

TRANSPORTATION COMMISSION OF WYOMING

INVITATION TO BID

Sealed proposals will be received by the Wyoming Department of Transportation for the following project by mail or delivered to the Contracts and Estimates Office, room 124, 5300 Bishop Blvd., Cheyenne, Wyoming, 82009-3340 - Phone - (307)777-4487, or delivered on the morning of the letting at the Wyoming Department of Transportation, 5300 Bishop Blvd in Cheyenne, Wyoming 82009-3340 Phone (307) 777-4487.

Federal Project: IM-1801174
Evanston - Green River (Chain Up Areas)

Description:

Grading, draining, placing crushed base and bituminous pavement surfacing, concrete pavement, wetland construction, scale house, weigh scales, electrical and miscellaneous work on 2.23 miles on I-80 between Evanston and Green River and at Ft Bridger Interchange.

Bid Letting Date and Time:

Sealed bids will be received until 09:30 A.M., February 9, 2012. Bid proposals will be publicly opened and read at the Wyoming Department of Transportation in Cheyenne after this time.

The Department of Transportation places the responsibility for timely delivery of bids with the bidder. Bidders may elect to have their bids delivered by any delivery service, or may hand carry their bids to the above street address. Any bids received at the letting after 09:30 A.M. on the above date will be returned to the bidders unopened.

Purchase Bidding Documents:

Plans and proposals, cross sections, computer earthwork listings, and soils profiles may be obtained from the Wyoming Department of Transportation, 5300 Bishop Blvd., Cheyenne, Wyoming, 82009-3340. Prices include the cost of printing and mailing. Telephone orders can be made to (307)777-4037. Affidavit of current work status must be submitted to obtain the bid proposal envelope. Proposals received in other than the official envelope will not be considered or read. Charges for bidding materials purchased are not subject to refund.

WYDOT Resident Engineer: Charles Bauer, P.E., Evanston (307) 789-3363

Contractors desiring to look over the project before bidding are requested to make an appointment with the Engineer 24 hours in advance.

Bidding Requirements:

It is mandatory that all bids be prepared electronically using WYDOT Electronic Bid System (EBS) and a hard copy of the bid be Submitted. An electronic bid bond is preferred, in the amount of 10 percent of the total bid. In lieu of the electronic bid bond, a cashier's check payable to the Transportation Commission of Wyoming in the amount of 10 percent of the bid is acceptable. The Wyoming Department of Transportation reserves the right to reject any and all bids.

Bid Consideration: Bids will be considered by the Transportation Commission of Wyoming, February 16, 2012

Project Completion Date: June 30, 2013

WYOMING DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISIONS
FOR
CONSTRUCTION REQUIREMENTS

Project No. I801174
Evanston – Green River
Chain Up Areas
Uinta County

REFERENCE: The 2010 Edition of the Wyoming Department of Transportation's *Standard Specifications for Road and Bridge Construction*.

High water table exists throughout the project limits and in the Fraughton Pit #2, plan work operations accordingly. No additional payment will be made for any disruption in scheduling or production associated with areas flooded by seasonal irrigation water. Measures including possibly dewatering will be taken to utilize the full depth of the gravel deposit to the pit floor.

Ensure that the road remains open, without delays and no restrictions to traffic flow from:

2:00 P.M., Friday May 25, 2012 to 9:00 A.M., Tuesday May 29, 2012 (Memorial Day)
2:00 P.M., Tuesday July 3, 2012 to 9:00 A.M., Thursday July 5, 2012 (4th of July)
2:00 P.M., Friday July 20, 2012 to 9:00 A.M., Wednesday July 25, 2012 (Pioneer Day)
2:00 P.M., Friday August 31, 2012 to 9:00 A.M., Tuesday September 4, 2012 (Labor Day)
2:00 P.M., Friday May 24, 2013 to 9:00 A.M., Tuesday May 28, 2013 (Memorial Day)

Liquidated damages, in the amount of \$500 per hour, will be assessed for each and every hour that the roadway is not open, without delays and no restrictions to traffic flow during the dates prescribed above.

Liquidated damages specified herein will be assessed simultaneously, and will be in addition to the liquidated damages assessed for failure to complete all contract work by the contract completion date.

Furnish and maintain temporary traffic control, including all traffic control devices, flagging, supervisor, and sequential chevrons, due to the failure to complete the work as specified herein at no additional cost to the department.

Embankment of the east bound chain up area will be completed to dirt grade 90 calendar days prior to the placement of borrow special excavation and prior to any work on the EBL tower drilled shafts or until settlement stabilizes as approved by the engineer. Settlement of 2 to 3 inches is expected after placement of the embankment in this area. Construction of the embankment in this area should occur as soon as practical to allow for the stabilization process to begin. Settlement may result in the need for additional borrow special excavation material to be placed. Additional borrow special excavation material will be measured and paid for at the contract unit price.

11-29-11

WYOMING DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
WATER WELLS

Project No. I801174
Evanston – Green River
Chain Up Areas
Uinta County

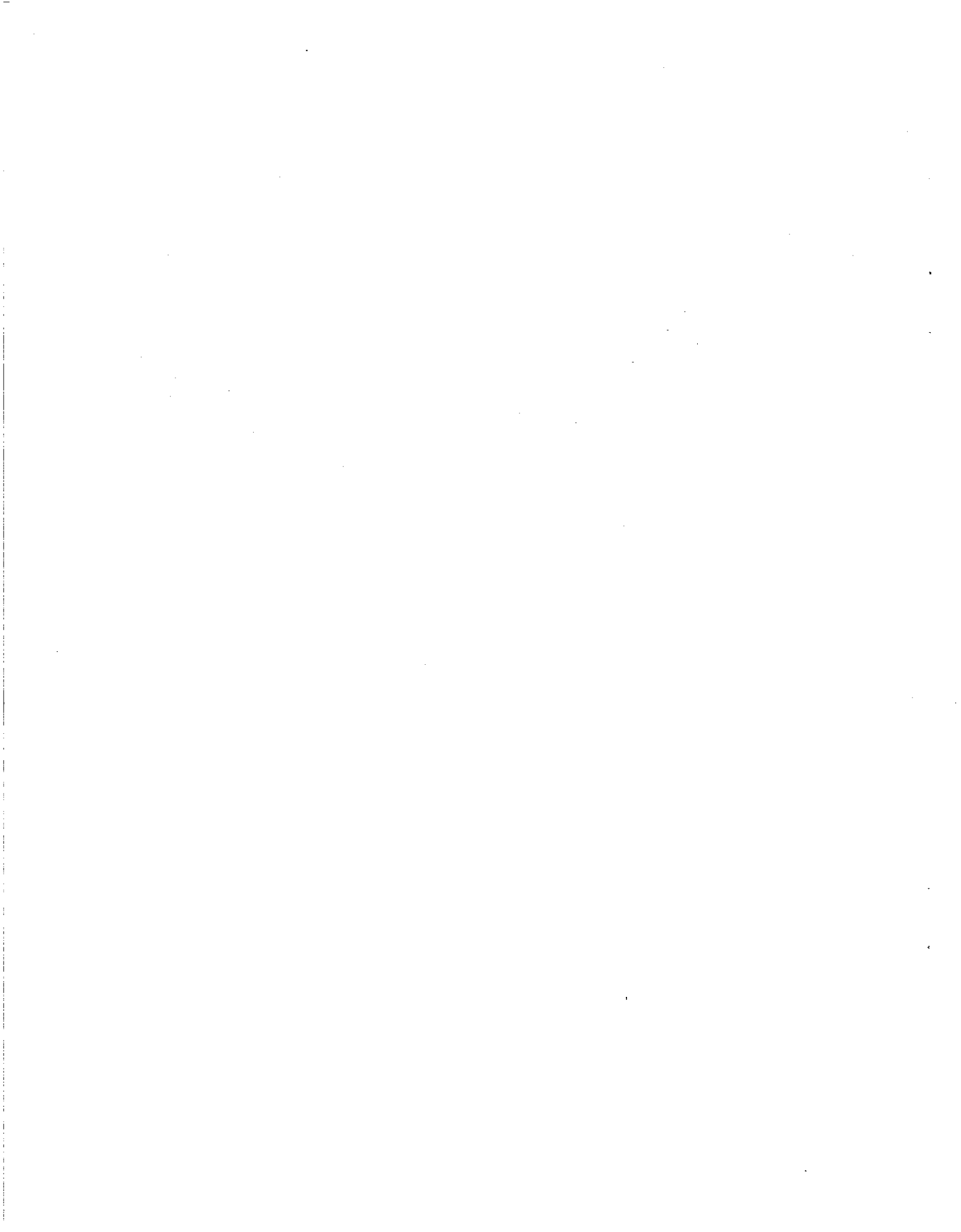
REFERENCE: The 2010 edition of the Wyoming Department of Transportation's *Standard Specifications for Road and Bridge Construction*.

The designated primary water source is the Divide #3 Well, located at NE¼ SE¼, Sec. 14, T15N, R119W. The well depth is 220 feet.

Pumping operations and pumping rates for the well are as follows:

1. Maximum pump depth is 200 feet.
2. Install a 1 inch diameter casing the full-depth after the pump has been installed for monitoring drawdown during pumping operations.
3. Do not exceed a 50 gal/min pump rate.
4. Install a flow meter on the well for accurately monitoring the pumping rate.
5. Monitor the drawdown for the well during pumping operations utilizing the 1-inch-diameter tubing and do not exceed the estimated critical depth of 180 feet below the ground surface or 20 feet above the pump if set at less than the maximum depth.
6. If the drawdown reaches the estimated critical depth in the well, as specified in paragraph 5 above, discontinue pumping in the well until directed to resume pumping. The critical drawdown depths are only estimates and may change based on the ongoing monitoring beginning when pumping starts.
7. Record and submit all drawdown and pumping rate data for daily review.

Reduce the maximum pumping rate specified in paragraph 3 above, or suspend any or all pumping operations indefinitely as directed by written notification.



WYOMING DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
WETLAND CONSTRUCTION

Project No. 1801174
Evanston – Green River
Chain-up Areas
Uinta County

REFERENCE: The 2010 Edition of the Wyoming Department of Transportation's *Standard Specifications for Road and Bridge Construction*.

DESCRIPTION: This special provision describes the requirements of rehabilitating the existing adjacent wetland complex.

MATERIALS: As shown in the contract.

CONSTRUCTION: As directed by the Wetland Specialist, excavate or place fill, establish slopes and contours, place 4 inches of topsoil and place Wetland Seed Mixture as shown in the contract. Provide a minimum of two weeks notice prior to beginning work at the wetland site to ensure availability of the Wetland Specialist.

Broadcast the Wetland Seed Mixture after placement of topsoil at the rate specified in the contract. After broadcasting, use a chain drag or flatten spike harrow to lightly cover the seed. The dragging operation may be deleted by the engineer under saturated soil conditions. Proposed wetland areas are to receive mulch, as indicated in the contract, unless deleted by the engineer due to saturation. Contact growers within one month after the award date to reserve the required seedstock, thereby ensuring availability by the planting date.

Take precautions to avoid disturbing existing wetland and riparian areas along the project corridor other than as directed by the Wetland Specialist. Perform work according to Subsection 111.5 Surface Waters and Wetlands.

MEASUREMENT and PAYMENT: The engineer will measure Wetland Construction as a lump sum item, completed in place.

The department will pay as follows:

Pay Item	Pay Unit	Measure to the Nearest	Pay to the Nearest
Wetland Construction	LS	LS	LS

12-06-11

WYOMING TRANSPORTATION DEPARTMENT

SPECIAL PROVISION
FOR
SCALE HOUSE

Project No. I801174
Bridger Weigh Scale
Evanston-Green River Chain Up Areas
Uinta County

REFERENCE: The 2010 Edition of the Wyoming Department of Transportation's *Standard Specifications for Road and Bridge Construction*, and the International Building Codes, current additions, as adopted by the State of Wyoming.

DESCRIPTION: This work consists of building a new scale house on a new concrete foundation/floor slab at the weigh station pullout and building appurtenances required to complete the installation of the new weigh scale in accordance with the contract and Specifications. The work will include all incidentals necessary to complete the work and allow for the safe and successful operation of all systems.

Permits, Fees, and Inspections: Obtain all permits and licenses and pay all fees required for the lawful completion of all work; and cooperate with all State and local officials desiring to inspect the work. The department will submit, apply, and pay for the Plan Review from the State of Wyoming Department of Fire Prevention and Electrical Safety. Do not work on the scale house until the building plans are approved by the State of Wyoming Department of Fire Prevention and Electrical Safety.

Any certificates of approval issued for this work will be submitted to the engineer and will become property of the department.

Layout of Work: The engineer will establish the location and a reference elevation point for the scale house. Lay out all work from this point and be responsible for all lines, grades, elevations and measurements necessary to complete the work under this contract.

Guarantees and Warranties: Submit Manufacturer's written guarantees or warranties for materials and equipment to the engineer before final acceptance of the work. Bidder shall also warrant all work to be free from defective material and workmanship for a period of 12 months after final acceptance of the scale building work.

Scale House: The new building is an 8 ft x 8 ft outside dimension, wood framed type

construction, fiberglass batt insulation, roof shingles, pre-finished steel siding, pre-finished aluminum fascia/soffits/rain drainage and trim, pre-finished windows, pre-finished security window shutters, hollow metal door/frame, gypsum board, work counter, painting, electrical and related work.

The minimum soil bearing requirements will be 44.0 Kips/sq.ft. minimum as shown in the project geotechnical report. All foundation bearing shall be on the Sandy Claystone materials or new Structural Backfill. Excavate for foundations and below floor and sidewalk slabs to a minimum of 6" below the top of the Sandy Claystone for footing bearing, or if below the bottom of the new footing, provide new Structural Backfill of maximum $\frac{3}{4}$ " free draining crushed aggregate compacted to 98% standard proctor density. In addition, all backfill above the excavation line within the building foundation lines below the floor slab, and below the exterior concrete walks shall be new Structural Backfill.

Foundation, Floor and Door Landing/Sidewalk: Concrete for the scale house foundation floor and landing/sidewalks will be from an approved Contractor furnished source and will meet the requirements for Class B Concrete for foundations, and Class B Concrete for floor and walks as specified in Section 513 – STRUCTURAL CONCRETE. Liquid membrane for the slabs will be Horn Clear Seal, Protex Triple Seal, Sonneborn Kure-N-Seal, or approved equal. Curing compounds must be compatible with concrete floor sealer indicated in the contract for the final interior floor finish.

Do not place concrete until the excavation work, forms, steel reinforcing bars, woven wire, pipes, electrical conduit, sleeve openings and other work required to be built into the concrete have been inspected and approved by the engineer.

Steel reinforcement will be placed in accordance with the applicable Subsections of Section 514 – REINFORCING STEEL.

The concrete floor slab will be placed on 4 inch thick base of $\frac{3}{4}$ inch crushed free draining aggregate (no fines), compacted to the lines, grades and depths shown in the contract. The base material will be as approved by the engineer, and will be compacted and moistened just prior to concrete placement.

The concrete floor slab will be a true plane surface with no deviation in excess of $\frac{1}{8}$ inch when tested with a 10 foot straight edge. The surface will be finished with a hard steel trowel finish, and 2 coats of clear sealer finish applied over the curing compound. The concrete walks to be finished with a wooden float.

Do not purchase, install or construct any of the aforementioned items until the concrete mix design and material certifications have been approved by the engineer.

Insulation: Insulate exposed walls of the scale house with 3½ inch thick kraft-faced fiberglass insulation and the ceiling will have a minimum of 6 inches of kraft-faced fiberglass insulation. Do not use loose fill or blown-in insulation. Other insulations and sealants are to be provided as shown in the contract.

Window security shutters: Provide pre-finished aluminum locking exterior security shutters as manufactured by Storm Shutters, an AGI Group Company, AGI Group, Inc., 8151 Blaikie Court, Sarasota, FL 34240, Phone 800-823-6677. Shutters shall be custom made as follows: Board and Batten appearance constructed with all extruded aluminum components, similar to Legends Aluminum Shutters, pre-finished by manufacturer with manufacturer's standard powder coat finish, white. Hardware shall include manufacturer's standard offset hinges, anchors, clips, fasteners, etc. as required to provide a complete security shutter system. Hardware to be manufacturer's standard aluminum, stainless steel or galvanized steel, unfinished or powder coated to match the shutter finish. Hardware to include a custom locking bar and anchor clips as required to allow for locking the closed shutters with a solid vertical bar centered on the shutter joint and padlocked at the bottom clip, finished to match shutters. Padlock to be furnished by Owner. All hardware shall accommodate secure anchorage onto the 1x6 perimeter window trim with solid wood backing within wall system. Installing contractor to provide solid wood backing for all anchors and anchor clip locations, whether or not shown on the drawings, and shall coordinate the final size requirements for the security shutter based on the final window installation. Contractor to provide 1 set of security shutters for each window location on the drawings, plus provide an additional 2 sets of shutters and all hardware for delivery to the Owner, but coordinate final size for the additional sets with Owner prior to ordering materials.

Steel Bollards: The corners of the scale house to be protected by four 6 inch diameter x 6 foot long schedule 40 steel pipe bollards, concrete filled, embedment depth of 36 inches set in 12 inch diameter of concrete, one at each corner located as directed.

Electrical Power: Plans indicate location of new power drop source north of the scale house within the existing Right-of-Way. Run a new buried power service from this source to the scale house. This includes all materials and equipment to have a usable service point and to provide power to the scale and scale house.

Electrical Work: This work will consist of furnishing and installing electrical equipment, electrical devices, conduits, fixtures, and associated wiring inside the scale house, those mounted on the exterior of the building, and site electrical related to the new building electrical service and utilities.

This work does not include installation of the weigh scale. The work does not include any electrical work that consist of furnishing and installing electrical devices, fixtures, conduits, equipment and associated wiring inside the weigh scale pit and between the

pit and the scale house foundation, the remote indicators and between the indicators and the scale house foundation, and related electrical work required for the weigh scale.

The exact locations and mounting heights for equipment will be determined on the job site. All wiring and the installation of devices and equipment will be in accordance with the applicable rules and regulations of the National Electrical Code. Refer to General Electrical Project Notes for more information.

Clean up the construction area in accordance with Subsection 113.4.3, Final Cleaning Up.

Upon completion of the work, furnish the engineer with bound manuals. Organize maintenance and operation manual information into binders properly identified. Include copies of warranties, product data for all items including, but not limited to siding, roofing, windows, doors, hardware, mechanical, electrical, etc. and similar applicable information. Bind each manual of each set in a heavy-duty, 3-ring vinyl covered binder and include pocket folders for folded sheet information. Mark identification on both front and spine of each binder. Three separate sets of manuals are required. Do not combine these with binders required in the Weigh Scales special provision.

MEASUREMENT and PAYMENT: The engineer will measure the Scale House for payment as a complete unit, which will include the foundation work, floor slab and modifications required to the building for installation of the weigh scale equipment, steel bollards, concrete landing and walks, and all other incidentals necessary to provide a complete, operable unit.

The department will pay as follows:

Pay Item	Pay Unit	Measure to the Nearest	Pay to the Nearest
Scale House	EA	EA	EA

Weigh scale measuring equipment, related electrical equipment, conduits, components, wiring and other materials required to complete the installation of the new weigh scale will be considered incidental to the "Weigh Scales" bid item in accordance with SP-600QZ, Weigh Scales, and in accordance with the manufacturer's specifications.

10-17-11

WYOMING TRANSPORTATION DEPARTMENT

SPECIAL PROVISION
FOR
WEIGH SCALES

Project No. I801174
Bridger Weigh Scale
Evanston-Green River Chain Up Areas
Uinta County

REFERENCE: The 2010 Edition of the Wyoming Department of Transportation's *Standard Specifications for Road and Bridge Construction*.

DESCRIPTION: This work consists of furnishing materials, labor and equipment for the installation of a single 14 ft x 16 ft platform electro-mechanical 60 ton capacity axle load truck scale, complete with scale pit, pit drain, access manhole with ladder and 14 ft X 60 ft approach slabs.

Manufacturer Assistance: A representative of the scale manufacturer is to be present at the preconstruction conference to provide technical assistance concerning the installation, certification, proper care, operation and maintenance of the scale unit. In addition, review the scale pit details and dimensions with the manufacturer prior to commencement of any construction. Provide two copies of the manufacturer's specifications for the scale unit, installation instructions and general information on the scale and its operation.

Materials and Installation: The installation of the concrete deck platform truck scale consists of the following minimum specifications:

Furnish and install the truck scale/weighing system so the scale platform and the 14 ft x 60 ft approach slabs are level. Provide weighbridge, platforms and foundations of sufficient strength and durability to withstand heavy commercial motor vehicles.

Provide a truck scale/weighing system with a clear and unobstructed weighing surface of not less than 14 feet wide by 16 feet long with a 7 inch thick concrete deck, and will incorporate, but not be limited to, welded steel pipe levers, steel weighbridge with steel deck channels, steel reinforcement rods, an integral stainless steel load cell with digital weigh indicator and printer.

The single section platform will have a weighing capacity of 60 tons and a Concentrated Load Capacity (CLC) of 40 tons.

Load cells will be constructed of stainless steel and be environmentally sealed.

The scale weighbridge, instrumentation, platform channels and reinforcing rods, along with pit coping, foundation bolts, nuts and bumper plates will be furnished by the scale manufacturer. Paint all steel parts with cycloaliphatic amine epoxy paint or other approved coating.

The lever system will be a welded steel pipe system, constructed of heavy steel tubing, steel plates and structural steel shapers which are smooth, uniform and free of any imperfections. Each primary scale lever will have a minimum loading capacity of 40 tons per section.

The design, workmanship and factory adjustment of levers will be such that the proper ratio of levers is maintained and all levers are interchangeable with each other. Each lever will bear factory seat marks, showing the permanent location of the nose iron of the correct factory seat position.

Fulcrum stands for the levers will be fabricated of mild steel. The base plates for the fulcrum stands will distribute the main lever loading over the pier in such a manner that the bearing pressure on the base of the stand does not exceed 300 psi. The lever and backbone stands will be fabricated so the machined bearing way will automatically level under load to eliminate human error. The stand will have no less than two anchor bolt holes. At least 1 inch thickness of grout will be provided for the scale pit height to allow for final adjustments in elevation of the stand piers.

The grout will be placed and compacted under the lever stands so that the complete bearing area of each lever stand is transmitted over the entire surface of the grout. Each lever stand will contain at least three leveling screws which allow the vertical elevation of the scale platform and deck to be brought to the elevation of the top of the pit.

The nose iron which contacts the lever weldment will be accurately fitted in or on the lever weldment, fastened firmly, and kept in position by means of bolts or set screws which will cause it to be forced against the lever in the same direction that it would be forced by load.

All main lever loading and fulcrum pivots will be designed so that longitudinal platform movement will not cause wear on the main lever pivots and bearings, and will be placed at a 90° angle with the scale platform length, so the impact of platform movement will not allow bearing surfaces to slide on pivot edges.

The main suspension system will consist of a steel load bearing block with self aligning steel bearing which rests upon the main lever knife edge. Two parallel links with heat

treated, hardened insets will be suspended from the bearing blocks to support the cross bar which receives the girder chair legs and supports the main girders of the weighbridge.

All suspension parts will be heat treated at points of contact for wear resistance. All duplicate parts of the main suspension system will be interchangeable. All girder chairs will be steel and will be designed and furnished with the necessary struts and supports to resist impacts created by vehicle loading, and so that movement of the scale platform does not affect the alignment of the main lever.

Pivots and bearing will be machined from bearing steel AISI E52100, cold finished, spheroidized, annealed, austenitized, oil quenched and tempered to not less than 60-62 Rockwell "C". The length of knife edge pivots in the primary lever or main levers will not be less than 8 inches in length.

All pivots will be installed in machined pivot ways to prevent movement and will be interchangeable. All bearings will be mounted in machine ways so as to obtain equal and continuous contact of knife edges with their bearings for full length contact.

Bearings will be of the same materials as the pivots and will be at least as hard as their respective pivots and will be interchangeable throughout the primary lever system. The pivots and bearings will be ground to exacting the knife edges and V's. The side forming the knife edge of each pivot will make an angle of 90° with the bearing side, and the knife edge will be the exact center of the pivot section.

All connections between the primary levers and transverse levers will be vertically adjustable and equipped with a mechanism for aligning the bearing blocks in relationship to their respective pivots.

Each lever section will be equipped with a hardened steel antifricition device which will limit the relative lengthwise displacement of all knife edges with respect to their bearings.

Design the scale piers to withstand a 100% over load of the scale design.

Weighbridge Specifications: The weighbridge(s) will be of fabricated steel, and will include main girders that are 24 in x 84# wide flange, with cross members that are 10" channel by 15.3#. The deck channels are to be 7 in channel by 9.8#. The rock strips are to be 1 inch square and have a 5/8-inch gap between it and the scale pit wall. A clearance of 1 3/4-inches (+/- 1/8-inch) must be provided between the outriggers on the weighbridge and the pit wall. One, 30" x 30" access hole and manhole cover is to be provided in the deck. This should be reinforced 5/8-inch thick steel lid with steel

channel frame and embed plates. Ensure no items protrude above the scale deck. A minimum of two anchor bolts are required on each side.

All deck ends are to have a minimum of 9 concrete anchors, securing the deck channel to the deck. Place anchors a maximum of 6 in from the deck side or end and place the remaining anchors a maximum of 18 in apart.

All anchor bolts, check plates, and curb angles are to be supplied with the scale.

Paint the weighbridge with a cycloaliphatic amine epoxy paint or other approved coating.

Indicator and Printer: The indicator and printer will be designed for enforcement use, axle weighing.

The indicator will be capable of performing calibration and zero adjustments. The zero and print functions will be inhibited while the weigh display is changing and/or the motion indicator is activated. The indicator's display will be legible from 5 feet.

The indicator will be NTEP approved and meet or exceed the specifications set forth by the National Institute of Standards and Technology (NIST) Handbook 44, current edition for Class III and III L devices. The manufacturer will provide a Certificate of Conformance to these standards.

The printer will be capable of printing on demand and use a Star Micronics SP700 cassette ribbon.

The printed weigh ticket will have the capability of indicating the following information:

- a. Header label name of agency using equipment
- b. Date and time, printer will print the time on each print transaction
- c. Axle, printer will assign a number to each axle/axle group weighed (1, 2, 3, 4 etc.)
- d. Total, printer will print the total accumulated weight for each transaction

Place two remote indicators 100 feet from the scale at locations as directed by the Engineer. These remote indicators will be legible from 100 feet. Mount each of the two indicators on top of 3" inch diameter x 9 foot long schedule 40 steel pipe with 1/8" thick baseplate sized and configured to mount to the bottom of the indicator, pipe shall have embedment depth of 36 inches set in 12 inch diameter of concrete. Paint pipe support with industrial grade, alkyd enamel paint, 2 coats over primer coat for full coverage, Pittsburgh or Sherwin Williams paint, or equal.

Each of the two indicators to be protected by two 6 inch diameter x 6 foot long schedule 40 steel pipe bollards, concrete filled, embedment depth of 36 inches set in 12 inch diameter of concrete. Paint bollards with industrial grade, alkyd enamel paint, 2 coats over primer coat for full coverage, Pittsburgh or Sherwin Williams paint, or equal.

Scale Pit: The foundation (and scale platform conc. deck) will meet all local requirements and the minimum specifications as stated in this Specifications listing and details shown in the contract. The design and details will be produced and sealed by a Professional Engineer registered in the State of Wyoming. Submit plans and details to the State Bridge Engineer for review 30 calendar days prior to construction of the scale foundation.

The minimum soil bearing requirements will be .44.0 Kips/sq.ft. minimum as shown in the project geotechnical report. All foundation bearing shall be on the Sandy Claystone materials or new Structural Backfill. Excavate for foundations to a minimum of 6" below the top of the Sandy Claystone for footing bearing, or if below the bottom of the new footing, provide new Structural Backfill of maximum ¾" free draining crushed aggregate compacted to 98% standard proctor density.

The concrete for the foundation, floor and walls of the scale pit (and the conc. platform deck) will be from an approved commercial source and will meet the requirements for Class A Concrete as specified in Section 513 – STRUCTURAL CONCRETE.

Provide reinforcing steel meeting the requirements of Section 514 - REINFORCING STEEL. Use coated reinforcing steel in the scale decks.

The floor of the scale pit will be sloped to drain to the center and then to the sump pump.

Provide and install an industrial grade sump pump with an automatic float switch and connect to a sump outlet pipe. Sump pump must be a pedestal style with a totally enclosed fan cooled (TEFC) motor with a stainless steel shaft and screen. Pump motor must be single phase 115VAC with a minimum of ½ hp and be capable of a minimum flow of 50gpm at 10 ft of head. The outlet pipe will 4 in minimum diameter continuous heavy wall PVC with a screen or otherwise protected at the outlet to keep rodents out of the pipe.

The foundation will extend the full width of the scale platform and will provide a minimum of 1 inch of clearance to the weighbridge.

The foundation will be designed to accept two approaches one at each end of the scale.

Heating and Electrical Requirements: A single 5kW forced air heater will be installed in the scale pit area, mounted on the wall below the scale deck, to insure proper operation of the scale during the winter months.

Provide a light within the pit, mounted to the underneath side of the scale platform to allow inspection of the pit whenever necessary. The light switch will be accessible from the access hole. Also provide one, 110-volt receptacle within the pit area for maintenance use.

All conduits within the pit will be PVC, and all fixtures will be suitable for use in wet locations.

Install a 2 inch diameter PVC conduit from the scale pit to the weigh scale office to be located as directed by the engineer to allow for the instrumentation wiring between the weigh scale load cell and the digital indicator. Install a separate 3/4 inch conduit for heating, lighting and outlets from the scale pit to the building. Install an additional 2 inch diameter PVC conduit for future use.

The electrical work will consist of providing and installing electrical related items as shown in the contract, the manufacturer's recommendations and this Special Provision. Electrical work will also include all electrical work between the scale pit and the scale house foundation, and between the remote indicators and the scale house foundation. Ensure that all electrical equipment and workmanship is provided in a manner consistent with N.E.C. and all other applicable codes. Refer to Electrical Drawings and General Electric Project Notes.

General Requirements: Submit three copies of the shop drawings for the reinforcing steel, bolts, etc. to the engineer for approval at least 30 calendar days before fabrication. The drawings will show locations, size, etc. with a bill of reinforcement and a bending diagram for all reinforcing steel. Make all required corrections and revisions to the shop drawings and resubmit those items for approval.

Permits, Fees, and Inspections: Obtain all permits and licenses and pay all fees required for the lawful completion of all work; and cooperate with all State and local officials desiring to inspect the work. The department will submit, apply, and pay for the Plan Review from the State of Wyoming Department of Fire Prevention and Electrical Safety. Do not work on the weigh scales until the building plans are approved by the State of Wyoming Department of Fire Prevention and Electrical Safety.

Authorized inspectors for building construction will be notified and given sufficient time to inspect any part of the work that has been completed. Any certifications of approval issued for building construction will be submitted to the engineer and will become the property of the department.

Layout of Work: The engineer will establish the location and a reference elevation point for the weigh scales. Lay out all work from this point and be responsible for all lines, grades, elevations and measurements necessary to complete the work under this contract.

Notify utility owners when construction work begins in the vicinity of any utility lines, and arrange for a representative of the utility company to be present when the operations are in close proximity to any existing or relocated utility lines.

Excavate the scale pit to the dimensions shown in the contract.

Do not place any concrete until the excavation, forms, steel reinforcing bars, woven wire, pipes, conduit, floor drain and any other items required to be built into the concrete have been inspected in place and approved by the engineer. All reinforcing bars or woven wire will be encased in concrete. All splices will be lapped a minimum of 40 bar diameters and will be staggered. The concrete for the footings will be thoroughly vibrated during placement and thoroughly worked around reinforcement bars and into the corners of the footing forms in accordance with Subsection 513.4.11 – PLACING CONCRETE.

Place the concrete floor slab of the scale pit on a bed of granular material approved by the engineer. Moisten and tamp granular material just prior to pouring the concrete. Conduits for electrical and instrumentation wiring will be installed through the pit wall and to the scale house in accordance with the manufacturer's recommendations.

The concrete approach slabs will be constructed on both sides of the scale pit as shown in the contract. Approach slabs will be 14 feet x 60 feet. Place approach slabs after construction of the scale pit.

The concrete approach slabs on the ends of the new scale will be placed level to the scale platform transversely and matching the slope of the asphalt longitudinally. Transverse joints will be Type D and placed at 12 foot intervals. The joints in the concrete pavement and between the scale platform and approach slabs will be sealed with hot poured elastic joint seal. The concrete pavement approach slabs will meet the requirements for Class A concrete. Six inches of base course material meeting Grading W will be placed under the slabs.

Place Hot Plant Mix to tie concrete approach slabs, scale platform, and scale house to the surrounding plant mix. Provide positive drainage away from the scale.

When the scale pit footing foundations, piers, etc. have attained the ultimate design compressive strength (f'c) and after the approach slabs have been placed, install the

scale mechanism. Installation of the scale, platform, load cell, digital indicator and all associated hardware will be in accordance with the manufacturer's recommendations.

The scale offered must be the same as a previously installed model that has been in operation for over five years as a highway enforcement scale or have a current Certificate of Conformance issued by the National Institute of Standards and Technology (NIST). Documentation on the previously installed model or a copy of the certificate must be included in the bid package.

Descriptive literature is required to establish details of the scale product offered complete with foundation drawings. Clearly identify in the bid documents the brand/model to be furnished and installed. Provide three copies of descriptive literature and foundation drawings.

The design and manufacture of the scale weighbridge load cell, digital instruments and associated accessories will be of one manufacturer so as to maximize compatibility and availability of components and design.

Bidder will warrant all equipment to be free from defective material and workmanship for a period of 12 months after acceptance of scale. The load cells will be warranted for an additional four years on parts replacement. All other work shall be warranted for a period of 12 months after final acceptance by the engineer.

The technician installing the scales must have more than five years experience in the installation of enforcement truck scales. Provide documentation with bid offer detailing the technician's years in business of installing enforcement truck scales and a list of platform scales installed during the previous five years.

When possible, all materials or equipment located in the scale pit are to be made of materials that are not susceptible to corrosion.

Upon completion of the scale pit construction and weigh scale installation, arrange for the scale to be tested and certified by contacting the Weights and Measurements Division of the State of Wyoming at (307) 777-6586. A "Placing-in-Service" certificate will be submitted to the engineer upon completion and certification of the scale.

Upon completion of the work, furnish the engineer with bound manuals. Organize maintenance and operation manual information into suitable sets of manageable size, and bind into individual binders properly identified and indexed (thumb tabbed). Include emergency instructions, spare part listings, copies of warranties, wiring diagrams, inspection procedures, shop and as constructed drawings, product data and similar applicable information. Bind each manual of each set in a heavy-duty, 3-ring vinyl covered binder and include pocket folders for folded sheet information. Mark

identification on both front and spine of each binder. Three separate sets of manuals are required.

MEASUREMENT and PAYMENT: The engineer will measure Weigh Scales for payment as a complete unit, in place and operable including concrete approach slabs and associated hot plant mix which includes but is not limited to all electrical, wiring, instrumentation, excavation, forming foundation work, concrete, backfilling, drain pipes, manholes and covers, bollards, and other items associated with the weigh scale to make it fully operational, including all electrical work between the scale pit and the foundation of the scale house.

The department will pay as follows:

Pay Item	Pay Unit	Measure to the Nearest	Pay to the Nearest
Weigh Scales	LS	LS	LS

10-17-11

