

## **SCALE REPLACEMENT AT DUNN ERWIN LANDFILL**

### **INFORMATION FOR BIDDERS**

#### **1. Bids Received**

Sealed Bids for the turnkey construction of one truck scale will be received at the Harnett County Administration Building, 420 McKinney Parkway, until **10:00 A.M. local time, on Monday, February 18, 2019**. Bids will be opened at that time and date. Bidders shall mark the outside envelope of their bid "Bid for Scale".

The project generally consists of supplying and installing a new current model year of manufacturer truck scale installed and complete including excavation, site work, engineering, all appurtenances and an operating system for a turn-key operation suitable for a replacement scale at the Dunn-Erwin Landfill, 449 Daniels Road, Dunn, NC. All required electrical work, controls, data management system, calibration, as-built drawings and record documents, and training are to be included.

Substantial completion date is July 1, 2019.

Harnett County reserves the right to waive any informalities or defects in any bid.

#### **2. Addenda and Interpretations**

Questions regarding the project should be addressed to Renea Warren-Ford at **[purchasing.support@harnett.org](mailto:purchasing.support@harnett.org)**

#### **3. Familiarity of the Work**

Each Bidder shall fully inform himself prior to bidding as to existing conditions and limitations under which the work is to be performed, and shall include in his bid a sum to cover the cost of items necessary to perform the work as set forth on the Bid Form. No allowance will be made to a Bidder because of lack of such examination or knowledge. The submission of a bid will be considered as conclusive evidence that the Bidder has made such examination.

Harnett County assumes no responsibility whatsoever with respect to ascertaining for the Bidder such facts concerning physical characteristics at

the site of the project. The successful Bidder agrees that he shall make no claim for and has no right to additional payment or extension of time for completion of the work, or any other concessions, because of any interpretations or misunderstanding on his part of the contract, or because of any failure on his part to fully acquaint himself with all conditions relating to the work.

**4. Estimate of Work**

The work shall be performed as a single lump sum price for replacement of the existing scales.

**5. Disqualification of Bidders**

More than one Bid from an individual, firm, partnership, corporation, or an association under the same or different names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one Bid for the work contemplated will cause the rejection of all Bids in which such Bidder is interested. Any or all Bids in which such Bidder is interested will be rejected if there is reason for believing that collusion exists among the Bidders; and all participants in such collusion will not be considered in future Bids for the same work. Bids in which the prices are obviously unbalanced may be rejected. No contract will be awarded except to competent Bidders capable of performing the class of work contemplated.

**6. Preparation of Proposals**

The Bid must be made upon the form contained herein. The blank spaces in the Bid must be filled in correctly where indicated. The Bidder shall sign his Bid correctly. If the Bid is made by an individual, his name and post office address must be shown. If made by a firm, partnership, or corporation, the Proposal must be signed by an official of the firm, partnership, or corporation authorized to sign contracts, and must show the post office address of the firm, partnership, or corporation.

Each bid must be submitted in a sealed envelope bearing on the outside the name of the Bidder, the Bidder's address, and name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed to:

**Attn: Renea Warren-Ford  
Finance & Accounting Specialist II  
Harnett County  
P.O. Box 760  
Lillington, NC 27546**

**7. Irregular Bids**

The Advisory Board reserves the right to reject any proposals if they show any omission, alteration of form, additions not called for, conditional bids, or irregularities of any kind.

**8. Withdrawal of Bids**

If a Bidder wishes to withdraw his Proposal, he may do so before the time fixed for the opening of bids by communicating his purpose in writing and signed by the Bidder to Renea Warren-Ford. Upon such notice, the Proposal will be made available unopened to the Bidder.

**9. Insurance**

Each Bid must be accompanied by insurance certificate(s) executed by an insurance company(s) satisfactory to Harnett County as an additional insured party. The certificates must show the following minimum coverages:

- a. Workers' Compensation Insurance: With respect to all operations the Bidder performs and all those performed for it by subcontractors, the Bidder shall carry workers' compensation insurance in accordance with the requirements and the laws of the State.
- b. Contractor's Public Liability and Property Damage Insurance: With respect to the project operations, the Bidder performs and also those performed for it by subcontractors, the Bidder shall carry regular Contractor's Public Liability Insurance. The insurance shall provide coverage for each accident or occurrence in the amount of \$2,000,000.00 of all damages resulting from (1) bodily injury to or death of persons and/or (2) injury to or destruction of property. Subject to that limit per accident or occurrence, the policy shall provide at total or aggregate coverage of \$3,000,000.00 for all damages during the policy period.
- c. Automobile Liability Insurance: The operation of all motor vehicles, including those hired or borrowed, used in connection with the project, shall be covered by Automobile Liability Insurance. The Insurance shall provide coverage for accident or occurrence in the amount of \$1,000,000.00 per occurrence for all damages resulting from (1) bodily injury to or death of persons and/or (2) injury to or destruction of property.

- d. Termination or change of Insurance: Each insurance policy shall be endorsed to provide that the insurance company shall notify the Harnett County by certified mail at least thirty (30) days in advance of termination, or any change in the policy. No such change shall be made without prior written approval of the appropriate Harnett County official.
- e. Claims: Each insurance policy shall state that the insurance company shall agree to investigate and defend Harnett County against all damages, even if groundless.
- f. Compensation: There shall be no direct compensation allowed to the Bidder on account of any premium or other charge necessary to take out and keep in effect all insurance or bonds, but the cost thereof shall be considered included in the general cost of the work.

#### **10. Hold Harmless & Indemnification**

Harnett County does not waive their right to subrogation. The successful Bidder and all subcontractors and suppliers shall at all times indemnify and hold harmless Harnett County, the Harnett County, its Board of Commissioners, officers, agents, and/or employees against any and all claims, demands, damages, losses, judgments, costs, workers' compensation payments, litigation expenses and counsel fees arising out of injuries to the person (including death), damage to the property, or any damages resulting from breach of contract that alleged to have been sustained.

The existence of insurance shall in no way limit the scope of this indemnification.

The successful Bidder further undertakes to reimburse the Harnett County for damages to the property caused by the Bidder, or his employees, agents, subcontractors, or material men or by faulty, defective, or unsuitable material or equipment used by him or them.

#### **11. Sales Tax**

Certain materials and supplies incorporated in the work of this project are exempt from North Carolina sales tax. The Bidder shall familiarize himself with current regulations of the State Tax Department. The tax on materials or supplies exempted by such regulations shall not be included as

part of the bid. Upon request, Harnett County will furnish the successful Bidder a sales tax exemption letter.

**12. Compliance with Federal and State Regulations**

The Bidder shall be responsible for full compliance with any Federal and/or State laws, regulations and standards, as applicable to any project fully or partially funded by State and/or Federal funding agency

**13. Right to Reject**

Harnett County reserves the right to reject any or all Bids or to accept any Bid.

**14. Award of Contract**

Issuance of this Invitation to Bid does not guarantee a contract will be awarded to any Bidder. No agreements with any selected Bidder shall be binding until a contract is signed and executed by Harnett County and the successful Bidder. Harnett County reserves the right to enter into a contract with another Bidder in the event that the originally selected Bidder fails to execute a contract with the County or defaults on their contract.

**15. Equal Opportunity Employer**

Harnett County is an equal employment opportunity employer, is a federal contractor, and therefore the provisions and affirmative action obligations of 41 CFR § 60-1.4(a), 41 CFR 60-741.5(a), and 41 CFR 60-250.4 are incorporated herein by reference, where applicable.

## **TRUCK SCALE SPECIFICATION**

### **Low Profile Steel Deck Truck Scale**

The following set of specifications will describe a fully electronic, low profile, modular type steel deck truck scale system, designed to be optionally mounted on an above grade pier, floating slab or pit type foundation. Scale shall be a 3-module 4-section system that is suitable for easy movement from one location to another.

#### **General Provisions – Truck Scale**

The scale will be a fully electronic, low profile, steel deck design truck scale. The scale platform shall be 100 percent designed and manufactured in the United States of America. The scale platform, load cells, and digital indicators shall be 100 percent assembled in the USA. The scale shall be a Rice Lake Weighing Systems Model 7011-ST-100-OTR or equivalent that will meet the following minimum standards.

The scale shall have a full scale capacity of 135 Tons (270,000 lbs) with a displayed resolution of 200,000 lbs x 20 lbs in accordance with NIST, Class IIIIL devices.

- 1.1 Scale shall be a fully electronic design. The scale weighbridge will consist of factory welded modules having a total longitudinal span of 70' (69' 10.5") and platform width of 11' (10' 10.5"). No field assembly or welding will be allowed. Mechanical lever systems are not acceptable.
- 1.2 Each scale module shall be designed with a Concentrated Load Capacity (CLC) of will be as follows: anything below 16" will be a 45 ton CLC and anything above a 16" profile will be 50 ton CLC), as defined by NIST. When the CLC is applied at midspan on a module, according to NIST regulations, the maximum stress of the steel shall not exceed 26,000 PSI as determined by Finite Element Analysis (FEA) software. The deflection at this loading condition shall not cause the scale to exceed the allowable accuracy tolerance as specified by NIST in Handbook 44.
- 1.3 The scale provided will have an unobstructed weighing surface of 11' (10' 10.5") wide by 70' (69' 10.5") in length and a 16.5" minimum profile. A minimum clearance of 4" shall be provided between the concrete floor and the bottom of the weighbridge. Provide a minimum of 6 inches between the top of pier and the concrete floor by capping the approaches and getting an 18-3/4" or 20-1/2" profile.
- 1.4 The scale modules will be designed as such to eliminate use of grout plates requiring setting and leveling prior to arrival of the scale at job site. A maximum of 2 drilled anchors (3/4" x 7") will be provided for each load cell stand.

- 1.5 The scale system shall be a full electronic design, with internal self-checking weighbridge. Weighbridges using bumper bolts, externally fixed check rods, or embedded bumper plates in the end walls will not be permitted.
- 1.6 The scale shall have a maximum span deflection ratio of no less than 1:1100 under legal highway loading at mid span of module.
- 1.7 A 5/16" diamond checkered steel treadplate shall be supported with a minimum of (12) 12" wide flange, 14 lbs per foot, structural longitudinal beams, welded to top flange of beam and module end plate. Only structural wide flange beam construction shall be allowed. Weighbridge designs utilizing junior beams or bent plate shall not be permitted.
- 1.8 Scale weighbridge shall be designed to accommodate up to 250 trucks per day for a period of 25 years without weighbridge fatigue.
- 1.9 The entire bridge assembly shall be cleaned prior to the addition of any coatings or paint to the weighbridge modules. Harnett County reserves the right to inspect the steel surfaces prior to application of any coatings to the prepared steel surfaces. All steel surfaces shall be free of all welding gases, residue, oil, mill scale and rust.
- 1.10 All non-visible steel shall be evenly spray coated with an asphalt emulsified coating.
- 1.11 All steel elements shall be steel shot blasted to SSPC-A-SP6 standards.
- 1.12 All visible steel surfaces will receive a 3-5 mill application of a high solids urethane primer and a high solids acrylic urethane top coat to a finish of 2-3 mill thickness.
- 1.13 Module end plates shall be a minimum 3/4" thick, and shall be reinforced on each side with longitudinal I-beams. Load cell pockets shall be constructed of 3/4" steel plate and shall be tied to the end plates using tabs and laser cutouts. Scale modules using flat welded or bolted end boxes shall not be allowed.
- 1.14 The scale will be NTEP Certified and shall meet the requirements set forth by the NIST Handbook 44 for Class III-L devices. The bidder shall submit a current copy of Certificate of Conformance (COC) with bid.
- 1.15 Access covers to the load cells shall be from the top of the scale and shall be boltless in design. Cover plates will be reinforced to adequately handle axle traffic over the covers and will be kept in place with 1/2" diameter x 1" long steel dowels. Cover plates utilizing bolts of any type shall not be permitted.
- 1.16 A 1/2" diameter steel rock guard shall be welded to the end modules.
- 1.17 The truck scale shall be provided with a fabricated cleanout area measuring 12" x 84" with removable end plates at each end of the scale system.(Optional)

- 1.18 Manhole frame and cover (24" square) shall be provided for access to the pit area beneath the scale. (Optional for pit installations)
- 1.19 Scale shall be equipped with optional gusseted bolt-on safety guiderails on each side of the scale with a minimum of 4" diameter pipe. A minimum of 3 bolts will be used at each gusset to attach side rail. Guiderails welded to weighbridge shall not be permitted. (Optional) 1.23 The scale provided shall be a Rice Lake Weighing Systems SURVIVOR® Series Model 7011-ST-100-OTR or equivalent.
- 2.0 Load Cells and Junction Boxes Load cells are rigidly mounted utilizing a single link suspension to provide equal and consistent and evenly distributed force to the load cell. Load cells are totally self-contained, and come complete with mounting stands, single-link suspension, and 60' of cable to junction box. Compression or rocker style load cells shall not be permitted.
- 2.1 Load Cells shall be rigidly mounted in fabricated steel stands parallel to traffic flow. Suspension system will be E4340 material forged single link suspension hardened to Rockwell "C" 40-45 to allow self-centering and free floating platform. Rocker column or compression type load cells requiring check rods, anti-rotation pins or bumper bolts will not be permitted.
- 2.2 Load cells will be of the analog type and have a minimum capacity of 75,000 lbs each with an overload safety factor of 150 percent. Scales utilizing a lower capacity load cell than 75,000 lbs will not be permitted.
- 2.3 Scales utilizing adjustable bumper bolts or embedded plates in the wall to minimize movement of the bridge shall not be allowed.
- 2.4 Systems utilizing proprietary, internal circuitry to convert analog to digital conversion of the load cell signal within the load cell shall not be permitted.
- 2.5 All access to load cells will be from the top of the scale through formed boltless steel access panels. Covers should be form fitted and should be accessible without use of tools.
- 2.6 Steel conduit will be provided within the weighbridge for load cell cable runs.
- 2.7 A flexible screw-type conduit fitting shall be provided at each load cell. Load cell cable shall be totally enclosed within permanent conduit provided within the weighbridge. Load cells using connectors of any type will not be permitted.
- 2.8 Load cells shall be of 4340 alloy steel nickel plated and shall be scientifically sealed with a minimum IP67 rating.

- 2.9 Load cells shall be non-proprietary in design, including both mechanical operation and electronic transmission of data. Manufacturers using proprietary load cell technology available from a single source will not be permitted.
- 2.10 Replacement load cells shall be available from a multitude of vendors nationally, and shall not be single sourced or of a proprietary design.
- 2.11 Fiberglass Reinforced Polyester (FRP) junction box with formed contoured edges and gasketed top access. Junction box shall have a Gore™ single directional membrane vent. Steel junction boxes shall not be permitted.
- 2.12 Load cell stands will be flush mounted to concrete piers and anchored using wedge locks or similar bolts. A maximum of (2) 3/4" x 7" anchor bolts will be required per stand and will be included in the cost of the scale. Grout plates or embedded items in the foundation concrete will not be allowed.
- 2.13 A 1" braided copper transient bypass cable shall be provided at each load cell from the weighbridge to the base stand.
- 2.14 UPS Duplex Voltage regulating transformer, or equivalent.
- 2.15 UJB-3T6 DC Transient circuitry protection or equivalent.
- 2.16 Load cells shall be warranted a full five years against failure of all types including lightning or surge voltage
- 2.17 A single-point grounding system will be provided. Systems utilizing a multiple point ground will not be permitted.
- 3.0 The existing indicator shall be used.

### ***INSTALLATION***

Installation shall be provided by a scale company with 15 years of local field experience in the State of North Carolina. Five references shall be provided of municipal jobs performed within the state along with the bid submittal that have been installed within the last five years.

The new scale shall be raised six (6) inches from the existing height to provide more clearance between the bottom of the scale and the concrete foundation. This will make it easier to keep clean and increase the life of the scale. Bidder shall provide detailed concrete placement plan with the bid detailing how the scale will be raised, the approaches will be capped and the ramps will be modified to meet the new height

of the approaches. The distance from the bottom of the scale to the top of the concrete shall be 6-inch minimum.

Hoisting service for off loading and setting the scale shall be provided by Harnett County.

**HARNETT COUNTY  
DUNN –ERWIN SCALE  
BID FORM**

Proposal of \_\_\_\_\_\* (hereinafter called “Bidder”), organized and existing under the laws of the State of \_\_\_\_\_, doing business as \_\_\_\_\_ to Harnett County

***\*Insert “a corporation,” “a partnership,” or “an individual” as applicable.***

In compliance with your Invitation to Bid, Bidder hereby proposes to perform all work, furnish all labor, materials, equipment, supplies and anything else necessary in order to construct the complete project in full accordance with the Contract Documents, within the time set forth hereinafter and at the prices stated below. Prices are to cover all expenses incurred in performing the work that is required by the Contract Documents of which this Bid is a part.

The Bidder shall and will do any and all work and furnish any and all materials not herein provided for which, in the opinion of the Owner, may be found necessary or advisable for the proper completion of the work or the purposes thereof, or any modifications or alternations thereto.

All extra work and materials shall be ordered in writing by Harnett County, and in no case will any work or materials in excess of the amount shown in the Plans be paid for unless so ordered. Additionally if the extra work requires additional cost, a change order must be issued prior to work commencing. No claim for delay shall be made as a result of this process. No voucher, claim or charge against Harnett County shall be paid, nor is Harnett County liable for any voucher, claim or charge unless a change order is issued. The Bidder further agrees that he shall accept, as full compensation for such extra work and materials, the unit price bid, in the case of Items covered by unit prices in the Proposal, and no more; and for such Items as are not covered by a unit price, he shall accept as full compensation:

1. an agreed-on lump sum price, or
2. the reasonable cost, as determined by Harnett County, of all necessary labor, including insurance and payroll, taxes, equipment rental, and materials, plus fifteen percent (15%) which covers supervision, the use of tools and plant, and other overhead expenses and profit.

The Bidder agrees to prosecute such extra work with all reasonable diligence and to employ thereon competent workers. The Bidder shall give Harnett County access to all accounts, bills, payrolls, and vouchers relating to extra work not covered by unit prices, and he agrees that he shall have no claim for compensation for such extra work in the case of items not covered by unit prices, unless a statement in writing of the actual cost of the same, fully itemized as to labor

and materials, is presented to Harnett County before the fifteenth (15th) day of the month following that during which each specific order was complied with.

By submission of this Bid, each Bidder certifies that this Bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid with any competitor.

In compliance with and subject to the Invitation to Bid and the documents therein specified, all of which are incorporated herein by reference, the undersigned proposes to furnish all labor, equipment, and materials and to perform all work for the Scale Project, in accordance the Plans and Specifications, and the Addenda noted below, for the consideration of the following amount:

LUMP SUM PRICE

Lump Sum price for all work complete as described in the Bid Package and associated with the Scale Project for the sum of:

\$ \_\_\_\_\_

ADDITIVE BID ITEM

Additive price for hydrostatic load cells and totalizer in lieu of electronic load cells:

\$ \_\_\_\_\_

Manufactuerer: \_\_\_\_\_

ADDENDA

List Addenda:

\_\_\_\_\_

The acceptance of this Bid rests with Harnett County whose decision shall be final.

By:

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**(Signature and Date)**

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**(Print Name and Title)**

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**(Print Official Bidder Company Name/Address w/phone and fax number)**

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