

**NOTICE TO BIDDERS**  
**LOW PROFILE STEEL DECK TRUCK SCALE**

Notice is hereby given that the Board of County Commissioners of Santa Rosa County, Florida, will receive sealed bids for one **low profile steel deck truck scale**.

All bids must be original and delivered by hand, Fed EX, or mail to the Santa Rosa County Procurement Department at 6495 Caroline Street Suite G, Milton, Florida 32570; and must be received by 10:00 a.m. local time, on May 16, 2011, at which time bids will be publicly opened and read aloud. Bids are to be sealed and clearly labeled "**BID – SCALE**". Bids received after the time set for the bid opening will be rejected and returned unopened to the bidder. All interested parties are invited to attend.

Questions concerning this equipment should be directed to Ron Hixson at (850) 981-7143.

Specifications and bid form may be secured from Santa Rosa County Website ([www.santarosa.fl.gov/bids](http://www.santarosa.fl.gov/bids)) or at the Santa Rosa County Procurement Department at the above address. Telephone (850) 983-1870

The Board of County Commissioners reserves the right to waive irregularities in bids, to reject any or all bids with or without cause, and to award the bid that it determines to be in the best interest of Santa Rosa County.

Santa Rosa County does not discriminate on the basis of race, color, national origin, sex, religion, age, or handicapped status in employment or provision of service.

By order of the Board of County Commissioners of Santa Rosa County, Florida.

**LEGAL NOTICE**

One issue – April 16, 2011 - Press Gazette, April 21, 2011 - Navarre Press, and April 21, 2011 – Gulf Breeze News

Bill and proof to Santa Rosa County Procurement Department, 6495 Caroline Street, Suite G, Milton, Florida, 32570, Attn.: Orrin L. Smith.

April 16, 2011

**MEMORANDUM**

TO: Company Addressed

FROM: Santa Rosa County Procurement Department

SUBJECT: Low profile steel deck truck scale

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## MINIMUM SPECIFICATIONS

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.

### 1.0 Requested Options

#### Option 1

Vendor will supply a low profile steel deck scale meeting the minimum specifications that is a direct replacement to the existing scale. Vendor will certify the provided equipment is:

- A direct replacement for the existing scale and can be installed without significant modification to the existing piers, foundations and/or approaches or exit ramps.
- Compatible with existing hardware and software and will provide accurate measurement and recording of vehicle weight without the requirement for new or upgraded equipment, software or components.
  - Significant modifications include any requirements to cut, grind, or chip existing concrete piers and/or foundations as to lower their height or configuration, or any requirement to expand or construct new concrete piers or foundations, including any modifications to existing approach or exit ramps.
  - Significant modification **DOES NOT** include any repair or replacement (removal) of existing load cells, load cell stands, bolts or other attachment hardware or any actions required to physically remove existing load cells and load cell stands including, but not limited to, cutting, grinding, welding or drilling of existing concrete piers and/or foundations that does not substantially alter the height or physical dimensions of the piers or foundations.
- Owner will self-perform installation or contract for removal and installation of existing scale deck, repair and/or removal of load cells, load cell stands and associated equipment including calibration and scale certification.

#### Option 2

Vendor will supply a low profile steel deck scale meeting the minimum specifications that is a direct replacement to the existing scale and shall include in the base price:

- Disconnection and removal of existing wiring to scale house.
- Removal of existing scale deck.
- Removal of existing load cell, stands, bolts or other attachments as needed.
- Preparation of piers or foundations for installation on new load cell stands.
- Installation of new load cells and load cell stands, including all bolts or other attachments as needed and associated wiring.
- Installation of new steel deck scale.
- Prepare, connect, and calibrate new load cells to existing instrumentation.
- Certify and provide Florida State Scale Certification.

Please Check One:

Yes No

- 1.1 Vendor certifies and warrants that all equipment supplied is fully compatible with the existing instrumentation and software.
- 1.2 Vendor certifies and warrants that all equipment supplied is a direct physical replacement for the existing equipment without significant modifications to the existing piers or foundations.
- 1.3 Vendor certifies the supplied low profile steel deck scale meets all requirements for certification in Florida.

## 2.0 Minimum Specifications

The scale will be a fully electronic, low profile, steel deck design truck scale. The scale platforms, load cells, and digital indicators will be 100 percent designed, manufactured and assembled by one manufacturer located in the United States of America.

Please Check One:

Yes No

- 2.1 The scale shall have a full scale capacity of 135 Tons (27,000 lbs) with a displayed resolution of 200,000 lbs x 20 lbs in accordance with NIST, Class IIIIL devices.
- 2.2 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.
- 2.3 Each scale module shall be designed with a minimum Concentrated Load Capacity (CLC) of 45 Tons (90,000 lbs), 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.
- 2.4 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.
- 2.5 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 sites.
- 2.6 The scale system shall be a full electronic design, with internal self-checking weighbridge. Weighbridges sing bumper bolts, externally fixed check rods, or embedded bumper plates in the end walls will not be permitted.
- 2.7 The scale shall have a maximum span deflection ratio of no less than 1:1100 under legal highway loading at mid span of module.
- 2.8 Minimum weighbridge thickness will be 12". Scale shall be an open bottom design. Weighbridges that utilize a sealed bottom plate for structural strength shall not be permitted.

Yes No

- 2.9 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.
- 2.10 Scale weighbridge shall be designed to accommodate up to 250 trucks per day for a period of 25 years without weighbridge fatigue.
- 2.11 The entire bridge assembly shall be cleaned prior to the addition of any coatings or paint to the weighbridge modules.
- 2.12 All non-visible steel shall be evenly spray coated with an asphalt emulsified coating.
- 2.13 All steel elements shall be steel shot blasted to SSPC-A-SP6 standards.
- 2.14 All visible steel surfaces will receive a 3-5 mill application of a high performance epoxy primer and a specialized hard-coat of alkyd enamel to a finish of 2-3 mill thickness.
- 2.15 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.
- 2.16 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.
- 2.17 Structural steel elements will have a combined minimum weight of 30,800 lbs.
- 2.18 Access covers to the load cells shall be from the top of the scale and shall be bootless 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.
- 2.19 A 1/2" diameter steel rock guard shall be welded to the end modules.

Yes No

- 2.20 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)
- 2.22 Scale shall be equipped with gusseted bolt-on safety guide rails 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. Guide rails welded to weighbridge shall not be permitted.

### 3.0 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.

- 3.1 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.
- 3.2 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 will not be permitted.
- 3.3 Scales utilizing adjustable bumper bolts or embedded plates in the walls to minimize movement of the bridge shall not be allowed.
- 3.4 Systems utilizing proprietary, internal circuitry to convert analog to digital conversion of the load cell signal within the load cell shall not be permitted.
- 3.5 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.
- 3.6 Steel conduit will be provided within the weighbridge for load cell cable runs.
- 3.7 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.

Yes No

- 3.8 Load cells shall be of 4340 alloy steel nickel plated and shall be scientifically sealed with a minimum IP67 rating.
- 3.9 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.
- 3.10 Replacement load cells shall be available from a multitude of vendors nationally, and shall not be single sourced or of a proprietary design.
- 3.11 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.
- 3.12 Load cell stands will be flush mounted to concrete piers and anchored using wedge locks or similar bolts. A maximum of (2) ¾" 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.
- 3.13 A 1" braided copper transient bypass cable shall be provided at each load cell from the weighbridge to the base stand.
- 3.14 UPS Sola 2000 Duplex Voltage regulating transformer, or equivalent.
- 3.15 UJB-3T6 DC Transient circuitry protection or equivalent.
- 3.16 Load cells shall be warranted a full 2 years against failure of all types including lightning or surge voltage.
- 3.17 A single-point grounding system will be provided. Systems utilizing a multiple point ground will not be permitted.

**BID FORM  
STEEL DECK TRUCK SCALE**

Santa Rosa County Procurement Department  
6495 Caroline Street, Suite G  
Milton, Florida 32570

Date \_\_\_\_\_

Dear Sir:

The undersigned agrees to furnish the equipment as requested by you for Santa Rosa County in your invitation to bid and certifies that the equipment bid meets or exceeds the specifications called for, except as set out in "Exceptions to Bid Conditions" and attached to this form.

Make and Model of Equipment \_\_\_\_\_

Name & Address of Bidder \_\_\_\_\_

Parts & Service Location \_\_\_\_\_

Cash Bid Price FOB Milton:

**Steel Deck Truck Scale      Option 1      \$ \_\_\_\_\_**

**Option 2      \$ \_\_\_\_\_**

Delivery Date Must Be Specified \_\_\_\_\_

\_\_\_\_\_  
Company Representative Signature

\_\_\_\_\_  
Telephone

NOTE: Please return this bid form to the above address. NO OTHER BID FORM WILL BE ACCEPTED.

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SWORN STATEMENT UNDER SECTION 287.133 (3) (A),  
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to \_\_\_\_\_  
by \_\_\_\_\_  
(print individual's name and title)  
for \_\_\_\_\_  
(print name of entity submitting sworn statement)  
whose business address is \_\_\_\_\_ and (if applicable) its Federal  
Employer Identification Number (FEIN) is \_\_\_\_\_. If the entity has no FEIN,  
include the Social Security Number of the individual signing this Sworn Statement: \_\_\_\_\_.
2. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
4. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:  
1. A predecessor or successor of a person convicted of a public entity crime; or  
2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of public entity crime.
5. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with legal power to enter into a binding contract and which bids or appeals to bid on contracts for the provision of goods and services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.
6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Indicate which statement applies.)  
\_\_\_\_\_ Neither the entity submitting this sworn statement, nor one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.  
\_\_\_\_\_ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.  
\_\_\_\_\_ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officers determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (ATTACH A COPY OF THE FINAL ORDER.)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

\_\_\_\_\_(Signature)

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, 2\_\_\_\_\_.

Personally known \_\_\_\_\_

or Produced identification \_\_\_\_\_ Notary Public – State of \_\_\_\_\_

\_\_\_\_\_  
(Type of identification) My commission expires \_\_\_\_\_

\_\_\_\_\_  
(Printed, typed, or stamped commissioned name of notary public.)

# LOW PROFILE STEEL DECK TRUCK SCALE

## ADDENDUM 1

Respond to questions submitted on 4/19/2011.

What is existing make and model of the scale that will be replaced?

Fairbanks, Rodan Series, Model Number 12-8727C-10, 100-ton (200,000 lb) capacity, pre-stressed concrete deck.

\*\*\* This information is from an original invoice, the existing scale does not have a placard and as such this information cannot be verified. \*\*\*

What is the make and model of the existing weight indicator?

Display: IQ – Plus 710, Model 1Q+710-2A (Information from placard on instrument)

Software: PC Scale Tower Software Version #PC\_AR3.51

What is the height of the existing scale?

Height measured from top of pier to top of scale. At approach, 13 ¾", at piers 2 & 3, 13 3/8", and at the exit, 13 ¾". Again, the County does not warrant the measurement to be exact and all measurements required for fabrication of scale requires field verification by vendor.

What is the height of the existing end walls?

Height measured from top of the end wall to top of pier, approach, 13 ¾" and exit, 13 ¾". Again, the County does not warrant the measurement to be exact and all measurements required for fabrication of scale requires field verification by vendor.

Is there a drawing that we can refer to showing the existing foundation?

No, drawings for the original installation are not available.

What about any hidden conditions on the existing foundation that would require restoration or repair?

We have assumed that the existing load cell saddles or supports will need to be replaced and that will require some degree of repair or modification to the concrete pier, however the intent is to replace the existing scale without extensive modification to the support structure.