



TOWN OF WELLFLEET

300 MAIN STREET WELLFLEET MASSACHUSETTS 02667

Tel (508) 349-0300 Fax (508) 349-0305

www.wellfleetma.org

Request for Bids New 30' x 10' Truck Scale at the Wellfleet Transfer Station

Request for Bids

Sealed bids for the installation of a new above ground truck scale installation replacing the existing aged truck scale used at the Wellfleet Solid Waste Transfer Station will be accepted by the Town Administrator at 300 Main St., Wellfleet, MA 02667, **until 10:00am, Tuesday, October 14, 2014**. A copy of the bid specs may be obtained by contacting the Department of Public Works office (508) 349-0315, or by email: dpwadmin@wellfleet-ma.gov.

I. Project Description

The Wellfleet Solid Waste Transfer Station is located at 370 Coles Neck Road in Wellfleet, MA. The selected scale company shall provide a complete solution including help with the town removing the existing aged scale, site work including saw cutting and installation of one 3' x 11' x 4' deep center pier, crane service to off load and set the new scale in existing foundation with hookup to existing instrumentation.

II. Description of Work:

Contractor Responsibility

The truck scale shall be specifically designed for above ground use. The scale shall feature a fully electronic design, with a 1/4" steel tread plate deck arranged over seven (7) 12' and two (2) 10" I beams, and shall be designed for heavy duty applications. This scale shall *not* be constructed of any tubular, formed, or "hollow steel". The scale shall be designed in an orthotropic design (open I beam design) with structural steel I beams running parallel with vehicle traffic. The scale weighbridge, load cells, instrumentation, foundation bolts, nuts and bumper plates shall be furnished by the same manufacturer. Equipment is to consist of parts designed to act as a unit by a manufacturer experienced in design, construction, manufacture of electronic components, and operation of equipment for the purpose required.

General Specifications:

1. The truck scale shall measure 30'-2" x 10'.
Complies: Yes:___No:___ Exceptions:_____
2. The scale shall utilize no more than six (6) hermetically sealed, stainless steel canister style load cells
Complies: Yes:___No:___ Exceptions:_____
3. The scale shall have attached rub rails/gussets painted in safety yellow attached to the weighbridge.
Complies: Yes:___No:___ Exceptions:_____

4. The scale deck plate be a minimum of ¼” thick.
Complies: Yes: ___ No: ___ Exceptions: _____
5. Access plates shall be utilized in the scales construction over the load cell sections only. These access plates shall be 10’ in width.
Complies: Yes: ___ No: ___ Exceptions: _____
6. The scale weighbridge shall be of modular configuration utilizing ¼” steel tread plate over structural steel members. The total structure is designed to support a 90, 000lb dual tandem axle with axles on four-foot centers and offset to one side of the module. The gross capacity of the scale shall be 90 tons.
Complies: Yes: ___ No: ___ Exceptions: _____
7. The maximum deflection for legal highway loads shall not exceed 1/1600th of span and the bending stress in any member shall not exceed 20,000 psi. The deck shall be designed for 120 psi maximum tire pressure.
Complies: Yes: ___ No: ___ Exceptions: _____
8. All welding on the weighbridge is to be performed by certified welders using either the gas-to-metal submerged or shielded arc process. All welding procedures shall be in compliance with the American Welding Society D 1.1-94 Structural Welding Code.
Complies: Yes: ___ No: ___ Exceptions: _____
9. Weighbridge construction shall be an open ribbed orthotropic (ASTM A-36 structural steel) design providing a structure with an open bottom to eliminate enclosed “pockets” which can accumulate moisture and corrode from the inside out. Steel deck plate shall be ASTM A-36 checkered plate.
Complies: Yes: ___ No: ___ Exceptions: _____
10. Both internal and external steel surfaces shall be carefully cleaned to commercial sandblast (SP6) specifications and protected with two (2) coats of specified paint (see attached paint specifications).
Complies: Yes: ___ No: ___ Exceptions: _____
11. The deck surface is to be designed and constructed using 3/8” thick, 36,000 psi diamond-tread steel plate, over USA made structural steel I-beams – understructure components consisting of formed U’s or bent plates shall not be used. The deck plate is to be welded to the flange supported from the inside of the scale structure.
Complies: Yes: ___ No: ___ Exceptions: _____
12. The total height of the scale structure will not exceed 21 inches from the top of the slab to top of scale deck surface. Vertical adjustment shall be provided through shimming of the load cell and base plate.
Complies: Yes: ___ No: ___ Exceptions: _____
13. The scale shall have a 75 ton capacity and calibrated at 20 pound divisions per the state of Massachusetts Weights and Measures.
Complies: Yes: ___ No: ___ Exceptions: _____
14. The scale is to be completely self-checking. No check rods shall be used. The scale shall not use the load cell or load cell stand as a checking device.
Complies: Yes: ___ No: ___ Exceptions: _____

Weighing Elements:

1. The weighing elements shall be stainless steel, hermetically sealed rocker column load cells that are rated at NEMA 6P, IP68 or equal.
Complies: Yes: ___ No: ___ Exceptions: _____
2. The load shall be applied to the rocker style load cell through means of a load cell cup that is an integral part of the weighbridge.
Complies: Yes: ___ No: ___ Exceptions: _____
3. All load cells, junction boxes and the scale checking system shall be accessible from the side of the scale. Cover plates that must be removed to access load cell, checking parts and junction boxes shall not be required and shall not be allowed.
Complies: Yes: ___ No: ___ Exceptions: _____
4. Each load cell's capacity shall be at least 100,000 lbs and each cell shall have a stainless steel braided covering on the load cell cable for protection.
5. Load cell cables shall be no longer than 15' in length.
Complies: Yes: ___ No: ___ Exceptions: _____
6. All load cells gauging areas must be protected by electrochemically polished 316 stainless steel covers, and capable of withstanding a MIL SPEC salt spray tests.
Complies: Yes: ___ No: ___ Exceptions: _____
7. The cell design shall permit individual load cells to be electronically matched and the scale sections to be electronically calibrated.
Complies: Yes: ___ No: ___ Exceptions: _____
8. The load cell shall be electronically calibrated in an mV/V/ohm fashion.
Complies: Yes: ___ No: ___ Exceptions: _____
9. Load cell output shall be a DC analog signal – load cells with a digital output shall not be acceptable.
Complies: Yes: ___ No: ___ Exceptions: _____
10. The hermetically sealed cavity of the load shall be purged of air and then charged with dry nitrogen gas.
Complies: Yes: ___ No: ___ Exceptions: _____
11. Load cells shall be hermetically sealed in both the cable entry and the gauging area.
Complies: Yes: ___ No: ___ Exceptions: _____
12. Load cell cables shall be hard wired in both the load cell and the sectional controller. Quick disconnect load cell cables are unacceptable.
Complies: Yes: ___ No: ___ Exceptions: _____
13. The scales shall be equipped with load cells that will incorporate "Intalogix Technology", providing optical isolation of each individual load cell, and the ability to communicate with the existing weigh indicator.
Complies: Yes: ___ No: ___ Exceptions: _____
14. The scale shall have self diagnostic capabilities able to identify load cell problems, failure, and predict the failure of a cell before it actually happens to prevent down time. The diagnostics are to measure load cell counts (not weigh) and will also be used to determine reliability of the load cells.
Complies: Yes: ___ No: ___ Exceptions: _____

15. Should a load cell fail, the instrumentation shall identify the specific load cell that has failed. A generic "load cell bad" message without identifying a specific cell is unacceptable.

Complies: Yes: ___ No: ___ Exceptions: _____

16. All trouble shooting shall be done from within the scale house.

Complies: Yes: ___ No: ___ Exceptions: _____

17. All electronic hardware in the scale platform shall be housed in stainless steel NEMA 4X junction boxes.

Complies: Yes: ___ No: ___ Exceptions: _____

18. The printed circuit boards which convert the load cell analog signal to a digital signal are to be encapsulated using a compound whose base material is a dysfunctional bisphenol A/Epichlorohydrin "Epoxy" resin. The base shall be cross-linked with an "Amine" hardener blend. This system is specified because it has very good electrical insulating properties, and is designed to protect active components on these "smart controller" boards from the effects of moisture, thus increasing scale system reliability.

Complies: Yes: ___ No: ___ Exceptions: _____

Warranty:

The provided truck scale shall have a five (5) year load cell warranty. The load cells shall be warranted from lightning damage or any electrical surges.

Complies: Yes: ___ No: ___ Exceptions: _____

Maintenance:

The winning bidder shall provide a maintenance program including yearly calibrations with heavy capacity test unit, adjustments, and paper work for legal for trade operation in the Commonwealth of Massachusetts for a period of five (5) years as a lump sum dollar amount with the bid offering.

Complies: Yes: ___ No: ___ Exceptions: _____

Foundation Construction:

1. The scale supplier will be responsible for preparing the existing foundation to accept the newly provided steel deck truck scale.

This includes one new 3' x 11' x 4' deep center pier with required saw cutting, excavation, forming, pouring 3500 psi concrete, and stripping. Work will also include preparation of the existing piers with filling in any voids for acceptance of new base plates.

Complies: Yes: ___ No: ___ Exceptions: _____

2. The new scale shall utilize the existing conduit.

Complies: Yes: ___ No: ___ Exceptions: _____

3. All concrete work should be performed in accordance with the best practice as prescribed by the American Concrete Institute (ACI). All concrete is to be a minimum of 3500 psi @ 28 days.

Complies: Yes: ___ No: ___ Exceptions: _____

4. Reinforcing bars are to equal ASTM A615, grade 40 or 60.
Complies: Yes: ___ No: ___ Exceptions: _____
5. Bent bars should conform to required details on drawings.
Complies: Yes: ___ No: ___ Exceptions: _____
6. Remove scaled, loose flaky rust, dirt and other coating that would impair bonding.
Complies: Yes: ___ No: ___ Exceptions: _____
7. Space bars properly and securely tie in position before placing concrete. Tack welding to keep reinforcing in place is not permitted.
Complies: Yes: ___ No: ___ Exceptions: _____
8. All scales require a ground rod to the specified depth.
Complies: Yes: ___ No: ___ Exceptions: _____
9. All anchor bolts must be located in strict accordance with the plan.
Complies: Yes: ___ No: ___ Exceptions: _____
10. Excavation, foundation forms, rebar and concrete are to be furnished by the contractor.
Complies: Yes: ___ No: ___ Exceptions: _____
11. The foundation as shown is the minimum required to accommodate the scale N.B.S. H-44 requirements. Local Weights and Measures jurisdiction may specify additional installation requirements. In order to ensure compliance, consult local governing Weights and Measures prior to installation.
Complies: Yes: ___ No: ___ Exceptions: _____

Installing Weighbridge:

1. Installation shall be preformed or supervised by an authorized Factory direct technician.
2. A mobile crane will be needed to set modules into place. A cherry picker, loader, excavator, or crane attached to a truck's trailer is *not* acceptable regarding the mindset of *safety*.
3. Lifting chains or cables with hooks to safety attach to the module's lifting channels on the side of the module. The chains must be of equal length from the lifting point to permit the module to remain level while handling.
4. Lift and place the next modules as described in the technical manual.
5. Bolt modules together.
6. The weighbridge shall then be leveled using a transit over each load cell.
Adjustments are achieved through shimming.
7. Drill and anchor load cell base plates into place.
8. Adjust bumper bolts as described in technical manual.
9. Pull load cell cables and wire up to sectional controller junction boxes.

Site Visits

Vendors may visit the Wellfleet Transfer Station at 370 Coles Neck Road, Wellfleet to see the location of the truck scale during regular business hours. Contact Paul Lindberg, Asst. Public Works Director at 508-349-0315 to arrange for a guided site visit.

III. Project Requirements

A. Timing of Work: Upon receipt of a “Notice to Proceed” the contractor will complete the concrete work as rapidly as practical but shall start work within fifteen (15) calendar days, unless otherwise agreed upon. The contractor shall complete all work defined within the scope of services no later than **January 16, 2015**.

B. Prevailing Wages

Minimum wage rates as determined by the Commissioner of Department of Workforce Development under the provisions of MGL 149, Sections 26 to 27D as amended apply to this project. A copy of the prevailing wage rates for this project is available electronically by request.

C. Insurance

Vendor shall provide proof of liability insurance with the following minimum limits –

- a) General Liability with limit of \$1,000,000.00
- b) Automobile Liability with limits of \$250,000.00 per person and \$500,000.00 per occurrence
- c) Workers Compensation with limit of \$500,000.00

D. Bid Bond – Bids must be accompanied by a certified or bank check or bid bond. The amount of the bid deposit shall be an amount of five (5%) of the Bidder’s maximum total bid price, payable to the Town of Wellfleet, Massachusetts. The bid security will be retained until the successful bidder has executed the contract with the Town, whereupon it will be returned. If the bidder fails to execute the contract and provide the information within ten (10) working days of the Notice of Award, the Town may annul the award and the bid security will be forfeited.

E. Warranty

The contractor shall warranty the work for one calendar year beginning on the date of town acceptance of substantial completion.

V. Bidding Information Submittal Requirements

Bid Notice

Sealed bids for the New 30’ x 10’ Truck Scale at the Wellfleet Transfer Station for the Town of Wellfleet, MA will be received by the Town Administrator at 300 Main St., Wellfleet, MA 02667 **until 10 AM, Tuesday, October 14, 2014**. A copy of the bid specs may be obtained by contacting the Department of Public Works office (508) 349-0315 or by email dpwadmin@wellfleet-ma.gov.

The Town of Wellfleet reserves the right to waive any informality, to reject any and or all bids, and to act at all times in the best interest of the Town.

Required Submittals with Bid

1. Completed bid form
2. Bid Bond – Bids must be accompanied by a certified or bank check or bid bond, subject to the conditions provided in the Instructions to Bidders. The amount of the bid deposit shall be an amount of five (5%) of the Bidder’s maximum total bid price, payable to the Town of Wellfleet, Massachusetts. The bid security will be retained until the successful bidder has executed the contract with the Town, whereupon it will be returned. If the bidder fails to execute the contract and provide the information within ten (10) working days of the Notice of Award, the Town may annul the award and the bid security will be forfeited.

3. References – please submit a list of references (names, addresses, telephone #) of three recent comparable projects completed within the past three years.
4. Statement of Tax Compliance – must be completed, signed and submitted with bid.
5. Statement of Non-Collusion – must be completed, signed and submitted with bid.
6. Acknowledgement of Principal – must be completed, signed and submitted with bid.
7. Vendor shall provide proof of liability insurance with the following minimum limits –
 - a) General Liability with limit of \$1,000,000.00
 - b) Automobile Liability with limits of \$250,000.00 per person and \$500,000.00 per occurrence
 - c) Workers Compensation with limit of \$500,000.00

Rule for Bid Award

The contract for this project will be awarded to the responsive and responsible vendor submitting the lowest total bid. In the event the selected vendor with the lowest bid fails to execute the contract and submit the payment bond within the time period the Town reserves the right to award the contract to the next lowest responsive and responsible bidder.

Contact Information

Mark Vincent

Telephone: 508-349-0315

Director of Public Works

E-mail: dpwadmin@wellfleet-ma.gov



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Wellfleet Solid Waste Transfer Station

New 30' x 10' Truck Scale

Bid Pricing Sheet

In accordance with the Scope of Services described in the bid specifications I bid the following price(s).

1. Overall price_____

Name of Authorized Person (print)

Date

Signature of Authorized Person

email address

Name of Company/Corporation/Partnership

Address (# Street or PO Box

telephone #

Town/State/Zip Code



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Statement of State Tax Compliance

Description of Bid/Proposal _____

Date of Bid _____

Pursuant to Chapter 323 of the Acts of 1983, Section 49A, I _____

_____ Authorized signatory for _____

_____, whose principal place of

business is _____ do

hereby certify under the pains of perjury that _____

has complied with all laws of the Commonwealth relating to taxes.

Name of Person Signing Bid/Proposal

SSN or FID #

Name of Business

Date

This form must be included with the bid/proposal.



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Certificate of Non-Collusion

Description of Bid/Proposal _____

Date of Bid _____

The undersigned certifies under penalties of perjury that the above bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity or group of individuals.

Name of Person Signing Bid/Proposal

Name of Business

This form must be included with the bid/proposal.



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Acknowledgement of Principal

I _____ principal of _____

Holding the office of _____ with said

Company is hereby authorized to submit a bid/proposal on behalf of said Company for

the following bid/proposal to the Town of Wellfleet: _____

Name of Authorizing Person

Position/Office

Name of Business

Date

Name of Company/Corporation/Partnership

Address (# Street or PO Box

telephone #

Town/State/Zip Code

email address

This form must be included with the bid/proposal.