

**TOWN OF TRUMBULL, CONNECTICUT - BOARD OF EDUCATION  
REPLACEMENT OF BALANCE TANK - POOL AT HILLCREST MIDDLE SCHOOL  
GENERAL INSTRUCTIONS  
BID NUMBER: 5924      DUE:    MARCH 27, 2012 @ 2:00PM**

The Town of Trumbull, Connecticut (hereinafter referred to as Town), through the Office of the Purchasing Agent, will accept sealed bids for the replacement of the balance tank for the pool at Hillcrest Middle School, 530 Daniels Farm Rd., Trumbull, CT, in accordance with the attached specifications and scope of work. The work shall be performed for the Trumbull Board of Education.

**1.      PREPARATION OF BIDS**

Bids shall be submitted by using the enclosed BID PROPOSAL FORM that accompanies this request. Submit one (1) ORIGINAL and one (1) EXACT COPY. Bidders should submit bids in a clear, concise and legible manner to permit proper evaluation of responsive bids.

Bidders must submit a list of all equipment to be used and specification sheets for the generator equipment to allow proper bid evaluation. Bidders may also submit, under separate cover with their proposal, any samples of reports and documents that are necessary to meet the requirements (deliverables) of this request should a purchase order be awarded

**2.      BID SUBMISSION**

a) Bids are to be submitted in DUPLICATE and sealed in an envelope clearly marked and addressed as follows:

**Bid #5924                      Due: March 24, 2012 @ 2:00PM**  
Purchasing Agent  
Town of Trumbull  
5866 Main Street  
Trumbull, CT 06611

b) Please be advised that the person signing the formal proposal must be authorized by your organization to contractually bind your firm with regard to prices and related contractual obligations for the delivery period requested.

c) No oral, telephonic, or faxed proposals will be considered. Corrections, deletions, or additions to the bids may be made by wire, provided such wires are received in correct and comprehensive form prior to the opening time of bids, and confirmed by letter. No telephone corrections, deletions, or additions will be accepted. The Town reserves the right to reject any or all bids, and to waive any or all formalities in connection therewith.

**3.      BID TIME**

a) Bids shall be received at the office of the Purchasing Agent, Town Hall, prior to the advertised hour of opening, at which time all proposals will be publicly opened and read aloud. Any bid received after the due date and time noted above shall not be accepted or opened.

b) A bidder may withdraw a proposal at any time prior to the above scheduled date and time. Any bid received after the above scheduled date and time shall not be considered or opened.

**4.      TOWN OPTIONS**

a) The Town reserves the right to reject any or all bids and to waive any requirements, irregularities, technical defects or service therein when it is deemed to be in the best interest of the Town.

b) If your proposal does not meet or better the required specifications on all points, which must be outlined in a letter, otherwise it will be presumed that a proposal is in accordance with the required specifications.

c) The Town of Trumbull-Board of Education reserves the exclusive right to determine whether or not a proposal meets or exceeds the stated specifications.

**5.      TAXES**

All purchases made by the Town, and associated with the award of this requirement shall be tax exempt. Any taxes must not be included in bid prices. A Town Tax Exemption Certificate shall be furnished upon request.

**6. INQUIRIES AND SITE VISITS**

- a) All inquiries regarding this request shall be answered up to 2:00pm MARCH 23, 2012 after which time no additional questions will be accepted. To ensure consistent interpretation of certain items, answers to questions the Town deems to be in the interest of all bidders will be made available in writing or by Fax as appropriate to all bidders. Inquiries of a technical nature may be directed to Stephen Kennedy (203-452-4306) Plant Operations, Trumbull Board of Education [KennedyS@trumbullps.org](mailto:KennedyS@trumbullps.org). All other questions may be directed to Robert J. Chimini, Purchasing Agent (203.452.5042) [rchimini@trumbull-ct.org](mailto:rchimini@trumbull-ct.org).
- b) Additionally, after proposals are received, the Town reserves the right to communicate with any or all of the bidders to clarify the provisions of Proposals. The Town further reserves the right to request additional information from any bidder at any time after proposals are opened.
- c) It is the sole responsibility of the responding firm to verify any addendums that may have been issued relating to this request prior to submission of a proposal. Failure to submit a bid or proposal that does not address any changes or addendums may result in a disqualification of a bid submission.

**7. AWARD AND AUTHORITY**

The Town Purchasing Agent will issue notification of award in writing.

**8. PRICING**

- a) Bidders are requested to quote as a complete "Turn Key" installation.
- b) All prices quoted are to be firm for a period of at least 180 days following bid opening.
- c) Special Consideration will be given to responses with extended firm price dates. The Town is always interested in any and all cost reduction opportunities.

**9. ASSIGNMENT OF RIGHTS, TITLES, AND INTERESTS**

Any assignment or subcontracting by a bidder, vendor, or contractor for work to be performed, or goods and/or services to be provided, in whole or in part, and any other interest in conjunction with a Town procurement shall not be permitted without the express written consent of the Town of Trumbull.

**10. HOLD HARMLESS CLAUSE**

Bidder agrees to indemnify, hold harmless and defend the Town from and against any and all liability for loss, damage or expense which the Town may suffer or for which the Town may be held liable by reason of injury, including death, to any person or damage to any property arising out of or in any manner connected with the operations to be performed under an agreement with the Town, whether or not due in whole or in part of any act, omission or negligence of the Town or any of his representatives or employees.

**11. WORK REGULATIONS AND STANDARDS AND PREVAILING WAGE REQUIREMENT**

All work activities performed in association with this request must be performed and completed for the Town in accordance with current Federal State and Local regulations. All services performed shall also conform to the latest OSHA standards and/or regulations. **As this requirement is part of an overall rehabilitation of the Hillcrest Pool facility, State of Connecticut Prevailing Wage Standards apply and are provided on the Town of Trumbull Website [www.trumbull-ct.gov](http://www.trumbull-ct.gov) (Purchasing Department – Bid Invitations).**

**12. INSURANCE**

The successful bidder shall provide the Town Purchasing Agent with a Certificate of Insurance before work commences. The Town shall be named as an additional insured with an Insurance Company licensed to write such insurance in Connecticut, against the following risks and in not less than the following amounts:

- Worker's Compensation
- Contractor's Public Liability and Property Damage
- Automobile Insurance

<b>General Liability</b>	<b>Each Person</b>	<b>Each Occurrence</b>	<b>Aggregate</b>
Bodily Injury Liability	\$1,000,000	\$1,000,000	\$5,000,000
Property Damage Liability		\$1,000,000	\$5,000,000
Personal Injury Liability		\$1,000,000	\$5,000,000
<b>Comprehensive Automobile Liability</b>			
Bodily Injury	\$1,000,000	\$1,000,000	\$5,000,000
Property Damage		\$1,000,000	\$5,000,000

Such policies shall provide that no coverage shall be changed or cancelled unless thirty- (30) days prior notice of such change or cancellation shall be made to the owner. Such notice shall be made by registered mail; postage prepaid, to the Purchasing Agent, Town of Trumbull, Town Hall, Trumbull, Connecticut 06611.

In the event of cancellation, the contractor shall cease all operations on or before the effective date of said cancellation and he shall not commence work again until he has obtained replacement insurance and has delivered a Certificate of Insurance to the office of the Owner's Purchasing Department.

13. **DELIVERY**

**TIME IS OF THE ESSENCE.** Special consideration may be given to bidders that provide an expedited delivery and installation schedule.

14. **BID, PERFORMANCE, AND MATERIALS BOND**

All bidders must furnish a Bid Bond in the amount of 10% of the total proposed bid price along with the bid proposal. A performance Bond and a labor and materials bond for the amount of ONE HUNDRED percent (100%) of the total proposed price shall be provided before a purchase order is awarded. The aforementioned bonds will remain in force until the final acceptance of performance and completion of all required specifications.

15. **CONFLICT OF INTEREST**

No purchase shall be made from nor shall services (other than services as an officer, agent, or employee of the Town) be secured from any officer or employee of the Town, or from any partnership or corporation in which such officer or employee is a partner or officer, or holds a substantial interest, unless such relationship and the fact that such purchase is contemplated shall be made known in writing to the agency making such purchase, and notice thereof posted, for at least five (5) days before such purchase be made, in the office of the agency making such purchase and in a public place in the Trumbull Town Hall.

16. **WARRANTY**

Selected bidder agrees to warranty all work completed for this requirement for a period of **at least** twelve (12) months.

17. **REFERENCES**

Bidders must provide three commercial references. References from school districts are preferred.

18. **SPECIFICATIONS**

- a) Each Bidder will be held responsible to have studied the Specifications, visit the site (if necessary) regarding the proposed work, satisfied itself regarding all existing conditions and measurements, and to have included in the proposal an amount sufficient to cover all work.
- b) Should any Bidder find discrepancies in the Specifications, or be in doubt as to the exact meaning, notify the Town at once. The Town may then, at their option, issue Addenda clarifying same. The Town shall not be responsible for oral instructions or misinterpretations of Specifications.
- c) The Town reserves the right to issue Addenda at any time prior to the Bid Opening. All such Addenda become, upon issuance part of the Specification. Each Bidder shall cover such Addenda in the proposal and shall acknowledge receipt of same on the blank provided therefore. It is the bidders' responsibility to access the Town's website or contact the Town for any addenda that may be issued in conjunction with this bid.
- d) The Town reserves the right to require any or all Bidders to submit statements as to previous experience in performing comparable work; and as to financial and technical organizations and resources available for this work. The mere opening and reading aloud of a bid shall not constitute or imply the Town's acceptance of the suitability of a Bidder or the bid, nor shall possession of Drawings or Specifications constitute an invitation to bid. The competency and responsibility of Bidders as well as the number of working days required for completion will be considered in making an award.

19. **ADENDUMS**

It is the responsibility of the bidder to verify prior to final submittal of a bid or bid if any addenda to this request have been issued. Any addenda to this request shall be posted on the Town of Trumbull website [www.trumbull-ct.gov](http://www.trumbull-ct.gov) under the Purchasing Department's section. Bidders may also call the Purchasing Department directly 203.452.5031 for inquiries regarding addenda.

20. **PRIOR INSPECTION AND EXISTING CONDITIONS**

It is the responsibility of the bidder to visit the site and verify all field conditions prior to submitting their bid. Site visits can be arranged by calling the Board of Education Plant Operations office at 203-452-4306.

**TOWN OF TRUMBULL, CONNECTICUT  
BOARD OF EDUCATION  
REPLACEMENT OF BALANCE TANK FOR  
POOL AT HILLCREST MIDDLE SCHOOL**

**SPECIFICATIONS**

**PART 1 - GENERAL**

**1.01 DESCRIPTION OF WORK**

Provide all required equipment along with all necessary work and materials to completely remove existing balancing tank and install the specified replacement balancing tank, components and materials as indicated on the drawings and specified herein, including, but not limited to:

- a. Demolition and disposal of existing Balancing Tank
- b. Assembly and installation
- c. Piping and valves
- d. System accessories
- e. Start-up service

**1.02 INTENT**

Purpose of the bid is to purchase and have installed a complete replacement Balancing Tank for the existing swimming pool. It is intended to limit the bidding to a style of product and company that has a proven history and record of performance.

**1.03 PROPRIETARY NAMES**

- a. Due to the specialized nature of certain components required for this project, these specifications, in some instances, refer to various components by trade or manufacturers name.
- b. Whenever a proprietary (trade) name is used within this Specification Section, it is used for informational purposes to describe a standard of required function, dimension, appearance and quality. All bidders are required to bid on the named manufacturer in the BASE BID. The Contractor may at his option, elect to bid using the products and/or services of alternate manufacturers listed as ALTERNATES on the bid form.

**1.04 ALTERNATES**

- a. Other systems or components will be considered only if a complete set of drawings and specifications detailing such equipment as it pertains to this project are received by the BOE Plant Operations Department for evaluation no later than ten (5) Days prior to the bid closing date. The submission should include a list of five (5) operating installations within 100 miles of Trumbull, CT.
- b. List should include the names and telephone numbers of the operating personnel. The technical contents of the submittal shall be project specific and include equipment fabrication details, and filter room layout in plan and elevation views, warranties, installation and operating instructions.
- c. Alternates meeting the terms and conditions of the bidding documents will be acknowledged prior to bidding by addendum. No alternates will be considered after the bid.
- d. For any and all alternates approved in accordance with the above conditions, state the amount to be DEDUCTED from the BASE BID if an alternate component is being offered. No provision has been or will be made for ADDITIVE bids.

**1.05 SUBSTITUTIONS**

No substitutions will be considered unless the specified product becomes unavailable due to no fault of the Contractor.

**1.06 QUALITY ASSURANCE**

- a. Due to the specialized nature of the specified work and products, all bidders shall be required to have a minimum of five (5) years of operating history. The equipment described herein shall be products of a manufacturer regularly engaged in the fabrication of filtration systems or components for at least Seven (7) years.
- b. The bidder shall include a list of five (5) projects, which have been in operation for at least five
- c. (5) Years. List shall include contact names, addresses, telephone numbers and year of installation.

### **1.07 GUARANTEE**

The "COMPONENT EQUIPMENT SUPPLIER" shall guarantee that the equipment to be furnished is of the correct capacity, that the various parts are designed to operate correctly and in conjunction with each other, that if the installation is made in accordance with the project drawings and when operated in accordance with the suppliers' instructions, the system will perform the prescribed functions correctly, the water entering the pool will be clear, bright, free from suspended matter visible to the unaided eye, and will be sanitary to the satisfaction of all authorities having jurisdiction.

### **1.08 SUBMITTALS**

Provide detailed shop drawings of the items of equipment being provided, indicating the dimensions, materials of construction and warranty. Provide a complete set of operating instructions, embracing the operational functions and recurring maintenance processes involved in connection with the complete filtration and chemical treatment system. Additional sets of instructions are to be provided, as required and requested, to BOE Plant Operations on behalf of the Aquatic Consultant.

### **1.09 WARRANTIES**

- a. Piping, valves and accessories shall include a three (3) year warranty unless otherwise noted.
- b. Unless otherwise specified, workmanship is to be guaranteed first class and carry a one (1) year warranty.

## **PART 2 – BALANCING TANK**

### **2.01 BALANCING TANK (FIBERGLASS)**

- a. Balancing tank to be ozone resistant solid fiberglass construction. Resin shall be premium corrosion resistant vinylester in accordance with ASTM D4389-04. The balancing tank shall be designed as a atmospheric vessel and hydrostatically tested to 10 psi.
- b. Balancing tank shall be maximum outside diameter of 48" with a total height of 96".
- c. Provide continuous one-piece cylindrical skirt as the tank support base. Cylindrical support skirt shall have diameter, which is 80% of the tank diameter, and fabricated to provide sufficient structural integrity to support a full tank of water 7" above the finished floor elevation. Tank shall be equipped with 14" x 18" manhole and fiberglass yoke cover. Tank shall be equipped with the necessary flanges and connections for the internal and external piping. Connections shall be constructed of schedule 80 PVC coupling and fiberglass flange. Main drain connection to be fitted with nipple and flange sized to accommodate stainless steel diversion valve.
  - Tank Connections: 6" main drain, 6" pump suction, 6" gutter.
- d. Provide two (2) 3/4" female threaded tank connections for installation of water level gauge.
- e. YMCA Style Diversion Valve: One (1) size 6" stainless steel 304L body and parts. Unit shall be a (dual) (single) float diversion valve complete with 3/8" stainless steel straight float arm and installed on the inside of the balancing tank.
- f. Pump suction assembly: PVC 6" size
- g. Water Level Gauge: One (1) for installation on the side of the tank, provide one water level gauge of non-corrosive materials including two (2) true union shut-off valves.
- h. Balancing Tank shall carry a 15 year fully rated warranty as regularly offered by the tank manufacturer.
- i. Balancing Tank shall be supplied with a Automatic Air Relief Valve
  - 1" valve shall be provided to automatically and continuously release air in the Balancing Tank. The valve shall be fabricated of plastic with Buna-N seals. A plumbing kit shall be provided with two (2) PVC ball valves to allow manual air relief and isolation of the automatic valve. Valves fabricated of cast iron, bronze or stainless steel shall not be acceptable

## **PART 3 - VALVES GENERAL**

Valves shall be butterfly valves constructed of epoxy coated cast aluminum and shall be provided as noted on project drawings. Valves shall be suitable for freshwater, saltwater and submerged applications.

### **3.01 LEVER OPERATORS**

- a. Valves shall be provided with 6 position latch lock handles.
- b. Latch lock handles shall be constructed of epoxy coated cast aluminum and shall include a spring loaded lever for position lock.
- c. Lever shall be capable of holding the disc in any of the locking positions with no movement up to the full pressure rating of the valve.

## PART 4 - EXECUTION

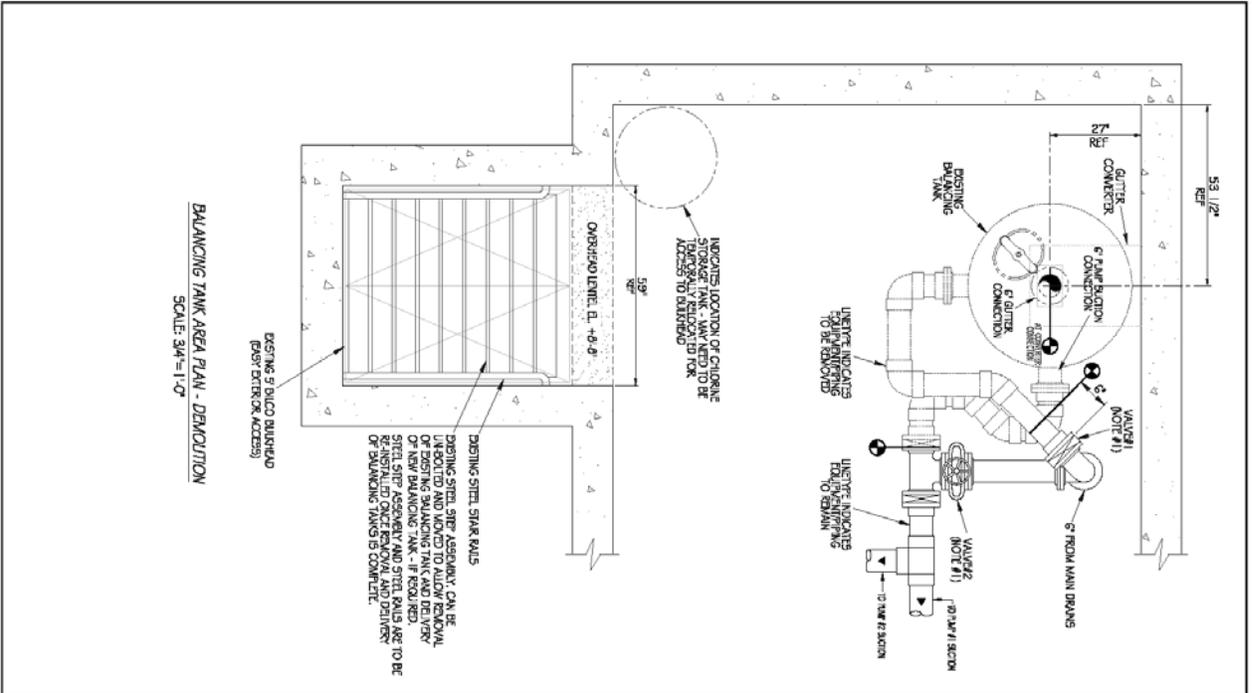
### 4.01 INSTALLATION AND CLEANUP

- a. The installation contractor shall assemble and install all balancing tank equipment, accessories and piping in accordance with the intent of these Specifications and as indicated on the Drawings and Shop Drawings of the Equipment Manufacturer and as recommended by the Equipment Manufacturer.
- b. Temporary, appropriate fencing, barriers and/or caution tape shall be erected as required at the perimeter of the limits of disturbance to prevent unauthorized entry into any work area. At the close of each work day, installation contractor shall not leave the job site until the work area is left in a safe and secured condition with proper signage, perimeter caution tape and any required barriers in place.
- c. Remove from the Project Site all excess materials, debris and rubbish resulting from the operations of this Section. The installation contractor shall at all times be responsible for daily good housekeeping and never leave the site in a messy or unsafe condition. The installation contractor will be required to pick-up and dispose of properly, all refuse and demolition materials into appropriate containers provided by him. Use of the facility's refuse containers or removal services will not be permitted.

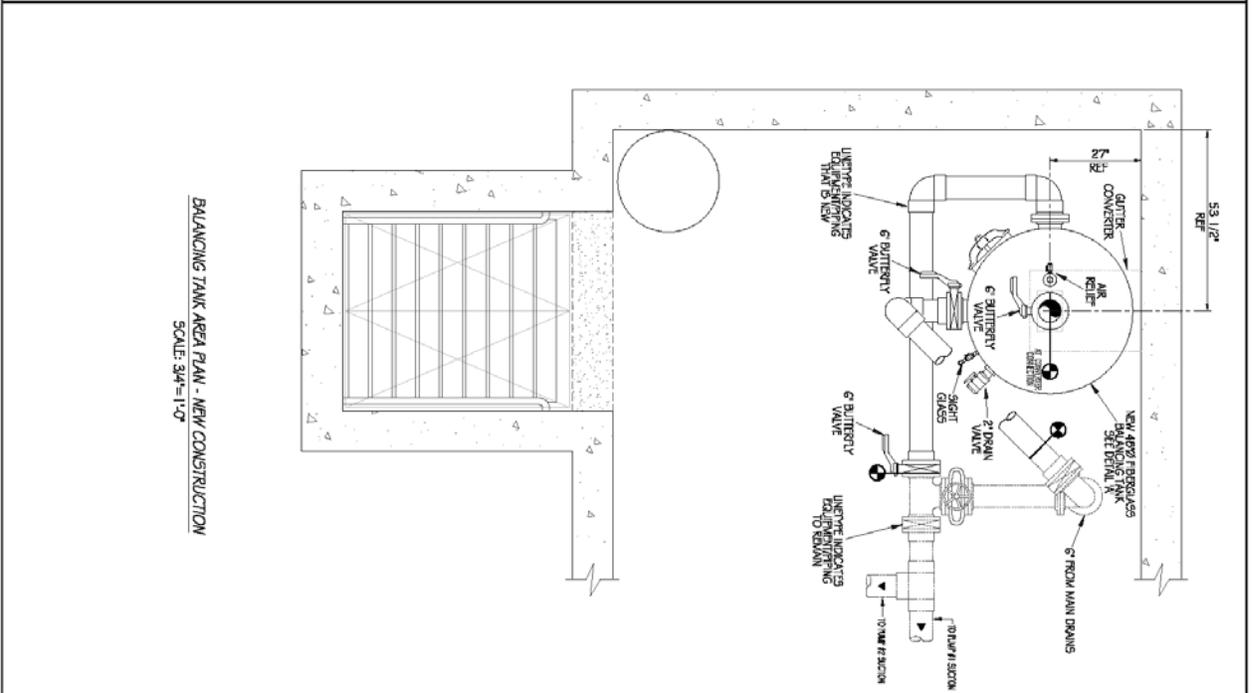
### 4.02 PIPING

- a. The Contractor shall furnish and install all piping beginning at the existing main drain valve to the balancing tank and to the existing pump suction line, and plumb to existing gutter connection. Refer to drawings for all connection and piping locations.
- b. In addition to the material indicated to be furnished by the "COMPONENT EQUIPMENT SUPPLIER", the Contractor shall furnish all other material and parts necessary to complete the installation.
- c. All new and replacement pipe and fittings shall be Schedule 80 PVC, with NSF seal.
- d. All new piping and systems as part of the new balancing tank system are to be pressure tested at 25psi for not less than 15 minutes. Piping and system pressure test is to be witnessed by owner representative with pressure test certificate indicating such.
- e. All new or replacement hardware in all areas, including but not limited to: filtration equipment room shall be T304 stainless steel or better. Plated or coated hardware of any type will not be considered equal or allowed.
- f. Piping arrangement shall be in accordance with equipment manufacturer's recommendations. Piping shall be supported at uniform centers and along all axes as required. Adjustable clevis, ring, riser clamps, or pipe clamps with broad support surfaces shall be used. Maximum spans shall be:

• Pipe Size	Support Spacing (Maximum)
• 1/2", 3/4"	4-1/2'
• 1"	5'
• 1-1/4", 1-1/2"	5-1/2'
• 2"	6'
• 2-1/2"	6-1/2'
• 3"	7'
• 4"	7-1/2'
• 6"	9'
• 8"	9-1/2'
• 10", 12"	10'



BALANCING TANK AREA PLAN - DEMOLITION  
 SCALE: 3/4"=1'-0"



BALANCING TANK AREA PLAN - NEW CONSTRUCTION  
 SCALE: 3/4"=1'-0"

**NOTES:**

1. TANK IS NOT TO BE DEMOLISHED FOR BALANCING TANK REPLACEMENT.
2. LOWER TANK WATER LEVEL TO LEVEL BELOW GUTTER WEIRS TO SOLICIT GUTTER FLOW.
3. GUTTER VALVE #1 & VALVE #2. OWNER HAS BE TOWNED VALVES ARE OPERATIONAL AND ARE CAPABLE TO ISOLATE TANK WATER FROM MAIN DRAIN FOR BALANCING TANK REPLACEMENT.
4. CLOSE VALVES AT STRAINER WELDS (2) TO ISOLATE TANK WATER.
5. INSTALLING CONTRACTOR IS TO INSTALL A 2" PVC BALL VALVE AT BALANCING TANK DRAIN.
6. INSTALLING CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND FITTING LOCATIONS PRIOR TO START OF RECONSTRUCTION OF BALANCING TANK.

**LEGEND:**

EXISTING TO REMAIN	EXISTING TO BE REMOVED
DEMCO	NEW

INDICATES LOCATION OF TIE-IN  
 TIE-IN LOCATIONS

**BALANCING TANK ELEVATION - DETAIL 'X'**

**ANTINOZZI ASSOCIATES**  
 ARCHITECTURE & INTERIORS  
 271 Sherman Avenue, Bloomington, CT 06044  
 Telephone: (860) 877-1500 Fax: (860) 877-0300

**Town of Trumbull, Connecticut**  
 Trumbull Public Schools  
 Stephen Kennedy, Plant Administrator  
 Phone: (203) 452-4300

**HILLCREST MIDDLE SCHOOL**  
 BALANCING TANK REPLACEMENT  
 530 Derricks Farm Road Trumbull, CT 06611

DEMOLITION PLAN & NEW CONSTRUCTION  
 DATE: Feb. 2, 2012    DRAWG. NO.: BR-1    REV. 0

TOWN OF TRUMBULL, CONNECTICUT - BOARD OF EDUCATION  
REPLACEMENT OF BALANCE TANK - POOL AT HILLCREST MIDDLE SCHOOL  
BID NUMBER: 5924 DUE: MARCH 24, 2012 @ 2:00PM

BID PROPOSAL FORM

THE UNDERSIGNED AFFIRMS AND DECLARES that this proposal is executed with full knowledge and acceptance of the specifications, requirements, terms and conditions contained herein and with complete understanding and full compliance of system requirements and hereby submits this proposal for the request noted above and certifies that this proposal meets all the specifications and conditions requested herein. Any substitutions to the specifications requested are clearly and completely noted. Any alternate proposals are presented in a similar format to those requested and are attached herein. It is understood that the Town reserves the right to reject any or all proposals or waive any formalities in this request. The proposed rates and discounts as follows:

Total Lump sum bid for the balance tank and installation as specified:

\_\_\_\_\_ Dollars  
Written

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

Lead time for balance tank delivery: \_\_\_\_\_ Days after receipt of order (ARO)

Anticipated time for completion: \_\_\_\_\_ Days after receipt of order (ARO)

Above Price Shall Remain Firm for: \_\_\_\_\_ Days

Work shall commence \_\_\_\_\_ days after receipt of Purchase Order

The quality of workmanship is guaranteed for a period of \_\_\_\_\_ year(s) from acceptance.

Note any and all exceptions or clarifications :( use additional pages as necessary)

\_\_\_\_\_  
Company Name

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

\_\_\_\_\_  
Address

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Telephone/Fax

\_\_\_\_\_  
email

\_\_\_\_\_  
24 Hour Telephone