

REQUEST FOR QUOTATION		<b>TROY SCHOOL DISTRICT</b>  <b>1140 RANKIN, TROY, MICHIGAN 48083</b>  <b>248-823-4052</b>  <b>FAX: 248-823-4077</b>	REQUISITION
No.	<b>9538</b>		
DUE DATE	NO LATER THAN		
<b>6-30-08</b>	<b>3 p.m.</b>		DATE <b>6-16-08</b>

**REQUEST FOR QUOTE – NOT AN ORDER**

THIS FORM MUST BE UTILIZED WHEN RESPONDING TO THIS REQUEST  
 BID ENVELOPE ENCLOSED

**THE RFQ NUMBER MUST APPEAR ON ALL QUOTATIONS AND RELATED CORRESPONDENCE, THIS IS NOT AN ORDER**

Quantity	DESCRIPTION	UNIT PRICE	AMOUNT
	<p>Please supply us with your bid to furnish the Troy School District with removal and replacement of an underground Diesel Fuel storage tank.</p> <p align="center">Copies of the bid are available at:  <a href="http://www.troy.k12.mi.us/purchasing/items_out_for_bid.htm">www.troy.k12.mi.us/purchasing/items_out_for_bid.htm</a></p> <p align="center">Bid recaps will be available at:  <a href="http://troy.k12.mi.us/purchasing/index.htm">troy.k12.mi.us/purchasing/index.htm</a></p> <p align="center"><u><b>FACSIMILE BID IS NOT ACCEPTABLE</b></u></p> <p>Bids will not be accepted if submitted after the deadline specified (local time) in the advertisement to bid or in the information to bidders. The late submission of a bid makes the bid nonrepsonsive and is a material defect which shall not be waived by the Board of Education. Delays in the mail will not be considered. All Late bids in the mail will be returned to the bidder unopened.</p> <p>Proposal for the submission of alternatives by vendors will be accepted and reviewed. However, if any substitution or departure is not clearly noted and described, it will be understood that the bid intends to exactly meet the specifications.</p> <p>The Board of Education shall be the sole judge as to whether the proposed goods are "equal" or "approved". Quotations must be mailed or delivered to the Purchasing Office, 1140 Rankin, Troy, MI 48083 no later than 3 p.m. on the date shown above. Michigan State Sales and Use Taxes and Federal Excise Taxes do not apply unless otherwise indicated. Exemption certificates will be furnished when necessary. This request imposes no obligations on the buyer. The Board of Education reserves the right to accept or reject any or all bids or to split awards by items or to accept bids, which will best serve the Board of Education.</p>		

**THIS AREA MUST BE FILLED IN**

DELIVERY TIME	PRICES FIRM FOR	NAME OF COMPANY	TELEPHONE NO.
TERMS		NO. & STREET	FAX #
FOB	ALL DELIVERY CHARGES MUST	CITY, STATE & ZIP CODE	E-MAIL
DELIVERED	BE INCLUDED IN PRICES SHOWN		
CONTACT PERSON (PLEASE PRINT)		SIGNATURE	DATE

**Note:** All bidders are specifically reminded that a completed Affidavit of Bidder (Familial Disclosure) MUST be completed and submitted with the bid response. Failure to include a completed copy will be grounds for disqualification of bid. The Affidavit of Bidder is required to be notarized for construction bids only. All others only require completion and signature.

**AFFIDAVIT OF BIDDER**

The undersigned, the owner or authorized officer of \_\_\_\_\_  
(the "Bidder"), pursuant to the familial disclosure requirement provided in the \_\_\_\_\_  
\_\_\_\_\_ (the "School District") advertisement for construction bids, hereby  
represent and warrant except as provided below, that no familial relationships exist  
between the over(s) or any employee of \_\_\_\_\_  
\_\_\_\_\_ and any member of the Board of Education of the  
School District or the Superintendent of the School District.

List any Familial Relationships:

**BIDDER:**

\_\_\_\_\_

By: \_\_\_\_\_

Its: \_\_\_\_\_

STATE OF MICHIGAN    )  
  )ss.  
COUNTY OF \_\_\_\_\_)

This instrument was acknowledged before me on the \_\_\_\_\_ day of \_\_\_\_\_, 2008,  
by \_\_\_\_\_.

\_\_\_\_\_

,Notary Public

\_\_\_\_\_County, Michigan

My Commission Expires: \_\_\_\_\_

Acting in the County of: \_\_\_\_\_

Request for Quotation # 9538  
Troy School District  
Underground Storage Tank Removal and Replacement  
Transportation Building  
120 Hart Drive  
Troy, Michigan 48098

Prepared for

Troy School District  
Mr. Frank Lams  
Purchasing Supervisor  
1140 Rankin Street  
Troy, Michigan 48083

Prepared by

Testing Engineers & Consultants  
C/O Mr. Michael K. Jordan  
Manager, Environmental Assessment  
1343 Rochester Road  
PO Box 249  
Troy, Michigan 48099-0249

TEC Project No. 49290

**Bid Due Date: Monday, June 30, 2008 at 3:00 PM EST**

## ADVERTISEMENT TO BID

The **Troy School District** is seeking qualified bids for the removal and replacement of an underground diesel fuel storage tank at its transportation facility. Bid proposals will be received by Troy School District, 1140 Rankin, Troy, MI 48083 delivery or mail, to the attention of Frank Lams by 3:00 p.m. local time on Monday, June 30, 2008. (The clock used for receiving bids is located at the Rankin office in the main office area). Proposals must be sealed with Bidder's name on the outside of the envelope and designated as follows:

**Sealed Proposal**  
**Underground Storage Tank Removal & Replacement**  
**Bid Package 9538**  
**Contractor Name, Address, Phone Number**

Proposals shall be based on the requirements set forth in this bid package specification. Any resultant contract shall be based on these specifications.

Accepted Bidders will be required, as a condition precedent to award of Contract, to furnish in the amount of 100% of the contract price, satisfactory Performance Bond and Payment Bond and Certificates of Insurance as required.

Unless otherwise specifically set forth, this Project is subject to state sales and/or use taxes and Bidder is required to include such taxes in its Bid Proposal.

Bid Proposals will be publicly opened immediately following receipt of bids by the Troy School District and evaluated by Owner with awards subsequently made by Troy School District.

***The Owner shall not open, consider or accept a Bid Proposal that is received after the date and time specified for bid submission in this Advertisement for Bids.***

Bidding Documents will be available for examination and distribution on or after Monday, June 16, 2008. Examination made be made at the following locations:

- Troy School District, 1140 Rankin, Troy, MI 48083
- Construction Association of Michigan, 43636 Woodward Ave., Bloomfield, MI 48302
- F.W. Dodge, 21415 Civic Center Drive, Suite 115, Southfield, MI 48076

A pre-bid conference (ATTENDANCE STRONGLY ENCOURAGED) and site tour will be held at the Troy School District Transportation Facility (120 Hart Street, Troy, MI 48098) on **Monday, June 23, 2008 at 9:00 a.m.** All Bidders should plan to attend the pre-bid conference. Troy School District is not responsible for providing information to those who do not attend the pre-bid conference.

Bid Proposals shall be on forms furnished by **Troy School District**. Bidders will be required to submit with their Bid Proposals, a notarized Familial Relationship Disclosure Form, a Bid Security by a qualified surety authorized to do business in the State of Michigan where the Project is located, an OSHA Form 300 for the most recent completed year, their worker's compensation Experience Modification Rate (EMR) factor and any other information required in the Instructions to Bidders. Bidders shall not withdraw Bid Proposals for a period of **ninety (90)** days after date for receipt of Bid Proposals.

The right to accept or reject any or all Bid Proposals, either in whole or in part, to waive any informalities or irregularities therein and to award the contract to other than the low bidder is reserved by Troy School District.

All Bid Proposals shall be accompanied by the sworn and notarized statement disclosing any familial relationship that exists between the owner or any employee of the Bidder and any member of the School Board or the superintendent of the School District. Bid proposals that do not include this sworn and notarized disclosure statement will not be considered accepted.

The successful bidder and its subordinate parties shall comply with the Prevailing Wage Requirements for all work as required by the State of Michigan Public Act 166 Dated 1965 As Amended.

**End of Advertisement**

**TROY SCHOOL DISTRICT  
UNDERGROUND STORAGE TANK REMOVAL &  
REPLACEMENT  
BID# 9538**

The successful bidder and its subordinate parties shall comply with the Prevailing Wage Requirements for all work as required by the State of Michigan Public Act 166 Dated 1965 As Amended.

Due to the required timing of the release of this Request For Proposal, the actual Prevailing Wage scale to be used for this project was not yet available. Bidders are specially notified that this project is subject to the Prevailing Wage Requirements and that the specific Prevailing Wage scale will be published as Addendum #1 to this Request for Proposal.

All respondents MUST acknowledge receipt of all Addendums published as part of this Request For Proposal. Submissions not acknowledging receipt of the issued addendums will be considered as incomplete and be deemed not acceptable.

## **BID SECURITY**

- A. Bid security in the form of a bid bond issued by a qualified surety, certified check or cashier's check in the amount of five percent (5%) of the Base Bid amount will be required at the time of submission of the Bid Proposal. Bid bonds shall be duly executed by the bidder, as principal and by a surety that is properly licensed and authorized to do business in the state in which the Work is to be performed. All sureties providing bonds for this Project must be listed in the latest version of the Department of Treasury's Circular 570, entitled "Companies Holding Certificates of Authority as Acceptable Sureties on Federal bonds and as Acceptable Reinsuring Companies", with the bond amount less than or equal to the underwriting limitation, and/or have an A.M. best rating of A- or better.
- B. Bid bond shall pledge that the Bidder, with the understanding that if its Bid Proposal is accepted, will enter into the Agreement with Troy School District for any of the Bid Category(ies) accepted from its Bid Proposal and will, if required, furnish performance and payment bonds covering the faithful performance of the Agreement and the payment of all obligations arising there under. The attorney-in-fact, who signs the surety bond, must submit along with the bond, a certified and effectively dated copy of his/her power of attorney.
- C. Bid bond form AIA Document A310 is approved for use on this Project.
- D. The bid security obligees shall be **Troy School District** and the amount of the bid security shall become their property in the event that the Bidder fails, within Sixty (60) days of notice of award or receipt of the Agreement form, to execute the Agreement, and deliver the performance and payment bonds as described. In such case, the bid security shall be forfeited to Troy School District as liquidated damages, not as a penalty.
- E. The Owner will have the right to retain the bid security(ies) of Bidders to whom an award is being considered until either (a) the Agreement has been executed and bonds, if required, have been furnished, or (b) the specified time has elapsed so that Bid Proposals may be withdrawn, or (c) all Bid Proposals have been rejected.
- F. Bid security will be returned to the successful bidders after the Agreement has been executed, and acceptance of required performance and payment bonds. The bid security of Bidders that are not under consideration for award of the Agreement will be returned to those Bidders.

## **SUBMISSION OF BIDS**

- A. All copies of the Bid Proposal, the bid security and any other documents required to be submitted with the Bid Proposal shall be enclosed in a sealed opaque envelope. The envelope shall be addressed to the party receiving the bids and shall be identified with the Project name, the bidder's name and address, if applicable, the designated portion of the Work for which the Bid Proposal is submitted. If the Bid Proposal is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face of the envelope.
- B. Bid Proposals shall be deposited at the designated location prior to the time and date for receipt of Bid Proposals indicated in the Advertisement to Bid, or any extension thereof

made by Addendum. Bid Proposals received after the date and time for receipt of bids will be returned unopened.

- C. The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bid Proposals.
- D. Oral, telephonic, facsimile, emailed or telegraphic Bid Proposals or bid securities are invalid and will not receive consideration.
- E. Bid Proposals will only be accepted for individual Bid Categories. Bidders are required to bid an entire Bid Category. Bidders may bid more than one Bid Category. Combined bids covering several Bid Categories may not be accepted unless separate bid amounts are listed for each Bid Category making up the combined bid amount. The amount for a combined bid, however, need not be equal in amount to the total of the individual category bids.

### **MODIFICATION OR WITHDRAWAL OF BID PROPOSAL**

- A. A Bid Proposal may not be modified, withdrawn or canceled by the Bidder after the stipulated time period and date designated for the receipt of Bid Proposals, and each Bidder so agrees in submitting its Bid.
- B. Prior to the time and date designated for receipt of Bid Proposals, any Bid Proposal submitted may be modified or withdrawn by notice to the party receiving Bid Proposals at the place designated for their receipt. Such notice shall be in writing over the signature of the Bidder.
- C. Withdrawn Bid Proposals may be submitted up to the time designated for the receipt of bids provided that they are then fully in conformance with these Instructions to Bidders.
- D. Bid security under B. or C., above shall be in an amount for the Base Bid as modified or resubmitted.

### **CONSIDERATION OF BIDS**

#### **OPENING OF BIDS**

- A. Bid Proposals received on time will be open publicly.
- B. Bid Proposals shall be held open and irrevocable for **Forty-five (45)** days after the receipt of bids.

#### **REJECTION OF BIDS**

- A. **Troy School District** shall have the right to reject any or all bid Proposals and to reject a Bid Proposal not accompanied by the required bid security or by other information required by the Bidding Documents, or to reject a Bid Proposal which is in any way incomplete or irregular.
- B. Bid Proposals are considered irregular and may be rejected for any of the following reasons unless otherwise provided by law:
  - 1. If Bid Proposal Form furnished is not used or is altered.

2. If there are unauthorized additions, qualified or conditional Bid Proposals, or irregularities of any kind which may make the Bid Proposal incomplete, indefinite, or ambiguous as to its meaning.
3. If Bidder adds any provisions reserving right to accept or reject any award, or enter into the Agreement pursuant to an award.
4. If Unit or Lump Sum prices or Alternates contained in the Bid Proposal are obviously unbalanced either in excess of, or below, reasonable cost analysis values.
5. If Bidder fails to complete the Bid Proposal Form where information is requested so the Bid Proposal form cannot be properly evaluated.
6. Bidder is deemed to not be the Lowest Responsive, Responsible Bidder by definition and prevailing statutes.
7. Bidder does not submit with its Bid Proposal a sworn and notarized statement of Familial Disclosure.

### **ACCEPTANCE OF BID (AWARD)**

- A. It is the intent of the **Troy School District** to award the Agreement to the Lowest Responsive and Responsible Bidder provided the Bid Proposal has been submitted in accordance with the requirements of the bidding Documents and does not exceed the funds available. **Troy School District** shall have the right to waive any informality or irregularity in any bid Proposal received and to accept Bid Proposals which, in its judgment, are in its own best interest which includes not awarding to the low bidder. **Troy School District** reserves the right to reject any bid Proposal in its sole discretion except where otherwise provided by law.
- B. **Troy School District** shall have the right to accept any Alternates in any order or combination and to determine the low bidder on the basis of the sum of the Base Bid, Voluntary Alternates and Alternates accepted.
- C. **Troy School District reserves the right to award this bid on an individual site basis. Bidders are encouraged to bid all work at all sites, however, no disqualification will be made on bids which opt to bid on less than all sites providing that the submitted bid is complete on a *per site basis*.**

### **INSURANCE REQUIREMENTS**

As a condition of performing work under the Agreement, Contractor will keep in force, at all times during performance of the Work, policies of insurance covering all Basic Insurance Requirements and any applicable Supplemental Insurance Requirements. The requirements identified below are minimum requirements. If the Agreement or other Contract Documents impose additional or higher standards, contractor shall meet those as well. Where a Controlled Insurance Program ("CIP") is specified in the Contract Documents, these insurance requirements shall not apply to coverage supplied by the CIP, but shall apply to coverage which Contractor is required to carry outside the scope of the CIP.

#### **Basic Insurance Requirements**

Workers' Compensation covering Contractor's statutory obligations in the State(s) in which the Work is to be performed or Federal statutory obligations, if applicable to the Project and Employers' Liability insurance with limits of liability of \$1,000,000 per accident. Where



applicable, a US Longshore and Harborworker's Compensation Act endorsement must be included.

If Contractor employs the services of leased employees for the Work or for a portion of the Work, it will be required to submit evidence, to the satisfaction of the Troy School District, that such leased employees are fully covered by the minimum limits of Workers' Compensation and Employers' Liability Insurance. Such evidence shall include, but not be limited to, submission of the applicable leasing agreement.

Automobile Liability insurance with the limit of \$1,000,000 per accident covering Contractor's owned, non-owned and hired automobiles.

Commercial General Liability Insurance written on the 1988 ISO OCCURRENCE policy form or subsequent versions with the limits of liability as follows:

General Aggregate	\$2,000,000
Products-Completed Operations Aggregate	\$2,000,000
Personal/Advertising Injury	\$2,000,000
Each Occurrence	\$2,000,000

This coverage shall include coverage for premises-operations, independent contractors' protective products and completed operations, personal injury and broad form property damage (including coverage for explosion, collapse, and underground hazards), and Contractual Liability protection with respect to Contractor's indemnification obligations under the Contract Documents. Products-completed operations coverage must be maintained for at least two years after final completion of the Project.

### **General Provisions**

Every policy must be written by an insurance company licensed in the state of Michigan and is reasonably acceptable to the Troy School District.

For Employer's Liability, Commercial General Liability and Automobile Liability may be attained by a combination of an underlying policy with an umbrella or excess liability policy.

The Troy School District shall be endorsed as additional insureds on Contractor's liability insurance (including general liability, excess liability, automobile liability and pollution liability, where applicable, with respect to liability arising out of activities performed by or on behalf of Contractor. The coverage provided by the additional insured endorsement shall be at least as broad as the Insurance Service Office, Inc.'s Additional insured, Form B CG 20 10 11 85 or CG 20 26 11 85. Forms that do not provide additional insured status for completed operations will not be accepted.

Contractor will furnish, before any work is started, certificates of insurance showing the required coverage Receipt by Troy School District of a non-conforming certificate of insurance without objection, or Troy School District's failure to collect a certificate of insurance, shall not waive or alter Contractor's duty to comply with the insurance requirements. Modifications to these insurance will not be effective unless made in a writing executed by an authorized representative of the Troy School District. Upon written request by Troy School District, contractor will provide copies of its insurance policies.

Evidence of the required insurance is to be provided to Troy School District on ACORD Certificate Form 25-S and must indicate:

Any coverage exclusions or deviations from the 1988 ISO commercial general liability form or subsequent versions;

Best's rating for each insurance carrier at A minus VII or better;

That the issuing insurance company will provide thirty (30) days written notice of cancellation to the certificate holder and the words "endeavor to" and "but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" do not apply or have been removed;

That additional insured endorsements have been provided as required under the Contract Documents;

and

Any deductibles over \$10,000 applicable to any coverage.

All coverage must be primary and not excess over or contributory with any other valid, applicable and collectible insurance in force for Troy School District, or other insureds.

Contractor will provide full coverage for all of Contractor's equipment, property and tools used in the Work.

Contractor shall waive, and shall require (by endorsement or otherwise) its insurers providing the coverage required by these insurance requirements to waive, subrogation rights against Troy School District, and all other additional insureds for losses and damages incurred and/or paid under the insurance policies required by these insurance requirements or other insurance applicable to Contractor or its Subordinate Parties, and will include this same requirement in contracts with its Subordinate Parties. If the policies of insurance referred to in this paragraph require an endorsement to provide for continued coverage where there is a waiver of subrogation, the owners of each policies will cause them to be so endorsed.

Contractor will send or fax a copy of these insurance requirements to its agent when an insurance certificate is requested to assure that the policies comply with the insurance requirements.

If Contractor requires its Subordinate Parties to provide additional insured endorsements in favor of Contractor, those endorsements shall be extended to Troy School District and all other required additional insureds.

Contractor's duty to provide the insurance coverage set forth in these insurance requirements is a severable obligation from Contractor's indemnification obligations under the Contract Documents. Nothing in these insurance requirements shall be deemed to limit Contractor's liability under the Agreement.

## **SUMMARY OF WORK**

**Location of Work** – The Troy School District Transportation Building is located at 120 Hart Drive, Troy, Michigan, 48098.

**General Scope of Work** – Provide labor, materials, equipment and supervision of skilled trades as necessary to properly remove an existing 10,000-gallon diesel fuel underground storage tank (UST) constructed of steel including associated dispensers and piping, and install a 15,000-gallon diesel fuel UST constructed of fiberglass including associated dispenser and piping.

Specifically, the Contractor shall complete the following tasks:

- Coordinate provision of a “day-tank” for ongoing summertime fueling requirements of approximately 500 gallons per week.
- Saw-cut and remove pavement materials (asphalt and concrete) as necessary to expose the existing UST and UST excavation area.
- Establish site erosion and sedimentation controls including stormwater runoff controls, silt fencing in catch basins, use of visqueen plastic sheeting for stockpiled materials, track-out control measures, etc., as required.
- Establish site safety including signage, temporary barricades, etc., as required.
- Coordinate any necessary soil and/or groundwater screening and/or sampling with Testing Engineers & Consultants, as required.
- Remove and render unusable the existing 10,000-gallon diesel UST.
- Remove and dispose of impacted soils as directed by Testing Engineers & Consultants to an approved, licensed landfill.
- Remove and retain existing pump, dispenser, and card reader for potential reuse.
- Install “dead-man” anchor system or equivalent to secure the new 15,000-gallon UST.
- Coordinate delivery and installation of new 15,000-gallon UST.
- Place and compact clean engineered fill, as necessary, in accordance with ASTM D1557, Modified Proctor Test protocol. Note that fill materials that do not meet 95% of maximum laboratory density will not be accepted, and must be reworked and/or removed and replaced at the Contractor’s expense until the maximum dry density compaction criterion is met.
- Install new piping system.
- Connect system and card reader to existing monitoring system.
- Restore the pavement materials (asphalt and concrete) as required.

**Contractor Requirements** – Contractor must demonstrate in their bid submittal that they have the requisite experience, staff, and capability to complete the installation in the time required (i.e., on or before August 29, 2008), including all inspections, certifications, permits, tests, etc., as necessary to have a fully-operational system that meets all permit, legal (local, state, federal), and Michigan Department of Environmental Quality requirements.

At a minimum, the Contractor shall:

- Be licensed by the State of Michigan to provide the services described in the General Scope of Work.
- Provide workers trained and certified or licensed, as applicable, in the trades required to perform the Scope of Work.
- Provide certified workers to install and connect the system monitoring equipment, including leak-detection systems.
- Provide certified workers to install and connect the UST System, including piping and leak-prevention systems such as overfill protection system components.

**Additional Contractor Requirements** – Additionally, the Contractor shall furnish the following items:

- Three (3) copies of the system Operation & Maintenance Manual, including parts lists, service schedules, and as-built drawings.
- Training for Troy School District staff as necessary to operate and maintain the system.
- A one-year warranty for parts and service, including labor. Warranty shall not begin until the system has been (1) tested, certified and approved, (2) accepted by Testing Engineers & Consultants and Troy School District, (3) Training of Troy School District Staff has been completed, and (4) any and all final “punch-list” items are completed.

**Optional Work Scopes** – In addition to the Scopes of Work described above, Troy School District also requests schedule and pricing for the following optional work scopes:

- New Monitoring System – Veederroot TLS 300C or equivalent or better
- New pole-mounted two-fixture light with appropriate footings at dispenser location (requires relocation of vent piping to within 20 feet of the tank)
- Provide for temporary onsite storage and proper disposal of any water that must be removed from the excavation to complete the removal and installation activities
- Provide and install one new Fuel Master Fuel Management system (Pro Kee 80 with 105 keys and software based data system and encoder) or equivalent or better.

**Schedule** – Bids are due no later than Monday, June 30<sup>th</sup> at 3:00 p.m. EST. The Troy School District Board of Education will determine the date of contract award, but it is anticipated that contract award will be made on or about July 11, 2008. All work must be completed no later than August 29, 2008.

Contractor’s response to this Invitation to Bid must include a project timeline or schedule indicating significant project milestones.

Contractor will have access to the site from 7:00 a.m to 5:00 p.m., Monday through Friday. If Contractor requires additional hours onsite to meet the project completion date of August 29, 2008, Contractor must indicate their request in their response to the Invitation to Bid.

**Materials** – Contractor is responsible for their materials and any measurements necessary to verify site conditions prior to ordering necessary materials to complete the UST Removal and Replacement project. Furthermore, the Contractor is responsible for the proper disposal of all packaging and shipping materials in accordance with State and Local Regulations.

**Health and Safety** – Contractor is required to keep work areas safe, clean and organized at all times, and to maintain a perimeter safety barrier to safely control vehicle and pedestrian traffic during construction. Contractor will be responsible for damages caused by their negligence during the UST Removal and Installation process.

Contractor must develop and present to Troy School District a site-specific Health and Safety Plan prior to commencing any on-site work activities. During excavation and removal activities, Contractor must use only workers and supervisors who have been properly trained and certified in accordance with 29 CFR 1910.120 for Hazardous Waste Operations and Emergency Response.

**Quality Assurance/Quality Control** – Contractor shall provide for and include in its price the cost for all permits, inspections, and tests necessary to complete the installation and removal work.

**Project Close-Out and Inspection** – Contractor shall provide Troy School District with all permits, inspection reports, certificates, warranties, and guarantees relating to the removal and installation work. Additionally, Contractor shall provide Troy School District with a sworn statement of full, unconditional waiver of lien for the Contractor's total project cost, including any necessary and approved change orders, and individual sworn statements of full, unconditional waivers of lien from all subcontractors and suppliers.

**UST Removal and Installation Price** – Contractor Bid Pricing must be complete and include all costs necessary to complete the work, including the optional work scopes, as described in the Invitation to Bid and as is required by applicable rules and regulations and as is required by UST System component manufacturers in order to start-up and maintain the system in accordance with certification and warranty provisions. Contractor is solely responsible for any omissions of cost from its bid.

Necessary project change orders must be reviewed by Testing Engineers & Consultants, and approved by the Troy School District officials in writing prior to the costs for any change orders being incurred. Contractor costs not approved in writing prior to being incurred may not be approved, even if said changes and costs are necessary to complete the project.

**TABLE 1**

**REQUEST FOR QUOTATION PRICE SHEET**

**TROY SCHOOL DISTRICT**

**UNDERGROUND STORAGE TANK REMOVAL AND REPLACEMENT**

**TRANSPORTATION BUILDING**

**120 HART DRIVE**

**TROY, MICHIGAN 48098**

Company: \_\_\_\_\_

<i>Task</i>	<i>Item</i>	<i>Quantity</i>	<i>Unit</i>	<i>Unit Price</i>	<i>Total Cost</i>
<b>1</b>	<b>Health &amp; Safety Plan</b>	1	l.s.		
<b>2</b>	<b>Day Tank</b>	1	l.s.		
<b>3</b>	<b>Saw Cut and Remove/Dispose of Paving</b>	1	Ton		
<b>4</b>	<b>Stockpile and Remove/Dispose Backfill</b>	1	Ton		
<b>5</b>	<b>Remove &amp; Dispose 10,000-Gallon UST</b>	1	l.s.		
<b>6</b>	<b>Install New UST System</b>	1	l.s.		
<b>7</b>	<b>Restore Paving Materials, As Necessary</b>	1	l.s.		
<b>8</b>	<b>Optional - New Monitor System Installed</b>	1	l.s.		
<b>9</b>	<b>Optional - Pole-Mounted Light Installed</b>	1	l.s.		
<b>10</b>	<b>Optional - Storage &amp; Disposal of Water</b>	1	Gallon		
<b>11</b>	<b>Optional New Fuel Management System</b>	1	l.s.		
<b>TOTAL:</b>					<b><u>\$0.00</u></b>

Authorization:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name, Title, Date



# TECHNICAL SPECIFICATION

## FOR A KEY ACTIVATED FUEL MANAGEMENT SYSTEM

- 1.0 GENERAL DESCRIPTION
- 2.0 APPLICABLE DOCUMENTS
- 3.0 PERFORMANCE
- 4.0 STORAGE
- 5.0 REQUIRED FEATURES
- 6.0 DESIGN
- 7.0 TRAINING
- 8.0 MAINTENANCE & PARTS
- 9.0 WARRANTY
- 10.0 BID REQUIREMENTS
- 11.0 REQUIRED EQUIPMENT / INSTALLATION

## 1.0 GENERAL DESCRIPTION

This specification establishes the performance and design requirements for an Automated Fuel Management System that will control and record the dispensing of fuel. The vendor shall provide a stand-alone system, capable of unattended operation for 7 days a week, 24 hours a day. Fuel products shall be limited to equipment and operators with authorized keys. Dial up of the island key reader(s) shall be by voice grade telephone or direct connected to the island unit with user-friendly software loaded on a remotely located PC. The fuel management system (automated data collection system) shall reliably read all keys and have the ability to lock out any key.

## 2.0 APPLICABLE DOCUMENTS

The equipment must be designed to meet the following specifications:

- National Electrical Code, NFPA #70-1999
- Uniform Fire Code
- Underwriters Laboratories 1238
- FCC, Part 15, Class A

## 3.0 PERFORMANCE.

3.1 **System Components.** The fuel management (automated data collection) system shall, as a minimum, consist of the items described below.

3.1.1 Read/write keys will be used to activate the system by insertion into a key reader and will be unique to each vehicle, user, supervisor or tanker truck. Keys shall attach to vehicle key rings. Keys should be capable of being written to 100,000 times, and vehicle keys should contain the previous transaction mileage and range for reasonability check. Quantity and product restrictions are also to be encoded on keys. Keys must have gold plated contacts and pins. Keys cannot require a turning or twisting motion to activate the system.

3.1.2 A key reader device, located on the fuel island, is used to turn fuel dispensers on and off, monitor fuel dispensed, recognize authorized keys, and interface with existing dispensers and tank level monitoring systems. The island fuel management unit should have a 32bit processor operating at 25MHz or faster and preferably a socket modem to permit upgrade of modem. Modem should be at least 33.6kbps. The receptacle for reading keys must be covered to prevent sand, water and snow from causing system problems. The fuel island equipment should



have flash memory so that firmware can be updated without having to replace chips. The unit should have at least 4 MB of non-volatile SRAM..

- 3.1.3 A PC (IBM compatible) with a printer is used as the Central Controller and will be furnished by the buyer. The PC must operate on Windows 2000, XP, or NT.
- 3.1.4 A key encoder interfaces with the Central Controller to permit transferring data onto keys.
- 3.1.5 Software is installed on an IBM compatible PC, permitting the encoding and re-encoding of keys; manipulation of transaction data for printing reports on vehicles, users, products, etc.; downloading of transactions and uploading of authorized user/vehicle lists and transfer and storage of data. The fuel management system software must permit the use of a file server and client workstations. Transaction data may be transferred to any program accepting a flat ASCII file. Software must include an invoicing capability that allows the user to generate invoices for selected customers or agencies from the central controller printer. Invoices must list each transaction for all vehicles for a user-selected period. The software must also permit the use of pre-paid PROKEE®s and the ability to add money to the key through the encoder.
- 3.1.6 Tanker truck (mobile) key readers, that perform identically to island key readers in controlling and monitoring fuel, must be available.

3.2 **System Configuration.** The equipment and software shall be capable of operating in the five different system access configurations listed below (operating as either a one key or two key system with driver providing keypad input). The system configurations listed below which use a vehicle key shall support the option of terminating a transaction (thus not permitting refueling) if a vehicle's odometer reading is out of the range encoded on its key. The buyer shall have the option of selecting the initial configuration and the option of changing the configuration at a later date should operational requirements so dictate.

- Vehicle key and verifiable driver number
- Vehicle key and unverified driver number
- Vehicle and driver key
- Either vehicle or driver key
- Driver key and verifiable vehicle number

3.2.1 Vehicle Keys. Data on Vehicle Keys is as follows:

- Key identification number
- Vehicle budget or agency number
- Vehicle license number
- Fuel type (allows pumping of designated fuel type only)
- Maximum number of gallons/units allowed per transaction for each product type
- Odometer or hour reading
- Preventive maintenance reminder (oil change mileage, etc.)
- Site signature to identify the applicable owner's system

3.2.2 Driver keys, if used in lieu of having the driver enter an ID number on the island key reader keypad. Driver keys will be encoded with the following information:

- Key identification number
- Driver identification number
- Types of products authorized
- Product limitations
- Budget or agency number
- Site signature

3.2.3 Supervisor Keys. Supervisor keys shall allow the on-site supervisor special access to the site's key reader. This access allows the supervisor to:

- Change the key reader's configuration, to include time/date, product codes, hose numbers, tank numbers, pulser divide rate, no pulse time out, key timer setting, pump finish timer, message duration setting, zero-quantity shutdown, and pump handle switch control
- Issue fuel
- Update a vehicle key's PM flags
- Activate semi-manual mode of fuel issue
- Initiate on-site reports generation
- Enter fuel drops and corrections to fuel drops
- Perform diagnostic testing of system components

**3.2 System Capability.** Each island key reader shall have the ability to simultaneously control up to eight (8) hoses and control up to eight (8) satellite units, which in turn can simultaneously control up to eight (8) hoses.

The system must have the capability to interface with certain electronic dispensers via a serial connection. Each side of an MPD will become a fueling point, and blended dispensers will be supported. Pricing in electronic dispensers may be

changed through the fuel management system for most dispensers.

Each master and each satellite key reader shall store a minimum of 4,000 transactions. The system shall be capable of performing as a gate opener using switch closure. Also, the system shall provide the option of providing a less expensive gate opener, which is not a complete key reader unit. The fuel management system shall also be capable of controlling bulk or canned oil, antifreeze, CNG and other alternative fuels or liquid products. The system must have the capability to mount a key reader on a tanker truck to act as a mobile refueling site.

Each hose shall be individually set for any number of pulses between 1 and 1000 for each unit of measurement. Thus, the system can use various rate pulsers to measure different products to various levels of accuracy.

**3.3 Operator Input at Fueling Station.** The system shall include a key reader with a liquid crystal display (LCD) using light emitting diodes (LED) with back light, that is a minimum of 2 lines by 40 characters. It must also include a numeric keypad (0 through 9, A through D, Enter/Yes, and Clear/No) located near the pumps. The operator shall be prompted by the LCD to input information, that shall be recorded as part of the transaction record, for each transaction in accordance with the system configuration of paragraph 3.2 above. The driver will insert his/her key into the island key reader, and upon queue from the system prompts will enter his/her ID number and odometer reading, and select a pump.

#### **3.4 Data Management and Reporting.**

3.4.1 Each island key reader may be downloaded by the central controller operator at his/her convenience, or at a time of day programmable by the central controller operator. When automatically downloading, the system shall dial each site in sequence and generate a report of all transactions for individual sites once each 24-hour period. The system must be capable of unattended dialing and downloading, thus permitting downloading when sites are not in use and when phone rates are less. The software shall operate on an IBM compatible PC using Windows 2000, XP, or NT. The software shall permit networking.

3.4.2 The system shall provide the following information at the central controller as a transaction record:

- A unique transaction number
- User identification number.
- Vehicle odometer or hour reading.

- Vehicle Number.
- Number of units (gallons, quarts, cubic feet, therms, etc.) dispensed to tenths, hundredths, etc.
- Fuel site.
- Data & time. (includes seconds)
- Hose number.
- Product number.
- Key type

3.4.3 The system shall be capable of totaling monthly fuel costs by organization number, vehicle ID number, agency number, and user number.

3.4.4 The system shall keep a declining balance inventory of fuel remaining in storage. The inventory report shall give a summary of the remaining fuel in each storage tank monitored. It must also note when fuel should be purchased for a specific tank.

3.4.5 The system shall allow the operator to compile summary reports for all transactions by site, organization, date, vehicle, etc.

3.4.6 All vehicles due for preventive maintenance shall be printed as an exception report on the central controller's printer, provided the PM option is used.

3.4.7 All vehicles that have an out of range odometer reading shall be printed as an exception report on the central controller's printer.

3.4.8 The central controller shall be capable of displaying reports on the central controller monitor before the reports are printed. When reports are displayed on the monitor, the user shall be capable of scrolling up and down to view any page of the report.

4.0 **Storage.** In the event of a power failure to the island key reader equipment located at the pump, the system shall have the capability to store all data collected up to the time of the power failure for a minimum period of three months. The equipment at each fueling site must have the ability to operate if the central processor is down, limited only by the key reader's internal storage capacity. There shall be a method to access dispenser transaction information should there be data transmission problems. The main board, with memory, shall be removable and must be capable of being installed in an operating unit and downloaded; or, if the central controller is inoperable, another central controller

shall be capable of downloading data. Support for recovering data from the system shall also be provided by the factory when required.

**5.0 Required Features.** These required features must be available, without exception.

- 5.1 Upgradeable to Fully Automated RF/TAG System.** The fuel management system must be capable of a future upgrade to a fully automated system, requiring no human intervention for the system to operate. RF/TAG technology is the preferred method for an autonomous, passive system.
- 5.2 On-site transaction printer.** An on-site transaction printer will be provided for each site. An on-line journal printer, driven by the key reader, and located at the self-service fueling station, will print (record) each transaction as it occurs. This allows the remote site operators to maintain a hard copy record of transactions, as well as the capability to print the site configuration and total fuel dispensed by hose number and product code.
- 5.3 True Manual Override.** The system shall permit manual override of the fuel management system should any problem occur. The override must be a complete, total by-pass of the fuel management system. Thus any requirement that parts of the fuel management system be operational for the manual override to function, for example, emit fiber optic signals, etc. is unacceptable.
- 5.4 Semi-Manual Mode.** The system shall have the capability to record fuel dispensed in emergency situations when there is a need for vehicles without keys to be refueled or to streamline refueling operations, and yet accountability is still desired. With this option, individual key readers may be put into the semi-manual mode with a supervisor's key. When in this mode, fuel can be dispensed by any pump as if the key reader was not functioning, but the key reader will record all transactions as semi-manual transactions.
- 5.5 Self-diagnostic capability.** The island key reader shall permit diagnostic testing of boards, LCD, and keypad using the supervisor's key.
- 5.6 No-twist Key.** The key used to activate the system cannot require a turning or twisting motion. Information must be read from the key by merely inserting the key straight into a key receptacle.
- 5.7 Capability to record oil.** The system shall have the capability to have drivers record whether or not they checked their oil and the amount of oil added, using the keypad on the island key reader. This information will be downloaded into the system software and permit the tracking of oil usage.

- 5.8 **Toll Free Support.** The vendor shall provide toll free support during the warranty or extended maintenance period for the hardware and software that is being bid. Additionally, a means of dialing the vendor's product support technicians directly from the island key reader is desired.
- 5.9 **Extended Maintenance Agreements.** The vendor shall offer extended maintenance agreements on an annual basis for the life of the system (minimum 10 years).
- 5.10 **Customer School.** The vendor shall provide a customer school for the training of system operators. There should be no charge for the school other than transportation, hotel and per diem.
- 5.11 **Surge Protection.** The system shall have surge (lightning) protection on the AC power line and on the telephone line. Surge protection shall be designed specifically for the voltage and current requirements of fuel management systems.
- 5.12 **Modifiable Prompts.** The system shall have the capability to customize the initial entry prompt, user ID and vehicle ID prompts.
- 5.13 **Lap Top Computer Support.** The system shall have the appropriate interfaces available to permit the operator to connect a lap top computer to the island key reader to download transactions and upload vehicle and personnel lists, as well as providing local diagnostic capabilities.
- 6.0 **DESIGN.** The equipment should be designed in a modular manner to permit replacement of components by non-technical personnel. It shall be designed for operation by non-technical personnel with limited computer experience.
- 6.1 **Operability.** The equipment shall be simple to operate and supplied with operating instructions. The computer and data collection/download interface shall require a minimum of operating instructions and require little or no prior computer operating experience.
- 6.2 **Maintainability.** Suitable clearance and access shall be provided to all maintainable points. The system shall be of modular construction and have circuit boards/components that are replaceable by the user. If available, the bidder should provide documentation from an outside source indicating the time required for replacing components. It is expected that replacement of circuit boards/wiring harnesses should take less than ten minutes. If the island key reader is accessed by a modem, the unit shall have the capability of the user plugging in a telephone and

talking directly to factory technicians who can assist in diagnostics and repair while working on the key reader.

- 6.3 **Environment.** The vehicle operator interface with the equipment will be outdoors and exposed to the elements. Thus, the fuel island unit must have an operating range of -60 degrees F to +140 degrees F and withstand rain, snow, and blowing sand. The system shall have been tested by an independent environmental testing organization to provide outside affirmation of environmental limits.
  - 6.4 **Services.** This equipment shall be designed to operate from 120 volt AC, 60 Hz single phase power.
  - 6.5 **Safety.** The equipment shall be provided with all necessary safety devices and guards to protect the operator. All primary operator control buttons, switches, etc. shall be grouped and mounted in a location affording the operator convenient access to the controls. Essential safety operating instructions shall identify safety and health hazards associated with the equipment and the procedures and practices necessary for safe operations. Placards shall be provided to warn operator or maintenance personnel of hazardous areas which could cause injury. Installation manuals and maintenance manuals shall include all necessary safety and hazardous conditions warnings.
- 7.0 **TRAINING.** The supplier shall provide on-site training of personnel in the functions of operation, maintenance, and repair as they apply to each specific item of equipment. Supervisors and operators at each refueling site will be provided training in the operation of the island fuel management units. Training on software may be conducted on-site or via a remotely located computer on line with the central controller (PC) operator.

## 8.0 MAINTENANCE AND SPARE PARTS.

- 8.1 **Spare parts.** The manufacturer shall agree to sell spare parts for the operating life of the equipment, estimated to be 10 years. The vendor shall provide any documentation that supports the assertion that spare parts will be available for 10 years.
- 8.2 **Maintenance Agreement.** The manufacturer shall agree to provide system maintenance on a yearly renewable contract for the life of the system. The manufacturer, under a maintenance agreement, would be responsible for providing all repair parts and telephonic assistance. The procuring agency may or may not accept the terms of the maintenance agreement and may or may not renew the maintenance contract on an annual basis.

**9.0 WARRANTY.** The Manufacturer shall warrant parts for the equipment supplied for a period of one (1) year. Read/write keys shall be warranted for five (5) years. All replacement parts shall be provided by the Manufacturer for this one (1) year period, except those required by acts of nature (i.e., flood, lightning, etc.). All telephonic support labor for diagnostics and assistance shall also be provided.

## **10.0 BID REQUIREMENTS**

- 10.1 The bidders are requested to reply to each paragraph number in this specification by completing the form accompany this solicitation. Each paragraph will be answered "yes" or "no" or comments provided to indicate compliance with the specification.
- 10.2 Quotations shall include all descriptive literature, drawings and specifications required to make a complete evaluation and/or appraisal of the quotation with respect to the requirements of the buyer.
- 10.3 The bidder shall state the time required between the seller's receipt of purchase order and the buyer's receipt of the product.



**THIS PAGE SHOULD BE DESIGNED TO FIT THE USER'S NEEDS.**

**11.0 Required Equipment, Installation and Training.** Items required for this bid are listed below and the total price should include all items.

Either (1) the buyer will provide all site preparation, to include the installation of conduit, an electrical panel for power and a voice grade telephone line, or (2) all site preparation shall be completed by the vendor, or (3) some description of the what site preparation is required.

The following equipment is required:

Central Controller:

- One (1) Set Software
- (Number) Keys
- One (1) Key encoder

Site Number 1:

- Master Island key reader
- Total number of hoses for master unit
- Satellite island key reader (if required)
- Total number of hoses for satellite
- Gate opener (if required)
- Tank monitor interface (if required)
- On-site printer (if required)

Site Number 2:

- Master Island key reader
- Total number of hoses for master unit
- Satellite island key reader (if required)
- Total number of hoses for satellite
- Tank monitor interface (if required)
- On-site printer (if required)

Additional Sites (if required)  
 Same information as required for Site 1 or 2

### Vendor's Compliance with Specification

Paragraph Number	Complies		Exception
	Yes	No	
1.0	_____	_____	_____
2.0	_____	_____	_____
3.1	_____	_____	_____
3.2	_____	_____	_____
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# TLS-300C

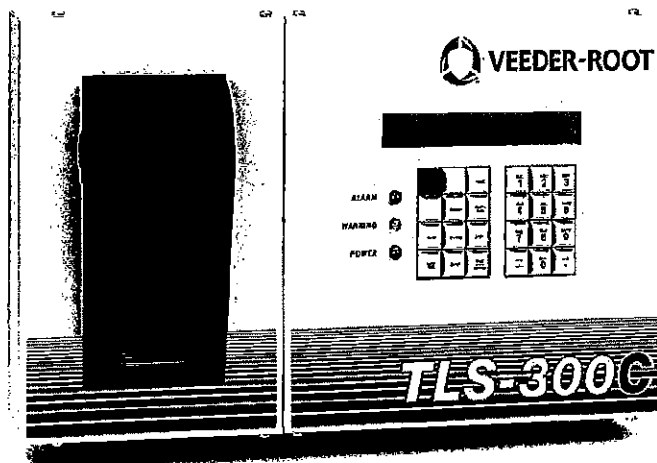
Designed as the highest quality  
and most cost effective tank  
monitoring system.

Designed to provide the highest quality and most cost effective tank monitoring system for non-retail, commercial, industrial, and municipal tank owners, the new TLS-300C 2 tank configurable console offers the ultimate flexibility in one to two tank inventory control and in-tank leak detection systems.

Veeder-Root's TLS-300C tank monitoring system can be configured to provide in-tank leak detection for underground storage tank (UST) applications with either one to two leak detection series 8463 0.1 GPH Mag Plus Magnetostrictive Probes, or one to two 8463 Mag Plus Magnetostrictive Inventory Measurement Probes to support Aboveground Storage Tank (AST) applications.

Additional configurable options are designed to provide printed documentation and remote monitoring flexibility. The optional integral printer provides fast, quiet continuous printouts. The optional SiteFax option can be programmed to transmit leak detection and inventory reports, as well as real-time alarm reporting to fax machines or other communications devices.

Standard features include back-up generator capabilities, as well as capacity to accept up to eight Veeder-Root Series 7943 float-switch sensors. This high quality, low cost family of sensors includes interstitial leak sensors for steel and fiberglass tanks, piping sump sensors, hydrostatic sensors, and discriminating dispenser pan and containment sump sensors.



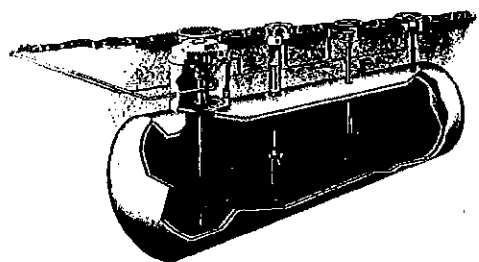
## Features

- System monitors up to two tanks
- RS-232 Communication Interface with Auxiliary Port provides two 25-pin D-connectors for data transmission to computers or point-of-sale terminals
- Automatic continuous leak sensing: tank interstitial space; piping sump
- Audible alarm and display indicate leak location
- In-tank warnings and alarms are activated for the following conditions: leak, overfill, low product, sudden loss, high water, delivery needed, test failure, tank test not performed
- Accepts up to eight interstitial / containment float sensors
- Interstitial and piping sump warnings and alarms are activated for the following conditions: fuel presence, low liquid, high liquid
- Alarm relays can trigger alarm/ security devices
- Two built-in inputs provide for solid-state or switch input from external devices
- Two built-in output relays provide for outputs to overfill alarms and external audible and visual warning devices
- Either relay can shut down the submersible if power to the monitor is lost or a leak is detected
- Emergency generator applications are selectable via programming
- One system handles a mix of standard and emergency generator tanks
- Records generator activity
- Complete inventory reports before and after generator operation

# Technology that simplifies inventory management and saves valuable time.

## Configurable Features

- Continuous Statistical Leak Detection for in-tank leak detection without tank shutdown
- Integral printer, which documents inventory leak detection, alarms and setup information
- SiteFax modem for remote management of leak detection and inventory alarms and reports
- One or two Veeder-Root Magnetostrictive Probes for 0.1 GPH in-tank leak detection with 4" float kit and 5" cable
- One or two Veeder-Root Inventory Only Probes for Inventory Control with 4" float kit and 5" cable



## Configurable Features

Console Form Number: 848590-521

Description: TLS-300C 0-2 Tank Configurable Console with Integral Printer

Console Form Number: 848590-511

Description: TLS-300C 0-2 Tank Configurable Console without Integral Printer

Software Enhancement Modules\*: 330161-001 330161-003

Description: Static In-Tank Testing CSLD

Optional Site Fax Modem: 331398-001

Description: Site Fax Modem Kit for TLS-300 Series Consoles

Optional Ethernet/IP Card: 330020-424

Description: Ethernet/IP Kit for TLS-300 Series Consoles

## The following probes and sensors are compatible with the TLS-300C Monitoring System:

FORM NO.	DESCRIPTION
847390-1XX	0.1 GPH Magnetostrictive Probe
847391-XXX	0.1 GPH Magnetostrictive Probe for Alternative Fuels
847390-3XX	Magnetostrictive Probe for Inventory Measurement
846390-1XX	0.1 GPH Mag Plus Magnetostrictive Probe
846391-1/4XX	0.1 GPH Mag Plus Magnetostrictive Probe for Alternative Fuels
846391-3/6XX	Mag Plus Magnetostrictive Probe for Inventory Management
847398-XXX	Retrofit Mag Plus Probe for standard Mag Probe
847399-XXX	Retrofit Mag Plus Probe for standard Mag Probe
794390-40X	Interstitial Sensor for Fiberglass Tanks
794390-420	Interstitial Sensor for Steel Tanks
794390-20X	Piping Sump Sensor
794380-301	Single-Point Hydrostatic Sensor
794380-302	Dual-Point Hydrostatic Sensor
794380-322	Discriminating Dispenser Pan Sensor
794380-352	Discriminating Containment Sump Sensor

Please refer to the Veeder-Root Price List for required probe and sensor lengths and corresponding 3-digit Form Number suffix.

For more information call

**1-888-561-7942**



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Telephone: 860-651-2700 • Fax: 860-651-2719 • [www.veeder.com](http://www.veeder.com)

VR 13668 P/N 0576047-052 Rev.D VR 4/2006 Printed in USA



Dresser Wayne, a business unit of Dresser, Inc., is a technology leader in the manufacture and supply of retail petroleum fuel dispensers, dispenser control systems, credit/debit card processing terminals, and point-of-sale systems. We have manufacturing facilities in the US, Brazil, Sweden and China. Wayne's innovative products are used in over 75 countries.

Your local contact:

Dresser Wayne • Dresser, Inc • Fleet Fueling Group

Heritage Executive Campus Suite 404, 1000 East Walnut Street, Perkasie, PA 18944 • Ph. (215) 257-1046 • Fax (215) 257-1790



**Wayne**

Worldwide Headquarters  
3814 Jarrett Way  
Austin, TX 78728  
Phone: 512.388.8311  
Fax: 512.388.8302  
www.wayne.com

Wayne Pignone  
Via Felice Matteucci, 2  
50127 Florence  
Italy  
Phone: +39 055 423 8597  
Fax: +39 055 423 2800

Wayne Brazil  
Estrada do Timbo  
126-Bonsucesso  
Rio de Janeiro, Brazil  
Phone: 55-21-2598-7711  
Fax: 55-21-2598-7860

Wayne China  
1221 Dong Lu Road  
Pudong, Shanghai 200135  
China  
Phone: 21-5899-3976  
Fax: 21-5899-0974

Wayne Sweden  
Limhamnsvägen 109  
Box 30049  
SE-200 61 Malmö  
Sweden  
Phone: +46 40 360500  
Fax: +46 40 150381



# Reliance™ Series Fleet Pumps & Dispensers

*A Reliable Solution for Fleet Fueling*







## Overview

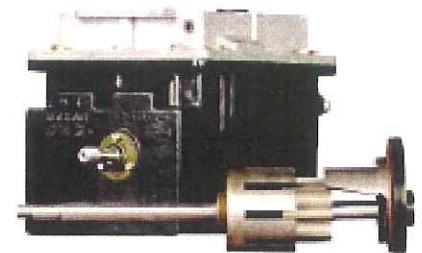
The Wayne Reliance G6200 Series incorporates **reliable, time-proven mechanical registers** into an **attractive modern cabinet**. The durable construction and electro-mechanical operation of this series enables it to withstand the harshest fleet environments. **Single AC power line requirements** make it easy to retrofit to any installation. The G6200 Series includes a host of standard features to ensure high performance and long life.



## Key Features & Benefits

- Field-proven components ensure dependable operation
  - Reliable mechanical registers require low maintenance
  - **Gear-type pumping units** (suction models) withstand years of hard use
- Heavy gauge galvanized steel external panels with powder-coated finish provide superior weather and corrosion resistance
- **Heavy-duty one HP motors** (suction models) and **one-inch internal piping** deliver maximum flow performance
- Convenient hinged doors provide easy service access
- Single AC power line feed simplifies retrofitting existing installations
- Internal filters help ensure product purity
- All user controls **meet American Disabilities Act (ADA) requirements**

*Accuracy and reliability are the foundation of the compact pumping unit*



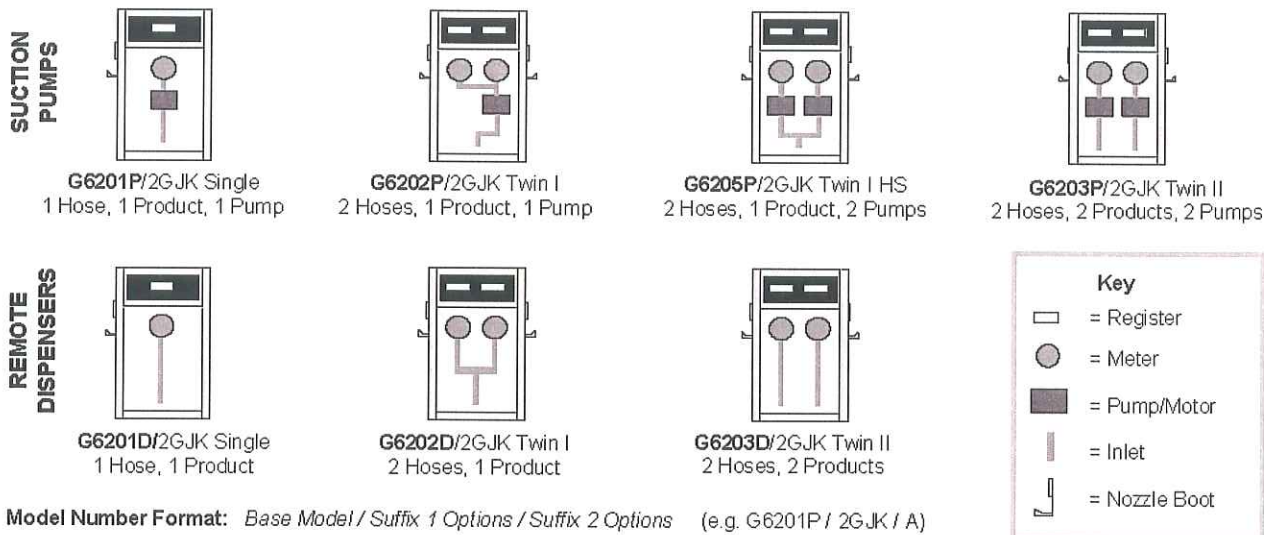
*Micro-accurate two-piston positive displacement meters are Weights & Measures sealable*

## Optional Features

- Pulsers allow connection to all popular fuel control systems
- Stainless steel panels provide maximum corrosion protection for harsh environments
- Internal hose retractor and hose mast options help keep hoses out of the fueling lane
- Lights enhance register viewing for evening and night operation



## G6200 Models



**Model Number Format:** Base Model / Suffix 1 Options / Suffix 2 Options (e.g. G6201P / 2GJK / A)

All models include the following options as standard: 1" piping [2], internal filter [G], AC j-box [J], and hose hanger [K]. Option suffixes are noted with the options below in [. A "I/" (e.g. [I/A]) indicates a suffix 2 option.

## G6200 Specifications

**Performance:** Up to 22 GPM (83 lpm) per hose (exception: Twin I suction is 22 GPM per one hose operating, or 12 GPM (45 lpm) per hose with both operating).

**Note:** Specified rates are maximum test rates. Actual flow rates will depend upon the installation conditions, dispenser accessories, and for remote dispensers, size of the submersible pump.

**Register:** Non-computer mechanical register with power reset with interlock. **Displays on both sides of cabinet.** Maximum 999.9 gallons.

**Totalizer:** Non-resettable totalizer up to 9999999.9. Displays on front dial face.

**Meter:** Reliable, micro-accurate 2-piston positive displacement design. Weights & Measures sealable.

**Pumping Unit\*:** Positive displacement, self-priming, gear-type pumping unit with integral centrifugal air separator and adjustable bypass valve. Suction strainers at inlet connection.

**Motor\*:** 1-HP continuous duty with thermal overload protection. Adjustable V-link belt connects to pump pulley.

**Electrical:** 115VAC, 60Hz operation. Motors – 115/230VAC 50/60Hz.

**Internal Filter [G]:** Adapter with ten-micron filter helps ensure product purity.

**Inlet Connection:** 1½" (3.8 cm).

**Discharge:** 1" (2.5 cm) with ¾" reducing bushing.

**Solenoid Valve:** 1" (2.5 cm) two-stage valve. Standard on remote dispensers and Twin I suction. Also provides slow flow control for fuel control systems.

**Satellite Connection:** Discharge assembly includes internal port for satellite piping connection on remote dispensers.

**Cabinet Finish:** Extremely durable powder-coated finish gives outstanding appearance and toughness. Sides, top, bezel, and base painted silver. Doors painted blue (optional black, green, red, silver, or white). Black register face.

**Cabinet Construction:** All panels are fabricated from heavy gauge galvanized steel. 14-gauge side panels and 18-gauge doors. Top of bezel provides space for product id decals (specify w/ order).

**Nozzle Boot and Hook:** Fits standard U.L. interchangeable automatic nozzles. Hook may be adjusted for an OPW 11-VF long spout balanced vapor recovery nozzle.

**Hose Hanger [K]:** Keeps hose off the island when not in use.

**Actual Dimensions:**  
32.25" W x 19.38" D x 54.38" H  
(81.9cm W x 49.2cm D x 138.1cm H)

**Approvals:** C-UL-US Listed. Sealable by U.S. Weights & Measures for the resale of fuel with contracted periodic billing of the fuel dispensed.

## Options

**Pulsers:** Transmit electrical pulses for each register revolution for connection to fuel control systems. 10:1 [7A] and 100:1 [7B] ratio options available.

**Light [I/A]:** Illuminates register faces and backlights the translucent product id panels that are included with the light option. One bulb per side.

**External Filter Kits\*:** Make filter visible as maintenance reminder (p/n 889921-001).

**Stainless Steel Panels:** Ideal for very corrosive environments. All exterior panels [I/S] or all panels except painted galvanized doors [I/S1].

**Liter Measure [8]:** Computes in liters.

**Electrical Options:** 230VAC 50/60 Hz. operation [Z]. For light option @ 50 Hz, also add [I/C]. For 380VAC 50/60Hz motor, also add [I/G].

**Other Options:** Internal hose retractor [I/H], hose mast kit\* [I/J], manual reset [M], hand crank kit\* [3], reversed accumulative totalizer [I/F], inlet check valve kit\* [I/M], & solenoid valves [I/W1] on suction models.

\*Note: Applies to suction models only

\*Note: Kits require field assembly



# Wayne<sup>®</sup> Reliance G6200 Series Fleet Pumps and Dispensers

The G6200 Series incorporates reliable, time-proven mechanical registers into an attractive modern cabinet. The durable construction and electro-mechanical operation of this series enables it to withstand the harshest fleet environments. Single AC power line requirements make it easy to adapt to any installation. The G6200 Series includes a host of standard features to ensure high performance and long life.

## Standard Features

- Reliable, time-proven mechanical registers housed in a modern cabinet design
- Micro-accurate two-piston positive displacement meter – Weights & Measures sealable
- Dependable, field-proven gear type pumping unit (suction pump models)
- Heavy duty 1 HP motors (suction pump models)
- Internal filter to help ensure product purity
- One-inch internal piping for maximum flow performance
- Corrosion-resistant galvaneal exterior panels
- Tough 14-gauge side panels and 18-gauge doors
- Long-lasting powder-coated finish
- Convenient hinged door with lock for security
- All user controls meet American Disabilities Act (ADA) requirements



## Optional Features

- Pulser for fuel control systems
- Lights with translucent product id panels
- External filters
- Stainless steel panels
- Internal hose retractor
- Hose mast
- Liter measure

## G6200 Models

Model Number	Type	Hoses	Products	Pumps	Motors	Solenoid Valves
<b>Suction Pumps</b>						
<b>G6201P/2GJK</b>	Single	1	1	1	(1) 1 HP	Option
<b>G6202P/2GJK</b>	Twin I	2	1	1	(1) 1 HP	1" (2.5 cm)
<b>G6205P/2GJK</b>	Twin I HS	2	1	2	(2) 1 HP	Option
<b>G6203P/2GJK</b>	Twin II	2	2	2	(2) 1 HP	Option
<b>Remote Dispensers</b>						
<b>G6201D/2GJK</b>	Single	1	1	N/A	N/A	1" (2.5 cm)
<b>G6202D/2GJK</b>	Twin I	2	1	N/A	N/A	1" (2.5 cm)
<b>G6203D/2GJK</b>	Twin II	2	2	N/A	N/A	1" (2.5 cm)

**Model Designation Format:** Base Model / Suffix 1 Options // Suffix 2 Options (e.g. G6201P / 2GJK // A)

Base model is in bold in the above chart. All models include the following options as standard: 1" piping [2], internal filter [G], AC j-box [J], and hose hanger [K]. Option suffixes are noted with the options below in [ ]. A "/" (e.g. [//A]) indicates it follows the "/" in the model number.

## G6200 Specifications

**Performance:** Up to 22 GPM (83 lpm) per hose (exception: Twin I suction is 22 GPM per one hose operating, or 12 GPM (45 lpm) per hose with both operating).

**Note:** Specified rates are maximum test rates. Actual flow rates will depend upon the installation conditions, dispenser accessories, and for remote dispensers, the size of the submersible pump.

**Register:** Non-computer mechanical register with power reset interlock. Displays on both sides of cabinet. Maximum 999.9 gallons.

**Totalizer:** Non-resettable totalizer up to 9999999.9. Displays on front dial face.

**Meter:** Reliable, micro-accurate 2-piston positive displacement design. Patented differential displacement principle provides proportional calibration.

**Pumping Unit\*:** Positive displacement, self-priming, gear type pumping unit with integral centrifugal air separator and adjustable bypass valve. Suction strainers at inlet connection. Designed for quiet, vibration-free operation.

**Motor\*:** 1-HP continuous duty with thermal overload protection. Adjustable V-link belt connects to pump pulley.

**Electrical:** 115VAC, 60Hz operation. Motors – 115/230VAC 50/60Hz.

**Internal Filter [G]:** Adapter with ten-micron filter helps ensure product purity.

**Inlet Connection:** 1½" (3.8 cm).

**Discharge:** 1" (2.5 cm) with ¾" reducer bushing.

**Solenoid Valve:** 1" (2.5 cm) two-stage valve. Standard on remote dispensers and Twin I. Also provides slow flow control for fuel control systems.

**Satellite Piping:** Discharge assembly includes internal port for satellite piping connection on remote dispensers.

**Cabinet Finish:** Extremely durable powder-coated finish gives outstanding appearance and toughness. Sides, top, bezel, and base painted silver. Doors painted blue (door options: green, red, silver, or white). Black register face.

**Cabinet Construction:** All panels are fabricated from heavy gauge galvanneal steel for superior weather and corrosion resistance. Top of bezel provides space for product id decals (specify w/ order).

**Nozzle Boot and Hook:** Fits standard U.L. interchangeable automatic nozzles. Hook may be adjusted for long spout balance vapor recovery nozzles.

**Hose Hanger [K]:** Keeps hose off the island when not in use.

**Actual Dimensions:**  
32.25" W x 19.38" D x 54.38" H  
(81.9cm W x 49.2cm D x 138.1cm H)

**Approvals:** UL & CUL Listed. Sealable by U.S. Weights & Measures for the resale of fuel with contracted periodic billing of the fuel dispensed.

### OPTIONS

**Pulsers:** Transmit electrical pulses for each register revolution for connection to fuel control systems. 10:1 [7A] and 100:1 [7B] ratio options available.

**Light [//A]:** Illuminates register faces and backlights the translucent product id panels that are included with the light option. One bulb per side.

**External Filter Kits\*:** Make filter visible as maintenance reminder.

**Stainless Steel Panels:** Ideal for very corrosive environments. Sides and top only or sides, top, and doors.

**Liter Measure [8]:** Computes in liters.

**Electrical Options:** 230VAC 50/60 Hz. operation [Z]. For light option @ 50 Hz, also add [//C]. For 380VAC 50/60Hz motor, also add [//G].

**Other Options:** Internal hose retractor [//H], hose mast kit\* [//J], manual reset [M], hand crank kit\* [3], reversed accumulative totalizer [//F], inlet check valve kit\* [//M], & solenoid valves [//W1] on suction models.

\*Note: Applies to suction models only

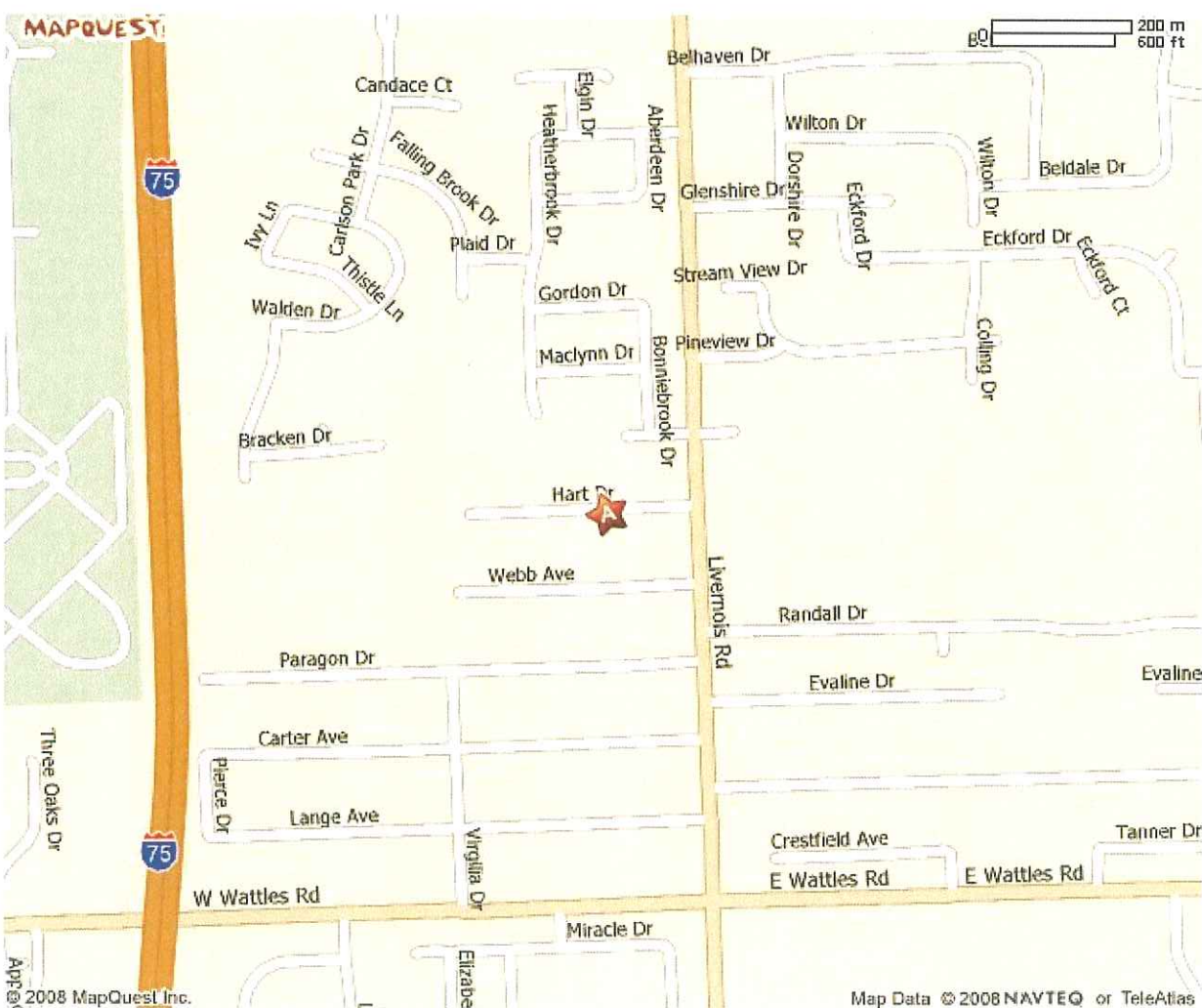
\*Note: Kits require field assembly



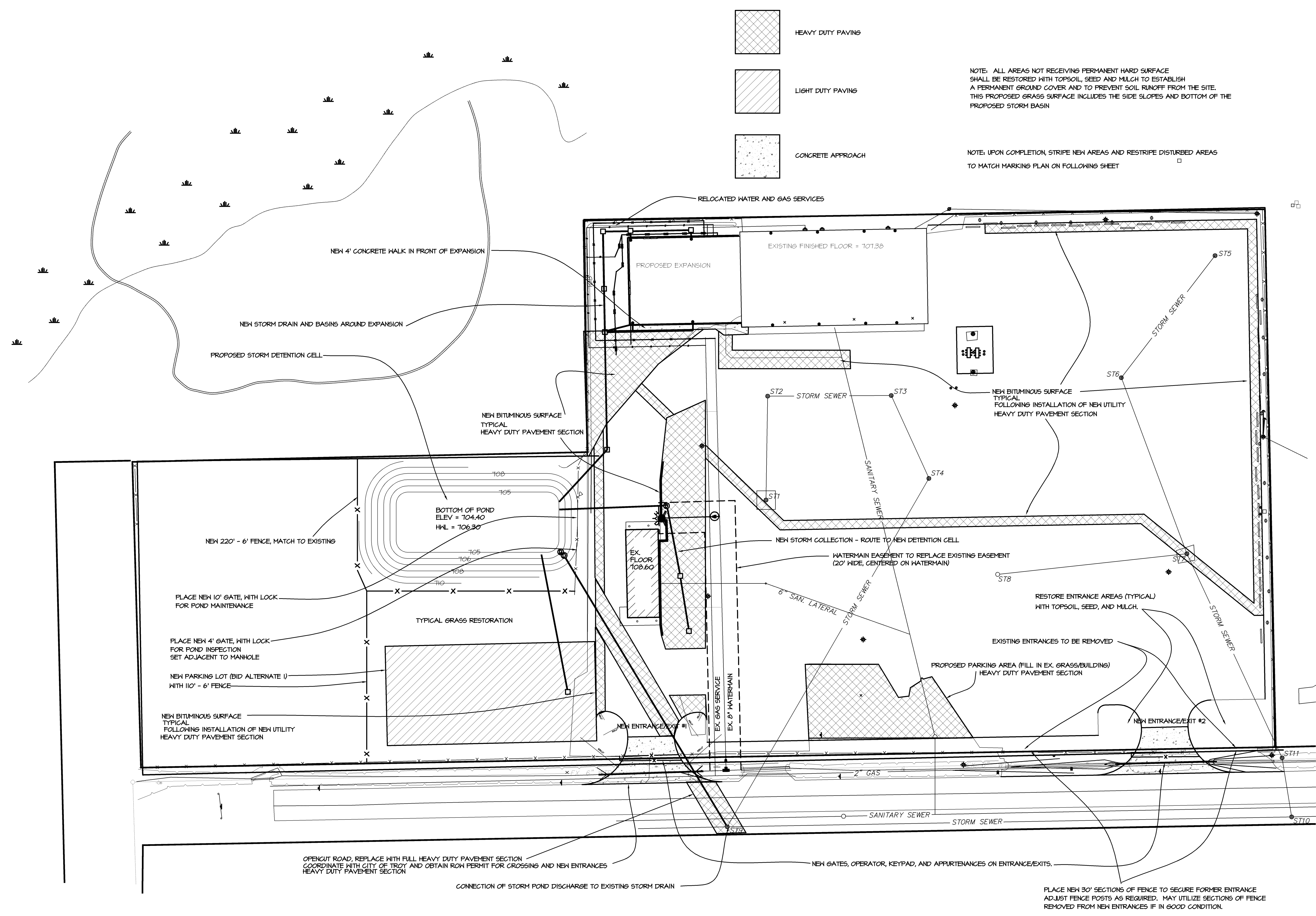


**MAPQUEST**

Livernois = Main Street in Royal Oak, MI

**A: 120 Hart Dr, Troy, MI 48098-4662**

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**1 PROPOSED SITE LAYOUT**  
SCALE 1" = 30'

ADDITIONS &  
REMODELING  
**TROY**  
SCHOOL DISTRICT

**TROY**  
TRANSPORTATION  
BUILDING

REVISIONS/REVIEW	DATE
ISSUED FOR BIDS	03/23/07
CITY REVIEW COMMENTS	06/08/07
CITY REVIEW COMMENTS-2	07/01/07

KEY PLAN

JOB NO. **2695.02**  NORTH

SHEET TITLE  
**PROPOSED SITE LAYOUT**

SHEET NO. **C4.0** DWG NAME

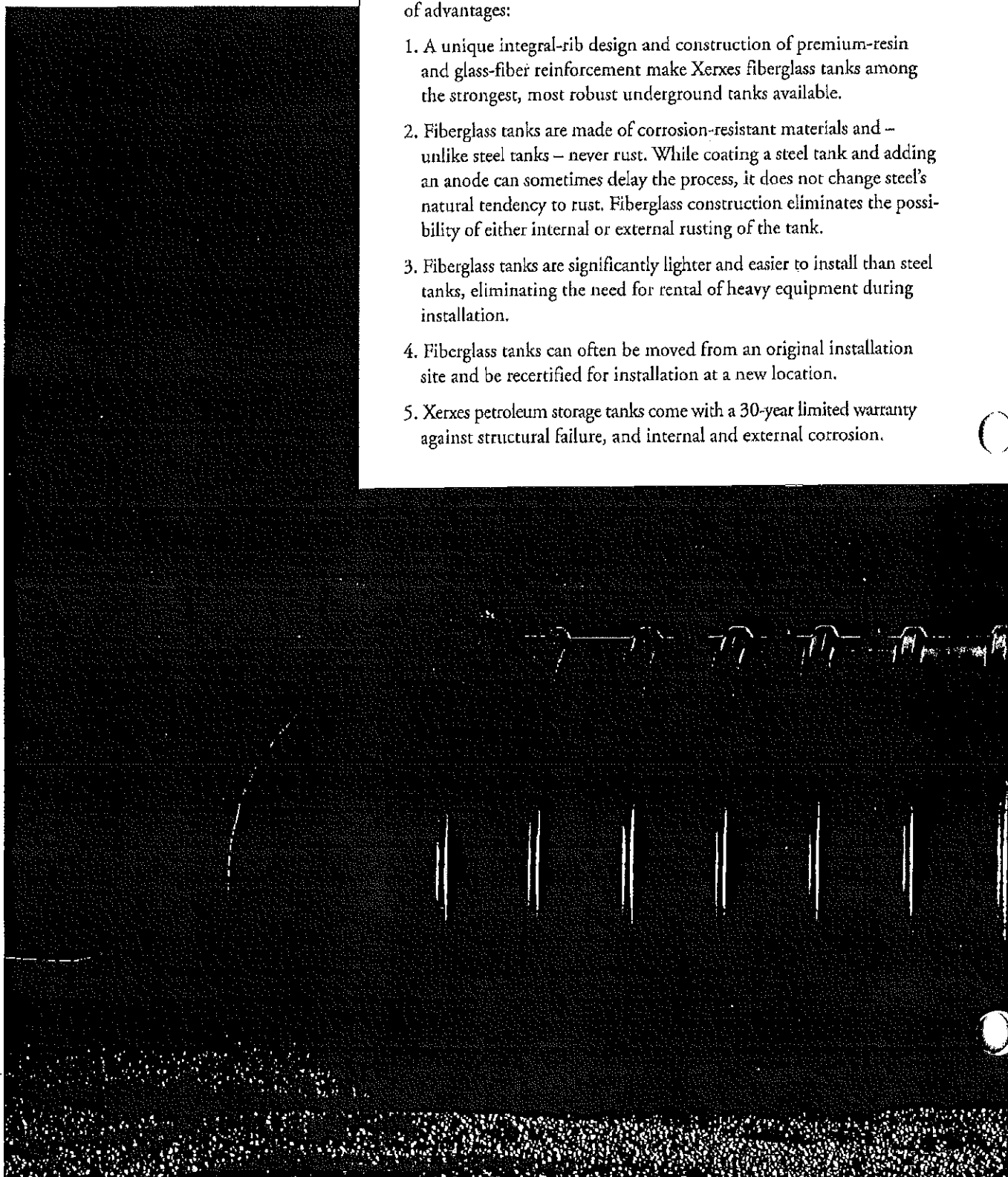
© KINGSOTT ASSOCIATES INC. KALAMAZOO, MICHIGAN

# The Xerxes double-wall

## Why Xerxes fiberglass tanks?

Xerxes fiberglass underground storage tanks (USTs) offer a number of advantages:

1. A unique integral-rib design and construction of premium-resin and glass-fiber reinforcement make Xerxes fiberglass tanks among the strongest, most robust underground tanks available.
2. Fiberglass tanks are made of corrosion-resistant materials and – unlike steel tanks – never rust. While coating a steel tank and adding an anode can sometimes delay the process, it does not change steel's natural tendency to rust. Fiberglass construction eliminates the possibility of either internal or external rusting of the tank.
3. Fiberglass tanks are significantly lighter and easier to install than steel tanks, eliminating the need for rental of heavy equipment during installation.
4. Fiberglass tanks can often be moved from an original installation site and be recertified for installation at a new location.
5. Xerxes petroleum storage tanks come with a 30-year limited warranty against structural failure, and internal and external corrosion.

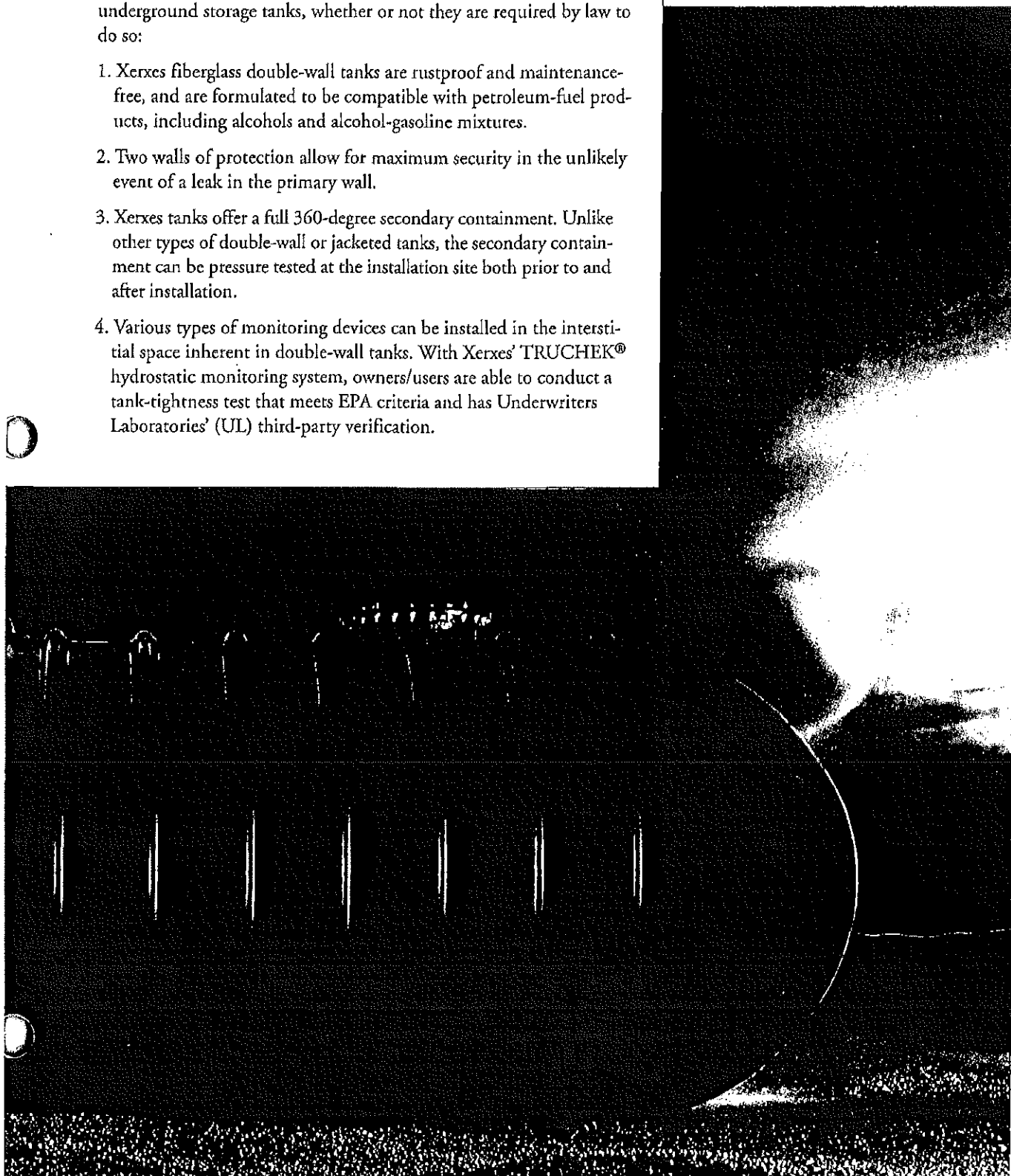


# Double-wall tank is the right choice.

## Why double-wall tanks?

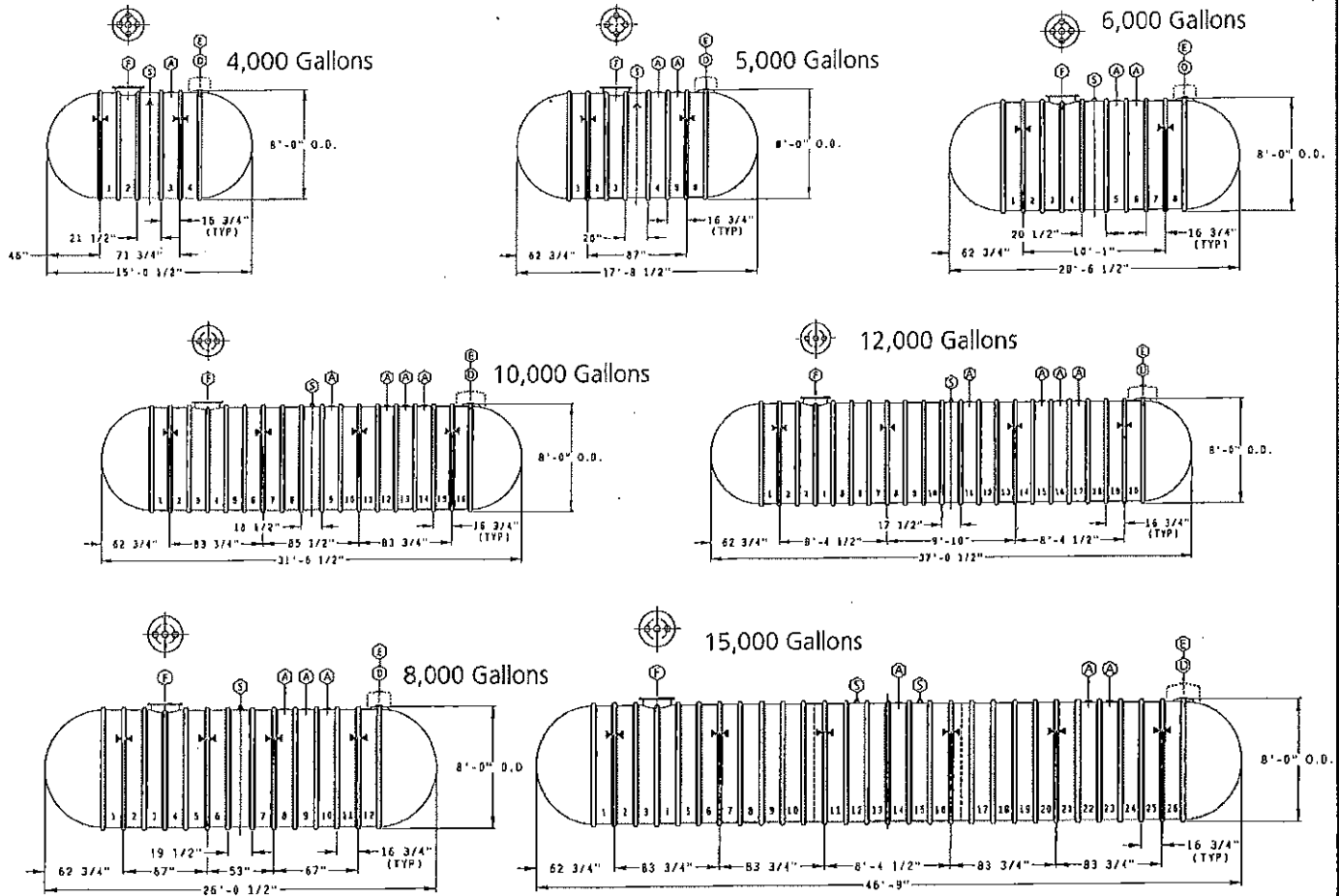
Several factors lead companies and consumers to choose double-wall underground storage tanks, whether or not they are required by law to do so:

1. Xerxes fiberglass double-wall tanks are rustproof and maintenance-free, and are formulated to be compatible with petroleum-fuel products, including alcohols and alcohol-gasoline mixtures.
2. Two walls of protection allow for maximum security in the unlikely event of a leak in the primary wall.
3. Xerxes tanks offer a full 360-degree secondary containment. Unlike other types of double-wall or jacketed tanks, the secondary containment can be pressure tested at the installation site both prior to and after installation.
4. Various types of monitoring devices can be installed in the interstitial space inherent in double-wall tanks. With Xerxes' TRUCHEK® hydrostatic monitoring system, owners/users are able to conduct a tank-tightness test that meets EPA criteria and has Underwriters Laboratories' (UL) third-party verification.

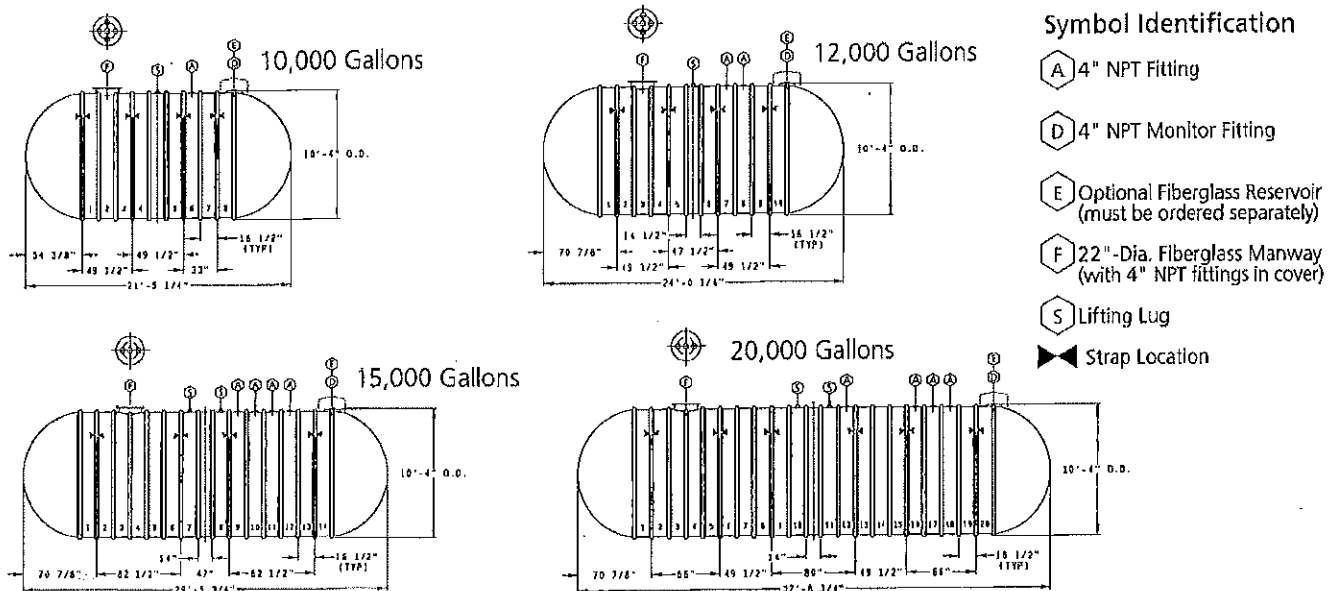


# Dimensional Data – Standard Double-Wall Tanks

## 8'-Diameter Tanks



## 10'-Diameter Tanks

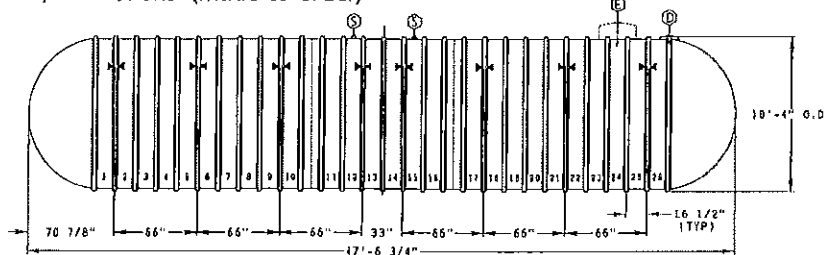




# Dimensional Data – Made-To-Order Double-Wall Tanks

## 10'-Diameter Tanks

25,000 Gallons (made-to-order)



### Symbol Identification

(D) 4" NPT Monitor Fitting

(E) Optional Fiberglass Reservoir  
(must be ordered separately)

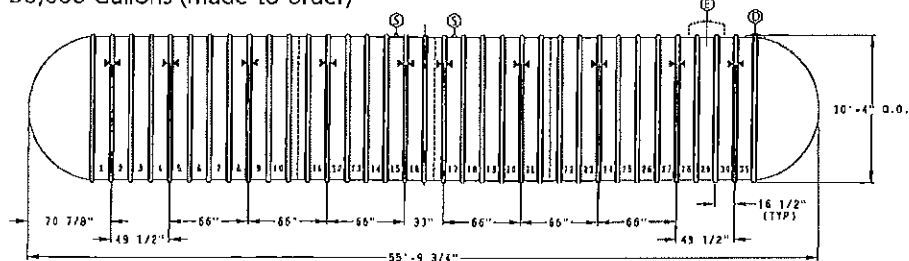
(S) Lifting Lug

△ Strap Location

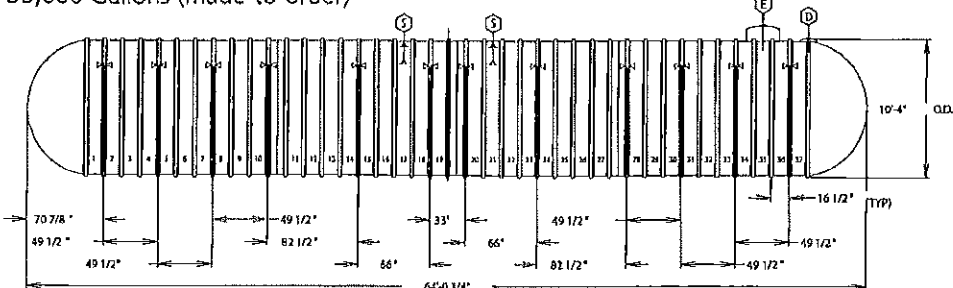
### Note:

These tanks are made-to-order only, and every manway and fitting location is to be specified.

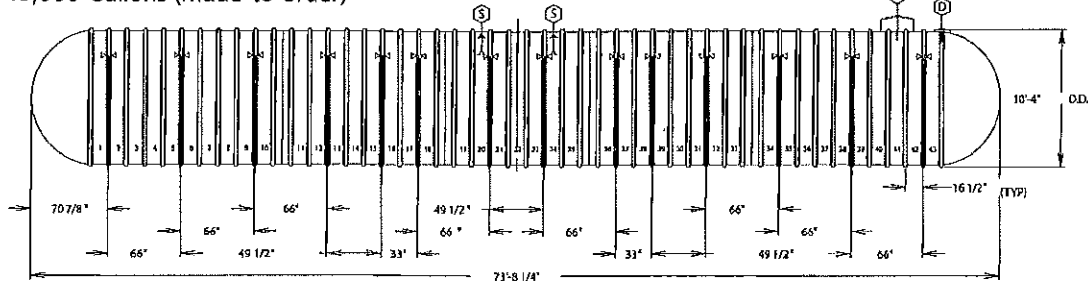
30,000 Gallons (made-to-order)



35,000 Gallons (made-to-order)



40,000 Gallons (made-to-order)



## Standard Tank Data / Made-To-Order (MTO) Tank Data

	Nominal capacity (gallons)	Actual capacity* (gallons)	Nominal diameter (w/o accessories)	Overall length	Shipping weight (pounds)	Weight with monitoring fluid (pounds)	Interstitial volume (gallons)	Number of 22" manways	Number & size of fittings	Number of monitor fittings	Number of straps (if required)
Standard Tanks	600	602	4'	7'-3 1/2"	800	1,000	8	1	4-4"	1	2
	1,000	1,009	4'	11'-7 1/2"	1,100	1,400	10	1	5-4"	1	2
	2,500	2,319	6'	13'-5 3/4"	1,800	2,400	48	1	6-4"	1	2
	3,000	2,904	6'	16'-4 1/4"	2,100	2,800	59	1	6-4"	1	2
	4,000	3,782	6'	20'-8"	2,500	3,500	76	1	6-4"	1	2
	5,000	4,952	6'	26'-5"	3,100	4,300	93	1	7-4"	1	4
	6,000	5,829	6'	30'-8 3/4"	3,600	4,900	110	1	7-4"	1	4
	4,000	4,156	8'	15'-0 1/2"	2,200	3,100	76	1	6-4"	1	2
	5,000	5,049	8'	17'-8 1/2"	2,600	3,700	95	1	6-4"	1	2
	6,000	5,998	8'	20'-6 1/2"	2,900	4,300	114	1	7-4"	1	2
	8,000	7,841	8'	26'-0 1/2"	3,600	5,400	152	1	6-4"	1	4
	10,000	9,684	8'	31'-6 1/2"	4,300	6,600	189	1	7-4"	1	4
	12,000	11,527	8'	37'-0 1/2"	5,000	7,700	227	1	7-4"	1	4
	15,000	14,781	8'	46'-9"	6,400	9,800	284	1	6-4"	1	6
	10,000	10,369	10'	21'-5 1/4"	4,500	6,200	144	1	6-4"	1	4
	12,000	11,849	10'	24'-0 1/4"	5,000	7,000	167	1	7-4"	1	4
	15,000	14,976	10'	29'-5 3/4"	6,100	8,600	213	1	7-4"	1	4
	20,000	19,703	10'	37'-8 3/4"	7,700	11,000	280	1	7-4"	1	6
Made-to-order tanks	25,000	25,336	10'	47'-6 3/4"	10,000	14,300	325	MTO	MTO	1	8
	30,000	30,063	10'	55'-9 3/4"	11,900	17,000	375	MTO	MTO	1	10
	35,000	34,790	10'	64'-0 3/4"	13,600	19,600	498	MTO	MTO	1	12
	40,000	40,304	10'	73'-8 1/4"	16,000	23,000	579	MTO	MTO	1	14

\* Use of overfill protection such as flapper valves or ball-float valves will reduce the actual capacity of the tank.

## TRUCHEK® Monitoring System – Double-wall protection at its best

To enhance the double-wall protection of a Xerxes double-wall tank, Xerxes offers the option of TRUCHEK®, a hydrostatic tank-monitoring system for double-wall tanks. TRUCHEK is an easy, precise and reliable method for providing continuous leak detection and also for performing a tank-tightness test. Like the tanks that Xerxes manufactures, TRUCHEK provides a long, successful record of performance. For well over a decade, this system has successfully monitored thousands of tanks in many different types of installations. Changing regulations in some markets require that double-wall tanks have continuous leak

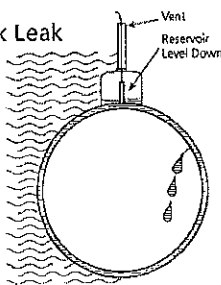
detection using a constant vacuum, air pressure or hydrostatic pressure in the interstice of a double-wall tank. A Xerxes double-wall tank with TRUCHEK's continuous leak detection is the ideal solution for complying with these strict new requirements. While being highly effective, TRUCHEK is also simple and trouble-free in both design and operation. With TRUCHEK, simple monitoring of the fluid level inside the reservoir of a Xerxes double-wall tank is all that is necessary. (See the Xerxes TRUCHEK brochure for more information.)

## Here's how TRUCHEK works: (See drawings.)

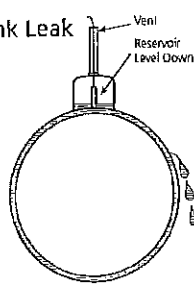
When you order a Xerxes double-wall tank with the TRUCHEK option, the interstice between the two tank walls is filled at the factory with a monitoring fluid. The monitoring fluid also partially fills a reservoir on the top of the tank. This creates a hydro-

static pressure that enables the operator to monitor the walls of both the primary tank and the secondary tank. An electronic reservoir-monitoring probe alarms when the fluid level either falls below or rises above the acceptable level within the reservoir.

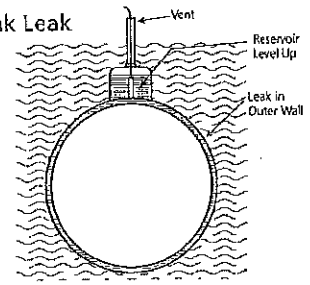
Primary-Tank Leak  
in Wet Hole  
or Dry Hole



Secondary-Tank Leak  
in Dry Hole



Secondary-Tank Leak  
in Wet Hole



# Guide Specifications – Double-Wall FRP Tanks for Fuel Storage

## Short form:

The contractor shall provide a double-wall fiberglass reinforced plastic (FRP) Underwriters Laboratories-labeled underground storage tank as shown on the drawings. The tank size, fittings and accessories shall be as shown on the drawings. The fiberglass tank shall be manufactured by Xerxes Corporation.

The tank shall be tested and installed according to the Xerxes Installation Manual and Operating Guidelines for Single-Wall and Double-Wall Fiberglass Underground Storage Tanks in effect at time of installation.

## Long form:

### Part I: General

#### 1.01 Quality Assurance

##### A. Acceptable Manufacturer: Xerxes Corporation

##### B. Governing Standards, as applicable:

1. Underwriters Laboratories (UL) Standard for Safety 1316, File MH 9061 for storage of flammable liquids. A UL label shall be attached to each tank.
2. National Fire Protection Association (NFPA) Standards:  
NFPA 30: Flammable and Combustible Liquids Code  
NFPA 30A: Automotive and Marine Service Station Code  
NFPA 31: Installation of Oil-Burning Equipment.
3. City of New York Department of Buildings M.E.A., Division #161-89-M.
4. Los Angeles Fire Department

### Part II: Products

#### 2.01 Double-Wall Fiberglass Reinforced Plastic (FRP) Underground Storage Tanks:

##### A. Loading Conditions – Tank shall meet the following design criteria:

1. Internal Load – Tank shall withstand a 5-psig air-pressure test with 5:1 safety factor. Contractor shall individually test tanks for leakage prior to installation. Maximum test pressure is 5 psig.
2. Vacuum Test – To verify structural integrity, every standard 10'-diameter tank and smaller shall be vacuum tested by the manufacturer at the factory to 11.5" of mercury.
3. Surface Loads – Tank shall withstand surface H-20 axle loads when properly installed according to manufacturer's current Installation Manual and Operating Guidelines.
4. External Hydrostatic Pressure – Tank shall be capable of being buried in ground with 7' of overburden over the top of the tank; the hole fully flooded and a safety factor of 5:1 against general buckling.
5. Tank shall support accessory equipment – such as heating coils, drop tubes, submersible pumps and ladders – when properly installed.

##### B. Product Storage:

1. Tank shall be capable of storing petroleum products with specific gravity up to 1.1.
2. Tank shall be vented to atmospheric pressure.
3. Tank shall be capable of storing products identified in the manufacturer's current standard limited warranty.

##### C. Materials:

1. Tank shall be manufactured with 100% resin and glass-fiber reinforcement. No sand fillers.

##### D. Tank Dimensions (Refer to Xerxes literature on gallonage.):

1. Tank shall have nominal capacity of \_\_\_\_\_ gallons.
2. Tank shall have nominal outside diameter of \_\_\_\_\_ feet.

##### E. Interstitial Space

1. Tank shall have a space between the primary and secondary walls to allow for the free flow and containment of leaked product from the primary tank. The space also allows the insertion of a monitoring device through a monitoring fitting.

#### 2.02 Accessories

##### A. Optional Anchor Straps

1. Straps shall be FRP anchor straps as supplied by tank manufacturer.
2. Number and location of straps shall be specified in current literature by tank manufacturer.

##### B. Manways

1. All manways shall be flanged and 22" I.D., complete with UL-listed gaskets, bolts and covers. (30" and 36" I.D. manways are also available on certain larger tanks.)
2. Location is shown on tank drawings.
3. Optional manway extensions shall be FRP and 24" long.

##### C. Optional Fill Tubes

1. Fill tubes shall be FRP, 4" in diameter, with a 6" x 4" double-tapped reducer bushing, and include a 6" NPT fitting. Tubes shall terminate a minimum of 4" from the bottom of tank (a minimum of 6" for a 12'-diameter tank).

##### D. Gauge Plates

1. Gauge plates shall be installed under each service fitting and manway opening.

##### E. Optional Heating Coils

1. Optional heating coils shall be installed in a separate 22" manway and shall be as supplied by tank manufacturer.

##### F. Optional Ladders

1. Ladders shall be the standard ladder as supplied by tank manufacturer (aluminum, carbon steel or fiberglass).

##### G. NPT Threaded Fittings

1. All standard threaded fittings shall be half-couplings and shall be 4" or 6" in diameter. Reducers are to be used for smaller sizes where shown and provided by contractor.
2. Strength – NPT fittings shall withstand a minimum of 150 foot-pounds of torque and 1,000 foot-pounds of bending, both with a 2:1 safety factor.

##### H. Monitor Fittings

1. Each monitor fitting shall consist of a 4" NPT fitting on the tank. Tanks with a hydrostatic monitoring system do not have a monitor fitting.

### Part III: Testing and Installation

#### 3.01 Testing

- A. Tank shall be tested according to the Xerxes Installation Manual and Operating Guidelines for Single-Wall and Double-Wall Fiberglass Underground Storage Tanks in effect at time of installation.

#### 3.02 Installation

- A. Tank shall be installed according to the Xerxes Installation Manual and Operating Guidelines for Single-Wall and Double-Wall Fiberglass Underground Storage Tanks in effect at time of installation.
- B. Contractor shall be trained by the tank manufacturer, the state or other approved agency.

### Part IV: Warranty

#### 4.01 Warranty

- A. Warranty shall be manufacturer's standard limited warranty in effect at time of purchase.

# Limited Warranty

## Petroleum or Alcohol Fuels Storage for Double-Wall Underground Petroleum Storage Tanks with Resin Specified for Expanded Fuels

Xerxes Corporation ("Xerxes") warrants to ("Owner") that our double-wall underground storage tanks, if installed, used, and maintained in the United States in accordance with Xerxes' published specifications, installation instructions and operating guidelines, and all applicable laws and regulations:

- 1) Will not fail for a period of thirty (30) years from date of original delivery by Xerxes due to natural external corrosion.
- 2) Will not fail for a period of thirty (30) years from date of original delivery by Xerxes due to internal corrosion, provided the tank is used solely, with or without tank water bottoms, to store the following products at ambient temperature, or fuel oils at temperatures not to exceed 150° F:
  - a. gasoline, jet fuel, aviation gasolines, motor oils, motor vehicle waste oils, kerosene, diesel fuels, or fuel oils
  - b. alcohol, alcohol-gasoline blend, and oxygenated motor fuels
    1. ethanol and ethanol blends
      - 100% ethyl alcohol
      - gasohol (90% gasoline and 10% ethyl alcohol)
      - E85 (85% ethanol and 15% gasoline)
    2. methanol and methanol blends
      - 100% methyl alcohol
      - M85 (85% methanol and 15% gasoline)
      - Oxinol-50<sup>1</sup> waiver (90.5% gasoline and 9.5% Oxinol-50<sup>1</sup> comprised of a 4.75% methanol and 4.75% GTBA mixture)
      - Dupont EPA waiver (gasoline with 5% methanol and a minimum of 2.5% cosolvent – the blend may contain a maximum concentration of up to 3.7%, by weight, oxygen in the final fuel)
    3. other oxygenated fuels
      - gasoline with up to 20%, by volume, of methyl tertiary butyl ether (MTBE), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPB), tertiary amyl methyl ether (TAME), or tertiary amyl ethyl ether (TAEE)

- 3) Will not fail for a period of thirty (30) years from date of original delivery by Xerxes due to structural failure (defined as spontaneous breaking or collapse caused by material defects in materials or workmanship).

- 4) Will meet Xerxes' published specifications and will be free from material defects in materials and workmanship for a period of one (1) year following the date of original delivery by Xerxes.

If any tank is to be removed from an installation, moved to Owner's new location and is intended for active service at the new location, the tank must be recertified by Xerxes in order to maintain the warranty as originally extended.

Xerxes warrants to Owner that all Xerxes manufactured tank accessories, if installed, used and maintained in the United States in accordance with Xerxes' published specifications, installation instructions and operating guidelines, and all applicable laws and regulations, will be free from material defects in materials and workmanship for a period of one (1) year following the date of original delivery by Xerxes.

The foregoing warranty does not extend to tanks or accessories ("Goods") damaged due to acts of God, war, terrorism, or failure of Goods caused, in whole or in part, by misuse, improper installation, storage, servicing, maintenance, or operation in excess of their rated capacity or contrary to their recommended use, whether intentional or otherwise, or any other cause or damage of any kind not the fault of Xerxes. Xerxes only warrants repairs or alterations performed by Xerxes or its authorized contractors. Xerxes does not warrant any product, components or parts manufactured by others.

Owner's sole and exclusive remedy for breach of warranty is limited at Xerxes' option to: (a) repair of the defective tank or accessory, (b) delivery of a replacement tank or accessory, to the point of original delivery, or (c) refund of the original purchase price. A claimant must give Xerxes the opportunity to observe and inspect the tank and accessory prior to removal from the ground or the claim will be forever barred. All claims must be made in writing within one (1) year after tank and/or accessory failure or be forever barred. THE FOREGOING WARRANTY CONSTITUTES XERXES' EXCLUSIVE OBLIGATION AND XERXES MAKES NO OTHER WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, WITH RESPECT TO THE TANK, ACCESSORY OR ANY SERVICE, ADVICE, OR CONSULTATION, IF ANY, FURNISHED TO OWNER BY XERXES OR ITS REPRESENTATIVES, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. THE SELLER (XERXES) UNDERTAKES NO RESPONSIBILITY FOR THE QUALITY OF THE GOODS, EXCEPT AS OTHERWISE PROVIDED IN THIS CONTRACT. THE SELLER (XERXES) ASSUMES NO RESPONSIBILITY THAT THE GOODS WILL BE FIT FOR ANY PARTICULAR PURPOSE FOR WHICH YOU (OWNER) MAY BE BUYING THESE GOODS, EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT. THE REMEDIES SET FORTH IN THE ABOVE WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON OR ENTITY FOR BREACH OF WARRANTY OR FOR BREACH OF ANY OTHER COVENANT, DUTY, OR OBLIGATION ON THE PART OF XERXES. XERXES SHALL HAVE NO LIABILITY OR OBLIGATION TO ANY PERSON OR ENTITY FOR BREACH OF ANY OTHER COVENANT, DUTY OR OBLIGATION UNDER THIS WARRANTY EXCEPT AS EXPRESSLY SET FORTH HEREIN. IT IS EXPRESSLY AGREED THAT THIS WARRANTY DOES NOT FAIL OF ITS ESSENTIAL PURPOSE. XERXES SHALL HAVE NO LIABILITY FOR COSTS OF INSTALLATION OR REMOVAL OF GOODS, ENVIRONMENTAL CONTAMINATION, FIRES, EXPLOSIONS OR ANY OTHER CONSEQUENCES ALLEGEDLY ATTRIBUTABLE TO A BREACH OF WARRANTY, OR INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES OF ANY DESCRIPTION, WHETHER ANY SUCH CLAIM OR DAMAGES BE BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER TORT, OR OTHERWISE. IN NO EVENT SHALL XERXES' TOTAL LIABILITY HEREUNDER EXCEED THE ORIGINAL PURCHASE PRICE OF THE GOODS WHICH GAVE RISE TO SUCH LIABILITY.

### Consumer Notice:

This warranty gives you (Owner) specific legal rights. You (Owner) may also have other rights which vary from state to state.

<sup>1</sup> TM Arco Chemical Co.

Effective 10/1/04

**TROY SCHOOL DISTRICT  
UNDERGROUND STORAGE TANK REMOVAL &  
REPLACEMENT  
BID# 9538**

**ADDENDUM #1 – PREVAILING WAGE RATES IN EFFECT**

The successful bidder and its subordinate parties shall comply with the Prevailing Wage Requirements for all work as required by the State of Michigan Public Act 166 Dated 1965 As Amended.

Due to the required timing of the release of this Request For Proposal, the actual Prevailing Wage scale to be used for this project was not available when the original bid specifications were published. Bidders are specially notified that this project is subject to the Prevailing Wage Requirements and that the specific Prevailing Wage scale are now published as Addendum #1 to this Request for Proposal.

**All respondents MUST acknowledge receipt of all Addendums published as part of this Request For Proposal. Submissions not acknowledging receipt of the issued addendums will be considered as incomplete and be deemed not acceptable.**

**Receipt of Addendum #1 – Prevailing Wage Rates is hereby received and acknowledged.**

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**Company**

---

**Represented by**

---

**Date**



STATE OF MICHIGAN

JENNIFER M. GRANHOLM  
GOVERNOR

DEPARTMENT OF LABOR & ECONOMIC GROWTH  
LANSING

KEITH W. COOLEY  
DIRECTOR

## REQUIREMENTS OF THE PREVAILING WAGES ON STATE PROJECTS ACT, PUBLIC ACT 166 OF 1965

The Michigan Department of Labor & Economic Growth determines prevailing rates pursuant to the Prevailing Wages on State Projects Act, Public Act 166 of 1965, as amended. The purpose of establishing prevailing rates is to provide minimum rates of pay that must be paid to workers on construction projects for which the state or a school district is the contracting agent and which is financed or financially supported by the state. By law, prevailing rates are compiled from the rates contained in collectively bargained agreements which cover the locations of the state projects. The official prevailing rates provide an hourly rate which includes wage and fringe benefit totals for designated construction mechanic classifications. The overtime rates also include wage and fringe benefit totals. Please pay special attention to the overtime and premium pay requirements. Prevailing wage is satisfied when wages plus fringe benefits paid to a worker are equal to or greater than the required rate.

### State of Michigan responsibilities under the law:

- The department establishes the prevailing rate for each classification of construction mechanic **requested by a contracting agent** prior to contracts being let out for bid on a state project.

### Contracting agent responsibilities under the law:

- If a contract is not awarded or construction does not start within 90 days of the date of the issuance of rates, a re-determination of rates must be requested by the contracting agent.
- Rates for classifications needed but not provided on the Prevailing Rate Schedule, **must** be obtained **prior** to contracts being let out for bid on a state project.
- The contracting agent, by written notice to the contractor and the sureties of the contractor known to the contracting agent, may terminate the contractor's right to proceed with that part of the contract, for which less than the prevailing rates have been or will be paid, and may proceed to complete the contract by separate agreement with another contractor or otherwise, and the original contractor and his sureties shall be liable to the contracting agent for any excess costs occasioned thereby.

### Contractor responsibilities under the law:

- Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing rates prescribed in a contract.
- Every contractor and subcontractor shall keep certified payrolls, as used in the industry, of each and every construction mechanic, and verification of such certified payroll in writing by either a representative or auditor/certified accountant at the end of such a certified payroll. These records should include the occupation and indicate the hours worked on each project for each classification and the actual wages and benefits paid. This record shall be available for reasonable inspection by the contracting agent or the department.
- Each contractor or subcontractor is separately liable for the payment of the prevailing rate to its employees.
- The prime contractor is responsible for advising all subcontractors of the requirement to pay the prevailing rate prior to commencement of work.
- The prime contractor is secondarily liable for payment of prevailing rates that are not paid by a subcontractor.
- A construction mechanic shall only be paid the apprentice rate if registered with the United States Department of Labor, Bureau of Apprenticeship and Training and the rate is included in the contract.

### Enforcement:

A person who has information of an alleged prevailing wage violation on a state project may file a complaint with the Wage & Hour Division. The department will investigate and attempt to resolve the complaint informally. During the course of an investigation, if the requested records and posting certification are not made available in compliance with Section 5 of Act 166, the investigation will be concluded and a referral to the Office of Attorney General for civil action will be made. The Office of Attorney General will pursue costs and fees associated with a lawsuit if filing is necessary to obtain records.

A violation of Act 166 may result in the contractor's name being added to the Prevailing Wage Act Violators List published on the division's website, updated monthly. This list includes the names and addresses of contractors and subcontractors the division has found in violation of Act 166 based on complaints from individuals and third parties. The Prevailing Wage Act Violators List is intended to inform contracting agents of contractors that have violated Act 166 for use in determining who should receive state-funded projects.

WAGE & HOUR DIVISION  
P.O. BOX 30476 • LANSING, MICHIGAN 48909-7976  
[www.michigan.gov/wagehour](http://www.michigan.gov/wagehour) • (517) 335-0400 • FAX (517) 335-0077

## ENGINEERS - CLASSES OF EQUIPMENT LIST

### UNDERGROUND ENGINEERS

#### **CLASS I**

Backfiller Tamper, Backhoe, Batch Plant Operator, Clam-Shell, Concrete Paver (2 drums or larger), Conveyor Loader (Euclid type), Crane (crawler, truck type or pile driving), Dozer, Dragline, Elevating Grader, End Loader, Gradall (and similar type machine), Grader, Power Shovel, Roller (asphalt), Scraper (self propelled or tractor drawn), Side Broom Tractor (type D-4 or larger), Slope Paver, Trencher (over 8' digging capacity), Well Drilling Rig, Mechanic, Slip Form Paver, Hydro Excavator.

#### **CLASS II**

Boom Truck (power swing type boom), Crusher, Hoist, Pump (1 or more 6" discharge or larger gas or diesel powered by generator of 300 amps or more, inclusive of generator), Side Boom Tractor (smaller than type D-4 or equivalent), Tractor (pneu-tired, other than backhoe or front end loader), Trencher (8' digging capacity and smaller), Vac Truck.

#### **CLASS III**

Air Compressors (600 cfm or larger), Air Compressors (2 or more less than 600 cfm), Boom Truck (non-swinging, non-powered type boom), Concrete Breaker (self-propelled or truck mounted, includes compressor), Concrete Paver (1 drum, ½ yard or larger), Elevator (other than passenger), Maintenance Man, Mechanic Helper, Pump (2 or more 4" up to 6" discharge, gas or diesel powered, excluding submersible pump), Pumpcrete Machine (and similar equipment), Wagon Drill Machine, Welding Machine or Generator (2 or more 300 amp or larger, gas or diesel powered).

#### **CLASS IV**

Boiler, Concrete Saw (40HP or over), Curing Machine (self-propelled), Farm Tractor (w/attachment), Finishing Machine (concrete), Firemen, Hydraulic Pipe Pushing Machine, Mulching Equipment, Oiler (2 or more up to 4", exclude submersible), Pumps (2 or more up to 4" discharge if used 3 hrs or more a day-gas or diesel powered, excluding submersible pumps), Roller (other than asphalt), Stump Remover, Vibrating Compaction Equipment (6' wide or over), Trencher (service) Sweeper (Wayne type and similar equipment), Water Wagon, Extend-a-Boom Forklift.

### HAZARDOUS WASTE ABATEMENT ENGINEERS

#### **CLASS I**

Backhoe, Batch Plant Operator, Clamshell, Concrete Breaker when attached to hoe, Concrete Cleaning Decontamination Machine Operator, Concrete Pump, Concrete Paver, Crusher, Dozer, Elevating Grader, Endloader, Farm Tractor (90 h.p. and higher), Gradall, Grader, Heavy Equipment Robotics Operator, Hydro Excavator, Loader, Pug Mill, Pumpcrete Machines, Pump Trucks, Roller, Scraper (self-propelled or tractor drawn), Side Boom Tractor, Slip Form Paver, Slope Paver, Trencher, Ultra High Pressure Waterjet Cutting Tool System Operator, Vactors, Vacuum Blasting Machine Operator, Vertical Lifting Hoist, Vibrating Compaction Equipment (self-propelled), and Well Drilling Rig.

#### **CLASS II**

Air Compressor, Concrete Breaker when not attached to hoe, Elevator, End Dumps, Equipment Decontamination Operator, Farm Tractor (less than 90 h.p.), Forklift, Generator, Heater, Mulcher, Pigs (Portable Reagent Storage Tanks), Power Screens, Pumps (water), Stationary Compressed Air Plant, Sweeper, Water Wagon and Welding Machine.

Revised: 05/23/08

**State of Michigan**  
**Department of Labor and Economic Growth**

**Official Request** 898

**Requestor:** TROY SCHOOL DISTRICT

**Project Description:** UNDERGROUND STORAGE TANK REPLACEMENT

**Project Number:** TRANSPORTATION DEPT.

**Wage and Hour Division**

6546 Mercantile Way, Suite 5

PO Box 30476

Lansing, MI 48909-7976

Telephone: 517-335-0400

Fax: 517-335-0077

www.michigan.gov/wagehour

**Oakland County**

**Official 2008 Prevailing Wage Rates for State Funded Projects**

**Issue Date:** 6/18/2008

**Contract must be awarded by:** 9/16/2008

**Page 1 of 22**

<u>Classification</u>		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
=====						
<b>Asbestos &amp; Lead Abatement Laborer</b>						
Asbestos & Lead Abatement Laborer	MLDC	7/31/2007	\$32.65	\$43.39	\$54.13	H H H X X X D Y
<b>Asbestos &amp; Lead Abatement, Hazardous Material Handler</b>						
Asbestos and Lead Abatement, Hazardous Material Handler	AS207	11/28/2007	\$32.65	\$44.75	\$56.85	H H H X X X D Y
<b>Boilermaker</b>						
Boilermaker	BO169	11/5/2007	\$51.27	\$76.00	\$100.74	H H H H H H D Y
<b>Apprentice Rates:</b>						
1st 6 months		\$38.12	\$56.28	\$74.44		
2nd 6 months		\$39.17	\$57.86	\$76.54		
3rd 6 months		\$40.23	\$59.45	\$78.66		
4th 6 months		\$41.29	\$61.04	\$80.78		
5th 6 months		\$42.33	\$62.60	\$82.86		
6th 6 months		\$44.44	\$65.76	\$87.08		
7th 6 months		\$46.54	\$68.91	\$91.28		
8th 6 months		\$48.65	\$72.08	\$95.50		
<b>Bricklayer</b>						
Bricklayer, stone mason, pointer, cleaner, caulker	BR1	12/20/2007	\$48.96	\$73.44	\$97.92	H H D H D D D N
<b>Apprentice Rates:</b>						
First 6 months		\$29.49	\$44.24	\$58.98		
2nd 6 months		\$31.31	\$46.97	\$62.62		
3rd 6 months		\$33.13	\$49.70	\$66.26		
4th 6 months		\$34.95	\$52.43	\$69.90		
5th 6 months		\$36.77	\$55.16	\$73.54		
6th 6 months		\$38.59	\$57.89	\$77.18		
7th 6 months		\$40.41	\$60.62	\$80.82		
8th 6 months		\$42.23	\$63.35	\$84.46		

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

County: Oakland

**Official Rate Schedule**

**Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.**



# Official 2008 Prevailing Wage Rates for State Funded Projects

Issue Date: 6/18/2008

Contract must be awarded by: 9/16/2008

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Classification									
Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision			

## Carpenter

Carpet and Resilient Floor Layer, (does not include installation of prefabricated formica & parquet flooring which is to be paid carpenter rate)

CA1045

1/9/2008

\$42.24 \$59.86 \$77.47 H H H H D D D D N

### Apprentice Rates:

1st 6 months	\$21.10	\$28.15	\$35.19
2nd 6 months	\$24.62	\$33.42	\$42.23
3rd 6 months	\$26.38	\$36.07	\$45.75
4th 6 months	\$28.15	\$38.72	\$49.29
5th 6 months	\$29.91	\$41.36	\$52.81
6th 6 months	\$31.67	\$44.01	\$56.33
7th 6 months	\$33.42	\$46.63	\$59.83
8th 6 months	\$35.19	\$49.28	\$63.37

Carpenter

CA687Z1

1/14/2008

\$46.58 \$66.30 \$86.02 H H D H D D D D Y

### Apprentice Rates:

1st Year	\$28.84	\$39.69	\$50.54
3rd 6 months	\$30.81	\$42.64	\$54.48
4th 6 months	\$32.78	\$45.60	\$58.42
5th 6 months	\$34.75	\$48.56	\$62.36
6th 6 months	\$36.73	\$51.53	\$66.32
7th 6 months	\$38.70	\$54.49	\$70.26
8th 6 months	\$40.66	\$57.43	\$74.18

## Cement Mason

Cement Mason

CE514

7/20/2007

\$43.95 \$61.87 \$79.78 H H D H H H H D N

### Apprentice Rates:

1st 6 months	\$25.64	\$34.60	\$43.56
2nd 6 months	\$27.45	\$37.31	\$47.18
3rd 6 months	\$31.02	\$42.68	\$54.32
4th 6 months	\$34.61	\$48.05	\$61.50
5th 6 months	\$36.40	\$50.74	\$65.08
6th 6 months	\$39.99	\$56.13	\$72.26

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

County: Oakland

## Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

# Official 2008 Prevailing Wage Rates for State Funded Projects

Issue Date: 6/18/2008

Contract must be awarded by: 9/16/2008

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<u>Classification</u>		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
=====						
<b>Drywall</b>						
Drywall Taper	PT-22-D	9/1/2006	\$38.45	\$50.90	\$63.35	H H D H D D D D N
<b>Apprentice Rates:</b>						
First 3 months		\$26.00	\$32.23	\$38.45		
Second 3 months		\$28.49	\$35.96	\$43.43		
Second 6 months		\$30.98	\$39.69	\$48.41		
Third 6 months		\$33.47	\$43.43	\$53.39		
4th 6 months		\$34.71	\$45.29	\$55.87		
<b>Electrician</b>						
Road Way Electrical Work	EC-17	11/19/2007	\$45.37	\$65.63	\$85.90	H H H H H H H D Y
Double time due after 16 hours on any calendar day and all hours Sunday.						
<b>Apprentice Rates:</b>						
1st 6 months		\$29.17	\$41.34	\$53.50		
2nd 6 months		\$31.19	\$44.36	\$57.54		
3rd 6 months		\$33.21	\$47.40	\$61.58		
4th 6 months		\$35.23	\$50.43	\$65.62		
5th 6 months		\$37.25	\$53.46	\$69.66		
6th 6 months		\$41.32	\$59.57	\$77.80		
<u>Subdivision of county</u> Holly not included						
Inside Wireman	EC-58-IW	1/7/2008	\$53.62	\$71.49	\$89.36	H H H H H H H D N
<b>Apprentice Rates:</b>						
0-1000 hours		\$32.18	\$39.33	\$46.48		
1000-2000 hours		\$33.97	\$42.02	\$50.06		
2000-3500 hours		\$35.75	\$44.68	\$53.62		
3500-5000 hours		\$37.54	\$47.38	\$57.20		
5000-6500 hours		\$41.12	\$52.74	\$64.36		
6500-8000 hours		\$44.68	\$58.08	\$71.48		
Sound and Communication Installer/Technician	EC-58-SC	1/7/2008	\$32.54	\$44.20	\$55.86	H H H H H H H D N
<b>Apprentice Rates:</b>						
Period 1		\$20.88	\$26.71	\$32.54		
Period 2		\$22.04	\$28.46	\$34.86		
Period 3		\$23.21	\$30.21	\$37.20		
Period 4		\$24.38	\$31.96	\$39.54		
Period 5		\$25.55	\$33.72	\$41.88		
Period 6		\$26.71	\$35.46	\$44.20		

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

County: Oakland

## Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

# Official 2008 Prevailing Wage Rates for State Funded Projects

Issue Date: 6/18/2008

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
=====						
<b>Elevator Constructor</b>						
Elevator Constructor	EL 36		\$56.46		\$94.99	D D D D D D D Y
Elevator Constructor		8/7/2007				
<b>Apprentice Rates:</b>						
1st Year Apprentice		\$37.74	\$58.93			
2nd Year Apprentice		\$41.90	\$66.94			
3rd Year Apprentice		\$43.98	\$70.95			
4th Year Apprentice		\$48.14	\$78.96			
<b>Glazier</b>						
Glazier	GL-357		\$43.80	\$58.40		H H H H H H H Y
		5/30/2008				
<b>Apprentice Rates:</b>						
1st 6 months		\$29.20	\$36.50			
2nd 6 months		\$30.66	\$38.69			
3rd 6 months		\$33.58	\$43.07			
4th 6 months		\$35.04	\$45.26			
5th 6 months		\$36.50	\$47.45			
6th 6 months		\$37.96	\$49.64			
7th 6 months		\$39.42	\$51.83			
8th 6 months		\$42.34	\$56.21			
<b>Heat and Frost Insulator</b>						
Spray Insulation	AS25S		\$20.14	\$29.14		H H H H H H H N
		3/5/2007				
<b>Heat and Frost Insulator and Asbestos Worker</b>						
Heat and Frost Insulators and Asbestos Workers	AS25		\$48.20	\$62.86	\$77.52	H H H H H H D Y
		3/5/2007				
<b>Apprentice Rates:</b>						
1st Year		\$29.59	\$37.66	\$45.72		
2nd Year		\$37.60	\$47.13	\$56.66		
3rd Year		\$39.40	\$49.66	\$59.92		
4th Year		\$42.34	\$54.07	\$65.80		
<b>Ironworker</b>						
Fence Erecting	IR-25-F		\$41.03	\$61.26	\$81.49	H H D H H H D Y
		10/4/2007				

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

County: Oakland

## Official Rate Schedule

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# Official 2008 Prevailing Wage Rates for State Funded Projects

Issue Date: 6/18/2008

Contract must be awarded by: 9/16/2008

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<u>Classification</u>		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision						
Name	Description					H	H	D	H	H	D	D
=====												
Siding, Glazing, Curtain Wall	IR-25-GZ1	3/28/2008	\$39.86	\$59.54	\$79.22	H	H	D	H	H	D	Y
Apprentice Rates:												
Level 1		\$24.72	\$36.54	\$48.34								
Level 2		\$26.69	\$39.49	\$52.28								
Level 3		\$28.65	\$42.43	\$56.20								
Level 4		\$30.62	\$45.39	\$60.14								
Level 5		\$32.59	\$48.34	\$64.08								
Level 6		\$34.56	\$51.29	\$68.02								
Pre-engineered Metal Work	IR-25-PE-Z1-Z2	5/8/2008	\$41.69	\$52.37	\$63.04	X	X	H	X	X	X	D Y
Apprentice Rates:												
1st level		\$23.47	\$28.51	\$33.55								
2nd level		\$25.12	\$30.85	\$36.58								
3rd level		\$26.78	\$33.19	\$39.61								
4th level		\$28.44	\$35.55	\$42.66								
5th level		\$30.10	\$37.90	\$45.70								
6th level		\$31.36	\$39.65	\$47.93								
Reinforced Iron Work	IR-25-RF	6/2/2008	\$50.06	\$74.82	\$99.58	H	H	D	H	D	D	D N
Apprentice Rates:												
Level 1		\$30.85	\$45.71	\$60.56								
Level 2		\$33.33	\$49.43	\$65.52								
Level 3		\$35.79	\$53.11	\$70.44								
Level 4		\$38.29	\$56.87	\$75.44								
Level 5		\$40.75	\$60.55	\$80.36								
Level 6		\$43.23	\$64.28	\$85.32								
Rigging Work	IR-25-RIG	6/2/2008	\$55.48	\$82.99	\$110.49	H	H	H	H	H	H	D N
Apprentice Rates:												
Level 1&2		\$31.46	\$46.59	\$61.72								
Level 3		\$34.21	\$50.72	\$67.22								
Level 4		\$36.95	\$54.83	\$72.70								
Level 5		\$39.71	\$58.97	\$78.22								
Level 6		\$42.46	\$63.09	\$83.72								
Decking	IR-25-SD	10/4/2007	\$46.40	\$69.32	\$92.23	H	H	D	H	H	D	D Y

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

County: Oakland

### Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

# Official 2008 Prevailing Wage Rates for State Funded Projects

Issue Date: 6/18/2008

Contract must be awarded by: 9/16/2008

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision	
Name	Description						
=====							
Structural, ornamental, conveyor, welder and pre-cast	IR-25-STR	6/2/2008	\$55.61	\$83.12	\$110.62	H H D H H H D D Y	
<b>Apprentice Rates:</b>							
Levels 1 & 2		\$31.46	\$46.59	\$61.72			
Level 3		\$34.21	\$50.72	\$67.22			
Level 4		\$36.95	\$54.83	\$72.70			
Level 5		\$39.71	\$58.97	\$78.22			
Level 6		\$42.46	\$63.09	\$83.72			
Level 7		\$45.20	\$67.20	\$89.20			
Level 8		\$47.96	\$71.34	\$94.72			
Industrial Door erection & construction	IR-25-STR-D	3/28/2008	\$35.72	\$47.34	\$58.96	H H D H H H D D Y	
<b>Laborer</b>							
Construction Laborer, Mason Tender, Carpenter Tender, Drywall Handler, Cement Finisher tender, concrete chute and concrete Bucket Handler, Concrete Laborer, Demolition Laborer	L1076-A-A	6/5/2008	\$38.76	\$54.89	\$71.01	H H D H D D D D Y	
<b>Apprentice Rates:</b>							
0-1,000 work hours		\$32.88	\$46.07	\$59.25			
1,001-2,000 work hours		\$34.05	\$47.82	\$61.59			
2,001-3,000 work hours		\$35.23	\$49.60	\$63.95			
3,001-4,000 work hours		\$37.58	\$53.12	\$68.65			
Signal man (on sewer & caisson work); air,electric or gasoline tool operator (including concrete vibrator operator,acetylene torch & air hammer operator); scaffold builder, caisson worker	L1076-A-B	6/5/2008	\$39.02	\$55.28	\$71.53	H H D H D D D D Y	
Lansing Burner, Blaster & Powder Man	L1076-A-C	6/5/2008	\$39.51	\$56.01	\$72.51	H H D H D D D D Y	
Furnance battery heater tender, burning bar & oxy-acetylene gun, expediter man, top man and/or bottom man (blast furnace work)	L1076-A-D	6/5/2008	\$39.26	\$55.64	\$72.01	H H D H D D D D Y	
Cleaner/ sweeper laborer, furniture laborer	L1076-A-E	6/5/2008	\$33.31	\$46.71	\$60.11	H H D H D D D D Y	
Demolition Laborer	L1076-D	6/5/2008	\$38.76	\$54.89	\$71.01	H H D H D D D D Y	

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

County: Oakland

## Official Rate Schedule

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Contract must be awarded by: 9/16/2008

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Classification	Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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	Plasterer Tender, Plastering Machine Operator	LPT-1	7/3/2007	\$39.00	\$55.42	\$71.83	H H D H D D D N
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## Apprentice Rates:

0 - 1,000 hours	\$31.99	\$44.90	\$57.81
1,001 - 2,000 hours	\$33.11	\$46.58	\$60.05
2,001 - 3,000 hours	\$34.24	\$48.28	\$62.31
3,001 - 4,000 hours	\$36.49	\$51.66	\$66.81

## Laborer - Hazardous

Class A Laborer - performing work in conjunction with site preparation and other preliminary work prior to actual removal, handling, or containment of hazardous waste substances not requiring use of personal protective equipment required by state or federal regulations; or a laborer performing work in conjunction with the removal, handling, or containment of hazardous waste substances when used of personal protective equipment level "D" is required.	LHAZ-Z2-A	10/11/2007	\$37.62	\$53.35	\$69.07	H H H H H H D Y
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## Apprentice Rates:

0-1,000 work hours	\$31.98	\$44.89	\$57.79
1,001-2,000 work hours	\$33.11	\$46.58	\$60.05
2,001-3,000 work hours	\$34.24	\$48.28	\$62.31
3,001-4,000 work hours	\$36.49	\$51.66	\$66.81

Class B Laborer - performing work in conjunction with the removal, handling, or containment of hazardous waste substances when the use of personal protective equipment levels "A", "B" or "C" is required.	LHAZ-Z2-B	10/11/2007	\$38.62	\$54.85	\$71.07	H H H H H H D Y
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## Apprentice Rates:

0-1,000 work hours	\$32.74	\$46.03	\$59.31
1,001-2,000 work hours	\$33.91	\$47.78	\$61.65
2,001-3,000 work hours	\$35.09	\$49.56	\$64.01
3,001-4,000 work hours	\$37.44	\$53.08	\$68.71

## Laborer Underground - Tunnel, Shaft & Caisson

Class I - Tunnel, shaft and caisson laborer, dump man, shanty man, hog house tender, testing man (on gas), and watchman.	LAUCT-Z1-1	9/6/2007	\$33.54	\$44.30	\$55.05	H H H H H H D Y
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## Apprentice Rates:

0-1,000 work hours	\$28.70	\$37.04	\$45.37
1,001-2,000 work hours	\$29.67	\$38.49	\$47.31
2,001-3,000 work hours	\$30.64	\$39.95	\$49.25
3,001-4,000 work hours	\$32.57	\$42.85	\$53.11

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

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Classification									
Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision			
Class II - Manhole, headwall, catch basin builder, bricklayer tender, mortar man, material mixer, fence erector, and guard rail builder.	LAUCT-Z1-2	9/6/2007	\$33.65	\$44.46	\$55.27	H H H H H H D Y			

### Apprentice Rates:

0-1,000 work hours	\$28.79	\$37.17	\$45.55
1,001-2,000 work hours	\$29.76	\$38.74	\$47.71
2,001-3,000 work hours	\$30.73	\$40.09	\$49.43
3,001-4,000 work hours	\$32.68	\$43.01	\$53.33

Class III - Air tool operator (jack hammer man, bush hammer man and grinding man), first bottom man, second bottom man, cage tender, car pusher, carrier man, concrete man, concrete form man, concrete repair man, cement invert laborer, cement finisher, concrete shoveler, conveyor man, floor man, gasoline and electric tool operator, gunnite man, grout operator, welder, heading dinky man, inside lock tender, pea gravel operator, pump man, outside lock tender, scaffold man, top signal man, switch man, track man, tugger man, utility man, vibrator man, winch operator, pipe jacking man, wagon drill and air track operator and concrete saw operator (under 40	LAUCT-Z1-3	9/6/2007	\$33.71	\$44.55	\$55.39	H H H H H H D Y			
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### Apprentice Rates:

0-1,000 work hours	\$28.83	\$37.23	\$45.63
1,001-2,000 work hours	\$29.81	\$38.71	\$47.59
2,001-3,000 work hours	\$30.78	\$40.16	\$49.53
3,001-4,000 work hours	\$32.73	\$43.09	\$53.43

Class IV - Tunnel, shaft and caisson mucker, bracer man, liner plate man, long haul dinky driver and well point man.	LAUCT-Z1-4	9/6/2007	\$33.89	\$44.82	\$55.75	H H H H H H D Y			
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### Apprentice Rates:

0-1,000 work hours	\$28.97	\$37.45	\$45.91
1,001-2,000 work hours	\$29.95	\$38.91	\$47.87
2,001-3,000 work hours	\$30.94	\$40.40	\$49.85
3,001-4,000 work hours	\$32.91	\$43.35	\$53.79

Class V - Tunnel, shaft and caisson miner, drill runner, keyboard operator, power knife operator, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars)	LAUCT-Z1-5	9/6/2007	\$34.14	\$45.20	\$56.25	H H H H H H D Y			
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### Apprentice Rates:

0-1,000 work hours	\$29.16	\$37.73	\$46.29
1,001-2,000 work hours	\$30.15	\$39.21	\$48.27
2,001-3,000 work hours	\$31.15	\$40.71	\$50.27
3,001-4,000 work hours	\$33.14	\$43.70	\$54.25

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

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Classification			Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description						
Class VI - Dynamite man and powder man.	LAUCT-Z1-6		9/6/2007	\$34.47	\$45.69	\$56.91	H H H H H H D Y
<b>Apprentice Rates:</b>							
	0-1,000 work hours		\$29.40	\$38.09	\$46.77		
	1,001-2,000 work hours		\$30.42	\$39.62	\$48.81		
	2,001-3,000 work hours		\$31.43	\$41.13	\$50.83		
	3,001-4,000 work hours		\$33.46	\$44.18	\$54.89		
Class VII - Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes and flagstones.	LAUCT-Z1-7		9/6/2007	\$27.75	\$35.61	\$43.47	H H H H H H D Y
<b>Apprentice Rates:</b>							
	0-1,000 work hours		\$24.36	\$30.53	\$36.69		
	1,001-2,000 work hours		\$25.04	\$31.55	\$38.05		
	2,001-3,000 work hours		\$25.72	\$32.57	\$39.41		
	3,001-4,000 work hours		\$27.07	\$34.59	\$42.11		
<b>Landscape Laborer</b>							
Landscape Specialist includes air, gas, and diesel equipment operator, lawn sprinkler installer on landscaping work where seeding, sodding, planting, cutting, trimming, backfilling, rough grading or	LLAN-Z1-A		7/3/2007	\$24.38	\$33.81	\$43.24	X X H X X X H D Y
All work pertaining to landscaping where seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintaining of landscape projects occurs which may include small power tool operator, lawn sprinkler installer helper, material mover, & truck driver.	LLAN-Z1-B		7/3/2007	\$20.16	\$27.48	\$34.80	X X H X X X H D Y
<b>Marble Finisher</b>							
Marble Finisher	TT32-MF		7/25/2007	\$39.57	\$49.90	\$60.23	H H D H D D D D N
<b>Apprentice Rates:</b>							
	Level 1		\$19.30	\$24.91	\$30.52		
	Level 2		\$20.40	\$26.56	\$32.72		
	Level 3		\$24.67	\$31.27	\$37.87		
	Level 4		\$26.01	\$33.28	\$40.55		
	Level 5		\$27.38	\$34.86	\$42.34		
	Level 6		\$28.85	\$36.70	\$44.56		
	Level 7		\$30.39	\$38.30	\$46.21		
	Level 8		\$31.75	\$39.92	\$48.09		

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

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# Official 2008 Prevailing Wage Rates for State Funded Projects

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
=====						
<b>Marble Mason</b>						
Marble Mason	TT32-MM		\$45.76	\$59.19	\$72.61	H H D H D D D D N
		7/25/2007				
<b>Apprentice Rates:</b>						
Level 1		\$24.86	\$31.89	\$38.93		
Level 2		\$27.65	\$35.43	\$43.21		
Level 3		\$30.50	\$38.57	\$46.64		
Level 4		\$33.00	\$41.96	\$50.92		
Level 5		\$35.10	\$44.33	\$53.56		
Level 6		\$38.52	\$49.39	\$60.27		
Level 7		\$39.37	\$50.53	\$61.69		
Level 8		\$40.22	\$51.81	\$63.39		
<b>Operating Engineer</b>						
Crane with boom & jib or leads 120' or longer	EN-324-A120		\$50.71	\$67.65	\$84.58	H H D H D D D D Y
		6/5/2008				
Crane with boom & jib or leads 140' or longer	EN-324-A140		\$51.53	\$68.88	\$86.22	H H D H D D D D Y
		6/5/2008				
Crane with boom & jib or leads 220' or longer	EN-324-A220		\$51.83	\$69.33	\$86.82	H H D H D D D D Y
		6/5/2008				
Crane with boom & jib or leads 300' or longer	EN-324-A300		\$53.33	\$71.58	\$89.82	H H D H D D D D Y
		6/5/2008				
Crane with boom & jib or leads 400' or longer	EN-324-A400		\$54.83	\$73.83	\$92.82	H H D H D D D D Y
		6/5/2008				
Compressor or welding machine	EN-324-CW		\$39.86	\$51.37	\$62.88	H H D H D D D D Y
		6/5/2008				
Forklift, lull, extend-a-boom forklift	EN-324-FL		\$47.17	\$62.34	\$77.50	H H D H D D D D Y
		6/5/2008				
Fireman or oiler	EN-324-FO		\$38.83	\$49.83	\$60.82	H H D H D D D D Y
		6/5/2008				
Regular crane, job mechanic, concrete pump with boom	EN-324-RC		\$49.85	\$66.36	\$82.86	H H D H D D D D Y
		6/5/2008				

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

County: Oakland

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# Official 2008 Prevailing Wage Rates for State Funded Projects

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<u>Classification</u>			Last	Straight	Time and	Double	Overtime
Name	Description		Updated	Hourly	a Half	Time	Provision
Regular engineer, hydro-excavator, remote controlled concrete breaker	EN-324-RE		6/5/2008	\$48.88	\$64.90	\$80.92	H H D H D D D Y

## Apprentice Rates:

Period 1	\$38.92	\$50.14	\$61.35
Period 2	\$40.53	\$52.55	\$64.57
Period 3	\$42.12	\$54.94	\$67.75
Period 4	\$43.72	\$57.34	\$70.95
Period 5	\$45.32	\$59.73	\$74.15
Period 6	\$46.93	\$62.15	\$77.37

## Operating Engineer - Marine Construction

Diver/Wet Tender, Engineer (hydraulic dredge)	GLF-1		1/8/2008	\$51.76	\$67.91	\$84.06	X X H H H H H D Y
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Holidays paid at \$100.21 per hour

<u>Subdivision of county</u>	all Great Lakes, islands therein, & connecting & tributary waters						
Crane/Backhoe Operator, Mechanic/Welder, Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender	GLF-2		1/8/2008	\$50.26	\$65.66	\$81.06	X X H H H H H D Y

Holidays paid \$96.46 per hour

<u>Subdivision of county</u>	All Great Lakes, islands therein, & connecting & tributary waters						
Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more), Tug/Launch Operator, Loader, Dozer and like equipment on Barge, Breakwater Wall, Slip/Doc or Scow, Deck Machinery	GLF-3		1/8/2008	\$46.91	\$60.64	\$74.36	X X H H H H H D Y

Holidays paid at \$88.08 per hour

<u>Subdivision of county</u>	All Great Lakes, islands therein, & connecting & tributary waters						
Deck Equipment Operator, (Machineryman/Fireman), (4 equipment units or more), Deck Hand, Deck Engineer, & Crane Maintenance 50 ton capacity and under or Backhoe weighing 115,000 lbs or less, Assistant Tug Operator	GLF-4		1/8/2008	\$42.26	\$53.66	\$65.06	X X H H H H H D Y

Holidays paid at \$76.46 per hour

<u>Subdivision of county</u>	All Great Lakes, islands therein, & connecting & tributary waters						
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Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

County: Statewide

## Official Rate Schedule

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# Official 2008 Prevailing Wage Rates for State Funded Projects

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Classification		Last	Straight	Time and	Double	Overtime
Name	Description	Updated	Hourly	a Half	Time	Provision

## Operating Engineer Hazardous Waste Class I

Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye

EN-324-HWCI-Z1A  
4/3/2008

\$47.34 \$63.11 \$78.87 H H H H H H D Y

### Apprentice Rates:

1st 6 months	\$37.78	\$48.81	\$59.85
2nd 6 months	\$39.36	\$51.19	\$63.01
3rd 6 months	\$40.94	\$53.56	\$66.17
4th 6 months	\$42.52	\$55.92	\$69.33
5th 6 months	\$44.09	\$58.28	\$72.47
6th 6 months	\$45.67	\$60.66	\$75.63

Level B & C protection. B - Pressure demand, full face SCBA or pressure demand supplied air respirator w/ escape SCBA w/chemical resistant clothing. C - Full face piece, air purifying canister-equipped respirator w/chemical resistant clothing.

EN-324-HWCI-Z1B  
4/3/2008

\$46.39 \$61.68 \$76.97 H H H H H H D Y

### Apprentice Rates:

1st 6 months	\$37.11	\$47.82	\$58.51
2nd 6 months	\$38.64	\$50.11	\$61.57
3rd 6 months	\$40.17	\$52.40	\$64.63
4th 6 months	\$41.70	\$54.70	\$67.69
5th 6 months	\$43.23	\$57.00	\$70.75
6th 6 months	\$44.76	\$59.29	\$73.81

Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats.

EN-324-HWCI-Z1D  
3/24/2008

\$45.09 \$59.73 \$74.37 H H H H H H D Y

### Apprentice Rates:

1st 6 months	\$36.20	\$46.45	\$56.69
2nd 6 months	\$37.68	\$48.67	\$59.65
3rd 6 months	\$39.14	\$50.86	\$62.57
4th 6 months	\$40.60	\$53.05	\$65.49
5th 6 months	\$42.06	\$55.23	\$68.41
6th 6 months	\$43.53	\$57.44	\$71.35

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Classification									
Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision			
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWCII-Z1DCL	3/24/2008	\$44.84	\$59.36	\$73.87	H H H H H H D Y			

## Apprentice Rates:

1st 6 months	\$36.03	\$46.19	\$56.35
2nd 6 months	\$37.48	\$48.37	\$59.25
3rd 6 months	\$38.93	\$50.54	\$62.15
4th 6 months	\$40.38	\$52.72	\$65.05
5th 6 months	\$41.84	\$54.91	\$67.97
6th 6 months	\$43.29	\$57.08	\$70.87

## Operating Engineer Hazardous Waste Class II

Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye	EN-324-HWCII-Z1A	4/3/2008	\$43.11	\$56.76	\$70.41	H H H H H H D Y
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Level B & C protection. B - Pressure demand, full face SCBA or pressure demand supplied air respirator w/ escape SCBA w/chemical resistant clothing. C - Full face piece, air purifying canister-equipped respirator w/chemical resistant clothing.	EN-324-HWCII-Z1B	3/24/2008	\$42.16	\$55.34	\$68.51	H H H H H H D Y
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Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWCII-Z1D	3/24/2008	\$40.86	\$53.39	\$65.91	H H H H H H D Y
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Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWCII-Z1DCL	3/25/2008	\$40.61	\$53.01	\$65.41	H H H H H H D Y
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## Operating Engineer Hazardous Waste Crane w/ Boom & Jib leads 140' or longer

Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye	EN-324-HW140-Z1A	4/3/2008	\$49.99	\$67.08	\$84.17	H H H H H H D Y
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Level B & C protection. B - Pressure demand, full face SCBA or pressure demand supplied air respirator w/ escape SCBA w/chemical resistant clothing. C - Full face piece, air purifying canister-equipped respirator w/chemical resistant clothing.	EN-324-HW140-Z1B	3/24/2008	\$49.04	\$65.66	\$82.27	H H H H H H D Y
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Level D Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW140-Z1D	3/24/2008	\$47.74	\$63.71	\$79.67	H H H H H H D Y
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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision												
Name	Description																	
=====																		
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW140-Z1DCL 3/25/2008	\$47.49	\$63.33	\$79.17	H	H	H	H	H	H	H	H	H	D	Y			
<b>Operating Engineer Hazardous Waste Crane w/ Boom &amp; Jib leads 220' or longer</b>																		
Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye	EN-324-HW220-Z1A 4/3/2008	\$50.29	\$67.53	\$84.77	H	H	H	H	H	H	H	H	H	D	Y			
Level B & C protection. B - Pressure demand, full face SCBA or pressure demand supplied air respirator w/ escape SCBA w/chemical resistant clothing. C - Full face piece, air purifying canister-equipped respirator w/chemical resistant clothing.	EN-324-HW220-Z1B 3/24/2008	\$49.34	\$66.11	\$82.87	H	H	H	H	H	H	H	H	H	D	Y			
Level D Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW220-Z1D 3/24/2008	\$48.04	\$64.16	\$80.27	H	H	H	H	H	H	H	H	H	D	Y			
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW220-Z1DCL 3/25/2008	\$47.79	\$63.78	\$79.77	H	H	H	H	H	H	H	H	H	D	Y			
<b>Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Power Shovel Operator and Concrete Pump with boom</b>																		
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWRC-Z1DCL 3/25/2008	\$45.19	\$59.88	\$74.57	H	H	H	H	H	H	H	H	H	D	Y			
<b>Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Power Shovel Operator and Concrete Pump with Boom Operator</b>																		
Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWRC-Z1D 5/23/2008	\$46.06	\$61.19	\$76.31	H	H	H	H	H	H	H	H	H	D	Y			
<b>Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Power Shovel Operator and Concrete Pump with booms</b>																		
Level B & C protection. B - Pressure demand, full face SCBA or pressure demand supplied air respirator w/ escape SCBA w/chemical resistant clothing. C - Full face piece, air purifying canister-equipped respirator w/chemical resistant clothing.	EN-324-HWRC-Z1B 3/24/2008	\$47.36	\$63.14	\$78.91	H	H	H	H	H	H	H	H	H	D	Y			

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

County: Oakland

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# Official 2008 Prevailing Wage Rates for State Funded Projects

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision						
Name	Description											
=====												
<b>Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck Operator, Power Shovel Operators and Concrete Pump with booms</b>												
Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye	EN-324-HWRC-Z1A	4/3/2008	\$48.31	\$64.56	\$80.81	H	H	H	H	H	H	D Y
<b>Operating Engineer Steel Work</b>												
Forklift, 1 Drum Hoist	EN-324-ef	6/6/2008	\$52.96	\$70.75	\$88.53	H	H	D	H	H	H	D D Y
Crane w/ 120' boom or longer	EN-324-SW120	6/6/2008	\$55.01	\$73.82	\$92.63	H	H	D	H	H	H	D D Y
Crane w/ 120' boom or longer w/ Oiler	EN-324-SW120-O	6/6/2008	\$56.01	\$75.32	\$94.63	H	H	D	H	H	H	D D Y
Crane w/ 140' boom or longer	EN-324-SW140	6/6/2008	\$56.19	\$75.59	\$94.99	H	H	D	H	H	H	D D Y
Crane w/ 140' boom or longer W/ Oiler	EN-324-SW140-O	6/6/2008	\$57.19	\$77.09	\$96.99	H	H	D	H	H	H	D D Y
Boom & Jib 220' or longer	EN-324-SW220	6/6/2008	\$56.46	\$76.00	\$95.53	H	H	D	H	H	H	D D Y
Crane w/ 220' boom or longer w/ Oiler	EN-324-SW220-O	6/6/2008	\$57.46	\$77.50	\$97.53	H	H	D	H	H	H	D D Y
Boom & Jib 300' or longer	EN-324-SW300	6/6/2008	\$57.96	\$78.25	\$98.53	H	H	D	H	H	H	D D Y
Crane w/ 300' boom or longer w/ Oiler	EN-324-SW300-O	6/6/2008	\$58.96	\$79.75	\$100.53	H	H	D	H	H	H	D D Y
Boom & Jib 400' or longer	EN-324-SW400	6/6/2008	\$59.46	\$80.50	\$101.53	H	H	D	H	H	H	D D Y
Crane w/ 400' boom or longer w/ Oiler	EN-324-SW400-O	6/6/2008	\$60.46	\$82.00	\$103.53	H	H	D	H	H	H	D D Y

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<u>Classification</u>		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision	
Name	Description						
Crane Operator, Job Mechanic, 3 Drum Hoist & Excavator		EN-324-SWCO	\$54.65	\$73.28	\$91.91	H H D H H H D D Y	
		6/6/2008					
<b>Apprentice Rates:</b>							
0-999 hours		\$42.03	\$54.90	\$67.77			
1,000-1,999 hours		\$43.87	\$57.66	\$71.45			
2,000-2,999 hours		\$45.71	\$60.42	\$75.13			
3,000-3,999 hours		\$47.54	\$63.17	\$78.79			
4,000-4,999 hours		\$49.38	\$65.93	\$82.47			
5,000 hours		\$51.22	\$68.69	\$86.15			
Crane w/ Oiler		EN-324-SWCO-O	\$55.65	\$74.78	\$93.91	H H D H H H D D Y	
		6/6/2008					
Compressor or Welder Operator		EN-324-SWCW	\$47.20	\$62.11	\$77.01	H H D H H H D D Y	
		6/6/2008					
Hoisting Operator, 2 Drum Hoist, & Rubber Tire Backhoe		EN-324-SWHO	\$54.01	\$72.32	\$90.63	H H D H H H D D Y	
		6/6/2008					
Oiler		EN-324-SWO	\$45.79	\$59.99	\$74.19	H H D H H H D D Y	
		6/6/2008					
Tower Crane & Derrick where work is 50' or more above first level		EN-324-SWTD50	\$55.74	\$74.92	\$94.09	H H D H H H D D Y	
		6/6/2008					
Tower Crane & Derrick 50' or more w/ Oiler where work station is 50' or more above first level		EN-324-SWTD50-O	\$56.74	\$76.42	\$96.09	H H D H H H D D Y	
		6/6/2008					
<b>Operating Engineer Underground</b>							
Class I Equipment		EN-324A1-UC1	\$44.84	\$59.33	\$73.82	H H H H H H H D Y	
		10/8/2007					
<b>Apprentice Rates:</b>							
0-999 hours		\$36.05	\$46.20	\$56.34			
1,000-1,999 hours		\$37.50	\$48.37	\$59.24			
2,000-2,999 hours		\$38.94	\$50.53	\$62.12			
3,000-3,999 hours		\$40.39	\$52.71	\$65.02			
4,000-4,999 hours		\$41.84	\$54.88	\$67.92			
5,000-5,999 hours		\$43.29	\$57.06	\$70.82			
Class II Equipment		EN-324A1-UC2	\$40.11	\$52.24	\$64.36	H H H H H H H D Y	
		10/8/2007					
Class III Equipment		EN-324A1-UC3	\$39.38	\$51.14	\$62.90	H H H H H H H D Y	
		10/8/2007					
Class IV Equipment		EN-324A1-UC4	\$38.81	\$50.29	\$61.76	H H H H H H H D Y	
		10/8/2007					

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Classification			Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description						
Master Mechanic	EN-324A1-UMM		10/8/2007	\$45.09	\$59.71	\$74.32	H H H H H H D Y

## Painter

Painter (8 hours of repaint work performed on Sunday shall be paid time & one half rate)	PT-22-P		5/26/2006	\$38.01	\$50.24	\$62.47	H H D H D D D D N
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### Apprentice Rates:

First 6 months	\$25.78	\$31.89	\$38.01
Second 6 months	\$29.45	\$37.40	\$45.35
Third 6 months	\$30.67	\$39.23	\$47.79
Fourth 6 months	\$31.89	\$41.06	\$50.23
Fifth 6 months	\$33.12	\$42.91	\$52.69
Final 6 months	\$34.34	\$44.73	\$55.13

Sandblasting & spraywork performed, on highway bridges, overpasses, tanks or steel, OR spraywork & sandblasting done with a scaffold height of 40' above the floor level	PT-22-S		6/1/2006	\$38.81	\$51.44	\$64.07	H H D H D D D D N
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## Pipefitter

Pipefitter	PF-636		6/1/2007	\$55.06	\$74.14	\$89.96	H H D H D D D D N
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### Apprentice Rates:

1st & 2nd periods	\$26.28	\$34.63	\$41.63
3rd period	\$28.28	\$37.63	\$45.63
4th period	\$29.53	\$39.51	\$48.13
5th period	\$30.78	\$41.38	\$50.63
6th period	\$32.03	\$43.25	\$53.13
7th period	\$33.28	\$45.13	\$55.63
8th period	\$34.28	\$46.63	\$57.63
9th period	\$35.28	\$48.13	\$59.63
10th period	\$36.71	\$50.27	\$62.49

## Plasterer

Plasterer	BR1P		12/19/2007	\$42.89	\$64.34	\$85.78	H H H H H H D N
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### Apprentice Rates:

1st 6 months	\$21.97	\$32.96	\$43.94
2nd 6 months	\$25.46	\$38.19	\$50.92
3rd 6 months	\$28.95	\$43.42	\$57.90
4th 6 months	\$32.43	\$48.65	\$64.86
5th 6 months	\$35.92	\$53.88	\$71.84
6th 6 months	\$39.40	\$59.10	\$78.80

Official Request #: 898

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					

Plasterer	PL67	6/4/2007	\$42.87	\$58.16	\$73.45	H H H X D D D N
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## Apprentice Rates:

1st 6 months	\$24.52	\$30.63	\$36.75
2nd 6 months	\$27.58	\$35.23	\$42.87
3rd 6 months	\$30.64	\$39.81	\$48.99
4th 6 months	\$33.70	\$44.41	\$55.11
5th 6 months	\$36.75	\$48.98	\$61.21
6th 6 months	\$39.81	\$53.57	\$67.33

## Plumber

Plumber	PL-98	6/20/2007	\$53.68	\$71.45	\$87.21	H H D H D D D Y
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## Apprentice Rates:

Period 1	\$17.11	\$23.41	\$29.71
Period 2	\$17.11	\$23.41	\$29.71
Period 3	\$26.78	\$35.13	\$43.47
Period 4	\$27.41	\$36.07	\$44.73
Period 5	\$28.57	\$37.81	\$47.05
Period 6	\$29.72	\$39.53	\$49.35
Period 7	\$30.87	\$41.26	\$51.65
Period 8	\$32.04	\$43.01	\$53.99
Period 9	\$33.19	\$44.74	\$56.29
Period 10	\$34.35	\$46.48	\$58.61

## Roofer

Commercial Roofer	RO-149-WOM	9/4/2007	\$46.81	\$60.92	\$75.02	H H D H H H D N
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Straight time is not to exceed ten (10) hours per day or forty (40) hours per week.

## Apprentice Rates:

Apprentice 1	\$30.97	\$39.16	\$47.34
Apprentice 2	\$35.15	\$43.42	\$51.70
Apprentice 3	\$36.57	\$45.56	\$54.54
Apprentice 4	\$37.60	\$47.10	\$56.60
Apprentice 5	\$38.82	\$48.93	\$59.04
Apprentice 6	\$40.22	\$51.03	\$61.84

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
=====						
<b>Sheet Metal Worker</b>						
Sheet Metal Worker	SHM-80		\$55.37	\$73.66	\$91.95	H H D H D D D D Y
		10/2/2007				
<b>Apprentice Rates:</b>						
First Year		\$36.96	\$46.34	\$55.71		
Second Year		\$38.37	\$48.45	\$58.53		
Third Year		\$39.80	\$50.60	\$61.39		
Fourth Year		\$42.65	\$54.87	\$67.09		
Fifth Year		\$45.52	\$59.18	\$72.83		
Siding & Decking	SHM-80-SD		\$37.10	\$49.16	\$61.22	H H H H H H D Y
		10/1/2007				
<b>Sprinkler Fitter</b>						
Sprinkler Fitter	SP 704		\$55.92	\$75.26	\$94.60	H H D H D D D D Y
		12/5/2007				
<b>Apprentice Rates:</b>						
1st Period		\$22.82	\$30.55	\$38.29		
2nd Period		\$34.65	\$43.36	\$52.06		
3rd Period		\$36.58	\$46.25	\$55.92		
4th Period		\$38.51	\$49.14	\$59.78		
5th Period		\$40.45	\$52.06	\$63.66		
6th Period		\$42.38	\$54.95	\$67.52		
7th Period		\$44.32	\$57.86	\$71.40		
8th Period		\$46.25	\$60.76	\$75.26		
9th Period		\$48.18	\$63.65	\$79.12		
10th Period		\$50.12	\$66.56	\$83.00		
<b>Terrazzo</b>						
Terrazzo Finisher	TT32-TRF		\$39.97	\$50.50	\$61.03	H H D H D D D D N
		7/25/2007				
<b>Apprentice Rates:</b>						
Level 1		\$20.29	\$26.40	\$32.50		
Level 2		\$21.00	\$27.46	\$33.92		
Level 3		\$24.60	\$31.17	\$37.73		
Level 4		\$25.94	\$33.17	\$40.41		
Level 5		\$27.31	\$34.76	\$42.20		
Level 6		\$28.78	\$36.40	\$44.02		
Level 7		\$30.32	\$38.32	\$46.32		
Level 8		\$31.68	\$39.94	\$48.20		

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<u>Classification</u>	Name      Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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	Terrazzo Worker	TT32-TRW	\$45.29	\$58.48	\$71.67	H H D H D D D D N
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7/25/2007

**Apprentice Rates:**

Level 1	\$24.76	\$31.75	\$38.73
Level 2	\$27.55	\$35.28	\$43.01
Level 3	\$30.40	\$38.42	\$46.44
Level 4	\$32.90	\$41.81	\$50.72
Level 5	\$35.00	\$44.31	\$53.61
Level 6	\$38.34	\$49.13	\$59.91
Level 7	\$39.44	\$50.63	\$61.83
Level 8	\$40.29	\$51.91	\$63.53

**Tile**

Tile Finisher	TT32-TF	\$39.59	\$49.93	\$60.27	H H D H D D D D N
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7/25/2007

**Apprentice Rates:**

Level 1	\$19.20	\$24.76	\$30.32
Level 2	\$20.30	\$26.41	\$32.52
Level 3	\$24.57	\$31.12	\$37.67
Level 4	\$25.91	\$33.13	\$40.35
Level 5	\$27.28	\$34.71	\$42.14
Level 6	\$28.75	\$36.56	\$44.36
Level 7	\$30.29	\$38.15	\$46.01
Level 8	\$31.65	\$39.77	\$47.89

Tile Layer	TT32-TL	\$45.19	\$58.33	\$71.47	H H D H D D D D N
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7/25/2007

**Apprentice Rates:**

Level 1	\$24.76	\$31.75	\$38.73
Level 2	\$27.55	\$35.28	\$43.01
Level 3	\$30.40	\$38.42	\$46.44
Level 4	\$32.90	\$41.81	\$50.72
Level 5	\$34.95	\$44.10	\$53.26
Level 6	\$38.29	\$49.05	\$59.81
Level 7	\$38.89	\$49.81	\$60.73
Level 8	\$39.74	\$51.09	\$62.43

**Truck Driver**

on all trucks of 8 cubic yard capacity or less	TM-RB1	\$34.76	\$36.44	H H H H H H H Y
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7/24/2007

of all trucks of 8 cubic yard capacity or over	TM-RB1A	\$34.86	\$36.59	H H H H H H H Y
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7/24/2007

on euclid type equipment	TM-RB1B	\$35.01	\$36.81	H H H H H H H Y
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7/24/2007

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Name	Description					
=====						
<b>Underground Laborer Open Cut, Class I</b>						
Construction Laborer	LAUC-Z1-1	9/6/2007	\$33.39	\$44.07	\$54.75	H H H H H H D Y
<b>Apprentice Rates:</b>						
0-1,000 work hours		\$28.59	\$36.87	\$45.15		
1,001-2,000 work hours		\$29.55	\$38.31	\$47.07		
2,001-3,000 work hours		\$30.51	\$39.75	\$48.99		
3,001-4,000 work hours		\$32.43	\$42.63	\$52.83		
<b>Underground Laborer Open Cut, Class II</b>						
Mortar and material mixer, concrete form man, signal man, well point man, manhole, headwall and catch basin builder, guard rail builders, headwall, seawall, breakwall, dock builder and fence erector.	LAUC-Z1-2	9/6/2007	\$33.50	\$44.24	\$54.97	H H H H H H D Y
<b>Apprentice Rates:</b>						
0-1,000 work hours		\$28.68	\$37.01	\$45.33		
1,001-2,000 work hours		\$29.64	\$38.45	\$47.25		
2,001-3,000 work hours		\$30.60	\$39.89	\$49.17		
3,001-4,000 work hours		\$32.54	\$42.80	\$53.05		
<b>Underground Laborer Open Cut, Class III</b>						
Air, gasoline and electric tool operator, vibrator operator, drillers, pump man, tar kettle operator, bracers, rodder, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars, etc.), cement finisher, welder, pipe jacking and boring man, wagon drill and air track operator and concrete saw operator (under 40 h.p.), windlass and tugger man, and directional boring man.	LAUC-Z1-3	9/6/2007	\$33.55	\$44.31	\$55.07	H H H H H H D Y
<b>Apprentice Rates:</b>						
0-1,000 work hours		\$28.71	\$37.05	\$45.39		
1,001-2,000 work hours		\$29.68	\$38.51	\$47.33		
2,001-3,000 work hours		\$30.65	\$39.97	\$49.27		
3,001-4,000 work hours		\$32.58	\$42.86	\$53.13		
<b>Underground Laborer Open Cut, Class IV</b>						
Trench or excavating grade man.	LAUC-Z1-4	9/6/2007	\$33.63	\$44.43	\$55.23	H H H H H H D Y
<b>Apprentice Rates:</b>						
0-1,000 work hours		\$28.77	\$37.15	\$45.51		
1,001-2,000 work hours		\$29.74	\$38.60	\$47.45		
2,001-3,000 work hours		\$30.72	\$40.07	\$49.41		
3,001-4,000 work hours		\$32.66	\$42.98	\$53.29		

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Name	Description					
=====						
<b>Underground Laborer Open Cut, Class V</b>						
Pipe Layer		LAUC-Z1-5		\$33.69	\$44.52	\$55.35 H H H H H H D Y
		9/6/2007				
	<b>Apprentice Rates:</b>					
	0-1,000 work hours	\$28.82	\$37.22	\$45.61		
	1,001-2,000 work hours	\$29.79	\$38.67	\$47.55		
	2,001-3,000 work hours	\$30.77	\$40.15	\$49.51		
	3,001-4,000 work hours	\$32.72	\$43.07	\$53.41		
<b>Underground Laborer Open Cut, Class VI</b>						
Grouting man, top man assistant, audio visual television		LAUC-Z1-6		\$31.14	\$40.70	\$50.25 H H H H H H D Y
operations and all other operations in connection with		9/6/2007				
closed circuit television inspection, pipe cleaning and pipe						
relining work and the installation and repair of water						
service pipe and appurtenances.						
	<b>Apprentice Rates:</b>					
	0-1,000 work hours	\$26.90	\$34.34	\$41.77		
	1,001-2,000 work hours	\$27.75	\$35.61	\$43.47		
	2,001-3,000 work hours	\$28.60	\$36.89	\$45.17		
	3,001-4,000 work hours	\$30.29	\$39.43	\$48.55		
<b>Underground Laborer Open Cut, Class VII</b>						
Restoration laborer, seeding, sodding, planting, cutting,		LAUC-Z1-7		\$27.76	\$35.63	\$43.49 H H H H H H D Y
mulching and topsoil grading and the restoration of		9/6/2007				
property such as replacing mail boxes, wood chips, planter						
boxes, flagstones etc.						
	<b>Apprentice Rates:</b>					
	0-1,000 work hours	\$24.37	\$30.55	\$36.71		
	1,001-2,000 work hours	\$25.05	\$31.57	\$38.07		
	2,001-3,000 work hours	\$25.73	\$32.59	\$39.43		
	3,001-4,000 work hours	\$27.08	\$34.61	\$42.13		

Official Request #: 898

Requestor: TROY SCHOOL DISTRICT

Project Description: UNDERGROUND STORAGE TANK REPLACEMENT

Project Number: TRANSPORTATION DEPT.

County: Oakland

## Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.



STATE OF MICHIGAN

JENNIFER M. GRANHOLM  
GOVERNOR

DEPARTMENT OF LABOR & ECONOMIC GROWTH  
LANSING

KEITH W. COOLEY  
DIRECTOR

Michigan Department of Labor & Economic Growth *Wage & Hour Division*  
**OVERTIME PROVISIONS for MICHIGAN PREVAILING WAGE RATE SCHEDULE**

- Overtime is represented as a nine character code. Each character represents a certain period of time after the first 8 hours Monday thru Friday.

	Monday thru Friday	Saturday	Sunday & Holidays
First 8 Hours		4	8
9th Hour	1	5	
10th Hour	2	6	
Over 10 hours	3	7	

Overtime for Monday thru Friday after 8 hours:

the 1st character is for time worked in the 9th hour (8.1 - 9 hours)

the 2nd character is for time worked in the 10th hour (9.1 - 10 hours)

the 3rd character is for time worked beyond the 10th hour (10.1 and beyond)

Overtime on Saturday:

the 4th character is for time worked in the first 8 hours on Saturday (0 - 8 hours)

the 5th character is for time worked in the 9th hour on Saturday (8.1 - 9 hours)

the 6th character is for time worked in the 10th hour (9.1 - 10 hours)

the 7th character is for time worked beyond the 10th hour (10.01 and beyond)

Overtime on Sundays & Holidays

The 8th character is for time worked on Sunday or on a holiday

The last character indicates if an optional 4-day 10-hour per day workweek can be worked without paying overtime after 8 hours worked.

- Overtime Indicators Used in the Overtime Provision:

H - means TIME AND ONE-HALF due

X - means TIME AND ONE-HALF due after 40 HOURS worked

D - means DOUBLE PAY due

Y - means YES an optional 4-day 10-hour per day workweek can be worked without paying overtime after 8 hours worked

N - means NO an optional 4-day 10-hour per day workweek *can not* be worked without paying overtime after 8 hours worked

- EXAMPLES:

HHHHHHHDN - This example shows that the 1½ rate must be used for time worked after 8 hours Monday thru Friday (*characters 1 - 3*); for all hours worked on Saturday, 1½ rate is due (*characters 4 - 7*). Work done on Sundays or holidays must be paid double time (*character 8*). The N (*character 9*) indicates that 4 ten-hour days is not an acceptable workweek at regular pay.

XXXHHHHHDY - This example shows that the 1½ rate must be used for time worked after 40 hours are worked Monday thru Friday (*characters 1-3*); for hours worked on Saturday, 1½ rate is due (*characters 4 - 7*). Work done on Sundays or holidays must be paid double time (*character 8*). The Y (*character 9*) indicates that 4 ten-hour days is an acceptable alternative workweek.

(REV 01/15/08)

WAGE & HOUR DIVISION

P.O. BOX 30476 • LANSING, MICHIGAN 48909-7976

www.michigan.gov/wagehour • (517) 335-0400 • FAX (517) 335-0077



JENNIFER M. GRANHOLM  
GOVERNOR

**Michigan Department of Labor & Economic Growth**  
**Wage & Hour Division**  
**PO Box 30476**  
**Lansing , MI 48909-7976**  
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**[www.michigan.gov/wagehour](http://www.michigan.gov/wagehour)**



KEITH W. COOLEY  
DIRECTOR

***Informational Sheet: Prevailing Wages on State Projects***  
**General Information Regarding Fringe Benefits**

**Certain** fringe benefits **may** be credited toward the payment of the Prevailing Wage Rate:

- If a fringe benefit is paid directly to a construction mechanic
- If a fringe benefit contribution or payment is made on behalf of a construction mechanic
- If a fringe benefit, which may be provided to a construction mechanic, is pursuant to a written contract or policy
- If a fringe benefit is paid into a fund, for a construction mechanic

When a fringe benefit is not paid by an hourly rate, the hourly credit will be calculated based on the annual value of the fringe benefit divided by 2080 hours per year (52 weeks @ 40 hours per week).

The following is an example of the types of fringe benefits allowed and how an hourly credit is calculated:

Vacation	40 hours X \$14.00 per hour = \$560/2080 =	\$ .27
Dental insurance	\$31.07 monthly premium X 12 mos. = \$372.84 /2080 =	\$.18
Vision insurance	\$5.38 monthly premium X 12 mos. = \$64.56/2080 =	\$.03
Health insurance	\$230.00 monthly premium X 12 mos. = \$2,760.00/2080 =	\$1.33
Life insurance	\$27.04 monthly premium X 12 mos. = \$324.48/2080 =	\$.16
Tuition	\$500.00 annual cost/2080 =	\$.24
Bonus	4 quarterly bonus/year x \$250 = \$1000.00/2080 =	\$.48
401k Employer Contribution	\$2000.00 total annual contribution/2080 =	\$.96
<b>Total Hourly Credit</b>		<b>\$3.65</b>

Other examples of the types of fringe benefits allowed:

- Sick pay
- Holiday pay
- Accidental Death & Dismemberment insurance premiums

The following are examples of items that **will not** be credited toward the payment of the Prevailing Wage Rate

- Legally required payments, such as:
  - Unemployment Insurance payments
  - Workers' Compensation Insurance payments
  - FICA (Social Security contributions, Medicare contributions)
- Reimbursable expenses, such as:
  - Clothing allowance or reimbursement
  - Uniform allowance or reimbursement
  - Gas allowance or reimbursement
  - Travel time or payment
  - Meals or lodging allowance or reimbursement
  - Per diem allowance or payment
- Other payments to or on behalf of a construction mechanic that are not wages or fringe benefits, such as:
  - Industry advancement funds
  - Financial or material loans

**Troy Schools UST Removal and Replacement Bid Comparison Table**  
**RFQ: 9538**

<u>Mandatory Task</u>	<u>Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Extended Unit Price</u>		
				<u>OWL</u>	<u>MES</u>	<u>JSS</u>
1	HASP	1	l.s.	\$50.00	\$5,810.32	\$250.00
2	Day Tank	1	l.s.	\$800.00	\$4,017.90	\$750.00
3	Dispose Pvm.	27*	ton	\$648.00	\$704.97	\$1,032.75
4	Backfill	895*	ton	\$20,406.00	\$22,231.80	\$13,067.00
5	Tank Disp.	1	l.s.	\$6,000.00	\$8,656.48	\$8,550.00
6	Tank Install.	1	l.s.	\$98,611.00	\$105,043.60	\$140,500.00
7	Restoration	1	l.s.	\$5,200.00	\$1,888.00	\$26,300.00
<u>Mandatory Subtotal</u>				<b>\$131,715.00</b>	<b>\$148,353.07</b>	<b>\$190,449.75</b>
<u>Optional Task</u>	<u>Item</u>					
8	Monitor Syst.	1	l.s.	\$5,600.00	\$3,304.00	\$5,975.00
9	Light	1	l.s.	\$5,000.00	\$5,664.00	\$750.00
10	Water S&D	1000*	gallon	\$200.00	\$1,180.00	\$300.00
11	Fuel Mgmt. Syst.	1	l.s.	\$9,921.00	\$15,222.00	\$10,700.00
<u>Optional Subtotal</u>				<b>\$20,721.00</b>	<b>\$25,370.00</b>	<b>\$17,725.00</b>
<u>Grand Totals**</u>				<b>\$152,436.00</b>	<b>\$173,723.07</b>	<b>\$208,174.75</b>

\*= Estimated Quantity

\*\*= This is a cost estimate for bid comparison purposes only. This is not meant to be an expression of the total cost of the project.