

December 14, 2006  
Bids

# Project Manual

## Troy School District School Technology Systems Voice Communications System TSD Bid No. 9377

For The

Troy School District  
4400 Livernois  
Troy, Michigan 48098

### **Integrated Design Solutions LLC**

Architecture, Engineering, Interiors & Technology  
888 W Big Beaver, Suite 200  
Troy, Michigan 48084  
248.823.2100  
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[www.ids-troy.com](http://www.ids-troy.com)

TSD Bid No. 9377  
IDS Project No. 03234-1000 BP22  
W&H project No. 06-TSD-VCS-01

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**SECTION 00100 - ADVERTISEMENT FOR BIDS**

**DATE:** December 14, 2006

**PROJECT:** Troy School District  
School Technology Systems  
Voice Communications System  
TSD Bid No. 9377  
Troy, Michigan

**OWNER:** Troy School District  
4400 Livernois  
Troy, Michigan 48098

**ARCHITECT:** Integrated Design Solutions, LLC  
Architecture, Engineering, Interiors & Technology  
888 W. Big Beaver, Suite 200  
Troy, MI 48084  
(248) 823-2100  
(248) 823-2200 fax

**BIDS RECEIVED:** Until 3:00 pm local time on January 11, 2006, the Owner will receive sealed Bids for the work as set forth in the Bidding Documents at:  
Troy School District  
Purchasing Department  
1140 Rankin  
Troy, Michigan 48083

ATTN: Frank Lams  
Purchasing Supervisor

At which time and place all Bids will be publicly opened and read aloud. A bid tabulation summary will be available.

The Bidding Documents will be on file on and after December 14, 2006 and may be examined at the following locations during regular business hours, Monday through Friday.

The offices of: Integrated Design Solutions, LLC, 888 W. Big Beaver, Suite 200, Troy, Michigan 48084, (248) 823-2100.

Bid documents can be found on the Troy School District web site as follows:  
[www.troy.k12.mi.us/purchasing/items\\_out\\_for\\_bid.htm](http://www.troy.k12.mi.us/purchasing/items_out_for_bid.htm)

A mandatory pre-bid conference is scheduled for Thursday, December 21, 2006 at 1:00 PM local time. All Bidders are required to attend. Bidders shall meet at Troy School District Services Building, 4420 Livernois Troy, Michigan, 48098. Bids will not be accepted from Bidders who do not attend the pre-bid conference.

Each Bid shall be accompanied by a Bid Security in the form of a certified check, cashier's check, money order or bid bond made payable to Troy School District in an amount not less than five percent (5%) of the base bid as a Bid guarantee.

Troy School District  
School Technology Systems  
Voice Communications System  
TSD Bid No. 9377  
Troy, Michigan

IDS Project No.03234-1000 BP22  
W&H Project No. 06-TSD-VCS-01

The successful Bidder shall provide a Performance Bond and a Labor and Material Payment Bond covering the faithful performance of the Contract and payment of all obligations arising there under, each in the amount of one hundred percent (100%) of the contract amount. The cost of such bonds shall be included in the Bid.

The bid security of Bidders under consideration will be returned immediately after execution of the Contract by the Owner. The amount of the bid security shall be forfeited to the Owner if the successful Bidder fails to enter into a contract and furnish required bonds and insurance certificates within ten (10) days after award of Contract.

Withdrawal of any Bid is prohibited for a period of sixty (60) days after the actual date of the opening thereof.

Each Bidder agrees to waive any claim it has or may have with the Owner, the Architect and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid.

The Owner reserves the right to reject any or all Bids, either in whole or in part, to reject a Bid not accompanied by the required bid security or by other data required by the Bidding Documents or to reject a Bid which is any way incomplete or irregular and to waive informality and irregularity in the bids and in the bidding.

The Owner reserves the right to accept Alternates in any order or combination and to determine the low Bidder on the basis of the sum of the base bid and the Alternates accepted.

**END OF ADVERTISEMENT FOR BIDS**

## SECTION 00200 - INSTRUCTIONS TO BIDDERS

### 1. DEFINITIONS

- A. Bidding Documents include the Bidding Requirements and the proposed Contract Documents. The Bidding Requirements consist of the Advertisement for Bids, Instruction to Bidders, the Bid Form and other bidding and contract forms. The proposed Contract Documents consist of the form of an Agreement between Owner and Contractor, General Conditions of the Contract for Construction, Supplementary and other Conditions, Specifications, Drawings and Addenda issued prior to execution of the Contract.
- B. Addenda are written or graphic instruments issued by the Architect prior to the execution of the Contract, which modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections.
- C. A Bidder is a person or entity who submits a Bid.
- D. A Bid is a complete and properly signed proposal to do the work for the sums stipulated there in submitted in accordance with the Bidding Documents.
- E. The Base Bid is the amount stated in the Bid for which the Bidder offers to perform the work as described in the Bidding Documents as the base, to which work may be added to or deleted from, for the amounts stated in the Alternates.
- F. An Alternate is an amount stated in the Bid Form to be added to or deducted from the amount of the Base Bid if the described Alternate is accepted.
- G. A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment or services or a portion of the work as described in the Bidding Documents.

### 2. SECURING BIDDING DOCUMENTS

- A. Only complete sets of Bidding Documents will be furnished. The Owner or Architect assumes no responsibility for errors or misinterpretations resulting from use of incomplete sets of Bidding Documents.
- B. Bidding Documents remain the property of the Architect.
- C. Bid documents can be found on the Troy School District web site as follows:  
[www.troy.k12.mi.us/purchasing/items\\_out\\_for\\_bid.htm](http://www.troy.k12.mi.us/purchasing/items_out_for_bid.htm)
- D. Questions regarding this bid should be submitted to:

Bill Craig c/o Wright & Hunter 330 Hamilton Birmingham MI 48009 (bcraig@wriighthunter.com)

### 3. PREPARATION AND SUBMISSION OF BIDS

- A. The wages and fringe benefits to be paid to each class of worker shall not be less than the wage and fringe benefit rates prevailing in the locality in which the work is to be performed, in accordance with Act 166 of the State of Michigan Public Acts of 1965 as amended (Prevailing Wage Law).

- B. Bids shall be submitted on forms bound in the Project Manual of the Bidding Documents.
- C. All blanks on the Bid Form must be filled in by typewriter or by hand in ink.
- D. Amounts shall be expressed in both words and figures. In case of a discrepancy the amount stated in words shall govern.
- E. Alterations by erasure or interlineations must be initialed by the Bidder.
- F. All Alternates must be bid. If no change in the Base Bid is required, enter "No Change."
- G. Submit the Bid, along with the bid security and any other documents required to be submitted with the Bid, to the Owner, and deliver to the address given in the Advertisement for Bids on or before the day and hour set for receipt of the Bids.
  - 1. Enclose each Bid in a sealed opaque envelope bearing the title of the work Edge and Core Network Equipment, TSD Bid No. 9377 the name of the Bidder, and the date and hour of the Bid opening, with the notation "SEALED BID ENCLOSED".
  - 2. Do not change the wording of the Bid Form, and do not add words to, or delete words from the Bid Form.
  - 3. Unauthorized conditions, limitations, or provisions attached to the Bid will be cause for rejection of the Bid.
  - 4. Submit only duplicate signed copies of the Bid.
  - 5. It is the sole responsibility of the Bidder to see that his bid is received on time.
  - 6. Telephonic, telegraphic, facsimile (fax), or e-mail Bids or telephonic, telegraphic, facsimile (fax) or e-mail modification of a Bid will not be considered.
  - 7. Bids received after the time fixed for receiving them will not be considered and will be returned to the Bidder unopened.
  - 8. Properly identified Bids received on time will be publicly opened and read aloud. A bid tabulation summary will be available.
  - 9. The "AFFIDAVIT OF BIDDER" found in the bid form must be completed.
- H. The Bidder in submitting a Bid represents that:
  - 1. The Bidder has read and understands the Bidding Documents, including the Drawings, Specifications and other proposed Contract Documents.
  - 2. The Bid is made in compliance with the Bidding Documents.
  - 3. The Bidder has visited the site of the Work and become informed as to existing conditions and limitations under which the Work is to be performed and included in their Bid a sum to cover the cost necessary to perform the Work as set forth in the Bidding Documents. No allowance will be made to a Bidder because of a lack of such examination or knowledge.
  - 4. The Bid is based upon materials, equipment and systems required by the Bidding Documents without exception and without substitutions.

#### 4. **BID SECURITY AND BONDS**

- A. Each bid shall be accompanied by a certified check, cashier's check, money order or bid bond made payable to Troy School District in an amount not less than five percent (5%) of the Base Bid as a proposal guarantee. Bid Bond shall be provided by a company licensed to do business in the State of Michigan.

- B. The successful Bidder shall provide a Performance Bond and a Labor and Material Payment Bond, covering the faithful performance of the Contract and payment of all obligations arising there under, each in the amount of one hundred percent (100%) of the contract amount. Bonds shall be provided by a company licensed to do business in the State of Michigan. The cost of such bonds shall be included in the Bid.
- C. The Bidder shall deliver the required bonds to the Owner not later than three days following the date of execution of the Contract. If the Work is to be commenced prior thereto in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished and delivered in accordance with this paragraph.
- D. Should the Bidder refuse to enter into a Contract or fail to furnish such bonds, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty.
- E. The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until either the Contract has been executed and bonds have been furnished or the specified time has elapsed so that the Bid may be withdrawn or all Bids have been rejected.

**5. MODIFICATIONS AND WITHDRAWAL OF BIDS**

- A. A Bidder may not modify, withdraw or cancel a Bid, for a period of sixty (60) days following the time and date designated for receipt of Bids, and by submitting a Bid each Bidder shall so agree.
- B. A Bidder may withdraw their Bid, either personally or by written request, at any time prior to the scheduled time for receipt of bids. A withdrawn Bid may be resubmitted up to the date and time designated for receipt of Bids.
- C. Prior to the time and date for receipt of Bids, a Bidder may modify a Bid by notice to the party receiving Bids, at the place designated for receipt of Bids. Such notice shall be in writing over the signature of the Bidder. Written confirmation over the signature of the Bidder shall be received, and date and time stamped by the receiving party on or before the date and time set for receipt of Bids. A change shall be worded as not to reveal the amount of the original Bid.

**6. CONSIDERATION OF BIDS**

- A. The Owner reserves the right to reject any or all Bids submitted either in whole or part, to reject a bid not accompanied by the required Bid security or by other data required by the Bidding Documents or to reject a Bid which is any way incomplete or irregular and to waive informality and irregularity in the Bids and in the Bidding.
- B. The Owner reserves the right to accept alternates in any order or combination and to determine the low Bidder on the basis of the sum of the Base Bid and the alternates accepted.
- C. The Owner reserves the right to negotiate with any Bidder without rebidding the project in whole or in part.
- D. The Owner reserves the right to award the Contract to whom ever it may elect.

**7. EXECUTION OF AGREEMENT**

- A. The successful Bidder will be required to execute AIA Standard Form of Agreement between Owner and Contractor, AIA Document A101-1997 in conjunction with the General Conditions of the Contract for Construction, AIA Document A201-1997. The owner will issue an owner's Purchase Order for the owner's accounting purposes only.
- B. The Bidder to whom the Contract is awarded shall, within five (5) calendar days after notice of award and receipt of Agreement forms from the Owner, sign and deliver required copies to the Owner.
- C. At or prior to delivery of the signed Agreement, the Bidder to whom the Contract is awarded shall deliver to the Owner those Certificates of Insurance required by the Owner.
- D. The Owner shall approve Bonds and Certificates of Insurance before the successful Bidder may proceed with the Work. Failure or refusal to provide Bonds or Certificates of Insurance in a form satisfactory to the Owner shall subject the successful Bidder to loss of time from the allowable construction period equal to the time of delay in furnishing the required material.

**8. INTERPRETATION OF CONTRACT DOCUMENTS PRIOR TO BIDDING**

- A. Bidders shall study and compare the Bidding Documents with each other, shall examine the site and local conditions and if in doubt as to the true meaning of any part of the Bidding Documents, or finds discrepancies, inconsistencies, ambiguities or errors in or omissions from any part of the Bidding Documents, the Bidder may submit to the Architect a written request for interpretation thereof not later than seven days before bids will be opened. The person submitting the request shall be responsible for its prompt delivery.
- B. Interpretation, connection or changes to the proposed Contract Documents will be made only by Addendum. Explanations, interpretations, corrections or changes of the Bidding Documents by any other method will not be binding.

**9. ADDENDA**

- A. Addenda will be transmitted to all who are known by the Architect to have received a complete set of Bidding Documents.
- B. Copies of Addenda will be made available for inspection wherever Bidding Documents are on file.
- C. Addenda will be issued no later than four (4) days prior to the date for receipt of Bids, except an Addendum withdrawing the request for Bids or one which postpones the date for receipt of Bids.
- D. Each Bidder shall ascertain prior to submitting his bid that he has received all Addenda issued and shall acknowledge their receipt on the Bid Form.

**10. SUBSTITUTIONS**

- A. No substitutions will be considered prior to receipt of Bids, unless a written request for approval has been received by the Architect at least ten (10) days prior to the date for receipt of Bids. Such request for substitutions shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings, performance and test data, samples and other information necessary for an evaluation. A statement setting forth changes in other materials, equipment or other portions of the Work, shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.
- B. If the Architect approves a proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum.
- C. No substitutions will be considered after Contract award unless specifically provided for in the Contract Documents.

**11. TAXES**

- A. For the purposes of this bid, the Troy School District is tax exempt. Do not include Federal, State or local taxes in the Bid. The Owner's federal and state tax exempt number is B38.600.3099. Usage taxes shall be included in the base bid price.

**12. PERMITS AND FEES**

- A. All Bids shall include costs of all applicable permits and fees.

**13. TIME OF COMPLETION**

- A. The Bidder, if awarded the Contract, agrees to complete the Work on or before the Contract Completion Date stated in the Bid Form.

**14. EQUAL OPPORTUNITY**

- A. The Contractor and the Contractor's Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin. The Contractor shall take affirmative action to insure that applicants are employed, and that employees are treated during employment without regard to their race, religion, color, sex or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of non-discrimination.
- B. The Contractor and the Contractor's Subcontractors shall, in all solicitations or advertisements for employees placed by them or on their behalf, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex or national origin.

**END OF SECTION 00200**

Troy School District  
School Technology Systems  
Voice Communications System  
TSD Bid No. 9377  
Troy, Michigan

IDS Project No.03234-1000 BP22  
W&H Project No. 06-TSD-VCS-01

**SECTION 00410 - BID FORM**

**OWNER:** Troy School District  
4400 Livernois  
Troy, Michigan 48098

**PROJECT:** Troy School District  
School Technology Systems  
Voice Communications System  
TSD Bid No. 9377  
Troy, Michigan

**ARCHITECT:** Integrated Design Solutions, LLC  
Architecture, Engineering, Interiors & Technology  
888 W. Big Beaver Road, Suite 200  
Troy, Michigan 48084  
(248) 823-2100  
(248) 823-2200 fax

**NAME OF BIDDER:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**BID**

Pursuant to and in compliance with your Advertisement for Bids Instructions to Bidders and other documents relating thereto, the undersigned proposes and agrees to furnish equipment, materials, and labor and perform all work necessary to complete the Troy School District Contract for the Voice Communications System, TSD Bid No. 9377 Project in accordance with the Drawings and Specifications prepared by Integrated Design Solutions, LLC dated December 14, 2006 and agrees to accept payment as herein provided.

**BASE BID**

Lump sum bid for all work specified and shown on the Drawings as indicated for base bid  
\_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

**NOTE:** The amount shall be shown in both words and figures. In case of a discrepancy, the amount shown in words shall govern.

**ALTERNATES**

The foregoing Base Bid may be increased or decreased by the amounts herein quoted for Alternates specified in Section 16740. The following alternate prices shall include all charges for labor, material, and equipment, bonds, overhead and profit, general conditions, supervision, insurance, taxes, and incidental expenses.

Alternate No. 1: Remove the server hardware included in base bid and provide required specifications for Unified Messaging server to be provided by TSD.

Add/Deduct \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

Alternate No. 2: Remove the two (2) fiber Muxes.

Add/Deduct \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

Alternate No. 3: Remove new Unified Messaging and reuse existing voice mail system.

Add/Deduct \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

Alternate No. 4: Provide centralized training in place of per site training, for Unified Messaging.

Add/Deduct \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

Alternate No. 5: Increase Unified Messaging to 36 ports. License and storage to remain the same.

Add/Deduct \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

Alternate No. 6: Deduct to have Owner place all telephone sets.

Add/Deduct \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

**UNIT PRICES**

The Bidder proposes unit prices in accordance with the following schedule. Said unit prices shall include all charges for labor, materials and equipment, overhead and profit, general conditions, supervision, insurance, taxes and incidental expenses.

Said unit prices shall be applicable to the pricing of additions to, or deletions from, the work indicated in the Contract Documents.

UP No. 1: Unified Messaging user license \$ \_\_\_\_\_

UP No 2: IP Multi-line Telephones

Model \_\_\_\_ \$ \_\_\_\_\_

Model \_\_\_\_ \$ \_\_\_\_\_

Model \_\_\_\_ \$ \_\_\_\_\_

Model \_\_\_\_ \$ \_\_\_\_\_

IP Single Line Telephone

Model \_\_\_\_ \$ \_\_\_\_\_

IP Telephone user license \$ \_\_\_\_\_

Wireless Handset Model \_\_\_\_ \$ \_\_\_\_\_

Wireless Common Equipment required  
To support 4 wireless handsets \$ \_\_\_\_\_

Soft Phone (System Pricing) \_\_\_\_ # of users \$ \_\_\_\_\_

Soft Phone (User Pricing) \$ \_\_\_\_\_

Optional Fax Mail - # of ports \_\_\_\_ \$ \_\_\_\_\_

**TAXES**

For the purposes of this bid, the Troy School District is tax exempt. Do not include Federal, State or local taxes in the Bid. The Owner's federal and state tax-exempt number is B38.600.3099. Usage taxes shall be included in the base bid price.

**BID SECURITY**

Accompanying this Bid is a certified check, cashier's check, money order or bid bond (cross out those not applicable) made payable to Troy School District in the amount of five percent (5%), of Base Bid, which shall be retained by the Owner as liquidated damages, if the undersigned fails to execute the contract within ten (10) days of award of the Contract.

**ADDENDA**

The undersigned acknowledges the receipt of the following addenda:

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

**TIME OF COMPLETION**

The undersigned agrees to substantially complete the Project by August 15, 2007.

**WITHDRAWAL OF BIDS**

The undersigned agrees that his Bid shall not be withdrawn for a period of sixty (60) days after the date set for receipt of Bids.

**NON-COLLUSION**

The undersigned certifies that the bid has not been prepared in collusion with any other bidder and that the prices, discounts, terms and conditions thereof have not been directly or indirectly communicated by or on behalf of the Bidder to any such person other than the recipient of such bid, and will not be communicated to any such person prior to the official opening of said bid. The undersigned fully understands that no premiums, rebates, or gratuities are permitted with, prior to or after signing the Contract. This certification may be treated as if it were a sworn statement made under oath, and is made subject to the provisions of 18 U. S. C., 1001, relating to the making of false statements.

**SIGNATURE AND LEGAL STATUS OF BIDDER**

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
(Individual, Partnership, Corporation)

\_\_\_\_\_  
State of Incorporation

Affix Corporate Seal

By: \_\_\_\_\_  
(Authorized Signature of Bidder)

\_\_\_\_\_  
(Print or Type Name of Bidder)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Business Address

Instructions: Five (5) copies of this form are supplied for the use of Bidders. Submit four (4) copies to Owner and retain one (1) copy.

**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 owner(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 \_\_\_\_\_, 2005, by \_\_\_\_\_.

\_\_\_\_\_  
\_\_\_\_\_, Notary Public  
\_\_\_\_\_ County, Michigan

Troy School District  
School Technology Systems  
Voice Communications System  
TSD Bid No. 9377  
Troy, Michigan

IDS Project No.03234-1000 BP22  
W&H Project No. 06-TSD-VCS-01

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

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

**END OF BID FORM**

## **SECTION 16740 – VOICE COMMUNICATIONS SYSTEM**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this Section.

#### **1.2 SUMMARY**

- A. This Section includes voice communications system equipment, software and associated peripherals, installation, certification, training including, but not limited, to the following:
  - 1. Voice Communications System switches
  - 2. Gateways, Fiber Mux, ancillary equipment
  - 3. Software.
  - 4. Licensing.
  - 5. Removal of existing equipment.
  - 6. Installation of new equipment.
  - 7. Provide, install and punch down all required cables.
  - 8. Create database of equipment utilizing district supplied asset tags
  - 9. Apply asset tags to equipment
  - 10. Work with district personnel and configure new switches.
  - 11. Program, configure and test all equipment.
  - 12. Provide record drawings and documented configuration.
  - 13. Provide on-site project management, training, and support for equipment and software when ultimately installed in the Troy School District location.
  - 14. Support the migration of the existing voice communications system to the new voice communications system with no unscheduled interruptions.
  - 15. Support for the existing District wide dialing plan.
  - 16. Training of personnel on use of the system.
- B. The school district has an existing fiber optic WAN in operation. The existing telephone system is comprised of T-1 circuits that have a dedicated pair of fibers on the WAN and are collapsed back to the District head end (Service Center). The equipment under this contract shall be provided and configured with all hardware and software to permit seamless integration into the School District WAN with no additional cost to the owner. The configuration will support both the existing T-1 configuration over the fiber optic WAN, and IP trunking from each location over the existing Gigabit WAN connections.

#### **1.3 SYSTEM DESCRIPTION**

- A. This contract consists of providing the District with new Mitel IP enabled hardware and the latest releases of supporting software, at the New Baker Middle School. The new voice communications system will allow for both traditional (existing) T-1 connectivity between buildings utilizing fiber muxes, as well as providing for IP connectivity within and between all buildings via the Mitel 3300 series, ICP switches and the existing gigabit WAN connections. In addition, Unified Messaging capabilities to integrate with the District's Exchange / Outlook email system are to be added. This Unified Messaging system is to provide 1000 hours of storage, 28 voice mail ports and support 1600 users. Itemization of costs for the addition or reduction of

users beyond or below 1600 must be provided. All hardware, software, and associated licenses are to be included.

- B. All miscellaneous hardware and software required for a complete, professional installation shall be included in the base bid. No allowances for any additional equipment, software, hardware, cabling, or miscellaneous will be considered unless specifically excluded from the base bid.
- C. Time shall be allocated in the job for the purpose of training school personnel in the proper use and maintenance of the provided equipment.
- D. Install cable in a professional manner. No exposed cabling shall be permitted in the wiring of any functions of the provided system. All cables shall be routed through appropriate raceways suitable and designed for such purposes.
- E. All work materials shall be removed at the end of the workday and the work area left in the same condition as found.
- F. This contractor and his/her major equipment suppliers shall show satisfactory evidence, upon request, that they maintain a fully equipped service organization capable of furnishing adequate inspection and service to the system, including replacement parts. This contractor shall be prepared to offer a service contract for the maintenance of the system after the warranty period. The bidder shall produce evidence that they have a fully experienced and established service organization for at least five years and proven satisfactory installations during that time.

Adherence to a schedule of working hours which is agreeable with the Owner will be required.

- G. All work shall be in accordance with the true intent of these Specifications, and as required to leave the network equipment complete and in satisfactory operating condition, excluding those items listed under "Related Work Provided by Others."
  - 1. The Owner reserves the right to reject any or all alternate equipment bids and to select the bid that is considered to serve "THE BEST INTEREST OF THE OWNER."

#### **1.4 SUBMITTALS**

- A. Provide the following information with the Bid:
  - 1. A complete itemization of manufacturers' products and equipment with catalog cuts.
  - 2. Manufacturers' product specifications and installation instructions.
  - 3. A complete itemization of software products with catalog cuts
  - 4. Software product specifications and installation instructions.
  - 5. Provide recent customer references for similar work performed during the last twelve months and provide documentation on installation staff training and certification.
- B. Upon project close out provide hard and soft copy of the system configuration, users and maintenance manuals for all equipment.
- C. Provide record drawings and system configuration diagrams.

#### **1.5 QUALITY ASSURANCE**

- A. **Equipment Manufacturer Qualifications:** The network equipment shall be built and tested by a manufacturer who has regularly engaged in the production of network systems for a minimum of five years to assure one source of supply and responsibility.
- B. **Equipment Supplier Qualifications:** The supplier of the network equipment shall maintain permanent service facilities in the ultimate area of the installation (Troy School District). The facilities shall include a permanent source of factory-trained service technicians on 24-hour call experienced in servicing this type of equipment and shall provide warranty and routine maintenance service to afford the Owner maximum coverage. He shall also provide a central source of support to warranty immediate answers to Owner's problems resulting from misunderstanding of the operation of the equipment
- C. **Equipment Installer Qualifications:** The installation of the server shall be performed by fully qualified personnel, having had experience on the installation of this type and able to certify that they have had no less than five years of continuous experience in this area and have made installation similar to this and of this size or larger.
  - 1. Contractor (Vendor) shall be qualified and normally engaged in the business of providing and installing network equipment, local area networks and shall possess a thorough knowledge of and conformance with all applicable standards.
  - 2. Contractor (Vendor) shall provide a qualified project leader who is skilled in network systems programming and installation, certified for the specific manufacturer's equipment that is to be installed. The name and qualifications of the project leader shall be part of the bid documents. The Troy School District reserves the right to reject if experience or qualifications are not deemed sufficient.
  - 3. Contractor (Vendor) shall provide, with this bid response, a detailed list of other vendor projects and their size/scope scheduled for implementation during the same time periods as this project.
  - 4. Contractor (Vendor) shall provide, with this bid response, a company profile detailing the size of the company, installation and technical resources the vendor has on staff and the number of installers that will be assigned to this project.
  - 5. Contractor (Vendor) shall provide, with this bid response, the names of subcontractors for any portion of the work. Vendor must satisfy the district with the reliability and responsibility of proposed subcontractors to furnish and perform work. The final responsibility for the installation and performance rests with the vendor.

- D. Regulatory Requirements: The computer equipment shall be registered under the most current applicable rulings of the Federal Communications Commission (FCC). Provide the FCC registration number with the equipment submittal. All components and installations shall bear an Underwriters' Laboratories (UL) listing and shall conform with the latest edition or revision of the following codes and standards:
1. ANSI American National Standards Institute
  2. FCC Federal Communications Commission
  3. ISO International Organization for Standardization
  4. UL Underwriters Laboratories, Inc.
- E. The code or standard establishing the more stringent requirements shall be followed where areas of conflict occur between codes and standards or between codes and standards and Specifications.

**1.6 DELIVERY, STORAGE AND HANDLING**

- A. Store voice communications system equipment, at vendor's location, as recommended in manufacturer's written instructions and in manufacturer's protective packages until time of installation.
- B. Protect voice communications system equipment from damage and theft.

**1.7 PROJECT/SITE CONDITIONS**

- A. Verify conditions at the job site prior to installation at the Troy School District.

**1.8 WARRANTY**

- A. Warranty: All products shall be warranted to be free from defects in material and workmanship upon installation.
- B. Warranty period shall commence after all the systems have been placed in working operation and accepted by the Owner by formal written acceptance.
- C. All systems and components shall be warranted free of defects in materials and workmanship for a period of one (1) year or manufacturer warranty, which ever is longer, from the date of acceptance. Systems and components shall be repaired or replaced within twenty-four (24) hours following report of defects by the Owner. Service for the first year will be provided on-site at the Troy School District. The date of acceptance shall be defined as the date the Certificate of Substantial Completion is signed by the Architect/Engineer and the Owner.

**1.9 TRAINING/SUPPORT**

- A. The equipment Contractor (Vendor) shall have technical support personnel in the District following any and all cutovers to assure proper operation of the voice communications system systems.
- B. Training:

1. The voice communications system equipment supplier shall provide a minimum of sixteen (16) hours of instruction and training on the operation of the system and its maintenance to the Troy School District technical maintenance staff. The instruction shall be broken down in four (4) hour blocks of time.
2. All technical training will be coordinated with the Technology Director and training shall take place at the Troy School District's Services Building.
3. Provide end user training for Unified Messaging for up to 1600 users. Include two options in your pricing. One to provide training at each building site, and one to provide training at a central site in the District, in a large group instruction format. Include number of classes to be offered in each option. Include the cost of training at each site in your base bid.

**1.10 SERVICE**

- A. The voice communications system equipment Contractor (Vendor) shall be available and shall respond on-site within four (4) hours notice and without cost to the Owner during the first twelve (12) months of full-scale operation, following acceptance of the system. This service is to be provided 24 hours per day, 365 days per year. Remote maintenance and monitoring of all systems is to be included, 24 hours per day, 365 days per year for a thirty-six (36) month period.

**1.11 MAINTENANCE**

- A. The Vendor shall submit a maintenance and service contract with service rates covering all labor and materials necessary to repair damages to the systems after expiration of the warranty period. The contract shall include a differentiation between and definitions of "emergency" and "non-emergency" service with applicable rates for each.

**1.12 SPARE PARTS**

- A. Guarantee the availability of all spare parts and maintain locally an adequate complement of components that are applicable to the voice communications system equipment from date of acceptance through the year 2012.
- B. Provide two (2) sets of system hardware and software manuals.
- C. Provide in your base bid a complete list of manufacturer's recommended spare parts. These must be itemized and made available for purchase at quoted price at any time during the first twelve (12) month period.

## **PART 2 - PRODUCT**

### **2.1 VOICE COMMUNICATIONS SYSTEM**

- A. The voice communications system shall include providing a complete operational and tested system including the following principle features:
1. Switch / Call Processor
  2. Line/Trunk gateway
  3. IP trunking
  4. Voice Mail
  5. Unified Messaging
  6. Software
  7. Training

### **2.2 LABELING**

- A. The contractor shall install District supplied asset tags on all switches and equipment provided under this bid. The contractor shall populate a District supplied Microsoft Excel database with the following information, where applicable:
1. District asset tag number
  2. IP address
  3. MAC address
  4. Switch identification number
  5. Manufacturer serial number
  6. Install Date
- B. The contractor shall provide and apply the asset tag and voice communications system switch identification label. Contractor must follow the District's standard and obtain sign off from the District in regards to such.

### **2.3 APPROVED MANUFACTURERS**

- A. Subject to compliance with requirements, provide voice communications system equipment as manufactured by the following:
1. Mitel

**2.4 VOICE COMMUNICATIONS SYSTEM EQUIPMENT**

- A. General: The voice communications system equipment shall be new, of modern design, and the current standard production of the manufacturer.
- B. Voice communications system Equipment:
  - 1. The following sections specifically list the acceptable equipment types and items for this project.
  - 2. All miscellaneous equipment required for a complete, professional installation shall be included in the base bid. No allowances for any additional equipment, hardware, cabling, or miscellaneous will be considered unless specifically excluded from the base bid.
  - 3. All hardware and software shall have direct manufacturer support through the year 2012.
  - 4. Any item of equipment or material not specifically addressed in this document and required to provide a complete and functional voice communications system installation shall be provided in the highest level of quality consistent with other specified items.
- C. Upgrade existing Opsman (version 6.11.0.12) to Enterprise Manager. Existing server is a HP Proliant DL380, Intel Xeon 3.2 GHz, 2GB RAM, Windows Server 2003 svc pack 1, Raid 5 configuration.
- D. Provide District Wide E911Locator. Include all software and hardware requirements.
- E. Provide assistance to the Owner in modification of existing dial 9 access to new dial access code. To include researching options and programming.
- F. Contractor must attend regularly scheduled construction meetings during the implementation period
- G. New Baker Middle School Configuration:
  - 1. The MDF is located adjacent to the Media Center.

| <u>Qty</u> | <u>Part Number</u> | <u>Description</u>                  |
|------------|--------------------|-------------------------------------|
|            |                    | <b>IP Peripherals</b>               |
| 70         | 50002815           | 5201 IP Phone Dark Grey             |
| 13         | 50004890           | 5212 IP Phone Dual Mode Dark Grey   |
| 10         | 50004894           | 5224 IP Phone Dual Mode Dark Grey   |
|            |                    | <b>3300 ICP Hardware</b>            |
| 1          | <b>50005363</b>    | <b>3300 Mx 1400 User Controller</b> |
| 1          | 50005160           | T1/E1 Combo MMC II                  |
| 1          | 50002976           | Power Cord Pack (Qty 3)             |
|            |                    | <b>3300 ICP Software</b>            |
| 1          | 54002536           | 3300 Software package 4             |
| 93         | 52001151           | 3300 - IP Phone License             |
| 1          | 54000303           | 3300 - Network Link License         |
|            |                    | <b>Miscellaneous</b>                |

|   |                        |                                    |
|---|------------------------|------------------------------------|
| 1 | 48353-703              | Chatsworth Rack 19" x 7', Black    |
| 1 | 11202                  | DESI label creation CD             |
| 2 | 12546                  | 5201 IP Phone Labels (Gray) 50 ea  |
| 1 | 13130                  | 5212/5224 IP Phone Labels (qty 50) |
| 1 | 12816-703              | Power strip 19"                    |
| 1 | 501833-4               | Fibre Optic Cable (4m)             |
| 1 | AT1503EV-BU            | Blue - 3 Ft                        |
| 1 | FOM-<br>ET1/AC/SC/13L  | Fiber Mux                          |
| 1 | FOM-<br>E1/T1/R/SC/13L | Fiber Mux                          |

Include any component, if missing to the above itemization, required for a working system.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION-GENERAL**

- A. Unpack, assemble and program equipment.
- B. Remove all trash at the end of each workday. The District dumpsters may be used for trash removal.
- C. The contractor shall work with school district personnel to perform all installation work on a mutually agreeable schedule, within the timeframe outlined in this document.
- D. Install, configure, program and test the system. The contractor shall work with District personnel to configure the equipment.
- E. Support the final installation at the Troy School District location to insure defect free installation.

#### **3.2 INSTALLATION-TIMELINE**

- A. Installation of the voice communications system is to be complete no later than May 31, 2007. Telephone set placement and substantial completion will not occur until August 2007.

**END OF SECTION 16740**



STATE OF MICHIGAN

JENNIFER M. GRANHOLM  
GOVERNOR

DEPARTMENT OF LABOR & ECONOMIC GROWTH  
LANSING

ROBERT W. SWANSON  
DIRECTOR

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

The Michigan Department of Labor & Economic Growth determines prevailing rates pursuant to the Prevailing Wage Law, Act 166, P.A. of 1965. The purpose of establishing prevailing rates is to provide rates of pay for 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 attached 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. The prevailing rate may be satisfied by payment in cash or payment in cash and credit for fringe benefits paid in cash or on behalf of a worker or fringe benefits provided to a worker.

### 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, including rates for registered apprentices, 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 of wages and fringe benefits 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 wage and fringe benefit rates prescribed in a contract.
- Every contractor and subcontractor shall keep an accurate record showing the name and occupation of and the actual wages and benefits paid to each construction mechanic employed by him in connection with said contract. 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 and Hour Division. The department will investigate and attempt to resolve the complaint informally.

Executive Order Number 2003-001 requires that contractors doing business with the State of Michigan be in compliance with state and federal law. A violation of Act 166 of 1965, as amended, the Prevailing Wages on State Projects act or Act 390 of 1978, as amended, the Payment of Wages and Fringe Benefits Act, may result in the debarment of a contractor from being awarded a contract for the provision of goods and services to the State of Michigan for a period of up to eight (8) years.

WAGE & HOUR DIVISION

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

www.michigan.gov/wagehour • (517) 322-1825 • FAX (517) 322-6352

Revised 08/08/2006

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

**Wage and Hour Division**

7150 Harris Drive  
 PO Box 30476  
 Lansing, MI 48909-7976  
 Telephone: 517-322-1825  
 Fax: 517-322-6352  
 www.michigan.gov/wagehour

**Official Request** 1307  
**Requestor:** TROY SCHOOL DISTRICT

**Project Description:** PHONE INSTALLATION  
**Project Number:** NEW BAKER MIDDLE SCHOOL

**Oakland County**  
**Official 2006 Prevailing Wage Rates for State Funded Projects**

**Issue Date:** 12/8/2006

**Contract must be awarded by** 3/8/2007

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| <u>Classification</u>  |                |  |                 |                 |             |                    |
|--|----------------|--|-----------------|-----------------|-------------|--------------------|
| Name   | Description    |  | Straight Hourly | Time and a Half | Double Time | Overtime Provision |
| <b>Asbestos &amp; Lead Abatement Laborer</b>                     |                |  |                 |                 |             |                    |
| Asbestos & Lead Abatement Laborer                                | MLDC           |  | \$31.30         | \$41.83         | \$52.35     | H H H X X X X D Y  |
| <b>Asbestos &amp; Lead Abatement, Hazardous Material Handler</b> |                |  |                 |                 |             |                    |
| Asbestos and Lead Abatement, Hazardous Material Handler          | AS207          |  | \$30.00         | \$41.55         | \$53.10     | X X X X X X X D Y  |
| <b>Boilermaker</b>   |                |  |                 |                 |             |                    |
| Boilermaker  | BO169          |  | \$48.71         | \$68.13         | \$87.54     | H H D H D D D D Y  |
| <b>Apprentice Rates:</b>   |                |  |                 |                 |             |                    |
|  | 1st 6 months   |  | \$37.07         | \$50.67         | \$64.26     |                    |
|  | 2nd 6 months   |  | \$38.03         | \$52.10         | \$66.18     |                    |
|  | 3rd 6 months   |  | \$39.00         | \$53.56         | \$68.12     |                    |
|  | 4th 6 months   |  | \$39.97         | \$55.02         | \$70.06     |                    |
|  | 5th 6 months   |  | \$40.58         | \$56.11         | \$71.64     |                    |
|  | 6th 6 months   |  | \$42.88         | \$59.38         | \$75.88     |                    |
|  | 7th 6 months   |  | \$44.83         | \$62.31         | \$79.78     |                    |
|  | 8th 6 months   |  | \$46.77         | \$65.21         | \$83.66     |                    |
| <b>Bricklayer</b>  |                |  |                 |                 |             |                    |
| Bricklayer, stone mason, pointer, cleaner, caulker               | BR1            |  | \$46.06         | \$69.09         | \$92.12     | H H D H D D D D N  |
| <b>Apprentice Rates:</b>   |                |  |                 |                 |             |                    |
|  | First 6 months |  | \$29.18         | \$43.77         | \$58.36     |                    |
|  | 2nd 6 months   |  | \$31.01         | \$46.51         | \$62.02     |                    |
|  | 3rd 6 months   |  | \$32.82         | \$49.23         | \$65.64     |                    |
|  | 4th 6 months   |  | \$34.64         | \$51.96         | \$69.28     |                    |
|  | 5th 6 months   |  | \$36.47         | \$54.71         | \$72.94     |                    |
|  | 6th 6 months   |  | \$38.28         | \$57.43         | \$76.56     |                    |

Official Request #: 1307  
 Requestor: TROY SCHOOL DISTRICT  
 Project Description: PHONE INSTALLATION  
 Project Number: NEW BAKER MIDDLE SCHOOL  
 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 2006 Prevailing Wage Rates for State Funded Projects

Issue Date: 12/8/2006

Contract must be awarded by 3/8/2007

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| <u>Classification</u> | Name | Description | Straight<br>Hourly | Time and<br>a Half | Double<br>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 | \$40.22 | \$56.42 | \$72.61 | H H H H D D D D N |
|--|--------|---------|---------|---------|-------------------|

**Apprentice Rates:**

|              |         |         |         |
|--------------|---------|---------|---------|
| 1st 6 months | \$20.93 | \$25.25 | \$31.05 |
| 2nd 6 months | \$24.02 | \$31.26 | \$39.07 |
| 3rd 6 months | \$25.64 | \$33.59 | \$42.17 |
| 4th 6 months | \$27.26 | \$35.95 | \$45.33 |
| 5th 6 months | \$28.87 | \$38.28 | \$48.43 |
| 6th 6 months | \$30.50 | \$40.64 | \$51.57 |
| 7th 6 months | \$32.11 | \$42.96 | \$54.67 |
| 8th 6 months | \$33.73 | \$45.30 | \$57.79 |

|                       |         |         |         |         |                   |
|-----------------------|---------|---------|---------|---------|-------------------|
| Carpenter, piledriver | CA687Z1 | \$44.37 | \$62.97 | \$81.56 | H H D H D D D D Y |
|-----------------------|---------|---------|---------|---------|-------------------|

**Apprentice Rates:**

|              |         |         |         |
|--------------|---------|---------|---------|
| 1st Year     | \$27.63 | \$37.85 | \$48.08 |
| 3rd 6 months | \$29.49 | \$40.65 | \$51.80 |
| 4th 6 months | \$31.34 | \$43.42 | \$55.50 |
| 5th 6 months | \$33.21 | \$46.23 | \$59.24 |
| 6th 6 months | \$35.08 | \$49.03 | \$62.98 |
| 7th 6 months | \$36.92 | \$51.79 | \$66.66 |
| 8th 6 months | \$38.80 | \$54.61 | \$70.42 |

**Cement Mason**

|              |       |         |         |         |                   |
|--------------|-------|---------|---------|---------|-------------------|
| Cement Mason | CE514 | \$42.64 | \$58.58 | \$75.56 | H H D H H H H D N |
|--------------|-------|---------|---------|---------|-------------------|

**Apprentice Rates:**

|              |         |         |         |
|--------------|---------|---------|---------|
| 1st 6 months | \$24.81 | \$32.80 | \$41.30 |
| 2nd 6 months | \$26.56 | \$35.35 | \$44.70 |
| 3rd 6 months | \$30.06 | \$40.43 | \$51.48 |
| 4th 6 months | \$33.57 | \$45.55 | \$58.30 |
| 5th 6 months | \$35.27 | \$48.02 | \$61.60 |
| 6th 6 months | \$38.83 | \$53.20 | \$68.50 |

**Drywall**

|               |         |         |         |         |                   |
|---------------|---------|---------|---------|---------|-------------------|
| Drywall Taper | PT-22-D | \$38.45 | \$50.90 | \$63.35 | H H D H D D D D N |
|---------------|---------|---------|---------|---------|-------------------|

**Apprentice Rates:**

|                 |         |         |         |
|-----------------|---------|---------|---------|
| 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 |

Official Request #: 1307  
 Requestor: TROY SCHOOL DISTRICT  
 Project Description: PHONE INSTALLATION  
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 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 2006 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 12/8/2006

**Contract must be awarded by** 3/8/2007

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| Classification<br>Name Description                  |                     | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|---|---------------------|--------------------|--------------------|----------------|--------------------|
| <b>Electrician, Inside wireman</b>                  |                     |                    |                    |                |                    |
| Electrician, Inside Wireman                         | EC-58-IW            | \$46.88            | \$64.00            | \$81.13        | H H H H H H H D N  |
| <b>Apprentice Rates:</b>                            |                     |                    |                    |                |                    |
|   | 0-1000 hours        | \$26.33            | \$33.18            | \$40.03        |                    |
|   | 1000-2000 hours     | \$28.04            | \$35.75            | \$43.45        |                    |
|   | 2000-3500 hours     | \$29.75            | \$38.31            | \$46.87        |                    |
|   | 3500-5000 hours     | \$31.47            | \$40.90            | \$50.31        |                    |
|   | 5000-6500 hours     | \$34.89            | \$46.03            | \$57.15        |                    |
|   | 6500-8000 hours     | \$38.32            | \$51.17            | \$64.01        |                    |
| <b>Elevator Constructor</b>                         |                     |                    |                    |                |                    |
| Elevator Constructor                                | EL 36               | \$47.71            |                    | \$81.45        | D D D D D D D D Y  |
| Elevator Constructor                                |                     |                    |                    |                |                    |
| <b>Apprentice Rates:</b>                            |                     |                    |                    |                |                    |
|   | 1st Year Apprentice | \$31.14            |                    | \$49.70        |                    |
|   | 2nd Year Apprentice | \$34.82            |                    | \$56.75        |                    |
|   | 3rd Year Apprentice | \$36.66            |                    | \$60.28        |                    |
|   | 4th Year Apprentice | \$40.34            |                    | \$67.33        |                    |
| <b>Glazier</b>                                      |                     |                    |                    |                |                    |
| Glazier   | GL-357              | \$41.56            | \$55.41            |                | H H H H H H H H Y  |
| <b>Apprentice Rates:</b>                            |                     |                    |                    |                |                    |
|   | 1st 6 months        | \$28.36            | \$35.29            |                |                    |
|   | 2nd 6 months        | \$29.82            | \$37.44            |                |                    |
|   | 3rd 6 months        | \$32.72            | \$41.72            |                |                    |
|   | 4th 6 months        | \$34.18            | \$43.87            |                |                    |
|   | 5th 6 months        | \$35.64            | \$46.03            |                |                    |
|   | 6th 6 months        | \$37.09            | \$48.17            |                |                    |
|   | 7th 6 months        | \$38.54            | \$50.31            |                |                    |
|   | 8th 6 months        | \$41.46            | \$54.62            |                |                    |
| <b>Heat and Frost Insulator and Asbestos Worker</b> |                     |                    |                    |                |                    |
| Heat and Frost Insulators and Asbestos Workers      | AS25                | \$42.80            | \$56.56            | \$70.32        | H H H H H H H D Y  |
| <b>Apprentice Rates:</b>                            |                     |                    |                    |                |                    |
|   | 1st Year            | \$25.05            | \$32.62            | \$40.19        |                    |
|   | 2nd Year            | \$32.83            | \$41.78            | \$50.72        |                    |
|   | 3rd Year            | \$34.54            | \$44.17            | \$53.80        |                    |
|   | 4th Year            | \$37.30            | \$48.31            | \$59.32        |                    |
| <b>Industrial Door</b>                              |                     |                    |                    |                |                    |
| Industrial Door erection & construction             | IR-25-STR-D         | \$33.32            | \$44.57            | \$55.82        | H H D H H H D D Y  |

Official Request #: 1307  
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**Issue Date:** 12/8/2006

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| <u>Classification</u>   |                | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|---|----------------|--------------------|--------------------|----------------|--------------------|
| Name  | Description    |                    |                    |                |                    |
| <b>Ironworker</b>   |                |                    |                    |                |                    |
| Fence Erecting  | IR-25-F        | \$38.28            | \$57.26            | \$76.23        | H H D H H H D D Y  |
| Glazing   | IR-25-GZ1      | \$46.57            | \$69.69            | \$92.81        | H H D H H H D D Y  |
| Mesh Iron Work  | IR-25-MR       | \$41.22            | \$59.07            | \$76.92        | H H D H D D D D N  |
| Pre-engineered Metal Work   | IR-25-PE-Z1&Z2 | \$39.23            | \$49.73            | \$60.23        | H H H X X X X D Y  |
| <b>Apprentice Rates:</b>  |                |                    |                    |                |                    |
|   | 1st Level      | \$24.11            | \$30.04            | \$35.98        |                    |
|   | 2nd Level      | \$26.00            | \$32.79            | \$39.59        |                    |
|   | 3rd Level      | \$27.87            | \$35.51            | \$43.15        |                    |
|   | 4th Level      | \$29.74            | \$38.23            | \$46.71        |                    |
|   | 5th Level      | \$31.59            | \$40.92            | \$50.24        |                    |
|   | 6th Level      | \$33.48            | \$43.66            | \$53.84        |                    |
| Reinforced Iron Work  | IR-25-RF       | \$46.45            | \$66.75            | \$87.05        | H H D H D D D D N  |
| Rigging Work  | IR-25-RIG      | \$50.42            | \$75.53            | \$100.64       | H H H H H H H D N  |
| Siding & Decking  | IR-25-SD       | \$43.31            | \$64.80            | \$86.29        | H H D H H H D D Y  |
| Structural, ornamental, conveyor, welder and pre-cast   | IR-25-STR      | \$50.55            | \$75.66            | \$100.77       | H H D H H H D D Y  |
| Apprentice rates apply to structural, conveyer, fence, glazing, reinforced, rigging, & siding decking |                |                    |                    |                |                    |
| <b>Apprentice Rates:</b>  |                |                    |                    |                |                    |
|   | Level 1        | \$25.45            | \$38.01            | \$50.57        |                    |
|   | Level 2        | \$27.96            | \$41.78            | \$55.59        |                    |
|   | Level 3        | \$30.47            | \$45.55            | \$60.61        |                    |
|   | Level 4        | \$32.98            | \$49.31            | \$65.63        |                    |
|   | Level 5        | \$35.49            | \$53.07            | \$70.65        |                    |
|   | Level 6        | \$38.01            | \$56.85            | \$75.69        |                    |
|   | Level 7        | \$40.50            | \$60.59            | \$80.67        |                    |
|   | Level 8        | \$43.02            | \$64.37            | \$85.71        |                    |

Official Request #: 1307  
 Requestor: TROY SCHOOL DISTRICT  
 Project Description: PHONE INSTALLATION  
 Project Number: NEW BAKER MIDDLE SCHOOL  
 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 2006 Prevailing Wage Rates for State Funded Projects

Issue Date: 12/8/2006

Contract must be awarded by 3/8/2007

Page 5 of 20

| Classification  |                        | Straight | Time and | Double  | Overtime Provision |  |
|---|------------------------|----------|----------|---------|--------------------|--|
| Name  | Description            | Hourly   | a Half   | Time    |                    |  |
| <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              | \$36.48  | \$51.89  | \$67.29 | H H D H D D D D Y  |  |
| <b>Apprentice Rates:</b>  |                        |          |          |         |                    |  |
|   | 0-1,000 work hours     | \$30.91  | \$43.53  | \$56.15 |                    |  |
|   | 1,001-2,000 work hours | \$32.02  | \$45.20  | \$58.37 |                    |  |
|   | 2,001-3,000 work hours | \$33.14  | \$46.88  | \$60.61 |                    |  |
|   | 3,001-4,000 work hours | \$35.37  | \$50.23  | \$65.07 |                    |  |
| 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              | \$36.74  | \$52.28  | \$67.81 | H H D H D D D D Y  |  |
| Lansing Burner, Blaster & Powder Man  | L1076-A-C              | \$37.23  | \$53.01  | \$68.79 | H H D H D D D D Y  |  |
| Furnace battery heater tender, burning bar & oxy-acetylene gun, expediter man, top man and/or bottom man (blast furnace work)   | L1076-A-D              | \$36.98  | \$52.64  | \$68.29 | H H D H D D D D Y  |  |
| Cleaner/ sweeper laborer, furniture laborer   | L1076-A-E              | \$31.03  | \$43.71  | \$56.39 | H H D H D D D D Y  |  |
| Plasterer Tender, Plastering Machine Operator   | LPT-1                  | \$37.86  | \$53.96  | \$70.05 | H H D H D D D D N  |  |
| <b>Apprentice Rates:</b>  |                        |          |          |         |                    |  |
|   | 0 - 1,000 hours        | \$30.91  | \$43.53  | \$56.15 |                    |  |
|   | 1,001 - 2,000 hours    | \$32.02  | \$45.20  | \$58.37 |                    |  |
|   | 2,001 - 3,000 hours    | \$33.14  | \$46.88  | \$60.61 |                    |  |
|   | 3,001 - 4,000 hours    | \$35.37  | \$50.23  | \$65.07 |                    |  |
| <b>Laborer - Hazardous</b>  |                        |          |          |         |                    |  |
| 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              | \$35.36  | \$50.45  | \$65.53 | H H H H H H H D Y  |  |
| <b>Apprentice Rates:</b>  |                        |          |          |         |                    |  |
|   | 0-1,000 work hours     | \$29.86  | \$42.20  | \$54.53 |                    |  |
|   | 1,001-2,000 work hours | \$30.96  | \$43.85  | \$56.73 |                    |  |
|   | 2,001-3,000 work hours | \$32.06  | \$45.50  | \$58.93 |                    |  |
|   | 3,001-4,000 work hours | \$34.26  | \$48.80  | \$63.33 |                    |  |

Official Request #: 1307  
 Requestor: TROY SCHOOL DISTRICT  
 Project Description: PHONE INSTALLATION  
 Project Number: NEW BAKER MIDDLE SCHOOL  
 County: Oakland

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# Official 2006 Prevailing Wage Rates for State Funded Projects

Issue Date: 12/8/2006

Contract must be awarded by 3/8/2007

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| Classification   |                        |  |                    |                    |                |                    |
|--|------------------------|--|--------------------|--------------------|----------------|--------------------|
| Name   | Description            |  | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
| =====  |                        |  |                    |                    |                |                    |
| 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              |  | \$36.36            | \$51.95            | \$67.53        | H H H H H H D Y    |
| <b>Apprentice Rates:</b>   |                        |  |                    |                    |                |                    |
|  | 0-1,000 work hours     |  | \$30.60            | \$43.31            | \$56.01        |                    |
|  | 1,001-2,000 work hours |  | \$31.76            | \$45.05            | \$58.33        |                    |
|  | 2,001-3,000 work hours |  | \$32.91            | \$46.78            | \$60.63        |                    |
|  | 3,001-4,000 work hours |  | \$35.21            | \$50.22            | \$65.23        |                    |
| <br>   |                        |  |                    |                    |                |                    |
| <b>Laborer Underground - Tunnel, Shaft &amp; Caisson</b>   |                        |  |                    |                    |                |                    |
| Class I - Tunnel, shaft and caisson laborer, dump man, shanty man, hog house tender, testing man (on gas), and watchman.   | LAUCT-Z1-1             |  | \$32.54            | \$43.21            | \$53.88        | H H H H H H D Y    |
| <b>Apprentice Rates:</b>   |                        |  |                    |                    |                |                    |
|  | 0-1,000 work hours     |  | \$27.70            | \$35.95            | \$44.20        |                    |
|  | 1,001-2,000 work hours |  | \$28.67            | \$37.40            | \$46.14        |                    |
|  | 2,001-3,000 work hours |  | \$29.64            | \$38.86            | \$48.08        |                    |
|  | 3,001-4,000 work hours |  | \$31.57            | \$41.76            | \$51.94        |                    |
| <br>   |                        |  |                    |                    |                |                    |
| Class II - Manhole, headwall, catch basin builder, bricklayer tender, mortar man, material mixer, fence erector, and guard rail builder.   | LAUCT-Z1-2             |  | \$32.65            | \$43.38            | \$54.10        | H H H H H H D Y    |
| <b>Apprentice Rates:</b>   |                        |  |                    |                    |                |                    |
|  | 0-1,000 work hours     |  | \$27.79            | \$36.08            | \$44.38        |                    |
|  | 1,001-2,000 work hours |  | \$28.76            | \$37.54            | \$46.32        |                    |
|  | 2,001-3,000 work hours |  | \$29.73            | \$39.00            | \$48.26        |                    |
|  | 3,001-4,000 work hours |  | \$31.68            | \$41.92            | \$52.16        |                    |
| <br>   |                        |  |                    |                    |                |                    |
| 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 h.p.). | LAUCT-Z1-3             |  | \$32.71            | \$43.47            | \$54.22        | H H H H H H D Y    |
| <b>Apprentice Rates:</b>   |                        |  |                    |                    |                |                    |
|  | 0-1,000 work hours     |  | \$27.83            | \$36.14            | \$44.46        |                    |
|  | 1,001-2,000 work hours |  | \$28.81            | \$37.62            | \$46.42        |                    |
|  | 2,001-3,000 work hours |  | \$29.78            | \$39.07            | \$48.36        |                    |
|  | 3,001-4,000 work hours |  | \$31.73            | \$42.00            | \$52.26        |                    |

Official Request #: 1307  
 Requestor: TROY SCHOOL DISTRICT  
 Project Description: PHONE INSTALLATION  
  
 Project Number: NEW BAKER MIDDLE SCHOOL  
 County: Oakland

## Official Rate Schedule

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# Official 2006 Prevailing Wage Rates for State Funded Projects

Issue Date: 12/8/2006

Contract must be awarded by 3/8/2007

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| Classification<br>Name Description   |                        | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|--|------------------------|--------------------|--------------------|----------------|--------------------|
| Class IV - Tunnel, shaft and caisson mucker, bracer man, liner plate man, long haul dinky driver and well point man.   | LAUCT-Z1-4             | \$32.89            | \$43.74            | \$54.58        | H H H H H H H D Y  |
| <b>Apprentice Rates:</b>   |                        |                    |                    |                |                    |
|  | 0-1,000 work hours     | \$27.97            | \$36.36            | \$44.74        |                    |
|  | 1,001-2,000 work hours | \$28.95            | \$37.82            | \$46.70        |                    |
|  | 2,001-3,000 work hours | \$29.94            | \$39.31            | \$48.68        |                    |
|  | 3,001-4,000 work hours | \$31.91            | \$42.26            | \$52.62        |                    |
| 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             | \$33.14            | \$44.11            | \$55.08        | H H H H H H H D Y  |
| <b>Apprentice Rates:</b>   |                        |                    |                    |                |                    |
|  | 0-1,000 work hours     | \$28.16            | \$36.64            | \$45.12        |                    |
|  | 1,001-2,000 work hours | \$29.15            | \$38.12            | \$47.10        |                    |
|  | 2,001-3,000 work hours | \$30.15            | \$39.62            | \$49.10        |                    |
|  | 3,001-4,000 work hours | \$32.14            | \$42.61            | \$53.08        |                    |
| Class VI - Dynamite man and powder man.  | LAUCT-Z1-6             | \$33.47            | \$44.61            | \$55.74        | H H H H H H H D Y  |
| <b>Apprentice Rates:</b>   |                        |                    |                    |                |                    |
|  | 0-1,000 work hours     | \$28.40            | \$37.00            | \$45.60        |                    |
|  | 1,001-2,000 work hours | \$29.42            | \$38.53            | \$47.64        |                    |
|  | 2,001-3,000 work hours | \$30.43            | \$40.04            | \$49.66        |                    |
|  | 3,001-4,000 work hours | \$32.46            | \$43.09            | \$53.72        |                    |
| 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             | \$26.75            | \$34.53            | \$42.30        | H H H H H H H D Y  |
| <b>Apprentice Rates:</b>   |                        |                    |                    |                |                    |
|  | 0-1,000 work hours     | \$23.36            | \$29.44            | \$35.52        |                    |
|  | 1,001-2,000 work hours | \$24.04            | \$30.46            | \$36.88        |                    |
|  | 2,001-3,000 work hours | \$24.72            | \$31.48            | \$38.24        |                    |
|  | 3,001-4,000 work hours | \$26.07            | \$33.50            | \$40.94        |                    |
| <b>Landscape Laborer</b>   |                        |                    |                    |                |                    |
| Landscape specialist includes; air, gas, and diesel equipment operator, lawn sprinkler installer.  | LLAN-Z1-A              | \$23.38            | \$32.46            | \$41.54        | X X H X X X H D Y  |
| Landscape laborer; small power tool operator, lawn sprinkler installer helper, material mover, truck driver.   | LLAN-Z1-B              | \$19.16            | \$26.13            | \$33.10        | X X H X X X H D Y  |

Official Request #: 1307  
 Requestor: TROY SCHOOL DISTRICT  
 Project Description: PHONE INSTALLATION  
 Project Number: NEW BAKER MIDDLE SCHOOL  
 County: Oakland

## Official Rate Schedule

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# Official 2006 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 12/8/2006

**Contract must be awarded by** 3/8/2007

**Page 8 of 20**

| <u>Classification</u> | Name | Description | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|-----------------------|------|-------------|--------------------|--------------------|----------------|--------------------|
|-----------------------|------|-------------|--------------------|--------------------|----------------|--------------------|

**Marble Finisher**

|                 |                          |         |         |         |         |                   |
|-----------------|--------------------------|---------|---------|---------|---------|-------------------|
| Marble Finisher |                          | TT32-MF | \$37.17 | \$46.87 | \$56.57 | H H D H D D D D N |
|                 | <b>Apprentice Rates:</b> |         |         |         |         |                   |
|                 |                          | Level 1 | \$18.16 | \$23.25 | \$28.35 |                   |
|                 |                          | Level 2 | \$19.18 | \$24.79 | \$30.39 |                   |
|                 |                          | Level 3 | \$23.19 | \$29.47 | \$35.75 |                   |
|                 |                          | Level 4 | \$24.45 | \$31.36 | \$38.27 |                   |
|                 |                          | Level 5 | \$25.74 | \$32.85 | \$39.97 |                   |
|                 |                          | Level 6 | \$27.13 | \$34.62 | \$42.10 |                   |
|                 |                          | Level 7 | \$28.57 | \$36.10 | \$43.63 |                   |
|                 |                          | Level 8 | \$29.85 | \$37.62 | \$45.40 |                   |

**Marble Mason**

|              |                          |         |         |         |         |                   |
|--------------|--------------------------|---------|---------|---------|---------|-------------------|
| Marble Mason |                          | TT32-MM | \$42.76 | \$55.51 | \$68.25 | H H D H D D D D N |
|              | <b>Apprentice Rates:</b> |         |         |         |         |                   |
|              |                          | Level 1 | \$23.56 | \$30.36 | \$37.16 |                   |
|              |                          | Level 2 | \$26.21 | \$33.74 | \$41.28 |                   |
|              |                          | Level 3 | \$28.90 | \$36.71 | \$44.51 |                   |
|              |                          | Level 4 | \$31.20 | \$39.83 | \$48.46 |                   |
|              |                          | Level 5 | \$33.26 | \$42.19 | \$51.12 |                   |
|              |                          | Level 6 | \$36.52 | \$47.03 | \$57.53 |                   |
|              |                          | Level 7 | \$37.33 | \$48.11 | \$58.89 |                   |
|              |                          | Level 8 | \$38.14 | \$49.33 | \$60.51 |                   |

**Operating Engineer**

|   |  |             |         |         |         |                   |
|---|--|-------------|---------|---------|---------|-------------------|
| Crane with boom & jib or leads 120' or longer |  | EN-324-A120 | \$47.81 | \$64.26 | \$80.70 | H H D H D D D D Y |
| Crane with boom & jib or leads 140' or longer |  | EN-324-A140 | \$48.63 | \$65.49 | \$82.34 | H H D H D D D D Y |
| Crane with boom & jib or leads 220' or longer |  | EN-324-A220 | \$48.93 | \$65.94 | \$82.94 | H H D H D D D D Y |
| Crane with boom & jib or leads 300' or longer |  | EN-324-A300 | \$50.43 | \$68.19 | \$85.94 | H H D H D D D D Y |
| Crane with boom & jib or leads 400' or longer |  | EN-324-A400 | \$51.93 | \$70.44 | \$88.94 | H H D H D D D D Y |
| Compressor or welding machine                 |  | EN-324-CW   | \$36.96 | \$47.98 | \$59.00 | H H D H D D D D Y |
| Forklift, lull, extend-a-boom forklift        |  | EN-324-FL   | \$44.27 | \$58.95 | \$73.62 | H H D H D D D D Y |
| Fireman or oiler                              |  | EN-324-FO   | \$35.93 | \$46.44 | \$56.94 | H H D H D D D D Y |
| Regular crane, job mechanic, concrete pump    |  | EN-324-RC   | \$46.95 | \$62.97 | \$78.98 | H H D H D D D D Y |

Official Request #: 1307  
 Requestor: TROY SCHOOL DISTRICT  
 Project Description: PHONE INSTALLATION  
 Project Number: NEW BAKER MIDDLE SCHOOL  
 County: Oakland

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# Official 2006 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 12/8/2006

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**Page 9 of 20**

| <u>Classification</u> | Name | Description | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|-----------------------|------|-------------|--------------------|--------------------|----------------|--------------------|
|-----------------------|------|-------------|--------------------|--------------------|----------------|--------------------|

|  |   |           |         |         |         |                   |
|--|---|-----------|---------|---------|---------|-------------------|
|  | Regular engineer, hydro-excavator, remote controlled concrete breaker | EN-324-RE | \$45.98 | \$61.51 | \$77.04 | H H D H D D D D Y |
|--|---|-----------|---------|---------|---------|-------------------|

**Apprentice Rates:**

|          |         |         |         |
|----------|---------|---------|---------|
| Period 1 | \$36.47 | \$47.34 | \$58.22 |
| Period 2 | \$38.02 | \$49.67 | \$61.32 |
| Period 3 | \$39.57 | \$52.00 | \$64.42 |
| Period 4 | \$41.12 | \$54.32 | \$67.52 |
| Period 5 | \$42.68 | \$56.66 | \$70.64 |
| Period 6 | \$44.23 | \$58.99 | \$73.74 |

**Operating Engineer - Marine Construction**

|   |       |         |         |         |                   |
|---|-------|---------|---------|---------|-------------------|
| Diver/Wet Tender, Engineer (hydraulic dredge) | GLF-1 | \$47.11 | \$61.89 | \$76.66 | X X H H H H H D Y |
|---|-------|---------|---------|---------|-------------------|

Holidays paid at \$91.44 per hour

Subdivision of county all Great Lakes, islands therein, & connecting & tributary waters

|   |       |         |         |         |                   |
|---|-------|---------|---------|---------|-------------------|
| Crane/Backhoe Operator, Mechanic/Welder, Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender | GLF-2 | \$45.61 | \$59.64 | \$73.66 | X X H H H H H D Y |
|---|-------|---------|---------|---------|-------------------|

Holidays paid \$87.69 per hour

Subdivision of county 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 | \$42.56 | \$55.06 | \$67.56 | X X H H H H H D Y |
|---|-------|---------|---------|---------|-------------------|

Holidays paid at \$80.06 per hour

Subdivision of county 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 | \$38.36 | \$48.76 | \$59.16 | X X H H H H H D Y |
|---|-------|---------|---------|---------|-------------------|

Holidays paid at \$69.56 per hour

Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters

Official Request #: 1307

Requestor: TROY SCHOOL DISTRICT  
Project Description: PHONE INSTALLATION

Project Number: NEW BAKER MIDDLE SCHOOL  
County: Statewide

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# Official 2006 Prevailing Wage Rates for State Funded Projects

Issue Date: 12/8/2006

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| Classification                                    | Name  | Description       | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|---|---|-------------------|--------------------|--------------------|----------------|--------------------|
| <b>Operating Engineer Hazardous Waste Class I</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 protection.                      | EN-324-HWCI-Z1A   | \$44.87            | \$60.16            | \$75.50        | H H H H H H H D Y  |
| <b>Apprentice Rates:</b>                          |   |                   |                    |                    |                |                    |
|   | 1st 6 months  |                   | \$35.20            | \$45.96            | \$56.71        |                    |
|   | 2nd 6 months  |                   | \$36.74            | \$48.27            | \$59.79        |                    |
|   | 3rd 6 months  |                   | \$38.28            | \$50.58            | \$62.87        |                    |
|   | 4th 6 months  |                   | \$39.81            | \$52.87            | \$65.93        |                    |
|   | 5th 6 months  |                   | \$41.35            | \$55.19            | \$69.01        |                    |
|   | 6th 6 months  |                   | \$42.88            | \$57.48            | \$72.07        |                    |
|   | 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   | \$43.91            | \$58.80            | \$73.69        | H H H H H H H D Y  |
| <b>Apprentice Rates:</b>                          |   |                   |                    |                    |                |                    |
|   | 1st 6 months  |                   | \$34.53            | \$44.95            | \$55.37        |                    |
|   | 2nd 6 months  |                   | \$36.02            | \$47.19            | \$58.35        |                    |
|   | 3rd 6 months  |                   | \$37.51            | \$49.42            | \$61.33        |                    |
|   | 4th 6 months  |                   | \$39.00            | \$51.66            | \$64.31        |                    |
|   | 5th 6 months  |                   | \$40.49            | \$53.89            | \$67.29        |                    |
|   | 6th 6 months  |                   | \$41.98            | \$56.13            | \$70.27        |                    |
|   | Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats.  | EN-324-HWCI-Z1D   | \$42.61            | \$56.85            | \$71.09        | H H H H H H H D Y  |
| <b>Apprentice Rates:</b>                          |   |                   |                    |                    |                |                    |
|   | 1st 6 months  |                   | \$33.62            | \$43.59            | \$53.55        |                    |
|   | 2nd 6 months  |                   | \$35.05            | \$45.74            | \$56.41        |                    |
|   | 3rd 6 months  |                   | \$36.47            | \$47.87            | \$59.25        |                    |
|   | 4th 6 months  |                   | \$37.90            | \$50.01            | \$62.11        |                    |
|   | 5th 6 months  |                   | \$39.31            | \$52.12            | \$64.93        |                    |
|   | 6th 6 months  |                   | \$40.74            | \$54.27            | \$67.79        |                    |
|   | Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.  | EN-324-HWCI-Z1DCL | \$42.36            | \$56.47            | \$70.58        | H H H H H H H D Y  |
| <b>Apprentice Rates:</b>                          |   |                   |                    |                    |                |                    |
|   | 1st 6 months  |                   | \$33.45            | \$43.33            | \$53.21        |                    |
|   | 2nd 6 months  |                   | \$34.85            | \$45.43            | \$56.01        |                    |
|   | 3rd 6 months  |                   | \$36.26            | \$47.54            | \$58.83        |                    |
|   | 4th 6 months  |                   | \$37.68            | \$49.68            | \$61.67        |                    |
|   | 5th 6 months  |                   | \$39.09            | \$51.80            | \$64.49        |                    |
|   | 6th 6 months  |                   | \$40.50            | \$53.90            | \$67.31        |                    |

Official Request #: 1307  
 Requestor: TROY SCHOOL DISTRICT  
 Project Description: PHONE INSTALLATION  
 Project Number: NEW BAKER MIDDLE SCHOOL  
 County: Oakland

## Official Rate Schedule

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# Official 2006 Prevailing Wage Rates for State Funded Projects

Issue Date: 12/8/2006

Contract must be awarded by 3/8/2007

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| Classification  |                    |  |                    |                    |                |                    |   |   |   |   |   |   |   |   |
|---|--------------------|--|--------------------|--------------------|----------------|--------------------|---|---|---|---|---|---|---|---|
| Name  | Description        |  | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |   |   |   |   |   |   |   |   |
| <b>Operating Engineer Hazardous Waste Class II</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 protection.                      | EN-324-HWCII-Z1A   |  | \$40.64            | \$53.88            | \$67.13        | 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-HWCII-Z1B   |  | \$39.68            | \$52.45            | \$65.22        | H                  | H | H | H | H | H | H | D | Y |
| Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats.  | EN-324-HWCII-Z1D   |  | \$38.38            | \$50.50            | \$62.62        | 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-HWCII-Z1DCL |  | \$38.14            | \$50.13            | \$62.12        | H                  | H | H | H | H | H | H | D | Y |
| <b>Operating Engineer Hazardous Waste Crane w/ Boom &amp; Jib leads 140' 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 protection.                      | EN-324-HW140-Z1A   |  | \$47.51            | \$64.14            | \$80.80        | 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-HW140-Z1B   |  | \$46.57            | \$62.79            | \$79.00        | H                  | H | H | H | H | H | H | D | Y |
| Level D Coveralls, safety boots, glasses or chemical splash goggles and hard hats.  | EN-324-HW140-Z1D   |  | \$45.27            | \$60.84            | \$76.40        | 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-HW140-Z1DCL |  | \$45.02            | \$59.71            | \$75.15        | 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 protection.                      | EN-324-HW220-Z1A   |  | \$47.81            | \$64.65            | \$81.48        | 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   |  | \$46.87            | \$63.23            | \$79.60        | H                  | H | H | H | H | H | H | D | Y |

Official Request #: 1307  
 Requestor: TROY SCHOOL DISTRICT  
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# Official 2006 Prevailing Wage Rates for State Funded Projects

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| Classification<br>Name Description  |  | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|---|--|--------------------|--------------------|----------------|--------------------|
| Level D Coveralls, safety boots, glasses or chemical splash goggles and hard hats. EN-324-HW220-Z1D   |  | \$45.57            | \$61.28            | \$77.00        | 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   |  | \$45.32            | \$60.90            | \$76.49        | H H H H H H H D Y  |
| <b>Operating Engineer Hazardous Waste Regular Crane, Job Mechanic, Dragline Operator, Boom Truck 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  |  | \$43.58            | \$58.30            | \$73.02        | 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  |  | \$42.72            | \$57.01            | \$71.30        | 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 |  | \$44.88            | \$60.25            | \$75.62        | 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 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 protection. EN-324-HWRC-Z1A                      |  | \$45.83            | \$61.68            | \$77.53        | H H H H H H H D Y  |
| <b>Operating Engineer Steel Work</b>  |  |                    |                    |                |                    |
| Crane w/ 120' boom or longer EN-324-SW120   |  | \$51.51            | \$69.80            | \$88.08        | H H D H H H D D Y  |
| Crane w/ 120' boom or longer w/ Oiler EN-324-SW120-O  |  | \$52.51            | \$71.30            | \$90.08        | H H D H H H D D Y  |
| Crane w/ 140' boom or longer EN-324-SW140   |  | \$52.69            | \$71.57            | \$90.44        | H H D H H H D D Y  |
| Crane w/ 140' boom or longer W/ Oiler EN-324-SW140-O  |  | \$53.69            | \$73.07            | \$92.44        | H H D H H H D D Y  |
| Boom & Jib 220' or longer EN-324-SW220  |  | \$52.96            | \$71.97            | \$90.98        | H H D H H H D D Y  |
| Crane w/ 220' boom or longer w/ Oiler EN-324-SW220-O  |  | \$53.96            | \$73.47            | \$92.98        | H H D H H H D D Y  |

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# Official 2006 Prevailing Wage Rates for State Funded Projects

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| Classification<br>Name Description   |                          | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|--|--------------------------|--------------------|--------------------|----------------|--------------------|
| Boom & Jib 300' or longer  | EN-324-SW300             | \$54.46            | \$74.22            | \$93.98        | H H D H H H D D Y  |
| Crane w/ 300' boom or longer w/ Oiler  | EN-324-SW300-O           | \$55.46            | \$75.72            | \$95.98        | H H D H H H D D Y  |
| Boom & Jib 400' or longer  | EN-324-SW400             | \$55.96            | \$76.47            | \$96.98        | H H D H H H D D Y  |
| Crane w/ 400' boom or longer w/ Oiler  | EN-324-SW400-O           | \$56.96            | \$77.97            | \$98.98        | H H D H H H D D Y  |
| Crane Operator & Job Mechanic  | EN-324-SWCO              | \$51.15            | \$69.26            | \$87.36        | H H D H H H D D Y  |
|  | <b>Apprentice Rates:</b> |                    |                    |                |                    |
|  | 0-999 hours              | \$40.04            | \$52.72            | \$65.39        |                    |
|  | 1,000-1,999 hours        | \$41.85            | \$55.43            | \$69.01        |                    |
|  | 2,000-2,999 hours        | \$43.66            | \$58.14            | \$72.63        |                    |
|  | 3,000-3,999 hours        | \$45.48            | \$60.88            | \$76.27        |                    |
|  | 4,000-4,999 hours        | \$47.28            | \$63.58            | \$79.87        |                    |
|  | 5,000 hours              | \$49.10            | \$66.31            | \$83.51        |                    |
| Crane w/ Oiler   | EN-324-SWCO-O            | \$52.15            | \$70.76            | \$89.36        | H H D H H H D D Y  |
| Compressor or Welder Operator  | EN-324-SWCW              | \$43.70            | \$58.08            | \$72.46        | H H D H H H D D Y  |
| Hoisting Operator  | EN-324-SWHO              | \$50.51            | \$68.30            | \$86.08        | H H D H H H D D Y  |
| Oiler  | EN-324-SWO               | \$42.29            | \$55.97            | \$69.64        | H H D H H H D D Y  |
| Tower Crane & Derrick where work is 50' or more above first level                              | EN-324-SWTD50            | \$52.24            | \$70.89            | \$89.54        | H H D H H H D D Y  |
| Tower Crane & Derrick 50' or more w/ Oiler where work station is 50' or more above first level | EN-324-SWTD50-O          | \$53.24            | \$72.39            | \$91.54        | H H D H H H D D Y  |
| <b>Operating Engineer Underground</b>  |                          |                    |                    |                |                    |
| Class I Equipment  | EN-324A1-UC1             | \$43.72            | \$58.11            | \$72.50        | H H H H H H H D Y  |
|  | <b>Apprentice Rates:</b> |                    |                    |                |                    |
|  | 0-999 hours              | \$34.89            | \$44.97            | \$55.04        |                    |
|  | 1,000-1,999 hours        | \$36.33            | \$47.13            | \$57.92        |                    |
|  | 2,000-2,999 hours        | \$37.76            | \$49.27            | \$60.78        |                    |
|  | 3,000-3,999 hours        | \$39.21            | \$51.45            | \$63.68        |                    |
|  | 4,000-4,999 hours        | \$40.65            | \$53.61            | \$66.56        |                    |
|  | 5,000-5,999 hours        | \$42.09            | \$55.77            | \$69.44        |                    |
| Class II Equipment   | EN-324A1-UC2             | \$38.99            | \$51.02            | \$63.04        | H H H H H H H D Y  |

Official Request #: 1307

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Project Description: PHONE INSTALLATION

Project Number: NEW BAKER MIDDLE SCHOOL

County: Oakland

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# Official 2006 Prevailing Wage Rates for State Funded Projects

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| Classification<br>Name      Description  |                   | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|--|-------------------|--------------------|--------------------|----------------|--------------------|
| Class III Equipment  | EN-324A1-UC3      | \$38.26            | \$48.40            | \$58.54        | H H H H H H H D Y  |
| Class IV Equipment   | EN-324A1-UC4      | \$37.69            | \$49.07            | \$60.44        | H H H H H H H D Y  |
| Master Mechanic  | EN-324A1-UMM      | \$43.97            | \$58.49            | \$73.00        | H H H H H H H D Y  |
| <b>Painter</b>   |                   |                    |                    |                |                    |
| Painter (8 hours of repaint work performed on Sunday shall be paid time & one half rate)   | PT-22-P           | \$38.01            | \$50.24            | \$62.47        | H H D H D D D D N  |
| <b>Apprentice Rates:</b>   |                   |                    |                    |                |                    |
|  | 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           | \$38.81            | \$51.44            | \$64.07        | H H D H D D D D N  |
| <b>Pipefitter</b>  |                   |                    |                    |                |                    |
| Pipefitter   | PF-636            | \$51.46            | \$66.44            | \$81.41        | H H D H D D D D N  |
| <b>Apprentice Rates:</b>   |                   |                    |                    |                |                    |
|  | 1st & 2nd periods | \$26.23            | \$33.23            | \$40.23        |                    |
|  | 3rd period        | \$28.23            | \$36.23            | \$44.23        |                    |
|  | 4th period        | \$29.48            | \$38.11            | \$46.73        |                    |
|  | 5th period        | \$30.73            | \$39.98            | \$49.23        |                    |
|  | 6th period        | \$31.98            | \$41.85            | \$51.73        |                    |
|  | 7th period        | \$33.23            | \$43.73            | \$54.23        |                    |
|  | 8th period        | \$34.23            | \$45.23            | \$56.23        |                    |
|  | 9th period        | \$35.23            | \$46.73            | \$58.23        |                    |
|  | 10th period       | \$36.66            | \$48.87            | \$61.09        |                    |

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| Classification   |                          |                    |                    |                |                    |
|------------------|--------------------------|--------------------|--------------------|----------------|--------------------|
| Name             | Description              | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
| <b>Plasterer</b> |                          |                    |                    |                |                    |
| Plasterer        | BR1P                     | \$40.97            | \$61.46            | \$81.94        | H H H H H H D N    |
|                  | <b>Apprentice Rates:</b> |                    |                    |                |                    |
|                  | 1st 6 months             | \$20.77            | \$31.16            | \$41.54        |                    |
|                  | 2nd 6 months             | \$24.16            | \$36.24            | \$48.32        |                    |
|                  | 3rd 6 months             | \$27.52            | \$41.28            | \$55.04        |                    |
|                  | 4th 6 months             | \$30.88            | \$46.32            | \$61.76        |                    |
|                  | 5th 6 months             | \$34.25            | \$49.58            | \$66.10        |                    |
|                  | 6th 6 months             | \$37.61            | \$56.42            | \$75.22        |                    |
| Plasterer        | PL67                     | \$38.32            | \$52.78            | \$67.24        | H H H X D D D D N  |
|                  | <b>Apprentice Rates:</b> |                    |                    |                |                    |
|                  | 1st 6 months             | \$20.97            | \$26.76            | \$32.54        |                    |
|                  | 2nd 6 months             | \$23.86            | \$31.09            | \$38.32        |                    |
|                  | 3rd 6 months             | \$26.75            | \$35.42            | \$44.10        |                    |
|                  | 4th 6 months             | \$29.64            | \$39.76            | \$49.88        |                    |
|                  | 5th 6 months             | \$32.54            | \$44.11            | \$55.68        |                    |
|                  | 6th 6 months             | \$35.43            | \$48.44            | \$61.46        |                    |
| <b>Plumber</b>   |                          |                    |                    |                |                    |
| Plumber          | PL-98                    | \$49.58            | \$67.10            | \$82.61        | H H D H D D D D Y  |
|                  | <b>Apprentice Rates:</b> |                    |                    |                |                    |
|                  | Period 1                 | \$18.11            | \$25.11            | \$32.11        |                    |
|                  | Period 2                 | \$20.30            | \$28.39            | \$36.49        |                    |
|                  | Period 3                 | \$30.47            | \$40.85            | \$50.13        |                    |
|                  | Period 4                 | \$31.16            | \$41.89            | \$51.51        |                    |
|                  | Period 5                 | \$32.45            | \$43.83            | \$54.09        |                    |
|                  | Period 6                 | \$33.73            | \$45.75            | \$56.65        |                    |
|                  | Period 7                 | \$35.01            | \$47.67            | \$59.21        |                    |
|                  | Period 8                 | \$36.31            | \$49.61            | \$61.81        |                    |
|                  | Period 9                 | \$37.59            | \$51.53            | \$64.37        |                    |
|                  | Period 10                | \$38.87            | \$53.45            | \$66.93        |                    |

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| Classification                   | Name  | Description | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|----------------------------------|---|-------------|--------------------|--------------------|----------------|--------------------|
| <b>Roofer</b>                    |   |             |                    |                    |                |                    |
|                                  | Commercial Roofer   | RO-149-WOM  | \$45.01            | \$58.72            | \$72.42        | H H D H H H D D N  |
|                                  | Straight time is not to exceed ten (10) hours per day or forty (40) hours per week. |             |                    |                    |                |                    |
|                                  | <b>Apprentice Rates:</b>  |             |                    |                    |                |                    |
|                                  |   |             | \$29.78            | \$36.88            | \$44.64        |                    |
|                                  |   |             | \$33.80            | \$41.54            | \$49.52        |                    |
|                                  |   |             | \$35.16            | \$43.50            | \$52.14        |                    |
|                                  |   |             | \$36.15            | \$44.94            | \$54.06        |                    |
|                                  |   |             | \$37.33            | \$46.64            | \$56.32        |                    |
|                                  |   |             | \$38.67            | \$48.58            | \$58.90        |                    |
| <br>                             |   |             |                    |                    |                |                    |
| <b>Sheet Metal Worker</b>        |   |             |                    |                    |                |                    |
|                                  | Sheet Metal Worker  | SHM-80      | \$51.82            | \$69.04            | \$86.25        | H H D H D D D D Y  |
|                                  | <b>Apprentice Rates:</b>  |             |                    |                    |                |                    |
|                                  |   |             | \$34.61            | \$43.22            | \$51.83        |                    |
|                                  |   |             | \$35.98            | \$45.27            | \$54.57        |                    |
|                                  |   |             | \$37.36            | \$47.34            | \$57.33        |                    |
|                                  |   |             | \$40.11            | \$51.47            | \$62.83        |                    |
|                                  |   |             | \$42.86            | \$55.59            | \$68.33        |                    |
| <br>                             |   |             |                    |                    |                |                    |
|                                  | Siding & Decking  | SHM-80-SD   | \$34.58            | \$46.03            | \$57.48        | H H H H H H H D Y  |
| <br>                             |   |             |                    |                    |                |                    |
| <b>Sound &amp; Communication</b> |   |             |                    |                    |                |                    |
|                                  | Installer/Technician  | EC-58-SC    | \$29.33            | \$41.30            | \$53.26        | H H H H H H H D N  |
|                                  | <b>Apprentice Rates:</b>  |             |                    |                    |                |                    |
|                                  |   |             | \$17.16            | \$23.04            | \$28.93        |                    |
|                                  |   |             | \$18.38            | \$24.88            | \$31.37        |                    |
|                                  |   |             | \$19.59            | \$26.69            | \$33.79        |                    |
|                                  |   |             | \$20.81            | \$28.53            | \$36.23        |                    |
|                                  |   |             | \$22.02            | \$30.33            | \$38.65        |                    |
|                                  |   |             | \$23.24            | \$32.17            | \$41.09        |                    |

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| <u>Classification</u>   |             |                          | Straight | Time and | Double  | Overtime          | Provision |
|-------------------------|-------------|--------------------------|----------|----------|---------|-------------------|-----------|
| Name                    | Description |                          | Hourly   | a Half   | Time    |                   |           |
| <b>Sprinkler Fitter</b> |             |                          |          |          |         |                   |           |
| Sprinkler Fitter        |             | SP 704                   | \$54.02  | \$73.14  | \$92.25 | H H D H D D D D Y |           |
|                         |             | <b>Apprentice Rates:</b> |          |          |         |                   |           |
|                         |             | 1st Period               | \$33.03  | \$40.68  | \$48.33 |                   |           |
|                         |             | 2nd Period               | \$34.94  | \$43.55  | \$52.15 |                   |           |
|                         |             | 3rd Period               | \$36.85  | \$46.41  | \$55.97 |                   |           |
|                         |             | 4th Period               | \$38.76  | \$49.27  | \$59.79 |                   |           |
|                         |             | 5th Period               | \$40.67  | \$52.14  | \$63.61 |                   |           |
|                         |             | 6th Period               | \$42.58  | \$55.01  | \$67.43 |                   |           |
|                         |             | 7th Period               | \$44.50  | \$57.89  | \$71.27 |                   |           |
|                         |             | 8th Period               | \$46.41  | \$60.75  | \$75.09 |                   |           |
|                         |             | 9th Period               | \$48.32  | \$63.61  | \$78.91 |                   |           |
|                         |             | 10th Period              | \$50.23  | \$66.48  | \$82.73 |                   |           |
| <b>Terrazzo</b>         |             |                          |          |          |         |                   |           |
| Terrazzo Finisher       |             | TT32-TRF                 | \$37.57  | \$47.47  | \$57.37 | H H D H D D D D N |           |
|                         |             | <b>Apprentice Rates:</b> |          |          |         |                   |           |
|                         |             | Level 1                  | \$19.15  | \$24.74  | \$30.33 |                   |           |
|                         |             | Level 2                  | \$19.78  | \$25.69  | \$31.59 |                   |           |
|                         |             | Level 3                  | \$12.49  | \$18.74  | \$24.98 |                   |           |
|                         |             | Level 4                  | \$24.38  | \$31.25  | \$38.13 |                   |           |
|                         |             | Level 5                  | \$25.67  | \$32.75  | \$39.83 |                   |           |
|                         |             | Level 6                  | \$27.56  | \$35.09  | \$42.62 |                   |           |
|                         |             | Level 7                  | \$28.50  | \$36.12  | \$43.74 |                   |           |
|                         |             | Level 8                  | \$29.78  | \$37.65  | \$45.51 |                   |           |
| Terrazzo Worker         |             | TT32-TRW                 | \$42.29  | \$54.80  | \$67.31 | H H D H D D D D N |           |
|                         |             | <b>Apprentice Rates:</b> |          |          |         |                   |           |
|                         |             | Level 1                  | \$23.46  | \$30.21  | \$36.96 |                   |           |
|                         |             | Level 2                  | \$26.11  | \$33.60  | \$41.08 |                   |           |
|                         |             | Level 3                  | \$28.80  | \$36.55  | \$44.31 |                   |           |
|                         |             | Level 4                  | \$31.10  | \$39.68  | \$48.26 |                   |           |
|                         |             | Level 5                  | \$33.16  | \$42.17  | \$51.17 |                   |           |
|                         |             | Level 6                  | \$36.34  | \$46.75  | \$57.17 |                   |           |
|                         |             | Level 7                  | \$37.40  | \$48.21  | \$59.03 |                   |           |
|                         |             | Level 8                  | \$38.21  | \$49.43  | \$60.65 |                   |           |

Official Request #: 1307  
 Requestor: TROY SCHOOL DISTRICT  
 Project Description: PHONE INSTALLATION  
 Project Number: NEW BAKER MIDDLE SCHOOL  
 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 2006 Prevailing Wage Rates for State Funded Projects

Issue Date: 12/8/2006

Contract must be awarded by 3/8/2007

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| Classification | Name   | Description              | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
|----------------|--|--------------------------|--------------------|--------------------|----------------|--------------------|
| <b>Tile</b>    |  |                          |                    |                    |                |                    |
|                | Tile Finisher                                  | TT32-TF                  | \$37.19            | \$46.90            | \$56.61        | H H D H D D D D N  |
|                |  | <b>Apprentice Rates:</b> |                    |                    |                |                    |
|                |  | Level 1                  | \$18.06            | \$23.11            | \$28.15        |                    |
|                |  | Level 2                  | \$19.08            | \$24.63            | \$30.19        |                    |
|                |  | Level 3                  | \$23.09            | \$29.32            | \$35.55        |                    |
|                |  | Level 4                  | \$24.35            | \$31.21            | \$38.07        |                    |
|                |  | Level 5                  | \$25.64            | \$32.71            | \$39.77        |                    |
|                |  | Level 6                  | \$27.03            | \$34.46            | \$41.90        |                    |
|                |  | Level 7                  | \$28.47            | \$35.95            | \$43.43        |                    |
|                |  | Level 8                  | \$29.75            | \$37.48            | \$45.20        |                    |
|                | Tile Layer                                     | TT32-TL                  | \$42.19            | \$54.65            | \$67.11        | H H D H D D D D N  |
|                |  | <b>Apprentice Rates:</b> |                    |                    |                |                    |
|                |  | Level 1                  | \$23.46            | \$30.21            | \$36.96        |                    |
|                |  | Level 2                  | \$26.11            | \$33.60            | \$41.08        |                    |
|                |  | Level 3                  | \$28.80            | \$36.55            | \$44.31        |                    |
|                |  | Level 4                  | \$31.10            | \$39.68            | \$48.26        |                    |
|                |  | Level 5                  | \$33.11            | \$41.96            | \$50.82        |                    |
|                |  | Level 6                  | \$36.29            | \$46.68            | \$57.07        |                    |
|                |  | Level 7                  | \$36.85            | \$47.39            | \$57.93        |                    |
|                |  | Level 8                  | \$37.66            | \$48.61            | \$59.55        |                    |
|                | <b>Truck Driver</b>                            |                          |                    |                    |                |                    |
|                | on all trucks of 8 cubic yard capacity or less | TM-RB1                   | \$32.62            | \$35.55            |                | H H H H H H H Y    |
|                | of all trucks of 8 cubic yard capacity or over | TM-RB1A                  | \$32.72            | \$35.70            |                | H H H H H H H Y    |
|                | on euclid type equipment                       | TM-RB1B                  | \$32.87            | \$35.93            |                | H H H H H H H Y    |
|                | <b>Underground Laborer Open Cut, Class I</b>   |                          |                    |                    |                |                    |
|                | Construction Laborer                           | LAUC-Z1-1                | \$32.39            | \$42.99            | \$53.58        | H H H H H H H D Y  |
|                |  | <b>Apprentice Rates:</b> |                    |                    |                |                    |
|                |  | 0-1,000 work hours       | \$27.59            | \$35.78            | \$43.98        |                    |
|                |  | 1,001-2,000 work hours   | \$28.55            | \$37.22            | \$45.90        |                    |
|                |  | 2,001-3,000 work hours   | \$29.51            | \$38.66            | \$47.82        |                    |
|                |  | 3,001-4,000 work hours   | \$31.43            | \$41.54            | \$51.66        |                    |

Official Request #: 1307  
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# Official 2006 Prevailing Wage Rates for State Funded Projects

Issue Date: 12/8/2006

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| Classification                                 |  |                    |                    |                |                    |
|--|--|--------------------|--------------------|----------------|--------------------|
| Name   | Description  | Straight<br>Hourly | Time and<br>a Half | Double<br>Time | Overtime Provision |
| <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.  | \$32.50            | \$43.15            | \$53.80        | H H H H H H H D Y  |
|  | LAUC-Z1-2  |                    |                    |                |                    |
|  | <b>Apprentice Rates:</b>   |                    |                    |                |                    |
|  | 0-1,000 work hours   | \$27.68            | \$35.92            | \$44.16        |                    |
|  | 1,001-2,000 work hours   | \$28.64            | \$37.36            | \$46.08        |                    |
|  | 2,001-3,000 work hours   | \$29.60            | \$38.80            | \$48.00        |                    |
|  | 3,001-4,000 work hours   | \$31.54            | \$41.71            | \$51.88        |                    |
| <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. | \$32.55            | \$43.23            | \$53.90        | H H H H H H H D Y  |
|  | LAUC-Z1-3  |                    |                    |                |                    |
|  | <b>Apprentice Rates:</b>   |                    |                    |                |                    |
|  | 0-1,000 work hours   | \$27.71            | \$35.96            | \$44.22        |                    |
|  | 1,001-2,000 work hours   | \$28.68            | \$37.42            | \$46.16        |                    |
|  | 2,001-3,000 work hours   | \$29.65            | \$38.88            | \$48.10        |                    |
|  | 3,001-4,000 work hours   | \$31.58            | \$41.77            | \$51.96        |                    |
| <b>Underground Laborer Open Cut, Class IV</b>  |  |                    |                    |                |                    |
|  | Trench or excavating grade man.  | \$32.63            | \$43.35            | \$54.06        | H H H H H H H D Y  |
|  | LAUC-Z1-4  |                    |                    |                |                    |
|  | <b>Apprentice Rates:</b>   |                    |                    |                |                    |
|  | 0-1,000 work hours   | \$27.77            | \$36.06            | \$44.34        |                    |
|  | 1,001-2,000 work hours   | \$28.74            | \$37.51            | \$46.28        |                    |
|  | 2,001-3,000 work hours   | \$29.72            | \$38.98            | \$48.24        |                    |
|  | 3,001-4,000 work hours   | \$31.66            | \$41.89            | \$52.12        |                    |
| <b>Underground Laborer Open Cut, Class V</b>   |  |                    |                    |                |                    |
|  | Pipe Layer   | \$32.69            | \$43.44            | \$54.18        | H H H H H H H D Y  |
|  | LAUC-Z1-5  |                    |                    |                |                    |
|  | <b>Apprentice Rates:</b>   |                    |                    |                |                    |
|  | 0-1,000 work hours   | \$27.82            | \$36.13            | \$44.44        |                    |
|  | 1,001-2,000 work hours   | \$28.79            | \$37.58            | \$46.38        |                    |
|  | 2,001-3,000 work hours   | \$29.77            | \$39.06            | \$48.34        |                    |
|  | 3,001-4,000 work hours   | \$31.72            | \$41.98            | \$52.24        |                    |

Official Request #: 1307

Requestor: TROY SCHOOL DISTRICT

Project Description: PHONE INSTALLATION

Project Number: NEW BAKER MIDDLE SCHOOL

County: Oakland

## Official Rate Schedule

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# Official 2006 Prevailing Wage Rates for State Funded Projects

Issue Date: 12/8/2006

Contract must be awarded by 3/8/2007

Page 20 of 20

| Classification                                 |   | Straight | Time and | Double  | Overtime Provision |
|--|---|----------|----------|---------|--------------------|
| Name   | Description   | Hourly   | a Half   | Time    |                    |
| <b>Underground Laborer Open Cut, Class VI</b>  |   |          |          |         |                    |
|  | Grouting man, top man assistant, audio visual television operations and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work.     | \$30.14  | \$39.61  | \$49.08 | H H H H H H H D Y  |
|  | <b>Apprentice Rates:</b>  |          |          |         |                    |
|  | 0-1,000 work hours  | \$25.90  | \$33.25  | \$40.60 |                    |
|  | 1,001-2,000 work hours  | \$26.75  | \$34.52  | \$42.30 |                    |
|  | 2,001-3,000 work hours  | \$27.60  | \$35.80  | \$44.00 |                    |
|  | 3,001-4,000 work hours  | \$29.29  | \$38.34  | \$47.38 |                    |
| <b>Underground Laborer Open Cut, Class VII</b> |   |          |          |         |                    |
|  | Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes, flagstones etc. | \$26.76  | \$34.54  | \$42.32 | H H H H H H H D Y  |
|  | <b>Apprentice Rates:</b>  |          |          |         |                    |
|  | 0-1,000 work hours  | \$23.37  | \$29.46  | \$35.54 |                    |
|  | 1,001-2,000 work hours  | \$24.05  | \$30.48  | \$36.90 |                    |
|  | 2,001-3,000 work hours  | \$24.73  | \$31.50  | \$38.26 |                    |
|  | 3,001-4,000 work hours  | \$26.08  | \$33.52  | \$40.96 |                    |

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**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.**



MICHIGAN DEPARTMENT OF LABOR & ECONOMIC GROWTH  
WAGE & HOUR DIVISION

**OVERTIME PROVISIONS for MICHIGAN PREVAILING WAGE RATE SCHEDULE**

1. 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.

2. 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

3. 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.

XXXHHHHDY - 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.

# 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.

### **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), Sweeper (Wayne type and similar equipment), Tractor (pneu-tired, other than backhoe or front end loader), Trencher (8' digging capacity and smaller).

### **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).

## 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, Loader, Pug Mill, Pumpcrete Machines, Pump Trucks, Roller, Scraper (self-propelled or tractor drawn), Side Boom Tractor, Slip Form Paver, Slop 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, and Welding Machine.

Regular Crane Operators rate shall include: Mechanics, Crane Operators, Dragline Operators, Boom Truck Operators, Power Shovel Operators and Concrete Pumps with booms.

Revised: 09/07/06

**TROY SCHOOL DISTRICT  
NEW BAKER MIDDLE SCHOOL  
BID 9377 VOICE COMMUNICATION**

**SunTel Services, LLC**

|                            |           |                   |
|----------------------------|-----------|-------------------|
| Voice Communication System | \$        | <b>35,687.00</b>  |
| OPS Manager Upgrade        |           | <b>12,632.00</b>  |
| Voice Mail                 |           | <b>56,660.00</b>  |
| Emergency Advisor          |           | <b>51,908.00</b>  |
| <b>TOTAL</b>               | <b>\$</b> | <b>156,887.00</b> |

**Mandatory Alternates:**

Alternate No. 1: Remove the server hardware included in base bid and provide required specifications for Unified Messaging server to be provided TSD. Deduct 4,224.32

Alternate No. 2: Remove the two (2) fiber Mu: Deduct 2,190.00

Alternate No. 3: Remove new Unified Messaging and reuse existing voice mail system Deduct 56,929.49

Alternate No. 4: Provide centralized training in place of per site training, for Unified Messaging. Note: User training centralized or at each site Deduct 9,804.41

Alternate No. 5: Increase Unified Messaging to 36 ports. License and storage to remain the same. Add 1,229.82

Alternate No. 6: Deduct to have Owner place all telephone sets. Deduct 1,374.45

**Voluntary Alternates:**

Alternate No. 1: Upgrade to all Sites 2,056.00

Alternate No. 2: Alternate Voicemail 72,645.00