

Troy School District

Troy, Mi.

Athens and Troy High School

**Track Renovations
Bid No. 9780**

Specifications Prepared By:



3269 Coolidge Hwy.
Berkley, MI 48072
(248) 547-7757

RELEASE DATE: April 14, 2014

BIDS DUE: April 30, 2014 @ 2:00 P.M.

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PROJECT MANUAL

PROJECT:

**Track Resurfacing
Athens High School**
4333 John R. Road
Troy, MI 48085

**Track Resurfacing
Troy High School**
4777 Northfield Parkway
Troy, MI 48098

OWNER:

Troy School District
1140 Rankin Street
Troy, MI 48083

LANDSCAPE ARCHITECT:

Foresite Design, Inc.
3269 Coolidge Hwy.
Berkley, Michigan, 48072
(248) 547-7757

PROJECT NO.:

9780

RELEASE DATE:

April 14, 2014

BIDS DUE:

April 30, 2014 @ 2:00 p.m.

LOCATION of BID OPENING:

Troy School District
1140 Rankin Street
Troy, MI 48083

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TABLE OF CONTENTS

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

Troy School District Boiler Plate

- 00 1113 Advertisement for Bid
- 00 1115 Scope of Work
- 00 2113 Instructions to Bidders
- 00 4200 Proposal Forms:
 - Proposal A
 - 00 4244 Unit Prices Form
 - Proposal B
 - 00 4244 Unit Prices Form
- 00 4336 List of Subcontractors
- 00 4343 Prevailing Wage Rates
- 00 4550 Familial Relationships
- 00 4519 Non-Collusive Affidavit Form
- 00 4550 Iran Economic Sanction Compliance
- 00 6542 Warranty and Guarantee
- 00 7300 Supplementary Conditions

DIVISION 01 – GENERAL REQUIREMENTS

- 01 2300 Alternates
- 01 2619 Clarification Request
- 01 3523 Safety Requirements
- 01 4100 Regulatory Requirements

DIVISION 02 – EXISTING CONDITIONS

- 02 4113 Demolition

DIVISION 03 – CONCRETE

- 03 3000 Cast in Place Concrete
- 03 3010 Portland Cement

DIVISION 31 – EARTHWORK

- 31 1000 Site Preparation/Clearing

SECTION 00 0110
TABLE OF CONTENTS**DIVISION 32 – EXTERIOR IMPROVEMENTS**

- 32 1124 Aggregate Base
- 32 1217 Plant Mix Bituminous Pavement
- 32 1724 Track Markings
- 32 1826 Track Surface
- 32 1828 Long Jump Pit Sand
- 32 9227 General Lawn Restoration

DRAWINGS

<u>Sheet #</u>	<u>Title</u>
CS1.00	COVER.SHEET
T1.01	Troy High School Existing Conditions & Demolition Plan
T1.02	Troy High School Site Plan
T1.03	Troy High School Dimension Plan
T1.04	Troy High School Grading and Drainage Plan
T2.01	Troy Athens High School Existing Conditions & Demolition Plan
T2.02	Troy Athens High School Site Plan
T2.03	Troy Athens High School Dimension Plan
T2.04	Troy Athens High School Grading and Drainage Plan
LD1.01	Details



**INVITATION TO BID
BID NO. 9780
TRACK FACILITY RENOVATIONS
ATHENS AND TROY HIGH SCHOOLS
TROY SCHOOL DISTRICT**

The Troy School District will receive firm, sealed bids for all labor, materials, equipment and all other services to complete a Track Renovations project at Athens and Troy High Schools, for Troy Schools.

Bid documents, hardcopy or CD, may be purchased from the office of Foresite Design, Inc., 3269 Coolidge Highway, Berkley, Michigan, 48072, for a \$15.00 non-refundable deposit made payable to Foresite Design, Inc. Bidding documents may be viewed at McGraw Hill Dodge Plan Room or <ftp://ftp.foresitedesign.com>.

Your proposal and two copies, marked "**Track Facility Renovations**" must be delivered no later than 2 p.m., Wednesday, April 30, 2014, Purchasing Department, Troy School District, 1140 Rankin, Troy, Michigan 48083, at which time all bids will be publicly opened and read aloud immediately thereafter. Bid proposals received after this time will not be considered or accepted.

All questions regarding the bid specified, or the bid terms and conditions will be accepted in writing ONLY and subsequently answered through an addendum to all interested parties. Any questions must be received no later than noon, Monday, April 21, 2014, at no other time prior to the bid opening will questions/concerns be addressed or accepted and may be faxed to: 248.823.4077, or emailed as a Word document to: PurchasingOffice@troy.k12.mi.us.

The Troy Board of Education reserves the right to accept or reject any or all bids, either in whole or in part; to award contract to other than the low bidder; to waive any irregularities and/or informalities; and in general to make awards in any manner deemed to be in the best interest of the owner.

Purchasing Department
Troy School District
1140 Rankin
Troy, MI 48083

SECTION 00 1113
ADVERTISEMENT FOR BID

Troy School District, 1140 Rankin, City, MI 48083 will receive sealed bid proposals until **2:00 p.m.** on April 30, 2014. Bids will be opened and publicly read aloud immediately following the deadline for submission for the following bid package:

**Athens and Troy High School
Track Facility Renovations**

*** Track Facility Renovations ***

1. All bids must be addressed to:

**Troy School District
1140 Rankin Street
Troy, MI 48083**

Attn: Todd Hensley- Purchasing Supervisor

2. Sealed bids will be publicly opened and read aloud:

Place: **Troy School District
1140 Rankin Street
Troy, MI 48083**

Date: **April 30, 2014**

Time: 2:00 p.m.

3. Questions may be addressed to:

- a. Foresite Design, Inc.
Bruce Lemons, R.L.A. (248) 547-7757
- b. Troy School District at PurchasingOffice@troy.k12.mi.us.
- c. All questions must be submitted in writing utilizing "01 2619 Clarification Request" form. Clarifications requested orally will not be accepted.
- d. All clarifications must be submitted by noon on Monday, April 21, 2014

4. Bidding Documents may be viewed:

- Places:
- a. McGraw Hill Dodge Plan Room
 - b. Construction Association of Michigan Plan Room
 - c. <ftp://ftp.foresitedesign.com>

Date: April 14, 2014

SECTION 00 1113
ADVERTISEMENT FOR BID

5. Bidding Documents may be obtained:

Place: Foresite Design, Inc.
3269 Coolidge Highway
Berkley, MI 48072

Deposit for Hard Copy: **\$15.00 (NON-REFUNDABLE)**

Mailing Fee for Hard Copy: **\$15.00** (Providing a valid UPS/FedEx account number, waives fee)

Deposit for CD: **\$15.00 (NON-REFUNDABLE)**

Mailing Fee for CD: **\$15.00** (Providing a valid UPS/FedEx account number, waives fee)

Online: <ftp://ftp.foresitedesign.com>

**** Make check payable to: Foresite Design, Inc. ****

6. Bonding is required as follows:

Bid Bond: 5% of the Bid Amount

Performance Bond and Labor & Material Bond: 100% of the Contract Price

7. The Bid Bond

- a. Bid Security or Cashier's Check, or Certified Check in the amount of five percent (5%) of the bid amount shall be submitted with the "Bid Proposal Packet" and shall be made payable to Troy School District and be submitted with the understanding that if his/her bid is accepted, he/she will enter into a formal contract with the Owner in accordance with the form of agreement AIA A101 and that the required Performance and Payment Bonds will be given. Bidders shall agree not to withdraw proposals for a period of sixty (60) days after date for receipt of bids.

8. The Performance Bond & Labor and Material Payment

- a. Accepted bidders will be required to furnish in the amount of one hundred percent (100%) of the Contract Price, satisfactory Performance Bond and Labor and Material Payment Bond by a T-listed bonding company, acceptable to Troy School District, within (ten) 10 days of notifications of intent to enter into a contract with Troy School District. Failure to do so will result in forfeiture of the proposal guarantee.

9. Additional Pertinent Information

All applicable insurance policies will be required of each accepted bidder.

This project is not tax exempt from State Sales Tax and/or Use Tax. All materials and supplies incorporated and used in construction of the work and becoming a permanent part of this project will not be exempt from State Sales Tax and/or Use Tax. State Sales Tax/Use Tax shall be included in

SECTION 00 1113
ADVERTISEMENT FOR BID

the bid price. All other taxes, fees, permits, etc. and shipping costs shall also be included.

SECTION 00 1113
ADVERTISEMENT FOR BID

10. Bidding Submittal Requirements

The Bid Proposal Packet shall be on forms furnished in these documents.
THE BID PROPOSAL PACKET MUST BE SUBMITTED IN DUPLICATE.

The following Bid Proposal Packet information and Additional Information must be submitted in the following order.

1. Proposal Form
2. Unit Price Form
3. Bid Security
4. Familial Disclosure Statement
5. Iran Economic Sanctions Act

11. Tentative Construction Schedule:

Proposal A: Site Work

Start-	June 9, 2014
Complete-	June 30, 2014

Proposal B: All-Weather Surface

Start-	July 14, 2014
Complete-	July 31, 2014

All bidders must provide familial disclosure in compliance with MCL 380.1267. The bid proposal will be accompanied by a sworn and notarized statement disclosing any familial relationship that exists between the owner or any employee of the bidder and any member of the **Board of Education** or **Troy School District**. The School District will not accept a bid proposal that does not include this sworn and notarized disclosure statement.

No bid(s) will be accepted after the above time and date. Bids received after the deadline will be returned unopened. Delivery of the bids is the responsibility of the bidder, whether by mail or in person. Also, the **Troy School District** is not responsible for delays or failures of any other party.

The Owner reserves the right to accept or reject any or all bids and further reserves the right to award each proposal separately and to evaluate any or all bids on factors including but not limited to low bid and to the best advantage of the **Troy School District**.

All contracts to be entered into by the **Troy School District** must and will comply with the prevailing wage and equal opportunity laws of the State of Michigan and **Troy School District**.

END OF SECTION 00 1113

SECTION 00 1113
ADVERTISEMENT FOR BID

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SECTION 00 1200
SCOPE OF WORK

PROPOSAL A: General Construction

CM Supplementary Conditions
General Conditions
Division 1 General Requirements

Specification Section	02 4113	Demolition
Specification Section	03 3000	Cast in Place Concrete
Specification Section	03 3010	Portland Cement
Specification Section	31 1000	Site Preparation
Specification Section	32 1124	Aggregate Base
Specification Section	32 1217	Plant Mix Bituminous Asphalt Pavement
Specification Section	32 1828	Long Jump Pit Sand
Specification Section	32 9227	General Lawn Restoration

General Scope of Work:

1. Requirements of items included under General Work to be completed by all contractors.
2. Provide engineering and layout as required to complete this work. Layout points of reference will be provided prior to commencement of work.
3. Include all required permits and bonds.
4. Perform earthwork as necessary to establish grades, and site grading to within 0.1 feet of the sub-grades indicated.
5. Coordinate work with other trades on site.
6. Strict enforcement of this contractor's requirement to provide timely clean-up, removal and disposal of all rubbish and debris generated by this trade during the work. Maintain a clean condition at all areas on site and free from dirt, mud, and gravel.
7. Coordinate final location of new sanitary, water and electrical service to building provided by others.
8. Clean up and remove from site all debris associated with this work. Include sweeping of parking lots and public and private streets.
9. Provide five sets of material submittal for approval. If submittals comply with specifications, "Material Compliance Certificate" shall be used.
10. Note: Milestone Schedule. This trade will be required to confirm a detailed schedule prior to award of this contract.

Excluded Work:

1. Electrical Service to Building
2. Field Lighting

PROPOSAL B: All-Weather Surface

CM Supplementary Conditions
General Conditions
Division 1 General Requirements

Specification Section	32 1724	Track Markings
Specification Section	32 1816	All-Weather Surface

SECTION 00 1200
SCOPE OF WORK**General Scope of Work:**

1. Requirements of items included under General Work to be completed by all contractors.
2. Provide engineering and layout as required to complete this work. Layout points of reference will be provided prior to commencement of work.
3. Include all required permits and bonds.
4. Perform earthwork as necessary to establish grades, and site grading to within 0.1 feet of the sub-grades indicated.
5. Coordinate work with other trades on site.
6. Clean up and remove from site all debris associated with this work. Include sweeping of parking lots and public and private streets.
7. Provide 5 sets of maintenance & OEM for all equipment in specifications.
8. Provide five sets of material submittal for approval.
9. **Note:** Milestone Schedule. This trade will be required to confirm a detailed schedule prior to award of this contract.

SECTION 00 2113
INSTRUCTIONS TO BIDDERS

STANDARD FORM

The Standard Form of Instructions to Bidders, AIA Document A701, 1997 edition, issued by the American Institute of Architects, is part of this specification. Copies are on file and may be obtained at the office of the Architect.

TABLE OF ARTICLES

1. Definitions	6. Post-Bid Information
2. Bidder's Representation	7. Performance Bond and Payment Bond
3. Bidding Documents	8. Form of Agreement Between Owner and Contractor
4. Bidding Procedures	9. Description of Work
5. Consideration of Bids	10. Warranty & Indemnity

The following includes modifications or additions to the above standard form which are applicable to this project.

ARTICLE 1DEFINITIONS

- 1.2 All definitions set forth in the General Conditions of the Contract for Construction, AIA Document A201, are applicable to these Instructions to Bidders.
- 1.3 Addenda are written or graphic instruments issued prior to the execution of the Contract which modify or interpret the bidding documents, including Drawings and Specifications, by additions, deletions, clarifications or corrections. Addenda will become part of the Contract Documents when the Construction Contract is executed. All changes in cost resulting from addenda shall be included in proposals.

ARTICLE 2BIDDER'S REPRESENTATION

- 2.1.3 Each bidder, by making his bid, represents that he has visited the site and familiarized himself with the local conditions under which the work is to be performed. No claims for extra compensation shall be allowed due to failure of any Bidder to examine the conditions that exist at the building site nor for conditions or difficulties encountered in the execution of the work which may have been avoided by such examination.

In submitting his proposal, the Bidder also:

- represents that he has reviewed the work outlined in the Description of Work and fully understands the scope of the work required by interfacing Bid Categories as well as that required by Bid Categories covered in his proposal;

SECTION 00 2113
INSTRUCTIONS TO BIDDERS

- acknowledges that the scope of the work is not necessarily restricted to a single trade, specification division, or section and that his proposal includes the work of all trades within the Bid Category or Categories covered in his proposal;
 - agrees that his proposal, if accepted by the Owner, will be the basis for a contract directly with the Owner and to enter into such contract in accordance with the intent of the Contract Documents.
- 2.1.5 The Bidder shall familiarize himself, prior to bidding, with the work requirements of all other contractors which precede, interface, follow, or are concurrent with the work of this Category.

ARTICLE 3BIDDING DOCUMENTS3.3 SUBSTITUTIONS

- 3.3.1 Each Bidder represents that his bid is based upon the materials and equipment described in the Bidding Documents.
- 3.3.2 The successful Contractor must include without approved substitution, all materials and equipment which are specifically identified by manufacturer's name, model or catalog number in the respective Specification Section. Where more than one (1) product or material manufacturer is specified, the Bidder may use the one of his choice in his base bid. It is required that Bidder indicated his choice of material by identifying same in check list attached to his proposal together with the cost attributed to such material. This cost shall be a part of Base Bid, not in addition thereto.

Other substitutions will be considered only when:

- A. Request of substitution by the Bidder is made seven (7) days prior to the bid opening and approval for such request is given in the form of an Addendum.
- B. Offered as a voluntary alternate presented on the Bidder's letterhead together with the amount to be deducted from his base proposal. The Owner may accept or reject such voluntary alternate based upon his best judgment.
- 3.3.2.1 Each such request shall include a complete description of their proposed substitute, the name of the material or equipment for which it is to be substituted, drawings, cuts, performance and test data and any other data or information necessary for a complete evaluation.
- 3.3.2.2 The Owner shall receive the benefit of all cost differences resulting from any substitution.
- 3.3.2.3 Any revisions necessary after substitutions of equipment or materials have been approved shall be the full responsibility of the Contractor without extra cost to the Owner.

SECTION 00 2113
INSTRUCTIONS TO BIDDERS

- 3.3.4 Refer to Article 3.19 of Supplementary Conditions regarding substitutions after Award of Contract.

ARTICLE 4BIDDING PROCEDURES4.1 PREPARATION OF BIDS

- 4.1.1 All bids must be prepared on the forms provided by the Architect and submitted in accordance with the Instructions to Bidders.

4.2 BID SECURITY

- 4.2.2 ANY BID NOT ACCOMPANIED BY A BID BOND, CERTIFIED OR CASHIER'S CHECK MAY BE REJECTED.

4.2.2.1 Either a CERTIFIED OR CASHIER'S CHECK on an open, solvent bank or a BID BOND issued by an approved bonding company payable to Troy School District in an amount equal to five percent (5%) of the bid shall be submitted with each proposal as liquidated damages if successful Bidder fails to sign contract and file necessary general insurance within fifteen (15) days after Notice of Award from Architect or Owner.

4.2.2.2 The bonding company on issuing a bid bond thereby obligates themselves to furnish a Performance, Labor and Material Bond within (10) ten days, in the full amount of the contract should subject Bidder be Low Bidder.

4.2.2.3 The bid deposit of all except the three (3) lowest responsible bidders will be returned within three (3) days after the opening of bids. The bid deposit of the three (3) lowest responsible bidder will be returned within 48 hours after the contract and their required bonds have been finally approved by the Owner.

- 4.2.3 (d) Contractor fails to provide required bonding and submit post-bid information required to determine contract award.

4.3 SUBMISSION OF BIDS

- 4.3.2.1 Proposals shall be addressed as follows:

Troy School District
1140 Rankin Street
Troy, MI 48083

- 4.3.3 A bid is invalid if it has not been deposited at the designated location prior to the time and date for receipt of any bids indicated in the Advertisement for Bids, or prior to any extension thereof issued to the bidders.

- 4.3.5 The contractor shall include in the bid and contract price all Sales Taxes and Use Taxes currently imposed by Legislative enactment and as administered by the Department of Revenue on the Bid Date. If the Contractor is not required to pay or bear the burden, or obtains a refund or drawback in whole or in part of any Sales or Use Tax, Interest or Penalty thereon, which was required to be and was deemed to have been included in the bid and contract price, the contract price shall be reduced by the amount thereof and the

SECTION 00 2113
INSTRUCTIONS TO BIDDERS

amount of such a reduction whether as a refund or otherwise, shall insure solely to the benefit of the Owner.

- 4.3.6 If required, a Bidder shall submit to the Architect a properly executed Contractor's qualification statement prior to receipt of proposals. Requested material may include the following:

Bidder's performance record, list of construction equipment, financial statement covering a period of two (2) years and any additional information required to satisfy the Owner that the Contractor is qualified to fulfill the Contract.

- 4.3.7 Within one (1) hour after the completion of the opening of the bids, the General Contractors who submitted the three lowest bids must submit a list of the names of each subcontractor who will provide labor or a portion of the work or improvement to the Contractor for which he will be paid an amount exceeding 5 percent of the prime Contractor's total bid or \$40,000 whichever is greater. If the General Contractor fails to submit such a list within the required time, his bid shall be deemed not responsive.

4.4 MODIFICATION OR WITHDRAWAL OF BID

- 4.4.1 Unless otherwise provided in any supplement to these Instructions to Bidders, no Bidder shall modify, withdraw or cancel his bid or any part thereof for sixty (60) days after the time designated for the receipt of bids in the Advertisement for Bids.

4.4.2.1 Prior to receipt of the bids, Addenda will be mailed or delivered to each person or firm recorded by the Architect as having received the bidding documents and will be available for inspection wherever the bidding documents are kept available for that purpose. Addenda issued after receipt of bids will be mailed or delivered only to the selected bidder.

ARTICLE 5

CONSIDERATION OF BIDS

5.2 REJECTION OF BIDS

- 5.2.1 The Bidder acknowledges the right of the Owner to reject any or all bids and to waive any informality or irregularity in any bid received. In addition, the Bidder recognizes the right of the Owner to reject a bid if the Bidder failed to furnish any required BID SECURITY, or to submit the data required by the Bidding Documents, or if the bid is in any way incomplete or irregular.

5.3 ACCEPTANCE OF BID (AWARD)

- 5.3.1 Emphasis is placed upon the fact that the Owner's decision regarding award of contracts will be influenced by such factors as quality, completion time, construction features, his best judgment of value, etc., and not entirely upon cost, and further, shall reserve the right to accept or reject any or all bids and to waive irregularities in proposals.
- 5.3.3 Contracts will be awarded based upon proposals received for one Bid Category only or for all work combined under a single proposal.

SECTION 00 2113
INSTRUCTIONS TO BIDDERS

- 5.3.4 Time is the essence of the Contract. It is understood that the work is to be carried through to completion with the utmost speed, consistent with good workmanship. The work of all trades shall be complete on days indicated except for minor replacement, correction or adjustment items which will not interfere with the complete operation and utilization of all parts of the contract work. The time of completion will be an important factor in determining award of the contract. Failure to comply with the construction document will result in rejection of the bid and/or cancellation of award.
- 5.3.5 Amounts entered in Proposal for Breakdowns or Unit Costs are subject to award, unless specifically noted otherwise.

ARTICLE 6POST-BID INFORMATION6.3 SUBMITTALS

- 6.3.1 Upon request by the Architect, the selected Bidder, within seven (7) days thereafter, shall submit the following:
- 6.3.1.1 A designation of the work to be performed by the Bidder with his own forces. Not to exceed a 10% markup for self performed/subcontracted work, material, and labor
- 6.3.1.2 A list of names of the Sub-Contractors or other persons or organizations (including those who are to furnish the materials or equipment fabricated to a special design) proposed for such portions of the work as may be designated, the names of the Sub-Contractors proposed for the principal portion of the work.
- 6.3.1.3 A statement of costs for each major item or work included in the bid or in detail as requested by the Architect.
- 6.3.2 The Bidder will be required to establish to the satisfaction of the Architect and Owner the reliability and responsibility of the proposed Sub-Contractors to furnish and perform the work described in the divisions of the Specifications pertaining to such proposed Sub-Contractor's respective trades.
- 6.3.3 Prior to the Award of Contract, the Architect will notify the Bidder in writing if either the Owner or the Architect, after due investigation, has reasonable and substantial objection to any person or organizations on such list and refuses in writing to accept such person or organization. The Bidder may, at this option, withdraw his bid without forfeiture of bid security, notwithstanding anything to the contrary contained in Paragraph 4.3.3. If the Bidder submits an acceptable substitute with an increase in his bid price to cover the difference in cost occasioned by such substitution the Owner may, at his discretion, accept the increased bid price or he may disqualify the Bidder.
- 6.3.4 Sub-Contractors, manufacturers, material suppliers and other persons and organizations proposed by the Bidder and accepted by the Owner and Architect must be used on the work for which they were proposed and accepted and shall not be changed except with written approval of the Owner or Architect. Failure to provide the information, as stated, will result in rejection of bid and/or cancellation of award (post-award).

SECTION 00 2113
INSTRUCTIONS TO BIDDERS

ARTICLE 7

PERFORMANCE BOND AND PAYMENT BOND

7.1 BOND REQUIREMENTS

7.1 The Owner shall require the Bidder to furnish bonds covering the faithful performance of the Contract and the payment of all obligations arising there under in such form and amount as the Owner may prescribe and with such sureties secured through the Bidder's usual sources as may be agreeable to the parties. Premiums shall be paid by the Bidder. The bonding companies are to be limited to those listed on U.S. Department of Treasury Circular 570. All surety bonds will be checked for validity before an Award will be made. If for any reason the bonds are not valid, the selected Contractor's Proposal will be null and void.

7.2 TIME OF DELIVERY AND FORM OF BONDS

7.2.1 The Bidder shall deliver the required bonds to the Owner not later than (10) ten days from the date of intent to enter the contract, or if the work is commenced prior thereto in response to a letter of intent or Notice of Award, the Bidder shall, prior to commencement of the work, submit evidence satisfactory to the Owner that such bonds will be issued.

7.2.2.1 All successful Bidders, except those noted above, shall be required to furnish Performance and Labor and Material Bonds in the following amounts:

1. Performance Bond in the full amount of the contract insuring the faithful performance of all provisions of the contract and the satisfactory completion of the work embraced there under within the time agreed upon, and the covering of guarantees herein provided for. This bond shall also insure the Owner against defective material or workmanship in any work under the contract for a period of one (1) year after completion and acceptance of the project.
2. Payment Bond in the full amount of the contract for the protection of sub-contractors, labor and material men

7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of his Power of Attorney indication the monetary limit of such power.

ARTICLE 9

DESCRIPTION OF WORK

PROPOSAL A: GENERAL CONSTRUCTION

1. All Necessary Permits, Fees, etc. to Complete Work
2. Excavation, Demolition and Removals
3. Remove Existing Asphalt
4. Adjust Existing Manhole Rim Elevations
5. Re-grade and Supplement Aggregate Base
6. Install Asphalt
7. Install Long Jump Sand
8. Clean-Up and Lawn Restoration

SECTION 00 2113
INSTRUCTIONS TO BIDDERS

PROPOSAL B: ALL-WEATHER SURFACE

1. All Necessary Permits, Fees, etc. to Complete Work
2. Synthetic Turf Protection
3. ½" All-Weather Track Surface
4. Track Markings
5. Clean-Up and Lawn Restoration

ARTICLE 10

WARRANTY AND INDEMNITY

10.1 WARRANTY

10.1 All work shall be guaranteed in writing against defects in workmanship and materials for one (1) year from issuance by the Board of Education's architect of the Certificate of Substantial Completion, or approval, acceptance and final payment by the Board of Education, whichever occurs first.

10.2 INDEMNITY

10.2 Contractor shall indemnify, defend and hold the Troy Public Schools harmless from any damages to property or personal injuries resulting from or reasonable attributable to any defects in supplies or services provided by contractor hereunder.

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SECTION 00 2300
SCHEDULE AND PHASING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Attention is directed to Division 00 Procurement and Contracting Requirements, and to Division 01 General Requirements which are hereby made a part of this section.

1.2 MILESTONE SCHEDULE

- A. The following are the milestone schedule dates for the listed work and will become part of the Contract Documents. A Master Construction Schedule will be developed after award of contract(s) with Contractor input.

MILESTONE ACTIVITY	SCHEDULED START	SCHEDULED COMPLETION
General Construction	June 9, 2014	June 30, 2014
All-Weather Surface	July 14, 2014	July 31, 2014

- B. Close coordination will be required between all construction trades to ensure construction operations can be completed within the scheduled time.
- C. It is expressly agreed that time is of the essence for the completion of Work and Contractor agrees to perform the Work within the designated time specified. Contractor is responsible for any damage and expenses arising or resulting from the failure of Contractor to perform the Work in accordance with the specifications and milestone schedule.

1.3 CONSTRUCTION SCHEDULE PROCESS

- A. Contractor shall commence work in the field within five (5) days upon receiving a "Notice to Proceed" from Foresite Design, Inc. Contractor shall be responsible for performing and completing the Work to the approval of the Owner and Foresite Design, inc.
- B. Contractor shall submit to Foresite Design, Inc. within fifteen (15) days upon Award of Contract, information including but not limited to scheduling, anticipated work activities and working days, shop drawings and shall also note issues relating to availability of materials.
- C. If Contractor delays progress for any reason other than delays specifically excused under the Contract Documents, Contractor shall take any and all necessary actions to expedite its Work and maintain the project schedule at no additional expense to the Owner or Foresite Design, Inc.
- D. Contractor agrees that it shall have no claim against the Owner or Foresite Design, Inc. for an increase in awarded contract price nor for a payment or allowance of any kind for damage, loss, or expense arising from delays, regardless of whether the delay is the basis for an extension of time. This provision includes claims from damages, loss, or expense arising from interruptions to necessary suspension of Contractor's Work to enable others to perform their work.

END OF SECTION 00 2300

SECTION 00 2300
SCHEDULE AND PHASING

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SUBMITTED BY: _____

Date: _____

TO: Troy School District
1140 Rankin Street
Troy, MI 48083
Attn: Ken Miller

I have carefully examined the bidding documents which include the Instructions to Bidders, all General Conditions and Supplemental Conditions, all drawings title "**Troy School District**" and all various addenda numbered _____ to _____ as prepared by FORESITE DESIGN, INC. which cover the general and architectural trades, as well as the premises and conditions affecting this work.

The undersigned proposes to furnish all labor, materials and equipment, all utilities, transportation services and taxes for the general construction as indicated under each proposal in accordance with said documents for the sum or sums of:

Within one (1) hour after the completion of the opening of the bids, the General Contractors who submitted the three lowest bids must submit a list of the names of each subcontractor who will provide labor or a portion of the work or improvement to the Contractor for which he will be paid an amount exceeding 5 percent of the prime Contractor's total bid or \$40,000 whichever is greater. If the General Contractor fails to submit such a list within the required time, his bid shall be deemed not responsive.

PROPOSAL A

PROPOSAL A: GENERAL CONSTRUCTION

SCOPE OF WORK

1. All Necessary Permits, Fees, etc. to Complete Work
2. Excavation, Demolition and Removals
3. Remove Existing Asphalt
4. Adjust Existing Manhole Rim Elevations
5. Re-grade and Supplement Aggregate Base
6. Install Asphalt
7. Install Long Jump Sand
8. Clean-Up and Lawn Restoration

PROPOSAL A: BASE BID \$ _____

_____ **Dollars**

If notified of acceptance of this proposal, the undersigned agrees to execute a contract for the above work, for the above stated compensation, in form of the standard form of the AIA.

The undersigned understands and agrees that time is of the essence and that all services, the installation of all work and materials, provided for in the contract must be fully completed on or before the following dates:

Proposal A: Site Work

Start- June 9, 2014
Complete- June 30, 2014

Proposal B: All-Weather Surface

Start- July 14, 2014
Complete- July 31, 2014

The Contractor shall be back-charged an observation fee of \$1000.00 per day for each day that the Contractor fails to meet the projected deadlines, weather permitting, and through no fault of the Owner, or Foresite Design, Inc. Observation Fee shall be paid by the Owner to Foresite Design, Inc.

In submitting this bid, it is understood that the right is reserved by the Owner to accept or reject any or all bids or to accept any bid or bids that will be in the opinion of the Owner such that it may be to their best interest. It is agreed that this bid or bids may not be withdrawn for a period of 60 days from the date of opening.

FIRM NAME : _____

ADDRESS: _____

SIGNED: _____

NAME: _____

TITLE: _____

TELEPHONE: _____

FAX: _____

EMAIL: _____

SUBMITTED BY: _____

Date: _____

TO: Troy School District
1400 Rankin Street
Troy, MI 48083
Attn: Ken Miller

I have carefully examined the bidding documents which include the Instructions to Bidders, all General Conditions and Supplemental Conditions, all drawings title "**Troy School District**" and all various addenda numbered _____ to _____ as prepared by FORESITE DESIGN, INC. which cover the general and architectural trades, as well as the premises and conditions affecting this work.

The undersigned proposes to furnish all labor, materials and equipment, all utilities, transportation services and taxes for the general construction as indicated under each proposal in accordance with said documents for the sum or sums of:

Within one (1) hour after the completion of the opening of the bids, the General Contractors who submitted the three lowest bids must submit a list of the names of each subcontractor who will provide labor or a portion of the work or improvement to the Contractor for which he will be paid an amount exceeding 5 percent of the prime Contractor's total bid or \$40,000 whichever is greater. If the General Contractor fails to submit such a list within the required time, his bid shall be deemed not responsive.

PROPOSAL B

PROPOSAL B: ALL-WEATHER SURFACE

SCOPE OF WORK

1. All Necessary Permits, Fees, etc. to Complete Work
2. Synthetic Turf Protection
3. ½" All-Weather Track Surface
4. Structural Spray Coatings
5. Track Markings
6. Clean-Up and Lawn Restoration

PROPOSAL B: BASE BID \$ _____

Dollars

If notified of acceptance of this proposal, the undersigned agrees to execute a contract for the above work, for the above stated compensation, in form of the standard form of the AIA.

The undersigned understands and agrees that time is of the essence and that all services, the installation of all work and materials, provided for in the contract must be fully completed on or before the following dates:

Proposal A: Site Work

Start-	June 9, 2014
Complete-	June 30, 2014

Proposal B: All-Weather Surface

Start-	July 14, 2014
Complete-	July 31, 2014

The Contractor shall be back-charged an observation fee of \$1000.00 per day for each day that the Contractor fails to meet the projected deadlines, weather permitting, and through no fault of the Owner, or Foresite Design, Inc. Observation Fee shall be paid by the Owner to Foresite Design, Inc.

In submitting this bid, it is understood that the right is reserved by the Owner to accept or reject any or all bids or to accept any bid or bids that will be in the opinion of the Owner such that it may be to their best interest. It is agreed that this bid or bids may not be withdrawn for a period of 60 days from the date of opening.

FIRM NAME : _____

ADDRESS: _____

SIGNED: _____

NAME: _____

TITLE: _____

TELEPHONE: _____

FAX: _____

EMAIL: _____

SECTION 00 4244
UNIT PRICE FORM

Each unit price requested shall include all charges for incidental expense, applicable taxes, insurance, labor, equipment, fittings, overhead and profit. These shall govern for net additions to the work and net deductions from the work.

Proposal A

Contract Pricing

- | | | |
|----|---------------------------|----------------|
| 1. | 1100 Series Asphalt | \$ _____ /TON |
| 2. | Lime Stone (21AA) | \$ _____ /TON |
| 3. | Adjust Drainage Structure | \$ _____ /UNIT |
| 4. | Long Jump Sand | \$ _____ /TON |

Proposal B

Contract Pricing

- | | | |
|----|----------------------|--------------|
| 1. | Red Structural Spray | \$ _____ /SY |
|----|----------------------|--------------|

If notified of acceptance of this proposal, the undersigned agrees to execute a contract for the above work, for the above stated compensation, in form of the standard form of the AIA.

The undersigned understands and agrees that time is of the essence and that all services, the installation of all work and materials, provided for in the contract must be fully completed on or before the following dates:

The Contractor shall be back-charged an observation fee of \$1000.00 per day for each day that the Contractor fails to meet the projected deadlines, weather permitting, and through no fault of the Owner, or Foresite Design, Inc. Observation Fee shall be paid by the Owner to Foresite Design, Inc.

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SECTION 00 4336
LIST OF SUBCONTRACTORS

TO BE COMPLETED BY BIDDER:

Project: Track Resurfacing
Proposal A – General Construction
Proposal B – All-Weather Surface

COMPLETE LIST OF SUBCONTRACTORS BIDDER WILL BE USING:

Company Name

Contact Name

Address

City, State Zip

Phone # Fax #

Company Name

Contact Name

Address

City, State Zip

Phone # Fax #

Company Name

Contact Name

Address

City, State Zip

Phone # Fax #

Company Name

Contact Name

Address

City, State Zip

Phone # Fax #

Company Name

Contact Name

Address

City, State Zip

Phone # Fax #

Company Name

Contact Name

Address

City, State Zip

Phone # Fax #

(USE ADDITIONAL SHEETS AS REQUIRED)

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SECTION 00 4343
PREVAILING WAGE RATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.

1.2 QUALITY ASSURANCE

- B. To verify compliance with prevailing wage rates, contractor shall provide certified payroll forms, copies or signed payroll checks (both front and back). Workers will be audited periodically to ensure compliance.

State of Michigan

WHPWRequest@michigan.gov

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

Project Number: 5

Oakland County

Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 1 of 30

<u>Classification</u>			Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision
Name	Description						
Asbestos & Lead Abatement Laborer							
Asbestos & Lead Abatement Laborer		MLDC	8/14/2013	\$39.75	\$53.04	\$66.32	H H H X X X D Y
4 ten hour days @ straight time allowed Monday-Saturday, must be consecutive calendar days							
Asbestos & Lead Abatement, Hazardous Material Handler							
Asbestos and Lead Abatement, Hazardous Material Handler		AS207	9/16/2013	\$39.75	\$53.08	\$66.40	H H H X X X D Y
4 ten hour days @ straight time allowed Monday-Saturday,							
Boilermaker							
Boilermaker		BO169	8/14/2009	\$54.70	\$81.08	\$107.45	H H H H H H D Y
Apprentice Rates:							
	1st 6 months			\$40.31	\$59.49	\$78.67	
	2nd 6 months			\$41.45	\$61.21	\$80.95	
	3rd 6 months			\$42.57	\$62.88	\$83.19	
	4th 6 months			\$43.69	\$64.57	\$85.43	
	5th 6 months			\$44.81	\$66.24	\$87.67	
	6th 6 months			\$49.53	\$73.40	\$97.26	
	7th 6 months			\$49.32	\$73.01	\$96.69	
	8th 6 months			\$51.58	\$76.40	\$101.21	

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

Project Number: 5

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 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 2 of 30

<u>Classification</u>	Last Updated	Straight Time and Hourly	a Double Half Time	Overtime Provision
Name Description				

Bricklayer

Bricklayer, stone mason, pointer, cleaner, caulker	BR1	9/3/2013	\$51.93	\$77.90	\$103.86	H H D H D D D D N
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Between October 1 and April 30, if lost time occurs due to inclement weather, Saturday may be worked as a make-up day @ straight time until forty hours are worked.

Apprentice Rates:

First 6 months	\$31.54	\$47.32	\$63.08
2nd 6 months	\$33.39	\$50.10	\$66.78
3rd 6 months	\$35.24	\$52.87	\$70.48
4th 6 months	\$37.09	\$55.64	\$74.18
5th 6 months	\$38.94	\$58.42	\$77.88
6th 6 months	\$40.79	\$61.20	\$81.58
7th 6 months	\$42.64	\$63.97	\$85.28
8th 6 months	\$44.49	\$66.74	\$88.98

Carpenter

Diver Four 10s allowed M-Sat; double time due when over 12 hours worked per day	CA 687 D	10/9/2013	\$63.30	\$91.30	\$119.29	X X H X X H H D Y
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Carpet and Resilient Floor Layer, (does not include installation of prefabricated formica & parquet flooring which is to be paid carpenter rate)	CA1045	11/6/2013	\$48.14	\$68.71	\$89.27	X X H X X X D Y
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Apprentice Rates:

1st 6 months	\$23.56	\$31.84	\$40.11
2nd 6 months	\$27.57	\$37.85	\$48.13
3rd 6 months	\$29.64	\$40.96	\$52.27
4th 6 months	\$31.69	\$44.03	\$56.37
5th 6 months	\$33.75	\$47.12	\$60.49
6th 6 months	\$35.80	\$50.20	\$64.59
7th 6 months	\$37.86	\$53.28	\$68.71
8th 6 months	\$39.91	\$56.36	\$72.81

Official Request #: 518
 Requestor: Troy School District
 Project Description: Athens & Troy High Schools - Renovate Track Facilities
 Project Number: 5
 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 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 3 of 30

Classification Name Description	Last Updated	Straight Time and Hourly	a Double Half Time	Overtime Provision
Carpenter-four 10s allowed Mon-Sat; double time due when over 12 hours worked per day	CA687Z1 10/1/2013	\$53.89	\$77.19	\$100.49 X X H X X H H D Y

Apprentice Rates:

1st year	\$32.92	\$45.74	\$58.55
3rd 6 months	\$35.26	\$49.25	\$63.23
4th 6 months	\$37.58	\$52.73	\$67.87
5th 6 months	\$39.92	\$56.23	\$72.55
6th 6 months	\$42.24	\$59.72	\$77.19
7th 6 months	\$44.57	\$63.22	\$81.85
8th 6 months	\$46.91	\$66.72	\$86.53

Piledriver Four 10s allowed Monday-Saturday; double time due when over 12 hours worked per day	CA687Z1P 10/1/2013	\$53.89	\$77.19	\$100.49 X X H X X H H D Y
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Apprentice Rates:

1st 6 months	\$32.92	\$45.74	\$58.55
2nd 6 months	\$37.58	\$52.73	\$67.87
3rd 6 months	\$42.24	\$59.72	\$77.19
4th 6 months	\$46.91	\$66.72	\$86.53

Subdivision of county

Cement Mason

Cement Mason	br1cm 9/3/2013	\$49.30	\$70.06	\$90.81 X X H H H H H D N
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Apprentice Rates:

1st 6 months	\$28.71	\$38.90	\$49.09
2nd 6 months	\$30.74	\$41.93	\$53.12
3rd 6 months	\$34.79	\$47.99	\$61.19
4th 6 months	\$38.85	\$54.05	\$69.23
5th 6 months	\$40.88	\$57.07	\$73.25
6th 6 months	\$44.93	\$63.11	\$81.30

Cement Mason	CE514 11/10/2011	\$46.30	\$64.89	\$83.48 H H D H H H H D N
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Apprentice Rates:

1st 6 months	\$26.77	\$36.07	\$45.36
2nd 6 months	\$28.68	\$38.91	\$49.13
3rd 6 months	\$32.50	\$44.59	\$56.66
4th 6 months	\$36.32	\$50.26	\$64.19
5th 6 months	\$38.24	\$53.11	\$67.98
6th 6 months	\$42.06	\$58.79	\$75.51

Official Request #: 518
 Requestor: Troy School District
 Project Description: Athens & Troy High Schools - Renovate Track Facilities
 Project Number: 5
 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 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 4 of 30

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

Drywall Taper	PT-22-D			\$43.16	\$56.14	\$69.11 H H D H D D D D Y
Four 10s allowed Monday-Thursday			7/3/2012			

Apprentice Rates:

First 3 months	\$30.19	\$36.68	\$43.17
Second 3 months	\$32.78	\$40.57	\$48.35
Second 6 months	\$35.37	\$44.45	\$53.53
Third 6 months	\$37.97	\$48.35	\$58.73
4th 6 months	\$39.27	\$50.30	\$61.33

Electrician

Road Way Electrical Work	EC-17			\$50.53	\$73.30	\$96.06 H H H H H H H D Y
Double time due after 16 hours on any calendar day and all hours Sunday.			8/6/2013			

Apprentice Rates:

1st 6 months	\$32.32	\$45.98	\$59.64
2nd 6 months	\$34.59	\$49.39	\$64.18
3rd 6 months	\$36.88	\$52.82	\$68.76
4th 6 months	\$39.15	\$56.23	\$73.30
5th 6 months	\$41.43	\$59.65	\$77.86
6th 6 months	\$45.97	\$66.46	\$86.94

Inside Wireman

	EC-58-IW			\$57.73	\$75.80	\$93.86 H H H H H H H D N
			6/26/2013			

Apprentice Rates:

0-1000 hours	\$36.05	\$43.27	\$50.50
1000-2000 hours	\$37.86	\$45.99	\$54.12
2000-3500 hours	\$39.67	\$48.71	\$57.74
3500-5000 hours	\$41.47	\$51.41	\$61.34
5000-6500 hours	\$45.08	\$56.82	\$68.56
6500-8000 hours	\$48.70	\$62.25	\$75.80

Sound and Communication Installer/Technician	EC-58-SC			\$36.12	\$48.25	\$60.37 H H H H H H H D Y
4 consecutive 10s allowed M-TH			9/16/2013			

Apprentice Rates:

Period 1	\$23.99	\$30.06	\$36.11
Period 2	\$25.21	\$31.88	\$38.55
Period 3	\$26.41	\$33.68	\$40.95
Period 4	\$27.63	\$35.51	\$43.39
Period 5	\$28.84	\$37.33	\$45.81
Period 6	\$30.06	\$39.16	\$48.25

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

Project Number: 5

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 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 5 of 30

Classification Name Description	Last Updated	Straight Time and Hourly	a Double Half Time	Overtime Provision
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Lineman/Technician outside utility and commercial power and high voltage pipe type cable work and electrical underground.	EC-876	11/18/2009	\$47.05	\$68.11	\$89.17	H H H H H H H D Y
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Four 10s allowed Monday-Thursday with Friday makeup or Tuesday-Friday with Monday makeup.

Apprentice Rates:

1st period	\$30.20	\$42.69	\$55.26
2nd period	\$32.32	\$46.02	\$59.70
3rd period	\$34.42	\$49.16	\$63.90
4th period	\$36.53	\$52.33	\$68.12
5th period	\$38.63	\$55.47	\$72.32
6th period	\$40.74	\$58.64	\$76.54
7th period	\$42.84	\$61.79	\$80.74

Subdivision of county Holly Township only

Elevator Constructor

Elevator Constructor	EL 36	8/7/2007	\$56.46	\$94.99	D D D D D D D D Y
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Apprentice Rates:

1st Year Apprentice	\$37.74	\$58.93
2nd Year Apprentice	\$41.90	\$66.94
3rd Year Apprentice	\$43.98	\$70.95
4th Year Apprentice	\$48.14	\$78.96

Glazier

Glazier	GL-357	7/3/2012	\$46.21	\$64.51	\$82.80	H H H H H H H D Y
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If a four 10 hour day workweek is scheduled, four 10s must be consecutive, M-F.

Apprentice Rates:

1st 6 months	\$31.63	\$42.64	\$53.64
2nd 6 months	\$33.09	\$44.83	\$56.56
3rd 6 months	\$36.00	\$49.19	\$62.38
4th 6 months	\$37.46	\$51.39	\$65.30
5th 6 months	\$38.92	\$53.57	\$68.22
6th 6 months	\$40.38	\$55.77	\$71.14
7th 6 months	\$41.84	\$57.95	\$74.06
8th 6 months	\$44.75	\$62.32	\$79.88

Official Request #: 518
 Requestor: Troy School District
 Project Description: Athens & Troy High Schools - Renovate Track Facilities
 Project Number: 5
 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 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 6 of 30

<u>Classification</u>	Last Updated	Straight Time and Hourly	a Double Half Time	Overtime Provision
Name Description				

Heat and Frost Insulator

Spray Insulation	AS25S	3/5/2007	\$20.14	\$29.14	H H H H H H H N
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Heat and Frost Insulator and Asbestos Worker

Heat and Frost Insulators and Asbestos Workers Four 10s must be worked for a minimum of 2 weeks consecutively, Monday thru Thursday. All hours worked in excess of 10 will be paid at double time. All hours worked on the fifth day, Monday thru Friday will paid at time and one-half.	AS25	1/29/2014	\$60.25	\$76.00	\$91.74 H H H H H H D Y
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Apprentice Rates:

1st Year	\$46.08	\$54.74	\$63.40
2nd Year	\$49.23	\$59.46	\$69.70
3rd Year	\$50.80	\$61.82	\$72.84
4th Year	\$53.95	\$66.54	\$79.14

Ironworker

Fence, Sound Barrier & Guardrail erection/installation and Exterior Signage work Four ten hour work days may be worked during Monday-Saturday.	IR-25-F1	4/2/2013	\$33.15	\$45.15	\$57.15 X X H X X X H D Y
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Apprentice Rates:

60% Level	\$22.75	\$29.95	\$37.15
65% Level	\$24.05	\$31.85	\$39.65
70% Level	\$25.36	\$33.76	\$42.16
75% Level	\$26.65	\$35.65	\$44.65
80% Level	\$27.95	\$37.55	\$47.15
85% Level	\$29.25	\$39.45	\$49.65

Siding, Glazing, Curtain Wall 4 tens may be worked Monday thru Thursday @ straight time.	IR-25-GZ2	4/11/2013	\$44.11	\$55.52	\$66.93 X X H H H H D D Y
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Apprentice Rates:

Level 1	\$27.18	\$33.53	\$39.88
Level 2	\$29.29	\$36.27	\$43.25
Level 3	\$31.41	\$39.03	\$46.64
Level 4	\$33.53	\$41.78	\$50.02
Level 5	\$35.64	\$44.53	\$53.40
Level 6	\$37.76	\$47.28	\$56.78

Official Request #: 518
 Requestor: Troy School District
 Project Description: Athens & Troy High Schools - Renovate Track Facilities
 Project Number: 5
 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 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 7 of 30

Classification Name Description	Last Updated	Straight Time and Hourly Half	a Double Time	Overtime Provision
Pre-engineered Metal Work	IR-25-PE-Z1 6/3/2013	\$44.59	\$54.71	\$64.83 X X H X X X D Y
Apprentice Rates:				
1st Year		\$25.46	\$30.77	\$36.08
3rd 6 month period		\$27.58	\$33.64	\$39.70
4th 6 month period		\$29.71	\$36.53	\$43.35
5th 6 month period		\$31.83	\$39.40	\$46.97
6th 6 month period		\$33.96	\$42.29	\$50.61
Reinforced Iron Work	IR-25-RF 6/25/2013	\$54.61	\$81.78	\$108.95 H H D H D D D N
Apprentice Rates:				
Level 1		\$34.66	\$51.56	\$68.45
Level 2		\$37.11	\$55.23	\$73.35
Level 3		\$39.54	\$58.70	\$77.84
Level 4		\$42.16	\$62.80	\$83.45
Level 5		\$44.76	\$66.71	\$88.65
Level 6		\$47.38	\$70.64	\$93.89
Rigging Work	IR-25-RIG 6/25/2013	\$60.28	\$90.26	\$120.24 H H H H H H D N
Apprentice Rates:				
Level 1 & 2		\$34.93	\$52.39	\$69.86
Level 3		\$37.80	\$56.71	\$75.60
Level 4		\$40.66	\$60.99	\$81.32
Level 5		\$43.53	\$65.29	\$87.06
Level 6		\$46.41	\$69.62	\$92.82
Decking 4 tens may be worked Monday thru Thursday @ straight time. If bad weather, Friday may be a make up day. If holiday celebrated on a Monday, 4 10s may be worked Tuesday thru Friday. Work in excess of 12 hours per day must be paid @ double time.	IR-25-SD 6/25/2013	\$52.24	\$78.08	\$103.92 X X H H H H D Y

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

Project Number: 5

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 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 8 of 30

Classification Name Description	Last Updated	Straight Time and Hourly Half	a Double Time	Overtime Provision
Structural, ornamental, conveyor, welder and pre-cast 4 tens may be worked Monday thru Thursday @ straight time. If bad weather, Friday may be a make up day. If holiday celebrated on a Monday, 4 10s may be worked Tuesday thru Friday. Work in excess of 12 hours per day must be paid @ double time.	IR-25-STR 6/25/2013	\$60.41	\$90.34	\$120.26 H H H H H H D D Y

Apprentice Rates:

Levels 1 & 2	\$35.06	\$52.64	\$69.98
Level 3	\$37.89	\$56.52	\$75.14
Level 4	\$40.71	\$60.74	\$80.78
Level 5	\$43.54	\$65.37	\$86.94
Level 6	\$46.37	\$69.24	\$92.10
Level 7	\$49.19	\$73.47	\$97.74
Level 8	\$52.02	\$77.71	\$103.40

Industrial Door erection & construction	IR-25-STR-D 6/27/2013	\$40.97	\$61.13	\$81.29 H H H H H H D D Y
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Laborer

Construction Laborer, Demolition Laborer, Mason Tender, Carpenter Tender, Drywall Handler, Concrete Laborer, Cement Finisher tender, concrete chute and concrete Bucket Handler, Concrete Laborer	L1076-A-A 6/13/2013	\$43.54	\$61.94	\$80.33 H H H H H H D Y
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If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.

Apprentice Rates:

0-1,000 work hours	\$37.60	\$53.03	\$68.45
1,001-2,000 work hours	\$38.79	\$54.81	\$70.83
2,001-3,000 work hours	\$39.98	\$56.60	\$73.21
3,001-4,000 work hours	\$42.35	\$60.15	\$77.95

Official Request #: 518
 Requestor: Troy School District
 Project Description: Athens & Troy High Schools - Renovate Track Facilities
 Project Number: 5
 County: Oakland

Official Rate Schedule
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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 9 of 30

<u>Classification</u>	Last	Straight Time and		a Double	Overtime
Name Description	Updated	Hourly	Half	Time	Provision
Signal man (on sewer & caisson work); air,electric or gasoline tool operator (including concrete vibrator operator,acetylene torch & air hammer operator); scaffold builder, caisson worker	L1076-A-B 6/13/2013	\$43.80	\$62.33	\$80.85	H H H H H H D Y

If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.

Lansing Burner, Blaster & Powder Man	L1076-A-C 6/13/2013	\$44.29	\$63.06	\$81.83	H H H H H H D Y
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If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.

Furnance battery heater tender, burning bar & oxy-acetylene gun	L1076-A-D 6/13/2013	\$44.04	\$62.69	\$81.33	H H H H H H D Y
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If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.

Cleaner/ sweeper laborer, furniture laborer	L1076-A-E 6/13/2013	\$38.09	\$53.76	\$69.43	H H H H H H D Y
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If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

Project Number: 5

County: Oakland

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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 10 of 30

<u>Classification</u>	Last Updated	Straight Time and Hourly	a Double Half Time	Overtime Provision
Name Description				
Expediter man, topman and/or bottom man (blast furnace work or battery work)	L1076-A-F 6/13/2013	\$44.79	\$63.81	\$82.83 H H H H H H D Y

If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.

Plasterer Tender, Plastering Machine Operator	LPT-1 10/25/2013	\$43.54	\$61.94	\$80.33 X X H H H H H D Y
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If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays. Work may be scheduled up to 10 hours per Mon-Fri for the purpose of reaching 40 hours @ straight time. Make up days may also include 8 hours of work on Saturdays @ straight time.

Apprentice Rates:

0 - 1,000 hours	\$37.60	\$53.03	\$68.45
1,001 - 2,000 hours	\$38.79	\$54.81	\$70.83
2,001 - 3,000 hours	\$39.98	\$56.60	\$73.21
3,001 - 4,000 hours	\$42.35	\$60.15	\$77.95

Laborer - Hazardous

Class A Laborer - performing work in conjunction with site preparation and other preliminary work prior to actual removal, handling, or containment of hazardous waste substances not requiring use of personal protective equipment required by state or federal regulations; or a laborer performing work in conjunction with the removal, handling, or containment of hazardous waste substances when used of personal protective equipment level "D" is required.	LHAZ-Z2-A 11/1/2013	\$43.54	\$61.94	\$80.33 H H H H H H D Y
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Apprentice Rates:

0-1,000 work hours	\$37.60	\$53.03	\$68.45
1,001-2,000 work hours	\$38.79	\$54.81	\$70.83
2,001-3,000 work hours	\$39.98	\$56.60	\$73.21
3,001-4,000 work hours	\$42.35	\$60.15	\$77.95

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

Project Number: 5

County: Oakland

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Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 11 of 30

<u>Classification</u>	Last	Straight Time and		a Double	Overtime
Name Description	Updated	Hourly	Half	Time	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 11/1/2013	\$44.54	\$63.44	\$82.33	H H H H H H H D Y

Apprentice Rates:

0-1,000 work hours	\$38.36	\$54.17	\$69.97
1,001-2,000 work hours	\$39.59	\$56.01	\$72.43
2,001-3,000 work hours	\$40.83	\$57.87	\$74.91
3,001-4,000 work hours	\$43.30	\$61.58	\$79.85

Laborer Underground - Tunnel, Shaft & Caisson

Class I - Tunnel, shaft and caisson laborer, dump man, shanty man, hog house tender, testing man (on gas), and watchman.	LAUCT-Z1-1 9/6/2013	\$37.87	\$48.66	\$59.44	X X X X X X D Y
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Apprentice Rates:

0-1,000 work hours	\$33.05	\$41.43	\$49.80
1,001-2,000 work hours	\$34.02	\$42.88	\$51.74
2,001-3,000 work hours	\$34.98	\$44.32	\$53.66
3,001-4,000 work hours	\$36.91	\$47.21	\$57.52

Class II - Manhole, headwall, catch basin builder, bricklayer tender, mortar man, material mixer, fence erector, and guard rail builder.	LAUCT-Z1-2 9/6/2013	\$37.98	\$48.82	\$59.66	X X X X X X D Y
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Apprentice Rates:

0-1,000 work hours	\$33.14	\$41.56	\$49.98
1,001-2,000 work hours	\$34.10	\$43.00	\$51.90
2,001-3,000 work hours	\$35.07	\$44.45	\$53.84
3,001-4,000 work hours	\$37.01	\$47.37	\$57.72

Official Request #: 518

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Page 12 of 30

<u>Classification</u>	Last Updated	Straight Time and	a Double	Overtime
Name Description	Description	Hourly	Half Time	Provision
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 9/6/2013	\$38.04	\$48.91	\$59.78 X X X X X X D Y

Apprentice Rates:

0-1,000 work hours	\$33.18	\$41.62	\$50.06
1,001-2,000 work hours	\$34.15	\$43.07	\$52.00
2,001-3,000 work hours	\$35.12	\$44.53	\$53.94
3,001-4,000 work hours	\$37.07	\$47.45	\$57.84

Class IV - Tunnel, shaft and caisson mucker, bracer man, liner plate man, long haul dinky driver and well point man.	LAUCT-Z1-4 9/6/2013	\$38.22	\$49.18	\$60.14 X X X X X X D Y
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Apprentice Rates:

0-1,000 work hours	\$33.32	\$41.83	\$50.34
1,001-2,000 work hours	\$34.30	\$43.30	\$52.30
2,001-3,000 work hours	\$35.28	\$44.77	\$54.26
3,001-4,000 work hours	\$37.24	\$47.71	\$58.18

Class V - Tunnel, shaft and caisson miner, drill runner, keyboard operator, power knife operator, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars)	LAUCT-Z1-5 9/6/2013	\$38.47	\$49.56	\$60.64 X X X X X X D Y
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Apprentice Rates:

0-1,000 work hours	\$33.50	\$42.10	\$50.70
1,001-2,000 work hours	\$34.50	\$43.60	\$52.70
2,001-3,000 work hours	\$35.49	\$45.09	\$54.68
3,001-4,000 work hours	\$37.48	\$48.07	\$58.66

Class VI - Dynamite man and powder man.	LAUCT-Z1-6 9/6/2013	\$38.80	\$50.05	\$61.30 X X X X X X D Y
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Apprentice Rates:

0-1,000 work hours	\$33.75	\$42.47	\$51.20
1,001-2,000 work hours	\$34.76	\$43.99	\$53.22
2,001-3,000 work hours	\$35.77	\$45.51	\$55.24
3,001-4,000 work hours	\$37.79	\$48.53	\$59.28

Official Request #: 518

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County: Oakland

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Page 13 of 30

<u>Classification</u>	Last Updated	Straight Time and Hourly	a Double Time Half	Overtime Provision
Name Description				
Class VII - Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes and flagstones.	LAUCT-Z1-7 9/6/2013	\$32.08	\$39.97	\$47.86 X X X X X X D Y

Apprentice Rates:

0-1,000 work hours	\$28.71	\$34.91	\$41.12
1,001-2,000 work hours	\$29.38	\$35.92	\$42.46
2,001-3,000 work hours	\$30.06	\$36.94	\$43.82
3,001-4,000 work hours	\$31.41	\$38.97	\$46.52

Landscape Laborer

Landscape Specialist includes air, gas, and diesel equipment operator, skidsteer (or equivalent), lawn sprinkler installer on landscaping work where seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintenance of landscape projects occurs.	LLAN-Z1-A 7/5/2013	\$28.18	\$38.91	\$49.64 X X H X X X H D Y
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Sundays paid at time & one half. Holidays paid at double time.

Skilled Landscape Laborer: small power tool operator, lawn sprinkler installers' tender, material mover, truck driver when seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintaining of landscape projects occurs	LLAN-Z1-B 7/5/2013	\$23.96	\$32.58	\$41.20 X X H X X X H D Y
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Sundays paid at time & one half. Holidays paid at double time.

Marble Finisher

Marble Finisher A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.	BR1-MF 9/5/2013	\$42.94	\$53.65	\$64.35 H H D H D D D D Y
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Apprentice Rates:

Level 1	\$18.80	\$24.77	\$30.73
Level 2	\$19.99	\$26.55	\$33.11
Level 3	\$26.67	\$33.52	\$40.36
Level 4	\$28.12	\$35.69	\$43.26
Level 5	\$29.62	\$37.37	\$45.13
Level 6	\$31.22	\$39.37	\$47.51
Level 7	\$32.89	\$41.08	\$49.26
Level 8	\$34.36	\$42.95	\$51.54

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

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Page 14 of 30

<u>Classification</u>	Last	Straight Time and	a Double	Overtime
Name Description	Updated	Hourly Half	Time	Provision

Marble Mason

Marble Mason	BR1-MM		\$49.67	\$63.74	\$77.81	H H D H D D D D Y
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A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.

Apprentice Rates:

Level 1		\$24.83	\$32.24	\$39.65
Level 2		\$27.85	\$36.04	\$44.23
Level 3		\$33.00	\$41.45	\$49.90
Level 4		\$35.70	\$45.09	\$54.49
Level 5		\$37.94	\$47.57	\$57.21
Level 6		\$41.55	\$52.91	\$64.27
Level 7		\$42.21	\$53.72	\$65.22
Level 8		\$43.13	\$55.10	\$67.06

Operating Engineer

Crane with boom & jib or leads 120' or longer	EN-324-A120		\$56.01	\$73.30	\$90.58	X X H H D D D D Y
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Work in excess of 12 per day shall be paid at double time.

Crane with boom & jib or leads 140' or longer	EN-324-A140		\$56.83	\$74.53	\$92.22	X X H H D D D D Y
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Work in excess of 12 per day shall be paid at double time.

Crane with boom & jib or leads 220' or longer	EN-324-A220		\$57.13	\$74.98	\$92.82	X X H H D D D D Y
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Work in excess of 12 per day shall be paid at double time.

Crane with boom & jib or leads 300' or longer	EN-324-A300		\$58.63	\$77.23	\$95.82	X X H H D D D D Y
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Work in excess of 12 per day shall be paid at double time.

Crane with boom & jib or leads 400' or longer	EN-324-A400		\$60.13	\$79.48	\$98.82	X X H H D D D D Y
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Work in excess of 12 per day shall be paid at double time.

Compressor or welding machine	EN-324-CW		\$45.16	\$57.02	\$68.88	X X H H D D D D Y
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Work in excess of 12 per day shall be paid at double time.

Forklift, lull, extend-a-boom forklift	EN-324-FL		\$52.47	\$67.99	\$83.50	X X H H D D D D Y
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Work in excess of 12 per day shall be paid at double time.

Official Request #: 518
 Requestor: Troy School District
 Project Description: Athens & Troy High Schools - Renovate Track Facilities
 Project Number: 5
 County: Oakland

Official Rate Schedule
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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

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Page 15 of 30

<u>Classification</u> Name Description	Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision
Fireman or oiler Work in excess of 12 per day shall be paid at double time.	EN-324-FO 8/2/2013	\$44.13	\$55.48	\$66.82	X X H H D D D Y
Regular crane, job mechanic, concrete pump with boom Work in excess of 12 per day shall be paid at double time.	EN-324-RC 8/2/2013	\$55.15	\$72.01	\$88.86	X X H H D D D Y
Regular engineer, hydro-excavator, remote controlled concrete breaker Work in excess of 12 per day shall be paid at double time.	EN-324-RE 8/2/2013	\$54.18	\$70.55	\$86.92	X X H H D D D Y

Apprentice Rates:

0-999 hours	\$43.51	\$54.98	\$66.43
1,000-1,999 hours	\$45.14	\$57.41	\$69.69
2,000-2,999 hours	\$46.79	\$59.89	\$72.99
3,000-3,999 hours	\$48.42	\$62.34	\$76.25
4,000-4,999 hours	\$50.05	\$64.78	\$79.51
5,000-5,999 hours	\$51.70	\$67.26	\$82.81

Operating Engineer - DIVER

Diver/Wet Tender/Tender/Rov Pilot/Rov Tender	GLF D 4/2/2014	\$52.80	\$79.20	\$105.60	H H H H H H D N
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Operating Engineer - Marine Construction

Diver/Wet Tender, Engineer (hydraulic dredge)	GLF-1 2/12/2014	\$65.00	\$84.85	\$104.70	X X H H H H D Y
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Holiday pay= \$124.55 per hour, wages & fringes

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

Crane/Backhoe Operator, 70 ton or over Tug Operator, Mechanic/Welder, Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender	GLF-2 2/12/2014	\$63.50	\$82.60	\$101.70	X X H H H H D Y
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Holiday pay = \$120.80 per hour, wages & fringes

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

Friction, Lattice Boom or Crane License Certification	GLF-2B 2/12/2014	\$64.50	\$84.10	\$103.70	X X H H H H D Y
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Holiday pay = \$123.30

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

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

Project Number: 5

County: Statewide

Official Rate Schedule

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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 16 of 30

<u>Classification</u>	Name	Description	Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision
	Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs or more), Tug/Launch Operator, Loader, Dozer on Barge, Deck Machinery	GLF-3	2/12/2014	\$59.30	\$76.30	\$93.30	X X H H H H H D Y

Holiday pay = \$110.30 per hour, wages & fringes

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

	Deck Equipment Operator, (Machineryman/Fireman), (4 equipment units or more), Off Road Trucks, Deck Hand, Tug Engineer, & Crane Maintenance 50 ton capacity and under or Backhoe 115,000 lbs or less, Assistant Tug Operator	GLF-4	2/12/2014	\$53.60	\$67.75	\$81.90	X X H H H H H D Y
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Holiday pay = \$96.05 per hour, wages & fringes

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

Operating Engineer Hazardous Waste Class I

	Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye protection.	EN-324-HWCI-Z1A	1/20/2012	\$51.84	\$67.86	\$83.87	H H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Apprentice Rates:

1st 6 months	\$41.63	\$52.85	\$64.05
2nd 6 months	\$43.23	\$55.25	\$67.25
3rd 6 months	\$44.83	\$57.64	\$70.45
4th 6 months	\$46.43	\$60.04	\$73.65
5th 6 months	\$48.03	\$62.44	\$76.85
6th 6 months	\$49.64	\$64.86	\$80.07

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

Project Number: 5

County: Oakland

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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

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Page 17 of 30

<u>Classification</u>	Last Updated	Straight Time and Hourly	a Double Half Time	Overtime Provision
Name Description				
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 1/20/2012	\$50.89	\$66.43	\$81.97 H H H H H H D Y

Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Apprentice Rates:

1st 6 months	\$40.97	\$51.85	\$62.73
2nd 6 months	\$42.52	\$54.17	\$65.83
3rd 6 months	\$44.07	\$56.50	\$68.93
4th 6 months	\$45.64	\$58.86	\$72.07
5th 6 months	\$47.19	\$61.19	\$75.17
6th 6 months	\$48.74	\$63.51	\$78.27

Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWCI-Z1D 1/20/2012	\$49.59	\$64.48	\$79.37 H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Apprentice Rates:

1st 6 months	\$40.06	\$50.49	\$60.91
2nd 6 months	\$41.54	\$52.71	\$63.87
3rd 6 months	\$43.04	\$54.96	\$66.87
4th 6 months	\$44.53	\$57.19	\$69.85
5th 6 months	\$46.02	\$59.42	\$72.83
6th 6 months	\$47.50	\$61.65	\$75.79

Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWCI-Z1DCL 1/20/2012	\$49.34	\$64.11	\$78.87 H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Apprentice Rates:

1st 6 months	\$39.89	\$50.23	\$60.57
2nd 6 months	\$41.36	\$52.44	\$63.51
3rd 6 months	\$42.83	\$54.64	\$66.45
4th 6 months	\$44.31	\$56.86	\$69.41
5th 6 months	\$45.79	\$59.08	\$72.37
6th 6 months	\$47.27	\$61.30	\$75.33

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County: Oakland

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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 18 of 30

<u>Classification</u>	Last Updated	Straight Time and Hourly	a Double Half Time	Overtime Provision
Name Description				
Operating Engineer Hazardous Waste Class II				
Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye protection.	EN-324-HWCII-Z1A 1/20/2012	\$47.61	\$61.51	\$75.41 H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.				
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 1/20/2012	\$46.66	\$60.09	\$73.51 H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.				
Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWCII-Z1D 1/20/2012	\$45.36	\$58.14	\$70.91 H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.				
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWCII-Z1DCL 1/20/2012	\$45.11	\$57.76	\$70.41 H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.				

Operating Engineer Hazardous Waste Crane w/ Boom & Jib leads 140' or longer

Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye protection.	EN-324-HW140-Z1A 1/20/2012	\$54.49	\$71.83	\$89.17 H H H H H H D Y
Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.				

Official Request #: 518
 Requestor: Troy School District
 Project Description: Athens & Troy High Schools - Renovate Track Facilities
 Project Number: 5
 County: Oakland

Official Rate Schedule
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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 19 of 30

Classification Name Description	Last Updated	Straight Time and Hourly Half	a Double Time	Overtime Provision
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 1/20/2012	\$53.54	\$70.41	\$87.27 H H H H H H D Y

Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Level D Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW140-Z1D 1/20/2012	\$52.24	\$68.46	\$84.67 H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW140-Z1DCL 1/20/2012	\$51.99	\$68.08	\$84.17 H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Operating Engineer Hazardous Waste Crane w/ Boom & Jib leads 220' or longer

Level A - Fully encapsulating chemical resistant suit w/ pressure demand, full face piece SCBA or pressure demand supplied air respirator w/ escape SCBA. The highest available level of respiratory, skin and eye protection.	EN-324-HW220-Z1A 1/20/2012	\$54.79	\$72.28	\$89.77 H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

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 1/20/2012	\$53.84	\$70.86	\$87.87 H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

Level D Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW220-Z1D 1/20/2012	\$52.54	\$68.91	\$85.27 H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

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Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 20 of 30

Classification Name Description	Last Updated	Straight Time and Hourly	Half	a Double Time	Overtime Provision
Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HW220-Z1DCL 1/20/2012	\$52.29	\$68.53	\$84.77	H H H H H H D Y

Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

**Operating Engineer Hazardous Waste Regular Crane, Job
Mechanic, Dragline Operator, Boom Truck Operator, Power Shovel
Operator and Concrete Pump with boom**

Level D When Capping Landfill Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWRC-Z1DCL 1/20/2012	\$49.69	\$64.63	\$79.57	H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

**Operating Engineer Hazardous Waste Regular Crane, Job
Mechanic, Dragline Operator, Boom Truck Operator, Power Shovel
Operator and Concrete Pump with Boom Operator**

Level D - Coveralls, safety boots, glasses or chemical splash goggles and hard hats.	EN-324-HWRC-Z1D 1/20/2012	\$50.56	\$65.94	\$81.31	H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

**Operating Engineer Hazardous Waste Regular Crane, Job
Mechanic, Dragline Operator, Boom Truck Operator, Power Shovel
Operator and Concrete Pump with booms**

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 1/20/2012	\$51.86	\$67.89	\$83.91	H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

**Operating Engineer Hazardous Waste Regular Crane, Job
Mechanic, Dragline Operator, Boom Truck Operator, Power Shovel
Operators and Concrete Pump with booms**

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 1/20/2012	\$52.81	\$69.31	\$85.81	H H H H H H D Y
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Four 10 hour days may be worked Monday-Thursday with Friday as a straight-time make up day.

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Project Description: Athens & Troy High Schools - Renovate Track Facilities
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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 21 of 30

<u>Classification</u>										
Name	Description		Last Updated		Straight Hourly	Time and Half	a Double Time		Overtime Provision	
Operating Engineer Steel Work										
Forklift, 1 Drum Hoist		EN-324-ef	6/17/2013		\$57.11	\$75.12	\$93.13	H H D	H H H D	D D Y
Crane w/ 120' boom or longer		EN-324-SW120	6/14/2013		\$59.81	\$79.17	\$98.53	H H D	H H H D	D D Y
Crane w/ 120' boom or longer w/ Oiler		EN-324-SW120-O	6/14/2013		\$60.81	\$80.67	\$100.53	H H D	H H H D	D D Y
Crane w/ 140' boom or longer		EN-324-SW140	6/14/2013		\$60.99	\$80.94	\$100.89	H H D	H H H D	D D Y
Crane w/ 140' boom or longer W/ Oiler		EN-324-SW140-O	6/14/2013		\$61.99	\$82.44	\$102.89	H H D	H H H D	D D Y
Boom & Jib 220' or longer		EN-324-SW220	6/14/2013		\$61.26	\$81.35	\$101.43	H H D	H H H D	D D Y
Crane w/ 220' boom or longer w/ Oiler		EN-324-SW220-O	6/14/2013		\$62.26	\$82.85	\$103.43	H H D	H H H D	D D Y
Boom & Jib 300' or longer		EN-324-SW300	6/14/2013		\$62.76	\$83.60	\$104.43	H H D	H H H D	D D Y
Crane w/ 300' boom or longer w/ Oiler		EN-324-SW300-O	6/14/2013		\$63.76	\$85.10	\$106.43	H H D	H H H D	D D Y
Boom & Jib 400' or longer		EN-324-SW400	6/14/2013		\$64.26	\$85.85	\$107.43	H H D	H H H D	D D Y
Crane w/ 400' boom or longer w/ Oiler		EN-324-SW400-O	6/14/2013		\$65.26	\$87.35	\$109.43	H H D	H H H D	D D Y
Crane Operator, Job Mechanic, 3 Drum Hoist & Excavator		EN-324-SWCO	6/17/2013		\$59.45	\$78.63	\$97.81	H H D	H H H D	D D Y

Apprentice Rates:

0-999 hours	\$47.09	\$60.51	\$73.94
1,000-1,999 hours	\$49.01	\$63.40	\$77.78
2,000-2,999 hours	\$50.93	\$66.28	\$81.62
3,000-3,999 hours	\$52.85	\$69.16	\$85.46
4,000-4,999 hours	\$54.76	\$72.02	\$89.28
5,000 hours	\$56.68	\$74.91	\$93.12

Official Request #: 518

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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

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Page 22 of 30

Classification Name Description	Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision
Crane w/ Oiler	EN-324-SWCO-O 6/17/2013	\$60.45	\$80.13	\$99.81	H H D H H H D D Y
Compressor or Welder Operator	EN-324-SWCW 6/17/2013	\$52.00	\$67.46	\$82.91	H H D H H H D D Y
Hoisting Operator, 2 Drum Hoist, & Rubber Tire Backhoe	EN-324-SWHO 6/17/2013	\$58.81	\$77.67	\$96.53	H H D H H H D D Y
Oiler	EN-324-SWO 6/17/2013	\$50.59	\$65.34	\$80.09	H H D H H H D D Y
Tower Crane & Derrick where work is 50' or more above first level	EN-324-SWTD50 6/14/2013	\$60.54	\$80.27	\$99.99	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 6/14/2013	\$61.54	\$81.77	\$101.99	H H D H H H D D Y
Operating Engineer Underground					
Class I Equipment	EN-324A1-UC1 9/13/2013	\$50.34	\$65.33	\$80.32	H H H H H H D Y
Apprentice Rates:					
	0-999 hours	\$40.75	\$51.25	\$61.74	
	1,000-1,999 hours	\$42.24	\$53.48	\$64.72	
	2,000-2,999 hours	\$43.75	\$55.75	\$67.74	
	3,000-3,999 hours	\$45.24	\$57.98	\$70.72	
	4,000-4,999 hours	\$46.74	\$60.23	\$73.72	
	5,000-5,999 hours	\$48.25	\$62.50	\$76.74	
Class II Equipment	EN-324A1-UC2 9/13/2013	\$45.61	\$58.24	\$70.86	H H H H H H D Y
Class III Equipment	EN-324A1-UC3 9/13/2013	\$44.88	\$57.14	\$69.40	H H H H H H D Y
Class IV Equipment	EN-324A1-UC4 9/13/2013	\$44.31	\$56.29	\$68.26	H H H H H H D Y
Master Mechanic	EN-324A1-UMM 9/13/2013	\$50.59	\$65.71	\$80.82	H H H H H H D Y

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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 23 of 30

<u>Classification</u>	Last	Straight Time and	a Double	Overtime
Name Description	Updated	Hourly	Half	Provision

Painter

Painter (8 hours of repaint work performed on Sunday shall be paid time & one half rate)	PT-22-P 6/18/2012	\$41.32	\$53.78	\$66.23	H H D H D D D D Y
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Four 10s allowed Monday-Thursday with Friday makeup day if job down due to weather, holiday or other conditions beyond the control of the employer.

Apprentice Rates:

First 6 months	\$28.87	\$35.10	\$41.33
Second 6 months	\$32.60	\$40.69	\$48.79
Third 6 months	\$33.85	\$42.57	\$51.29
Fourth 6 months	\$35.09	\$44.43	\$53.77
Fifth 6 months	\$36.34	\$46.31	\$56.27
Final 6 months	\$37.58	\$48.17	\$58.75

Pipe and Manhole Rehab

General Laborer for rehab work or normal cleaning and cctv work-top man, scaffold man, CCTV assistant, jetter-vac assistant	TM247 10/15/2012	\$27.20	\$36.70	H H H H H H H H N
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Tap cutter/CCTV Tech/Grout Equipment Operator: unit driver and operator of CCTV; grouting equipment and tap cutting equipment	TM247-2 10/15/2012	\$31.70	\$43.45	H H H H H H H H N
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CCTV Technician/Combo Unit Operator: unit driver and operator of cctv unit or combo unit in connection with normal cleaning and televising work	TM247-3 10/15/2012	\$30.45	\$41.57	H H H H H H H H N
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Boiler Operator: unit driver and operator of steam/water heater units and all ancillary equipment associated	TM247-4 10/15/2012	\$32.20	\$44.20	H H H H H H H H N
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Combo Unit driver & Jetter-Vac Operator	TM247-5 10/15/2012	\$32.20	\$44.20	H H H H H H H H N
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Pipe Bursting & Slip-lining Equipment Operator	TM247-6 10/15/2012	\$33.20	\$45.70	H H H H H H H H N
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Official Request #: 518
 Requestor: Troy School District
 Project Description: Athens & Troy High Schools - Renovate Track Facilities
 Project Number: 5
 County: Statewide

Official Rate Schedule
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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 24 of 30

<u>Classification</u>		Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision
Name	Description					
Pipefitter						
Pipefitter	PF-636	6/26/2013	\$65.63	\$86.83	\$104.03	H H D H D D D D Y
	Apprentice Rates:					
	1st & 2nd periods		\$26.93	\$35.28	\$42.28	
	3rd period		\$28.93	\$38.28	\$46.28	
	4th period		\$30.18	\$40.16	\$48.78	
	5th period		\$31.43	\$42.03	\$51.28	
	6th period		\$32.68	\$43.90	\$53.78	
	7th period		\$33.93	\$45.78	\$56.28	
	8th period		\$34.93	\$47.28	\$58.28	
	9th period		\$35.93	\$48.78	\$60.28	
	10th period		\$37.36	\$50.92	\$63.14	
Plasterer						
Plasterer	BR1P	11/1/2012	\$45.04	\$67.56	\$90.08	H H H H H H D N
	Apprentice Rates:					
	1st 6 months		\$32.11	\$48.17	\$64.22	
	2nd 6 months		\$33.40	\$50.10	\$66.80	
	3rd 6 months		\$34.69	\$52.04	\$69.38	
	4th 6 months		\$37.28	\$55.92	\$74.56	
	5th 6 months		\$39.87	\$59.81	\$79.74	
	6th 6 months		\$42.45	\$63.68	\$84.90	
Plasterer	PL67	9/8/2010	\$44.72	\$60.11	\$75.50	H H H X D D D D N
	Apprentice Rates:					
	1st 6 months		\$29.33	\$37.02	\$44.72	
	2nd 6 months		\$30.87	\$39.34	\$47.80	
	3rd 6 months		\$32.41	\$41.64	\$50.88	
	4th 6 months		\$35.49	\$46.26	\$57.04	
	5th 6 months		\$38.56	\$51.16	\$63.76	
	6th 6 months		\$41.64	\$55.49	\$69.34	

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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

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Page 25 of 30

<u>Classification</u>	Last Updated	Straight Time and Hourly	a Double Half Time	Overtime Provision
Name Description				
Plumber				
Plumber	PL-98	\$64.45	\$84.87	\$101.29 H H D H D D D D Y
	7/18/2013			
Apprentice Rates:				
	Period 1	\$19.93	\$26.43	\$32.93
	Period 2	\$23.90	\$31.40	\$38.90
	Period 3	\$30.60	\$39.19	\$47.77
	Period 4	\$31.23	\$40.13	\$49.03
	Period 5	\$32.39	\$41.87	\$51.35
	Period 6	\$33.54	\$43.59	\$53.65
	Period 7	\$34.69	\$45.32	\$55.95
	Period 8	\$35.86	\$47.07	\$58.29
	Period 9	\$37.01	\$48.80	\$60.59
	Period 10	\$38.16	\$50.53	\$62.89
Roofer				
Commercial Roofer	RO-149-WOM	\$48.46	\$62.29	\$76.62 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.				
	8/18/2008			
Apprentice Rates:				
	Apprentice 1	\$32.62	\$39.86	\$48.04
	Apprentice 2	\$36.80	\$44.80	\$53.30
	Apprentice 3	\$38.22	\$46.93	\$56.14
	Apprentice 4	\$39.25	\$48.48	\$58.20
	Apprentice 5	\$40.47	\$50.30	\$60.64
	Apprentice 6	\$41.87	\$52.40	\$63.44
Sewer Relining				
Class I-Operator of audio visual CCTV system including remote in-ground cutter and other equipment used in conjunction with CCTV system.	SR-I	\$42.07	\$56.90	\$71.72 H H H H H H H D N
	3/27/2013			
Class II-Operator of hot water heaters and circulation system; water jettors; and vacuum and mechanical debris removal systems and those assisting.	SR-II	\$40.54	\$54.60	\$68.66 H H H H H H H D N
	3/27/2013			

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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 26 of 30

<u>Classification</u>	Last	Straight Time and	a Double	Overtime
Name Description	Updated	Hourly Half Time	Time	Provision

Sheet Metal Worker

Sheet Metal Worker	SHM-80	\$60.77	\$77.68	\$94.59	H H D X H H H D Y
A 4 10 schedule may be worked, 4 consecutive days					
Monday thru Friday.					
	8/1/2013				

Apprentice Rates:

1st & 2nd Periods Indentured after 6-1-11	\$38.12	\$45.73	\$53.34
3rd & 4th Periods Indentured after 6-1-11	\$39.82	\$48.28	\$56.74
5th & 6th Periods Indentured after 6-1-11	\$41.50	\$50.80	\$60.10
7th & 8th Periods Indentured after 6-1-11	\$43.19	\$53.34	\$63.48
9th & 10th Periods Indentured before 6-1-11	\$50.86	\$63.38	\$75.90

Siding and decking	SHM-80-SD	\$42.07	\$54.28	\$66.48	H H H H H H H D Y
	1/13/2014				

Sprinkler Fitter

Sprinkler Fitter	SP 704	\$63.92	\$84.88	\$105.83	H H D H D D D D Y
4 ten hour days allowed Monday-Friday					
Double time pay due after 12 hours worked M-F					
	1/10/2014				

Apprentice Rates:

1st Period	\$27.77	\$36.15	\$44.53
2nd Period	\$40.87	\$50.30	\$59.73
3rd Period	\$42.97	\$53.45	\$63.93
4th Period	\$45.06	\$56.59	\$68.11
5th Period	\$47.16	\$59.73	\$72.31
6th Period	\$49.25	\$62.87	\$76.49
7th Period	\$51.35	\$66.02	\$80.69
8th Period	\$53.44	\$69.15	\$84.87
9th Period	\$55.54	\$72.31	\$89.07
10th Period	\$57.63	\$75.44	\$93.25

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Official 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

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Page 27 of 30

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

Terrazzo

Terrazzo Finisher	BR1-TRF	\$43.43	\$54.38	\$65.33	H H D H D D D D Y
A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.					
	9/5/2013				

Apprentice Rates:

Level 1	\$18.80	\$24.77	\$30.73
Level 2	\$19.99	\$26.55	\$33.11
Level 3	\$26.67	\$33.52	\$40.36
Level 4	\$28.12	\$35.69	\$43.26
Level 5	\$29.62	\$37.37	\$45.13
Level 6	\$31.22	\$39.37	\$47.51
Level 7	\$32.89	\$41.08	\$49.26
Level 8	\$34.36	\$42.95	\$51.54

Terrazzo Worker	BR1-TRW	\$49.11	\$62.90	\$76.69	H H D H D D D D Y
A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.					
	9/5/2013				

Apprentice Rates:

Level 1	\$24.83	\$32.24	\$39.65
Level 2	\$27.85	\$36.04	\$44.23
Level 3	\$33.00	\$41.45	\$49.90
Level 4	\$35.70	\$45.09	\$54.49
Level 5	\$37.94	\$47.57	\$57.21
Level 6	\$41.55	\$52.91	\$64.27
Level 7	\$42.21	\$53.72	\$65.22
Level 8	\$43.13	\$55.10	\$67.06

Tile

Tile Finisher	BR1-TF	\$42.96	\$53.68	\$64.39	H H D H D D D D Y
A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.					
	9/5/2013				

Apprentice Rates:

Level 1	\$18.80	\$24.77	\$30.73
Level 2	\$19.99	\$26.55	\$33.11
Level 3	\$26.67	\$33.52	\$40.36
Level 4	\$28.12	\$35.69	\$43.26
Level 5	\$29.62	\$37.37	\$45.13
Level 6	\$31.22	\$39.37	\$47.51
Level 7	\$32.89	\$41.08	\$49.26
Level 8	\$34.36	\$42.95	\$51.54

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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 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 28 of 30

<u>Classification</u>	Last Updated	Straight Hourly	Time and Half	a Double Time	Overtime Provision
Name	Description				
Tile Layer	BR1-TL	\$49.06	\$62.83	\$76.59	H H D H D D D D Y
A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday.					

Apprentice Rates:

Level 1	\$24.83	\$32.24	\$39.65
Level 2	\$27.85	\$36.04	\$44.23
Level 3	\$33.00	\$41.45	\$49.90
Level 4	\$35.70	\$45.09	\$54.49
Level 5	\$37.94	\$47.57	\$57.21
Level 6	\$41.55	\$52.91	\$64.27
Level 7	\$42.21	\$53.72	\$65.22
Level 8	\$43.13	\$55.10	\$67.06

Truck Driver

on all trucks of 8 cubic yard capacity or less (except dump trucks of 8 cubic yard capacity or over, tandem axle trucks, transit mix and semis, euclid type equipment, double bottoms and low boys)	TM-RB1	8/8/2013	\$41.92	\$37.85		H H H H H H H H Y
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of all trucks of 8 cubic yard capacity or over	TM-RB1A	8/8/2013	\$41.30	\$38.00		H H H H H H H H Y
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on euclid type equipment	TM-RB1B	8/8/2013	\$41.45	\$38.23		H H H H H H H H Y
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Underground Laborer Open Cut, Class I

Construction Laborer	LAUC-Z1-1	9/5/2013	\$37.72	\$48.43	\$59.14	X X X X X X X D Y
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Apprentice Rates:

0-1,000 work hours	\$32.94	\$41.26	\$49.58
1,001-2,000 work hours	\$33.90	\$42.70	\$51.50
2,001-3,000 work hours	\$34.85	\$44.13	\$53.40
3,001-4,000 work hours	\$36.76	\$46.99	\$57.22

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

Project Number: 5

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 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 29 of 30

<u>Classification</u>	Last Updated	Straight Time and Hourly	a Double Time Half	Overtime Provision
Name Description				

Underground Laborer Open Cut, Class II

Mortar and material mixer, concrete form man, signal man, well point man, manhole, headwall and catch basin builder, guard rail builders, headwall, seawall, breakwall, dock builder and fence erector.	LAUC-Z1-2	10/25/2013	\$37.83	\$48.60	\$59.36	X X X X X X X D Y
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Apprentice Rates:

0-1,000 work hours	\$33.02	\$41.38	\$49.74
1,001-2,000 work hours	\$33.98	\$42.82	\$51.66
2,001-3,000 work hours	\$34.95	\$44.27	\$53.60
3,001-4,000 work hours	\$36.87	\$47.15	\$57.44

Underground Laborer Open Cut, Class III

Air, gasoline and electric tool operator, vibrator operator, drillers, pump man, tar kettle operator, bracers, rodder, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars, etc.), cement finisher, welder, pipe jacking and boring man, wagon drill and air track operator and concrete saw operator (under 40 h.p.), windlass and tugger man, and directional boring man.	LAUC-Z1-3	9/5/2013	\$37.88	\$48.67	\$59.46	X X X X X X X D Y
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Apprentice Rates:

0-1,000 work hours	\$33.06	\$41.44	\$49.82
1,001-2,000 work hours	\$34.02	\$42.88	\$51.74
2,001-3,000 work hours	\$34.99	\$44.33	\$53.68
3,001-4,000 work hours	\$36.92	\$47.23	\$57.54

Underground Laborer Open Cut, Class IV

Trench or excavating grade man.	LAUC-Z1-4	9/5/2013	\$37.96	\$48.79	\$59.62	X X X X X X X D Y
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Apprentice Rates:

0-1,000 work hours	\$33.12	\$41.53	\$49.94
1,001-2,000 work hours	\$34.09	\$42.99	\$51.88
2,001-3,000 work hours	\$35.06	\$44.44	\$53.82
3,001-4,000 work hours	\$36.99	\$47.33	\$57.68

Underground Laborer Open Cut, Class V

Pipe Layer	LAUC-Z1-5	9/5/2013	\$38.02	\$48.88	\$59.74	X X X X X X X D Y
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Apprentice Rates:

0-1,000 work hours	\$33.16	\$41.59	\$50.02
1,001-2,000 work hours	\$34.14	\$43.06	\$51.98
2,001-3,000 work hours	\$35.11	\$44.51	\$53.92
3,001-4,000 work hours	\$37.05	\$47.43	\$57.80

Official Request #: 518
 Requestor: Troy School District
 Project Description: Athens & Troy High Schools - Renovate Track Facilities
 Project Number: 5
 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 2014 Prevailing Wage Rates for State Funded Projects

Issue Date: 4/4/2014

Contract must be awarded by: 7/3/2014

Page 30 of 30

<u>Classification</u>	Last Updated	Straight Time and Hourly	Time and Half	a Double Time	Overtime Provision
Name	Description				
Underground Laborer Open Cut, Class VI					
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 and the installation and repair of water service pipe and appurtenances.	LAUC-Z1-6 9/5/2013	\$35.47	\$45.06	\$54.64	X X X X X X X D Y

Apprentice Rates:

0-1,000 work hours	\$31.25	\$38.73	\$46.20
1,001-2,000 work hours	\$32.10	\$40.00	\$47.90
2,001-3,000 work hours	\$32.94	\$41.26	\$49.58
3,001-4,000 work hours	\$34.63	\$43.79	\$52.96

Underground Laborer Open Cut, 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, flagstones etc.	LAUC-Z1-7 9/5/2013	\$32.09	\$39.99	\$47.88	X X X X X X X D Y

Apprentice Rates:

0-1,000 work hours	\$28.72	\$34.93	\$41.14
1,001-2,000 work hours	\$29.39	\$35.93	\$42.48
2,001-3,000 work hours	\$30.07	\$36.95	\$43.84
3,001-4,000 work hours	\$31.42	\$38.98	\$46.54

Official Request #: 518

Requestor: Troy School District

Project Description: Athens & Troy High Schools - Renovate Track Facilities

Project Number: 5

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.

SECTION 00 4500
STATEMENT REGARDING FAMILIAL RELATIONSHIP
MCL 380.1267 (d)

I am the _____ of _____, a bidder on a
(Title) *(Company Name)*

construction project for _____ that involves, at least in part,
(Name of School District)

construction of a new school building or an addition to or repair or renovation of an existing school building.

1. I have personal knowledge and/or I have personally verified that the following are all of the familial relationships existing between the owner(s) and employees(s) of the aforementioned contractor and the school district's superintendent and/or board members

The following are the familial relationship(s):

	<u>Owner/Employee Name</u>	<u>Related to:</u>	<u>Relationship</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

(Attach additional pages if necessary to disclose familial relationships.)

2. I have personal knowledge and/or I have personally verified that the following are all of the familial relationships existing between the owner(s) and employees(s) of the aforementioned contractor and the school district's superintendent and/or board members
3. I have authority to bind the aforementioned contractor with the representations contained herein, and I am fully aware that the school district will rely on my representations in evaluating bids for the construction project.

There is no familial relationship that exists between the owner(s) and employees(s) of the aforementioned contractor and the school district's superintendent and/or board members.

BIDDER'S FIRM NAME _____

BY (SIGNATURE) _____

PRINTED NAME AND TITLE _____

Subscribed and sworn before me, this _____

Seal:

Day of _____, 20____, a Notary Public

In and for _____ County, _____

Signature
NOTARY PUBLIC

My Commission expires _____

SECTION 00 4500
STATEMENT REGARDING FAMILIAL RELATIONSHIP
MCL 380.1267 (d)

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SECTION 00 4519
NON-COLLUSIVE AFFIDAVIT

STATE OF _____) ss

COUNTY OF _____)

_____, being first duly sworn, deposes and says:

That he is (a partner or officer, etc.) of the firm of, _____ the party making the foregoing proposal or bid, that such proposal or bid is genuine and not collusive or sham; that said bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any bidder or person, to put in sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference, with any person, to fix the bid price of affiant or of any other bidder, or to fix any overhead, profit or cost element of said bid price, or of that of any bidder, or to secure any advantage against the **TROY SCHOOL DISTRICT** _____ or any person interested in the proposed contract; and that all statements in said proposal or bid are true.

Signature of:

Bidder, if bidder is an individual:

Partner, if the bidder is a partnership;

Officer, if the bidder is a Corporation.

Subscribed and sworn to before me this ___ day of _____ 20_____

My commission expires:

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SECTION 00 4550
IRAN ECONOMIC SANCTIONS ACT

CERTIFICATION OF COMPLIANCE – IRAN ECONOMIC SANCTIONS ACT
MICHIGAN PUBLIC ACT NO. 517 OF 2012

AFFIDAVIT OF BIDDER

The undersigned, the Owner, or authorized officer of the below-named company (the "Company"), pursuant to the compliance certification requirement provided in the Troy School District's Request for Proposal Bid ("RFP"), hereby certifies, represents, and warrants that the Company (which includes its officers, directors and employees) is not an "Iran Linked Business" within the meaning of the Iran Sanctions Act, Michigan Public Act No. 517 of 2012, and that in the event the Company is awarded a contract by the Troy School District as a result of the aforementioned RFP, the Company is not and will not become an "Iran Linked Business" at any time during the course of performing any services under this contract.

The Company further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or two (2) times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the Troy School District's investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date that it is determined that a person has submitted a false certification.

PRINT:

Company Name

Street Address

City / State / Zip

Phone

Company Officer

Title

Officer's Signature

Date

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SECTION 00 6513
MATERIAL COMPLIANCE CERTIFICATE

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SECTION 00 6542
WARRANTY AND GUARANTEE

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.

1.2 NOTE

- A. The installation Contractor will be responsible for all tests that fail the specified characteristics. The Owner reserves the right to submit the surface to the above tests at any time during the length of the guarantee. Consideration will be given to the time and use of the surface.

1.3 GUARANTEE

- A. The Contractor shall be required to guarantee all labor, materials, workmanship and services for the All Weather Synthetic Track Surface and Track Markings.
- B. This guarantee shall remain in force for a period of not less than FIVE (5) YEARS from the date of written acceptance of the work.
- C. Any defects caused by cracks, normal abrasion or raveling that is not in original conformance with the testing specifications or structural in nature shall be repaired or replaced at no cost to the Owner during this guarantee period.
- D. This Contractor shall be required to submit the following documents in regard to the guarantee:
 - 1. Letter from the manufacturer of all materials attesting to the guarantee length and limits. This must be signed by an officer of the organization.
 - 2. Letter of Guarantee from the Installation Contractor for the above time period.
 - 3. These documents shall be submitted to the Architect or Owner prior to final payment.

PART 2 - PRODUCTS

N/A

PART 3 - EXECUTION

N/A

END OF SECTION 00 6542

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SECTION 00 7300
SUPPLEMENTARY CONDITIONS

STANDARD FORM

The Standard Form of General Conditions of the Contract for Construction, AIA Document A201 - 2007, issued by the American Institute of Architects, is a part of this specification. Copies are on file and may be obtained at the office of the Architect.

TABLE OF ARTICLES

1.	General Provisions	8.	Time
2.	Owner	9.	Payments and Completion
3.	Contractor	10.	Protection of Persons and Property
4.	Administration of the Contract	11.	Insurance and Bonds
5.	Sub-Contractors	12.	Uncovering and Correction of Work
6.	Separate Contracts	13.	Miscellaneous Provisions
7.	Changes in the Work	14.	Termination of Contract

The following supplements modify, change, delete from or add to the above named documents. Where any article of the General conditions is modified or any paragraph, subparagraph or clause thereof is modified or deleted by these supplements, the unaltered provisions of that article, paragraph, subparagraph or clause shall remain in effect.

ARTICLE 1

GENERAL PROVISIONS

1.1 DEFINITIONS

1.1.2 The Contract

1.1.2.1 The work shall be performed under separate or combined contracts. It is the duty of each Contractor to coordinate his work with that of each other Contractor. A complete set of drawings and specifications will be made a part of the Contract Documents for each Contractor.

1.1.4 The Project

1.1.4.1. The work covered in this project manual consists of construction and other related items, as set forth in the Instruction to Bidders, all pursuant to completion of Troy School District.

1.1.6.1 The term "product" as used in these Supplementary Conditions includes material, systems and equipment.

1.1.7.1 The term "Project Manual" as used in these Supplementary Conditions is the volume which includes the Bidding Requirements, Conditions of Contract and the Specifications.

1.2 CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

1.2.3.1 No responsibility either direct or implied is assumed by the Architect for omission or duplications by the Contractor or his Sub-contractor due to real or alleged error in arrangements of matter in these Contract Documents.

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

It is the intent that the Drawings and Specifications include everything necessary for the completion of the project and to be consistent with each other. It is hereby agreed and understood that work shown on the Drawings and not mentioned in the Specifications, or vice versa, is to be included the same as if it were mentioned in both the Drawings and the Specifications, with no extra charge to the Owner. If any part of the Drawings and/or Specifications are inconsistent, incorrect, or obscured in their meaning, these discrepancies shall be brought to the attention of the Architects in writing before execution of the Contract. Where there is conflict regarding the quality of any equipment or material, the one having the better quality shall be used unless directed by the Architect.

In submitting his proposal, the Contractor agrees to furnish all labor and supervision necessary to produce the construction required by the Contract Documents and all materials and equipment incorporated or to be incorporated in such construction.

- 1.2.4 The organization of the Specifications is done with the intent of defining the work for multiple Contract performance. The extent of responsibility for Contractor performance is overlapping from one technical section to another. It is the responsibility of each Contractor to cooperate and coordinate his work with other Contractors as necessary to meet all interface conditions standard to the industry and obvious to the intended extent of the work on this particular project.

1.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

- 1.5.1.1 Drawings and Specifications provided to those not party to the contract are to be returned immediately upon request of the Architect.

ARTICLE 2

OWNER

2.1 GENERAL

- 2.1.1.1 The Owner of this Project is:

Troy School District
1400 Rankin Street
Troy, MI 48083

2.2 INFORMATION AND SERVICES REQUIRED OF THE OWNER

- 2.2.3.1 The Owner shall obtain and pay for those items described (if any) set forth in the General Requirements.

- 2.2.4.1 The Owner shall issue all instruction to the Contractor through the Architect.

2.4 OWNER'S RIGHTS TO CARRY OUT THE WORK

- 2.4.1 The written notice will arrive in the form of, two (2) "forty-eight (48) hour notices" prior to Owner's carrying out the work. The method of notification is distributed via a fax transmittal and the original will be sent 1st Class Mail.

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

ARTICLE 3

CONTRACTOR

3.7 PERMITS, FEES AND NOTICES

- 3.7.1.1 The individual contractor will be responsible for securing and paying for permits pertaining to their area of work, and other items as set forth in the general requirements. Costs and arrangements for governmental inspection shall be the responsibility of the Contractor.

3.9 SUPERINTENDENT

- 3.9.1 The contractor shall provide adequate supervision over the work involved in his portion of the project. The Contractor shall designate a representative through which all communications shall be made. This representative shall work closely with the Architect in the performance of the work and his communications shall be binding on the part of the Contractor. Important communications shall be confirmed in writing.

- 3.9.1.1 All work shall be of the highest quality and in strict accordance with Manufacturer's published specifications and to Owner's satisfaction. Unacceptable workmanship will not be tolerated or permitted to continue.

3.10 CONTRACTOR'S CONSTRUCTION SCHEDULES

- 3.10.1.1 The Contractor and all Sub-Contractors, suppliers and manufacturers shall schedule materials, deliveries and installation expeditiously, and provisions to this effect shall be included in all subcontracts.
- 3.10.2.1 The Projected Construction Schedule as endorsed or modified by the Contractor, is part of the Contract Documents. This schedule constitutes the Contractor's commitment to expedient performance.
- 3.10.2.2 Modification to the Schedule as a result of allowable time extensions or increased scope of work shall be accepted by the Contractor as inherent to the construction process and shall not qualify as a basis for extra compensation from the Owner.

3.11 DOCUMENTS AND SAMPLES AT THE SITE

- 3.11.1.1 The drawings marked to record all changes and of underground installations made during construction, shall be delivered to the Architect upon completion of the work. Receipt of as-built drawings by the Architect is a condition for Final Payment.
- 3.11.1.2 The prints for record drawings will be a set of black and white prints provided by the Architect at start of construction. The Contractor shall maintain the set in good condition and shall use colored pencils to mark up the set in a legible manner to show:
- 3.11.1.2.A Significant deviations made during construction.
- 3.11.1.2.B Significant details not previously shown on drawings.

SECTION 00 7300
SUPPLEMENTARY CONDITIONS3.12 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

3.12.5 Shop drawings and samples shall be submitted to the Architect, dated and marked to show the names of the project, Architect, Contractor, originating Sub-contractor, Manufacturer or Supplier, and separate Retailer if pertinent. Shop drawings shall completely identify Specification section and locations at which materials or equipment are to be installed. Reproductions of Contract Drawings are acceptable as Shop Drawings only when specifically authorized in writing by the Architect.

Submission of shop drawings and samples shall be accompanied by a transmittal letter containing Project name, Contractor's name, number of drawings and samples, titles and other pertinent data.

3.12.5.1 Each Contractor shall provide the necessary record drawing information in timely and efficient manner.

3.12.5.2 Submission of shop drawings for approval shall consist of five (5) prints. One (1) print will be returned to the Contractor marked per Paragraph 3.12.11.1 following.

3.12.5.3 Unless otherwise specified, the number of shop drawings and the number of samples which the Contractor shall submit for record is the number that the Contractor requires to be returned plus five (5) copies for drawings and three (3) for samples which will be retained by the Architect/Owner.

If the shop drawing affects the work of another contractor(s) the Contractor shall provide additional copies as directed by the Architect.

3.12.8.1 The Contractor shall conscientiously supply all information required when submitting Shop Drawings and Samples. Information pertaining to delivery and expediting will be part of his submittal. This data is vital to field performance; consequently, the submittal will be returned unless complete information is provided.

3.12.11 Grading of shop drawings shall be as follows:

- A. No Exception Taken: No corrections, no marks.
- B. Reviewed and Noted,: Minor amount of corrections; all items can be fabricated without further correction; checking is complete and all corrections are obvious without ambiguity.
- C. Re-submit: Minor amount of corrections; noted items must not be fabricated without further corrections, checking is not complete, details of items noted by checker are to be further clarified before full approval can be given; items not noted to be corrected can be fabricated under this stamp.
- D. Disapproved: Drawing or equipment is not in accordance with the contract. Submit new drawings covering equipment which meets specifications. Drawings will be returned unstamped with notification on letter of transmittal.

3.13 USE OF SITE

3.13.1 The control of the site will be by the Owner. The Contractor shall cooperate with him in all matters involving use of the site.

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

3.14 CUTTING & PATCHING

3.14.2 Where cutting of existing work is necessary, same shall be straight, true and of proper size. No excessive cutting will be permitted nor shall any piers or other structural members be cut without the consent of the Architect. The Contractor shall not endanger any work by cutting, excavating or otherwise and shall not cut or alter the work of any other Contractor without the consent of the Architect.

3.14.2.1 The cutting of all existing work shall be performed by the Contractor requiring same except that the cutting of openings shall be performed by workmen skilled relative to the material being cut.

3.14.2.2 The patching of all exposed work shall be performed by workmen skilled relative to the material being patched.

3.14.2.3 All patching shall be done in a neat, workmanlike manner with materials to match existing.

3.14.2.4 Where cutting or patching is required of one Contractor because of negligence of another Contractor then the cost for same shall be borne by the negligent Contractor.

3.15 CLEANING UP

3.15.2 If the Contractor fails to clean up within 7 days after receipt of notice by the Architect, the Owner may do so and the cost thereof shall be charged to the Contractor.

3.15.2.1 Each Contractor shall perform clean up of his own work including knocked down boxes and other containers. Debris shall not be buried on the site.

3.17 ROYALTIES, PATENTS AND COPYRIGHTS

3.17.1 The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of patent rights and shall hold the Owner and Architect harmless from loss on account thereof.

3.19 SUBSTITUTIONS

3.19.1 After the contract has been executed, the Architect will consider a formal request for substitution of products for those specified, under the following conditions:

- A. The request is accompanied by complete data on the proposed substitution substantiating compliance with the Contract Documents including product identification and description, performance and test data, references and samples where applicable, and an itemized comparison or proposed substitution with the products specified or named by Addenda, with data relating to Contract time schedule, design and artistic effect where applicable, and its relationship to separate contracts.
- B. The request is accompanied by accurate cost data on the proposed substitution in comparison with the product specified, whether or not modification of the Contract Sum is to be a consideration.

3.19.2 Requests for substitution based on Clause 3.19.1 above, when forwarded by the Contractor to the Architect, are understood to mean that the Contractor:

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

- A. Represents that he has personally investigated the proposed substitute product and determined that it is equal or superior in all respects to that specified.
- B. will provide the same guarantee for the substitution that he would for that specified.
- C. certifies that the cost data presented is complete and includes all related costs under this contract, but excludes costs under separate contracts and the Architect's redesign costs, and that he waives all claims for additional costs related to the substitution which subsequently became apparent; and
- D. will coordinate the installation of accepted substitute, making such changes as may be required for the work to be complete in all respects.

Substitutions will not be considered if:

- A. They are indicated or implied on the shop drawings submissions without the formal request required in Clause 3.19 above; or
- B. For their implementation they require a substantial revision of the Contract Documents in order to accommodate their use.

ARTICLE 4

ADMINISTRATION OF THE CONTRACT

4.1 THE ARCHITECT

- 4.1.1.1 Requests concerning interpretations during the construction period shall be made to the Landscape Architect. The term "Architect" means the Landscape Architect or the Landscape Architect's representative.

The Landscape Architect for this project is Foresite Design, Inc., 3269 Coolidge Highway, Berkley, MI 48072. (248) 547-7757.

4.5 MEDIATION

- 4.5.1 Binding mediation will be entered into only if mutually agreed upon by both the Owner and Contractor.

ARTICLE 6

CONSTRUCTION BY OWNER OR
BY SEPARATE CONTRACTORS

6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION
AND TO AWARD SEPARATE CONTRACTS

- 6.1.1 Delete:

"...and waiver of subrogation."

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

- 6.1.3.1 A pre-construction conference will be held to review schedule, in the event separate contracts are issued all work must be completed as outlined in the bidding documents. Contractor shall coordinate their Work with other trades in a manner that is in the best interest of the Owner and the overall project.

ARTICLE 7

CHANGES IN THE WORK

7.3 CONSTRUCTION CHANGE DIRECTIVES

7.3.10 Add:

"The following fees apply to Changes in the Work in accordance with Subparagraph 7.3.6:

- a. 7 percent overhead and profit on the net cost of materials and labor done by the Contractor;
- b. 7 percent overhead and profit on the net cost of materials and labor done by any Subcontractor.

ARTICLE 8

TIME

8.2 PROGRESS AND COMPLETION

- 8.2.4 During the course of the work, the Architect will condone reduced crew size or even total absence on the part of the Contractor, providing such reduced activity is mutually agreed to and will not slow down or interfere with the overall progress of the work. However, when work is available and is required to maintain the Construction Schedule or assist an interface situation, performance by the Contractor is mandatory. If performance is not maintained by the contractor, the Owner will give the Contractor two (2) forty-eight (48) hours notices before taking over completion of work as covered in Article 2.4.1.

- 8.2.4.1 The Contractor will keep accurate daily records of performance on all Contracts involved in the project. The comparison of these records with the Contractor's commitment to the Construction Schedule will determine his effort in pursuit or total project completion.

8.3 DELAYS AND EXTENSIONS OF TIME

- 8.3.1.1 If a delay on the part of one Contractor directly affects the progress of others, then time extensions shall be granted to those directly affected. Necessarily, however, the granting of time extensions shall not increase the required working time span for any Contractor, only the completion date.
- 8.3.2 All claims for extension of time shall be made in writing to the Architect no more than seven (7) days after the occurrence of the delay; otherwise, they shall be waived. In the case of a continuing cause of delay, only one claim is necessary.

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

ARTICLE 9

PAYMENTS & COMPLETION

9.2 SCHEDULE OF VALUES

9.2.1 The Architect shall review the schedule of values, submitted by the Contractor. The schedule of values shall be prepared in such a manner that each major item of work and each subcontracted item of work is shown as a single line item on AIA Document G702, Application and Certificate for Payment, Continuation Sheet, G703.

9.3 APPLICATIONS FOR PAYMENT

9.3.1 Substitute the following:

No later than the 15th day of each month, the Contractor shall submit to the Architect an itemized Application for Payment, supported by such data substantiating the contractor's right to payment as the Owner and Architect may require. Payment by the Owner will be made on or before the 20th day of the following month.

9.3.1.3 Until final payment, the Owner will pay ninety percent (90%) of the amount due to the Contractor on account of progress payments. If the manner of completion of the work and its progress are, and remain, satisfactory to the Architect, and in the absence of other good and sufficient reasons and shown to be fifty percent (50%) or more complete in the Application retainage, on presentation by the Contractor of Consent of Surety for each application, the landscape architect shall certify any remaining progress payments to be paid in full.

9.3.1.4 The full contract retainage may be reinstated if the manner of completion of the work and its progress do not remain satisfactory to the Architect, or if the surety withholds his consent, or for other good and sufficient reasons.

9.3.1.5 The form of Application for Payment shall be AIA Document G702, Continuation Sheet, G703.

9.3.1.6 At the time the payment is submitted, the Contractor will present to the Architect in triplicate and original, a Sworn Statement and a Waiver of Lien in the amount of the payment. Waivers from Sub-contractors, and Suppliers representing major expenditures shall also be required. **If these documents are not attached, the pay application will not be processed.**

9.3.1.7 Final payment will be made within 30 days after the Contractor has achieved final completion as determined by Owner and supplied necessary submittals/warranties/guarantees as may be required elsewhere in the contract document. 10% of value of Work completed and acceptable will be retained by Owner until final payment.

9.6 PROGRESS PAYMENTS

9.6.1 The Owner shall make payment to the Contractor on or before the twentieth (20th) day of the month following the Contractor's submission of Application for Payment and after the Architect has issued a Certificate for Payment.

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

9.8 SUBSTANTIAL COMPLETION

- 9.8.1.1 The Architect will prepare a Certificate of Substantial Completion when he determines that the work of each individual Contract is substantially complete.
- 9.8.4.1 The Contractor shall finish all items on the list within thirty (30) days of the acceptance of the Certificate of Substantial Completion. If completion is not obtained within thirty (30) days, the Owner will give the Contractor two (2) forty-eight (48) hours notices before taking over completion of work as covered in Article 2.4.1.

9.10 FINAL COMPLETION AND FINAL PAYMENT

- 9.10.1.1 The Architect will issue a final Certificate for Payment after he finds the work acceptable under Contract Documents and the Contract fully performed.
- 9.10.2.1 Final payment, covering each individual Contract, will be made by the Owner to the Contractor thirty days after Substantial Completion of the work unless otherwise stipulated in the Certificate of Substantial Completion, provided the work has then been completed, the Contract fully performed, and a final Certificate for Payment has been issued by the Architect.

ARTICLE 10

PROTECTION OF PERSONS AND PROPERTY

10.1 SAFETY PRECAUTIONS AND PROGRAMS

- 10.1.1 Contractor shall adequately protect building, service drives, lawn, shrubs, trees etc. from damage, including water damage, during the process of performing required Work. Contractor shall repair or be responsible for the costs to repair, all property damaged during the performance of this Contract. Damages to the building will be addressed immediately and sent to Contractor in writing by Owner.

10.2 SAFETY OF PERSONS AND PROPERTY

- 10.2.8 Contractor shall be responsible for all means and methods as they relate to safety and shall comply with all applicable local, state and federal requirements that are safety related. Safety shall be the responsibility of the Contractors. All contractor related personnel shall be instructed daily to be ever mindful of the full time requirement to maintain a totally safe environment for the facilities' occupants including students, staff, visitors and the occurrence of the general public on or near the site.

ARTICLE 11

INSURANCE AND BONDS

11.1 CONTRACTOR'S LIABILITY INSURANCE

- 11.1.1 In the first line following the word "maintain", insert the words "In a company or companies licensed to do business in the state in which the Project is located."

SECTION 00 7300
 SUPPLEMENTARY CONDITIONS

11.1.1.9 Liability insurance shall include all major divisions of coverage and be on a comprehensive basis including:

1. Premises - Operations (including X-C-U). (For underground work only)
2. Independent Contractor's protective
3. Products and completed operations
4. Contractual - including specified provisions for the Contractor's obligations under Paragraph 3.18.
5. Owned, non-owned and hired motor vehicles.
6. Broad form coverage for property damage.

Add the following:

11.1.2.1 Add the following minimum limits:

- | | | |
|-----------|--|-----------------------------------|
| 1. | Worker's Compensation | \$ 2,000,000.00 |
| 2. | General Liability and Property Damage | \$ 2,000,000.00/occurrence |
| | A. Bodily Injury | |
| | Each Occurrence | \$ 2,000,000 |
| | B. Personal Injury | |
| | Aggregate | \$ 2,000,000 |
| | General Aggregate | \$ 3,000,000 |
| | C. Property Damage | |
| | Each Occurrence | \$ 2,000,000 |
| | Aggregate | \$ 3,000,000 |
| 3. | Automobile Liability | \$ 2,000,000.00 |
| 4. | Independent Contractors | |
| | Same limits as above | |
| 5. | Products and Completed Operations | |
| | Same limits as above | |

11.1.2.2 The Contractor will require all Sub-contractors to maintain similar insurance coverage.

11.1.2.3 In addition to the General Liability coverage required by Article 11.1.2.1, the Contractor will maintain during the period of this Contract Umbrella Liability Insurance covering the risk of losses of \$ 2,000,000.00 in excess of the limits stated in Article 11.1.2.1.

11.1.3.1 Furnish one (1) copy of Certificates herein required for each copy of the Agreement; specifically set forth evidence of all coverage required by Subparagraph 11.1.1. and 11.1.2. Furnish the Owner copies of any endorsements that are subsequently issued amending coverage or limits.

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

11.1.3.2 All Certificates for insurance shall name the Owner and Architect as additionally insured.

11.1.3.3 The following language shall be indicated on all certificates of insurance from successful bidder: Troy School District, its elected or appointed officials, employees and volunteers are included as insured with regards to damages and defense of claims arising from: (a) activities performed by or on behalf of the named insured, or (b) products and completed operations of the named insured, or (c) premises owned, leased, or used by the named insured".

11.3 PROPERTY INSURANCE

11.3.5 Delete the last sentence in its entirety:

"All separate policies shall provide this waiver of subrogation by endorsement or otherwise."

11.3.7 Delete this section in its entirety:

"The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, and (2) the Architect, Architect's consultants, separate contractors described in Article 6, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to this Section 11.3 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Contractor, as appropriate, shall require of the Architect, Architect's consultants, separate contractors described in Article 6, if any, and the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged."

11.3.9 Add the following sentence:

In waiving rights of recovery under terms of this Subparagraph, the term "Owner" shall be deemed to include his employees, the Architect, and their employees as the Owner's representative as provided in the Contract Documents.

11.3.11 If the Owner finds it necessary to occupy or use a portion or portions of the work prior to Substantial Completion, such occupancy shall not commence prior to a time mutually agreed to by the Owner and the Contractor and concurred with by the insurance company or companies. This insurance shall not be canceled or lapsed on account of such partial occupancy.

11.5 OWNER'S PROTECTIVE INSURANCE

11.6.1 The Contractor shall provide Owner's Protective Insurance on same limits as specified in 11.1.1 and 11.1.2 above, naming the Architect as additionally insured.

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

ARTICLE 13

MISCELLANEOUS PROVISIONS

13.3 WRITTEN NOTICE

13.3.1 Written notice shall be deemed to have been duly served if delivered or sent via the telephone facsimile machine to the last known number to the party giving notice.

13.5 TESTS AND INSPECTIONS

13.5.1 The Owner shall pay for all testing.

13.8 NO SMOKING

13.8.1 No smoking is permitted in the building or on school grounds.

13.9 SECURITY

13.9.1 Contractors shall observe the following procedure when working in a school building, unless otherwise instructed:

1. Proceed to the office, identify yourself, state reason for being in the building, and receive visitors pass.
2. Complete work, then revisit the office to check out prior to leaving the building/premises.

13.10 ENVIRONMENTAL SAFETY/RESPONSIBILITY

13.10.1 It shall be the responsibility of the Contractor or sub-contractor to pay any and all costs incurred from the clean up related to any environmental hazard created by means of contamination caused by accident or neglect of the Contractor or sub- contractor.

It shall be the responsibility of the Contractor or sub-contractor to dispose of any environmentally hazardous product(s) and/or material in accordance with the EPA, DNR, and local applicable laws and regulations.

It shall be the responsibility of the Contractor or sub-contractor, if required, to purchase permits and notify the proper authorities prior to commencing said project or, should a "release" take place, to notify proper authorities of any such release.

It shall be the responsibility of the Contractor or sub-contractor to maintain on site a blood borne pathogen plan and all necessary safety supplies associated with any spill or clean up that may occur.

13.11 RIGHT TO KNOW

13.11.1 In accordance with **MIOSHA** regulations pertaining to the "**Michigan Right to Know Law**" the owner has posted Material Safety Data Sheets for any hazardous chemicals in their workplace. The Contractor shall designate a coordinator to oversee the institution and maintenance of a similar program for the areas in which the construction work will take place. The program must encompass all **MIOSHA** Regulations with regards to the "**Michigan Right to Know Law**" for all hazardous chemicals which will be used on site during the course of construction.

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

13.12 ASBESTOS FREE CERTIFICATION

No asbestos containing material shall be purchased or installed as a part of this project. The Contractor shall be required to certify that no asbestos containing materials have been replaced in this project. **Approved certification shall be on file with the Owner prior to consideration for final payment.**

13.13 AFFIRMATIVE ACTION

Troy School District as an Equal Opportunity Affirmative Action Employer, Complies with the federal and state laws prohibiting discrimination, including Title IV and Title VII (with amendments) of the 1964 Civil Rights Act, Title IX of the Educational Amendment of 1972, Section 504 of the Rehabilitation Act of 1973 and Veterans Readjustment Act of 1974 as amended 38 USC20-12 and the Americans With Disabilities Act of 1990. It is the policy of the school board that no person, on the basis of race, sex, height, weight, color, religion, nation origin or ancestry, age, marital status, disability or veteran status, shall be discriminated against in employment, educational programs and activities, or admission.

END OF SECTION 00 7300

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

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SECTION 01 2300
ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for alternates as proposed by the Landscape Architect. The bidder proposes the following Voluntary Alternates for the sums to be deleted from the Base Bid as stated below:

- 1. **Voluntary Alternates or Substitutions proposed by Bidders will not form the Base Bid Proposal Price**

- B. VOLUNTARY ALTERNATE NO. 1:

—

—

—

Which would save the Owner:

() Dollars

- C. VOLUNTARY ALTERNATE NO. 2:

—

—

—

Which would save the Owner:

() Dollars

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Proposal Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner

SECTION 01 2300
ALTERNATES

decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment or installation methods described in the Contract Documents.

1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the work, No other adjustments are made to the Contract Sum.
- B. Voluntary Alternate: Bidders proposing voluntary alternates and substitutions will not be recognized as part of the Base Bid Price. Owner may review voluntary proposal with the successful Bidder.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into the project.
1. Include as part of each alternate, miscellaneous products, equipment, and similar items incidental to or required for a complete installation whether or not indicated as part of the alternate.
- B. Notification: Immediately following award of Contract, notify each party involved of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. **Alternate A-1:** Description
- B. **Alternate B-1:** Description

END OF SECTION 01 2300

SECTION 01 2619
CLARIFICATION REQUEST

DATE: _____

Project: Track Renovations

	Proposal A – General Construction
	Proposal B – All-Weather Surface

To: Foresite Design Inc.
3269 Coolidge Hwy.
Berkley, MI 48072
Office: (248) 547-7757
Fax: (248) 547-0218

FROM:

Company Name

Contact Name

Address

City, State Zip

Phone # Fax #

CLARIFICATION:

1. _____

2. _____

3. _____

RESPONSE:

1. _____

2. _____

3. _____

SECTION 01 2619
CLARIFICATION REQUEST

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SECTION 01 3523
SAFETY REQUIREMENTS

PART 1 - GENERAL**1.1 DESCRIPTION**

- A. Safety is the responsibility of each individual Contractor. Each Contractor shall comply with all local safety ordinances and MI-OSHA regulations and requirements while performing the Work.
- B. Each Contractor is required to submit Material Safety Data Sheets (MSDS) to the Construction Manager, to be used for reference only, prior to transporting the material/chemical on site. In addition, it is the responsibility of each Contractor to maintain and accessible MSDS file for their employees, subcontractors, and suppliers on site.
- C. Each Contractor shall submit evidence of an Employer Safety Program that complies with current MI-OSHA regulations and requirements prior to beginning any contract Work.
- D. The Contractor and their Sub-Contractor(s) and suppliers shall take all necessary precautions to ensure the safety of the public and of workers on the job, and to prevent accidents or injury to any persons, on about, or adjacent to the premises where the Work is being performed. The Contractor and the Sub-Contractor(s) and suppliers shall comply with Federal or State OSHA regulations and all other laws, codes, ordinances, and regulations relative to safety and the prevention of accidents.
- E. The Contractor shall designate a responsible representative at the job site as a Safety Representative who shall be responsible for the promotion of safety and prevention of accidents, and shall enforce all applicable laws, ordinances, codes, rules, regulations and standards pertaining to safety and prevention of accidents.
- F. Each Contractor shall submit their Experience Modification Rating (EMR) to the Construction Manager. In addition, the Contractor is responsible to provide to the Construction Manager a listing of any MIOSHA violations or citations they have received in the past 5 years.
- G. Upon award of Contract, Contractor must provide Construction Manager with a 'Safety Manual'. Record copy of safety manuals will be retained onsite. Safety Manual shall include the following, but not limited to:
 - Loss Control Program
 - Hazard Communication Program
 - Respiratory Protection Program
 - Necessary Forms Needed to Adequately Perform Job

END OF SECTION 01 3523

SECTION 01 3523
SAFETY REQUIREMENTS

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SECTION 01 4100
REGULATORY REQUIREMENTS

PART 1 - GENERAL**1.1 PERMITS AND INSPECTION FEES**

- A. The Owner will secure and pay for all general building permits.
- B. All soil erosion and DEQ permits, mechanical, and electrical permits shall be applied for, secured, and paid for by the Contractor requiring such permits.
- C. Any other specialized permits or inspection fees (i.e. utility taps or fees) shall be applied for, secured, and paid by the Contractor requiring such permits.

1.2 INSPECTIONS

- A. Any Contractor requiring special inspection by the State or other agency shall arrange and schedule the inspection and give a minimum of 48 hour notice to the Construction Manager, Architect, or Engineer.
- B. Partial occupancy permits may be applied for by the Owner. All Contractors will cooperate and assist in securing and maintaining partial occupancy permits.
- C. Mechanical and electrical Contractors shall review their specifications to comply with all special testing and inspections.
- D. Where the Contract Documents require inspections, tests or approvals of the Work to be made by an independent testing agency or laboratory or an independent professional consultant, the independent testing agency or laboratory or independent professional consultant shall be satisfactory to the Architect, Engineer and Construction Manager.
- E. Each contractor shall inspect work of others which will receive or is adjacent to their work before commencing their work. Do not proceed until conditions which would result in a less than satisfactory installation are corrected. Commencing work shall constitute as acceptance of the work or others by the contractor as satisfactory to receive their work.

END OF SECTION 01 4100

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SECTION 02 4113
DEMOLITION**PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Related Sections:
 - 1. Section 31 1000 Site Preparation
- C. Work Included:
 - 1. All-Weather Track Surface
 - 2. Remove Existing Asphalt

1.2 SCOPE

- A. The work under this section of the specifications shall consist of the removal and disposal of all items as indicated on the drawings. Contractor shall furnish all labor, materials and equipment to complete the work according to the drawings and specifications.
- B. The work under this section of the specifications shall consist of the removal and disposal of all items as indicated on the drawings. Contractor shall furnish all labor, materials and equipment to complete the work according to the drawings and specifications.
- C. All other facilities and items that are indicated shall remain and be protected from construction damage. Areas damaged to known fault of the Contractor during construction shall be repaired or replaced at the expense of the Contractor. Lawn, paving, and concrete damaged during construction shall be restored to the condition which existed prior to commencement of Contractor's work.

PART 2 - PRODUCTS

N/A

PART 3 - EXECUTION**3.1 EXECUTION**

- A. General
 - 1. Contractor shall not, for any reason, dump or leave any excavated materials on property.
 - 2. Contractor shall remove all items as indicated on drawings.
- B. Removal of Debris
 - 1. Promptly remove cleared debris from the site.
 - 2. Burning of debris on site is not permitted, unless permission is obtained from applicable regulatory authority.
 - 3. Obtain permission from applicable regulatory authority for disposal of debris to waste disposal site.

END OF SECTION 02 4113

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SECTION 03 3000
CAST IN PLACE CONCRETE

PART 1 - GENERAL**1.1 SUMMARY**

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Related Sections:
 - 1. Section 31 1000 Site Preparation
 - 2. Section 31 2000 Earthwork

1.2 SCOPE

- A. The work under this section of the specifications shall consist of furnishing all labor, materials and equipment necessary to construct Portland cement concrete pad.

1.3 QUALITY ASSURANCE

- A. Reference Standards:
 - 1. American Society for Testing and Materials (ASTM):
 - a. ASTM C 94-97 – Standard Specification for Ready Mixed Concrete
 - b. ASTM C 171-69 (1975) - Standard Specification for Sheet Materials for Curing Concrete
 - c. ASTM C 309-74 - Standard Specification for Liquid Membrane Forming Compound for Curing Concrete
 - d. ASTM D 1751-73 - Standard Specification for Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Non-extruding and Resilient Bituminous Types).

1.4 SUBMITTALS & TEST REPORTS

- A. Submit reports of Portland cement concrete compression, yield and air content tests listed in ASTM C 94.

1.5 ENVIRONMENTAL REQUIREMENTS PORTLAND CEMENT CONCRETE

- A. Allowable concrete temperatures
 - 1. Cold Weather: Maximum and minimum, ASTM C94
 - 2. Hot Weather: Maximum concrete temperature - 90 degrees F. (23 degrees C.)
- B. Do not place concrete during rain, sleet or snow.

1.6 PROTECTION

- A. Protect concrete from traffic for minimum of seven (7) days.

1.7 MEASUREMENT

- A. Sidewalk shall be considered part of lump sum price as per the proposal form including installation of aggregate base course and topsoil backfilling operation.

SECTION 03 3000
CAST IN PLACE CONCRETE

PART 2 - PRODUCTS**2.1 MATERIALS**

- A. Ready Mixed Concrete: ASTM C94
1. Cement type: type 3, grade A, 3500 psi (28 day compressive strength)
 2. Admixtures: air-entrained 6%
 3. Slump: two (2) to three (3) inches
 4. Minimum 594 lbs. of cement per cubic yard.
 5. No admixtures other than air-entraining without approval of the Landscape Architect.
 6. Curing material: ASTM C171, 4 MIL white opaque polyethylene type, or ASTM C309, type 2, white pigmented curing compound.
 7. Expansion Joint Fillers: ASTM D1751-73, performed non-extruding, resilient bituminous type, width as indicated on plans.
 8. Wire fabric: 6 X 6 10/10 fabric in all slabs on grade unless otherwise indicated.
 9. Reinforcing: Reinforcing shall be new, clean and free of rust deformed steel, size and location as noted on drawings.
 10. Water: Clean, fresh, potable and free of deleterious amounts of acids, alkalis, organic materials and/or dissolved or suspended materials of any kind.

PART 3 - EXECUTION**3.1 INSPECTION**

- A. Verify the earthwork is completed to correct line and grade. Notify the Owner/Landscape Architect of any incomplete work by previous contractors.
- B. Check that sub-grade is smooth, compacted and free of frost or excessive moisture.
- C. Do not commence work until conditions are satisfactory.

3.2 WEATHER PROTECTION

- A. Cold weather: When the mean daily air temperature is 40 degrees F. or below, provide suitable protection for concrete work to maintain a minimum concrete temperature of 50 degrees F. for five (5) days (or 70 degrees F. for three (3) days). After the protection period, do not let concrete cool more than 20 degrees F. in each successive day
- B. Hot weather: Employ suitable means to prevent too rapid drying. Shade fresh concrete as soon as possible without marring surface.
- C. Wet weather: Unless adequate protection is provided, do not place concrete in rain, sleet or snow.

3.3 INSTALLATION

- A. Contractor shall install the first section of sidewalk as a quality sample in place. Upon approval of sample by Landscape Architect, further installation can proceed.
- B. The sub-grade upon which concrete is to be placed shall be prepared by excavation or filling with suitable earth to such depth below the finished grade line, that when tamped or rolled until smooth, firm and hard, the sub-grade will be uniform and at the required depth below finished grade line.

SECTION 03 3000
CAST IN PLACE CONCRETE

- C. Unsuitable sub-grade soils shall be replaced as directed.
- D. Gravel backfill, when specified in the drawings, shall be constructed to the required depth and thoroughly compacted.
- E. Cast in Place Concrete
 - 1. Set forms to line and grade
 - 2. Install forms over full length of walk and oil before use.
 - 3. Forms shall be set accurately to line and grade. If the forms are set more than 0.01 foot (3mm) above or below grade or more than 0.01 foot (6mm) from prescribed alignment, they shall be corrected before any concrete is placed
 - 4. Flexible or curved forms of proper radii shall be used on all curves having a radius of 100 feet or less.
 - 5. Form contraction joints by tooling.
 - 6. Install expansion joint material behind walks at abutment curbs and adjacent structures with expansion joints every 100 feet (30m) or as detailed. Place top of expansion joint material flush with walk surface, unless noted otherwise on plans.
 - 7. Place concrete with mechanical vibrators.
 - 8. Consolidate concrete with mechanical vibrators.
 - 9. Round edges of walks at top with finishing tool, 1/4" to 3/8" radius.
 - 10. Finished exposed walk surfaces with wood float followed by brushing with broom, smooth band of 12", unless otherwise shown on drawings.
 - 11. Apply plastic sheeting or curing material and cure for seven (7) days.
 - 12. Apply plastic sheeting or curing material
 - 13. Do not allow free drop of more than five (5) feet. Use elephant trunk when necessary.
- F. Slip form concrete to the same quality standards as cast in place.
 - 1. Construct concrete walk with slip form curb machine.
 - 2. Apply curing material and cure for seven (7) days.
 - 3. Saw expansion and contraction joints after concrete has sufficiently hardened.

3.4 FIELD QUALITY CONTROL

- A. Slump Tests: Make slump tests whenever concrete is being poured at the direction of the Owner.
- B. Compression Tests: Prepare standard test cylinders during the placing of concrete in accordance with ASTM 31 and ASTM 172. One set (three (3) cylinders) is required for each day's pour.
- C. Maintain two (2) cylinders at 50 to 70 degrees F. and protect from loss of moisture at the job site for a period of not over 48 hours, then deliver to the laboratory for curing and testing at seven (7) and twenty-eight (28) days, respectively. Place third cylinder near the in place concrete and cure completely at the job in the same manner as the in place concrete. Deliver this cylinder to the laboratory for testing at twenty-eight (28) days. Cure and test cylinders in accordance with ASTM C31, C39 and C192. Submit test reports to the Landscape Architect in duplicate

3.5 PROTECTION OF FINISHED SURFACES

- A. All finished surfaces of concrete shall be protected so as to prevent damage. Marking temporary nailing or other damaging use of surfaces will be prohibited.

SECTION 03 3000
CAST IN PLACE CONCRETE

3.6 PATCHING

- A. Patch to match material, color and texture of surrounding area.
- B. Replace defective work if patching is not acceptable to the Landscape Architect.

3.7 CLEAN-UP

- A. The Contractor shall remove excess excavated material from the site of the work. Spread and finish grade within five (5) feet of pad edge. Finish grading is incidental to pad installation. Contractor shall clean up and dispose of rubble and construction satisfactory to the Owner and Landscape Architect.

END OF SECTION 03 3000

SECTION 03 3010
PORTLAND CEMENT CONCRETE

PART 1 - GENERAL**1.1 SUMMARY**

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Related Sections:
 - 1. Section 32 1124 Aggregate Base Course

1.2 SCOPE

- A. The work under this section of the specifications shall consist of furnishing all labor, materials and equipment necessary to construct Portland cement concrete, turf anchor, concrete slabs, and foundations.

1.3 QUALITY ASSURANCE

- A. Reference Standards:
 - 1. American Society for Testing and Materials (ASTM):
 - a. ASTM A185 – Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete
 - b. ASTM A615 – Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement
 - c. ASTM A82 – Standard Specification for Steel Wire, Plain for Concrete Reinforcement
 - d. ASTM C172 – Standard Practice for Sampling Freshly Mixed Concrete
 - e. ASTM C192 – Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory
 - f. ASTM C260 – Standard Specification for Air-Entraining Admixtures for Concrete
 - g. ASTM C309 – Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete
 - h. ASTM C31 – Standard Specification for Making and Curing Concrete Test Specimens in the Field
 - i. ASTM C39 – Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
 - j. ASTM C618 – Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
 - k. ASTM C94 – Standard Specification for Ready-Mixed Concrete
 - l. ASTM C171-69 (1975) – Standard Specification for Sheet Materials for Curing Concrete
 - m. ASTM C309-74 – Standard Specification for Liquid Membrane Forming Compound for Curing Concrete
 - n. ASTM D1751-73 – Standard Specification for Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Non-extruding and Resilient Bituminous Types).

1.4 SUBMITTALS

- A. Test Reports: Reports of Portland cement concrete compression, yield and air content tests.
- B. Product Data: Submit data for propriety materials and items, including reinforcement and forming

SECTION 03 3010
PORTLAND CEMENT CONCRETE

accessories, admixtures, patching compounds, joint systems, curing compounds, and others to the Landscape Architect/Engineer.

C. Shop Drawings

1. Reinforcement: Submit shop drawings for fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315 "Manual of Standard Practice for Detailing Reinforced Concrete Structures" showing bar schedules, stirrup spacing, diagrams of bent bars, arrangement of concrete reinforcement. Include special reinforcement required and openings through concrete structures.

D. Samples: Submit samples of materials as specified and as otherwise requested by Landscape Architect, including names, sources and descriptions.

E. Material Certificates: Provide materials certificates in lieu of material laboratory test reports when permitted by Landscape Architect/Engineer. Material Certificates shall be signed by manufacturer and Contractor, certifying that each material item complies with, or exceeds, specified requirements.

1.5 ENVIRONMENTAL REQUIREMENTS

A. Portland Cement Concrete

1. Allowable concrete temperatures
 - a. Cold Weather: Maximum and minimum.
 - b. Hot Weather: Maximum concrete temperature: 90°F. (23°C.)
2. Do not place concrete during rain, sleet or snow.

1.6 PROTECTION

A. Protect concrete from traffic for minimum of seven (7) days.

PART 2 - PRODUCTS

2.1 FORM MATERIALS

A. Forms for Unexposed Finish Concrete: Form concrete surfaces which will be unexposed in finished structure with plywood, lumber, metal or other acceptable material. Provide lumber dressed on at least 2 edges and one side for tight fit. Minimum thickness for lumber form shall be 1" for boards and 5/8" for plywood.

B. Form Coatings: Provide commercial formulation form-coating compounds that will not bond with, stain nor adversely affect concrete surfaces, and will not impair subsequent treatments of concrete surfaces.

C. Forms for Slab-on-grade construction joints: Forms for slab-on-grade construction joints shall be prefabricated metal forms to produce tongue and groove joint. Form shall be approved by Architect/Engineer.

D. Synthetic turf anchoring curb system: Forms shall be prefabricated metal forms to produce tongue and groove joint. Automated self propelled curb-and-gutter equipment shall not be allowed.

SECTION 03 3010
PORTLAND CEMENT CONCRETE

2.2 REINFORCING MATERIALS

- A. Reinforcing Bars: Grade 60, deformed
- B. Steel Wire: Plain, cold drawn, steel
- C. Welded Wire Fabric: Welded steel wire fabric, supplied in flat sheets.
- D. Supports for Reinforcement: Provide supports for reinforcement including bolsters, chairs, spacers and other devices for spacing, supporting and fastening reinforcing bars and welded wire fabric in place. Use wire bar type supports complying with CRSI specifications, unless otherwise acceptable. Wood, brick and other devices shall not be acceptable.
 - 1. For slabs-on-grade, use supports with sand plates or horizontal runners where base material will not support chair legs. Concrete block or brick for support of reinforcement for slabs on grade shall be at least 2" wide, 3" long and of proper heights.

2.3 READY MIXED CONCRETE

- A. Cement type: type "1, 3500 psi" (28 day compressive strength)
- B. Admixtures:
 - 1. Air-entrained - 6%
 - 2. Fly Ash – Class C or F, except as modified herein.
 - a. Loss of ignition shall not exceed 4%.
 - b. Fine amount retained shall not exceed 25%.
 - c. Furnish documentation from an independent testing agency that fly-ash proposed for this project conforms to this specification."
- C. Slump: two (2) to three (3) inches.
- D. Minimum 564 lbs. of cement per cubic yard.
- E. No admixtures other than air-entraining without approval of the Architect.
- F. Water: Clean, fresh, potable and free of deleterious amounts of acids, alkalis, organic materials and/or dissolved or suspended materials of any kind.

2.4 CURING MATERIAL

- A. ASTM C171 4 MIL white opaque polyethylene type, or ASTM C309, type 2, white pigmented curing compound.

2.5 EXPANSION JOINT FILLERS

- A. Preformed non-extruding, resilient bituminous type, width as indicated on plans.

SECTION 03 3010
PORTLAND CEMENT CONCRETE

PART 3 - EXECUTION**3.1 INSPECTION**

- A. Verify the earthwork is completed to correct line and grade. Notify the Owner/Architect of any incomplete work by previous contractors.
- B. Check that sub-grade is smooth, compacted and free of frost or excessive moisture.
- C. Do not commence work until conditions are satisfactory.

3.2 WEATHER PROTECTION

- A. Cold weather: When the mean daily air temperature is 40°F. or below, provide suitable protection for concrete work to maintain a minimum concrete temperature of 50°F. for five (5) days (or 70°F. for three (3) days). After the protection period, do not let concrete cool more than 20°F. in each successive day.
- B. Hot weather: Employ suitable means to prevent too rapid drying. Shade fresh concrete as soon as possible without marring surface.
- C. Wet weather: Unless adequate protection is provided, do not place concrete in rain, sleet or snow.

3.3 INSTALLATION

- A. Contractor shall install the first section of sidewalk/slab/foundation as a quality sample in place. Upon approval of sample by Architect, further installation can proceed.
- B. The sub-grade upon which concrete is to be placed shall be prepared by excavation or filling with suitable earth to such depth below the finished grade line, that when tamped or rolled until smooth, firm and hard, the sub-grade will be uniform and at the required depth below finished grade line.
- C. Unsuitable sub-grade soils shall be replaced as directed.
- D. Gravel backfill, when specified in the drawings, shall be constructed to the required depth and thoroughly compacted.
- E. Cast in Place Concrete:
 - 1. Set forms to line and grade
 - 2. Install forms over full length of walk and oil before use.
 - 3. Forms shall be set accurately to line and grade. If the forms are set more than 0.01 foot (3mm) above or below grade or more than 0.01 foot (6mm) from prescribed alignment, they shall be corrected before any concrete is placed.
 - 4. Flexible or curved forms of proper radii shall be used on all curves having a radius of 100 feet or less.
 - 5. Form contraction joints by tooling.
 - 6. Install expansion joint material behind walks at abutment curbs and adjacent structures with expansion joints every 100 feet (30m) or as detailed. Retaining wall shall have expansion joints every 25 feet.

SECTION 03 3010
PORTLAND CEMENT CONCRETE

7. Place top of expansion joint material flush with walk surface, unless noted otherwise on plans.
8. Place reinforcing materials.
9. Place concrete with mechanical vibrators.
10. Consolidate concrete with mechanical vibrators.
11. Round edges of walks and turf anchor at top with finishing tool, $\frac{1}{4}$ " to $\frac{3}{8}$ " radius. 1" radius for retaining wall.
12. Finished exposed walk surfaces with wood float followed by brushing with broom, smooth band of 12", unless otherwise shown on drawings.
13. Apply plastic sheeting or curing material and cure for seven (7) days.
14. Replace sections that pocket water.
15. Do not allow free drop of more than five (5) feet. Use elephant trunk when necessary.

3.4 FIELD QUALITY CONTROL

- A. Slump Tests: Make slump tests whenever concrete is being poured at the direction of the Owner.
- B. Compression Tests: Prepare standard test cylinders during the placing of concrete in accordance with ASTM C31 and ASTM C172. One set (three (3) cylinders) is required for each day's pour.
- C. Maintain two (2) cylinders at 50 to 70°F. and protect from loss of moisture at the job site for a period of not over 48 hours, then deliver to the laboratory for curing and testing at seven (7) and twenty-eight (28) days, respectively. Place third cylinder near the in place concrete and cure completely at the job in the same manner as the in place concrete. Deliver this cylinder to the laboratory for testing at twenty-eight (28) days. Cure and test cylinders in accordance with ASTM C31, C39 and C192. Submit test reports to the Architect in duplicate.

3.5 PROTECTION OF FINISHED SURFACES

- A. All finished surfaces of concrete shall be protected so as to prevent damage. Marking temporary nailing or other damaging use of surfaces will be prohibited.

3.6 PATCHING

- A. Patch to match material, color and texture of surrounding area.
- B. Replace defective work if patching is not acceptable to the Landscape Architect.

3.7 CLEAN UP

- A. The Contractor shall remove excess excavated material from the site of the work. Spread and finish grade topsoil within five (5) feet of pad edge. Topsoiling is incidental to concrete installation. Contractor shall clean up and dispose of rubble and construction debris satisfactory of the Owner and the Landscape Architect.

END OF SECTION 03 3010

SECTION 03 3010
PORTLAND CEMENT CONCRETE

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SECTION 31 1000
SITE PREPARATION**PART 1 - GENERAL****1.1 SUMMARY**

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. The work under this Division consists of furnishing all labor, materials and equipment required for:
 - 1. Synthetic Turf Protection
 - 2. Demolition
 - 3. Aggregate
 - 4. Asphalt
 - 5. Landscape Repair
 - 6. General Clean Up
- C. Bidders shall visit the site before submitting proposals and fully inform themselves as to the job and site conditions and other conditions under which the work of this section must be conducted. Verify themselves with the soil conditions at the site and familiarize themselves with the existing conditions that may be adjusted for this project. Submission of proposals implies that the Bidder has visited the site and is fully aware of these conditions.
- D. A pre-construction conference shall be held on the job site with all intended Contractors and Sub-contractors prior to the start of any work.

PART 2 - PRODUCTS

N/A

PART 3 - EXECUTION**3.1 SURVEY REQUIREMENTS**

- A. The Contractor shall provide all survey work required to locate lines and grades for the construction of this project as herein specified and shown on drawings. The Contractor shall employ a registered engineer or surveyor for this layout.
- B. The Contractor upon entering the site and before any other work is underway, shall establish and set control points as indicated on the drawings and verify all finish grades.
- C. Existing survey as shown on the drawings is for information only and accurate at time taken. Contractor shall verify field conditions and notify the Landscape Architect or Owner before bid date of any discrepancies found in the survey or site conditions.
- D. The Contractor shall provide a complete "as built" survey of the site within the site limits, noting all grades, locations, etc. if final constructed project should vary from bid documents.
- E. All work under this section shall be coordinated with the Landscape Architect so as to verify their understanding of the plans and intended layout.

END OF SECTION 31 1000

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SECTION 32 1124
AGGREGATE BASE COURSE

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Related Sections:
 - 1. Section 31 2000 Earthwork

1.2 SCOPE

- A. The work under this section of the specification shall consist of furnishing all labor, materials and equipment to produce, place, spread, compact and finish to proper grade and cross section all aggregate base courses according to the drawings and specifications.

1.3 SUBMITTALS

- A. Submit to the Landscape Architect a sieve analysis of the proposed stone to be installed.

PART 2 - PRODUCTS

2.1 MATERIALS:

- A. Aggregate base material shall conform to DOT specifications for 21AA 100% crushed limestone and shall be placed and compacted to the minimum depth shown on plans. Crushed concrete, slag, etc. shall not be allowed.

<u>Aggregate Sieve Analysis</u>	<u>Percent Passing</u>
1½"	100
1"	85-100
½"	50-75
No. 8	20-45
No. 200	4-8

PART 3 - EXECUTION

3.1 SUB-GRADE CONSTRUCTION:

- A. The sub-grade shall be so constructed as to have uniform stability for a width at least equal to that of the proposed pavement plus one (1) foot on each side. It shall be brought to an elevation and cross section such that, after being rolled, the surface will be at the required elevation. At the time the sub-grade is prepared, the fill area shall have been constructed to the full width and to at least the elevation of the finished sub-grade.
- B. The material present in the next six (6) inches below the elevation of the sub-grade shall be scarified, mixed and re-compacted, or otherwise treated to produce a uniform condition. Stones over four (4) inches in size shall be removed from the loosened portion of the sub-grade and disposed as directed by the project representative.

SECTION 32 1124
AGGREGATE BASE COURSE

- C. Depressions that develop during the following shall be filled with suitable material, and the rolling shall continue until the sub-grade is uniformly firm, properly shaped and substantially true to grade and cross section. It shall be so maintained until the pavement is place.
- D. Material, other than sand, which will not compact readily under roller shall be removed and replaced with material which will compact readily and that portion of the sub-grade shall be rolled again.
- E. The rolling of the sub-grade shall extend for at least twelve (12) inches outside of each edge of the proposed turf boundaries when possible. Piles or ridges of earth or material that would seriously interfere with the operations of finishing the pavement shall not be left on the shoulders.
- F. During the process of construction sub-grade, the soil shall be maintained in a condition sufficiently moist to facilitate compaction and produce a firm, compact surface.
- G. If, in the preparation of the sub-grade, it becomes necessary to excavate below the elevation of the earth shoulders, ditches or drains shall be provided at frequent intervals to permit ready drainage of surface water from sub-grade to side ditches.
- H. If ruts or other objectionable irregularities form in the sub-grade during construction, the Contractor shall reshape and re-roll the sub-grade before the pavement is laid. The material used for filling ruts or other depressions shall be of such character as to make it equally desirable for sub-grade purposes as the material presented in the sub-grade.
- I. When the sub-grade is being prepared for placement as an aggregate base course, the elevation of the most finished surface, at the time the next layer is placed, shall not vary by more than 0.05 foot above or below the prescribed elevation at any point where measurement is made.

3.2 AGGREGATE BASE COURSE:

- A. Base course construction shall proceed as follows only after the Landscape Architect has approved the sub-grade construction and the gravel tests.
- B. The base shall be constructed in layers of not more than three (3) inches (75mm) compacted thickness when conventional rolling equipment is used.
- C. If vibratory or other approved special equipment is used, the thickness of every compacted layer may be increased to a maximum of eight (8) inches (150mm).
- D. The finished surface of any aggregate base course shall not vary more than 0.02 foot (15mm) from the elevations, grades and cross sections on the drawings.
- E. Compacted stone base dimensions shall be a minimum of 6”.

3.3 COMPACTION REQUIREMENTS:

- A. Sub-grade shall be compacted to not less than ninety-two percent (92%) of maximum density at not less than seventy-five percent (75%) of optimum moisture content.
- B. Aggregate base course shall be compacted to not less than ninety-five percent (95%) of maximum density. Using conventional rolling equipment, moisture content shall not be less than ninety percent (90%) nor more than one hundred-ten percent (110%) of optimum moisture content. Using vibrating equipment, moisture content shall not be less than seventy-five (75%) of optimum moisture content.

SECTION 32 1124
AGGREGATE BASE COURSE

- C. Maximum density shall be determined in accordance with AASHTO Modified Method of Test for the Compaction and Density of Soil, Designation T-180, and the optimum moisture content shall be that corresponding to the maximum density in the above test.

3.4 ROLLERS:

- A. Smooth steel-wheeled rollers shall be self-propelled and have a total weight not less than 8 tons. The compression (driving) roller shall exert a pressure of not less than 250 lbs. per inch width of the roller.
- B. Pneumatic-tire rollers shall have a compacting width of sixty (60) inches (1.5m) or more and shall be capable of varying the weight from 100 to 250 lbs. per inch of rolling width.

END OF SECTION 32 1124

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SECTION 32 1217
PLANT MIX BITUMINOUS ASPHALT PAVEMENT

PART 1 - GENERAL**1.1 GENERAL**

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Related Sections:
 - 1. Section 32 11 24 Aggregate Base Course
- C. Tack coat courses between lifts of new asphalt shall be incidental to the cost of asphalt installation.

1.2 SCOPE

- A. The work under this section of specifications shall include the furnishing of all labor, materials and equipment necessary to produce, place, spread, compact and finish to proper grade and cross section all plant mix bituminous pavement as shown on the drawings and as specified herein.

1.3 DEPARTMENT OF TRANSPORTATION (DOT) SPECIFICATIONS

- A. All work done under this section of the specifications except as amended herein, shall be in accordance with current edition of the Michigan Department of Transportation Standard Specifications for Highway Construction, referred to hereafter as the MDOT Specifications.

1.4 ACCEPTABILITY OF THE WORK

- A. Grade: Grade conformance tests shall be conducted on both the leveling and wearing courses. The entire surface shall have positive drainage, 1% lateral inclination and 0.1% in running direction.
- B. Planarity: After completion of the finish rolling operations on each course, the compacted surface shall be tested with a 10' straightedge. Measurements shall be made perpendicular to and across all mats at a distance not to exceed 25' feet. The maximum allowable planarity deviation within a pass shall be no more than 1/8" in 10' when measured in any direction.
- C. All work shall meet the specifications of the following industry associations:
 - 1. American Sports Builders Association (ASBA)
 - 2. National Federation of State High School Association (NFSHSA)

1.5 PLACEMENT AND COMPACTION

- A. Paving operations shall provide a mat that is smooth, dense and of the proper thickness, slope and planarity. The plant mix bituminous material shall be compacted to 95% of the bulk density as determined by 50 blows-per -side Marshall procedures.
- B. The wearing course shall be placed such that the longitudinal joints of the wearing course are offset from that of the leveling course. Transverse joints shall be off set a minimum of 24".

SECTION 32 1217
PLANT MIX BITUMINOUS ASPHALT PAVEMENT

- C. In placing each succeeding pass after the initial one, the screed of the paver should be set so that it overlaps the preceding pass by 2" and be sufficiently high so that when compacted, a smooth joint is produced. Prior to pinching the joint, the excess material shall be pushed onto the edge of the new pass with a lute. Excess material shall be removed from the pass.
- D. Deficient areas within the base course shall be corrected by sawcutting or milling to a depth equal to the thickness of the mat. Tack coat shall be applied to all edges and the pavement shall be replaced. Skin patching of the wearing course shall only be done with materials acceptable to the surfacing contractor.

PART 2 - MATERIALS

2.1 PLANT MIX

- A. Leveling Course: The bituminous plant mix base course shall meet the requirements of MDOT Specification 7.10 - Plant Mix Bituminous Mixtures. The specific mix and cross sections are as follows.
 - 1. Thickness: Not less than 1 1/2" inches when compacted
 - 2. Liquid Asphalt or Bitumen: 5% ~ 7% by weight
 - 3. Asphalt Penetration or Type: (PG-58-28)
 - 4. Aggregate Type: Crushed limestone or natural aggregate. Slag is unacceptable unless other materials cannot be obtained. Only blast furnace slag is acceptable in this case.
 - 5. MDOT Mix: 1100 L - 20AA

<u>Aggregate Sieve Analysis</u>	<u>Percent Passing</u>
3/4"	100
1/2"	90-100
3/8"	65-95
No. 8	45-70
No. 30	20-45
No. 200	3-10

- B. Wearing Course: The bituminous plant mix base course shall meet the requirements of MDOT Specification 7.10 - Plant Mix Bituminous Mixtures. The specific mix and cross sections are as follows.
 - 1. Thickness: Not less than 1 1/2" inches when compacted
 - 2. Liquid Asphalt/Bitumen: 5% ~ 9% by weight ($\pm 1\frac{1}{2}\%$)
 - 3. Asphalt Penetration or Type: (PG-58-28)
 - 4. Aggregate Type: Crushed limestone or natural aggregate. Slag is unacceptable unless other materials cannot be obtained. Only blast furnace slag is acceptable in this case. No R.A.P. material permitted.

SECTION 32 1217
 PLANT MIX BITUMINOUS ASPHALT PAVEMENT

5. MDOT Mix: 1100 T - 36-A

<u>Aggregate Screen Size</u>	<u>Percent Passing</u>
1/2"	100
3/8"	92-100
No. 4	65-90
No. 8	55-75
No. 30	20-50
No. 200	4-10
Percent Crushed	60

- C. The Contractor shall submit to the Landscape Architect a job mix formula, including the exact proportions of bituminous material and mineral filler.
- D. No bituminous surface shall be placed prior to approval of the job mix formula by the Engineer/Landscape Architect.

PART 3 - EXECUTION

3.1 LIMITATIONS OF OPERATIONS

- A. Bituminous tack coat shall be applied only when surface and weather conditions are favorable.
- B. Bituminous plant mix shall be placed only during daylight hours when the temperature of a shaded portion of aggregate the base is 40°F. or higher and when the surface upon which it is to be constructed is dry.

3.2 SUB-GRADE AND BASE COURSE PREPARATION

- A. Prepare sub-grade and aggregate base course in accordance with these specifications. The subgrade shall be proof compacted loaded rubber tired equipment and witnessed by a representative of the design team. Areas that exhibit significant deflection or pumping shall be removed and replaced with compacted granular material. Aggregate base course shall be compacted to 95% of the maximum dry density as determined by ASTM D698 (AASHTO T99) procedures.
- B. At the time of applying bituminous material, the sub-grade surface shall be dry and clean, and all necessary repairs or reconditioning work shall have been completed.
- C. All objectionable foreign matter dirt, debris, etc. on the asphalt surface shall be removed and disposed by the Contractor.

3.3 BITUMINOUS TACK COAT

- A. Bituminous tack coat shall be applied at a rate of 0.10 gallons per square yard to existing bituminous surfaces and to successive plant mix surfaces. The tack coat may be waived by the Landscape Architect where successive plant mix courses are to be placed during one day's operation.

SECTION 32 1217
PLANT MIX BITUMINOUS ASPHALT PAVEMENT

- B. The bituminous tack coat shall be applied uniformly to the clean, dry surface with a pressure distributor. Pools of bituminous material shall not be allowed to remain on the surface. The tack coat material shall be applied far enough ahead of the paving operation to allow it to cure before placing the subsequent plant mix bituminous material.

3.4 TEMPERATURE

- A. The temperature of bituminous material at the time of application shall be as approved by the Landscape Architect within the limits specified below.

SS-1h	105-180 degrees F.
Plant Mix	270-330 degrees F.

- B. The Landscape Architect may reject any load of plant mix bituminous material whose temperature is outside the temperature limits identified in 3.4A

3.5 BITUMINOUS PAVING

- A. After completion and acceptance of the stone base course, install 1½" of leveling course and 1½" of wearing asphalt materials.
- B. Installation shall be in two (2) separate courses of 1½" and 1½" after compaction. Each asphalt lift shall be installed using automated laser grade control, self-propelled paving equipment, with dual-slope capabilities.
- C. The plant mix bituminous material shall be compacted to 95% of the bulk density as determined by 50 blows-per-side Marshall procedures.
- D. Plant mix shall be placed and compacted in accordance with 1990 MDOT Specification Section 4.00 - Plant Mix Bituminous Pavements. The initial contact with the hot mixture leveling course shall be made by the power or driving roll of the steel roller, weighing not less than six (6) tons. The finish surface of the leveling course shall not vary more than 1/4" in 10 feet when measured in any direction. The finish surface of the wearing course shall not vary more than 1/8" in 10 feet when measured in any direction.

3.6 TESTS AND SAMPLES

- A. At the direction of the Landscape Architect, the Contractor shall cut samples from any course or finished pavement not to exceed five (5) in number from any days run for tests of density and composition. These samples shall be taken at points designated by the Landscape Architect by sawing with a power driven masonry saw or diamond core drill. Samples shall be sufficiently large to meet the needs of the testing laboratory.
- B. The Owner will hire an independent testing laboratory to perform field density testing with a nuclear density gage to verify that the specified density requirements are being met.
- C. The surface from which samples are taken shall be restored by the Contractor not later than the next succeeding day of plant operation.
- D. All test results will be available to the Contractor.

SECTION 32 1217
PLANT MIX BITUMINOUS ASPHALT PAVEMENT

- E. All testing samples will be paid for in accordance with these specifications.
- F. Asphalt paving contractor shall power-wash asphalt prior to installation of tennis court or all weather track surface. Contractor shall flood the asphalt to identify all potential "Bird Bath" areas prior to surface application. Bird bath areas will be repaired as directed by the Landscape Architect.

END OF SECTION 32 1217

SECTION 32 1217
PLANT MIX BITUMINOUS ASPHALT PAVEMENT

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SECTION 32 1724
TRACK MARKINGS**PART 1 - GENERAL****1.1 SUMMERY**

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Verify all-weather surface dimensions on plans, details, and field prior to track surface installation.

1.2 SCOPE

- A. The work under this section of the specifications shall consist of furnishing all labor, materials, equipment, transportation, and services necessary to complete the striping of track and field event markings.
- B. The track shall be marked for 8-42" lanes and include all event markings as recommended by National Federation of State High School Athletic Association and the Michigan High School Athletic Association.

1.3 SUBMITTALS

- A. Submit to the Landscape Architect upon notification of award of project, a drawing showing location of all proposed track markings and a chart with the appropriate colors to be used.
- B. Submit product literature for paint for prior approval from Landscape Architect. The paint must be recommended by the manufacturer of track surface.
- C. Upon completion, supply the Owner with all necessary as-built drawings showing color coded markings of each event.
- D. Upon completion, a letter of certification attesting to the accuracy of the markings shall be submitted by the Professional Engineer or Land Surveyor in charge of the layout. The letter shall be signed and sealed by the person or persons in charge of the layout indicating the state of registration, number and name.

1.4 ADDITIONAL MARKINGS:

- A. The following Junior High School Events will also be installed:
 - 1. 55 Meter Low Hurdles
 - 2. 300 Meter Low Hurdles
 - 3. 75 Meter High Hurdles

PART 2 - PRODUCTS**2.1 PAINT**

- A. Paint shall be that material as recommended by the manufacturer of the track surface.
- B. No thinners shall be used.

PART 3 - EXECUTION

SECTION 32 1724
TRACK MARKINGS

3.1 COMPUTATIONS

- A. Verify the locations of proposed events with the Owner.
- B. Calculations shall be made to the nearest 1/100,000th of a foot.
- C. Calculations of the angle shall be made to the nearest one second.
- D. Calculations shall be submitted to the Landscape Architect prior to the painting.
- E. Calculations shall be made by or certified by the engineer or surveyor completing the work.
- F. All measurements and tolerances shall conform with those recommended by the N.F.S.H.S.A. for track and field event layout.

3.2 LAYOUT

- A. Lines and markings shall be made by a competent, experienced and fully qualified Professional Engineer or Registered Land Surveyor.
 - 1. Locate and confirm both new radius points.
 - 2. Establish and set all necessary control points.
 - 3. Measurements shall be made on the track to the nearest 1/100th of a foot.
 - 4. Angles shall be set by using a transit or theodolite capable of reading direct to 20 seconds.
 - 5. The markings on the curve may also be set by using the chord length method.
 - 6. Measurements shall be made with an engineering steel tape in engineering scale.
 - 7. All markings shall be clearly identified and color coded for the painter to identify.

3.3 TRACK MARKINGS

- A. All markings shall conform with those recommended by the N.F.S.H.S.A. for track and field event layout.
 - 1. Lanes and lines shall be white 2" wide markings.
 - 2. Start and finish lines shall be 2" wide lines and shall be clearly marked with the start of said events.
 - 3. Exchange zones shall be indicated with triangles with a 41" base and 24" high with the base as the limits of the zone.
 - 4. Acceleration marks shall be a 2" wide by 4" long dash marked clearly in the center of the lane.
 - 5. Hurdle marks shall be 2" x 2" tic marks on the lane line on both sides of the lane.
 - 6. Lane numbers shall be not less than 42" high and located as directed by the Landscape Architect in four (4) locations. Numbers shall be in two (2) colors (shadowed background as selected by the Owner).
 - 7. Event identification shall be 4" letters stenciled below and to the right of each lane and mark.
 - 8. Scratch lines for the jumping events shall be 8" wide.
 - 9. All symbols shall have the proper color code for the event.
 - 10. Check marks for the pole vault event shall be at 12" intervals. Check mark dimensions shall be 1" x 6".
 - 11. Discus pad and shot put pad dimension boundaries shall be a 2" painted circle. See details for proper dimensions.

INSTALLATION

SECTION 32 1724
TRACK MARKINGS

- A. No painting shall be performed when the velocity of the wind exceeds twelve miles per hour (12mph), unless the spray equipment is equipped with the proper air curtains.

****Contact the Athletic Department and verify all markings prior to installation.****

SECTION 32 1724
 TRACK MARKINGS
RED SURFACE

All Lanes
 Common Finish
 Common Exchange Zone

Yellow-White Alleys
 White
 Green

EVENT	GRAPHIC SYMBOL	COLOR
70 M DASH	Start Line Hurdle Location	White Black
100 M DASH	Start Line	White
200 M DASH	Start Line (1 turn stagger)	White
400 M DASH	Start Line (2 turn stagger)	White
800 M RUN	Alleys	White
1600 M RUN	Alley Start	White
3200 M RUN	Alley Start	White
100 M HURDLES	Start Line Hurdle Location	White Yellow
110 M HIGH HURDLES	Start Line Hurdle Location	White Blue
300 M INT/LOW HURDLES	Start Line Hurdle location	White Green
400 M RELAY 4 x 100	Start Line Exchange Zone	White Yellow △
800 M RELAY 4 x 200	Start Line 1st-exchange zone 2nd-exchange zone 3rd-exchange zone	Black Black △ Black △ Yellow △
1600 M RELAY 4 x 400	Start Line 1st-exchange zone 2nd-exchange zone 3rd-exchange zone	Blue Blue △ Blue or Blue/Green△ Blue or Blue/Green△
3200 M RELAY 4 x 800	Waterfall Start Common Exchange Zone	White Blue or Blue/Green △
55 M LOW HURDLES (Junior High Event)	Start Line Hurdle Location	White Black
200 M INT/LOW HURDLES (Junior High Event)	Start Line Hurdle Location	White Green
300 M LOW HURDLES (Not Used In Michigan)	Start Line Hurdle Location	White Yellow
LANE NUMBERS	Primary Number Shadow	White Black

END OF SECTION 32 1724

SECTION 32 1826
ALL-WEATHER SYNTHETIC SURFACE

PART 1 - GENERAL**1.1 SUMMERY**

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Related Sections:
 - 1. Section 32 1217 Plant Mix Bituminous
 - 2. Section 32 1724 Track Markings

1.2 SCOPE OF WORK

- A. The work under this section of the specification shall consist of furnishing all labor, materials and equipment to produce, place, spread, and finish to proper grade and cross section, an all-weather synthetic track surface.

1.3 QUALITY ASSURANCE

- A. Reference Standards
 - 1. American Society for Testing and Materials (ASTM):
 - a. F 2157-02 Synthetic Surfaced Running Tracks
- B. The manufacturer must have ten (10) uninterrupted years of experience compounding polyurethane for athletic surfacing under the same corporation name. The installer must have ten (10) years experience installing the specified system with the same polyurethane for a minimum of ten (10) years. This is applicable for the polyurethane alternates only.
- C. The synthetic track surface shall be installed by authorized applicators of the approved manufacturer, acceptable to the Owner. The Owner reserves the right to final acceptance with regards to any installers. The manufacturer must attest to the work previously completed by each person installing the work. The Installation Contractor shall be solely responsible for the following:
 - 1. Protection of the surface until it has fully cured.
 - 2. Removal of all excess rubber crumb and binder on the inside and outside edges.
 - 3. All material used shall be handled, shipped and installed as outlined in the Material Safety Data Sheets and according to current O.A.S.H.A. Standards.
 - 4. Disposal of all products as per current EPA Regulations.
 - 5. Inspection and acceptance of the asphalt surface, prior to manning the site.
 - 6. Verify all-weather surface dimensions on plans, details, and field prior to track surface installation.
 - 7. Submission of an affidavit acknowledging each crew member, to be assigned to this project has read the Material Safety Data Sheets and is familiar with all safety procedures and the proper handling of all materials.
 - 8. Submission of the Material Safety Data Sheets prior to the material arrival. Submission shall be in triplicate and the job superintendent shall maintain a copy on the site at all times.
- D. Installer must be a member of the American Sports Builders Association (ASBA).
- E. Base Bid shall be Black and not be less than 13mm total thickness. This depth shall be measured from the top of asphalt to the top of the continuous surface. (ie. to the top of the binder, not to the top of the projecting rubber corners)

SECTION 32 1826
ALL-WEATHER SYNTHETIC SURFACE

1.4 SUBMITTALS

- A. Each Bidder shall submit one (1) sample, not less than 3" X 3" with each surface being bid. All samples shall represent the exact surface being bid. These samples will be used to determine the most qualified surface.
- B. Each Bidder shall submit a complete installation specification with the bid and any items that are regarded as technical guidelines for the installation of the surface that varies from the specification, include maintenance instructions and recommendations.
- C. Each Bidder are required to submit a list of facilities that have been installed under this product name. List to include four (4) to five (5) year old surface installations with contact person, and telephone number.
- D. Contractor must submit copies, in triplicate, of the Material Data Safety Sheets (MSDS) for all products to be used, before materials are delivered to the site.

****Contractors must identify in bid documents cost analysis and crack repair allowance****

1.5 TESTING

- A. The Owner shall reserve the right to submit the surface to the following tests to determine the surface performance. Any section of the track that is found to be unacceptable by these standards shall be removed and replaced in a proper workmanship-like manner.
- B. The sample size shall be approximately one (1) square foot. The samples shall be taken for testing and not replaced. A sample shall be taken for every four thousand (4,000) square feet. If the surface is acceptable, the Owner will accept the responsibility of the testing cost and the replacement cost for surface areas.
- C. The above performance characteristics shall be a part of the overall performance of the surface. The data that shall be obtained from the above testing will be the factors that will determine the final acceptance of the surface if the above tests are required.
- D. The installation Contractor will be responsible for all tests that fail the above characteristics. The Owner reserves the right to submit the surface to the above tests at any time during the length of the guarantee. Consideration will be given to the time and use of the surface.

PART 2 - PRODUCTS

2.1 ACCEPTABLE SYSTEMS FOR POLYURETHANE BOUND, BLACK EPDM CRUMB BASE MAT WITH RED STRUCTURAL SPRAY:

BSS-100	by:	Benyon Sports Surfaces Hunt Valley, MD 21030 (410) 771-9473
POLYMAT SS:	by:	Fisher Tracks, Inc. Boone, IA 50036 (800) 432-3191
GTS SELECT SS	by:	Goddard Coatings

SECTION 32 1826
ALL-WEATHER SYNTHETIC SURFACE

- H. The Pot Life of the base mat shall not be less than forty-five (45) minutes from the time of the completed mix. All trowel work shall be done within this time. Any areas that are rough, high, uneven or open in texture shall be sanded and filled prior to any finish work.
- I. All joint work shall be flush with the adjacent mat and shall have edges primed with the binder material if the adjoining mat has cured or set.
- J. The contractor shall install the all-weather surface at the elevation required per manufacturers installation guide for specified field event equipment.

3.2 TOP SURFACE

- A. This work shall consist of a blend of pigmented polyurethane and colored Ethylene Propylene Diene Monomer (EPDM) granules. The top surface shall be applied in multiple coats of two or more over the black base mat at the rate of 1.8 lbs. per square yard per coat (minimum 2-coat application).
- B. Granules shall be an ambient ground EPDM rubber crumb having a peroxide cure. The size of the material shall not be less than 0.5 mm and not more than 1.5 mm. The mixture shall include a fine content (dust) not to exceed ten percent (10%).
- C. Binder shall be pigmented polyurethane mixture of Methylene Diphenylene Isocyanide. The pigmented binder shall consist of a two (2) part mixture. The ratio of Polyol to binder shall be installed in accordance with the manufacturer's specifications. The catalyst shall be added at the mixing site, if necessary.
- D. The material ratio of the top surface shall consist of sixty percent (60%) binder (Polyol-binder) and forty percent (40%) EPDM granules. The spray operation shall be performed when the average wind velocity does not exceed five (5) to seven (7) mph. This operation shall be stopped immediately at this excess.
- E. The top surface materials shall contain a clear aliphatic polyurethane of not less than twenty-five percent (25%) of the binder. The material shall be included in all colored structural spray applications that are not red in color.
- F. The Owner shall reserve the right to have an anemometer on the site at this time. All work shall be protected from over spray outside the limits of the asphalt base.
- G. Final color and appearance shall be consistent along with the texture of the surface at all angles.
- H. No flooding or excess material over two (2) square feet shall be accepted. Excessive flooding constitutes poor workmanship and shall be reviewed and corrections determined at that time.

END OF SECTION 32 1826

SECTION 32 18 28
LONG JUMP PIT SAND

PART 1 - GENERAL

1.1 SUMMARY:

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.

1.2 Scope:

- A. The work under this section of the specification shall consist of furnishing all labor, materials and equipment to produce, place, spread, compact and finish to proper grade and cross section.

1.3 SUBMITTALS:

- A. Submit to the Landscape Architect a sieve analysis of the proposed sand material to be installed.

PART 2 - PRODUCTS

2.1 SAND:

- A. Sand material shall conform to DOT specifications for 2NS and 2MS categories and shall be placed to the minimum depth shown on plans.

- 1. Contractor to mechanically mix the following blend of materials by volume:
 - 40% 2NS Sand
 - 60% 2MS Sand

PART 3 - EXECUTION

3.1 INSTALLATION:

- A. Place material in pit to a depth not less than 6".
- B. Crown sand in the center of pit (+3") to allow for settlement.
- C. Material, other than sand, which will not compact readily under roller, shall be removed and replaced with material which will compact readily and that portion of the sub-grade shall be rolled again.

END OF SECTION 32 1828

SECTION 32 18 28
LONG JUMP PIT SAND

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SECTION 33 4416
POLYMER CONCRETE TROUGH DRAIN SYSTEM

PART 1 - GENERAL**1.1 SUMMARY**

- A. This Section is a part of the entire set of Contract Documents and shall be coordinated with the applicable provisions of the other parts.
- B. Related Sections:
1. Section 03 3010 Portland Cement Concrete
 2. Section 33 4413 Manholes, Catch Basins and Similar Structures
 3. Section 33 4600 Subdrainage Systems

1.2 SCOPE

- A. The work under this section of the specifications shall include all materials, labor and equipment necessary to install a pre-cast, chemical-resistant polyester concrete trough drainage systems as specified, and as shown on the Contract Documents.

1.3 QUALITY ASSURANCE

- A. Manufacturer shall certify that the polymer concrete used meets the strength values of Section 2.1 B.

1.4 SUBMITTALS

- A. Manufacturer will submit, when required, shop drawings showing a schematic plan of the total drainage system listing all parts being provided with exact center-line dimensions suitable for installation. Copies of the manufacturer's recommended method of installation, and assembly shall be submitted for review. Contractor shall obtain arc radius units where they apply.
- B. Manufacturer shall submit a list of projects installed locally during the past five years.

PART 2 - PRODUCTS**2.1 TROUGH DRAIN**

- A. Manufacturer shall be one of the following or (approved equal):

<u>Manufacturer:</u>	<u>Model:</u>
1. ACO Polymer Products, Inc. Chagrin Falls, Ohio (216) 247-2033	System 3000
2. SportsField Specialities Delhi, NY (888) 975-3343	Sport 3000
3. SportsEdge Troutman, NC (800) 334-6057	Pro "S" Trench Drain

SECTION 33 4416
POLYMER CONCRETE TROUGH DRAIN SYSTEM

- B. Product shall be a one piece polymer concrete grated drain incorporating anti-slip, ADA compatible locking grate. Trench drain channels shall be pre-cast, and interlocking, incorporating either polyester or vinyl ester resins and formulated aggregate.

Overall Width	-	6.1 in
Internal Width	-	4.0 in
Unit Depth	-	6.0 in (nominal)
Compressive Strength	-	14,000 - 14,500 PSI
Flexural Strength	-	3,600 - 4,500 PSI
Tensile Strength	-	1,500 PSI

PART 3 - EXECUTION

3.1 SITE PREPARATION

- A. Excavate the area for channel placement wide and deep enough to accommodate the channel size and a minimum of 4 inch concrete encasement (channels require a minimum of 4 inches of concrete support and top of grate must be evenly aligned to the surface of the surrounding slab) on both sides as well as underneath the channel.

3.2 INSTALLATION

- A. Channel sections are installed from the outlet end of the system, working from either catch basins or other outlets. Insert channels to interlock ends. Channel sections shall be placed on brick, rebar basket, or low slump concrete slurry, to obtain correct finished elevation. Cutting will be made if required, by masonry or concrete saw. Saw cut relief joints at every third (3rd) section channel (± 10). Install drain system in strict accordance with manufacturer's recommendations and shop drawings.

3.3 CONCRETE PLACEMENT

- A. Protect the top of the channel against the concrete or other abutting materials during setting. Place concrete in a manner that will not dislodge the channels. Concrete shall be at finished level with the top of the grate to ensure efficient drainage and adequate grate edge protection.

3.4 FINISHING AND CLEAN-UP

- A. Following final set of concrete, remove channel protection, if used.

END OF SECTION 33 4416