



Division of Finance and Business Operations

**Wayne State University
Tierney Alumni House Cabling
WSU Project Number 505-259171
Prevailing Wage Work**

FOR:

Board of Governors
Wayne State University
Detroit, Michigan

Owner's Agent:

Valerie Kreher, Senior Buyer
WSU – Procurement & Strategic Sourcing
5700 Cass, Suite 4200
Detroit, Michigan 48202
313-577-3720 / 313-577-3747 fax
rfpteam2@wayne.edu and copy
leiann.day@wayne.edu@wayne.edu

Owner's Representative:

Mark Gibbons, Project Manager
Facilities Planning & Management
Design & Construction Services
5454 Cass
Wayne State University
Detroit, Michigan 48202

Consultant:

Hamilton Anderson
1435 Randolph Street
Suite 200
Detroit, Mi. 48226

January 5, 2016

TABLE OF CONTENTS

| | |
|-------------------|---------|
| Title Page | 00001-1 |
| Table of Contents | 00002-1 |

Division 0 - Bidding Requirements, Contract Forms, and Conditions of the Contract

| | | |
|-------|--|-----------------------|
| 00005 | Information for Bidders | 00005-1 thru 00005-2 |
| 00100 | Instructions to Bidders | 00100-1 thru 00100-5 |
| 00250 | Notice of Pre-Bid Conference | 00250-1 thru 00250-2 |
| 00300 | Form of Proposal & Qualification Statement | 00300-1 thru 00300-7 |
| 00410 | Prevailing Wage Rate Schedule | 00410-1 thru 00410-3 |
| 00420 | KPI Reporting | 00420-1 thru 00420-3 |
| 00430 | Payment Package Document Requirements | 00430-1 |
| 00440 | Contractor's Performance Evaluation | 00440-1 |
| 00500 | Agreement between Contractor and Owner for Construction | 00500-1 thru 00500-9 |
| 00510 | Form of Guarantee | 00510-1 |
| 00700 | General Conditions (A.I.A. A-201) | 00700-1 |
| 00800 | WSU Supplementary General Conditions of the Contract for Construction | 00800-1 thru 00800-12 |
| 00850 | Drawings | 00850-1 |

Division 1 - General Requirements

| | | |
|-------|--|----------------------|
| 01000 | General Requirements | 01000-1 thru 01000-9 |
| 01010 | Summary of Work (Includes Scope of Work) | 01010-1 |

INFORMATION FOR BIDDERS

OWNER: Board of Governors
Wayne State University

PROJECT: Tierney Alumni House Cabling
Project No. 505-259171

LOCATION: Wayne State University
5510 Woodward Ave., Detroit, MI. 48201
Detroit, Michigan 48202

OWNER'S AGENT: Valerie Kreher, Senior Buyer
WSU – Procurement & Strategic Sourcing
5700 Cass, Suite 4200
Detroit, Michigan 48202
313-577-3720 / 313-577-3747 fax
rfpteam2@wayne.edu & copy leiann.day@wayne.edu@wayne.edu

OWNER'S REPRESENTATIVE: Mark Gibbons, Project Manager
Facilities Planning & Management
Design & Construction Services
Wayne State University
5454 Cass Avenue
Detroit, Michigan 48202

Architect: Hamilton Anderson
1435 Randolph Street
Suite 200
Detroit, Mi. 48226

SPECIAL NOTE: Right to reject any and all proposals, either in whole or in part and to waive any irregularities therein is reserved by the Owner.

BIDS ADVERTISED: January 5, 2016

BIDDING: Bidding documents may be obtained by vendors from the University Purchasing Web Site at http://www.forms.procurement.wayne.edu/Adv_bid/Adv_bid.html beginning **January 5, 2016**. When visiting the Web Site, click on the "Construction" link in green. Copies of the RFP will not be available at the pre-proposal meeting.

MANDATORY Pre-Bid Conference: 1:00 pm, local time, January 12, 2016 to be held at Wayne State University – 5454 Cass, Conference Room 3, Detroit MI, 48202. Late Arrivals may not be permitted to submit bids.

OPTIONAL Second Walk Through: (if needed) To be determined at the conclusion of the pre-bid conference, by those in attendance.

DUE DATE FOR QUESTIONS: Due Date for questions shall be **January 15, 2016 at 12:00 Noon**. All questions must be reduced to writing and emailed to the attention of Valerie Kreher, Senior Buyer at rfpteam2@wayne.edu, copy to Leiann Day, Procurement Analyst at: leiann.day@wayne.edu@wayne.edu.

Bids Due: Sealed proposals for lump-sum General Contract will be received at the office of the Procurement & Strategic Sourcing located at 5700 Cass Avenue, Suite 4200, Detroit, MI 48202 on **January 22, 2016**, until 2:00 p.m. (local time).

No public bid opening will be held.

Bid Qualification Meeting: Bidders must be available for bid prequalification meeting the day following the bid

opening. The lowest qualified bidder will be contacted and requested to meet with Facilities Planning & Management at their office located at 5454 Cass Avenue, Detroit, MI 48202. During the prequalification, the Vendor must provide a Project Schedule and a Schedule of Values, including a list of Contractor's suppliers, subcontractors and other qualifications.

An unsigned contract will be given to the successful Contractor at the conclusion of the Pre Award meeting, if all aspects of the bid are in order. The Contractor has 5 business days to return the contract to the Project Manager for University counter signature. The contractor must also submit a Performance Bond as outlined above and a Certificate of Insurance in the same 5 business day period. In the event the Contractor fails to return the documents in this 5 day period, the University reserves the right to award the contract to the next most responsive bidder.

All available information pertaining to this project will be posted to the Purchasing web site at

http://www.forms.procurement.wayne.edu/Adv_bid/Adv_bid.html.

Information that is not posted to the website is not available/not known

INSTRUCTIONS TO BIDDERS

OWNER: Board of Governors
Wayne State University

PROJECT: Tierney Alumni House Cabling
Project No. 505-259171

LOCATION: Wayne State University
5510 Woodward Ave., Detroit, MI. 48201,
Detroit, Michigan 48202

OWNER'S AGENT: Valerie Kreher, Senior Buyer
WSU – Procurement & Strategic Sourcing
5700 Cass, Suite 4200
Detroit, Michigan 48202
313-577-3720 / 313-577-3747 fax
rfpteam2@wayne.edu & copy leiann.day@wayne.edu@wayne.edu

1. PROPOSALS

- A. The Purchasing Agent will receive sealed Proposals for the work as herein set forth at the place and until the time as stated in the "Information for Bidders", a copy of which is bound herewith in these specifications. **No public bid opening will be held.**
- B. Proposals shall be for a **lump-sum General Contract for the entire work of the Project as provided in the Form of Proposal.**
- C. Proposals shall be submitted in duplicate on forms furnished with the Bidding documents. The forms must be fully filled out in ink or typewritten with the signature in longhand, and the completed forms shall be without alterations, interlineations, or erasures. Forms shall contain no recapitulations of the work to be done. Each proposal shall be delivered in an opaque sealed envelope, marked **"PROPOSAL"** AND SHALL BEAR THE NAME OF THE PROJECT AND THE NAME OF THE BIDDER. Proposals submitted by telephone or telegraph will not be accepted. Modifications by telephone or telegraph to previously submitted proposals will not be accepted.
- D. (*revised 5-29-2009*) All base bids must be conforming to the detailed specifications and drawings provided by the University, including any Addenda issued. Voluntary Alternates will only be considered if the Contractor has also submitted a conforming base bid. Any stipulation of voluntary alternates or qualifications contrary to the Contract requirements made by the Bidder in or accompanying his proposal as a condition for the acceptance of the Contract will not be considered in the award of the Contract and will cause the rejection of the entire Proposal.
- E. **The competency and responsibility of Bidders will be considered in making the award. The Owner does not obligate himself to accept the lowest or any other bids. The Owner reserves the right to reject any and all bids and to waive any informalities in the Proposals.**

2. PROPOSAL GUARANTEE (revised 3-22-2012)

- A. A certified check or bank draft payable to the Owner, or satisfactory Bid Bond executed by the Bidder and Surety Company, in an amount equal to not less than five percent (5%) of the maximum proposal amount shall be submitted with each Proposal, which amount may be forfeited to the Board of Governors, Wayne State University, if the successful Bidder refuses to enter into a Contract within ninety (90) days from receipt of Proposals.
- B. Bond must be issued by a Surety Company with an "A rating as denoted in the AM Best Key Rating Guide"

- C. The bid deposit of all bidders except the lowest three will be returned within three (3) days after the bids are opened. After the formal Contract and bonds are approved, the bid deposit will be returned to the lowest three bidders, except when forfeited.
- D. Bid bonds shall be accompanied by a Power of Attorney authorizing the signer of the bond to do so on behalf of the Surety Company.
- E. Withdrawal of Proposals is prohibited for a period of ninety (90) days after the actual date of opening thereof.

3. CONTRACT SECURITY (revised 3-22-2012)

- A. The successful Bidder will be required to furnish a Performance Bond and Labor and Material Payment bond in an amount equal to 100% of the contract award amount, and include such cost in the Proposal, complying with the laws of the State of Michigan. The graduated formula no longer applies.
- B. Performance Bond and Labor and Material Payment Bond shall be from a surety company acceptable to the Owner and made payable as follows:
 - (1) A bond for 100% of the contract award amount to the Board of Governors of Wayne State University, and guaranteeing the payment of all subcontractors and all indebtedness incurred for labor, materials, or any cause whatsoever on account of the Contractor in accordance with the laws of the State of Michigan relating to such bonds.
 - (2) A bond for 100% of the contract award amount to the Board of Governors of Wayne State University to guarantee and insure the completion of work according to the Contract.
- C. The only acceptable Performance Bond shall be the AIA A312 – 2010.
- D. Bond must be issued by a Surety Company with an “A rating as denoted in the AM Best Key Rating Guide”.

4. BOND CLARIFICATION

For bids below \$50,000.00,

- A. Bid bond will not be required.
- B. Performance Bond will not be required.

5. INSPECTION

- A. Before submitting his Proposal, each Bidder shall be held to have visited the site of the proposed work and to have familiarized himself as to all existing conditions affecting the execution of the work in accordance with the Contract Documents. No allowance or extra consideration on behalf of the Contractor will subsequently be made by reason of his failure to observe the Conditions or on behalf of any subcontractor for the same reason.

6. EXPLANATION TO BIDDERS AND ADDENDA

- A. Neither the Owner nor Representative nor Purchasing Agent will give verbal answers to any inquiries regarding the meaning of drawings and specifications, and any verbal statement regarding same by any person, previous to the award, shall be unauthoritative.
- B. Any explanation desired by Bidders must be requested of the Purchasing Agent in writing, and if

explanation is necessary, a reply will be made in the form of an Addendum, a copy of which will be forwarded to each Bidder registered on the Bidders' List maintained by Procurement & Strategic Sourcing.

- C. All addenda issued to Bidders prior to date of receipt of Proposals shall become a part of these Specifications, and all proposals are to include the work therein described.

7. INTERPRETATION OF CONTRACT DOCUMENTS

- A. If any person contemplating submitting a bid for the proposed Contract is in doubt as to the true meaning of any part of the drawings, specifications, or other Contract Documents, he may submit to the Purchasing Agent, a written request for an interpretation thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the Contract Documents will be made by an addendum duly issued. A copy of such addendum will be mailed and delivered to each registered Bidder. Each proposal submitted shall list all addenda, by numbers, which have been received prior to the time scheduled for receipt of proposal.

8. SUBSTITUTION OF MATERIALS AND EQUIPMENT*

- A. Whenever a material, article or piece of equipment is identified on the Drawings or in the Specifications by reference to manufacturers' or vendors' names, trade names, catalog numbers, or the like, it is so identified for the purpose of establishing a standard, and any material, article, or piece of equipment of other manufacturers or vendors which will perform adequately the duties imposed by the general design will be considered equally acceptable provided that the material, article, or piece of equipment so proposed is, in the opinion of the Architect, of equal substance, appearance and function. It shall not be purchased or installed by the Contractor without the Architect's written approval.

9. TAXES

- A. The Bidder shall include in his lump sum proposal and make payment of all Federal, State, County and Municipal taxes, including Michigan State Sales and Use Taxes, now in force or which may be enacted during the progress and completion of the work covered.

10. REQUIREMENTS FOR SIGNING PROPOSALS AND CONTRACTS

- A. The following requirements must be observed in the signing of proposals that are submitted:
- (1) Proposals that are not signed by individuals making them shall have attached thereto a Power of Attorney, evidencing the authority to sign the Proposal in the name of the person for whom it is signed.
 - (2) Proposals that are signed for partnership shall be signed by all of the partners or by an Attorney-in-Fact. If signed by an Attorney-in-Fact, there must be attached to the Proposal a Power of Attorney evidencing authority to sign the Proposal, executed by the partners.
 - (3) Proposals that are signed for a corporation shall have the correct corporate name thereof and the signature of the President or other authorized officer of the corporation, manually written in the line of the Form of Proposal following the words "signed by". If such a proposal is signed by an official other than the President of the Corporation, a certified copy of resolution of the Board of Directors, evidencing the authority of such official to sign the bid, shall be attached to it. Such proposal shall also bear the attesting signature of the Secretary of the Corporation and the impression of the corporate seal.

11. QUALIFICATIONS OF BIDDERS

- A. The Owner may request each of the three (3) low bidders to submit information necessary to satisfy the Owner that the Bidder is adequately prepared to fulfill the Contract. Such information may include past performance records, list of available personnel, plant and equipment, description of work that

will be done simultaneously with the Owner's Project, financial statement, or any other pertinent information. This information and such other information as may be requested will be used in determining whether a Bidder is qualified to perform the work required and is responsible and reliable.

12. SPECIAL REQUIREMENTS

- A. The attention of all Bidders is called to the General Conditions, Supplementary General Conditions, and Special Conditions, of which all are a part of the Specifications covering all work, including Subcontracts, materials, etc. Special attention is called to those portions dealing with Labor Standards, including wages, fringe benefits, Equal Employment Opportunities, and Liquidated Damages.
- B. Prior to award of the project, the apparent low bidder will be required to produce a schedule of values which will include the proposed subcontractors for each division of work and whether the subcontractor is signatory or non-signatory. A contract will not be issued to the apparent low bidder until this document is provided. A contractor will have one week to produce this document. If the required document is not received within this time, the bidder will be disqualified.

13. NOTICE OF AWARD/ACCEPTANCE OF BID PROPOSAL (revised 12-15-2009)

- A. The Proposal shall be deemed as having been accepted when a copy of the Contract (fully executed by both the vendor and the appropriate signatory authority for the University), with any/all Alternates, Addenda, and Pre-Contract Bulletins, as issued by the office or agent of the Owner has been duly received by the Contractor. After signing the Contracts, the Contractor shall then return all copies, plus any required bonds and certificates of insurance, to the office of the Owner's Representative, at 5454 Cass, Wayne State University, Detroit, MI 48202. Construction will begin when the fully-executed contract has been returned to the Contractor.

14. TIME OF STARTING AND COMPLETION

- A. It is understood that the work is to be carried through to substantial completion with the utmost speed consistent with good workmanship and to meet the established start and completion dates.
- B. The Contractor shall begin work under the Contract without delay, upon receipt of a fully-executed contract from the Owner, and shall substantially complete the project ready for unobstructed occupancy and use of the Owner for the purposes intended within the completion time stated in the Contract.
- C. The Contractor shall, immediately upon receipt of fully-executed contract, schedule his work and expedite deliveries of materials and performance of the subcontractors to maintain the necessary pace for start and completion on the aforementioned dates.

15. CONTRACTOR'S PERFORMANCE EVALUATION (2-2015)

In an effort to provide continuous process improvement regarding the construction of various university projects, Wayne State University is embarking upon a process of evaluating the contractor's overall performance following the completion of work. At the conclusion of the construction project a subjective evaluation of the Contractor's performance will be prepared by the Project Manager and the supervising Director of Construction. The evaluation instrument that will be used in this process is shown in Section **00440-01 - Contractor's Performance Evaluation**.

16. BIDDING DOCUMENTS

- A. Bid specifications are not available at the University, but are available beginning **January 5, 2016** through Wayne State University Procurement & Strategic Sourcing's Website for Advertised Bids: **http://www.forms.procurement.wayne.edu/Adv_bid/Adv_bid.html**. The plans for this project can be viewed in advance and/or printed from the above website. Copies of the RFP will not be available at the pre-proposal meeting.

B. DOCUMENTS ON FILE (revised 12-2007)

- (1) *Wayne State University Procurement & Strategic Sourcing's Website.*
All available information pertaining to this project will be posted to the Purchasing web site at http://www.forms.procurement.wayne.edu/Adv_bid/Adv_bid.html.
Information that is not posted to the website is not available/not known.
- (2) Notification of this Bid Opportunity has been sent to *DUNN BLUE (for purchase of Bid Documents only), DODGE REPORTS, REED CONSTRUCTION, CONSTRUCTION NEWS and the CONSTRUCTION ASSOCIATION OF MICHIGAN (CAM).*
- (3) Please note: Effective December 1, 2007, bid notices will be sent only to those Vendors registered to receive them via our Bid Opportunities list serve. To register, to http://www.forms.procurement.wayne.edu/Adv_bid/Adv_bid.html, and click on the "Join our Listserve" link at the top of the page.

15. Smoke and Tobacco-Free Policies (9-2015)

On August 19, 2015, Wayne State joined hundreds of colleges and universities across the country that have adopted smoke- and tobacco-free policies for indoor and outdoor spaces. Contractors are responsible to ensure that all employees and all subcontractors' employees are in compliance anytime they are on WSU's main, medical, or extension center campuses. The complete policy can be found at <http://wayne.edu/smoke-free/policy/>.

NOTICE OF MANDATORY PRE-BID CONFERENCE

PROJECT: Tierney Alumni House Cabling,

PROJECT NOS.: **WSU PROJECT NO. 505-259171**

It is **MANDATORY** that each Contractor proposing to bid on this work must attend a pre-bid conference at the following location:

Wayne State University
5454 Cass, Conference Room 3
Detroit MI 48202

1:00 pm, local time, January 12, 2016

The purpose of this conference is to clarify the procedures, scope of work, and to identify any omissions and/or inconsistencies that may impede preparation and submission of representative competitive bids.

In the event that less than 4 individual contractor firms attend the pre-bid conference, the University reserves the right, at its sole discretion, to either reschedule the pre-bid conference or proceed and offer a second pre-bid conference date. (Attendance at only one pre-bid conference will be required).

An attendance list shall be prepared and minutes of the conference shall be furnished to all those attending.

Any clarifications or corrections that cannot be made at the conference will be by Addendum.

For your convenience a map of the University and appropriate parking lots can be downloaded and printed from: **<http://campusmap.wayne.edu/>**. Guest parking in any of the University student and guest lots is **\$7.00**. A detailed list of Cash & Coin operated lots can be viewed at **http://purchasing.wayne.edu/cash_and_credit_card_lots.php**. Cash lots dispense change in quarters. Due to time constraints, Vendors are encouraged to avoid parking at meters on the street (especially blue "handicapped" meters).

All available information pertaining to this project will be posted to the Purchasing web site at **http://www.forms.procurement.wayne.edu/Adv_bid/Adv_bid.html**. Information that is not posted to the website is not available/not known.

AGENDA

- I. Welcome and Introductions
 - A. Wayne State University Representatives
 - B. Vendor Representatives
 - C. Sign in Sheet- be sure to include your fax number and email address (LEGIBLY) on the sign in sheet.
- II. Brief Overview of Wayne State University
 - A. Purpose and Intent of RFP.
 - B. Detailed review of the RFP and the requirements for a qualified response.
 - C. Review of all pertinent dates and forms that are REQUIRED for a qualified response.
- III. Vendor Questions/Concerns/Issues
 - A. Questions that can be answered directly by the appropriate person in this meeting will be answered and both question and answer will be recorded in the minutes of the meeting.
 - B. Questions that need to be researched will be answered and a nature of clarification will be emailed to the appropriate ListServ. See http://www.forms.purchasing.wayne.edu/Adv_bid/Adv_Bid_Listserve.html for a list of ListServ Bid Lists.
 - C. Minutes will be emailed to all participants of the meeting within a reasonable amount of time. (be sure to include your email address/addresses on the sign in sheet)
 - D. Questions and concerns that come up after this meeting are to be addressed to **Valerie Kreher**, Procurement & Strategic Sourcing. Discussion with other University members is seriously discouraged and could lead to disqualification from further consideration. All questions and answers will be recorded and emailed to all participants of the RFP.
 - E. Due date for questions is **January 15, 2016, 12:00 noon**.
- IV. Minimum Participation
 - A. Pre-registration for the Pre-Bid meeting is required. In the event that we do not have four (4) or more eligible bidders pre-registered, the University reserves the right to postpone the Pre-bid meeting with up to 4 business hour notice.
 - B. If less than 4 individual contractor firms attend the mandatory pre-bid meeting, the University reserves the right, at its sole discretion, to either reschedule the pre-bid conference or proceed and offer a second pre-bid conference date. (Attendance at only one pre-bid conference will be required).
 - C. On the day of the bid opening, if less than 3 sealed bids are received, the University reserves the right, at its sole discretion, to rebid the project in an effort to obtain greater competition. If the specifications are unchanged during the rebid effort, any contractor who submitted a bid will be given the option of keeping its bid on file for opening after the second bid effort, or of having the bids returned to them unopened.
- V. Proposal Due Date- **January 22, 2016, 2:00 p.m.**
- VI. Final Comments
- VII. Adjourn

VENDOR NAME _____

GENERAL CONTRACT - PROPOSAL FORM (revised 1 - 2011)

Please Note – Vendors must Pre-qualify themselves when responding to this bid opportunity. Our Prequalification questions can be found on page 4 of this section.

OWNER: Board of Governors
Wayne State University

PROJECT: Tierney Alumni House Cabling

PROJECT NO.: WSU PROJECT NO. 505-259171

PROJECT TYPE: General construction ,Install CAT6E cabling
Wood Flooring, Architectural woodwork, Plastering, Painting and staining. Work

PURCHASING AGENT: Valerie Kreher, Senior Buyer
WSU – Procurement & Strategic Sourcing
5700 Cass, Suite 4200
Detroit, Michigan 48202
313-577-3720/ 313-577-3747 fax
rfpteam2@wayne.edu & copy leiann.day@wayne.edu@wayne.edu

OWNER'S REPRESENTATIVE: Mark Gibbons, Project Manager
Design & Construction Services
Facilities Planning & Management
Wayne State University
5454 Cass Avenue
Detroit, Michigan 48202

TO: Board of Governors
Wayne State University
Detroit, Michigan

BASE PROPOSAL:

The undersigned agrees to enter into an Agreement to complete the entire work of the **Tierney Alumni House Cabling** project (WSU Project No. **505-259171**) in accordance with the Bidding Documents for the following amounts:

_____ \$ _____ Dollars

ALTERNATES: The following alternates to the base proposal(s) are required to be offered by the respective bidder. The undersigned agrees that the following amounts will be added to or deducted from the base bid as indicated, for each alternate which is accepted.

ALTERNATE NO. 1:

The undersigned agrees to enter into an agreement to complete the Alternate # 1 work, Provide and install (13) Thirteen cameras as indicated on the Drawings of the Tierney Alumni House Cabling project (WSU Project No. 505-259171) project

and to provide all labor and material associated with the work in accordance with the Bidding Documents for the following amounts:

ADD _____ \$ _____ Dollars

ALTERNATE NO. 2:

The undersigned agrees to enter into an agreement to complete the Alternate # 2 work, All CAT-3 cable to remain at all "turret" locations as indicated on the Drawings of the Tierney Alumni House Cabling project (WSU Project No. 505-259171) project and to provide all labor and material associated with the work in accordance with the Bidding Documents for the following amounts:

Deduct _____ \$ _____ Dollars

LAWN REPLACEMENT:

The undersigned agrees that, in the event of existing lawn or landscaping damage, due to the Contractor's work, that has not been properly addressed and repaired to the satisfaction of the University, the University may repair/replace the lawn and/or landscaping, and that the expense will be at a **unit cost of \$10.00 per square yard for lawn, and landscaping at a rate of 1.5 times the cost of said repairs**, the full cost of which shall be reimbursed by the contractor.

CONTRACT CHANGE
ORDERS: (revised 4-01-2011)

The undersigned agrees to the following pricing formula and rates for changes in the contract work:

1. For subcontract work, Contractor's markup for handling, overhead, profit and bonding on subcontractors sell price, shall not exceed **5%**.
 - 1.1. **For subcontract work that is provided on a time and material basis, the subcontractor shall be permitted a single markup for handling, overhead, profit and bonding of 5%. When a markup is identified in the subcontractor's hourly labor rate, additional markup on labor is not permitted.**
 - 1.1.1 **For changes that are based upon a lump sum value, subcontractor shall provide all labor and material back-ups to ensure that duplicative charges are avoided and authorized mark-ups for OH&P can be confirmed**
2. For work by his own organization, Contractor's markup for job* and general overhead, profit and bonding shall not exceed **5%** of the net labor** and material costs.

Within 14 days of the project's contract execution Contractor shall provide to the Owner; Subcontractor's hourly labor rate breakdown details. This requirement shall extend to the lowest level of subcontractor participation.

* Job and general overhead includes supervision and executive expenses; use charges on small tools, scaffolding, blocking, shores, appliances, etc., and other miscellaneous job expenses.

** Net labor cost is the sum of the base wages, fringe benefits established by governing trade organizations, applicable payroll taxes, and increased expense for contractor's liability insurance (Workman's Compensation, P.L. and P.D.).

TIME OF COMPLETION:*(revised 4-01-2011)*

The Contract is expected to be fully executed on or about 25 calendar days after successful bidder qualification and recommendation of award. The undersigned agrees to start construction **immediately after** receipt of a fully executed contract, and to complete the work as follows:

Substantial Completion will be completed no later than **April 1, 2016**.

LIQUIDATED DAMAGES:

It is understood and agreed that, if project is not completed within the time specified in the contract plus any extension of time allowed pursuant thereto, the actual damages sustained by the Owner because of any such delay, will be uncertain and difficult to ascertain, and it is agreed that the reasonable foreseeable value of the use of said project by Owner would be the sum of **\$500.00, Five Hundred Dollars per day**, and therefore the contractor shall pay as liquidated damages to the Owner the sum of **\$500.00, Five Hundred Dollars per day** for each day's delay in substantially completing said project beyond the time specified in the Contract and any extensions of time allowed thereunder.

TAXES:

The undersigned acknowledges that prices stated above include all applicable taxes of whatever character or description. Michigan State Sales Tax is applicable to the work. Bidder understands that the Owner reserves the right to reject any or all bids and to waive informalities or irregularities therein.

ADDENDA:

The undersigned affirms that the cost of all work covered by the following Addenda are included in the lump sum price of this proposal.

| | |
|-------------------------------|-------------------------------|
| Addendum No. _____ Date _____ | Addendum No. _____ Date _____ |
| Addendum No. _____ Date _____ | Addendum No. _____ Date _____ |
| Addendum No. _____ Date _____ | Addendum No. _____ Date _____ |
| Addendum No. _____ Date _____ | Addendum No. _____ Date _____ |
| Addendum No. _____ Date _____ | Addendum No. _____ Date _____ |

CONTRACTOR'S PREQUALIFICATION STATEMENT & QUESTIONNAIRE:**Our Minimum Requirements for Construction Bids are:**

WSU considers this project: **General construction ,Install CAT6E cabling
Wood Flooring, Architectural woodwork, Plastering, Painting and staining. Work.**

| Criteria | Small Project bid less than \$50,000 | Medium Project bid between \$50,001 and \$250,000 | Large Project bid between \$250,001 and \$2 million | Very Large Project bid greater than \$2 million |
|--|---|---|---|---|
| EMR Rating (Experience Modification Rating) | 1.0 or Less | 1.0 or Less | 1.0 or Less | 1.0 or Less |
| Bondable Vendor | N.A. | Required | Required | Required |
| Length of Time in Construction Business | 2 Years | 3 Years | 5 Years | 5 Years |
| Demonstrated Experience in Projects Similar in Scope and Price in the last 3 years | 1 or more | 1 or more | 2 or more | 3 or more |
| Unsuccessful Projects on Campus in last 3 years | None Allowed | None Allowed | None Allowed | None Allowed |

| | | | | |
|---|--------------|--------------|--------------|--------------|
| Failure to comply with Prevailing Wage and/or Project Labor requirements | None Allowed | None Allowed | None Allowed | None Allowed |
| Withdrawn University Bid (with or without Bond forfeiture) within the last 3 years ** | 1 or less | 1 or less | 1 or less | 1 or less |
| Company currently not in Chapter 11 of the US Bankruptcy Code | 1 Year | 2 Years | 3 Years | 3 Years |

** Withdrawal of a bid is subject to the University suspension policy, for a period up to one year.

Contractors must complete the following information to determine their eligibility to participate in this bid. This information is required with your Bid to the University

Failure to complete this form in its entirety will result in your bid being disqualified.

Check one of the following on the makeup of your company:

_____ Corporation

_____ Individual

_____ Partnership

_____ Joint Venture

_____ Other (Explain below):

Diversity Classification: Please indicate the appropriate diversity classification for your company. The University recognizes the following groups as diverse or disadvantaged:

- Majority Owned _____
- Minority Business Enterprises (MBE) _____
- Women Business Enterprises (WBE) _____
- Disabled Veteran Enterprises (DVBE) _____
- Disabled Person Enterprises (DBE) _____
- Veteran Owned Businesses (VBE) _____
- Small Businesses per the US Small Business Administration (SBE) _____
- Other (Please Explain): _____

1. How many years has your organization been in business as a contractor? _____

2. How many years has your organization been in business under its present business name? _____

3. List states in which your organization is legally qualified to do business. _____

4. Provide the Name and Address of your Liability Insurance Carrier. _____

5. What is your current EMR Rating? _____

The minimum requirement is an EMR Rating of 1.0 or less for all projects. Bidders with a rating higher than 1.0 understand that their bid may be disqualified, at the sole discretion of the University.

6. What percentage of work performed on projects are by company employees; excluding any hired subcontracting and outsourced relationships, for the bid submitted? _____ %
7. What percentage of work performed on your companies behalf are by subcontracted business relationships; disallowing 1099 contracting work forces, for the bid submitted? _____ %
8. Have you ever failed to complete any work awarded to you? If so, attach a separate sheet of explanation. Include the name of the Project, the customer, the dates of the work, and the amount of the contract?
9. Have you withdrawn a bid after a University bid opening and/or refused to enter into a contract with the University upon notification of award within the last 3 years? If so, state the Project Name and Number, and the date of bid submission below.
10. Has any officer or partner of your organization ever been an officer or partner of another organization that failed to complete a construction contract? If so, attach a separate sheet of explanation.

11. List the construction experience of the principals and superintendents of your company.

Name: _____ Title: _____

Name: _____ Title: _____

Name: _____ Title: _____

12. List the construction Projects, and approximate dates, when you performed work similar in Scope to this project.

Project: _____ Owner: _____

Contract Amount: _____ Date Completed: _____

Project: _____ Owner: _____

Contract Amount: _____ Date Completed: _____

Project: _____ Owner: _____

Contract Amount: _____ Date Completed: _____

13. List the construction Projects, and approximate dates, when you performed work similar in Dollar Amount to this project.

Project: _____ Owner: _____

Contract Amount: _____ Date Completed: _____

Project: _____ Owner: _____

Contract Amount: _____ Date Completed: _____

Project: _____ Owner: _____

Contract Amount: _____ Date Completed: _____

14. Is your Company "bondable"? Yes _____ No _____

15. What is your present bonding capacity? \$ _____

16. Who is your bonding agent?

NAME: _____

ADDRESS: _____

PHONE: (_____) _____

CONTACT: _____

17. Does your company agree to provide financial reports to the University upon request? Failure to agree may result in disqualification of your bid. Yes _____ No _____

18. Does your company agree that all of the Terms and Conditions of this RFP and Vendor's Response Proposal become part of any ensuing agreement? Yes _____ No _____

19. Does your company agree to execute a contract containing the clauses shown in Section 00500 "Agreement Between Contractor and Owner for Construction"? Yes _____ No _____

If "No", clearly note any exceptions to any information contained in the contract documents and include with your proposal.20. Did your company quote based upon **Prevailing Wage Rates**? Yes _____ No _____21. Does your company agree to comply with the University **Smoke and Tobacco Free Policies**? Yes _____ No _____**Note:** Contractors submitting proposals for this project may, at the discretion of the University, be required to submit references including contact information to be used to assist in the post bid evaluation process for the subject project**ACKNOWLEDGEMENT OF
MINIMUM QUALIFICATIONS:**

The undersigned has read and understands the minimum qualifications for University construction projects, and has completed the Prequalification section completely and accurately. The undersigned understands that a contractor, who fails to meet the minimum qualifications **in the category identified for this project, will be disqualified from consideration for the project.**

ACCEPTANCE OF PROPOSAL:

The undersigned agrees to execute a Contract, being the Wayne State University standard form titled "Agreement Between Contractor and Owner for Construction" (see section 00500 of the bid documents), provided that we are notified of the acceptance of our Proposal within sixty (60) days of the date set for the opening thereof.

The undersigned below understands that the bid will be disqualified if the Prequalification information above is not completed in its entirety.

NAME OF COMPANY: _____

OFFICE ADDRESS: _____

PHONE NUMBER: _____ DATE _____

FAX NUMBER: _____

SIGNED BY: _____

Signature

(Please print or type name here)

TITLE _____

EMAIL ADDRESS: _____@_____

PREVAILING WAGE RATE SCHEDULE (revised 4-05-2010)

- A. See also Page 00100-4 Section 12.B
- B. Wayne State University requires all project contractors, including subcontractors, who provide labor on University projects to compensate at a rate no less than prevailing wage rates.
- C. The rates of wages and fringe benefits to be paid to each class of laborers and mechanics by each VENDOR and subcontractor(s) (if any) shall be not less than the wage and fringe benefit rates prevailing in Wayne County, Michigan, as determined by the United States Secretary of Labor. Individually contracted labor commonly referred to as "1099 Workers" and subcontractors using 1099 workers are not acceptable for work related to this project.
- D. To maintain compliance with State of Michigan Ordinances, Certified Payroll must be provided for each of the contractor's or subcontractor's payroll periods for work performed on this project. Certified Payroll should accompany all Pay Applications. Failure to provide certified payroll will constitute breach of contract, and pay applications will be returned unpaid, and remain so until satisfactory supporting documents are provided.

A Prevailing Wage Rate Schedule has been issued from the State of Michigan that is enclosed in this section

Additional information can be found on the University Procurement & Strategic Sourcing's web site at the following URL address:

<http://purchasing.wayne.edu/vendors/wage-rates.php>

If you have any questions, or require rates for additional classifications, please contact:

Michigan Department of Consumer & Industry Services,
Bureau of Safety and Regulation, Wage and Hour Division,
7150 Harris Drive,
P.O. Box 30476,
Lansing, Michigan 48909-7976

http://www.michigan.gov/dleg/0,1607,7-154-27673_27706---,00.html

F. Wayne State University's Prevailing Wage Requirements:

When compensation will be paid under prevailing wage requirements, the University shall require the following:

- A. The contractor shall obtain and keep posted on the work site, in a conspicuous place, a copy of all current prevailing wage and fringe benefit rates.
- B. The contractor shall obtain and keep an accurate record showing the name and occupation of and the actual wages and benefits paid to each laborer and mechanic employed in connection with this contract.
- C. The contractor shall submit a completed certified payroll document [U.S. Department of Labor Form WH 347] verifying and confirming the prevailing wage and benefits rates for all employees and subcontractors for each payroll period for work performed on this project. The contractor shall include copies of pay stubs for all employee or contract labor payments related to Wayne State University work. The certified payroll form can be downloaded from the Department of Labor website at <http://www.dol.gov/whd/forms/wh347.pdf>.
- D. A properly executed sworn statement is required from all tiers of contractors, sub-contractors and suppliers which provide services or product of \$1,000.00 or greater. Sworn statements must accompany applications for payment. All listed parties on a sworn statement and as a subcontractor must submit Partial or Full Conditional Waivers for the amounts invoiced on the payment application. A copy of the acceptable WSU Sworn Statement and Waiver will be provided to the awarded contractor.

- E. Apprentices for a skilled trade must provide proof of participation in a Certified Apprenticeship Program and the level of hours completed in the program.
- F. Daily project sign-in sheets and field reports for the project must be turned in weekly.

Note: Contractor invoices WILL NOT be processed until all listed certified payroll documents are received.

- G. If the VENDOR or subcontractor fails to pay the prevailing rates of wages and fringe benefits and does not cure such failure within 10 days after notice to do so by the UNIVERSITY, the UNIVERSITY shall have the right, at its option, to do any or all of the following:
 - 1. Withhold all or any portion of payments due the VENDOR as may be considered necessary by the UNIVERSITY to pay laborers and mechanics the difference between the rates of wages and fringe benefits required by this contract and the actual wages and fringe benefits paid.
 - 2. Terminate this contract and proceed to complete the contract by separate agreement with another vendor or otherwise, in which case the VENDOR and its sureties shall be liable to the UNIVERSITY for any excess costs incurred by the UNIVERSITY.
 - 3. Propose to the Director of Purchasing that the Vendor be considered for Debarment in accordance with the University's Debarment Policy, found on our website at <http://purchasing.wayne.edu/docs/appm28.pdf>
- Terms identical or substantially similar to this section of this RFP shall be included in any contract or subcontract pertaining to this project.
- H. The current applicable prevailing wage rates as identified by the State of Michigan Department of Consumer & Industry Services, Bureau of Safety and Regulation, Wage and Hour Division are attached. Refer to item C above if additional information is required.
 - I. Prior to award of the project, the apparent low bidder will be required to produce a schedule of values which will include the proposed subcontractors for each division of work and whether the subcontractor is signatory or non-signatory. A letter of intent or **contract will not** be issued to the apparent low bidder until this document is provided. The apparent low bidder will have one week to produce this document. If the required document is not received within this time, the bidder will be disqualified, and the next low bidder will be required to provide this schedule of values.

SEE ATTACHED STATE PREVAILING WAGE INFORMATION

State of Michigan

WHPWRequest@michigan.gov

Official Request #: 1344**Requestor:** Wayne State University**Project Description:** Tierney Alumni House Install CAT6E voice & data cabling throughout existing building**Project Number:** WSU Project 505-259171**Wayne County****Official 2015 Prevailing Wage Rates for State Funded Projects****Issue Date:** 11/17/2015**Contract must be awarded by:** 2/15/2016**Page 1 of 33**

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

Asbestos & Lead Abatement Laborer

| | | | | | | |
|---|------|------------|---------|---------|---------|-------------------|
| Asbestos & Lead Abatement Laborer | MLDC | 10/30/2015 | \$40.75 | \$54.34 | \$67.93 | H H H X X X X D Y |
| 4 ten hour days @ straight time allowed | | | | | | |
| Monday-Saturday, must be consecutive | | | | | | |

Asbestos & Lead Abatement, Hazardous Material Handler

| | | | | | | |
|---|-------|------------|---------|---------|---------|-------------------|
| Asbestos and Lead Abatement, Hazardous Material Handler | AS207 | 10/30/2015 | \$40.75 | \$54.25 | \$67.75 | H H H X X X X D Y |
| 4 ten hour days @ straight time allowed | | | | | | |
| Monday-Saturday, must be consecutive | | | | | | |

Boilermaker

| | | | | | | |
|-------------|-------|-----------|---------|---------|----------|-------------------|
| Boilermaker | BO169 | 2/17/2015 | \$54.70 | \$81.08 | \$107.45 | H 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 | \$48.63 | \$72.50 | \$96.36 |
| 7th 6 months | \$49.32 | \$73.01 | \$96.69 |
| 8th 6 months | \$51.58 | \$76.40 | \$101.21 |

Official Request #: 1344

Official Rate Schedule

Requestor: Wayne State University
posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

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

Page 1 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 2 of 33

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

Bricklayer

| | | | | | | |
|--|-----|------------|---------|---------|----------|-------------------|
| Bricklayer, stone mason, pointer, cleaner, | BR1 | 10/15/2014 | \$52.43 | \$78.65 | \$104.86 | H H D H D D D D Y |
| <i>Make up day allowed comment</i> | | | | | | |
| Saturday for 5 day 8 hour week | | | | | | |
| Friday for 4 day 10 hour week | | | | | | |
| 4 10s allowed M-TH | | | | | | |

Apprentice Rates:

| | | | |
|----------------|---------|---------|---------|
| First 6 months | \$31.87 | \$47.81 | \$63.74 |
| 2nd 6 months | \$33.72 | \$50.60 | \$67.44 |
| 3rd 6 months | \$35.57 | \$53.37 | \$71.14 |
| 4th 6 months | \$37.42 | \$56.14 | \$74.84 |
| 5th 6 months | \$39.27 | \$58.92 | \$78.54 |
| 6th 6 months | \$41.12 | \$61.70 | \$82.24 |
| 7th 6 months | \$42.97 | \$64.46 | \$85.94 |
| 8th 6 months | \$44.82 | \$67.24 | \$89.64 |

Carpenter

| | | | | | | |
|--|----------|------------|---------|---------|----------|-------------------|
| Diver | CA 687 D | 10/13/2015 | \$66.46 | \$95.70 | \$124.93 | X X H X X H H D Y |
| Four 10s allowed M-Sat; double time due when | | | | | | |
| over 12 hours worked per day | | | | | | |
| <i>Make up day allowed comment</i> | | | | | | |
| Saturday | | | | | | |

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 2 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 3 of 33

| <u>Classification</u> | | Last Updated | Straight Time and a Hourly | Double Time | Overtime Provision |
|-----------------------|--|--------------|----------------------------|-------------|---------------------------|
| Name | Description | | | | |
| ===== | | | | | |
| CA1045 | Carpet and Resilient Floor Layer, (does not include installation of prefabricated formica & parquet flooring which is to be paid carpenter rate) | 10/12/2015 | \$50.21 | \$71.55 | \$92.89 X X H X X X X D Y |

Apprentice Rates:

| | | | |
|--------------|---------|---------|---------|
| 1st 6 months | \$24.86 | \$33.53 | \$42.19 |
| 2nd 6 months | \$28.87 | \$39.54 | \$50.21 |
| 3rd 6 months | \$31.01 | \$42.76 | \$54.49 |
| 4th 6 months | \$33.14 | \$45.95 | \$58.75 |
| 5th 6 months | \$35.28 | \$49.16 | \$63.03 |
| 6th 6 months | \$37.41 | \$52.36 | \$67.29 |
| 7th 6 months | \$39.54 | \$55.54 | \$71.55 |
| 8th 6 months | \$41.67 | \$58.74 | \$75.81 |

| | | | | | | | | | | | | | | |
|---|---------|------------|---------|---------|----------|---|---|---|---|---|---|---|---|---|
| Carpenter | CA687Z1 | 10/13/2015 | \$56.59 | \$80.89 | \$105.19 | X | X | H | X | X | H | H | D | Y |
| four 10s allowed Mon-Sat; double time due when over 12 hours worked per day | | | | | | | | | | | | | | |
| Make up day allowed comment | | | | | | | | | | | | | | |
| Saturdays | | | | | | | | | | | | | | |

Apprentice Rates:

| | | | |
|--------------|---------|---------|---------|
| 1st year | \$34.72 | \$48.09 | \$61.45 |
| 3rd 6 months | \$37.16 | \$51.75 | \$66.33 |
| 4th 6 months | \$39.58 | \$55.38 | \$71.17 |
| 5th 6 months | \$42.02 | \$59.04 | \$76.05 |
| 6th 6 months | \$44.44 | \$62.67 | \$80.89 |
| 7th 6 months | \$46.87 | \$66.32 | \$85.75 |
| 8th 6 months | \$49.30 | \$69.96 | \$90.61 |

Requestor: Wayne State University
posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

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

Page 3 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 4 of 33

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

| | | | | | | |
|---|----------|------------|---------|---------|----------|-------------------|
| Piledriver | CA687Z1P | 10/13/2015 | \$56.59 | \$80.89 | \$105.19 | X X H X X H H D Y |
| Four 10s allowed Monday-Saturday; double time due when over 12 hours worked per day | | | | | | |
| Make up day allowed comment | | | | | | |
| Saturday | | | | | | |

Apprentice Rates:

| | | | |
|--------------|---------|---------|---------|
| 1st 6 months | \$34.72 | \$48.09 | \$61.45 |
| 2nd 6 months | \$39.58 | \$55.38 | \$71.17 |
| 3rd 6 months | \$44.44 | \$62.67 | \$80.89 |
| 4th 6 months | \$49.30 | \$69.96 | \$90.61 |

Cement Mason

| | | | | | | |
|--------------|-------|------------|---------|---------|---------|-------------------|
| Cement Mason | br1cm | 10/15/2014 | \$50.05 | \$71.17 | \$92.28 | X X H H H H H D N |
|--------------|-------|------------|---------|---------|---------|-------------------|

Apprentice Rates:

| | | | |
|--------------|---------|---------|---------|
| 1st 6 months | \$29.13 | \$39.45 | \$49.77 |
| 2nd 6 months | \$31.20 | \$42.54 | \$53.87 |
| 3rd 6 months | \$35.31 | \$48.67 | \$62.01 |
| 4th 6 months | \$39.46 | \$54.85 | \$70.23 |
| 5th 6 months | \$41.52 | \$57.91 | \$74.30 |
| 6th 6 months | \$45.67 | \$64.10 | \$82.52 |

| | | | | | | |
|--------------|-------|------------|---------|---------|---------|-------------------|
| Cement Mason | CE514 | 11/10/2011 | \$46.30 | \$64.89 | \$83.48 | H H D H H H H D N |
|--------------|-------|------------|---------|---------|---------|-------------------|

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 #: 1344
Requestor: Wayne State University

posted

Official Rate Schedule
Every contractor and subcontractor shall keep

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

on the construction site, in a conspicuous

**of all prevailing wage and fringe benefit rates
prescribed in a contract.**

Page 4 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 5 of 33

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

Drywall

| | | | | | | |
|----------------------------------|---------|------------|---------|---------|---------|-----------------|
| Drywall Taper | PT-22-D | 10/28/2015 | \$45.16 | \$58.69 | \$72.21 | H H D H D D D Y |
| Four 10s allowed Monday-Thursday | | | | | | |

Make up day allowed comment

Friday make-up day for bad weather or holidays

Apprentice Rates:

| | | | |
|-----------------|---------|---------|---------|
| First 3 months | \$31.63 | \$38.39 | \$45.15 |
| Second 3 months | \$34.34 | \$42.45 | \$50.57 |
| Second 6 months | \$37.04 | \$46.51 | \$55.97 |
| Third 6 months | \$39.75 | \$50.57 | \$61.39 |
| 4th 6 months | \$41.10 | \$52.59 | \$64.09 |

Electrician

| | | | | | | |
|----------------|----------|------------|---------|---------|---------|-----------------|
| Inside Wireman | EC-58-IW | 10/29/2015 | \$60.09 | \$79.08 | \$98.07 | H H H H H H D N |
|----------------|----------|------------|---------|---------|---------|-----------------|

Apprentice Rates:

| | | | |
|-----------------|---------|---------|---------|
| 0-1000 hours | \$37.29 | \$44.88 | \$52.48 |
| 1000-2000 hours | \$39.20 | \$47.75 | \$56.30 |
| 2000-3500 hours | \$41.09 | \$50.59 | \$60.08 |
| 3500-5000 hours | \$42.99 | \$53.44 | \$63.88 |
| 5000-6500 hours | \$46.79 | \$59.14 | \$71.48 |
| 6500-8000 hours | \$50.59 | \$64.84 | \$79.08 |

| | | | | | | |
|-----------------------------------|----------|-----------|---------|---------|---------|-----------------|
| Sound and Communication Installer | EC-58-SC | 6/19/2015 | \$38.11 | \$51.23 | \$64.35 | H H H H H H D N |
|-----------------------------------|----------|-----------|---------|---------|---------|-----------------|

Apprentice Rates:

| | | | |
|----------|---------|---------|---------|
| Period 1 | \$24.99 | \$31.55 | \$38.11 |
| Period 2 | \$26.30 | \$33.52 | \$40.73 |
| Period 3 | \$27.62 | \$35.50 | \$43.37 |
| Period 4 | \$28.93 | \$37.46 | \$45.99 |
| Period 5 | \$30.25 | \$39.44 | \$48.63 |
| Period 6 | \$31.55 | \$41.39 | \$51.23 |

Official Request #: 1344

Requestor: Wayne State University

posted

Official Rate Schedule

Every contractor and subcontractor shall keep

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

on the construction site, in a conspicuous

**of all prevailing wage and fringe benefit rates
prescribed in a contract.**

Page 5 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 6 of 33

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

Elevator Constructor

| | | | | | |
|----------------------|-------|----------|---------|---------|-------------------|
| Elevator Constructor | EL 36 | 8/7/2007 | \$56.46 | \$94.99 | D D D D D D D D Y |
| Elevator Constructor | | | | | |
| Make up day allowed | | | | | |

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 | 10/28/2015 | \$48.10 | \$66.84 | \$85.58 | H H H H H H H D Y |
| If a four 10 hour day workweek is scheduled, four 10s must be consecutive, M-F. | | | | | | |

Apprentice Rates:

| | | | |
|--------------|---------|---------|---------|
| 1st 6 months | \$33.07 | \$44.30 | \$55.52 |
| 2nd 6 months | \$34.58 | \$46.57 | \$58.54 |
| 3rd 6 months | \$37.58 | \$51.07 | \$64.54 |
| 4th 6 months | \$39.09 | \$53.33 | \$67.56 |
| 5th 6 months | \$40.59 | \$55.58 | \$70.56 |
| 6th 6 months | \$42.09 | \$57.83 | \$73.56 |
| 7th 6 months | \$43.59 | \$60.08 | \$76.56 |
| 8th 6 months | \$46.60 | \$64.59 | \$82.58 |

Heat and Frost Insulator

| | | | | | |
|------------------|-------|----------|---------|---------|-------------------|
| Spray Insulation | AS25S | 3/5/2007 | \$20.14 | \$29.14 | H H H H H H H H N |
|------------------|-------|----------|---------|---------|-------------------|

Requestor: Wayne State University
posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Statewide

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

Page 6 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 7 of 33

| <u>Classification</u> | | Last Updated | Straight Time and Hourly | a Double Time | Overtime Provision | | | | |
|---|-------------|-----------------|-----------------------------|---------------------|-------------------------|--|--|--|--|
| Name | Description | | | | | | | | |
| ===== | | | | | | | | | |
| Heat and Frost Insulator and Asbestos Worker | | | | | | | | | |
| Heat and Frost Insulators and Asbestos Workers | AS25 | 1/29/2014 | \$60.25 | \$76.00 | \$91.74 H H H H H H D Y | | | | |

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,

comment

Four 10s must be worked for a minimum of 2 consecutive weeks. OVERTIME is different on a four 10 week. OT is 2x for hours beyond 10. All hours on fifth day, M-F require time and one half. Sat first 8 hours, 1.5, all hours after 8 require double time.

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 | IR-25-F1 | 2/24/2015 | \$34.65 | \$46.65 | \$58.65 X X H X X X H D Y |
| Four ten hour work days may be worked during Monday-Saturday. | | | | | |

Apprentice Rates:

| | | | |
|-----------|---------|---------|---------|
| 60% Level | \$24.25 | \$31.45 | \$38.65 |
| 65% Level | \$25.55 | \$33.35 | \$41.15 |
| 70% Level | \$26.86 | \$35.26 | \$43.66 |
| 75% Level | \$28.15 | \$37.15 | \$46.15 |
| 80% Level | \$29.45 | \$39.05 | \$48.65 |
| 85% Level | \$30.75 | \$40.95 | \$51.15 |

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 7 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 8 of 33

| <u>Classification</u> | | Last Updated | Straight Time and a Half | Double Time | Overtime Provision |
|--|-------------|--------------|--------------------------|-------------|--------------------------|
| Name | Description | | | | |
| ===== | | | | | |
| Siding, Glazing, Curtain Wall | IR-25-GZ2 | 6/5/2015 | \$47.16 | \$58.82 | \$70.48 X X H H H D D Y |
| 4 tens may be worked Monday thru Thursday @ straight time. | | | | | |
| Make up day allowed comment | | | | | |
| Friday | | | | | |
| Apprentice Rates: | | | | | |
| Level 1 | | | \$30.23 | \$36.84 | \$43.43 |
| Level 2 | | | \$32.34 | \$39.58 | \$46.80 |
| Level 3 | | | \$34.46 | \$42.33 | \$50.19 |
| Level 4 | | | \$36.58 | \$45.08 | \$53.57 |
| Level 5 | | | \$38.69 | \$47.82 | \$56.95 |
| Level 6 | | | \$40.81 | \$50.57 | \$60.33 |
| Pre-engineered Metal Work | IR-25-PE-Z1 | 6/3/2015 | \$46.49 | \$56.78 | \$67.06 X X H X X X D Y |
| Make up day allowed comment | | | | | |
| 4 tens allowed M-Th with Saturday make up day | | | | | |
| Apprentice Rates: | | | | | |
| 1st Year | | | \$27.36 | \$32.83 | \$38.31 |
| 3rd 6 month period | | | \$29.48 | \$35.71 | \$41.93 |
| 4th 6 month period | | | \$31.61 | \$38.60 | \$45.58 |
| 5th 6 month period | | | \$33.73 | \$41.46 | \$49.20 |
| 6th 6 month period | | | \$35.86 | \$45.24 | \$54.62 |
| Reinforced Iron Work | IR-25-RF | 6/3/2015 | \$56.11 | \$84.03 | \$111.95 H H D H D D D N |
| Make up day allowed | | | | | |
| Apprentice Rates: | | | | | |
| Level 1 | | | \$36.76 | \$54.83 | \$72.88 |
| Level 2 | | | \$39.13 | \$58.37 | \$77.62 |
| Level 3 | | | \$41.49 | \$61.92 | \$82.34 |
| Level 4 | | | \$44.03 | \$65.72 | \$87.42 |
| Level 5 | | | \$46.56 | \$69.53 | \$92.48 |
| Level 6 | | | \$49.10 | \$73.33 | \$97.56 |

Official Request #: 1344

Requestor: Wayne State University

posted

Official Rate Schedule

Every contractor and subcontractor shall keep

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

on the construction site, in a conspicuous

**of all prevailing wage and fringe benefit rates
prescribed in a contract.**

Page 8 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 9 of 33

| <u>Classification</u> | | Last Updated | Straight Time and a Half | Double Time | Overtime Provision |
|--|--------------|--------------|--------------------------|-------------|--------------------------|
| Name | Description | | | | |
| Rigging Work | IR-25-RIG | 6/3/2015 | \$62.08 | \$92.78 | \$123.47 H H H H H D N |
| Apprentice Rates: | | | | | |
| | Level 1 & 2 | | \$37.38 | \$55.69 | \$74.01 |
| | Level 3 | | \$40.21 | \$59.94 | \$79.67 |
| | Level 4 | | \$43.03 | \$64.17 | \$85.31 |
| | Level 5 | | \$45.86 | \$68.42 | \$90.97 |
| | Level 6 | | \$48.69 | \$72.67 | \$96.63 |
| Decking | IR-25-SD | 6/5/2015 | \$54.04 | \$80.73 | \$107.42 X X H H H D D Y |
| 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. | | | | | |
| <i>Make up day allowed comment</i> | | | | | |
| Friday for 4 tens M-Th | | | | | |
| Saturday for 5 eights M-F | | | | | |
| Structural, ornamental, welder and pre-cast | IR-25-STR | 6/3/2015 | \$62.21 | \$92.94 | \$123.67 H H H H H D D Y |
| 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. | | | | | |
| <i>Make up day allowed</i> | | | | | |
| Apprentice Rates: | | | | | |
| | Levels 1 & 2 | | \$36.79 | \$55.10 | \$73.42 |
| | Level 3 | | \$39.62 | \$59.35 | \$79.08 |
| | Level 4 | | \$42.44 | \$63.58 | \$84.72 |
| | Level 5 | | \$45.27 | \$67.83 | \$90.38 |
| | Level 6 | | \$48.10 | \$72.08 | \$96.04 |
| | Level 7 | | \$50.92 | \$76.30 | \$101.68 |
| | Level 8 | | \$53.75 | \$80.55 | \$107.34 |

Requestor: Wayne State University
posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

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

Page 9 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 10 of 33

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

| | | | | | | |
|---|-------------|-----------|---------|---------|---------|-------------------|
| Industrial Door erection & construction | IR-25-STR-D | 6/19/2015 | \$42.54 | \$63.44 | \$84.34 | H H H H H H D D Y |
|---|-------------|-----------|---------|---------|---------|-------------------|

Make up day allowed comment

Friday for bad weather when 4 tens scheduled for M-Th. If holiday celebrated on M, 4 tens may be worked T-F. Work in excess of 12 hours per day must be paid @ double time.

Laborer

| | | | | | | |
|--|-------------|------------|---------|---------|---------|-------------------|
| Construction Laborer, Demolition Laborer, Mason Tender, Carpenter Tender, Drywall Handler, Concrete Laborer, Cement Finisher Tender, Concrete Chute, and Concrete Bucket Handler | L33401-A-CC | 10/16/2015 | \$43.94 | \$62.52 | \$81.09 | H H H H H H D 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

Make up day allowed comment

Saturday

Apprentice Rates:

| | | | |
|--------------------------|---------|---------|---------|
| 0-1,000 work hours | \$37.97 | \$53.56 | \$69.15 |
| 1,001 - 2,000 work hours | \$39.16 | \$55.34 | \$71.53 |
| 2,001 - 3,000 work hours | \$40.36 | \$57.14 | \$73.93 |
| 3,001 - 4,000 work hours | \$42.75 | \$60.73 | \$78.71 |

| | | | | | | |
|--|-------------|------------|---------|---------|---------|-------------------|
| Signal Man (on sewer & caisson work), Air, Electric or Gasoline Tool Operator, Concrete Vibrator Operator, Acetylene Torch & Air Hammer Operator; Scaffold Builder, Caisson Worker | L33401-B-SB | 10/16/2015 | \$44.21 | \$62.92 | \$81.63 | H H H H H H D 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

Make up day allowed comment

Saturday

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 10 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 11 of 33

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

| | | | | | | |
|--|--|-------------|------------|---------|---------|-------------------------|
| | Furnace Battery Heater Tender, Burning Bar & Oxy-Acetylene Gun | L33401-D-HH | 10/16/2015 | \$44.45 | \$63.28 | \$82.11 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.

Make up day allowed comment

Saturday

| | | | | | | |
|--|---|-------------|------------|---------|---------|-------------------------|
| | Expediter Man, Top Man and/or Bottom Man (Blast Furnace Work or Battery Work) | L33401-E-EX | 10/16/2015 | \$45.21 | \$64.42 | \$83.63 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.

Make up day allowed comment

Saturday

| | | | | | | |
|--|--|-------------|------------|---------|---------|-------------------------|
| | Cleaner/Sweeper Laborer; Furniture Laborer | L33401-F-CL | 10/16/2015 | \$38.49 | \$54.34 | \$70.19 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.

Make up day allowed comment

Saturday

| | | | | | | |
|--|--|-------|------------|---------|---------|---------------------------|
| | Lansing Burner, Blaster & Powder Man; Air, Electric or Gasoline Tool Operator (Blast Furnace Work or Battery Work) | L334C | 10/16/2015 | \$44.71 | \$63.67 | \$82.63 X X H X H H H D Y |
|--|--|-------|------------|---------|---------|---------------------------|

Make up day allowed comment

Saturday

Official Request #: 1344

Requestor: Wayne State University

posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171

County: Wayne

Official Rate Schedule

Every contractor and subcontractor shall keep

on the construction site, in a conspicuous

**of all prevailing wage and fringe benefit rates
prescribed in a contract.**

Page 11 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 12 of 33

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

| | | | | | | | | | | | | | |
|---|-------|------------|---------|---------|---------|---|---|---|---|---|---|---|---|
| Plasterer Tender, Plastering Machine Operator | LPT-1 | 10/16/2015 | \$43.94 | \$62.52 | \$81.09 | X | X | 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

Make up day allowed comment

Saturday

Apprentice Rates:

| | | | |
|---------------------|---------|---------|---------|
| 1,001 - 2,000 hours | \$39.16 | \$55.34 | \$71.53 |
| 2,001 - 3,000 hours | \$40.36 | \$57.14 | \$73.93 |
| 3,001 - 4,000 hours | \$42.75 | \$60.73 | \$78.71 |

Laborer - Hazardous

| | | | | | | | | | | | | | |
|--|-----------|-----------|---------|---------|---------|---|---|---|---|---|---|---|---|
| Class A 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 use of personal protective equipment level "D" is required. | LHAZ-Z1-A | 11/7/2014 | \$43.54 | \$61.94 | \$80.33 | H | H | H | H | H | H | D | Y |
|--|-----------|-----------|---------|---------|---------|---|---|---|---|---|---|---|---|

Make up day allowed comment

4 10s allowed M-Th or T-F; inclement weather makeup day Friday

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 #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 12 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 13 of 33

| <u>Classification</u> | | Last Updated | Straight Time and a | | | Double Time | Overtime Provision | | | | | | |
|---|-------------|--------------|---------------------|---------|---------|-------------|--------------------|---|---|---|---|---|-----|
| Name | Description | | Hourly | Half | | | | | | | | | |
| ===== | | | | | | | | | | | | | |
| Class B 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-Z1-B | 11/7/2014 | \$44.54 | \$63.44 | \$82.33 | H | H | H | H | H | H | H | D Y |

Make up day allowed comment

4 10s allowed M-Th or T-F; inclement weather makeup day Friday

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

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

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 |

Requestor: Wayne State University
posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

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

Page 13 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 14 of 33

| <u>Classification</u> | | Last | Straight Time and | a | Double | Overtime |
|--|-------------|----------|-------------------|---------|---------|-----------------|
| Name | Description | Updated | 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 |
|--|------------|----------|---------|---------|---------|-----------------|

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 |

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 14 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 15 of 33

| <u>Classification</u> | | Last Updated | Straight Time and a Hourly | Double Time | Overtime Provision |
|---|-------------|--------------|----------------------------|-------------|---------------------------|
| Name | Description | | | | |
| ===== | | | | | |
| 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 X D Y |

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

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 |

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

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 15 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 16 of 33

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

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 10/13/2015 \$28.98 \$40.04 \$51.09 X X H X X X H D Y

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 10/13/2015 \$24.76 \$33.71 \$42.65 X X H X X X H D Y

Sundays paid at time & one half. Holidays paid at double time.

Marble Finisher

Marble Finisher

BR1-MF 10/20/2014 \$43.48 \$54.29 \$65.10 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 | \$19.04 | \$25.12 | \$31.20 |
| Level 2 | \$20.24 | \$26.92 | \$33.60 |
| Level 3 | \$27.01 | \$33.96 | \$40.90 |
| Level 4 | \$28.47 | \$36.14 | \$43.82 |
| Level 5 | \$29.99 | \$37.84 | \$45.70 |
| Level 6 | \$31.61 | \$39.86 | \$48.10 |
| Level 7 | \$33.30 | \$41.59 | \$49.87 |
| Level 8 | \$34.79 | \$43.48 | \$52.17 |

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 16 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 17 of 33

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

Marble Mason

| | | | | | | | | | | | | | |
|---|--------|------------|---------|---------|---------|---|---|---|---|---|---|---|---|
| Marble Mason | BR1-MM | 10/17/2014 | \$50.29 | \$64.51 | \$78.72 | H | H | D | H | D | D | D | Y |
| A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday. | | | | | | | | | | | | | |

Apprentice Rates:

| | | | |
|---------|---------|---------|---------|
| Level 1 | \$25.14 | \$32.65 | \$40.15 |
| Level 2 | \$28.20 | \$36.49 | \$44.78 |
| Level 3 | \$33.41 | \$41.97 | \$50.53 |
| Level 4 | \$36.15 | \$45.66 | \$55.17 |
| Level 5 | \$38.42 | \$48.17 | \$57.92 |
| Level 6 | \$42.07 | \$53.56 | \$65.05 |
| Level 7 | \$42.74 | \$54.38 | \$66.02 |
| Level 8 | \$43.67 | \$55.78 | \$67.88 |

Operating Engineer

| | | | | | | | | | | | | | |
|---|-------------|------------|---------|---------|---------|---|---|---|---|---|---|---|---|
| Crane with boom & jib or leads 120' or longer | EN-324-A120 | 10/28/2015 | \$57.86 | \$75.50 | \$93.13 | X | X | H | H | D | D | D | Y |
| <i>comment</i> | | | | | | | | | | | | | |
| Double time after 12 hours M-F | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|-------------|------------|---------|---------|---------|---|---|---|---|---|---|---|---|
| Crane with boom & jib or leads 140' or longer | EN-324-A140 | 10/28/2015 | \$58.68 | \$76.73 | \$94.77 | X | X | H | H | D | D | D | Y |
|---|-------------|------------|---------|---------|---------|---|---|---|---|---|---|---|---|

Work in excess of 12 per day M-F shall be paid at double time.

| | | | | | | | | | | | | | |
|--|-------------|------------|---------|---------|---------|---|---|---|---|---|---|---|---|
| Crane with boom & jib or leads 220' or longer | EN-324-A220 | 10/28/2015 | \$58.98 | \$77.18 | \$95.37 | X | X | H | H | D | D | D | Y |
| Work in excess of 12 per day M-F shall be paid at double time. | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|--|-------------|------------|---------|---------|---------|---|---|---|---|---|---|---|---|
| Crane with boom & jib or leads 300' or longer | EN-324-A300 | 10/28/2015 | \$60.48 | \$79.43 | \$98.37 | X | X | H | H | D | D | D | Y |
| Work in excess of 12 per day M-F shall be paid at double time. | | | | | | | | | | | | | |

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 17 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 18 of 33

| <u>Classification</u> | | Last Updated | Straight Time and a Hourly | Half | Double Time | Overtime Provision | | | | | | | |
|---|-------------|-----------------|-------------------------------|---------|----------------|-----------------------|---|---|---|---|---|---|---|
| Name | Description | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | |
| Crane with boom & jib or leads 400' or longer | EN-324-A400 | 10/28/2015 | \$61.98 | \$81.68 | \$101.37 | X | X | H | H | D | D | D | Y |
| Work in excess of 12 per day M-F shall be paid at double time. | | | | | | | | | | | | | |
| Compressor or welding machine | EN-324-CW | 10/28/2015 | \$47.01 | \$59.22 | \$71.43 | X | X | H | H | D | D | D | Y |
| Work in excess of 12 per day M-F shall be paid at double time. | | | | | | | | | | | | | |
| Forklift, lull, extend-a-boom forklift | EN-324-FL | 10/28/2015 | \$54.32 | \$70.19 | \$86.05 | X | X | H | H | D | D | D | Y |
| Work in excess of 12 per day M-F shall be paid at double time. | | | | | | | | | | | | | |
| Fireman or oiler | EN-324-FO | 10/28/2015 | \$45.98 | \$57.68 | \$69.37 | X | X | H | H | D | D | D | Y |
| Work in excess of 12 per day M-F shall be paid at double time. | | | | | | | | | | | | | |
| Regular crane, job mechanic, concrete pump with boom | EN-324-RC | 10/28/2015 | \$57.00 | \$74.21 | \$91.41 | X | X | H | H | D | D | D | Y |
| Work in excess of 12 per day M-F shall be paid at double time. | | | | | | | | | | | | | |
| Regular engineer, hydro-excavator, remote controlled concrete breaker | EN-324-RE | 10/28/2015 | \$56.03 | \$72.75 | \$89.47 | X | X | H | H | D | D | D | Y |
| Work in excess of 12 per day M-F shall be paid at double time. | | | | | | | | | | | | | |

Apprentice Rates:

| | | | |
|-------------------|---------|---------|---------|
| 0-999 hours | \$45.00 | \$56.71 | \$68.41 |
| 1,000-1,999 hours | \$46.67 | \$59.22 | \$71.75 |
| 2,000-2,999 hours | \$48.78 | \$62.38 | \$75.97 |
| 3,000-3,999 hours | \$50.02 | \$64.24 | \$78.45 |
| 4,000-4,999 hours | \$51.69 | \$66.75 | \$81.79 |
| 5,000-5,999 hours | \$53.36 | \$69.24 | \$85.13 |

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 18 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 19 of 33

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

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

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

*Make up day allowed*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 |
|---|-------|-----------|---------|---------|----------|-----------------|

Holiday pay = \$120.80 per hour, wages &

*Make up day allowed*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 |
|--|--------|-----------|---------|---------|----------|-----------------|

Holiday pay = \$123.30

*Make up day allowed*Subdivision of county All Great Lakes, islands, therein, & connecting & tributary waters

| | | | | | | |
|--|-------|-----------|---------|---------|---------|-----------------|
| Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs or more), Tug/Launch Operator, Loader, Dozer on Barge, Deck Machinery | GLF-3 | 2/12/2014 | \$59.30 | \$76.30 | \$93.30 | X X H H H H D Y |
|--|-------|-----------|---------|---------|---------|-----------------|

Holiday pay = \$110.30 per hour, wages &

*Make up day allowed*Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Statewide

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

Page 19 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 20 of 33

| Classification | | | | | | | | | |
|----------------|--|-------|--------------|--------------------------|---------|-------------|--------------------|--|--|
| Name | Description | | Last Updated | Straight Time and Hourly | a Half | Double Time | Overtime Provision | | |
| ===== | | | | | | | | | |
| | 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 D Y | | |

Holiday pay = \$96.05 per hour, wages & fringes

*Make up day allowed*Subdivision of county All Great Lakes, islands therein, & connecting & tributary waters**Operating Engineer Steel Work**

| | | | | | | | | |
|--|----------------|------------|---------|---------|----------|-------------------|--|--|
| Forklift, 1 Drum Hoist | EN-324-ef | 10/26/2015 | \$58.91 | \$77.25 | \$95.58 | H H D H H H D D Y | | |
| <i>Make up day allowed comment</i> | | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | | |
| Crane w/ 120' boom or longer | EN-324-SW120 | 10/26/2015 | \$61.61 | \$81.30 | \$100.98 | H H D H H H D D Y | | |
| <i>Make up day allowed comment</i> | | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | | |
| Crane w/ 120' boom or longer w/ Oiler | EN-324-SW120-O | 10/26/2015 | \$62.61 | \$82.80 | \$102.98 | H H D H H H | | |
| <i>Make up day allowed comment</i> | | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | | |
| Crane w/ 140' boom or longer | EN-324-SW140 | 10/26/2015 | \$62.79 | \$83.07 | \$103.34 | H H D H H H D D Y | | |
| <i>Make up day allowed comment</i> | | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | | |
| Crane w/ 140' boom or longer W/ Oiler | EN-324-SW140-O | 10/26/2015 | \$63.79 | \$84.57 | \$105.34 | H H D H H H | | |
| <i>Make up day allowed comment</i> | | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | | |
| Boom & Jib 220' or longer | EN-324-SW220 | 10/26/2015 | \$63.06 | \$83.47 | \$103.88 | H H D H H H D D Y | | |
| <i>Make up day allowed comment</i> | | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | | |
| Crane w/ 220' boom or longer w/ Oiler | EN-324-SW220-O | 10/26/2015 | \$64.06 | \$84.97 | \$105.88 | H H D H H H | | |
| <i>Make up day allowed comment</i> | | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | | |

Official Request #: 1344

Requestor: Wayne State University

Official Rate Schedule

Every contractor and subcontractor shall keep

posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

on the construction site, in a conspicuous

**of all prevailing wage and fringe benefit rates
prescribed in a contract.**

Page 20 of 33

Contract must be awarded by: 2/15/2016

place, a copy

Project Number: WSU Project 505-259171
County: Wayne

**of all prevailing wage and fringe benefit rates
prescribed in a contract.**

Page 21 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 22 of 33

| <u>Classification</u> | | Last Updated | Straight Time and a | | Double Time | Overtime Provision | |
|--|-----------------|--------------|---------------------|---------|-------------|--------------------|--|
| Name | Description | | Hourly | Half | | | |
| ===== | | | | | | | |
| Hoisting Operator, 2 Drum Hoist, & Rubber Tire Backhoe | EN-324-SWHO | 10/26/2015 | \$60.61 | \$79.80 | \$98.98 | H H D H H H D D Y | |
| <i>Make up day allowed comment</i> | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | |
| Oiler | EN-324-SWO | 10/26/2015 | \$52.39 | \$67.47 | \$82.54 | H H D H H H D D Y | |
| <i>Make up day allowed comment</i> | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | |
| Tower Crane & Derrick where work is 50' or more above first level | EN-324-SWTD50 | 10/26/2015 | \$62.34 | \$82.39 | \$102.44 | H H D H H H | |
| <i>Make up day allowed comment</i> | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | |
| Tower Crane & Derrick 50' or more w/ Oiler where work station is 50' or more above first | EN-324-SWTD50-O | 10/26/2015 | \$63.34 | \$83.89 | \$104.44 | H H D H H H | |
| <i>Make up day allowed comment</i> | | | | | | | |
| 4 10s allowed M-Th with Friday makeup day because of bad weather | | | | | | | |

Operating Engineer Underground

| | | | | | | | |
|-------------------|--------------|------------|---------|---------|---------|-----------------|--|
| Class I Equipment | EN-324A1-UC1 | 11/13/2015 | \$53.14 | \$68.73 | \$84.32 | H H H H H H D Y | |
|-------------------|--------------|------------|---------|---------|---------|-----------------|--|

Apprentice Rates:

| | | | |
|-------------------|---------|---------|---------|
| 0-999 hours | \$42.99 | \$53.91 | \$64.82 |
| 1,000-1,999 hours | \$44.54 | \$56.24 | \$67.92 |
| 2,000-2,999 hours | \$46.10 | \$58.58 | \$71.04 |
| 3,000-3,999 hours | \$47.66 | \$60.91 | \$74.16 |
| 4,000-4,999 hours | \$49.22 | \$63.25 | \$77.28 |
| 5,000-5,999 hours | \$50.77 | \$65.57 | \$80.38 |

| | | | | | | | |
|--------------------|--------------|------------|---------|---------|---------|-----------------|--|
| Class II Equipment | EN-324A1-UC2 | 11/13/2015 | \$48.41 | \$61.64 | \$74.86 | H H H H H H D Y | |
|--------------------|--------------|------------|---------|---------|---------|-----------------|--|

| | | | | | | | |
|---------------------|--------------|------------|---------|---------|---------|-----------------|--|
| Class III Equipment | EN-324A1-UC3 | 11/13/2015 | \$47.68 | \$60.54 | \$73.40 | H H H H H H D Y | |
|---------------------|--------------|------------|---------|---------|---------|-----------------|--|

Official Request #: 1344
Requestor: Wayne State UniversityOfficial Rate Schedule
Every contractor and subcontractor shall keep

posted

place, a copy Project Description: Tierney Alumni House Install CAT6E voice & data cabling

Project Number: WSU Project 505-259171
County: Wayne

on the construction site, in a conspicuous

**of all prevailing wage and fringe benefit rates
prescribed in a contract.**

Page 22 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 23 of 33

| <u>Classification</u> | | | Last | Straight Time and a | Double | Overtime | |
|-----------------------|--------------|------------|---------|---------------------|---------|----------|-----------------|
| Name | Description | | Updated | Hourly | Half | Time | Provision |
| ===== | | | | | | | |
| Class IV Equipment | EN-324A1-UC4 | 11/13/2015 | | \$47.11 | \$59.69 | \$72.26 | H H H H H H D Y |

| | | | | | | |
|--------------------|--------------|------------|---------|---------|---------|-----------------|
| Class IV Equipment | EN-324A1-UC4 | 11/13/2015 | \$47.11 | \$59.69 | \$72.26 | H H H H H H D Y |
|--------------------|--------------|------------|---------|---------|---------|-----------------|

| | | | | | | |
|-----------------|--------------|------------|---------|---------|---------|---------------|
| Master Mechanic | EN-324A1-UMM | 11/13/2015 | \$53.39 | \$69.56 | \$85.73 | H H H H H H H |
|-----------------|--------------|------------|---------|---------|---------|---------------|

Painter

| | | | | | | |
|--|---------|------------|---------|---------|---------|-----------------|
| Painter (8 hours of repaint work performed on Sunday shall be paid time & one half rate) | PT-22-P | 10/28/2015 | \$43.57 | \$56.60 | \$69.63 | H H D H D D D Y |
|--|---------|------------|---------|---------|---------|-----------------|

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.

Make up day allowed comment

Fridays for bad weather or holidays

Apprentice Rates:

| | | | |
|-----------------|---------|---------|---------|
| First 6 months | \$30.54 | \$37.05 | \$43.57 |
| Second 6 months | \$34.45 | \$42.92 | \$51.39 |
| Third 6 months | \$35.75 | \$44.87 | \$53.99 |
| Fourth 6 months | \$37.06 | \$46.83 | \$56.61 |
| Fifth 6 months | \$38.36 | \$48.79 | \$59.21 |
| Final 6 months | \$39.66 | \$50.73 | \$61.81 |

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 | 4/17/2015 | \$28.20 | \$38.20 | | H H H H H H H N |
|---|-------|-----------|---------|---------|--|-----------------|

| | | | | | | |
|---|---------|-----------|---------|---------|--|-----------------|
| Tap cutter/CCTV Tech/Grout Equipment Operator: unit driver and operator of CCTV; grouting equipment and tap cutting equipment | TM247-2 | 4/17/2015 | \$32.70 | \$44.95 | | H H H H H H H N |
|---|---------|-----------|---------|---------|--|-----------------|

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Statewide

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

Page 23 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 24 of 33

| <u>Classification</u> | | | Last | Straight Time and a | | Double | Overtime | |
|---|-------------|-----------|---------|---------------------|---------|--------|-----------------|--|
| Name | Description | | Updated | Hourly | Half | Time | Provision | |
| ===== | | | | | | | | |
| 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 | 4/17/2015 | | \$31.45 | \$43.07 | | H H H H H H H N | |

| | | | | | | | |
|--|---------|-----------|--|---------|---------|--|-----------------|
| Boiler Operator: unit driver and operator of steam/water heater units and all ancillary equipment associated | TM247-4 | 4/17/2015 | | \$33.20 | \$45.70 | | H H H H H H H N |
|--|---------|-----------|--|---------|---------|--|-----------------|

| | | | | | | | |
|---|---------|-----------|--|---------|---------|--|-----------------|
| Combo Unit driver & Jetter-Vac Operator | TM247-5 | 4/17/2015 | | \$33.20 | \$45.70 | | H H H H H H H N |
|---|---------|-----------|--|---------|---------|--|-----------------|

| | | | | | | | |
|--|---------|-----------|--|---------|---------|--|-----------------|
| Pipe Bursting & Slip-lining Equipment Operator | TM247-6 | 4/17/2015 | | \$34.20 | \$47.20 | | H H H H H H H N |
|--|---------|-----------|--|---------|---------|--|-----------------|

Pipefitter

| | | | | | | | |
|------------|--------|------------|--|---------|---------|----------|-----------------|
| Pipefitter | PF-636 | 10/19/2015 | | \$67.83 | \$89.03 | \$106.23 | H H D H D D D Y |
|------------|--------|------------|--|---------|---------|----------|-----------------|

comment

Four 10s allowed during the week preceding, following and/or the week of a holiday.

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 |

Requestor: Wayne State University
posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

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

Page 24 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 25 of 33

| Classification | Name | Description | Last Updated | Straight Time and a Half | Double Time | Overtime Provision |
|----------------|------|-------------|--------------|--------------------------|-------------|--------------------|
| ===== | | | | | | |

Plasterer

| | | | | | | |
|------------------------------------|------|-----------|---------|---------|---------|-----------------|
| Plasterer | BR1P | 11/1/2012 | \$45.04 | \$67.56 | \$90.08 | H H H H H H D N |
| <i>Make up day allowed comment</i> | | | | | | |
| Saturday | | | | | | |

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 |

Requestor: Wayne State University
posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

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

Page 25 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 26 of 33

| Classification | | | | | | | | | |
|----------------|-------------|--|--------------|--------------------------|-------------|--------------------|--|--|--|
| Name | Description | | Last Updated | Straight Time and a Half | Double Time | Overtime Provision | | | |
| ===== | | | | | | | | | |

Plumber

| | | | | | | | | | | | | | | |
|---------|--|-------|-----------|---------|---------|----------|---|---|---|---|---|---|---|---|
| Plumber | | PL-98 | 7/18/2013 | \$64.45 | \$84.87 | \$101.29 | H | H | D | H | D | D | D | Y |
|---------|--|-------|-----------|---------|---------|----------|---|---|---|---|---|---|---|---|

comment

4 tens allowed M-Th or T-F; OT of time and one half required on 11th & 12th hour of any ten hour days

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 | 8/18/2008 | \$48.46 | \$62.29 | \$76.62 | H | H | D | H | H | H | D | N |
|-------------------|--|------------|-----------|---------|---------|---------|---|---|---|---|---|---|---|---|

Straight time is not to exceed ten (10) hours per day or forty (40) hours per week.

*Make up day allowed***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 | | SR-I | 11/3/2014 | \$42.76 | \$57.75 | \$72.74 | H | H | H | H | H | H | D | N |
|--|--|------|-----------|---------|---------|---------|---|---|---|---|---|---|---|---|

Official Request #: 1344
Requestor: Wayne State University

posted

Official Rate Schedule
Every contractor and subcontractor shall keep

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Statewide

on the construction site, in a conspicuous

**of all prevailing wage and fringe benefit rates
prescribed in a contract.**

Page 26 of 33

Page 27 of 33

| | | | | | | | | | | | | | | |
|----------------------------|-----------|-----------|---------|---------|---------|---|---|---|---|---|---|---|---|---|
| Siding and decking | SHM-80-SD | 1/13/2014 | \$42.07 | \$54.28 | \$66.48 | H | H | H | H | H | H | H | D | Y |
| <i>Make up day allowed</i> | | | | | | | | | | | | | | |

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 27 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 28 of 33

| <u>Classification</u> | | | Last | Straight Time and a | | Double | Overtime | |
|---|-------------|--------|------------|---------------------|---------|----------|-----------------|--|
| Name | Description | | Updated | Hourly | Half | Time | Provision | |
| ===== | | | | | | | | |
| Sprinkler Fitter | | | | | | | | |
| Sprinkler Fitter | | SP 704 | 10/30/2015 | \$65.42 | \$86.80 | \$108.18 | H H D H D D D Y | |
| 4 ten hour days allowed Monday-Friday | | | | | | | | |
| Double time pay due after 12 hours worked M-F | | | | | | | | |

Apprentice Rates:

| | | | |
|-------------|---------|---------|---------|
| 1st Period | \$28.36 | \$36.91 | \$45.46 |
| 2nd Period | \$41.90 | \$51.52 | \$61.14 |
| 3rd Period | \$44.04 | \$54.73 | \$65.42 |
| 4th Period | \$46.18 | \$57.94 | \$69.70 |
| 5th Period | \$48.32 | \$61.15 | \$73.98 |
| 6th Period | \$50.45 | \$64.34 | \$78.24 |
| 7th Period | \$52.59 | \$67.56 | \$82.52 |
| 8th Period | \$54.73 | \$70.76 | \$86.80 |
| 9th Period | \$56.87 | \$73.98 | \$91.08 |
| 10th Period | \$59.01 | \$77.18 | \$95.36 |

Terrazzo

| | | | | | | |
|---|---------|------------|---------|---------|---------|-----------------|
| Terrazzo Finisher | BR1-TRF | 10/17/2014 | \$43.97 | \$55.03 | \$66.08 | H H D H D D D Y |
| A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday. | | | | | | |

Apprentice Rates:

| | | | |
|---------|---------|---------|---------|
| Level 1 | \$19.04 | \$25.12 | \$31.20 |
| Level 2 | \$20.24 | \$26.92 | \$33.60 |
| Level 3 | \$27.01 | \$33.96 | \$40.90 |
| Level 4 | \$28.47 | \$36.14 | \$43.82 |
| Level 5 | \$29.99 | \$37.84 | \$45.70 |
| Level 6 | \$31.61 | \$39.86 | \$48.10 |
| Level 7 | \$33.30 | \$41.59 | \$49.87 |
| Level 8 | \$34.79 | \$43.48 | \$52.17 |

Official Request #: 1344
Requestor: Wayne State University**Official Rate Schedule**
Every contractor and subcontractor shall keep

posted

place, a copy Project Description: Tierney Alumni House Install CAT6E voice & data cabling

Project Number: WSU Project 505-259171
County: Wayne

on the construction site, in a conspicuous

**of all prevailing wage and fringe benefit rates
prescribed in a contract.**

Page 28 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 29 of 33

| <u>Classification</u> | | | Last | Straight Time and a | | Double | Overtime | |
|---|-------------|---------|------------|---------------------|---------|---------|-------------------|--|
| Name | Description | | Updated | Hourly | Half | Time | Provision | |
| ===== | | | | | | | | |
| Terrazzo Worker | | BR1-TRW | 10/17/2014 | \$49.73 | \$63.67 | \$77.60 | 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 | \$25.14 | \$32.65 | \$40.15 |
| Level 2 | \$28.20 | \$36.49 | \$44.78 |
| Level 3 | \$33.41 | \$41.97 | \$50.53 |
| Level 4 | \$36.15 | \$45.66 | \$55.17 |
| Level 5 | \$38.42 | \$48.17 | \$57.92 |
| Level 6 | \$42.07 | \$53.56 | \$65.05 |
| Level 7 | \$42.74 | \$54.38 | \$66.02 |
| Level 8 | \$43.67 | \$55.78 | \$67.88 |

Tile

| | | | | | | | |
|---|--|--------|------------|---------|---------|---------|-------------------|
| Tile Finisher | | BR1-TF | 10/17/2014 | \$43.50 | \$54.32 | \$65.14 | 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 | \$19.04 | \$25.12 | \$31.20 |
| Level 2 | \$20.24 | \$26.92 | \$33.60 |
| Level 3 | \$27.01 | \$33.96 | \$40.90 |
| Level 4 | \$28.47 | \$36.14 | \$43.82 |
| Level 5 | \$29.99 | \$37.84 | \$45.70 |
| Level 6 | \$31.61 | \$39.86 | \$48.10 |
| Level 7 | \$33.30 | \$41.59 | \$49.87 |
| Level 8 | \$34.79 | \$43.48 | \$52.17 |

Requestor: Wayne State University
posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

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

Page 29 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 30 of 33

| <u>Classification</u> | | Last Updated | Straight Time and Hourly | a Half | Double Time | Overtime Provision |
|---|-------------|-----------------|-----------------------------|-----------|----------------|-----------------------|
| Name | Description | | | | | |
| Tile Layer | BR1-TL | 10/17/2014 | \$49.68 | \$63.59 | \$77.50 | H H D H D D D Y |
| A 4 ten workweek may be worked Monday thru Thursday or Tuesday thru Friday. | | | | | | |

Apprentice Rates:

| | | | |
|---------|---------|---------|---------|
| Level 1 | \$25.14 | \$32.65 | \$40.15 |
| Level 2 | \$28.20 | \$36.49 | \$44.78 |
| Level 3 | \$33.41 | \$41.97 | \$50.53 |
| Level 4 | \$36.15 | \$45.66 | \$55.17 |
| Level 5 | \$38.42 | \$48.17 | \$57.92 |
| Level 6 | \$42.07 | \$53.56 | \$65.05 |
| Level 7 | \$42.74 | \$54.38 | \$66.02 |
| Level 8 | \$43.67 | \$55.78 | \$67.88 |

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 Y |
| 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 Y |
| on euclid type equipment <i>Make up day allowed</i> | TM-RB1B | 8/8/2013 | \$41.45 | \$38.23 | | H H H H H H H Y |

Official Request #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 30 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 31 of 33

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

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

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 |

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

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

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 |

Official Request #: 1344

Official Rate Schedule

Requestor: Wayne State University
posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

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

Page 31 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 32 of 33

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

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

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

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 |

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 |

Official Request #: 1344

Official Rate Schedule

Requestor: Wayne State University
posted

Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy

Project Number: WSU Project 505-259171
County: Wayne

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

Page 32 of 33

Official 2015 Prevailing Wage Rates for State Funded Projects

Issue Date: 11/17/2015

Contract must be awarded by: 2/15/2016

Page 33 of 33

| <u>Classification</u> | | Last Updated | Straight Time and Hourly | a Half | Double Time | Overtime Provision | | | | | | | | | |
|--|---|-----------------|-----------------------------|-----------|----------------|-----------------------|---|---|---|---|---|---|---|---|---|
| Name | Description | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | |
| 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 #: 1344
Requestor: Wayne State University
posted
Project Description: Tierney Alumni House Install CAT6E voice & data cabling
place, a copy
Project Number: WSU Project 505-259171
County: Wayne

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

Page 33 of 33

Key Performance Indicator Tracking Sworn Statement Requirements

The University tracks its level of spend along a number of socio-economic categories. This includes its spend with Diverse organizations, its spend with Detroit based organizations, and its spend with Michigan based organizations. To assist with this, The University has the following requirements for submission of your bid and for Pay Applications submitted by the successful contractor.

Submission of Bid

1. **Diverse or disadvantaged prime contractor:** Please specify in your bid whether ownership of your company is a certified diverse or disadvantaged business, according to the categories listed previously in section 00300. In accordance with guidelines from the MMSDC and GL-WBC, the University considers a business to be diverse when it is at least 51% owned, operated, and controlled by one or more members of a diverse classification. Section 00300 has a place for this information on page 00300-3.
2. **Detroit based and Michigan Based contractor:** It is presumed that the contractor is headquartered at the location we submit our Purchase Orders to, and that it should be the same address as listed in Section 00300 at the signature line. If a supplier is headquartered elsewhere, please make note of this information, so we do not inaccurately include or exclude spend.

Pay Applications and Sworn Statements

1. **Applicability:** The University requires Sworn Statements with Pay Applications for all construction projects that use
 - Subcontractors greater than \$1,000.00
 - Significant suppliers (those with a purchase value of \$1,000 or more).
2. **Sworn Statements:** The Supplier must submit applicable monthly sworn statements to the Project Manager and the Buyer of Record, in the format shown on page 2 of Section 00420. Sworn Statements are "always required" for this project, and are to be submitted to **(Project_Manager)**, the project manager, and to **Valerie Kreher, Senior Buyer**
3. **Inclusion:** Sworn Statements are to detail the inclusion of recognized diverse and disadvantaged groups in the following 2 categories; Subcontracts or Suppliers. The University recognizes the following groups as diverse or disadvantaged:
 - Minority Business Enterprises (MBE)
 - Women Business Enterprises (WBE)
 - Disabled Veteran Enterprises (DVBE)
 - Disabled Person Enterprises (DBE)
 - Veteran Owned Businesses (VBE)
 - Small Businesses per the US Small Business Administration (SBE)
4. A complete set of the University's Supplier Diversity Program, which includes complete definitions of each of the above, can be downloaded from our web site at <http://policies.wayne.edu/administrative/04-02-supplier-diversity.php>.

| STATE OF MICHIGAN | | | | Sworn Statement | | | | | | |
|---|---|----------------------------|---------------------------------|----------------------------------|----------------------------|---------------------------|--------------------------------|---------------------------|------------------------------|---------------------------|
| COUNTY OF _____ } § | | | | | | | | | | |
| _____, being duly sworn, deposes and says that (s)he makes the Sworn Statement on behalf of _____, who is the Contractor for an improvement to the following described real property situated in _____ County, Michigan, and described as follows: | | | | | | | | | | |
| That the following is a statement of each subcontractor and supplier and laborer, for which laborer the payment of wages or fringe benefits and withholdings is due but unpaid, with whom _____ has subcontracted for performance under the contract with the Owner or lessee thereof, and that the amounts due to the persons as of the date thereof are correctly and fully set forth opposite their names, as follows. (Subcontracts or suppliers of values of less than \$1,000 are omitted.) | | | | | | | | | | |
| NO. | SUBCONTRACTOR (Name, Address, Telephone Number) SUPPLIER OR LABORER | S=Supplier C=Contractor | Type of Entity *see below | TYPE OF IMPROVEMENT FURNISHED | TOTAL CONTRACT PRICE | CONTRACT CHANGE +/- | ADJUSTED CONTRACT AMOUNT | AMOUNT PAID TO DATE | AMOUNT CURRENTLY OWING | BALANCE TO COMPLETE |
| 1 | | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| TOTALS | | | | | | | | | | |
| * Type of Entity: MBE=Minority Business Enterprises; WBE=Women Business Enterprises; DVBE=Disabled Veteran Enterprises; DBE=Disabled Person Enterprises; VBE=Veteran Owned Businesses; SBE=Small Businesses per the US Small Business Administration Please attach additional sheets if the number of items exceeds the page limit. | | | | | | | | | | |

00420 - 4

WAYNE STATE UNIVERSITY
PAYMENT PACKAGE DOCUMENT REQUIREMENTS (Revised 7-23-2015):

Review and comply with Section 410 of Bid Front End Documents.
Review and comply with Article 15 of the Supplemental General Conditions.

PAYMENT APPLICATION - AIA document G702 & G703 (or equivalent) –Checklist:

- Correct Project Name – Found on your contract.
- Correct Project Number – Found on your contract.
- Purchase Order Number – Required prior to beginning work.
- Correct Application Number.
- Correct Period Reporting Dates – Applications support docs must be sequential and within application range.
- Approved & Executed Change Orders Listed. (Cannot invoice for unapproved Change Orders)
- Schedule of Values percentages and amounts match the approved Pencil Copy Review – Signed by the Architect, Contractor, and University Project Manager.
- Correct Dates – Back dating not accepted.
- Signed and Notarized.

SWORN STATEMENT – Checklist:

- List all contractors, sub-contractors, suppliers... ≥ \$1000.00
- A sworn statement is required from every Sub Contractor on the job with a material purchase or sub-contract of \$1,000 or more. (All tiers.)
- Purchase Order Number
- Dates – Back dating not accepted.
- Signed and Notarized.

CERTIFIED PAYROLL - Dept. of Labor Form WH-347 – Checklist: (Union and Non-Union)

- For every contractor & sub-contractors work, for each week within the application reporting period.
- Correct Project Number
- List ALL workers on-site.
- Make sure their addresses are listed.
- Social Security Numbers MUST be blackened out or listed in XXX-XX-1234 format.
- Work classifications based on the job specific Prevailing Wage Schedule descriptions. If you require rates for additional classifications, contact the Michigan Department of Consumer & Industry Services.
http://www.cis.state.mi.us/bwuc/bsr/wh/revised_rates/whc_tbl.htm
- For any workers paid at the Apprenticeship rates - proof of enrolled program and current completion required.
- Rate of Pay verified against the Prevailing Wage Schedule with an hourly cost breakdown of fringes paid.
- Authorized signatures on affidavit.
- Dates – must represent the weeks within the application period.

APPLICATION PACKAGE SUPPORTING DOCUMENTATION –

- Copies of **Pay Stubs** for each Certified Payroll period reported may be required– (Social Security Numbers MUST be blackened out or listed in XXX-XX-1234 format. Pay stubs need to reflect claimed participation of fringes like Medical, Dental, Retirement or 1099 classification.)
- **Proof of Ownership** for any 'Owner Operator' contractors not wishing to claim their time on prevailing wage. – (Must list their hours and dates worked on the WH-347 Form and enter EXEMPT on the income

brackets.) The Owner must provide copies of "DBA" registration form confirming status as exempt from prevailing wage requirements.

- **Proof of Stored Materials** – Bill of Lading, Delivery Receipts, Pictures, Certificate of Insurance or endorsement page specifically insuring stored material at location, and pictures with materials clearly separated and labeled for WSU. The University reserves the right to on site verification of stored materials.
- **Partial Conditional Waivers** – The contractor shall provide covering the entire amount of the application. For non-bonded projects all sub-contractors must provide for all applications which they have a draw.
- **Partial Unconditional Waivers** – Must release amount paid for work and be delivered starting with application #2 and in no case after payment application #3, through all sequential applications for contractors, sub-contractors, and suppliers listed on the Sworn Statements.
- **Full Unconditional Waivers** – Must be delivered with final payment application, releasing all contractors, sub-contractors, suppliers listed on the sworn statements and any legitimate notice of furnishings reconciled.

FINAL PAYMENT APPLICATION – Checklist:

- Clear and concise As-Built drawings.
- Operation and Maintenance Manuals
- Process and training directions (if applicable).
- Warranty of work in accordance with project documents.
- Submittals log and samples installed on the job.
- Certificate of Substantial Completion
- Full Unconditional Waiver

○

The Project Manager may provide additional requirements as may apply to individual jobs

Revised 7-23-2015

Contractor Performance Evaluation

In an effort to provide continuous process improvement regarding the construction of various university projects, Wayne State University is embarking upon a process of evaluating the contractor's overall performance following the completion of work. At the conclusion of the construction project a subjective evaluation of the Contractor's performance will be prepared by the Project Manager and the supervising Director of Construction. The evaluation instrument that will be used in this process is presented below:

| Contractor Evaluation Sheet | | | | | | | | | | | |
|---|--|--|--|--|-----------------------|-----|---------------|------------|--------------|--------------|--|
| Contractor Name : _____ | | | | | Project Name: _____ | | | | | | |
| Contractor's PM: _____ | | | | | PM Name: _____ | | | | | | |
| Superintendent: _____ | | | | | Project Number: _____ | | | PO#: _____ | | | |
| Designer: _____ | | | | | | | | | | | |
| EVALUATION SCORING: 1 = Unacceptable, 2 = Less than Satisfactory, 3 = Satisfactory or Neutral, 4 = Good, 5 = Excellent Note: Comments are REQUIRED if any score is less than 3. Write comments on the back of the evaluation. | | | | | | | | | | | |
| | | | | | | | | | | | |
| Field Management | | | | | Score | | Weight | | Total | | |
| 1) | Work Planning / Schedule: | | | | 1 | 2 | 3 | 4 | 5 | 8 | |
| 2) | Compliance with Construction Documents: | | | | 1 | 2 | 3 | 4 | 5 | 8 | |
| 3) | Safety Plan & Compliance: | | | | 1 | 2 | 3 | 4 | 5 | 5 | |
| 4) | Compliance with WSU procedures: | | | | 1 | 2 | 3 | 4 | 5 | 7 | |
| 5) | Effectiveness of Project Supervision: | | | | 1 | 2 | 3 | 4 | 5 | 8 | |
| 6) | Project Cleanliness: | | | | 1 | 2 | 3 | 4 | 5 | 3 | |
| 7) | Punch List Performance: | | | | 1 | 2 | 3 | 4 | 5 | 5 | |
| 8) | Contractor Coordination with WSU Vendors: | | | | 1 | 2 | 3 | 4 | 5 | 3 | |
| 9) | Construction Quality: | | | | 1 | 2 | 3 | 4 | 5 | 8 | |
| Administrative Management | | | | | | | | | | | |
| 10) | Responsiveness: | | | | 1 | 2 | 3 | 4 | 5 | 4 | |
| 11) | Contractor communication: | | | | 1 | 2 | 3 | 4 | 5 | 4 | |
| 12) | Contractor Professionalism: | | | | 1 | 2 | 3 | 4 | 5 | 3 | |
| 13) | Subcontractor Professionalism: | | | | 1 | 2 | 3 | 4 | 5 | 3 | |
| 14) | Compliance with Contract Requirements: | | | | 1 | 2 | 3 | 4 | 5 | 3 | |
| 15) | Submittal\RFI Process: | | | | 1 | 2 | 3 | 4 | 5 | 4 | |
| 16) | Close-out - Accuracy of Documents | | | | 1 | 2 | 3 | 4 | 5 | 7 | |
| Invoice and Change Management | | | | | | | | | | | |
| 17) | Change Management | | | | 1 | 2 | 3 | 4 | 5 | 7 | |
| 18) | Applications for Payment | | | | 1 | 2 | 3 | 4 | 5 | 6 | |
| 19) | Timely payment of Subs/Suppliers: | | | | 1 | 2 | 3 | 4 | 5 | 4 | |
| | | | | | | | | | Total | Total | |
| | | | | | | | | | 100 | | |
| 20) | Level of Self-Performance: | | | | Low | Med | | High | | | |
| 21) | Would you work with this Contractor again? | | | | | | Yes | | No | | |
| 22) | Would you work with this team again? | | | | | | Yes | | No | | |
| One year follow up | | | | | | | | | | | |
| 23) | Warranty Support: | | | | 1 | 2 | 3 | 4 | 5 | | |
| Evaluator | | | | | | | | | | | |
| Signature _____ | | | | | Date: _____ | | | | | | |
| Title: _____ | | | | | | | | | | | |
| Name: _____ | | | | | | | | | | | |
| Please Print | | | | | Rev. 2-17-2015 RGP | | | | | | |

We are providing the evaluation instrument at this time to allow the bidder's to review and understand the criterion that the University's project management team will use to evaluate the successful bidder's performance at the conclusion of the project. It is the intent of the university to utilize the results of this evaluation to determine if it will continue to conduct business with the Contractor in future bidding opportunities.

The scoring range is between 100 to 500 points, with 100 being low and 500 being high. Each question has an associated 'weight' factor, and the higher the weight; the greater the importance of satisfactory performance on the final score. At the conclusion of the project, and after the Project Manager and the supervising Director has prepared their independent evaluation, the University's project representative will meet with the Contractor to review the results. Acceptable contractor performance is essential to avoid having the University decline future work with the Contractor. An appeals process is available for Contractor disagreement with evaluation scores.

Contractors engaged in work are encouraged to maintain an open and regular dialog with the Design and Construction Department over the course of the construction project to ensure that the final evaluation is an accurate representation of the Contractor's performance.

WAYNE STATE UNIVERSITY

AGREEMENT BETWEEN THE UNIVERSITY AND CONTRACTOR FOR CONSTRUCTION SERVICES

Executed as of the _____ day of _____, 2015 by and between:

The Board of Governors, Wayne State University
Detroit, Michigan 48202
(The University)

and

CONTRACTOR'S_NAME
CONTRACTOR'S_ADDRESS

regarding

PROJECT_NAME
PROJECT_LOCATION
CONTRACT_NUMBER

In consideration of the mutual covenants and conditions contained herein, the Parties agree as follows:

Article 1 - Scope of Work

- 1.1 This Agreement provides for "(Enter a one or two-sentence description of the project)". The documents listed in Article 4 fully define the scope of work.
- 1.2 The Contractor shall furnish all the labor, materials, equipment, services, and supervision to perform all the work shown on the drawings and specifications listed in Article 18, including any addenda issued during the bid phase, and approved change orders issued during the construction phase.
- 1.3 The Contractor shall notify the University in writing within five (5) calendar days when the Contractor discovers any condition that will affect the contract amount or the completion date.

Article 2 - Time of Completion

- 2.1 The work to be performed under this Agreement shall commence upon the Contractor's receipt of a fully-executed Agreement, and substantial completion shall be achieved by Month _ Day _ Year .

Article 3 - The Contract Sum

- 3.1 The University shall pay the Contractor a "lump sum/not-to-exceed (pick one)" amount of \$\$\$\$\$\$ ("Amount in words 00" /100 dollars) for the performance of all work associated with the Contractor's Base Bid "and Alternates (List)".
- 3.2 The University may, at its sole discretion, during the life of the contract, award the following alternates at the amounts indicated:
"(If section 3.2 is not used, delete all text and enter _ Deleted"

Description

Amount

- Alternate ☐
Alternate ☐
Alternate ☐

- 3.3 In the event additional work becomes necessary, the following unit prices will apply:
"(If section 3.3 is not used, delete all text and enter _ Deleted"

Work Item

Unit Price

- 1.
- 2.
- 3.

Article 4 - The Contract Documents

- 4.1 The Contract Documents shall consist of this Agreement, the drawings and specifications as listed in Article 18, the General Conditions of the Contract for Construction as defined by AIA Document A201 1970 Edition, except as otherwise provided herein, and Wayne State University's Supplementary General Conditions 1997 Edition.
- 4.2 For any inconsistencies found among or between these Contract Documents, the language

contained in this Agreement shall prevail over all other documents and the Supplementary General Conditions shall prevail over the General Conditions. In the event of a conflict between the Drawings and Specifications, the requirement for the higher quantity and/or higher quality shall prevail.

Article 5 – Examination of Premises

- 5.1 The Contractor acknowledges that the University provided the opportunity for a thorough examination of the project site and its surroundings and that the Contractor knows of no conditions preventing accomplishment of the full scope of work within the time and for the amount specified in this Agreement.
- 5.2 The University will deny all claims for additional time and/or cost for conditions that could have been reasonably discovered during such an examination.

Article 6 - The Architect/Engineer

- 6.1 The Architect/Engineer for this project is:
"(List the Architect and Engineer separately if appropriate)"
- Architect's/Engineer's Firm Name
Street Number and Street Name
Suite or PO Box
City, State, Zip
Phone No. /FAX No.
- 6.2 The University will appoint a Project Manager who will be the University's point of contact for all matters of contract administration including, but not limited to, interpretation of documents, defining the scope of work, approving work schedules, and approving contract payments.

Article 7 - Additional Work

- 7.1 The University reserves the right to let other Agreements in connection with this work. The Contractor will afford other Contractors or the University's own workforce reasonable opportunity for the delivery and storage of their material and for the performance of their work and shall properly connect and coordinate its work with theirs.
- 7.2 If any part of the Contractor's work depends for proper execution or results upon the work of another Contractor or the University's own workforce, the Contractor shall inspect and promptly report to the University's Project Manager any defects in such work that render it unsuitable for such proper execution and results. The Contractor's failure to so inspect and report shall constitute an acceptance of the work of others as fit and proper for reception of the Contractor's work and as a waiver of any claim or defense against the University or other contractor which relies in whole or in part upon the contention that such work was unsuitable for proper execution and resolution.

Article 8 – Dispute Resolution

- 8.1 Jurisdiction over all claims, disputes, and other matters in question arising out of or relating to this contract or the breach thereof, shall rest in the Court of Claims of the State of Michigan. No provision of this agreement may be construed as Wayne State University's consent to submit any

claim, dispute or other matter in question for dispute resolution pursuant to any arbitration or mediation process, whether or not provisions for dispute resolution are included in a document which has been incorporated by reference into this agreement. Specifically, all references to Arbitration contained in the General Conditions are superceded by this Article.

- 8.2 In any claim or dispute by the Contractor against the University, which cannot be resolved by negotiation, the Contractor shall submit the dispute in writing for an administrative decision by the University's Vice President for Finance and Administration, within 30 days of the end of negotiations. Any decision of the Vice President shall be made within 45 days of receipt from the Contractor and is final unless it is challenged by the Contractor by filing a lawsuit in the Court of Claims of the State of Michigan within one year of the issuance of the decision. The Contractor agrees that appeal to the Vice President is a condition precedent to filing suit in the Michigan Court of Claims.
- 8.3 For purposes of this section, the "end of negotiations" shall be deemed to have occurred when:
- 8.3.1 Either party informs the other that pursuant to this section, negotiations are at an impasse; or
- 8.3.2 The Contractor submits the dispute in writing to the Vice President.
- 8.4 Unless otherwise agreed by the University in writing, and notwithstanding any other rights or obligations of either of the parties under any Contract Documents or Agreement, the Contractor shall continue with the performance of its services and duties during the pendency of any negotiations or proceedings to resolve any claim or dispute, and the University shall continue to make payments in accordance with the Contract Documents; however, the University shall not be required or obligated to make payments on or against any such claims or disputes during the pendency of any proceeding to resolve such claims or disputes.

Article 9 - Termination for Convenience

- 9.1 Upon thirty days written notice to the Contractor, the University may, without cause and without prejudice to any other right or remedy of the University, elect to terminate the contract. In such case, the Contractor shall only be paid (without duplication of any items), using a Close out Change Order, for the following:
- 9.1.1 For completed and acceptable work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
- 9.1.2 For expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted work, including fair and reasonable sums for overhead and profit on such expenses.
- 9.2 The Contractor shall not be paid on account of loss of anticipated profits or revenue, delay or disruption, or other economic loss arising out of or resulting from such termination. For purposes of this section, "fair and reasonable sums for overhead and profit" shall be determined by reference to Michigan law, without reference to principles used for such determinations in arbitration.

Article 10 - Progress Payments

- 10.1 On or before the 20th day of each month, the Contractor shall submit a written application for payment, using form AIA G702, to the Architect/Engineer and the University's Project Manager for review. The Architect/Engineer shall have ten (10) calendar days to accept or reject the Contractor's application for payment. Acceptable applications for payment shall then be submitted to the University for Payment of authorized amount(s) within thirty (30) calendar days of receipt by the University's Project Manager.
- 10.2 The application for payment shall contain a full schedule of values organized and sorted by subcontractor, by Construction Specifications Institute standard work categories, or in another format acceptable to the University.
- 10.3 Monthly progress payments shall show the percentage of work installed as of the date of the application, less amount previously installed and the amount due for the application period. The Contractor shall deduct a 10% retainage from the balance due for each progress payment and indicate the net amount due on each application.
- 10.4 When 50% of the work associated with this Agreement is installed, the Contractor shall not deduct additional retainage from the balance due from the University. When substantial completion is achieved and acknowledged by the Architect/Engineer, the Contractor and the University in writing, the University shall remit to the Contractor all but 2% of the retainage. The remaining 2% shall be retained by the University until the final payment is authorized and remitted to the Contractor.

Article 11 - Acceptance and Final Payments

- 11.1 Final payment shall be due thirty (30) days after the completion of the work, including all punch list items, provided the work is fully completed and the Agreement fully performed.
- 11.2 Upon receipt of written notice that the work is ready for final inspection and acceptance, the Architect/Engineer shall promptly inspect the work. When the Architect/Engineer concludes that the work is acceptable and the Agreement to be fully performed, the Architect/Engineer shall promptly issue a final certificate with an original signature, stating that the work provided is complete and acceptable and that the entire remaining balance found to be due the Contractor shall be remitted by the University once the final application for payment is received.
- 11.3 If, after the work has been substantially completed, full completion thereof is materially delayed through no fault of the Contractor, and the Architect/Engineer so certifies, the University shall, upon certificate of the Architect/Engineer, and without terminating the Contract, make payments of the balance due for that portion of the work fully completed and accepted. Such payments shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

Article 12 - Non-Discrimination

- 12.1 The Contractor agrees that it will not discriminate against any employee or applicant for employment, to be employed in the performance of this Agreement, with respect to hire, tenure, terms, conditions or privileges of employment or any matter directly or indirectly related to employment, because of race, color, religion, sex, age, national origin, or ancestry. Breach of this

covenant may be regarded as material breach of this Agreement.

- 12.2 The Contractor further agrees that it will, in all subcontracts relating to the performance of the work under this Agreement, provide in its subcontracts that the subcontractor will not discriminate against any employee or applicant for employment, to be employed in the performance of such contract, with respect to hire, tenure, terms, conditions or privileges of employment, or any matter directly or indirectly related to employment because of race, sex, age, color, religion, national origin or ancestry. Breach of this covenant may also be regarded as a material breach of this Agreement.

Article 13 – Laborers and Mechanics

- 13.1 All laborers and mechanics must be covered by Worker's Compensation and Employer's Liability Insurance as required by Federal and Michigan law. The Contractor shall also require all of its Subcontractors to maintain this insurance coverage.
- 13.2 The Contractor acknowledges and shall abide by the University's prohibition on use of 1099 independent contractors and owner / operator business entities. The Contractor shall ensure that all classifications of laborers and construction mechanics performing Work on the Project job site are employees of the Contractor or any Trade Contractor for any tier thereof, and that each worker is covered by workers compensation insurance

Article 14 - Prevailing Wages

- 14.1 The Contractor and each subcontractor shall pay to each class of mechanics and laborers not less than the wage and fringe benefit rates prevailing in the Detroit Metropolitan Area, as determined by the Michigan Department of Licensing and Regulatory Affairs, Department of Wage and Hour.. The Contractor shall post on site, in a conspicuous place, a copy of all applicable wage and benefit rates, and shall provide the University with a copy of the applicable wage and benefit rates.
- 14.2 The Contractor and each subcontractor shall keep an accurate record showing the name and occupation of and the actual benefits and wages paid to each laborer and mechanic employed in connection with this contract. The Contractor and each subcontractor shall make certified payroll records available to the University's representatives upon request.
- 14.3 If a Contractor or subcontractor fails to pay the prevailing rates of wages and fringe benefits and does not cure such failure within ten (10) days after notice to do so by the University, the University shall have the right, at its option, to do any or all of the following:
- 14.3.1 Withhold all or any portion of payments due the Contractor as may be considered necessary by the University to pay laborers and mechanics the difference between the rates of wages and fringe benefits required by this Agreement and the actual wage and fringe benefits paid.
- 14.3.2 Terminate part or all of this Agreement or any subagreement and proceed to complete the Agreement or subagreement by separate agreement with another Contractor or otherwise, in which case the Contractor and its sureties shall be liable to the University for any excess costs incurred by the University.
- 14.4 The Contractor shall include terms identical or substantially similar to this section in any Agreement or subagreement pertaining to the project.

Article 15 - Save Harmless

- 15.1 The Contractor shall indemnify, defend and hold harmless the University, its agents and employees from any and all loss, damage, claims, and causes of action whatsoever, including all costs, expenses and attorneys' fees arising out of Contractor's performance of obligations under the terms and conditions of this agreement. Such responsibility shall not be construed as liability for damage caused by or resulting from the negligence of the University, its agents other than the Contractor, or its employees.

Article 16 - Liquidated Damages

- 16.1 It is understood and agreed that, if the project is not completed within the time specified in the Agreement plus any extension of time allowed pursuant thereto, the actual damages sustained by the University because of any such delay will be uncertain and difficult to ascertain, and it is agreed that the reasonable foreseeable value of the use of said project by the University would be the sum of \$\$\$\$\$\$ ("Amount in words 00" /100 dollars) per day. Therefore, the Contractor shall pay as liquidated damages to the University the sum of \$\$\$\$\$\$ ("Amount in words 00" /100 dollars) per day for each day's delay in substantially completing said project beyond the time specified in this Agreement and any extensions of time allowed thereunder.

"ENTER N/A FOR ABOVE AMOUNT IF NO LIQUIDATED DAMAGES"

Article 17 - Interpretation

- 17.1 This Agreement shall be interpreted and construed according to the laws of the State of Michigan.
- 17.2 If one part of this Agreement is found to be void by legal or legislative action, the remainder of the contract remains in full effect.

Article 18 - Drawings and Specifications

- 18.1 The Technical Specifications and the Project Manual dated SPECIFY_DATES, and the following List of Drawings represents the scope of work as defined in the Contract Documents from Article 4.

| <u>Drawing No.</u> | <u>Description</u> | <u>Dated</u> |
|--------------------|--|--------------|
| Cover | Cover Sheet | |
| E0.1 | Electrical Standards and Drawing Index | |
| E0.2 | Electrical Standard Schedules and Specifications | |
| E3.1 | First Floor Power Plan | |
| E3.2 | Second Floor Power Plan | |
| E3.3 | Third Floor Power Plan | |
| AVO.1 | Exterior Camera Coverage Plan | |
| AV1.0 | Basement AV Plan | |
| AV1.1 | First Floor AV Plan | |
| AV1.2 | Second Floor AV Plan | |
| AV1.3 | Third Floor AV Plan | |

IN WITNESS WHEREOF the parties to these presents have hereunto set their hands as of the day and year first written above.

Signed, sealed and delivered
In the presence of:

CONTRACTOR'S NAME GOES HERE

By _____
Signature

Please print name here

Date signed

Title

Witness

**THE BOARD OF GOVERNORS of
WAYNE STATE UNIVERSITY**

By _____
William R. Decatur, Vice President for
Finance and Business Operations

Date signed

Form Contract Approved by OGC 06/13 - LG
Rev. 5-6-30-2014 formatting only RGP
Rev. 6-1-15-2015 date changes only SS
Rev. 7-7-1-2015 formatting, signatory only RGP

FORM OF GUARANTEE

PROJECT: Tierney Alumni House Cabling

OWNER: BOARD OF GOVERNORS, WAYNE STATE UNIVERSITY

CONTRACTOR: _____

DATE: _____

Know all men by these presents that, in consideration of my (our) having been awarded the Contract or Subcontract for complete furnishing and installation of:

Tierney Alumni House Cabling (505-259171)

For: **Board of Governors, Wayne State University**

In conformity with drawings and specifications prepared by Architect or Engineer, **WSU Facilities Planning & Management Services**, and known as the buildings indicated above, I (we) do hereby agree that, should I (we) be notified that the said work has proved faulty, etc., that I (we) will return to the buildings within three (3) working days of the receipt of such notice, and will furnish the necessary labor and material to repair such work to the satisfaction of the Owner and without cost to the Owner.

The Agreement shall remain in full force and effect **for a one year period (DATE TBD)**

WITNESS:

signed: _____
Subcontractor

by: _____

address: _____

city/state/zip: _____

signed: _____
General Contractor

by: _____

(THIS FORM TO BE FILED IN DUPLICATE.)

GENERAL CONDITIONS (Revised 10-2009)

- A. Although AIA Document A201 - Twelfth Edition (April 1970) - "General Conditions of the Contract for Construction" is not bound herein, it forms a part of these construction documents.
- B. A reference copy of AIA Document A201 - Twelfth Edition (April 1970) - "General Conditions of the Contract for Construction" is on file at the following location:

Wayne State University
Finance & Facilities Management
Procurement & Strategic Sourcing
Academic / Administrative Services Building
5700 Cass Avenue
Detroit Michigan 48202

SUPPLEMENTARY GENERAL CONDITIONS
OF
THE CONTRACT FOR CONSTRUCTION

Facilities Planning & Management - Design & Construction Services
Wayne State University

WSU SUPPLEMENTARY GENERAL CONDITIONS
OF THE
CONTRACT FOR CONSTRUCTION

NOTE: The following items related to A.I.A. General Conditions, A.I.A. Document A-201 - Twelfth Edition (April 1970), by specific number being amended to. These items, as amendments, shall have precedence over the article being amended.

ARTICLE 1 - CONTRACT DOCUMENTS

1.1 DEFINITIONS

1.1.5 The Agreement

The Agreement executed by the Contractor and the Owner.

1.2 EXECUTION, CORRELATION, INTENT, AND INTERPRETATIONS

1.2.6 "General Conditions and "Supplementary General Conditions" apply with equal force to all Contractors, Subcontractors work, and extra work required under this Contract.

1.2.7 Precedence of Drawings and Specifications.
The Agreement has precedence over WSU Supplementary General Conditions.

WSU Supplementary General Conditions have precedence over A.I.A. A-201 General Conditions of the Contract.

Specifications have precedence over drawings. Full-size drawings have precedence over scale drawings. Large-scale plans and details have precedence over small-scale plans and details. Figured dimensions have precedence over plans and elevations.

ARTICLE 2 - ARCHITECT

2.1 DEFINITION

2.1.1.1 The term Architect or Architect/Engineer as used in these specifications refers to Facilities Planning and Management - Design Services, and/or Consulting Architect/Engineer.

2.2 ADMINISTRATION OF THE CONTRACT

2.2.16 The Architect will assign Field Representatives to make periodic visits to the project for the purpose of assisting the Architect in carrying out his field responsibilities at the site. The duties, responsibilities and limitations of authority of any such Field Representative shall be as follows:

- a. Explain Contract Documents: Assist the Contractor via the Contractor's Superintendent to understand the intent of the Contract Documents.
- b. Observations: Conduct on-site observations and spot checks of the work in progress as a basis for determining conformance of the work, material, and equipment with the Contract Documents.
- c. Additional Information: Obtain from the Architect, additional details or information, if and when required, at the job site for proper execution of the work.
- d. Modifications: Consider and evaluate suggestions or modifications that may be submitted by the Contractor and report them with recommendations to the Architect for final decision.
- e. Construction Schedule and Completion: Be alert to the completion, and report same to the Architect. When the construction work has been completed in accordance with the Contract

Documents, advise the Architect that the work is ready for general inspection and acceptance.

- f. Job Conferences: Attend and report to the Architect on all required conferences held at the job site.
- g. Observe Tests: See that tests which are required by the Contract Documents are actually conducted; observe, record and report to the Architect all details relative to the test procedures; and advise the architect's office in advance of the schedules of tests.
- h. Inspection by Others: If inspectors, representing local, state or federal agencies having jurisdiction over the project, visit the job site, accompany such inspectors during their trips through the project, record the outcome of these inspections, and report same to the Architect's office.
- i. Shop Drawings: Do not permit the installation of any materials and equipment for which shop drawings are required unless such drawings have been duly approved and issued by the Architect.
- j. Contractor's Requisitions for Payment: Review and make recommendations to the Architect for disposition.
- k. List of Items for Correction: After substantial completion, make a list of items for correction before final inspection and check each item as it is corrected.
- l. Owner's Occupancy of the Building: If the Owner occupies (to any degree) the building prior to actual completion of the work by the Contractor, be especially alert to possibilities of claims for damage to completed work prior to the acceptance of the building.
- m. Owner Existing Operation: In the case of additions to or Demolitions of an existing facility, which must be maintained as an operational unit, be alert to conditions on the job site which may have an effect on the Owner's existing operation.
- n. Limitations of Authority: Do not become involved in any of the following areas of responsibility unless specific exceptions are established by written instructions issued by the Architect.
 - aa. Do not authorize deviations from the Contract Documents.
 - bb. Avoid conducting any test personally.
 - cc. Do not enter into the area of responsibility of the Contractor's field superintendent.
 - dd. Do not expedite job for Contractor unless so instructed by the Architect.
 - ee. Do not advise on or issue directions relative to any aspect of the building technique or sequence unless a specific technique or sequence is called for in the Specifications or by written instructions from the Architect.
 - ff. Do not approve shop drawings or samples.
 - gg. Do not authorize or advise the Owner to occupy the Project, in whole or in part, prior to the final acceptance of the building.
 - hh. Do not issue a Certificate for Payment.

ARTICLE 3 - OWNER

3.5 OWNER'S RIGHT TO DO WORK

- 3.5.1 The Owner may exercise his right, which is hereby acknowledged by the Contractor, to let independent of the Contract for the work herein specified, any other work on the premises even if of like character and trades, and the Owner shall not be liable for any damage, loss or expense incurred by the Contractor through the fault of any other Contractor so employed by the Owner. The Contractor acknowledges the

necessity of work by others, to be performed at approximately the same time as the work hereunder, and agrees to perform his work in full cooperation with the work of such other trades and/or Contractors, partially or entirely completed, by such other trades and/or Contractors, or by the Owner, when, in the opinion of the Architect, such access or use is necessary for the performance and completion of any portion or all of the work of others or of any work on the site.

3.6 OWNER'S ACCESS AND PARTIAL OCCUPANCY

3.6.1 The Owner shall have access to the work at all times, and at his election, may from time to time (prior to the stipulated contract completion date) occupy any of the units or parts of the project as the work in connection therewith is complete to such a degree as will, in the opinion of the Owner, permit their temporary or permanent use. The Owner will, prior to any such partial occupancy, give notice to the Contractor thereof and such occupancy shall be upon the following terms:

- a. Such occupancy shall not constitute an acceptance of work not performed in accordance with the Contract nor shall such occupancy relieve the Contractor of liability to perform any work by the Contract by not complete at the time of occupancy.
- b. Except as otherwise provided by an agreement at the time of such partial occupancy, the Contractor shall be relieved of all maintenance costs on units or parts so occupied.
- c. The Contractor shall not be responsible for wear and tear or damage resulting from partial occupancy.
- d. The Owner shall assume risk of loss with respect to any unit or part so occupied.
- e. The Contractor shall, if required by the Owner, furnish heat, light, water, or other such services to the units or parts occupied and the Owner shall make proper remuneration therefore to the Contractor.

3.6.2 The Contractor agrees that the Owner shall have the right, after seven (7) days' written notice to the Contractor, to place and install as much equipment and machinery during the progress of the work as is possible before the completion of the various parts of the work; and further agrees that such placing and installation of equipment shall not in any way evidence the completion of the work or any portion thereof, nor signify the Owner's acceptance of the work or any portion thereof. Should the Owner place or install such equipment and machinery with his own forces he shall be responsible for any damage to work of the Contractor caused by the Owner's work or workmen. Should the Owner have such placement or installation performed by another Contractor, then the Owner shall require said Contractor to be responsible for all such damage caused by his work, his workers, or his subcontractors.

ARTICLE 4 - CONTRACTOR

4.4 LABOR AND MATERIALS

4.4.3 All materials shall be so delivered, stored and handled to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Packaged materials shall be delivered and stored in original packages until ready for use. Packages or materials showing evidence of water or other damage shall be rejected. All materials shall be of the respective qualities specified herein.

4.4.4 The Contractor shall be responsible for the proper care and protection of all his materials, equipment, etc., delivered at the site. Building materials, equipment, etc., may be stored on the premises subject to the approval of the Architect.

4.4.5 To insure timely availability of critical materials in case of national emergency, the Contractor may order his subcontractors to proceed with fabrication of the same earlier than required by normal sequence of construction. In the event storage facilities are not available on the site or at the source of fabrication, the Owner will endeavor to provide such storage space as may be available to care for same. Where this is necessary, the Contractor shall be paid for all stored material on the Owner's property or on the properties approved by the Owner upon approval of certified invoices. It shall be the Contractor's obligation to pay for all handling costs and damage to this material. The Contractor shall protect this property against damage.

4.6 TAXES

- 4.6.1 The Bidder shall include in his proposal and make payment of all Federal, State, County and Municipal taxes including Michigan State Sales and Use Taxes, now in force or which may be enacted during the progress and completion of the work covered.

4.7 PERMITS, FEES AND NOTICES

- 4.7.3 The Contractor shall pay highway or DPW fees for damages to sidewalks, streets, or other public property or to any public utilities.
- 4.7.4 Permits and licenses of a temporary nature necessary for the execution of the work shall be secured and paid for by the Contractor.
- 4.7.5 **Except for the General Building Permit (which is not required), the Contractor shall secure and pay for all other required permits, including the following:**

| | | |
|-------------------|---|--------------------------|
| Electrical | - | State of Michigan |
| Plumbing | - | State of Michigan |
| Mechanical | - | State of Michigan |
| Elevator- | | City of Detroit |

- 4.7.6 The Contractor shall secure certificates of inspection and of occupancy that may be required by authorities having jurisdiction over the work. These certificates shall be delivered to the Architect upon completion of the work.

4.9 SUPERINTENDENT

- 4.9.2 The Contractor shall give sufficient supervision to the work, using his best skill and attention. He shall carefully study and compare all drawings, specifications, and other instructions, and shall at once report to the Architect any error, inconsistency, or omission which he may discover, but he shall not be held responsible for their existence or discovery.
- 4.9.3 The Contractor's superintendent shall periodically inspect the entire project to make certain that all of the stipulations of all of the articles of the General Conditions are being observed.

4.12 DRAWINGS AND SPECIFICATIONS AT THE SITE

- 4.12.1.1 Refer to Paragraph 4.12.1, of A.I.A. General Conditions of the Contract for Construction. Modify the last sentence of this paragraph to read:

"The Drawings, marked to record all changes made during construction, shall be incorporated in the Contractor's 'Informational Package'."

- 4.12.2 As a basic and interim step for the fulfillment of the "Informational Package", accurate records of all non-structural underground and concealed work shall be kept, including, but not limited to, all piping, conduit, equipment, and drainage and tunnel work. In addition, such records shall be available for review during various steps of the project.

4.13 SHOP DRAWINGS AND SAMPLES

- 4.13.9 Immediately before and as a condition of substantial completion, the Contractor shall provide the Owner an "Informational Package" and instructional sessions on the operation, maintenance, and service of the facility. The "Informational Package" shall include:

1. One (1) set of transparency (sepia) of the approved shop drawings and descriptive material submitted during construction. Any shop documents unobtainable in sepia shall be supplied in three (3) sets.

2. One (1) set of transparency (sepia) of constructional shop drawings with all installation revisions incorporated to reflect the as-built condition. Examples of constructional shop drawings are dimensioned conduit, piping and ductwork layout drawings.
3. Three (3) sets of instructional manuals on the installation, operation, maintenance and service of equipment and systems, including parts lists.

Examples of Specific Information Required:

1. Electrical
 - a. Conduit layout of light, power, and special systems, indicating dimensionally the locations and size of runs; circuit grouping and conductor size and number in conduit runs.
 - b. System description and elementary diagrams, connection and interconnection diagrams, and device internal diagrams.
2. Mechanical
 - a. Piping and ductwork layout indicating dimensionally the location and size of the runs.
 - b. Description and diagrams of control systems.

Following the submittal of the "Informational Package", the Contractor shall schedule and provide, at the Owner's convenience, instructional sessions for Owner's personnel to acquaint them with the operation, maintenance, and service of the system.

3. Elevators
 - a. Elementary diagrams and description of sequence of operation of the system control components, connection and interconnection diagrams, and device internal diagrams.

ARTICLE 5 - SUBCONTRACTORS

- 5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK
- 5.2.3 Delete Article 5.2.3 in its entirety.
- 5.2.4 Delete Article 5.2.4 in its entirety.

ARTICLE 7 - MISCELLANEOUS PROVISIONS (Revised 6-13-2011)

- 7.5 PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT BOND
- 7.5.1 The successful Bidder will be required to furnish a Performance Bond and Labor and Material Payment bond in an amount equal to 100% of the contract award amount, and include such cost in the Proposal, complying with the laws of the State of Michigan. The graduated formula no longer applies.
- A. Performance Bond and Labor and Material Payment Bond shall be from a surety company acceptable to the Owner and made payable as follows:
- (1) A Labor and Material Payment bond for 100% of the contract award amount to the Board of Governors of Wayne State University, and guaranteeing the payment of all subcontractors and all indebtedness incurred for labor, materials, or any cause whatsoever on account of the Contractor in accordance with the laws of the State of Michigan relating to such bonds.
 - (2) A Performance bond for 100% of the contract award amount to the Board of Governors of Wayne State University to guarantee and insure the completion of work according to the Contract.

B. The only acceptable Performance Bond shall be the AIA A312 – 2010.

- C. The Contractor shall include with his bid evidence of his ability to obtain a Performance Bond in the amount of 100% of the bid amount, and in accordance with the terms and conditions outlined in this section, Such evidence shall be project specific and shall be submitted on a form provided by the Surety or Agent thereof.

7.7 ROYALTIES AND PATENTS**7.7.1 Indemnification and Hold Harmless (*Revised 2-2015*).**

To the fullest extent permitted by law, the Contractor shall hold harmless, defend, and indemnify the Board of Governors of Wayne State University, the University, the Architect and Architect's Consultants, and officers, employees, representatives and agents of each of them, from and against any and all claims or losses arising out of or alleged to be resulting from, or relating to (1) the failure of the Contractor to perform its obligations under the Contract or the performance of its obligation in a willful or negligent manner; (2) the inaccuracy of any representation or warranty by the Contractor given in accordance with or contained in the Contract Documents; and (3) any claim of damage or loss by any subcontractor, or supplier, or laborer against the University, the Architect or the Architect's consultants arising out of any alleged act or omission of the Contractor or any other subcontractor, or anyone directly or indirectly employed by the Contractor or any subcontractor.

The Contractor shall also be liable for and hereby agrees to pay, reimburse, fully indemnify and hold the University, the Architect and Architect's Consultants, harmless from and against all costs and expenses of every nature (including attorney fees and expenses incident thereto) incurred by the University in collecting the amounts due from the Contractor, or otherwise enforcing its rights, under the indemnification described in this Article.

7.9 INTEREST

- 7.9.1 Delete Article 7.9 in its entirety.

ARTICLE 8 - TIME**8.1 DEFINITIONS**

- 8.1.3 The Date of Substantial Completion of the Work is the Date certified by the Architect when construction of the entire work is sufficiently complete, in accordance with the Contract Documents, so the Owner may occupy the Work for the use for which it is intended. It is the beginning date for the guarantees on all the Project Work.

8.3.5 LIQUIDATED DAMAGES

It is understood that if said Contract is not completed within the time specified in the Contract plus any extension of time thereto, the Contractor shall pay Liquidated Damages to the Owner as set forth in Article 11 of the Agreement between Contractor and Owner for Construction.

ARTICLE 9 - PAYMENT AND COMPLETION**9.3 PROGRESS PAYMENTS**

- 9.3.1 On or before the 20th day of each month, the Contractor shall submit to the Architect on the Owner's Standard Form, a written application for payment showing the proportionate value of the work installed to date from which shall be deducted, a reserve of 10% and all previous payments, and the balance of the amount as approved by the Architect shall be due and payable to the Contractor on or about the 15th day of the succeeding month.

- 9.3.2.2 No payments will be made because of materials or equipment stored off the site, except as provided for in Subparagraph 4.4.5 of the Supplementary General Conditions or other special cases the Owner may

9.6 approve.
FAILURE OF PAYMENT

9.6.1 Delete Article 9.6 in its entirety.

ARTICLE 11 - INSURANCE (Revised 2-06-2015)

11.1 CONTRACTOR'S LIABILITY INSURANCE

11.1.2 The insurance required by Subparagraph 11.1.1 shall be written for not less than any limits of liability specified herein, or required by law, whichever is greater, and shall include contractual liability insurance as applicable to the Contractor's obligations under Paragraph 4.18.

During the life of the Contract, the Contractor shall maintain the following types of insurance:

A. General Requirements

Type of Insurance

Minimum Requirement

Commercial General Liability (CGL)

Contractor shall maintain commercial general liability (CGL) CGL insurance shall be written on Insurance Services form CG 00 01 (or substitute form providing equivalent coverage) and shall cover liability arising from premises, operation, independent contractors, products-completed operation, and personal injury, contractual liability broad form property damage liability, products and completed operations coverage and X,C,U (explosion, collapse, underground) hazards.

\$1,000,000 combined single limit per occurrence
\$2,000,000 aggregate

Umbrella Liability per occurrence and in the annual aggregate of \$5,000,000.

Commercial Automobile Liability (CSL)
(including hired and non-owned vehicles)

\$1,000,000 combined single limit

Workers' Compensation
(Employers' Liability)

Statutory-Michigan \$500,000

Professional Liability insurance

This limit shall be dedicated to the risks of Professional Liability and it shall not be combined with limits of any other coverages such as Environmental/Pollution General Liability, or Umbrella Liability unless otherwise approved by the Owner. Coverage shall be for the benefit of the Contracting or Design- Build entity, its principles, Employees, affiliates, agents, and partners-whether joint or several. It is presumed that this insurance will be Claims Made, and therefore must have a Retro-active date prior to the performance of any work for the Owner, whether or not such work is under contract or purchase order. This insurance will be placed with an insurer licensed to do business in the State of Michigan and rated no less than A X; by AM Best

\$100,000.00 Per Occurrence and in the Aggregate annually.

B. Maximum Acceptable Deductibles

Type of Insurance

Maximum Deductible

| | |
|------------------------------------|---------|
| Comprehensive General Liability | \$5,000 |
| Fire Legal Liability | \$5,000 |
| Comprehensive Automobile Liability | -0- |
| Workers' Compensation | -0- |

Property - All Risk

\$ 500

- 11.1.3 The Board of Governors, Wayne State University, shall be named as an additional insured but only with respect to accidents arising out of the performance of said contract. The contractor shall prepare a certificate of insurance which shall name the "Office of Risk Management; 5700 Cass Avenue" as the Wayne State University certificate holder.
- 11.1.3.1 The Contractor shall either 1) require each of his Subcontractors to procure and to maintain during the life of his subcontract, Subcontractors' Comprehensive General Liability, Automobile Liability and Property Damage Liability Insurance of the type and in the same amounts as specified in the Subparagraph, or 2) insure the activity of his subcontractors in his own policy.
- 11.2 OWNER'S LIABILITY INSURANCE
- Delete Article 11.2 in its entirety.
- 11.3 PROPERTY INSURANCE
- Delete Article 11.3 in its entirety and replace with the following:
- 11.3.1 The Contractor shall purchase and maintain property insurance upon the entire work at the site to the full insurable value thereof. This insurance shall include the interests of the Owner, the Contractor, Subcontractors, and sub-subcontractors in the work and shall insure against the perils of Fire, Extended Coverage, Vandalism, and Malicious Mischief.
- 11.3.2 The Owner and Contractor waive all rights against each other for damages caused by fires or other perils to the extent covered by insurance provided under Subparagraph 11.3.1. The Contractor shall require similar waivers by Subcontractors and sub-subcontractors in accordance with Clause 5.3.1.5.
- 11.3.3 Insurance must be issued by an insurance company with an "A rating as denoted in the AM Best Key Rating Guide".

ARTICLE 12 - CHANGES IN THE WORK

- 12.1 CHANGE ORDERS
- 12.1.8 Percentage markups in pricing under Subparagraphs 12.1.3.1, 12.1.3.3, and 1.2.4 shall be as limited in the Contract Documents. Unit price of Subparagraph 12.1.3.2 shall represent total unit cost to the Owner and shall include the Contractor's markup for overhead and profit.

ARTICLE 14 - TERMINATION OF THE CONTRACT

- 14.1 TERMINATION BY THE CONTRACTOR
- 14.1.1 If the work is stopped for a period of thirty days under any order of any court or other public authority having jurisdiction, or as a result of any act of government, such as a declaration of a national emergency making materials unavailable, through no act or fault of the contract or a subcontractor or their agents or employees or other persons performing any of the Work under a contract with the contractor, then the contractor may, upon seven days' written notice to the Owner and the Architect, terminate the contract and recover from the Owner payment for all Work executed and for any proven loss sustained upon any materials, equipment, tools, construction equipment, and machinery, including reasonable profit and damages.

ARTICLE 15 - ADDITIONAL CONDITIONS

- 15.1 SUBSTITUTION OF MATERIALS AND EQUIPMENT
- 15.1.1 Whenever a material, article, or piece of equipment is identified on the Drawings or in the Specifications by reference to manufacturers' or vendors' names, trade names, catalog numbers, or the like, it is so identified for the purpose of establishing a standard, and any material, article, or piece of equipment of other manufacturers or vendors, which will perform adequately the duties imposed by the general design will be

considered equally acceptable provided the material, article, or piece of equipment so proposed is, in the opinion of the Architect, of equal substance, appearance, and function. It shall not be purchased or installed by the Contractor without the Architect's written approval.

15.2 NON-DISCRIMINATION PROVISION AND WAGE AND HOUR ACT

15.2.1 During the performance of this contract, the Contractor agrees as follows:

15.2.1.1 The Contractor shall not discriminate against any employee or applicant for employment because of sex, race, creed, color, age, or national origin. The Contractor will take affirmative action to insure that applicants are employed, and that employees are treated during employment without regard to their sex, race, age, creed, color, or national origin.

15.2.1.2 Such action shall include but not be limited to, the following: employment; upgrading; demotion; or transfer; recruitment or recruitment advertising; layoff or terminations; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this non-discrimination clause.

15.2.1.3 The Contractor will, in all solicitations, or advertisements for employees, placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to sex, race, creed, color, age or national origin.

15.2.1.4 The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice advising the labor union or worker's representative of the Contractor's commitments under Section 202 of Executive Order No. 11246 of October 27, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

15.2.1.5 The Contractor will comply with all provisions of the Executive Order No. 11246 of October 27, 1965, and of the rules, regulations and relevant orders of the Secretary of Labor or other government agency or authority having jurisdiction.

15.2.1.6 The Contractor will furnish all information and reports required by Executive Order No. 11246 of October 27, 1965, and by the rules, regulations, and orders of the Secretary of Labor or other government agency or authority having jurisdiction, and will permit access to his books, records, and accounts by the administrative agency and the Secretary of Labor for the purposes of investigation to ascertain compliance with such rules, regulations and orders.

15.2.1.7 In the event of the Contractor's noncompliance with the non-discrimination clauses of this contract, or with any of the said rules, regulations, or orders, this Contract may be canceled, terminated or suspended in whole or in part, and the Contractor may be declared ineligible for further University contracts or federally-assisted contracts in accordance with procedure authorized in Executive Order No. 11246 of October 27, 1965, or by rule, regulation, or order of the Secretary of Labor or other government agency or authority having jurisdiction.

15.2.1.8 The Contractor will include in the provisions of Subparagraph 15.2.1.1 through 15.2.1.8 in every subcontract or purchase order unless exempted by rules, regulations or orders of the President's Committee on Equal Employment Opportunity issued pursuant to Section 204 of Executive Order No. 11246 of September 14, 1965, so that provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the Contractor becomes involved as a result of such direction by the administering agency, the Contractor may request the United States to enter into such litigation to protect the interest of the United States.

15.3 COMPLIANCE WITH COPELAND ANTI-KICKBACK ACT AND REGULATIONS

15.3.1 The Contractor shall comply with the Copeland Anti-Kickback Act and Regulations of the Secretary of Labor

(29CFR, Part 3) which are herein incorporated by reference.

15.4 PREVAILING WAGES

- 15.4.1 Contractors and subcontractors shall pay all mechanics and laborers, including apprentices and trainees, no less than the wage and fringe benefit rates prevailing in the locality in which the work is performed. Wage and fringe benefit rates are determined by the Federal Government Department of Labor.
- 15.4.2 Classifications not provided in the schedule shall be determined prior to the award of the contract and shall be no less than the wage and fringe benefit rates determined by the Federal Department of Labor.
- 15.4.3 Contractors and subcontractors shall adhere to the ratios of apprentices to journey workers as determined by the Federal Department of Labor.
- 15.4.4 Contractors and subcontractors shall keep a copy of the prescribed wage and benefit rates posted at the construction site in a conspicuous place.
- 15.4.5 Contractors and subcontractors shall keep an accurate record of the name, occupation, and the actual benefits paid to each mechanic or laborer for the contract. This record shall be made available for reasonable inspection by the Federal Department of Labor and the Owner.

DRAWINGS

The Technical Specifications dated **January 5, 2016** and the following List of Drawings represent the scope of work as defined in the Contract Documents from Article 4.

DRAWINGS

| Drawing No.: | Description |
|---------------------|--|
| Cover | Cover Sheet |
| E0.1 | Electrical Standards and Drawing Index |
| E0.2 | Electrical Standard Schedules and Specifications |
| E3.1 | First Floor Power Plan |
| E3.2 | Second Floor Power Plan |
| E3.3 | Third Floor Power Plan |
| AVO.1 | Exterior Camera Coverage Plan |
| AV1.0 | Basement AV Plan |
| AV1.1 | First Floor AV Plan |
| AV1.2 | Second Floor AV Plan |
| AV1.3 | Third Floor AV Plan |

GENERAL REQUIREMENTS**GENERAL****A. CONTRACTOR'S RESPONSIBILITY**

It is not the responsibility of the Architect/Engineer or Owner's Representative to notify the Contractor or subcontractors when to commence, to cease, or to resume work; nor in any way to superintend so as to relieve the Contractor of responsibility or of any consequences of neglect or carelessness by him or his subordinates. All material and labor shall be furnished at times best suited for all Contractors and subcontractors concerned, so that the combined work of all shall be properly and fully completed on the date fixed by the Contract.

The Contractor shall be responsible for all items contained in both the specifications and on the drawings for all trades. He shall be responsible for the proper division of labor according to current labor union agreements regardless of the division of responsibility implied in the contract documents.

B. CODES AND STANDARDS

Reference to standard specifications for workmanship, apparatus, equipment and materials shall conform to the requirements of latest specifications of the organization referenced, i.e., American Society for Testing Materials (ASTM), Underwriters Laboratories, Inc. (UL), American National Standards Institute, Inc. (ANSI), and others so listed in the Technical Specifications.

C. PERMITS, FEES AND NOTICES

See Supplementary General Conditions.

D. MEASUREMENTS

Before proceeding with each Work Item, Contractor shall locate, mark and measure any quantity or each item and report quantities to Engineer. If measured quantities exceed Engineer's estimate, Contractor shall obtain written authorization to proceed from Owner before executing Work required for that Work Item.

Measurement of quantities for individual Work Items will be performed by Contractor and reviewed by Engineer. Coordinate measurements with inspection as required in Section "Coordination."

Cost of Work included in Work Item for quantities as indicated in Contract Documents shall be included in Base Bid.

1. Additions to or deductions from lump sum price for quantities of each Work Item added to or deducted from Work respectively shall be at unit prices indicated in Bid Form and shall constitute payment or deductions in full for all material, equipment, labor, supervision and incidentals necessary to complete Work.

E. CONTRACTOR'S MEASUREMENTS

Before ordering material, preparing Shop Drawings, or doing any work, each Contractor shall verify, at the building, all dimensions which may affect his work. He assumes full responsibility for the accuracy of his figures. No allowance for additional compensation will be considered for minor discrepancies between dimensions on the drawings and actual field dimensions.

F. CONTINUITY OF SERVICE (*Revised 3-26-2012*)

Continuity of all existing services in the building shall be maintained throughout the construction period. Where it is necessary to tie into the existing electrical service, water or waste systems, it shall be done as directed by the Architect/Engineer. This Contract shall also provide temporary lines or bypasses that may be required to maintain continuous service in the building. All utility shutdowns must be approved by the Owners Representative / Project Manager, not less than **7 business days** prior to the event, so that proper notification can be posted.

G. SUBMITTALS

All submittals (except Shop Drawings) and samples required by the Specifications shall be submitted in triplicate unless otherwise specified for a particular item under an individual Specification Section.

Each sample shall be clearly identified on a tag attached, showing the name of the Project Consultant, the project number and title, the names of the Contractor, manufacturer (and supplier if same is not the manufacturer), the brand name or number identification, pattern, color, or finish designation and the location in the work.

Each submittal shall be covered by a transmittal letter, properly identified with the project title and number and a brief description of the item being submitted.

Contractor shall be responsible for all costs of packing, shipping and incidental expenses connected with delivery of the samples to the Project Consultant or other designated address.

If the initial sample is not approved, prepare and submit additional sets until approval is obtained.

Materials supplied or installed which do not conform to the appearance, quality, profile, texture or other determinant of the approval samples will be rejected, and shall be replaced with satisfactory materials at the Contractor's expense.

H. GENERAL/STANDARD ELECTRONIC EQUIPMENT AND INFRASTRUCTURE REQUIREMENTS (*Revised 11-2008*)**1. Compliance with WSU Standards for Communications Infrastructure**

- A. All applicable work, products, materials and methods shall comply with the latest version of the "WSU Standards for Communications Infrastructure" except as where noted.
- B. This document is available at the following website/URL: **<http://networks.wayne.edu/WSU-Communications-Standards.pdf>**

2. Automation System Program Code

- A. All automation system uncompiled and compiled program codes, source codes, custom modules, graphical user interface screen shots and any other automation system programming data and material (Program Code) shall be provided to the UNIVERSITY in hard copy and on CD Rom in an unencrypted format acceptable to the UNIVERSITY.
- B. Copyright for the Program Code shall be assigned to the UNIVERSITY for purposes of system maintenance.

PROTECTION OF OCCUPANCY (*Revised 3-2006*)**A. FIRE PRECAUTIONS**

Take necessary actions to eliminate possible fire hazards and to prevent damage to construction work, building materials, equipment, temporary field offices, storage sheds, and other property.

During the construction, provide the type and quantity of fire extinguishers and fire hose to meet safety and fire prevention practices by National Fire Protection Association (NFPA) Codes and Standards (available at <http://www.nfpa.org/>)

In the event that construction includes "hot work", the contractor shall provide the Owner's Representative with a copy of their hot work policy, procedures, or permit program. No hot work activity (temporary maintenance, renovation, or construction by operation of a gas or electrically powered equipment which produces flames, sparks or heat that is sufficient to start a fire or ignite combustible materials) shall be performed until such documents are provided. During such operations, all highly combustible or flammable materials shall be removed from the immediate working area, and if removal is impossible, same shall be protected with flame retardant shield.

Not more than one-half day's supply of flammable liquids such as gasoline, spray paint and paint solvent shall be brought into the building at any one time. Flammable liquids having a flash point of 100 degrees F. or below which must be brought into the building shall be confined in an Underwriters Laboratories (UL) labeled safety cans. The bulk supply of flammables shall be stored at least 75 feet from the building and other combustible materials. Spigots on drums containing flammable liquids are prohibited on the project site. Drums shall be equipped with approved vented pumps, and be grounded and bonded.

Only a reasonable working supply of combustible building materials shall be located inside the building.

All oil-soaked rags, papers, and other similar combustible materials shall be removed from the building at the close of each day's work, or more often if necessary, and placed in metal containers, with self-closing lids.

Materials and equipment stored in cardboard cartons, wood crates or other combustible containers shall be stored in an orderly manner and accessibly located, fire-fighting equipment of approved types shall be placed in the immediate vicinity of any materials or equipment stored in this type of crate or carton.

No gasoline, benzene, or like flammable materials shall be poured into sewers, manholes, or traps.

All rubbish shall be removed from the site and legally disposed of. Burning of rubbish, waste materials or trash on the site shall not be permitted.

The contractor shall be responsible for the conduct of employees relative to smoking and all smoking shall be in the area designated by the Architect/Engineer.

B. GENERAL SAFETY AND BUILDING PRECAUTIONS

Provide and maintain in good repair barricades, railings, etc., as required by law for the protection of the Public. All exposed material shall be smoothly dressed.

At dangerous points throughout the work environment provide and maintain colored lights or flags in addition to above guardrails.

Isolate Owner's occupied areas from areas where demolition and alteration work will be done, with temporary, dustproof, weatherproof, and fireproof enclosures as conditions may require and as directed by the Architect/Engineer.

Cover and protect furniture, equipment and fixtures to remain from soiling, dust, dirt, or damage when demolition work is performed in rooms or areas from which such items have not been removed.

Protect openings made in the existing roofs, floors, and other construction with weatherproof coverings, barricades, and temporary fire rated partitions to prevent accidents.

Repair any damage done to existing work caused by the construction and removal of temporary partitions, coverings, and barricades.

The Contractor will be held responsible for all breakage or other damage to glass up to the time the work is completed.

Provide protection for existing buildings, interior and exterior, finishes, walls, drives, landscaping, lawns (see below), etc. All damages shall be restored to match existing conditions to the satisfaction of the Architect/Engineer.

The Contractor and Owner will define the anticipated area of lawn damage at the project Pre-Construction Meeting. Whether the lawn is sparse or fully developed, any lawn damaged due to the Contractor's work will be replaced with sod by the University. The University's unit cost of \$10.00 per square yard and landscaping at a rate of 1.5 times the cost of the sod repairs, the full cost of which will be assessed against the Contractor. At the completion of the project, a deductive Change Order reflecting this cost will be issued.

The Contractor is to include an allowance in his bid for this corrective work.

C. INTERFERENCE WITH OWNER'S OPERATIONS

The Owner will be utilizing the Building Facilities to carry on his normal business operation during construction. The Contractor shall schedule performance of the work necessary to complete the project in such a way as to interfere as little as possible with the operation during construction. The Contractor shall schedule performance of the work necessary to complete the project in such a way as to interfere as little as possible with the operation of the Owner.

Work which will interfere with the Owner's occupancy, including interruptions to the Owner's mechanical and electrical services, and essentially noisy operations (such as jackhammering) shall be scheduled in advance. The schedule of alterations shall be approved by the Architect/Engineer and the work shall be done in accordance with the approved schedule.

It is understood that the work is to be carried through to completion with the utmost speed consistent with good workmanship and to meet the construction schedule.

The Contractor shall begin work under the Contract without delay upon receipt of the fully-executed contract and shall substantially complete the project ready for unobstructed occupancy and use of the Owner for the purposes intended within the completion time stated in the contract.

The Contractor shall, immediately upon award of contract, schedule his work and expedite deliveries of materials and performance of subcontractors to maintain the necessary pace to meet the construction schedule.

CONTRACTOR'S REPRESENTATION AND COORDINATION**A. FIELD SUPERINTENDENT**

Contractor shall assign a full time project manager/superintendent for the duration of the project. This person shall be experienced and qualified in all phases of the work and shall be present at the site during Contractor's working hours. The project manager shall have Contractor's full authority to represent Contractor in all routine operations including payment, changes to the work, and scheduling. Contractor shall not re-assign this individual without prior written permission of the Owner.

B. MEETINGS

When directed by the Architect/Engineer, meetings shall be held for the purpose of coordinating and expediting the work. The invited contractors or subcontractors will be required to have qualified representatives at these meetings, empowered to act in their behalf.

C. COORDINATION

The Contractor shall also provide a staff adequate to coordinate and expedite the work properly and shall at all times maintain competent supervision of its own work and that of its subcontractors to insure compliance with contract requirements.

The Contractor shall be solely responsible for all construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the work under the Contractor.

D. CONSTRUCTION SCHEDULE

The Construction Schedule shall be prepared after the award of contract. Soon after, a pre-construction meeting is held with the Owner and the Architect/Engineer to determine the areas to which the Contractor will be allowed access at any one time.

The Contractor is alerted to the fact that areas in which he will be working will be occupied by students and employees of the University as well as the general public. The Contractor's access, to and from the project site, will be confined to limited areas so as not to unduly disrupt the normal activities of the University.

TEMPORARY FACILITIES

A. GENERAL

The following temporary facilities descriptions represent standard conditions. Verify accuracy with Architect/Engineer at time of bids.

B. CONTRACTOR'S OFFICE

Provide field offices as required. Locate temporary field offices on site where directed by Architect/Engineer.

Appearance and location of field offices shall be approved by the Architect/Engineer.

Provide for all other administrative facilities and storage off the Owner's property.

C. STORAGE OF MATERIALS

All materials shall be stored in areas designated by the Architect/Engineer. All stored materials shall be arranged for the minimum disruption to occupants and to allow full access to and throughout the building. Materials stored outdoors shall be neat and orderly and covered to prevent damage or vandalism.

D. PARKING

1. GENERAL

University parking regulations will be strictly enforced.

Maintain Owner's parking areas free of dirt and debris resulting from operations under the contract.

2. STANDING AND UNLOADING/LOADING VEHICLES

All Contractors are to call Wayne State University Public Safety at 577-2222, and give at least 24 hours advance notice that they have vehicles that must be at the job site.

Vehicles will be permitted at the project site only as long as the vehicles are needed for loading/unloading, and must be immediately moved upon completion.

All unauthorized and/or unattended standing vehicles will be subject to ticketing and removal by University Police. Towed vehicles may be reclaimed by calling 577-2222, and paying any assessed charges.

3. COMPLIMENTARY PARKING

There is no complimentary parking for Contractor's employee vehicles.

4. WAYNE STATE UNIVERSITY PUBLIC/STUDENT PARKING AREAS

Public Parking, on a first-come first-served basis is available. Contact the office of the One Card System, at 313.577.9513 for information on availability of parking on a contractual basis.

E. TOILET FACILITIES

The Owner's designated existing toilet facilities may be used by workers on the project. Contractor shall maintain such facilities in a neat and sanitary condition.

F. TELEPHONE USE

If required, the Contractor shall provide and pay for a temporary telephone within the building for his use and that of his subcontractors.

No use of the Owner's telephone (except pay telephones) will be permitted.

G. ACCESS DEVICES

The Contractor shall furnish and maintain temporary hoists, ladders, railings, scaffolds, runways, and the like as required for safe, normal access to the permanent construction until the permanent facilities are complete. Each trade shall furnish such additional means of access as may be required for the progress and completion of the work. Such temporary access devices shall meet all applicable local, state, and federal codes and regulations.

H. HEAT AND VENTILATION

Provide cold weather protection and temporary heat and ventilation as required during construction to protect the work from freezing and frost damage.

Provide adequate ventilation as required to maintain reasonable interior building air conditions and temperatures, to prevent accumulation of excess moisture, and to remove construction fumes.

Tarpaulins and other materials used for temporary enclosures. Coverings and protection shall be flameproofed.

I. WATER SERVICE

Sources of water are available at the site. The Owner will pay for reasonable amounts of water used for construction purposes.

The Contractor shall provide, at the earliest possible date, temporary connections to the water supply sources and maintain adequate distribution for all construction requirements. The Contractor shall protect sources against damage.

Methods of conveying this water shall be approved by the Architect/Engineer and shall not interfere with the Owner's operations.

J. ELECTRICAL SERVICES

All charges for reasonable amounts of electrical power energy used for temporary lighting and power required for this work will be paid by the Owner.

The Contractor shall provide and maintain any temporary electrical lighting and power required for this work. At the completion of the work, all such temporary electrical facilities shall be removed and disposed of by the Contractor.

Temporary lighting and power shall comply with the regulations and requirements of the National Electrical Code

INSPECTIONS AND TESTS

The Architect/Engineer shall at all times have access to the work wherever it is in preparation or in progress and the Contractor shall provide proper facilities for such access and for observation.

No failure of the Architect/Engineer, during the progress of the work, to discover or reject materials or work not in accordance with the Contract Specifications and Drawings shall be deemed an acceptance thereof nor a waiver of defects therein. Likewise, no acceptance or waiver shall be inferred or implied due to payments made to contractor or by partial or entire occupancy of the work, or installation of materials that are not strictly in accordance with the Contract Specifications and Drawings.

Where tests are specifically called for in the Specifications, the Owner shall pay all costs of such tests and engineering services unless otherwise stated in the contract.

Where tests are not specifically called for in the Specifications, but are required by the Architect/Engineer or Consultant, the Owner shall pay all costs of such tests and engineering services unless the tests reveal that the workmanship or materials used by the Contractor are not in conformity with the Drawings, Specifications, and/or approved shop drawings. In such event, the Contractor shall pay for the tests, shall remove all work and materials so failing to conform and replace with work and materials that are in full conformity.

CLEAN-UP

The Contractor shall at all times keep the Owner's premises and the adjoining premises, driveways and streets clean of rubbish caused by the Contractor's operations and at the completion of the work shall remove all the rubbish, all of his tools, equipment, temporary work and surplus materials, from and about the premises, and shall leave the work clean and ready for use. If the contractor does not attend to such cleaning immediately upon request, the Architect/Engineer may cause such cleaning to be done by others and charge the cost of same to the Contractor.

The Contractor will be responsible for all damage from fire that originates in, or is propagated by, accumulations of rubbish or debris.

All rubbish and debris shall be disposed of off the Owner's property in an approved sanitary landfill site. No open burning of debris or rubbish will be permitted. Job site shall be left neat and clean at the completion of each day's operation.

PROJECT CLOSE-OUT**A. RECORD DRAWINGS**

At beginning of job, provide one copy of Working Drawings, and record changes, between Working Drawings and "As Built", including changes made by Addenda, Change Orders, Shop Drawings, etc. These shall be kept up to date. Update to indicate make of all mechanical and electrical equipment and fixtures installed. Keep these Record Prints in good condition and available for inspection by the Architect/Engineer.

Upon completion of the job, turn over to the Architect/Engineer Record Prints of Working Drawings showing all job changes.

B. OPERATING AND MAINTENANCE DATA

Prepare and furnish to the Architect/Engineer three (3) bound copies of "Operating and Maintenance Manual" on all equipment installed under this Contract.

Manual shall include copies of all Manufacturers' "Operating and Service Instructions", including Parts List, Control Diagrams, Description of Control Systems, Operating, Electrical Wiring, and any other information needed to understand, operate and maintain the equipment. The names and addresses of all subcontractors shall be included. These instructions shall be custom-prepared for this job -- catalog cuts will not be accepted. Equipment shall be cross-referenced to Section of Specifications and to location shown and scheduled on drawings.

Include Test-Adjust-Balance Report in the Manual.

C. FINAL INSPECTION

Secure final inspections from the State of Michigan as soon as the work is completed and immediately submit such Certificates to the Architect/Engineer.

D. GUARANTEES (See Sections 00510 and 01781)

Guarantees on material and labor from the General Contractor and his subcontractors shall be as required in Sections 00510 and 01781.

E. SWORN STATEMENT AND WAIVER OF LIENS (revised 4-11-2012)

Prior to final payment, the General Contractor shall provide a Contractor's Sworn Statement and Full Unconditional Waivers of Liens from all subcontractors for material and labor and from all suppliers who provide materials exceeding \$1,000. Sworn Statements and signed waivers from all Subcontractors must accompany Pay Applications or they will be returned for such documentation prior to approval.

ASBESTOS HAZARD

- A. The contractor shall not start any work in any area that has not been inspected for asbestos by the Owner's Industrial Hygiene Department, or a qualified representative of the Owner and approval is given for work to be done. If asbestos is found, safety measures as recommended by the Owner's Industrial Hygiene Department, or a qualified representative of the Owner, shall be completed, or approval given for work to be done before work is started. The contractor shall not perform any asbestos removal or containment work under the contract.

KEYS

- A. The Owner shall provide the contractor keys on loan to have access to the various spaces in order to complete the contract. Contractor will sign for and be responsible for each key on loan, returnable to Owner upon completion of the contract. In case of any lost keys, the Owner will backcharge the contract \$250.00 for each core change. In the event that a Contractor wants access to a secured area, he shall give the Owner a minimum 48-hour notice.

SUMMARY OF WORK

SUMMARY OF WORK

PROJECT: Tierney Alumni House Cabling

WSU PROJECT NO.: 505-259171

PROJECT MANAGER: Mark Gibbons

1. EXAMINATION

The Contractor shall visit the site and become familiar with conditions under which he will be working. Also meet with the project manager and review site access, storage areas, etc.

- 2. Description of Work –** Project includes Install CAT6 voice & data cabling throughout 4 floors of an existing, historic structure cognizant of maintaining building aesthetic. Scope includes Architectural woodwork, Plaster, Painting as well as wood flooring repairs, If necessary

- 3. The building is located at**

Wayne State University
5510 Woodward Ave., Detroit, MI. 48201
Detroit, Michigan 48202

WAYNE STATE UNIVERSITY

Tierney Alumni House Cabling
WSU Project No. 505-259171
December 1, 2015

**Project Manual for
Wayne State University
Tierney Alumni House
Detroit, Michigan**

**HAA Project No. 2013088.06
WSU Project No. 505-259171**

Owner
Wayne State University
5700 Cass Ave., Suite 4200 AAB
Detroit, Michigan 48202

Architect
Hamilton Anderson Associates
1435 Randolph, Suite 200
Detroit, Michigan 48226
Ph.: 313.964.0270
Fax: 313.964.0170

**Issued For Bidding
January 4, 2016**

000110 – TABLE OF CONTENTS

| NO. | SECTION NAME | ISSUE DATE |
|---|----------------------------|-----------------|
| INTRODUCTORY INFORMATION | | |
| 000110 | TABLE OF CONTENTS | January 4, 2016 |
| GENERAL REQUIREMENTS | | |
| 013233 | PHOTOGRAPHIC DOCUMENTATION | January 4, 2016 |
| 013300 | SUBMITTAL PROCEDURES | January 4, 2016 |
| | | |
| DIVISION 02 - EXISTING CONDITIONS | | |
| 024119 | SELECTIVE DEMOLITION | January 4, 2016 |
| DIVISION 03 – CONCRETE (NOT USED) | | |
| | | |
| DIVISION 05 – METALS (NOT USED) | | |
| | | |
| DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES | | |
| 062023 | INTERIOR FINISH CARPENTRY | January 4, 2016 |
| | | |
| DIVISION 07 - THERMAL AND MOISTURE PROTECTION (NOT USED) | | |
| | | |
| DIVISION 08 – OPENINGS (NOT USED) | | |
| | | |
| DIVISION 09 – FINISHES (NOT USED) | | |
| 090102 | PLASTER RESTORATION | January 4, 2016 |
| 092900 | WOOD RESTORATION | January 4, 2016 |
| 093013 | WOOD FLOORING | January 4, 2016 |
| 095113 | ACOUSTICAL PANEL CEILING | January 4, 2016 |
| 099123 | INTERIOR PAINTING | January 4, 2016 |
| 099123.13 | PAINT SYSTEMS SCHEDULE | January 4, 2016 |
| 099123.14 | PAINT PRODUCTS SCHEDULE | January 4, 2016 |
| DIVISION 10 – SPECIALTIES (NOT USED) | | |
| | | |
| DIVISION 12 – FURNISHINGS (NOT USED) | | |
| | | |
| DIVISION 14 – CONVEYING EQUIPMENT (NOT USED) | | |
| | | |

| NO. | SECTION NAME | ISSUE DATE |
|--|--------------|------------|
| DIVISION 20 - COMMON MECHANICAL REQUIREMENTS (NOT USED) | | |
| | | |
| DIVISION 21 – FIRE SUPPRESSION (NOT USED) | | |
| | | |
| DIVISION 22 – PLUMBING (NOT USED) | | |
| | | |
| DIVISION 23 – HEATING VENTILATING AND AIR CONDITIONING (NOT USED) | | |
| | | |
| DIVISION 26 – ELECTRICAL (NOTED ON DRAWINGS) | | |
| | | |
| DIVISION 27 – COMMUNICATIONS (NOT USED) | | |
| | | |
| DIVISION 28 – ELECTRONIC SAFETY AND SECURITY (NOT USED) | | |
| | | |

SECTION 013233 - PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Preconstruction photographs.
 - 2. Periodic construction photographs.
- B. Related Requirements:
 - 1. Division 01 Section "Closeout Procedures" for submitting photographic documentation as Project Record Documents at Project closeout.

1.3 INFORMATIONAL SUBMITTALS

- A. Key Plan: Submit key plan of Project site and relevant building areas with notation of vantage points marked for location and direction of each photograph. Indicate elevation or story of construction. Include same information as corresponding photographic documentation.
- B. Digital Photographs: Submit unaltered, original, full-size image files within three days of taking photographs.
 - 1. Digital Camera: Minimum sensor resolution of 8 megapixels.
 - 2. Identification: Provide the following information with each image description in file metadata tag:
 - a. Name of Project.
 - b. Name and contact information for photographer.
 - c. Date photograph was taken.
 - d. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.

1.4 QUALITY ASSURANCE

- A. Photographer Qualifications: An individual who has been regularly engaged as a professional photographer of construction projects for not less than three years.

1.5 USAGE RIGHTS

- A. Obtain and transfer copyright usage rights from photographer to Owner for unlimited reproduction of photographic documentation.

PART 2 - PRODUCTS

2.1 PHOTOGRAPHIC MEDIA

- A. Digital Images: Provide images in JPG format, with minimum size of 8 megapixels.

PART 3 - EXECUTION

3.1 CONSTRUCTION PHOTOGRAPHS

- A. Photographer: Engage a qualified photographer to take construction photographs.
- B. General: Take photographs using the maximum range of depth of field, and that are in focus, to clearly show the Work. Photographs with blurry or out-of-focus areas will not be accepted.
 - 1. Maintain key plan with each set of construction photographs that identifies each photographic location.
- C. Digital Images: Submit digital images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.
 - 1. Date and Time: Include date and time in file name for each image.
 - 2. Field Office Images: Maintain one set of images accessible in the field office at Project site, available at all times for reference. Identify images in the same manner as those submitted to Architect and Construction Manager.
- D. Preconstruction Photographs: Before commencement of demolition, take photographs of Project site, building interior, and surrounding areas, including existing items to remain during construction, from different vantage points, as directed by Architect.
 - 1. Flag construction limits before taking construction photographs.
 - 2. Take 20 photographs to show existing conditions adjacent to property before starting the Work.
 - 3. Take 20 photographs of existing areas either on or adjoining the work area to accurately record physical conditions at start of construction.
 - 4. Take additional photographs as required to record settlement or cracking of adjacent structures, pavements, and improvements.
- E. Periodic Construction Photographs: Take 20 photographs weekly, with timing each month adjusted to coincide with the cutoff date associated with each Application for Payment. Select vantage points to show status of construction and progress since last photographs were taken.

- F. Final Completion Construction Photographs: Take 20 color photographs after date of Substantial Completion for submission as Project Record Documents. Architect will inform photographer of desired vantage points.
- G. Additional Photographs: Architect or Construction Manager may request photographs in addition to periodic photographs specified. Additional photographs will be paid for by Change Order and are not included in the Contract Sum.
 - 1. Three days' notice will be given, where feasible.
 - 2. In emergency situations, take additional photographs within 24 hours of request.
 - 3. Circumstances that could require additional photographs include, but are not limited to, the following:
 - a. Special events planned at Project site.
 - b. Immediate follow-up when on-site events result in construction damage or losses.
 - c. Photographs to be taken at fabrication locations away from Project site. These photographs are not subject to unit prices or unit-cost allowances.
 - d. Substantial Completion of a major phase or component of the Work.
 - e. Extra record photographs at time of final acceptance.
 - f. Owner's request for special publicity photographs.

END OF SECTION 013233

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Architect's and Construction Manager's responsive action.
- B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's and Construction Manager's responsive action. Submittals may be rejected for not complying with requirements.

1.4 ACTION SUBMITTALS

- A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and Construction Manager and additional time for handling and reviewing submittals required by those corrections.

1.5 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Architect's Digital Data Files: Electronic copies of digital data files of the Contract Drawings will be provided by Architect for Contractor's use in preparing submittals.
 - 1. Architect will furnish Contractor one set of digital data drawing files of the Contract Drawings for use in preparing Shop Drawings.
 - a. Architect makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
 - b. Contractor shall execute a data licensing agreement in the form of Agreement included in Project Manual.

- c. Conditions: Refer to Division 01 Sections "Electronic CAD Files" and "Data Transfer Forms."
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect and Construction Manager reserve the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 3. Resubmittal Review: Allow 15 days for review of each resubmittal.
- D. Paper Submittals: Place a permanent label or title block on each submittal item for identification.
 1. Indicate name of firm or entity that prepared each submittal on label or title block.
 2. Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor's review and approval markings and action taken by Architect and Construction Manager.
 3. Include the following information for processing and recording action taken:
 - a. Project name.
 - b. Date.
 - c. Name of Architect.
 - d. Name of Construction Manager.
 - e. Name of Contractor.
 - f. Name of subcontractor.
 - g. Name of supplier.
 - h. Name of manufacturer.
 - i. Submittal number or other unique identifier, including revision identifier.
 - 1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals

shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).

- j. Number and title of appropriate Specification Section.
 - k. Drawing number and detail references, as appropriate.
 - l. Location(s) where product is to be installed, as appropriate.
 - m. Other necessary identification.
4. Additional Paper Copies: Unless additional copies are required for final submittal, and unless Architect or Construction Manager observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.
- a. Submit one copy of submittal to concurrent reviewer in addition to specified number of copies to Architect and Construction Manager.
5. Transmittal for Paper Submittals: Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Architect and Construction Manager will return without review submittals received from sources other than Contractor.
- a. Transmittal Form for Paper Submittals: Use AIA Document G810, CSI Form 12.1A, or approved software generated equivalent.
 - b. Transmittal Form for Paper Submittals: Provide locations on form for the following information:
 - 1) Project name.
 - 2) Date.
 - 3) Destination (To:).
 - 4) Source (From:).
 - 5) Name and address of Architect.
 - 6) Name of Construction Manager.
 - 7) Name of Contractor.
 - 8) Name of firm or entity that prepared submittal.
 - 9) Names of subcontractor, manufacturer, and supplier.
 - 10) Category and type of submittal.
 - 11) Submittal purpose and description.
 - 12) Specification Section number and title.
 - 13) Specification paragraph number or drawing designation and generic name for each of multiple items.
 - 14) Drawing number and detail references, as appropriate.
 - 15) Indication of full or partial submittal.
 - 16) Transmittal number.
 - 17) Submittal and transmittal distribution record.
 - 18) Remarks.
 - 19) Signature of transmitter.
- E. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:

1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
 2. Name file with submittal number or other unique identifier, including revision identifier.
 - a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-061000.01.A).
 3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect and Construction Manager.
 4. Transmittal Form for Electronic Submittals: Use software-generated form from electronic project management software or electronic form acceptable to Owner, containing the following information:
 - a. Project name.
 - b. Date.
 - c. Name and address of Architect.
 - d. Name of Construction Manager.
 - e. Name of Contractor.
 - f. Name of firm or entity that prepared submittal.
 - g. Names of subcontractor, manufacturer, and supplier.
 - h. Category and type of submittal.
 - i. Submittal purpose and description.
 - j. Specification Section number and title.
 - k. Specification paragraph number or drawing designation and generic name for each of multiple items.
 - l. Drawing number and detail references, as appropriate.
 - m. Location(s) where product is to be installed, as appropriate.
 - n. Related physical samples submitted directly.
 - o. Indication of full or partial submittal.
 - p. Transmittal number[, numbered consecutively].
 - q. Submittal and transmittal distribution record.
 - r. Other necessary identification.
 - s. Remarks.
 5. Metadata: Include the following information as keywords in the electronic submittal file metadata:
 - a. Project name.
 - b. Number and title of appropriate Specification Section.
 - c. Manufacturer name.
 - d. Product name.
- F. Options: Identify options requiring selection by Architect.
- G. Deviations: Identify deviations from the Contract Documents on submittals.

- H. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
 - 1. Note date and content of previous submittal.
 - 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 - 3. Resubmit submittals until they are marked with approval notation from Architect's and Construction Manager's action stamp.
- I. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- J. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's and Construction Manager's action stamp.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements:
 - 1. Post electronic submittals as PDF electronic files directly to Architect's FTP site specifically established for Project.
 - a. Architect, through Construction Manager, will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.
 - 2. Submit electronic submittals via email as PDF electronic files.
 - a. Architect, through Construction Manager, will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.
 - 3. Action Submittals: Submit PDF electronic files or three paper copies of each submittal unless otherwise indicated. Architect, through Construction Manager, will return annotated file or two paper copies.
 - 4. Informational Submittals: Submit PDF electronic files or two paper copies of each submittal unless otherwise indicated. Architect and Construction Manager will not return copies.
 - 5. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - a. Provide a digital signature with digital certificate on electronically-submitted certificates and certifications where indicated.

- b. Provide a notarized statement on original paper copy certificates and certifications where indicated.
 - B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
 1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
 2. Mark each copy of each submittal to show which products and options are applicable.
 3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.
 4. For equipment, include the following in addition to the above, as applicable:
 - a. Wiring diagrams showing factory-installed wiring.
 - b. Printed performance curves.
 - c. Operational range diagrams.
 - d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
 5. Submit Product Data before or concurrent with Samples.
 6. Submit Product Data in the following format:
 - a. PDF electronic file.
 - b. Three paper copies of Product Data unless otherwise indicated. Architect, through Construction Manager, will return two copies.
 - C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless submittal based on Architect's digital data drawing files is otherwise permitted.
 1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.

2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches, but no larger than 30 by 42 inches.
 3. Submit Shop Drawings in the following format:
 - a. PDF electronic file.
 - b. Two opaque (bond) copies of each submittal. Architect, through Construction Manager, will return one copy.
- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 2. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of applicable Specification Section.
 3. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
 4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
 - b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
 5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit one full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect, through Construction Manager, will return submittal with options selected.
 6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing

color, texture, and pattern; color range sets; and components used for independent testing and inspection.

- a. Number of Samples: Submit three sets of Samples. Architect and Construction Manager will retain two Sample sets; remainder will be returned. Mark up and retain one returned Sample set as a project record sample.

- 1) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.

- E. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:

1. Submit product schedule in the following format:

- a. PDF electronic file.
- b. Three paper copies of product schedule or list unless otherwise indicated. Architect, through Construction Manager, will return two copies.

- F. Coordination Drawings Submittals: Comply with requirements specified in Division 01 Section "Project Management and Coordination."
- G. Contractor's Construction Schedule: Comply with requirements specified in Division 01 Section "Construction Progress Documentation."
- H. Application for Payment and Schedule of Values: Comply with requirements specified in Division 01 Section "Payment Procedures."
- I. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Division 01 Section "Quality Requirements."
- J. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Division 01 Section "Closeout Procedures."
- K. Maintenance Data: Comply with requirements specified in Division 01 Section "Operation and Maintenance Data."
- L. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- M. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.

- N. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
- O. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
- P. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- Q. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
- R. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
- S. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
- T. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project.
- U. Schedule of Tests and Inspections: Comply with requirements specified in Division 01 Section "Quality Requirements."
- V. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
- W. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.
- X. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
- Y. Design Data: Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

2.2 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF electronic file and three paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
 - 1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect and Construction Manager.
- B. Project Closeout and Maintenance Material Submittals: See requirements in Division 01 Section "Closeout Procedures."
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S AND CONSTRUCTION MANAGER'S ACTION

- A. General: Architect and Construction Manager will not review submittals that do not bear Contractor's approval stamp and will return them without action.
- B. Action Submittals: Architect and Construction Manager will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect and Construction Manager will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.

- C. Informational Submittals: Architect and Construction Manager will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect and Construction Manager will forward each submittal to appropriate party.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

END OF SECTION 013300

SECTION 013516 - ALTERATION PROJECT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes special procedures for alteration work.

1.3 DEFINITIONS

- A. Alteration Work: This term includes remodeling, renovation, repair, and maintenance work performed within existing spaces or on existing surfaces as part of the Project.
- B. Consolidate: To strengthen loose or deteriorated materials in place.
- C. Design Reference Sample: A sample that represents the Architect's prebid selection of work to be matched; it may be existing work or work specially produced for the Project.
- D. Dismantle: To remove by disassembling or detaching an item from a surface, using gentle methods and equipment to prevent damage to the item and surfaces; disposing of items unless indicated to be salvaged or reinstalled.
- E. Match: To blend with adjacent construction and manifest no apparent difference in material type, species, cut, form, detail, color, grain, texture, or finish; as approved by Architect.
- F. Refinish: To remove existing finishes to base material and apply new finish to match original, or as otherwise indicated.
- G. Repair: To correct damage and defects, retaining existing materials, features, and finishes. This includes patching, piecing-in, splicing, consolidating, or otherwise reinforcing or upgrading materials.
- H. Replace: To remove, duplicate, and reinstall entire item with new material. The original item is the pattern for creating duplicates unless otherwise indicated.
- I. Replicate: To reproduce in exact detail, materials, and finish unless otherwise indicated.
- J. Reproduce: To fabricate a new item, accurate in detail to the original, and from either the same or a similar material as the original, unless otherwise indicated.

- K. Retain: To keep existing items that are not to be removed or dismantled.
- L. Strip: To remove existing finish down to base material unless otherwise indicated.

1.4 PROJECT MEETINGS FOR ALTERATION WORK

- A. Preliminary Conference for Alteration Work: Before starting alteration work, Construction Manager will conduct conference at Project site.
 - 1. Attendees: In addition to representatives of Owner, Architect, and Contractor, testing service representative, and chemical-cleaner manufacturer(s) shall be represented at the meeting.
 - 2. Agenda: Discuss items of significance that could affect progress of alteration work, including review of the following:
 - a. Fire-prevention plan.
 - b. Governing regulations.
 - c. Areas where existing construction is to remain and the required protection.
 - d. Hauling routes.
 - e. Sequence of alteration work operations.
 - f. Storage, protection, and accounting for salvaged and specially fabricated items.
 - g. Existing conditions, staging, and structural loading limitations of areas where materials are stored.
 - 3. Reporting: Record conference results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from conference.

1.5 MATERIALS OWNERSHIP

- A. Historic items, relics, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, antiques, and other items of interest or value to Owner that may be encountered or uncovered during the Work, regardless of whether they were previously documented, remain Owner's property.

1.6 INFORMATIONAL SUBMITTALS

- A. Alteration Work Program: Submit 30 days before work begins.
- B. Fire-Prevention Plan: Submit 30 days before work begins.

1.7 QUALITY ASSURANCE

- A. Title X Requirement: Each firm conducting activities that disturb painted surfaces shall be a "Lead-Safe Certified Firm" according to 40 CFR 745, Subpart E, and use only workers that are trained in lead-safe work practices.

- B. Alteration Work Program: Prepare a written plan for alteration work for whole Project, including each phase or process and protection of surrounding materials during operations. Show compliance with indicated methods and procedures specified in this and other Sections. Coordinate this whole-Project alteration work program with specific requirements of programs required in other alteration work Sections.
 - 1. Dust and Noise Control: Include locations of proposed temporary dust- and noise-control partitions and means of egress from occupied areas coordinated with continuing on-site operations and other known work in progress.
 - 2. Debris Hauling: Include plans clearly marked to show debris hauling routes, turning radii, and locations and details of temporary protective barriers.
- C. Fire-Prevention Plan: Prepare a written plan for preventing fires during the Work, including placement of fire extinguishers, fire blankets, rag buckets, and other fire-control devices during each phase or process. Coordinate plan with Owner's fire-protection equipment and requirements. Include fire-watch personnel's training, duties, and authority to enforce fire safety.
- D. Safety and Health Standard: Comply with ANSI/ASSE A10.6.

1.8 STORAGE AND HANDLING OF SALVAGED MATERIALS

- A. Salvaged Materials:
 - 1. Clean loose dirt and debris from salvaged items unless more extensive cleaning is indicated.
 - 2. Pack or crate items after cleaning; cushion against damage during handling. Label contents of containers.
 - 3. Store items in a secure area until delivery to Owner.
 - 4. Transport items to Owner's storage area designated by Owner.
 - 5. Protect items from damage during transport and storage.
- B. Salvaged Materials for Reinstallation:
 - 1. Repair and clean items for reuse as indicated.
 - 2. Pack or crate items after cleaning and repairing; cushion against damage during handling. Label contents of containers.
 - 3. Protect items from damage during transport and storage.
 - 4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment unless otherwise indicated. Provide connections, supports, and miscellaneous materials to make items functional for use indicated.
- C. Existing Materials to Remain: Protect construction indicated to remain against damage and soiling from construction work. Where permitted by Architect, items may be dismantled and taken to a suitable, protected storage location during construction work and reinstalled in their original locations after alteration and other construction work in the vicinity is complete.

- D. Storage: Catalog and store items within a weathertight enclosure where they are protected from moisture, weather, condensation, and freezing temperatures.
1. Identify each item for reinstallation with a nonpermanent mark to document its original location. Indicate original locations on plans, elevations, sections, or photographs by annotating the identifying marks.
 2. Secure stored materials to protect from theft.
 3. Control humidity so that it does not exceed 85 percent. Maintain temperatures 5 deg F or more above the dew point.

PART 2 - PRODUCTS - (Not Used)

PART 3 - EXECUTION

3.1 PROTECTION

- A. Protect persons, motor vehicles, surrounding surfaces of building, building site, plants, and surrounding buildings from harm resulting from alteration work.
1. Use only proven protection methods, appropriate to each area and surface being protected.
 2. Provide temporary barricades, barriers, and directional signage to exclude the public from areas where alteration work is being performed.
 3. Erect temporary barriers to form and maintain fire-egress routes.
 4. Erect temporary protective covers over walkways and at points of pedestrian and vehicular entrance and exit that must remain in service during alteration work.
 5. Contain dust and debris generated by alteration work, and prevent it from reaching the public or adjacent surfaces.
 6. Provide shoring, bracing, and supports as necessary. Do not overload structural elements.
 7. Protect floors and other surfaces along hauling routes from damage, wear, and staining.
 8. Provide supplemental sound-control treatment to isolate demolition work from other areas of the building.
- B. Temporary Protection of Materials to Remain:
1. Protect existing materials with temporary protections and construction. Do not remove existing materials unless otherwise indicated.
 2. Do not attach temporary protection to existing surfaces except as indicated as part of the alteration work program.
- C. Comply with each product manufacturer's written instructions for protections and precautions. Protect against adverse effects of products and procedures on people and adjacent materials, components, and vegetation.
- D. Utility and Communications Services:

1. Notify Owner, Architect, authorities having jurisdiction, and entities owning or controlling wires, conduits, pipes, and other services affected by alteration work before commencing operations.
 2. Disconnect and cap pipes and services as required by authorities having jurisdiction, as required for alteration work.
 3. Maintain existing services unless otherwise indicated; keep in service, and protect against damage during operations. Provide temporary services during interruptions to existing utilities.
- E. Existing Drains: Prior to the start of work in an area, test drainage system to ensure that it is functioning properly. Notify Architect immediately of inadequate drainage or blockage. Do not begin work in an area until the drainage system is functioning properly.
1. Prevent solids such as adhesive or mortar residue or other debris from entering the drainage system. Clean out drains and drain lines that become sluggish or blocked by sand or other materials resulting from alteration work.
 2. Protect drains from pollutants. Block drains or filter out sediments, allowing only clean water to pass.
- F. Existing Roofing: Prior to the start of work in an area, install roofing protection.

3.2 PROTECTION FROM FIRE

- A. General: Follow fire-prevention plan and the following:
1. Comply with NFPA 241 requirements unless otherwise indicated. Perform duties titled "Owner's Responsibility for Fire Protection."
 2. Remove and keep area free of combustibles, including rubbish, paper, waste, and chemicals, unless necessary for the immediate work.
 - a. If combustible material cannot be removed, provide fire blankets to cover such materials.
- B. Heat-Generating Equipment and Combustible Materials: Comply with the following procedures while performing work with heat-generating equipment or combustible materials, including welding, torch-cutting, soldering, brazing, removing paint with heat, or other operations where open flames or implements using high heat or combustible solvents and chemicals are anticipated:
1. Obtain Owner's approval for operations involving use of welding or other high-heat equipment. Use of open-flame equipment is not permitted. Notify Owner at least 72 hours before each occurrence, indicating location of such work.
 2. As far as practicable, restrict heat-generating equipment to shop areas or outside the building.
 3. Do not perform work with heat-generating equipment in or near rooms or in areas where flammable liquids or explosive vapors are present or thought to be present. Use a combustible gas indicator test to ensure that the area is safe.

4. Use fireproof baffles to prevent flames, sparks, hot gases, or other high-temperature material from reaching surrounding combustible material.
 5. Prevent the spread of sparks and particles of hot metal through open windows, doors, holes, and cracks in floors, walls, ceilings, roofs, and other openings.
 6. Fire Watch: Before working with heat-generating equipment or combustible materials, station personnel to serve as a fire watch at each location where such work is performed. Fire-watch personnel shall have the authority to enforce fire safety. Station fire watch according to NFPA 51B, NFPA 241, and as follows:
 - a. Train each fire watch in the proper operation of fire-control equipment and alarms.
 - b. Prohibit fire-watch personnel from other work that would be a distraction from fire-watch duties.
 - c. Cease work with heat-generating equipment whenever fire-watch personnel are not present.
 - d. Have fire-watch personnel perform final fire-safety inspection each day beginning no sooner than 30 minutes after conclusion of work in each area to detect hidden or smoldering fires and to ensure that proper fire prevention is maintained.
 - e. Maintain fire-watch personnel at each area of Project site until 60 minutes after conclusion of daily work.
- C. Fire-Control Devices: Provide and maintain fire extinguishers, fire blankets, and rag buckets for disposal of rags with combustible liquids. Maintain each as suitable for the type of fire risk in each work area. Ensure that nearby personnel and the fire-watch personnel are trained in fire-extinguisher and blanket use.
- D. Sprinklers: Where sprinkler protection exists and is functional, maintain it without interruption while operations are being performed. If operations are performed close to sprinklers, shield them temporarily with guards.
1. Remove temporary guards at the end of work shifts, whenever operations are paused, and when nearby work is complete.

3.3 PROTECTION DURING APPLICATION OF CHEMICALS

- A. Protect motor vehicles, surrounding surfaces of building, building site, plants, and surrounding buildings from harm or spillage resulting from applications of chemicals and adhesives.
- B. Cover adjacent surfaces with protective materials that are proven to resist chemicals selected for Project unless chemicals being used will not damage adjacent surfaces as indicated in alteration work program. Use covering materials and masking agents that are waterproof and UV resistant and that will not stain or leave residue on surfaces to which they are applied. Apply protective materials according to manufacturer's written instructions. Do not apply liquid masking agents or adhesives to painted or porous surfaces. When no longer needed, promptly remove protective materials.
- C. Do not apply chemicals during winds of sufficient force to spread them to unprotected surfaces.
- D. Neutralize alkaline and acid wastes and legally dispose of off Owner's property.

- E. Collect and dispose of runoff from chemical operations by legal means and in a manner that prevents soil contamination, soil erosion, undermining of paving and foundations, damage to landscaping, or water penetration into building interior.

3.4 GENERAL ALTERATION WORK

- A. Record existing work before each procedure (preconstruction), and record progress during the work. Use digital preconstruction documentation photographs or video recordings. Comply with requirements in Division 01 Section "Photographic Documentation."
- B. Perform surveys of Project site as the Work progresses to detect hazards resulting from alterations.
- C. Notify Architect of visible changes in the integrity of material or components whether from environmental causes including biological attack, UV degradation, freezing, or thawing or from structural defects including cracks, movement, or distortion.
 - 1. Do not proceed with the work in question until directed by Architect.

END OF SECTION 013516

SECTION 024119 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Demolition and removal of selected portions of building or structure.
 - 2. Demolition and removal of selected site elements.
 - 3. Salvage of existing items to be reused or recycled.

1.3 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall where indicated.
- C. Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.4 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
 - 1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.5 PREINSTALLATION MEETINGS

- A. Predemolition Conference: Conduct conference at Project site.

1. Inspect and discuss condition of construction to be selectively demolished.
2. Review structural load limitations of existing structure.
3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
5. Review areas where existing construction is to remain and requires protection.

1.6 INFORMATIONAL SUBMITTALS

- A. Proposed Protection Measures: Submit report, including drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and, for noise control. Indicate proposed locations and construction of barriers.
- B. Schedule of Selective Demolition Activities: Indicate the following:
 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
 2. Interruption of utility services. Indicate how long utility services will be interrupted.
 3. Coordination for shutoff, capping, and continuation of utility services.
 4. Use of elevator and stairs.
 5. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
- C. Inventory: Submit a list of items to be removed and salvaged and deliver to Owner prior to start of demolition.
- D. Predemolition Photographs or Video which documents all work areas: Submit before Work begins.
- E. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.

1.7 CLOSEOUT SUBMITTALS

- A. Inventory: Submit a list of items that have been removed and salvaged.
- B. Landfill Records: (Hazardous waste only): Hazardous waste removal under separate contract.

1.8 QUALITY ASSURANCE

- A. Refrigerant Recovery Technician Qualifications: Certified by an EPA-approved certification program.

1.9 FIELD CONDITIONS

- A. Building is unoccupied and will remain unoccupied during demolition and construction.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
 - 1. Before selective demolition, Owner will remove the following items:
 - a. Loose furnishings.
 - b. Artwork.
 - c. Tackboards.
 - d. File storage system.
- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. Hazardous materials will be removed by Owner before start of the Work.
 - 2. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
- E. Storage or sale of removed items or materials on-site is not permitted.
- F. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.

1.10 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Review record documents of existing construction provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in record documents.
- C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect in the form of a Request for Information (RFI).
- E. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.
 - 1. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.
 - 2. Steel Tendons: Locate tensioned steel tendons and include recommendations for de-tensioning.
- F. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs.
 - 1. Comply with requirements specified in Division 01 Section "Photographic Documentation."
 - 2. Inventory and record the condition of items to be removed and salvaged. Provide photographs of conditions that might be misconstrued as damage caused by salvage operations.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
 - 1. Comply with requirements for existing services/systems interruptions specified in Division 01 Section "Summary."
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.

1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
2. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
3. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 - d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
 - e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
 - f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
 - g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material.

3.3 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 1. Comply with requirements for access and protection specified in Division 01 Section "Temporary Facilities and Controls."
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 1. Provide protection to ensure safe passage of people around selective demolition area.
 2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
 3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
 4. Cover and protect furniture, furnishings, and equipment that have not been removed.
 5. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Division 01 Section "Temporary Facilities and Controls."
- C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

1. Strengthen or add new supports when required during progress of selective demolition.

3.4 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Protect all areas under construction. Any areas damaged by construction activities are to be restored to the condition prior to construction.
2. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
3. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
4. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
5. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations.
6. Maintain adequate ventilation when using cutting torches.
7. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
8. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
9. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
10. Dispose of demolished items and materials promptly. Comply with requirements in Division 01 Section "Construction Waste Management and Disposal."

- B. Removed and Reinstalled Items:

1. Clean and repair items to functional condition adequate for intended reuse.
2. Pack or crate items after cleaning and repairing. Identify contents of containers.
3. Protect items from damage during transport and storage.
4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

- C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.5 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals using power-driven saw, then remove concrete between saw cuts.
- B. Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, then remove masonry between saw cuts.
- C. Concrete Slabs-on-Grade: Saw-cut perimeter of area to be demolished, then break up and remove.
- D. Resilient Floor Coverings: Remove floor coverings and adhesive according to recommendations in RFCI's "Recommended Work Practices for the Removal of Resilient Floor Coverings."

3.6 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.
 - 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
 - 4. Comply with requirements specified in Division 01 Section "Construction Waste Management and Disposal."
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

3.7 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.
- B. At the end of the Work, all interior glass surfaces are to be cleaned.

3.8 SELECTIVE DEMOLITION SCHEDULE

- A. Existing Items and Construction to Be Removed: As indicated on AD series drawings.
- B. Existing Items to Be Removed and Reinstalled: As indicated on AD series drawings.
- C. Existing Items to Remain: As indicated on AD series drawings.

Wayne State University
Tierney Alumni House
Detroit, Michigan

Issued For Bids
January 4, 2016
HAA Project No. 2013088.01
WSU Project No. 505-259171

END OF SECTION 024119

SECTION 062023 - INTERIOR FINISH CARPENTRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Interior trim

1.3 DEFINITIONS

- A. MDF: Medium-density fiberboard.
- B. MDO: Plywood with a medium-density overlay on the face.

1.4 ACTION SUBMITTALS

- A. Samples: For each type of product involving selection of colors, profiles, or textures.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Stack lumber, plywood, and other panels flat with spacers between each bundle to provide air circulation. Protect materials from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.
- B. Deliver interior finish carpentry materials only when environmental conditions meet requirements specified for installation areas. If interior finish carpentry materials must be stored in other than installation areas, store only where environmental conditions meet requirements specified for installation areas.

1.6 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install interior finish carpentry materials until building is enclosed and weatherproof, wet work in space is completed and nominally dry, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

- B. Do not install finish carpentry materials that are wet, moisture damaged, or mold damaged.
 - 1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Lumber: DOC PS 20 and the following grading rules:
 - 1. NeLMA: Northeastern Lumber Manufacturers' Association, "Standard Grading Rules for Northeastern Lumber."
 - 2. NHLA: National Hardwood Lumber Association, "Rules for the Measurement and Inspection of Hardwood & Cypress."
 - 3. NLGA: National Lumber Grades Authority, "Standard Grading Rules for Canadian Lumber."
 - 4. SPIB: The Southern Pine Inspection Bureau, "Standard Grading Rules for Southern Pine Lumber."
 - 5. WCLIB: West Coast Lumber Inspection Bureau, Standard No. 17, "Grading Rules for West Coast Lumber."
 - 6. WWPA: Western Wood Products Association, "Western Lumber Grading Rules."

2.2 INTERIOR TRIM

- A. Match existing trim where being replaced in species and color:

2.3 MISCELLANEOUS MATERIALS

- A. Fasteners for Interior Finish Carpentry: Nails, screws, and other anchoring devices of type, size, material, and finish required for application indicated to provide secure attachment, concealed where possible.
- B. Low-Emitting Materials: Adhesives shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- C. Glue: Aliphatic-resin, polyurethane, or resorcinol wood glue recommended by manufacturer for general carpentry use.
 - 1. Wood glue shall have a VOC content of 30 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

- D. Multipurpose Construction Adhesive: Formulation complying with ASTM D 3498 that is recommended for indicated use by adhesive manufacturer.
 - 1. Adhesive shall have a VOC content of 70 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Examine finish carpentry materials before installation. Reject materials that are wet, moisture damaged, and mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrates of projections and substances detrimental to application.
- B. Before installing interior finish carpentry, condition materials to average prevailing humidity in installation areas for a minimum of 24 hours.

3.3 INSTALLATION, GENERAL

- A. Do not use materials that are unsound, warped, improperly treated or finished, inadequately seasoned, too small to fabricate with proper jointing arrangements, or with defective surfaces, sizes, or patterns.
- B. Install interior finish carpentry level, plumb, true, and aligned with adjacent materials. Use concealed shims where necessary for alignment.
 - 1. Scribe and cut interior finish carpentry to fit adjoining work. Refinish and seal cuts as recommended by manufacturer.
 - 2. Where face fastening is unavoidable, countersink fasteners, fill surface flush, and sand unless otherwise indicated.
 - 3. Install to tolerance of 1/8 inch in 96 inches (3 mm in 2438 mm) for level and plumb. Install adjoining interior finish carpentry with 1/32-inch (0.8-mm) maximum offset for flush installation and 1/16-inch (1.5-mm) maximum offset for reveal installation.
 - 4. Install stairs with no more than 3/16-inch (4.7-mm) variation between adjacent treads and risers and with no more than 3/8-inch (9.5-mm) variation between largest and smallest treads and risers within each flight.

5. Coordinate interior finish carpentry with materials and systems in or adjacent to it. Provide cutouts for mechanical and electrical items that penetrate interior finish carpentry.

3.4 STANDING AND RUNNING TRIM INSTALLATION

- A. Install with minimum number of joints practical, using full-length pieces from maximum lengths of lumber available. Do not use pieces less than 24 inches (610 mm) long, except where necessary. Stagger joints in adjacent and related standing and running trim. Miter at returns, miter at outside corners, and cope at inside corners to produce tight-fitting joints with full-surface contact throughout length of joint. Use scarf joints for end-to-end joints. Plane backs of casings to provide uniform thickness across joints where necessary for alignment.
 1. Match color and grain pattern of trim for transparent finish (stain or clear finish) across joints.
 2. Install trim after gypsum-board joint finishing operations are completed.
 3. Install without splitting; drill pilot holes before fastening where necessary to prevent splitting. Fasten to prevent movement or warping. Countersink fastener heads on exposed carpentry work and fill holes.

3.5 ADJUSTING

- A. Replace interior finish carpentry that is damaged or does not comply with requirements. Interior finish carpentry may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing. Adjust joinery for uniform appearance.

3.6 CLEANING

- A. Clean interior finish carpentry on exposed and semiexposed surfaces. Restore damaged or soiled areas and touch up factory-applied finishes, if any.

3.7 PROTECTION

- A. Protect installed products from damage from weather and other causes during construction.
- B. Remove and replace finish carpentry materials that are wet, moisture damaged, and mold damaged.
 1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 062023

SECTION 09 01 20.91 - PLASTER RESTORATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Restoration of interior flat gypsum plaster walls and ceilings.
 - 2. In-place repair of interior ornamental plaster.

1.3 REFERENCES

- A. Reference Standards:
 - 1. Perform Work according to the following standards.
 - 2. Maintain copies of each standard affecting the Work of this Section on Site.
 - a. NPS Preservation Brief No. 21 - Repairing Historic Flat Plaster - Walls and Ceilings
 - b. NPS Preservation Brief No. 23 - Preserving Historic Ornamental Plaster.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meetings: Conduct meeting at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."
 - 1. Convene minimum prior to commencing work of this Section.
 - 2. Attendance Required: Architect, Owner, Contractor, installer, and other parties directly affecting or affected by work of this Section.
 - 3. Review methods and procedures related to work of this Section including, but not limited to, the following:
 - a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Inspect and discuss condition of substrates and other preparatory work performed by other trades.
 - c. Review structural load limitations and condition of existing support framing.
 - d. Review preparation and other requirements for performing work of this Section.
 - e. Discuss and agree upon quality control procedures.

1.5 ACTION SUBMITTALS

- A. Product Data: for each type of product.

1.6 INFORMATIONAL SUBMITTALS

- A. Preconstruction Test Reports: Existing mortar analysis.
- B. Qualification Statements:
 - 1. Qualification Data: Verifying qualifications and years of experience for installer. Include list of completed projects having similar scope of Work identified by name, location, date, reference names, and phone numbers.
- C. Mix Designs: for each type of plaster. Include description of type and proportions of ingredients.
- D. Cold-Weather and Hot-Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements.

1.7 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Installer Qualifications: Company specializing in restoring plaster comparable in material, design, and extent to that indicated for this Project, and whose work has a record of successful in-service performance with the following qualifications:
 - a. Company Experience: Minimum five years under current organizational structure.
 - b. Project Experience: Minimum five years experience on at least five projects of similar nature in past five years.
- B. Preconstruction Testing: Engage a qualified testing agency to perform preconstruction testing on existing plaster.
 - 1. Remove 4 samples of existing plaster from different locations.
 - 2. Retain one sample for later comparison.
 - 3. Break up remaining samples individually with mallet until constituent parts remain. Examine under microscope to determine:
 - a. Approximate proportions of aggregate, cement, and lime.
 - b. Type, size, and color of aggregate.
 - c. Presence of fillers and types of additives.
- C. Field Mockups: Build mockups to demonstrate aesthetic effects and qualities of materials and execution and set quality standard for restoration work.
 - 1. Location: As directed.
 - 2. Size: 10 feet long by 8 feet wide.
 - 3. Include lath, plaster, each surface texture, and each color.
 - 4. Illustrate materials, profiles, finishes, and attachment.

5. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
6. Approval of mockups is also for other material and construction qualities specifically approved by Architect in writing.
7. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups, unless such deviations are specifically approved by Architect in writing.
8. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Delivery Requirements: Deliver materials in manufacturer's undamaged packaging, complete with installation instructions.
- B. Storage and Handling Requirements: Store materials off ground, under cover, protected from weather, direct sunlight, construction activities and at temperature conditions recommended by manufacturer.
- C. Store sand to prevent inclusion of foreign matter.

1.9 FIELD CONDITIONS

- A. Ambient Conditions:
 1. Gypsum and Ornamental Plaster:
 - a. Do not apply plaster when ambient or substrate temperature is less than 50 degrees F or more than 85 degrees F.
 - b. Maintain minimum ambient temperature of 50 degrees F during and after application of plaster.

PART 2 - PRODUCTS

2.1 LATH

- A. Sustainability Requirements for Metal Products: As specified in Division 05 Section "Common Sustainability Requirements for Metal."
- B. Expanded-Metal Lath: ASTM C 847, cold-rolled carbon-steel sheet, ASTM A 653/A 653M, G60, hot-dip galvanized zinc coated.
 1. Paper Backing: FS UU-B-790, Type I, Grade D, Style 2 vapor-permeable paper.
 2. Diamond-Mesh Lath: Flat over open backing; self-furring over solid backing, 3.4 lb/sq. yd.

2.2 TRIM ACCESSORIES

- A. General: Comply with ASTM C 841 for gypsum plaster and coordinate depth of trim and accessories with thicknesses and number of plaster coats required.

Wayne State University
Tierney Alumni House
Detroit, Michigan

Issued For Bids
January 4, 2016
HAA Project No. 2013088.01
WSU Project No. 505-259171

- B. Metal Accessories: Fabricated from zinc; shapes as required to match original.

2.3 GYPSUM PLASTER MATERIALS

- A. Gypsum: ASTM C 22.
- B. Aggregate: Natural or manufactured sand, size, color, and texture to match existing.
- C. Additives: As determined by existing plaster analysis, to match existing plaster.

2.4 ORNAMENTAL PLASTER MATERIALS

- A. Gypsum Plaster: ASTM C 28.
- B. Lime: ASTM C 206, Type N, normal finishing hydrated lime.
- C. Adhesive: Waterproof type, formulated for bonding gypsum based products.
- D. Molding Material: Urethane, 30 durometer hardness.
- E. Templates: Wood or metal.
- F. Patching Compound: Gypsum based.

2.5 GYPSUM PLASTER MIXES

- A. Scratch, Brown, and Finish Coats: Mix gypsum, additives, and aggregate in proportions to match existing plaster. Add water to achieve workable consistency.
- B. Patching Compound: Mix with water in accordance with manufacturer's instructions.

2.6 ORNAMENTAL PLASTER MIXES

- A. Plaster: Mix gypsum, lime, and water in proportions required to produce plaster mix of consistency required for application.

2.7 MISCELLANEOUS MATERIALS

- A. Water for Mixing and Finishing Plaster: Potable and free of substances capable of affecting plaster set or of damaging plaster, lath, or accessories.
- B. Bonding Compound: ASTM C 631.
- C. Steel Drill Screws: For metal-to-metal fastening, ASTM C 1002 or ASTM C 954, as required by thickness of metal being fastened; with pan head that is suitable for application; in lengths required to achieve penetration through joined materials of no fewer than three exposed threads.
- D. Fasteners for Attaching Metal Lath to Substrates: Complying with ASTM C 841.

- E. Patching Compound: Premixed, containing gypsum and aggregate.
- F. Tie Wire: Galvanized annealed steel, minimum 18 gauge.
- G. Thermal Insulation: As specified in Division 07 Section "~~Thermal Building~~—Insulation."
- H. Acoustical Joint Sealant: As specified in Division 07 Section "Joint Sealants."
- I. Sound Attenuation Blankets: Insulation: As specified in Division 09 Section "Acoustic Insulation."

2.8 FABRICATION OF CAST PLASTER

- A. Fabricate molds from existing undamaged plaster.
- B. For continuous elements, fabricate molds with overage on length to permit filed fitting.
- C. Cast replacement units with sharp lines and edges, with profiles to match existing.
- D. After removal of units from molds, remove excess material and mold lines; tool exposed edges to smooth surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions:
 - 1. Examine substrates and conditions, with Installer present, for conditions affecting performance of work.
 - 2. Examine nonstructural and structural metal framing, substrates, and hollow-metal frames, for compliance with requirements and other conditions affecting performance of the Work.
 - 3. Verify conditions are ready to receive work of this Section.
 - 4. Prepare written report, endorsed by Installer, listing conditions detrimental to performance.
 - 5. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Protect adjacent work from soiling, spattering, moisture deterioration, and other harmful effects caused by plastering.

3.3 INSTALLATION, GENERAL

- A. Fire-Resistance-Rated Assemblies: Install components according to requirements for design designations from listing organization and publication indicated on Drawings.

- B. STC-Rated Assemblies: Install components according to requirements for design designations from listing organization and publication indicated on Drawings.
 - 1. Seal construction at perimeters, behind control and expansion joints, and at openings and penetrations with a continuous bead of acoustical sealant. Install acoustical sealant at both faces of partitions at perimeters and through penetrations.
 - 2. Comply with ASTM C 919 and manufacturer's written recommendations for locating edge trim and closing off sound-flanking paths around or through assemblies, including sealing partitions above acoustical ceilings.
- C. Sound Attenuation Blankets: Where required, install blankets before installing lath unless blankets are readily installed after lath has been installed on one side.
- D. Acoustical Sealant: Where required, seal joints between edges of plasterwork and abutting construction with acoustical sealant.

3.4 GYPSUM PLASTER REPAIR/RESTORATION

- A. Repair of Small Cracks and Minor Damage
 - 1. Remove existing damaged plaster back to a point at which sound material is reached.
 - 2. Remove loose and foreign matter which could impair adhesion.
 - 3. Fill voids with patching compound; apply with sufficient pressure to eliminate voids and ensure adhesion.
 - 4. Finish to match adjacent surfaces.
- B. Repair of Large Cracks
 - 1. Remove existing damaged plaster back to a point at which sound material is reached.
 - 2. Remove loose and foreign matter which could impair adhesion.
 - 3. Fill voids with patching compound; apply with sufficient pressure to eliminate voids and ensure adhesion.
 - 4. Embed tape in wet compound. Apply additional compound to cover tape.
 - 5. Finish to match adjacent surfaces.
- C. Repair of Delaminated Plaster Layers
 - 1. Remove existing damaged plaster layers down to a point at which sound material is reached.
 - 2. Remove loose and foreign matter which could impair adhesion.
 - 3. Apply bonding compound in accordance with manufacturer's instructions.
 - 4. Fill voids with patching compound; apply with sufficient pressure to eliminate voids and ensure adhesion.
 - 5. Finish to match adjacent surfaces.
- D. Repair of Damaged Plaster Over Wood Lath
 - 1. Remove existing damaged plaster down to lath.
 - 2. Reattach loose lath with nails or wire ties.
 - 3. Install metal lath over existing wood lath. Cut lath approximately 1/2 inch smaller on

- all sides than area to be patched. Attach to wood lath with nails or wire ties.
4. Apply scratch, brown, and finish coats to thickness to match existing plaster.
 5. Finish to match adjacent surfaces.
- E. Repair of Damaged Plaster Over Metal Lath
1. Remove existing damaged plaster down to lath.
 2. Reattach loose lath with nails or wire ties.
 3. Apply scratch, brown, and finish coats to thickness to match existing plaster.
 4. Finish to match adjacent surfaces.
- F. Repair of Damaged Plaster Over Gypsum Lath
1. Remove existing damaged plaster and gypsum lath.
 2. Apply gypsum lath with ends and edges occurring over supports.
 - a. Cut panels with maximum 1/8 inch gaps at perimeter and around openings and penetrations.
 - b. Mechanically fasten panels to framing. Place fasteners minimum 3/8 inch from edges of panels. Drive heads slightly below surface.
 3. Apply scratch, brown, and finish coats to thickness to match existing plaster.
 4. Finish to match adjacent surfaces.
- G. Repair of Damaged Plaster Over Masonry
1. Remove existing damaged plaster down to masonry.
 2. Rout out mortar joint to 5/8 inch depth.
 3. Apply bonding compound in accordance with manufacturer's instructions.
 4. Apply scratch, brown, and finish coats to thickness to match existing plaster.
 5. Finish to match adjacent surfaces.

3.5 ORNAMENTAL PLASTER REPAIR/RESTORATION

- A. In-Place Restoration - Minor Damage
1. Remove existing damaged plaster back to a point at which sound material is reached.
 2. Reattach loose cast elements with countersunk screws. Fill screw holes with patching compound; finish flush.
 3. Fill voids with patching compound; tool to match existing profiles. Finish smooth and flush with adjacent surfaces.
- B. In-Place Restoration - Major Damage and Missing Elements
1. Remove existing damaged plaster back to a point at which sound material is reached.
 2. for continuous straight-line elements, attach temporarily wood strips to existing surfaces to act as guide for template. for circular elements, establish central reference point.
 3. Apply plaster using sufficient pressure to prevent voids and ensure adhesion to substrate.
 4. Strike off plaster to profile of existing using template; add additional plaster and strike off until smooth, full profiles are achieved.
 5. Prior to adhering cast plaster to existing surfaces, clean surfaces of loose and foreign matter which could impair adhesion.

C. Replacement of Cast Elements

1. Remove existing damaged plaster back to a point at which sound material is reached, in straight lines.
2. Attach new cast plaster to substrate with countersunk screws. Fill screw holes with patching compound; finish flush.
3. Fill joints between units with patching compound; finish flush with adjacent surfaces.

3.6 CLEANING

- A. Clean as recommended by manufacturer. Do not use materials or methods which may damage finish or surrounding construction.
- B. Waste Management: Legally dispose of waste off Owner's property.
1. Comply with Division 01 Section "Construction Waste Management."

END OF SECTION 09 01 20.91

SECTION 06 01 40.91 - ARCHITECTURAL WOODWORK RESTORATION

GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Restoration and replacement of existing interior finish carpentry and architectural woodwork components.

1.3 REFERENCES

- A. Definitions:
 - 1. Restoration: Includes removal, stripping, cleaning, repairing, preserving, refinishing, and reinstalling procedures and techniques as required to make necessary repairs and to leave woodwork members with tight joints and smooth, uniform surfaces with members flat to walls and other mounting surfaces.
 - 2. Consolidation: Method to be used where wood fibers have separated but are otherwise sound.
 - 3. Epoxy Patching: Method to be used to fill large cracks, voids, gaps, and missing portions of wood members.
 - 4. Minor Deterioration: Deterioration of the whole or part of an element to the point where it feels soft but is not punctured under light pressure from a screwdriver, and voids do not exist.
 - 5. Moderate Deterioration: Deterioration of the whole or part of an element to include voids and where the element is punctured under moderate pressure from a screwdriver, but where the structural integrity of the element or the assembly in which the element is located is not jeopardized.
 - 6. Severe Deterioration: Deteriorated of the whole or part of an element to include voids and where the structural integrity of the element or the assembly in which the element is located is jeopardized.
- B. Reference Standards:
 - 1. Perform Work according to the following standards.
 - 2. National Park Service (NPS):
 - a. Preservation Brief No. 9: The Repair of Historic Wooden Windows.
 - b. Preservation Brief No. 10: Exterior Paint Problems on Historic Woodwork.

- c. Preservation Brief No. 16: The Use of Substitute Materials on Historic Building Exteriors.
- 3. Preservation Tech Notes; U.S. Department of the Interior, National Park Service, Cultural Resources, Washington, DC.
 - a. Windows No. 4 - Replacement Wooden Frames and Sash.
 - b. Windows No. 6 - Replacement Wooden Sash and Frames with Insulating Glass and Integral Mullions.
 - c. Windows No. 14 - Reinforcing Deteriorated Wooden Windows.
 - d. Windows No. 16 - Repairing and Upgrading Multi-Light Wooden Mill Windows.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meetings: Conduct meeting at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."
 - 1. Convene minimum one week prior to commencing work of this Section.
 - 2. Attendance Required: Architect, Owner, Contractor, manufacturer's representative, installer, and other parties directly affecting or affected by work of this Section.
 - 3. Review methods and procedures related to work of this Section including, but not limited to, the following:
 - a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Inspect and discuss condition of substrate and other preparatory work performed by other trades.
 - c. Review structural load limitations.
 - d. Review required inspecting, testing, and certifying procedures.
 - e. Review weather and forecasted weather conditions and procedures for coping with unfavorable conditions.
 - f. Review preparation and other requirements for performing work of this Section.
 - g. Discuss and agree upon quality control procedures.
 - h. Review coordination required with other Sections.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product and process specified and incorporated into items of architectural woodwork during fabrication, finishing, and installation.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Statements:
 - 1. Qualification Data: Verifying qualifications and years of experience for restoration specialist. Include list of completed projects having similar scope of Work identified by name, location, date, reference names, and phone numbers.

1.7 QUALITY ASSURANCE

- A. Qualifications:

1. Restoration Specialist Qualifications: Company specializing in restoring finish carpentry and architectural woodwork comparable in material, design, and extent to that indicated for this Project, and whose work has a record of successful in- service performance with the following qualifications:
 - a. Company Experience: Minimum five years under current organizational structure.
 - b. Project Experience: Minimum five years experience on at least five projects of similar nature in past five years.
 - c. Staff: Maintain sufficient experienced, trained staff to perform work of this Section according to specified requirements
- B. Mockups: Build mockups to demonstrate aesthetic effects and set quality standards for materials and execution.
- C. Field Samples: For each type of woodwork restoration process required to verify product selections and as a benchmark to demonstrate aesthetic effects and set quality standards for materials and execution.
 1. Location and Extent: As directed.
 2. Perform sample restoration, according to requirements for the completed Work, after permanent lighting and other environmental services have been activated.
 - a. Wherever possible perform sample restoration on representative items not scheduled for reuse. Where all representative woodwork is scheduled to remain, perform restoration on items and in locations as directed by the Architect.
 - b. Show item removal, stripping, cleaning, repair, preservation, joinery, refinishing, and re-installation techniques.
 - c. Acceptable method of procedure will become the standard for Work of this Section.
 3. Approval of field samples does not constitute approval of deviations from the Contract Documents contained in field samples, unless such deviations are specifically approved by Architect in writing.
 4. Approved field samples may become part of the completed Work if undisturbed at time of Substantial Completion.
- D. Coordinate scheduling and sequence of work of this Section to allow sufficient time for restoration and reinstallation so as not to delay progress of the Work.

1.8 FIELD CONDITIONS

- A. Ambient Conditions:
 1. Comply with manufacturer's written requirements for maintenance of substrate and ambient temperatures, humidity, ventilation, lighting, and other conditions required to properly execute and protect the Work.
 2. Proceed with installation only when existing and forecasted weather conditions permit work to be performed according to manufacturers' written instructions and warranty requirements.

PART 2 - PRODUCTS

2.1 DESCRIPTION

- A. Restoration Requirements: Restore historic wood elements where indicated on Drawings and designated to remain to as near their original condition as possible.
- B. Take precautions to prevent further damage to wood elements during restoration procedures. Replacement of historic wood elements will be considered only when original elements are deteriorated beyond reasonable repair means. Replacement of wood elements is subject to the Architect's approval.

2.2 MATERIALS

- A. Lumber: Use salvaged existing wood for patching holes and replacing deteriorated components. Do not reuse rotten, split, termite damaged, or otherwise damaged pieces.
 - 1. Maximum moisture content: 12 percent on 90 percent of pieces; 15 percent on remaining pieces.

2.3 CLEANING MATERIALS

- A. Paint Remover: Restore – Super Bio Strip or Citrus Paint Remover as manufactured by American Building Restoration Chemical, Inc., 9720 South 60th St., Franklin, WI 53132 (800) 346-7532.
- B. Substitution Limitations: Comply with provisions of Division 01 Section "Substitution Procedures."

2.4 RESTORATION MATERIALS

- A. Acceptable Manufacturer:
 - 1. Abatron Inc., 5501 95th Ave., Kenosha, WI 53144 (800) 445-1754.
- B. Wood Consolidant: Two component resin/hardener designed to penetrate and impregnate porous wood fibers and harden to a workable, water-resistant mass; "LiquidWood".
- C. Epoxy Patching Material: Two component epoxy based putty-like wood filler designed to fill gaps or replace missing portions of wood elements and harden to a workable, non-shrinking mass; "WoodEpox".
- D. Moldmaking Compound: Two component polyurethane based flexible compound designed for direct application over existing wood ornamentation to create "molds" of objects to be reproduced; "Master Mold".

- E. Fasteners: Type and size as required by conditions of use; plain steel or aluminum for interior use; hot dip galvanized steel for exterior use.

2.5 ACCESSORIES

- A. Protective Masking: Sure Klean Acid Stop Strippable Masking as manufactured by Pro-So-Co Inc., PO Box 171677, Kansas City, KS 66117 (913) 281-2700.
- B. Protective Sheeting: 6 mil polyethylene.

2.6 FABRICATION

- A. Quality: AWI Premium Quality Grade.
- B. Fabricate new wood components with profiles and dimensions to exactly match existing using salvaged materials as a template.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions:
 - 1. Examine substrates and conditions, with restoration specialist present.
 - 2. Verify conditions and surfaces are ready to receive work of this Section.
 - 3. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prior to installation, condition wood to average humidity which will prevail after installation.
- B. Back-prime exterior wood and wood in contact with cementitious materials prior to installation.
- C. Verify compatibility of cleaners and protective products with materials and surfaces with which they will come in contact.
- D. Protect elements surrounding the work of this Section from damage or disfiguration.
- E. Carefully remove and store fixtures, fittings, hardware and accessories subject to damage by this work.
- F. Close off, seal, mask, or otherwise protect glass, metal, and other painted materials, and surfaces not receiving work of this Section to protect from damage.
- G. Provide positive containment means to divert and contain chemical run off.

3.3 PAINT REMOVAL

- A. Clean surfaces of loose, peeling paint and remove dirt particles with wood scrapers or stiff bristle brush.
- B. Apply appropriate cleaning agent mixed into solution in strict accordance with manufacturer's printed instructions based on results of pretested sample area.
- C. Provide a second application if required to prolong dwell time for thorough cleaning.
- D. Allow sufficient time for solution to remain on surface and agitate with soft, natural fiber brush.
- E. Rinse from the bottom up with potable water applied at 400 to 600 psi and at a rate of 4 to 8 gal/min or as recommended by manufacturer.

3.4 REPAIR AND REPLACEMENT OF HARDWARE

- A. Replace damaged and missing hardware.
- B. Replace broken and frayed sash cords.
- C. Reattach loose sash weights. Replace missing sash weights with new to match.
- D. Replace missing fasteners with new to match existing. Tighten existing fasteners.
- E. Lubricate operable parts.
- F. Adjust for smooth operation.

3.5 REPAIR AND REPLACEMENT OF WOOD

- A. Cut away rotted or otherwise seriously deteriorated material to sound wood. Remove deteriorated areas with care in a manner to prevent damage to adjacent materials.
- B. Remove loose coatings and loose wood fibers.
- C. Minor Deterioration: Consolidate soft wood as specified below.
- D. Moderate Deterioration:
 - 1. Epoxy patch voids as specified below.
 - 2. Consolidate soft wood as specified below.
- E. Severe Deterioration:
 - 1. Replace deteriorated wood members with new wood as specified in Division 06 Section "Interior Finish Carpentry."
 - 2. Match new wood to profile and grain of existing wood.

3. Fit replacement wood to hairline joint, glue and nail. Stapling not permitted.

F. Missing Elements:

1. Replace missing wood door and frame members and portions of wood paneling with new wood as specified in Division 06 Section "Interior Finish Carpentry."
2. Match new wood to profile and grain of existing wood.
3. Fit replacement wood to hairline joint, glue and nail. Stapling not permitted.

3.6 CONSOLIDATION OF EXISTING WOOD

- A. Apply consolidant in accordance with manufacturer's instructions by brushing, rolling, or pouring onto surface to refusal.
- B. Completely saturate damaged wood with consolidant; allow to cure 8 hours minimum.
- C. Apply to end grain where exposed. Where end grain is not exposed, drill 1/8 inch holes staggered and at angles to side grain to expose as much end grain as possible.
- D. Prevent leakage with wax or clay plugs. Clean leakage before it cures.
- E. Apply second coat if first coat does not completely saturate and harden wood.
- F. After curing, sand exposed surfaces smooth.

3.7 EPOXY REPAIR OF EXISTING WOOD

- A. Mix and apply epoxy in accordance with manufacturer's instructions.
- B. Apply epoxy putty to fill voids after consolidant has cured.
- C. Embed wood in center of large patches to reduce amount of filler.
- D. After filler has cured, sand, chisel or plane off and sand to a smooth surface, flush with adjacent surfaces.

3.8 REPLACEMENT OF EXISTING WOOD

- A. Remove existing damaged and deteriorated wood in manner to minimize damage to adjacent surfaces.
- B. Replace wood members where repair area weakens load carrying capacity of member and where repair area or volume exceeds limits recommended by repair material manufacturer.
- C. Fit new components to original profiles and lines.
- D. Feather new materials into existing.

- E. Secure at maximum 12 inches on center. Use type of nailing, concealed or exposed, to match existing.
- F. Miter corners and end joints to match existing.
- G. Scribe to adjacent construction with maximum 1/16 inch gaps.
- H. Sand cut ends and edges smooth.

3.9 REPLACEMENT OF GLASS

- A. Replace and reinstall glass under provisions of Division 08 Section "Glazing."
 - 1. Replace damaged and missing glass to match existing.
 - 2. Replace deteriorated glazing putty and sealants.
 - a. Locate and secure glass using glazing clips.
 - b. Fill voids between glass and stops with glazing compound; tool to straight line. Slope to exterior for watershed.

3.10 REFINISHING WOOD

- A. Refinish wood as specified in Division 09 Section "Painting."

3.11 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services:
 - 1. Require product manufacturers to provide field surveillance of the use of their products.
 - 2. Require manufacturer's representative to observe initial testing of products and make recommendations on proper product use for each application area and type of material to be restored.
 - 3. Monitor and report restoration procedures, after-treatments, weather and temperature conditions, and unacceptable conditions.
- B. Replace or restore other work damaged by work of this Section to satisfaction of the Architect.

3.12 CLEANING

- A. As work proceeds and at completion, remove excess droppings, smears, stains, or other unsightly excess resulting from the work of this Section.
- B. Remove and dispose of chemical contaminants in accordance with regulatory requirements.

END OF SECTION 06 01 40.91

SECTION 096400 - WOOD FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Field-finished wood flooring.

1.3 ACTION SUBMITTALS

- A. Samples for Verification: For each type of wood flooring and accessory, with stain color and finish required, approximately 12 inches (300 mm) long and of same thickness and material indicated for the Work and showing the full range of normal color and texture variations expected.
- B. Provide shop drawing for approval of routing of cabling through joists for the third floor.

1.4 QUALITY ASSURANCE

- A. Build mockup of one area of restoration
 - 1. To set quality standards for sanding and application of field finishes, prepare finish mockup of floor area as shown on Drawings.
 - 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 3. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver wood flooring materials in unopened cartons or bundles.
- B. Protect wood flooring from exposure to moisture. Do not deliver wood flooring until after concrete, masonry, plaster, ceramic tile, and similar wet work is complete and dry.
- C. Store wood flooring materials in a dry, warm, ventilated, weathertight location.

1.6 PROJECT CONDITIONS

- A. Conditioning period begins not less than seven days before wood flooring installation, is continuous through installation, and continues not less than seven days after wood flooring installation.
 - 1. Environmental Conditioning: Maintain an ambient temperature between 65 and 75 deg F (18 and 24 deg C) and relative humidity planned for building occupants in spaces to receive wood flooring during the conditioning period.
 - 2. Wood Flooring Conditioning: Move wood flooring into spaces where it will be installed, no later than the beginning of the conditioning period.
 - a. Do not install flooring until it adjusts to relative humidity of, and is at same temperature as, space where it is to be installed.
 - b. Open sealed packages to allow wood flooring to acclimatize immediately on moving flooring into spaces in which it will be installed.
- B. After conditioning period, maintain relative humidity and ambient temperature planned for building occupants.
- C. Install factory-finished wood flooring after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 FIELD-FINISHED WOOD FLOORING

- A. Solid-Wood Flooring: Kiln dried to 6 to 9 percent maximum moisture content, tongue and groove and end matched, and with backs channeled.
 - 1. Reuse existing flooring.
 - 2. Replace with wood matching the existing flooring species and finish.
- B. Wood Filler: Compatible with finish system components and recommended by filler and finish manufacturers for use indicated. If required to match approved Samples, provide pigmented filler.

2.2 ACCESSORY MATERIALS

- A. Wood Flooring Adhesive: Mastic recommended by flooring and adhesive manufacturers for application indicated.
 - 1. Adhesive shall have a VOC content of not more than 100 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
 - 2. Adhesive shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

- B. Fasteners: As recommended by manufacturer, but not less than that recommended in NWFA's "Installation Guidelines: Wood Flooring."

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas and conditions, with Installer present, for compliance with requirements for maximum moisture content, installation tolerances, and other conditions affecting performance of wood flooring.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove coatings, including curing compounds, and other substances on substrates that are incompatible with installation adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
- B. Broom or vacuum clean substrates to be covered immediately before product installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, or dust. Proceed with installation only after unsatisfactory conditions have been corrected.

3.3 INSTALLATION

- A. Comply with flooring manufacturer's written installation instructions, but not less than applicable recommendations in NWFA's "Installation Guidelines: Wood Flooring."
- B. Subfloor replacement: Provide multiple layers of OSB board to match existing floor elevation.
- C. Holes in existing joists should be located at the midpoint of the span and centered in the joist depth. Holes should be no larger than 1" diameter.
- D. Solid-Wood Flooring: Blind nail or staple flooring to substrate.
 - 1. For flooring of face width more than 3 inches (75 mm):
 - a. Install countersunk screws at each end of each piece in addition to blind nailing. Cover screw heads with wood plugs glued flush with flooring.
 - b. Install no fewer than two countersunk nails at each end of each piece, spaced not more than 16 inches (406 mm) along length of each piece, in addition to blind nailing. Fill holes with matching wood filler.

3.4 FIELD FINISHING

- A. Machine-sand flooring to remove offsets, ridges, cups, and sanding-machine marks that would be noticeable after finishing. Vacuum and tack with a clean cloth immediately before applying finish.
 - 1. Comply with applicable recommendations in NWFA's "Installation Guidelines: Wood Flooring."
- B. Fill and repair wood flooring seams and defects.

3.5 PROTECTION

- A. Protect installed wood flooring during remainder of construction period with covering of heavy kraft paper or other suitable material. Do not use plastic sheet or film that might cause condensation.
 - 1. Do not move heavy and sharp objects directly over kraft-paper-covered wood flooring. Protect flooring with plywood or hardboard panels to prevent damage from storing or moving objects over flooring.

END OF SECTION 096400

SECTION 099123 - INTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes surface preparation and the application of paint systems on the following interior substrates:
 - 1. Plaster.

1.3 DEFINITIONS

- A. MPI VOC "E" Ranges (grams/L)
 - 1. E3: Less than 51 g/l
 - 2. E2: 51 to 100 g/l
 - 3. E1: 101 to 200 g/l
 - 4. E0: Outside range (over 200 g/l)
 - 5. N/A: Unavailable
- B. Gloss Level 1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.
- C. Gloss Level 2: Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
- D. Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.
- E. Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D 523.
- F. Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
- G. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- H. Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

- I. Exposed Surfaces: Surfaces of products, assemblies, and components visible from any angle after final installation. Includes internal surfaces visible when operable doors, panels or drawers are open, and surfaces visible behind registers, grilles, or louvers.
- J. Concealed Surfaces: Surfaces permanently hidden from view in finished construction and which are only visible after removal or disassembly of part or all of product or assembly.
- K. Inaccessible Spaces: Spaces not intended for human use.
 - 1. Spaces listed below are defined as "Concealed" or "Inaccessible":
 - a. Space between suspended ceilings and floor or roof construction above.
 - b. Inside furred spaces.
 - c. Inside of partitions.
 - d. Mechanical and electrical items enclosed within casework or equipment.
 - e. Foundation spaces.
 - f. Crawl spaces.
 - g. Trenches and manholes.
 - h. Enclosed elevator shafts.
 - i. Mechanical shafts or chases.
- L. System DFT: Dry film thickness of entire coating system unless otherwise noted.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
- B. VOC Data:
 - 1. Product Data for paints and coatings, including printed statement of VOC content.
 - 2. Laboratory Test Reports for paints and coatings, documentation indicating that they meet the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- C. Samples for Color and Gloss Verification: For each finish and for each color required, prepare two samples of each opaque finish coating specified in each color and gloss scheduled for appearance verification. Resubmit until required gloss and color are achieved.
 - 1. Prepare on manufacturer's standard draw-down cards. Apply sufficient coating thickness to provide proper hiding and appearance.
 - 2. Label each sample to indicate material, color, and gloss.
- D. Product List: For each product indicated. Include printout of current "MPI Approved Products List" for each product category specified in Part 2, with the proposed product highlighted.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials to owner, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Deliver to owner during project closeout.
 - 1. Paint: 5 percent, but not less than 1 gal. of each material and color applied.

1.6 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Provide one surface to represent surfaces and conditions for application of each paint system.
 - a. Vertical and Horizontal Surfaces: Provide samples of at least 10 sq. ft.
 - 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.
 - b. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.8 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.
- C. Do not apply exterior coatings in snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Sherwin-Williams Company (The).
 - 2. Benjamin Moore & Co.
 - 3. PPG Architectural Finishes, Inc.
 - 4. Pratt & Lambert
 - 5. ICI
- B. Manufacturer Source Limitations:
 - 1. Obtain primary paint products through one source from a single manufacturer for entire Project, unless otherwise acceptable to Architect.
 - 2. Furnish secondary products and accessory materials only of type and from source recommended by manufacturer of primary paint products.

2.2 PAINT, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."
 - 1. If selected manufacture does not have an MPI evaluated product listed in the Paint Products Schedule, submit manufacturer's recommended alternate product for approval.
 - 2. All materials used shall be lead and mercury free and shall have low VOC content where possible.
 - 3. Use only materials having a minimum MPI "Environmentally Friendly" E2 or E3 rating based on VOC (EPA Method 24) content levels.
 - 4. At interior locations, use only MPI listed materials having an "L" rating designation.
- B. Material Compatibility:
 - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- C. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction and, for interior paints and coatings applied at Project site, the following VOC limits, exclusive of colorants added to a tint base, when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
 - 1. Flat Paints and Coatings: 50 g/L.

2. Nonflat Paints and Coatings: 150 g/L.
3. Dry-Fog Coatings: 400 g/L.
4. Primers, Sealers, and Undercoaters: 200 g/L.
5. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L.
6. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
7. Pretreatment Wash Primers: 420 g/L.
8. Floor Coatings: 100 g/L.
9. Shellacs, Clear: 730 g/L.
10. Shellacs, Pigmented: 550 g/L.

- D. Low-Emitting Materials: Interior paints and coatings shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- E. Colors: As indicated in finish schedule.

2.3 ACCESSORIES

- A. Spackling Compound, Putty, Plastic Wood Filler, Liquid De-Glosser, Latex Patching Plaster, Latex Base Filler, Linseed Oil, Shellac, Thinners, Solvents, and Other Materials Not Specifically Indicated But Required To Achieve Finishes Specified: Pure, of highest commercial quality, compatible with coatings and acceptable to coating manufacturer.

2.4 MIXING

- A. Unless otherwise specified herein or pre-approved, use ready-mixed, pre-tinted colors matching approved samples. Site tinting will not be permitted.
- B. Thoroughly mix and stir coatings before use to ensure homogeneous dispersion of ingredients. Prior to application, box (blend) multiple containers of same material and color by pouring from one container to another several times to ensure uniform consistency, color, and smoothness.
- C. Mix only in clean mixing pails of material recommended by manufacturer to avoid contamination.
- D. Remove film which may form on surface of material in containers and strain material before using. Stir frequently during use to maintain pigments in suspension. Do not stir film into material.
- E. Where thinner is required, addition shall not exceed paint manufacturer's recommendations. Do not use kerosene or organic solvents to thin water-based paints.
- F. If required, thin paint for spraying according in strict accordance with paint manufacturer's instructions. If directions are not on container, obtain instructions in writing from manufacturer and provide copy of instructions to Architect.

- G. Apply coatings of consistency recommended by manufacturer. Thin only within recommended limits using thinners approved by coating manufacturer

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. For examining substrates of existing construction see Division 09 Section "Maintenance Repainting."
- C. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - 1. Plaster and Gypsum Plaster: 12 percent.
- D. Plaster Substrates: Verify that plaster is fully cured.
- E. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- F. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" and "MPI Maintenance Repainting Manual" applicable to substrates indicated.
- B. For preparing substrates of existing construction see Division 09 Section "Maintenance Repainting."
- C. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- D. Protect adjacent interior surfaces and areas, including rating and instruction labels on doors, frames, equipment, piping, etc., from painting operations and damage using drop cloths, shields, masking, templates, or other suitable protective means. Repair damage caused by failure to provide such protection.
- E. Do not paint the following surfaces:

1. Clay and glass unit masonry.
2. Stone.
3. Aluminum and aluminum based alloys, copper and copper based alloys, lead and lead based alloys, nickel and nickel based alloys, stainless steel, plated architectural metals, and "weathering" metals.
4. Decorative plastic and metal laminates.
5. Synthetic countertops.
6. Elastomeric membranes and flashings, and roofing materials.
7. Sealants and caulking unless otherwise indicated.
8. Acoustic materials.
9. Rubber, vinyl, plastic, and other resilient seals and bumpers.
10. Surfaces concealed or inaccessible in finished construction unless specifically required.
11. Other surfaces specifically scheduled or indicated to remain unfinished or unpainted.

F. Do not paint the following materials and products:

1. Items with integral finish or factory-applied final finish, unless otherwise indicated.
2. Aareway grating.
3. Wire mesh partitions and gates, metal and wire storage shelving.
4. Moving parts of operating equipment such as valve and damper operators, linkages, sensing devices, motor and fan shafts.
5. UL, FM or other code-required labels, name plates, identification or performance rating labels.
6. Mechanical and electrical items concealed or inaccessible in finished construction unless specifically indicated to be painted.
7. Wire and decorative fencing.
8. Cast metal stair nosings, tree grates, trench drain grates, manhole covers, and curb inlets.

3.3 SURFACE PREPARATION

- A. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

3.4 APPLICATION

- A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."
1. Coat all surfaces specified, scheduled, illustrated, and otherwise exposed unless specifically noted otherwise.
 2. Use applicators and techniques suited for paint and substrate indicated.
 3. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.

4. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Apply paint and coatings within an appropriate time frame after cleaning when environmental conditions encourage flash-rusting, rusting, contamination or the manufacturer's paint specifications require earlier applications.
- C. Painting coats specified are intended to cover surfaces satisfactorily when applied at proper consistency and in accordance with manufacturer's recommendations. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
1. Unless otherwise directed, apply a minimum of four coats of paint where deep or bright colors are used to achieve satisfactory results
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brushmarks, roller tracking, runs, sags, ropiness, or other surface imperfections. Produce sharp lines and color breaks.
1. Number of coats specified are minimum number acceptable.
 2. Apply coating systems to total dry film thickness scheduled. Apply material at not less than manufacturer's recommended spreading rate. Do not exceed maximum single coat thickness recommended by coating manufacturer. Do not double back with spray equipment building up film thickness of two coats in one pass.
 3. Allow previously applied coat to dry before next coat is applied.
 4. Sand and dust lightly between coats as recommended by paint manufacturer.
 5. Ensure that edges, corners, crevices, welds, and exposed fasteners receive dry film thickness equivalent of flat surfaces.
 6. Finish edges of coatings adjoining other materials or colors sharp and clean, without overlapping.
- E. Interior Sheen Requirements: Except as noted herein or indicated on the Room Finish Schedule interior surfaces shall be painted in accordance with the following criteria over appropriate prime / sealer coat:
1. Walls (except as noted): G3 (eggshell).
 2. Ceilings (except as noted): G1 (flat).
 3. Public washrooms / toilets:
 - a. Wet and Splash-Zone Surfaces: G5 (semi-gloss).
 4. Kitchens: G5 (semi-gloss).
 5. Metal surfaces (doors, frames, railings, structure, etc.): G5 (semi-gloss).
 6. Wood surfaces (transparent): G4 (satin).
 7. Wood surfaces (opaque): G5 (semi-gloss).
 8. Inside of Light Valances: G6 (gloss) white.

F. Finish Matching:

1. Finish closets, niches, alcoves, and similar spaces the same as adjoining rooms, unless otherwise indicated.
2. Finish tops, bottoms, and edges of doors the same as door faces. When faces are different colors, finish edges of doors to match space from which they are visible when door is in partly open position.
3. Finish other surfaces not specifically scheduled to match color of adjoining surfaces.

G. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work: Paint surfaces visible in the finished construction as follows:

1. Paint items exposed in occupied spaces including, but not limited to, the following:
 - a. Fire Suppression, Plumbing, HVAC Work:
 - 1) Uninsulated metal and plastic piping.
 - 2) Piping with insulation covering or jacket material.
 - 3) Pipe hangers and supports.
 - 4) Ducts without external insulation covering.
 - 5) Ducts and equipment with insulation covering or other jacket material.
 - 6) Internal surfaces of unlined ducts visible through air inlets and outlets visible from occupied spaces. Paint flat black.
 - 7) Equipment and tanks with factory-primed finish.
 - 8) Equipment and tanks with factory-applied final finishes, unless otherwise indicated.
 - 9) Fin tube radiation covers, unless otherwise indicated.
 - b. Electrical, Communication, and Electronic Safety and Security Work:
 - 1) Conduits, raceways, and wiring device boxes. Do not paint wiring devices or covers unless specifically indicated to be field painted.
 - 2) Switchgear.
 - 3) Panelboards.
 - 4) Equipment with factory-primed finish.
 - 5) Equipment, excluding lighting fixtures, with factory-applied final finishes, unless otherwise indicated.
2. Paint items exposed in equipment rooms and non-public spaces including, but not limited to, the following:
 - a. Backprime and paint face and edges of plywood service panels for telephone and electrical equipment before installation in color to match adjacent wall surface.
 - b. Fire Suppression, Plumbing, HVAC Work:
 - 1) Uninsulated metal piping.
 - 2) Pipe hangers and supports.
 - 3) Equipment and tanks with factory-primed finish.

- c. Electrical, Communication, and Electronic Safety and Security Work:
 - 1) Equipment with factory-primed finish
- 3. Color Coding Mechanical and Electrical Work:
 - a. Refer to Mechanical Sections for identification banding of equipment, ductwork, piping, and conduit. Where indicated to be painted, color code equipment, piping, and conduit in accordance with the following.
 - 1) Colors: Comply with ANSI/ASME A131.1 Scheme for the Identification of Piping Systems.
 - a) Materials Inherently Hazardous: Yellow.
 - b) Liquid or Liquid Admixtures Materials of Inherently Low Hazard: Green.
 - c) Gas or Gaseous Admixtures Materials of Inherently Low Hazard: Blue.
 - d) Fire Quenching Materials: Red.
 - b. Coordinate with Mechanical Sections for determination of piping contents and color required.
- 4. Prior to finishing mechanical and electrical items, remove louvers, grilles, covers, and access panels and finish separately. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.

3.5 FIELD QUALITY CONTROL / STANDARD OF ACCEPTANCE

- A. Field Observations: Architect and Owner's Representative will perform the following:
 - 1. Review surfaces, preparation and paint applications.
 - 2. Request review of each applied coat by Architect before application of successive coats. Only reviewed coats will be considered in determining number of coats applied.
 - 3. Painted exterior and interior surfaces shall be considered to lack uniformity and soundness if any of the following defects are apparent to the inspector:
 - a. Brush marks, roller marks, streaks, laps, runs, sags, drips, heavy stippling, hiding or shadowing by inefficient application methods, skipped or missed areas, and foreign materials in paint coatings.
 - b. Evidence of poor coverage at fastener heads (bolts, rivets, screws, etc.), plate edges, lap joints, crevices, pockets, corners and re-entrant angles.
 - c. Damage due to touching before paint is sufficiently dry or any other contributory cause.
 - d. Damage due to application on moist surfaces or caused by inadequate protection from the weather.

- e. Damage and/or contamination of paint due to blown contaminants (dust, spray paint, etc.).
- 4. Painted surfaces shall be considered unacceptable if any of the following are evident under natural lighting source for exterior surfaces and final lighting source (including daylight) for interior surfaces:
 - a. Visible defects are evident on vertical surfaces when viewed at normal viewing angles from a distance of not less than 39 inches.
 - b. Visible defects are evident on horizontal surfaces when viewed at normal viewing angles from a distance of not less than 39 inches.
 - c. Visible defects are evident on ceiling, soffit and other overhead surfaces when viewed at normal viewing angles.
 - d. When the final coat on any surface exhibits a lack of uniformity of color, sheen, texture, and hiding across full surface area.
- B. Painted surfaces rejected by the inspector shall be repaired at the expense of the Contractor.
 - 1. Small affected areas may be touched up.
 - 2. Large affected areas and areas without sufficient dry film thickness of paint shall be repainted.
 - 3. Runs, sags, and damaged paint shall be removed by scraper or by sanding prior to re-application of paint.

3.6 CLEANING AND PROTECTION

- A. At end of each workday, remove combustible rubbish materials, empty cans, rags, and other discarded materials from Project site and safely dispose of in accordance with requirements of authorities having jurisdiction.
- B. Promptly remove spilled, splashed, or spattered coatings. After completing paint application, clean remaining spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Clean paint from finished surfaces using cleaning agents and methods which will not damage materials. Do not scratch or damage adjacent finished surfaces.
 - 1. If completed construction is damaged beyond normal cleaning or repair by painting operations, replace damaged items at no additional cost to Owner.
- C. Provide "Wet Paint" signs and other methods to protect newly coated surfaces. Remove when directed or when no longer needed.
- D. Clean equipment and dispose of wash water, cleaning solvents, and other cleaning and protective materials (e.g. rags, drop cloths, masking papers, etc.), paint removers / strippers, paints, and thinners in accordance with safety requirements of authorities having jurisdiction.
- E. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.

- F. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.7 INTERIOR PAINTING SCHEDULE

- A. Refer to separate Paint Systems Schedule for areas of application and color selection.

END OF SECTION 099123

SECTION 099123.13 – PAINT SYSTEMS SCHEDULE

| | | | | | MPI Paint Numbers | | | | |
|---|------------|--|-------------|---------|-------------------|--------|--------|--------|-------|
| Surface | MPI System | Coating System Description | Gloss Level | Vehicle | Coat 1 | Coat 2 | Coat 3 | Coat 4 | Notes |
| INTERIOR SURFACES | | | | | | | | | |
| Plaster and Gypsum Board (gypsum wallboard, drywall, “sheet rock type material”, etc., and textured finishes) | | | | | | | | | |
| | INT 9.2M | Institutional low odor / low VOC finish. | G1 - Flat | Latex | 50 | 143 | 143 | | |
| | INT 9.2M | Institutional low odor / low VOC finish. | G3 – Egg | Latex | 50 | 145 | 145 | | |
| | INT 9.2M | Institutional low odor / low VOC finish. | G5 - Semi | Latex | 50 | 147 | 147 | | |
| Bituminous Coated Surfaces (cast iron pipe, concrete, etc.) | | | | | | | | | |

- NOTES General If selected manufacture does not have an MPI evaluated product listed in the Paint Products Schedule, submit manufacturer's recommended alternate product for approval.
- General If gloss level is not scheduled on Room Finish Schedule or Finish Code Schedule or elsewhere on Drawings, verify required gloss level with Architect prior to or as part of submittal process.

END OF SECTION 099123.13

SECTION 099123.14 – PAINT PRODUCTS SCHEDULE

E Ranges: E3 <51 g/l;

E2 51-100 g/l;

E1 101-200 g/l;

E0 >201 g/l or n/a or outside range

RG: Meets the regulatory requirements of either the Ozone Transport Commission (OTC) states (or those who have adopted similar levels of VOC or EC (Environment Canada's VOC requirements)).

L: Meets LEED 2009 (Excluding LEED for schools.)

EPR: Environmental Performance Rating. EPR will bonus (plus or minus) points for VOC, relative performance, gloss level, and appropriate specified use.

GPS1: Meets GPS-1-12 equiv. to EPS per Test Method 24 in CFR Title 40, Part 60, Appendix A

GPS2: Meets GPS-2-12 of g/l max.

X-Green Meets GPS-2-12 of 50 g/l max. and meets CHPS (Collaborative for High Performance Schools) emission requirements.

| MPI# | Listing Mfr | Label | Product Name | Code | E Range | RG | L | EPR | GPS-1 | GPS-2 | X-Green |
|------|------------------|---------------------------|---|---------------------|---------|----|---|-----|-------|-------|---------|
| 3 | Benjamin Moore | Super Spec | Interior/Exterior High-Build Masonry Primer | N068 | 1 | X | X | | X | | |
| 3 | PPG | PPG | Perma-Crete Int/Ext Alkali Resistant Primer | 4-603 | 2 | X | X | | X | | |
| 3 | Sherwin-Williams | PrepRite ProBlock | Interior/Exterior Latex Primer/Sealer | B51W00620 | 3 | X | X | | X | X | X |
| 4 | Benjamin Moore | Super Spec | High Build Interior/Exterior Block Filler | 206/K206 | 3 | X | X | | X | X | X |
| 4 | PPG | Glidden Professional (US) | Concrete Coatings Block Filler Interior/Exterior Primer | 3010 | 3 | X | X | | X | X | X |
| 4 | Sherwin-Williams | PrepRite | Int/Ext Block Filler | B25W00025/B25WQ8025 | 3 | X | X | | X | X | X |
| 6 | Benjamin Moore | Fresh Start | Multi-Purpose Latex Primer | N023/F023 | 3 | X | X | | X | X | |
| 6 | PPG | Oulux Weatherguard (CA) | 100% Acrylic Exterior Primer | 1535 | 3 | X | | | X | X | |
| 6 | Sherwin-Williams | Multi-Purpose | Multi-Purpose Latex Primer/Sealer | B51W00450 | 3 | X | | | X | X | |
| 11 | Benjamin Moore | Ben | 100% Acrylic Exterior Semi-Gloss Finish | 543K543 | 3 | X | | | X | X | |
| 11 | PPG | PPG | Speedhide Exterior 100% Acrylic Latex Semi-Gloss | 6-900XI Line | 3 | X | | | X | X | |
| 11 | Sherwin-Williams | Solo | Interior/Exterior 100% Acrylic Semi-Gloss | A76W00051 | 3 | X | | | X | X | |
| 17 | Benjamin Moore | Fresh Start | Multi-Purpose Latex Primer | N023/F023 | 3 | X | X | | X | X | X |
| 17 | PPG | PPG | Seal Grip InVExt Acrylic Universal Primer/Sealer | 17-921 | 2 | X | X | | X | | |
| 17 | Sherwin-Williams | Multi-Purpose | Multi-Purpose Latex Primer/Sealer | B51W00450 | 3 | X | X | | X | X | X |
| 19 | PPG | PPG | Metalhide One-Pac Inorganic Zinc Rich Primer | 97-676 | 1 | | | | | | |
| 19 | Sherwin-Williams | Industrial & Marine | Zinc Clad II Ethyl Silicate | B69V3/B69D11 | 1 | | | | | | |
| 39 | Benjamin Moore | Fresh Start | Multi-Purpose Latex Primer | N023/F023 | 3 | X | X | 3 | X | X | |
| 39 | PPG | Seal Grip | Interior/Exterior Stain Blocking Primer | 17-921 | 2 | X | X | 2 | X | | |
| 39 | Sherwin-Williams | Multi-Purpose | Multi-Purpose Latex Primer/Sealer | B51W00450 | 3 | X | X | 3 | X | X | |
| 47 | Benjamin Moore | Super Spec | Alkyd Semi-Gloss Enamel | C271 | 2 | | | 2 | | | |
| 47 | PPG | Speedhide | Interior Wall& Trim Semi-Gloss Oil | 6-1110 XI | 2 | | | 2 | | | |
| 47 | Sherwin-Williams | ProMar200 | Alkyd Semi-Gloss | B34W251 | 1 | | | 1 | | | |
| 50 | Benjamin Moore | Eco Spec WB | Interior Latex Primer | N372/F372 | 3 | X | X | 3 | X | X | X |
| 50 | PPG | Speedhide | Zero Interior Zero VOC Latex Sealer | 6-4900 XI | 3 | X | X | 3 | X | X | X |

| MPI# | Listing Mfr | Label | Product Name | Code | E Range | RG | L | EPR | GPS-1 | GPS-2 | X-Green |
|------|------------------|---------------------------|--|---------------------|---------|----|---|-----|-------|-------|---------|
| 50 | Sherwin-Williams | Harmony | Interior Latex Primer | B11W00500/B11WQ8500 | 3 | X | X | 3 | X | X | X |
| 57 | Benjamin Moore | Lenmar | Polyurethane Finish Satin | 1Y-354 | 3 | X | X | | X | | |
| 57 | PPG | Dulux (CA) | Polyurethane Varnish Satin | 17001 | 3 | X | X | | X | | |
| 57 | Sherwin-Williams | Minwax | Helmsman Spar Urethane Satin | 3220 | 3 | X | | | | | |
| 72 | Benjamin Moore | Corotech | Aliphatic Acrylic Urethane Gloss | V500 | 2 | X | | | | | |
| 72 | PPG | Pitthane Ultra | Gloss Urethane Enamel | 95-8121819 | 2 | X | | | | | |
| 72 | Sherwin-Williams | Protective & Marine | Acrolon 218 HS | B65W611/B65V600 | 2 | | | | | | |
| 76 | Benjamin Moore | Corotech | Universal Metal Primer | V131 | 3 | X | | | | | |
| 76 | PPG | Devoe Coatings (US) | Vdevguard 4160 | 4160 | 2 | | | | | | |
| 76 | Sherwin-Williams | Protective & Marine | Kern Bond HS Universal Alkyd Primer | B50WZ0004 | 3 | X | | | | | |
| 80 | PPG | PPG | Polyclutch Vinyl Wash Primer | 97-687/688 | 2 | | | | | | |
| 80 | Sherwin-Williams | Product Finishes | Industrial Wash Primer | P60G21R7K44 | 2 | | | | | | |
| 90 | Benjamin Moore | Coronado | Penetrating Oil Slain | 69 Line | 1 | | | | | | |
| 90 | PPG | Olympic | Premium Interior Oil Based Wood Slain | 44500 | 3 | X | X | | | | |
| 90 | Sherwin-Williams | Minwax | Interior Q:I Stain-250 | 7107/7108 Series | 3 | X | X | | | | |
| 101 | PPG | Amerocoat | Amerlock | 400 | 2 | X | | | | | |
| 101 | Sherwin-Williams | Protective & Marine | Dura-Plate 235 Multi-Purpose Epoxy | B67W235/B67V235 | 1 | X | | | | | |
| 107 | Benjamin Moore | Super Spec HP | Acrylic Metal Primer | P04/KP04 | 3 | X | X | 3 | X | X | X |
| 107 | PPG | Pit-Tech® Plus | InVExt DTM Industrial Primer | 90-90819091912 | 2 | X | X | 2 | X | | |
| 107 | Sherwin-Williams | Pro Industrial | Pro-Cryt Universal Primer | B66W310 | 2 | X | X | 2 | X | | |
| 108 | Benjamin Moore | Corotech | Polyamide Epoxy Semi-Gloss | V400-91 | 1 | X | | | X | | |
| 108 | PPG | PMC | Amerlock 400 | AK-400 | 3 | | | | | | |
| 108 | Sherwin-Williams | Protective & Marine | Macropoxy 646 Fast Cure Epoxy | B58W00610 | 2 | X | | | | | |
| 134 | Benjamin Moore | Super Spec HP | Acrylic Metal Primer | P04/KP04 | 2 | X | X | 2 | | | |
| 134 | PPG | Dulux Weatherguard (CA) | Exterior Latex Primer | 1535 | 3 | X | X | 3 | X | X | |
| 134 | Sherwin-Williams | Pro Industrial | Pro-Cryt Universal Primer | B66W310 | 2 | X | X | 2 | X | | |
| 143 | Benjamin Moore | Eco Spec WB Silver | Interior Latex Flat Finish | 473/K473 | 3 | X | X | 4 | X | X | X |
| 143 | PPG | Pure Performance | Interior 100% Acrylic Flat | 9-100 | 3 | X | X | 4 | X | X | X |
| 143 | Sherwin-Williams | Harmony | Interior Acrylic Latex Flat | B05W01051 | 3 | X | X | 4 | X | X | X |
| 145 | Benjamin Moore | Eco SpecWB | Interior Eggshell Finish | N374/F374 | 3 | X | X | 4.5 | X | X | X |
| 145 | PPG | Glidden Professional (US) | Diamond 450 No VOC Interior Eggshell Paint | 7200 | 3 | X | X | 4.5 | X | X | X |
| 145 | Sherwin-Williams | ProMar 200 Zero VOC | Interior Latex Eggshell | B20W02651/B20WQ2651 | 3 | X | X | 4.5 | X | X | X |
| 147 | Benjamin Moore | Ultra Spec 500 | Waterborne Interior Gloss | N540/K540 | 3 | X | X | 5.5 | X | X | X |
| 147 | PPG | Glidden Professional (US) | Diamond 450 No VOC Interior Semi-Gloss Paint | 7400N | 3 | X | X | 5.5 | X | X | X |
| 147 | Sherwin-Williams | Emerald | Interior Acrylic Latex Semi-Gloss | K38W00351 | 3 | X | X | 5.5 | X | X | X |

END OF SECTION 099123.14