SPECIFICATIONS FOR

KITCHEN ALTERATIONS AND RELATED WORK

CUSTER II ELEMENTARY SCHOOL

5003 WEST ALBAIN RD, MONROE, MI. 48161 **FILE #24101**

AND

RAISINVILLE ELEMENTARY SCHOOL

2300 N RAISINVILLE ROAD, MONROE, MI. 48162 FILE #24102

AND

ARBORWOOD SOUTH ELEMENTARY SCHOOL

1008 RIVERVIEW AVE., MONROE, MI. 48162 FILE #24103

FOR

MONROE PUBLIC SCHOOLS

1275 NORTH MACOMB STREET, MONROE, MI. 48162

MARCH 18, 2024



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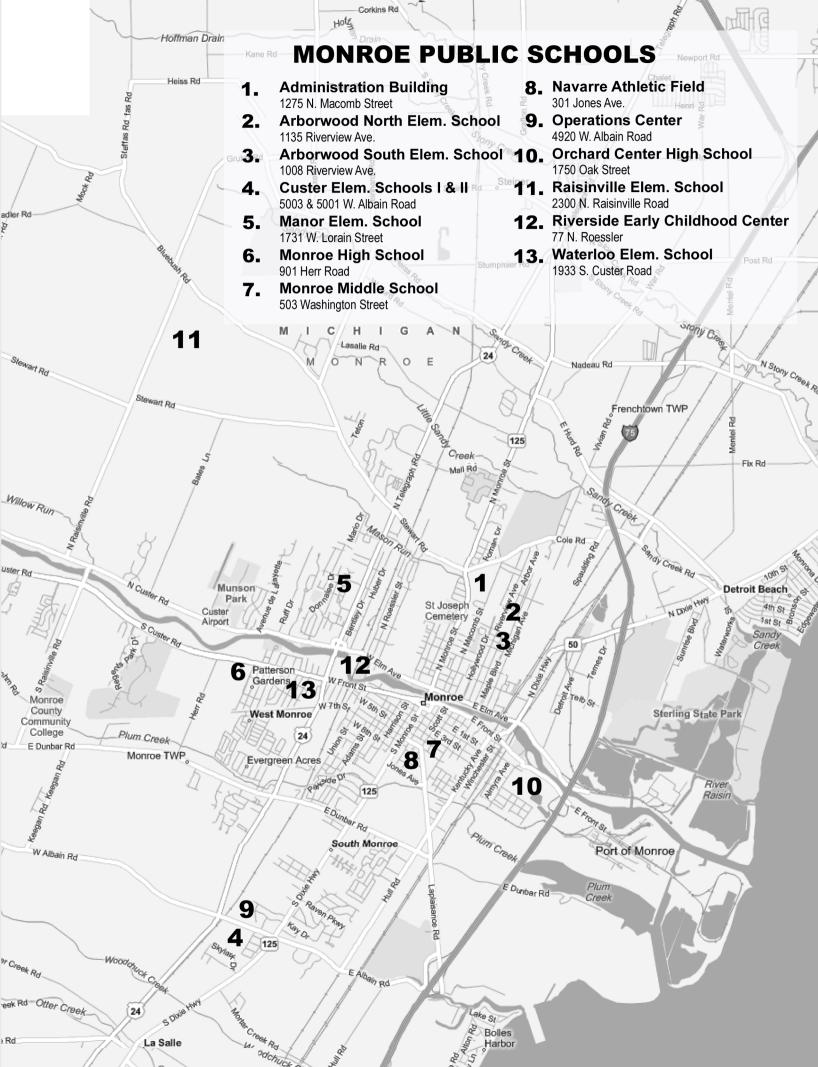
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ADVERTISEMENT FOR BIDS

OWNER: Monroe Public Schools

1275 North Macomb St Monroe, MI. 48162 Phone: (734) 265-3000

ARCHITECT:



PROPOSALS: Separate sealed proposals for Prime Contractors are invited for the following construction work: Kitchen Alterations and Related Work at (#24101) Custer II Elementary School, 5001 West Albain Rd., Monroe, MI. 48161, and at (#24102) Raisinville Elementary School, 2300 N. Raisinville Road, Monroe, MI. 48162, and at (#24103) Arborwood South Elementary School, 1008 Riverview Ave., Monroe, MI. 48162, for Monroe Public Schools, 1275 North Macomb Street, Monroe, MI. 48162 Proposals are to be separate per project and complete, including all trades (Sub-Contractors and Suppliers), as the successful Contractor will be considered a Prime Contractor entering into a direct contract with the Owner.

DUE DATE: Proposals will be received by the owner until **Tuesday, April 16, 2024 at 3:00 P.M.**, at the Monroe Public Schools Administration Building, 1275 North Macomb Street, Monroe, MI 48162. Bids will be publicly opened and read aloud at that time at the same location. The School Board will not consider or accept any bid submitted after the due date and time.

PLANS: Electronic pdf copies will be available for viewing and/or downloading at no cost from the Monroe Public Schools website at **https://bids.monroe.k12.mi.us**. Hard copies of plans and specifications may be purchased for \$150.00 for each set from the office of Kohler Architecture, Inc. located at 1118 West Front Street, Monroe, Mi., 48161.

The project will be advertised on the Buy4Michigan.com website and at Builders Exchange of Michigan, Grand Rapids, MI; CMD (Construction Market Data).Norcross, GA; Construction Association of Michigan, Bloomfield Hills, Mi.; Dodge Data & Analytics. Cincinnati, OH. Only bidders registered with the Architect will be sent any addendums and receive any other information regarding this project.

MANDATORY PRE-BID MEETING: A mandatory pre-bid meeting will be held at the job site (Manor Elementary School) Monday April 2, 2024. Custer II Elementary School – 9:00 A.M., Raisinville Elementary School – 10:00 A.M., Arborwood South Elementary School – 11:00 A.M.

These meetings are for the Prime Contractors, (NOT Sub-Contractors), to gain knowledge about the project and submit proof of qualifications for pre-approval. The Architect's Project Manager, will be at this meeting to clarify the bidding procedures, scope of work, identify any items of concern and answer questions from the Bidders for their preparation and submission of representative competitive bids. It is the Contractor's responsibility to assure the Architect has been furnished all necessary information as listed in Instructions to bidders at or prior to this meeting. The Architect will assemble an official list of approved bidders two days after the mandatory pre-bid meeting. The list will be limited to Contractors who attend the entire pre-bid meeting, have signed an official attendance list, have checked out official plans and specifications from the Architect, and meet the minimum Contractor qualifications as listed in the Instructions to Bidders. Bids submitted by Contractors who are not on the approved bidders list or do not meet these pre-bid requirements will not be opened and will be returned to the bidder.

PROPOSAL GUARANTEE: The proposal must be accompanied by a certified check or bid bond by an approved surety company in the amount of five percent (5%) of the proposal submitted payable to the Owner. Proposals shall remain firm for a period of sixty (60) days after official opening of bids.

CONTRACT SECURITY: The successful Contractor will be required to furnish performance, labor and material bonds, each in the full amount of the proposal if payments are issued prior to completion and/or the contract is \$50,000.00 or more.

FAMILIAL DISCLOSURE: All bidders must provide disclosure in compliance with MCL 380.1267 and attach this information to the bid. The bid shall be accompanied by a sworn and notarized statement disclosing any familial relationship that exists between the Owner or the employee of the bidder and any member of the board, intermediate school board, or board of directors or the superintendent of the school district, intermediate superintendent of the intermediate school district, or chief executive officer of the public school academy. The District shall not accept a bid that does not include this sworn and notarized disclosure statement.

IRAN ECONOMIC SANCTIONS ACT COMPLIANCE: All bidders must provide a sworn and notarized statement in compliance with Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 and attach this information to the bid. The District shall not accept a bid that does not include this sworn and notarized statement.

RIGHT RESERVED BY OWNER: The Owner reserves the right to waive any irregularities, reject any or all bids, or accept the bid that in the opinion of the Owner, will serve the best interests of the Owner.

PROPOSAL FORM (Submit in Duplicate)

To: Secretary of the School Board:

Having carefully examined the Instructions to Bidders, the Specifications and Drawings, all entitled, "Kitchen Serving Counter Alterations & Related Work at Custer II Elementary school, 5001 West Albain Rd., Monroe, MI 48161, File #24101; Kitchen Serving Counter Alterations & Related Work at Raisinville Elementary School, 2300 N. Raisinville Road, Monroe, MI., 48162, File #24102; and Cooler / Freezer Replacement & Related Work at Arborwood South Elementary School, 1008 Riverview Ave., Monroe, MI 48162, File #24103, as well as the premises and the conditions affecting the work, the undersigned agrees to furnish all labor and materials to perform the work, including All Trades, and agrees to accept in payment therefore, the sum of:

PROPOSAL A (Base Bid)	
	Dollars
(\$)	
ALTERNATE #1 (ADD) - Custer II Elementary School Install Floor Drain	
	Dollars
(\$)	
<u>ALTERNATE #2</u> (ADD) – Raisinville Elementary School add Power Option to Overhead Door	
	Dollars
(\$)	
The following form of bid guarantee, as indicated below, is herewith enclosed, representing 5% of the anthe Total Bid, including Alternates, payable to the Owner: Certified Check Bid Bond	nount of
It is agreed that this bid may not be withdrawn for a period of 60 days. The Owner reserves the right to wairregularities, reject any or all bids or accept the bid that in the opinion of the Owner will serve the best in the Owner.	
Guaranteed Maximum percentage of mark-up values on change orders including Overhead, profit, bond, inswage rates, and equipment rates for BOTH prime contractors and subcontractors will not mow.	

The undersigned agrees, if awarded the contract, to commence construction immediately and to complete work as noted in Division #1. (Notes: See Supplemental and Special conditions for Liquidated Damages and Instructions to Bidders for Architect's Inspections and Additional Services.)

Email

PROPOSAL FORM (Submit in Duplicate)

SUB-CONTRACTORS - The undersigned submits for your approval herewith as a condition of being awarded the contract, the separately attached list of Contractors to whom it is proposed to let portions of this work, agreeing in every way to be responsible for the work, materials, equipment and supplies furnished by each and all of them. A tentative list shall be submitted with bid and confirmed/verified no later than 24 hours after bid opening.

SUBSTITUTIONS - The following is a list of manufacturers or trade names of substitute materials and equipment, which the undersigned submit for consideration, guaranteeing the same to conform to exact requirements of the specifications. The additions, deductions or no-charge figures indicated are separate from and not part of the

14	Substitute	Add	Deduct	No Charge
Item	Mfr./Trade Name			
ioi Statement Regard	ding Familial Relationsh	ip, completely filled of	out and signed.	
IRAN ECONOMIC S, proposal, shall be an completely filled out a BIDDER'S COMPLIA understand, and will	ANCTIONS ACT COMP Affidavit of Compliance and signed. ANCE ASSURANCE- S Il comply with the requ	PLIANCE - As require of the Iran Econom Sign in the space	ed by the State of Michig nic Sanctions Act, Michig provided below to c I in this project manual	an, and included as part of this an Public Act No. 515 of 2012, onfirm that you have read, , including, but not limited to !) Qualification of Bidders.
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Fed. Tax ID _____

STATEMENT REGARDING FAMILIAL RELATIONSHIP

		AFFIDAV	/IT OF
STATE OF _)	SS:	(insert name of affiant)
COUNTY O	F)		
			makes this Affidavit under oath and states as follows:
	(insert name o	f affiant)	
1.	I am a/the:		President Vice-President Chief Executive Officer Member Partner Owner Other (please specify)
of	,		, a bidder on a construction project for
	(insert name o	f contract	or)
			that involves, at least in part, construction of a new school building or or renovation of an existing school building or other facilities.
2.	familial relati	onships ed contrac	edge and/or I have personally verified that the following are all of the existing between the owner(s) and the employee(s) of the external the school district's superintendent and/or board members:
3.		m fully aw	nd the aforementioned contractor with the representations contained vare that the school district will rely on my representations in evaluating n project.
4.	I declare the a	bove info	rmation to be true to the best of my knowledge, information and belief. accurately testify regarding the information contained in this affidavit if
			(signature of affiant)
Dated:			
Subscribed	and sworn before n	ne in	County,
(state)	, on the da	y of	, 20
			(signature)
			(printed)
			County of
My Commis	ssion expires on		
Acting in th	e County of		

AFFIDAVIT OF COMPLIANCE IRAN ECONOMIC SANCTIONS ACT Michigan Public Act No. 517 of 2012

		AFFII	DAVIT OF	
			(insert name	e of affiant)
STATE OF)	SS:		
COUNTY OF _)			
	ut nome of official	ma	kes this Affidavit under oath	and states as follows:
(inse	ert name of affiant)			
1.	I am a/the:		President Vice-President	
			Chief Executive Officer	
			Member Partner	
			Owner	
			Other (please specify)	
of	(insert name o	of contracto		, a bidder on a construction project for
			hat involves, at least in part n existing school building or	, construction of a new school building or an addition to or other facilities.
2.	an "Iran Linke of 2012 (the "	d Business Act"), and t for Bids, t	" within the meaning of the that in the event the Bidde the Bidder will not become a	dder (including its officers, directors and employees) is not Iran Economic Sanctions Act, Michigan Public Act No. 517 r is awarded a Contract as a result of the aforementioned an "Iran Linked Business" at any time during the course of
	found to have times the amo greater plus t Moreover, any submit a pro	submitted ount of the o the cost of person w posal as to	I false certification is respor Contract or proposed Contra If the Owner's investigation Tho submitted a false certifi	s that term is defined in Section 2(f) of the "Act" who is sible for a civil penalty of not more than \$250,000.00 or 2 act for which the false certification was made, whichever is a, and reasonable Attorney fees in addition to the fine. cation shall be ineligible to bid on an Invitation to Bid or a period of three (3) years from the date that it is certification.
3.		-		or with the representations contained herein, and I am fully ntations in evaluating bids for the construction project.
4.				of my knowledge, information and belief. I could completely ained in this affidavit if requested to do so.
				(signature of affiant)
				Dated:
Subscribed an	d sworn before me	in	County,	
	on the day o	f	, 20	
(insert state)	,, .		,	
			(signature)	
			(printed)	
			inty of	
My Commission	on expires on			
Acting in the (County of			

Project Schedule

This reflects an anticipated project schedule for this construction project. Contractors shall familiarize themselves with this schedule and note any conflicts on the proposal form. The project schedule will be reviewed, coordinated, and finalized at the contractor/owner pre-construction meeting.

<u>Description</u>	<u>Date</u>
Out for Bids	March 18, 2024
Mandatory Pre-bid Meeting	Custer II Elementary, April 1, 2024 at 9:00 am Raisinville Elementary, April 1, 2024 at 10:00 am Arborwood South Elementary, April 1, 2024 at 11:00 am
Official Bidders List	April 2, 2024
Bids Due	April 16, 2024 at 3:00 pm
Post Bid Interviews	April 16-18, 2024
Architect Recommendation	April 18, 2024
Owner Awards Project	April 23, 2024
Notice to Proceed Letters	April 24, 2024
Pre-Construction Meeting	T.B.D.
Physical Construction	June 10, 2024 – August 16, 2024
Substantial Completion	August 16, 2024
Final Completion	September 16, 2024



 $Files: \verb|\Documents| Specifications| 24101, 24102, 24103 | Project Schedule | Project S$

Project Schedule 001300 - 1

SECTION 002113 INSTRUCTIONS TO BIDDERS

INVITATION

1.01 PROPOSAL SUBMISSION

- A. Bids signed and sealed, executed, and dated will be received per the Advertisement for Bids.
- B. Submit required Supplements To Bid Forms within 24 hours after closing time for receiving bids.
- C. Amendments to the submitted offer will be permitted if received in writing prior to bid closing and if endorsed by the same party or parties who signed and sealed the offer.

1.02 INTENT

A. All work specified in this project manual shall be bid as one package. The prime contractor (assumed General Contractor) shall be responsible to assemble and collect all parts, materials, equipment, labor, etc. as required for a complete finished installation at completion. Included shall be architectural (patching, demolition, finishes, roofing, etc.) mechanical, electrical, plumbing, and all other related trades as required for a complete project.

1.03 CONTRACT TIME

A. The bidder, in submitting an offer, will perform the Work within the time stated in Section 001300 - Project Schedule.

BID DOCUMENTS AND CONTRACT DOCUMENTS

2.01 CONTRACT DOCUMENTS IDENTIFICATION

A. All work shall be performed under this contract as described in this project manual as prepared by Kohler Architecture, Inc. Included, but not limited to are; Title Sheet, Index, Advertisement for Bids, Bid Proposal Form, Instructions to Bidders, Certificate of Insurance, Specifications - All Divisions, Drawings, etc.

2.02 AVAILABILITY

- A. Electronic pdf copies will be available for viewing and/or downloading at no cost from the Monroe Public Schools website at https://bids.monroe.k12.mi.us. Hard copies of plans and specifications may be purchased for \$150.00 for each set from the office of Kohler Architecture, Inc. located at 1118 West Front Street, Monroe, MI., 48161. These are the official and only recogonized places that addenda and other information regarding this project will be posted.
- B. The project will be advertised on the Bid4Michigan.com website and at Builders Exchange of Michigan, Lansing, MI; Construct Connect (formerly CMD), Norcross, GA; Construction Association of Michigan, Bloomfield Hills, Mi.: Dodge Data & Analytics, Cincinnati, OH.
- C. Bid Documents are made available only for the purpose of obtaining offers for this project. Their use does not grant a license for other purposes.

2.03 EXAMINATION

- A. Bid Documents may be viewed at the office of Architect.
- B. Upon receipt of Bid Documents verify that documents are complete. Notify Architect should the documents be incomplete.
- C. Immediately notify Architect upon finding discrepancies or omissions in the Bid Documents.
- D. Each bidder shall examine all drawings, specifications and all other data or instructions pertaining to the work. No plea of ignorance of conditions that exist or of difficulties of conditions that may be encountered, or of any other relevant matter concerning that work to be performed in the execution of the work will be accepted as an excuse for any failure or omission on the part of the Contractor to fulfill every detail of all the requirements of the contract documents, governing the work. The bidder, if awarded the contract, will not be allowed extra compensation by reason of any matter or thing concerning which such bidder might have fully informed himself prior to bidding.

2.04 INQUIRIES/ADDENDA

- A. Addenda may be issued during the bidding period. All Addenda become part of Contract Documents. Include resultant costs in the Bid Amount.
- B. If any person contemplating submitting a bid is in doubt as to the true meaning of any part of the plans or specifications, or other proposed contract documents, or requesting a change, they shall submit to the Architect a written request for interpretation which shall be delivered to the Architect at least (7) days before the opening of bids. Any interpretation of the proposed documents will be made only by an addendum duly issued.
- C. Such addendum will be posted in the same manner as original bid documents. If after the pre-bid meeting and approved bidders are known, notice of such addendum may be emailed to each approved bidder. It shall be the bidder's responsibility to make inquiry as to addenda issued. Any addendum issued during the time of bidding shall be included in the bid, and in closing a contract will become a part thereof.
- D. Any verbal information obtained from or statements made by representatives of the Owner or Architect at the time of examination of the contract documents or site shall not be construed as in anyway amending the contract documents. Only such corrections or addenda as are issued in writing to all bidders shall become a part of the contract. Neither the Owner nor the Architect will be responsible for verbal instructions. Verbal answers are not binding on any party.

2.05 VOLUNTARY SUBSTITUTIONS

- A. For a bid proposal to be accepted by the Owner, and considered for contract award, it must contain costs to perform the work exactly as specified. The bidder is required to perform all work, all materials, etc., as specified. Voluntary substitutions may be listed in the bid proposal by the bidder but will only be considered if the Contractor first bids on the work as specified. The bidder must be considered the lowest bonafide, qualified, bidder in the base specified bid before the voluntary substitution is considered.
- B. If a bidder feels a product, assembly of products, or an equal solution is available to perform the same design intent, he shall contact the Architect for review and if approved, will be issued in an addendum as described elsewhere, as an "approved equal".

SITE ASSESSMENT

3.01 SITE EXAMINATION

- A. The bidder shall carefully examine the site of each project and surrounding territory, the means of approach to the site and the structure of the ground and make all necessary investigations required to inform himself thoroughly and fully as to facilities for delivery, storing, placing and handling of materials and equipment and to inform himself fully as to all difficulties that may be encountered in the complete execution of all work in accordance with the contract documents.
- B. For making appointment to visit the site and enter the building, bidders should contact:
 Mr. Tim Salenbien, Custodial/Maintenance Supervisor, Monroe Public Schools, 4920
 West Albain Road, Monroe, MI 48161 (Phone 734-265-3333)

3.02 MANDATORY PRE-BID MEETING

A. A mandatory pre-bid meeting will be held at the time and place noted in the Advertisement for Bids. This meeting is for the Prime Contractors, (NOT Sub-Contractors), to gain knowledge about the project and submit proof of qualifications. The Architect's Project Manager, will be at this meeting to collect proof of qualification documentation, clarify the bidding procedures, scope of work, identify any items of concern and answer questions from the Bidders for their preparation and submission of representative competitive bids. It is the Contractor's responsibility to assure the Architect has been furnished all necessary documentation as listed below at or prior to this meeting. The Architect will assemble a list of bidders within seven days after the mandatory pre-bid meeting. The list will be limited to Contractors who attend the entire pre-bid meeting, have signed an official attendance list, and meet the minimum Contractor qualifications as listed in the Instructions to Bidders, and the Advertisement for Bids. Bids submitted by Contractors who are not on the approved bidders list or do not meet these pre-bid requirements will not be opened and will be returned to the bidder.

B. See Contractor Requirements Section for list of Qualifications to be delivered to the Architect, **at or before**, the Mandatory Pre-Bid Meeting:

CONTRACTOR REQUIREMENTS

4.01 EVIDENCE OF QUALIFICATIONS

- A. The following is a list of items to be delivered to the Architect, at or before, the Mandatory Pre-Bid Meeting:
 - Contractor's Qualification Statement AIA A305 Current edition (copies available from the AIA, www.documentsondemand.AIA.org) setting forth previous experience, references, physical plant and equipment possessed, description of organizations, financial resources, conformance with special requirements, qualification statement and such other evidence as may testify to his ability to carry out the contract..
 - 2. List of Job References for minimum 5 similar (type/size) projects with current contact names and phone numbers providing company experience.
 - 3. Resumes of key personnel including Project Manager and Project Superintendent providing individual's name, address, current driver's license or legal photo I.D, trade classification, years of trade experience and years employed by contractor.
 - 4. Equipment list providing physical plant and equipment possessed.
 - 5. Other such evidence as may testify to the Contractor's ability to carry out the contract.

4.02 SPECIAL REQUIREMENTS

- A. All Contractors and Sub-Contractors shall comply with the following conditions:
 - 1. The main office of all Contractors, Sub-Contractors, and other bidders shall be located within approximately a fifty (50) mile radius from the job site.
 - The Contractor and their Sub-Contractors shall give preference to using local firms for labor and materials where practical without sacrificing the quality, time schedule and cost of the project. Local is defined as that available within the boundaries of Monroe County.
 - 3. The Owner expects the Contractor to utilize local Sub-Contractors and suppliers when all other factors are similar and when it would serve the Owner's best interest. Other factors that will be used in awarding a contract include cost, past projects and performance, time schedule, qualifications, credit/financial history, bonding capability, etc.
 - 4. Contractor's Qualifications:
 - a. Experience The Prime Contractor shall have been in business under its present name and ownership for the last five (5) years. The Prime Contractor shall have completed a minimum of five (5) projects similar to this project, in type and size, using the materials and manufacturers as herein specified.
 - b. Personnel The Prime Contractor shall have a minimum of (3) regular full-time employees (Estimators, Superintendents, Laborers, etc.) on his company payroll that are qualified with the appropriate skills to perform the work specified. This excludes Owners/Officers of the company.
 - c. Project Superintendent Shall be sufficiently experienced to coordinate and be responsible to direct all workers and Sub-Contractors in the installation of the work and for taking instructions from the Owner/Architect. The Project Superintendent shall be on the job site at all times that construction is in progress. He shall also be responsible to up-date an accurate "As-Built" drawing of all trades on a daily basis to be submitted to the Architect at job completion.
 - The same Superintendent shall remain on the job from beginning to end, unless written approval is given by the Architect, in advance. This is to avoid additional costs the Owner will incur should the Architect have to repeat directives, review changes, or any other additional services required to get the replacement Foreman educated with the project's details and scope.
 - d. Franchised Installer The Prime Contractor, or any Sub-Contractor shall be franchised and approved by the manufacturer of the components, or system, which is to be installed for the last five (5) years. Contractor shall submit a letter from the component manufacturer, stating this Contractor's previous performance rating of installation of the component on the last ten (10) completed projects.

- e. Equipment The Prime Contractor shall possess sufficient equipment, tools, safety items, etc., to properly install the work and to ensure the necessary security and safety of the job site, the workers and the occupants.
- 5. As all of the above items are essential conditions for awarding a contract, the three lowest bidders shall submit the following required items no later than twenty-four (24) hours following the bid opening:
 - a. Finalized Sub-Contractor list with each worker's name, address, social security number, trade classification, years of trade experience and years employed by Sub-Contractor. See other Divisions of these specifications that may set ratios of apprentices to journeymen.
 - b. Anticipated material supplier list.
 - c. Guaranteed Maximum percentage of mark-up values on change orders including Overhead, profit, bond, insurance, wage rates, and equipment rates for BOTH prime contractors and subcontractors.

If the Owner awards a contract, sub-contractors shall not be changed by the Contractor unless approved in writing by the Owner. Request for changes shall be submitted by the Contractor, stating the reason(s) for the change, along with all supporting documentation.

- 6. Any bidder not in agreement or conformance with these conditions shall request a waiver at the time of submitting the bid. Otherwise if a contract is awarded to a Contractor not requesting a waiver, the Contractor will be required to conform as specified.
- 7. The contractor shall not employ and shall not subcontract with a subcontractor of any degree that employs, an individual required to be registered under Article 2 of 1994 PA 295, as amended, who will be assigned to work within a student safety zone, as that term is defined in 1994 PA 295, as amended.
 - Neither the contractor nor subcontractor thereof of any degree shall assign to the Owner's Project any individual, and the Owner shall not allow any individual, to regularly and continuously work under contract in any of the Owner's schools if the reports on an individual's criminal history or criminal records check have not been received or if those checks would disclose or do disclose that individual has been convicted of a felony other than a "listed offense" as that term is defined in Section 2 of the Sex Offenders Registration Act, 1994 PA 295, as amended, or which disclose that individual has been convicted of a felony other than a "listed offense" unless the Superintendent and the Board of the Owner each specifically approve of the work assignment in writing. Additionally, the contractor agrees that it shall not assign any of its employees, agents or other individuals to perform, and shall not permit any of its subcontractors to assign personnel to perform, any services under this Agreement where such individuals would regularly and continuously work in the school district's facilities or program sites if such person has been convicted of any of the following offenses:
 - Any "listed offense" as defined under Section 2 of the Sex Offenders Registration Act, MCL 28.722: or
 - Any offence that would, in the judgment of the Board, create a potential risk to the safety and security of students served by the school district or employees of the school district; or
 - c. Any offense enumerated in Sections 1535a (1) or 1539b of the Revised School Code, MCL 380.1535a(1) or MCL 380.1539b; or
 - d. Any offense of a substantially similar enactment of the United States or another State

Any personnel of the contractor or of the subcontractors thereof of any degree that have been charged with any of the above-referenced crimes shall immediately report that circumstance to the Owner's superintendent and shall not be permitted to work in any of the schools of the Owner during the pendency of the prosecution associated with such charge(s). The Owner reserves the right to refuse contractor's assignment of any individual, agent or employee of the contractor or subcontracted personnel of any degree to render services under this Agreement where the criminal history of that individual (including any pending charges) indicate, in the school district's judgment, unfitness to perform services under this Agreement. Violation of the above by the contractor or a subcontractor thereof shall be a basis for immediate termination of this

Agreement. The contractor shall require language similar to the above in all of its agreements and/or contracts with its consultants, subcontractors, suppliers and materialmen of any degree.

- 8. Any and all personnel of the contractor, any subcontracted personnel, and/or any suppliers thereof of any degree, assigned to regularly and continuously work under contract in any of the Owner's schools shall be required to submit a signed Conviction Disclosure Form and a legal photo identification for a background check before being allowed on the construction site. (Copy of form included at end of this Division).
- 9. Contractor shall submit a signed and notarized copy of the Statement Regarding Familial Relationship with his Bid Proposal. (Copy of form included in bid specification packet.)
- 10. Contractor shall submit a signed and notarized copy of the Affidavit of Compliance Iran Economics Sanctions Act with his Bid Proposal. (Copy of form included in bid specification packet.)

BID SUBMISSION

5.01 DEPOSIT AND OPENING OF BIDS

A. Proposals shall be submitted and delivered in opaque envelopes addressed to **Bid** Location and clearly marked **Proposal**. There shall also appear name and address of the bidder.

5.02 PREPARATION OF PROPOSALS

- A. Proposals shall be prepared only on the form provided by the Architect, and all spaces left for the purpose shall be fully filled in. All designations and prices shall be fully and clearly set forth, with the amount of the bid stated in words and repeated in figures. In case of variations the worded amount shall prevail. Erasures or other changes in the bid shall bear the signature of the bidder. Proposals must be signed.
- B. The bids shall be on the basis of guaranteed sum. Bidders should not add any conditions or qualifying statements, the proposal shall not contain any added recapitulation of the work to be done nor will oral, electronic or telephonic modifications of the work be considered, as otherwise the proposal may be declared irregular.

5.03 BID PROPOSAL CLARIFICATIONS

- A. Bidders shall submit prices for each proposal, alternate, unit price, or other requested bid amount. Bidders may elect not to bid the Alternate prices but may jeopardize their chances of being awarded a contract. The Owner has the right to award contracts to the bidder on the basis of any combination of base bid and alternate plus ay unit prices or other bid amounts that best serves the Owner's best interest.
- B. The alternate numbering system does not reflect any priority. The Owner may select and award a contract on the basis of which alternates are in their best interest.
- C. In the case where several separate Base Bid Proposals are requested, the Owner may award contracts on the basis of these proposals or a combined bid, to one Contractor or several Contractors, whose bid(s) serves the Owner's best interest. If the Base Bids are an either/or selection, the Owner may choose the Proposal (Base Bid or Optional Bid) that serves their best interest.

BID ENCLOSURES/REQUIREMENTS

6.01 BID GUARANTEES

A. No proposal will be considered unless it is accompanied by the bid guarantees as stated in the official Advertisement for Bids. Guarantees may be in the form of a certified check or a standard form of bid bond by a corporate surety licensed to underwrite bids in the State of Michigan (facsimile copies are not acceptable). Guarantee shall be in the amount of five percent (5%) of the amount of the bid submitted, or in the case of separate and combined bids, five percent (5%) of the total of the separate bids. Amount shall include Base Bid plus all Alternates. Guarantees shall be drawn in favor of the Owner.

6.02 RETURN & FORFEITURE OF BID GUARANTEES

- A. The bid guarantees of all except the three lowest Bidders will be returned within fifteen days after the opening of bids. The guarantees of the three lowest bidders will be returned within three days after the executed contract and bonds have been finally approved by the Owner.
- B. In the event of the successful bidder refusing to enter into contract, or failing to execute the contract and bonds within ten (10) days after formal notification of award of contract, then a sum not to exceed five percent (5%) of the amount of the bid shall be forfeited to the Owner due to lack of performance and as liquidated damages.

OFFER ACCEPTANCE/REJECTION/WITHDRAW

7.01 RIGHT RESERVED BY OWNER

- A. The Owner reserves the right to waive any irregularities, reject any or all bids, or accept the bid that in the opinion of the Owner will serve the best interest of the Owner. The Owner also reserves the right to reject the bid of any bidder who has previously failed to perform properly, or to complete on time contracts of a similar nature, or who is not in a position to perform the contract, or who has habitually and without just cause neglected the payment of bills or otherwise disregarded his obligations to Sub-contractors, Material Men or Employees.
- B. The ability of a bidder to obtain a performance bond shall not be regarded as the sole test of such bidder's competency or responsibility.

7.02 ACCEPTANCE OF OFFER

A. After acceptance by Owner, Architect on behalf of Owner, will issue to the successful bidder, a written Notice To Proceed.

7.03 WITHDRAW OF PROPOSALS

A. Any bidder may withdraw his bid at any time prior to the hour and date specified for openings. No bidder may withdraw his proposal for Sixty (60) days thereafter. Negligence on the part of the bidder in preparing his bid confers no right of withdrawal or modification of his bid after such bid has been opened.

ARCHITECT'S SERVICES

8.01 ARCHITECT'S BASIC SERVICES

- A. The Architect will schedule and conduct a pre-construction meeting before work starts.
- B. The Architect will make job site visits on a scheduled basis (or) on a random basis, (approximately one per week), during the course of construction. He shall be provided with access to all areas of work to ensure construction is proceeding in accordance with the contract documents. The Contractor shall schedule all sample mock-ups, questions regarding the project, any special meetings for Architect's review and approval during this visit.
- C. The Contractor is responsible to notify the Architect 48 hours in advance for the following special visits:
 - 1. First day of job set-up to review material storage placements & general layout
 - 2. All excavations prior to backfill or concrete placement & during testing, after demolition, but before new materials are installed, to view concealed job conditions.
 - 3. To review/approve all samples of construction before Contractor continues with the work. Sample areas may be described in other Divisions of the Specifications this may also include special visits by manufacturers of systems.
 - 4. When observations/reviews/approvals are made by representatives of Manufacturers and Suppliers
 - 5. The Contractor shall submit a notice of completion letter to the Architect in writing when all work is complete and ready for a punch list. Under the normal services, the Architect will make (1) punch list visit, (1) re-punch and (1) random final check. The initial punch list will be made by the Architect in the presence of the Contractor and the Owner to determine what items may need corrections and if the project is substantially complete. One week's advance notice is required.

The punch list will be written up by the Architect and describe general and/or specific items in general locations. It is the Prime Contractor's responsibility to also make a list of his own, dealing with the specifics and translate them to the proper Sub-Contractors.

If the Architect arrives at the job site and the project is not done and ready for a punch list, but rather a "to do list", the Architect has the right to leave and will only return when notice of completion is again received in writing. This process will use up (1) of the normal punch/re-punch visits.

The first re-punch and the final random re-punch visit shall again be requested in writing, similar in format to the initial punch list.

6. The punch and re-punch list include physical items in the field requiring completion, as well as paperwork items that must be submitted prior to job "close-out" and "final completion" as noted in the General/Special Conditions. Final payment can only be considered once <u>all</u> items are completed to the satisfaction of the Owner/Architect.

8.02 ARCHITECT'S ADDITIONAL SERVICES

- A. The contractor should review the special conditions for any applicable liquidated damages that apply for failure to meet "substantial" or "final completion" dates. In addition to these costs, or in the event that liquidated damages are not part of this contract, the contractor is responsible to reimburse the owner for the direct costs incurred for additional time by the architect, administrative/custodial staff, attorney, etc., when the project goes beyond the established dates and the cause of the delay is not beyond his control.
- B. The Contractor will be responsible to pay for all additional Architectural services, including all special visits requested by the Contractor to resolve problems that are due to the lack of performance by the Contractor. Examples of certain circumstances which will cause the Contractor to incur additional Architectural service fees include, but are not limited to the following:
 - 1. Shop drawing submittals that are rejected due to being incomplete or for submitting on materials other than as specified and noted on the Bid Proposal Form.
 - 2. Contractor elects to use more than (1) Sub-Contractor for any trade that results in duplicate shop drawing submittals.
 - 3. Contractor requests a punch list in writing and Architect finds the work incomplete.
 - 4. If the Contractor fails to complete all punch list items within the (3) punch/re-punch visits allowed, the costs for all additional punch list visits will be deducted from the final cost amount due to the Contractor to cover any Architect's, Owner's, or Attorney's additional services at their regular billing rate until the work is accepted by the Architect and Owner.
 - Contractor installs other than approved materials, resulting in additional time incurred by Architect
 - 6. Contractor changes job Foreman or fails to have job Foreman present on job when visited by the Architect, which requires Architect to educate new Foreman to job status or repeat instructions.
 - 7. Contractor's layout or installation is found to be significantly different than the design or shop drawings and the Architect is required to review, approve, or make extensive revisions.
 - 8. Contractor's failure to promptly correct or make good any problem that is part of this contract work and falls under the Contractor's responsibility to properly work as intended, either during the course of construction, or during the close-out period, all of which requires additional time by the Architect for reviews, observations, etc.
 - All Architect's/Engineer's time to close out the project beyond the thirty (30) days after substantial completion, including making phone calls, writing letters, reviewing documents, special close-out meetings, etc., unless a time extension has been approved with a signed change order.

10. Note: All additional time required by the Architect to resolve any of the above items will be back charged against the contract amount based on the Architect's/Engineer's current hourly rate and made payable to the Architect by the Owner. The Contractor shall be informed by the Architect within ten (10) days of any incident of any intent to invoke back-charges for additional Architectural services. It shall be the Contractor's responsibility to request in writing any estimates of additional costs to be incurred. Contractor's failure to respond to the estimate in a timely manner will be interpreted as Contractor's acceptance of all additional Architectural services for back-charges as summarized by the Architect.

END OF SECTION



Monroe Public Schools Conviction Disclosure Form – New Employees

I UNDERSTAND THAT THE INFORMATION REQUESTED IS REQUIRED BY THE CENTRAL RECORDS DIVISION OF THE MICHIGAN STATE POLICE, LANSING, MICHIGAN. I FURTHER UNDERSTAND THAT A CONVICTION RECORD DOES NOT NECESSARILY PREVENT ACCEPTANCE OF EMPLOYMENT. I AUTHORIZE MONROE PUBLIC SCHOOLS TO UTILIZE THE ABOVE INFORMATION FOR THE PURPOSE OF OBTAINING INFORMATION REGARDING A CRIMINAL CONVICTION.

Last	F	irst	Middle
Maiden nar	ne or names previously used:		
Birthdate:		Race:	Sex:
Building:		,	Assignment:
Pursuant	to Public Act 138 of 2005, I rep	resent that (che	ck all that apply):
1.	I have not been convicted of, finding of guilt by a judge or ju		olo contendre (no contest) or am the subject of a
2.	finding of guilt by a judge or	jury for the follow	o contendre (no contest) or am the subject of a ring crimes (attach a separate sheet of paper to city/state, and circumstances surrounding the
	Felony	Misdemea	nor
	Felony	Misdemea	nor
	Felony	Misdemea	nor
In signing t	this form, I understand and agree	that:	
if I	have been convicted of a fel-	ony, other than	ment shall be terminated. I also understand that a listed offense, the superintendent, or chief a, in writing, my employment or work assignment.
as		e criminal history	d by the employing school district, I am regarded report is not the same as my representation(s) of the school district.
Signature		70.00 Mar. (1990)	 Date

SECTION 007400 SUPPLEMENTARY AND SPECIAL CONDITIONS

PART 1 GENERAL

1.01 CONTRACTS, BONDS AND INSURANCE

A. Contract

- 1. The Architect will prepare the AIA Document A101-2017, Standard Form of Agreement Between the Owner and Contractor based on the bid amount agreed by the Owner. Successful bidders will be required to furnish bonds and insurance in accordance with the provisions of the General Conditions. Executed duplicate copies of bonds and insurance certificates will be required for each set of contract documents. On this project the Owner elects not to require "Project Management Protective Liability Insurance".
- 2. All conditions of all contract and sub-contracts for labor and material to be furnished on this work shall be as set forth in the General Conditions for Building Contracts, Form A-201-2017, latest edition of the American Institute of Architects. Where there is a difference between this project manual and Form A-201, this project manual shall govern. All Contractors and Sub-Contractors shall familiarize themselves with all conditions of this form and be bound by them. (Copies available from the AIA, www.documentsondemand.AIA.org, at cost.)

B. Guarantee Bonds:

- 1. Article 11.5 of the General Conditions shall be supplemented as follows:
 - a. "Prior to signing the contract, Contractor shall pay the premium for and furnish Performance Bond in the full amount of the contract price to cover faithful performance of the contract, and a Labor and Materials Bond in full amount of contract price to cover payment of all obligations arising thereunder. Bonds shall be in such form as Owner may prescribe and with such sureties as he may approve."
- 2. In lieu of the Performance and Labor Bond as stated above, and if allowed in the bid advertisement and the project contract cost including Alternates, is under \$50,000.00, the Contractor may perform the work to the point of total completion before receiving any payments. The payment will be issued upon completion of all physical and paperwork. However, the Contractor's bid surety (certified check only of 5% of bid) will be held by the Owner until completion. On any work with a contract cost of \$50,000.00 or more, a 100% Performance/Labor Bond must be provided.
- An irrevocable Letter of Credit from a local Monroe County banking institution in the amount of the contract is allowed in lieu of a Performance and Labor Bond. The irrevocable Letter of Credit must conform to standards of the "Uniform Customs and Practice for Documentary Credits, 1983 Revision, The International Chamber of Commerce Publication No. 400".

C. Insurances:

- 1. Article II of the General Conditions shall be supplemented as follows:
 - a. "Insurance shall be written for amounts as required by law or not less than the following limits of liability" for personal and property loses:

 General Aggregate
 = \$2,000,000.00

 Producst and Completed Operations Aggregate
 = \$2,000,000.00

 Personal & Advertising Injury
 = \$1,000,000.00

 Each Occurrence
 = \$1,000,000.00

 Medical Expense
 = \$5,000.00

 Automobile - Owned/Non-Owned
 = \$1,000,000.00

- b. The Owner shall provide and pay the premium for Owner's liability and builders risk insurance
- c. Contractor shall provide certificates of coverage for necessary unemployment insurance, workman's compensation, etc., as required by the State of Michigan and the Federal Government.
- d. Contractor shall provide and pay the premium to add the Owner and Architect as additional insured to the insurance coverage for this work (See this section for Hold

- Harmless / Indemnify). (This is to cover any claims against Owner/Architect due to Contractor's negligence.)
- e. Only Certificates of Insurance Certified using Accord Form #25-S (7-90) will be acceptable. All insurance shall be carried with companies authorized to do business in the State of Michigan and which are satisfactory to the Owner. See sample certificate at end of "Instruction to Bidders".
- f. The insurer shall agree to notify the project Owner prior to termination, or reduction of any insurance coverage. The certificate shall include the following statement, "30 Day Notification in Case of Cancellation", and shall contain no disclaimers.
- g. The Contractor shall require his Sub-Contractors who are not protected under his liability and workman's compensation insurance to purchase and maintain their own insurance of the same types and limits as is required of the Contractor.

1.02 EXAMINATION OF SITE, MEASUREMENTS & LEVELS:

- A. Bidders shall visit the site of the work, compare the drawings and specifications with any work in place, and inform themselves of all conditions, including other work, if any, being performed. Failure to visit the site will in no way relieve the successful bidders from the necessity of furnishing any materials or performing any work that may be required to complete the work in accordance with the contract documents without additional cost to the Owner.
 - 1. Each Contractor shall be responsible for the correct installation of his work to comply with the plans and specifications.

1.03 GENERAL CONTRACT

- A. Local Labor & Materials Each Contractor shall give preference to the employment of local labor and the purchase of materials locally where same are available at prices equivalent to those obtainable elsewhere.
- B. Current Laws The Contractor shall keep himself fully informed of all laws and municipal ordinances and regulations in any manner affecting those engaged or employed in the work, and all orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. He shall, at all times, observe and comply with all such current laws, ordinances, regulations, orders and decrees which are effective during the progress of the work; and shall protect and indemnify the Owner and its officers and agents against any claim or liability arising from or based on the violations of any such law, ordinances, regulation, order or decree, whether by himself, his Sub-contractors, or his employees.
- C. Collusion If at any time it shall be found that the person, firm, or corporation to whom the contract has been awarded has, in presenting any bid or bids, colluded with any other party or parties, then the contract so awarded shall be null and void, and the Contractor and his sureties shall be liable to the Owner for all loss or damage which the Owner may suffer thereby and the Owner may advertise anew for bids and said work.
- D. Responsibility The Contractor is primarily responsible for all work. He shall coordinate all Suppliers, Sub-Contractors, etc., that he may contract work with. He shall notify all Sub-Contractors in advance to avoid any unnecessary delays. The Contractor shall assume responsibility for the general charge and security of the building within the contract limits until it is accepted by the Owner. Contractor shall be responsible for maintenance of his work until final acceptance by Owner, and shall take such measures as necessary to ensure adequate protection of equipment and materials during delivery, storage, installation, start-up, temporary operation and shut-downs and any damage, vandalism, thievery, etc., to stored, or installed materials or any part of this construction.
- E. General/Prime Contractor's Responsibility It is the General Contractor's responsibility to provide and install all items specified in this contract, to assemble and collect all parts, materials, equipment, labor, etc. as required for a complete finished installation. Where these documents state, for clarification purposes that the work or item is to be completed by certain trades or Sub-contractors, (i.e. Mechanical or Electrical Contractor), it shall be referenced only to those related divisions. These specifications and drawings do not control the Contractor in dividing the work among his workers, Sub-contractors, suppliers, etc., or in establishing the extent of work to be performed by any trade.

- F. Lay Out The Contractor shall immediately locate all general reference points and take such action as is necessary to prevent their destruction; lay out his work and be responsible for all lines, elevations and measurements of buildings, grading, paving, utilities and other work executed by him under the contract. He must exercise proper precautions to verify figures shown on drawings before laying out work and will be held responsible for any error resulting from his failure to exercise such precaution.
- G. Cooperation & Courtesy There must be complete co-operation between all Contractors, as well as between Contractor and Sub-Contractor, to insure satisfactory performance of all work. Foul language, alcoholic beverages and illegal or controlled substances/drugs will not be allowed by anyone under the control of this Contractor. Tobacco usage will also not be allowed where prohibited by law or by the Owner's wishes/policies. Courtesy must be exercised towards the owner, their staff and customers, deliverymen, etc., at all times.
- H. Skilled Labor All labor on this project shall be done by skilled mechanics, qualified and competent to perform the best grade of workmanship in the trade of work being performed, such as a Roofer shall not perform finish carpentry or drywall work in an exposed location.
 Each Contractor and Sub-contractor shall provide a competent foreman at the job, who shall be responsible for taking instructions from the Architect and directing and installation of the Contractor's work.
- I. Equal Opportunity It shall be understood that the Contractor shall comply with the State Policy of Equal Employment Opportunity established by the Michigan Civil Rights Commission. The following Civil Rights Laws must be conformed to:
 - Title VI of the Civil Rights Act of 1964, as amended, 42 U.S.C., Section 2000d et seq., which prohibits discrimination on the basis of handicap in programs and activities receiving Federal financial assistance
 - 2. Section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C., Section 794, which prohibits discrimination on the basis of handicap in programs and activities receiving Federal financial assistance.
 - 3. Title IX of the Education Amendments of 1972, as amended, 20 U.S.C., Section 1681 et seq., which prohibits discrimination on the basis of sex in education programs and activities receiving Federal financial assistance.
 - 4. The Age Discrimination Act of 1976, as amended, 42 U.S.C., Section 6101 et seq., which prohibits discrimination on the basis of age in programs or activities receiving Federal financial assistance.
- J. Hold Harmless/ Indemnify Clause The Contractor agrees to comply with all laws and regulations applicable to the work to be performed and will indemnify, defend and save harmless the Owner and Architect and said property from damage which may arise as a result of the work performed and list each on certificates of insurance as additional insured, if Project Management Protective Liability Insurance is not provided.
- K. Shop Drawings & Data Sheets Submit shop drawings per 013000 Administrative Requirements for review by the Architect. A copy of all shop drawings shall be kept at the job site by the Contractor. The Contractor shall review and stamp approved, note changes, etc., before submitting to the Architect.

Shop drawings are not contract documents. Their purpose is to demonstrate the way the Contractor proposes to conform with the information given on the Architect's drawings. Shop drawings shall be submitted on all pre-manufactured items, custom fabricated components, any individual component that fits with or into another component to form the entire assembly, or on items specifically specified in certain divisions.

The Contractor, his Sub-Contractor and Supplier shall be responsible to determine and verify all materials, field measurements and field construction data, prior to submittal to the Architect. The Architect's review is only for the limited purpose of checking conformance with information given and the design concept expressed in the contract documents. The Architect's review is not conducted for the purpose of determining the accuracy and completeness of details, such as dimensions, quantities and the assembly of specific components to work as a whole. The Architect is also not responsible for any safety precautions, construction means, methods,

techniques, sequences or procedures.

It shall also be the responsibility of the Contractor, his Sub-Contractor or Supplier to work from a full set of contract documents in preparation of the shop drawings, so that each part or component will work with those parts as furnished or fabricated by others, so that the assembled whole works together as intended.

Shop drawings shall be submitted to the Architect early enough to allow adequate ordering, fabricating and delivery to the job site. Once received by the Architect the shop drawings will be returned to the Contractor in a timely manner. For estimating purposes and fitting into the job progress construction schedule, the following estimates of time may be used: Engineered reviewed drawings - 14 days; in-house Architectural reviewed drawings 7-10 days. Failure by the Contractor to submit enough in advance to the Architect in no way relieves the Contractor from completing the work in the time frame specified. The Contractor relieves the Architect of all responsibility and liability should he proceed with construction, fabrication or delivery of the specified part(s) without obtaining the Architect's review first.

Data sheets, manufacturer's specifications, picture cuts, etc., shall be submitted for all materials proposed to be used in this contract. All materials shall be asbestos free, 100%. No use of any materials, glues, sealants, gaskets, etc., containing any trace of asbestos shall be used on this project. Data Sheets shall clearly state the product's composition, or that no asbestos is used.

All finish materials and/or their adhesives for securing to substrates, shall meet the A.D.A. (American Disability Act), as passed July 1990 and revised September 15, 2010 to regards to elimination of toxic/allergic chemical contamination via direct vapors/fumes, or when in contact with normal spilled materials and cleaning agents.

Submit at the beginning of the project an index sheet listing all proposed shop drawings to be submitted.

- L. As-Builts The Contractor shall keep an accurate record of all deviations from the contract drawings and specifications. He shall neatly and correctly enter in pencil any deviations on the drawings affected and shall keep drawings available for inspection. Extra set of transparencies will be furnished for this purpose. Submit As-Builts per 013000 Administrative Requirements and 017000 Execution and Closeout Requirements for review by the Architect.
- M. Manuals & Brochures The Contractor shall submit per 013000 Administrative Requirements and 017000 - Execution and Closeout Requirements to the Architect at completion, maintenance manuals, instructions, parts, etc., of all items installed as part of this work. Include all warranties, application for extended warranties, etc. These items shall be submitted as shop drawings.
- N. Debris All rubbish resulting from the work herein specified shall be removed from the premises as fast as it accumulates.

1.04 DEFECTIVE WORK & GUARANTEE:

- A. The Contractor shall maintain his work in good condition, and repair at his own expense any work or material which proves to be defective within one (1) year from the time of final payment. A specific time can be determined towards the end of job, but it is estimated as approximately thirty days after substantial completion. This shall not be construed to cover misuse or abuse. Submit the guarantee in writing to the Architect upon completion. Specific material, equipment, or special trade warranties and guarantees as noted in these specifications shall also be submitted in writing. All warranties shall be written using the format and language as in sample warranty listed at the end of this section. Included, but not limited to, shall be the following:
 - 1. All Sub-contractors shall submit a signed written warranty same as the general contractor.
 - 2. All warranties shall be addressed to the Owner, on Company's letterhead.
 - 3. All equipment warranties shall start from date of project substantial completion in the phases noted not the dates the equipment was installed or started up.
 - 4. All work under this contract, in addition to the roof, shall be watertight and leak proof throughout at every point, and in every area, for a period of (1) year from date of final payment, except where leaks can be attributed to damage caused by external forces beyond the Contractor's control. The Contractor shall immediately, upon written

- notification by the Owner, respond to the site to determine the source of water penetration and if found to be caused from faulty materials/workmanship resulting from this contract, repair or replace the item(s) or do any other work necessary to make watertight at his own expense.
- 5. Contractor shall also, at his own expense, repair or replace, or reimburse the Owner for any damaged materials, finishes, and furnishings/contents damaged as a result of this water penetration, in order to return the premises back to the same condition prior to the water penetration.
- 6. In addition to the warranties as stated in this manual, the Contractor shall comply with all other warranties referred to in any portions of the contract documents or otherwise provided by law or in equity, and where warranties are in conflict, the more stringent requirement shall govern.
- B. Neither the final certificate nor payment shall relieve the Contractor of responsibility for lack of conformance to the contract documents, lessening the quality of specified work or scope, errors, negligence, faulty materials or faulty workmanship within this contract, the period provided by law at the location of this project, or any special equipment/material warranties.
- C. The Contractor shall bear the cost of correcting mistakes, which by a reasonable check he could have avoided.
- D. The Contractor shall promptly remove from the premises all materials, whether worked or unworked and take down and remove all portions of contract work demanded by the Architect or his representative as failing to conform to the contract.
- E. The Contractor shall promptly replace and re-execute the work in accordance with the contract and shall bear expense of same, together with the expense involved in making good all work of other Contractors destroyed or damaged by each removal or replacement. If the Architect deems it expedient to accept work injured or not done in accordance with the contract, the difference in value, making a full allowance for damage, shall be deducted from the contract sum if acceptable to the Owner.
- F. Each Sub-Contractor shall warrant that all work installed by his company, including that movable or adjustable, shall remain in good working order and agrees to remedy and correct and place in proper operating condition all such found not in good working order during the period of warranty unless such work has been abused or neglected by the Owner.

1.05 DEFINITIONS:

- A. Architect Shall be interpreted to mean **Kohler Architecture**, **Inc.**, or his authorized representative.
- B. Contractor Shall be interpreted to mean the Prime Contractor who has a direct contract with the Owner. (assumed General Contractor)
- C. Owner Shall be interpreted to mean Monroe Public Schools
- D. Sub-contractor Shall be interpreted to mean any person or entity who has a direct contract with the Prime Contractor, either supplying labor or materials.
 - The Prime Contractor shall employ only (1) Sub-Contractor/Supplier for each trade/category of work for the entire contract, or in the case of multiple building/sites, (1) Sub-Contractor/Supplier in each trade/category for all sites/buildings. This improves coordination and project scheduling, reduces shop drawing and payroll reviews, and standardizes materials and installation.
- E. Substantial Completion Shall be defined to mean when the Architect establishes in writing, based on his knowledge, observations and beliefs, that all necessary components are installed for the project to be acceptable for the Owner's intended use and beneficial occupancy, including the Contractor obtaining governing agency approvals (City, Township, County, and/or State) on all permits issued on this project. The project must meet substantial completion no later than the date established elsewhere, unless amended by change order.
- F. Final Completion Shall be defined to mean when all work, including completion of all punch list items, paper work has been submitted (guarantees, final waivers, as-builts, etc.) and the Architect approves the Contractor's final certificate for payment.

1.06 SPECIAL CLARIFICATIONS:

- A. Manufacturer's Specifications All materials, items, equipment, etc., shall be installed in accordance with the manufacturer's specifications and recommendations when not otherwise specified. These specifications do not replace or override any installation manuals/directions. The installer shall provide all materials and perform all work that is needed for this application, whether specialized to this installation or not, as required and/or recommended by the manufacturer so as not to void any warranties and functions properly so that each component becomes part of the entire assembly.
- B. Where a material or installation is specified in these specifications and is in conflict with manufacturer's recommendations, the Contractor shall immediately notify the Architect before proceeding with the work. Failure to do so will place full responsibility upon the Contractor performing the work.
- C. Methods of Construction The Contractor takes full responsibility and liability for the means and methods of construction to perform the work under this contract. The timing, scheduling and skill of workers and suppliers shall be coordinated prior to beginning any work. The type of equipment, installation, sequence, temporary provisions, etc., all as required to produce the finished product for a first-class installation shall be determined by the Prime Contractor. Any delays, errors, omissions or any other problems caused to the job by a change in Subcontractors or suppliers, bad scheduling, lack of supervision, material deliveries, etc., shall be borne by the Prime Contractor.
- D. Changes These drawings and specifications are provided to give the Contractor an understanding of the systems and materials to be installed under this contract. Where the scope of work or details are in conflict with job conditions, the manufacturer's specifications, manufacturer's guarantee, etc., they shall be modified as required by the Contractor. The Architect shall be notified prior to any change. When these details exceed the manufacturer's requirements and the guarantee, no change shall be made, unless so directed by the Owner or Architect, and the work shall be performed in strict accordance to these drawings and specifications.
 - When a change is initiated either by the Owner, Contractor or Architect, the Contractor shall submit a cost breakdown of the change for approval by the Architect and Owner, before proceeding with the work. Any change in completion date shall also be documented. A formal Change Order, signed by the Owner, Contractor and the Architect will follow to authorize the work to be done and the contract amount and/or completion date to be changed. A Change Order must be fully executed before including on pay requests.
- E. To insure the intent of the contract documents are being complied with and since the Architect is not providing full time inspection/observation services, the Contractor shall perform the following:
 - On all demolitions, removals, excavations or existing concealed conditions, the Contractor shall certify that conditions found were as anticipated, or as specified in the contract documents. If the above conditions are closed-up, covered, or back-filled prior to notifying the Architect or prior to his scheduled inspection, the Contractor shall document with photos, measurements and/or sketches how the concealed conditions were constructed.
 - 2. Should the Contractor become aware of any deviations, unusual circumstances, cause for extra work, or other reasons he feels may have an effect, or cost change on this contract, he shall immediately notify the Architect for directions.
 - Contractor's failure to notify the Architect/Owner, prior to performing the additional work, accepts full responsibility for any extra costs, delays or non-acceptance by the Owner or Architect that may be produced or incurred to the contract.
- F. Discrepancies Should the contract documents disagree (drawings and specifications), the better quality or larger quantity of materials or work shall be included in the bid and unless otherwise ordered in writing, shall be furnished by the Contractor.
- G. Standard Codes Reference made to standard specifications or codes refer to latest edition unless otherwise noted. Such reference includes current addenda and errata, if any. All work shall meet or exceed all zoning and code requirements, including the current Michigan Building

- Code, or as adopted by the local building authority, and State Fire Marshal.
- H. Organization The organization of the specifications into Divisions, Sections and Articles, and the arrangement of drawings shall not control the Contractor in dividing the work among Subcontractors or in establishing the extent of work to be performed by any trade.
- I. Materials Shall be new. Seconds or damaged materials will be rejected by the Architect, who reserves the right to disapprove and reject any materials proposed or installed, which in his opinion fail to meet quality standards specified. Contractor shall, at his expense, remove and replace with approved materials, any rejected materials.
- J. Labor As noted elsewhere, it is the Prime Contractor's responsibility to keep the job moving according to the progress schedule and meet completion dates specified or stated in the Bid Proposal. Whether Workers/Sub-Contractors/Suppliers are union or non-union, default, quit, fail to perform, it is the Prime Contractor's responsibility to work out problems that may occur to keep on schedule and prevent any damages, delays, or disturbances caused to the Owner and/or job site.

1.07 DAMAGE & REPAIRS TO SITE & BUILDING:

- A. The site, building and furniture or equipment, including such items as walls, ceilings, floors, roofs, trees, drives, walks, curbs, gutters, paving, grade areas, etc., cut up or damaged during construction of this project shall be repaired or replaced in a neat and workmanlike manner, to the satisfaction of the Owner and Architect, by the Contractor responsible.
- B. The Contractor shall be responsible for the security, water tightness and systems operation of the building in areas of this work. Any vandalism, water damage, theft, electrical/mechanical damages, etc., to the building or its components or any stored or installed materials as part of this work, or furniture and equipment (ceilings, floors, walls, desks, computers, books, papers, etc.) shall become the Contractor's responsibility to restore (replace or repair) all items to their same condition as when the work started. Included, but not limited to, shall be all additional costs for Architects, Attorneys and Owner's staff time to clean up, document and resolve any damages or issues.

1.08 PROGRESS PAYMENT:

- A. Owner shall make payments on account, upon issuance of certificates of payment by the Architect, for labor and materials incorporated in the work and for materials suitably stored at the site, up to ninety percent (90%) of the value thereof. Properly documented invoices shall be submitted for all stored materials. Pay requests shall reflect only the work stored or completed at date of submittal to the Architect. No projections of cost for anticipated work beyond the submittal date will be allowed.
- B. Payments shall stop at 90% of the total contract, until project is SUBSTANTIALLY COMPLETE (Owner's use) and until governing agency (Governing Building Authority) has given approval. (See Substantial Completion definition in Section 1.1D-5)
- C. Final payment will be made when the work is FULLY PERFORMED and FINAL COMPLETION is achieved.
- D. Certain specialty construction projects are subject to other payment conditions, such as reroofing, re-paying, etc. (see Special Payment Conditions at end of this Division, if applicable).
- E. Also see Instructions to Bidders for any other requirements.

1.09 LABOR RATES

- A. State Funded Projects
 - On all State projects or state funded projects, the contractor shall abide by the minimum wage rates, employment standards, occupational classifications, etc., as issued by the Federal and State Department of Labor, per the Federal Register (for prevailing rates for this project, see attached sheet at the end of this section. Contractor's labor rates must be submitted with each pay request. HUD Form WH 347 (available at the Architect's office) or another form similar with same information shall be used.
 - 2. The rate schedule will remain current for the entire length of the project, providing the contract is awarded before the listed award date as noted at the top of page one of the

published rates. For clarification, contact the State of Michigan, DELEG, Wage and Hour Division at address as listed on the rate schedule.

1.10 TIME OF COMMENCING & COMPLETION:

- A. Contractor, upon award of contract, shall begin immediately to order materials so work can begin with no delays in material deliveries.
- B. All auxiliary Sub-contractors (Electrical, Carpentry, etc.) performing work under this contract at same time that Contractor is doing work, are obligated to commence, carry on, co-ordinate and complete their work in the various stages, so that the whole job will be accomplished in a scheduled manner and so that the Prime Contractor will be able to complete his work within completion time fixed.
- C. To assure that all materials are placed on order and their delivery to site does not cause any unnecessary delays, the Prime Contractor shall submit transmittals, or copies of purchase orders, confirmations from the Sub-Contractor or the Supplier, along with delivery dates to the Architect for his records. This information shall all be submitted at same time, along with a weekly bar graph progress schedule, as prepared by the Prime Contractor. All schedules, purchase orders, etc., shall be submitted and approved by the Architect before any contract work begins.
- D. For purposes of determining the date that contract may be awarded and for ordering materials, and submittal of shop drawings, the date of **04-23-2024** shall be used.
- E. Physical Work shall begin as soon as weather permits starting **06-10-2024** so that the completion date is achieved. On site storage of materials before this date will only be allowed in a locked trailer at Contractor's expense and with Owner's advanced approval.
- F. All work on this project shall be "Substantially Completed" on or before 08-16-2024, at 5:00 P.M., or sooner as stated in the bid proposal by the bidder. See this Division regarding Liquidated Damages. All work, including punch lists, paper work, etc., as described for receiving final payment and termed "Final Completion" shall occur within thirty (30) consecutive days after the "Substantial Completion" date. (See Liquidated Damages Section for damages should dates not be met.)
- G. The above dates/schedules are based on current delivery of equipment, estimated man-hours, and anticipated weather conditions for the scope of work. Contractors shall verify availability of all materials during the bidding process and list on the bid proposal the manufacturers of equipment that will not conform to this schedule. Should the equipment manufacturers as specified, not fit the anticipated schedule, list other equal equipment in area provided on bid proposal for substitutions, along with any cost changes for the Owner's consideration

1.11 HAZARDOUS MATERIAL:

- A. If any Contractor during the course of construction, or work, observes the existence of asbestos, lead base paint, P.C.B., or other hazardous materials in the structure or building, or in area of work, the Contractor shall promptly notify the Owner. The Owner shall consult with their environmental consultant regarding removal or encapsulation of the questioned material. The Contractor shall not perform any work pertinent to the hazardous material prior to receipt of special instructions from the Owner. Any work involved with hazardous material removal, handling, etc., shall NOT be part of this Contract or any Field Orders relating to this Contract.
- B. On this particular job and in the area of work, or related area that may be affected due to this work, certain hazardous materials may exist and if known will be properly identified or made known to the Contractor by the Owner. It is the Contractor's responsibility to exercise care in performing all operations of this work to not disturb or affect these materials, either directly, or in-directly (such as water damage, materials dropped, etc.). If an incident should occur, the Contractor shall immediately notify the Owner and his insurance company and safeguard the area. The Owner will make an inspection and advise of all procedures to be implemented. It is the Owner's responsibilities to contact their hazardous material consultant and perform all work to test, remedy and enclose the situation, all at the Contractor's expense. The cost will be deducted from the contract amount, or the Contractor's insurance company will reimburse the Owner directly.

- C. The Architect shall have no responsibility for the discovery, presence, handling, removal, or disposal of, or exposure of persons to asbestos and hazardous materials in any form for the project.
- D. The Contractor shall inform himself of the presence of asbestos/hazardous materials which may be present in the buildings by reviewing the Owner's copy of the A.H.E.R.A. Management Act (Asbestos Hazards Emergency Response Act), which is available in each building, or by contacting the Owner.
- E. The Contractor shall be responsible to inform all workers of all known hazardous materials present at the job site prior to starting any work and instruct each worker on the proper safeguards required, so as not to disrupt any encapsulated or contained hazardous materials.

1.12 SALVAGEABLE ITEMS:

- A. All existing items called for to be removed, or are abandoned, or are in the way of this new work, shall be completely removed and disposed of offsite at a licensed disposal facility by this Contractor unless noted differently.
- B. See related Divisions 024100 Demolition, Mechanical and Electrical Divisions.

1.13 LIQUIDATED DAMAGES & COMPLETION OF WORK:

- A. It is hereby understood and mutually agreed, between the Contractor and the Owner that the date of completion, as specified in the Proposal, is an essential condition of this Contract, and that the time for the completion of the work described herein is a reasonable time for the completion of the same, taking into consideration the average climatic range and prevailing industrial conditions.
- B. If the Contractor shall fail, neglect or refuse to **SUBSTANTIALLY COMPLETE** the work within the time herein specified, or within any proper extension thereof granted by the Owner, the Contractor does hereby agree, as a part of the consideration for awarding this contract, to pay to the Owner the amount specified herein as Class A liquidated damages for each and every calendar day that the Contractor shall be in default after the time stipulated for SUBSTANTIAL COMPLETION of the work. The amount of Class A liquidated damages shall be deducted from the estimated amounts coming due and payable to the Contractor at the rate of **\$1,000** per day, after the date as specified in the special conditions for SUBSTANTIAL COMPLETION.
- C. If the Contractor shall neglect, fail, or refuse to obtain FINAL COMPLETION of the contract and final acceptance of the project by the Owner within the time herein specified, or with any proper extension thereof granted by the Owner, then the Contractor does hereby agree, a part of the consideration for awarding this contract, to pay to the Owner the amount specified in the proposal as Class B liquidated damages for each and every calendar day that the Contractor shall be in default after the time stipulated for FINAL COMPLETION and acceptance of the project by the Owner. The amount of Class B liquidated damages shall be deducted from the estimated amounts coming due and payable to the Contractor at the rate of \$100 per day, after the date as stated in the special conditions for FINAL COMPLETION and acceptance of the project by the Owner.
- D. The Contractor shall not be charged with liquidated damages or any excess cost when the Owner determines that the Contractor is without fault due to unforeseeable cause beyond the control and without the fault or negligence of the Contractor, including but not restricted to acts of God, or of the public enemy, acts of the Owner, acts of another Contractor in the performance of a contract with the Owner, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes and severe weather.
- E. Request for the extension of time for completion beyond the completion date noted in the Invitation to Bid may be requested in writing of the Owner by the Contractor. Such request to be considered must show reasons beyond the control of the Contractor. All requests shall be submitted within five (5) days of when problem becomes known to the Contractor.

1.14 TEMPORARY FACILITIES:

A. Enclosures - Contractor is responsible for any damage to all materials, stored or built into this work under this contract, due to elements of the weather, vandalism, theft, fire, etc. No open

- areas of work shall be left open during non-working hours or inclement weather. Contractor is responsible for all damages caused due to this contract, to all materials, whether existing or incorporated into this work.
- B. Storage Each Contractor shall erect a materials storage shed, properly covered, locked, etc., as required. Contractor is responsible for stored materials. Stolen, damaged or destroyed materials shall be replaced at the Contractor's expense. No inside of building storage of materials is allowed before the date noted herein as start of physical work. No inside storage is allowed after construction starts unless it is in the area of work governed by this contract and is under the Contractor's full control and contract limits.
- C. Field Office None Required
- D. Toilet Facilities Workmen will be allowed to use existing facilities. Contractor shall be responsible for maintaining and keeping areas clean.
- E. Miscellaneous Contractor shall provide all temporary drainage, drains, sumps, walkways, railings, etc., as required for proper execution of work and as required to meet all codes and ordinances.
- F. Debris Removal All debris resulting from this work shall be cleaned up at end of each day's work and hauled away from job upon completion to a licensed disposal site. Prime Contractor shall provide a dumpster as required for use by all Sub-Contractors and pay for all usage/dump charges.
- G. Removal Temporary facilities shall be removed when no longer required, or at completion and site restored to original condition.
- H. Exits Provide temporary ladders, railings, etc., as required for emergency use during construction. Proper exiting of building shall be maintained at all times.
- Temporary Heat Contractor shall provide and maintain all temporary heating and ventilating units during construction as required to properly execute this contract. All fuels used shall be paid for by the Contractor. (No electric units)
- J. Barricades Provide all necessary barricades, fencing, flagmen, etc., to properly control and assure the safety of workers and the public during this work.
- K. Water The Prime Contractor shall make suitable connections as required to perform the work. Water to be available at site as provided by the Owner.
- L. Electrical The Contractor shall make suitable connections as required to perform the work. Electricity will be available on the site as furnished and paid for by the Owner. See Electrical Division for other requirements.
- M. Telephones Contractor can use on-site pay telephones if available. Contractor is not to use Owner's general telephones.
- N. Fencing Prime Contractor is to secure the contract limits of this work with snow type fencing or better as needed to secure the construction site off limits to unauthorized people. Safety to staff, students and public is of utmost importance. All ladders, scaffolding, doors, windows, entries, and other attractive/inviting items, shall be secured during non-working hours.
- O. Temporary Fire Barriers In student occupied buildings, temporary fire rated doors/barriers are to be installed when the students are scheduled to occupy the building and construction is not complete.
- P. Road Maintenance Contractor shall keep the Owner's roads free of construction spillages and debris at all times. Repair damage caused to these roads by contract-related construction vehicles by replacing damaged pavement and curbing to match existing construction.
 - Construct and maintain temporary earth ramps for access and egress of heavy construction and delivery vehicles to below grade (excavated) areas of the construction site.
- Q. Parking Contractor may use designated areas of Owner's parking facilities for passenger vehicles only. Heavy construction equipment will not be permitted on Owner's parking facilities. Maintain and repair any damage caused by use of Owner's parking facilities. Maintain parking area for construction vehicles as designated by the Owner.

1.15 OWNER'S WORK & SCHEDULES:

- A. Owner shall be responsible for removing his equipment and materials from the contract area in sufficient time before the Contractor's work is to begin.
- B. Contractor shall assume that the site and building will be occupied by staff/students during the time of construction. Precautions concerning the safety of occupants shall be exercised at all times.
- C. The Owner reserves the right to award contracts for the work on the same project, or perform work with own personnel. Complete cooperation shall exist between all parties.
- D. Unavoidable shutdowns for purposes of extension of existing utilities (water, electric, etc.), or installation of temporary or permanent work shall be scheduled 48 hours in advance and at the convenience of the Owner during off-use hours.
- E. The Owner reserves the right to make emergency repairs, as required to keep equipment in operation without voiding the Contractor's guarantee bond, nor relieving the Contractor of his responsibilities during the bonding period.
- F. Since students and staff will be occupying the site and building, specific areas for Contractor parking, storage, building access, etc., must be coordinated with Owner. Contractor shall install snow type fences to secure these and construction areas.
- G. Hours of work by this Contractor/Sub-Contractor(s) shall occur between 7:30 A.M. to 4:00 P.M., Monday through Friday. The Owner will be responsible to have the building and site open and closed at times so noted.
- H. Should the Contractor desire times other than those listed above for interior work, the Contractor shall submit a written request to the Owner for consideration and approval forty-eight (48) hours in advance, in order to change the scheduling of their custodial staff and the opening/closing of the building(s)/sites(s). Should this special request be granted by the Owner, the Contractor shall accept and pay the additional costs incurred by the Owner at the rate of \$60 per opening and \$60 per closing of the building/site. This cost will be treated as a Change Order and deducted from the contract cost.

1.16 MISCELLANEOUS COSTS:

- A. The Prime Contractor shall secure and pay for the building permit from the Governing Building Authority, based on the work of all Contractors, along with all costs for inspections, plan review fees, approvals, etc. Sub-contractors shall secure same related permits as required by code. Upon completion, submit all occupancy permits, approvals, etc. It is the Prime Contractor's responsibility to pick up all costs and coordinate the Sub-permits, should the Sub-Contractors under his control fail to do so. All permits, including electrical/mechanical, shall be secured from the State of Michigan. Contact the Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes and Fire Safety, Plan Review Division, P.O. Box 30255, Lansing, MI 48909 (517-241-9328).
- B. The Prime Contractor shall retain the services of an Approved Third-Party Agency to perform all Special Inspections and Testing as required by the Governing Building Code, Governing Building Authority, or as called out in the construction documents. Notify Owner / Architect, immediately, of any failed tests or inspections and provide Owner with all written reports and test results at project completion. See "Special Inspections" in the Governing Building Code for requirements.
- C. Contractor, Sub-Contractor and Supplier shall include in his bid and contract price any Michigan sales and use taxes, currently imposed by legislative enactment.
- D. Electric the Electrical Contractor shall be responsible and include all power company's back-charge and utility company's work in the bid for all secondary and primary wiring, poles, transformers, meter, meter socket, etc. For either temporary or final service the Prime Contractor shall be responsible for all usage bills, until acceptance by the Owner, or substantial completion.
- E. Electrical Contractor to be responsible for labor and materials for final hook-up of all electrical equipment as supplied under Electrical Division, Mechanical Division, or Equipment Division as

furnished by Prime Contractor, unless noted otherwise in specific Divisions, such as overhead door operators. Included are kitchen appliances, lights, fans, motors, etc.

PART 2 PRODUCTS - NOT USED PART 3 EXECUTION - NOT USED

END OF SECTION

* SAMPLE*



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

CONTACT

Address Phone Wumber Contact Person Insurer 8: Insurer
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GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRODUCTS - COMPIOP AGG \$ 3,000,000 AUTOMOBILE LIMBILITY ANY ANY AUTO ALL OWNED AUTOS AUTOS WORKERS COMPENSATION AND GENERAL AGGREGATE \$ 3,000,000 EACH OCCURRENCE \$ AUTOS WORKERS COMPENSATION AND EMPLOYERS' LIABILITY WORKERS COMPENSATION AND EMPLOYERS' LIABILITY WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR PARTHER PEXECUTIVE OFFICE MEMBER EXCLUDED? (Mandatory in Mh) If yes, describe under person to the compensation of the compensation
POLICY PRODUCT LOC AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS HIRED AUTOS HIRED AUTOS DED RETENTIONS WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTHER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) I yes describe under DESCRIPTION OF OPERATIONS below LIST DESCRIPTION FLOOR N/A ELL DISEASE - POLICY LIMIT \$ SCHEDULED \$ COMBINED SINGLE LIMIT \$ \$ 1,000,000 BODILY INJURY (Per person) \$ PROPERTY DAMAGE \$ PROPERTY DAMAGE \$ AGGREGATE \$ AGGREGATE \$ WC STATU- TORY LIMITS ER- TORY LIMITS ER- TORY LIMITS ER- ELL EACH ACCIDENT \$ ELL DISEASE - EA EMPLOYEE \$ ELL DISEASE - POLICY LIMIT \$ SITE AMT STOTED TRONGIT — OF INSTALL
AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS AUTOS AUTOS HIRED AUTOS WON-OWNED AUTOS LIST# AUTOS WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY POPPIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION S Ploanter BUSINESS ALSK LIST# COMBINED SINGLE LIMIT \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY
ANY AUTO ALL OWNED AUTOS AUTOS HIRED AUTOS HIRED AUTOS WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICE/RIMEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below LIST ## ANY AUTO SCHEDULED AUTOS SCHEDULED AUTOS SCHEDULED AUTOS SEDDILY INJURY (Per person) SPROPERTY DAMAGE SPROPERTY DAM
ALL OWNED AUTOS HIRED AUTOS HIRED AUTOS HIRED AUTOS S EACH OCCURENCE \$ AGGREGATE \$ WC STATU- OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below LIST LIST BODILY INJURY (Per accident) \$ EACH OCCURENCE \$ AGGREGATE \$ WC STATU- TORY LIMITS ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ LIST Transit— or install
AUTOS HIREDAUTOS HIREDAUTOS HIREDAUTOS HIREDAUTOS HIREDAUTOS HIREDAUTOS UMBRELLA LIAB OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION \$ WCSTATU- TORY LIMITS ANY PROPRIETOR/PARTINER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (MANdatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below LIST BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ EACH OCCURRENCE \$ AGGREGATE \$ WCSTATU- TORY LIMITS EL. EACH ACCIDENT E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE \$ ITCANSIT — STOTED TORY LIMIT \$ SITE AIM — STOTED TORY LIMIT \$ LIST ## LIST ## LIST ## TORY LIMIT \$ LIST ## L
HIRED AUTOS UMBRELLA LIAB OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION\$ WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICE/RMEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below LIST LIST FL. DISEASE - POLICY LIMIT SITE AIM TIGATS IT — STOTED TIGATS IT — OT INSTALL
UMBRELLA LIAB OCCUR EXCESS LIAB OCCUR CLAIMS-MADE DED RETENTION\$ WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below LIST LIST EACH OCCURRENCE \$ AGGREGATE \$ WC STATU- TORY LIMITS ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$ SHE AMT — STOTED BUSINESS AISK LIST #
EXCESS LIAB CLAIMS-MADE DED RETENTION\$ WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below LIST ## LIST ## EL. DISEASE - POLICY LIMIT \$ SHE AMT STORED BUSINESS AISK LIST ## TORYLIMITS ER E.L. DISEASE - POLICY LIMIT \$ SHE AMT STORED TRANSIT — OF INSTALL
DED RETENTIONS WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below LIST # LIST # AGGREGATE \$ WC STATU- OTH- TORY LIMITS ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$ TRANSIT — STOTED TRANSIT — OT INSTALL
WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below List # WC STATU- TORY LIMITS ER * E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$ Site Amt — Stored Transit — or install
ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below List # E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$ Site Amt — Stored Transit — or install
OFFICERMEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below LIST # Site Amt — Stored Transit — or install
Uses describe under DESCRIPTION OF OPERATIONS below E.L. DISEASE - POLICY LIMIT \$ E.L. DISEASE - POLICY LIMIT \$ Site Amt — Stored Transit — or install
Enstallation Floater Business Risk List # Site Amt — stored Transit — or install
Business Aisk List # Transit - or install
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
Owner + Architect as additional insured with respect to
general liability.
1 (odd any allochuseals)
(add any attachments)
-> List actual names (and any arrachineris)
CERTIFICATE HOLDER CANCELLATION
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE
THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN

ACORD 25 (2010/05)

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Project	Name
Client	

Type on contractor's letterhead with complete address, phone numbers, federal and state ID#

СТТ	ED	\triangle E	1 \ \ \ \ \	DD	Δ NTV

LETTER OF WARRANTY		
	Re:	List here Owner's name
		and project description
		as listed on Architect's
		Project Manual
Date:		
We hereby warrant that the work, described as	nents of those specificate which may prove to be or replacement because or or date of final paymen	tions. We agree to repair or defective in workmanship or e of our defective work, within
f we fail to commence to comply with the above paragraph withing o do so or fail to pursue such compliance with diligence, we, journally to have the defects repaired and made good at our so charges for it together with interest at the maximum rate permitted obligations, and if the Owner brings an action to enforce this architect's, attorneys and staff fees incurred in connection there	intly and severally, do he le expense, and we will d by law upon demand. I warranty, we agree to	ereby authorize the Owner to honor and pay the costs and f we fail to fulfill the preceding
This guarantee does not limit the requirements for liability and Statute of Limitations, or equipment and manufactured items, w		
	Signed	
	Printed Name / Title	

List bonding company, address, phone number, as well as the local bonding agent with same information.

State of Michigan

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103

Monroe County

Official Road Builder and Commercial Prevailing Wage Rates for State Funded Projects

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

Page 1 of 49

Classification Name Description		Last Updated	Hourly	Time and a Half	Double Time	Provision
Operator (0-6 months)			~~~~~	~~~~~	~~~~~	~~~~~~~
	~~~~~~~~~~~~~~~~~~~~~	12/14/2023	~~~~~	~~~~~	~~~~~	~~~~~~~~
Toloudia			\$38.27	\$52.09	\$65.91	нннххххрү
	Apprentice Rates:					
	Lineman (6th - 6 months)		\$35.61	\$49.90	\$64.18	
	Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
	Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
	Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
				00400	\$43.86	
	Lineman (2nd - 6 months)		\$25.45	\$34.66	φ43.00	
	Lineman (2nd - 6 months) Lineman (1st - 6 months)		\$25.45 \$22.91	\$34.66 \$30.85	\$38.78	
.~~~~~~~~~~~	,		\$22.91		\$38.78	
	Lineman (1st - 6 months)		\$22.91	\$30.85	\$38.78	
	Lineman (1st - 6 months)		\$22.91	\$30.85	\$38.78	
	Lineman (1st - 6 months)		\$22.91	\$30.85	\$38.78	
	Lineman (1st - 6 months)  Apprentice Rates:		\$22.91	\$30.85 	\$38.78	
	Lineman (1st - 6 months)  Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months)		\$22.91 	\$30.85 	\$38.78 	
	Apprentice Rates: Lineman (5th - 6 months) Lineman (5th - 6 months) Lineman (4th - 6 months)		\$22.91 	\$30.85 \$55.96 \$49.90 \$46.07	\$38.78 	
A Operator (7-12 months)  IBEW 876 & IBEW 17 - Teledata	Lineman (1st - 6 months)  Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months)		\$22.91 \$40.95 \$35.61 \$33.06 \$30.53	\$30.85 \$55.96 \$49.90 \$46.07 \$42.27	\$38.78 \$70.96 \$64.18 \$59.08 \$54.02	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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### Official Road Builder and Commercial Prevailing Wage Rates for State Funded Projects

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

Page 2 of 49

Classification  Name Description		Last Updated	Hourly	Time and a Half	Double Time	Provision
Operator (over 1 yr)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-~~~~	~~~~	~~~~~	~~~~	~~~~~~~
	~~~~~~~~~~~~~~~~~~~~~~~~	12/14/2023	~~~~~	~~~~~	~~~~~	~~~~~~~
Toloudia			\$45.81	\$62.97	\$80.12	H H H X X X X D Y
	Apprentice Rates:					
	Lineman (6th - 6 months)		\$35.61	\$49.90	\$64.18	
	Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
	Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
	Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
	Lineman (2nd - 6 months)		\$25.45	\$34.66	\$43.86	
	(
	Lineman (1st - 6 months)		\$22.91	\$30.85	\$38.78	
.~~~~~~~~~~~~~~~~			\$22.91 	\$30.85	\$38.78	
.~~~~~~~~~~~~~~~~~~ IBEW 876 & IBEW 17 -	Lineman (1st - 6 months)					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
.~~~~~~~~~~~~~~~~~~ IBEW 876 & IBEW 17 -	Lineman (1st - 6 months)		\$22.91	\$30.85 		
.~~~~~~~~~~~~~~~~~~ IBEW 876 & IBEW 17 -	Lineman (1st - 6 months)					
3 Operator (0-6 months) ENERGY 876 & IBEW 17 - Teledata	Lineman (1st - 6 months) Apprentice Rates: Lineman (6th - 6 months)		\$34.25	\$46.29	\$58.33	
.~~~~~~~~~~~~~~~~~ IBEW 876 & IBEW 17 -	Lineman (1st - 6 months) Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months)		\$34.25 \$35.61	\$46.29 \$49.90	\$58.33 \$64.18	
.~~~~~~~~~~~~~~~~~~ IBEW 876 & IBEW 17 -	Lineman (1st - 6 months) Apprentice Rates: Lineman (6th - 6 months)		\$34.25 \$35.61 \$33.06	\$46.29 \$49.90 \$46.07	\$58.33 \$64.18 \$59.08	
	Lineman (1st - 6 months) Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months) Lineman (4th - 6 months)		\$34.25 \$35.61 \$33.06 \$30.53	\$46.29 \$49.90 \$46.07 \$42.27	\$58.33 \$64.18 \$59.08 \$54.02	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

Official Road Builder and Commercial Prevailing Wage Rates for State Funded Projects

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
3 Operator (over 6 months	~~~~~~~~~~~	~~~~~	~~~~~	.~~~~	~~~~	~~~~~~
IBEW 876 & IBEW 17 - Teledata	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12/14/2023	~~~~~	.~~~~	.~~~~	~~~~~~~
			\$39.35	\$53.65	\$67.94	HHHXXXXDY
	Apprentice Rates:		# 05.04	\$40.00	ФС 4 4 O	
	Lineman (6th - 6 months)		\$35.61	\$49.90	\$64.18	
	Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
	Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
	Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
	Lineman (2nd - 6 months)		\$25.45	\$34.66	\$43.86	
	1 : (4-4 C		\$22.91	\$30.85	\$38.78	
	Lineman (1st - 6 months)					
	Lineman (1st - 6 months)					
Boilermaker	~~~~~~~~~~~~		~~~~	-~~~		~~~~~~~
Boilermaker Books	` ,	3/28/2008	~~~~~	-~~~~	.~~~~	~~~~~~~~
BO85	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	.~~~~~	\$47.24	\$70.27	.~~~~	
Bollermaker Boss	~~~~~~~~~~~~	.~~~~~	~~~~~	-~~~~	.~~~~	~~~~~~~~
BO85	Apprentice Rates:	.~~~~~	~~~~~ ~~~~~ \$47.24	\$70.27	\$93.29	~~~~~~~~
Bollermaker Boss	Apprentice Rates: 1st 6 months	.~~~~~	\$47.24 \$30.47	\$70.27 \$45.11 \$46.24	\$93.29	~~~~~~~~
Bollermaker Boss	Apprentice Rates: 1st 6 months 2nd 6 months 3rd 6 months	.~~~~~	\$47.24 \$30.47 \$31.22 \$39.72	\$70.27 \$45.11 \$46.24 \$58.99	\$93.29 \$59.75 \$61.25 \$78.25	~~~~~~~~
Bollermaker Boss	Apprentice Rates: 1st 6 months 2nd 6 months 3rd 6 months 4th 6 months	.~~~~~	\$47.24 \$30.47 \$31.22 \$39.72 \$40.47	\$70.27 \$45.11 \$46.24 \$58.99 \$60.11	\$93.29 \$59.75 \$61.25 \$78.25 \$79.75	~~~~~~~~
BO85	Apprentice Rates: 1st 6 months 2nd 6 months 3rd 6 months 4th 6 months 5th 6 months	.~~~~~	\$47.24 \$30.47 \$31.22 \$39.72 \$40.47 \$41.22	\$70.27 \$45.11 \$46.24 \$58.99 \$60.11 \$61.24	\$93.29 \$59.75 \$61.25 \$78.25 \$79.75 \$81.25	~~~~~~~~
Boilermaker Books	Apprentice Rates: 1st 6 months 2nd 6 months 3rd 6 months 4th 6 months 5th 6 months 6th 6 months	.~~~~~	\$47.24 \$30.47 \$31.22 \$39.72 \$40.47 \$41.22 \$42.73	\$70.27 \$45.11 \$46.24 \$58.99 \$60.11 \$61.24 \$63.51	\$93.29 \$59.75 \$61.25 \$78.25 \$79.75 \$81.25 \$84.27	~~~~~~~~
~~~~~~~~~ Boilermaker	Apprentice Rates: 1st 6 months 2nd 6 months 3rd 6 months 4th 6 months 5th 6 months	.~~~~~	\$47.24 \$30.47 \$31.22 \$39.72 \$40.47 \$41.22	\$70.27 \$45.11 \$46.24 \$58.99 \$60.11 \$61.24	\$93.29 \$59.75 \$61.25 \$78.25 \$79.75 \$81.25	~~~~~~~~

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification  Name Description		Last Updated	Hourly	Time and a Half	Double Time	Overtime Provision
 Bricklayer	.~~~~~~~~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
BR2-B	.~~~~~~~~~~~~~~~~~	12/3/2021	~~~~~	~~~~~	~~~~~	~~~~~~~~~
Bricklayer			\$61.93	\$92.90	\$123.86	ннннннру
	Apprentice Rates:					
	1st Period		\$40.60	\$60.90	\$81.20	
	2nd Period		\$42.47	\$63.71	\$84.94	
	3rd Period		\$44.33	\$66.49	\$88.66	
	4th Period		\$46.19	\$69.29	\$92.38	
	5th Period		\$48.05	\$72.07	\$96.10	
	6th Period		\$49.91	\$74.87	\$99.82	
	7th Period		\$51.78	\$77.67	\$103.56	
	8th Period		\$53.64	\$80.46	\$107.28	
Cable spicer or COE foreman	~~~~~~	-~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
IBEW 876 & IBEW 17 -	.~~~~~~~~~~~~~~~~	1/10/2024	~~~~~		~~~~~	~~~~~~~~
Teledata			\$42.53	\$58.24	\$73.94	нннххххрү
	Apprentice Rates:					
	Lineman (6th - 6 months)		\$35.61	\$49.90	\$64.18	
	Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
	Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
	Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
			\$25.45	\$34.66	\$43.86	
	Lineman (2nd - 6 months)		<b>+</b>			

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification  Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~		~~~~~~	~~~~~	 ~~~~~~	
Cable spicer, Central Offic	e Employee					
IBEW 876 & IBEW 17 - Teledata	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1/10/2024	~~~~~	~~~~~	~~~~~	~~~~~~~~
Tolouata			\$40.71	\$55.61	\$70.51	H H H X X X X D Y
	Apprentice Rates:					
	Lineman (6th - 6 months)		\$35.61	\$49.90	\$64.18	
	Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
	Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
	Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
	Lineman (2nd - 6 months)		\$25.45	\$34.66	\$43.86	
.~~~~~~~	Lineman (1st - 6 months)		\$22.91	\$30.85	\$38.78	~~~~~~~~~~~~~~
CA1045 Carpet and Resilient Floor L prefabricated formica & par	~~~~~~~~~~	8/4/2023	\$22.91 	~~~~~	······································	XXHHHHHDN
CA1045 Carpet and Resilient Floor L prefabricated formica & par	ayer, (does not include installation of	8/4/2023	~~~~~	~~~~~	······································	XXHHHHHDN
CA1045 Carpet and Resilient Floor L prefabricated formica & par	ayer, (does not include installation of rquet flooring which is to be paid carpe	8/4/2023	~~~~~	~~~~~	······································	X X H H H H H D N
CA1045 Carpet and Resilient Floor L prefabricated formica & par	ayer, (does not include installation of quet flooring which is to be paid carpe	8/4/2023	\$59.04	\$82.42	\$105.80	XXHHHHHDN
CA1045 Carpet and Resilient Floor L prefabricated formica & par	ayer, (does not include installation of equet flooring which is to be paid carped. Apprentice Rates: 1st 6 months	8/4/2023	\$59.04 \$30.46	\$82.42	\$105.80	X X H H H H H D N
CA1045 Carpet and Resilient Floor L prefabricated formica & par	Apprentice Rates: 1st 6 months 2nd 6 months	8/4/2023	\$59.04 \$30.46 \$34.04	\$82.42 \$41.20 \$45.73	\$105.80 \$51.93 \$57.44	X X H H H H H D N
CA1045 Carpet and Resilient Floor L prefabricated formica & par	.ayer, (does not include installation of quet flooring which is to be paid carpe Apprentice Rates: 1st 6 months 2nd 6 months 3rd 6 months	8/4/2023	\$59.04 \$30.46 \$34.04 \$36.52	\$82.42 \$41.20 \$45.73 \$50.29	\$105.80 \$51.93 \$57.44 \$64.05	X X H H H H H D N
CA1045 Carpet and Resilient Floor L prefabricated formica & par	Apprentice Rates: 1st 6 months 2nd 6 months 3rd 6 months 4th 6 months	8/4/2023	\$59.04 \$30.46 \$34.04 \$36.52 \$39.02	\$82.42 \$41.20 \$45.73 \$50.29 \$54.04	\$105.80 \$51.93 \$57.44 \$64.05 \$69.05	X X H H H H H D N
CA1045 Carpet and Resilient Floor L	Apprentice Rates: 1st 6 months 2nd 6 months 4th 6 months 5th 6 months	8/4/2023	\$59.04 \$30.46 \$34.04 \$36.52 \$39.02 \$41.52	\$82.42 \$41.20 \$45.73 \$50.29 \$54.04 \$57.75	\$105.80 \$51.93 \$57.44 \$64.05 \$69.05 \$74.05	X X H H H H H D N

Official Request #: 624

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Project Description: Kitchen Alterations & Related Work

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

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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<u>Classifica</u> Iame De	ation escription		Last Updated	Straight Hourly	Time and a Half	Double Time	Provision
======= CA687Z1	4 10 - Noved May Cab	de de l'estate de la descripción de la descripción de la descripción de la dela dela dela dela dela dela del	8/4/2023	#65.00	 	£404.90	
arpenter vorked per		double time due when over 12	nours	\$65.99	\$83.94	\$101.89	XXHXXHHDY
		Apprentice Rates:					
		1st year		\$40.39	\$50.27	\$60.14	
		3rd 6 months		\$43.23	\$54.00	\$64.77	
		4th 6 months		\$46.08	\$57.75	\$69.42	
		5th 6 months		\$48.92	\$61.49	\$74.05	
		6th 6 months		\$51.78	\$65.25	\$78.71	
		7th 6 months		\$54.61	\$68.97	\$83.33	
		8th 6 months		\$57.47	\$72.73	\$87.99	
commen Saturday	, ,						
	I- 10s allowed Monday-S orked per day	aturday; double time due when	8/4/2023 over	\$65.99	\$83.94	\$101.89	X X H X H H H D Y
		Apprentice Rates:					
		1st 6 months		\$40.39	\$50.27	\$60.14	
		2nd 6 months		\$46.08	\$57.75	\$69.42	
		3rd 6 months		\$51.78	\$65.25	\$78.71	
		4th 6 months		\$57.47	\$72.73	\$87.99	
commen Saturday							
ell Tower	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	~~~~~	~~~~~	~~~~~	~~~~	~~~~~~
~~~~~~ BEW 876 & IBE reledata	~~~~~~~~~ EW 17 -	~~~~~~~~~~~~~~~	12/14/2023	~~~~~	~~~~~	~~~~~	~~~~~~~
Cicuata				\$38.78	\$52.83	\$66.87	H $H$ $H$ $X$ $X$ $X$ $X$ $X$ $X$ $Y$
		Apprentice Rates:					
		Apprentice Rates: Lineman (6th - 6 months)		\$35.61	\$49.90	\$64.18	
				\$35.61 \$33.06	\$49.90 \$46.07	\$64.18 \$59.08	
		Lineman (6th - 6 months)					
		Lineman (6th - 6 months) Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
		Lineman (6th - 6 months)  Lineman (5th - 6 months)  Lineman (4th - 6 months)		\$33.06 \$30.53	\$46.07 \$42.27	\$59.08 \$54.02	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Name	ssification Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
=====							
~~~~	~~~~~~~ t Mason	~~~~~~~	~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
BR2-CM	~~~~~~~~	.~~~~~~~~~~~~~~~~~~~	12/3/2021	~~~~~	~~~~~		~~~~~~~
Cement	t Mason			\$58.90	\$84.12	\$109.33	ххнннннрү
		Apprentice Rates:					
		1st Period		\$39.26	\$54.86	\$70.45	
		2nd Period		\$41.72	\$58.55	\$75.37	
		3rd Period		\$44.22	\$62.30	\$80.37	
		4th Period		\$46.73	\$66.06	\$85.39	
		5th Period		\$49.19	\$69.75	\$90.31	
		6th Period		\$51.71	\$73.53	\$95.35	
 PL886-CN			7/28/2023				
	t Mason		1/20/2020	\$57.53	\$85.95	\$114.36	HHDHHDDDY
		Apprentice Rates:					
		1st year		\$43.16	\$54.20	\$65.23	
		2nd year		\$46.31	\$58.92	\$71.53	
		3rd year		\$49.47	\$63.66	\$77.85	
	nment make up day a ns allowed M-Th, Friday r						
		~~~~~~	~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
		.~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
IBEW 876 Roadway	6 & IBEW 17 -		12/14/2023	\$67.89	\$08.24	¢120 50	ннннннрү

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification  Name Description		Last Updated	Hourly	Time and a Half	Double Time	Overtime Provision
 Diver	~~~~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
CA 687 D	~~~~~~~~~~	8/3/2023	~~~~~	~~~~~	~~~~~	~~~~~~~
Diver 4-10s allowed M-Sat; double t per day	ime due when over 12 hours	worked	\$76.40	\$98.48	\$120.55	X X H X X H H D Y
	Apprentice Rates:					
	5th 6 mo		\$25.13			
	4th 6 mo		\$46.08	\$57.75	\$69.42	
	3rd 60 mo		\$43.23	\$54.00	\$64.77	
	1st/2nd 6 mo		\$40.39	\$50.27	\$60.14	
comment make up day allowed Saturday						
one of the state o	~~~~~~~~~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
CE514-DF Drywall Finishers	~~~~~~~~~~~~~	12/9/2021	\$51.86	\$67.66	\$83.46	 ннннннн р ү
	Apprentice Rates:					
	1st period		\$39.22	\$48.70	\$58.18	
	2nd period		\$40.80	\$51.07	\$61.34	
	3rd period		\$43.96	\$55.81	\$67.66	
	4th period		\$48.70	\$62.92	\$77.14	
PL886-DR		11/19/2021				
Drywaller			\$49.78	\$63.89	\$78.00	X X D X X X D D Y
	Apprentice Rates:				_	
	1st 6 months		\$33.49			
	2nd 6 months		\$34.90	\$44.07	\$53.24	
	3rd 6 months		\$36.31	\$46.18	\$56.06	
	4th 6 months		\$37.72	\$48.30	\$58.88	
	5th 6 months		\$39.14	\$50.43	\$61.72	
	6th 6 months		\$40.55	\$52.54	\$64.54	
	7th 6 months		\$41.96	\$54.66	\$67.36	
	8th 6 months		\$43.37	\$56.78	\$70.18	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
-=====================================		8/25/2016				
Drywall Taper Four 10s allowed Mo	onday-Thursday		\$45.91	\$59.74	\$73.56	HHDHDDDDY
	Apprentice Rates:					
	First 3 months		\$32.08	\$38.99	\$45.90	
	Second 3 months		\$34.85	\$43.14	\$51.44	
	Second 6 months		\$37.62	\$47.30	\$56.98	
	Third 6 months		\$40.38	\$51.44	\$62.50	
	4th 6 months		\$41.76	\$53.51	\$65.26	
comment make up day allowed Friday make-up day for bad weathe						
lectrician	~~~~~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
EC-8		8/9/2023	<b>0.40.40</b>	<b>\$00.00</b>	<b>474.00</b>	V II II II II II B V
ourneyman - Voice, Data, & Video			\$46.48	\$60.39	\$74.29	хннннннрү
	Apprentice Rates:					
	1st Pariod 0-740 hours		\$21.05	\$20 AN	\$37.25	
	1st Period 0-749 hours		\$21.95	\$29.60	\$37.25	
	2nd Period 750-1499 hours		\$25.40	\$34.44	\$43.48	
	2nd Period 750-1499 hours 3rd Period 1500-2249 hours		\$25.40 \$38.72	\$34.44 \$49.15	\$43.48 \$59.58	
	2nd Period 750-1499 hours 3rd Period 1500-2249 hours 4th Period 2250-2999 hours		\$25.40 \$38.72 \$40.27	\$34.44 \$49.15 \$51.40	\$43.48 \$59.58 \$62.52	
	2nd Period 750-1499 hours 3rd Period 1500-2249 hours 4th Period 2250-2999 hours 5th Period 3000-3749 hours		\$25.40 \$38.72 \$40.27 \$41.82	\$34.44 \$49.15 \$51.40 \$53.64	\$43.48 \$59.58 \$62.52 \$65.46	
	2nd Period 750-1499 hours 3rd Period 1500-2249 hours 4th Period 2250-2999 hours		\$25.40 \$38.72 \$40.27	\$34.44 \$49.15 \$51.40	\$43.48 \$59.58 \$62.52	
	2nd Period 750-1499 hours 3rd Period 1500-2249 hours 4th Period 2250-2999 hours 5th Period 3000-3749 hours 6th Period 3750-4499 hours Apprentice Rates:		\$25.40 \$38.72 \$40.27 \$41.82	\$34.44 \$49.15 \$51.40 \$53.64	\$43.48 \$59.58 \$62.52 \$65.46	
	2nd Period 750-1499 hours 3rd Period 1500-2249 hours 4th Period 2250-2999 hours 5th Period 3000-3749 hours 6th Period 3750-4499 hours Apprentice Rates: 1st Period 0-749 hours		\$25.40 \$38.72 \$40.27 \$41.82	\$34.44 \$49.15 \$51.40 \$53.64	\$43.48 \$59.58 \$62.52 \$65.46	
	2nd Period 750-1499 hours 3rd Period 1500-2249 hours 4th Period 2250-2999 hours 5th Period 3000-3749 hours 6th Period 3750-4499 hours Apprentice Rates:		\$25.40 \$38.72 \$40.27 \$41.82 \$43.38	\$34.44 \$49.15 \$51.40 \$53.64 \$55.89	\$43.48 \$59.58 \$62.52 \$65.46 \$68.41	
	2nd Period 750-1499 hours 3rd Period 1500-2249 hours 4th Period 2250-2999 hours 5th Period 3000-3749 hours 6th Period 3750-4499 hours Apprentice Rates: 1st Period 0-749 hours		\$25.40 \$38.72 \$40.27 \$41.82 \$43.38	\$34.44 \$49.15 \$51.40 \$53.64 \$55.89 \$29.60 \$34.44	\$43.48 \$59.58 \$62.52 \$65.46 \$68.41 \$37.25	
	2nd Period 750-1499 hours 3rd Period 1500-2249 hours 4th Period 2250-2999 hours 5th Period 3000-3749 hours 6th Period 3750-4499 hours Apprentice Rates: 1st Period 0-749 hours 2nd Period 750-1499 hours		\$25.40 \$38.72 \$40.27 \$41.82 \$43.38 \$21.95 \$25.40	\$34.44 \$49.15 \$51.40 \$53.64 \$55.89 \$29.60 \$34.44	\$43.48 \$59.58 \$62.52 \$65.46 \$68.41 \$37.25 \$43.48	
	2nd Period 750-1499 hours 3rd Period 1500-2249 hours 4th Period 2250-2999 hours 5th Period 3000-3749 hours 6th Period 3750-4499 hours Apprentice Rates: 1st Period 0-749 hours 2nd Period 750-1499 hours 3rd Period 1500-2249 hours		\$25.40 \$38.72 \$40.27 \$41.82 \$43.38 \$21.95 \$25.40 \$38.72	\$34.44 \$49.15 \$51.40 \$53.64 \$55.89 \$29.60 \$34.44 \$49.15	\$43.48 \$59.58 \$62.52 \$65.46 \$68.41 \$37.25 \$43.48 \$59.58	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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<u>Cla</u>	<u>ssification</u>		Last	Straight	Time and	Double	Overtime
Name	Description		Updated	Hourly	a Half	Time	Provision
		Apprentice Rates:					
		1st Period 0-749 hours		\$21.95	\$29.60	\$37.25	
		2nd Period 750-1499 hours		\$25.40	\$34.44	\$43.48	
		3rd Period 1500-2249 hours		\$38.72	\$49.15	\$59.58	
		4th Period 2250-2999 hours		\$40.27	\$51.40	\$62.52	
		5th Period 3000-3749 hours		\$41.82	\$53.64	\$65.46	
		6th Period 3750-4499 hours		\$43.38	\$55.89	\$68.41	
		Apprentice Rates:					
		1st Period 0-749 hours		\$21.95	\$29.60	\$37.25	
		2nd Period 750-1499 hours		\$25.40	\$34.44	\$43.48	
		3rd Period 1500-2249 hours		\$38.72	\$49.15	\$59.58	
		4th Period 2250-2999 hours		\$40.27	\$51.40	\$62.52	
		5th Period 3000-3749 hours		\$41.82	\$53.64	\$65.46	
		6th Period 3750-4499 hours		\$43.38	\$55.89	\$68.41	
			40/0/004				
	Wireman 4 consecutive 10 hount time rate of pay Mon-Fri.	r days may be worked at the	12/3/2021 e	\$66.44	\$99.66	\$132.88	H $H$ $H$ $X$ $H$ $H$ $H$ $D$ $Y$
		Apprentice Rates:					
		1st 0-900 Hours		\$27.48	\$41.22	\$54.96	
		2nd 901-1800 Hours		\$32.32	\$48.49	\$64.64	
		3rd 1801-3300 Hours		\$39.68	\$59.52	\$79.36	
		4th 3301-4800 Hours		\$45.03	\$67.55	\$90.06	
		5th 4801-6300 Hours		\$50.38	\$75.58	\$100.76	
		6th 6301-8000 Hours		\$55.73	\$83.60	\$111.46	
	mment make up day allowed y day except Sunday when work can	celled due to weather condition	ns				
EC-8-TC			12/3/2021				
Teleda	ita Cable Puller 4-10s may be w iy thru Friday.	orked any 4 consecutive da	ys	\$17.07	\$25.61	\$34.14	H H H H H H D Y
		Apprentice Rates:					
		0-499 hours		\$12.36	\$18.54	\$24.72	
		500-1000 hours		\$14.57	\$21.85	\$29.14	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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3/6/2024 Issue Date: Contract must be awarded by: 6/4/2024

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ter at						
sification		Last	Straight		Double	Overtime
Description	.======	Updated	Hourly ======	a Half	Time 	Provision ========
make up day allowed	,					
Constructor	~~~~~~~~~~	~~~~~	~~~~~	-~~~~	~~~~~	~~~~~~
.~~~~~~~~~	~~~~~~~~~~	2/4/2015	~~~~~	~~~~	~~~~~	~~~~~~~
Constructor Mechanic			\$77.53		\$122.30	$D \ D \ D \ D \ D \ D \ D \ D \ Y$
	Apprentice Rates:					
	1st year		\$55.41		\$80.03	
	2nd year		\$60.33		\$89.43	
	3rd year		\$62.79		\$94.13	
	4th year		\$67.71		\$103.53	
		~~~~~	~~~~~	-~~~~	~~~~~	~~~~~~
.~~~~~~~~~~~~~~~~~	•	12/14/2023	~~~~~	-~~~~	~~~~~	~~~~~~~
			# 20.70	ሰ ደር በር	ተ ርር 07	
	Annrentice Rates:		\$38.78	\$ 52.83	\$00.87	HHHXXXXXDY
			\$35.61	\$49.90	\$64.18	
	Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
	Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
	Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
	Lineman (2nd - 6 months)		\$25.45	\$34.66	\$43.86	
	Lineman (2nd - 6 months) Lineman (1st - 6 months)		\$25.45 \$22.91	\$34.66 \$30.85	\$43.86 \$38.78	
 ptic Splicer						
otic Splicer		12/14/2023				~~~~~~~~~~
	make up day allowed Constructor Constructor Mechanic ment s allowed M-Th	Constructor Constructor Mechanic Apprentice Rates: 1st year 2nd year 3rd year 4th year Ment a allowed M-Th Cent Operator (line truck & man lifts) & IBEW 17 - Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months)	Constructor 2/4/2015 Constructor Mechanic Apprentice Rates: 1st year 2nd year 3rd year 4th year ment s allowed M-Th Pent Operator (line truck & man lifts) & IBEW 17 - 12/14/2023 Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months)	### Constructor Constructor 2/4/2015 \$77.53	### Constructor Mechanic \$77.53 Constructor Mechanic \$77.53	### Constructor Constructor Section Sec

Official Request #: 624

Official Rate Schedule

Requestor: Monroe Public Schools Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County

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

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Name	sification Description	.======	Last Updated	Hourly	Time and a Half	Double Time	Provision
 Forema		~~~~~~~~~~~~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
~~~~ IBEW 876 Roadway	i & IBEW 17 -	~~~~~~~~~~~~~~~~~~	12/14/2023	\$75.47	\$109.61	\$143.74	
Teledata	8 BEW 17 -		12/14/2023		<b></b>		
In char	ge of three man crew	Appropriate Dates		\$40.71	\$55.61	\$70.51	HHHXXXXXDY
		Apprentice Rates: Lineman (6th - 6 months)		\$35.61	\$49.90	\$64.18	
		Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
		Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
		Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
		Lineman (2nd - 6 months)		\$25.45	\$34.66	\$43.86	
		Lineman (1st - 6 months)		\$22.91	\$30.85	\$38.78	
		Apprentice Rates:					
		Lineman (6th - 6 months)		\$35.61	\$49.90	\$64.18	
		Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
		Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
		Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
		Lineman (2nd - 6 months)		\$25.45	\$34.66	\$43.86	
		Lineman (1st - 6 months)		\$22.91	\$30.85	\$38.78	

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification  Name Description		Last Updated	Hourly	Time and a Half	Double Time	Provision
		~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12/9/2021	~~~~~	~~~~~	~~~~~	~~~~~~~~
Glazier If 4 10 hour day workv consecutive, M-F.	week is scheduled, four 10s must be		\$53.55	\$70.10	\$86.65	ннннннру
	Apprentice Rates:					
	1st 6 months		\$37.00	\$45.27	\$53.55	
	2nd 6 months		\$37.75	\$46.40	\$55.05	
	3rd 6 months		\$41.97	\$52.73	\$63.49	
	4th 6 months		\$43.62	\$55.21	\$66.79	
	5th 6 months		\$45.27	\$57.68	\$70.09	
	6th 6 months		\$46.93	\$60.17	\$73.41	
	7th 6 months		\$48.59	\$62.66	\$76.73	
	8th 6 months		\$51.89	\$67.61	\$83.33	
		~~~~~ 6/2/2016	~~~~~	~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
			**************************************	\$36.51	~~~~~	X X X H H H H H N
AS25S Spray Insulation		6/2/2016				
AS25S Spray Insulation		6/2/2016				
AS25S Spray Insulation	Apprentice Rates:	6/2/2016	\$63.06	\$94.32	\$125.58	
AS25S Spray Insulation	Apprentice Rates: 1st - 2nd period	6/2/2016	\$63.06 \$36.62	\$94.32 \$53.76	\$125.58 \$70.90	
AS25S Spray Insulation	Apprentice Rates: 1st - 2nd period 3rd period	6/2/2016	\$63.06 \$36.62 \$39.69	\$94.32 \$53.76 \$58.36	\$125.58 \$70.90 \$77.03	
AS25S Spray Insulation	Apprentice Rates: 1st - 2nd period 3rd period 4th period	6/2/2016	\$63.06 \$36.62 \$39.69 \$41.36	\$94.32 \$53.76 \$58.36 \$60.86	\$125.58 \$70.90 \$77.03 \$80.37	
AS25S Spray Insulation	Apprentice Rates: 1st - 2nd period 3rd period 4th period 5th period	6/2/2016	\$63.06 \$36.62 \$39.69 \$41.36 \$43.03	\$94.32 \$53.76 \$58.36 \$60.86 \$63.37	\$125.58 \$70.90 \$77.03 \$80.37 \$83.71	
AS25S Spray Insulation	Apprentice Rates: 1st - 2nd period 3rd period 4th period 5th period 6th period	6/2/2016	\$63.06 \$36.62 \$39.69 \$41.36 \$43.03 \$44.69	\$94.32 \$53.76 \$58.36 \$60.86 \$63.37 \$65.86	\$125.58 \$70.90 \$77.03 \$80.37 \$83.71 \$87.03	
AS25S Spray Insulation	Apprentice Rates: 1st - 2nd period 3rd period 4th period 5th period 6th period 7th period	6/2/2016	\$63.06 \$36.62 \$39.69 \$41.36 \$43.03 \$44.69 \$51.37	\$94.32 \$53.76 \$58.36 \$60.86 \$63.37 \$65.86 \$75.44	\$125.58 \$70.90 \$77.03 \$80.37 \$83.71 \$87.03 \$107.84	
AS25S Spray Insulation	Apprentice Rates: 1st - 2nd period 3rd period 4th period 5th period 6th period 7th period 8th period	6/2/2016	\$63.06 \$36.62 \$39.69 \$41.36 \$43.03 \$44.69 \$51.37 \$53.04	\$94.32 \$53.76 \$58.36 \$60.86 \$63.37 \$65.86 \$75.44 \$77.95	\$125.58 \$70.90 \$77.03 \$80.37 \$83.71 \$87.03 \$107.84 \$102.84	
AS25S Spray Insulation	Apprentice Rates: 1st - 2nd period 3rd period 4th period 5th period 6th period 7th period	6/2/2016	\$63.06 \$36.62 \$39.69 \$41.36 \$43.03 \$44.69 \$51.37	\$94.32 \$53.76 \$58.36 \$60.86 \$63.37 \$65.86 \$75.44 \$77.95 \$80.46	\$125.58 \$70.90 \$77.03 \$80.37 \$83.71 \$87.03 \$107.84	

Official Request #: 624

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Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Name	ification Description		Last Updated	Hourly	Time and a Half	Double Time	Overtime Provision
~~~~	- Repairman	~~~~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
	.~~~~~~~~~~ & IBEW 17 -	~~~~~~~~~	12/14/2023	~~~~~	~~~~~	.~~~~	~~~~~~
Teledata				\$38.78	\$52.83	\$66.87	H $H$ $H$ $X$ $X$ $X$ $X$ $D$ $Y$
		Apprentice Rates:					
		Lineman (6th - 6 months)		\$35.61	\$49.90	\$64.18	
		Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
		Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
		Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
		Lineman (2nd - 6 months)		\$25.45	\$34.66	\$43.86	
		Lineman (1st - 6 months)		\$22.91	\$30.85	\$38.78	
		~~~~~~~~		~~~~~	~~~~~		~~~~~~
~~~~~ R-55		~~~~~~~~~	10/7/2014	~~~~~	~~~~~	~~~~~	~~~~~~~~
	ker Four tens allowed M-Th.			\$49.24	\$73.86	\$98.48	H $H$ $D$ $H$ $D$ $D$ $D$ $Y$
		Apprentice Rates:					
		1st year		\$25.04	\$37.56	\$50.08	
		2nd year		\$40.50	\$60.75	\$81.00	
		3rd year		\$43.42	\$65.13	\$86.84	
		4th year		\$46.33	\$69.50	\$92.66	
comr Frida	ment make up day allowed y for inclement weather						
R-55-MF			10/8/2015				
Metal Fe	ence & Guard Rail Four tens a	Illowed M-Th		\$39.87	\$59.81	\$79.74	H $H$ $D$ $H$ $H$ $H$ $H$ $D$ $Y$
		Apprentice Rates:					
		1st year		\$19.57	\$29.36	\$39.14	
		2nd year		\$33.87	\$50.81	\$67.74	
		3rd year		\$35.87	\$53.81	\$71.74	
		4th year		\$37.87	\$56.81	\$75.74	
comr Frida	ment make up day allowed by for inclement weather						

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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<u>Cla</u> Name	ssification Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
===== IR-55-PE			8/1/2013				
Pre-en	gineered Metal Building Four t	ens allowed M-Th		\$43.17	\$64.76	\$86.34	HHDHDDDDY
		Apprentice Rates:					
		1st year		\$21.55	\$32.33	\$43.10	
		2nd year		\$36.09	\$54.13	\$72.18	
		3rd year		\$38.45	\$57.67	\$76.90	
		4th year		\$40.81	\$61.21	\$81.62	
	mment make up day allowed day for inclement weather						
Journe	eyman Signal Technician	~~~~~~~~~~	~~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~~
~~~~~ IBEW 87		-~-~-	12/14/2023	~~~~~	~~~~~	~~~~~	~~~~~~~
Roadway	1			\$67.89	\$98.24	\$128.58	ннннннрү
 ~~~~~ Journe	yman Specialist				~~~~~	~~~~~	~~~~~~
IBEW 87	6 & IBEW 17 -	~~~~~~~~~~~~	12/14/2023	\$76.98	\$111.87	\$146.76	 н н н н н н н D Y
			-~~~~~		~~~~~	······································	~~~~~
~~~~	-~~~~~~~~~	-~~~~~~	.~~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
Roadway	6 & IBEW 17 - /		12/14/2023	\$61.86	\$89.19	\$116.52	ннннннрү

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

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Issue Date: 3/6/2024

Contract must be awarded by: 6/4/2024

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	fication Descrip	ition ========		Last Updated		Time and a Half	Double Time	Overtime Provision
~~~~~ aborer	~~~~	~~~~~~	.~~~~~~~~	~~~~~~~~	~~~~~	~~~~~	.~~~~	~~~~~~
~~~~~ _499-M-A	~~~~	~~~~~~	.~~~~~~~	8/15/2023	~~~~~	~~~~~	.~~~~	~~~~~~~
		borer, Carpenter landler. Demoliti	Tender, Concrete La	aborer, Concrete	\$49.48	\$66.40	\$83.41	HHHXHHHDY
			Apprentice R	ates:				
			0-1,000 work	hours	\$39.67	\$51.90	\$64.14	
			1,001-2,000 w	ork hours	\$41.01	\$53.92	\$66.82	
			2,001-3,000 v	ork hours	\$42.35	\$55.92	\$69.50	
			3,001-4,000 v	ork hours	\$45.02	\$59.93	\$74.84	
Saturo		make up day allo	wed					
nand in n Fender, F	mortar Portabl	box);Mason Ten e Mixer Operato	ortar 1/2 cu yd.or sn der & Cement Masor r, and Air, Electric & & acetylene torc	•	\$50.05	\$67.08	\$84.20	нннхнннрү
comm Saturo		make up day allo	wed					
			quired to wear acid		\$50.39	\$67.59	\$84.88	нннхнннрү
comm Saturo		make up day allo	wed					
_499-M-D	•••••			8/15/2023				
Cleaner/S	Sweepe nent	er Laborer; Furni make up day allo			\$44.17	\$56.06	\$68.04	HHHXHHHDY

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
MITA-RZ1-C1	8/9/2023		======	======	
Laborer Road Class 1: asphalt shoveler or loatender, dumper, joint filling, form setting, for reinforcing, waterproofing, seal coating, bridg pressure grouting, RC equipment	m stripper, pavement	\$47.44	\$61.38	\$75.31	ннннннрү
Appr	entice Rates:				
3,001	-4,000 hours	\$46.05	\$59.29	\$72.53	
2,001	-3,000	\$43.26	\$55.11	\$66.95	
1,001	-2,000 hours	\$41.87	\$53.02	\$64.17	
0-1,00	00 hours	\$40.47	\$50.92	\$61.37	
Appr	entice Rates:				
3,001	-4,000 hours	\$46.05	\$59.29	\$72.53	
2,001	-3,000	\$43.26	\$55.11	\$66.95	
1,001	-2,000 hours	\$41.87	\$53.02	\$64.17	
0-1,0	00 hours	\$40.47	\$50.92	\$61.37	
MITA-RZ1-C2 Laborer Road Class 2: mixer operator, air or spreader, boxman, concreter paddler, power patch truck dumper, tunnel mucker, concrete macine and roto-mill grounds person	chain saw operator, paving	\$47.57	\$61.57	\$75.57	нннннн р ү
Appr	entice Rates:				
3,001	-4,000 hours	\$46.17	\$59.47	\$72.77	
2,001	-3,000 hours	\$43.37	\$55.27	\$67.17	
1,001	-2,000 hours	\$41.97	\$53.17	\$64.37	
0-1,00	00 hours	\$40.57	\$51.07	\$61.57	
Appr	entice Rates:				
3,001	-4,000 hours	\$46.17	\$59.47	\$72.77	
2,001	-3,000 hours	\$43.37	\$55.27	\$67.17	
1,001	-2,000 hours	\$41.97	\$53.17	\$64.37	
0-1,0	00 hours	\$40.57	\$51.07	\$61.57	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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			0				
<u>Classifica</u> Name De	<u>ation</u> escription		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
	=======================================		========	======		======	
MITA-RZ1-C3			8/9/2023	^		^	
		finish tenders, guard rail bu ion barrier and wall installer		\$47.75	\$61.84	\$75.93	ннннннрү
rector, bot		vagon drill and air track ope					
		Apprentice Rates:					
		3,001-4,000 hours		\$46.34	\$59.73	\$73.11	
		2,001-3,000 hours		\$43.52	\$55.49	\$67.47	
		1,001-2,000 hours		\$42.11	\$53.38	\$64.65	
		0-1,000 hours		\$40.71	\$51.28	\$61.85	
		Apprentice Rates:					
		3,001-4,000 hours		\$46.34	\$59.73	\$73.11	
		2,001-3,000 hours		\$43.52	\$55.49	\$67.47	
		1,001-2,000 hours		\$42.11	\$53.38	\$64.65	
		0-1,000 hours		\$40.71	\$51.28	\$61.85	
 /IITA-RZ1-C4			8/9/2023				
aborer Ro	ad Class 4: asphalt raker			\$47.83	\$61.46	\$75.59	H H H H H H D Y
		Apprentice Rates:					
		3,001-4,000 hours		\$46.42	\$59.35	\$72.77	
		2,001-3,000 hours		\$43.59	\$55.10	\$67.11	
		1,001-2,000 hours		\$42.18	\$52.99	\$64.29	
		0-1,000 hours		\$40.77	\$50.87	\$61.47	
		Apprentice Rates:					
		3,001-4,000 hours		\$46.42	\$59.35	\$72.77	
		2,001-3,000 hours		\$43.59	\$55.10	\$67.11	
		1,001-2,000 hours		\$42.18	\$52.99	\$64.29	
		1,001 2,000 110010					

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County **Official Rate Schedule**

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

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
=====================================		8/9/2023			======	
Laborer Road Class 5: pipe	e layers, oxy-gun		\$48.04	\$62.28	\$76.51	HHHHHHDY
	Apprentice Rates:					
	3,001-4,000 hours		\$46.62	\$60.15	\$73.67	
	2,001-3,000 hours		\$43.77	\$55.87	\$67.97	
	1,001-2,000 hours		\$42.35	\$53.74	\$65.13	
	0-1,000 hours		\$40.92	\$51.59	\$62.27	
	Apprentice Rates:					
	3,001-4,000 hours		\$46.62	\$60.15	\$73.67	
	2,001-3,000 hours		\$43.77	\$55.87	\$67.97	
	1,001-2,000 hours		\$42.35	\$53.74	\$65.13	
	0-1,000 hours		\$40.92	\$51.59	\$62.27	
		8/9/2023				
aborer Road Class 6: line	e form setter for curb or pavement, as n on asphalt paving machines		\$48.34	\$62.73	\$77.11	нннннннрү
aborer Road Class 6: line	n on asphalt paving machines Apprentice Rates:					ннннннрү
aborer Road Class 6: line	Apprentice Rates: 3,001-4,000 hours		\$46.90	\$60.57	\$74.23	нннннннрү
aborer Road Class 6: line	Apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours		\$46.90 \$44.02	\$60.57 \$56.25	\$74.23 \$68.47	ннннннн р ү
aborer Road Class 6: line	Apprentice Rates: 3,001-4,000 hours		\$46.90	\$60.57	\$74.23	н н н н н н н р ү
aborer Road Class 6: line	Apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours		\$46.90 \$44.02	\$60.57 \$56.25	\$74.23 \$68.47	ннннннрү
aborer Road Class 6: line	Apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours 1,001-2,000 hours		\$46.90 \$44.02 \$42.59	\$60.57 \$56.25 \$54.10	\$74.23 \$68.47 \$65.61	н н н н н н н D Y
aborer Road Class 6: line	Apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours 1,001-2,000 hours 0-1,000 hours		\$46.90 \$44.02 \$42.59	\$60.57 \$56.25 \$54.10	\$74.23 \$68.47 \$65.61	ннннннрү
aborer Road Class 6: line	Apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours 1,001-2,000 hours 0-1,000 hours Apprentice Rates:		\$46.90 \$44.02 \$42.59 \$41.15	\$60.57 \$56.25 \$54.10 \$51.94	\$74.23 \$68.47 \$65.61 \$62.73	н н н н н н н D Y
	Apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours 1,001-2,000 hours 0-1,000 hours Apprentice Rates: 3,001-4,000 hours		\$46.90 \$44.02 \$42.59 \$41.15	\$60.57 \$56.25 \$54.10 \$51.94 \$60.57	\$74.23 \$68.47 \$65.61 \$62.73	ннннннрү

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
======================================		8/9/2023	\$49.41	\$64.33	\$70.25	 Н Н Н Н Н Н Н D Y
trowling, cast in place or p	ncrete specialist - including finishing and precast by any method		Ф49.4 I	φ04.33	φ19.25	
	Apprentice Rates:					
	2,001-3,000 hours		\$44.93	\$57.61	\$70.29	
	3,001-4,000 hours		\$46.70	\$63.10	\$79.50	
	1,001-2,000 hours		\$43.44	\$55.37	\$67.31	
	0-1,000 hours		\$41.95	\$53.14	\$64.33	
	Apprentice Rates:					
	2,001-3,000 hours		\$44.93	\$57.61	\$70.29	
	3,001-4,000 hours		\$46.70	\$63.10	\$79.50	
	1,001-2,000 hours		\$43.44	\$55.37	\$67.31	
			044.05	CEO 44	C C 4 22	
	0-1,000 hours	8/9/2023	\$41.95	\$53.14	\$64.33	
aborer Road Class 1: aspender, dumper, joint fillir einforcing, waterproofing	ohalt shoveler or loader, yard man, fence ng, form setting, form stripper, pavemen ng, seal coating, bridge painting, sandblas	e erector t	\$41.95 \$45.39	\$58.38		н н н н н b Y
aborer Road Class 1: aspender, dumper, joint fillir einforcing, waterproofing	ohalt shoveler or loader, yard man, fence ng, form setting, form stripper, pavemen ng, seal coating, bridge painting, sandblas	e erector t				ннннннрү
aborer Road Class 1: aspender, dumper, joint fillir einforcing, waterproofing	phalt shoveler or loader, yard man, fence ng, form setting, form stripper, pavemen g, seal coating, bridge painting, sandblas uipment	e erector t				н н н н н н р Y
aborer Road Class 1: aspender, dumper, joint fillir einforcing, waterproofing	ohalt shoveler or loader, yard man, fence ng, form setting, form stripper, pavemen g, seal coating, bridge painting, sandblas uipment Apprentice Rates:	e erector t				Н Н Н Н Н D Y
Laborer Road Class 1: asp tender, dumper, joint fillir reinforcing, waterproofing	ohalt shoveler or loader, yard man, fence ng, form setting, form stripper, pavemen g, seal coating, bridge painting, sandblas uipment Apprentice Rates: 3,001-4,000 hours	e erector t				ннннннрү
tender, dumper, joint fillir	ohalt shoveler or loader, yard man, fence ng, form setting, form stripper, pavemen l, seal coating, bridge painting, sandblas uipment Apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours	e erector t				н н н н н р Y
Laborer Road Class 1: asp tender, dumper, joint fillir reinforcing, waterproofing	ohalt shoveler or loader, yard man, fence ng, form setting, form stripper, pavemen g, seal coating, bridge painting, sandblas uipment Apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours 1,001-2,000 hours	e erector t				Н Н Н Н Н D Y
Laborer Road Class 1: asp tender, dumper, joint fillir reinforcing, waterproofing	ohalt shoveler or loader, yard man, fence ng, form setting, form stripper, pavemen g, seal coating, bridge painting, sandblas uipment Apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours 1,001-2,000 hours 0-1,000 hours	e erector t	\$45.39	\$58.38	\$71.36	н н н н н н н D Y
Laborer Road Class 1: asp tender, dumper, joint fillir reinforcing, waterproofing	ohalt shoveler or loader, yard man, fenceing, form setting, form stripper, pavement, seal coating, bridge painting, sandblast aipment Apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours 1,001-2,000 hours 0-1,000 hours 3,001-4,000 hours	e erector t	\$45.39 \$44.09	\$58.38 \$56.42	\$71.36 \$68.76	н н н н н н D Y

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule
Every contractor and subcontractor shall keep
posted on the construction site, in a conspicuous
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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
=====================================		8/9/2023			======	
spreader, boxman, concreter	operator, air or electric tool operator, r paddler, power chain saw operator, mucker, concrete saw operator, dry p s person	paving	\$45.59	\$58.18	\$71.26	ннннннрү
	Apprentice Rates:					
	3,001-4,000 hours		\$44.28	\$56.21	\$68.64	
	2,001-3,000 hours		\$41.66	\$52.28	\$63.40	
	1,001-2,000 hours		\$40.36	\$50.33	\$60.80	
	0-1,000 hours		\$39.05	\$48.36	\$58.18	
MITA-RZ2-C3		1/5/2022				
Laborer Road Class 3: tunne median barrier installer, eart erector, bottom man, powde	el miner, finish tenders, guard rail buil ch retention barrier and wall installer, er man, wagon drill and air track opera	der, fence	\$45.43	\$58.64	\$71.84	H H H H H H D Y
aborer Road Class 3: tunne median barrier installer, eart erector, bottom man, powde	h retention barrier and wall installer,	der, fence	\$45.43	\$58.64	\$71.84	ннннннру
aborer Road Class 3: tunne median barrier installer, eart erector, bottom man, powde	th retention barrier and wall installer, or man, wagon drill and air track opera	der, fence	\$45.43 \$44.11	\$58.64 \$56.66	\$71.84 \$69.20	нннннннрү
Laborer Road Class 3: tunne median barrier installer, eart erector, bottom man, powde	th retention barrier and wall installer, er man, wagon drill and air track opera	der, fence				ннннннрү
_aborer Road Class 3: tunne median barrier installer, eart	th retention barrier and wall installer, or man, wagon drill and air track operators. Apprentice Rates: 3,001-4,000 hours	der, fence	\$44.11	\$56.66	\$69.20	ннннннрү
Laborer Road Class 3: tunne median barrier installer, eart erector, bottom man, powde	ch retention barrier and wall installer, or man, wagon drill and air track operator was apprentice Rates: 3,001-4,000 hours 2,001-3,000 hours	der, fence	\$44.11 \$41.47	\$56.66 \$52.70	\$69.20 \$63.92	ннннннрү
aborer Road Class 3: tunne median barrier installer, eart erector, bottom man, powde curb and side rail setter	ch retention barrier and wall installer, er man, wagon drill and air track operator man, wagon drill and wall installer, wagon drill and wall wall installer, wagon drill and wall wall wall wagon drill and w	der, fence	\$44.11 \$41.47 \$40.15	\$56.66 \$52.70 \$50.72	\$69.20 \$63.92 \$61.28	ннннннрү
aborer Road Class 3: tunne nedian barrier installer, eart erector, bottom man, powde curb and side rail setter	ch retention barrier and wall installer, er man, wagon drill and air track operator man, wagon drill and wagon drill and air track operator man, wagon drill and air t	der, fence ator,	\$44.11 \$41.47 \$40.15	\$56.66 \$52.70 \$50.72	\$69.20 \$63.92 \$61.28 \$58.64	нннннннрү
aborer Road Class 3: tunne nedian barrier installer, eart rector, bottom man, powde urb and side rail setter	ch retention barrier and wall installer, er man, wagon drill and air track operator man, wagon drill and wagon drill and air track operator man, wagon drill and air t	der, fence ator,	\$44.11 \$41.47 \$40.15 \$38.83	\$56.66 \$52.70 \$50.72 \$48.74	\$69.20 \$63.92 \$61.28 \$58.64	
aborer Road Class 3: tunne nedian barrier installer, eart rector, bottom man, powde urb and side rail setter	ch retention barrier and wall installer, er man, wagon drill and air track operator and wall installer, er man, wagon drill and air track operator and wall installer, er man, wagon drill and air track operator and air track opera	der, fence ator,	\$44.11 \$41.47 \$40.15 \$38.83	\$56.66 \$52.70 \$50.72 \$48.74	\$69.20 \$63.92 \$61.28 \$58.64	
aborer Road Class 3: tunne nedian barrier installer, eart erector, bottom man, powde curb and side rail setter	ch retention barrier and wall installer, er man, wagon drill and air track operator man, wagon drill and wagon drill and air track operator man, wagon drill and air track operator man, wagon drill and wagon drill a	der, fence ator,	\$44.11 \$41.47 \$40.15 \$38.83 \$46.18	\$56.66 \$52.70 \$50.72 \$48.74 \$59.56	\$69.20 \$63.92 \$61.28 \$58.64	
Laborer Road Class 3: tunne median barrier installer, eart erector, bottom man, powde	Apprentice Rates: 3,001-4,000 hours 0-1,000 hours 0-1,000 hours Apprentice Rates: 3,001-2,000 hours Apprentice Rates: 3,001-2,000 hours Apprentice Rates: 3,001-4,000 hours	der, fence ator,	\$44.11 \$41.47 \$40.15 \$38.83 \$46.18	\$56.66 \$52.70 \$50.72 \$48.74 \$59.56	\$69.20 \$63.92 \$61.28 \$58.64 \$72.94	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

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3/6/2024 Issue Date: Contract must be awarded by: 6/4/2024

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<u>Classification</u> Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
======================================		8/9/2023			======	
Laborer Road Class 5: pipe lay	ers, oxy-gun		\$46.05	\$59.37	\$72.68	H H H H H H D Y
	Apprentice Rates:					
	3,001-4,000 hours		\$44.72	\$57.37	\$70.02	
	2,001-3,000 hours		\$42.06	\$53.38	\$64.70	
	1,001-2,000 hours		\$40.72	\$51.37	\$62.02	
	0-1,000 hours		\$39.39	\$49.38	\$59.36	
MITA-RZ2-C6		8/9/2023				
Laborer Road Class 6: line for screed checker/screw man on	m setter for curb or pavement, asplasphalt paving machines	halt	\$46.39	\$59.88	\$73.36	ннннннрү
	Apprentice Rates:					
	3,001-4,000 hours		\$45.04	\$57.85	\$70.66	
	2,001-3,000 hours		\$42.34	\$53.80	\$65.26	
	1,001-2,000 hours		\$41.00	\$51.79	\$62.58	
	0-1,000 hours		\$39.65	\$49.76	\$59.88	
MITA-RZ2-C7		1/5/2022				
Laborer Road Class 7: concret crowling, cast in place or preca	e specialist - including finishing and ast by any method		\$48.96	\$63.73	\$78.50	H H H H H H D Y
	Apprentice Rates:					
	3,001-4,000 hours		\$47.48	\$61.51	\$75.54	
	2,001-3,000 hours		\$44.53	\$57.08	\$69.64	
	1,001-2,000 hours		\$43.05	\$54.86	\$66.68	
	0-1,000 hours		\$41.58	\$52.66	\$63.74	

Official Rate Schedule

Official Request #: 624

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Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County

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

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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lame Description	Last Update	•	Time and a Half	Double Time	Overtime Provision
======================================				======	
ender, dumper, joint filling, forn	oveler or loader, yard man, fence erector n setting, form stripper, pavement coating, bridge painting, sandblasting, t	\$44.64	\$57.20	\$69.76	н н н н н н н D Y
	Apprentice Rates:				
	3,001-4,000 hours	\$43.38	\$55.31	\$67.24	
	2,001-3,000 hours	\$40.87	\$51.54	\$62.22	
	1,001-2,000 hours	\$39.62	\$49.67	\$59.72	
	0-1,000 hours	\$38.36	\$47.78	\$57.20	
ITA-RZ3-C2	8/9/2023				
preader, boxman, concreter pac	rator, air or electric tool operator, ddler, power chain saw operator, paving ker, concrete saw operator, dry pack rson	\$44.85	\$57.02	\$69.68	н н н н н н н D Y
	Apprentice Rates:				
	3,001-4,000 hours	\$43.58	\$55.11	\$67.14	
	2,001-3,000 hours	\$41.05	\$51.32	\$62.08	
			\$49.41	\$59.54	
	1,001-2,000 hours	\$39.78	φ49.41	φυθ.υ4	
	1,001-2,000 hours 0-1,000 hours	\$39.78 \$38.52	\$47.52	\$57.02	
ITA-RZ3-C3		\$38.52			
aborer Road Class 3: tunnel mir nedian barrier installer, earth re	0-1,000 hours	\$38.52		\$57.02	н н н н н н н D Y
aborer Road Class 3: tunnel mir edian barrier installer, earth re rector, bottom man, powder ma	0-1,000 hours 1/5/2022 ner, finish tenders, guard rail builder, tention barrier and wall installer, fence	\$38.52	\$47.52	\$57.02	н н н н н р ү
aborer Road Class 3: tunnel mir edian barrier installer, earth re ector, bottom man, powder ma	0-1,000 hours 1/5/2022 ner, finish tenders, guard rail builder, tention barrier and wall installer, fence an, wagon drill and air track operator,	\$38.52	\$47.52	\$57.02	ннннннрү
aborer Road Class 3: tunnel mir edian barrier installer, earth re ector, bottom man, powder ma	0-1,000 hours 1/5/2022 ner, finish tenders, guard rail builder, tention barrier and wall installer, fence an, wagon drill and air track operator, Apprentice Rates:	\$38.52 \$45.14	\$47.52 \$57.95	\$57.02 \$70.76	н н н н н р Y
aborer Road Class 3: tunnel mir nedian barrier installer, earth re rector, bottom man, powder ma	0-1,000 hours 1/5/2022 ner, finish tenders, guard rail builder, tention barrier and wall installer, fence an, wagon drill and air track operator, Apprentice Rates: 3,001-4,000 hours	\$38.52 \$45.14 \$43.86	\$47.52 \$57.95 \$56.03 \$52.19	\$57.02 \$70.76 \$68.20	н н н н н н н р ү

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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	ı ayı	2 24 01 40				
Classification Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
 MITA-RZ3-C4		8/9/2023	======	======	======	
Laborer Road Class 4:	asphalt raker		\$45.58	\$58.61	\$71.64	H H H H H H D Y
	Apprentice Rates:					
	3,001-4,000 hours		\$44.28	\$56.66	\$69.04	
	2,001-3,000 hours		\$41.67	\$52.74	\$63.82	
	1,001-2,000 hours		\$40.37	\$50.80	\$61.22	
	0-1,000 hours		\$39.07	\$48.84	\$58.62	
MITA-RZ3-C5		8/9/2023			•••••	
Laborer Road Class 5:	pipe layers, oxy-gun		\$45.20	\$58.04	\$70.88	H H H H H H D Y
	Apprentice Rates:					
	3,001-4,000 hours		\$43.92	\$56.12	\$68.32	
	2,001-3,000 hours		\$41.35	\$52.26	\$63.18	
	1,001-2,000 hours		\$40.06	\$50.33	\$60.60	
	0-1,000 hours		\$38.78	\$48.41	\$58.04	
MITA-RZ3-C6		8/9/2023				
	line form setter for curb or pavement man on asphalt paving machines	nt, asphalt	\$45.63	\$58.69	\$71.74	ннннннрү
	Apprentice Rates:					
	3,001-4,000 hours		\$44.32	\$56.72	\$69.12	
	2,001-3,000 hours		\$41.71	\$52.80	\$63.90	
	1,001-2,000 hours		\$40.41	\$50.86	\$61.30	
	0-1,000 hours		\$39.10	\$48.89	\$58.68	
MITA-RZ3-C7		1/5/2022				
Laborer Road Class 7:	concrete specialist - including finishing or precast by any method	ng and	\$48.96	\$63.18	\$77.90	H H H H H H D Y
	Apprentice Rates:					
	3,001-4,000 hours		\$47.49	\$60.98	\$74.96	
	2,001-3,000 hours		\$44.54	\$56.55	\$69.06	
	1,001-2,000 hours		\$43.07	\$54.34	\$66.12	
	0-1,000 hours		\$41.60	\$52.14	\$63.18	

Official Request #: 624

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ame Description	Last Updated		Time and a Half	Double Time	Overtime Provision
	8/15/2023				
ender, dumper, joint filling, fo	shoveler or loader, yard man, fence erector orm setting, form stripper, pavement Il coating, bridge painting, sandblasting, ent	\$44.64	\$57.75	\$70.86	H H H H H H D Y
	Apprentice Rates:				
	3,001-4,000 hours	\$43.33	\$55.78	\$68.24	
	2,001-3,000 hours	\$40.71	\$51.86	\$63.00	
	1,001-2,000 hours	\$39.40	\$49.89	\$60.38	
	0-1,000 hours	\$38.08	\$47.91	\$57.74	
	8/15/2023				
reader, boxman, concreter p	perator, air or electric tool operator, addler, power chain saw operator, paving ucker, concrete saw operator, dry pack person	\$44.75	\$57.97	\$71.18	H H H H H H H D Y
	Apprentice Rates:				
	3,001-4,000 hours	\$41.53	\$53.14	\$64.74	
	3,001-4,000 hours 2,001-3,000 hours	\$41.53 \$39.09	\$53.14 \$49.48	\$64.74 \$59.86	
			·		
	2,001-3,000 hours	\$39.09	\$49.48	\$59.86	
	2,001-3,000 hours 1,001-2,000 hours	\$39.09 \$37.86	\$49.48 \$47.63	\$59.86 \$57.40	
aborer Road Class 3: tunnel n ledian barrier installer, earth	2,001-3,000 hours 1,001-2,000 hours 0-1,000 hours	\$39.09 \$37.86	\$49.48 \$47.63	\$59.86 \$57.40 \$54.96	ннннннрү
aborer Road Class 3: tunnel n edian barrier installer, earth ector, bottom man, powder i	2,001-3,000 hours 1,001-2,000 hours 0-1,000 hours 8/15/2023 niner, finish tenders, guard rail builder, retention barrier and wall installer, fence	\$39.09 \$37.86 \$36.64	\$49.48 \$47.63 \$45.80	\$59.86 \$57.40 \$54.96	н н н н н н н D Y
borer Road Class 3: tunnel nedian barrier installer, earth ector, bottom man, powder i	2,001-3,000 hours 1,001-2,000 hours 0-1,000 hours 8/15/2023 niner, finish tenders, guard rail builder, retention barrier and wall installer, fence man, wagon drill and air track operator,	\$39.09 \$37.86 \$36.64	\$49.48 \$47.63 \$45.80	\$59.86 \$57.40 \$54.96	н н н н н н н р ү
borer Road Class 3: tunnel nedian barrier installer, earth ector, bottom man, powder i	2,001-3,000 hours 1,001-2,000 hours 0-1,000 hours 8/15/2023 niner, finish tenders, guard rail builder, retention barrier and wall installer, fenceman, wagon drill and air track operator, Apprentice Rates:	\$39.09 \$37.86 \$36.64 \$45.14	\$49.48 \$47.63 \$45.80 \$58.50	\$59.86 \$57.40 \$54.96 \$71.86	н н н н н н н D Y
borer Road Class 3: tunnel nedian barrier installer, earth ector, bottom man, powder i	2,001-3,000 hours 1,001-2,000 hours 0-1,000 hours 8/15/2023 niner, finish tenders, guard rail builder, retention barrier and wall installer, fenceman, wagon drill and air track operator, Apprentice Rates: 3,001-4,000 hours	\$39.09 \$37.86 \$36.64 \$45.14	\$49.48 \$47.63 \$45.80 \$58.50	\$59.86 \$57.40 \$54.96 \$71.86	н н н н н н р ү

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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	1 agc 20 0	1 70				
Classification Vame Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
		8/15/2023			======	
Laborer Road Class 4: aspha	alt raker	0, 10, 2020	\$45.58	\$59.16	\$72.74	H H H H H H D Y
	Apprentice Rates:					
	3,001-4,000 hours		\$44.22	\$57.12	\$70.02	
	2,001-3,000 hours		\$41.51	\$53.06	\$64.60	
	1,001-2,000 hours		\$40.15	\$51.02	\$61.88	
	0-1,000 hours		\$38.79	\$48.98	\$59.16	
MITA-RZ4-C5		8/15/2023				
_aborer Road Class 5: pipe la	ayers, oxy-gun		\$45.20	\$58.59	\$71.98	HHHHHHDY
	Apprentice Rates:		4.	4 -		
	3,001-4,000 hours		\$43.86	\$56.58	\$69.30	
	2,001-3,000 hours		\$41.18	\$52.56	\$63.94	
	1,001-2,000 hours		\$39.84	\$50.55	\$61.26	
	0-1,000 hours		\$38.50	\$48.54	\$58.58	
MITA-RZ4-C6		8/15/2023				
Laborer Road Class 6: line fo screed checker/screw man o	orm setter for curb or pavement, asp n asphalt paving machines	halt	\$45.53	\$59.14	\$72.74	HHHHHHDY
	Apprentice Rates:					
	3,001-4,000 hours		\$44.17	\$57.10	\$70.02	
	2,001-3,000 hours		\$41.45	\$53.02	\$64.58	
	1,001-2,000 hours		\$40.09	\$50.98	\$61.86	
	0-1,000 hours		\$38.73	\$48.94	\$59.14	
MITA-RZ4-C7		8/15/2023				
Laborer Road Class 7: concre trowling, cast in place or pred	ete specialist - including finishing and cast by any method		\$48.86	\$64.13	\$79.40	H H H H H H D Y
	Apprentice Rates:					
	3,001-4,000 hours		\$47.33	\$61.84	\$76.34	
	2,001-3,000 hours		\$44.28	\$57.26	\$70.24	
	1,001-2,000 hours		\$42.75	\$54.96	\$67.18	
	0-1,000 hours		\$41.22	\$52.67	\$64.12	

Official Request #: 624

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Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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Classification Name Description	L		Straight Hourly	Time and a Half	Double Time	Overtime Provision
MLDC	1	2/12/2023				
Asbestos & Lead Abatement Lab allowed Monday-Saturday, must	orer 4 ten hour days @ straight tim be consecutive calendar days	ne s	\$50.60	\$65.37	\$80.13	HHHXXXXXDY
	Apprentice Rates:					
	Trainee 600 hours +1 year		\$34.07			
aborer - Hazardous	~~~~~~~~~	~~~~~	~~~~	~~~~~	~~~~~	~~~~~~
-~~~~~~~~~ LHAZ-Z4-A2		2/14/2021	~~~~	~~~~~	~~~~	~~~~~~~~
preliminary work prior to actual	junction with site preparation and ot removal, handling, or containment o t requiring use of personal protective federal regula	of	\$46.83	\$60.40	\$73.96	ннннннрү
	Apprentice Rates:					
	0-1,000 work hours		\$40.05	\$50.22	\$60.40	
	1,001-2,000 work hours		\$41.40	\$52.25	\$63.10	
	2,001-3,000 work hours		\$42.76	\$54.29	\$65.82	
	3,001-4,000 work hours		\$45.47	\$58.36	\$71.24	
comment make up day allo 4 10s allowed M-Th or T-F; incle	wed ement weather makeup day Friday					
LHAZ-Z4-B2		8/9/2023				
	njunction with the removal, handling, e substances when the use of person "B" or "C" is required.		\$47.83	\$61.90	\$75.96	ннннннру
	Apprentice Rates:					
	0-1,000 work hours		\$40.80	\$51.35	\$61.90	
	1,001-2,000 work hours		\$42.20	\$53.45	\$64.70	
	2,001-3,000 work hours		\$43.61	\$55.56	\$67.52	
	3,001-4,000 work hours		\$46.42	\$59.78	\$73.14	
comment make up day allo	wed ement weather makeup day Friday					

Official Request #: 624

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Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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3/6/2024 Issue Date: Contract must be awarded by: 6/4/2024

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Classification Name Description	Last Updated	Hourly	Time and a Half	Double Time	Overtime Provision
aborer - Landscape		~~~~~	~~~~~	.~~~~	~~~~~~~
LLAN-Z1-A	8/9/2023				X X H X X X H D Y
operator, lawn sprinkler install	includes air, gas, and diesel equipment ler,skidsteer, mini excavators, backhoe trenchers, off road dump vehicle, ler, wheel loaders	\$32.40	\$42.43	Φ 32.93	***************************************
 LLAN-Z1-B	8/9/2023				
Class B2: Skilled Landscape La	aborer: small power tool operator, lawn gation installers' tender, material mover	\$30.40	\$39.93	\$49.45	X
LLAN-Z2-D	1/7/2022				
Class D: Inexperienced landsolless than 90 calendar days	cape laborer - individual who has worked	\$15.54	\$23.31	\$31.08	HHHHHHDN
aborer Underground - Tunn		~~~~~	~~~~~		~~~~~~
aborer Underground - Tunn LAUCT-Z2-1 Class I - Tunnel, shaft and cai	sson laborer, dump man, shanty man, hog	\$38.97	\$50.26		X X X X X X X D Y
aborer Underground - Tunn LAUCT-Z2-1 Class I - Tunnel, shaft and cai	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates:		\$50.26	\$61.54	
aborer Underground - Tunn LAUCT-Z2-1 Class I - Tunnel, shaft and cai	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates: 0-1,000 work hours	\$38.97 \$32.85	\$50.26 \$42.64	\$61.54 \$52.43	
aborer Underground - Tunn LAUCT-Z2-1 Class I - Tunnel, shaft and cai	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours	\$38.97 \$32.85 \$33.97	\$50.26 \$42.64 \$44.32	\$61.54 \$52.43 \$54.67	
aborer Underground - Tunn	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours	\$38.97 \$32.85 \$33.97 \$35.08	\$50.26 \$42.64 \$44.32 \$45.99	\$61.54 \$52.43 \$54.67 \$56.89	
aborer Underground - Tunn	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours	\$38.97 \$32.85 \$33.97	\$50.26 \$42.64 \$44.32	\$61.54 \$52.43 \$54.67	
LAUCT-Z2-1 Class I - Tunnel, shaft and cai house tender, testing man (or	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours	\$38.97 \$32.85 \$33.97 \$35.08	\$50.26 \$42.64 \$44.32 \$45.99	\$61.54 \$52.43 \$54.67 \$56.89	
LAUCT-Z2-2 Class II - Manhole, headwall, of the control of the con	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours	\$38.97 \$32.85 \$33.97 \$35.08	\$50.26 \$42.64 \$44.32 \$45.99	\$61.54 \$52.43 \$54.67 \$56.89 \$61.35	
AUCT-Z2-2 Class II - Manhole, headwall, of the control of the cont	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours	\$38.97 \$32.85 \$33.97 \$35.08 \$37.31	\$50.26 \$42.64 \$44.32 \$45.99 \$49.33	\$61.54 \$52.43 \$54.67 \$56.89 \$61.35	X X X X X X D Y
AUCT-Z2-2 Class II - Manhole, headwall, of the control of the cont	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours	\$38.97 \$32.85 \$33.97 \$35.08 \$37.31	\$50.26 \$42.64 \$44.32 \$45.99 \$49.33	\$61.54 \$52.43 \$54.67 \$56.89 \$61.35	X X X X X X D Y
LAUCT-Z2-2 Class II - Manhole, headwall, of the control of the con	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours 8/8/2023 catch basin builder, bricklayer tender, ence erector, and guard rail builder Apprentice Rates:	\$38.97 \$32.85 \$33.97 \$35.08 \$37.31	\$50.26 \$42.64 \$44.32 \$45.99 \$49.33 \$50.39	\$61.54 \$52.43 \$54.67 \$56.89 \$61.35	X X X X X X D Y
LAUCT-Z2-2 Class II - Manhole, headwall, of the control of the con	sson laborer, dump man, shanty man, hog n gas), and watchman. Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours 8/8/2023 catch basin builder, bricklayer tender, ence erector, and guard rail builder Apprentice Rates: 0-1,000 work hours	\$38.97 \$32.85 \$33.97 \$35.08 \$37.31 \$39.06	\$50.26 \$42.64 \$44.32 \$45.99 \$49.33 \$50.39	\$61.54 \$52.43 \$54.67 \$56.89 \$61.35 \$61.72	X X X X X X D Y

Official Request #: 624

Official Rate Schedule Requestor: Monroe Public Schools

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification ame Description =======	Las Upda 		raight ourly	Time and a Half	Double Time	Overtime Provision
grinding man), first bottom man, s	ammer man, bush hammer man and econd bottom man, cage tender, car , concrete form man, concrete repair nt finisher, con		39.16	\$50.54	\$61.92	$X\;X\;X\;X\;X\;X\;X\;X\;$
	Apprentice Rates:					
	0-1,000 work hours	\$:	32.99	\$42.85	\$52.71	
	1,001-2,000 work hours	\$:	34.12	\$44.55	\$54.97	
	2,001-3,000 work hours	\$:	35.24	\$46.23	\$57.21	
	3,001-4,000 work hours	\$:	37.49	\$49.60	\$61.71	
AUCT-Z2-4	8/8/20)23				
Class IV - Tunnel, shaft and caisso ong haul dinky driver and well poi	n mucker, bracer man, liner plate ma nt man.	n, \$3	39.58	\$51.17	\$62.76	X X X X X X X D Y
	Apprentice Rates:					
	0-1,000 work hours	\$:	33.11	\$43.03	\$52.95	
	1,001-2,000 work hours	\$:	34.25	\$44.74	\$55.23	
	2,001-3,000 work hours	\$:	35.38	\$46.43	\$57.49	
	3,001-4,000 work hours	\$3	37.64	\$49.83	\$62.01	
 AUCT-Z2-5	8/8/20)23				
	n miner, drill runner, keyboard operato teel or mesh man (e.g. wire mesh, ste		39.58	\$51.17	\$62.76	X
	Apprentice Rates:					
	0-1,000 work hours	\$:	33.31	\$43.33	\$53.35	
	1,001-2,000 work hours	\$:	34.45	\$45.04	\$55.63	
	2,001-3,000 work hours	\$:	35.60	\$46.77	\$57.93	
	3,001-4,000 work hours	\$:	37.89	\$50.20	\$62.51	

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<u>Classification</u> lame Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
======================================		1/4/2022	=======	======	======	
Class VI - Dynamite man an	d powder man.		\$39.34	\$52.38	\$65.41	X X X X X X X D Y
	Apprentice Rates:					
	0-1,000 work hours		\$33.54	\$43.67	\$53.81	
	1,001-2,000 work hours		\$34.70	\$45.41	\$56.13	
	2,001-3,000 work hours		\$35.86	\$47.15	\$58.45	
	3,001-4,000 work hours		\$38.18	\$50.63	\$63.09	
LAUCT-Z2-7		8/8/2023				
mulching and topsoil gradin	rer, seeding, sodding, planting, cutting g and the restoration of property suc chips, planter boxes and flagstones.		\$32.16	\$40.04	\$47.92	X
	Apprentice Rates:					
	0-1,000 work hours		\$27.75	\$34.99	\$42.23	
	1,001-2,000 work hours		\$28.52	\$36.15	\$43.77	
	2,001-3,000 work hours		\$29.29	\$37.30	\$45.31	
	3,001-4,000 work hours		\$30.84	\$39.63	\$48.41	
aborer -Underground Ope	an Cut Clace I	~~~~~	~~~~~	~~~~~		~~~~~~
		~~~~~~ 1/4/2022	~~~~~	~~~~~	.~~~~	~~~~~~
Construction Laborer			\$38.17	\$50.57	\$62.97	$X \; X \; X \; X \; X \; X \; X \; D \; Y$
Construction Laborer						
Construction Laborer	Apprentice Rates:					
Construction Laborer	Apprentice Rates: 0-1,000 work hours		\$32.74	\$42.42	\$52.11	
Construction Laborer	• •		\$32.74 \$33.83		\$52.11 \$54.29	
Construction Laborer	0-1,000 work hours					

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Classification  Name Description		Last Updated	Hourly	Time and a Half	Double Time	Provision
.aborer -Underground Open Cut, C	~~~~~~~~~					
	~~~~~~~~~	1/4/2022	~~~~~	~~~~~	~~~~~	~~~~~~~
Mortar and material mixer, concrete man, manhole, headwall and catch b headwall, seawall, breakwall, dock b	asin builder, guard rail builde		\$38.28	\$50.74	\$63.19	X
	Apprentice Rates:					
	0-1,000 work hours		\$32.83	\$42.56	\$52.29	
	1,001-2,000 work hours		\$33.92	\$44.20	\$54.47	
	2,001-3,000 work hours		\$35.01	\$45.83	\$56.65	
	3,001-4,000 work hours		\$37.19	\$49.10	\$61.01	
aborer -Underground Open Cut, C		~~~~~	~~~~~	~~~~~	~~~~	~~~~~~
	~~~~~~~	~~~~~~ 1/4/2022	~~~~~	~~~~~	~~~~~	~~~~~~~
Air, gasoline and electric tool operator man, tar kettle operator, bracers, roc (e.g. wire mesh, steel mats, dowel b pipe jacking and boring man, wagon	dder, reinforced steel or meshars, etc.), cement finisher, we	pump n man	\$38.40	\$50.92	\$63.43	X
	Apprentice Rates:					
	0-1,000 work hours		\$32.92	\$42.70	\$52.47	
	1,001-2,000 work hours		\$34.01	\$44.33	\$54.65	
	2,001-3,000 work hours		\$35.11	\$45.98	\$56.85	
	3,001-4,000 work hours		\$37.30	\$49.26	\$61.23	
Laborer -Underground Open Cut, C	Class IV	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
	~~~~~~~~~~	1/4/2022	~~~~~	~~~~~	~~~~~	~~~~~~~~
Trench or excavating grade man.			\$38.47	\$51.02	\$63.57	X X X X X X X X D Y
	Apprentice Rates:					
	0-1,000 work hours		\$32.97	\$42.77	\$52.57	
	1,001-2,000 work hours		\$34.07	\$44.42	\$54.77	
	2,001-3,000 work hours		\$35.17	\$46.07	\$56.97	
	3,001-4,000 work hours		\$37.37	\$49.37	\$61.37	
			•••••			

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Classification Name Description	Last Updat	ed Hourly	Time and a Half	Double Time	Provision
	.~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
	.~~~~~~~~~~~~~~~~~~~~~~~~~~~~ 1/4/20:		~~~~~	~~~~~	~~~~~~~
Pipe Layer (including crock, me	etal pipe, multiplate or other conduits) Apprentice Rates:	\$38.62	\$51.25	\$63.87	X
	0-1,000 work hours	\$33.08	\$42.94	\$52.79	
	1,001-2,000 work hours	\$34.19	\$44.60	\$55.01	
	2,001-3,000 work hours	\$35.30	\$46.26	\$57.23	
	3,001-4,000 work hours	\$37.51	\$49.58	\$61.65	
aborer -Underground Open (~~~~~	~~~~~	~~~~~	~~~~~
-	.~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~	~~~~~	~~~~~~~
	nt, audio visual television operations and	\$35.92	\$47.20	\$58.47	X
all other operations in connection pipe cleaning and pipe relining	on with closed circuit television inspection work and the installation and repair of the chair o	,			
all other operations in connection pipe cleaning and pipe relining	work and the installation and repair of	,			
all other operations in connection pipe cleaning and pipe relining	work and the installation and repair of man	\$31.06	\$39.90	\$48.75	
all other operations in connection pipe cleaning and pipe relining	work and the installation and repair of enan Apprentice Rates:		\$39.90 \$41.36	\$48.75 \$50.69	
all other operations in connection pipe cleaning and pipe relining	work and the installation and repair of enan Apprentice Rates: 0-1,000 work hours	\$31.06			
all other operations in connection	work and the installation and repair of enan Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours	\$31.06 \$32.03	\$41.36	\$50.69	
all other operations in connecti- pipe cleaning and pipe relining water service pipe and appurte	work and the installation and repair of than Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours	\$31.06 \$32.03 \$33.00 \$34.95	\$41.36 \$42.82 \$45.74	\$50.69 \$52.63 \$56.53	~~~~~~
all other operations in connecti- pipe cleaning and pipe relining water service pipe and appurte	work and the installation and repair of than Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours	\$31.06 \$32.03 \$33.00 \$34.95	\$41.36 \$42.82 \$45.74	\$50.69 \$52.63 \$56.53	~~~~~~~~~
all other operations in connection pipe cleaning and pipe relining water service pipe and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appure	work and the installation and repair of enan Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours Cut, Class VII	\$31.06 \$32.03 \$33.00 \$34.95	\$41.36 \$42.82 \$45.74	\$50.69 \$52.63 \$56.53	X X X X X X X D Y
all other operations in connection pipe cleaning and pipe relining water service pipe and appurte water service pipe and appurte and appur	work and the installation and repair of enan Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours Cut, Class VII	\$31.06 \$32.03 \$33.00 \$34.95	\$41.36 \$42.82 \$45.74	\$50.69 \$52.63 \$56.53	
all other operations in connection pipe cleaning and pipe relining water service pipe and appurte water service pipe and appurte and appur	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours Cut, Class VII Odding, planting, cutting, mulching and tion of property such as replacing mail tes, flagstones etc.	\$31.06 \$32.03 \$33.00 \$34.95	\$41.36 \$42.82 \$45.74	\$50.69 \$52.63 \$56.53	
all other operations in connection pipe cleaning and pipe relining water service pipe and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appured and appurted and appurted and appurted and appurted and appure	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours Cut, Class VII 1/4/20: odding, planting, cutting, mulching and tion of property such as replacing mail tes, flagstones etc. Apprentice Rates:	\$31.06 \$32.03 \$33.00 \$34.95	\$41.36 \$42.82 \$45.74 	\$50.69 \$52.63 \$56.53	
all other operations in connection pipe cleaning and pipe relining water service pipe and appurte water service pipe and appure service pipe and appurte water service pipe and appure service pipe and appurte water service pipe and appurte pip	Apprentice Rates: 0-1,000 work hours 1,001-2,000 work hours 2,001-3,000 work hours 3,001-4,000 work hours Cut, Class VII Cut, Class VII Apprentice Rates: 0-1,000 work hours	\$31.06 \$32.03 \$33.00 \$34.95	\$41.36 \$42.82 \$45.74 \$42.16	\$50.69 \$52.63 \$56.53 \$51.75	

Official Request #: 624

Requestor: Monroe Public Schools

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Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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	Last Updated	Hourly	a Half	Double Time	Overtime Provision
	-~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
	1/10/2024	\$34.62	\$46.26		x X H X X x H D Y H
~~~~~~~		~~~~~		~~~~~	~~~~~
~~~~~~~~~~		~~~~~	~~~~~	~~~~~	~~~~~~~
Construction Foremen.	0/9/2023	\$34.62	\$46.26	\$57.89	X X H X X X X D Y
~~~~~~~~~~~	.~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
~~~~~~~~~~~	12/14/2023	~~~~~	~~~~~	~~~~~	~~~~~~
Apprentice Deter-		\$38.78	\$52.83	\$66.87	$H\;H\;H\;X\;X\;X\;X\;D\;Y$
		\$35.61	\$49.90	\$64.18	
Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
Lineman (2nd - 6 months)		\$25.45	\$34.66	\$43.86	
Lineman (1st - 6 months)		\$22.91	\$30.85	\$38.78	
~~~~~~~~~~		~~~~~	······································	~~~~~	~~~~~~
~~~~~~~~~~~	8/18/2023	~~~~~	~~~~~	~~~~~	~~~~~~
120' or longer		\$66.90	\$87.58	\$108.26	X X H H D D D Y
.40' or longerWork in excess of 12	8/18/2023	\$67.61	\$85.95	\$104.29	X X H H D D D D Y
	Construction Foremen. Construction Foremen. Construction Foremen. Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months) Lineman (4th - 6 months) Lineman (3rd - 6 months) Lineman (2nd - 6 months) Lineman (1st - 6 months) Lineman (1st - 6 months)	Updated Construction Foremen. Significant Struction Foremen. Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months) Lineman (3rd - 6 months) Lineman (2nd - 6 months) Lineman (1st - 6 months)	Updated Hourly	Updated Hourly a Half	Updated Hourly a Half Time 1/10/2024

Official Request #: 624

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification Jame Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
======================================	======================================	8/18/2023 12 per	\$67.97	\$86.44	\$104.90	X X H H D D D D Y
day M-F shall be paid at double		12 μα	ψ0.101	ψοσ	ψ.σσσ	
EN-324-A300		8/18/2023				
Crane with boom & jib or leads day M-F shall be paid at double	300' or longerWork in excess of e time.	12 per	\$69.52	\$88.64	\$107.76	X
EN-324-A400		8/18/2023				
Crane with boom & jib or leads day M-F shall be paid at double	s 400' or longerWork in excess of e time.	12 per	\$71.02	\$90.80	\$110.57	X
 EN-324-CW		12/10/2021				
Compressor or welding maching be paid at double time.	eWork in excess of 12 per day M	-F shall	\$54.86	\$69.72	\$84.58	X
EN-324-FO		12/9/2021				
Fireman or oilerWork in excess double time.	of 12 per day M-F shall be paid	at	\$53.83	\$68.18	\$82.52	X
EN-324-RC		12/10/2021				
Regular crane, job mechanic, c excess of 12 per day M-F shall	oncrete pump with boomWork ir be paid at double time.	l	\$64.85	\$84.71	\$104.56	X
EN-324-RE		12/10/2021				
	ator, remote controlled concrete er day M-F shall be paid at doubl		\$63.88	\$83.25	\$102.62	XXHHDDDDY
	Apprentice Rates:					
	0-999 hours		\$46.35	\$58.48	\$70.61	
	1,000-1,999 hours		\$48.09	\$61.10	\$74.09	
	2,000-2,999 hours		\$49.82	\$63.68	\$77.55	
	3,000-3,999 hours		\$51.55	\$66.28	\$81.01	
			.	ተርዕ ሰሰ	\$84.49	
	4,000-4,999 hours		\$53.29	\$68.90	ф04.49	

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification					
ame Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
	· 		======	======	
N-324-Statewide lass I - diver/wet tender, engineer, blaster, leverman	8/18/2023	\$82.82	\$107.82	\$132.82	x
idas i diver, wee tender, engineer, bidater, reverman		ψ02.02	Ψ.σσ_	Ψ.σΞ.σΞ	Н
N-324-Statewide-III	8/18/2023				
class III - Deck equip. operator, maintenance of crane or excav ug/launch operator, loader/dozer on barge/deck machinery, tru ug, lead surveyor, ROV operator, AB deckhand, welder		\$76.82	\$98.82	\$120.82	X
N-324-Statewide-IV	8/18/2023				
class IV - Deck equipment operator, machineryman/fireman, of rucks, deck hand, tug engineer, assistant tug operator, blaster		\$72.32	\$92.07	\$111.82	$\begin{smallmatrix} H & X & X & X & X & X & X & D & N \\ x & & & & & & & & & & & & & & & & & &$
eck hand, jet machine, subsea plow, trencher, tug engineer					
N-324-SW	8/18/2023				
xtended boom forklift/forktruck over 5,000lb capacity, 1 drum	hoist	\$69.61	\$88.88	\$108.15	HHDHHHDDY
5040	0/47/0000				
E-324-Statewide ourneyman - Class III	8/17/2023	\$56.63	\$70.34	\$84.04	$H\;X\;X\;X\;X\;X\;X\;D\;Y$
Apprentice Rates:					X
31-36 months					
		\$62.01	\$80.44	\$98.88	
25-30 months		\$62.01 \$60.08	\$80.44 \$77.54	\$98.88 \$95.01	
25-30 months 19-24 months		\$60.08	\$77.54	\$95.01	
19-24 months		\$60.08 \$58.13	\$77.54 \$74.62	\$95.01 \$91.13	
		\$60.08 \$58.13 \$56.19	\$77.54 \$74.62 \$71.72	\$95.01 \$91.13 \$87.24	
19-24 months 13-18 months 7-12 months		\$60.08 \$58.13 \$56.19 \$54.25	\$77.54 \$74.62 \$71.72 \$68.81	\$95.01 \$91.13 \$87.24 \$83.36	
19-24 months 13-18 months 7-12 months 0-6 months		\$60.08 \$58.13 \$56.19	\$77.54 \$74.62 \$71.72 \$68.81	\$95.01 \$91.13 \$87.24	
19-24 months 13-18 months 7-12 months		\$60.08 \$58.13 \$56.19 \$54.25 \$48.21	\$77.54 \$74.62 \$71.72 \$68.81 \$59.76	\$95.01 \$91.13 \$87.24 \$83.36	
19-24 months 13-18 months 7-12 months 0-6 months Apprentice Rates:		\$60.08 \$58.13 \$56.19 \$54.25	\$77.54 \$74.62 \$71.72 \$68.81 \$59.76	\$95.01 \$91.13 \$87.24 \$83.36 \$71.29	
19-24 months 13-18 months 7-12 months 0-6 months Apprentice Rates: 31-36 months		\$60.08 \$58.13 \$56.19 \$54.25 \$48.21 \$62.01	\$77.54 \$74.62 \$71.72 \$68.81 \$59.76	\$95.01 \$91.13 \$87.24 \$83.36 \$71.29	
19-24 months 13-18 months 7-12 months 0-6 months Apprentice Rates: 31-36 months 25-30 months 19-24 months		\$60.08 \$58.13 \$56.19 \$54.25 \$48.21 \$62.01 \$60.08 \$58.13	\$77.54 \$74.62 \$71.72 \$68.81 \$59.76 \$80.44 \$77.54 \$74.62	\$95.01 \$91.13 \$87.24 \$83.36 \$71.29 \$98.88 \$95.01 \$91.13	
19-24 months 13-18 months 7-12 months 0-6 months Apprentice Rates: 31-36 months 25-30 months		\$60.08 \$58.13 \$56.19 \$54.25 \$48.21 \$62.01 \$60.08	\$77.54 \$74.62 \$71.72 \$68.81 \$59.76 \$80.44 \$77.54	\$95.01 \$91.13 \$87.24 \$83.36 \$71.29 \$98.88 \$95.01	

Official Request #: 624

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Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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3/6/2024

Contract must be awarded by: 6/4/2024

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Classification Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
=======================================	Apprentice Rates:	========	======	=======	======	
	31-36 months		\$62.01	\$80.44	\$98.88	
	25-30 months		\$60.08	\$77.54	\$95.01	
	19-24 months		\$58.13	\$74.62	\$91.13	
	13-18 months		\$56.19	\$71.72	\$87.24	
	7-12 months		\$54.25	\$68.81	\$83.36	
	0-6 months		\$48.21	\$59.76	\$71.29	
	Apprentice Rates:					
	31-36 months		\$62.01	\$80.44	\$98.88	
	25-30 months		\$60.08	\$77.54	\$95.01	
	19-24 months		\$58.13	\$74.62	\$91.13	
	13-18 months		\$56.19	\$71.72	\$87.24	
	7-12 months		\$54.25	\$68.81	\$83.36	
	0-6 months		\$48.21	\$59.76	\$71.29	
	Apprentice Rates:					
	31-36 months		\$62.01	\$80.44	\$98.88	
	25-30 months		\$60.08	\$77.54	\$95.01	
	19-24 months		\$58.13	\$74.62	\$91.13	
	13-18 months		\$56.19	\$71.72	\$87.24	
	7-12 months		\$54.25	\$68.81	\$83.36	
	0-6 months		\$48.21	\$59.76	\$71.29	
perating Engineer - Marine	Construction	~~~~~	~~~~~	~~~~~		~~~~~~
	~~~~~~~~~~	~~~~~~~~ 12/16/2021	~~~~~	~~~~~	~~~~~	~~~~~~~
GLF D Diver/Wet Tender/Tender/Ro	v Pilot/Rov Tender	12/10/2021	\$52.81	\$78.57	\$104.32	HHHHHHDN
		1/7/2022				
Diver/Wet Tender, Engineer ( make up day a			\$78.97	\$102.47	\$125.97	X
	all Great Lakes, islands therein, & co	nnecting & tribut	tary waters			

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Classification  Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
GLF-2 Crane/Backhoe Operator, 70 ton or over Tug Operator, Mecha Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge)		\$77.47	\$100.22	\$122.97	Х Х Н Н Н Н Н D Y
make up day allowed					
<u>Subdivision of county</u> All Great Lakes, islands therein, & co	nnecting & tribut	tary waters	3		
GLF-2B	1/7/2022				
Friction, Lattice Boom or Crane License Certification30		\$78.97	\$102.47	\$125.97	X $X$ $H$ $H$ $H$ $H$ $D$ $Y$
make up day allowed					
Subdivision of county All Great Lakes, islands, therein, & co	onnecting & tribu	itary water	s		
GLF-3	1/7/2022				
Deck Equipment Operator, Machineryman, Maintenance of Cra ton capacity) or Backhoe (115,000 lbs or more), Tug/Launch C Loader, Dozer on Barge, Deck Machinery		\$72.92	\$93.40	\$113.87	X
make up day allowed					
Subdivision of county All Great Lakes, islands therein, & co	nnecting & tribut	tary waters	5		
GLF-4	1/7/2022				
Deck Equipment Operator, (Machineryman/Fireman), (4 equip or more), Off Road Trucks, Deck Hand, Tug Engineer, & Crane Maintenance 50 ton capacity and under or Backhoe 115,000 lb Assistant Tug Operator  make up day allowed	2	\$66.72	\$84.10	\$101.47	X
Subdivision of county All Great Lakes, islands therein, & co	nnecting & tribut	arv waters			
	•	•			
Operating Engineer Steel Work	~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
EN-324-ef	8/18/2023	~~~~~	~~~~~	~~~~~	~~~~~~~
Extended boom forklift over 5,000 lb capacity, 1 Drum Hoist		\$69.61	\$88.88	\$108.15	$H\;H\;D\;H\;H\;H\;D\;D\;Y$
comment make up day allowed 4 10s allowed M-Th with Friday makeup day because of bad weat	her				
EN-324-SW120	8/18/2023				
Crane w/ 120' boom or longer		\$74.14	\$95.24	\$116.33	H $H$ $D$ $H$ $H$ $H$ $D$ $D$ $Y$
comment make up day allowed 4 10s allowed M-Th with Friday makeup day because of bad weat	her				
EN-324-SW120-O	8/18/2023				
Crane w/ 120' boom or longer w/ Oiler		\$75.01	\$96.54	\$118.07	HHDHHHDDY
comment make up day allowed 4 10s allowed M-Th with Friday makeup day because of bad weat	her				
Official Request #: 624				Officia	al Rate Schedule

Requestor: Monroe Public Schools

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Project Number: 24101 / 24102 / 24103 County: Monroe County

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification		<b>a.</b>			• 4
Vame Description	Last Updated	Straight	Time and a Half	Double Time	Overtime Provision
EN-324-SW140	8/18/2023				
Crane w/ 140' boom or longer		\$75.19	\$96.80	\$118.41	HHDHHHDDY
comment make up day allowed					
4 10s allowed M-Th with Friday makeup day because of bad weather					
EN-324-SW140-O	8/18/2023				
Crane w/ 140' boom or longer W/ Oiler		\$76.19	\$98.24	\$120.28	$H\ H\ D\ H\ H\ H\ D\ D\ Y$
comment make up day allowed					
4 10s allowed M-Th with Friday makeup day because of bad weather					
EN-324-SW220	8/18/2023				
Boom & Jib 220' or longer		\$76.46	\$98.62	\$120.78	H $H$ $D$ $H$ $H$ $H$ $D$ $D$ $Y$
comment make up day allowed					
4 10s allowed M-Th with Friday makeup day because of bad weather					
EN-324-SW220-O	8/18/2023				
Crane w/ 220' boom or longer w/ Oiler		\$74.01	\$95.11	\$116.20	HHDHHHDDY
comment make up day allowed					
4 10s allowed M-Th with Friday makeup day because of bad weather					
EN-324-SW300	8/18/2023				
Boom & Jib 300' or longer		\$76.96	\$99.34	\$121.72	H $H$ $D$ $H$ $H$ $H$ $D$ $D$ $Y$
comment make up day allowed					
4 10s allowed M-Th with Friday makeup day because of bad weather					
EN-324-SW300-O	8/18/2023				
Crane w/ 300' boom or longer w/ Oiler		\$77.96	\$100.78	\$123.59	H $H$ $D$ $H$ $H$ $H$ $D$ $D$ $Y$
comment make up day allowed					
4 10s allowed M-Th with Friday makeup day because of bad weather					
	8/18/2023				
Boom & Jib 400' or longer		\$78.46	\$101.49	\$124.52	H $H$ $D$ $H$ $H$ $H$ $D$ $D$ $Y$
comment make up day allowed					
4 10s allowed M-Th with Friday makeup day because of bad weather					
EN-324-SW400-O	8/18/2023				
Crane w/ 400' boom or longer w/ Oiler		\$79.46	\$102.93	\$126.39	H $H$ $D$ $H$ $H$ $H$ $D$ $D$ $Y$
comment make up day allowed					
4 10s allowed M-Th with Friday makeup day because of bad weather					

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification  Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
:=====================================		8/18/2023			======	
Crane Operator, Job Mechanic, 3 Drur	n Hoist & Excavator		\$73.65	\$94.59	\$115.53	HHDHHHDDY
	Apprentice Rates:					
	0-999 hours		\$59.16	\$76.02	\$92.88	
	1,000-1,999 hours		\$61.56	\$79.63	\$97.68	
	2,000-2,999 hours		\$63.96	\$83.22	\$102.48	
	3,000-3,999 hours		\$66.38	\$84.18	\$101.98	
	4,000-4,999 hours		\$68.78	\$90.46	\$112.12	
	5,000 hours		\$71.20	\$91.09	\$110.99	
comment make up day allowed 4 10s allowed M-Th with Friday makeup	o day because of bad weather					
EN-324-SWCO-O		8/18/2023				
Crane Operator w/ Oiler			\$74.65	\$96.03	\$117.40	HHDHHHDDY
comment make up day allowed 4 10s allowed M-Th with Friday makeup	day because of bad weather					
EN-324-SWCW		12/10/2021				
Compressor or Welder Operator			\$37.03	\$49.48	\$61.92	HHDHHHDDY
comment make up day allowed 4 10s allowed M-Th with Friday makeup	o day because of bad weather					
EN-324-SWHO		8/18/2023				
Hoisting Operator, 2 Drum Hoist, & Ru	bber Tire Backhoe		\$73.01	\$93.67	\$114.33	HHDHHHDDY
comment make up day allowed 4 10s allowed M-Th with Friday makeup	o day because of bad weather					
EN-324-SWO		12/10/2021				
Oiler			\$53.42	\$67.61	\$81.80	HHDHHHDDY
comment make up day allowed 4 10s allowed M-Th with Friday makeup	o day because of bad weather					
EN-324-SWTD50		8/18/2023				
Tower Crane & Derrick where work is !	50' or more		\$74.74	\$96.16	\$117.57	HHDHHHDDY
comment make up day allowed 4 10s allowed M-Th with Friday makeup	o day because of bad weather					
EN-324-SWTD50-O		8/18/2023				
Tower Crane & Derrick 50' or more w/	Oiler		\$75.84	\$97.69	\$119.54	HHDHHHDDY
comment make up day allowed 4 10s allowed M-Th with Friday makeup	o day because of bad weather					
					Offici	======================================

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024

Contract must be awarded by: 6/4/2024

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me Description		Last Updated	Hourly	Time and a Half	Double Time	Overtime Provision
perating Engineer Undergro		~~~~~~	~~~~~	~~~~~	~~~~	~~~~~~
	~~~~~~~~~~~	12/12/2023	~~~~~	~~~~~	~~~~~	~~~~~~~
lass I Equipment			\$66.39	\$84.19	\$101.98	X X X X X X X D Y
	Apprentice Rates:					
	0-999 hours		\$52.76	\$67.08	\$81.41	
	1,000-1,999 hours		\$54.80	\$70.14	\$85.49	
	2,000-2,999 hours		\$56.85	\$73.22	\$89.59	
	3,000-3,999 hours		\$58.90	\$76.30	\$93.69	
	4,000-4,999 hours		\$60.94	\$79.35	\$97.77	
	5,000-5,999 hours		\$62.99	\$82.43	\$101.87	
	Apprentice Rates:					
	0-999 hours		\$52.76	\$67.08	\$81.41	
	1,000-1,999 hours		\$54.80	\$70.14	\$85.49	
	2,000-2,999 hours		\$56.85	\$73.22	\$89.59	
	3,000-3,999 hours		\$58.90	\$76.30	\$93.69	
	4,000-4,999 hours		\$60.94	\$79.35	\$97.77	
	5,000-5,999 hours		\$62.99		\$101.87	
N-324A1-UC2 lass II Equipment		12/12/2023	\$61.68	\$77.42	\$93.16	$X\;X\;X\;X\;X\;X\;X\;X\;$
		12/12/2023				
lass III Equipment			\$60.93	\$76.35	\$91.77	X
N-324A1-UC4		12/12/2023				
lass IV Equipment			\$60.36	\$75.54	\$90.71	XXXXXXXXX

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024

Contract must be awarded by: 6/4/2024

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me Description	Updated	Hourly	Time and a Half	Double Time	Overtime Provision
inter	.~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12/9/2021	~~~~~	~~~~~	~~~~~	~~~~~~~
ainter		\$50.12	\$64.80	\$79.73	H $H$ $H$ $H$ $H$ $H$ $H$ $D$ $Y$
Apprentice Rates:					
1st period		\$35.19	\$42.41	\$49.87	
2nd period		\$38.18	\$46.89	\$55.85	
3rd period		\$41.16	\$51.36	\$61.81	
4th period		\$45.64	\$58.08	\$70.77	
e and Manhole Rehab	.~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4/17/2015	~~~~~	~~~~~	~~~~~	~~~~~~~
eneral Laborer for rehab work or normal cleaning and cctv v an, scaffold man, CCTV assistant, jetter-vac assistant	vork-top	\$28.20	\$38.20		H H H H H H H N
	4/17/2015				
ap cutter/CCTV Tech/Grout Equipment Operator: unit driver perator of CCTV; grouting equipment and tap cutting equipment		\$32.70	\$44.95		ннннннн
	4/17/2015				
CTV Technician/Combo Unit Operator: unit driver and opera nit or combo unit in connection with normal cleaning and tel		\$31.45	\$43.07		ннннннн
	4/17/2015				
oiler Operator: unit driver and operator of steam/water hea I ancillary equipment associated	ter units and	\$33.20	\$45.70		H H H H H H H N
	4/17/2015				
ombo Unit driver & Jetter-Vac Operator		\$33.20	\$45.70		H H H H H H H N
	4/17/2015				
pe Bursting & Slip-lining Equipment Operator		\$34.20	\$47.20		H H H H H H H N

Official Request #: 624

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Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification Iame Description		Last Updated ======	Hourly	Time and a Half	Double Time	Overtime Provision =========
	~~~~~~~~~~~	~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
	~~~~~~~~~~~~~~~	11/19/2021	~~~~~	~~~~~	~~~~~	~~~~~~~~
Plasterer			\$51.79	\$66.91	\$82.02	X X H X X X H D N
	Apprentice Rates:					
	1st 6 months		\$34.70	\$43.77	\$52.84	
	2nd 6 months		\$36.21	\$46.04	\$55.86	
	3rd 6 months		\$37.72	\$48.30	\$58.88	
	4th 6 months		\$39.23	\$50.56	\$61.90	
	5th 6 months		\$40.74	\$52.83	\$64.92	
	6th 6 months		\$42.26	\$55.11	\$67.96	
	7th 6 months		\$43.77	\$57.38	\$70.98	
	8th 6 months		\$45.28	\$59.64	\$74.00	
-	~~~~~~~~~~	~~~~~~	~~~~~	~~~~	~~~~~	~~~~~~~
		11/16/2021	~~~~~		~~~~~~ ~~~~~~	~~~~~~~~~
			**************************************	\$93.89	\$125.18	
	Apprentice Rates:		\$62.59 \$38.39	\$93.89	\$125.18	
	Apprentice Rates: 1st period			\$57.59	\$76.78	
	Apprentice Rates: 1st period 2nd period		\$38.39			
	Apprentice Rates: 1st period 2nd period 3rd period		\$38.39 \$42.59	\$57.59 \$63.89	\$76.78 \$85.18	
	Apprentice Rates: 1st period 2nd period		\$38.39 \$42.59 \$44.59	\$57.59 \$63.89 \$66.89	\$76.78 \$85.18 \$89.18	
	Apprentice Rates: 1st period 2nd period 3rd period 4th period		\$38.39 \$42.59 \$44.59 \$46.59	\$57.59 \$63.89 \$66.89 \$69.89	\$76.78 \$85.18 \$89.18 \$93.18 \$97.18	
	Apprentice Rates: 1st period 2nd period 3rd period 4th period 5th period		\$38.39 \$42.59 \$44.59 \$46.59 \$48.59	\$57.59 \$63.89 \$66.89 \$69.89 \$72.89 \$75.89	\$76.78 \$85.18 \$89.18 \$93.18 \$97.18	
	Apprentice Rates: 1st period 2nd period 3rd period 4th period 5th period 6th period		\$38.39 \$42.59 \$44.59 \$46.59 \$48.59 \$50.59	\$57.59 \$63.89 \$66.89 \$69.89 \$72.89 \$75.89 \$78.89	\$76.78 \$85.18 \$89.18 \$93.18 \$97.18 \$101.18	 ~~~~~~~~~~ ~~~~~~~~ Н Н Н Н Н Н Н D N
Plumber, Pipefitter & HVAC PL-671 Plumber, Pipefitter, HVAC-R	Apprentice Rates: 1st period 2nd period 3rd period 4th period 5th period 6th period 7th period		\$38.39 \$42.59 \$44.59 \$46.59 \$48.59 \$50.59 \$52.59	\$57.59 \$63.89 \$66.89 \$69.89 \$72.89 \$75.89 \$78.89 \$81.89	\$76.78 \$85.18 \$89.18 \$93.18 \$97.18 \$101.18	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification ame Description		Last Updated	Hourly	Time and a Half	Double Time	Overtime Provision
esidental wireman	~~~~~~~~~	.~~~~~	~~~~~	~~~~~		~~~~~~~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~	8/7/2023	~~~~~	~~~~~	-~~~~	~~~~~~~
ourneyman Residential Wireman A -			\$68.41	\$90.81	\$113.20	XHHHHHHDY
	Apprentice Rates:		<b>#</b> 20.20	\$48.48	<b>C</b> 4 C 4	
	8th Period		\$32.32	·	\$64.64	
	7th Period		\$30.89	\$46.34	\$61.78	
	6th Period		\$57.40	\$75.31	\$93.23	
	5th Period		\$51.90	\$67.57	\$83.25	
	4th Period		\$46.39	\$59.82	\$73.26	
	3rd Period		\$40.90	\$38.84	\$45.62	
	2nd Period		\$25.59	\$30.65	\$35.71	
	1st Period		\$28.38	\$35.10	\$41.82	
	Apprentice Rates:				•	
	8th Period		\$32.32		\$64.64	
	7th Period		\$30.89	\$46.34	\$61.78	
	6th Period		\$57.40	\$75.31	\$93.23	
	5th Period		\$51.90	\$67.57	\$83.25	
	4th Period		\$46.39	\$59.82	\$73.26	
	3rd Period		\$40.90	\$38.84	\$45.62	
	2nd Period		\$25.59	\$30.65	\$35.71	
	1st Period		\$28.38	\$35.10	\$41.82	
	Apprentice Rates:					
	8th Period		\$32.32	\$48.48	\$64.64	
	7th Period		\$30.89	\$46.34	\$61.78	
	6th Period		\$57.40	\$75.31	\$93.23	
	5th Period		\$51.90	\$67.57	\$83.25	
	4th Period		\$46.39	\$59.82	\$73.26	
	3rd Period		\$40.90	\$38.84	\$45.62	
	0.15.1		\$25.59	\$30.65	\$35.71	
	2nd Period		φ25.59	φ30.03	φ33.7 Ι	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

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<u>Classification</u> ame Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
	Apprentice Rates:		======		=======	=======================================
	8th Period		\$32.32	\$48.48	\$64.64	
	7th Period		\$30.89	\$46.34	\$61.78	
	6th Period		\$57.40	\$75.31	\$93.23	
	5th Period		\$51.90	\$67.57	\$83.25	
	4th Period		\$46.39	\$59.82	\$73.26	
	3rd Period		\$40.90	\$38.84	\$45.62	
	2nd Period		\$25.59	\$30.65	\$35.71	
	1st Period		\$28.38	\$35.10	\$41.82	
	Apprentice Rates:					
	8th Period		\$32.32	\$48.48	\$64.64	
	7th Period		\$30.89	\$46.34	\$61.78	
	6th Period		\$57.40	\$75.31	\$93.23	
	5th Period		\$51.90	\$67.57	\$83.25	
	4th Period		\$46.39	\$59.82	\$73.26	
	3rd Period		\$40.90	\$38.84	\$45.62	
	2nd Period		\$25.59	\$30.65	\$35.71	
	1st Period		\$28.38	\$35.10	\$41.82	
	Apprentice Rates:					
	8th Period		\$32.32	\$48.48	\$64.64	
	7th Period		\$30.89	\$46.34	\$61.78	
	6th Period		\$57.40	\$75.31	\$93.23	
	5th Period		\$51.90	\$67.57	\$83.25	
	4th Period		\$46.39	\$59.82	\$73.26	
	3rd Period		\$40.90	\$38.84	\$45.62	
	2nd Period		\$25.59	\$30.65	\$35.71	
	1st Period		\$28.38	\$35.10	\$41.82	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

3/6/2024 Issue Date:

Contract must be awarded by: 6/4/2024

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Classification  Name Description		Last pdated	Straight Hourly	Time and a Half	Double Time	Provision
		====== ~~~~~	~~~~~	~~~~~	 ·~~~~~	
Roofer 	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
RO-134	9	9/8/2005	\$36.79	\$48.98	¢61.16	HHDXDDDDY
Commercial Roofer	Amprontice Detect		<b>Ф30.79</b>	<b>Ф40.90</b>	φ01.10	ппохооот
	Apprentice Rates:		\$24.61	\$30.70	\$36.80	
	1st period					
	2nd period		\$25.82	\$32.52	\$39.22	
	3rd period		\$27.04	\$34.35	\$41.66	
	4th period		\$28.26	\$36.18	\$44.10	
	5th period		\$29.48	\$38.01	\$46.54	
	6th period		\$30.70	\$39.84	\$48.98	
	7th period		\$31.92	\$41.67	\$51.42	
	8th period		\$33.13	\$43.48	\$53.84	
make up day	/ allowed					
Sewer Relining	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	~~~~	~~~~~	~~~~	~~~~~~
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2/12/2023	~~~~~	~~~~~	~~~~~	~~~~~~~
	sual CCTV system including remote in-gro used in conjunction with CCTV system.	ound	\$52.84	\$69.23	\$85.62	HHHHHHDN
	Apprentice Rates:					
	0-6 months		\$41.58	\$54.66	\$67.74	
	6-12 months		\$45.31	\$60.26	\$75.20	
	12 ter heaters and circulation system; water echanical debris removal systems and tho	2/12/2023 se	\$50.80	\$68.49	\$86.18	H H H H H H D N

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Name Description		Last Updated =======	Hourly	Time and a Half	Double Time	Provision
Sheet Metal Worker	~~~~~~~~~~~	.~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~~
 SHM-33	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	11/22/2021	~~~~~	~~~~~	~~~~~	~~~~~~~
Sheet Metal Worker			\$67.92	\$91.48	\$115.03	HHDHDDDDY
	Apprentice Rates:					
	1st Year		\$31.17	\$41.07	\$50.97	
	2nd Year		\$44.37	\$56.16	\$67.93	
	3rd Year		\$46.57	\$59.45	\$72.33	
	4th Year		\$48.77	\$62.75	\$76.73	
	5th Year		\$55.38	\$72.67	\$89.95	
.~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~	~~~~~	~~~~~	~~~~~~~
Sprinkler Fitter SP 669 Sprinkler Fitter	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	11/16/2021	**************************************	\$78.45		 ннннннн р ү
 SP 669	Apprentice Rates:					
 SP 669						
 SP 669	Apprentice Rates:		\$60.34	\$78.45	\$96.56	
 SP 669	Apprentice Rates: Class 1		\$60.34 \$24.57	\$78.45 \$32.72	\$96.56 \$40.87	
 SP 669	Apprentice Rates: Class 1 Class 2		\$60.34 \$24.57 \$26.38	\$78.45 \$32.72 \$35.43	\$96.56 \$40.87 \$44.49	
 SP 669	Apprentice Rates: Class 1 Class 2 Class 3		\$60.34 \$24.57 \$26.38 \$39.14	\$78.45 \$32.72 \$35.43 \$49.10	\$96.56 \$40.87 \$44.49 \$59.06	
 SP 669	Apprentice Rates: Class 1 Class 2 Class 3 Class 4		\$60.34 \$24.57 \$26.38 \$39.14 \$40.95	\$78.45 \$32.72 \$35.43 \$49.10 \$51.82	\$96.56 \$40.87 \$44.49 \$59.06 \$62.68	
 SP 669	Apprentice Rates: Class 1 Class 2 Class 3 Class 4 Class 5		\$60.34 \$24.57 \$26.38 \$39.14 \$40.95 \$43.01	\$78.45 \$32.72 \$35.43 \$49.10 \$51.82 \$54.78	\$96.56 \$40.87 \$44.49 \$59.06 \$62.68 \$66.55	
 SP 669	Apprentice Rates: Class 1 Class 2 Class 3 Class 4 Class 5 Class 6		\$60.34 \$24.57 \$26.38 \$39.14 \$40.95 \$43.01 \$44.82	\$78.45 \$32.72 \$35.43 \$49.10 \$51.82 \$54.78 \$57.49	\$96.56 \$40.87 \$44.49 \$59.06 \$62.68 \$66.55 \$70.17	
 SP 669	Apprentice Rates: Class 1 Class 2 Class 3 Class 4 Class 5 Class 6 Class 7		\$60.34 \$24.57 \$26.38 \$39.14 \$40.95 \$43.01 \$44.82 \$46.63	\$78.45 \$32.72 \$35.43 \$49.10 \$51.82 \$54.78 \$57.49 \$60.21	\$96.56 \$40.87 \$44.49 \$59.06 \$62.68 \$66.55 \$70.17 \$73.79	
 SP 669	Apprentice Rates: Class 1 Class 2 Class 3 Class 4 Class 5 Class 6 Class 7 Class 8		\$60.34 \$24.57 \$26.38 \$39.14 \$40.95 \$43.01 \$44.82 \$46.63 \$48.45	\$78.45 \$32.72 \$35.43 \$49.10 \$51.82 \$54.78 \$57.49 \$60.21 \$62.94	\$96.56 \$40.87 \$44.49 \$59.06 \$62.68 \$66.55 \$70.17 \$73.79 \$77.43	

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<u>Classification</u> Name Description		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
~~~~~~~~~~~~~~~~~~~			 ~~~~~~			
File, Marble and Terrazzo	~~~~~~~~~~~~~					
BR2-F	~~~~~~~~~~	12/3/2021	*	*		~~~~~~~~~~~
Tile, Marble and Terrazzo Finisher			\$51.67	\$66.51	\$81.34	HHDHDDDDY
	Apprentice Rates: 1st Period		\$34.76	\$44.41	\$54.05	
	2nd Period		\$36.24	\$46.63	\$57.01	
	3rd Period					
	4th Period		\$37.72	\$48.85	\$59.97	
			\$39.21	\$51.08	\$62.95	
	5th Period		\$40.69	\$53.30	\$65.91	
	6th Period		\$42.17	\$55.52	\$68.87	
BR2-TMT		12/3/2021				
Tile, Marble Terrazzo Setter			\$58.80	\$77.20	\$95.60	HHDHDDDDY
	Apprentice Rates:					
	1st Period		\$38.77	\$49.81	\$60.85	
	2nd Period		\$40.61	\$52.57	\$64.53	
	3rd Period		\$42.45	\$55.33	\$68.21	
	4th Period		\$44.29	\$58.09	\$71.89	
	5th Period		\$46.13	\$60.85	\$75.57	
	6th Period		\$47.97	\$63.61	\$79.25	
	7th Period		\$49.81	\$66.37	\$82.93	
	8th Period		\$51.65	\$69.13	\$86.61	
Tower Technician		~~~~~~	~~~~~	~~~~~	~~~~~	~~~~~~
IBEW 876 & IBEW 17 - Roadway	~~~~~~~~~~~	12/14/2023	~~~~~	~~~~~	~~~~~	~~~~~~~

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Name 	sification  Description	=======================================	Last Updated	Hourly	Time and a Half	Double Time	Overtime Provision
ruck D	~~~~~~~~~~ Priver		~~~~~	~~~~~	~~~~~	.~~~~	~~~~~~
cubic ya		y or less (except dump trucks axle trucks, transit mix and oms and low boys)		\$53.95	\$70.30	\$86.64	
TM-RB1A of all tr	ucks of 8 cubic yard capacity	or over semi, tractor trailer	8/18/2023	\$54.10	\$70.52	\$86.94	н н н н н н н р ү
TM-RB1B on eucli	id type equipment, Pole drie	lowboy doubles fuel hus	8/18/2023 water	\$54.20	\$69.70	\$85.19	нннннн н р у
on caci	make up day allowed	, lowboy, doubles, fuel, bus,	Water	• • • •			
	make up day allowed	an a yr)	~~~~~	~~~~~	~~~~	······································	
	make up day allowed	~~~~~~~	~~~~~	\$30.78	\$41.29	\$51.79	н н н х х х х р y
	make up day allowed	an a yr)	~~~~~~	~~~~~	\$41.29	\$51.79	н н н х х х х р ү
	make up day allowed	an a yr)	~~~~~~	~~~~~	\$41.29 \$49.90	\$51.79 \$64.18	н н н х х х х р ү
	make up day allowed	an a yr) Apprentice Rates:	~~~~~~	\$30.78			
	make up day allowed	Apprentice Rates: Lineman (6th - 6 months)	~~~~~~	\$30.78 \$35.61	\$49.90	\$64.18	
	make up day allowed	Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months)	~~~~~~	\$30.78 \$35.61 \$33.06	\$49.90 \$46.07	\$64.18 \$59.08	н н н х х х х р ү
 	make up day allowed	Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months) Lineman (4th - 6 months)	~~~~~~	\$30.78 \$35.61 \$33.06 \$30.53	\$49.90 \$46.07 \$42.27	\$64.18 \$59.08 \$54.02	н н н х х х х D Y

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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Issue Date: 3/6/2024 Contract must be awarded by: 6/4/2024

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Classification Name Descrip			Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
·=====================================	~~~~~~~~			 ~~~~~~	 ~~~~~~		
Truck Driver / G	Groundman (ov	er 1 yr) ~~~~~~~~~					
IBEW 876 & IBEW 17 Teledata		~~~~~~~~~~~~~~~~~~	12/14/2023	~~~~~	~~~~~	.~~~~	~~~~~~~~
Toloudia				\$37.40	\$50.84	\$64.27	H $H$ $H$ $X$ $X$ $X$ $X$ $D$ $Y$
		Apprentice Rates:					
		Lineman (6th - 6 months)		\$35.61	\$49.90	\$64.18	
		Lineman (5th - 6 months)		\$33.06	\$46.07	\$59.08	
		Lineman (4th - 6 months)		\$30.53	\$42.27	\$54.02	
		Lineman (3rd - 6 months)		\$27.99	\$38.47	\$48.94	
				\$25.45	\$34.66	\$43.86	
		Lineman (2nd - 6 months)		<b>+</b>			
		Lineman (2nd - 6 months) Lineman (1st - 6 months)		\$22.91	\$30.85	\$38.78	
-~~~~~~~~ IBEW 876 & IBEW 17	~~~~~~	,	12/14/2023	\$22.91			~~~~~~~~~~~~
-~~~~~~~~ IBEW 876 & IBEW 17	~~~~~~	Lineman (1st - 6 months)		\$22.91	\$30.85	.~~~~	
-~~~~~~~~ IBEW 876 & IBEW 17	~~~~~~	Lineman (1st - 6 months)		\$22.91	\$30.85	.~~~~	н н н х х х х д у
.~~~~~~~~ IBEW 876 & IBEW 17	~~~~~~	Lineman (1st - 6 months)		\$22.91	\$30.85	.~~~~	
TV Terminator	~~~~~~	Lineman (1st - 6 months)  Apprentice Rates:		\$22.91	\$30.85	\$66.87	
-~~~~~~~~ IBEW 876 & IBEW 17	~~~~~~	Apprentice Rates: Lineman (6th - 6 months)		\$22.91 	\$30.85 	\$66.87	
-~~~~~~~~ IBEW 876 & IBEW 17	~~~~~~	Apprentice Rates: Lineman (6th - 6 months) Lineman (5th - 6 months)		\$22.91 	\$30.85 	\$66.87 \$64.18 \$59.08	
-~~~~~~~~ IBEW 876 & IBEW 17	~~~~~~	Apprentice Rates: Lineman (5th - 6 months) Lineman (4th - 6 months) Lineman (4th - 6 months)		\$22.91 \$38.78 \$35.61 \$33.06 \$30.53	\$30.85 \$52.83 \$49.90 \$46.07 \$42.27	\$66.87 \$64.18 \$59.08 \$54.02	

Official Request #: 624

Requestor: Monroe Public Schools

Project Description: Kitchen Alterations & Related Work

Project Number: 24101 / 24102 / 24103 County: Monroe County Official Rate Schedule

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

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# SECTION 012300 ALTERNATES

# **PART 1 GENERAL**

### 1.01 SECTION INCLUDES

A. Description of Alternates - work that is to be deducted or added to the Base Proposal for various items, including all labor and materials herein described.

## 1.02 RELATED REQUIREMENTS

- A. See other related Divisions for the scope of work, type of materials, etc., if not specified herein.
- B. Instructions to Bidders: Instructions for preparation of pricing for Alternates.
- C. Proposal Form(s).
- D. The Alternate work herein is bound by the same conditions and requirements in the main sections of these specifications as governs all other trade divisions. Included shall be Index, Advertisement for Bids, Instructions to Bidders, Bid Proposal Form, General and Special Conditions, etc.
- E. Description(s) of Alternates in this section are not meant to be all inclusive, but give a general understanding of the work to be included. Reference the drawings and other sections of specifications for all work included.

# 1.03 ACCEPTANCE OF ALTERNATES

- A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.
- B. The order of the Alternates are not listed in priority. The number of Alternates accepted will be determined by the Owner that serves their best interest.
- C. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

## 1.04 SCHEDULE OF ALTERNATES

- A. ALTERNATE #1 (Custer II Elementary Install Floor Drain)
  - 1. State on the Bid Proposal Form the amount to be added to the Base Bid.
  - 2. Work at **Custer II Elementary School** includes, but is not limited to the following:
    - a. Examine and Prep all areas indicated on the drawings and as required for the following work, notifying the Architect and General Contractor of any issues prior to starting.
    - b. Remove flooring and saw-cut slab as indicated on the drawings to install new drain, patch/repair slab and flooring and re-install existing Prep-Sink.
    - c. Install new floor drain and associated piping as indicated on the plumbing drawings.
    - d. Drawings also refer to this work as Alternate P-1.
- B. <u>ALTERNATE #2</u> (Raisinville Elementary Add Power Option to Overhead Doors)
  - 1. State on the Bid Proposal Form the amount to be added to the Base Bid.
  - 2. Work at Raisinville Elementary School includes, but is not limited to the following:
    - Examine and Prep all areas indicated on the drawings and as required for the following work, notifying the Architect and General Contractor of any issues prior to starting.
    - b. Include power option and motors for the two new Overhead Doors being installed at the modified serving counter.
    - c. Drawings also refer to this work as Alternate E-1.

PART 2 PRODUCTS - NOT USED PART 3 EXECUTION - NOT USED

**END OF SECTION** 

Alternates 012300 - 1

# SECTION 012500 SUBSTITUTION PROCEDURES

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

A. Procedural requirements for proposed substitutions.

# 1.02 DEFINITIONS

A. Substitutions: Changes from Contract Documents requirements proposed by Contractor to materials, products, assemblies, and equipment.

The proposal shall be based ONLY upon the furnishing of all materials and/or equipment and accessories as specified by manufacturer or trade names throughout the various specification headings. Where the phrase "approved substitute" and/or "approved equal" appears, the Contractor may, if he desires, request approval from the Owner and Architect. The acceptance of such substitutes, which the Architect and Owner believe to be in the Owner's best interests, will be made prior to bid opening. If no such substitutions are accepted at that time, the Contractor shall furnish only those materials and/or equipment specifically named. Contractor shall submit all pertinent data, manufacturer's specifications, picture cuts, etc., as required by the Architect/Owner for proper evaluation.

- Substitutions for Cause: Proposed due to changed Project circumstances beyond Contractor's control.
  - a. Unavailability.
  - b. Regulatory changes.
- 2. Substitutions for Convenience: Proposed due to possibility of offering substantial advantage to the Project.
  - Substitution requests offering advantages solely to the Contractor will not be considered.

# **PART 2 PRODUCTS - NOT USED**

# PART 3 EXECUTION

## 3.01 GENERAL REQUIREMENTS

- A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
  - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
  - 2. Agrees to provide the same warranty for the substitution as for the specified product.
  - 3. Agrees to provide same or equivalent maintenance service and source of replacement parts, as applicable.
  - 4. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to Owner.
  - 5. Waives claims for additional costs or time extension that may subsequently become apparent.
  - 6. Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.
- B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
  - 1. Note explicitly any non-compliant characteristics.
- C. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.
  - 1. No specific form is required. Contractor's Substitution Request documentation must include the following:
    - a. Project Information:
      - Official project name and number, and any additional required identifiers established in Contract Documents.

Substitution Procedures 012500 - 1

- 2) Owner's, Architect's, and Contractor's names.
- b. Substitution Request Information:
  - 1) Indication of whether the substitution is for cause or convenience.
  - 2) Issue date
  - 3) Reference to particular Contract Document(s) specification section number, title, and article/paragraph(s).
  - 4) Description of Substitution.
  - 5) Reason why the specified item cannot be provided.
  - 6) Differences between proposed substitution and specified item.
  - 7) Description of how proposed substitution affects other parts of work.
- c. Attached Comparative Data: Provide point-by-point, side-by-side comparison addressing essential attributes specified, as appropriate and relevant for the item:
  - 1) Physical characteristics.
  - 2) In-service performance.
  - 3) Expected durability.
  - 4) Visual effect.
  - 5) Warranties.
  - Other salient features and requirements.
  - 7) Include, as appropriate or requested, the following types of documentation:
    - (a) Product Data:
    - (b) Samples.
    - (c) Certificates, test, reports or similar qualification data.
    - (d) Drawings, when required to show impact on adjacent construction elements.
- d. Impact of Substitution:
  - 1) Savings to Owner for accepting substitution.
  - 2) Change to Contract Time due to accepting substitution.
- D. Limit each request to a single proposed substitution item.
  - 1. Submit an electronic document, combining the request form with supporting data into single document.

# 3.02 SUBSTITUTION PROCEDURES DURING PROCUREMENT

- A. Submittal Time Restrictions:
  - 1. Owner will consider requests for substitutions only if submitted at least 10 days prior to the date for receipt of bids.

### 3.03 SUBSTITUTION PROCEDURES DURING CONSTRUCTION

- A. Submit request for Substitution for Cause within 14 days of discovery of need for substitution, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
- B. Submit request for Substitution for Convenience immediately upon discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
  - 1. In addition to meeting general documentation requirements, document how the requested substitution benefits the Owner through cost savings, time savings, greater energy conservation, or in other specific ways.
  - 2. Document means of coordinating of substitution item with other portions of the work, including work by affected subcontractors.
  - 3. Bear the costs engendered by proposed substitution of:
    - a. Owner's compensation to the Architect for any required redesign, time spent processing and evaluating the request.
    - b. Other construction by Owner.
    - c. Other unanticipated project considerations.
- C. Substitutions will not be considered under one or more of the following circumstances:

Substitution Procedures 012500 - 2

- 1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
- 2. Without a separate written request.
- 3. When acceptance will require revisions to Contract Documents.

# 3.04 RESOLUTION

- A. Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.
- B. Architect will notify Contractor in writing of decision to accept or reject request.
  - 1. Architect's decision following review of proposed substitution will be noted on the submitted form.

# 3.05 ACCEPTANCE

A. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.

# **END OF SECTION**

Substitution Procedures 012500 - 3

# SECTION 013000 ADMINISTRATIVE REQUIREMENTS

### **PART 1 GENERAL**

### 1.01 SECTION INCLUDES

- A. General administrative requirements.
- B. Electronic document submittal.
- C. Preconstruction meeting.
- D. Progress meetings.
- E. Construction progress schedule.
- F. Contractor's daily reports.
- G. Progress photographs.
- H. Requests for Interpretation (RFI) procedures.
- I. Submittal procedures.

### 1.02 RELATED REQUIREMENTS

A. Section 016000 - Product Requirements: General product requirements.

# 1.03 GENERAL ADMINISTRATIVE REQUIREMENTS

A. Comply with requirements of Section 017000 - Execution and Closeout Requirements for coordination of execution of administrative tasks with timing of construction activities.

# **PART 2 PRODUCTS - NOT USED**

### **PART 3 EXECUTION**

#### 3.01 ELECTRONIC DOCUMENT SUBMITTAL

- A. All documents transmitted for purposes of administration of the contract are to be in electronic (PDF, MS Word, or MS Excel) format, as appropriate to the document, and transmitted via email.
  - Besides submittals for review, information, and closeout, this procedure applies to Requests for Interpretation (RFIs), progress documentation, contract modification documents (e.g. supplementary instructions, change proposals, change orders), applications for payment, field reports and meeting minutes, Contractor's correction punchlist, and any other document any participant wishes to make part of the project record.
  - 2. It is Contractor's responsibility to submit documents in allowable format.
  - 3. Contractor, Subcontractors, Suppliers, Owner, Architect, Architect's consultants, and any others who are part of the Electronic Document Submittal process are to follow this process.
  - 4. Users of the service need an email address, internet access, and PDF review software that includes ability to mark up and apply electronic stamps (such as Adobe Acrobat, www.adobe.com, or Bluebeam PDF Revu, www.bluebeam.com).
  - 5. Paper document transmittals will not be reviewed.
  - 6. All other specified submittal and document transmission procedures apply, except that electronic document requirements do not apply to samples or color selection charts.
- B. Cost: Any cost for this submital process is to be covered by each user.

## 3.02 PRECONSTRUCTION MEETING

A. Architect will schedule a meeting after Notice of Award to review all schedules, purchase orders, and details of the work. This must be done before any physical work begins - estimated time is 2-3 weeks after contract award. Invited to attend are the Prime Contractors, Owner's Representatives and the Architect/Engineer. Also, the Contractor shall have present, his Foreman, or Superintendent who will be in charge of the job and any Sub-Contractors that are deemed major contributions to the work.

# B. Agenda:

- 1. Execution of Owner-Contractor Agreement.
- 2. Submission of executed bonds and insurance certificates.
- 3. Distribution of Contract Documents.
- 4. Designation of personnel representing the parties to Contract.
- 5. Contractor to have the following information for distribution at this meeting:
  - a. Progress Schedule Weekly bar graph of the anticipated progress of work.
  - b. List of all Suppliers, Sub-Contractors, with phone numbers and addresses.
  - c. Schedule of Payment Values
  - List of all shop drawings to be submitted. Include spec data sheets, color samples, picture cuts, samples, etc. (See Shop Drawing Schedule at end of Instructions to Bidders.)
  - e. Copies of purchase orders and written confirmation from Supplier/Sub-Contractor.
  - f. Permit applications, or copies of permits, or submit a written letter to the Architect with date, inspector's name and phone number from the Governing Building Authority stating that permits will not be required.
- 6. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
- C. Architect will record minutes and distribute copies within two days after meeting to participants, Contractor, Owner, participants, and those affected by decisions made.

### 3.03 PROGRESS MEETINGS

- Schedule and administer meetings throughout progress of the work at maximum weekly intervals.
- B. Attendance Required:
  - Contractor.
  - 2. Owner.
  - 3. Architect.
  - 4. Contractor's superintendent.
  - 5. Major subcontractors.

# C. Agenda:

- 1. Review minutes of previous meetings.
- Review of work progress.
- 3. Field observations, problems, and decisions.
- 4. Identification of problems that impede, or will impede, planned progress.
- 5. Review of submittals schedule and status of submittals.
- 6. Review of RFIs log and status of responses.
- 7. Review of off-site fabrication and delivery schedules.
- 8. Maintenance of progress schedule.
- 9. Corrective measures to regain projected schedules.
- 10. Planned progress during succeeding work period.
- 11. Maintenance of quality and work standards.
- 12. Effect of proposed changes on progress schedule and coordination.
- 13. Other business relating to work.
- D. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

# 3.04 CONSTRUCTION PROGRESS SCHEDULE

- A. Within 10 days after date of the Agreement, submit preliminary schedule defining planned operations for the first 60 days of work, with a general outline for remainder of work.
- B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.
- C. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.

- Include written certification that major contractors have reviewed and accepted proposed schedule.
- D. Within 10 days after joint review, submit complete schedule.
- E. Submit updated schedule with each Application for Payment.

### 3.05 DAILY CONSTRUCTION REPORTS

- A. Include only factual information. Do not include personal remarks or opinions regarding operations and/or personnel.
- B. In addition to transmitting electronically at daily interval to Owner and Architect, submit electronically with pay app at monthly intervals.
  - 1. Field reports may be handwritten, scanned, and sent in .pdf format; or from electronic project management software (i.e. Raken, FieldLens, or others).
- C. Prepare a daily construction report recording the following information concerning events at Project site and project progress:
  - Date.
  - 2. High and low temperatures, and general weather conditions.
  - 3. List of subcontractors at Project site.
  - 4. List of separate contractors at Project site.
  - 5. Approximate count of personnel at Project site.
    - a. Include a breakdown for supervisors, laborers, journeymen, equipment operators, and helpers.
  - 6. Material deliveries.
  - 7. Safety, environmental, or industrial relations incidents.
  - 8. Meetings and significant decisions.
  - 9. Stoppages, delays, shortages, and losses. Include comparison between scheduled work activities (in Contractor's most recently updated and published schedule) and actual activities. Explain differences, if any. Note days or periods when no work was in progress and explain the reasons why.
  - 10. Directives and requests of Authority(s) Having Jurisdiction (AHJ).
  - 11. Testing and/or inspections performed.
  - 12. List of verbal instruction given by Owner and/or Architect.
  - 13. Signature of Contractor's authorized representative.
  - 14. Progress Photographs

# 3.06 PROGRESS PHOTOGRAPHS

- Maintain one set of all photographs at project site for reference; same copies as submitted, identified as such.
- B. Photography Type: Digital; electronic files.
- C. In addition to periodic, recurring views, take photographs of each of the following events:
  - 1. Completion of site clearing.
  - 2. Excavations in progress.
  - 3. Foundations in progress and upon completion.
  - 4. Structural framing in progress and upon completion.
  - 5. Enclosure of building, upon completion.
  - 6. Final completion, minimum of ten (10) photos.
- D. Digital Photographs: 24 bit color, minimum resolution of 1024 by 768, in JPG format; provide files unaltered by photo editing software.
  - 1. Delivery Medium: Via email.
  - 2. File Naming: Include project identification, date and time of view, and view identification.
  - 3. PDF File: Assemble all photos into printable pages in PDF format, with 2 to 3 photos per page, each photo labeled with file name; one PDF file per submittal.
  - 4. Photo CD(s): Provide 1 copy including all photos cumulative to date and PDF file(s), with files organized in separate folders by submittal date.

# 3.07 REQUESTS FOR INTERPRETATION (RFI)

- A. Definition: A request seeking one of the following:
  - An interpretation, amplification, or clarification of some requirement of Contract
    Documents arising from inability to determine from them the exact material, process, or
    system to be installed; or when the elements of construction are required to occupy the
    same space (interference); or when an item of work is described differently at more than
    one place in Contract Documents.
  - 2. A resolution to an issue which has arisen due to field conditions and affects design intent.
- B. Whenever possible, request clarifications at the next appropriate project progress meeting, with response entered into meeting minutes, rendering unnecessary the issuance of a formal RFI.
- C. Preparation: Prepare an RFI immediately upon discovery of a need for interpretation of Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
  - 1. Prepare a separate RFI for each specific item.
  - 2. Combine RFI and its attachments into a single electronic file. PDF format is preferred.
- D. Reason for the RFI: Prior to initiation of an RFI, carefully study all Contract Documents to confirm that information sufficient for their interpretation is definitely not included.
  - 1. Include in each request Contractor's signature attesting to good faith effort to determine from Contract Documents information requiring interpretation.
  - 2. Unacceptable Uses for RFIs: Do not use RFIs to request the following::
    - a. Approval of submittals (use procedures specified elsewhere in this section).
    - b. Approval of substitutions (see Section 016000 Product Requirements)
    - c. Changes that entail change in Contract Time and Contract Sum (comply with provisions of the Conditions of the Contract).
    - d. Different methods of performing work than those indicated in the Contract Drawings and Specifications (comply with provisions of the Conditions of the Contract).
  - 3. Improper RFIs: Requests not prepared in compliance with requirements of this section, and/or missing key information required to render an actionable response. They will be returned without a response, with an explanatory notation.
  - 4. Frivolous RFIs: Requests regarding information that is clearly indicated on, or reasonably inferable from, Contract Documents, with no additional input required to clarify the question. They will be returned without a response, with an explanatory notation.
    - The Owner reserves the right to assess the Contractor for the costs (on time-and-materials basis) incurred by the Architect, and any of its consultants, due to processing of such RFIs.
- E. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
  - Official Project name and number, and any additional required identifiers established in Contract Documents.
  - 2. Owner's, Architect's, and Contractor's names.
  - 3. Discrete and consecutive RFI number, and descriptive subject/title.
  - 4. Issue date, and requested reply date.
  - 5. Reference to particular Contract Document(s) requiring additional information/interpretation. Identify pertinent drawing and detail number and/or specification section number, title, and paragraph(s).
  - 6. Annotations: Field dimensions and/or description of conditions which have engendered the request.
  - 7. Contractor's suggested resolution: A written and/or a graphic solution, to scale, is required in cases where clarification of coordination issues is involved, for example; routing, clearances, and/or specific locations of work shown diagrammatically in Contract Documents. If applicable, state the likely impact of the suggested resolution on Contract Time or the Contract Sum.
- F. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.

- 013000 5
- G. RFI Log: Prepare and maintain a tabular log of RFIs for the duration of the project.
  - 1. Indicate current status of every RFI. Update log promptly and on a regular basis.
  - 2. Note dates of when each request is made, and when a response is received.
  - 3. Highlight items requiring priority or expedited response.
  - 4. Highlight items for which a timely response has not been received to date.
- H. Review Time: Architect will respond and return RFIs to Contractor within seven calendar days of receipt. For the purpose of establishing the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following regular working day.
  - 1. Response period may be shortened or lengthened for specific items, subject to mutual agreement, and recorded in a timely manner in progress meeting minutes.
- I. Responses: Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to Owner.
  - Response may include a request for additional information, in which case the original RFI
    will be deemed as having been answered, and an amended one is to be issued forthwith.
    Identify the amended RFI with an R suffix to the original number.
  - 2. Do not extend applicability of a response to specific item to encompass other similar conditions, unless specifically so noted in the response.
  - 3. Upon receipt of a response, promptly review and distribute it to all affected parties, and update the RFI Log.
  - Notify Architect within seven calendar days if an additional or corrected response is required by submitting an amended version of the original RFI, identified as specified above.

# 3.08 SUBMITTAL SCHEDULE

- A. Submit to Architect for review a schedule for submittals in tabular format.
  - Arrange information to include scheduled date for initial submittal, specification number and title, submittal category (for review or for information), description of item of work covered, and role and name of subcontractor.
  - 2. Account for time required for preparation, review, manufacturing, fabrication and delivery when establishing submittal delivery and review deadline dates.
    - a. For assemblies, equipment, systems comprised of multiple components and/or requiring detailed coordination with other work, allow for additional time to make corrections or revisions to initial submittals, and time for their review.

## 3.09 SUBMITTALS FOR PROJECT CLOSEOUT

- A. Submit Correction Punch List for Substantial Completion.
- B. Submit Final Correction Punch List for Substantial Completion.
- C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 017800 Closeout Submittals:
  - 1. Project record documents.
  - 2. Operation and maintenance data.
  - 3. Warranties.
  - 4. Bonds.
  - 5. Other types as indicated.
- D. Submit for Owner's benefit during and after project completion.

## 3.10 PAY REQUEST SUBMITALS

A. Contractor shall file electronic (.pdf) applications for monthly payment installments with the Architect in accordance with the requirements of the General Conditions if a 100% Performance/Labor and Material Bond is a part of this contract. Otherwise no payment shall be made until completion of the work.

- B. Submitted with the first application for payment, the Contractor shall file with the Architect, for his approval, a schedule of values for the various parts of the work aggregating the contract sum. Schedule shall be in such form and in sufficient detail to facilitate issuance of certificates of payment. Schedule shall become the basis for payments and shall accompany all remaining applications for payments.
- C. Pay Request Submittals Must be submitted to the Architect (1) week before it goes to Owner. Owner needs (20) days for processing and issuing check. Note any special dates that request for payments must be received by Owner. Otherwise dates will be established at the pre-construction meeting.
  - 1. AIA Form G-702, signed and notarized.
  - 2. AIA Form G-703, complete with line item breakdowns for General Conditions, Architectural Trades, Mechanical, Electrical, etc.
  - 3. Waiver of Lien from Contractor, each Sub-Contractor, each Major Material Supplier for preceding pay request.
  - 4. Contractors Sworn statement. (See sample Statement at the end of this section. This sample statement is available from architect in electronic format. Any other Sworn statement form shall include, at least, the column information shown on sample.)
  - 5. Labor/Payroll Forms from Contractor and each Sub-Contractor listing each Worker's name, address, social security number, trade classification, rate of pay, hours and week worked. HUD Form WH 347, or Certified Payroll Form is acceptable. Must be signed. This is applicable only if a State Prevailing Wage or Federal Wage Rate Project.
  - 6. Daily Field Reports since previous pay application.
  - 7. Progress Photographs since previous pay application.
- D. Final Pay Request shall include the above items, plus the following items:
  - Final Waivers of Lien from Contractor, all Sub-Contractors, all Major Material Suppliers
  - 2. Contractor's Affidavit of Payment of Debts and Claims, AIA Form G706
  - 3. Consent of Surety Company to Final Payment, AIA Form G707
  - 4. Contractor's written Warranty per 007400 Supplementary and Special Conditions from the date of Final Payment.
  - 5. All written Warranties per Section 007400 Supplementary and Special Conditions of Specifications from Manufacturer's Components/Systems, as noted in other Divisions of these Specifications.
  - "As-Built" Drawings, showing any changes from bidding drawings. Including "site survey" verifying all grades, dimensioning locations of all U.G. valves, clean-outs, taps, etc. per requirements listed elsewhere.
  - 7. Final Approval Certificates from the Governing Building Officials on all Construction Permits obtained, and/or required.
  - Copies of all Maintenance Manuals/Procedures from the Manufacturers of all Pre-Manufactured Components/Systems, plus (1) complete set of all Shop Drawings for project.
  - 9. List containing all Sub-Contractors, their Suppliers and related products with names, address, contact person and phone numbers.

# 3.11 WORKER'S QUALIFICATION SUBMITTALS

- A. Must be submitted electronically within two (2) weeks after receiving notice to proceed. This includes Prime Contractor and all major Sub-Contractors.
  - 1. List with each worker's name, address, social security number, trade classification, years of trade experience and years employed by Contractor. See other Divisions of these specifications that may set ratios of apprentices to journeymen.
  - Conviction Disclosure Form, (copy attached at the end of this Division) and a copy of their driver's license or legal photo I.D. for each worker on the construction site with the name and signature of each worker.

# 3.12 SUBMITTAL REVIEW

A. Submittals for Review: Architect will review each submittal, and approve, or take other appropriate action.

- B. Submittals for Information: Architect will acknowledge receipt and review. See below for actions to be taken.
- C. Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.
  - 1. Notations may be made directly on submitted items and/or listed on appended Submittal Review cover sheet.

# **END OF SECTION**

Name of Project Project Address Client Client Address Arch. Project #							Date:Page 1 of	
Arcii. 1 Toject #			SWOR	N STATEM	ENT			
STATE OF MICH COUNTY OF			)	SS:				
the following:				, [name of per	rson swearing	statement],	being duly sv	vorn, states
the following readescription of the		n			contractor] is Michigan, des			
The following is and withholdings owner or lessee, opposite their name	is due but unp and the amou	paid with who	om the con	tractor has con	tracted for per	formance un	nder the contra	act with the
Name, Address & Phone No. of Subcontractor, Supplier or Laborer	Type of Improvement Furnished	Total Contract Price	Change Orders	Adjusted Contract Price	Subcontractor Paid to Date	Current Request	Retainage	Balance to Complete
TOTALS:								
[NOTE: It is not nece	essarv to list anv	materials furnis	hed by the co	ontractor / subcon	tractor out of his	/her own inven	torv. and which	have not been
purchased specifically	for performing i	the contract.]	·				·	
The contractor ha owes no money for						other than th	iose set torth	above, and
I make this staten owner or lessee of possibility of con- liens by laborers to	of the propert struction liens	y and his/hers, except as s	agents the	set forth in th	y is free from ais statement a	claims of cond except for	or claims of c	iens, or the construction

Name of Project Project Address Client Client Address		Date:Page 2 of 4
Arch. Project #		
SV	VORN STATEMENT	
WARNING TO OWNER OR LESSEE: AN OTHIS SWORN STATEMENT TO AVOID TO WHO HAS PROVIDED A NOTICE OF FURNISHING UNDER SECTION 109 OF THE DESIGNEE OR TO THE OWNER OR	HE CLAIM OF A SUBCONTRACT INISHING OR A LABORER WHO HE CONSTRUCTION LIEN ACT,	OR, SUPPLIER OR LABORER MAY PROVIDE A NOTICE OF 1980 PA 497, MCL 570.1109 TO
IF THIS SWORN STATEMENT IS IN REGISWORN STATEMENT, THE OWNER OR GIVE NOTICE OF ITS RECEIPT, EITHE EACH SUBCONTRACTOR, SUPPLIER, FURNISHING UNDER SECTION 109 OR, I 108 OR 108A, TO EACH SUBCONTRACTOR, STATEMENT. IF A SUBCONTRACTOR, SFURNISHING OR WHO IS NAMED IN TILESSEE, OR DESIGNEE SHALL PROVID WITHIN 10 BUSINESS DAYS AFTER RECI	LESSEE, OR THE OWNER'S OF R IN WRITING, OR BY TELEPH AND LABORER WHO HAS IF A NOTICE OF FURNISHING IS TOR, SUPPLIER, AND LABORI UPPLIER, OR LABORER WHO HE SWORN STATEMENT MAKE OF THE REQUESTER A COPY O	R LESSEE'S DESIGNEE MUST HONE, OR PERSONALLY, TO PROVIDED A NOTICE OF S EXCUSED UNDER SECTION ER NAMED IN THE SWORN IAS PROVIDED A NOTICE OF S A REQUEST, THE OWNER,
Signature of Deponent	Print Name	
WARNING TO DEPONENT: A PERSON W DEFRAUD IS SUBJECT TO CRIMINA CONSTRUCTION LIEN ACT, 1980 PA 497,	L PENALTIES AS PROVIDED	
Subscribed and sworn to before me this	day of, 20	·
Notary Public, County, Print Name: My Commission Expires:	Stata	

Name of Project	Date:
Project Address	Page 3 of 4
Client	Č
Client Address	
Arch Project #	

# **SWORN STATEMENT**

570.1110 Sworn statement by contractor or subcontractor; contents; form; notice of receipt; withholding from contractor or subcontractor amount due subcontractors, suppliers, laborers, or lien claimants; direct payments to lien claimants; notice; itemized statement; reliance on sworn statement to avoid claim; failure of contractor or subcontractor to provide sworn statement to owner or lessee prior to recording claim of lien; giving false sworn statement to owner or lessee as crime; total amount; prior convictions; prohibited use.

Sec. 110.

- (1) A contractor shall provide a sworn statement to the owner or lessee in each of the following circumstances:
- (a) When payment is due to the contractor from the owner or lessee or when the contractor requests payment from the owner or lessee.
- (b) When a demand for the sworn statement has been made by or on behalf of the owner or lessee.
- (2) A subcontractor shall provide a sworn statement to the owner or lessee when a demand for the sworn statement has been made by or on behalf of the owner or lessee and, if applicable, the owner or lessee has complied with the requirements of subsection (6).
- (3) A subcontractor shall provide a sworn statement to the contractor when payment is due to the subcontractor from the contractor or when the subcontractor requests payment from the contractor.
- (4) A sworn statement shall list each subcontractor and supplier with whom the person issuing the sworn statement has contracted relative to the improvement to the real property. The sworn statement shall contain a list of laborers with whom the person issuing the sworn statement has contracted relative to the improvement to the real property and for whom payment for wages or fringe benefits and withholdings are due but unpaid and the itemized amount of such wages or fringe benefits and withholdings.
- (5) The contractor or subcontractor is not required to list in the sworn statement material furnished by the contractor or subcontractor out of his or her own inventory that was not purchased specifically for performing the contract.
- (6) On receipt of a sworn statement regarding an improvement to a residential structure, the owner, lessee, or designee shall give notice of its receipt, either in writing, by telephone, or personally, to each subcontractor, supplier, and laborer who has provided a notice of furnishing under section 109 or, if a notice of furnishing is excused under section 108 or 108a, to each subcontractor, supplier, and laborer named in the sworn statement. If a subcontractor, supplier, or laborer entitled to notice under this subsection requests a copy of the sworn statement, the owner, lessee, or designee shall provide the requester a copy within 10 business days after receiving the request.
- (7) After the contractor or subcontractor provides the sworn statement, the owner or lessee may withhold or, upon written demand from the contractor, shall withhold from the amount due or to become due to the contractor or to the subcontractor for work already performed an amount sufficient to pay all sums due to subcontractors, suppliers, or laborers, as shown by the sworn statement, or due to lien claimants who have provided a notice of furnishing under section 109. From the amount withheld, the owner or lessee may directly pay subcontractors, suppliers, or laborers the amount they are due as shown by the sworn statement. If the contract provides for payments by the owner to the general contractor in the normal course of construction, but the owner elects to pay lien claimants directly under this section, the first time the owner elects to make payment directly to a lien claimant, he or she shall provide at least 5 business days' notice to the general contractor of the intention to make direct payment. Subsequent direct disbursements to lien claimants need not be preceded by the 5-day notice provided in this section unless the owner first returns to the practice of paying all sums to the general contractor. As between the owner or lessee and the contractor or subcontractor, all payments made under this subsection are considered the same as if paid directly to the contractor or subcontractor. If an amount is withheld under this subsection from the contractor or subcontractor, the owner or lessee, upon request, shall prepare and provide to the contractor or subcontractor an itemized statement of the sums withheld. If an amount is paid directly to a lien claimant under this section, the owner or lessee shall, if requested by the contractor or subcontractor or su
- (8) An owner, lessee, designee, mortgagee, or contractor may rely on a sworn statement prepared by a party other than himself or herself to avoid the claim of a subcontractor, supplier, or laborer unless the subcontractor, supplier, or laborer has provided a notice of furnishing as required under section 109 or unless the notice of furnishing is excused under section 108 or 108a.
- (9) If a contractor fails to provide a sworn statement to the owner or lessee before recording the contractor's claim of lien, the contractor's construction lien is not invalid. However, the contractor is not entitled to any payment, and a complaint, cross-claim, or counterclaim may not be filed to enforce the construction lien, until the sworn statement has been provided.

Name of Project	Date:
Project Address	Page 4 of 4
Client	_
Client Address	
Arch Project #	

# **SWORN STATEMENT**

- (10) If a subcontractor fails to provide a sworn statement under subsection (2) to the owner or lessee before recording the subcontractor's claim of lien, the subcontractor's construction lien is valid. However, a complaint, cross-claim, or counterclaim may not be filed to enforce the construction lien until the sworn statement has been provided.
- (11) A contractor or subcontractor who desires to draw money and gives or causes to be given to any owner or lessee a sworn statement required by this section that is false, with intent to defraud, is guilty of a crime as follows:
- a) If the statement involved is for less than \$200.00, the contractor or subcontractor is guilty of a misdemeanor punishable by imprisonment for not more than 93 days or a fine of not more than \$500.00 or 3 times the statement amount, whichever is greater, or both imprisonment and a fine.
- (b) If any of the following apply, the contractor or subcontractor is guilty of a misdemeanor punishable by imprisonment for not more than 1 year or a fine of not more than \$2,000.00 or 3 times the statement amount, whichever is greater, or both imprisonment and a fine:
- (i) The statement involved is for \$200.00 or more but less than \$1,000.00.
- (ii) The statement involved is for less than \$200.00 and the contractor or subcontractor has 1 or more prior convictions for committing or attempting to commit an offense under this act.
- (c) If any of the following apply, the contractor or subcontractor is guilty of a felony punishable by imprisonment for not more than 5 years or a fine of not more than \$10,000.00 or 3 times the statement amount, whichever is greater, or both imprisonment and a fine:
- (i) The statement involved is for \$1,000.00 or more but less than \$20,000.00.
- (ii) The statement involved is for more than \$200.00 but less than \$1,000.00 and the contractor or subcontractor has 1 or more prior convictions for violating or attempting to violate this act. For purposes of this subparagraph, however, a prior conviction does not include a conviction for a violation or attempted violation described in subdivision (a) or (b)(ii).
- (d) If any of the following apply, the contractor or subcontractor is guilty of a felony punishable by imprisonment for not more than 10 years or a fine of not more than \$15,000.00 or 3 times the statement amount, whichever is greater, or both imprisonment and a fine:
- (i) The statement involved is for \$20,000.00 or more.
- (ii) The statement involved is for \$1,000.00 or more but less than \$20,000.00 and the contractor or subcontractor has 2 or more prior convictions for committing or attempting to commit an offense under this act. For purposes of this subparagraph, however, a prior conviction does not include a conviction for a violation or attempted violation described in subdivision (a) or (b)(ii).
- (12) For purposes of subsection (11), statements involved in separate incidents pursuant to a scheme or course of conduct within any 12-month period may be aggregated to determine the total amount involved in the statements.
- (13) If the prosecuting attorney intends to seek an enhanced sentence for a violation under this section based upon the defendant having 1 or more prior convictions, the prosecuting attorney shall include in the complaint and information a statement listing the prior conviction or convictions. The existence of the defendant's prior conviction or convictions shall be determined by the court, without a jury, at sentencing or at a separate hearing for that purpose before sentencing. The existence of a prior conviction may be established by any evidence relevant for that purpose, including, but not limited to, 1 or more of the following:
- (a) A copy of the judgment of conviction.
- (b) A transcript of a prior trial, plea-taking, or sentencing.
- (c) Information contained in a presentence report.
- (d) The defendant's statement.
- (14) If the sentence for a conviction under this section is enhanced by 1 or more convictions, those prior convictions shall not be used to further enhance the sentence for the conviction pursuant to section 10, 11, or 12 of chapter IX of the code of criminal procedure, 1927 PA 175, MCL 769.10, 769.11, and 769.12.

# FIELD REPORT

# CONTRACTOR'S DAILY DATE COPIED TO ARCHITECT _____

(INCLUDE ENTIRE ACTIVITIES PER DAY)

CONTRACTOR:		FIELD REPORT NUMBER:			
PROJECT:			ARCHITECT'S PROJECT NUMBER		
DATE:	TIME	TEMP RANGE:	WORK HOURS:	A.M. TO P.M.	
PERCENT COM	IPLETE:	CO	NFORMANCE WITH SCHEDULE (+,-)		
CREW (LIST SU	UBS, NUMBER OF WO	ORKERS & TRADE CLAS	SIFICATIONS)		
MATERIAL DE	LIVERIES / REMOVA	ALS:			
SITE VISITORS	<b>:</b> :				
HEAVY EQUIP	MENT OR SPECIAL	EQUPMENT USED:			
WORK PERFOI	RMED:				
ITEMS TO VER	RIFY:				
INFORMATION	OR ACTION REQUI	IRED:			
ATTACHMENT	S:				
REPORTED BY	:		PAGE OF	PAGES	

# SECTION 015000 TEMPORARY FACILITIES AND CONTROLS

### **PART 1 GENERAL**

### 1.01 SECTION INCLUDES

- A. Temporary Controls: Barriers and enclosures.
- B. Waste removal facilities and services.

# 1.02 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
- B. Provide barricades and covered walkways required by governing authorities for public rights-of-way and for public access to existing building.
- C. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

# 1.03 INTERIOR ENCLOSURES

- A. Protect all areas adjacent to construction AND common points of travel to and from construction areas. Protection in these areas to include air quality, walk surfaces, equipment, furnishings, building occupants, etc. from dust / debris, excessive noise, wear, or damage of any kind. Prior to any physical work, the contractor must have a written plan for protection approved by the architect.
- B. Provide temporary partitions and ceilings as indicated to separate work areas from Owner-occupied areas, to prevent penetration of dust and moisture into Owner-occupied areas, and to prevent damage to existing materials and equipment.
- C. Construction: Framing and reinforced polyethylene sheet materials with closed joints and sealed edges at intersections with existing surfaces:

# 1.04 WASTE REMOVAL

- A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- B. Provide containers with lids. Remove trash from site periodically.
- C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.
- D. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

PART 2 PRODUCTS - NOT USED PART 3 EXECUTION - NOT USED

**END OF SECTION** 

# SECTION 016000 PRODUCT REQUIREMENTS

### **PART 1 GENERAL**

# 1.01 SECTION INCLUDES

- Re-use of existing products.
- B. Transportation, handling, storage and protection.
- C. Product option requirements.
- D. Substitution limitations.
- E. Maintenance materials, including extra materials, spare parts, tools, and software.

### 1.02 RELATED REQUIREMENTS

A. Section 012500 - Substitution Procedures: Substitutions made during procurement and/or construction phases.

# 1.03 SUBMITTALS

- A. Proposed Products List: Submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
  - 1. Submit within 15 days after date of Agreement.
  - 2. For products specified only by reference standards, list applicable reference standards.
- B. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- C. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- D. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
  - 1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

# **PART 2 PRODUCTS**

# 2.01 EXISTING PRODUCTS

- A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by Contract Documents.
- B. Unforeseen historic items encountered remain the property of the Owner; notify Owner promptly upon discovery; protect, remove, handle, and store as directed by Owner.
- C. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor; remove from site.
- D. Specific Products to be Reused: The reuse of certain materials and equipment already existing on the project site is required.
  - 1. See Section 011000 for list of items required to be salvaged for reuse and relocation.
  - 2. If reuse of other existing materials or equipment is desired, submit substitution request.

# 2.02 NEW PRODUCTS

- A. Provide new products unless specifically required or permitted by Contract Documents.
- B. Use of products having any of the following characteristics is not permitted:
  - Made using or containing CFC's or HCFC's.
  - 2. Containing lead, cadmium, or asbestos.

Product Requirements 016000 - 1

### 2.03 PRODUCT OPTIONS

- Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

### 2.04 MAINTENANCE MATERIALS

- Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
- B. Furnish min. 5% replacement stock materials for all non-painted ceiling, flooring, and wall coverings installed as part of this work.
- C. Deliver to Project site; obtain receipt prior to final payment.

## PART 3 EXECUTION

## 3.01 SUBSTITUTION LIMITATIONS

A. See Section 012500 - Substitution Procedures.

# 3.02 TRANSPORTATION AND HANDLING

- A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.
- B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.
- C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- D. Transport and handle products in accordance with manufacturer's instructions.
- E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.
- H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

### 3.03 STORAGE AND PROTECTION

- A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication. See Section 017419.
  - 1. Structural Loading Limitations: Handle and store products and materials so as not to exceed static and dynamic load-bearing capacities of project floor and roof areas.
- B. Store and protect products in accordance with manufacturers' instructions.
- C. Store with seals and labels intact and legible.
- D. Arrange storage of materials and products to allow for visual inspection for the purpose of determination of quantities, amounts, and unit counts.
- E. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.
- F. For exterior storage of fabricated products, place on sloped supports above ground.
- G. Provide off-site storage and protection when site does not permit on-site storage or protection.

Product Requirements 016000 - 2

- H. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.
- I. Comply with manufacturer's warranty conditions, if any.
- J. Do not store products directly on the ground.
- K. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- L. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- M. Prevent contact with material that may cause corrosion, discoloration, or staining.
- N. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- O. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

### **END OF SECTION**

Product Requirements 016000 - 3

# SECTION 017000 EXECUTION AND CLOSEOUT REQUIREMENTS

### **PART 1 GENERAL**

### 1.01 SECTION INCLUDES

- A. Examination, preparation, and general installation procedures.
- B. Requirements for alterations work, including selective demolition.
- C. Pre-installation meetings.
- D. Cutting and patching.
- E. Surveying for laying out the work.
- F. Cleaning and protection.
- G. Storage of Materials
- H. Starting of systems and equipment.
- I. Demonstration and instruction of Owner personnel.
- J. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.

# 1.02 RELATED REQUIREMENTS

- A. Section 015000 Temporary Facilities and Controls: Temporary exterior enclosures.
- B. Section 015000 Temporary Facilities and Controls: Temporary interior partitions.
- C. Section 078400 Firestopping.
- D. Individual Product Specification Sections:
  - Advance notification to other sections of openings required in work of those sections.
  - 2. Limitations on cutting structural members.

## 1.03 REFERENCE STANDARDS

 A. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2019.

### 1.04 SUBMITTALS

- See Section 013000 Administrative Requirements, for submittal procedures.
- B. Demolition Plan: Submit demolition plan as specified by OSHA and local authorities.
  - 1. Indicate extent of demolition, removal sequence, bracing and shoring, and location and construction of barricades and fences. Include design drawings and calculations for bracing and shoring.
  - 2. Identify demolition firm and submit qualifications.
  - 3. Include a summary of safety procedures.
- C. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
  - 1. Structural integrity of any element of Project.
  - 2. Integrity of weather exposed or moisture resistant element.
  - 3. Efficiency, maintenance, or safety of any operational element.
  - 4. Visual qualities of sight exposed elements.
  - 5. Work of Owner or separate Contractor.
- D. Project Record Documents: Accurately record actual locations of capped and active utilities.

# 1.05 QUALIFICATIONS

- A. For demolition work, employ a firm specializing in the type of work required.
  - 1. Minimum of 5 years of documented experience.
- B. For design of temporary shoring and bracing, employ a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.

# 1.06 PROJECT CONDITIONS

- A. Use of explosives is not permitted.
- B. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.
- Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.
- D. Perform dewatering activities, as required, for the duration of the project.
- E. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
- F. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
- G. Erosion and Sediment Control: Plan and execute work by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.
- H. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.

# 1.07 COORDINATION

- A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. Notify affected utility companies and comply with their requirements.
- C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
- F. Coordinate completion and clean-up of work of separate sections.
- G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

# **PART 2 PRODUCTS**

# 2.01 PATCHING MATERIALS

- A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
- B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.
- C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 016000 Product Requirements.

# **PART 3 EXECUTION**

# 3.01 EXAMINATION

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.

- B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- E. Verify that utility services are available, of the correct characteristics, and in the correct locations.
- F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

# 3.02 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

#### 3.03 PREINSTALLATION MEETINGS

- A. When required in individual specification sections, convene a preinstallation meeting at the site prior to commencing work of the section.
- B. Require attendance of parties directly affecting, or affected by, work of the specific section.
- C. Notify Architect four days in advance of meeting date.
- D. Prepare agenda and preside at meeting:
  - 1. Review conditions of examination, preparation and installation procedures.
  - 2. Review coordination with related work.
- E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

# 3.04 LAYING OUT THE WORK

- A. Verify locations of survey control points prior to starting work.
- B. Promptly notify Architect of any discrepancies discovered.
- C. Protect survey control points prior to starting site work; preserve permanent reference points during construction.
- D. Promptly report to Architect the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.
- E. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect.
- Utilize recognized engineering survey practices.
- G. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
  - 1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
  - 2. Grid or axis for structures.
  - 3. Building foundation, column locations, ground floor elevations.
- H. Periodically verify layouts by same means.
- I. Maintain a complete and accurate log of control and survey work as it progresses.

### 3.05 GENERAL INSTALLATION REQUIREMENTS

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.

- B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
- C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
- D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
- E. Make neat transitions between different surfaces, maintaining texture and appearance.

# 3.06 ALTERATIONS

- A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
  - 1. Verify that construction and utility arrangements are as indicated.
  - 2. Report discrepancies to Architect before disturbing existing installation.
  - 3. Beginning of alterations work constitutes acceptance of existing conditions.
- B. Keep areas in which alterations are being conducted separated from other areas that are still occupied.
  - 1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 015000 in locations indicated on drawings.
- C. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.
  - 1. Where openings in exterior enclosure exist, provide construction to make exterior enclosure weatherproof.
  - Insulate existing ducts or pipes that are exposed to outdoor ambient temperatures by alterations work.
- D. Remove existing work as indicated and as required to accomplish new work.
  - 1. Remove items indicated on drawings.
  - 2. Relocate items indicated on drawings.
  - 3. Where new surface finishes are to be applied to existing work, perform removals, patch, and prepare existing surfaces as required to receive new finish; remove existing finish if necessary for successful application of new finish.
  - 4. Where new surface finishes are not specified or indicated, patch holes and damaged surfaces to match adjacent finished surfaces as closely as possible.
- E. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications): Remove, relocate, and extend existing systems to accommodate new construction.
  - 1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components; if necessary, modify installation to allow access or provide access panel.
  - 2. Where existing systems or equipment are not active and Contract Documents require reactivation, put back into operational condition; repair supply, distribution, and equipment as required.
  - Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
    - Disable existing systems only to make switchovers and connections; minimize duration of outages.
    - b. Provide temporary connections as required to maintain existing systems in service.
  - 4. Verify that abandoned services serve only abandoned facilities.
  - 5. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification; patch holes left by removal using materials specified for new construction.
- F. Protect existing work to remain.
  - 1. Prevent movement of structure; provide shoring and bracing if necessary.
  - 2. Perform cutting to accomplish removals neatly and as specified for cutting new work.

- 3. Repair adjacent construction and finishes damaged during removal work.
- G. Adapt existing work to fit new work: Make as neat and smooth transition as possible.
  - 1. When existing finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division and make recommendation to Architect.
- H. Patching: Where the existing surface is not indicated to be refinished, patch to match the surface finish that existed prior to cutting. Where the surface is indicated to be refinished, patch so that the substrate is ready for the new finish.
- I. Refinish existing surfaces as indicated:
  - Where rooms or spaces are indicated to be refinished, refinish all visible existing surfaces
    to remain to the specified condition for each material, with a neat transition to adjacent
    finishes.
  - If mechanical or electrical work is exposed accidentally during the work, re-cover and refinish to match.
- J. Clean existing systems and equipment.
- K. Remove demolition debris and abandoned items from alterations areas and dispose of off-site; do not burn or bury.
- L. Do not begin new construction in alterations areas before demolition is complete.
- M. Comply with all other applicable requirements of this section.

### 3.07 CUTTING AND PATCHING

- A. The Prime Contractor shall be responsible for coordinating all cutting and patching of built work that needs to be modified for missed items, errors, defects, etc., as caused by his own Employees or Sub-contractors. He shall coordinate with related trades and Sub-Contractors and work out all details and scheduling. The Prime Contractor shall coordinate with the responsible party for the problem and extra work and shall resolve all costs to correct, without additional charge to the Owner.
- B. Whenever possible, execute the work by methods that avoid cutting or patching.
- C. See Alterations article above for additional requirements.
- D. Perform whatever cutting and patching is necessary to:
  - 1. Complete the work.
  - 2. Fit products together to integrate with other work.
  - 3. Provide openings for penetration of mechanical, electrical, and other services.
  - 4. Match work that has been cut to adjacent work.
  - 5. Repair areas adjacent to cuts to required condition.
  - 6. Repair new work damaged by subsequent work.
  - 7. Remove samples of installed work for testing when requested.
  - 8. Remove and replace defective and non-complying work.
- E. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
- F. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
- G. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
- H. Restore work with new products in accordance with requirements of Contract Documents.
- I. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- J. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 078400, to full thickness of the penetrated element.

## K. Patching:

- Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
- 2. Match color, texture, and appearance.
- 3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

# 3.08 PROGRESS CLEANING

- A. On a daily basis, all rubbish and debris shall be cleaned up and placed in a dumpster on the job site to be removed/replaced as needed to a licensed disposal site. The building site shall be kept neat and organized, so that work and safety of all trades is not affected. Submit written documentation, manifests, logs, etc. of all debris removal at completion of job.
- B. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- C. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- E. Collect and remove waste materials, debris, and trash/rubbish from site daily and dispose offsite; do not burn or bury.
- F. It shall be the Prime Contractor's responsibility to clean-up and co-ordinate work areas so that each trade can perform their work safely and efficiently or direct and enforce that each Sub-Contractor conforms to these same requirements.
- G. Should the Contractor fail to clean-up debris caused from his operations and properly store and remove from site on a daily basis, the Owner in a safety/emergency situation without notice to the Contractor may elect to clean up debris with their own work force. At other times the Owner will give Contractor advance notice. All costs incurred by the Owner due to Contractor's neglect will be documented and deducted against the final contract amount due to the Contractor.

### 3.09 STORAGE OF MATERIALS

A. Materials used as part of this work shall be neatly stored and properly protected in an organized manner, so they do not interfere with the work, safety of all trades and hazard or damage to the site/building. Vandalism arising from improperly stored materials to the Owner's site/building shall be borne by the Contractor.

# 3.10 PROTECTION OF INSTALLED WORK

- A. Protect installed work from damage by construction operations.
- B. Provide special protection where specified in individual specification sections.
- C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- G. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

# 3.11 SYSTEM STARTUP

- A. Coordinate schedule for start-up of various equipment and systems.
- B. Notify Architect and Owner seven days prior to start-up of each item.

- C. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.
- D. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.
- E. Verify that wiring and support components for equipment are complete and tested.
- F. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.
- G. When specified in individual specification Sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment or system installation prior to start-up, and to supervise placing equipment or system in operation.
- H. Submit a written report that equipment or system has been properly installed and is functioning correctly.

# 3.12 DEMONSTRATION AND INSTRUCTION

- A. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at scheduled time, at equipment location.
- For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.
- C. Provide a qualified person who is knowledgeable about the Project to perform demonstration and instruction of Owner's personnel.
- D. Utilize operation and maintenance manuals as basis for instruction. Review contents of manual with Owner's personnel in detail to explain all aspects of operation and maintenance.
- E. Prepare and insert additional data in operations and maintenance manuals when need for additional data becomes apparent during instruction.

# 3.13 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

#### 3.14 FINAL CLEANING

- A. Use cleaning materials that are nonhazardous.
- B. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
- C. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.
- D. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- E. Clean filters of operating equipment.
- F. Clean debris from roofs, gutters, downspouts, scuppers, overflow drains, area drains, and drainage systems.
- G. Clean site: sweep paved areas, rake clean landscaped surfaces.
- H. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.
- I. If this contract involves construction of a new building, remodeling, or additions the scope of clean up shall be more than the normal removal of rubbish and leaving the work areas clean. The Contractor shall clean all new work, wash floors, vacuum carpet, wash glass, remove all stickers, replace broken glass, remove stains, spots, marks, dust and dirt from all decorated work and finishes, including all existing areas affected by this operation, including tenants furnishings, contents and personal belongings. All damage to lawns, walks, pavement, vehicles or other operations in performing this work shall be repaired or replaced to an equal, or better condition than before the damage occurred. The project shall be ready for Owner's occupancy

and use when completed.

# 3.15 CLOSEOUT PROCEDURES

- A. Make submittals that are required by governing or other authorities.
  - Provide copies to Architect.
- B. Accompany Project Coordinator on preliminary inspection to determine items to be listed for completion or correction in the Contractor's Correction Punch List for Contractor's Notice of Substantial Completion.
- C. Notify Architect when work is considered ready for Architect's Substantial Completion inspection.
- D. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.
- E. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect.
- F. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.
- G. Notify Architect when work is considered finally complete and ready for Architect's Substantial Completion final inspection.
- H. Complete items of work determined by Architect listed in executed Certificate of Substantial Completion.

**END OF SECTION** 

# SECTION 024100 DEMOLITION

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Selective demolition of building elements for alteration purposes.
- B. Removal of interior concrete slab for sanitary work

# 1.02 RELATED REQUIREMENTS

- Section 016000 Product Requirements: Handling and storage of items removed for salvage and relocation.
- B. Section 017000 Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.

# 1.03 REFERENCE STANDARDS

 A. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2019.

# 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Demolition Plan: Submit demolition plan as required by OSHA and local AHJs.
  - Indicate extent of demolition, removal sequencing, bracing and shoring, and location and construction of barricades and fences.
  - 2. Demolition firm qualifications.
- C. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

# 1.05 QUALITY ASSURANCE

A. All demolition workmanship shall be of first quality, performed by skilled workers with items carefully removed to not damage existing work that remains or to be built upon/modified by other trades. The Demolition Contractor or workers shall be knowledgeable of the systems and materials they are removing. Coordinate all demolition work with the Sub-Contractors that will be required to repair, extend, modify, alter, etc., the item or items involved. Where possible, the actual trade performing the re-construction shall perform the demolition.

# **PART 3 EXECUTION**

# 2.01 DEMOLITION

- A. Work included consists of, but is not limited to the following:
  - 1. Selective removal of ceilings, walls, slabs, floor finishes, joints, masonry, misc. equipment, doors/frames, etc., as detailed or required for new work and/or maintenance repairs.
  - 2. See related mechanical, electrical, and plumbing specifications for other items.
  - 3. Where necessary or specified, saw cut, core drill, etc., certain areas to prevent unnecessary destruction of the existing work, which may otherwise require extra re-building to return to original or acceptable condition as existed before starting new work.
  - 4. Miscellaneous finishes as required for new work.
  - 5. All other work as indicated on the drawings.
- B. Remove other items indicated, for salvage, relocation, and recycling.

# 2.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
  - 1. Obtain required permits.
  - 2. Comply with applicable requirements of NFPA 241.
  - 3. Use of explosives is not permitted.

- Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
- 5. Provide, erect, and maintain temporary barriers and security devices.
- 6. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
- 7. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
- 8. Conduct operations to minimize obstruction of public and private entrances and exits. Do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations.
- 9. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to their property.
- B. Do not begin removal until receipt of notification to proceed from Owner.
- C. Do not begin removal until built elements to be salvaged or relocated have been removed.
- D. Protect existing structures and other elements to remain in place and not removed.
  - Design, install, and maintain formwork, falsework, shoring, reshoring, bracing and other temporary systems required to support construction loads and to maintain stability during construction. Engage the services of professional engineer licensed in state of project to design such temporary systems.
  - 2. When it is necessary to cut openings in existing concrete members, slabs, or masonry, locate existing prestressing tendons, reinforcing bars, and embedments, by x-ray, electromagnetic, or ultrasonic testing or by chipping. Do not cut or damage prestressing tendons and minimize cutting of other reinforcing bars and embedments. Notify Architect of existing reinforcing bars and embedments which will be cut by openings.
  - 3. Prevent movement or settlement of adjacent structures.
  - 4. Stop work immediately if adjacent structures appear to be in danger.
  - 5. It is the contractor's responsibility to exercise proper care to protect all surroundings (air quality, furnishings, building, occupants, etc.) during all phases of construction. Certain areas with high replacement costs, containing occupants, still under warranty, and/or easily damaged should have added protection features. An example would be "flat" roofs and gymnasium floors and any walking surface to remain being covered using protective boards to prevent puncturing, denting, surface scratching, and wear. Prior to any physical work, the contractor must have a written plan for protection approved by the architect.
- E. Minimize production of dust due to demolition operations. Do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.
- F. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials include regulated asbestos containing materials, lead, PCB's, and mercury.
- G. Perform demolition in a manner that maximizes salvage and recycling of materials.
  - Dismantle existing construction and separate materials.
  - 2. Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or point of reuse.

# 2.03 SALVAGEABLE MATERIALS

- A. Where noted in Special Conditions, or herein, or other related Divisions or in the drawings, including mechanical and electrical, carefully remove certain items and store on job site in mutually agreed upon areas for Owner to pick-up and remove.
- B. Any salvageable items as requested to become the property of the Owner, and the Contractor feels the item will be destroyed in the removal process, or is not cost effective to carefully removed, shall be stated as such in the Bid Proposal. Also any item or items scheduled to be turned over to the Owner, which the Contractor feels has substantial salvageable value and wishes to retain, he may elect to submit a credit for Owner's consideration on the Bid Proposal.

- C. Contractor shall verify and coordinate salvageable material selection with the Owner prior to removal from the job site.
- D. Salvageable items to turn over to the owner incude but are not limited to:
  - Doors and Door hardware
  - 2. Other items as noted on the plans.
- E. Special Note Wherever contractor removes ceiling tile, it shall be saved until the end of job for blending into the existing ceilings as needed at other areas / work throughout the building. At the end of project, the owner has the option of keeping the salvaged tile or having contractor haul off at his expense.

#### 2.04 EXISTING UTILITIES

- A. Coordinate work with utility companies. Notify utilities before starting work, comply with their requirements, and obtain required permits.
- B. Contractor to locate all private utilities within work limits before starting physical work.
- C. Protect existing utilities to remain from damage.
- D. Do not disrupt public utilities without permit from authority having jurisdiction.
- E. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.
- F. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
- G. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- H. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.

#### 2.05 SELECTIVE DEMOLITION FOR ALTERATIONS

- A. Existing construction and utilities indicated on drawings are based on casual field observation and existing record documents only.
  - 1. Verify construction and utility arrangements are as indicated.
  - 2. Report discrepancies to Architect before disturbing existing installation.
  - 3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
- B. Separate areas in which demolition is being conducted from areas that remain occupied.
  - 1. Provide, erect, and maintain temporary dustproof / fireproof partitions of construction specified in Section 015000 in locations indicated on drawings.
- C. Maintain weatherproof exterior building enclosure, except for interruptions required for replacement or modifications; prevent water and humidity damage.
- D. Remove existing work as indicated and required to accomplish new work.
  - 1. Remove items indicated on drawings.
- Protect existing work to remain.
  - 1. Prevent movement of structure. Provide shoring and bracing as required.
  - 2. Perform cutting to accomplish removal work neatly and as specified for cutting new work.
  - 3. Repair adjacent construction and finishes damaged during removal work.
  - 4. Patch to match new work.

#### 2.06 PATCHING

A. Where certain items are called for to be replaced, removed, repaired, altered, etc., and the work involves the removal/destruction of adjacent or related existing items, those damaged items shall be patched, repaired, replaced to their original or better condition as existed before the work is started. A typical example would be regarding new door/frame replacement in same wall. Included as part of the work is any wall damage caused by the removal of door/frame and

the installation of the new - including finishes.

- B. Where not shown on drawings, all patching, painting, etc. shall be done with similar materials or an approved substitute to the surrounding areas or as specified in other related Divisions and as recommended by manufacturer. If the Contractor is in question, consult the Architect prior to removal or replacement. All materials shall be carefully removed to avoid damage to other work not scheduled for demolition or for turning over to the Owner.
- C. All patching work shall be uniform in appearance, flush, same texture, etc. with the adjacent existing work. In certain instances, to achieve this, additional adjacent work may be necessary to remove and replace. Typical examples would be:
- D. Any patch painting shall be done in geometric configurations, stopping at logical break points, such as inside or outside corners, at change of materials, or as directed by Owner/Architect.
- E. Neatly saw cut existing walls for installation of new shower panel frames. Grout all surrounding masonry solid in preparation of frame installation.
- F. Where existing tile ceilings are removed during Owners asbestos abatement, and the work will be exposed, patching may be done with matching plaster of 5/8" drywall properly anchored, taped and spackled.
- G. Where existing walls are removed and/or finishes are removed, the substrate material shall be cleaned, ground down, filled, leveled smooth, etc. and made ready for new finishes and/or materials as specified. Flatness tolerance shall be Class 'A' (1/8" deviation in 10'). Leveling shall be done with materials as manufactured by Ardex, Sika, Thoro, or equal.

# 2.07 DEBRIS AND WASTE REMOVAL

- A. Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.
- C. Clean up spillage and wind-blown debris from public and private lands.

**END OF SECTION** 

# SECTION 031000 CONCRETE FORMING AND ACCESSORIES

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Formwork for cast-in-place concrete, with shoring, bracing and anchorage.
- B. Openings for other work.
- C. Form accessories.
- D. Form stripping.

#### 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements
- C. Section 032000 Concrete Reinforcing.
- D. Section 033000 Cast-in-Place Concrete.
- E. Section 051200 Structural Steel Framing: Placement of embedded steel anchors and plates in cast-in-place concrete.

# 1.03 REFERENCE STANDARDS

- A. ACI 117 Specifications for Tolerances for Concrete Construction and Materials; 2010 (Reapproved 2015).
- B. ACI 301 Specifications for Structural Concrete; 2016.
- C. ACI 347R Guide to Formwork for Concrete; 2014, with Errata (2017).

# **PART 2 PRODUCTS**

#### 2.01 FORMWORK - GENERAL

- Provide concrete forms, accessories, shoring, and bracing as required to accomplish cast-inplace concrete work.
- B. Design and construct concrete that complies with design with respect to shape, lines, and dimensions.
- C. Comply with applicable state and local codes with respect to design, fabrication, erection, and removal of formwork.

#### 2.02 WOOD FORM MATERIALS

A. Form Materials: Lumber used in forms for exposed surfaces shall be dressed to a uniform width and thickness and shall be free from loose knots or other defects. Joints in forms shall be horizontal or vertical. Undressed lumber may be used for rough work or unexposed work.

# 2.03 FORMWORK ACCESSORIES

- A. Form Release Agent: Capable of releasing forms from hardened concrete without staining or discoloring concrete or forming bugholes and other surface defects, compatible with concrete and form materials, and not requiring removal for satisfactory bonding of coatings to be applied.
  - 1. Composition: Colorless, reactive, water-based or solvent-based compound.
  - 2. Do not use materials containing diesel oil or petroleum-based compounds.
  - 3. VOC Content: In compliance with applicable local, State, and federal regulations.
  - 4. Products:
    - a. SpecChem, LLC; SpecStrip: www.specchemllc.com/#sle.
    - b. W. R. Meadows, Inc; Duogard: www.wrmeadows.com/#sle.
- B. Nails, Spikes, Lag Bolts, Through Bolts, Anchorages: Sized as required, of sufficient strength and character to maintain formwork in place while placing concrete.
- C. Embedded Anchor Shapes, Plates, Angles and Bars: As specified in Section 051200.

# **PART 3 EXECUTION**

## 3.01 EXAMINATION

A. Verify lines, levels and centers before proceeding with formwork. Ensure that dimensions agree with drawings.

# 3.02 ERECTION - FORMWORK

- A. Erect formwork, shoring and bracing to achieve design requirements, in accordance with requirements of ACI 301.
- B. Provide bracing to ensure stability of formwork. Shore or strengthen formwork subject to overstressing by construction loads.
- C. If the nature of the soil will permit, trenches for wall footings may be cut to accurate sizes and side form omitted where the earth will properly contain the concrete. Conform with requirements/recommendations of ACI 347R for formwork.
- D. Arrange and assemble formwork to permit dismantling and stripping. Do not damage concrete during stripping. Permit removal of remaining principal shores.
- E. Coordinate this section with other sections of work that require attachment of components to formwork.
- F. If formwork is placed after reinforcement, resulting in insufficient concrete cover over reinforcement, request instructions from Architect before proceeding.

# 3.03 APPLICATION - FORM RELEASE AGENT

- A. Apply form release agent on formwork in accordance with manufacturer's recommendations.
- B. Apply prior to placement of reinforcing steel, anchoring devices, and embedded items.
- C. Do not apply form release agent where concrete surfaces will receive special finishes or applied coverings that are affected by agent. Soak inside surfaces of untreated forms with clean water. Keep surfaces coated prior to placement of concrete.

# 3.04 INSERTS, EMBEDDED PARTS, AND OPENINGS

- A. Provide formed openings where required for items to be embedded in passing through concrete work
- B. Locate and set in place items that will be cast directly into concrete.
- C. Coordinate with work of other sections in forming and placing openings, slots, reglets, recesses, sleeves, bolts, anchors, other inserts, and components of other work.
- D. Install accessories in accordance with manufacturer's instructions, so they are straight, level, and plumb. Ensure items are not disturbed during concrete placement.

## 3.05 FORM CLEANING

- A. Clean forms as erection proceeds, to remove foreign matter within forms.
- B. Clean formed cavities of debris prior to placing concrete.

## 3.06 FORMWORK TOLERANCES

A. Construct formwork to maintain tolerances required by ACI 117, unless otherwise indicated.

# 3.07 FORM REMOVAL

- A. Do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads.
- B. Loosen forms carefully. Do not wedge pry bars, hammers, or tools against finish concrete surfaces scheduled for exposure to view.

# **END OF SECTION**

# SECTION 032000 CONCRETE REINFORCING

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Reinforcing steel for cast-in-place concrete.
- B. Supports and accessories for steel reinforcement.

# 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements
- C. Section 031000 Concrete Forming and Accessories.
- D. Section 033000 Cast-in-Place Concrete.

# 1.03 REFERENCE STANDARDS

- A. ACI 301 Specifications for Structural Concrete; 2016.
- B. ACI 318 Building Code Requirements for Structural Concrete; 2019, with Errata (2021).
- C. ACI SP-66 ACI Detailing Manual; 2004.
- D. ASTM A615/A615M Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2020.
- E. ASTM A704/A704M Standard Specification for Welded Steel Plain Bar or Rod Mats for Concrete Reinforcement; 2019, with Editorial Revision.
- F. ASTM A775/A775M Standard Specification for Epoxy-Coated Steel Reinforcing Bars; 2019.
- G. ASTM A1064/A1064M Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2018a.
- H. ASTM D3963/D3963M Standard Specification for Fabrication and Jobsite Handling of Epoxy-Coated Steel Reinforcing Bars; 2021.
- I. CRSI (DA4) Manual of Standard Practice; 2009.
- J. CRSI (P1) Placing Reinforcing Bars, 10th Edition; 2019.

# 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Comply with requirements of ACI SP-66. Include bar schedules, shapes of bent bars, spacing of bars, and location of splices.

#### 1.05 QUALITY ASSURANCE

- A. Perform work of this section in accordance with ACI 301.
  - Maintain one copy of each document on project site.

#### **PART 2 PRODUCTS**

#### 2.01 REINFORCEMENT

- A. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi) (420 MPa).
  - 1. Unfinished.
  - 2. Where required, Epoxy coated in accordance with ASTM A775/A775M.
- B. Reinforcing Steel Mat: ASTM A704/A704M, using ASTM A615/A615M, Grade 40 (40,000 psi) (280 MPa) steel bars or rods, unfinished.
- C. Steel Welded Wire Reinforcement (WWR): Galvanized, deformed type; ASTM A1064/A1064M.
- D. Reinforcement Accessories:

1. Tie Wire: Annealed, minimum 16 gauge, 0.0508 inch (1.29 mm).

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2. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for adequate support of reinforcement during concrete placement. Accessories shall be placed in accordance with the CRSI Code unless otherwise noted.

# 2.02 FABRICATION

- A. Fabricate concrete reinforcing in accordance with CRSI (DA4) Manual of Standard Practice.
- B. Welding of reinforcement is not permitted.
- C. Fabricate and handle epoxy-coated reinforcing in accordance with ASTM D3963/D3963M.
- D. Locate reinforcing splices not indicated on drawings at point of minimum stress.

# **PART 3 EXECUTION**

## 3.01 PLACEMENT

- A. Place, support and secure reinforcement against displacement. Do not deviate from required position.
- B. Reinforcement shall be carefully formed to dimensions on the plans and as recommended in "Details & Detailing of Concrete Reinforcement" (ACI SP-66. Placement of bars shall conform to latest CRSI "Recommended Practice for Placing Reinforcement Bars"), details and detailing of concrete reinforcing ACI 315, and guide for concrete floor and slab construction ACI 302.1-R.
- C. Do not displace or damage vapor barrier.
- D. Metal reinforcement shall not be bent or straightened in a manner that will injure the material. Bars with kinks or bends not shown on the plans shall not be used.
- E. Accommodate placement of formed openings.
- F. Unless otherwise noted, lap continuous bars 36 diameters, but in any case' not less than 15". Horizontal bars shall continue around corners minimum of 15" unless otherwise noted. Provide corner bars equivalent in size and number to horizontal bars at corners and wall footings and lap with horizontal reinforcement.
- G. Reinforcement shall be free from rust, scale and oil, and shall be accurately positioned and secured against displacement by using annealed wire of not less than No. 16 Ga., or suitable clips at intersections and shall be supported in a manner that will keep all metal away from the exposed surface of the concrete.
- H. Comply with applicable code for concrete cover over reinforcement. The minimum concreted cover shall be: for concrete exposed to the weather 1-1/2" for #5 and smaller, 2" for #6 and larger; 3" for concrete on or below ground; 3/4" in slabs on grade, walls and joists, and 1-1/2" for beams, girders and columns.
- I. Lap mesh a minimum of one grid spacing (plus 2") and ensure that mesh is completely embedded in the concrete approximately 2" from the bottom of the slab.
- J. Dowel masonry foundation walls to concrete entrance aprons and footings minimum of 24 bar diameters into each wall and footing at 24" O.C. with (1) - #5 unless noted otherwise on the plans.
- K. All reinforced pilasters, masonry door openings, bearing walls under beams, etc. shall have vertical foundation/footing dowels extended into walls for full height reinforcing. (From footing to top of masonry wall).
- L. Dowel all exterior concrete slabs/walks into concrete porches and aprons with #4-bars 24" O.C. unless noted otherwise.
- M. Provide reinforcement in top of interior wall footings centered under door and other openings equivalent in size and number to bottom reinforcement and 4 feet longer than opening.
- N. Minimum reinforcement unless noted otherwise:
  - 1. Walls 8" or less in thickness: #5 at 12" each way centered in wall.
  - 2. Walls thicker than 8": #5 at 12" each way centered in face.
  - 3. Slabs on grade or slabs on joists: 6" x 6" W 2.1 x W 2.1 W.W.F.

Concrete Reinforcing 032000 - 2

O. Bond and ground all reinforcement to requirements of Section 260526.

# **END OF SECTION**

Concrete Reinforcing 032000 - 3

# SECTION 033000 CAST-IN-PLACE CONCRETE

## **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Interior concrete slabs.
- B. Joint devices associated with concrete work.
- C. Concrete curing.

# 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements
- C. Section 031000 Concrete Forming and Accessories: Forms and accessories for formwork.
- D. Section 032000 Concrete Reinforcing.
- E. Section 079200 Joint Sealants: Products and installation for sealants and joint fillers for saw cut joints and isolation joints in slabs.
- F. Section 321313 Concrete Paving: Sidewalks, curbs and gutters.

#### 1.03 REFERENCE STANDARDS

- ACI 117 Specifications for Tolerances for Concrete Construction and Materials; 2010 (Reapproved 2015).
- B. ACI 211.1 Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete; 1991 (Reapproved 2009).
- C. ACI 301 Specifications for Structural Concrete; 2016.
- D. ACI 302.1R Guide to Concrete Floor and Slab Construction; 2015.
- E. ACI 304R Guide for Measuring, Mixing, Transporting, and Placing Concrete; 2000 (Reapproved 2009).
- F. ACI 305R Guide to Hot Weather Concreting; 2010.
- G. ACI 306R Guide to Cold Weather Concreting; 2016.
- H. ACI 308R Guide to External Curing of Concrete; 2016.
- I. ACI 318 Building Code Requirements for Structural Concrete; 2019, with Errata (2021).
- J. ACI 347R Guide to Formwork for Concrete; 2014, with Errata (2017).
- K. ASTM C33/C33M Standard Specification for Concrete Aggregates; 2018.
- L. ASTM C39/C39M Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2021.
- M. ASTM C143/C143M Standard Test Method for Slump of Hydraulic-Cement Concrete; 2020.
- N. ASTM C150/C150M Standard Specification for Portland Cement; 2021.
- O. ASTM C260/C260M Standard Specification for Air-Entraining Admixtures for Concrete; 2010a (Reapproved 2016).
- P. ASTM C494/C494M Standard Specification for Chemical Admixtures for Concrete; 2019.
- Q. ASTM E1155 Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers; 2020.
- R. ASTM E1155M Standard Test Method for Determining F(F) Floor Flatness and F(L) Floor Levelness Numbers (Metric): 2014.
- S. ASTM E1643 Standard Practice for Selection, Design, Installation and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs; 2018a.

- T. ASTM E1745 Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs; 2017.
- U. ICRI 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair; 2013.

#### 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.
  - 1. For curing compounds, provide data on method of removal in the event of incompatibility with floor covering adhesives.
- C. Mix Design: Submit proposed concrete mix design.
  - Indicate proposed mix design complies with requirements of ACI 301, Section 4 -Concrete Mixtures.
  - 2. Indicate proposed mix design complies with requirements of ACI 318, Chapter 5 Concrete Quality, Mixing and Placing.
  - Indicate proposed mix design complies with admixture manufacturer's written recommendations.
- D. Samples: Submit samples of underslab vapor retarder to be used.
- E. Test Reports: Submit report for each test or series of tests specified.

# 1.05 QUALITY ASSURANCE

- A. Perform work of this section in accordance with ACI 301 and ACI 318.
  - Maintain one copy of each document on site.
- B. Follow recommendations of ACI 305R when concreting during hot weather.
- C. Follow recommendations of ACI 306R when concreting during cold weather.

#### 1.06 WARRANTY

A. See Section 017800 - Closeout Submittals for additional warranty requirements.

# **PART 2 PRODUCTS**

# 2.01 FORMWORK

A. Comply with requirements of Section 031000.

#### 2.02 REINFORCEMENT MATERIALS

A. Comply with requirements of Section 032000.

# 2.03 ADMIXTURES

- A. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.
- B. Air Entrainment Admixture: ASTM C260/C260M.

# 2.04 ACCESSORY MATERIALS

- A. Underslab and Crawl Space Vapor Retarder:
  - Sheet Material: ASTM E1745, Class A; stated by manufacturer as suitable for installation in contact with soil or granular fill under concrete slabs. Visqueen polyethylene film min. 6 mil (.006") thick, as manufactured by the Visking Co., or approved substitute.
  - 2. Accessory Products: Vapor retarder manufacturer's recommended tape, adhesive, mastic, prefabricated boots, etc., for sealing seams and penetrations.

# 2.05 BONDING AND JOINTING PRODUCTS

A. Water Stops – Multi-ribbed, keyway design and others as detailed on drawings, for non-limited movement as manufactured by Bometals, Inc., Powder Springs, GA, 800-862-4835 or approved equal.

B. Expansion joint to be fiberboard impregnated with not less than 35% nor more than 50% of asphalt by weight. Joint material to be full thickness of slab or joint and 1/4" thick interior and 1/2" thick exterior, height equal to slab thickness, with removable top section that will form 1/2 inch (13 mm) deep sealant pocket after removal.

#### 2.06 CONCRETE MIX DESIGN

- A. Proportioning Normal Weight Concrete: Comply with ACI 211.1 recommendations.
- B. Concrete Strength: Establish required average strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI 301.
  - 1. For trial mixtures method, employ independent testing agency acceptable to Architect for preparing and reporting proposed mix designs.
- C. Admixtures: Add acceptable admixtures as recommended in ACI 211.1 and at rates recommended or required by manufacturer.
- D. Normal Weight Concrete:
  - Compressive Strength, when tested in accordance with ASTM C39/C39M at 28 days: 3,000 PSI; Footings, foundations, and interior slabs on grade – 3,500 PSI; Columns – 4,000 PSI; Exterior slabs, walks, curbs, and pads - 4,000 PSI air entrained w/ 4% - 6% air.

#### 2.07 MIXING

- A. Mixing, placing and curing shall conform to ACI 301, ACI 305-R hot weather concreting, and ACI 306-R (cold weather concreting) and ACI 304-R (measuring, mixing and placing). Ready mixed concrete may be used and shall be mixed and delivered in accordance with ASTM 094-55T. Delivery tickets shall be recorded for inspection showing batch No., mix admixtures, time, water content, etc. Submit copies to Architect.
- B. Adding Water: If concrete arrives on-site with slump less than suitable for placement, do not add water that exceeds the maximum water-cement ratio or exceeds the maximum permissible slump.

# **PART 3 EXECUTION**

# 3.01 EXAMINATION

A. Verify lines, levels, and dimensions before proceeding with work of this section.

# 3.02 PREPARATION

- A. All existing materials shall be saw cut in straight perpendicular/parallel lines in regular geometric patterns.
- B. Formwork: Comply with requirements of ACI 301. Design and fabricate forms to support all applied loads until concrete is cured, and for easy removal without damage to concrete.
- Verify that forms are clean and free of rust before applying release agent.
- D. Coordinate placement of embedded items with erection of concrete formwork and placement of form accessories.
- E. Prepare existing concrete surfaces to be repaired according to ICRI 310.2R, _____
- F. In locations where new concrete is doweled to existing work, drill holes in existing concrete, insert steel dowels and pack solid with non-shrink grout or epoxy as specified.
- G. Interior Slabs on Grade: Install vapor retarder under interior slabs on grade. Comply with ASTM E1643. Lap joints minimum 6 inches (150 mm). Seal joints, seams and penetrations watertight with manufacturer's recommended products and follow manufacturer's written instructions. Seal around all pipes and other projections piercing vapor barrier. It is suggested that pipe screeds on concrete leveling pads be used for striking off concrete to grade, as no screed stakes will be permitted to puncture vapor barrier. Spot tape in place to prevent movement while installing concrete.Repair damaged vapor retarder before covering.

# 3.03 INSTALLING REINFORCEMENT AND OTHER EMBEDDED ITEMS

A. Comply with requirements of ACI 301. Clean reinforcement of loose rust and mill scale, and accurately position, support, and secure in place to achieve not less than minimum concrete

coverage required for protection.

# 3.04 PLACING CONCRETE

- A. Place concrete in accordance with ACI 304R.
- B. Place concrete for floor slabs in accordance with ACI 302.1R.
- C. Notify Architect not less than 24 hours prior to commencement of placement operations.
- D. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.
- E. Ensure reinforcement, inserts, waterstops, embedded parts, and formed construction joint devices will not be disturbed during concrete placement.
- F. Before concrete is placed, all equipment for mixing and transporting concrete shall be cleaned, all debris shall be removed from spaces to be occupied by the concrete, forms shall be thoroughly wetted and oiled, water shall be removed from excavations, and all work to be built into the concrete shall be in place, inspected and approved by the Architect.
- G. Place concrete continuously without construction (cold) joints wherever possible; where construction joints are necessary, before next placement prepare joint surface by removing laitance and exposing the sand and sound surface mortar, by sandblasting or high-pressure water jetting.
- H. Concrete shall be handled from the mixer to the place of final deposit as rapidly as possible by methods, which shall prevent the separation or loss of ingredients.
- Weather Conditions:
  - 1. Concrete shall not be placed during rain, sleet or snow, to avoid adding to the water content or damage surface finish.
  - 2. Below mean daily temperature of 40 degrees F.; concrete temperature as placed shall be 50 degrees F.; above mean daily temperature of 90 degrees F.; the concrete temperature shall not exceed 90 degrees F.
  - 3. Cold Weather Concrete
    - a. Contractor shall exercise precautions as outlined in ACI 306-R for concrete installed in cold weather. Included is all heating equipment, fiberglass insulation, visqueen, etc., as required to thoroughly protect the concrete.
    - b. The Contractor shall notify the Architect of any concrete placement within twenty-four hours in advance. Failure to do so will result in concrete removal and replacement at the Contractor's expense.
- J. Equipment Pads As specified in the Mechanical/Electrical Divisions and noted on drawings, shall be installed in sizes and locations as coordinated with equipment to be supported. Forms shall be set and Contractor shall receive Architect's approval prior to pouring concrete.
- K. Finish floors level and flat, unless otherwise indicated, within the tolerances specified elsewhere.

# 3.05 SLAB JOINTING

- A. Locate joints as indicated on drawings.
- B. Anchor joint fillers and devices to prevent movement during concrete placement.
- C. Isolation Joints: Use preformed joint filler with removable top section for joint sealant, total height equal to thickness of slab, set flush with top of slab.

# 3.06 FLOOR FLATNESS AND LEVELNESS TOLERANCES

- A. All floors must be free from irregularities, waviness, rough spots and any other defects, with maximum variation of 1/8" in 10' diameter.
- B. Minimum F(F) Floor Flatness and F(L) Floor Levelness Values:
  - 1. Exposed to View and Foot Traffic: F(F) of 20; F(L) of 15, on-grade only.
  - 2. Under Thick-Bed Tile: F(F) of 20; F(L) of 15, on-grade only.
  - 3. Under Carpeting: F(F) of 25; F(L) of 20, on-grade only.
  - 4. Under Thin Resilient Flooring and Thinset Tile: F(F) of 35; F(L) of 25, on-grade only.

- C. Measure F(F) Floor Flatness and F(L) Floor Levelness in accordance with ASTM E1155 (ASTM E1155M), within 48 hours after slab installation; report both composite overall values and local values for each measured section.
- D. Correct the slab surface if composite overall value is less than specified and if local value is less than two-thirds of specified value or less than F(F) 13/F(L) 10.
- E. Correct defects by grinding or by removal and replacement of the defective work. Areas requiring corrective work will be identified. Re-measure corrected areas by the same process.

# 3.07 CONCRETE FINISHING

- A. Repair surface defects, including tie holes, immediately after removing formwork.
- B. Unexposed Form Finish: Rub down or chip off fins or other raised areas 1/4 inch (6 mm) or more in height.
- C. All exposed surfaces when forms are stripped shall be sealed with a light cement sand mixture. Thoroughly wet surfaces and rub with burlap to fill all air pockets and voids.
- D. Chamfer all exposed edges 3/4" x 45 degrees
- E. Concrete Slabs: Finish to requirements of ACI 302.1R, and as follows:
  - 1. Screed floors to proper level, float and trowel. After floating to proper level, allow concrete to stand until all water sheen has disappeared. Do finish troweling with steel trowel after concrete is so hard that no mortar accumulates on the trowel and a ringing sound is produced as the trowel is drawn over the surface.
  - 2. Finish exterior walks and platforms with magnesium trowel and give a lightly swirled, non-slip trowel finish.
  - 3. Other Surfaces to Be Left Exposed: Trowel as described in ACI 302.1R, minimizing burnish marks and other appearance defects.

# 3.08 CURING AND PROTECTION

- A. Comply with requirements of ACI 308R. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.
- B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
- C. Surfaces Not in Contact with Forms:
  - 1. Initial Curing: Start as soon as free water has disappeared and before surface is dry. Keep continuously moist for not less than three days by water ponding, water-saturated sand, water-fog spray, or saturated burlap.
  - 2. Final Curing: Begin after initial curing but before surface is dry.

# 3.09 FIELD QUALITY CONTROL

- A. An independent testing agency will perform field quality control tests, as specified in Section 014000 Quality Requirements.
- B. Provide free access to concrete operations at project site and cooperate with appointed firm.
- C. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.
- D. Tests of concrete and concrete materials may be performed at any time to ensure compliance with specified requirements.
- E. Compressive Strength Tests: ASTM C39/C39M, for each test, mold and cure three concrete test cylinders. Obtain test samples for every 50 cubic yards (38.23 cu m) or less of each class of concrete placed.
- F. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.
- G. Perform one slump test for each set of test cylinders taken, following procedures of ASTM C143/C143M.

# 3.10 DEFECTIVE CONCRETE

- A. Test Results: The testing agency shall report test results in writing to Architect and Contractor within 24 hours of test.
- B. Defective Concrete: Concrete not complying with required lines, details, dimensions, tolerances or specified requirements.
- C. Repair or replacement of defective concrete will be determined by the Architect. The cost of additional testing shall be borne by Contractor when defective concrete is identified.
- Do not patch, fill, touch-up, repair, or replace exposed concrete except upon express direction of Architect for each individual area.

# 3.11 PROTECTION

A. Do not permit traffic over unprotected concrete floor surface until fully cured.

**END OF SECTION** 

# SECTION 054000 COLD-FORMED METAL FRAMING

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

A. Formed steel framing for Interior overhead counter door openings.

# 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements
- C. Section 072100 Thermal Insulation: Insulation within framing members.
- D. Section 072500 Weather Barriers: Water-resistive barrier over sheathing.
- E. Section 079200 Joint Sealants.
- F. Section 092116 Gypsum Board Assemblies: Gypsum-based sheathing.
- G. Section 092220 Non-Structural Metal Framing.

# 1.03 REFERENCE STANDARDS

- A. AISI S100 North American Specification for the Design of Cold-Formed Steel Structural Members; 2016, with Supplement (2018).
- B. ASTM A153/A153M Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2016a.
- C. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.
- D. ASTM C955 Standard Specification for Cold-Formed Steel Structural Framing Members; 2018, with Editorial Revision.
- E. ASTM C1007 Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories; 2020.
- F. SSPC-Paint 20 Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); 2002 (Ed. 2004).

# 1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate with work of other sections that is to be installed in or adjacent to the metal framing system, including but not limited to structural anchors, cladding anchors, utilities, insulation, and fire stopping.

# 1.05 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on standard framing members; describe materials and finish, product criteria, limitations.
- C. Product Data: Provide manufacturer's data on factory-made framing connectors, showing compliance with requirements.
- D. Shop Drawings: Indicate component details, framed openings, bearing, anchorage, loading, welds, and type and location of fasteners, and accessories or items required of related work.
  - 1. Indicate stud and ceiling joist layout.
  - 2. Describe method for securing studs to tracks and for bolted framing connections.
  - 3. Design data:
    - a. Shop drawings signed and sealed by a professional structural engineer.
  - 4. Calculations for loadings and stresses of specially fabricated framing, signed and sealed by a professional structural engineer.
  - 5. Details and calculations for factory-made framing connectors, signed and sealed by a professional structural engineer.

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E. Manufacturer's Installation Instructions: Indicate special procedures, conditions requiring special attention.

#### 1.06 QUALITY ASSURANCE

- A. Designer Qualifications: Design framing system under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State in which the Project is located.
- B. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, and with minimum three years of documented experience.
- C. Manufacturer Qualifications: Member of Steel Stud Manufacturers Association (SSMA): www.ssma.com/#sle.
- D. Installer Qualifications: Company specializing in performing the work of this section with minimum five years documented experience.

# **PART 2 PRODUCTS**

#### 2.01 MANUFACTURERS

- A. Metal Framing:
  - CEMCO: www.cemcosteel.com/#sle.
  - 2. ClarkDietrich: www.clarkdietrich.com/#sle.
  - 3. Marino: www.marinoware.com/#sle.
  - B. Framing Connectors and Accessories:
    - 1. Same manufacturer as metal framing.
    - 2. Substitutions: See Section 016000 Product Requirements.

# 2.02 FRAMING SYSTEM

- A. Provide primary and secondary framing members, bridging, bracing, plates, gussets, clips, fittings, reinforcement, and fastenings as required to provide a complete framing system.
- B. Design Requirements: Provide completed framing system having the following characteristics:
  - Design: Calculate structural characteristics of cold-formed steel framing members according to AISI S100.
  - 2. Structural Performance: Design, engineer, fabricate, and erect to withstand specified design loads for project conditions within required limits.
  - 3. Design Loads: in accordance with applicable codes and as indicated on drawings. .
  - 4. Able to tolerate movement of components without damage, failure of joint seals, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.
  - 5. Able to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.
  - 6. Design framing systems to provide for movement of framing members located outside the insulated building envelope without damage or overstressing, sheathing failure, connection failure, undue strain on fasteners and anchors, or other detrimental effects when subject to a maximum ambient temperature change of 120 deg F (67 deg C).
- C. Shop fabricate framing system to the greatest extent possible.
- D. Deliver to project site in largest practical sections.

# 2.03 FRAMING MATERIALS

- A. Studs and Track: ASTM C955; studs formed to channel, C- or Sigma-shaped with punched web; U-shaped track in matching nominal width and compatible height.
  - 1. Gauge and Depth: As required to meet specified performance levels.
  - Galvanized in accordance with ASTM A653/A653M. G90/Z275 coating.
- B. Jamb Studs: Engineered, C-shaped with wide flanges, designed to replace conventional double-stud framing at openings.

- C. Header: Engineered one-member or two-member assembly, with wide flanges, designed to replace conventional box or nested header framing at openings.
  - 1. Jamb Mounting Clips: Manufacturer's standard.
- D. Framing Connectors: Factory-made, formed steel sheet.
  - 1. Material: ASTM A653/A653M SS Grade 33 and 40 (minimum), with G90/Z275 hot dipped galvanized coating for base metal thickness less than 10 gauge, 0.1345 inch (3.42 mm), and factory punched holes and slots.
  - 2. Structural Performance: Maintain load and movement capacity required by applicable code, when evaluated in accordance with AISI S100.
  - 3. Movement Connections: Provide mechanical anchorage devices that accommodate movement using slotted holes, shouldered screws or screws and anti-friction or stepped bushings, while maintaining structural performance of framing. Provide movement connections where indicated on drawings.
    - a. Where continuous studs bypass elevated floor slab, connect stud to slab in manner allowing vertical and horizontal movement of slab without affecting studs; allow for minimum movement of 1/2 inch (13 mm).
    - b. Where top of stud wall terminates below structural floor or roof, connect studs to structure in manner allowing vertical and horizontal movement of slab without affecting studs; allow for minimum movement of 1/2 inch (13 mm).
  - 4. Fixed Connections: Provide non-movement connections for tie-down to foundation, floor-to-floor tie-down, roof-to-wall tie-down, joist hangers, gusset plates, and stiffeners.
  - 5. Wall Stud Bridging Connections: Provide mechanical load-transferring devices that accommodate wind load torsion and weak axis buckling induced by axial compression loads. Provide bridging connections as required.

#### 2.04 FASTENERS

- A. Self-Drilling, Self-Tapping Screws, Bolts, Nuts and Washers: Hot dip galvanized per ASTM A153/A153M.
- B. Anchorage Devices: Powder actuated.

#### 2.05 ACCESSORIES

- A. Supplementary framing, Bracing, Furring, Bridging, backer plates, solid blocking, Clips: Formed sheet steel in manufacturer's thickness and configuration determined for conditions encountered; finish to match framing components.
- B. Sill Sealer Gasket: Closed-cell neoprene foam, 1/4 inch (6 mm) thick, selected from manufacturer's standard widths to match width of bottom track or rim track members as required.
- C. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20 Type I Inorganic, complying with VOC limitations of authorities having jurisdiction.

# **PART 3 EXECUTION**

#### 3.01 EXAMINATION

- A. Examine substrates, areas, conditions, and abutting structural framing for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- Proceed with installation only after unsatisfactory conditions have been corrected.

# 3.02 INSTALLATION

- A. Installation of metal shall be compatible with the adjacent materials. Provide any necessary spacers, isolators, shims, anchors, etc.
- B. Fabricate cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened, in accordance with referenced AISI's specifications and standards, manufacturer's written instructions, and requirements in this Section.
  - 1. Fabricate framing assemblies using jigs or templates.
  - 2. Cut framing members by sawing or shearing; do not torch cut.

- Fasten cold-formed steel framing members by welding, screw fastening, clinch fastening, pneumatic pin fastening, or riveting as standard with fabricator. Wire tying of framing members is not permitted.
  - a. Comply with AWS D1.3/D1.3M requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.
  - b. Locate mechanical fasteners and install in accordance with Shop Drawings, with screws penetrating joined members by no fewer than three exposed screw threads
- C. Reinforce, stiffen, and brace framing assemblies to withstand handling, delivery, and erection stresses. Lift fabricated assemblies by means that prevent damage or permanent distortion.
- D. Install sill sealer gasket at the underside of wall bottom track or rim track and at the top of foundation wall or slab at stud or joist locations.
- E. Install cold-formed steel framing in accordance with ASTM C1007, and manufacturer's written instructions unless more stringent requirements are indicated.
- F. Install shop- or field-fabricated, cold-formed framing and securely anchor to supporting structure.
  - 1. Screw, bolt, or weld wall panels at horizontal and vertical junctures to produce flush, even, true-to-line joints with maximum variation in plane and true position between fabricated panels not exceeding 1/16 inch (1.6 mm).
- G. Install cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened.
  - 1. Cut framing members by sawing or shearing; do not torch cut.
  - 2. Fasten cold-formed steel framing members by welding, screw fastening, clinch fastening, or riveting. Wire tying of framing members is not permitted.
    - a. Comply with AWS D1.3/D1.3M requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.
    - b. Locate mechanical fasteners, install in accordance with Shop Drawings, and comply with requirements for spacing, edge distances, and screw penetration.
- H. Install framing members in one-piece lengths unless splice connections are indicated for track or tension members.
- Install temporary bracing and supports to secure framing and support loads equal to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.
- J. Do not bridge building expansion joints with cold-formed steel framing. Independently frame both sides of joints.

# K. Stud Walls

- Install components in accordance with manufacturers' instructions and ASTM C1007 requirements.
- 2. Align floor and ceiling tracks; locate to wall layout. Secure in place with fasteners at maximum 24 inches (600 mm) on center. Coordinate installation of sealant with floor and ceiling tracks.
- 3. Place studs at 12 inches (300 mm) on center; not more than 2 inches (50 mm) from abutting walls and at each side of openings. Connect studs to tracks using clip and tie method.
- 4. Construct corners using minimum of three studs. Install double studs at wall openings, door and window jambs.
- 5. Install load-bearing studs full length in one piece. Splicing of studs is not permitted.
- 6. Install load-bearing studs, brace, and reinforce to develop full strength and achieve design requirements.
- 7. Coordinate placement of insulation in multiple stud spaces made inaccessible after erection.
- 8. Install intermediate studs above and below openings to align with wall stud spacing.

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- 9. Provide deflection allowance in stud track, directly below horizontal building framing at non-load bearing framing.
- 10. Attach cross studs to studs for attachment of fixtures anchored to walls.
- 11. Install framing between studs for attachment of mechanical and electrical items, and to prevent stud rotation.

# 3.03 TOLERANCES

- A. Install cold-formed steel framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 ft. (1:960) and as follows:
  - 1. Space individual framing members no more than plus or minus 1/8 inch (3 mm) from plan location. Cumulative error are not to exceed minimum fastening requirements of sheathing or other finishing materials.

# 3.04 REPAIR

A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed steel framing with galvanized repair paint in accordance with ASTM A780/A780M and manufacturer's written instructions.

# 3.05 PROTECTION

A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that cold-formed steel framing is without damage or deterioration at time of Substantial Completion.

# **END OF SECTION**

# SECTION 061000 ROUGH CARPENTRY

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Roof-mounted curbs.
- B. Roofing nailers.
- C. Preservative treated wood materials.
- D. Fire retardant treated wood materials.
- E. Communications and electrical room mounting boards.
- F. Concealed wood blocking, nailers, and supports.

# 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements

# 1.03 REFERENCE STANDARDS

- A. ASTM A153/A153M Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2016a.
- B. ASTM C557 Standard Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing; 2003 (Reapproved 2017).
- C. ASTM D3498 Standard Specification for Adhesives for Field-Gluing Wood Structural Panels (Plywood or Oriented Strand Board) to Wood Based Floor System Framing; 2019a.
- D. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials; 2021a.
- E. AWPA U1 Use Category System: User Specification for Treated Wood; 2018.
- F. PS 20 American Softwood Lumber Standard; 2020.

# 1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

# 1.05 DELIVERY, STORAGE, AND HANDLING

- A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.
- B. Fire Retardant Treated Wood: Prevent exposure to precipitation during shipping, storage, and installation.

# **PART 2 PRODUCTS**

# 2.01 GENERAL REQUIREMENTS

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
  - If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
  - Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

# 2.02 DIMENSION LUMBER

- A. Sizes: Nominal sizes as indicated on drawings, S4S.
- B. Moisture Content: S-dry or MC19.

- C. Rough lumber shall be grade #2 or better, dressed four sides, of spruce, pine, douglas fir, or equal, in shapes and sizes as required.
- D. Structural lumber shall be grade #2 or better kiln dried, 1,000 psi bending, unless noted elsewhere (spruce/pine/fir).
- E. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
  - 1. Lumber: S4S, No. 2 or Standard Grade.
  - 2. Boards: Standard or No. 3.

#### 2.03 CONSTRUCTION PANELS

A. General Plywood shall be CDX Grade, with exterior glue - such as 1/2" thick shall be 4 ply.

#### 2.04 ACCESSORIES

- A. Fasteners and Anchors:
  - 1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
  - 2. Drywall Screws: Bugle head, hardened steel, power driven type, length three times thickness of sheathing.
  - 3. Anchors: Toggle bolt type for anchorage to hollow masonry.
  - 4. Install all work with nails, spikes, screws, joist hangers and similar items of approved sizes and types. Exterior framing anchors to be galvanized.
- B. Construction Adhesives: Adhesives complying with ASTM C557 or ASTM D3498.

#### 2.05 FACTORY WOOD TREATMENT

- A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
  - 1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
  - 2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

#### B. Fire Retardant Treatment:

- Interior Type A: AWPA U1, Use Category UCFA, Commodity Specification H, low temperature (low hygroscopic) type, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes. Each piece of lumber and plywood shall be U.L. labeled. Install per code requirements.
  - a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
  - b. Treat rough carpentry items as indicated .
  - c. Do not use treated wood in applications exposed to weather or where the wood may become wet.

# C. Preservative Treatment:

- 1. Preservative Pressure Treatment of Lumber Above Grade: AWPA U1, Use Category UC3B, Commodity Specification A using waterborne preservative.
  - a. Kiln dry lumber after treatment to maximum moisture content of 19 percent.
  - b. Treat lumber exposed to weather.
  - c. Treat lumber in contact with roofing, flashing, or waterproofing.
  - d. Treat lumber in contact with masonry or concrete.
- 2. Preservative Pressure Treatment of Plywood Above Grade: AWPA U1, Use Category UC2 and UC3B, Commodity Specification F using waterborne preservative.
  - a. Kiln dry plywood after treatment to maximum moisture content of 19 percent.
- 3. Preservative Pressure Treatment of Lumber in Contact with Soil: AWPA U1, Use Category UC4A, 1,200 psi construction grade, Commodity Specification A using waterborne

preservative.

- a. Preservative for Field Application to Cut Surfaces: As recommended by manufacturer of factory treatment chemicals for brush-application in the field.
- b. Restrictions: Do not use lumber or plywood treated with chromated copper arsenate (CCA) in exposed exterior applications subject to leaching.

# **PART 3 EXECUTION**

# 3.01 INSTALLATION - GENERAL

- Select material sizes to minimize waste.
- B. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.
- C. Install all temporary guardrails, walks, forms, bracing, shoring, etc., as required for the work or safety.
- D. Install any necessary temporary enclosures for door openings, barricades, etc., to close off work for security or moisture/temperature protection.
- E. See Concrete Division #3 for formwork.
- F. Unless otherwise noted, install all nailers or plates on beams or masonry walls per Michigan Building Code and secure with 1/2" diameter bolts, spaced 4'-0" on center with (2) anchors minimum per piece and not closer than 4" or greater than 12" from each end. Provide and install nuts/washers/plates of proper size per code.
- G. Provide all necessary framing around ductwork, registers, vents, etc. Included are nailers and blocking for drywall, cabinets, grab bars, handrails, toilet partitions, window drapes (2x12 each side of window), etc.
- H. Provide and install fire blocking in walls at 10'-0" height, at ceiling lines, behind soffits, around modular tub/shower units, etc., as noted or required by code. Draft stops shall consist of 1/2" CDX plywood.

# 3.02 BLOCKING, NAILERS, AND SUPPORTS

- A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.
- B. In framed assemblies that have concealed spaces, provide solid wood fireblocking as required by applicable local code, to close concealed draft openings between floors and between top story and roof/attic space; other material acceptable to authorities having jurisdiction may be used in lieu of solid wood blocking.
- C. In metal stud walls, provide continuous blocking around door and window openings for anchorage of frames, securely attached to stud framing.
- D. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.
- E. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.
- F. Provide the following specific nonstructural framing and blocking:
  - 1. Cabinets and shelf supports.
  - 2. Wall brackets.
  - 3. Wall-mounted door stops.
  - 4. Joints of rigid wall coverings that occur between studs.

# 3.03 ROOF-RELATED CARPENTRY

A. Coordinate installation of roofing carpentry with deck construction, framing of roof openings, and roofing assembly installation.

B. Provide wood curb at each roof opening except where specifically indicated otherwise; form corners by alternating lapping side members.

# **END OF SECTION**

# SECTION 062000 FINISH CARPENTRY

## **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Finish carpentry items.
- B. Plastic Laminate decorative panel.

# 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements
- C. Section 064100 Architectural Wood Casework: Shop fabricated custom cabinet work.

# 1.03 REFERENCE STANDARDS

- A. AWI/AWMAC/WI (AWS) Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).
- B. AWMAC/WI (NAAWS) North American Architectural Woodwork Standards, U.S. Version 4.0; 2021
- C. NEMA LD 3 High-Pressure Decorative Laminates; 2005.

#### 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
  - 1. Provide information as required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
  - 2. Provide actual (not digital) color samples.

## 1.05 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.

# 1.06 DELIVERY, STORAGE, AND HANDLING

- A. Protect from moisture damage.
- B. All finish materials shall be installed under conditions of temperature and humidity closely approximating those, which will exist when the building is occupied. Proper on site storage shall be provided. Cover to protect from rain all lumber. All trim finish flooring, etc., shall be stored inside building minimum of 48 hours before installing.

#### PART 2 PRODUCTS

#### 2.01 FINISH CARPENTRY ITEMS

- Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Unless otherwise shown on drawings, finish work, designated to receive paint shall be clear stock or may have tight knots or other similar characteristics not visible after finishing. "B" and better, clear white pine, or equal.

# 2.02 PLASTIC LAMINATE MATERIALS

- Plastic Laminate untertops: High-pressure decorative laminate (HPDL) sheet bonded to substrate.
  - Laminate Sheet: NEMA LD 3, Grade HGS, 0.048 inch (1.2 mm) nominal thickness, ; color as selected by Architect; ; finish as selected.
- B. Laminate Backing Sheet: NEMA LD 3, BKL; undecorated plastic laminate.
- C. Laminate Adhesive: Type recommended by laminate manufacturer to suit application; not containing formaldehyde or other volatile organic compounds.

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#### 2.03 FABRICATION

- A. All millwork shall be shop built insofar as possible.
- B. Shop assemble work for delivery to site, permitting passage through building openings.
- C. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
- D. Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs. (Locate counter butt joints minimum 600 mm from sink cut-outs.)
- E. Apply laminate backing sheet to reverse face of plastic laminate finished surfaces.

# **PART 3 EXECUTION**

#### 3.01 INSTALLATION

- A. Install custom fabrications in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
- B. Set and secure materials and components in place, plumb and level.
- C. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch (0.79 mm). Do not use additional overlay trim to conceal larger gaps. Where irregularities or gaps exist between trim and adjoining materials, provide and install matching trim and/or caulk, but only where allowed by the Architect.
- D. Finish work shall be installed with close miters, coped at angles, full lengths where possible and secured with finishing nails, screws and glue. Set all fasteners for putty.
- E. Install shelf standards with anchors into studs or wood back-up blocking (no toggles) for heavy duty installation. Provide size and number of shelf units as shown on drawings.

**END OF SECTION** 

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# SECTION 068316 FIBERGLASS REINFORCED PANELING

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Fiberglass reinforced plastic panels.
- B. Trim.

# 1.02 REFERENCE STANDARDS

- A. ASTM D256 Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics; 2010 (Reapproved 2018).
- B. ASTM D2583 Standard Test Method for Indentation Hardness of Rigid Plastics by Means of Barcol Impressor; 2013a.
- C. ASTM D5319 Standard Specification for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels; 2017.
- D. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials; 2021a.
- E. FDA Food Code Chapter 6 Physical Facilities; Current Edition.
- F. FM 4880 Approval Standard for Class 1 Fire Rating of Building Panels or Interior Finish Materials; 2015.

#### 1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

#### **PART 2 PRODUCTS**

#### 2.01 MANUFACTURERS

- A. Fiberglass Reinforced Plastic Panels:
  - 1. Crane Composites, Inc: www.cranecomposites.com/#sle.
  - 2. Marlite, Inc: www.marlite.com/#sle.

# 2.02 PANEL SYSTEMS

- A. Wall Panels:
  - 1. Panel Size: 4 by 8 feet (1.2 by 2.4 m).
  - 2. Panel Thickness: 0.10 inch (2.5 mm).
  - 3. Surface Design: Embossed.
  - 4. Color: As selected by Architect.
  - 5. Attachment Method: Adhesive only, sealant joints, no trim.

# 2.03 MATERIALS

- A. Panels: Fiberglass reinforced plastic (FRP), complying with ASTM D5319.
  - 1. Surface Burning Characteristics: Maximum flame spread index of 25 and smoke developed index of 450; when system tested in accordance with ASTM E84.
  - 2. Class 1 fire rated when tested in accordance with FM 4880.
  - 3. Scratch Resistance: Barcol hardness score greater than 35, when tested in accordance with ASTM D2583.
  - 4. Impact Strength: Greater than 6 ft lb force per inch (320 J per m), when tested in accordance with ASTM D256.
  - 5. Surface Characteristics and Cleanability: Provide products that are smooth, durable, and easily cleanable, in compliance with FDA Food Code, Chapter 6 Physical Facilities.
- B. Trim: Vinyl; color coordinating with panel.
- C. Sealant: Type recommended by panel manufacturer; color matching panel.

# **PART 3 EXECUTION**

# 3.01 INSTALLATION - WALLS

- A. Install panels in accordance with manufacturer's instructions.
- B. Cut and drill panels with carbide tipped saw blades, drill bits, or snips.
- C. Apply adhesive to the back side of the panel using trowel as recommended by adhesive manufacturer.
- D. Apply panels to wall with seams plumb and pattern aligned with adjoining panels.
- E. Install panels with manufacturer's recommended gap for panel field and corner joints.
- F. Place trim on panel before fastening edges, as required.
- G. Fill channels in trim with sealant before attaching to panel.
- H. Install trim with adhesive and screws or nails, as required.
- I. Seal gaps at floor, ceiling, and between panels with applicable sealant to prevent moisture intrusion.
- J. Remove excess sealant after paneling is installed and prior to curing.

# **END OF SECTION**

# SECTION 075323 EPDM THERMOSET SINGLE-PLY ROOFING - CARLISLE

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Adhered roof system with ethylene propylene diene monomer (EPDM) roofing membrane.
- B. Insulation, flat and tapered.
- C. Flashings.
- D. Roofing cant strips, stack boots, roofing expansion joints, and walkway pads.
- E. Metal Roof Edge
- F. Copings
- G. Expansion Joints

# 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements

# 1.03 REFERENCE STANDARDS

- A. ASTM D4637/D4637M Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane; 2015.
- B. FM DS 1-29 Roof Deck Securement and Above-Deck Roof Components; 2016, with Editorial Revision (2022).
- C. NRCA (RM) The NRCA Roofing Manual; 2024.

#### 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's written information listed below.
  - 1. Product data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.
- C. Shop drawings must be submitted to Carlisle by the Carlisle Authorized Roofing Applicator along with a completely executed Notice of Award (Page 1 of Carlisle's Request for Warranty form) for approval. Approved shop drawings are required for inspection of the roof and on projects where on-site technical assistance is requested.
- D. Shop Drawings must include:
  - 1. Outline of roof and size
  - 2. Deck type (for multiple deck types)
  - 3. Location and type of all penetrations
  - 4. Perimeter and penetration details
  - 5. Key plan (on multiple roof areas) with roof heights indicated
  - 6. Sure-Seal Fastener type, length and maximum spacing or Fast Adhesive ribbon spacing (for insulation securement)
- E. Along with the project submittals (shop drawing and Request for Warranty), the roofing contractor must include pullout test results when the results are below the requirements identified in the Table included in Design Reference DR-06-11 "Withdrawal Resistance Criteria".
- F. Upon completion of half the project, the contractor shall notify Carlisle and pay any fee to make "mid-way inspection" to ensure work is being installed per the manufacturer's standard details. Note: no more than 50% of the contact amount will be paid to the Contractor prior to this inspection being made by the roofing manufacturer.
- G. After project completion, the Contractor must be submitted a Notice of Completion, (Page 2 of the Carlisle Request for warranty form) to Carlisle to schedule the necessary inspection and

acceptance of the project prior to issuance of the Carlisle warranty. An inspection shall be made by a representative of Carlisle SynTec Systems in order to ascertain that the Roofing System has been installed according to Carlisle SynTec System's published specifications and details.

- H. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- I. Manufacturer's Field Reports: Indicate procedures followed, ambient temperatures, humidity, wind velocity during application, and other supplementary instructions.
- J. Warranty:
  - Upon approval of the installation, Carlisle shall submit a watertight full system guarantee
    for twenty (20) years against defects due to material or workmanship. This shall not be
    construed to cover misuse or abuse. The warranty shall include wind speed (Maximum
    Peak Gusts) up to 72 mph. Also, a manufacturer's guarantee shall be submitted for twenty
    (20) years on the membrane materials.
  - 2. Total System Warranty Contractor shall state the amounts on the bid proposal form to provide and install only materials from among those supplied or approved by Carlisle for the total roofing system. All components of the entire roofing system are to be products of the manufacturer or accepted by the manufacturer as compatible. Upon approval of the installation, the manufacturer shall submit their standard full systems guarantee for (20) years against defects due to material or workmanship and their standard guarantee on membrane material both by manufacturer. This shall not be construed to cover misuse or abuse. The Contractor shall list the manufacturer's name of the roofing system bid on the total system bid proposal form.

# 1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum twenty (20) years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of this section:
  - 1. With minimum five years documented experience.
  - 2. Franchised Installer Roofing Contractor shall be franchised installers by the manufacturer of the roofing system.
  - 3. Experience Roofing Contractor shall have been in the roofing business for the last five, (5) years as Roofing Installers. Contractor shall have a minimum of 5 years' experience and have installed a minimum of five, (5) re-roofs similar to this project size or larger using the materials and manufacturers as herein specified. Written verification shall be submitted with bid proposal, stating references and jobs similar in scope of this project.
  - 4. Location Roofing Contractors shall be located within approximately a fifty (50) mile radius of the City of Monroe, Michigan.
  - 5. Worker's Qualifications:
    - a. Workmanship shall be of the highest standard throughout and in accordance with the latest and best standard practices of the trade. Only skilled workmen in the task assigned them shall be employed.
    - b. A Roofer shall have a minimum of two years' experience installing the material herein specified, or certification from the roofing manufacturer or from a Federal or Michigan State approved program, or trade school, or certification from a local trade union having the classification of a journeyman.
    - c. A Roofer's helper shall be anyone performing roofing related work (excluding the installation of roofing materials), such as tear-offs, carrying materials, mixing materials, cleaning up, etc.
    - d. An apprentice Roofer is one who is registered in a bonafide program as registered with the U.S. or State of Michigan Department of Labor.
    - e. The proportion of apprentices and helpers shall not exceed (1) helper and/or (1) apprentice to every (3) Roofers. An apprentice may do the work of a helper.

# 1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.

- B. Protect products in weather protected environment, clear of ground and moisture.
- C. Protect foam insulation from direct exposure to sunlight.
- D. Keep Safety Data Sheets (SDS) at the project site at all times during transportation, storage, and installation of materials.
- E. Comply with requirements from Owner to prevent overloading or disturbance of the structure when loading materials onto the roof.

#### 1.07 WARRANTY

- A. See Section 017800 Closeout Submittals, for additional warranty requirements.
- B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.
  - 1. Warranty Term: 20 years.
  - 2. For repair and replacement include costs of both material and labor in warranty.
  - 3. Exceptions NOT Permitted:
    - a. Damage due to roof traffic.
    - b. Damage due to wind of speed greater than 56 mph (90 km/h) but less than 90 mph (145 km/h).

# **PART 2 PRODUCTS**

#### 2.01 MANUFACTURER

- A. Carlisle SynTec: www.carlisle-syntec.com/#sle.
- B. The following roofing system manufacturers, in addition to Carlisle, have submitted written documentation of products, guarantee, testing, etc., and are approved by the Architect.
  - 1. Firestone "Rubbergard" Fully Adhered 60 Mil
- C. Substitutions: See Section 016000 Product Requirements.

# 2.02 ROOFING APPLICATIONS

- A. Furnish and install Bonded, Sure Seal, Design "A" Rubber Membrane Roofing System indicated on drawings and specified herein.
- B. Roofing Assembly Performance Requirements and Design Criteria:

# 2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

- A. Membrane:
  - Material: Ethylene propylene diene monomer (EPDM); ASTM D4637/D4637M, Type I (non-reinforced).
  - 2. Thickness: 60 mil, 0.060 inch (1.5 mm), minimum.
  - 3. Sheet Width: Factory fabricated into largest sheets possible.
  - 4. Color: Black.
- B. Seaming Materials: As recommended by membrane manufacturer.
- C. Flexible Flashing Material: Same material as membrane.
- D. Base Flashing: Provide waterproof, fully adhered base flashing system at all penetrations, plane transitions, and terminations.

# 2.04 INSULATION

A. Standard insulation on metal deck shall be nominal 2.6" thickness, with a minimum aged "R" Value of 15.0, installed in two layers with staggered seams as noted on plans, (total R-30.0) when tested per ASTM C1289-11A effective January 1, 2014, of closed cell isocyanurate core with fibrous mat facings, equal to Carlisle InsulBase Polyisocyanurate, Grade 3, (25 psi.) insulation or other F.M. approved insulations, as manufactured by Carlisle, or equal as approved by the roofing membrane manufacturer. Adjust nailer thickness accordingly. Before ordering, submit approved letter from insulation manufacturer to the Architect that this insulation is approved by the roofing membrane system manufacturer (Carlisle), and will be included in their full systems twenty (20) year warranty.

B. Tapered Insulation - Shall be Polyisocyanurate tapered board - minimum of 1/2" thick Grade 3, (25 psi). Taper to be minimum 1/8" per foot slope or as noted on plans. Stagger all joints and lay in ashlar pattern. Note tapered insulation to be covered with standard insulation to allow bonding to roof membrane. Before ordering, submit approved letter from insulation manufacturer to Architect that this insulation is approved by the Roofing Membrane System Manufacturer (Carlisle) and will be included in their full systems warranty.

#### 2.05 ACCESSORIES

- A. Prefabricated Roofing Expansion Joint Flashing: Sheet butyl over closed-cell foam backing seamed to galvanized steel flanges.
- B. Prefabricated Flashing Accessories:
  - Corners and Seams: Same material as membrane, in manufacturer's standard thicknesses.
  - 2. Penetrations: Same material as membrane, with manufacturer's standard cut-outs, rigid inserts, clamping rings, and flanges.
  - 3. Sealant Pockets: Same material as membrane, with manufacturer's standard accessories, in manufacturer's standard configuration.
  - 4. Sure-Seal Pressure-Sensitive Reinforced Universal Securement Strip (RUSS):
- C. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.
  - 1. Length as required for thickness of insulation material and penetration of deck substrate.
- D. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.
- E. Sealants: As recommended by membrane manufacturer.
- F. Cleaner: Manufacturer's standard, clear, solvent-based cleaner.
- G. Wood Nailers Shall be #2 or better lumber, 2"x 6" minimum, weather resistant, pressure treated of sizes as noted or as required. Plywood to be C.D.X. grade and also pressure treated. Nails and anchors shall be hot dipped or hot tumbled, corrosion resistant galvanized steel. Wood nailers at perimeter of roof shall be installed in accordance with F.M. (I-90) guidelines. Existing wood nailers shall be re-anchored in a similar pattern. Galvanized nails or screws shall be installed to penetrate the bottom nailer a minimum of 1-1/4", using a staggered fastening pattern in two rows at 24" on center in each row (12" on center). Fastener pattern density shall be increased within 8' of roof corners in two rows at 12" on center in each row (6" on center). Contractor shall verify that all existing nailers are anchored to decking and/or wall plates similar to the pattern as listed above, or anchored to masonry and structural steel 4'-0" on center, with 1/2" diameter anchor bolts and 5/8" diameter washers.
- H. Edgings and Terminations: Manufacturer's standard edge and termination accessories.
  - Product: Snap-on edge system.
    - a. SecurEdge 200.
  - 2. Product: Coping.
    - SecurEdge 200 Coping.
  - 3. In lieu of Carlisle Secure Edge gravel stop and coping, it shall be the Contractor's option to provide and install all materials and labor required to install an equal metal fascia/gravel stop, similar in style, function and appearance, as approved by the roofing manufacturer to be included in the twenty (20) year Total System Warranty. Finish and gauge to be as specified above.
  - 4. Provide any matching drip extenders to cover all exposed wood nailers, common brick, etc., to same elevation as existing fascia being removed. Install matching joint covers, mitered outside corners, and inside cover plates, water dams, clips, anchors, etc., as part of the complete system.
  - 5. Termination Bar Shall be aluminum of thickness and width as required by Carlisle. Shall be anchored with approved fasteners in spacing's to make bar stop tight against flashing and wall with proper sealant between (Carlisle Water Cut Off).
- I. Roof Drain

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- 1. Roof drain shall be #ZC-100EARC as manufactured by Zurn, or approved equal with Duracoated cast iron body, with extension, roof sump receiver and under-deck clamp. Drain shall have combination membrane flashing clamp/gravel guard and low-silhoette cast iron dome strainer, secured with easily removed anchors for cleaning. Drain to be for 3" no-hub fittings.
- 2. Drainage pipe shall be service weight cast iron hubless CISPI 3001-85, ASTM A-888-90. Fittings shall be soil pipe coupling clamp-all Corp., Model 0, or Husky 4000.
- 3. Piping, roof sump and fittings shall be insulated with 1" thick fiberglass, nominal 4 lb. density with All Service Jacket (ASJ). Cold systems shall have a vapor barrier. Fittings, etc. may be covered with Zeston, or equal pre-molded fittings. Pre-molded sump covers by Armaflex (or similar materials) are not acceptable.

#### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that surfaces and site conditions are ready to receive work.
- B. Verify deck is supported and secure.
- C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- D. Verify deck surfaces are dry and free of snow or ice.
- E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

## 3.02 PREPARATION, GENERAL

- A. Clean substrate thoroughly prior to roof application.
- B. Surfaces on which the Sure Seal Roofing System is to be applied shall be clean, smooth, dry, free of fins, sharp edges, loose and foreign materials, oil and grease.
- C. Spud off all existing roofing to gypsum decks, as shown on plans and remove from job site in areas where noted. Be careful not to destroy or disturb any electrical conduits on bottom side of deck.
- D. Do not begin work until other work that requires foot or equipment traffic on roof is complete.
- E. Apply manufacturer's recommended vapor retarder or temporary roof before roof installation.
- F. Install wood nailer at the perimeter of the roof and around all roof vents and any similar penetrations. The nailer shall be secured mechanically to the roof deck. The thickness of the nailer shall be as shown, or tapered such that the top of the nailer is flush with the surface to which the membrane is to be applied. Anchors to be of type and spacing's as approved by Carlisle and the Architect.
- G. Auger and clean all roof drains before beginning any work
- H. Before beginning work, a representative of Carlisle SynTec Systems shall examine the roof surfaces in order to insure that existing conditions are acceptable.

# 3.03 INSTALLATION - GENERAL

- A. Perform work in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.
- B. The Architect's drawings and specifications are developed and provided to the Contractor to understand the design intent of the contract. Where these details are in conflict with the standard details, recommendations and specifications of the membrane manufacturer, or affect the guarantee, they shall be modified as required by the Contractor and approved by the Architect at no additional cost to the contract.
- C. All installation and materials used in Sure Seal Universal Roofing Systems shall be as furnished and specified and conforming to all physical properties as manufactured by Carlisle SynTec Systems, a Division of Carlisle Corporation, Carlisle, PA. All details of work shall be coordinated and approved with Carlisle Corporation before starting work.

- D. Do not apply roofing membrane during unsuitable weather.
- E. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
- F. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- G. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.
- H. Coordinate the work with installation of associated counter flashings installed by other sections as the work of this section proceeds.
- I. When substrate preparation is responsibility of another installer, notify Architect of unsatisfactory conditions before proceeding.

# 3.04 INSULATION APPLICATION

- Apply vapor retarder to deck surface with adhesive in accordance with manufacturer's instructions.
  - Extend vapor retarder under cant strips and blocking to deck edge.
  - 2. Install flexible flashing from vapor retarder to air seal material of wall construction, lap and seal to provide continuity of the air barrier plane.
- B. Ensure vapor retarder is clean and dry, continuous, and ready for application of insulation.
- C. Carlisle Sure Seal Bonded Roofing System Shall be applied over an approved insulation, bonded to the existing roof deck with a Factory Mutual approved system. Install starting from the high point of the roof and working to the low point. Lap all seams shingle fashion in direction of drainage.
- D. Attachment of Insulation:
  - 1. Mechanically fasten insulation to deck in accordance with roofing manufacturer's instructions and Factory Mutual FM DS 1-29 requirements.
  - 2. Insulation on roof decks shall be installed with standard insulation as specified first and followed by tapered insulation. Adjust lengths of fasteners according to thickness of insulation. Type of screw fastener, fastener pattern, etc., shall be installed as required by insulation mfr., similar to the F.M. I-90 wind up-lift requirements for metal decks. Contractor shall perform a minimum of (5) anchor pull-out tests on each roof area with the proposed membrane underlayments and fastener to assure compliance with insulation manufacturer's written recommendations. Contractor shall submit written report of pull out tests to the Architect for approval prior to ordering insulation, anchors and roofing. Pull out resistance must meet the membrane manufacturer's requirements.
- E. Lay subsequent layers of insulation with joints staggered minimum 6 inches (152 mm) from joints of preceding layer.
- F. Place tapered insulation to the required slope pattern in accordance with manufacturer's instructions.
- G. Lay boards with edges in moderate contact without forcing, and gap between boards no greater than 1/4 inch (6.4 mm). Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
- H. At roof drains, use factory-tapered boards to slope down to roof drains over a distance of 18 inches (457 mm).
- Do not apply more insulation than can be completely waterproofed in the same day.

# 3.05 MEMBRANE APPLICATION

- A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
- B. Shingle joints on sloped substrate in direction of drainage.
- C. Fully Adhered Application: Membrane shall be bonded to the insulation and substrate with the bonding adhesive recommended by the Roofing System manufacturer and shall be installed in strict conformance with the manufacturer's specifications for the "Bonded Roofing System" -

- Design "A". Bonding Adhesive must be applied to both the membrane and the surface to which it is being bonded.
- D. Adjoining sheets of Membrane are overlapped a minimum of 3" along the length of the membrane (at selvage edged) in preparation for membrane splicing. At end laps (along the width of the sheet), membrane shall be overlapped 1/2" to 1" which will be overlaid with 6" wide Pressure-Sensitive Flashing. Note: all splices shall be overlaid with 6" wide Pressure-Sensitive Flashing for a 20-year warranty.
- E. All field splices of roofing membrane shall be installed using the double sided adhesive tape method with membrane thoroughly cleaned with "splice-wash", as manufactured and specified by Carlisle. Tape width shall be minimum of 6". Coat edge of final seam with lap sealant.
- F. Membrane Splicing with SecureTape:
  - 1. Prime the splice area with Sure-Seal Primer.
  - 2. Apply SecureTape to bottom membrane sheet with the edge of the release film along a line marked 1/2" out from the top sheet. Press tape onto sheet using hand pressure, overlapping tape, roll ends a minimum of 1".
  - 3. Remove the release film and press the top sheet onto the tape using hand pressure. Roll the splice with a 2" wide steel roller.
  - 4. Install a 6" wide section of Pressure-Sensitive Flashing or Elastoform Flashing over all field splice intersections and seal edges of flashing with Lap Sealant.
  - 5. The use of Lap Sealant along the entire splice edge is optional, except at tape overlaps.
- G. Membrane Splicing with Splicing Cement:
  - 1. When using Sure-Seal (black) Membrane, cleaning the splice area is not required unless the membrane has been contaminated with field dirt, adhesive or other residue.
  - 2. Apply Splicing Cement at a rate of approximately 100 square feet per gallon. Just prior to closing the splice, apply a 1/8" to 1/4" diameter bead of In-Seam Sealant a minimum of 1/2" from the inside edge of the bottom membrane and a minimum of 2" from the lead edge.
  - 3. Roll the top membrane sheet onto the mating surface and roll the splice with a 2" wide steel roller.
  - 4. After adjoining membrane sheets have been splice together, wait a minimum of 2 hours and, if necessary, clean exposed edge of splice with Splice Cleaner or HP-250 Primer. Apply a 5/16" diameter bead of Lap Sealant and feather to completely cover the splice edge.

# H. Flashing

- 1. When feasible, flash all walls, curbs, etc., with continuous deck membrane. When the use of continuous membrane is not feasible, a separate piece of Cured EPDM Flashing, or Uncured Membrane may be utilized.
- Uncured Elastoform Flashing and Pressure-Sensitive Uncured Flashing shall be limited to overlaying vertical field seams, inside/outside corners, scuppers or other unusually shaped walls or penetrations; where use of Cured EPDM Flashing, EPDM Membrane, Pressure-Sensitive Flashing or Prefabricated accessories (pipe seals, Pourable sealer pockets, corners), is not practical.
- When using Pressure-Sensitive Flashing (semi-cured or cured) to overlay metal edging flanges, etc., Sure-Seal Primer must be used to clean the membrane and metal surfaces. Lap Sealant is optional on straight runs of Pressure-Sensitive Flashing and around Pressure-Sensitive Pipe Seals.
- 4. Terminate the flashing in accordance with the appropriate FB-9 Termination Detail.
- 5. Copings, counter flashing and metal work, not supplied by Carlisle, shall be fastened to prevent metal from pulling free or buckling and sealed to prevent moisture from entering the roofing system or building.
- I. **(for gypsum deck installation)** Insulation on roof decks shall be installed with standard insulation as specified first and followed by second layer insulation. Check to ensure the substrate is dry. FAST Adhesive cannot be applied to a wet or damp surface.
  - 1. Spray apply Sure-Seal FAST Adhesive over the dry substrate, (gypsum decks) at a coverage rate recommended by the manufacturer to allow for full coverage. (ribbons of

- adhesive greater than 6" on center will not be allowed).
- 2. Allow the adhesive to rise up approximately 1/8" and set insulation boards into adhesive. Continue to install boards into the adhesive and after the necessary set up time (will vary based on temperature and amount of catalyst added) walk the boards into the adhesive and using the 30" wide, 100-150 pound weighted steel roller to ensure full embedment. Optimal set up time should be approximately 5 to 10 minutes. One person should be designated to walk/roll in all boards and trim/slit or apply weight as needed to ensure adequate securement.
- 3. When multiple layers of insulation are specified or required, spray apply FAST Adhesive over the base layer once fully secured and follow the procedures noted above for attachment of each insulation layer.
- J. At intersections with vertical surfaces:
  - Extend membrane over cant strips and up a minimum of 4 inches (102 mm) onto vertical surfaces.
  - 2. Provide and install all necessary bar stops as detailed or required to terminate flashings.
  - 3. Install sealant on top in all exposed areas to adhere to the bar stop and masonry. Shall be as approved by manufacturer (Carlisle Lap Sealant).
- K. Install roofing expansion joints where indicated, and ensure joints are watertight.
- L. Install prefabricated joint components in accordance with manufacturer's instructions.
- M. Install fascia, roof edge, copings in strict conformance with Carlisle's specifications. Install clips, anchors, mitered corners, etc. Seal all fasteners with elastoform lap splice and sealant on topside of gravel stop.
- N. Coordinate installation of roof drains and sumps and related flashings, locate field splices away from low areas and roof drains, and lap upslope sheet over downslope sheet. Support new cast iron horizontal pipe at each joint and not more than 5' intervals. Where no-hub fittings are utilized, install hangers per manufacturer's installation instructions, or install hanger each side of no-hub fittings and at 5' intervals. New cast iron drainage piping shall connect into existing cast iron drainage piping, above the suspended ceiling, using appropriate cast iron, no-hub wye fittings with clean-out.
- O. Daily Seal: Install daily seal per manufacturers instructions at the end of each work day. Prevent infiltration of water at incomplete flashings, terminations, and at unfinished membrane edges.

## 3.06 RELATED WORK

- A. Where noted on drawings, or where required in areas of new roofing, re-work all electrical conduits, wiring, gas lines, control wiring, etc.
- B. Provide and install all necessary blocking, clamps, fasteners, fittings, elbows, junction boxes, etc., as required.

## 3.07 FIELD QUALITY CONTROL

- A. See Section 014000 Quality Requirements, for general requirements for field quality control and inspection.
- Require site attendance of roofing and insulation material manufacturers daily during installation of this work.

## 3.08 CLEANING

- A. See Section 017419 Construction Waste Management and Disposal, for additional requirements.
- B. Remove wrappings, empty containers, paper, and other debris from the roof daily. Dispose of debris in compliance with local, State, and Federal regulations.
- C. Remove bituminous markings from finished surfaces.
- D. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.

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E. Repair or replace defaced or damaged finishes caused by work of this section.

# 3.09 PROTECTION

- A. Protect installed roofing and flashings from construction operations.
- B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

# **END OF SECTION**

## SECTION 078400 FIRESTOPPING

## **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Firestopping systems.
- B. Firestopping of joints and penetrations in fire-resistance-rated and smoke-resistant assemblies, whether indicated on drawings or not, and other openings indicated.

# 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements

#### 1.03 REFERENCE STANDARDS

- A. ITS (DIR) Directory of Listed Products; current edition.
- B. FM (AG) FM Approval Guide; current edition.
- C. UL (FRD) Fire Resistance Directory; Current Edition.

#### 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance ratings, and limitations.

## 1.05 QUALITY ASSURANCE

- A. Fire Testing: Provide firestopping assemblies of designs that provide the scheduled fire ratings when tested in accordance with methods indicated.
  - Listing in UL (FRD), FM (AG), or ITS (DIR) will be considered as constituting an acceptable test report.
  - 2. Valid evaluation report published by ICC Evaluation Service, Inc. (ICC-ES) at www.icc-es.org will be considered as constituting an acceptable test report.
  - Submission of actual test reports is required for assemblies for which none of the above substantiation exists.

## 1.06 FIELD CONDITIONS

A. Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation; maintain minimum temperature before, during, and for three days after installation of materials.

# **PART 2 PRODUCTS**

## 2.01 MATERIALS

- A. Fire Stop Insulation Shall be "ThermaFiber Fire Safing Insulation" unfaced, flame spread 15, smoke develop 0, as manufactured by Thermafiber Inc, Toledo, Oh. (888-834-2371) Blanket size is 4" thick x 24" x 48".
- B. Fire Stopping One part silicone sealant equal to Dow Corning 3-6548 RTV foam, flame spread of 20 per ASTM E-84-76A or Tremco "TREMstop Fyre Sil".
- C. Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories: Provide type of materials as required for tested firestopping assembly.
- D. Fire Ratings: Refer to drawings for required systems and ratings.

# **PART 3 EXECUTION**

# 3.01 EXAMINATION

A. Verify openings are ready to receive the work of this section.

## 3.02 PREPARATION

A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other materials that could adversely affect bond of firestopping material.

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- B. Remove incompatible materials that could adversely affect bond.
- C. Install backing materials to prevent liquid material from leakage.

# 3.03 INSTALLATION

- A. Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing openings.
- B. Joints deeper than 1/2" shall be built up to a depth of 3/8" below adjacent surfaces with approved compacted filler material prior to applying sealant.
- C. Do not cover installed firestopping until inspected by authorities having jurisdiction.

# 3.04 CLEANING

A. Clean adjacent surfaces of firestopping materials.

# 3.05 PROTECTION

A. Protect adjacent surfaces from damage by material installation.

**END OF SECTION** 

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## SECTION 079200 JOINT SEALANTS

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- Nonsag gunnable joint sealants.
- B. Joint backings and accessories.

# 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements
- Section 072500 Weather Barriers: Sealants required in conjunction with water-resistive barriers.
- D. Section 072600 Vapor Retarders: Sealants required in conjunction with vapor retarders.
- E. Section 072700 Air Barriers: Sealants required in conjunction with air barriers.
- F. Section 078400 Firestopping: Firestopping sealants.
- G. Section 079100 Preformed Joint Seals: Precompressed foam, gaskets, and strip seals.
- H. Section 079513 Expansion Joint Cover Assemblies: Sealants forming part of expansion joint cover assemblies.
- I. Section 087100 Door Hardware: Setting exterior door thresholds in sealant.
- J. Section 088000 Glazing: Glazing sealants and accessories.
- K. Section 092220 Non-Structural Metal Framing: Sealing between framing and adjacent construction in acoustical and sound-rated walls and ceilings.
- L. Section 092300 Gypsum Plastering: Sealing acoustical and sound-rated walls and ceilings.
- M. Section 093000 Tiling: Sealant between tile and plumbing fixtures and at junctions with other materials and changes in plane.

## 1.03 REFERENCE STANDARDS

A. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016.

## 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Product Data for Sealants: Submit manufacturer's technical data sheets for each product to be used, that includes the following.
  - 1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
  - 2. List of backing materials approved for use with the specific product.
  - 3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
  - 4. Substrates the product should not be used on.
  - 5. Substrates for which use of primer is required.
  - 6. Substrates for which laboratory adhesion and/or compatibility testing is required.
  - Installation instructions, including precautions, limitations, and recommended backing materials and tools.
  - 8. Sample product warranty.
- C. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.

## 1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years documented experience.

B. Installer Qualifications: Company specializing in performing the work of this section and with at least five years of documented experience.

#### 1.06 WARRANTY

- A. See Section 017800 Closeout Submittals for additional warranty requirements.
- B. Correct defective work within a five year period after Date of Substantial Completion.
- C. Warranty: Include coverage for installed sealants and accessories that fail to achieve watertight seal, exhibit loss of adhesion or cohesion, or do not cure.

## **PART 2 PRODUCTS**

## 2.01 JOINT SEALANTS - GENERAL

A. Colors: as selected from manufactures complete colors.

#### 2.02 JOINT SEALANTS

- General Exterior One part polyurethane sealant equal to Vulkem 116, or Tremco Dymonic 100.
- B. General interior Acrylic latex paintable sealant caulking equal to Tremco #834.
- C. Fire Stopping One part silicone sealant equal to Dow Corning 3-6548 RTV foam, flame spread of 20 per ASTM E-84-76A or Tremco "TREMstop Fyre Sil".
- D. Fixtures/Counters One part mildew resistant silicone equal to Dow Corning #786.
- E. Compression Joints one part, butyl #440 Tape, 1/16" or 1/8" by 3/8" or 1/2" wide in Grey or Black color as manufactured by Tremco.
- F. Asphalt Compatible Sealtight pointing mastic, available in 29 oz. cartridges as manufactured by W.R. Meadows.

#### 2.03 ACCESSORIES

- A. Primer A quick drying clear primer as recommended by manufacturer shall be used where required.
- B. Backer Rod: Cylindrical cellular foam rod with surface that sealant will not adhere to, compatible with specific sealant used, and recommended by backing and sealant manufacturers for specific application.
- C. Filler Material Polyurethane foam rod stock, non-gassing, open-cell, equal to Tundra Foam, as manufactured by Industrial Thermo Polymers Limited, 2316 Delaware Avenue, Suite 216, Buffalo, NY 14216 (212-475-2000) and as distributed by Williams Products, Inc., Troy, MI. (248-643-6400). Size shall be such that when compacted, it equals 2/3 of its original width, or as recommended by the sealant manufacturer. Tundra foam rod stock is black (ebony) color, compatible with hot pour and cold applied sealants.
- D. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.
- E. Masking Tape: Self-adhesive, nonabsorbent, non-staining, removable without adhesive residue, and compatible with surfaces adjacent to joints and sealants.

# **PART 3 EXECUTION**

### 3.01 EXAMINATION

- A. Verify that joints are ready to receive work.
- B. Verify that backing materials are compatible with sealants.
- C. Verify that backer rods are of the correct size.

#### 3.02 PREPARATION

- A. Remove loose materials and foreign matter that could impair adhesion of sealant.
- B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.

C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.

D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

#### 3.03 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Perform installation in accordance with ASTM C1193.
- C. Joints deeper than 1/2" shall be built up to a depth of 3/8" below adjacent surfaces with approved compacted filler material prior to applying sealant.
- D. Install bond breaker backing tape where backer rod cannot be used.
- E. Sealant shall be installed in strict conformance with the manufacturer's recommendations. Compounds shall generally be applied by means of a handgun. Use special nozzles as required for hard to apply areas. Exercise extreme care to prevent smearing on adjacent surfaces. A full head of sealant shall be applied into joint under sufficient pressure to fill all voids and joints solidly, drawing nozzle across sealant to leave a slightly concave surface.
- F. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
- G. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.
- H. Neatly tool joints to slightly concave surface, using tooling agent recommended by sealant manufacturer. Repair any air pockets exposed by tooling. Tool so as to compress material and improve adhesion to surfaces joined. Sealant bead shall be of width/depth and cross section as recommended by manufacturer.
- Sealed joints shall not be touched, washed, or otherwise disturbed for 48 hours, to allow sealant to cure.
- J. Final appearance of joint shall be without sags, ripples, globs and waviness. It shall be a straight, uniform sized, continuous flow of material. Work in and blend where one stroke flow ends and other begins.
- K. Joints shall be caulked before painting adjacent work. Do not paint over any sealant unless allowed by manufacturer.
- L. When concrete walks abutt vertical walls and aprons, the expansion joint material is to be held down  $\frac{1}{2}$ " and sealed flush with polyurethane sealant to not pond water.
- M. Caulk all joints as called for on the drawings, or specified herein as required to complete the work including, but not limited to, caulking of the following:
  - 1. Exterior heads and jambs of door frames.
  - 2. At intersections of aluminum work with other materials, etc.
  - 3. Under exterior door/window thresholds full bed.
  - 4. Perimeter of louvers and grills at masonry or aluminum.
  - 5. Window frames (interior and exterior).
  - 6. Wall control and expansion joints.
  - 7. Counter backsplashes, plumbing fixtures, and miscellaneous trim all against abutting walls.
  - 8. The edge and underside of asphalt shingles against metal drip edge on gable ends or other locations.
  - 9. Joints of exterior slabs/walks against buildings and in structural slabs/aprons/porches.
  - 10. In between lap joints of sills, flashing drips, 'Z' flashing and similar items.

11. Refer to drawings for other locations.

# 3.04 FIELD QUALITY CONTROL

- A. Perform field quality control inspection/testing as specified in PART 1 under QUALITY ASSURANCE article.
- B. Remove and replace failed portions of sealants using same materials and procedures as indicated for original installation.

## 3.05 POST-OCCUPANCY

A. Post-Occupancy Inspection: Perform visual inspection of entire length of project sealant joints at a time that joints have opened to their greatest width; i.e. at low temperature in thermal cycle. Report failures immediately and repair.

# **END OF SECTION**

## SECTION 083313 COILING COUNTER DOORS

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Non-fire-rated coiling counter doors and operating hardware.
- B. Fire-rated coiling counter doors and operating hardware.
- C. Alternate #2 Electric motor operation; wiring from electric circuit disconnect to operator to control station.

## 1.02 RELATED REQUIREMENTS

- A. Section 054000 Cold-Formed Metal Framing
- B. Section 079200 Joint Sealants: Sealing joints between frames and adjacent construction.
- C. Section 099123 Interior Painting: Field paint finish.
- D. Section 123600 Countertops

## 1.03 REFERENCE STANDARDS

- A. ASTM A36/A36M Standard Specification for Carbon Structural Steel; 2019.
- B. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.
- C. ASTM A666 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2015.
- D. ITS (DIR) Directory of Listed Products; current edition.
- E. NEMA MG 1 Motors and Generators; 2021.
- F. NFPA 80 Standard for Fire Doors and Other Opening Protectives; 2019.
- G. UL (DIR) Online Certifications Directory; Current Edition.

## 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Product Data: Submit manufacturer's standard literature showing materials and details of construction and finish. Include data on electrical operation.
- C. Shop Drawings: Indicate rough and actual opening dimensions, anchorage methods, hardware locations, and installation details.
- D. Project Record Documents: Include as-built electrical diagrams for electrical operation and connection to fire alarm system.

## 1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing work of type specified and with at least three years documented experience.
- B. Products Requiring Electrical Connection: Listed and classified by ITS (DIR), UL (DIR), or testing firm acceptable to authorities having jurisdiction as suitable for the purpose specified and indicated.

# 1.06 WARRANTY

- A. See Section 017800 Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide 2-year manufacturer warranty for counterbalance shaft assembly. Complete forms in Owner's name and register with manufacturer.

#### **PART 2 PRODUCTS**

#### 2.01 MANUFACTURERS

- A. Coiling Counter Doors:
  - 1. Overhead Door Corporation; Counter Door Model 651: www.overheaddoor.com/#sle.

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- 2. Wayne-Dalton, a Division of Overhead Door Corporation; Security Shutter Model 523: www.wayne-dalton.com/#sle.
- B. Coiling Counter Fire Doors:
  - Overhead Door Corporation; Fire-Rated Counter Door Model 641: www.overheaddoor.com/#sle.
  - 2. Wayne-Dalton, a Division of Overhead Door Corporation; Fire Counter Door Model 540: www.wayne-dalton.com/#sle.

# 2.02 COILING COUNTER DOORS

- A. Coiling Counter Metal Doors, Non-Fire-Rated: Stainless steel slat curtain.
  - 1. Mounting: Between jambs, within prepared opening.
  - 2. Nominal Slat Size: 1-1/4 inches (32 mm) wide.
  - 3. Slat Profile: Flat, perforated.
  - 4. Finish, Stainless Steel: No. 4 Brushed.
  - 5. Guides: Formed track; stainless steel same finish unless otherwise indicated.
  - 6. Hood Enclosure: stainless steel; same finish.
  - 7. Locking Devices: Slide bolt on inside.
- B. Coiling Counter Metal Doors, Fire-Rated: Stainless steel slat curtain.
  - 1. Mounting: Between jambs, within prepared opening.
  - 2. Fire Rating: 3/4 hour; comply with NFPA 80.
  - 3. Nominal Slat Size: 1-1/4 inches (32 mm) wide.
  - 4. Slat Profile: Flat.
  - 5. Finish, Stainless Steel: No. 4 Brushed.
  - 6. Guides: Formed track; stainless steel same finish unless otherwise indicated.
  - 7. Hood Enclosure: stainless steel; same finish.
  - 8. Alternate #2 Electric operation.

## 2.03 COMPONENTS

- A. Metal Curtain Construction: Interlocking, single-thickness slats.
  - 1. Slat Ends: Alternate slats fitted with end locks to act as wearing surface in guides and to prevent lateral movement.
  - 2. Curtain Bottom: Fitted with angles to provide reinforcement and positive contact in closed position.
  - 3. Stainless Steel Slats: ASTM A666, Type 304; minimum thickness 22 gauge, 0.03 inch (0.8 mm).
- B. Guide Construction: Continuous, of profile to retain door in place, with mounting brackets of same metal.
  - 1. Stainless Steel Guides: ASTM A666, Type 304, rollable temper.
- C. Hood Enclosure: Internally reinforced to maintain rigidity and shape.
- D. Lock Hardware:
  - 1. Alternate #2 For motor operated units, additional lock or latching mechanisms are not required.
  - 2. Slide Bolt: Provide on single-jamb side, extending into slot in guides, with padlock on one side.
- E. Roller Shaft Counterbalance: Steel pipe and torsion steel spring system, capable of producing torque sufficient to ensure smooth operation of curtain from any position and capable of holding position at mid-travel; with adjustable spring tension; requiring 25 lb (10 kg) nominal force to operate.

## 2.04 ELECTRIC OPERATION - ALTERNATE #2

- A. Operator, Controls, Actuators, and Safeties: Listed and classified by ITS (DIR), UL (DIR), or testing agency acceptable to authorities having jurisdiction (AHJ) as suitable for purpose specified and indicated.
  - 1. Provide interlock switches on motor operated units.

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- B. Electric Operators:
  - 1. Mounting: Side mounted.
  - 2. Motor Enclosure: NEMA MG 1.
  - 3. Motor Rating: As recommended by manufacturer; continuous duty.
  - 4. Motor Voltage: 110-120 VAC, single phase, 60 Hz.
  - 5. Opening Speed: 6 inches per second (150 mm/sec).
  - 6. Manual override in case of power failure.
- C. Control Station: Standard three button (OPEN-STOP-CLOSE) momentary control for each electrical operator.
  - 1. Controls: 24 VAC circuit.
  - 2. Surface mounted.
- D. Safety Edge: Located at bottom of curtain, full width, electro-mechanical sensitized type, wired to stop operator upon striking object, hollow neoprene covered.

#### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that adjacent construction is suitable for door installation.
- B. Verify that electrical services have been installed and are accessible.
- C. Verify that door opening is plumb, header is level, and dimensions are correct.
- D. Notify Architect of any unacceptable conditions or varying dimensions.
- E. Commencement of installation indicates acceptance of substrate and door opening conditions.

#### 3.02 INSTALLATION

- A. Install units in accordance with manufacturer's instructions.
- B. Install fire-rated doors in accordance with NFPA 80.
- C. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.
- Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- E. Fit and align assembly including hardware; level and plumb, to provide smooth operation.
- F. Coordinate installation of electrical service with Section 260583.
- G. Complete wiring from disconnect to unit components.
- H. Complete wiring from fire alarm system .
- Install perimeter trim as indicated.

## 3.03 ADJUSTING

A. Adjust operating assemblies for smooth and noiseless operation.

# 3.04 CLEANING

- A. Clean installed components.
- B. Remove labels and visible markings.

**END OF SECTION** 

# SECTION 092116 GYPSUM BOARD ASSEMBLIES

#### **PART 1 GENERAL**

## 1.01 SECTION INCLUDES

- Gypsum sheathing.
- B. Gypsum wallboard.
- C. Joint treatment and accessories.

#### 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements
- C. Section 072100 Thermal Insulation: Acoustic insulation.
- D. Section 072500 Weather Barriers: Water-resistive barrier over sheathing.
- E. Section 078400 Firestopping: Top-of-wall assemblies at fire-resistance-rated walls.
- F. Section 079200 Joint Sealants: Sealing acoustical gaps in construction other than gypsum board or plaster work.
- G. Section 092220 Non-Structural Metal Framing.
- H. Section 093000 Tiling: Tile backing board.

## 1.03 REFERENCE STANDARDS

- A. ASTM C475/C475M Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2017.
- B. ASTM C645 Standard Specification for Nonstructural Steel Framing Members; 2018.
- C. ASTM C754 Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2020.
- D. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board; 2020.
- E. ASTM C1002 Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2020.
- F. ASTM C1047 Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base; 2019.
- G. ASTM C1396/C1396M Standard Specification for Gypsum Board; 2017.
- H. GA-216 Application and Finishing of Gypsum Panel Products; 2018.

#### 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Shop Drawings: Indicate special details associated with fireproofing and acoustic seals.
- C. Product Data: Provide data on metal framing, gypsum board, accessories, and joint finishing system.
- D. Test Reports: For stud framing products that do not comply with ASTM C645 or ASTM C754, provide independent laboratory reports showing maximum stud heights at required spacings and deflections.

#### 1.05 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing gypsum board installation and finishing, with minimum 5 years of experience.

# **PART 2 PRODUCTS**

## 2.01 BOARD MATERIALS

A. Manufacturers - Gypsum-Based Board:

- 1. Georgia-Pacific Gypsum; ____: www.gpgypsum.com/#sle.
- 2. USG Corporation; ____: www.usg.com/#sle.
- 3. Substitutions: See Section 016000 Product Requirements.
- B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
  - 1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
  - 2. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
  - 3. Thickness:
    - a. Vertical surfaces: Min. 5/8" thick unless called out otherwise.
    - b. Ceilings: min. 5/8" thick unless called out otherwise. Overlaying existing board where sufficient support may be 1/2" min.
- C. Impact Resistant Wallboard: fire rated 5/8" thick "VHI" "Fiberock" with fiberglass reinforced backing as manufactured by USG.

# 2.02 GYPSUM WALLBOARD ACCESSORIES

- A. Acoustic Insulation: See Section 072100.
- B. Beads, Joint Accessories, and Other Trim: ASTM C1047, galvanized steel or rolled zinc, unless noted otherwise. Control joints to be zinc #093.
- C. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.
  - 1. Paper Tape: 2 inch (50 mm) wide, high strength creased paper tape for joints and corners.
  - 2. Mud/Joint compound to be conventional medium weight. No lightweight materials are acceptable.
- D. Adhesive shall be panel type adhesive, water resistant, weatherproof, non-toxic, non-flammable, non-combustible equal to "PL Premium Adhesive" and as approved by the drywall manufacturer.
- E. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inches (0.84 mm) in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosion-resistant.
- F. Anchorage to Substrate: Tie wire, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in place.

# **PART 3 EXECUTION**

## 3.01 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

#### 3.02 BOARD INSTALLATION

- A. Install gypsum board as shown on the drawings and comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations. Installation shall be a lst class job. Install with adhesive and screws. Hold drywall up from floor 1/2"+-.
- B. All ends and edges of board shall occur over backing member and/or be installed to meet a U.L. one hour or two hour fire rating as detailed. Seal all gaps against adjacent existing materials (head, sill, etc.) with sealant see Division #7.
- C. Install full height "J" trim on drywall edges where interior walls abut other materials.
- D. Fire-Resistance-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.
- E. On full height walls, floor to floor/roof deck above, install drywall to form a minimum one hour envelope unless noted otherwise. Patch drywall and compound around all structural members, ductwork/fire dampers. Continue any expansion joint, full height floor to deck. Fill gaps between wall and deck, joists, and other obstructions with fire safing insulation (see other division).

F. Refer to related mechanical/electrical drawings and drywall around all ductwork, grilles, openings, sleeves, etc. that occur in the drywall work either in exposed or unexposed locations. Seal drywall work tight to the passage of air. Special areas subject to movement are to be sealed with sealant or fire safing insulation/materials.

#### 3.03 INSTALLATION OF TRIM AND ACCESSORIES

- A. Control Joints: Install all control joints and expansion joints consistent with lines of building spaces and in locations as required, recommended manufacturer and as noted and field verified in the field with Architect. Adjust location, provide proper ceiling\wall backing and add additional joints as required to insure proper movement of wall/ceiling without cracking.
- B. Corner Beads: Install at external corners, using longest practical lengths.

# 3.04 JOINT TREATMENT

- A. Paper Faced Gypsum Board: Use paper joint tape, embed with drying type joint compound and finish with drying type joint compound.
- B. Finish gypsum board in accordance with highest level/quality level 5 or better as defined in ASTM C840, except in the following locations:
  - 1. Level 3: Walls to receive textured wall finish.
  - 2. Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.
  - 3. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.
  - 4. Level 0: Temporary partitions.
- Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
  - Apply a uniform thin layer of joint compound to all joints and angles to be reinforced. Immediately apply joint tape centered over joint and seated into compound. Sufficient compound (approximately 1/64" to 1/32") must remain under the tape to provide proper bond. Follow immediately with a thin skim coat to embed tape, but not to function as a second coat. The tape or embedding coat must be thoroughly dry prior to application of second coat.
  - 2. Apply second coat of joint compound over embedded coat fill panel taper flush with surface; cover tape and feather out at least 3" beyond the first coat. On joints with no taper, cover tape and feather out at least 4" on either side of the tape. Allow second coat to dry thoroughly prior to application of finish coat.
  - 3. Feather coats of joint compound so that camber is maximum 1/32 inch (0.8 mm).
  - 4. Taping, filling, and sanding are not required at surfaces behind adhesive applied ceramic tile and fixed cabinetry.
  - 5. Taping, filling, and sanding are not required at base layer of double-layer applications.
  - 6. On all exposed drywall, whether scheduled for paint or finishing or not, install a finish coat of compound evenly over and extend at least 2" beyond second coat on all joints and feather to a smooth uniform finish. This step is not necessary for drywall above suspended ceilings. Do not allow finish joint to protrude beyond the plane of the surface. Where necessary, sand lightly between coats and the final application of compound to provide a smooth surface, ready for decoration. When sanding, take care not to roughen face paper. Globs, misses gaps, etc., will not be accepted. The taping and spackling of drywall in un-exposed areas (above acoustical suspended ceilings) shall be finished the same as exposed areas, excluding the skim coat.
- D. After all irregularities have been eliminated and the joint treatment surfaces sanded, apply a thin skim coat of joint compound to the entire surface of the board that is exposed to the occupied space that is scheduled for paint or finishing (above ceilings excluded). Caution should be taken to eliminate laps or tool marks in the skim coating operation. The entire surface shall be lightly sanded as required to assure a smooth and even surface. An optional method is to install a prime coat of "Sheetrock First Coat", as manufactured by USG.

# 3.05 TOLERANCES

A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet (3 mm in 3 m) in any direction.

**END OF SECTION** 

## SECTION 092220 NON-STRUCTURAL METAL FRAMING

#### **PART 1 GENERAL**

## 1.01 SECTION INCLUDES

- A. Metal partition, ceiling, and soffit framing.
- B. Metal bulkhead framing.
- C. Framing accessories.

#### 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements

## 1.03 REFERENCE STANDARDS

- A. AISI S100 North American Specification for the Design of Cold-Formed Steel Structural Members; 2016, with Supplement (2018).
- B. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.
- C. ASTM C645 Standard Specification for Nonstructural Steel Framing Members; 2018.
- D. ASTM C754 Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2020.
- E. ASTM C1002 Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2020.
- F. SSPC-Paint 20 Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); 2002 (Ed. 2004).

## 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Shop Drawings:
  - Indicate prefabricated work, component details, stud layout, framed openings, anchorage
    to structure, acoustic details, type and location of fasteners, accessories, and items of
    other related work.
  - 2. Describe method for securing studs to tracks, splicing, and for blocking and reinforcement of framing connections.
- C. Product Data: Provide data describing framing member materials and finish, product criteria, load charts, and limitations.
- D. Product Data: Provide manufacturer's data on partition head to structure connectors, showing compliance with requirements.

# 1.05 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing the work of this section with minimum five years documented experience and approved by manufacturer.

## **PART 2 PRODUCTS**

# 2.01 MANUFACTURERS

- A. Metal Framing, Connectors, and Accessories:
  - ClarkDietrich: www.clarkdietrich.com/#sle.
  - 2. Marino: www.marinoware.com/#sle.
  - 3. Substitutions: See Section 016000 Product Requirements.

#### 2.02 FRAMING MATERIALS

A. Non-Loadbearing Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum

deflection of wall framing of L/120 at 10 psf (L/120 at 480 Pa).

- Interior Studs: C-shaped with knurled or embossed faces. Min. 22 Ga., 3-5/8 x 1-1/4". For abuse resistant installation (Defined as areas called for hi-impact drywall) studs and track to be 20 Ga.
- 2. Exterior Fascia, wall, and roof curb members: Min. 20 Ga. 6" x 1-1/4" or as required for listed loads.
- 3. Runners: U shaped, sized to match studs. Min. 22 Ga., 3-5/8" x 1-1/4".
- 4. Ceiling Channels: C shaped min. 3-5/8" x 2.
- 5. Furring Members: Hat-shaped sections, minimum depth of 7/8 inch (22 mm).
- 6. Furring Members: Zee-shaped sections, minimum 25 gauge, 3/4" deep x 2-3/4" wide.
- 7. Resilient Sound Furring Channels: Single or double leg configuration; min. 25 gauge ½" deep x 2-1/2".
- B. Shaft Wall Studs and Accessories: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 and specified performance requirements.
- C. Area Separation Wall Studs and Accessories: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with specified performance requirements.
- D. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection using slotted holes, screws, and anti-friction bushings, preventing rotation of studs while maintaining structural performance of partition.
  - 1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI S100.
  - 2. Material: ASTM A653/A653M steel sheet, SS Grade 50, with G60/Z180 hot-dipped galvanized coating.
  - 3. Provide components UL-listed for use in UL-listed fire-resistance-rated head of partition joint systems indicated on drawings.
  - Provide mechanical anchorage devices as described above that accommodate deflection while maintaining the fire-resistance rating of the wall assembly.
- E. Non-Loadbearing Framing Accessories:
  - 1. Ceiling Hangers: Type and size as specified in ASTM C754 for spacing required.
  - 2. Framing Connectors: ASTM A653/A653M G90 galvanized steel clips; secures cold rolled channel to wall studs for lateral bracing.
  - 3. Metal bridging shall be galvanized, 16 Ga., 1-1/2" cold-rolled channels at 4'-0" o.c. from finished floor.
  - 4. Fasteners: ASTM C1002 self-piercing tapping screws.
  - 5. Acoustic Insulation: As specified in Section 072100.
  - 6. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20 Type I Inorganic.

## 2.03 FABRICATION

- A. Fabricate assemblies of framed sections to sizes and profiles required.
- B. Fit, reinforce, and brace framing members to suit design requirements.
- C. Fit and assemble in largest practical sections for delivery to site, ready for installation.

# **PART 3 EXECUTION**

# 3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that rough-in utilities are in proper location.

## 3.02 INSTALLATION OF STUD FRAMING

- A. Comply with requirements of ASTM C754.
- B. Walls to be installed to meet a U.L. (1) hour rating, or (2) hour fire rating as detailed.
- C. See plans for wall heights some to be full height from floor to floor/roof, floor to ceiling, floor to above ceiling, etc. All to be floor to roof unless noted otherwise. Maintain gap to deck (1/2"+) to allow deck movement. Gap remaining to be filled with fire safing insulation (see other division).

- D. Extend partition framing to structure where indicated and to ceiling in other locations.
- E. Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling track in accordance with manufacturer's instructions.
- F. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.
- G. Align and secure top and bottom runners at 24 inches (600 mm) on center.
- Fit runners under and above openings; secure intermediate studs to same spacing as wall studs
- I. Studs: Space studs at 16 inches on center (at 406 mm on center) or as indicated an/or as required to meet standard.
- J. Align stud web openings horizontally.
- K. All new walls/furring to be framed around ductwork penetrations. See drawings for location and sizes of ductwork.
- L. Secure studs to tracks using fastener method. Do not weld.
- M. Stud splicing is not permissible.
- N. Fabricate corners using a minimum of three studs.
- O. Install double studs at wall openings, door and window jambs, not more than 2 inches (50 mm) from each side of openings.
- P. Brace stud framing system rigid. Anchor all walls properly to existing walls and structure with diagonal bracing, cross members, etc., for proper support.
- Q. Coordinate erection of studs with requirements of door frames; install supports and attachments.
- R. Coordinate installation of bucks, anchors, and blocking with electrical, mechanical, and other work to be placed within or behind stud framing.
- S. Blocking: Use wood blocking secured to studs. Provide blocking for support of plumbing fixtures, toilet partitions, wall cabinets, toilet accessories, hardware, and opening frames.
- T. Furr out all walls where noted, installing members at 16" on center as required. Anchor to wall and to top and bottom runner channels.

## 3.03 CEILING AND SOFFIT FRAMING

- A. Comply with requirements of ASTM C754.
- B. Install furring after work above ceiling or soffit is complete. Coordinate the location of hangers with other work.
- C. Install furring independent of walls, columns, and above-ceiling work.
- D. Securely anchor hangers to structural members or embed them in structural slab. Space hangers as required to limit deflection to criteria indicated. Use rigid hangers at exterior soffits.
- E. Space main carrying channels at maximum 72 inch (1 800 mm) on center, and not more than 6 inches (150 mm) from wall surfaces. Lap splice securely.
- F. Securely fix carrying channels to hangers to prevent turning or twisting and to transmit full load to hangers.
- G. Place furring channels perpendicular to carrying channels, not more than 2 inches (50 mm) from perimeter walls, and rigidly secure. Lap splices securely.
- H. Reinforce openings in suspension system that interrupt main carrying channels or furring channels with lateral channel bracing. Extend bracing minimum 24 inches (600 mm) past each opening.
- I. Laterally brace suspension system.

# 3.04 TOLERANCES

- A. Maximum Variation From True Position: 1/8 inch in 10 feet (3 mm in 3 m).
- B. Maximum Variation From Plumb: 1/8 inch in 10 feet (3 mm in 3 m).

# **END OF SECTION**

## SECTION 095100 ACOUSTICAL CEILINGS

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

A. Suspended metal grid ceiling system.

# 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements

#### 1.03 REFERENCE STANDARDS

- A. ASTM C636/C636M Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels; 2019.
- B. ASTM E580/E580M Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions; 2022.

# 1.04 ADMINISTRATIVE REQUIREMENTS

- A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.
- B. Do not install acoustical units until after interior wet work is dry.

# 1.05 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Shop Drawings: Indicate grid layout and related dimensioning.
- C. Product Data: Provide data on suspension system components and acoustical units.
- D. Samples: Submit two full size samples illustrating material and finish of acoustical units.
- E. Samples: Submit two samples each, of suspension system main runner, cross runner, and perimeter molding.
- F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 016000 Product Requirements, for additional provisions.
  - 2. Extra Acoustical Units: Quantity equal to 5 percent of total installed.

## 1.06 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing work specified in this section, with minimum of five years of documented experience.

## 1.07 FIELD CONDITIONS

A. Maintain uniform temperature of minimum 60 degrees F (16 degrees C), and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

## **PART 2 PRODUCTS**

#### 2.01 MANUFACTURERS

- A. Acoustic Tiles/Panels:
  - 1. Armstrong World Industries, Inc: www.armstrongceilings.com/#sle.
  - 2. CertainTeed Corporation: www.certainteed.com/#sle.
  - 3. USG Corporation: www.usg.com/ceilings/#sle.
- B. Suspension Systems:
  - 1. Same as for acoustical units.

### **2.02 TYPES**

A. General (Classrooms/Offices/Toilet Rooms/Corridors)

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- 1. Shall be white "Radar Education" Acoustical Panels (#2207/USG), 24"x 24" x 5/8", square edge. Class "A" flame spread and U.L rated 1 hour.
- 2. Grid suspension system shall be 1-1/2" high x 15/16" wide inverted bulb "T" Series DX or DXL, Heavy Duty ASTM Class, by Donn USG.
- 3. Wall mold to be "M7" with 3/4" face.
- 4. Grid/Trim/Transition Finish to be Flat White #050 baked enamel.
- 5. Where noted on drawings provide complete fire rated installation per manufacturer directions including specific requirements of any noted UL Designations.
- 6. Provide special trim/transition pieces as required and/or detailed for a complete installation.

## B. Kitchens (Humid Areas)

- 1. Shall be "Radar Ceramic" Accoustical Panels (#56644/USG), 24"x 24" x 5/8", square edge, Class "A" flame spread and U.L rated 1 hour.
- 2. Grid suspension system shall be 1-1/2" high x 15/16" wide inverted bulb "T" Series DXLA/DXACE, Heavy Duty ASTM Class, by Donn USG.
- 3. Wall mold to be "M7" with 3/4" face.
- 4. Grid/Trim/Transition Finish to be Flat White #050 baked enamel.
- 5. Where noted on drawings provide complete fire rated installation per manufacturer directions including specific requirements of any noted UL Designations.
- 6. Provide special trim/transition pieces as required and/or detailed for a complete installation.

## PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify that layout of hangers will not interfere with other work.

## 3.02 PREPARATION

- A. Install after major above-ceiling work is complete.
- B. Coordinate the location of hangers with other work.
- C. Provide hanger clips during steel deck erection. Provide additional hangers and inserts as required.

### 3.03 INSTALLATION - SUSPENSION SYSTEM

- A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions, as reuired for the indicated fire rating, and as supplemented in this section.
- B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- C. Locate system on room axis according to reflected plan. Notify and consult architect where where there are differences from plans that will effect layout. Systems shall be installed to permit border units of greatest possible size. Do not install edge units in less than 50 percent of acoustical unit size. Layout to be symmetrical from room centerline in all directions using largest area as control and extending same grid lines into minor areas, alcoves, etc.
- D. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- E. Install suspension system independently in each room. Main runners to be installed continuously without being broken on 4' centers wall to wall cross members @ 24" O.C. Entire perimeter to have angle member anchored to study or masonry.
- F. The system shall be installed in strict accordance with the manufacturer's recommendations and in such a manner where noted on drawings to achieve the specified fire rating. Minimum hanger wire to be 12 ga. Galvanized steel. Wires to be anchored to building structure.

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- G. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- H. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- I. Support fixture loads using supplementary hangers located within 6 inches (152 mm) of each corner, or support components independently.
- J. Do not eccentrically load system or induce rotation of runners.
- K. Level entire grid in place and rigidize before installation of ceiling tiles.
- L. Install light fixture boxes constructed of gypsum board above light fixtures in accordance with fire rated assembly requirements and light fixture ventilation requirements.

# 3.04 INSTALLATION - ACOUSTICAL UNITS

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit border trim neatly against abutting surfaces.
- D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- E. Cutting Acoustical Units:
  - 1. Cut to fit irregular grid and perimeter edge trim.
  - 2. Make field cut edges of same profile as factory edges.
- F. Where round obstructions occur, provide preformed closures to match perimeter molding.
- G. Install hold-down clips on each panel to retain panels tight to grid system; comply with fire rating requirements.
- H. Install hold-down clips on panels within 20 ft (6 m) of an exterior door.
- I. Where corridor ceilings are unrated and corridor walls terminate at the bottom of corridor ceilings, the corridor ceilings shall form a continuous membrane having a minimum tile uplift force of 1 lb/ sq. foot as required per NFPA 101 and/or the authority of jurisdiction. Provide ceiling tile density pads (in lieu of tile clips) as provided by ceiling manufacturer or approved equal installed in accordance with ceiling manufacturer requirements.

#### 3.05 TOLERANCES

- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet (3 mm in 3 m).
- B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.

**END OF SECTION** 

Acoustical Ceilings 095100 - 3

## SECTION 096500 RESILIENT FLOORING

## **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- Resilient tile flooring.
- B. Resilient base.
- C. Installation accessories.

#### 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements

## 1.03 REFERENCE STANDARDS

- A. ASTM F1066 Standard Specification for Vinyl Composition Floor Tile; 2004 (Reapproved 2018).
- B. ASTM F1861 Standard Specification for Resilient Wall Base; 2021.
- C. RFCI (RWP) Recommended Work Practices for Removal of Resilient Floor Coverings; 2011.

#### 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- C. Shop Drawings: Indicate seaming plans and floor patterns.
- D. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
- E. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of subfloor is acceptable.
- F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 016000 Product Requirements, for additional provisions.
  - 2. Extra Flooring Materials: Quantity equivalent to 5 percent of each type and color.
  - Extra Wall Base Materials: Quantity equivalent to 5 percent of each type and color.

## 1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing specified flooring with minimum three years documented experience.
- B. Installer Qualifications: Company specializing in installing specified flooring with minimum five years documented experience.

## 1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store all materials off of the floor in an acclimatized, weather-tight space.
- B. Maintain temperature in storage area between 55 degrees F (13 degrees C) and 90 degrees F (72 degrees C).
- C. Protect roll materials from damage by storing on end.
- D. Do not double stack pallets.

## 1.07 FIELD CONDITIONS

A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F (21 degrees C) to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F (13 degrees C).

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## **PART 2 PRODUCTS**

## 2.01 TILE FLOORING

- A. Vinyl Composition Tile: Homogeneous, with color extending throughout thickness.
  - To be "Standard Excelon", as manufactured by Armstrong Cork Co., or equal by Kentile, Azrock, Congoleum, or approved equal.
  - 2. Minimum Requirements: Comply with ASTM F1066, of Class corresponding to type specified.
  - 3. Size: 12 by 12 inch (305 by 305 mm).
  - 4. Thickness: 0.125 inch (3.2 mm).
  - 5. Pattern: ad indicated on drawings.
  - Color: As indicated on drawings or where not indicated, to be selected by Architect from manufacturer's full range. Each room may contain mulitple colors and may be different from other rooms.

## 2.02 RESILIENT BASE

- A. Resilient Base: ASTM F1861, Type TS rubber, vulcanized thermoset; style as scheduled.
  - Manufacturers:
    - a. Burke Flooring; ____: www.burkeflooring.com/#sle.
    - b. Johnsonite, a Tarkett Company; _____: www.johnsonite.com/#sle.
    - c. Roppe Corporation: www.roppe.com/#sle.
    - d. Armstrong; http://www.armstrong.com/
    - e. Substitutions: See Section 016000 Product Requirements.
  - 2. Height: 4 inch (100 mm).
  - 3. Thickness: 0.125 inch (3.2 mm).
  - 4. Finish: Satin.
  - 5. Profile: Straight base for Carpet. Cove base for all other flooring types.
  - 6. Color: As indicated on drawings. May have up tp (2) colors throughout ea. building.

#### 2.03 ACCESSORIES

- A. Transitions assumed to be resilient mercer strip, by Roppe, Burke Flooring or approved equal in color as selected by architect, unless indicated on drawings.
- B. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
- C. Tile: Primers, Adhesives, and Seam Sealers shall be as manufactured by, or as recommended by the Tile Manufacturer.
- D. Resilient Base: Adhesive shall be as manufactured by, or as recommended by the base Manufacturer.

## **PART 3 EXECUTION**

# 3.01 EXAMINATION

- A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
- B. Cementitious Subfloor Surfaces: Verify that substrates are ready for resilient flooring installation by testing for moisture and alkalinity (pH).
  - 1. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.
- C. Verify that required floor-mounted utilities are in correct location.

### 3.02 PREPARATION

- A. Ensure substrate meets the requirements of ASTM F710.
- B. Remove existing resilient flooring and flooring adhesives; follow the recommendations of RFCI (RWP).
- C. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

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- D. Remove subfloor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with subfloor filler to achieve smooth, flat, hard surface.
- E. Prohibit traffic until filler is fully cured.
- F. Clean substrate. Substrates must be free of visible water or moisture, dust, sealers, paint, sweeping compounds, curing compounds, residual adhesives and adhesive removers, concrete hardeners or densifiers, solvents, wax, oil, grease, asphalt, visible alkaline salts or excessive efflorescence, mold, mildew and any other extraneous coating, film, material or foreign matter.
- G. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

## 3.03 INSTALLATION - GENERAL

- A. Starting installation constitutes acceptance of subfloor conditions.
- B. Install in accordance with manufacturer's written instructions.
- C. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

## 3.04 INSTALLATION - TILE FLOORING

- A. Tile shall be laid from contents of at least two different containers and/or sorted, so that marbleizing and color will be uniform and not spotty. Lay all marbleized tile with veining running in same direction. Obtain Owner/Architect approval prior to installation.
- B. At door openings or junctures with other materials, or where thresholds of other materials are not specified, install reducer strip full width of juncture, #633, as manufactured by Mercer.

#### 3.05 INSTALLATION - RESILIENT BASE

- A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between joints or at corner returns.
- B. Install base on solid backing. Bond tightly to wall and floor surfaces.
- C. Scribe and fit to door frames and other interruptions.
- D. Install base on all walls, unless noted otherwise, for a uniform appearance.

## 3.06 CLEANING

- A. Remove excess adhesive from floor, base, and wall surfaces without damage.
- B. Clean in accordance with manufacturer's written instructions.

#### 3.07 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

## **END OF SECTION**

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# SECTION 099000 PAINTING AND COATING

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Interior painting and coating systems.
- C. Exterior painting and coating systems.
- D. Scope:
  - 1. This Contractor shall paint all interior building materials as required for a finished installation or as noted on drawings.
  - 2. Finish surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including but not limited to the following: .
    - Exposed gas piping (on roof and elsewhere) and meter, electric disconnect/conduits/meter socket, etc.
    - b. Interior walls and exposed drywall ceilings.
    - c. Miscellaneous items as required for a finished installation.
    - d. Exposed CMU walls.
    - e. Marking and identification of Fire and Smoke barriers, partitions, and walls.
    - f. Patch Paint any surface that was not exposed prior to this work and becomes exposed as a result of this work.
    - g. Items as called out in drawings.
  - 3. Patch painting as called out in drawings and as required for a finished appearance.
  - 4. Contractor shall acquaint himself with all divisions of the specifications and drawings, as he shall paint or finish to completion all materials requiring painting or finishing which are left un-finished.

## 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements

# 1.03 REFERENCE STANDARDS

- A. SSPC-SP 1 Solvent Cleaning; 2015, with Editorial Revision (2016).
- B. SSPC-SP 2 Hand Tool Cleaning; 2018.
- C. SSPC-SP 6 Commercial Blast Cleaning; 2007.
- D. SSPC-SP 13 Surface Preparation of Concrete; 1997 (Reaffirmed 2003).

## 1.04 SUBMITTALS

- See Section 013000 Administrative Requirements for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:
  - 1. Product characteristics.
  - 2. Surface preparation instructions and recommendations.
  - 3. Primer requirements and finish specification.
  - 4. Storage and handling requirements and recommendations.
  - 5. Application methods.
  - 6. Clean-up information.
- C. Samples: Submit four paper draw down samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
- D. Applicator's qualification statement.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.

1. See Section 016000 - Product Requirements for additional provisions.

- 2. Extra Paint and Finish Materials: 1 gallon (4 L) of each color; from the same product run, store where directed.
- 3. Label each container with color in addition to manufacturer's label.

# 1.05 QUALITY ASSURANCE

A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum 3 years experience and approved by manufacturer.

## 1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, product name, product code, color designation, VOC content, batch date, environmental handling, surface preparation, application, and use instructions.
- C. Paint Materials: Store at a minimum of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.
- D. Handling: Maintain a clean, dry storage area to prevent contamination or damage to materials.

## 1.07 FIELD CONDITIONS

- A. Do not apply materials when environmental conditions are outside the ranges required by manufacturer.
- B. Follow manufacturer's recommended procedures for producing the best results, including testing substrates, moisture in substrates, and humidity and temperature limitations.

## **PART 2 PRODUCTS**

#### 2.01 MANUFACTURERS

- A. Basis of Design Products: Subject to compliance with requirements, provide Sherwin-Williams Company (The) products indicated; www.sherwin-williams.com/#sle.
- B. Comparable Products: Products of approved manufacturers will be considered in accordance with 016000 Product Requirements, and the following:
  - 1. Other Acceptable Manufacturers:

# 2.02 PAINTINGS AND COATINGS

- A. General:
  - 1. Provide factory-mixed coatings unless otherwise indicated.
  - 2. When required, mix coatings to correct consistency in accordance with manufacturer's instructions before application.
  - 3. Do not reduce, thin, or dilute coatings or add materials to coatings unless specifically indicated in manufacturer's instructions.
- B. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

# 2.03 PAINT SYSTEMS - EXTERIOR

- A. Exterior Concrete Block/Brick Paint
  - 1 Coat: SW Pro Industrial Heavy-Duty Block Filler, B42 Series (16.0-21.0 mil wet, 8.0-10.5 mil dry)
  - 2 Coats: SW A-100 Exterior Acrylic Latex Flat, A6 Series (4 mil wet, 1.3 mil dry)
- B. Exterior Concrete Block/Brick Elastomeric (Riverside Chimney)
  - 1 Coat: SW Pro Industrial Heavy-Duty Block Filler, B42 Series (16.0-21.0 mil wet, 8.0-10.5 mil dry)
  - 2 Coats: SW ConFlex SherLastic Elastomeric Coating, CF16 Series
- C. Exterior Ferrous Metal Paint
  - 1 Coat: SW Pro Industrial Pro Cryl Universal Primer, B66 Series (5-10 mil wet, 1.8-3.6 mil dry)
  - 2 Coats: SW Pro Industrial Acrylic Semi-Gloss, B66 Series (6-12 mil wet, 2.1-4.2 mil dry)

## D. Exterior Galvanized Metal – Paint

1 Coat: SW Pro Industrial Pro Cryl Universal Primer, B66 Series (5-10 mil wet, 1.8-3.6 mil dry)

2 Coats: SW Pro Industrial Acrylic Semi-Gloss, B66 Series (6-12 mil wet, 2.1-4.2 mil dry)

## E. Exterior Wood Fencing - Stain

2 Coats: Sherwin-Williams SuperDeck Exterior Waterborne Semi-Solid Color Deck Stain, SD5 Series

## 2.04 PAINT SYSTEMS - INTERIOR

## A. Interior Drywall – Paint Latex

1 Coat: SW ProMar 200 Zero VOC Interior Latex Primer, B28 Series (4 mil wet, 1.0 mil dry)

2 Coats: SW ProMar 200 Zero VOC Interior Latex Eg-Shel, B20 Series (4 mil wet, 1.5 mil dry)

# B. Interior Wood - Paint

1 Coat: SW Prep Premium Wall and Wood Interior Latex Primer, B28 Series (4 mil wet, 1.6 mil dry)

2 Coats: SW ProMar 200 Zero VOC Interior Latex Eg-Shel, B20 Series (4 mil wet, 1.5 mil dry)

# C. Interior Concrete Block/Brick - Epoxy

1 Coat: SW Pro Industrial Heavy-Duty Block Filler, B42 Series (16.0-21.0 mil wet, 8.0-10.5 mil dry)

2 Coats: SW Pro Industrial Waterbased Catalyzed Epoxy Eg-shel, B73 Series (5.0-12.0 mil wet, 2.0-5.0 mil dry)

## D. Interior Concrete Block/Brick - Paint

1 Coat: SW Pro Industrial Heavy-Duty Block Filler, B42 Series (16.0-21.0 mil wet, 8.0-10.5 mil dry)

2 Coats: SW ProMar 200 Zero VOC Interior Latex Semi-Gloss, B31 Series (4 mil wet, 1.5 mil dry)

#### E. Interior Ferrous Metal – Paint

1 Coat: SW Pro Industrial Pro Cryl Universal Primer, B66 Series (5-10 mil wet, 1.8-3.6 mil dry)

2 Coats: SW Pro Industrial Acrylic Semi-Gloss, B66 Series (6-12 mil wet, 2.1-4.2 mil dry)

## F. Interior Galvanized Metal – Paint

1 Coat: SW Pro Industrial Pro Cryl Universal Primer, B66 Series (5-10 mil wet, 1.8-3.6 mil dry)

2 Coats: SW Pro Industrial Acrylic Semi-Gloss, B66 Series (6-12 mil wet, 2.1-4.2 mil dry)

# G. Interior Concrete Floor - Sealer

2 Coats: SW Armorseal 1000HS Gloss, B67 Series

# H. Interior Concrete Floor - Non Slip Epoxy Coating

2 Coats EUCOPOXY TUFCOAT (2 Part Epoxy Clear or Colored Semi-Gloss Coating) Shall be as manufactured by the Euclid Chemical Co., Cleveland, OH. Color to be clear or solid color as selected. Coating shall be installed after all major work is complete and when floor is completely dry. Thoroughly clean concrete floor of all grease, oil, dirt, etc. per manufacturer directions, for proper adherence and so once sealed, a uniform appearance is achieved. Refer to manufacturer's recommendations for cleaning and if floor is acid cleaned, properly neutralize per manufacturer's recommendations before installing sealer.

# PART 3 EXECUTION

# 3.01 EXAMINATION

A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

- B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- C. Test shop-applied primer for compatibility with subsequent cover materials.

#### 3.02 PREPARATION

- A. General Before painting, remove hardware, accessories, plates, lighting fixtures, fire alarm devices, and other similar items, or provide ample protection of such items. Remove any clear covers or other items where the painted surface can be seen at completion. Upon completion of each space, replace above items. Use only skilled mechanics for removing and connection of above items.
- B. Clean surfaces thoroughly and correct defects prior to application.
- C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- D. Remove mildew from impervious surfaces by scrubbing with solution of water and bleach. Rinse with clean water and allow surface to dry.
- E. All hairline cracks, splits, gouges, scratches and alligatored surfaces shall be spackled with Durabond 90, following manufacturer's recommendations. Prime these areas with a heavy-duty primer similar to Sherwin Williams Prep Rite High Build Latex Primer, B28W601 (1-4 Mills Dry).
- F. Roughen up and clean all surfaces as required by manufacturer for proper bonding of product used to the material/surface being prepped.
- G. Concrete:
  - 1. Remove release agents, curing compounds, efflorescence, and chalk.
  - 2. Fill bug holes, air pockets, and other voids with cement patching compound.
  - 3. Prepare concrete according to SSPC-SP 13.
- H. Masonry: Remove efflorescence and chalk.
- I. Gypsum Board: Fill minor defects with filler compound; sand smooth and remove dust prior to painting.
- J. Plaster: Fill hairline cracks, small holes, and imperfections with patching plaster. Make smooth and flush with adjacent surfaces. Treat textured, soft, porous, or powdery surfaces in accordance with manufacturer's instructions.
- K. Concrete Floors and Traffic Surfaces: Prepare concrete according to SSPC-SP 13.
- L. Aluminum: Remove surface contamination and oil; wash with solvent according to SSPC-SP 1.
- M. Galvanized Surfaces:
  - 1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
  - 2. Prepare surface according to SSPC-SP 2.
- N. Ferrous Metal:
  - Solvent clean according to SSPC-SP 1.
  - 2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Prime bare steel surfaces.
  - 3. Remove rust, loose mill scale, and other foreign substances using methods recommended by paint manufacturer and blast cleaning according to SSPC-SP 6. Protect from corrosion until coated.
- O. Wood: Remove dust, grit, and foreign matter. Scrape, sand, and spot prime knots and pitch streaks. Fill nail holes and imperfections with wood filler and sand smooth.

#### 3.03 APPLICATION

- A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. All paint shall be installed in strict conformance with manufacturer's specifications. Surface to be painted shall be clean, dry, smooth and adequately protected from weather. Temperature

- shall be above 50 degrees F.
- C. Finished work shall be uniform, of approved color, smooth and free from runs, sags, defective brushing, clogging, or excessive flooding.
- D. Small cracks, holes and other imperfections in masonry surfaces, which show up after primersealer has been applied to the surface shall be filled with an approved spackling compound before application of second coat.
- E. Paint or finish all work specified herein and all work customarily painted for appearance or protection, as well as other specified items of work scheduled to be painted in room finish schedule.
- F. Apply coatings at spread rate required to achieve manufacturer's recommended dry film thickness.
- G. Regardless of number of coats specified, apply additional coats until complete uniform color, hide, and sheen is achieved.
- H. Marking and identification of Fire and Smoke barriers, partitions, and walls:
  - 1. Where there is an accessible concealed floor, floor-ceiling or attic space, fire walls, fire barriers, fire partitions, smoke barriers and smoke partitions or any other wall required to have protected openings or penetrations shall be effectively and permanently identified with stenciling in the concealed space. Such identification shall:
    - a. Be located within 15 feet (4572 mm) of the end of each wall and at intervals not exceeding 30 feet (9144 mm) measured horizontally along the wall or partition.
    - b. Include lettering not less than 3 inches (76 mm) in height with a minimum 3/8-inch (9.5 mm) stroke in a contrasting color incorporating the suggested wording, "FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS," or other wording.
  - 2. Included are both sides of all barriers, partitions, and walls within the contract limits and/or as indicated on the drawings.
- All patch painting shall be done in neat logical configurations, stopping at logical break points, such as inside or outside corners, at change of materials, or as directed by the Owner/Architect.

## 3.04 PRIMING

- A. Apply primer to all surfaces unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.
- B. Primers specified in painting schedules may be omitted on items factory primed or factory finished items if acceptable to top coat manufacturers.

## 3.05 CLEANING

- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
- B. Clean surfaces immediately of overspray, splatter, and excess material.
- After coating has cured, clean and replace finish hardware, fixtures, and fittings previously removed.

#### 3.06 PROTECTION

- A. Protect finished coatings from damage until completion of project.
- B. Touch-up damaged finishes after Substantial Completion.

**END OF SECTION** 

## SECTION 123600 COUNTERTOPS

## **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

A. Stainless Steel Countertops

# 1.02 RELATED REQUIREMENTS

- A. Section 016000 Product Requirements
- B. Section 017000 Execution and Closeout Requirements
- C. Section 064100 Architectural Wood Casework.

#### 1.03 REFERENCE STANDARDS

- A. ASTM A666 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2015.
- B. NSF 51 Food Equipment Materials; 2019.

## 1.04 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Shop Drawings: Complete details of materials and installation; combine with shop drawings of cabinets and casework specified in other sections.
- C. Selection Samples: For each finish product specified, color chips representing manufacturer's full range of available colors and patterns.

## 1.05 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than five years of documented experience.

# 1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

#### 1.07 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

# **PART 2 PRODUCTS**

## 2.01 COUNTERTOPS

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Provide all specialty hardware such as chrome leg supports, hinges, latches, bolts, handles, angles, etc. Provide in quantities to eliminate warping, sagging or any failure and as recommended by the manufacturer.
- C. Stainless Steel Countertops shall be 3/4" interior grade plywood. "B"/"D", or better, or 3/4" interior grade high density particle board, covered with Type 304, stainless steel sheet; 14 gauge, 0.232 inch (5.9 mm) nominal sheet thickness.
  - 1. Finish: 4B satin brushed finish.
  - All corners and edges shall be rolled, eased, coved or radius to reduce injury. All joints shall be welded tight, ground smooth and polished to match finish. All seams must be smooth and have superior cleanability.
  - 3. All fasteners shall be concealed and compatible with adjoining materials.

4. Counter shall be attached to wooden substrate by others.

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- 5. Coordinate counters with rolling counter door Contractor for details between jambs and counter tops.
- 6. All work shall meet NSF standards and local Health Department for construction, installation and operation.

## 2.02 FABRICATION

- A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
  - 1. Join lengths of tops using best method recommended by manufacturer.
  - 2. Fabricate to overhang fronts and ends of cabinets 1 inch (25 mm) except where top butts against cabinet or wall.
  - 3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.
- B. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
  - 1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue.
  - 2. Height: 4 inches (102 mm), unless otherwise indicated.
- C. Stainless Steel: Fabricate tops up to 144 inches (3,657 mm) long in one piece including nosings and back and end splashes; accurately fitted mechanical field joints in lengths over that dimension are permitted.
  - 1. Weld joints; grind smooth and polish to match.
  - 2. Provide stainless steel hat channel stiffeners, welded or soldered to underside, where indicated on drawings.
  - 3. Provide wall clips for support of back/end splash turndowns.
  - 4. Sound Deadening: Apply water resistant, fire resistant sound deadening mastic to entire bottom surface.
- D. Wall-Mounted Counters: Provide skirts, aprons, brackets, and braces as indicated on drawings, finished to match.
- E. Large countertop surfaces, such as board tables shall be laminated on underside with backing sheet to prevent warping, on full 1-1/2" thick plywood (2 layers of ¾" with staggered joints) and ribbed with metal angles.

# **PART 3 EXECUTION**

# 3.01 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.

# 3.02 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

# 3.03 INSTALLATION

- A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.
- B. Attach plastic laminate countertops using screws with minimum penetration into substrate board of 5/8 inch (16 mm).
- C. Attach stainless steel countertops using stainless steel fasteners and clips.
- D. Seal joint between back/end splashes and vertical surfaces. Shall be a small uniform continuous bead, without ripples, lumps, or irregularities.

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# 3.04 CLEANING

A. Clean countertops surfaces thoroughly.

# 3.05 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

# **END OF SECTION**

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