

Telephone: 989-790-9120  
Facsimile: 989-790-9063



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# Addendum #1

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Attn: Estimator	Date: February 21, 2024
From: Lisa Donahue, Project Administrator	Pages: 92 (including cover page)
Re: Bay City Public Schools	Project: 2024 SF BP 11 – Eastern HS at Handy MS
CC:	Proj. #: A23904

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Revised Milestone Schedule	1 Page
RFI Log	3 Pages
Revised Bid Form	8 Pages
Prevailing Wage Rates	38 Pages
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Revised Spec Section 087100 Door Hardware	13 Pages
Revised Spec Section 093013 Ceramic Tiling	6 Pages
Revised Drawings	15 Pages

**Electronic bids can only be submitted using Building Connected see link**  
<https://app.buildingconnected.com/login?retUrl=%2F>

**If you would like to listen in while bids are being opened, use the link.**  
<https://8x8.vc/wolgast/lisa.donahue>

*Paper bids go to school – see below information.*

**Bid Date is scheduled for:**  
**Friday, February 23, at 1:30 PM**  
Bay City Public Schools  
Administration Office  
Stephen Bigelow, Superintendent  
601 Blend Street  
Bay City, MI 48706

# Eastern Move to Handy Milestone Schedule

ID	% Compl	Task Mode	Task Name	Duration	Start	Finish	Predecessors	5/7 12 Sun 6/9 Tue 6/11 Thu 6/13 Sat 6/15 Mon 6/17 Wed 6/19 Fri 6/21 Sun 6/23 Tue 6/25 Thu 6/27 Sat 6/29 Mon 7/1 Wed 7/3 Fri 7/5 Sun 7/7 Tue 7/9 Thu 7/11 Sat 7/13 Mon 7/15 Wed 7/17 Fri 7/19 Sun 7/21 Tue 7/23 Thu 7/25 Sat 7/27 Mon 7/29 Wed 7/31 Fri 8/2 Sun																														
1	0%	🚧	eastern schedule	40 days	Mon 6/10/24	Fri 8/2/24																																
2	0%	🚧	demo general trades,MEP	5 days	Mon 6/10/24	Fri 6/14/24																																
3	0%	🚧	demo flooring	3 days	Thu 6/13/24	Mon 6/17/24	2FS-2 days																															
4	0%	🚧	structural steel	3 days	Thu 6/13/24	Mon 6/17/24	3FS-3 days																															
5	0%	🚧	MEP rough in	15 days	Mon 6/17/24	Fri 7/5/24	2																															
6	0%	🚧	framing	3 days	Wed 6/12/24	Fri 6/14/24	2FS-3 days																															
7	0%	🚧	cmu infill	4 days	Mon 6/17/24	Thu 6/20/24	2																															
8	0%	🚧	set door frames	2 days	Wed 6/12/24	Thu 6/13/24	6SS																															
9	0%	🚧	drywall	10 days	Mon 7/8/24	Fri 7/19/24	6																															
10	0%	🚧	paint	15 days	Mon 7/8/24	Fri 7/26/24	9SS																															
11	0%	🚧	mep set equip	3 days	Mon 7/8/24	Wed 7/10/24	5																															
12	0%	🚧	flooring	10 days	Mon 7/22/24	Fri 8/2/24	10FS-5 days																															
13	0%	🚧	install office desk	2 days	Fri 7/26/24	Mon 7/29/24	12FS-6 days																															
14	0%	🚧	front canopy	3 days	Tue 7/30/24	Thu 8/1/24	13																															
15	0%	🚧	final inspections	2 days	Thu 8/1/24	Fri 8/2/24	14																															
16	0%	🚧	punchlist	2 days	Thu 8/1/24	Fri 8/2/24	15SS																															
17	0%	🚧	turnover	0 days	Fri 8/2/24	Fri 8/2/24	15																															

Project: handy eastern move  
Date: Wed 2/21/24

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

Wolgast Corporation reserves the right to make changes to this construction schedule as the project warrants.



Wolgast Corporation

Bay City PS 2024 SF - BP 11 Eastern HS at Handy MS  
 201 Woodside Lane  
 Bay City, Michigan 48706  
 9896869700

## RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
12	Corridor 108 Floor Demo and Infill	Closed	WOLGAST CORPORATION	Schwerin, Dale (WOLGAST CORPORATION)	Schwerin, Dale (W...	02/21/2024	Dale Schwerin	02/26/2024	02/21/24					
<p><b>Q:</b> Dale Schwerin Sent Wed Feb 21, 2024 at 11:07 am EST Who is responsible in Corridor 108 to remove Terrazzo and substrate in area of new CT-1 Flooring?</p> <p><b>A:</b> Dale Schwerin (WOLGAST CORPORATION) Responded Wed Feb 21, 2024 at 11:09 am EST General Trades Contractor will be responsible to remove this floor material and substrate. Also the will need to infill with new concrete to achieve new floor substrate elevation.</p>														
11	Floor Infill	Closed	WOLGAST CORPORATION	Schwerin, Dale (WOLGAST CORPORATION)	Schwerin, Dale (W...	02/21/2024	Dale Schwerin	02/26/2024	02/21/24					
<p><b>Q:</b> Dale Schwerin Sent Wed Feb 21, 2024 at 11:02 am EST Who is responsible to infill areas of removed flooring substrate or terrazzo to achieve new finish floor substrate elevation?</p> <p><b>A:</b> Dale Schwerin (WOLGAST CORPORATION) Responded Wed Feb 21, 2024 at 11:04 am EST The General Trades Contractor will be responsible to use concrete or self-leveler to fill in void and achieve the new finish floor substrate elevation.</p>														
10	Floor Grinding	Closed	WOLGAST CORPORATION	Schwerin, Dale (WOLGAST CORPORATION)	Schwerin, Dale (W...	02/21/2024	Dale Schwerin	02/26/2024	02/21/24					
<p><b>Q:</b> Dale Schwerin Sent Wed Feb 21, 2024 at 10:56 am EST Who is responsible to grind floor mastic and terrazzo for new flooring.</p> <p><b>A:</b> Dale Schwerin (WOLGAST CORPORATION) Responded Wed Feb 21, 2024 at 10:57 am EST The flooring installer is responsible for grinding all existing floors in preparation on new flooring.</p>														
9	Restroom Glazed Tile Shelves	Closed	WOLGAST CORPORATION	Schwerin, Dale (WOLGAST CORPORATION)	Schwerin, Dale (W...	02/21/2024	Dale Schwerin	02/26/2024	02/21/24					
<p><b>Q:</b> Dale Schwerin Sent Wed Feb 21, 2024 at 10:50 am EST Who is responsible to remove the the structural glazed tile shelves in the Restrooms per the revised Alternate 4?</p> <p><b>A:</b> Dale Schwerin (WOLGAST CORPORATION) Responded Wed Feb 21, 2024 at 10:52 am EST The General Trades Contractor is responsible for this work.</p>														
8	Block Infill Type	Closed	WOLGAST CORPORATION	Schwerin, Dale (WOLGAST CORPORATION)	Burns, Rebekah (W...	02/19/2024	Dale Schwerin	02/22/2024	02/21/24					
<p><b>Q:</b> Dale Schwerin Sent Mon Feb 19, 2024 at 03:55 pm EST Reference drawings A2.21. Vestibule G104 has a 2.1 type wall infill. Wall type 2.1 just states 12" masonry wall. Areas that receive masonry infill are they to match the adjacent material block type? This infill is in a glazed block wall. What type of block will be required for the other infill. Please advise.</p> <p><b>A:</b> Dale Schwerin (WOLGAST CORPORATION) Responded Wed Feb 21, 2024 at 10:27 am EST Infill / patching of masonry to be same material as the adjacent masonry. Where this is standard CMU we would be looking for standard ASTM C90 CMU, Glazed CMU to be patched with Glazed CMU (Spectra-Glaze or equal), SGFT to be patched with SGFT (Elgin Butler or equal), coursing to match existing coursing. John Reis</p>														
7	Stainless Steel Corner Guard	Closed	WOLGAST CORPORATION	Schwerin, Dale (WOLGAST CORPORATION)	Burns, Rebekah (W...	02/19/2024	Dale Schwerin	02/22/2024	02/21/24					
<p><b>Q:</b> Dale Schwerin Sent Mon Feb 19, 2024 at 03:28 pm EST</p>														



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#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
	<p>1. Detail 2 on A3.03 calls out stainless corner guards but we don't find them in the specifications. Please advise.</p> <p>Dale Schwerin (WOLGAST CORPORATION) Responded Wed Feb 21, 2024 at 10:25 am EST</p> <p><b>A:</b> Stainless steel corner guards are available from many manufacturers and we were not looking for a specific manufacturer. They should be 2" x 2" x 16 gauge full height of opening (one piece). Stainless steel type to be type 304 and Finish desired is #4 satin finish. John Reis</p>													
6	alternate 2 relocate lockers	Closed		None	Burns, Rebekah (W... Reis, John (WTA A...	02/19/2024	Kyle Shelby	02/22/2024	02/19/24					
	<p><b>Q:</b> Kyle Shelby Sent Mon Feb 19, 2024 at 09:44 am EST drawing on A2.11 task 22 calls for red lockers to be removed and relocated. Where are the lockers being relocated too and is general trades reinstalling them at new location?</p> <p><b>A:</b> John Reis (WTA ARCHITECTS) Responded Mon Feb 19, 2024 at 02:20 pm EST The keynote will be revised in an Addendum. Work Scope at the Red Lockers shown is identified in Alternates No. 1 and No. 2. There will be no relocation.</p>													
5	Radiant Ceiling Panel	Closed	WOLGAST CORPORATION	Schwerin, Dale (WOLGAST CORPORATION)	Burns, Rebekah (W...	02/15/2024	Dale Schwerin	02/20/2024	02/21/24					
	<p><b>Q:</b> Dale Schwerin Sent Thu Feb 15, 2024 at 06:33 pm EST Reference M2.01 RCP Schedule missing. Need specifications. What about thermostat control.</p> <p><b>A:</b> Rebekah Burns (WTA ARCHITECTS) Responded Wed Feb 21, 2024 at 12:34 pm EST Response attached. <a href="#">RFI 05.pdf</a></p>													
4	flashing of RTU	Closed	WOLGAST CORPORATION	Shelby, Kyle (WOLGAST CORPORATION)	Schwerin, Dale (W...	02/15/2024	Kyle Shelby	02/20/2024	02/15/24					
	<p><b>Q:</b> Kyle Shelby Sent Thu Feb 15, 2024 at 11:02 am EST roof membrane for flashing the RTU above office. Is there a preferred contractor or is material under warranty?</p> <p><b>A:</b> Dale Schwerin (WOLGAST CORPORATION) Responded Thu Feb 15, 2024 at 06:34 pm EST Thomas Brown Roofing and Son holds the warranty for this roof.</p>													
3	door holders	Closed	WOLGAST CORPORATION	Shelby, Kyle (WOLGAST CORPORATION)	Burns, Rebekah (W... Reis, John (WTA A...	02/15/2024	Kyle Shelby	02/20/2024	02/20/24					
	<p><b>Q:</b> Kyle Shelby Sent Thu Feb 15, 2024 at 10:37 am EST drawing E2.03 under power &amp; systems wiring methods note 20 says that the hold opens at F107 and F108 (the bathrooms) are to remain. There is NO hold opens on the existing doors. Does new hold opens need to be added??</p> <p><b>A:</b> Kyle Shelby (WOLGAST CORPORATION) Responded Tue Feb 20, 2024 at 08:16 am EST per attachment new door holders do not need to be added to the bathrooms F107&amp;F108 <a href="#">2741623-Bay_City_PS_2024_SF-BP_11_Eastern_HS_at_Handy_MS-3-door_holders-2024-02-15.pdf</a></p>													
2	Radiant Ceiling Panel on BMS	Closed	WOLGAST CORPORATION	Schwerin, Dale (WOLGAST CORPORATION)	Burns, Rebekah (W...	02/13/2024	Dale Schwerin	02/16/2024	02/21/24					



Wolgast Corporation

Printed on Wed Feb 21, 2024 at 01:05 pm EST

Bay City PS 2024 SF - BP 11 Eastern HS at Handy MS  
 201 Woodside Lane  
 Bay City, Michigan 48706  
 9896869700

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
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Dale Schwerin Sent Tue Feb 13, 2024 at 04:09 pm EST  
 Drawing M4.02 - Modular Hot Water Radiant Ceiling Panel Schedule

- Q:**
- Is the intent to have the radiant ceiling panels on the BMS? Please clarify and provide a sequence of operation/points list.

Rebekah Burns (WTA ARCHITECTS) Responded Wed Feb 21, 2024 at 12:34 pm EST  
**A:** Response attached.  
[RFI 02.pdf](#)

1	Exhaust Fan on the BMS	Closed	WOLGAST CORPORATION	Schwerin, Dale (WOLGAST CORPORATION)	Burns, Rebekah (W...	02/13/2024	Dale Schwerin	02/16/2024	02/21/24					
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Dale Schwerin Sent Tue Feb 13, 2024 at 04:07 pm EST

- Q:**
- Drawing M4.01 - Exhaust Fan EF-1  
 Is exhaust fan EF-1 intended to be on the BMS? Please clarify.

Rebekah Burns (WTA ARCHITECTS) Responded Wed Feb 21, 2024 at 12:35 pm EST  
**A:** Response attached.  
[RFI 01.pdf](#)

**Project:** Bay City Public Schools  
2024 Sinking Fund Bid Pack 11 Eastern HS at Handy MS

Submitted By: \_\_\_\_\_  
(Bidder's Company Name)

Address: \_\_\_\_\_

City / State / Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Email: \_\_\_\_\_

**Bid Proposal Deadline:** Prior to **Friday, February 23, 2024 at 1:30 PM (local time)** to:

**Bay City Public Schools  
Stephen Bigelow, Superintendent,  
601 Blend Street  
Bay City MI 48706.**

**Electronic Sealed bids must be submitted using Building Connected see below link.**

<https://app.buildingconnected.com/login?retUrl=%2F>

**Bid Division Name:** \_\_\_\_\_

**Bid Division Number:** \_\_\_\_\_

**ADDENDA**

We (the Bidder) acknowledge receipt of the following Addenda:

- Addendum #1 – 2.21.24 \_\_\_\_\_
- Addendum #\_\_ Dated \_\_\_\_\_
- Addendum #\_\_ Dated \_\_\_\_\_

**BID BOND ATTACHED?**

**Yes, 5% Bid Bond is Attached**

**Certified Check/Money Order for 5% of Base Bid is Attached**

**BASE BID for Bay City Public Schools – BP 11 Eastern HS at Handy MS (not including Labor Bond, Material Bond, and/or Performance Bond Costs):**

\_\_\_\_\_ Dollars and 00/100ths

\$ \_\_\_\_\_

**BOND COST for Bay City Public Schools – BP 11 Eastern HS at Handy MS (Cost to provide Labor Bond, Material Bond, and/or Performance Bonds on Base Bid):**

\_\_\_\_\_ Dollars and 00/100ths

\$ \_\_\_\_\_

*COMBINED BID DEDUCT*

If awarded a contract for the Work, combining the following Bid Division(s), the corresponding amount(s) may be deducted from the Base Bid(s) of each of the involved Bid Divisions.

Bid Divisions Combined

Deduct from each Bid Division:

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ALTERNATES

**Alternate 1** – Existing Red Lockers to be prepped and painted.

**Alt 1** ADD/DEDUCT \_\_\_\_\_

**Alt 1** BOND \_\_\_\_\_

**Alternate 2** – Existing Red lockers to be removed and replaced with new metal lockers.

**Alt 2** ADD/DEDUCT \_\_\_\_\_

**Alt 2** BOND \_\_\_\_\_

**Alternate 3** – Existing Men’s and Women’s toilet rooms to be remodeled as shown in Drawings. For walls – SGFT walls to be patched with similar SGFT (color not matching) at plumbing locations, prepped and epoxy painted. *For Floors – cut and patch existing and provide new thin set ceramic tile and base over top of terrazzo.*

**Alt 3** ADD/DEDUCT \_\_\_\_\_

**Alt 3** BOND \_\_\_\_\_

**Alternate 4** – Existing Men’s and Women’s toilet rooms to be remodeled as shown on Drawings. For walls – Grind off terrazzo cove and SGFT Shelves and provide new ceramic wall tile on ½” tile backer board mechanically fastened to wall. At Urinal wall, include metal furring. *For Floors – cut and patch existing and provide new thin set ceramic tile and base over top of terrazzo.*

**Alt 4** ADD/DEDUCT \_\_\_\_\_

**Alt 4** BOND \_\_\_\_\_

**SUBMITTALS**

Anticipated Date of Shop Drawing Submittal at Post Bid Interview: \_\_\_\_\_

Anticipated Number of Days to Begin: \_\_\_\_\_

Anticipated Number of On-site Staff: \_\_\_\_\_

Anticipated Number of Days to Complete: \_\_\_\_\_

Anticipated Number of Days for Delivery of Needed Items: \_\_\_\_\_

Proposed Manufacturers, Suppliers, and/or Subcontractors:

<u>Item(s)</u>	<u>Manufacturer/Subcontractor/Supplier</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**VOLUNTARY ALTERNATES / VALUE ENGINEERING SUGGESTIONS**

We suggest the following alternate procedure(s) and/or material(s):

<u>Summary of Suggestions</u>	<u>Deduct from Base Bid</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**BID DIVISION RESPONSIBILITY**

We recognize that the Scope of Work within a Bid Division represents a construction segment that is not necessarily restricted to a single construction trade, and our Proposal includes work of all trades required to fully and successfully complete all of the Work required in the Bid Division(s) we have submitted Proposals for:

**SCHEDULE**

We have reviewed the Preliminary Milestone Schedule and hereby endorse it with regard to the Work of Bid Division(s) we have bid. ALL WORK MUST BE COMPLETED BY **Refer to Milestone Schedule.**



**EXCEPTIONS AND/OR SUBSTITUTIONS**

We have submitted our Proposal, as specified, complete and in accordance with the Bidding Documents, including Addenda and the Contract Documents, without exceptions or substitutions, unless otherwise noted in the "Voluntary Alternate / Value Engineering Suggestions" portion of this Proposal Form.

**EXECUTION**

Name of Bidder: \_\_\_\_\_

Bidder's Status:

Corporation;  Partnership;  Sole Proprietor;  Other: (Please Specify: \_\_\_\_\_)

By/Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

**END OF SECTION 00305**

### Familial Relationship Sworn Statement

\_\_\_\_\_ does hereby disclose that per MCL 380.1267:  
Company Name

**YES**, there exists a familial relationship between the Owner of the project or any member of their 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 and the Owner or an employee(s) of \_\_\_\_\_.  
Company Name

Disclosure Between:

Name \_\_\_\_\_ AND Name \_\_\_\_\_

Title: \_\_\_\_\_ Title: \_\_\_\_\_

Relationship: \_\_\_\_\_ Relationship: \_\_\_\_\_

**NO**, there does not exist a familial relationship between the Owner of the project or any member of their 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 and the Owner or an employee(s) of \_\_\_\_\_.  
Company Name

Name (printed): \_\_\_\_\_

Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Notary Public(printed): \_\_\_\_\_

Signature: \_\_\_\_\_

County: \_\_\_\_\_

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

Affix Notary Seal Here:



END OF SECTION 00306

## Iran Business Relationship Affidavit

Effective April 1, 2013, all bids, proposals, and/or qualification statements received in the State of Michigan must comply with the "Iran Economic Sanctions Act". The following certification is to be signed and included at time of submittal.

### CERTIFICATION

Pursuant to the Michigan Iran Economic Sanctions Act, 2012 P.A. 517, by submitting a bid, proposal or response, Respondent certifies, under civil penalty for false certification, that it is fully eligible to do so under law and that it is not an "Iran linked business," as that term is defined in the Act.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Company

\_\_\_\_\_  
Date

**END OF SECTION 00307**

**IRAN ECONOMIC SANCTIONS ACT**  
**Act 517 of 2012**

AN ACT to prohibit persons who have certain economic relationships with Iran from submitting bids on requests for proposals with this state, political subdivisions of this state, and other public entities; to require bidders for certain public contracts to submit certification of eligibility with the bid; to require reports; and to provide for sanctions for false certification.

**History:** 2012, Act 517, Eff. Apr. 1, 2013.

*The People of the State of Michigan enact:*

**129.311 Short title.**

Sec. 1. This act shall be known and may be cited as the "Iran economic sanctions act".

**History:** 2012, Act 517, Eff. Apr. 1, 2013.

**129.312 Definitions.**

Sec. 2. As used in this act:

(a) "Energy sector of Iran" means activities to develop petroleum or natural gas resources or nuclear power in Iran.

(b) "Investment" means 1 or more of the following:

(i) A commitment or contribution of funds or property.

(ii) A loan or other extension of credit.

(iii) The entry into or renewal of a contract for goods or services.

(c) "Investment activity" means 1 or more of the following:

(i) A person who has an investment of \$20,000,000.00 or more in the energy sector of Iran.

(ii) A financial institution that extends \$20,000,000.00 or more in credit to another person, for 45 days or more, if that person will use the credit for investment in the energy sector of Iran.

(d) "Iran" means any agency or instrumentality of Iran.

(e) "Iran linked business" means either of the following:

(i) A person engaging in investment activities in the energy sector of Iran, including a person that provides oil or liquefied natural gas tankers or products used to construct or maintain pipelines used to transport oil or liquefied natural gas for the energy sector of Iran.

(ii) A financial institution that extends credit to another person, if that person will use the credit to engage in investment activities in the energy sector of Iran.

(f) "Person" means any of the following:

(i) An individual, corporation, company, limited liability company, business association, partnership, society, trust, or any other nongovernmental entity, organization, or group.

(ii) Any governmental entity or instrumentality of a government, including a multilateral development institution, as defined in section 1701(c)(3) of the international financial institutional act, 22 USC 262r(c)(3).

(iii) Any successor, subunit, parent company, or subsidiary of, or company under common ownership or control with, any entity described in subparagraph (i) or (ii).

(g) "Public entity" means this state or an agency or authority of this state, school district, community college district, intermediate school district, city, village, township, county, public authority, or public airport authority.

**History:** 2012, Act 517, Eff. Apr. 1, 2013.

**129.313 Ineligibility of Iran linked business to submit request for proposal bid; certification.**

Sec. 3. (1) Beginning April 1, 2013, an Iran linked business is not eligible to submit a bid on a request for proposal with a public entity.

(2) Beginning April 1, 2013, a public entity shall require a person that submits a bid on a request for proposal with the public entity to certify that it is not an Iran linked business.

**History:** 2012, Act 517, Eff. Apr. 1, 2013.

**129.314 Effect of false certification.**

Sec. 4. If a public entity determines, using credible information available to the public, that a person has submitted a false certification under section 3(2), the public entity shall provide the person with written notice of its determination and of the intent not to enter into or renew a contract with the person. The notice shall include information on how to contest the determination and specify that the person may become eligible for a

future contract with the public entity if the person ceases the activities that cause it to be an Iran linked business. The person shall have 90 days following receipt of the notice to respond in writing and to demonstrate that the determination of false certification was made in error. If a person does not make that demonstration within 90 days after receipt of the notice, the public entity may terminate any existing contract and shall report the name of the person to the attorney general together with information supporting the determination.

**History:** 2012, Act 517, Eff. Apr. 1, 2013.

**129.315 Civil action; penalty.**

Sec. 5. The attorney general may bring a civil action against any person reported under section 4. If a civil action results in a finding that the person submitted a false certification, the person is responsible for a civil penalty of not more than \$250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the public entity's investigation, and reasonable attorney fees, in addition to the fine. A person who submitted a false certification shall be ineligible to bid on a request for proposal for 3 years from the date the public entity determines that the person has submitted the false certification.

**History:** 2012, Act 517, Eff. Apr. 1, 2013.

**129.316 Conditional effect.**

Sec. 6. The provisions of this act are effective only if Iran is a state sponsor of terror as defined under section 2 of the divestment from terror act, 2008 PA 234, MCL 129.292.

**History:** 2012, Act 517, Eff. Apr. 1, 2013.

**END OF SECTION 00307**

**State of Michigan**

**Official Request #:** 480  
**Requestor:** Bay City Public Schools  
**Project Description:**  
**Project Number:**

**Bay County**  
**Official Commercial Prevailing Wage Rates for State Funded Projects**  
**Issue Date:** 2/20/2024  
**Contract must be awarded by:** 5/20/2024

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Classification	Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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**A Operator (0-6 months)**

IBEW 876 & IBEW 17 - Teledata			12/14/2023	\$38.27	\$52.09	\$65.91	H H H X X X X D Y
<b>Apprentice Rates:</b>							
		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	

**A Operator (7-12 months)**

IBEW 876 & IBEW 17 - Teledata			12/14/2023	\$40.95	\$55.96	\$70.96	H H H X X X X D Y
<b>Apprentice Rates:</b>							
		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	

**Official Request #:** 480  
**Requestor:** Bay City Public Schools  
**Project Description:**  
**Project Number:**  
**County:** Bay 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 Commercial Prevailing Wage Rates for State Funded Projects**

**Issue Date: 2/20/2024**

**Contract must be awarded by: 5/20/2024**

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Classification	Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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**A Operator (over 1 yr)**

IBEW 876 & IBEW 17 - Teledata			12/14/2023				
				\$45.81	\$62.97	\$80.12	H H H X X X D Y
		<b>Apprentice Rates:</b>					
		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	

**B Operator (0-6 months)**

IBEW 876 & IBEW 17 - Teledata			12/14/2023				
				\$34.25	\$46.29	\$58.33	H H H X x X X D Y
		<b>Apprentice Rates:</b>					
		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	

Official Request #: 480  
 Requestor: Bay City Public Schools  
 Project Description:  
 Project Number:  
 County: Bay County

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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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

**B Operator (over 6 months)**

IBEW 876 & IBEW 17 - Teledata		12/14/2023								
			\$39.35	\$53.65	\$67.94	H	H	H	X X X X D Y	
<b>Apprentice Rates:</b>										
	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					

**Boilermaker**

BO169		12/13/2021								
	Boilermaker		\$72.47	\$107.55	\$142.63	H	H	H	H H H D Y	
<b>Apprentice Rates:</b>										
	1st Period		\$53.53	\$79.15	\$104.75					
	2nd Period		\$55.14	\$81.56	\$107.97					
	3rd Period		\$56.73	\$83.94	\$111.15					
	4th Period		\$58.31	\$86.31	\$114.31					
	5th Period		\$59.85	\$88.62	\$117.39					
	6th Period		\$63.03	\$93.39	\$123.75					
	7th Period		\$66.17	\$98.10	\$130.03					
	8th Period		\$69.32	\$102.83	\$136.33					



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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
<b>Bricklayer</b>					
BR2-7-BSP	11/9/2021				
Brick Masonry, Stone Masonry, Pointing, Caulking and Cleaning		\$48.60	\$62.44	\$76.27	H H H H H H D N
<b>Apprentice Rates:</b>					
0-749 hours		\$37.53	\$45.83	\$54.13	
750-1,499 hours		\$38.92	\$47.91	\$56.91	
1,500-2,249 hours		\$40.30	\$49.99	\$59.67	
2,250-2,999 hours		\$41.68	\$52.05	\$62.43	
3,000-3,749 hours		\$43.07	\$54.14	\$65.21	
3,750-4,499 hours		\$44.45	\$56.21	\$67.97	
4,500-5,249 hours		\$45.83	\$58.28	\$70.73	
5,250 hours		\$47.22	\$60.37	\$73.51	

**Cable spicer or COE foreman**

IBEW 876 & IBEW 17 - Teledata	1/10/2024				
		\$42.53	\$58.24	\$73.94	H H H X X X D Y
<b>Apprentice Rates:</b>					
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	

Official Request #: 480  
 Requestor: Bay City Public Schools  
 Project Description:  
 Project Number:  
 County: Bay County

**Official Rate Schedule**  
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**Official Commercial Prevailing Wage Rates for State Funded Projects**

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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**Cable spicer, Central Office Employee**

IBEW 876 & IBEW 17 - Teledata	1/10/2024	\$40.71	\$55.61	\$70.51	H H H X X X X D Y
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**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

**Carpenter**

CA706FL Resilient Floorlayer	8/4/2023	\$49.49	\$64.19	\$78.89	X X H H H H D N
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**Apprentice Rates:**

1st year	\$40.67	\$50.96	\$61.25
2nd year	\$42.14	\$53.17	\$64.19
3rd year	\$45.08	\$57.58	\$70.07
4th year	\$48.02	\$61.99	\$75.95

CA706SL Resilient Floorlayer	8/4/2023	\$49.49	\$64.19	\$78.89	H X H H H H h D N X
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**Apprentice Rates:**

4th year	\$48.02	\$61.99	\$75.95
3rd year	\$45.08	\$57.57	\$70.07
2nd year	\$42.14	\$53.17	\$64.19
1st year	\$40.67	\$50.96	\$61.25

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 County: Bay County

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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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Classification	Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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**Cell Tower Tech**

IBEW 876 & IBEW 17 - Teledata			12/14/2023	\$38.78	\$52.83	\$66.87	H H H X X X X D Y
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**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

**Cement Mason**

BR2-7-CM			11/9/2021	\$44.53	\$56.66	\$68.79	H H H H H H D N
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**Apprentice Rates:**

0-749 hours	\$36.04	\$43.93	\$51.81
750-1,499 hours	\$37.25	\$45.74	\$54.23
1,500-2,249 hours	\$38.47	\$47.57	\$56.67
2,250-2,999 hours	\$39.68	\$49.39	\$59.09
3,000-3,749 hours	\$40.89	\$51.20	\$61.51
3,750-4,499 hours	\$42.10	\$53.01	\$63.93
4,500 hours	\$44.53	\$56.66	\$68.79

CE514-B			11/29/2021	\$47.49	\$62.61	\$77.73	H H H H H H D Y
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**Apprentice Rates:**

1st Year	\$36.91	\$46.74	\$56.57
2nd Year	\$39.93	\$51.27	\$62.61
3rd Year	\$42.95	\$55.80	\$68.65

Official Request #: 480  
 Requestor: Bay City Public Schools  
 Project Description:  
 Project Number:  
 County: Bay County

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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
<b>Communication Technician</b>						
IBEW 876 & IBEW 17 - Roadway		12/14/2023	\$67.89	\$98.24	\$128.58	H H H H H H D Y

<b>Drywall</b>						
PT-1803-DF		1/7/2022	\$44.69	\$57.32	\$69.95	H H H H H H D Y
Drywall Finisher 4 10 hour days allowed on consecutive days, Monday-Friday. Make up day allowed M-F for work missed due to holidays or inclement weather.						
<b>Apprentice Rates:</b>						
	Level 1		\$32.06	\$38.37	\$44.69	
	Level 2		\$37.11	\$45.95	\$54.79	
	Level 3		\$42.16	\$53.53	\$64.89	
<i>comment make up day allowed Monday or Friday</i>						

<b>Electrician</b>						
EC-692-IW-Z1		2/13/2024	\$59.42	\$83.96	\$108.49	H H H H H H D Y
Inside Wireman - Journeyman						
<b>Apprentice Rates:</b>						
	0-1,000 hours		\$24.27	\$32.07	\$39.87	
	1,000-1,999 hours		\$26.23	\$35.01	\$43.79	
	2,000-2,999 hours		\$28.18	\$37.94	\$47.69	
	3,000-3,999 hours		\$30.13	\$40.86	\$51.59	
	4,000-5,999 hours		\$34.43	\$47.31	\$60.19	
	6,000-7,999 hours		\$27.55	\$39.42	\$51.30	
	8,000+ hours		\$43.01	\$60.18	\$77.35	
<i>comment make up day allowed Four 10s allowed M-F; Monday or Friday may be used for make-up days.</i>						

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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
EC-692-SC		9/28/2016				
Sound and Communication Installer/Technician			\$29.92	\$41.93	\$53.94	H H H H H H D N
	<b>Apprentice Rates:</b>					
	1st period		\$12.37	\$17.58	\$22.79	
	2nd period		\$14.70	\$21.07	\$27.45	
	3rd period		\$17.02	\$24.56	\$32.09	
	4th period		\$19.33	\$28.02	\$36.71	

**Elevator Constructor**

Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
EL 36		8/7/2007				
Elevator Constructor Mechanic			\$96.27		\$151.73	D D D D D D D D Y
	<b>Apprentice Rates:</b>					
	1st Year Apprentice		\$70.42		\$100.92	
	2nd Year Apprentice		\$75.97		\$112.02	
	3rd Year Apprentice		\$78.74		\$117.56	
	4th Year Apprentice		\$84.29		\$128.66	

*make up day allowed*

**Equipment Operator (line truck & man lifts)**

Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
IBEW 876 & IBEW 17 - Teledata		12/14/2023				
			\$38.78	\$52.83	\$66.87	H H H X X X D Y
	<b>Apprentice Rates:</b>					
	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	

Official Request #: 480  
 Requestor: Bay City Public Schools  
 Project Description:  
 Project Number:  
 County: Bay County

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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
<b>Fiber Optic Splicer</b>					
IBEW 876 & IBEW 17 - Roadway	12/14/2023	\$67.89	\$98.24	\$128.58	H H H H H H D Y
<b>Foreman</b>					
IBEW 876 & IBEW 17 - Roadway	12/14/2023	\$75.47	\$109.61	\$143.74	H H H H H H D Y
IBEW 876 & IBEW 17 - Teledata In charge of three man crew	12/14/2023	\$40.71	\$55.61	\$70.51	H H H X X X D Y
<b>Apprentice Rates:</b>					
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	
<b>Apprentice Rates:</b>					
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	

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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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

GL-826			12/9/2021				
Glazier	4 tens allowed on consecutive days			\$49.84	\$67.73	\$85.62	H H H H H H D Y
	<b>Apprentice Rates:</b>						
	1st level			\$31.62	\$40.40	\$49.18	
	2nd level			\$35.12	\$45.66	\$56.18	
	3rd Level			\$40.38	\$53.54	\$66.70	
	4th level			\$45.66	\$61.46	\$77.26	

**Heat and Frost Insulator**

AS25S			6/2/2016				
Spray Insulation				\$25.29	\$36.51		X X X H H H H N

**Heat and Frost Insulator and Asbestos Worker**

AS47			12/20/2021				
Heat and Frost Insulators and Asbestos Workers				\$52.00	\$68.89	\$85.77	X X X H H H D Y
	<b>Apprentice Rates:</b>						
	1st year			\$26.38	\$33.69	\$40.99	
	2nd year			\$30.15	\$38.92	\$47.68	
	3rd year			\$33.92	\$44.15	\$54.37	
	4th year			\$37.70	\$49.39	\$61.08	
	5th year			\$41.48	\$54.63	\$67.78	

*comment make up day allowed*  
Friday for cancelled work in a 4 10 schedule

Official Request #: 480  
Requestor: Bay City Public Schools  
Project Description:  
Project Number:  
County: Bay County

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

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

**Installer - Repairman**

Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
IBEW 876 & IBEW 17 - Teledata		12/14/2023	\$38.78	\$52.83	\$66.87	H H H X X X X D Y
	<b>Apprentice Rates:</b>					
	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	

**Ironworker**

Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
IR-25-RF		8/15/2023	\$69.51	\$85.85	\$102.19	H H D H H D D D N
Reinforced Iron Work						
	<b>Apprentice Rates:</b>					
	Level 8		\$66.76	\$82.48	\$98.19	
	Level 7		\$66.76	\$82.48	\$98.19	
	Level 1		\$52.63	\$64.23	\$75.83	
	Level 2		\$54.68	\$66.77	\$78.86	
	Level 3		\$56.56	\$68.98	\$81.40	
	Level 4		\$59.41	\$72.65	\$85.88	
	Level 5		\$62.27	\$76.32	\$90.37	
	Level 6		\$66.76	\$82.48	\$98.19	

*make up day allowed*

Official Request #: 480  
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 Project Description:  
 Project Number:  
 County: Bay County

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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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Classification	Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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IR-25-RIG			8/15/2023				
Rigging Work				\$76.08	\$92.93	\$109.78	H H D H H H D D N

**Apprentice Rates:**

Level 8				\$69.43	\$84.94	\$100.45	
Level 1				\$51.75	\$62.38	\$73.01	
Level 2				\$52.56	\$63.54	\$74.52	
Level 3				\$54.83	\$66.33	\$77.83	
Level 4				\$57.51	\$69.71	\$81.91	
Level 5				\$60.60	\$73.67	\$86.74	
Level 6				\$63.27	\$77.04	\$90.80	
Level 7				\$66.35	\$80.99	\$95.62	

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IR-25-STR			8/15/2023				
Structural, ornamental, welder and pre-cast	If bad weather, Friday may be a make up day. If holiday celebrated on a Monday, 4 10s may be worked Tuesday thru Friday.			\$76.21	\$102.75	\$129.29	H H D H H H D D Y

**Apprentice Rates:**

Level 8				\$69.43	\$84.94	\$100.45	
Level 1				\$51.25	\$61.88	\$72.51	
Level 2				\$52.56	\$63.54	\$74.52	
Level 3				\$54.83	\$66.33	\$77.83	
Level 4				\$57.51	\$70.34	\$83.17	
Level 5				\$60.60	\$73.67	\$86.74	
Level 6				\$63.27	\$77.04	\$90.80	
Level 7				\$66.35	\$80.98	\$95.62	

*make up day allowed*

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**Journeyman Signal Technician**

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IBEW 876 & IBEW 17 - Roadway			12/14/2023				
				\$67.89	\$98.24	\$128.58	H H H H H H D Y

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Official Request #: 480  
 Requestor: Bay City Public Schools  
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**Official Commercial Prevailing Wage Rates for State Funded Projects**

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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

IBEW 876 & IBEW 17 - Roadway	12/14/2023			\$76.98	\$111.87	\$146.76	H H H H H H D Y
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**Labor Crew Foreman**

IBEW 876 & IBEW 17 - Roadway	12/14/2023			\$61.86	\$89.19	\$116.52	H H H H H H D Y
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**Laborer**

L1098-S-A	2/13/2024			\$37.71	\$49.72	\$61.72	X X H H H H D Y
Class A Laborer on building and heavy construction work, mortar mixers, mason tender, carpenter tender, fire watch, all 3" pumps and below, plaster mixers, plaster tenders, pipe or crock layers, signal men and top men on caisson work, mechanized buggy ope							

**Apprentice Rates:**

0-1,000 work hours	\$30.97	\$39.52	\$48.12
1,001-2,000 work hours	\$32.12	\$41.24	\$50.42
2,001-3,000 work hours	\$33.27	\$42.97	\$52.72
3,001-4,000 work hours	\$35.56	\$46.40	\$57.30

*comment make up day allowed Saturday*

L1098-S-B	2/13/2024			\$38.27	\$50.60	\$62.86	X X H H H H D Y
Class B Laborer air or electric-driven pavement breakers and jackhammers over 50 lbs., tunnel miners and tunnel muckers, tunnel and shaft underpinning contributing to the structural support of buildings							

**Apprentice Rates:**

0-1,000 work hours	\$31.40	\$40.20	\$49.00
1,001-2,000 work hours	\$32.58	\$41.97	\$51.36
2,001-3,000 work hours	\$33.75	\$43.72	\$53.70
3,001-4,000 work hours	\$36.10	\$47.25	\$58.40

*comment make up day allowed Saturday*

Official Request #: 480  
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 Project Description:  
 Project Number:  
 County: Bay County

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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
L1098-S-C		2/13/2024				
Class C Laborer-drillers, blasters, burners, welders, & refractory work			\$38.84	\$51.46	\$64.02	X X H H H H H D Y
	<b>Apprentice Rates:</b>					
	0-1,000 work hours		\$31.81	\$40.84	\$49.86	
	1,001-2,000 work hours		\$33.02	\$42.65	\$52.28	
	2,001-3,000 work hours		\$34.22	\$44.45	\$54.68	
	3,001-4,000 work hours		\$36.63	\$48.06	\$59.50	
<i>comment</i>	<i>make up day allowed</i>					
	Saturday					
MITA-RZ2-C1		8/9/2023				
Laborer Road Class 1: asphalt shoveler or loader, yard man, fence erector tender, dumper, joint filling, form setting, form stripper, pavement reinforcing, waterproofing, seal coating, bridge painting, sandblasting, pressure grouting, RC equipment			\$45.39	\$58.38	\$71.36	H H H H H H H D Y
	<b>Apprentice Rates:</b>					
	3,001-4,000 hours					
	2,001-3,000 hours					
	1,001-2,000 hours					
	0-1,000 hours					
	3,001-4,000 hours		\$44.09	\$56.42	\$68.76	
	2,001-3,000 hours		\$41.49	\$52.52	\$63.56	
	1,001-2,000 hours		\$40.20	\$50.59	\$60.98	
	0-1,000 hours		\$38.90	\$48.64	\$58.38	
MITA-RZ2-C2		8/9/2023				
Laborer Road Class 2: mixer operator, air or electric tool operator, spreader, boxman, concreter paddler, power chain saw operator, paving patch truck dumper, tunnel mucker, concrete saw operator, dry pack machine and roto-mill grounds person			\$45.59	\$58.18	\$71.26	H H H H H H H D Y
	<b>Apprentice Rates:</b>					
	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	

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
=====						
MITA-RZ2-C3		1/5/2022				
Laborer Road Class 3:	tunnel miner, finish tenders, guard rail builder, median barrier installer, earth retention barrier and wall installer, fence erector, bottom man, powder man, wagon drill and air track operator, curb and side rail setter		\$45.43	\$58.64	\$71.84	H H H H H H D Y
	<b>Apprentice Rates:</b>					
	3,001-4,000 hours		\$44.11	\$56.66	\$69.20	
	2,001-3,000 hours		\$41.47	\$52.70	\$63.92	
	1,001-2,000 hours		\$40.15	\$50.72	\$61.28	
	0-1,000 hours		\$38.83	\$48.74	\$58.64	
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MITA-RZ2-C4		8/9/2023				
Laborer Road Class 4:	asphalt raker		\$46.18	\$59.56	\$72.94	H H H H H H D Y
	<b>Apprentice Rates:</b>					
	3,001-4,000 hours		\$44.84	\$57.55	\$70.26	
	2,001-3,000 hours		\$42.17	\$53.54	\$64.92	
	1,001-2,000 hours		\$40.83	\$51.54	\$62.24	
	0-1,000 hours		\$39.49	\$49.52	\$59.56	
-----						
MITA-RZ2-C5		8/9/2023				
Laborer Road Class 5:	pipe layers, oxy-gun		\$46.05	\$59.37	\$72.68	H H H H H H D Y
	<b>Apprentice Rates:</b>					
	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 form setter for curb or pavement, asphalt screed checker/screw man on asphalt paving machines		\$46.39	\$59.88	\$73.36	H H H H H H D Y
	<b>Apprentice Rates:</b>					
	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	
=====						

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
MITA-RZ2-C7		1/5/2022				
Laborer Road Class 7: concrete specialist - including finishing and trowling, cast in place or precast by any method			\$48.96	\$63.73	\$78.50	H H H H H H D Y
	<b>Apprentice Rates:</b>					
	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	
MLDC		12/12/2023				
Asbestos & Lead Abatement Laborer	4 ten hour days @ straight time allowed Monday-Saturday, must be consecutive calendar days		\$50.60	\$65.37	\$80.13	H H H X X X D Y
	<b>Apprentice Rates:</b>					
	Trainee 600 hours +1 year		\$34.07			
<b>Laborer - Hazardous</b>						
LHAZ-Z8-A		12/14/2021				
Class A Laborer - performing work in conjunction with site preparation and other preliminary work prior to actual removal, handling, or containment of hazardous waste substances not requiring use of personal protective equipment required by state or feder			\$34.21	\$44.68	\$55.15	H H H H H H D Y
	<b>Apprentice Rates:</b>					
	0-1,000 work hours		\$28.97	\$36.82	\$44.67	
	1,001-2,000 work hours		\$30.02	\$38.39	\$46.77	
	2,001-3,000 work hours		\$31.07	\$39.97	\$48.87	
	3,001-4,000 work hours		\$33.16	\$43.11	\$53.05	
	<i>comment make up day allowed</i>					
	4 10s allowed M-Th or T-F; inclement weather makeup day Friday					

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

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
LHAZ-Z8-B		12/14/2021				
	Class B Laborer - performing work in conjunction with the removal, handling, or containment of hazardous waste substances when the use of personal protective equipment levels "A", "B" or "C" is required.		\$35.20	\$49.67	\$64.14	H H H H H H D Y
	<b>Apprentice Rates:</b>					
	0-1,000 work hours		\$29.71	\$41.44	\$53.16	
	1,001-2,000 work hours		\$30.81	\$43.08	\$55.36	
	2,001-3,000 work hours		\$31.91	\$44.74	\$57.56	
	3,001-4,000 work hours		\$34.10	\$48.02	\$61.94	
	<i>comment make up day allowed</i>					
	4 10s allowed M-Th or T-F; inclement weather makeup day Friday					
<hr/>						
<b>Laborer - Landscape</b>						
LLAN-Z1-A		8/9/2023				
	Class B1: Landscape Operator includes air, gas, and diesel equipment operator, lawn sprinkler installer, skidsteer, mini excavators, backhoe loaders, ride and walk behind trenchers, off road dump vehicle, articulated haulers, hydroseeder, wheel loaders		\$32.40	\$42.43	\$52.95	X X H X X X H D Y
LLAN-Z1-B		8/9/2023				
	Class B2: Skilled Landscape Laborer: small power tool operator, lawn sprinkler installers' tender, irrigation installers' tender, material mover		\$30.40	\$39.93	\$49.45	X X H X X X H D Y
LLAN-Z2-A		8/9/2023				
	Class B1: Landscape Operator includes air, gas, and diesel equipment operator, lawn sprinkler installer, skidsteer, mini excavators, ride and walk behind trenchers, backhoe loaders, off road dump vehicle, articulated haulers, hydroseeder, wheel loaders		\$32.40	\$42.96	\$53.48	X X H X X X H D Y
LLAN-Z2-B		8/9/2023				
	Class B2: Skilled Landscape Laborer: small power tool operator, lawn sprinkler installers' tender, irrigation installers' tender material mover		\$30.40	\$39.93	\$49.45	X X H X X X H D Y
LLAN-Z2-C		1/7/2022				
	Class C: landscape laborer with 90 or more calendar days worked		\$24.66	\$33.27	\$41.87	H H H H H H D N

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Official Request #: 480	<b>Official Rate Schedule</b>
Requestor: Bay City Public Schools	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.
Project Description:	
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**Official Commercial Prevailing Wage Rates for State Funded Projects**

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
LLAN-Z2-D		1/7/2022				
Class D: Inexperienced landscape laborer - individual who has worked less than 90 calendar days			\$15.54	\$23.31	\$31.08	H H H H H H D N

**Laborer Underground - Tunnel, Shaft & Caisson**

LAUCT-Z2-1		8/8/2023				
Class I - Tunnel, shaft and caisson laborer, dump man, shanty man, hog house tender, testing man (on gas), and watchman.			\$38.97	\$50.26	\$61.54	X X X X X X D Y

**Apprentice Rates:**

0-1,000 work hours	\$32.85	\$42.64	\$52.43
1,001-2,000 work hours	\$33.97	\$44.32	\$54.67
2,001-3,000 work hours	\$35.08	\$45.99	\$56.89
3,001-4,000 work hours	\$37.31	\$49.33	\$61.35

LAUCT-Z2-2		8/8/2023				
Class II - Manhole, headwall, catch basin builder, bricklayer tender, mortar man, material mixer, fence erector, and guard rail builder			\$39.06	\$50.39	\$61.72	X X X X X X D Y

**Apprentice Rates:**

0-1,000 work hours	\$32.92	\$42.75	\$52.57
1,001-2,000 work hours	\$34.04	\$44.43	\$54.81
2,001-3,000 work hours	\$35.16	\$46.11	\$57.05
3,001-4,000 work hours	\$37.39	\$49.45	\$61.51

LAUCT-Z2-3		8/8/2023				
Class III - Air tool operator (jack hammer man, bush hammer man and grinding man), first bottom man, second bottom man, cage tender, car pusher, carrier man, concrete man, concrete form man, concrete repair man, cement invert laborer, cement finisher, con			\$39.16	\$50.54	\$61.92	X X X X X X D Y

**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

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

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
LAUCT-Z2-4		8/8/2023				
Class IV - Tunnel, shaft and caisson mucker, bracer man, liner plate man, long haul dinky driver and well point man.			\$39.58	\$51.17	\$62.76	X X X X X X D Y
	<b>Apprentice Rates:</b>					
	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		\$37.64	\$49.83	\$62.01	
LAUCT-Z2-5		8/8/2023				
Class V - Tunnel, shaft and caisson miner, drill runner, keyboard operator, power knife operator, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars)			\$39.58	\$51.17	\$62.76	X X X X X X D Y
	<b>Apprentice Rates:</b>					
	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	
LAUCT-Z2-6		1/4/2022				
Class VI - Dynamite man and powder man.			\$39.34	\$52.38	\$65.41	X X X X X X D Y
	<b>Apprentice Rates:</b>					
	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	

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
LAUCT-Z2-7		8/8/2023				
	Class VII - Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes and flagstones.		\$32.16	\$40.04	\$47.92	X X X X X X X D Y
	<b>Apprentice Rates:</b>					
	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	

**Laborer -Underground Open Cut, Class I**

LAUC-Z4-1		8/8/2023				
	Construction Laborer		\$35.82	\$45.48	\$55.13	X X X X X X X D Y
	<b>Apprentice Rates:</b>					
	0-1,000 work hours		\$30.52	\$39.16	\$47.79	
	1,001-2,000 work hours		\$31.47	\$40.59	\$49.69	
	2,001-3,000 work hours		\$32.42	\$42.01	\$51.59	
	3,001-4,000 work hours		\$34.32	\$44.86	\$55.39	

**Laborer -Underground Open Cut, Class II**

LAUC-Z4-2		1/4/2022				
	Mortar and material mixer, concrete form man, signal man, well point man, manhole, headwall and catch basin builder, guard rail builders, headwall, seawall, breakwall, dock builder and fence erector.		\$35.95	\$45.67	\$55.39	X X X X X X X D Y
	<b>Apprentice Rates:</b>					
	0-1,000 work hours		\$30.62	\$39.31	\$47.99	
	1,001-2,000 work hours		\$31.57	\$40.73	\$49.89	
	2,001-3,000 work hours		\$32.53	\$42.17	\$51.81	
	3,001-4,000 work hours		\$34.44	\$45.04	\$55.63	

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

**Laborer -Underground Open Cut, Class III**

Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
LAUC-Z4-3		8/8/2023				
	Air, gasoline and electric tool operator, vibrator operator, drillers, pump man, tar kettle operator, bracers, rodder, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars, etc.), cement finisher, welder, pipe jacking and boring man, wagon		\$36.06	\$45.84	\$55.61	X X X X X X X D Y

**Apprentice Rates:**

0-1,000 work hours	\$30.70	\$39.43	\$48.15
1,001-2,000 work hours	\$31.66	\$40.87	\$50.07
2,001-3,000 work hours	\$32.62	\$42.31	\$51.99
3,001-4,000 work hours	\$34.55	\$45.21	\$55.85

**Laborer -Underground Open Cut, Class IV**

Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
LAUC-Z4-4		8/8/2023				
	Trench or excavating grade man.		\$36.13	\$45.94	\$55.75	X X X X X X X D Y

**Apprentice Rates:**

0-1,000 work hours	\$30.75	\$39.51	\$48.25
1,001-2,000 work hours	\$31.72	\$40.96	\$50.19
2,001-3,000 work hours	\$32.68	\$42.40	\$52.11
3,001-4,000 work hours	\$34.61	\$45.29	\$55.97

**Laborer -Underground Open Cut, Class V**

Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
LAUC-Z4-5		8/8/2023				
	Pipe Layer (including crock, metal pipe, multiplate or other conduits)		\$36.25	\$46.12	\$55.99	X X X X X X X D Y

**Apprentice Rates:**

0-1,000 work hours	\$30.84	\$39.64	\$48.43
1,001-2,000 work hours	\$31.81	\$41.09	\$50.37
2,001-3,000 work hours	\$32.78	\$42.55	\$52.31
3,001-4,000 work hours	\$34.73	\$45.47	\$56.21

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**-----**  
**-----**  
**Laborer -Underground Open Cut, Class VI**  
**-----**

LAUC-Z4-6		8/8/2023				
Grouting man, top man assistant, audio visual television operations and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work & the installation and repair of water service pipe and appurtenance			\$33.47	\$41.95	\$50.43	X X X X X X D Y

**Apprentice Rates:**

0-1,000 work hours	\$28.76	\$36.52	\$44.27
1,001-2,000 work hours	\$29.59	\$37.77	\$45.93
2,001-3,000 work hours	\$30.42	\$39.01	\$47.59
3,001-4,000 work hours	\$32.09	\$41.51	\$50.93

**-----**  
**-----**  
**Laborer -Underground Open Cut, Class VII**  
**-----**

LAUC-Z4-7		8/8/2023				
Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes, flagstones etc.			\$31.81	\$39.46	\$47.11	X X X X X X D Y

**Apprentice Rates:**

0-1,000 work hours	\$27.51	\$34.65	\$41.77
1,001-2,000 work hours	\$28.26	\$35.77	\$43.27
2,001-3,000 work hours	\$29.01	\$36.89	\$44.77
3,001-4,000 work hours	\$30.51	\$39.15	\$47.77

**-----**  
**-----**  
**Landscape Laborer**  
**-----**

LLAN-Z1-A		1/10/2024				
Class A: Irrigation Foremen and Construction Foremen.			\$34.62	\$46.26	\$57.89	X X H X X x H D Y H

**-----**  
**-----**  
**Landscape Laborer**  
**-----**

LLAN-Z1		8/9/2023				
Class A: Irrigation Foremen and Construction Foremen.			\$34.62	\$46.26	\$57.89	X X H X X X D Y

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Classification	Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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Subdivision of county      Zones 1 & 2

**Lineman, Teledata Wireman**

IBEW 876 & IBEW 17 - Teledata	12/14/2023		\$38.78	\$52.83	\$66.87	H H H X X X X D Y
<b>Apprentice Rates:</b>						
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	

**Operating Engineer**

EN-324-FL Forklift, lull, extend-a-boom forklift shall be paid at double time.	1/10/2024	Work in excess of 12 per day M-F	\$63.36	\$79.81	\$96.25	X X X X D D D D Y
EN-324-Statewide Class I - diver/wet tender, engineer, blaster, leverman	8/18/2023		\$82.82	\$107.82	\$132.82	X X X X X X D N H
EN-324-Statewide-III Class III - Deck equip. operator, maintenance of crane or excavator, tug/launch operator, loader/dozer on barge/deck machinery, truck-able tug, lead surveyor, ROV operator, AB deckhand, welder	8/18/2023		\$76.82	\$98.82	\$120.82	X X X X X X D N
EN-324-Statewide-IV Class IV - Deck equipment operator, machineryman/fireman, off road trucks, deck hand, tug engineer, assistant tug operator, blaster helper, deck hand, jet machine, subsea plow, trencher, tug engineer	8/18/2023		\$72.32	\$92.07	\$111.82	H X X X X X D N X

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
EN-324-SW	Ground man/ light plants / welder / pumps under 6"	8/18/2023	\$41.43	\$54.43	\$67.42	H H D H H H D D Y
EN-AC	Compressor or Welding Machine Four 10 hour days may be scheduled Monday-Thursday or Tuesday-Friday. Work not performed due to weather, Monday-Thursday may be scheduled on Friday. <i>comment make up day allowed Friday</i>	8/18/2023	\$56.05	\$69.32	\$82.58	X X X X D D D D Y
EN-F	Forklift or Straight Mast  Four 10 hour days may be scheduled M-Th or T-F. Work not performed due to weather on M-Th may be scheduled on Friday <i>comment make up day allowed Friday</i>	8/18/2023	\$57.50	\$71.40	\$85.29	X X X X D D D D Y
EN-FO	Fireman or Oiler  Four 10 hour days may be scheduled Monday-Thursday or Tuesday-Friday. Work not performed due to weather, Monday-Thursday may be scheduled on Friday. <i>comment make up day allowed Friday</i>	8/18/2023	\$55.02	\$67.84	\$80.65	X X X X D D D D Y
en-l	Lull or Extend-a-Boom Forklift Four 10 hour days may be scheduled M-Th or T-F. Work not performed due to weather on M-Th may be scheduled on Friday <i>comment make up day allowed Friday</i>	12/10/2021	\$59.73	\$77.09	\$94.45	X X H H D D D D Y
en-os120	Crane with main boom & jib 120' or longer Four 10 hour days may be scheduled Monday-Thursday or Tuesday-Friday. Worked not performed due to weather, Monday-Thursday may be scheuled Friday <i>comment make up day allowed Friday</i>	12/10/2021	\$63.27	\$82.40	\$101.53	X X H H D D D D Y

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<u>Classification</u>		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
EN-OSA		12/10/2021				
	Crane w/ main Boom & Jib 220' or longer		\$64.38	\$84.07	\$103.75	X X H H D D D D Y
	Four 10 hour days may be scheduled Monday-Thursday or Tuesday-Friday. Work not performed due to weather, Monday-Thursday may be scheduled on Friday.					
	<i>comment make up day allowed</i>					
	Friday					
EN-OSA3		12/10/2021				
	Crane w/ main Boom & Jib 300' or longer		\$65.89	\$86.33	\$106.77	X X H H D D D D Y
	Four 10 hour days may be scheduled Monday-Thursday or Tuesday-Friday. Work unable to be performed due to weather, Monday-Thursday may be scheduled on Friday.					
	<i>comment make up day allowed</i>					
	Friday					
EN-OSA4		8/18/2023				
	Crane w/ main Boom & Jib 400' or longer		\$78.46	\$101.49	\$124.52	X X X X X X X D Y
	Four 10 hour days may be scheduled Monday-Thursday or Tuesday-Friday. Work not performed due to weather, Monday-Thursday may be scheduled on Friday.					
	<i>comment make up day allowed</i>					
	Friday					
EN-OSB		12/10/2021				
	Crane with main boom and jib 140' or longer		\$64.09	\$83.63	\$103.17	X X H H D D D D Y
	Four 10 hour days may be scheduled Monday-Thursday or Tuesday-Friday. Work unable to be performed due to weather, Monday-Thursday may be scheduled on Friday.					
	<i>comment make up day allowed</i>					
	Friday					
EN-RC		8/18/2023				
	Regular Crane Operator, Job Mechanic, Concrete Pump with Boom		\$66.04	\$83.65	\$101.26	X X X X D D D D Y
	Four 10 hour days may be scheduled Monday-Thursday or Tuesday-Friday. Work not performed due to weather, Monday-Thursday may be scheduled on Friday.					
	<b>Apprentice Rates:</b>					
	0-999 hours		\$51.13	\$64.18	\$77.22	
	1,000-1,999 hours		\$52.99	\$66.96	\$80.94	
	2,000-2,999 hours		\$54.86	\$69.77	\$84.68	
	3,000-3,999 hours		\$56.72	\$72.56	\$88.40	
	4,000-4,999 hours		\$58.59	\$75.36	\$92.14	
	5,000-5,999 hours		\$60.44	\$78.15	\$95.84	
	<i>comment make up day allowed</i>					
	Friday					

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
en-re	8/18/2023				
Regular Engineer, Hydro Excavator & Remote Controlled Concrete Breaker Four 10 hour days may be scheduled Monday-Thursday or Tuesday-Friday. Work not performed due to weather, Monday-Thursday may be scheduled on Friday.		\$65.07	\$82.26	\$99.44	X X X X D D D D Y
<b>Apprentice Rates:</b>					
5,000-5,999 hours		\$63.09	\$81.87	\$100.64	
4,000-4,999 hours		\$61.11	\$78.90	\$96.68	
3,000-3,999 hours		\$59.13	\$75.93	\$92.72	
2,000-2,999 hours		\$57.16	\$72.97	\$88.78	
1,000-1,999 hours		\$55.19	\$70.02	\$84.84	
1-999 hours		\$53.21	\$67.02	\$80.85	

*comment make up day allowed Friday*

OE-324-Statewide	8/17/2023				
Journeyman - Class IV		\$56.46	\$70.09	\$83.72	X X X X X X D Y
<b>Apprentice Rates:</b>					
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	
<b>Apprentice Rates:</b>					
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	

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

**Operating Engineer - Marine Construction**

GLF D		12/16/2021				
Diver/Wet Tender/Tender/Rov Pilot/Rov Tender			\$52.81	\$78.57	\$104.32	H H H H H H D N
GLF-1		1/7/2022				
Diver/Wet Tender, Engineer (hydraulic dredge)			\$78.97	\$102.47	\$125.97	X X H H H H D Y
	<i>make up day allowed</i>					
	<u>Subdivision of county</u>					
	all Great Lakes, islands therein, & connecting & tributary waters					

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Classification Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
GLF-2		1/7/2022				
	Crane/Backhoe Operator, 70 ton or over Tug Operator, Mechanic/Welder, Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender		\$77.47	\$100.22	\$122.97	X X H H H H H D Y
	<i>make up day allowed</i>					
	<u>Subdivision of county</u> All Great Lakes, islands therein, & connecting & tributary waters					
GLF-2B		1/7/2022				
	Friction, Lattice Boom or Crane License Certification30		\$78.97	\$102.47	\$125.97	X X H H H H H D Y
	<i>make up day allowed</i>					
	<u>Subdivision of county</u> All Great Lakes, islands, therein, & connecting & tributary waters					
GLF-3		1/7/2022				
	Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs or more), Tug/Launch Operator, Loader, Dozer on Barge, Deck Machinery		\$72.92	\$93.40	\$113.87	X X H H H H H D Y
	<i>make up day allowed</i>					
	<u>Subdivision of county</u> All Great Lakes, islands therein, & connecting & tributary waters					
GLF-4		1/7/2022				
	Deck Equipment Operator, (Machineryman/Fireman), (4 equipment units or more), Off Road Trucks, Deck Hand, Tug Engineer, & Crane Maintenance 50 ton capacity and under or Backhoe 115,000 lbs or less, Assistant Tug Operator		\$66.72	\$84.10	\$101.47	X X H H H H H D Y
	<i>make up day allowed</i>					
	<u>Subdivision of county</u> All Great Lakes, islands therein, & connecting & tributary waters					
<b>Operating Engineer Steel Work</b>						
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
	<i>comment make up day allowed</i> 4 10s allowed M-Th with Friday makeup day because of bad weather					
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
	<i>comment make up day allowed</i> 4 10s allowed M-Th with Friday makeup day because of bad weather					
EN-324-SW120-O		8/18/2023				
	Crane w/ 120' boom or longer w/ Oiler		\$75.01	\$96.54	\$118.07	H H D H H H D D Y
	<i>comment make up day allowed</i> 4 10s allowed M-Th with Friday makeup day because of bad weather					

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Classification		Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
Name	Description					
EN-324-SW140		8/18/2023				
Crane w/ 140' boom or longer			\$75.19	\$96.80	\$118.41	H H D H H H D D Y
<i>comment</i>	<i>make up day allowed</i>					
	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
<i>comment</i>	<i>make up day allowed</i>					
	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
<i>comment</i>	<i>make up day allowed</i>					
	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	H H D H H H D D Y
<i>comment</i>	<i>make up day allowed</i>					
	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
<i>comment</i>	<i>make up day allowed</i>					
	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
<i>comment</i>	<i>make up day allowed</i>					
	4 10s allowed M-Th with Friday makeup day because of bad weather					
-----						
EN-324-SW400		8/18/2023				
Boom & Jib 400' or longer			\$78.46	\$101.49	\$124.52	H H D H H H D D Y
<i>comment</i>	<i>make up day allowed</i>					
	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
<i>comment</i>	<i>make up day allowed</i>					
	4 10s allowed M-Th with Friday makeup day because of bad weather					

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	EN-324-SWCO		8/18/2023				
	Crane Operator, Job Mechanic, 3 Drum Hoist & Excavator			\$73.65	\$94.59	\$115.53	H H D H H H D D Y
		<b>Apprentice Rates:</b>					
		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	
		<i>comment make up day allowed</i>					
		4 10s allowed M-Th with Friday makeup day because of bad weather					
	EN-324-SWCO-O		8/18/2023				
	Crane Operator w/ Oiler			\$74.65	\$96.03	\$117.40	H H D H H H D D Y
		<i>comment make up day allowed</i>					
		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	H H D H H H D D Y
		<i>comment make up day allowed</i>					
		4 10s allowed M-Th with Friday makeup day because of bad weather					
	EN-324-SWHO		8/18/2023				
	Hoisting Operator, 2 Drum Hoist, & Rubber Tire Backhoe			\$73.01	\$93.67	\$114.33	H H D H H H D D Y
		<i>comment make up day allowed</i>					
		4 10s allowed M-Th with Friday makeup day because of bad weather					
	EN-324-SWO		12/10/2021				
	Oiler			\$53.42	\$67.61	\$81.80	H H D H H H D D Y
		<i>comment make up day allowed</i>					
		4 10s allowed M-Th with Friday makeup 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	H H D H H H D D Y
		<i>comment make up day allowed</i>					
		4 10s allowed M-Th with Friday makeup 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	H H D H H H D D Y
		<i>comment make up day allowed</i>					
		4 10s allowed M-Th with Friday makeup day because of bad weather					

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Name	Description					
<b>Operating Engineer Underground</b>						
EN-324A1-UC1		12/12/2023				
Class I Equipment			\$66.39	\$84.19	\$101.98	X X X X X X D Y
	<b>Apprentice Rates:</b>					
	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	
<hr/>						
EN-324A2-UC1		8/7/2023				
Class I Equipment - Backfiller Tamper, Backhoe, Batch Plant Operator, Clamshell, Concrete Paver 2 drums or larger, Conveyor Loader Euclid type, Crane (crawler, truck type or pile driving), Dozer, Dragline, Elevating Grader, endloader, gradall, grader, hyd			\$65.17	\$82.61	\$100.05	X X X X X X D Y
	<b>Apprentice Rates:</b>					
	0-999 hours		\$49.19	\$61.74	\$74.29	
	1,000-1,999 hours		\$50.99	\$64.44	\$77.89	
	2,000-2,999 hours		\$52.78	\$67.12	\$81.47	
	3,000-3,999 hours		\$54.58	\$69.82	\$85.07	
	4,000-4,999 hours		\$56.37	\$72.51	\$88.65	
	5,000-5,999 hours		\$58.16	\$75.19	\$92.23	
<hr/>						
EN-324A2-UC2		8/7/2023				
Class II Equipment - Boom Truck, Crusher, Hoist, Pump 6 inch discharge or larger, side boom tractor, Tractor (pneu-tired other than backhoe or front end loader), Trencher 8 ft. digging capacity and smaller, Vac Truck			\$60.42	\$75.80	\$91.17	X X X X X X D Y
<hr/>						
EN-324A2-UC3		8/7/2023				
Class III Equipment - Air Compressors 600 cfm or larger, Air Compressors 2 or more less than 600 cfm, Boom Truck non-swinging non-powered type boom, Concrete Breaker self-propelled or truck mounted, Concrete paver 1 drum 1/2 yd. or larger, Elevator other			\$59.59	\$74.61	\$89.62	X X X X X X D Y

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Classification	Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
	EN-324A2-UC4		8/7/2023				
		Class IV Equipment - Boiler, Concrete Saw 40 hp or over, curing machine self propelled, end dumps, extend a boom forklift, farm tractor with attachment, finishing machine concrete, firemen, hydraulic pipe pushing machine, mulching equipment, oiler, pumps		\$58.93	\$73.66	\$88.38	X X X X X X X D Y

**Painter**

	PT-1803-P		1/7/2022				
		Painter 4 10 hour days allowed on consecutive days, Monday-Friday. Make up day allowed M-F for work missed due to holidays or inclement weather.		\$41.48	\$53.64	\$65.79	H H H H H H H D Y

**Apprentice Rates:**

1st year	\$29.33	\$35.41	\$41.49
2nd year	\$31.76	\$39.05	\$46.35
3rd year	\$35.40	\$44.51	\$53.63
4th year	\$39.05	\$49.99	\$60.93

*comment make up day allowed Monday or Friday*

**Pipe and Manhole Rehab**

	TM247		4/17/2015				
		General Laborer for rehab work or normal cleaning and cctv work-top man, scaffold man, CCTV assistant, jetter-vac assistant		\$28.20	\$38.20		H H H H H H H H N

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

	TM247-3		4/17/2015				
		CCTV Technician/Combo Unit Operator: unit driver and operator of cctv unit or combo unit in connection with normal cleaning and televising work		\$31.45	\$43.07		H H H H H H H H N

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

Official Request #: 480  
 Requestor: Bay City Public Schools  
 Project Description:  
 Project Number:  
 County: Bay 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 Commercial Prevailing Wage Rates for State Funded Projects**

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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

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

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

**Plasterer**

BR2-7-P		11/9/2021				
Plasterer			\$46.60	\$59.14	\$71.68	H H H H H H H D N

**Apprentice Rates:**

0-749 hours	\$37.82	\$45.97	\$54.12
750-1,499 hours	\$39.08	\$47.86	\$56.64
1,500-2,249 hours	\$40.33	\$49.74	\$59.14
2,250-2,999 hours	\$41.58	\$51.61	\$61.64
3,000-3,749 hours	\$42.84	\$53.50	\$64.16
3,750-4,499 hours	\$44.09	\$55.38	\$66.66
4,500 hours	\$46.60	\$59.14	\$71.68

CE514-P-S		12/3/2021				
Plasterer			\$46.28	\$61.67	\$77.06	H H H H H H H D N

**Apprentice Rates:**

1st Year	\$35.51	\$45.52	\$55.52
2nd Year	\$38.58	\$50.12	\$61.66
3rd Year	\$41.66	\$54.74	\$67.82

Official Request #: 480  
 Requestor: Bay City Public Schools  
 Project Description:  
 Project Number:  
 County: Bay County

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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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Classification	Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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**Plumber, Pipefitter, Welder**

PL-85-Z1			6/16/2016	\$53.23	\$69.28	\$85.33	H H H H H H D Y
<b>Apprentice Rates:</b>							
		1st 6 months		\$32.54	\$40.57	\$48.59	
		2nd 6 months		\$34.69	\$43.52	\$52.35	
		3rd 6 months		\$36.84	\$46.47	\$56.10	
		4th 6 months		\$38.99	\$49.42	\$59.85	
		5th 6 months		\$41.15	\$52.38	\$63.62	
		6th 6 months		\$43.31	\$55.35	\$67.39	
		7th 6 months		\$45.46	\$58.30	\$71.14	
		8th 6 months		\$47.61	\$61.25	\$74.89	
		9th & 10th 6 months		\$49.77	\$64.22	\$78.66	

*comment make up day allowed*  
4 tens allowed M-Th; Friday makeup day

**Roofer**

RO-149-MMA			1/19/2022	\$49.76	\$63.95	\$78.14	H H H H H H D Y
<b>Apprentice Rates:</b>							
		Apprentice 1		\$35.27	\$42.22	\$49.16	
		Apprentice 2		\$36.91	\$44.68	\$52.44	
		Apprentice 3		\$36.31	\$43.78	\$51.24	
		Apprentice 4		\$37.93	\$46.20	\$54.48	
		Apprentice 5		\$34.45	\$40.98	\$47.52	
		Apprentice 6		\$41.18	\$51.08	\$60.98	
		Apprentice 7		\$42.51	\$53.08	\$63.64	
		Apprentice 8		\$44.42	\$55.94	\$67.46	

*make up day allowed*

Official Request #: 480  
Requestor: Bay City Public Schools  
Project Description: !  
Project Number:  
County: Bay County

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

**Issue Date: 2/20/2024**

**Contract must be awarded by: 5/20/2024**

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

**Sewer Relining**

Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
SR-I		12/12/2023				
	Class I-Operator of audio visual CCTV system including remote in-ground cutter and other equipment used in conjunction with CCTV system.		\$52.84	\$69.23	\$85.62	H H H H H H D N
	<b>Apprentice Rates:</b>					
	0-6 months		\$41.58	\$54.66	\$67.74	
	6-12 months		\$45.31	\$60.26	\$75.20	

Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
SR-II		12/12/2023				
	Class II-Operator of hot water heaters and circulation system; water jetters; and vacuum and mechanical debris removal systems and those assisting.		\$50.80	\$68.49	\$86.18	H H H H H H D N

**Sheet Metal Worker**

Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
SHM-7-3		1/14/2022				
	Sheet Metal Worker 4 10s allowed as consecutive days, M-Th or T-F		\$55.78	\$70.79	\$85.80	H H D H H H D D Y
	<b>Apprentice Rates:</b>					
	1st year		\$23.74	\$31.25	\$38.75	
	2nd year		\$28.99	\$38.00	\$47.00	
	3rd year		\$34.26	\$44.77	\$55.27	
	4th year		\$39.53	\$51.54	\$63.55	

*make up day allowed*



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

Issue Date: 2/20/2024

Contract must be awarded by: 5/20/2024

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

**Sprinkler Fitter**

SP 669		11/16/2021				
Sprinkler Fitter			\$60.34	\$78.45	\$96.56	H H H H H H D Y

**Apprentice Rates:**

Class 1	\$24.57	\$32.72	\$40.87
Class 2	\$26.38	\$35.43	\$44.49
Class 3	\$39.14	\$49.10	\$59.06
Class 4	\$40.95	\$51.82	\$62.68
Class 5	\$43.01	\$54.78	\$66.55
Class 6	\$44.82	\$57.49	\$70.17
Class 7	\$46.63	\$60.21	\$73.79
Class 8	\$48.45	\$62.94	\$77.43
Class 9	\$50.26	\$65.65	\$81.05
Class 10	\$52.07	\$68.37	\$84.67

*make up day allowed*

**Tile, Terrazzo and Mosaic Finisher**

BR2-TF		12/3/2021				
Tile, Terrazzo and Mosaic Finisher			\$42.34	\$54.17	\$65.99	H H H H H H D N

**Apprentice Rates:**

1st Period	\$35.25	\$43.53	\$51.81
2nd Period	\$36.43	\$45.30	\$54.17
3rd Period	\$37.61	\$47.07	\$56.53
4th Period	\$38.79	\$48.84	\$58.89
5th Period	\$39.97	\$50.61	\$61.25
6th Period	\$41.16	\$52.39	\$63.63

**Tower Technician**

IBEW 876 & IBEW 17 - Roadway		12/14/2023				
			\$67.89	\$98.24	\$128.58	H H H H H H D Y

Official Request #: 480  
 Requestor: Bay City Public Schools  
 Project Description:  
 Project Number:  
 County: Bay County

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

Issue Date: 2/20/2024

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Classification Name Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
<b>Truck Driver</b>					
TM-RB2 of all trucks of 8 cubic yd capacity or over	1/12/2022	\$44.10	\$48.81		H H H H H H H H Y
TM-RB2A of all trucks of 8 cubic yard capacity or less (except dump trucks of 8 cubic yard capacity or over, tandem axle trucks, transit mix and semis, euclid type equipment, double bottoms and low boys)	6/7/2016	\$44.00	\$48.66		H H H H H H H H Y
TM-RB2B on euclid type equipment	6/7/2016	\$44.25	\$49.04		H H H H H H H H Y

**Truck Driver / Groundman (less than a yr)**

IBEW 876 & IBEW 17 - Teledata	12/14/2023	\$30.78	\$41.29	\$51.79	H H H X X X D Y
<b>Apprentice Rates:</b>					
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	

Official Request #: 480  
 Requestor: Bay City Public Schools  
 Project Description:  
 Project Number:  
 County: Bay County

**Official Rate Schedule**  
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**Official Commercial Prevailing Wage Rates for State Funded Projects**

**Issue Date: 2/20/2024**

**Contract must be awarded by: 5/20/2024**

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Classification	Name	Description	Last Updated	Straight Hourly	Time and a Half	Double Time	Overtime Provision
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**Truck Driver / Groundman (over 1 yr)**

IBEW 876 & IBEW 17 - Teledata	12/14/2023						
			\$37.40	\$50.84	\$64.27	H H H X X X X D Y	
<b>Apprentice Rates:</b>							
			\$35.61	\$49.90	\$64.18		
			\$33.06	\$46.07	\$59.08		
			\$30.53	\$42.27	\$54.02		
			\$27.99	\$38.47	\$48.94		
			\$25.45	\$34.66	\$43.86		
			\$22.91	\$30.85	\$38.78		

**TV Terminator - Tech II**

IBEW 876 & IBEW 17 - Teledata	12/14/2023						
			\$38.78	\$52.83	\$66.87	H H H X X X X D Y	
<b>Apprentice Rates:</b>							
			\$35.61	\$49.90	\$64.18		
			\$33.06	\$46.07	\$59.08		
			\$30.53	\$42.27	\$54.02		
			\$27.99	\$38.47	\$48.94		
			\$25.45	\$34.66	\$43.86		
			\$22.91	\$30.85	\$38.78		

Official Request #: 480  
 Requestor: Bay City Public Schools  
 Project Description:  
 Project Number:  
 County: Bay 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.



## WOLGAST CORPORATION

### PRE-BID MEETING

#### *Bay City Public Schools*

2024 Sinking Fund - Bid Pack 11 Eastern HS at Handy MS

PRE-BID MEETING AGENDA

Wednesday, February 14, 2024, at 3pm

#### 1. Introductions:

- a. **Owner Rep:** Stephen Bigelow- Bay City Public Schools– Superintendent
- b. **Construction Manager:** Dale Schwerin, Wolgast Corporation – Project Manager  
Kyle Shelby, Wolgast Corporation – Field Manager
- c. **Architect:** John Reis- WTA Architects– Architect

#### 2. Project Scope:

06 00 00 – General Trades  
09 65 00 – Flooring  
09 90 00 – Painting  
22 23 00 – Plumbing & HVAC Systems  
26 00 00 - Electrical

#### 3. Contractor Bid Proposals:

- a. Sealed bids for this project are due no later than: **Friday, February 23, 2024@ 1:30 PM**  
Proposals may be mailed or delivered in person to: **Stephen Bigelow, Superintendent**  
**Bay City Public Schools**  
**601 Blend Street**  
**Bay City MI 48706**

All bids will be opened and read aloud at approximately 1:31 PM at the Administration Office.

**Electronic Sealed bids may also be submitted using Building Connected see below link.**

<https://app.buildingconnected.com/login?retUrl=%2F>

If you want to listen in during the bidding process here is the link <https://8x8.vc/wolgast/lisa.donahue>

- b. The successful bidder will be “prime” contractor having a contract directly with the Bay City Public Schools.
- c. Familial Relationship Affidavit – Section 00306 of Spec Book.
- d. Iran Economic Sanctions Act – Section 00307 of Spec Book

#### 4. Addenda:

- a. The Architect will issue any and all addenda.
- b. Last day to submit addendum questions will be Friday, February 16, 2024.



#### 5. Milestone Schedule:

- a. Award of Contracts: It is the intention of Bay City Public Schools to award contracts on or about March 11, 2024.
- b. The start & completion dates for this project are tentatively set for:
  - Start Date: [See Milestone Schedule](#)
  - Completion Date: [See Milestone Schedule](#)
- a. The Construction Manager will provide a detailed project construction schedule to all contractors based on input received at the post bid interview.

#### 6. Bonds:

- a. A five percent (5%) bid security must accompany each bid. Personal or Company checks do not satisfy the bid bond requirement and may be grounds for disqualification of that bid.
- b. All bidders must have the ability to provide Performance Bonds and Labor and Material Payment Bonds. These bonds **may or may not** be requested by the Owner if the awarded proposal amount is less than \$50,000.00, but all bids **must include** the cost of the PLM bond regardless of bid amount. All awarded proposal amounts exceeding \$50,000.00 must be secured by both performance and payment bonds as required by State law.
- c. The Performance Bond and Labor and Material Payment Bond are to be submitted to the Construction Manager before construction begins.

#### 7. Inquiries:

- a. All questions regarding the design, the drawings and the specifications are to be faxed or emailed to: Wolgast Corporation, Attn: Dale Schwerin, Project Manager, Fax #: 989-790-9063 or email: [dschwerin@wolgast.com](mailto:dschwerin@wolgast.com) also copy Lisa Donahue at [ldonahue@wolgast.com](mailto:ldonahue@wolgast.com) in the form of a Clarification Request Form. This will be forwarded to the architect for clarification. The Construction Manager **will make no** interpretations of the construction documents.
- b. All questions regarding the bidding procedures (what to bid, how to fill out the proposal form, construction schedules, etc) are to be directed to Wolgast Corporation, Attn: Dale Schwerin, Project Manager, Office #: 989-790-9120, Fax# 989-790-9063 or email: [dschwerin@wolgast.com](mailto:dschwerin@wolgast.com) and copy Lisa Donahue at [ldonahue@wolgast.com](mailto:ldonahue@wolgast.com) .

#### 8. Post Bid Procedures:

- a. Post-Bid interviews will be conducted with the low bidder and in some cases the second low bidder. The interviews will be conducted by the Construction Manager and the Architect. The Owner may elect to be present at the interviews.
- b. The apparent low bidders will be notified the day after the bid of their scheduled interview time.
- c. Bid results will be made available from the Construction Manager.

#### 9. Questions:

**END OF PRE-BID MEETING AGENDA**

**Bay City Public Schools**  
2024 Sinking Fund Bid Pack 11 Eastern HS at Handy MS

**Pre - Bid Sign In**  
Wednesday, February 14, 2024  
3:00 pm, Blend Street Entrance  
Wolgast Corporation / WTA Architects

Company (Printed)	Name (Printed)	Phone/Cell	Email
Bay Valley Electric	Beth Cripps (* Cong)	989-573-4325	contact@bayvalleyelectric.org
Bay Area Flooring	Greg Reiss	989-3976654	russis@sportfl-1
AC KLOPF	Jason Swincicki	989-754-0403	jswincicki@acklopf.com
JF Johnson	Eric Barnes	989-205-6080	ebarnes@jefjohnson.com
Ellie Franklin	Valley Carpet	989-644-6065	ellief@valleycarpetinc.com
Paul Monse	MIKES		
MIRE'S CUSTOM TILE	ROS DAVIS		
WTA John Reiss		989 295 8986	john=jreiss@wtacund.com



## WTA ARCHITECTS

100 S. Jefferson Ave, Suite 601

Saginaw, Michigan, 48607

988.752.8107 : p

989.573.0855 : f

[WTAARCH.COM](http://WTAARCH.COM)

FEBRUARY 19, 2024

### ADDENDUM NO. 1

BAY CITY PUBLIC SCHOOLS - 2018 SINKING FUND  
RENOTVATION FOR BAY CITY EASTERN H.S. AT HANDY  
BAY CITY, MICHIGAN

Project No. 2018040.16

The following clarifications, modifications and/or revisions to the above project shall be considered a part of the original drawings and specifications.

It shall be the responsibility of the contractor to notify their subcontractors and/or suppliers of the clarifications, modifications, and/or revisions included herein.

### ARCHITECTURAL

- Item A1: Reference Section 000115, Sheet TS, & A0.01 (Not Re-Issued)
- A. Clarification: Sheet A0.01 title to be "PROJECT INFORMATION AND WALL TYPES".
- Item A2: Reference Section 081700 (Re-Issued)
- A. Revised to include door hardware sets.
- Item A3: Reference Section 093013 & Sheet A2.21 (Re-Issued)
- A. Added aluminum tapered transition at toilet room doors per Alternates 3 & 4.
- Item A4: Reference Section 012300 & Sheet TS (Re-Issued)
- B. Alternate No. 3 revised to include flooring scope.
  - C. Alternate No. 4 revised to include removing the structural glazed tile shelves and flooring scope.
- Item A5: Reference Sheet TS (Re-Issued)
- A. Revised the schedule of alternates number to indicate the last alternate as no. 4 in lieu of (2) no. 3 alternates on sheet TS.
- Item A6: Reference Sheet A2.11 & A2.12 (Re-Issued)
- A. Revised demo keynote #22 to remove lockers per Alternate No. 2 in lieu of to be relocated.
  - B. Revised demo keynote #27 to grind off adhesive.
  - C. Revised demo keynote #30 to remove mud bed down to concrete slab or substrate.
  - D. Added demo keynote #36 to remove existing structural glazed tile shelves in the toilet rooms.
  - E. Added demo keynote #37 to remove existing VCT flooring and base in existing classrooms (G101, G102, G109), Science

WIGEN  
TINCKNELL  
ASSOCIATES  
ARCHITECTS

SPACE SOLVED.



Prep (G121), Storage (G122) and a portion of Corridor (F122).

- F. Added demo keynote #38 to sawcut and remove existing terrazzo in Corridor G103 & G108.
- G. Added demo keynote #39 to strip and prep existing terrazzo for new VCT.

Item A7: Reference Sheet A2.11, A2.21, A2.22, A3.01 (Re-Issued)

- A. Existing drinking fountain in Corridor F105 to be removed and replaced with new in lieu of demolished only. Delete work to patch and repair wall.
- B. New high/low drinking fountain location relocated to the north wall of Commons G109 in lieu of Corridor F105. Delete work to demolish existing lockers, patch and repair masonry and gyp. bd. walls and soffit. Refer to mech and re-issued sheets.

Item A8: Reference Sheet A2.21 (Re-Issued)

- A. Deleted transition strip at door G139.1.
- B. Revised keynote #21 to patch and repair existing wall after removal of wall mounted dispenser in lieu of "<varies>".
- C. Added keynote #26 to add tapered aluminum transition strips to toilet room doors.
- D. Added keynote #27 for grommets in Recept. (G129B).

Item A9: Reference Sheet A2.22 (Re-Issued)

- A. Clarification: existing corridor width is 10'-0".
- B. Added keynote #28 to patch and repair concrete after station removal and cap existing plumbing.

Item A10: Reference Sheet A3.01, A3.02 (Re-Issued)

- A. Added a hatch pattern to clarify floor material locations.

### **MECHANICAL**

Item M1: Reference Sheets M1.01 (Re-Issued)

- A. See keyed note change referring to removing the existing Electric Water Cooler. The existing piping shall remain for new Electric Water Cooler connection.

Item M2: Reference Sheets M1.02 (Re-Issued)

- A. See additional keyed note referring to existing piping to be revised for new Electric Water Cooler connection.

Item M3: Reference Sheets M2.01 (Re-Issued)

- A. See keyed note change referring to the installation of the new Electric Water Coolers.





B. Electric Water Cooler shall be moved from outside the Mens F108 to Commons G109.

C. New single Electric Water Cooler shall be installed outside J.C. F109.

Item M4: Reference Sheet M2.02 (Re-Issued)

A. See additional keyed note referring to installation of new Electric Water Cooler.

Item M5: Reference Sheet M4.01 (Re-Issued)

A. See addition of EWC-2 on Plumbing Fixture Schedule.

#### ELECTRICAL

Item E1: Reference Sheet E2.03 (Re-Issued)

A. See receptacle location change.

Item E2: Reference Sheet E2.04 (Re-Issued)

A. See new receptacles for Electric Water Cooler.

Item E3: Reference Sheet E3.02 (Re-Issued)

A. See changes to panel schedules for the changes shown in this addendum.

END OF ADDENDUM NO. 1

Cariann Davitt Schartow

**WTA** ARCHITECTS

CDS:krm

Cc: All Plan Holders

SECTION 012300 - ALTERNATES

1.1 SCHEDULE OF ALTERNATES

**A. Alternate No. 1**

1. Base Bid: Existing Red lockers to remain.
2. Alternate: Existing Red lockers to be prepped and painted.

**B. Alternate No. 2**

1. Base Bid: Existing Red lockers to remain.
2. Alternate: Existing Red lockers to removed and replaced with new metal lockers.

**C. Alternate No. 3**

1. Base Bid: Existing Mens and Womens toilet rooms to remain as-is.
2. Alternate: Existing Mens and Womens toilet rooms to be remodeled as shown on Drawings. For walls - SGFT walls to be patched with similar SGFT (color not matching) at plumbing locations, prepped and epoxy painted. *For Floors - cut and patch existing and provide new thinset ceramic tile and base over top of terrazzo.*

**D. Alternate No. 4**

1. Base Bid: Existing Mens and Women's toilet rooms to remain as-is.
1. Alternate: Existing Mens and Womens toilet rooms to be remodeled as shown on Drawings. For walls - Grind off terrazzo cove *and SGFT Shelves*, and provide new ceramic wall tile on ½" tile backer board mechanically fastened to wall. At Urinal wall, include metal furring. *For Floors - cut and patch existing and provide new thinset ceramic tile and base over top of terrazzo.*

END OF SECTION 012300

SECTION 8710 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Refer to "General and Special Conditions", and "Instructions to Bidders", Division 1 of Specifications. Requirements of these Sections and the project drawings shall govern work in this section.

1.2 SUMMARY

- A. Furnish all items of Door Hardware specified, scheduled, shown or required herein except those items specifically excluded from this section of the specification.
- B. Related Sections include the following:
  - 1. Division 6 - Section "Rough Carpentry"
  - 2. Division 6 - Section "Interior Architectural Woodwork: Installation of Finish Hardware"
  - 3. Division 7 - Section "Joint Sealants"
  - 4. Division 8 - Section "Steel Doors and Frames"
  - 5. Division 8 - Section "Flush Wood Doors"
  - 6. Division 8 - Section "Aluminum-Framed Entrances and Storefronts"
  - 7. Division 16 -Section "Smoke Detection Systems"
  - 8. Section 16000 - Electrical rough-in, conduit junction boxes, wiring, primary power and final hook-up of all finish hardware components requiring electrical connections.
- C. Specific Omissions: Hardware for the following is specified or indicated elsewhere, unless specifically listed in the hardware sets:
  - 1. Windows
  - 2. Cabinets of all kinds, including open wall shelving and locks.
  - 3. Toilet accessories of all kinds including grab bars.
  - 4. Operable panel partitions, except cylinders where detailed.
  - 5. Corner guards
  - 6. Access doors and panels
  - 7. Overhead coiling doors

1.3 QUALITY ASSURANCE

- A. Requirements of Regulatory Agencies:
  - 1. Furnish finish hardware to comply with the requirements of laws, codes, ordinances, and regulations of the governmental authorities having jurisdiction where such requirements exceed the requirements of the Specifications.
  - 2. Furnish finish hardware to comply with the requirements of the regulations for public building accommodations for physically handicapped persons of the governmental authority having jurisdiction and to comply with Americans with Disabilities Act.
  - 3. Provide hardware for fire-rated openings in compliance with NFPA 80 and state and local building code requirements. Provide only hardware that has been tested and listed by UL for types and sizes of doors required and complies with requirements of door and door frame labels.
  - 4. Where emergency exit devices are required on fire-rated doors that carry supplementary marking on the doors UL labels indicating "Fire Door to be

equipped with Fire Exit Hardware" provide UL label on exit devices indicating "Fire Exit Hardware".

- B. Hardware Supplier:
  - 1. Shall be an established firm dealing in contract builders' hardware. He must have adequate inventory, qualified personnel on staff and be located within 100 miles of the project. Only domestic manufacturers are acceptable and the distributor must be a **factory-authorized** dealer for all materials required. The supplier shall be or have in employment an Architectural Hardware Consultant. (AHC).
  
- C. Electrified Door Hardware Supplier:
  - 1. Shall be an experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design, and extent to that indicated for this project, whose work has resulted in construction with a record of successful in-service performance, and who is acceptable to manufacturer of primary materials.
  - 2. Shall prepare data for electrified door hardware, including shop drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this project.
  - 3. Shall have experience in providing consulting services for electrified door hardware installations.
  
- D. Pre-construction Meeting:
  - 1. Prior to development of the Hardware Schedule, a Finish Hardware Meeting will be held at the Architect's office. The Construction Manager and the Hardware Supplier's personnel, directly responsible for preparing the Hardware Schedule, shall meet with the Architect and the Architect's Hardware Consultant. The purpose of the meeting is to review the contract documents' hardware schedule requirements and will include, but not be limited to the following:
    - a. Review specification requirements for hardware schedule, formats, hardware locations, opening descriptions, and other information specified.
    - b. Review products specified versus products proposed.
    - c. Hardware Supplier shall distribute, at the meeting, samples of schedules from other projects of similar nature prepared by the same person as will prepare schedule for this project.
  
- E. Pre-installation Meeting:
  - 1. Before hardware installation, Construction Manager shall request a hardware installation seminar be conducted on the installation of hardware; specifically that of locksets, closers, exit devices, overhead stops and coordinators. Manufacturer's representatives of the above products, in conjunction with the hardware supplier for the project, shall present the seminar. Seminar will be held at job site and attended by installers of hardware for aluminum, hollow metal and wood doors. Seminar to address proper coordination and installation of hardware, per finish hardware schedule for this specific project, by using installation manuals, hardware schedule, templates, physical product samples and installation video's.
  - 2. When any electrical or pneumatic hardware is specified this meeting shall also include the following trades/installers: Electrical, Security, Alarm systems and Architect.
  - 3. Convene one week prior to commencing work of this Section
  - 4. The Hardware Supplier shall include the cost of this seminar in his proposal.
  
- F. Manufacturer:

1. Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.
2. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.

1.4 SUBMITTALS

A. Hardware Schedule

1. Submit proper number of Hardware Schedules to allow the Architect to retain two copies for his use, plus the number of copies required by the Contractor for his distribution and use. In any event, do not submit more than six copies.
2. Include the following:
  - a. Preface sheet listing category only and manufacturer's names of items being furnished as follows:

CATEGORY	SPECIFIED	SCHEDULED
Hinges	Manufacturer A	Manufacturer B
Lock sets	Manufacturer X	Manufacturer X
Kick Plates	Open	Manufacturer Z

3. Hardware Locations: Refer to Article 3.1 B2 Locations.
4. Opening Description: Single or pair, number, room locations, hand, active leaf, degree of swing, size, door material, frame material, and UL listing.
5. Hardware Description: Quantity, category, product number, fasteners, and finish.
6. Headings that refer to the specified Hardware Set Numbers.
7. Scheduling Sequence shown in Hardware Sets.
8. Product data of each hardware item, and shop drawings where required, for special conditions and specialty hardware.
9. Electrified hardware system operation description.
10. **"Vertical" scheduling format only. "Horizontal" schedules will be returned "Not Approved."**
11. Typed Copy.
12. Double-Spacing.
13. 8-1/2 x 11 inch sheets
14. U.S. Standard Finish symbols or BHMA Finish symbols.

B. Product Data:

1. Submit, in booklet form using supplier's schedule covers as binders. Product data of items of hardware listed in supplier's schedule.
2. Submit product data concurrently with hardware schedule.

C. Inspection Report:

1. Submit inspection report specified in 3.1.C2 for locksets, exit devices, ADA special closers, door closers and all electrical hardware.

D. Samples:

1. Prior to submittal of the final hardware schedule and prior to final ordering of finish hardware, submit one sample, if required, of each type of exposed hardware unit, finished as required and tagged with full description for coordination with schedule.
2. Samples will be returned to the supplier. Units, which are acceptable and remain undamaged through submittal, review and field comparison procedures may, after

final check of operation, be used in the work, within limitations of keying coordination requirements.

**E. Elevation and Wiring Drawings:**

1. **Submit elevation drawing showing relationship of all electrical and pneumatic hardware components to door and frame. Indicate number and gage of wires required.**
2. **Submit wiring drawing showing point to point wire hook up for all components.**
3. **Submit system operations descriptions for each type of opening; describe each possible condition.**

- F. Submit to Construction Manager, two copies each of parts and service manuals and two each of any special installation or adjustment tools. Include for locksets, exit devices, door closers and any electrical products.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Label each item of hardware with the appropriate door number and Hardware Schedule heading number, and deliver to the installer so designated by the contractor.

1.6 WARRANTY

- A. Mortise locksets shall carry manufacturer's 3-year warranty against manufacturing defects and workmanship.
- B. Closers shall carry manufacturer's 30-year warranty against manufacturing defects and workmanship.
- C. Exit devices shall carry manufacturer's 3-year warranty against manufacturing defects and workmanship.
- D. Continuous gear hinges shall carry manufacturer's Lifetime warrantee to be free from defects in material and workmanship.
- E. Balance of items shall carry a manufacturer's 1-year warranty against manufacturing defects and workmanship.
- F. During the warranty period, replace defective work, including labor, materials and other costs incidental to the work. Inspect the work within 24 hours after receipt of notice from the Owner. Replace work found to be defective as defined in the Contract Documents.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Furnish each category with the products of only one manufacturer unless specified otherwise; this requirement is mandatory whether various manufacturers are listed or not.

2.2 PRODUCTS

- A. Provide the products of manufacturer designated or if more than one manufacturer is listed, the comparable product of one of the other manufacturers listed. Where only one manufacturer or product is listed, "no substitution" is implied.

B. Hinges

1. Furnish hinges of cuts and size as listed in Hardware Sets.

2. **Where hinges are specified at openings with “existing frames”, provide size and weight to match existing preparations, regardless of the hinge specified in the Hardware Set.**
3. Numbers used are Ives. Equal products of Hager and McKinney are acceptable.

C. Continuous Gear Hinge:

1. 6063-T6 aluminum alloy, anodized finish (cap on entire hinge painted if specified). Manufacture to template, uncut hinges non-handed, pinless assembly, three interlocking extrusions, full height of door and frame, fasteners 410 stainless steel plated and hardened. Anodizing of material shall be done after fabrication of components so that all bearing slots are anodized.
2. Length: 1" less than door opening height. Fastener 12-24 x 1/2" #3 Phillips keen form stainless steel self-tapping at aluminum and hollow metal doors, 12- 1/2" #3 Philips, flathead full thread at wood doors.
3. Numbers used are Ives. Equal products of Select are acceptable.
  - a. For Aluminum and FRP frames;  
1.Ives                    112XY
  - b. For Hollow Metal frames;  
1.Ives                    224XY

D. LOCKSETS AND LATCHSETS - MORTISE TYPE

1. Locksets shall be manufactured from heavy gauge steel, minimum lockcase thickness 1/8", containing components of steel with a zinc dichromate plating for corrosion resistance.
2. Locks are to have a standard 2 3/4" backset with a full 3/4" throw two-piece stainless steel mechanical anti-friction latchbolt. Deadbolt shall be a full 1" throw, constructed of stainless steel.
3. Lockcase shall be easily handed without chassis disassembly by removing handing screw on lockcase and installing in opposite location on reverse side. Changing of door hand bevel from standard to reverse hand shall be done by removing the lockcase scalp plate, and pulling and rotating the latchbolt 180 degrees.
4. Lock trim shall be through-bolted to the door to assure correct alignment and proper operation. Lever trim shall have external spring cage mechanism to assist in support of the lever weight.
5. Function numbers are Schlage.
  - a. Schlage                    L9000
6. Trim:
  - a. Schlage                    O3N
7. Provide strikes with extended lips where required to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond door frame trim at single doors and have 7/8" lip to center at pairs of 1-3/4" doors. Provide wrought box strikes on all locks and latches.

E. EXIT DEVICES

1. Exit devices shall be touchpad style, fabricated of brass, bronze, stainless steel, or aluminum, plated to the standard architectural finishes to match the balance of the door hardware.
2. All exit devices shall incorporate a fluid damper, which decelerates the touchpad on its return stroke and eliminates noise associated with exit device operation. Touchpad shall extend a minimum of one half of the door width. All latchbolts to

be deadlatching type, with a self-lubricating coating to reduce wear. End-cap will have two-point attachment to the mounting bracket.. Touchpad shall match exit device finish, and shall be stainless steel for US26, US26D, US28, US32, and US32D finishes. Only compression springs will be used in devices, latches, and outside trims or controls.

3. Strikes shall be roller type and come complete with a locking plate to prevent movement.

4. All exit devices shall have passed a 1 million (1,000,000) cycle test based on ANSI A156.3, 1994, Grade 1 test standards and certified by an independent testing lab.

5. Plastic templates shall be included with each exit device to facilitate a quick, easy and accurate installation.

6. All mortise exit devices shall have passed a 10 million (10,000,000) cycle test based on ANSI A156.3, 1944, Grade 1 test standards and certified by an independent testing lab.

7. Provide cylinder dogging on panic exit hardware where noted in hardware sets.

8. Exit devices shall be UL listed panic exit hardware. All exit devices for fire rated openings shall be UL labeled fire exit hardware.

9. Lever trim for exit devices shall be vandal-resistant type, which will travel to a 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set.

10. Function numbers are Von Duprin.

a. Von Duprin 98 and 35A Series.

11. Trim:

a. As specified in sets.

b. Levers to match lockset design where specified.

#### F. REMOVABLE MULLIONS

1. Interior/Exterior - mullion is removable only through the use of building keys.

a. Von Duprin KR4954

2. Interior Doors - UL listed, Mullion is removable only through the use of building keys.

a. Von Duprin KR9954

#### G. CLOSERS

1. Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder. Cylinder body shall be 1 1/2" in diameter, and double heat treated pinion shall be 11/16" in diameter with double D slab drive arm connection.

2. Hydraulic fluid shall be of a type requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.

3. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed, and backcheck.

4. All closers shall have solid forged steel main arms (and forged forearms for parallel arm closers).

5. All surface mounted mechanical closers shall be certified to exceed ten million (10,000,000) full load cycles by a recognized independent testing laboratory.

6. Powder coating finish to be certified to exceed 100 hours salt spray testing by ETL, an independent testing laboratory used by BHMA for ANSI certification.



7. Refer to door and frame details and furnish accessories such as drop plates, panel adapters, spacers and supports as required to correctly install door closers. State degree of door swing in the hardware schedule.

- a. LCN Series as listed in sets.

H. OVERHEAD HOLDERS and STOPS

1. Type, function and fasteners must be same as Glynn-Johnson specified. Size per manufacturer's selector chart. Plastic end caps, hold open mechanisms and shock blocks are not allowed. End caps must be finished same as balance of unit.
2. Manufacture products using base material of Brass/Bronze for US3, US4, & US10B finished products and 300 Stainless Steel for US32 & US32D finished products.
3. Type, function, and fasteners must be the same as Glynn-Johnson specified. Size per manufacturer's selector chart.
  - a. Glynn-Johnson

I. KICK PLATES

1. Furnish .050 inches thick 10" high x door width less 2" at single doors and less 1" at pairs. Where glass or louvers prevent this height, supply with height equal to height of bottom rail less
2. Kickplates shall be drilled and counter sunk for oval head, counter sunk screws. Pan head not acceptable.
3. Any BHMA manufacturing product meeting above is acceptable.

J. WALL STOPS

1. Length to exceed projection of all other hardware. Provide with threaded studs and expansion shields for masonry wall construction. **Install with slope at top.**
  - a. Ives WS33
  - b. BHMA L12011 or L12021

K. DOOR HOLDING MAGNETS

1. Electrically controlled, fail-safe, holds door open until current is interrupted.
2. Furnish model to hold door away from wall to allow for any trim or levers on pull side of door.
  - a. LCN SEM 7800 series

L. THRESHOLDS

1. 1/2-inch high - 5-inch wide. Cope at jambs.
2. Furnish full wall opening width when frames are recessed.
3. Cope in front of mullions if thresholds project beyond door faces.
4. Furnish with non-ferrous Stainless Steel Screws and Lead Anchors.
  - a. Zero as listed in sets
  - b. Equal by NGP, Reese or Pemko

M. DOOR SWEEPS

1. Surface Sweeps:

- a. Zero as listed in sets
- b. Equal by NGP, Reese or Pemko

N. SOUND SEAL

- 1. Adjustable type perimeter seal.
  - a. Zero as listed in sets
  - b. Equal by NGP, Reese or Pemko

O. AUTOMATIC DOOR BOTTOMS

- 1. Surface: Provide UL approved at all fire doors.
  - a. Zero as listed in sets
  - b. Equal by NGP, Reese or Pemko

P. MISCELLANEOUS

- 1. Furnish items not categorized in the above descriptions but specified by manufacturer's names in Hardware Sets.

Q. FASTENERS

- 1. Furnish fasteners of the proper type, size, quantity and finish. Use machine screws and expansion shields for attaching hardware to concrete or masonry, and wall grip inserts at hollow wall construction.. Furnish machine screws for attachment to reinforced hollow metal doors and frames and reinforced aluminum doors and frames. Furnish full thread wood screws for attachment to solid wood doors and frames. "TEK" type screws are not acceptable.
- 2. **Sex bolts will not be permitted on reinforced metal doors or wood doors where blocking is specified.**

2.3 FINISHES

- A. Generally, Dull Chrome, US26D / BHMA 626. Provide finish for each item as indicated in sets.

2.4 TEMPLATES AND HARDWARE LOCATION

- A. Furnish hardware made to template. Supply required templates and hardware locations to the door and frame manufacturers.
- B. Furnish metal template to frame/door supplier for continuous hinge.
- C. Refer to Article 3.1 B2, Locations, and coordinate with templates.

2.5 CYLINDERS KEY CONTROL AND KEYING

- A. All cylinders for this project will be supplied by one supplier regardless of door type and location.
- B. All cylinders will be Schlage and will accept small format interchangeable cores.
- C. Final cores will be provided and installed by the Owner or the Owner's Representative.
- D. Provide disposable or keyed construction cores for use during construction period as specified in sets.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General:

1. Install hardware according to manufacturers installations and to manufacturers template dimensions. Attach all items of finish hardware to doors, frames, walls, etc. with fasteners furnished and required by the manufacture of the item.
2. Provide blocking/reinforcement for all wall mounted hardware.
3. Reinforced hollow metal doors and frames and reinforced aluminum door and frames: drilled and tapped machine screws.
4. Solid wood doors and frames: full thread wood screws. Drill pilot holes before inserting screws.
5. Continuous gear hinges attached to hollow metal doors and frames and aluminum doors and frames: 12-24 x 1/2" #3 Phillips Keenform self-tapping. Use #13 or 3/16 drill for pilot.
6. Continuous Gear Hinges require continuous mortar guards of foam or cardboard 1/2" thick x frame height, applied with construction adhesive.
7. Install weather-strip gasket prior to parallel arm closer bracket, rim exit device or any stop mounted hardware. Gasket to provide a continuous seal around perimeter of door opening. Allow for gasket when installing finish hardware. Door closers will require special templating. Exit devices will require adjustment in backset.

B. Locations:

1. Dimensions are from finish floor to center line of items.
2. Include this list in Hardware Schedule.

CATEGORY

DIMENSION

Hinges	Door Manufacturer's Standard
Levers	Door Manufacturer's Standard
Exit Device Touchbar	Per Template
Wall Stops & Holders	At Head

C. Final Adjustment:

1. Provide the services of a representative to inspect material furnished and its installation and adjustment, to make final hardware adjustment, and to instruct the Owner's personnel in adjustment, care and maintenance of hardware.
2. Locksets, closers and exit devices shall be inspected by the factory representative and adjusted after installation and after the HVAC system is in operation, to insure correct installation and proper adjustment in operation. The manufacturer's representative shall prepare a written report stating compliance, and also recording locations and kinds of noncompliance. The original report shall be forwarded to the Architect with copies to the Contractor, hardware distributor, hardware installer and building owner.

D. Technical and Warranty Information

1. At the completion of the project, the technical and warranty information coalesced and kept on file by the General Contractor/Construction Manager shall be given to the Owner or Owner's Agent. In addition to both the technical and warranty information, all factory order acknowledgement numbers supplied to the General Contractor/Construction Manager during the construction period shall be given to the Owner or Owner's Agent. The warranty information and factory order acknowledgement numbers shall serve to both expedite and properly execute any warranty work that may be required on the various hardware items supplied on the project.

2. Submit to General Contractor/Construction Manager, two copies each of parts and service manuals and two each of any special installation or adjustment tools. Include for locksets, exit devices, door closers and any electrical products.

**Hardware Group No. 01**

G103.1

**EACH TO HAVE:**

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	224XY	☰	628	IVE
1	EA	REMOVABLE MULLION	KR4854B STAB	☰	689	VON
1	EA	DUMMY TRIM	AD-993LLL-TLR-B 12/24 VDC	☰	626	SCE
2	EA	PANIC HARDWARE	CDSI-98-EO	☰	626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MTK-TLR-B 4AA BATTERY	☰ ⚡	626	SCE
3	EA	SFIC MORTISE CYL.	80-110	☰	626	SCH
5	EA	SFIC EVEREST CORE	80-037	☰	626	SCH
2	EA	SURFACE CLOSER	4111 EDA MC	☰	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	☰	630	IVE
2	EA	WALL STOP	WS33	☰	626	IVE
1	EA	GASKETING	488SBK PSA	☰	BK	ZER
1	EA	MULLION SEAL	8780NBK PSA	☰	BK	ZER
1	EA	PIM	PIM400-485-RSI	☰ ⚡		SCE

PRESENTING AN AUTHORIZED CREDENTIAL WILL UNLOCK THE OUTSIDE LEVER AND ALLOW ACCESS. FREE EGRESS IS ALWAYS ALLOWED.  
 COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

**Hardware Group No. 02**

G129A.1

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	STOREROOM LOCK	L9080BDC 03N		626	SCH
1	EA	SFIC EVEREST CORE	80-037		626	SCH
1	EA	ELECTRIC STRIKE	6400 FSE 12/24 VAC/VDC		630	VON
1	EA	SURF. AUTO OPERATOR	4642 WMS 120 VAC		689	LCN
2	EA	ACTUATOR	8310-853T		630	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS33		626	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER
1	EA	MULTITECH READER	MTB11 5VDC - 28VDC		BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC			VON

PRESENTING AN AUTHORIZED CREDENTIAL WILL ENERGIZE THE ELECTRIC STRIKE AND ENABLE THE OUTSIDE AUTOMATIC OPERATOR ACTUATOR TO ALLOW ACCESS. THE INSIDE AUTOMATIC OPERATOR ACTUATOR IS ALWAYS ENABLED. ACCESS MAY ALSO BE GRANTED THROUGH THE INTERCOM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED. COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES,

**Hardware Group No. 03**

G129A.2

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	CLASSROOM LOCK	L9070BDC 03N		626	SCH
1	EA	SFIC MORTISE CYL.	80-110		626	SCH
2	EA	SFIC EVEREST CORE	80-037		626	SCH
1	EA	ELECTRIC STRIKE	6400 FSE 12/24 VAC/VDC		630	VON
1	EA	SURF. AUTO OPERATOR	4642 WMS 120 VAC		689	LCN
2	EA	ACTUATOR	8310-853T		630	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS33		626	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER
1	EA	KEY SWITCH	653-04 L2		630	SCE

THE OUTSIDE AUTOMATIC OPERATOR ACTUATOR IS ENABLED/DISABLED THROUGH THE KEY SWITCH. THE INSIDE AUTOMATIC OPERATOR ACTUATOR IS ALWAYS ENABLED. FREE EGRESS IS ALWAYS ALLOWED. COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES,

**Hardware Group No. 04**

F107.1 F108.1

**EACH TO HAVE:**

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP		630	IVE
1	EA	STOREROOM LOCK	L9080BDC LLL 03A L283-150		626	SCH
1	EA	SFIC EVEREST CORE	80-037		626	SCH
1	EA	GASKETING	488SBK PSA		BK	ZER

**Hardware Group No. 05**

G130.1 G131.1 G132.1 G133.1 G134.1 G135.1

**EACH TO HAVE:**

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	OFFICE/ENTRY LOCK W/ INSIDE INDICATOR	L9050BDC 03N 09-544 IS-LOC		626	SCH
1	EA	SFIC EVEREST CORE	80-037		626	SCH
1	EA	WALL STOP	WS447		626	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

**Hardware Group No. 06**

G139.1

**EACH TO HAVE:**

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	224XY		628	IVE
2	EA	FIRE EXIT HARDWARE	9849-EO-F-LBL		626	VON
2	EA	SURFACE CLOSER	4111 EDA MC		689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
2	EA	WALL MAG HOLDER	SEM7850 12V/24V/120V		689	LCN

DOORS MAY BE HELD OPEN ELECTRONICALLY. UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM, THE DOORS WILL CLOSE AND POSITIVELY LATCH. COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

**Hardware Group No. 07**

G107.1

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY	☐	628	IVE
1	EA	PANIC HARDWARE	CDSI-98-EO	☐	626	VON
1	EA	ELEC EXIT DEVICE TRIM	AD-400-993R-70-MTK-TLR-B	☐	626	SCE
		4AA BATTERY				
1	EA	SFIC MORTISE CYL.	80-110	☐	626	SCH
2	EA	SFIC EVEREST CORE	80-037	☐	626	SCH
1	EA	SURFACE CLOSER	4111 EDA MC	☐	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	☐	630	IVE
1	EA	WALL STOP	WS33	☐	626	IVE
1	EA	GASKETING	488SBK PSA	☐	BK	ZER
1	EA	PIM	PIM400-485-RSI	☐		SCE

PRESENTING AN AUTHORIZED CREDENTIAL WILL UNLOCK THE OUTSIDE LEVER AND ALLOW ACCESS. FREE EGRESS IS ALWAYS ALLOWED.  
 COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

**Hardware Group No. 08**

F112.1

EACH TO HAVE:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY	☐	628	IVE
1	EA	CONT. HINGE	224XY TWP CON	☐	628	IVE
1	EA	PANIC HARDWARE	9849-EO-LBL	☐	626	VON
1	EA	ELEC PANIC HARDWARE	RX-9849-EO-ALK-LBL	☐	626	VON
1	EA	SFIC MORTISE CYL.	80-110	☐	626	SCH
1	EA	SURFACE CLOSER	4111 CUSH MC ST-3220	☐	689	LCN
1	EA	SURFACE CLOSER	4111 EDA MC	☐	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	☐	630	IVE
1	EA	WALL STOP	WS33	☐	626	IVE
1	EA	MULTITECH READER	MTB11 5VDC - 28VDC	☐	BLK	SCE
1	EA	POWER SUPPLY	PS902 900-2RS-FA 120/240	☐		VON
			VAC			

UNAUTHORIZED EGRESS WILL SOUND LOCAL ALARM. ALARM MAY BE ENABLED/DISABLED/RE-SET WITH ONBOARD KEY CYLINDER. PRESENTING AN AUTHORIZED CREDENTIAL WILL SHUNT LOCAL ALARM AND ALLOW PASSAGE THROUGH THE OPENING. THE LOCAL ALARM WILL BE BYPASSED UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM. FREE EGRESS IS ALWAYS ALLOWED.  
 COORDINATE SYSTEM OPERATION AND COMPONENT LOCATIONS WITH THE OWNER, THE ARCHITECT AND ALL RELATED TRADES.

END OF SECTION

SECTION 093013 - CERAMIC TILING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
  - 1. Porcelain tile.
  - 2. Mortar
  - 3. Grout
  - 4. Primer
  - 5. Metal edge strips.
- B. Related Requirements:
  - 1. Section 079200 "Joint Sealants" for sealing of expansion, contraction, control, and isolation joints in tile surfaces.

1.3 DEFINITIONS

- A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.
- B. ANSI A108 Series: ANSI A108.01, ANSI A108.02, ANSI A108.1A, ANSI A108.1B, ANSI A108.1C, ANSI A108.4, ANSI A108.5, ANSI A108.6, ANSI A108.8, ANSI A108.9, ANSI A108.10, ANSI A108.11, ANSI A108.12, ANSI A108.13, ANSI A108.14, ANSI A108.15, ANSI A108.16, and ANSI A108.17, which are contained in its "Specifications for Installation of Ceramic Tile."
- C. Module Size: Actual tile size plus joint width indicated.
- D. Face Size: Actual tile size, excluding spacer lugs.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference:
  - 1. Review requirements in ANSI A108.01 for substrates and for preparation by other trades.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For tile, grout, and accessories involving color selection.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Tile: One Box of each type

1.7 QUALITY ASSURANCE

- A. Installer Qualifications:
  - 1. Installer has been in ceramic tiling business for a minimum of 10 years with a proven track record of minimum 5 projects of similar scope.



2. Installer has references available for above mentioned projects.

#### 1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.
- B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.
- D. Store liquid materials in unopened containers and protected from freezing.

#### 1.9 FIELD CONDITIONS

- A. Environmental Limitations: Installation is within an existing space, over existing and new concrete. Contractor to verify substrate conditions prior to beginning work.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Source Limitations for Tile: Obtain tile of each color or finish from single source or producer.
  1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.
- B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.
  1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.
  2. Obtain waterproof membrane from manufacturer of setting and grouting materials.
- C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:
  1. Waterproof membrane.
  2. Metal edge strips.

#### 2.2 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
  1. Provide tile complying with Standard grade requirements unless otherwise indicated.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

#### 2.3 TILE PRODUCTS

- A. Ceramic Tile Type CT-1: Inkjet Rectified Porcelain Tile.
  1. Manufacturer: Mediterranea
  2. Series: Modern Slate
  3. Certification: Tile certified by UL Government.
  4. Face Size: 12"x24"
  5. Offset: Install at 1/3 Offset.
  6. Thickness: 8 mm
  7. Face: Anti-Slip

8. Dynamic Coefficient of Friction: Not less than 0.75.
9. Tile Color: To be selected by Architect from Manufacturers full range.
10. Grout Color: To be selected by Architect from Manufacturers full range.
11. Locations: Floor tile where indicated on Drawings

B. Ceramic Tile Type CT-2: Inkjet Rectified Porcelain Tile Base.

1. Manufacturer: Mediterranea
2. Series: Modern Slate
3. Certification: Tile certified by UL Government.
4. Base Size: Cut from full size tiles
5. Vertical Joints: Align with floor tile joints.
6. Thickness: 8 mm
7. Face: Matte
8. Dynamic Coefficient of Friction: Not less than 0.42.
9. Tile Color: To be selected by Architect from Manufacturers full range.
10. Grout Color: To be selected by Architect from Manufacturers full range

C. Ceramic Tile Type CT-3: Porcelain Tile.

1. Manufacturer: Atlas Concorde.
2. Series: Fray.
3. Certification: Tile certified by the Porcelain Tile Certification Agency.
4. Face Size: 12"x24"
5. Offset: Install at 1/3 Offset
6. Thickness: 9 mm
7. Face: Matte
8. Dynamic Coefficient of Friction: Not less than 0.42.
9. Tile Color: To be selected by Architect from Manufacturer's full range.
10. Grout Color: To be selected by Architect from Manufacturer's full range..
11. Locations: Wall tile where indicated on Drawings.

## 2.4 SETTING MATERIALS

A. Poly modified Portland Cement Mortar: ANSI A118.1

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
  - a. Laticrete Tri-lite
  - b. Architect approved equal.
2. Admixtures: Provide flexible mortar admixture if recommended by manufacturer.

## 2.5 GROUT MATERIALS

A. Pre-Mixed Epoxy Grout ANSI 118.3

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
  - a. Laticrete International, Inc.; SPECTRALOCK 1 pre-mixed epoxy grout  
Provide product capable of providing the strength and performance of epoxy in a pre-mixed grout, and certified by manufacturer for intended use. Product includes Micro-Ban anti-microbial protection.

## 2.6 MISCELLANEOUS MATERIALS

- A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated. Use over primer at above grade recess slab infill.
1. Laticrete NXT Level.

2. Architect approved equal.
  - B. Primers: Low VOC latex primer.
    - 1 Laticrete Prime-N-Bond.
    - 2 Architect approved equal.
  - C. Metal Edge Strips:
    1. Basis of Design Manufacturer: Subject to compliance with requirements, provide the following products by Laticrete, Schluter, or Architect approved equal:
      - a. Bullnose: Laticrete R02-A100SAT-01
      - b. Inside Corners; Laticrete R02-A100SAT-08
      - c. Outside Corners; Laticrete R02-A100SAT-04
      - d. Coves: Laticrete C02-A100SAT-01
      - e. Tile Floor transitions: Laticrete TR1-A100SAT-01
      - f. Tapered transitions: Schulte-Reno-Ramp2"
  - D. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.
- 2.7 MIXING MORTARS AND GROUT
- A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
  - B. Add materials, water, and additives in accurate proportions.
  - C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
  1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
  2. Verify that concrete substrates for tile floors installed with bonded mortar bed comply with surface finish requirements in ANSI A108.01 for installations indicated.
    - a. Verify that surfaces that received a steel trowel finish have been mechanically scarified.
    - b. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.
  3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
  4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Remove existing tile or base, including mortar, adhesives and setting materials back to substrate.
- B. Existing terrazzo base coves to be ground off sufficiently to allow installation of new ceramic base or wall tile.
- C. Existing terrazzo flooring in area to receive new tile to be stripped of waxes or finishes, cleaned, and abraded as required. Provide Prime-N-Bond primer and allow to cure prior to installing tile.

### 3.3 CERAMIC TILE INSTALLATION

- A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
  - 1. For the following installations, follow procedures in the ANSI A108 series of tile installation standards for providing 95 percent mortar coverage:
    - a. Tile floors in wet areas.
    - b. Tile floors consisting of tiles 8 by 8 inches (200 by 200 mm) or larger.
- B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- D. Where tiles differ in thickness from field tile, vary setting-bed thickness so that tiles are flush.
- E. Jointing Pattern: Lay tile in grid pattern parallel to walls. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths.
- F. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
  - 1. Porcelain Tile: 1/8 inch (9.5 mm).
- G. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
  - 1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.

### 3.4 WATERPROOFING INSTALLATION

- A. Install waterproofing to comply with ANSI A108.10 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.
  - 1. Coverage: Waterproofing to extend from floor to 6" up wall or to top of wall base.
- B. Allow waterproofing to cure and verify by testing that it is watertight before installing tile or setting materials over it.

### 3.5 MOVEMENT JOINT INSTALLATION

- A. Substrate joints must carry through, full width, to surface of tilework.
- B. Install expansion joints where tilework abuts restraining surfaces (such as perimeter walls, curbs, columns), changes in plane and corners.

- C. Joint width and spacing depends on application - follow TCNA "Handbook for Ceramic, Glass, and Stone Tile Installation" Detail "EJ-171 Expansion Joints" or consult sealant manufacturer for recommendation based on project parameters.
- D. Joint width:  $\geq \frac{1}{8}$ " (3mm) and  $\leq 1$ " (25mm).
- E. Joint width: depth -2:1 but joint depth must be  $\geq \frac{1}{8}$ " (3mm) and  $\leq \frac{1}{2}$ " (12mm)
- F. Layout (field defined by joints): 1:1 length: width is optimum but must be  $\leq 2:1$ . Remove all contaminants and foreign material from joint spaces/surfaces, such as dirt, dust, oil, water, frost, setting/grouting materials, sealers and old sealant/backer.
- G. Install appropriate backing material (e.g. closed cell backer rod) based on expansion joint design and as specified in section 07 92 00.
- H. Use sealant manufacturer's primer as required by their published literature.

### 3.6 ADJUSTING AND CLEANING

- A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.
- B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
  - 1. Remove grout residue from tile as soon as possible.
  - 2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

### 3.7 PROTECTION

- A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.
- B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
- C. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

END OF SECTION 093013

# RENOVATION FOR BCPS:

# BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

## BAY CITY, MICHIGAN



### CONTACTS:

#### OFFICE OF THE ARCHITECT:

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### INDEX OF DRAWINGS:

TS	TITLE SHEET	STRUCTURAL	ELECTRICAL
		S2.01 ROOF FRAMING PLAN	E1.01 FIRST FLOOR DEMOLITION PLAN - UNIT 'F' & UNIT 'G' - ELECTRICAL
ARCHITECTURAL		S3.01 NOTES, SCHEDULES AND DETAILS	E1.02 FIRST FLOOR DEMOLITION PLAN - UNIT 'G' - ELECTRICAL
A0.01 PROJECT INFORMATION AND WALL TYPES		MECHANICAL	E2.01 FIRST FLOOR DEMOLITION PLAN - UNIT 'F' & UNIT 'G' - REVISED LIGHTING
A2.01 FIRST FLOOR MASTER & ENLARGED CODE PLAN		M1.01 FIRST FLOOR PLAN UNIT "F" - MECHANICAL AND PLUMBING DEMOLITION	E2.02 FIRST FLOOR DEMOLITION PLAN - UNIT 'G' - REVISED LIGHTING
A2.11 FIRST FLOOR DEMOLITION PLAN - UNIT 'A', 'F' & UNIT 'G'		M1.02 FIRST FLOOR PLAN UNIT "G" - MECHANICAL AND PLUMBING DEMOLITION	E2.03 FIRST FLOOR DEMOLITION PLAN - UNIT 'F' & UNIT 'G' - REVISED POWER AND SYSTEMS
A2.12 FIRST FLOOR DEMOLITION PLAN - UNIT 'G'		M2.01 FIRST FLOOR PLAN UNIT "F" - PLUMBING AND HVAC PIPING REVISIONS	E2.04 FIRST FLOOR DEMOLITION PLAN - UNIT 'G' - REVISED POWER AND SYSTEMS
A2.21 FIRST FLOOR CONSTRUCTION PLAN - UNIT 'A', 'F' & 'G'		M2.02 FIRST FLOOR PLAN UNIT "G" - PLUMBING AND HVAC REVISIONS	E2.05 ROOF PLAN ELECTRICAL REVISIONS
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A3.01 FIRST FLOOR FINISH PLAN - UNIT 'A', UNIT 'F' & UNIT 'G'		M3.02 ROOF PLAN MECHANICAL REVISIONS	E3.02 ELECTRICAL PANEL SCHEDULES
A3.02 FIRST FLOOR FINISH PLAN - UNIT 'G'		M4.01 MECHANICAL SCHEDULES	E4.01 FIRST FLOOR PLAN - UNIT 'F' & 'G' - REVISED EMERGENCY LIGHTING
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A6.01 PARTIAL ROOF PLAN		M5.01 MECHANICAL DETAILS	
A8.01 INTERIOR ELEVATIONS AND DETAILS			
A9.01 FIRST FLOOR REFLECTED CEILING PLAN - UNIT 'F' & UNIT 'G'			
A9.02 FIRST FLOOR REFLECTED CEILING PLAN - UNIT 'G'			

#### SCHEDULE OF ALTERNATES:

**ALTERNATE NO. 1**  
 BASE BID: EXISTING RED LOCKERS TO REMAIN  
 ALTERNATE: EXISTING RED LOCKERS TO BE PREPPED AND PAINTED.

**ALTERNATE NO. 2**  
 BASE BID: EXISTING RED LOCKERS TO REMAIN  
 ALTERNATE: EXISTING RED LOCKERS TO BE REMOVED AND REPLACED WITH NEW METAL LOCKERS.

**ALTERNATE NO. 3**  
 BASE BID: EXISTING MEN AND WOMEN'S TOILET ROOMS TO REMAIN AS-IS.  
 ALTERNATE: EXISTING MEN AND WOMEN'S TOILET ROOMS TO BE REMODELED AS SHOWN ON DRAWINGS. FOR WALLS - SGFT WALLS TO BE PATCHED WITH SIMILAR SGFT (COLOR NOT MATCHING) AT PLUMBING LOCATIONS, PREPPED AND EPOXY PAINTED. FOR FLOORS - CUT AND PATCH EXISTING AND PROVIDE NEW THINSET CERAMIC TILE AND BASE OVER TOP OF TERRAZZO.

**ALTERNATE NO. 4**  
 BASE BID: EXISTING MEN AND WOMEN'S TOILET ROOMS TO REMAIN AS-IS.  
 ALTERNATE: EXISTING MEN AND WOMEN'S TOILET ROOMS TO BE REMODELED AS SHOWN ON DRAWINGS. FOR WALLS - GRIND OFF TERRAZZO COVE AND SGFT SHELVES AND PROVIDE NEW CERAMIC WALL TILE ON 1/2" TILE BACKER BOARD MECHANICALLY FASTENED TO WALL. AT URINAL WALL, INCLUDE METAL FURRING. FOR FLOORS - CUT AND PATCH EXISTING AND PROVIDE NEW THINSET CERAMIC TILE AND BASE OVER TOP OF TERRAZZO.

NO.	REVISION	DATE
A1	ADDENDUM NO. 1	02/19/24

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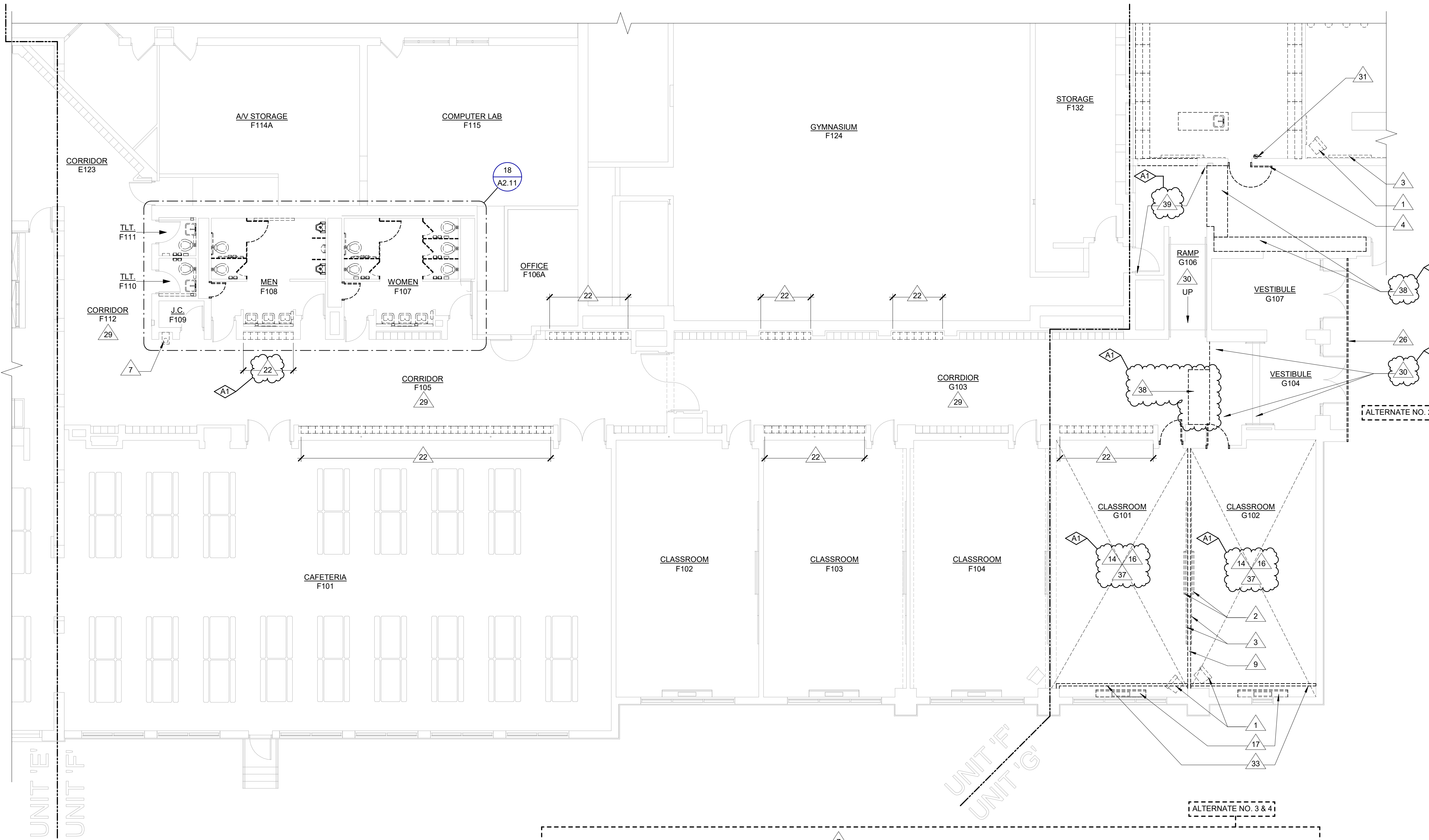
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PROJECT TITLE  
 RENOVATION FOR BCPS:  
**BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.**

BAY CITY, MICHIGAN

SHEET TITLE  
**TITLE SHEET**

PROJECT NUMBER <b>2018040.16</b>	SHEET NUMBER <b>TS</b>
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY J.A.R.	



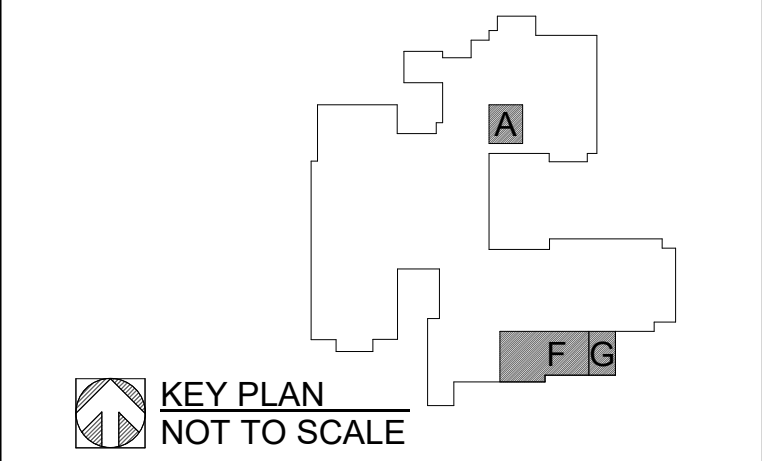
# DEMOLITION KEYNOTES

- 1 REMOVE AND SALVAGE EXISTING TELEVISION - RETURN TO OWNER
- 2 REMOVE AND SALVAGE EXISTING WHITE BOARD - RETURN TO OWNER
- 3 REMOVE AND SALVAGE EXISTING PROJECTOR SCREEN - RETURN TO OWNER
- 4 REMOVE EXISTING DOOR, FRAME, AND ALL ASSOCIATED HARDWARE
- 5 REMOVE EXISTING WALL CONSTRUCTION FOR NEW OPENING (REFER TO CONSTRUCTION PLAN)
- 6 REMOVE EXISTING CASEWORK ENTIRELY
- 7 REMOVE EXISTING PLUMBING FIXTURE (REFER TO MECHANICAL)
- 8 REMOVE AND SALVAGE EXISTING MODULAR FURNITURE - RETURN TO OWNER
- 9 REMOVE EXISTING WALL CONSTRUCTION FROM FINISH FLOOR TO STRUCTURE ABOVE
- 10 EXISTING CARRELS TO BE REMOVED AND RELOCATED BY OWNER
- 11 REMOVE EXISTING 24x36 MIRROR
- 12 REMOVE EXISTING TOILET PARTITION AND ASSOCIATED HARDWARE
- 13 REMOVE EXISTING GRAB BARS
- 14 REMOVE EXISTING CEILING TILE AND GRID
- 15 REMOVE AND SALVAGE EXISTING CASEWORK AND PLUMBING FIXTURES FOR RELOCATION
- 16 REMOVE AND SALVAGE EXISTING CEILING MOUNTED PROJECTOR - RETURN TO OWNER
- 17 REMOVE EXISTING UNIT VENTILATOR TO BE REMOVED (REFER TO MECHANICAL)
- 18 REMOVE EXISTING TOILET PAPER DISPENSER - RETURN TO OWNER
- 19 REMOVE EXISTING SANITARY NAPKIN DISPOSAL
- 20 REMOVE EXISTING SOAP DISPENSER - RETURN TO OWNER
- 21 REMOVE EXISTING PAPER TOWEL DISPENSER - RETURN TO OWNER
- 22 REMOVE EXISTING RED LOCKERS PER ALTERNATE NO. 2
- 23 REMOVE PORTION OF EXISTING WALL CONSTRUCTION AS REQUIRED FOR NEW PLUMBING (REFER TO MECHANICAL)
- 24 REMOVE EXISTING WALL CONSTRUCTION TO 1 INCH BELOW EXISTING CEILING (REFER TO CEILING PLAN)
- 26 REMOVE AND RE-INSTALL EXISTING FACE OF FLUTED METAL PANEL SOFFIT AND METAL SOFFIT AS REQUIRED FOR INSTALLING THE NEW AWNING (REFER TO STRUCTURAL)
- 27 REMOVE EXISTING CARPET AND GRIND OFF ADHESIVE - PREP FOR NEW FLOORING AND BASE
- 28 REMOVE EXISTING WALL BASE
- 29 REMOVE EXISTING RESILIENT WALL BASE IN CORRIDOR - VERIFY LOCATIONS IN FIELD
- 30 REMOVE EXISTING RED TILE AND MUD BED DOWN TO CONCRETE SLAB OR SUBSTRATE (REFER TO FINISH PLANS)
- 31 REMOVE AND SALVAGE EXISTING SURFACE MOUNTED FIRE EXTINGUISHER
- 32 REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR PLUMBING
- 33 REMOVE EXISTING SUSPENDED GYPSUM BOARD WINDOW HEADER (REFER TO CEILING PLAN FOR NEW HEADER INSTALLATION)
- 34 REMOVE AND SALVAGE DISPENSER - RETURN TO OWNER
- 35 SAWCUT BULLNOSE ON EXISTING WALL TO WITH ALIGN NEW WALL
- 36 GRIND AND REMOVE EXISTING STRUCTURAL GLAZED TILE SHELF
- 37 REMOVE EXISTING VCT FLOOR AND BASE, GRIND OFF ADHESIVE AND PREP FOR NEW FLOORING AND BASE
- 38 SAWCUT AND REMOVE EXISTING TERRAZZO AS REQUIRED FOR NEW CERAMIC TILE
- 39 STRIP AND PREP EXISTING TERRAZZO FOR NEW FLOORING

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL SHORING, TEMPORARY SUPPORTS, AND BRACING REQUIRED FOR THE SAFE DEMOLITION AND ERECTION OF STRUCTURAL COMPONENTS.
2. THE OWNER HAS FIRST SALVAGEABLE RIGHTS TO ALL ITEMS AND EQUIPMENT THAT ARE BEING DEMOLISHED. THE DEMOLITION CONTRACTOR SHALL VERIFY W/ THE OWNER WHICH ITEMS THEY WISH TO KEEP PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. THESE SALVAGED ITEMS ARE TO BE REMOVED IN GOOD CONDITION, AND TURNED OVER TO THE OWNER.
3. ALL BUILDING MATERIAL BEING DEMOLISHED IS TO BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE AND EXCLUDING THOSE ITEMS SALVAGED BY THE OWNER.
4. PROTECT ADJACENT MEMBERS, FINISHES AND SURFACES FROM DAMAGE DURING DEMOLITION WORK. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE W/ ADJACENT STRUCTURAL MEMBERS, BUILDING AREAS, AND PUBLIC AND PRIVATE THOROUGHFARES. MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES.
5. PRIOR TO BEGINNING ANY DEMOLITION WORK PROVIDE TEMPORARY BARRIERS AS REQUIRED TO PREVENT MIGRATION OF DUST AND NOISE INTO ADJACENT AREAS. TO PREVENT UNAUTHORIZED ACCESS INTO THE WORK AREA, AND TO PROTECT THE GENERAL PUBLIC.
6. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

NO.	REVISION	DATE
A1	ADDENDUM NO. 1	02/19/24



KEY PLAN  
NOT TO SCALE

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989 752 8107

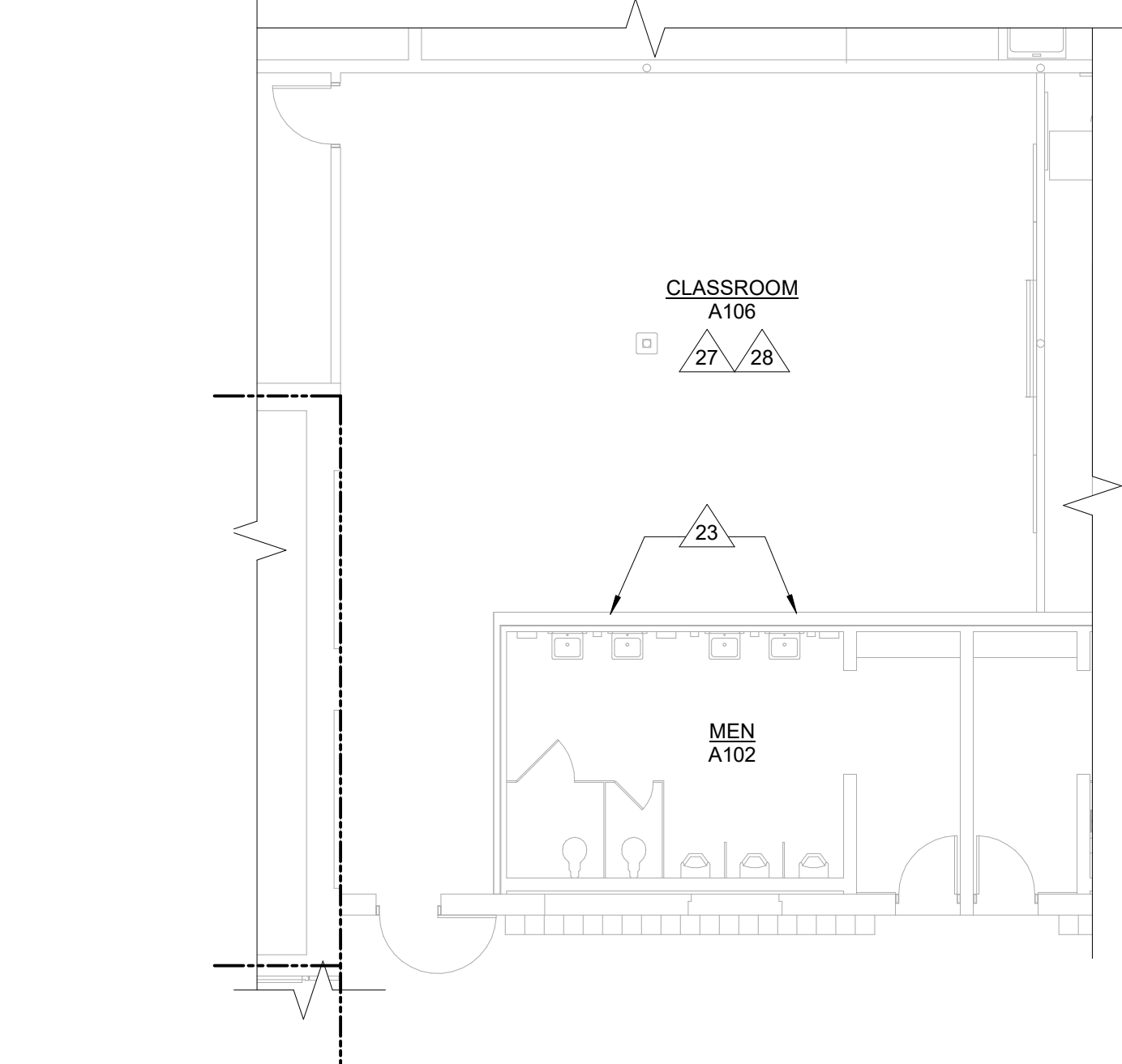
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PROJECT TITLE  
RENOVATION FOR BCPS:  
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BAY CITY, MICHIGAN

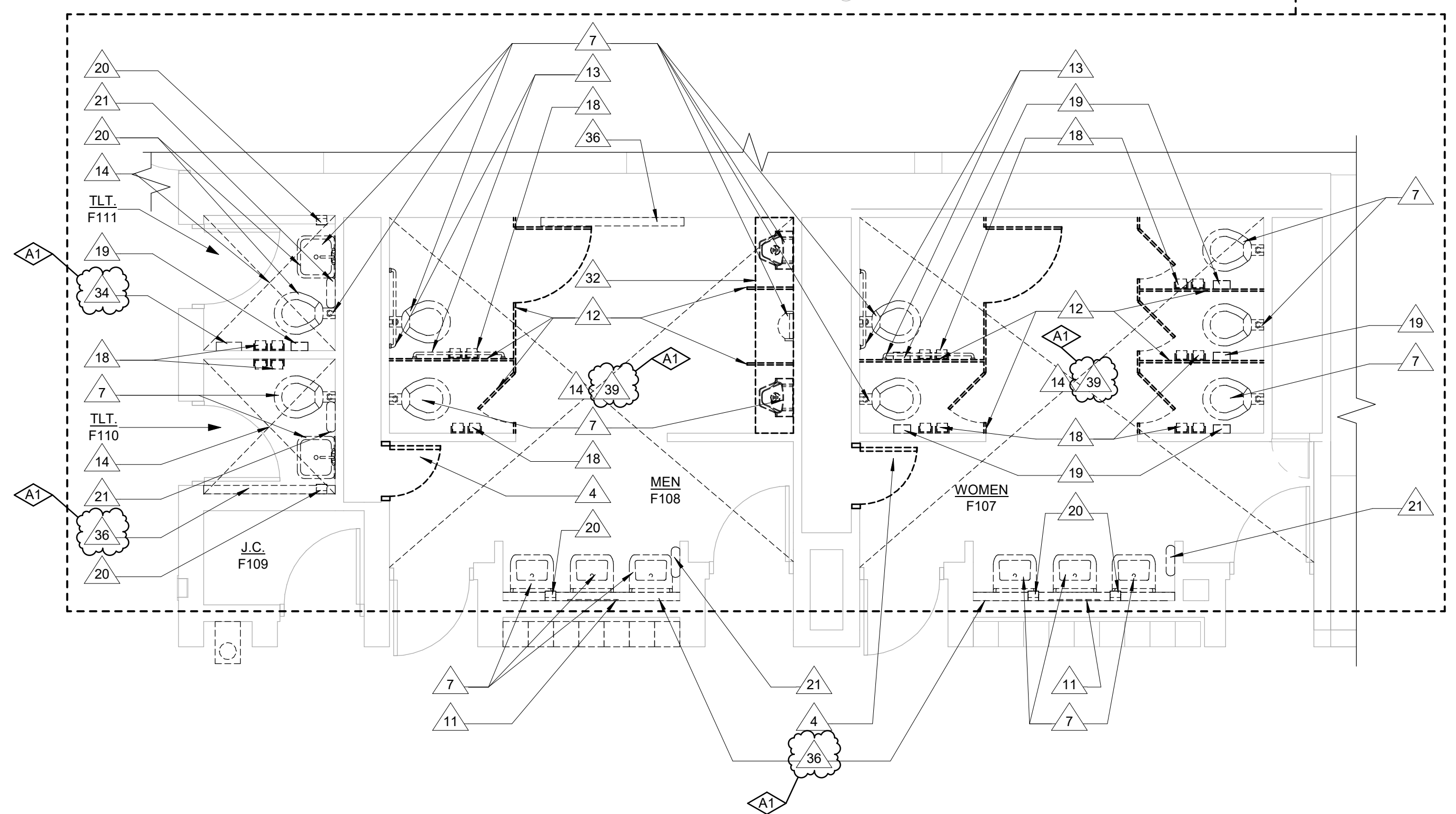
SHEET TITLE  
**FIRST FLOOR DEMOLITION PLAN - UNIT 'A', 'F' & UNIT 'G'**

PROJECT NUMBER <b>2018040.16</b>	SHEET NUMBER <b>A2.11</b>
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY J.A.R.	

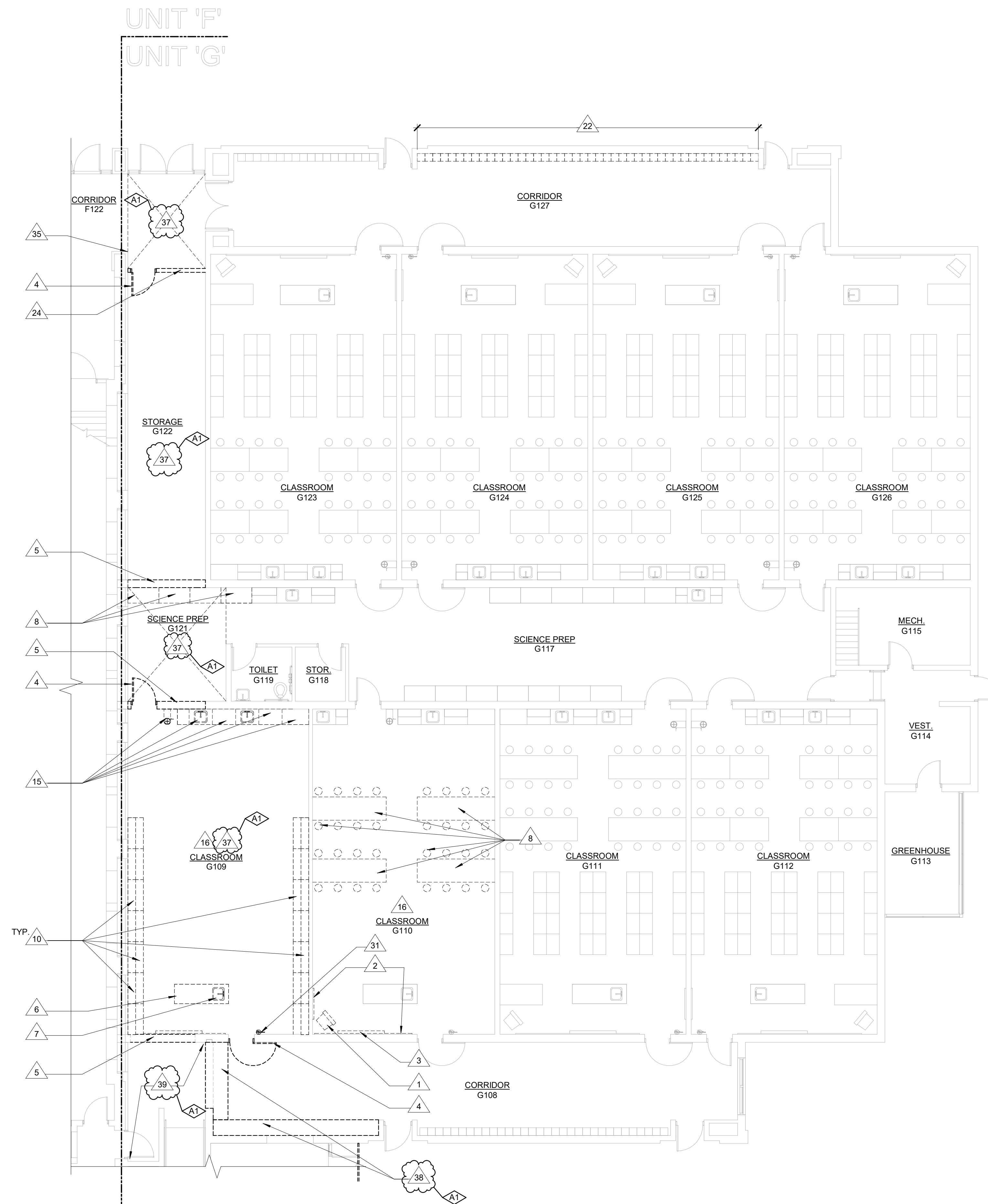
11 FIRST FLOOR DEMOLITION PLAN - UNIT 'F' & 'G'  
SCALE: 1/8" = 1'-0"



16 FIRST FLOOR DEMOLITION PLAN - UNIT 'A'  
SCALE: 1/8" = 1'-0"



18 ENLARGED DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"



**FIRST FLOOR DEMOLITION PLAN - UNIT 'G'**  
 SCALE: 1/8" = 1'-0"  
 NORTH

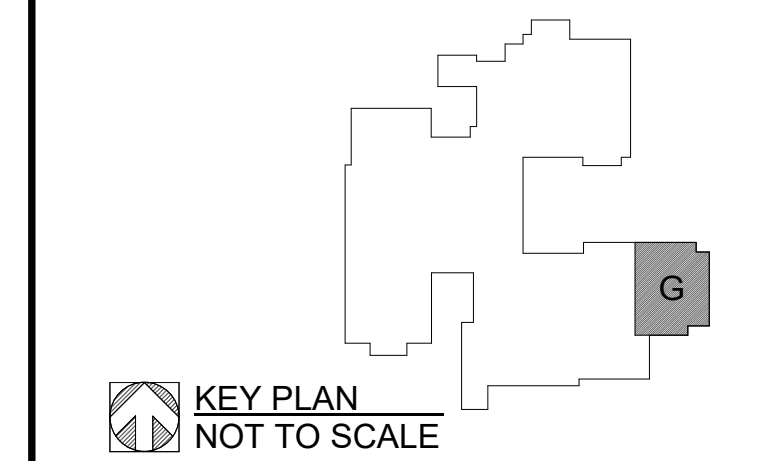
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- 23 REMOVE PORTION OF EXISTING WALL CONSTRUCTION AS REQUIRED FOR NEW PLUMBING (REFER TO MECHANICAL)
- 24 REMOVE EXISTING WALL CONSTRUCTION TO 1 INCH BELOW EXISTING CEILING (REFER TO CEILING PLAN)
- 26 REMOVE AND RE-INSTALL EXISTING FACE OF FLUTED METAL PANEL SOFFIT AND METAL SOFFIT AS REQUIRED FOR INSTALLING THE NEW AWNING (REFER TO STRUCTURAL)
- 27 REMOVE EXISTING CARPET AND GRIND OFF ADHESIVE - PREP FOR NEW FLOORING AND BASE
- 28 REMOVE EXISTING WALL BASE
- 29 REMOVE EXISTING RESILIENT WALL BASE IN CORRIDOR. VERIFY LOCATIONS IN FIELD.
- 30 REMOVE EXISTING RED TILE AND MUD BED DOWN TO CONCRETE SLAB OR SUBSTRATE (REFER TO FINISH PLANS)
- 31 REMOVE AND SALVAGE EXISTING SURFACE MOUNTED FIRE EXTINGUISHER
- 32 REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR PLUMBING
- 33 REMOVE EXISTING SUSPENDED GYPSUM BOARD WINDOW HEADER (REFER TO CEILING PLAN FOR NEW HEADER INSTALLATION)
- 34 REMOVE AND SALVAGE DISPENSER - RETURN TO OWNER
- 35 SAWCUT BULLNOSE ON EXISTING WALL TO WITH ALIGN NEW WALL
- 36 GRIND AND REMOVE EXISTING STRUCTURAL GLAZED TILE SHELF
- 37 REMOVE EXISTING VCT FLOOR AND BASE, GRIND OFF ADHESIVE AND PREP FOR NEW FLOORING AND BASE
- 38 SAWCUT AND REMOVE EXISTING TERRAZZO AS REQUIRED FOR NEW CERAMIC TILE
- 39 STRIP AND PREP EXISTING TERRAZZO FOR NEW FLOORING

**GENERAL DEMOLITION NOTES:**

1. THE CONTRACTOR SHALL PROVIDE ALL SHORING, TEMPORARY SUPPORTS, AND BRACING REQUIRED FOR THE SAFE DEMOLITION AND ERECTION OF STRUCTURAL COMPONENTS.
2. THE OWNER HAS FIRST SALVAGEABLE RIGHTS TO ALL ITEMS AND EQUIPMENT THAT ARE BEING DEMOLISHED. THE DEMOLITION CONTRACTOR SHALL VERIFY W/ THE OWNER WHICH ITEMS THEY WISH TO KEEP PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. THESE SALVAGED ITEMS ARE TO BE REMOVED IN GOOD CONDITION, AND TURNED OVER TO THE OWNER.
3. ALL BUILDING MATERIAL BEING DEMOLISHED IS TO BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE AND EXCLUDING THOSE ITEMS SALVAGED BY THE OWNER.
4. PROTECT ADJACENT MEMBERS, FINISHES AND SURFACES FROM DAMAGE DURING DEMOLITION WORK. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE W/ ADJACENT STRUCTURAL MEMBERS, BUILDING AREAS, AND PUBLIC AND PRIVATE THOROUGHFARES. MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES.
5. PRIOR TO BEGINNING ANY DEMOLITION WORK PROVIDE TEMPORARY BARRIERS AS REQUIRED TO PREVENT MIGRATION OF DUST AND NOISE INTO ADJACENT AREAS. TO PREVENT UNAUTHORIZED ACCESS INTO THE WORK AREA, AND TO PROTECT THE GENERAL PUBLIC.
6. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

A1	ADDENDUM NO. 1	02/19/24
NO.	REVISION	DATE



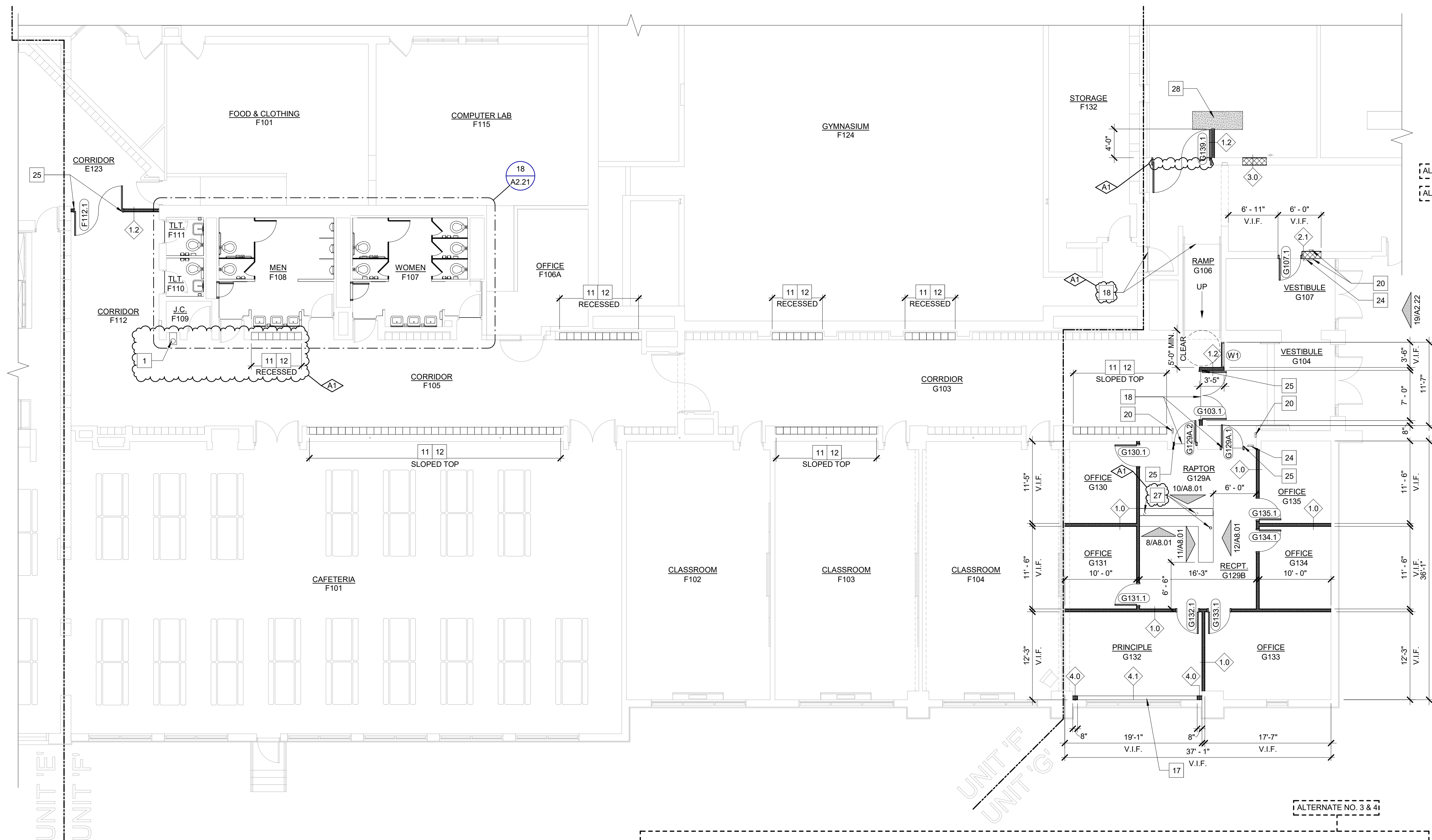
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PROJECT TITLE  
**RENOVATION FOR BCPS:  
 BAY CITY EASTERN HIGH  
 SCHOOL AT HANDY M.S.**  
 BAY CITY, MICHIGAN

SHEET TITLE  
**FIRST FLOOR  
 DEMOLITION PLAN - UNIT  
 'G'**

PROJECT NUMBER <b>2018040.16</b>	SHEET NUMBER <b>A2.12</b>
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY J.A.R.	





# PLAN KEYNOTES

- 1 NEW PLUMBING FIXTURE (REFER TO MECHANICAL)
- 2 NEW 18x36 MIRROR, 3'-8" A.F.F.
- 3 NEW SOAP DISPENSER - BY OWNER
- 4 NEW PAPER TOWEL DISPENSER - BY OWNER
- 5 NEW TOILET PARTITION (REFER TO SPECIFICATIONS)
- 6 NEW STAINLESS STEEL GRAB BARS
- 7 NEW TOILET PAPER DISPENSER - BY OWNER
- 8 NEW SANITARY NAPKIN DISPOSAL
- 9 RELOCATED EXISTING CASEWORK AND PLUMBING FIXTURES SALVAGED FROM DEMOLITION
- 10 NEW 24x72 MIRROR, 1'-0" A.F.F.
- 11 NEW BEIGE LOCKERS
- 12 PREP AND PAINT EXISTING RED LOCKERS TO MATCH ADJACENT BEIGE LOCKERS (P-4)
- 13 NEW 18x36 MIRROR (REFER TO STANDARD MOUNTING HEIGHTS DETAIL)
- 14 PATCH AND REPAIR EXISTING WALL CONSTRUCTION AT REMOVAL OF ALL EXISTING PLUMBING FIXTURES TO MATCH ADJACENT SURFACE (REFER TO MECHANICAL)
- 15 PATCH AND REPAIR EXISTING WALL CONSTRUCTION AT REMOVAL OF EXISTING PLUMBING FIXTURES AND CASEWORK TO MATCH ADJACENT SURFACE
- 17 MECHANICAL CHASE 4" CLEARANCE REQUIRED, 2'-0" TALL - VERIFY IN FIELD (REFER TO MECHANICAL)
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- 22 SAWCUT BULLNOSE ON EXISTING WALL TO WITH ALIGN NEW WALL
- 23 TOUCH UP EXISTING PAINT AS REQUIRED AFTER PLUMBING INSTALLATION
- 24 NEW INTERCOM, CAMERA, AND BUTTON ACCESS - PATCH AND REPAIR EXISTING WALL CONSTRUCTION AS REQUIRED FOR INSTALLATION (REFER TO ELECTRICAL)
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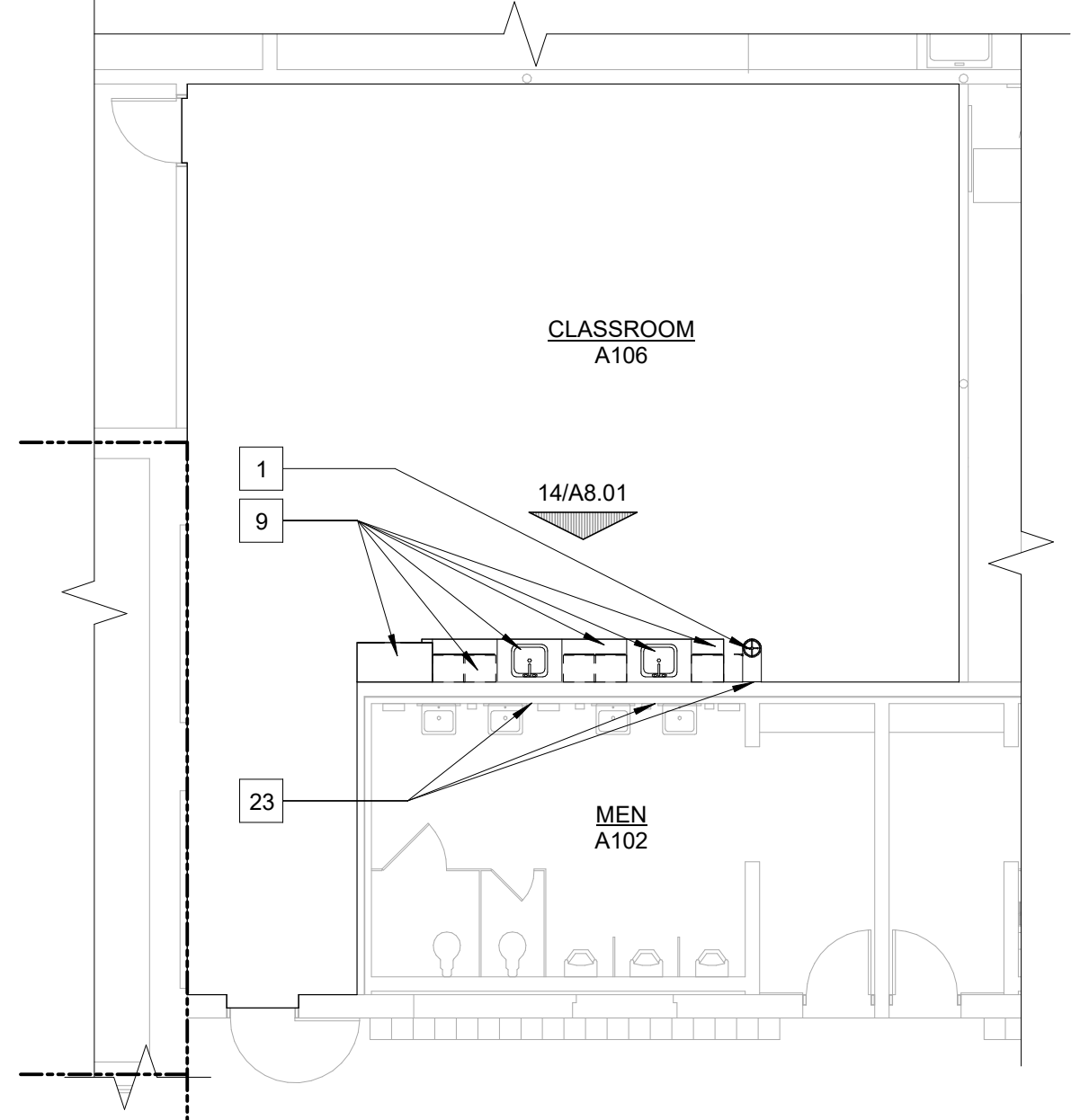
ALTERNATE NO. 2  
ALTERNATE NO. 1

ALTERNATE NO. 3 & 4

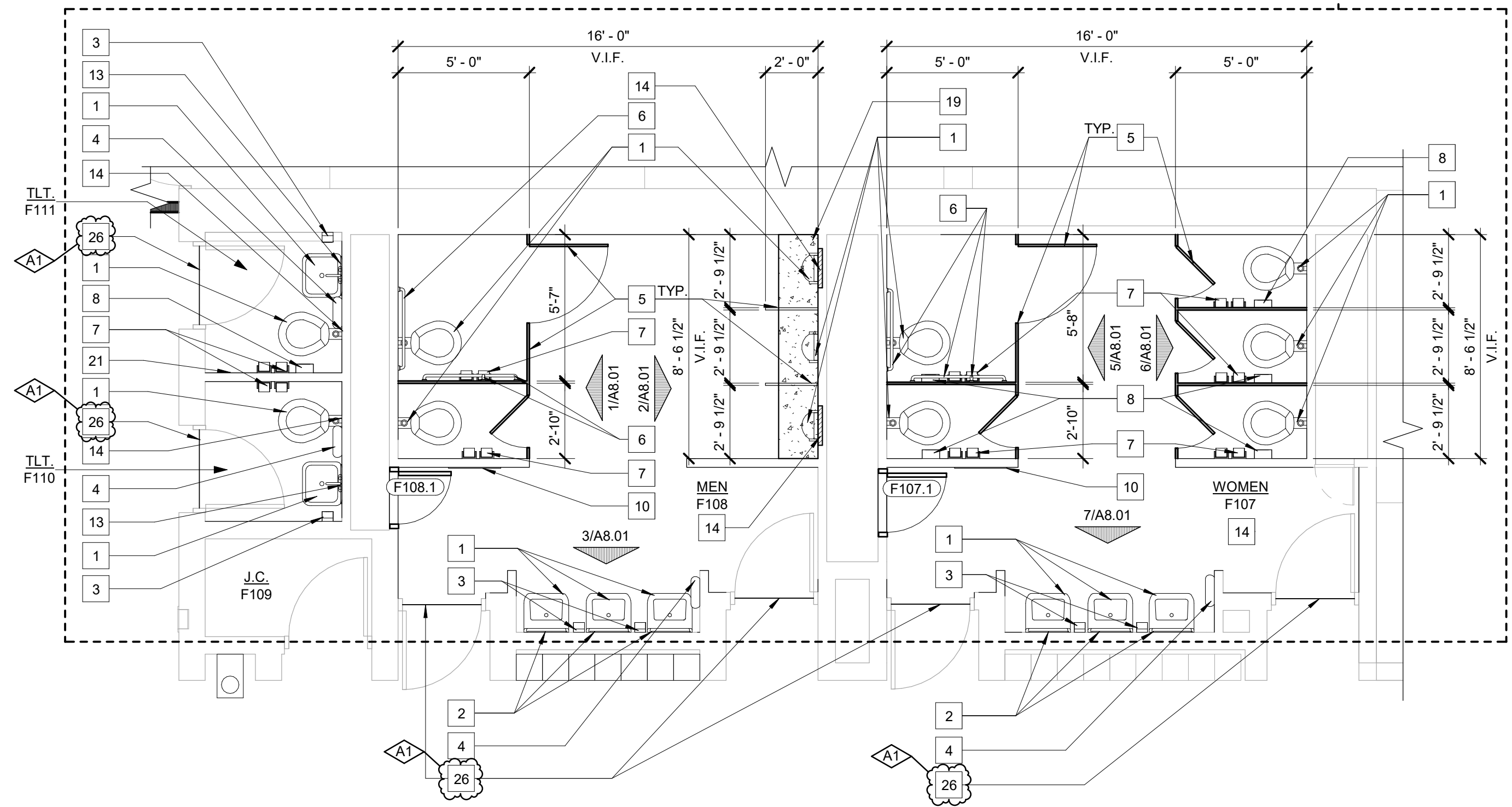
GENERAL PLAN NOTES:

1. WALL TYPES ARE INDICATED AS A DIAMOND WITH A NUMBER. REFER TO SHEET A0.01 FOR DESCRIPTION OF WALL TYPES.
2. PLAN DIMENSIONS DO NOT INCLUDE WALL THICKNESS (REFER TO WALL TYPES ON SHEET A0.01).
3. DOOR FRAMES ARE TO BE LOCATED 4" FROM THE PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR AT GYPSUM WALL LOCATIONS AND 8" AT MASONRY WALLS UNLESS NOTED OTHERWISE.
4. PROVIDE BLOCKING AT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO: PLUMBING ACCESSORIES, MONITORS, EQUIPMENT, ETC.
5. ALL AREAS DAMAGED BY DEMOLITION WORK ARE TO BE PATCHED AND REPAIRED OR REPLACED TO MATCH ADJACENT SURFACES.
6. PATCH AND REPAIR REMAINING WALLS; AT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION POINTS WITH SIMILAR MATERIALS IN SIZE, COLOR AND TEXTURE.
7. PATCH AND REPAIR ALL EXISTING FLOORS AS REQUIRED WHERE EXISTING WALLS HAVE BEEN REMOVED.
8. FURNITURE OR EQUIPMENT TO BE BUILT AND/OR INSTALLED BY CONTRACTOR IS SPECIFICALLY NOTED, DIMENSIONED OR DETAILED. ALL OTHER FURNITURE OR EQUIPMENT WILL BE PROVIDED AND INSTALLED BY OWNER.

11 FIRST FLOOR CONSTRUCTION PLAN - UNIT 'F' & 'G'  
SCALE: 1/8" = 1'-0"

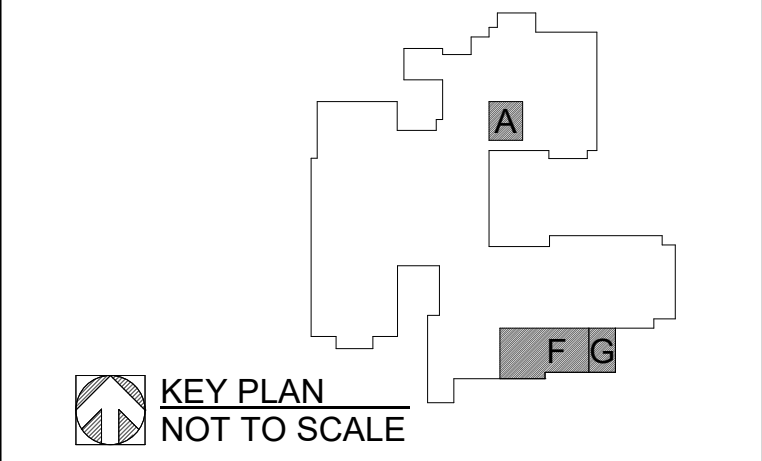


16 FIRST FLOOR CONSTRUCTION PLAN - UNIT 'A'  
SCALE: 1/8" = 1'-0"



18 ENLARGED CONSTRUCTION PLAN  
SCALE: 1/4" = 1'-0"

NO.	REVISION	DATE
A1	ADDENDUM NO. 1	02/19/24



KEY PLAN  
NOT TO SCALE

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989 752 8107

PROJECT TITLE  
RENOVATION FOR BCPS:  
**BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.**

BAY CITY, MICHIGAN

SHEET TITLE  
**FIRST FLOOR CONSTRUCTION PLAN - UNIT 'A', 'F' & 'G'**

PROJECT NUMBER  
**2018040.16**

PROJECT DATE  
FEBRUARY 1, 2024

CHECKED BY  
J.A.R.

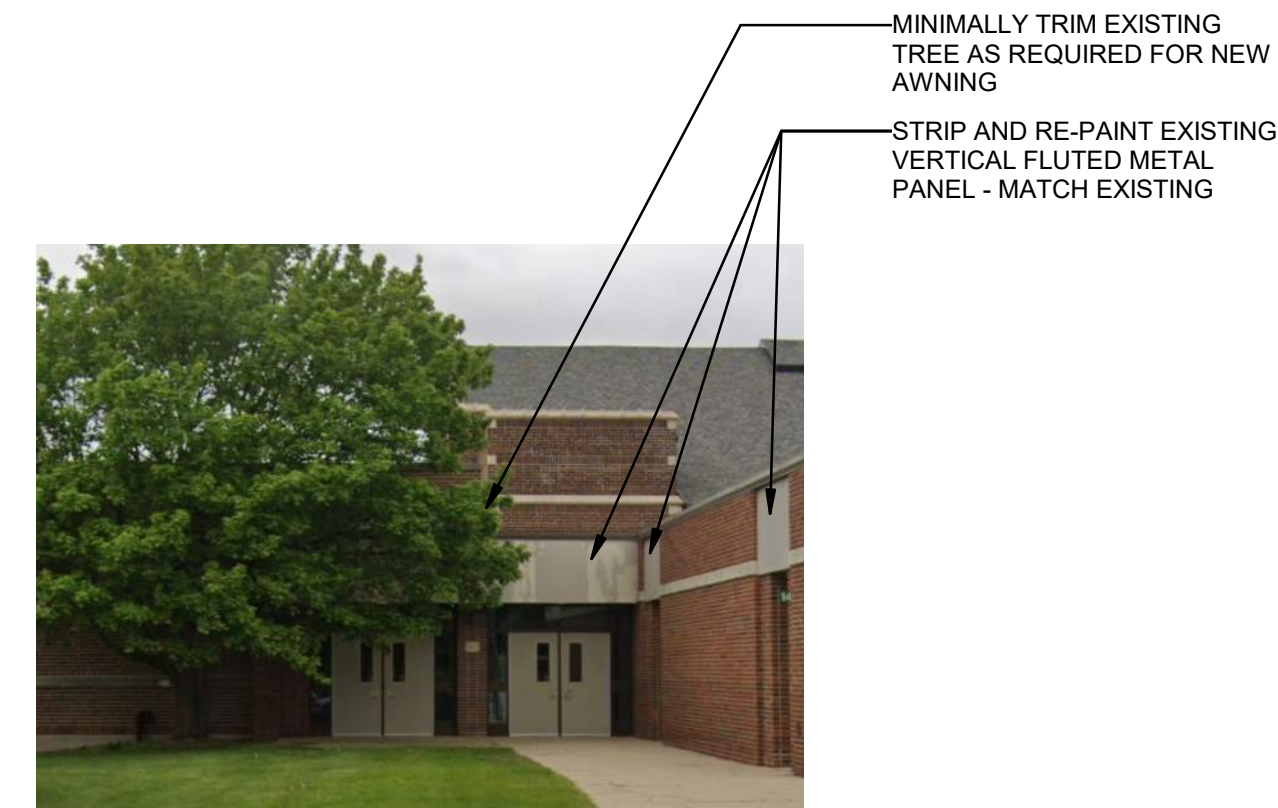
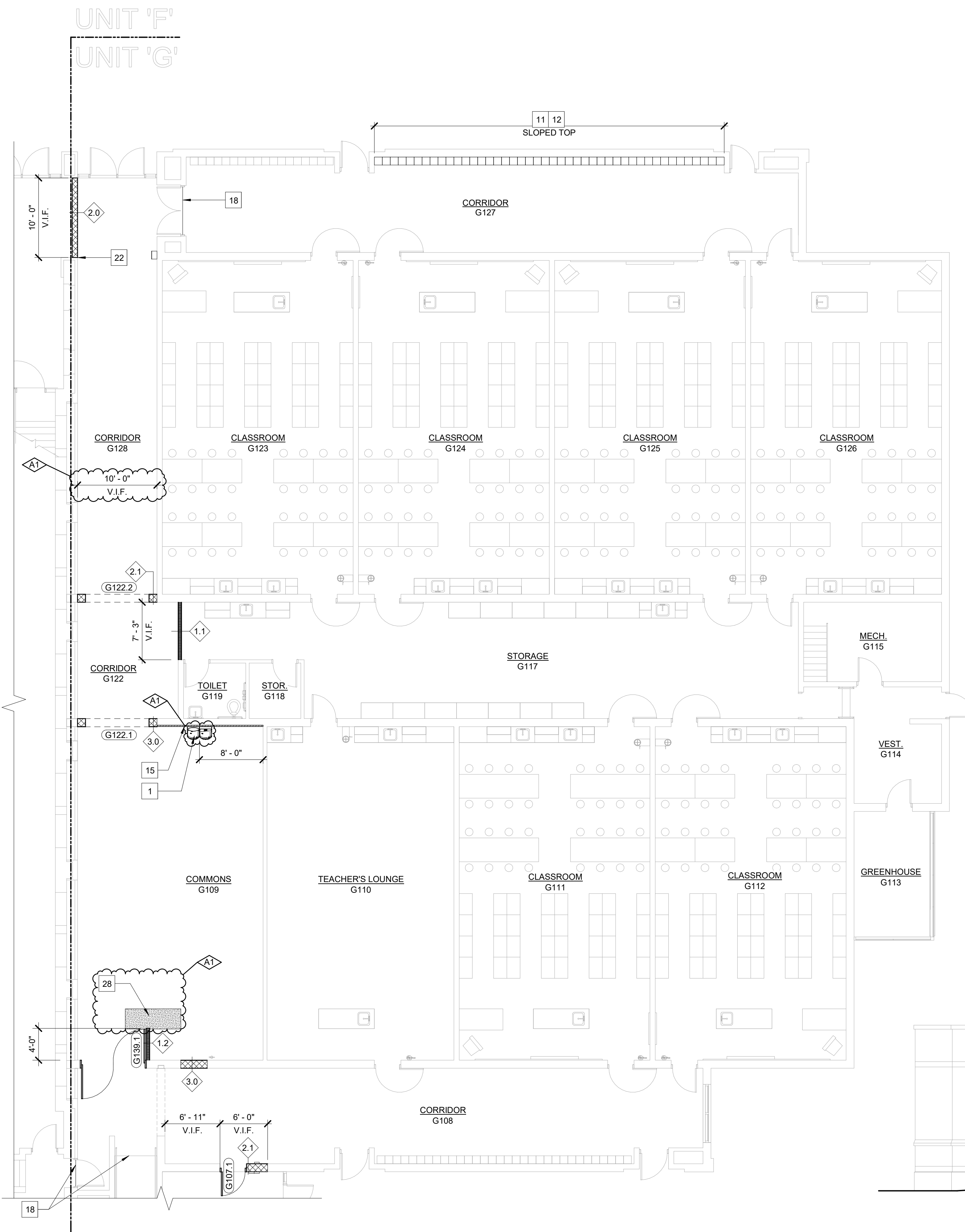
SHEET NUMBER  
**A2.21**

**GENERAL PLAN NOTES:**

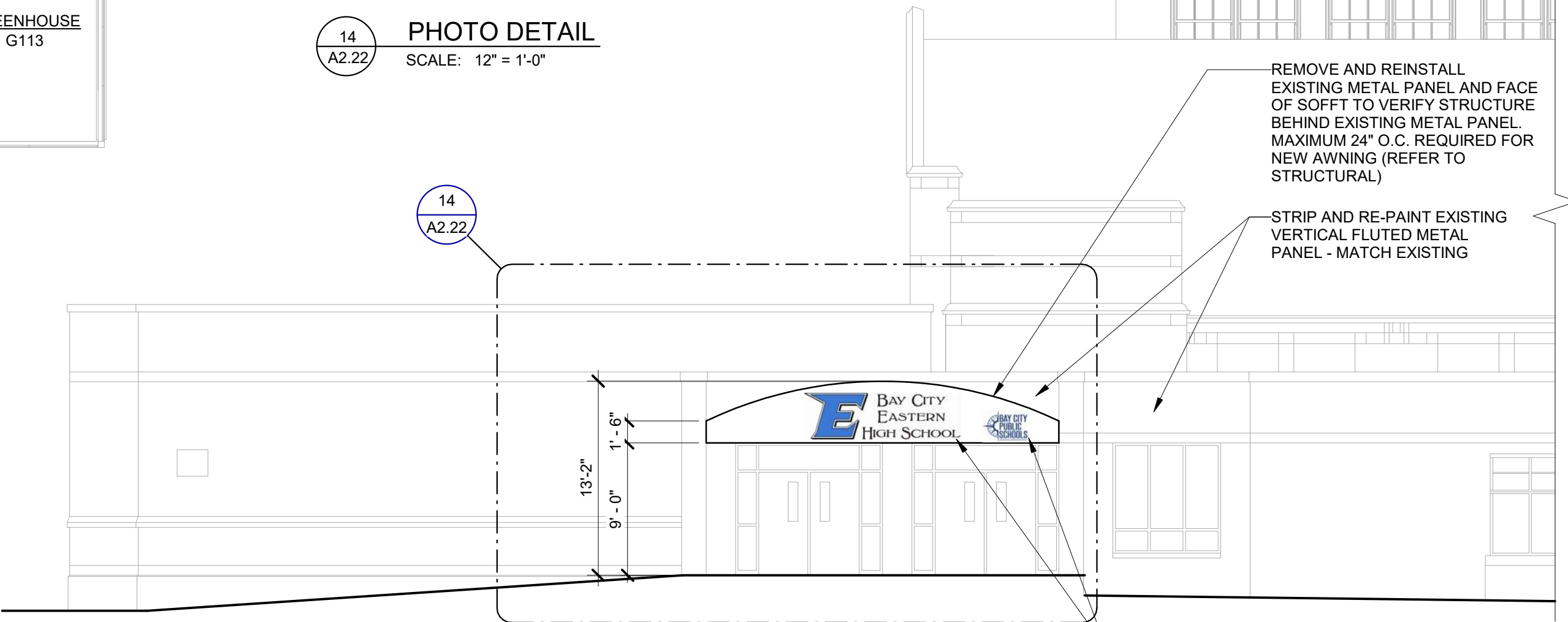
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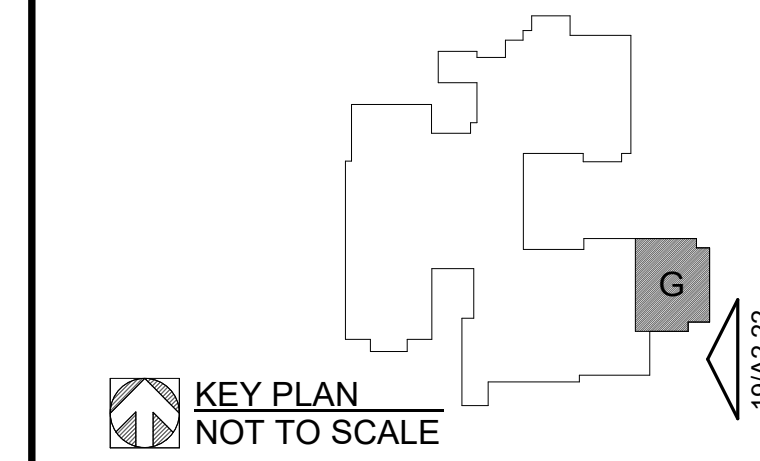
**14 PHOTO DETAIL**  
SCALE: 12" = 1'-0"



**EXTERIOR ELEVATION - EAST**  
SCALE: 1/8" = 1'-0"

**16 FIRST FLOOR CONSTRUCTION PLAN - UNIT 'G'**  
SCALE: 1/8" = 1'-0"

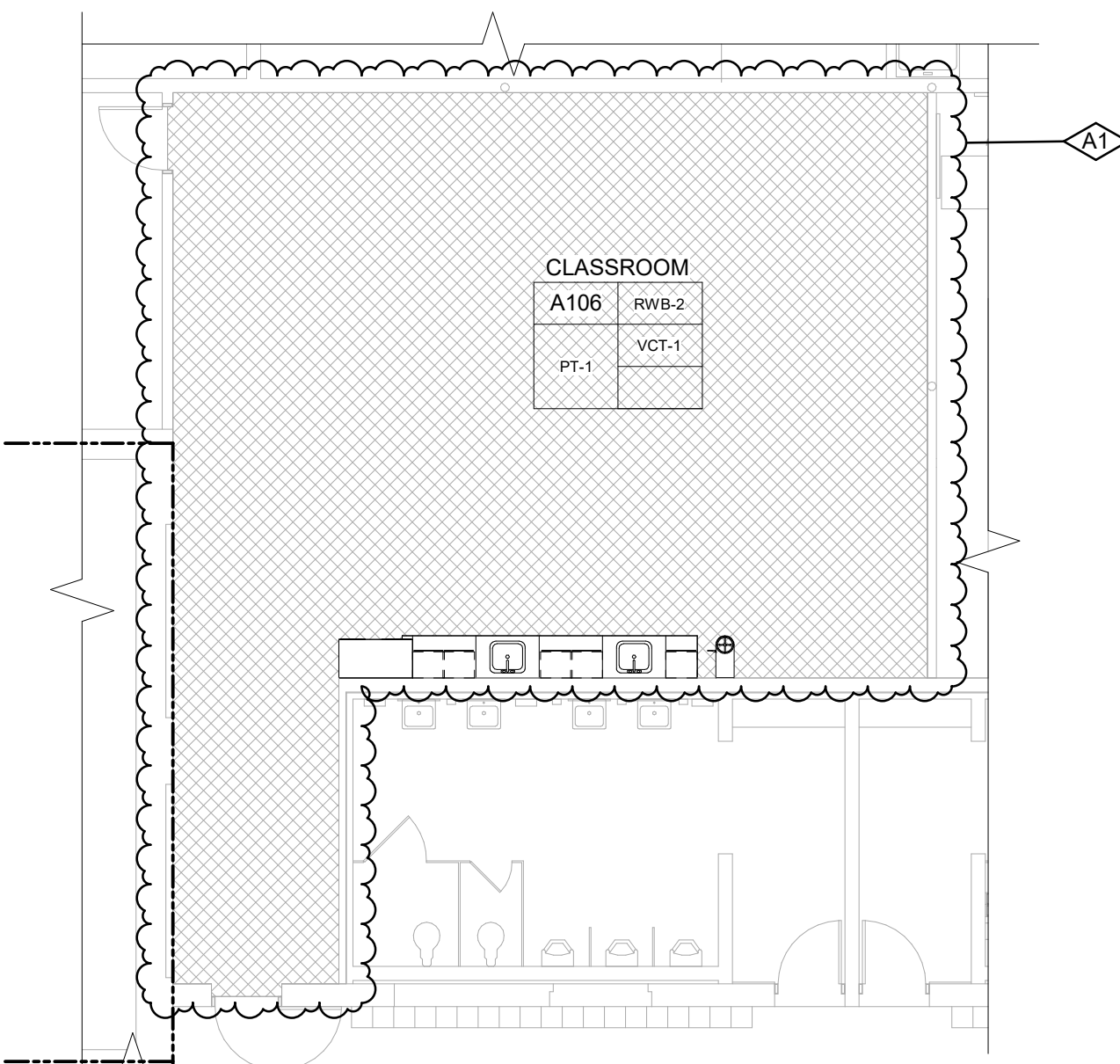
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NO.	REVISION	DATE



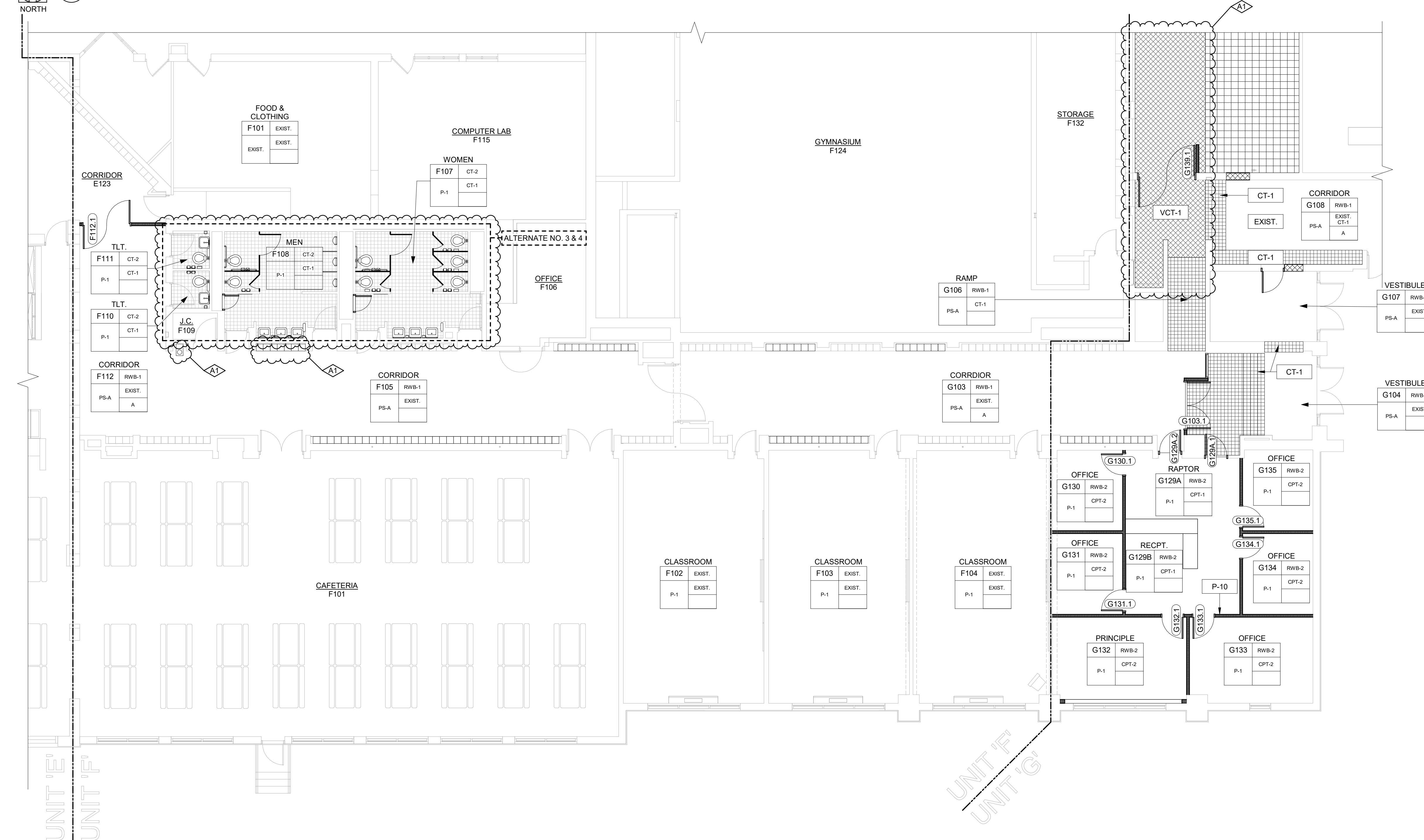
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PROJECT TITLE	
RENOVATION FOR BCPS: <b>BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.</b>	
BAY CITY, MICHIGAN	
SHEET TITLE	
<b>FIRST FLOOR CONSTRUCTION PLAN - UNIT 'G' &amp; EXT. ELEV.</b>	
PROJECT NUMBER	SHEET NUMBER
<b>2018040.16</b>	<b>A2.22</b>
PROJECT DATE	
FEBRUARY 1, 2024	
CHECKED BY	
J.A.R.	

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1 FIRST FLOOR FINISH PLAN - UNIT 'A'  
A3.01 SCALE: 1/8" = 1'-0"

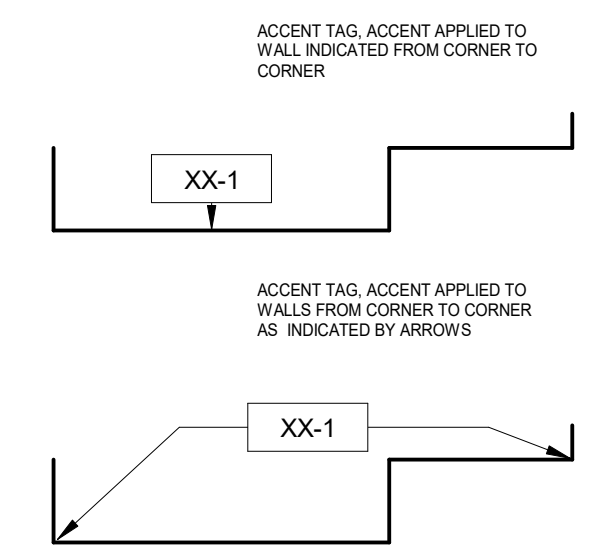


16 FIRST FLOOR FINISH PLAN - UNIT 'F' & 'G'  
A3.01 SCALE: 1/8" = 1'-0"

TAG	MANUFACTURER	STYLE	COLOR	SIZE	REMARKS
<b>CARPET</b>					
CPT-1	MANNINGTON	MULTIPLEXER	TBD	TBD	
CPT-2	MANNINGTON	MULTIPLEXER	TBD	TBD	
<b>CERAMIC TILE</b>					
CT-1	MEDITERRANEA	MODERN SLATE	TBD	12"x24"	ANTI-SLIP FINISH
CT-2	MEDITERRANEA	MODERN SLATE	TBD	12"x24"	MATTE FINISH
CT-3	ATLAS CONCORDE USA	FRAY	TBD	12"x24"	
<b>INTERIOR PAINT</b>					
P-1	SHERWIN WILLIAMS		TBD		WALL FIELD
P-2	SHERWIN WILLIAMS		TBD		WALL ACCENT EHS SKY BLUE
P-3	SHERWIN WILLIAMS		TBD		WALL ACCENT EHS WHITE
P-4	SHERWIN WILLIAMS		TBD		LOCKER COLOR HMS NEUTRAL STANDARD
P-5	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-6	SHERWIN WILLIAMS		TBD		MATCH ADJ. WALLS
P-7	SHERWIN WILLIAMS		TBD		GYPSON BOARD SOFFITS
P-8	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-9	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-10	SHERWIN WILLIAMS		TBD		RECEPTION WALL ACCENT
<b>PLASTIC LAMINATE</b>					
PLAM-1	ARBORITE	TBD	TBD		
PLAM-2	ARBORITE	TBD	TBD		
<b>RESILIENT WALL BASE</b>					
RWB-1	JOHNSONITE	6" VINYL COVE	TBD		
RWB-2	JOHNSONITE	4" VINYL COVE	TBD		
<b>VCT</b>					
VCT-1	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE VCT		12"x12"	
VCT-2	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE VCT		12"x12"	

**FINISH PLAN REMARKS:**

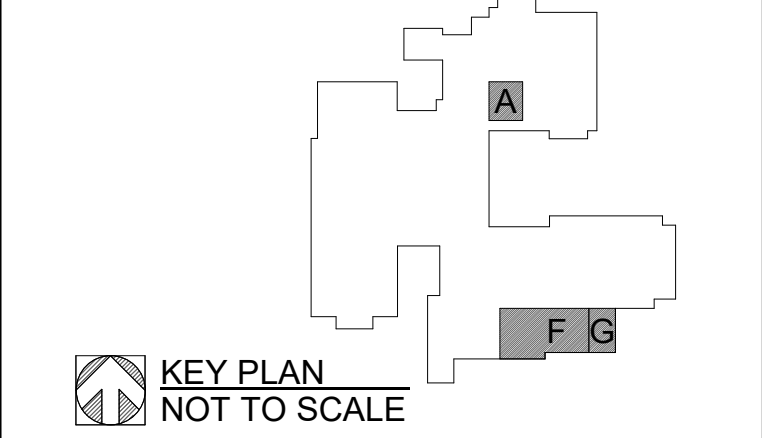
- A. PROVIDE SHIM AS REQUIRED FOR NEW RESILIENT WALL BASE.



**INTERIOR GENERAL NOTES:**

- AT STUD WALL LOCATIONS PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, DISPENSERS, ETC. (REFER TO MFR. RECOMMENDATIONS).
- ALL NEW CASEWORK TO HAVE HIGH PRESSURE LAMINATE EXTERIOR AND MELAMINE LAMINATE INTERIOR, UNLESS OTHERWISE NOTED.
- REFER TO FINISH MATERIAL SCHEDULE FOR SPECIFIC MANUFACTURER, STYLE, COLOR & SIZE INFORMATION
- REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION
- PROVIDE RESILIENT BASE AT TOE KICK OF CASEWORK WHEN INDICATED WITHIN A ROOM.
- FOR CASEWORK DETAILS - REFER TO "NORTHERN AMERICA ARCHITECTURAL WOODWORK STANDARDS (A.W.S.)."
- CASEWORK DESIGNATION REFERS TO THE WIDTH (W) AND DEPTH (D) OF THE CABINET. REFER TO DIMENSIONS FOR HEIGHT. REFER TO "A.W.S." FOR CABINET NUMBER LOCATED BELOW DIMENSION LINE.
- ALL CASEWORK LOCKABLE UNLESS OTHERWISE NOTED (DOORS AND DRAWERS).
- ALL CASEWORK TO HAVE PVC EDGE BAND ON ALL EDGES INCLUDING BUT NOT LIMITED TO: SUPPORT EDGES, DOOR, AND DRAWER EDGES, ETC.
- ALL CASEWORK TO HAVE CONCEALED HINGES W/ SELF-CLOSING DOORS AND DRAWERS.
- ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC) AND ELECTRICAL EQUIPMENT (PANELS, ETC) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.
- WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED.
- PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS.
- CARPET EDGES SHALL BE CAPTURED BY NOSING. NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS.
- REFER TO SPECIFICATIONS FOR COMPLETE FINISH INFORMATION.

A1	ADDENDUM NO. 1	02/19/24
NO.	REVISION	DATE



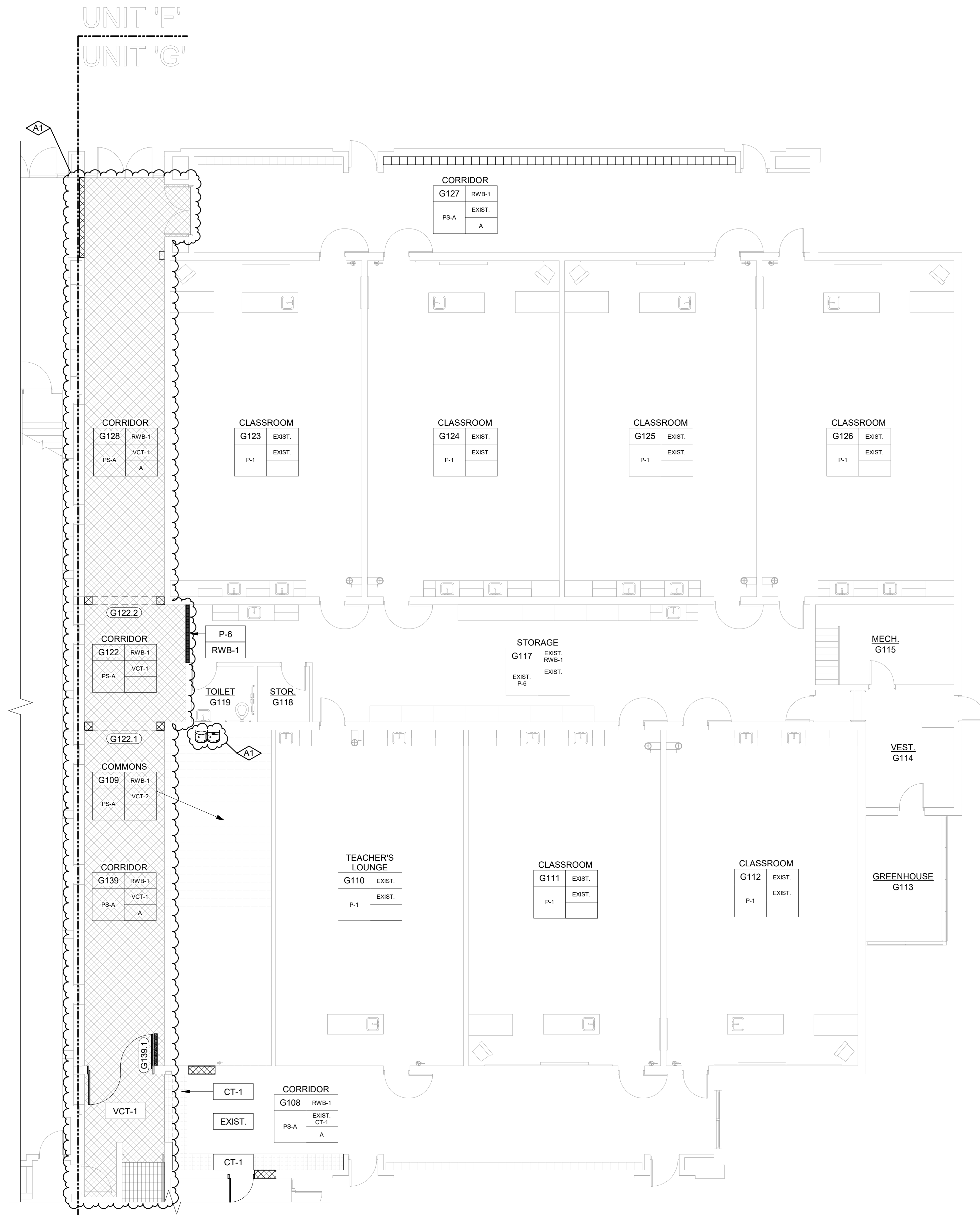
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PROJECT TITLE  
 RENOVATION FOR BCPS:  
**BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.**  
 BAY CITY, MICHIGAN

SHEET TITLE  
**FIRST FLOOR FINISH PLAN - UNIT 'A', UNIT 'F' & UNIT 'G'**

PROJECT NUMBER <b>2018040.16</b>	SHEET NUMBER <b>A3.01</b>
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY J.A.R.	

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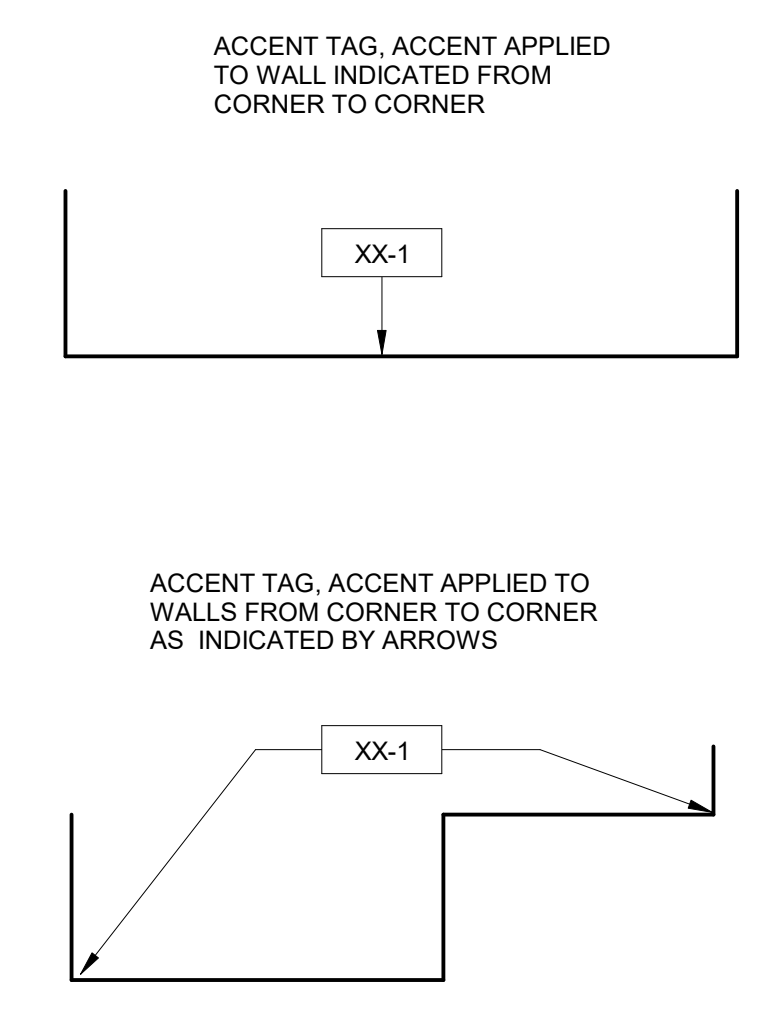


ALTERNATE NO. 4

FINISH PLAN REMARKS:

- A. PROVIDE SHIM AS REQUIRED FOR NEW RESILIENT WALL BASE.

FINISH PLAN LEGEND:

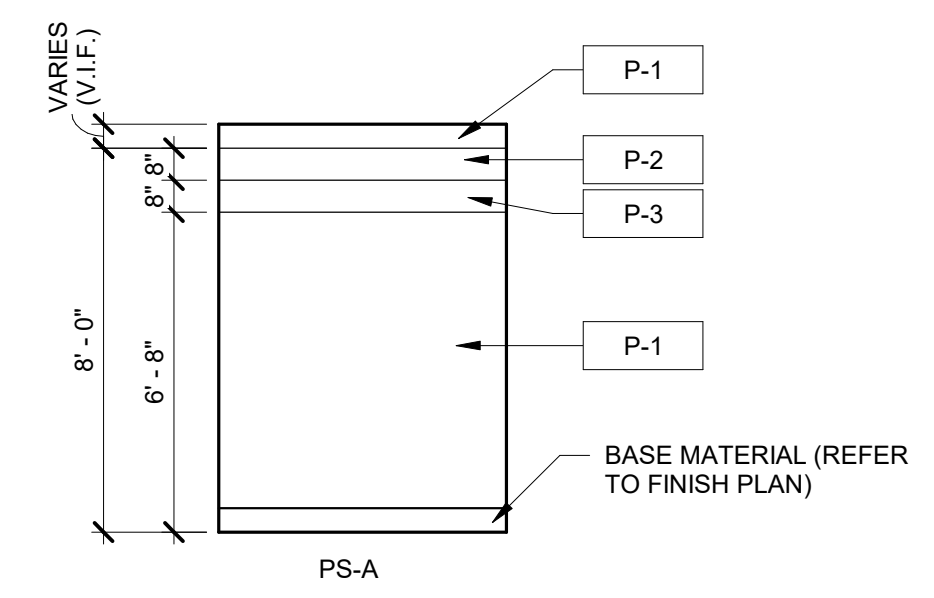


INTERIOR GENERAL NOTES:

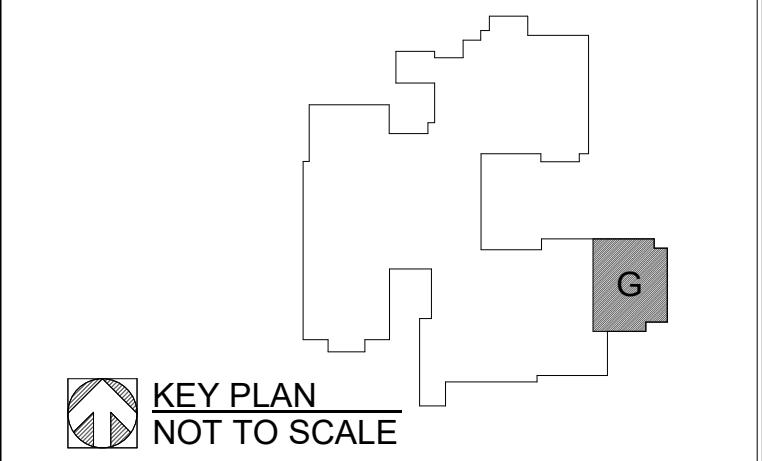
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FINISH MATERIAL SCHEDULE

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CPT-2	MANNINGTON	MULTIPLEXER	TBD	TBD	
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P-5	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-6	SHERWIN WILLIAMS		TBD		MATCH ADJ. WALLS
P-7	SHERWIN WILLIAMS		TBD		GYPSON BOARD SOFFITS
P-8	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-9	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-10	SHERWIN WILLIAMS		TBD		RECEPTION WALL ACCENT
PLASTIC LAMINATE					
PLAM-1	ARBORITE	TBD	TBD		
PLAM-2	ARBORITE	TBD	TBD		
RESILIENT WALL BASE					
RWB-1	JOHNSONITE	6" VINYL COVE	TBD		
RWB-2	JOHNSONITE	4" VINYL COVE	TBD		
VCT					
VCT-1	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE VCT	TBD	12"x12"	
VCT-2	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE VCT	TBD	12"x12"	



A1	ADDENDUM NO. 1	02/19/24
NO.	REVISION	DATE



WTA ARCHITECTS

100 S Jefferson Ave, Suite 601  
Saginaw, Michigan 48607  
989 752 8107

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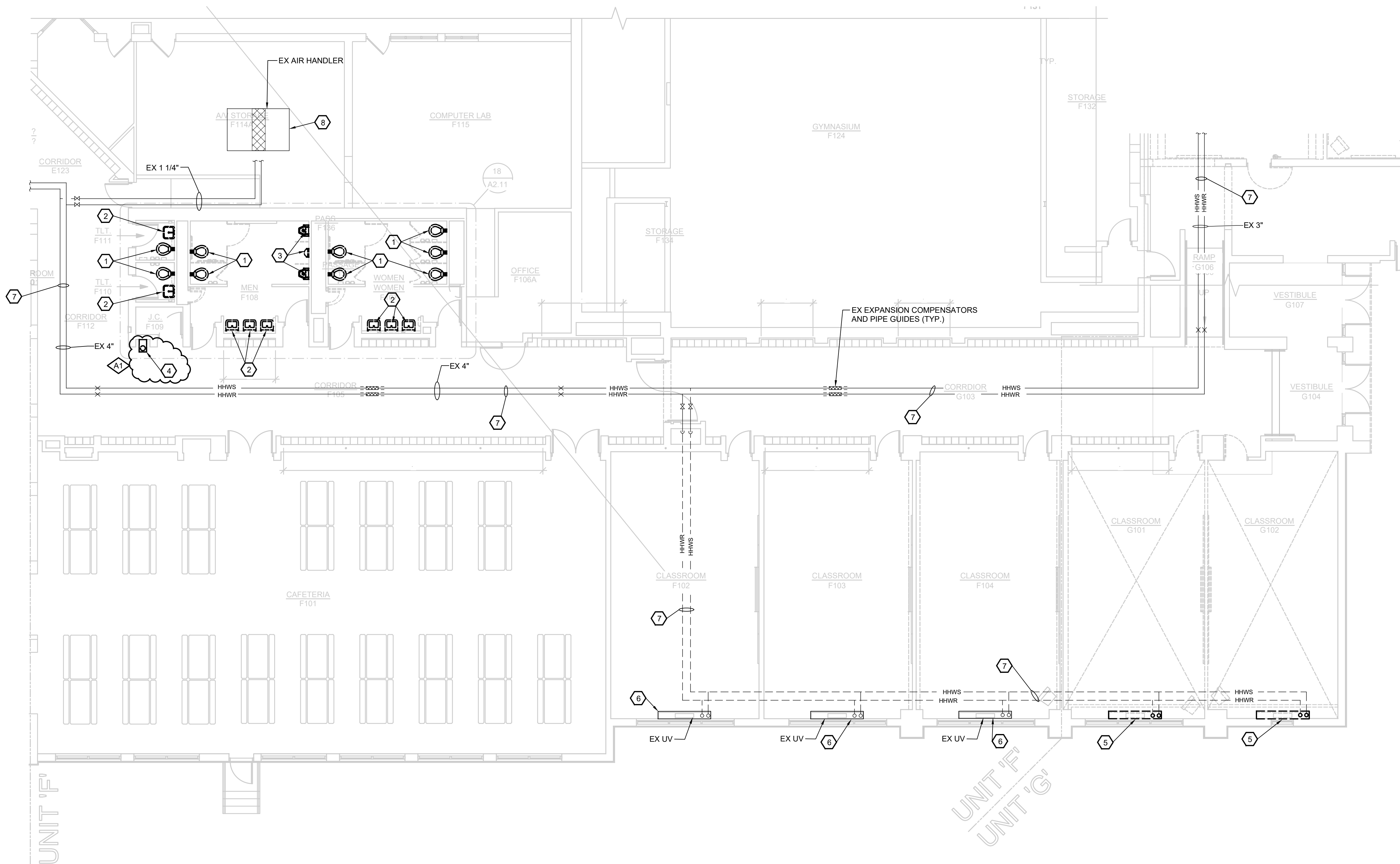
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PROJECT TITLE  
RENOVATION FOR BCPS:  
**BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.**

BAY CITY, MICHIGAN

SHEET TITLE  
**FIRST FLOOR FINISH PLAN - UNIT 'G'**

PROJECT NUMBER <b>2018040.16</b>	SHEET NUMBER
PROJECT DATE FEBRUARY 1, 2024	<b>A3.02</b>
CHECKED BY J.A.R.	



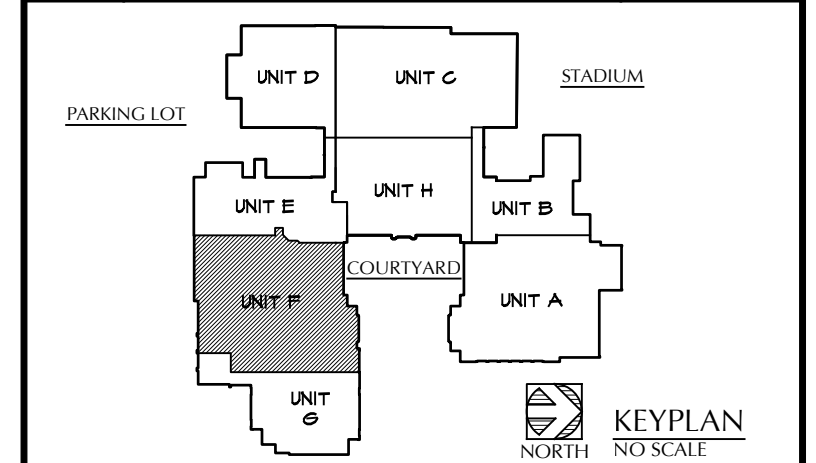
**GENERAL NOTES:**

- CONTRACTOR SHALL FIELD VERIFY ALL MATERIALS AND EQUIPMENT BEFORE STARTING WORK.
- COORDINATE ALL DEMOLITION WORK WITH NEW WORK, ESPECIALLY IN REGARDS TO NEW CONNECTIONS.
- THE INTENT OF THE DRAWING IS TO REMOVE ALL MATERIALS AND EQUIPMENT WITH A DASHED AND DARKER LINE TYPE.
- PIPING REMOVED SHALL ALSO INCLUDE THE REMOVAL OF ALL FITTINGS, SUPPORTS, AND INSULATION ASSOCIATED WITH PORTIONS OF PIPE SHOWN TO BE REMOVED.
- THE GENERAL TRADE SHALL BE RESPONSIBLE FOR REMOVAL AND PATCHING OF ANY SOFFITS, WALL SECTIONS, ETC. REQUIRED TO GAIN ACCESS TO PIPING, EQUIPMENT, ETC. TO BE REMOVED.
- COORDINATE WITH OWNER FOR ALL EQUIPMENT AND SYSTEM SHUT DOWNS AND PROVIDE OWNER WITH A MINIMUM OF 2 WEEKS NOTICE.

**KEYED NOTES:**

- REMOVE EXISTING WATER CLOSET. REMOVAL SHALL INCLUDE WATER CLOSET, FLUSH VALVE, ALL PLUMBING PIPING, ETC. EXISTING SANITARY PIPING SHALL REMAIN FOR NEW FIXTURES.
- REMOVE EXISTING LAVATORY. REMOVAL SHALL INCLUDE ALL PLUMBING PIPING CONNECTIONS, THERMOSTATIC MIXING VALVE, PROTECTIVE PIPING COVERS, ETC. EXISTING SANITARY AND DOMESTIC WATER PIPING SHALL REMAIN FOR NEW FIXTURE CONNECTIONS.
- REMOVE EXISTING URINAL. REMOVAL SHALL INCLUDE ALL PLUMBING PIPING, FLUSH VALVES, ETC. EXISTING SANITARY AND DOMESTIC WATER PIPING SHALL REMAIN FOR NEW FIXTURE CONNECTIONS.
- EXISTING ELECTRIC WATER COOLER TO BE REMOVED. EXISTING SANITARY DRAIN, DOMESTIC WATER, VENT PIPING, ETC. SHALL REMAIN. REVISE PIPING AS NECESSARY FOR NEW EWC CONNECTIONS. FIELD VERIFY EXACT LOCATIONS.
- EXISTING UNIT VENTILATOR TO BE REMOVED. REMOVE HEATING HOT WATER SUPPLY AND RETURN PIPING BACK TO BELOW FLOOR AND CAP AIR/WATER TIGHT BELOW FLOOR. PATCH OPENING IN FLOOR TO MATCH ADJACENT FLOOR MATERIAL. COORDINATE WITH ARCHITECTURAL PLANS.
- EXISTING UNIT VENTILATOR TO REMAIN.
- EXISTING HEATING HOT WATER PIPING TO REMAIN (TYP).
- EXISTING AIR HANDLER TO REMAIN.

A1	ADDENDUM NO. 1	02/19/24
NO.	REVISION	DATE



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 100 S Jefferson Ave, Suite 601  
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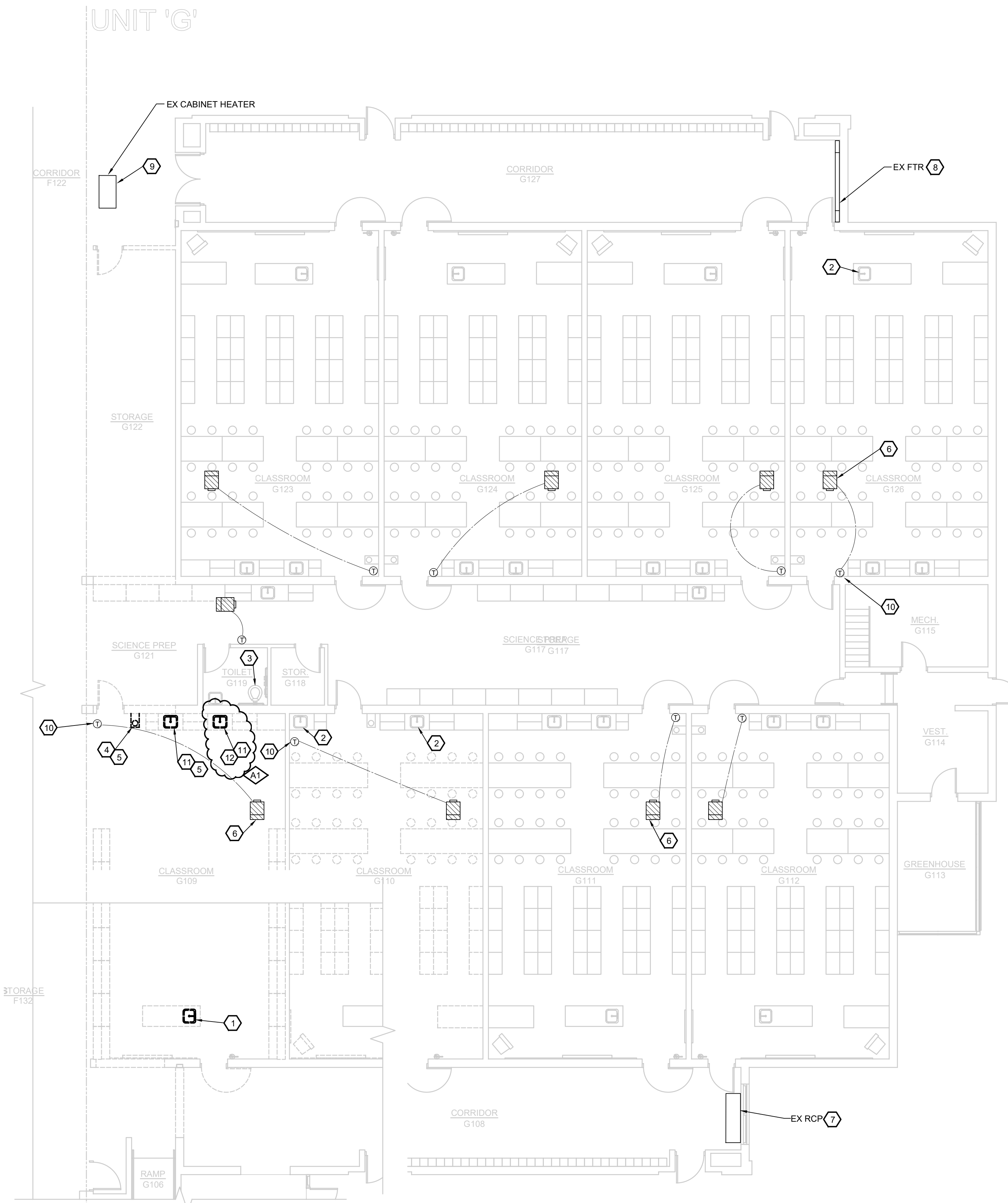
MACMILLAN ASSOCIATES  
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PROJECT TITLE  
 RENOVATION FOR BCPS:  
 BAY CITY EASTERN HIGH  
 SCHOOL AT HANDY M.S.  
 BAY CITY, MICHIGAN

SHEET TITLE  
 FIRST FLOOR PLAN  
 UNIT "F" - MECHANICAL AND  
 PLUMBING DEMOLITION

PROJECT NUMBER 2018040.16	SHEET NUMBER M1.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY GRS	

NORTH  
 FIRST FLOOR PLAN - UNIT "F" - MECHANICAL AND PLUMBING DEMOLITION  
 1/8"=1'-0"



**GENERAL NOTES:**

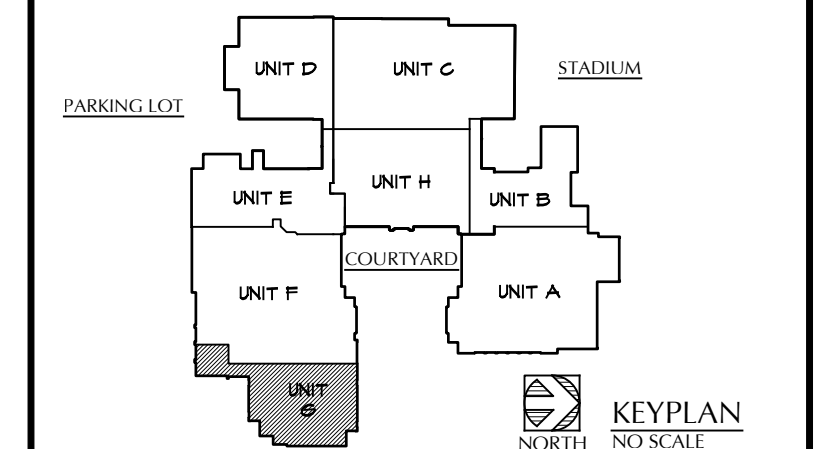
1. CONTRACTOR SHALL FIELD VERIFY ALL MATERIALS AND EQUIPMENT BEFORE STARTING WORK.
2. COORDINATE ALL DEMOLITION WORK WITH NEW WORK, ESPECIALLY IN REGARDS TO NEW CONNECTIONS.
3. THE INTENT OF THE DRAWING IS TO REMOVE ALL MATERIALS AND EQUIPMENT WITH A DASHED AND DARKER LINE TYPE.
4. PIPING REMOVED SHALL ALSO INCLUDE THE REMOVAL OF ALL FITTINGS, SUPPORTS, AND INSULATION ASSOCIATED WITH PORTIONS OF PIPE SHOWN TO BE REMOVED.
5. THE GENERAL TRADE SHALL BE RESPONSIBLE FOR REMOVAL AND PATCHING OF ANY SOFFITS, WALL SECTIONS, ETC. REQUIRED TO GAIN ACCESS TO PIPING, EQUIPMENT, ETC. TO BE REMOVED.
6. COORDINATE WITH OWNER FOR ALL EQUIPMENT AND SYSTEM SHUT DOWNS AND PROVIDE OWNER WITH A MINIMUM OF 2 WEEKS NOTICE.

**KEYED NOTES:**

- 1 REMOVE EXISTING CLASSROOM SINK. REMOVE PIPING IN CABINET BACK TO BELOW FLOOR AND CAP AIR/WATER TIGHT BELOW FLOOR. REMOVAL SHALL INCLUDE ALL ASSOCIATED PLUMBING PIPING, FAUCETS, VALVES, ETC. REPAIR FLOOR AS NECESSARY WITH MATERIAL TO MATCH ADJACENT FLOOR MATERIAL. FIELD VERIFY EXACT LOCATION OF EXISTING PLUMBING PIPING, ETC.
- 2 EXISTING SINK/LAVATORY TO REMAIN (TYP).
- 3 EXISTING WATER CLOSET TO REMAIN.
- 4 EXISTING EMERGENCY EYEWASH SHALL BE REMOVED.
- 5 REMOVE EXISTING PLUMBING PIPING, VALVES, ETC. BACK TO WALL AND/OR BELOW FLOOR AND CAP IN WALL OR BELOW FLOOR. FIELD VERIFY EXACT CAP LOCATION.
- 6 EXISTING VAV BOX TO REMAIN (TYP).
- 7 EXISTING RADIANT CEILING PANEL TO REMAIN.
- 8 EXISTING FINNED TUBE RADIATION TO REMAIN.
- 9 EXISTING CABINET HEATER TO REMAIN.
- 10 EXISTING THERMOSTAT TO REMAIN (TYP).
- 11 EXISTING SCIENCE SINK SHALL BE CAREFULLY REMOVED AND RELOCATED. REMOVAL AND RELOCATION SHALL INCLUDE SINK, FAUCET, THERMOSTATIC MIXING VALVE, ETC. SINK AND CASEWORK SHALL BE REUSED IN ROOM A106. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.
- 12 REVISE EXISTING PLUMBING PIPING FOR CONNECTION TO NEW ELECTRIC WATER COOLER.

A1 ADDENDUM NO. 1 02/19/24

NO. REVISION DATE



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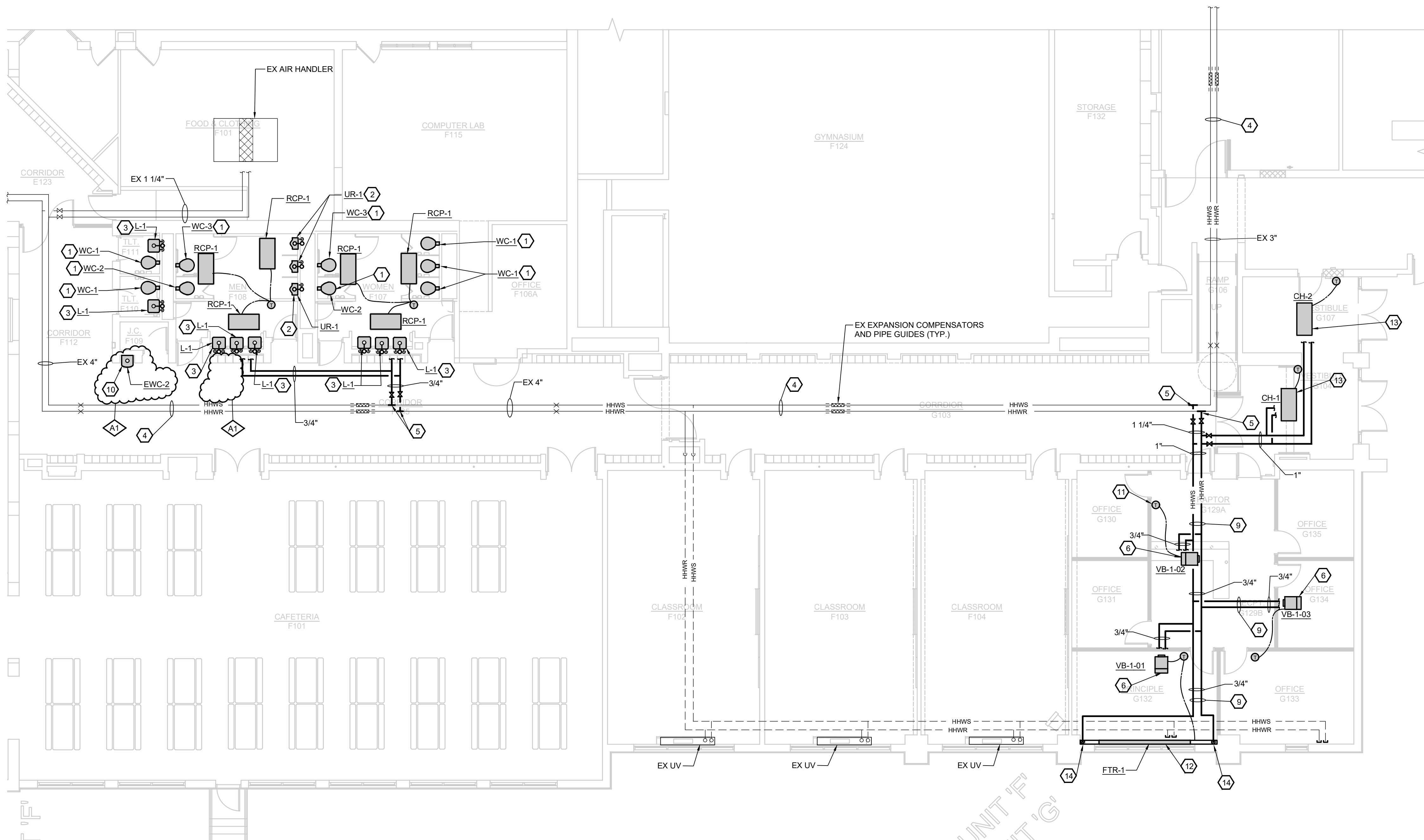


PROJECT TITLE  
RENOVATION FOR BCPS:  
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

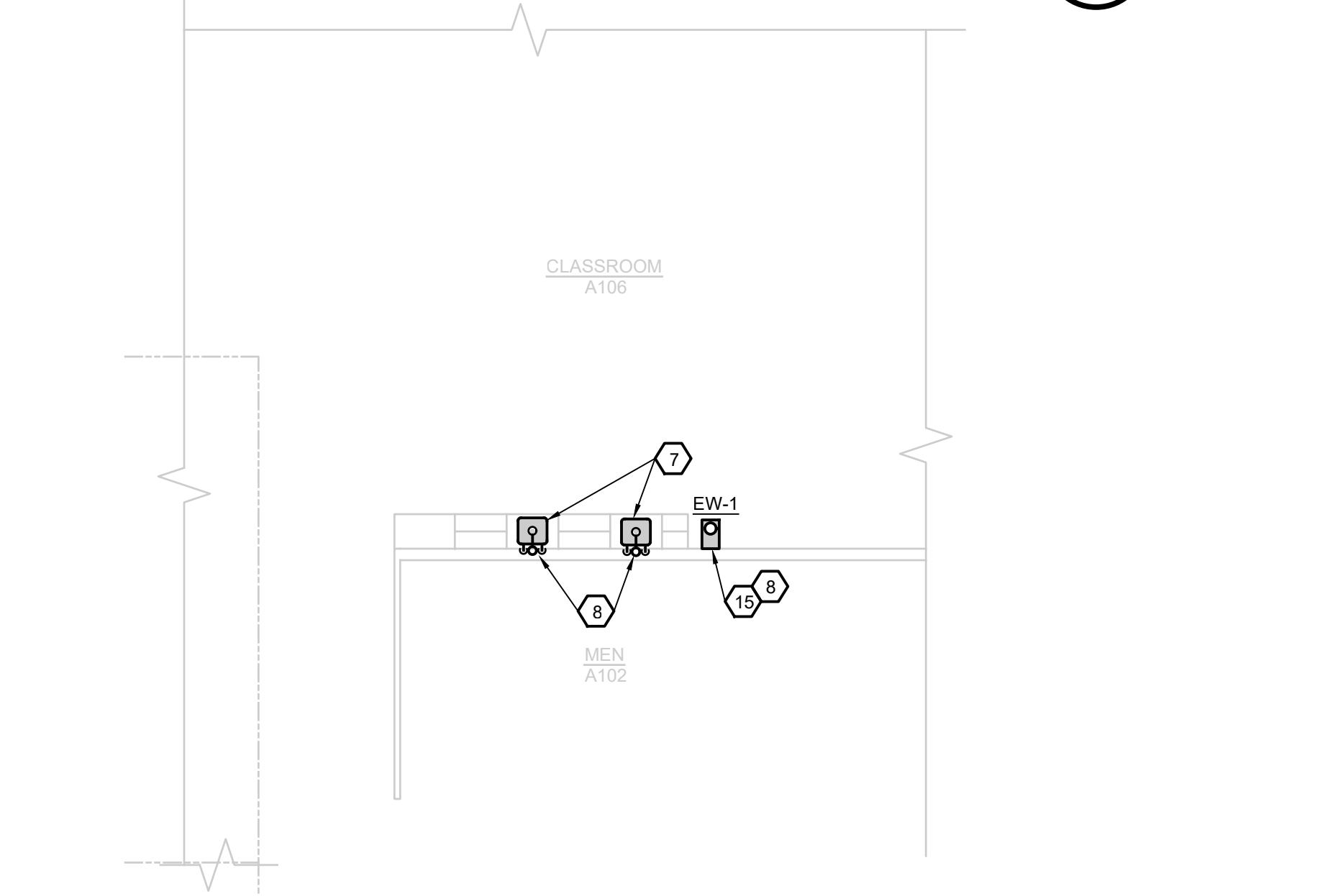
BAY CITY, MICHIGAN  
SHEET TITLE  
FIRST FLOOR PLAN  
UNIT "G" - MECHANICAL  
AND PLUMBING DEMOLITION

PROJECT NUMBER 2018040.16	SHEET NUMBER M1.02
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY GRS	

NORTH  
1/8"=1'-0"  
**FIRST FLOOR PLAN - UNIT "G" - MECHANICAL AND PLUMBING DEMOLITION**



NORTH  
 1/8"=1'-0"  
**FIRST FLOOR PLAN - UNIT "F" - PLUMBING AND HVAC PIPING REVISIONS**



1/8"=1'-0"  
**FIRST FLOOR PLAN - UNIT "A" - PLUMBING AND HVAC PIPING REVISIONS**

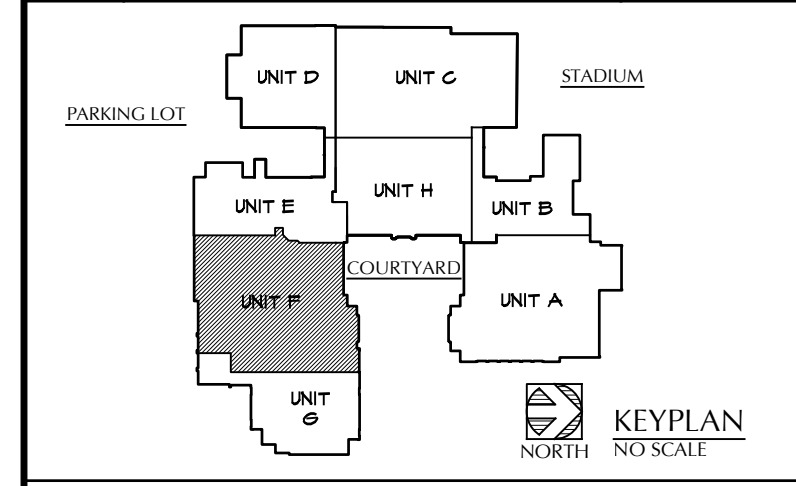
**KEYED NOTES:**

- 1 FURNISH AND INSTALL NEW WATER CLOSET. UTILIZE EXISTING PLUMBING PIPING FOR NEW CONNECTIONS. REVISE AND EXTEND PIPING AS NECESSARY FOR NEW CONNECTIONS. FIELD VERIFY EXACT LOCATIONS.
- 2 FURNISH AND INSTALL NEW URINAL. UTILIZE EXISTING PLUMBING PIPING FOR NEW CONNECTIONS. REVISE AND EXTEND PIPING AS NECESSARY FOR NEW CONNECTIONS. FIELD VERIFY EXACT LOCATIONS. UTILIZE EXISTING CARRIER AND PROVIDE NEW HARDWARE.
- 3 FURNISH AND INSTALL NEW LAVATORY. UTILIZE EXISTING PLUMBING PIPING FOR NEW CONNECTIONS. REVISE AND EXTEND PIPING AS NECESSARY FOR NEW CONNECTIONS. FIELD VERIFY EXACT LOCATIONS. UTILIZE EXISTING CARRIER AND PROVIDE NEW HARDWARE.
- 4 EXISTING HEATING HOT WATER PIPING ROUTED ABOVE CEILING TO REMAIN.
- 5 CONNECT NEW HEATING HOT WATER PIPING TO EXISTING HEATING HOT WATER PIPING MAINS IN CORRIDOR. PROVIDE SHUT-OFF VALVE AT CONNECTION. FIELD VERIFY EXACT CONNECTION LOCATION.
- 6 INSTALL NEW VARIABLE AIR VOLUME BOX ABOVE CEILING TO PROVIDE PROPER ACCESS TO CONTROLLER/CONTROLS. PROVIDE 36" OF STRAIGHT DUCT ON INLET OF VAV BOX.
- 7 NEW LOCATION OF RELOCATED SINK. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.
- 8 CONNECT TO EXISTING DOMESTIC HOT AND COLD WATER AND DRAIN PIPING IN WALL. GENERAL TRADES SHALL REMOVE EXISTING WALL AS REQUIRED TO CONNECT TO EXISTING PLUMBING IN WALL. COORDINATE WITH ARCHITECT.
- 9 ROUTE NEW HEATING HOT WATER PIPING ABOVE CEILING. ROUTE AS NECESSARY TO AVOID ALL EXISTING PLUMBING PIPING, ELECTRICAL ETC. ABOVE CEILING. FIELD VERIFY EXACT ROUTING LOCATION.
- 10 FURNISH AND INSTALL NEW ELECTRIC WATER COOLER. CONNECT NEW 1-1/2" DOMESTIC COLD WATER, 2" SANITARY DRAIN AND 1" VENT PIPING TO EXISTING PIPING IN WALL. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. FIELD VERIFY EXACT LOCATION WITH EXISTING CONDITIONS.
- 11 NEW THERMOSTAT MOUNTED 48" AFF (TYP).
- 12 FURNISH AND INSTALL NEW 12' LONG FINNED TUBE RADIATION BELOW WINDOW ON EXTERIOR WALL. HEATING HOT WATER SUPPLY AND RETURN PIPING SHALL BE ROUTED DOWN INSIDE FUR (REFER TO ARCHITECTURAL PLANS). REFER TO MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS FOR INSTALLATION.
- 13 FURNISH AND INSTALL NEW CABINET HEATER RECESSED IN CEILING SPACE. HEATING HOT WATER SUPPLY AND RETURN PIPING SHALL BE ROUTED FROM EXISTING MAINS IN CEILING SPACE TO NEW CABINET HEATER. REFER TO MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- 14 ROUTE NEW HEATING HOT WATER PIPING DOWN IN WALL TO SERVE FIN TUBE.
- 15 NEW BARRIER-FREE EYE/FACE WASH. CONNECT TO EXISTING PLUMBING PIPING IN WALL. INSTALL PER CODE AND MANUFACTURER REQUIREMENTS.

**GENERAL NOTES:**

1. MECHANICAL TRADES SHALL PROVIDE AND LOCATE CEILING AND ACCESS DOORS AS REQUIRED FOR ACCESS TO EQUIPMENT. ACCESS TO BE INSTALLED BY ARCHITECTURAL TRADES.
2. COORDINATE ALL PIPING LOCATED ABOVE THE FLOOR AND IN THE CEILING SPACE WITH ALL OTHER TRADES WITH SPECIAL ATTENTION TO THE SHEET METAL TRADES. ROUTE PIPING AS NECESSARY TO AVOID CONFLICTS WITH ALL OTHER TRADES.
3. FURNISH AND INSTALL ISOLATION BALL VALVES ON ALL BRANCH PIPING TO EACH FIXTURE OR BRANCH CONNECTION.
4. ALL PLUMBING, PIPING, ETC. SHALL BE INSTALLED PER STATE/LOCAL CODES.
5. NO PIPING SHALL BE LOCATED DIRECTLY ABOVE ELECTRICAL PANELS OR DEVICES. NO PIPING SHALL BE ALLOWED WITHIN 3'-0" OF PANELS, UNLESS PIPING IS HIGHER THAN 7'-0" ABOVE FINISHED FLOOR. VERIFY ALL PIPE ROUTING WITH ELECTRICAL TRADES.

A1	ADDENDUM NO. 1	02/19/24
NO.	REVISION	DATE



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PROJECT TITLE  
**RENOVATION FOR BCPS:  
 BAY CITY EASTERN HIGH  
 SCHOOL AT HANDY M.S.**

BAY CITY, MICHIGAN

SHEET TITLE  
**FIRST FLOOR PLAN  
 UNIT "F" - PLUMBING AND  
 HVAC PIPING REVISIONS**

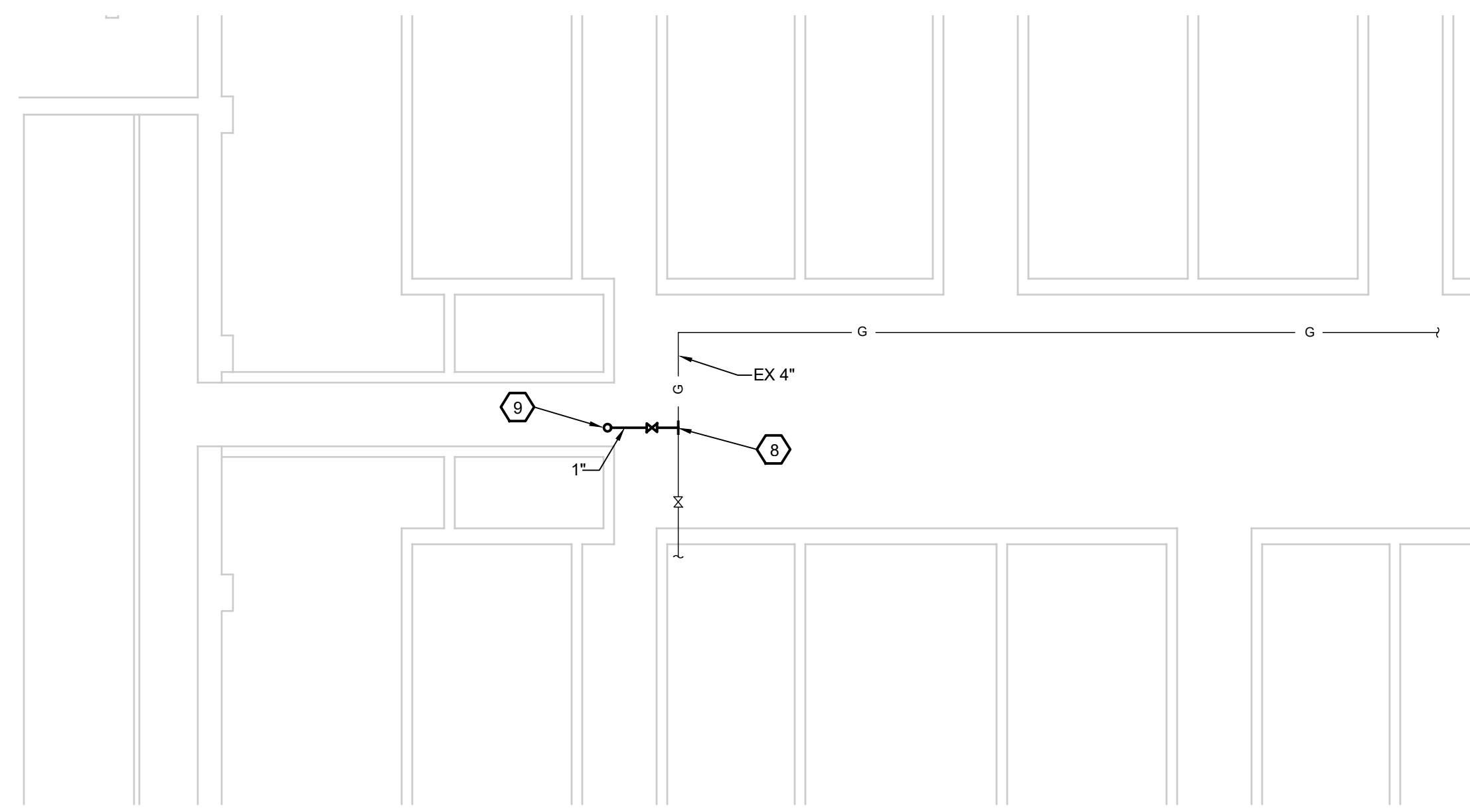
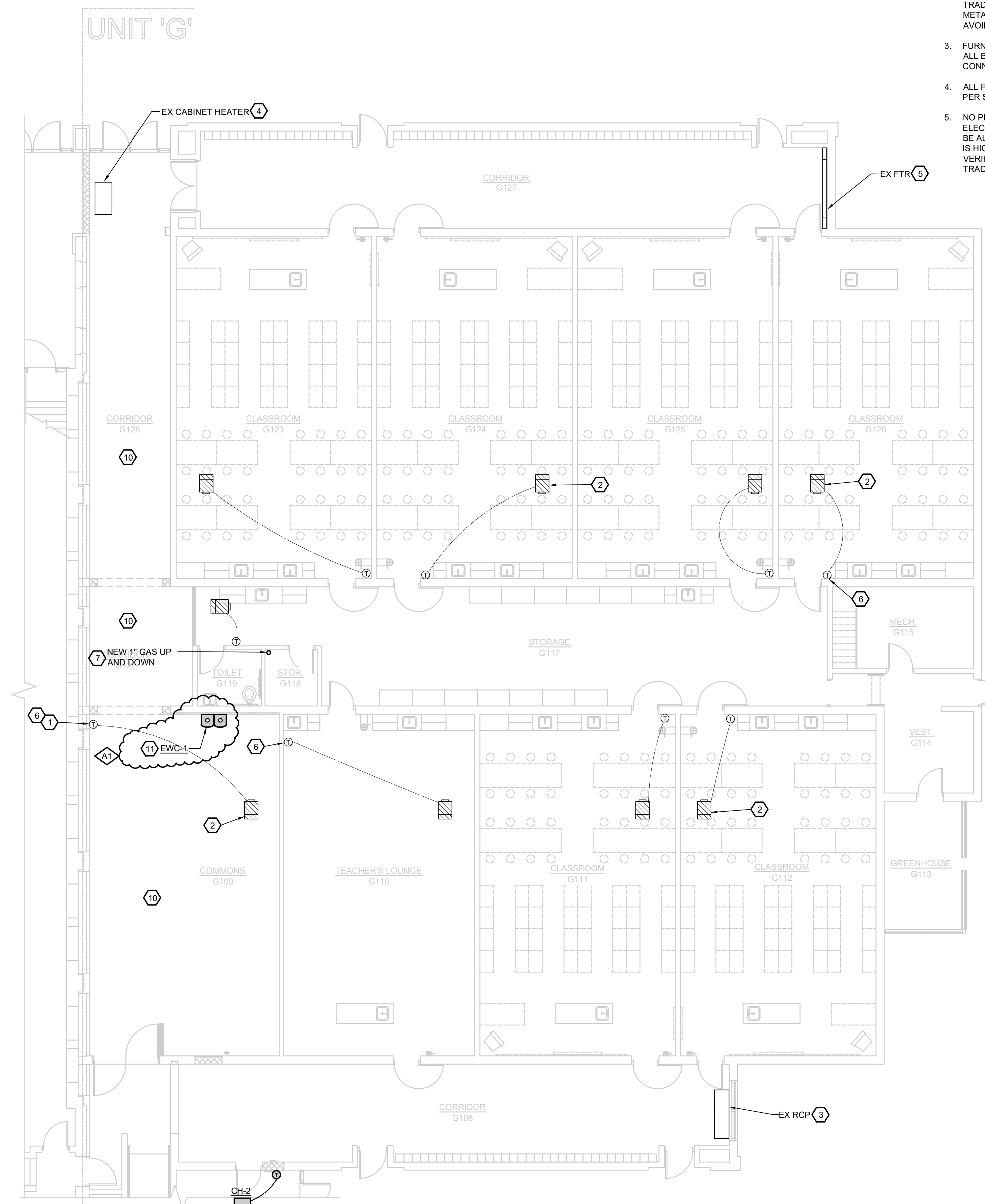
PROJECT NUMBER <b>2018040.16</b>	SHEET NUMBER <b>M2.01</b>
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY GRS	

**GENERAL NOTES:**

- MECHANICAL TRADES SHALL PROVIDE AND LOCATE CEILING AND ACCESS DOORS AS REQUIRED FOR ACCESS TO EQUIPMENT. ACCESS TO BE INSTALLED BY ARCHITECTURAL TRADES.
- COORDINATE ALL PIPING LOCATED ABOVE THE FLOOR AND IN THE CEILING SPACE WITH ALL OTHER TRADES WITH SPECIAL ATTENTION TO THE SHEET METAL TRADES. ROUTE PIPING AS NECESSARY TO AVOID CONFLICTS WITH ALL OTHER TRADES.
- FURNISH AND INSTALL ISOLATION BALL VALVES ON ALL BRANCH PIPING TO EACH FIXTURE OR BRANCH CONNECTION.
- ALL PLUMBING, PIPING, ETC. SHALL BE INSTALLED PER STATE/LOCAL CODES.
- NO PIPING SHALL BE LOCATED DIRECTLY ABOVE ELECTRICAL PANELS OR DEVICES. NO PIPING SHALL BE ALLOWED WITHIN 3'-0" OF PANELS, UNLESS PIPING IS HIGHER THAN 7'-0" ABOVE FINISHED FLOOR. VERIFY ALL PIPE ROUTING WITH ELECTRICAL TRADES.

**KEYED NOTES:**

- FURNISH AND INSTALL VANDAL PROOF PROTECTIVE COVER FOR EXISTING THERMOSTAT. FIELD VERIFY EXACT LOCATION AND SIZE OF THERMOSTAT.
- EXISTING VAV BOX TO REMAIN (TYP).
- EXISTING RADIANT CEILING PANEL TO REMAIN.
- EXISTING CABINET HEATER TO REMAIN.
- EXISTING FINNED TUBE RADIATION TO REMAIN.
- EXISTING THERMOSTAT TO REMAIN (TYP).
- NEW NATURAL GAS PIPING ROUTED FROM ROOF DOWN TO EXISTING 4" NATURAL GAS MAIN IN TUNNEL. ROUTE PIPING DOWN ALONG WALL INSIDE STORAGE ROOM EXPOSED.
- CONNECT NEW NATURAL GAS PIPING TO EXISTING NATURAL GAS PIPING IN TUNNEL. CONNECT NEW NATURAL GAS PIPING DOWNSTREAM OF EXISTING SHUT-OFF VALVE. INSTALL SHUT-OFF VALVE IN NEW BRANCH NATURAL GAS PIPING AT TAKE-OFF. FIELD VERIFY EXACT PIPING ROUTES AND NEW CONNECTION LOCATION.
- NEW NATURAL GAS PIPING ROUTED UP THROUGH ROOF FROM CONNECTION IN TUNNEL. FIELD VERIFY EXACT PIPING ROUTE WITH ALL EXISTING CONDITIONS AND ROUTE AS NECESSARY TO AVOID ALL EXISTING PLUMBING PIPING, DUCTWORK, ELECTRICAL, ETC.
- REMOVE AND REINSTALL DIFFUSERS AND GRILLES AS REQUIRED FOR NEW CEILINGS TO BE INSTALLED.
- FURNISH AND INSTALL NEW ELECTRIC WATER COOLER. CONNECT NEW 1-1/2" DOMESTIC COLD WATER, 2" SANITARY DRAIN AND 1" VENT PIPING TO EXISTING PIPING IN WALL. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. FIELD VERIFY EXACT LOCATION WITH EXISTING CONDITIONS.



**PARTIAL TUNNEL PLAN - PLUMBING AND HVAC REVISIONS**  
1/8"=1'-0"

**FIRST FLOOR PLAN - UNIT "G" - PLUMBING AND HVAC REVISIONS**  
1/8"=1'-0"

A1	ADDENDUM NO. 1	02/19/24
NO.	REVISION	DATE
<p>100 S Jefferson Ave, Suite 601 Saginaw, Michigan 48607 989 752 8107</p>		
<p>PROJECT TITLE RENOVATION FOR BCPS: BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.</p>		
<p>BAY CITY, MICHIGAN</p>		
<p>SHEET TITLE FIRST FLOOR PLAN UNIT "G" - PLUMBING AND HVAC REVISIONS</p>		
PROJECT NUMBER	SHEET NUMBER	
2018040.16	M2.02	
PROJECT DATE	CHECKED BY	
FEBRUARY 1, 2024	GRS	



PACKAGE VAV ROOFTOP GAS HEAT/ELECTRIC COOLING UNIT																								
MARK	MANUFACTURER	MODEL NO	TYPE	COOLING AIRFLOW	MIN. OUTSIDE AIR FLOW	TOTAL ESP	COOLING CAPACITY						HEATING CAPACITY					TOTAL UNIT WEIGHT	ELECTRICAL DATA					
							NOMINAL COOLING CAPACITY	TOTAL COOLING CAPACITY	EER	IEER	EAT		LAT Db	OSA DESIGN TEMP	GAS INPUT	GAS OUTPUT	GAS STAGES		EAT Db	LAT Db	UNIT POWER CONNECTION			
				°F	°F	°F					°F	MBH						MBH			RATIO	°F	°F	LBS
RTU-1	TRANE	YHC067	VAV	1,800	200	1.50	5	55	13	17.2	80	67	55	95	80	64	1:1	70	106	1000	15	25	3	480

**NOTES:**



- THE MECHANICAL TRADE SHALL VERIFY UNIT CONFIGURATION (HORIZONTAL OR DOWNFLOW) WITH SCHEDULE LISTED ABOVE AND PROJECT DESIGN DRAWINGS.
- UNITS SHALL HAVE REFERENCE ENTHALPY BASED ON ECONOMIZERS WITH POWER RELIEF EXHAUST FAN.
- FURNISH PREFABRICATED ROOF CURB FOR EACH UNIT, WITH HEIGHT OF CURB TO GIVE MINIMUM OF 18" CLEAR FROM FINISHED ROOF TO CURB CAP. THE MECHANICAL TRADE SHALL FURNISH AND SET IN PLACE/LEVEL THE ROOF CURB. THE GENERAL TRADE SHALL PERFORM ALL ROOFING, FLASHING, ETC.
- MECHANICAL TRADES SHALL FILL ALL OPEN VOIDS IN CURB (BETWEEN DECK AND BOTTOM OF RTU) WITH SPRAY FOAM INSULATION FOR ACOUSTICAL PURPOSES.
- ALL UNITS SHALL HAVE A 4" THICK HIGH EFFICIENCY THROW AWAY FILTERS.
- OUTSIDE AIR INTAKE DAMPERS SHALL BE ULTRA LOW-LEAK TYPE WITH BLADE AND JAMB SEALS.
- MOTORS SHALL BE OVERSIZED VAV PREMIUM EFFICIENCY TYPE.
- EACH RTU TO HAVE:
  - SERVICE VALVES ON LIQUID, SUCTION, AND DISCHARGE LINES.
  - THRU-THE-BASE ELECTRICAL PROVISION.
  - NON-FUSED DISCONNECT SWITCH WITH EXTERNAL HANDLE.
  - VENTILATION OVERRIDE.
  - HINGED SERVICE ACCESS.
  - CONDENSER COIL GUARDS.
  - BACNET COMMUNICATION INTERFACE.
  - SLOPED STAINLESS STEEL DRAIN PANS.
- THE MECHANICAL TRADES SHALL BE RESPONSIBLE FOR COMPLETING ALL LOW-VOLTAGE WIRING, CONDUIT, AND ASSOCIATED POWER SUPPLY NECESSARY FOR A COMPLETE AND OPERATIONAL TEMPERATURE CONTROL SYSTEM. REFER TO THE ELECTRICAL DRAWINGS FOR AVAILABLE 120 VOLT POWER LOCATIONS. THE ELECTRICAL TRADES SHALL BE RESPONSIBLE FOR PROVIDING THE MAIN POWER FEED FOR ALL MECHANICAL EQUIPMENT. REFER TO THE ELECTRICAL DRAWINGS FOR CLARIFICATION OF ELECTRICAL TRADES FURNISHED POWER.
- FURNISH 5 YEAR COMPRESSOR WARRANTY FOR ROOFTOP UNITS.
- FURNISH ONE YEAR OF COMPLETE SERVICE AND MAINTENANCE OF ROOFTOP UNITS. INCLUDE MANUFACTURER CHECK TEST AND START-UP OF ROOFTOP UNITS AND CONTROL SYSTEM. PROVIDE FACTORY AND FIELD WIRING DIAGRAMS, AND PROVIDE TECHNICAL ASSISTANCE AS REQUIRED TO ASSURE FIRST CLASS OPERATING SYSTEMS.
- FURNISH JOHNSON CONTROL COMMUNICATION INTERFACE SYSTEM (FOR EACH UNIT) WITH BACNET (VERIFY WITH TEMPERATURE CONTROLS) TO COMMUNICATION TO BE TIED INTO THE EXISTING JCI BMS.

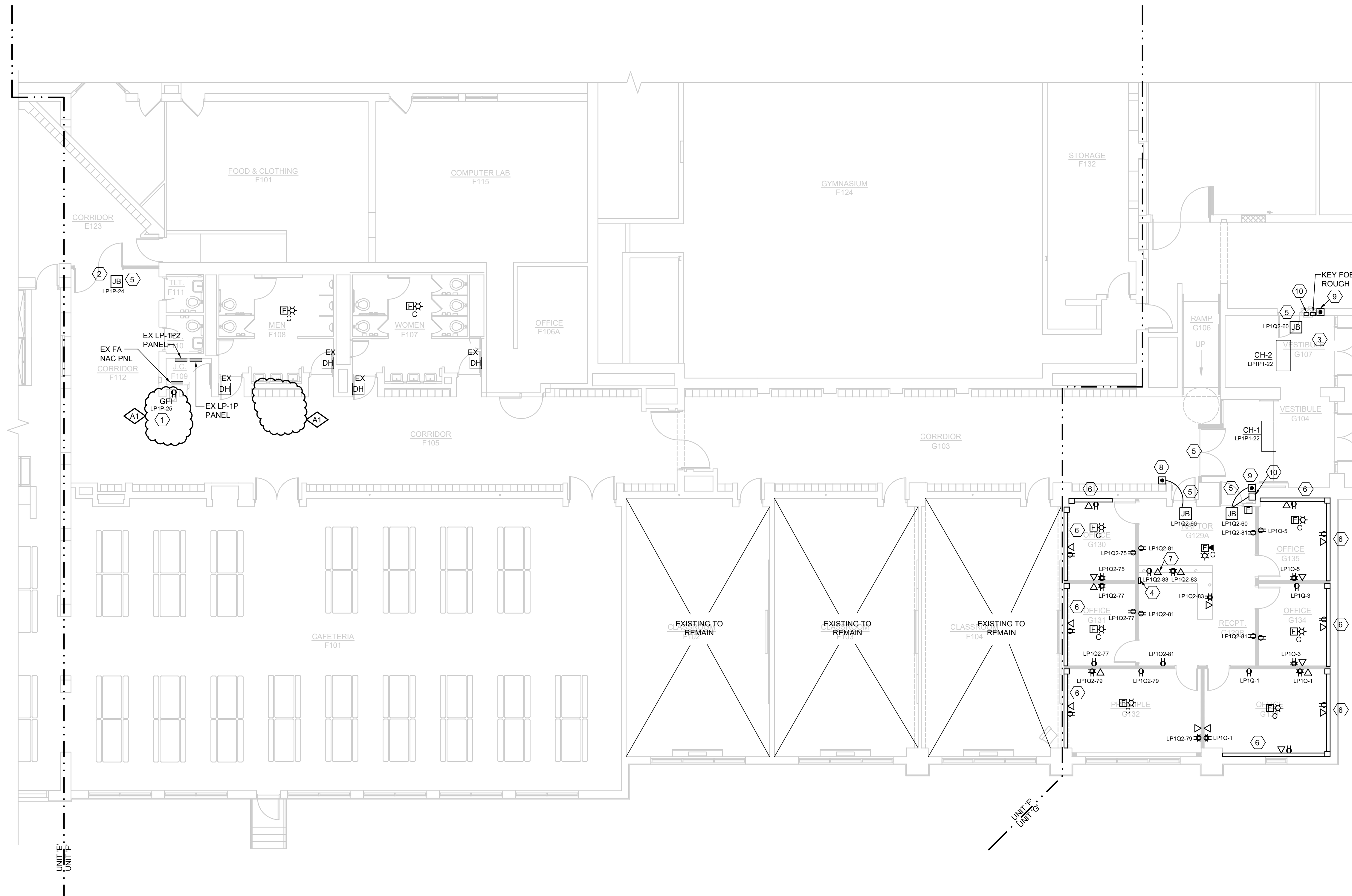
PLUMBING FIXTURE SCHEDULE			
TAG/ DESCRIPTION	MANUFACTURER	MODEL #	NOTES
WC-1	AMERICAN STANDARD	3351.101	WALL HUNG FLUSH VALVE WATER CLOSET: AFWALL MILLENNIUM WITH EVERCLEAN AND SIPHON JET ACTION, ELONGATED BOWL, OFF-FLOOR MOUNTING, 1 1/2" TOP INLET SPUD, WHITE VITREOUS CHINA, 1.6 GALLONS PER FLUSH, CONTROL FOR FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA. FITTINGS SHALL INCLUDE ZURN Z-6000AV-WS1 FLUSH VALVE WITH VACUUM BREAKERS, CENTOCO 1500CC WHITE OPEN FRONT SEAT LESS COVER, CARRIER AND HARDWARE, BOLTS, ETC.
WC-2	AMERICAN STANDARD	3043.001	FLOOR MOUNTED FLUSH VALVE WATER CLOSET: AMERICAN STANDARD #3043.001 MADERA FLOWISEA D.A. EL 1.6, 16 1/2" HIGH WATER SAVER TOILET WITH SIPHON JET ACTION, ELONGATED BOWL, WHITE VITREOUS CHINA, 1 1/2" TOP SPUD, 1.6 GALLONS PER FLUSH, FITTINGS SHALL INCLUDE ZURN Z-6000AV-WS1 FLUSH VALVE WITH VACUUM BREAKER, CENTOCO 1500 CC WHITE OPEN FRONT SEAT, LESS COVER, BOLT CAPS, ETC. CONTROL FOR FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREA.
WC-3	AMERICAN STANDARD	3043.001	FLOOR MOUNTED FLUSH VALVE WATER CLOSET (BARRIER FREE): AMERICAN STANDARD #3043.001 MADERA FLOWISEA D.A. EL 1.6, 16 1/2" HIGH WATER SAVER TOILET WITH SIPHON JET ACTION, ELONGATED BOWL, WHITE VITREOUS CHINA, 1 1/2" TOP SPUD, 1.6 GALLONS PER FLUSH, FITTINGS SHALL INCLUDE ZURN Z-6000AV-WS1 FLUSH VALVE WITH VACUUM BREAKER, CENTOCO 1500 CC WHITE OPEN FRONT SEAT, LESS COVER, TO GIVE 17" HIGH TOP OF SEAT ABOVE FINISHED FLOOR FOR BARRIER FREE USE, BOLT CAPS, ETC. INSTALLATION SHALL MEET A.D.A. REQUIREMENTS. CONTROL FOR FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREA.
UR-1	AMERICAN STANDARD	6590.001	WALL HUNG, WASHBROOK URINAL WITH EVERCLEAN, WHITE VITREOUS CHINA WASH OUT WATER SAVER URINAL WITH 3/4" TOP INLET SPUD, OUTLET THREADED 2" FEMALE, 1.0 GALLON PER FLUSH, CONTROL FOR FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA. FITTINGS SHALL INCLUDE ZURN Z-6003AV-WS1 FLUSH VALVE WITH VACUUM BREAKER, ZURN CONCEALED ARM CARRIER WITH FLOOR SUPPORT.
L-1	AMERICAN STANDARD	0356.421	WALL HUNG LAVATORY, LUCERNE, NOMINAL 20"x18" WHITE VITREOUS CHINA, FRONT OVERFLOW, FAUCET LEDGE, "D" SHAPED BOWL, SELF DRAINING DECK, ONE CENTER HOLE PUNCHING CONSTRUCTED FOR CONCEALED ARM CARRIER AND ADA COMPLIANT. INSTALL THERMOSTATIC MIXING VALVE THAT IS ASSE 1070 LISTED UNDER EACH LAVATORY AND ADJUST TO 105 DEGREE HOT WATER MAXIMUM AT FAUCET. FITTINGS SHALL INCLUDE ZURN Z-7440-XL CENTERSET FAUCET WITH RIGID SPOUT, SINGLE LEVER MANUAL FAUCET WITH RIGID SPOUT AND COLOR INDEXES, 0.5 GPM FLOW DEVICE, GRID DRAIN, P-TRAP, WHEEL HANDLE STOPS AND TAILPIECE, ALL POLISHED CHROME FINISH, UNDERSINK PROTECTIVE PIPE COVERS, ZURN CONCEALED ARM CARRIER WITH FLOOR SUPPORT, ETC.
EWC-1	ELKAY	LZSTL8WSSK	H/LO ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION AND FILTER: ELKAY LZSTL8WSSK WALL MOUNTED BARRIER FREE BOTTLE FILLING STATION, & BI-LEVEL HIGH EFFICIENCY, FILTERED, 8 GPH STAINLESS CHILLING CAPACITY OF 8.0GPH FEATURES SHALL INCLUDE HANDS FREE, VISUAL FILTER MONITOR, FILTERED, LAMINAR FLOW, ANTIMICROBIAL, REAL DRAIN, FURNISHED WITH FLEXI-GUARD BUBBLER, ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION, CORD WITH 3 PRONG PLUG, 115 VOLT, 370 WATTS, 6 AMP. PROVIDE ZURN Z OR EQUAL WALL HANGER WITH FLOOR SUPPORT. UNIT SHALL BE MOUNTED AT HEIGHT TO MEET BARRIER FREE AND ADA REQUIREMENTS. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
EWC-2	ELKAY	LZS8WSSK	ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION AND FILTER: ELKAY LZS8WSSK WALL MOUNTED BARRIER FREE BOTTLE FILLING STATION, FILTERED, 8GPH, STAINLESS. CHILLING CAPACITY OF 8 GPH. FEATURES SHALL INCLUDE HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR, FILTERED, ANTIMICROBIAL, FURNISHED WITH FLEXI-GUARD BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION, CORD WITH 3 PRONG PLUG, 115 VOLT, 370 WATTS, 6 AMP. PROVIDE ZURN Z OR EQUAL WALL HANGER WITH FLOOR SUPPORT. UNIT SHALL BE MOUNTED AT HEIGHT TO MEET BARRIER FREE AND ADA REQUIREMENTS. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
EW-1	GUARDIAN	GBF1721	BARRIER FREE EYE/FACEWASH. PROVIDE WITH G6020 THERMOSTATIC MIXING VALVE MEETING ANSI Z358.1. INSTALL TO MEET OSHA AND ADA REQUIREMENTS, PROVIDE WITH ANSI COMPLIANT SIGN.
NON-PENETRATING PIPE SUPPORT	MIRO	3-RS4-7	NON-PENETRATING ROOF PIPE SUPPORT SHALL BE FURNISHED AND INSTALLED ON ALL NATURAL GAS PIPING ROUTED ON GRADE. INSTALL PIPE SUPPORT PER STATE AND LOCAL CODE REQUIREMENTS.
UNDER LAVATORY PROTECTIVE PIPE COVERS	ZURN	Z8946	TRAP AND STOP/RISER INSULATED COVERS SHALL BE FURNISHED AND INSTALLED ON ALL EXPOSED PIPING AND VALVES BELOW LAVATORIES TO MEET ADA REQUIREMENTS. THIS SHALL INCLUDE DRAIN, CW AND HW PIPING, FITTINGS, VALVES, ETC.
THERMOSTATIC MIXING VALVE		ASSE 1070	THERMOSTATIC MIXING VALVE SHALL BE FURNISHED AND INSTALLED UNDER EACH NEW LAVATORY, HAND SINK, COUNTERTOP SINK AND SIMILAR FIXTURES. VALVE SHALL BE LISTED ASSE 1070, 1/2" SIZE WITH STRAINER AND CHECK-STOPS. PIPE TO HOT WATER SIDE OF FAUCET AND ADJUST TO PROVIDE 105F HOT WATER AT FAUCET.

EXHAUST FAN SCHEDULE														
MARK	SERVING	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN. W.G.)	TYPE	MOTOR	BHP	HP	FLA	VOLTS/PH/Hz	MANUFACTURER MODEL NUMBER	SONES	WEIGHT (LBS)	DIMENSIONS	NOTES
EF-1	TOILET ROOMS	675	1.25	DOWNBLAST	DIRECT DRIVE	0.35	1/2	6.6	120/1/60	GREENHECK G-100HP-VG	13.8	43	24"DIA x 36" H	SEE BELOW

**NOTES:**

- MOTOR TO BE EC MOTOR, DESIGNED FOR FAN APPLICATIONS (GREENHECK VARI-GREEN WITH DIAL ON MOTOR CONTROL).
- NEMA-1 DISCONNECT SWITCH SHALL BE PROVIDED AND FACTORY-MOUNTED BY FAN MANUFACTURER. WIRING IS PROVIDED FROM MOTOR TO HANDY BOX.
- PROVIDE BACKDRAFT DAMPER FOR INSTALLATION DOWNSTREAM OF FAN IN DUCTWORK.
- FAN SHALL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS.

A1	ADDENDUM NO. 1	02/19/24
NO.	REVISION	DATE
 		
PROJECT TITLE <b>RENOVATION FOR BCPS:          BAY CITY EASTERN HIGH          SCHOOL AT HANDY M.S.</b>		
BAY CITY, MICHIGAN		
SHEET TITLE <b>MECHANICAL SCHEDULES</b>		
PROJECT NUMBER	SHEET NUMBER	
2018040.16	<b>M4.01</b>	
PROJECT DATE		
FEBRUARY 1, 2024		
CHECKED BY		
GRS		



**POWER & SYSTEMS WIRING METHODS**

1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT. PROVIDE ISOLATED GROUND CONDUCTOR FOR THE AV CIRCUITS AS NOTED AND SPECIFIED.
3. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.
4. ALL NEW RECEPTACLES AND VOICE/DATA OUTLETS SHALL BE MOUNTED AT A MINIMUM OF 16" TO THE BOTTOM OF BOX ABOVE THE FINISHED FLOOR, UNLESS NOTED OTHERWISE. 18" IS ONLY AN ACCEPTABLE MOUNTING HEIGHT PENDING FOR MASONRY COARSE LINE INSTALLATION. COORDINATE ALL DEVICE HEIGHTS WITH ARCHITECT.
5. ELECTRICAL TRADES SHALL CONFIRM VOICE/DATA AND RECEPTACLE LOCATION WITH THE OWNER'S FURNITURE LAYOUTS AND INSTALLATION.
6. GENERAL PURPOSE DUPLEX RECEPTACLES SHALL BE WHITE, GRAY OR IVORY AS ADVISED BY THE ARCHITECT.
7. FIRE ALARM WIRING INSTALLED ABOVE THE FINISHED CEILING IS ACCEPTABLE TO USE THE FREE-AIR METHOD. USE "J" HOOKS OR "D" RINGS FOR SUPPORT METHODS. PROVIDE PLENUM RATED CABLE FOR THE ENTIRE PROJECT.
8. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 NATIONAL FIRE ALARM CODE, BUREAU OF FIRE SERVICES, 2003 MICHIGAN BARRIER FREE DESIGN MANUAL AND OTHER APPLICABLE CODES. MOUNTING HEIGHT REQUIREMENTS:
  - WALL MOUNTED AUDIO/VISUAL UNITS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. CEILING MOUNTED DEVICES ARE ACCEPTABLE AND ARE NOTED ON THE DRAWINGS.
  - MANUAL PULL STATIONS SHALL BE MOUNTED 48" MAXIMUM TO THE TOP OF BOX FROM THE FINISHED FLOOR.
9. ALL BRANCH DEVICES SHALL USE A 4" SQUARE STEEL BOX WITH A SINGLE GANG TRIM RING FOR INTERIOR GYPSUM BOARD WALLS. MASONRY BOXES ARE ACCEPTABLE FOR MASONRY WALL INSTALLATION. NON-METALLIC BOXES ARE NOT ACCEPTABLE FOR THIS PROJECT.
10. J-HOOKS AND D-RINGS SHALL BE USED FOR THE LOW-VOLTAGE SYSTEM WIRING INCLUDING BUT NOT LIMITED TO: FIRE ALARM, VOICE, DATA, PA, LIGHTING CONTROL, ETC.
11. USE MINIMUM 1" CONDUIT SIZE FOR VOICE/DATA OUTLET DROPS. EXTEND THE CONDUIT TO THE ADJACENT CORRIDOR ACCESSIBLE CEILING SPACE.
12. MC CABLE IS ONLY ACCEPTABLE FOR FINAL LIGHT FIXTURE CONNECTIONS ABOVE THE LAY-IN CEILING ON THIS PROJECT, UNLESS SPECIFICALLY NOTED.
13. RECEPTACLES, VOICE AND DATA OUTLET LOCATIONS SHOWN IN THE OFFICES, WORKROOM, CONFERENCE/LOUNGE AREA ARE BASED ON WORKSTATION CASEWORK SHOWN AND THE ANTICIPATED OFFICE FURNITURE ARRANGEMENTS. CONFIRM THE FINAL LOCATIONS DURING THE ROUGH-IN PHASE.
14. SSI = SIMONI SYSTEMS, INC. AUDIO AND VIDEO DESIGN/INSTALLER.
15. REFER TO SOUND SYSTEM DRAWINGS FOR SPECIFIC ROUGH-IN REQUIREMENTS. DO NOT RELY SOLELY ON THE ELECTRICAL DRAWINGS.
16. ALL NEW FIRE ALARM DEVICES SHALL BE INSTALLED AND TIED INTO EXISTING FIRE ALARM SYSTEM.
17. PA SPEAKER SYSTEM WIRING AND ASSOCIATED EQUIPMENT IS BY OWNER.
18. ALL PHONE AND DATA DESIGN IS BY OWNER.
19. ALL SECURITY SYSTEM DESIGN IS BY OWNER.
20. F107 AND F108 RESTROOM DOOR HOLDERS TO REMAIN.

**KEYED NOTES**

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW GFI RATED RECEPTACLES FOR ELECTRIC WATER COOLERS.</li> <li>2. PROVIDE A FIRE ALARM SIGNAL TO THE DOOR LOCKS. THE DESIGN INTENT IS TO AUTOMATICALLY UNLOCK THE DOORS UPON A SIGNAL FROM THE FIRE ALARM SYSTEMS. COORDINATE WITH THE DOOR HARDWARE INSTALLER</li> <li>3. PROVIDE AIPHONE INTERCOM STATION. PROVIDE CONTROL CABLING TO DOOR HARDWARE ELECTRIC LOCK FROM PUSH BUTTON IN OFFICE</li> <li>4. PROVIDE AI PHONE INTERCOM STATION WITH DOOR LOCK BUTTON TO COORDINATE WITH STATION IN VESTIBULE</li> <li>5. PROVIDE A 1/2" CONDUIT TO THE DOOR FRAME WITH 120 VOLT POWER IN A JUNCTION BOX NEAR THE DOOR. COORDINATE WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE.</li> <li>6. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW 4000 SERIES WIRE MOLD.</li> <li>7. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL 1" CONDUIT IN ACCESSIBLE CEILING SPACE FOR FUTURE DOOR CONTROLS</li> </ol> | <ol style="list-style-type: none"> <li>8. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ADA PUSHBUTTON IN NEW GYP WALL.</li> <li>9. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL RECESSED ADA PUSHBUTTON.</li> <li>10. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW INTERCOM AND CAMERA DEVICE ROUGH-IN</li> </ol> |
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**FIRST FLOOR PLAN - UNIT 'F' & 'G' - REVISED POWER AND SYSTEMS**  
 1/8"=1'-0"

A1	ADDENDUM NO. 1	02/19/24
NO.	REVISION	DATE

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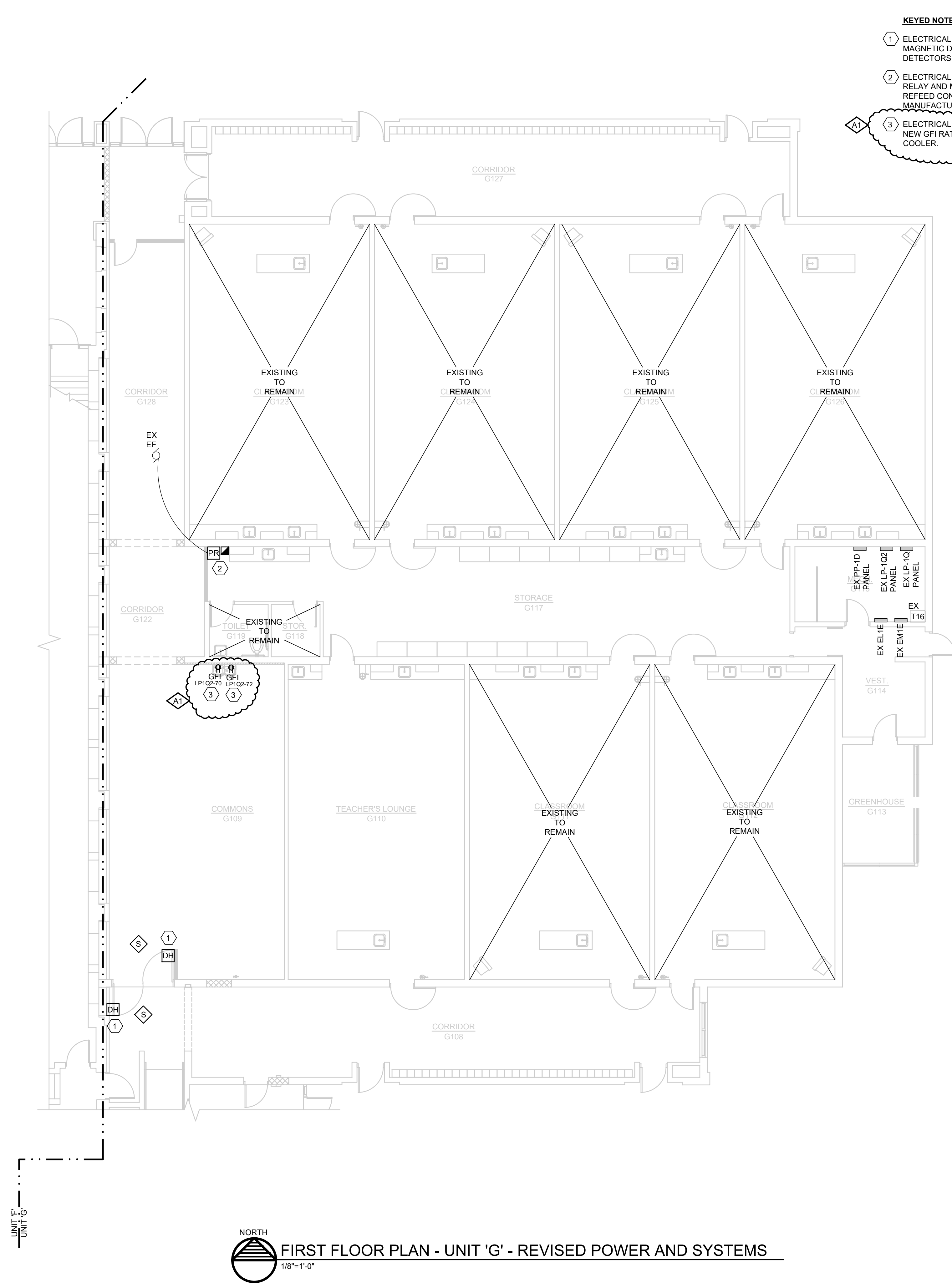
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PROJECT TITLE  
 RENOVATION FOR BCPS:  
**BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.**  
 BAY CITY, MICHIGAN

SHEET TITLE  
**FIRST FLOOR PLAN - UNIT 'F' & 'G' - REVISED POWER AND SYSTEMS**

PROJECT NUMBER <b>2018040.16</b>	SHEET NUMBER <b>E2.03</b>
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY JWF	



- KEYED NOTES**
- 1 ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL MAGNETIC DOOR HOLDER CONTROLLER BY LOCAL SMOKE DETECTORS THROUGH FIRE ALARM SYSTEM.
  - 2 ELECTRICAL CONTRACTOR SHALL REINSTALL POWER RELAY AND MANUAL MOTOR STARTER IN NEW LOCATION. REFEED CONNECTION TO EXHAUST FAN AND WIRE PER MANUFACTURERS SPECIFICATIONS IF NECESSARY.
  - 3 ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW GFI RATED RECEPTACLES FOR ELECTRIC WATER COOLER.

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20. F107 AND F108 RESTROOM DOOR HOLDERS TO REMAIN.

A1	ADDENDUM NO. 1	02/19/24
NO.	REVISION	DATE

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PROJECT TITLE  
RENOVATION FOR BCPS:  
**BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.**

BAY CITY, MICHIGAN

SHEET TITLE  
**FIRST FLOOR PLAN - UNIT 'G' - REVISED POWER AND SYSTEMS**

PROJECT NUMBER <b>2018040.16</b>	SHEET NUMBER <b>E2.04</b>
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY JWF	

**FIRST FLOOR PLAN - UNIT 'G' - REVISED POWER AND SYSTEMS**  
 1/8"=1'-0"

