

# Evansville Fire Department Station 16 Renovations

Evansville Fire Department Station 16  
2801 Washington Avenue  
Evansville, Indiana 47714

IFB - 011 - 02 - 2024

Tony Knight, Fire Chief

ARCHITECT / ENGINEER:



Indiana Office:  
P.O. Box 864, Newburgh, IN 47629  
(812) 453 - 9034

Illinois Office:  
P.O. Box 133, Marion, IL 62959  
(618) 926 - 4578

## Owner:

City of Evansville Board of Public Works  
1 NW Martin Luther King, Jr. Blvd., Rm. 321  
Evansville, Indiana 47708

City of Evansville Purchasing Department  
Dachenae Streeter, Director of Purchasing  
1 NW Martin Luther King, Jr. Blvd., Rm. 323  
Evansville, Indiana 47708

Evansville Fire Department  
Tony Knight, Fire Chief  
550 S.E. Eighth Street  
Evansville, Indiana 47713

EFD Facilities Management:  
Jarrod Brown, Deputy Chief - Logistics & Finance  
John Hogg, Transition Manager  
Dustin Cline, Facilities Manager

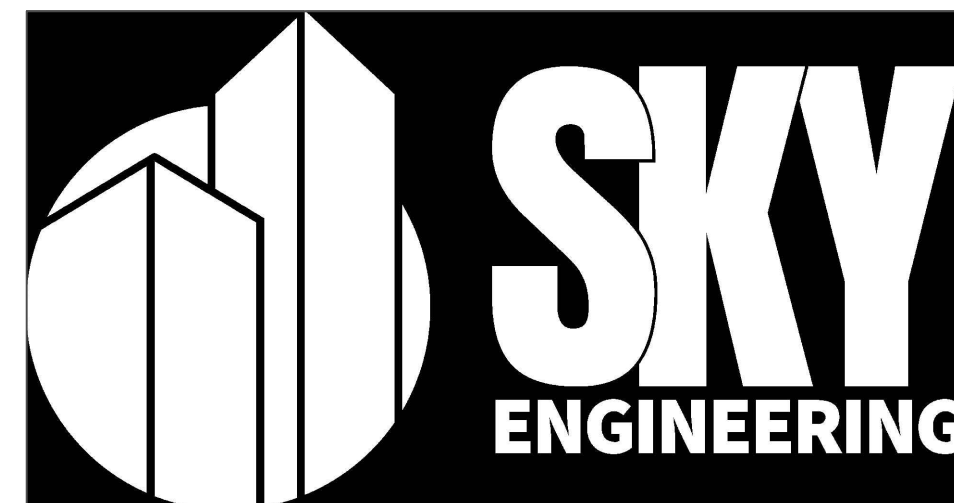
## Scope of Work

The work of this project is to divide the existing dormitory space into multiple semi-private bunk spaces, expand the existing fitness area, modify the existing Battalion Chief toilet room to include a new corner shower unit (Add Alternate), and provide electrical and venting for a future clothes dryer in the Mechanical Room (Add Alternate).

## Index of Drawings:

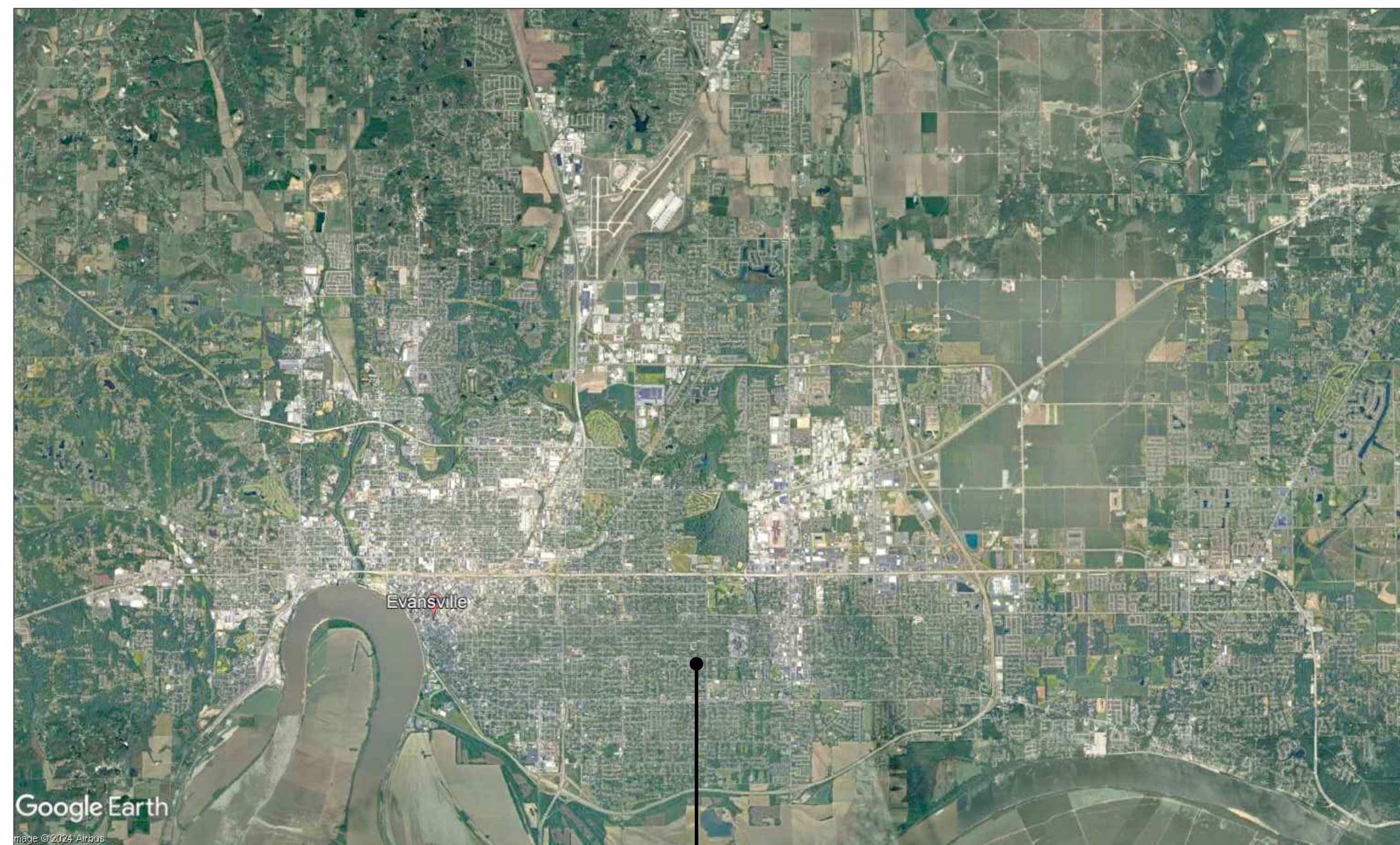
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- A-2.1 Enlarged Improvement Floor Plan
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- E-1.1 Electrical Power Plan
- E-2.0 Electrical Lighting Plan

CONSULTING ENGINEER:



Owensboro Office:  
2625 Frederica Drive - Suite #1b  
Owensboro, KY 42301  
(270) 784 - 0722

www.skyengineeringmep.com



EFD Station 16  
Evansville, Indiana

1 Area Location Plan  
Not to Scale

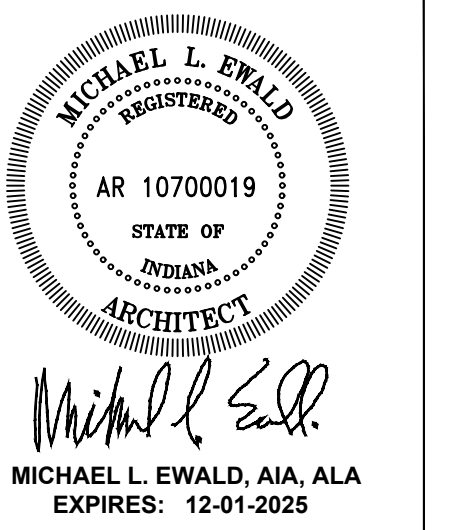


## Bids:

Base Bid - Entire Project

- Alternate Bid 1: (ADD) Battalion Chief shower installation work.
- Alternate Bid 2: (ADD) Clothes dryer electrical and vent work.  
(Dryer unit by Owner)

All bids submitted shall be in accordance with the requirements for public works projects in the State of Indiana, as well as the specific project and bidding requirements set forth by the City of Evansville in the invitation for bids, IFB - 011 - 02 - 2024.



**EFD Station 16 Renovations**  
 Evansville Fire Department  
 Evansville, Indiana  
 Tony Knight, Fire Chief

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**EFD Station 16  
Renovations  
Cover Sheet**

SHEET NO:  
**G-1.0**

IFB 011-02-2024  
Issue for Bid  
November 15, 2024



# General Notes

- Door openings shall be located either centered in the opening, or 6" from the nearest adjacent perpendicular wall, unless noted otherwise.
- Dimensions are shown to face of new framing or existing finished wall.
- Perform all demolition work with caution as to not damage or disturb existing finishes to remain. Replace or repair any damage.
- The Owner will move and store existing furniture as required to facilitate demolition and new construction.
- The facility will remain in continuous service and responding to emergency calls. Isolate service disruptions and work to the designated work areas only.
- Coordinate any power disruptions with the Owner at least 48 hours in advance. Schedule work to minimize disruptions to the greatest extent possible.
- Field verify all dimensions and existing conditions. Notify the Architect and/or Engineer of any discrepancies.
- Locate and isolate all utilities prior to the start of demolition. Protect existing utilities scheduled to remain, especially fire alerting and radio communication devices, from damage during the project.
- Existing power and water on the site can be used. If additional is needed, it is the responsibility of the contractor to provide additional as needed. The Contractor shall provide temporary toilet facilities for use by workers on the site.

# Facility Operation

Fire Station #16 shall remain in full operation for the response to all emergent and non-emergent calls. The Contractor shall work closely with the EFD Facilities Manager and Deputy Chief of Logistics and Finance to coordinate any service disruptions, required relocations, and scheduling.

EFD will develop a plan for temporary dormitory space during this project. The remainder of the facility shall remain in full, normal operation.

Contractors shall be diligent in keeping the existing apparatus bay drives, the Battalion Chief's quarters, department fuel pumps, and sufficient firefighter parking space available at all times. In no case shall Contractors obstruct the ability for emergency vehicles to respond from the facility at a moment's notice or return to the facility.

The Baby Box shall remain in full operation throughout the project. Protect from damage as required.

Fire Station #16 will remain in operation 24 hours per day unless indicated otherwise by the Deputy Chief.

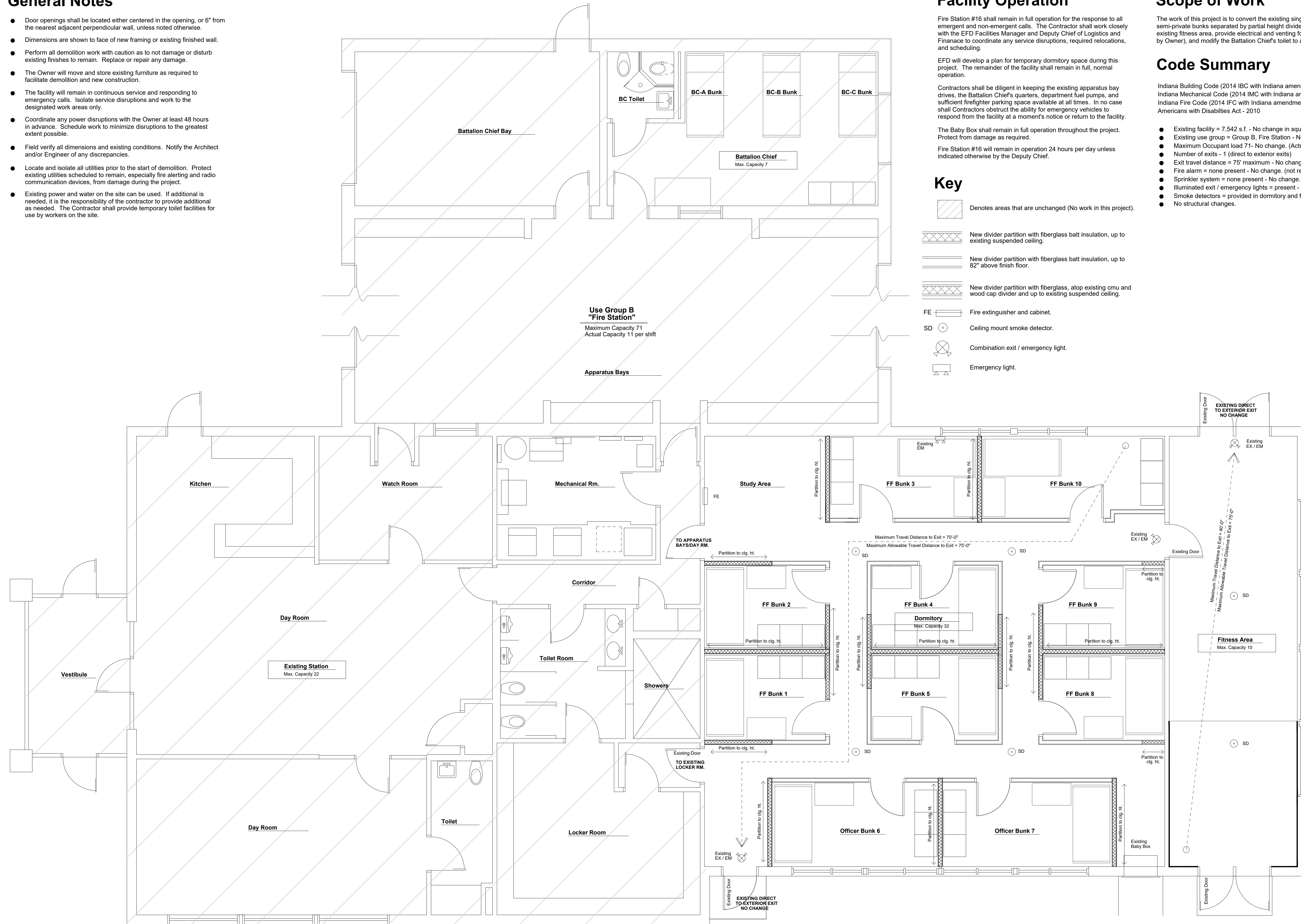
# Scope of Work

The work of this project is to convert the existing single dormitory space into semi-private bunks separated by partial height divider partitions, expand the existing fitness area, provide electrical and venting for a clothes dryer (dryer by Owner), and modify the Battalion Chief's toilet to add a corner shower unit.

# Code Summary

Indiana Building Code (2014 IBC with Indiana amendments)  
 Indiana Mechanical Code (2014 IMC with Indiana amendments)  
 Indiana Fire Code (2014 IFC with Indiana amendments)  
 Americans with Disabilities Act - 2010

- Existing facility = 7,542 s.f. - No change in square footage.
- Existing use group = Group B, Fire Station - No change.
- Maximum Occupant load 71 - No change. (Actual capacity 11 per shift)
- Number of exits - 1 (direct to exterior exits)
- Exit travel distance = 75' maximum - No change.
- Fire alarm = none present - No change. (not required)
- Sprinkler system = none present - No change. (not required)
- Illuminated exit / emergency lights = present - No change / provided.
- Smoke detectors = provided in dormitory and fitness area - No change.
- No structural changes.



**1** Life-Safety Floor Plan  
 1/4" = 1'-0" North

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MICHAEL L. EWALD  
 REGISTERED ARCHITECT  
 AR 10700019  
 STATE OF INDIANA  
 MICHAEL L. EWALD, AIA, ALA  
 EXPIRES: 12-01-2025

**EFD Station #16 Renovations**  
 2801 Washington Avenue  
 Evansville, IN 47714  
 Fire Chief Tony Knight

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Life-Safety Plan

SHEET NO:  
**A-1.0**

## General Notes

- Perform all demolition work with caution as to not damage or disturb existing finishes to remain. Replace or repair any damage.
- The Owner will move and store existing furniture as required to facilitate demolition and new construction.
- The facility will remain in continuous service and responding to emergency calls. Isolate service disruptions and work to the designated work areas only.
- Coordinate any power disruptions with the Owner at least 48 hours in advance. Schedule work to minimize disruptions to the greatest extent possible.
- Field verify all dimensions and existing conditions. Notify the Architect and/or Engineer of any discrepancies.
- Locate and isolate all utilities prior to the start of demolition. Protect existing utilities scheduled to remain, especially fire alerting and radio communication devices, from damage during the project.
- Existing power and water on the site can be used. If additional is needed, it is the responsibility of the contractor to provide additional as needed. The Contractor shall provide temporary toilet facilities for use by workers on the site.

## Scope of Work

The work of this project is to convert the existing dormitory space into multiple semi-private bunk space, expand the existing fitness area, modify the Battalion Chief's toilet room to install a corner shower unit (Add Alternate), and provide electrical and vent system for a clothes dryer in the Mechanical Room (Add Alternate).

## Facility Operation

Fire Station #16 shall remain in full operation for the response to all emergent and non-emergent calls. The Contractor shall work closely with the EFD Facilities Manager and Deputy Chief of Logistics and Finance to coordinate any service disruptions, required relocations, and scheduling.

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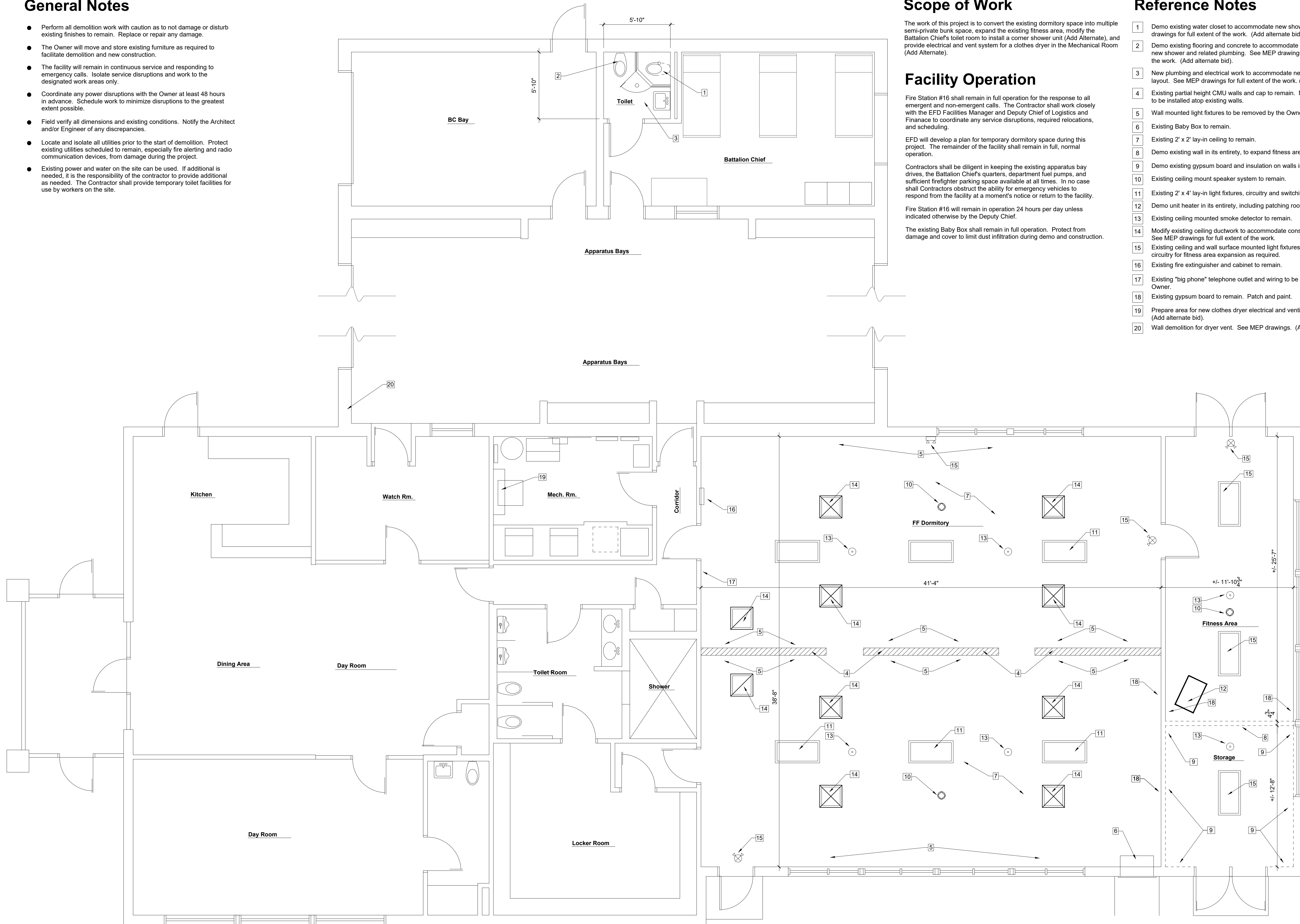
Contractors shall be diligent in keeping the existing apparatus bay drives, the Battalion Chief's quarters, department fuel pumps, and sufficient firefighter parking space available at all times. In no case shall Contractors obstruct the ability for emergency vehicles to respond from the facility at a moment's notice or return to the facility.

Fire Station #16 will remain in operation 24 hours per day unless indicated otherwise by the Deputy Chief.

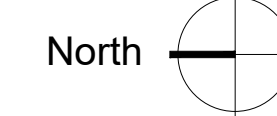
The existing Baby Box shall remain in full operation. Protect from damage and cover to limit dust infiltration during demo and construction.

## Reference Notes

- Demo existing water closet to accommodate new shower. See MEP drawings for full extent of the work. (Add alternate bid).
- Demo existing flooring and concrete to accommodate new water closet, new shower and related plumbing. See MEP drawings for full extent of the work. (Add alternate bid).
- New plumbing and electrical work to accommodate new toilet room layout. See MEP drawings for full extent of the work. (Add alternate bid).
- Existing partial height CMU walls and cap to remain. New divider walls to be installed atop existing walls.
- Wall mounted light fixtures to be removed by the Owner as required.
- Existing Baby Box to remain.
- Existing 2' x 2' lay-in ceiling to remain.
- Demo existing wall in its entirety, to expand fitness area.
- Demo existing gypsum board and insulation on walls in the Storage Area.
- Existing ceiling mount speaker system to remain.
- Existing 2' x 4' lay-in light fixtures, circuitry and switching to remain.
- Demo unit heater in its entirety, including patching roof termination.
- Existing ceiling mounted smoke detector to remain.
- Modify existing ceiling ductwork to accommodate construction/relocation. See MEP drawings for full extent of the work.
- Existing ceiling and wall surface mounted light fixtures to remain. Modify circuitry for fitness area expansion as required.
- Existing fire extinguisher and cabinet to remain.
- Existing "big phone" telephone outlet and wiring to be relocated by the Owner.
- Existing gypsum board to remain. Patch and paint.
- Prepare area for new clothes dryer electrical and venting. Dryer by Owner. (Add alternate bid).
- Wall demolition for dryer vent. See MEP drawings. (Add alternate bid).



1 Overall Existing / Demolition Floor Plan  
1/4" = 1'-0"



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### EFD Station #16 Renovations

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Existing / Demolition  
Floor Plan

SHEET NO:

**A-1.1**

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MICHAEL L. EWALD  
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# General Notes

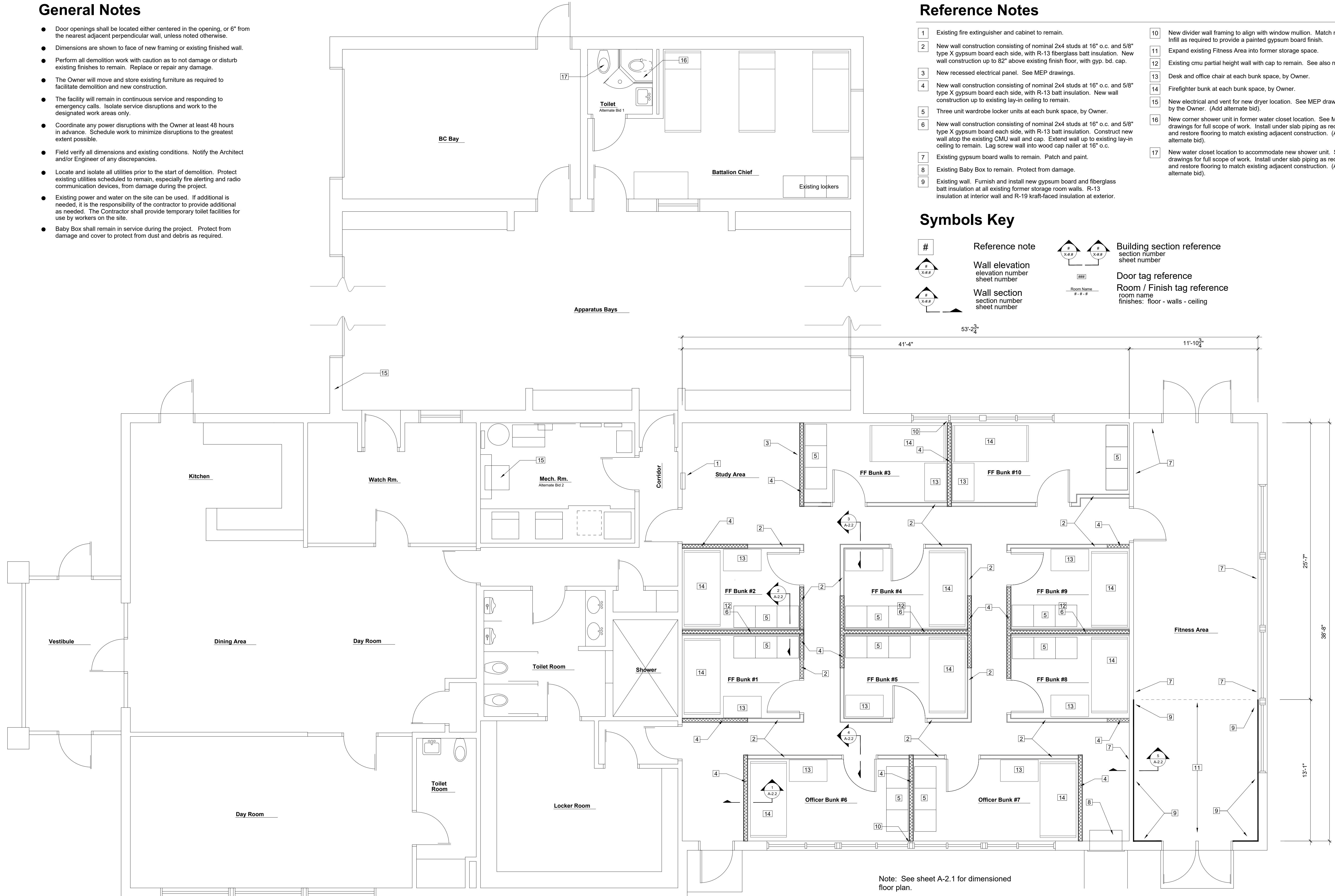
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- The Owner will move and store existing furniture as required to facilitate demolition and new construction.
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- Coordinate any power disruptions with the Owner at least 48 hours in advance. Schedule work to minimize disruptions to the greatest extent possible.
- Field verify all dimensions and existing conditions. Notify the Architect and/or Engineer of any discrepancies.
- Locate and isolate all utilities prior to the start of demolition. Protect existing utilities scheduled to remain, especially fire alerting and radio communication devices, from damage during the project.
- Existing power and water on the site can be used. If additional is needed, it is the responsibility of the contractor to provide additional as needed. The Contractor shall provide temporary toilet facilities for use by workers on the site.
- Baby Box shall remain in service during the project. Protect from damage and cover to protect from dust and debris as required.

# Reference Notes

- Existing fire extinguisher and cabinet to remain.
- New wall construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with R-13 fiberglass batt insulation. New wall construction up to 82" above existing finish floor, with gyp. bd. cap.
- New recessed electrical panel. See MEP drawings.
- New wall construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with R-13 batt insulation. New wall construction up to existing lay-in ceiling to remain.
- Three unit wardrobe locker units at each bunk space, by Owner.
- New wall construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with R-13 batt insulation. Construct new wall atop the existing CMU wall and cap. Extend wall up to existing lay-in ceiling to remain. Lag screw wall into wood cap nailer at 16" o.c.
- Existing gypsum board walls to remain. Patch and paint.
- Existing Baby Box to remain. Protect from damage.
- Existing wall. Furnish and install new gypsum board and fiberglass batt insulation at all existing former storage room walls. R-13 insulation at interior wall and R-19 kraft-faced insulation at exterior.
- New divider wall framing to align with window mullion. Match mullion width. Infill as required to provide a painted gypsum board finish.
- Expand existing Fitness Area into former storage space.
- Existing cmu partial height wall with cap to remain. See also note #6.
- Desk and office chair at each bunk space, by Owner.
- Firefighter bunk at each bunk space, by Owner.
- New electrical and vent for new dryer location. See MEP drawings. Dryer by the Owner. (Add alternate bid).
- New corner shower unit in former water closet location. See MEP drawings for full scope of work. Install under slab piping as required and restore flooring to match existing adjacent construction. (Add alternate bid).
- New water closet location to accommodate new shower unit. See MEP drawings for full scope of work. Install under slab piping as required and restore flooring to match existing adjacent construction. (Add alternate bid).

# Symbols Key

- # Reference note
- Wall elevation elevation number sheet number
- Wall section section number sheet number
- Building section reference section number sheet number
- Door tag reference Room / Finish tag reference room name finishes: floor - walls - ceiling



Note: See sheet A-2.1 for dimensioned floor plan.

**1** Overall Improvement Floor Plan  
1/4" = 1'-0" North

IFB 011-02-2024  
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Overall Improvement Floor Plan

SHEET NO:  
**A-2.0**

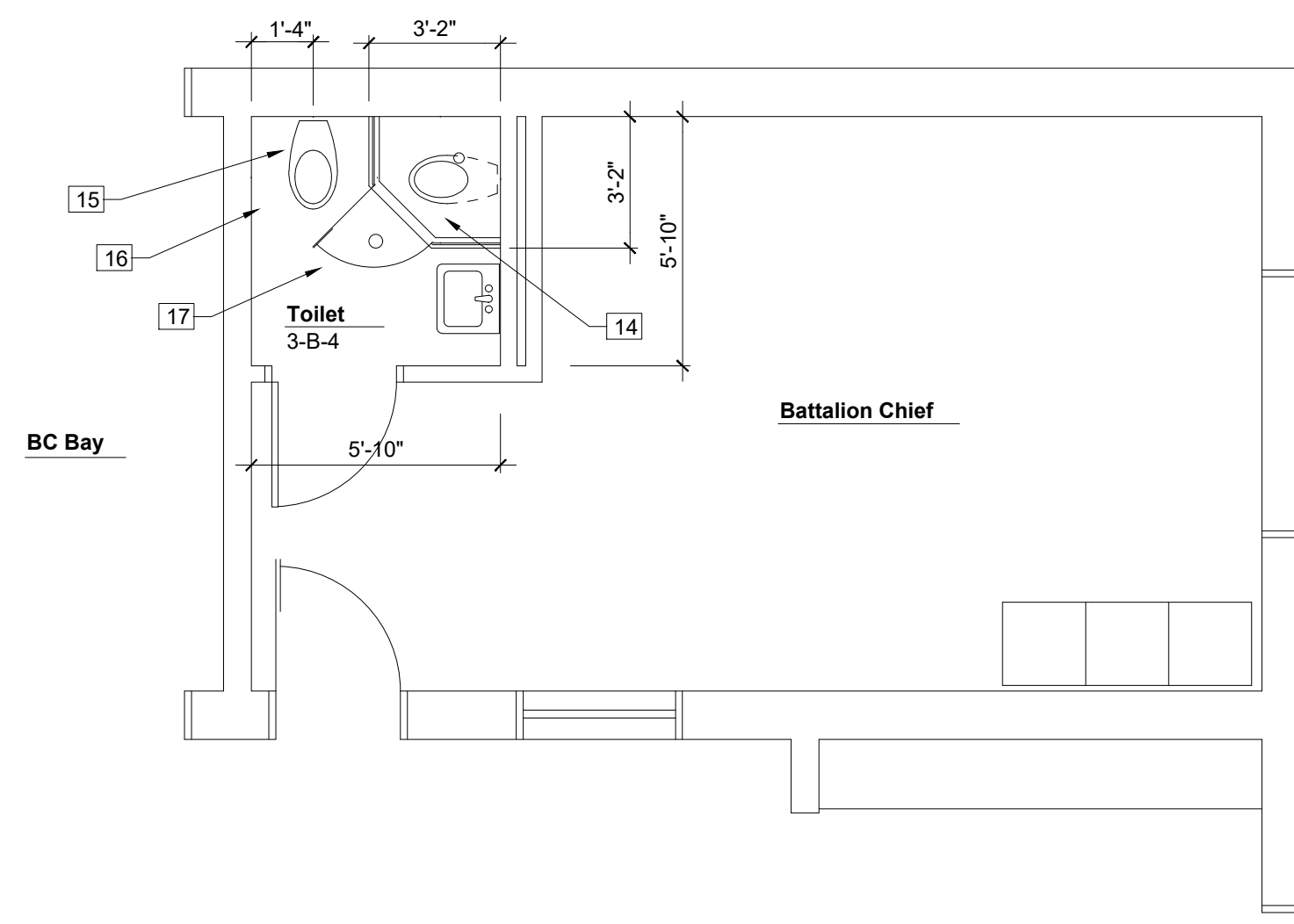
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MICHAEL L. EWALD REGISTERED ARCHITECT  
AR 10700019  
STATE OF INDIANA  
Michael L. Ewald  
MICHAEL L. EWALD, AIA, ALA  
EXPIRES: 12-01-2025

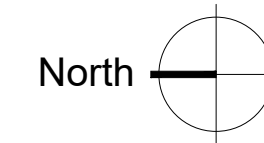


## General Notes

- Door openings shall be located either centered in the opening, or 6" from the nearest adjacent perpendicular wall, unless noted otherwise.
- Dimensions are shown to face of new framing or existing finished wall.
- Perform all demolition work with caution as to not damage or disturb existing finishes to remain. Replace or repair any damage.
- The Owner will move and store existing furniture as required to facilitate demolition and new construction.
- The facility will remain in continuous service and responding to emergency calls. Isolate service disruptions and work to the designated work areas only.
- Coordinate any power disruptions with the Owner at least 48 hours in advance. Schedule work to minimize disruptions to the greatest extent possible.
- Field verify all dimensions and existing conditions. Notify the Architect and/or Engineer of any discrepancies.
- Locate and isolate all utilities prior to the start of demolition. Protect existing utilities scheduled to remain, especially fire alerting and radio communication devices, from damage during the project.
- Existing power and water on the site can be used. If additional is needed, it is the responsibility of the contractor to provide additional as needed. The Contractor shall provide temporary toilet facilities for use by workers on the site.
- Existing Baby Box to remain in operation during the project. Protect from damage during demolition and new construction. Cover to protect from dust and debris as required.



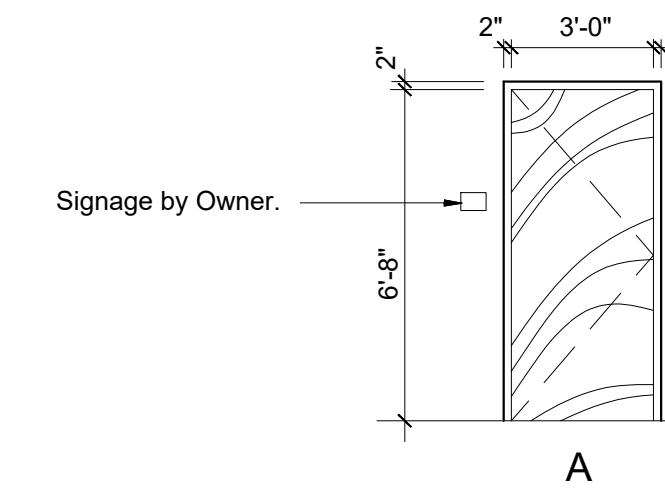
**2** Enlarged Battalion Chief Floor Plan  
1/4" = 1'-0"



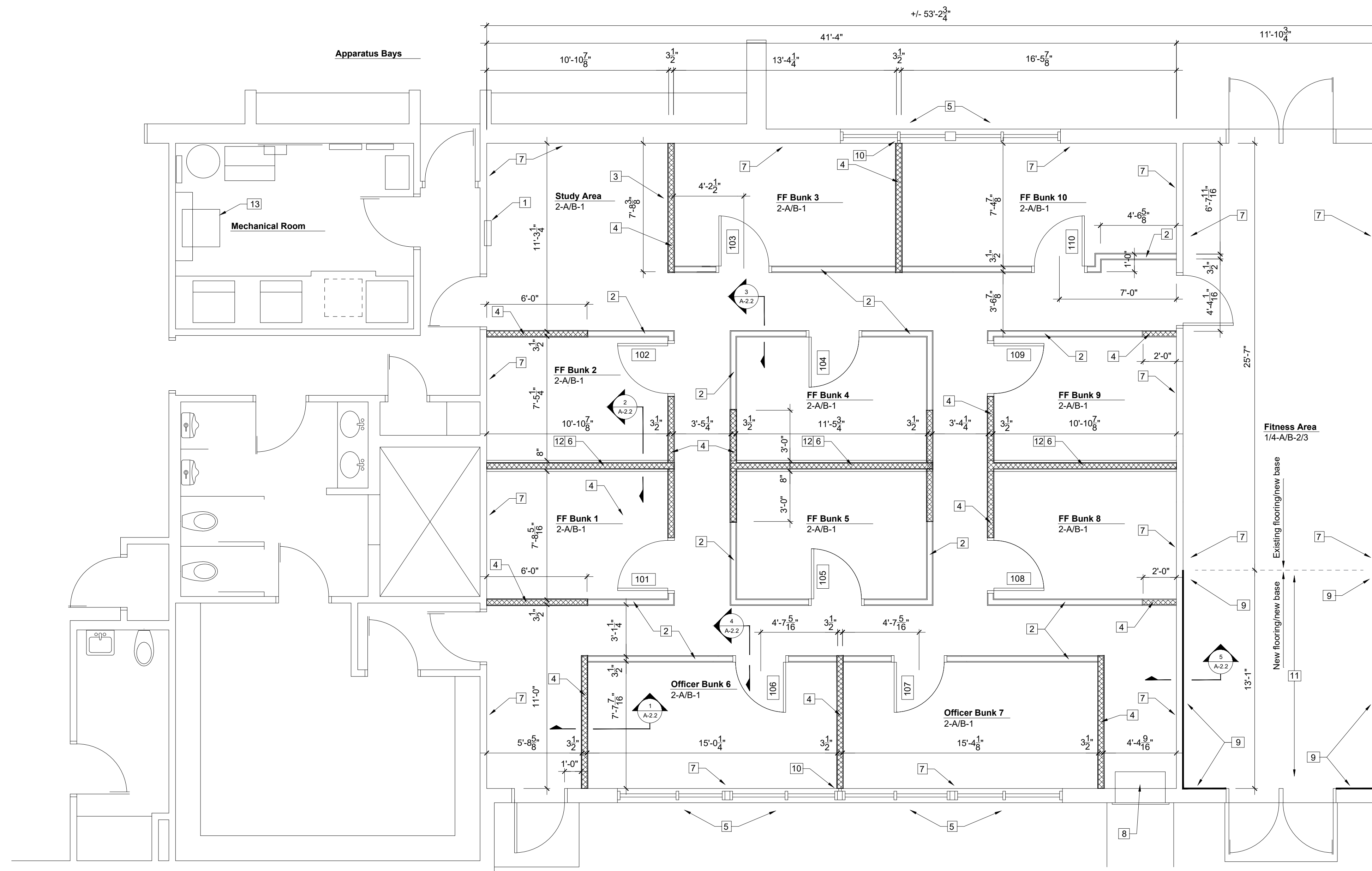
## Door Hardware

SET NO. 1:  
1.5 Pair of butts  
Lockset: Privacy function, lever trim  
Wall stop

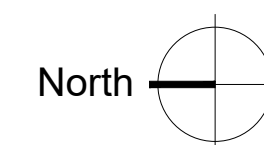
Door Schedule												
No.	Width	Height	Thk.	Matl.	Finish	Frm.	Finish	Width	Rating	Hdwre.	Elev.	Notes
101	3'-0"	6'-8"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	n/a	1	A	
102	3'-0"	6'-8"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	n/a	1	A	
103	3'-0"	6'-8"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	n/a	1	A	
104	3'-0"	6'-8"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	n/a	1	A	
105	3'-0"	6'-8"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	n/a	1	A	
106	3'-0"	6'-8"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	n/a	1	A	
107	3'-0"	6'-8"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	n/a	1	A	
108	3'-0"	6'-8"	1 3/4"	Wood	Paint	Metal	Paint	6 3/4"	n/a	1	A	
109	3'-0"	6'-8"	1 3/4"	Wood	Paint	Metal	Paint	6 3/4"	n/a	1	A	
110	3'-0"	6'-8"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	n/a	1	A	



**3** Door and Frame Elevation  
1/4" = 1'-0"



**1** Enlarged Dormitory and Fitness Area Floor Plan  
1/4" = 1'-0"



## Reference Notes

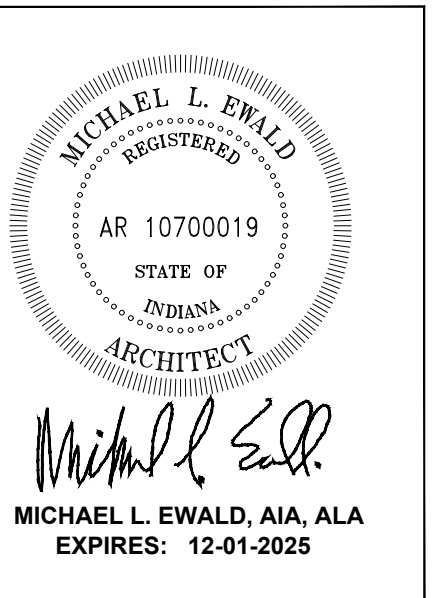
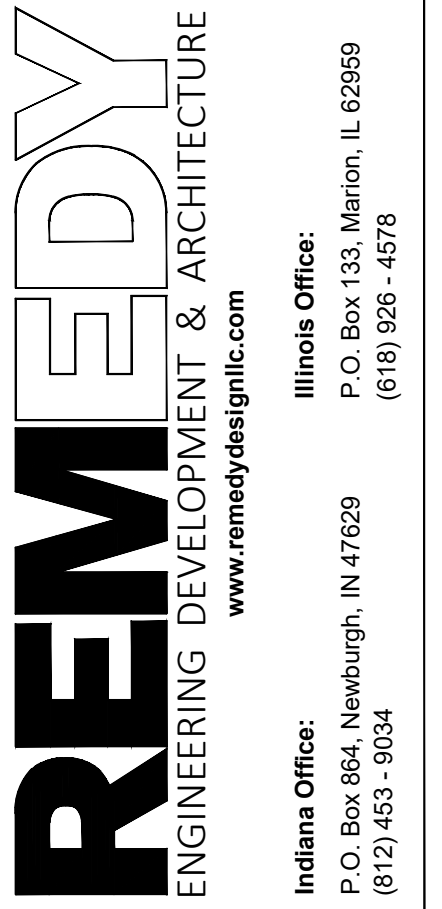
- Existing fire extinguisher and cabinet to remain.
- New wall construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with R-13 fiberglass batt insulation. New wall construction up to 82" above existing finish floor, with gyp. bd. cap.
- New recessed electrical panel. See MEP drawings.
- New wall construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with R-13 batt insulation. New wall construction up to existing lay-in ceiling to remain.
- Existing window units to remain.
- New wall construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with R-13 batt insulation. Construct new wall atop the existing CMU wall and cap. Extend wall up to existing lay-in ceiling to remain. Lag screw wall into wood cap nailer at 16" o.c.
- Existing gypsum board walls to remain. Patch and paint.
- Existing Baby Box to remain. Protect from damage.
- Existing wall. Furnish and install new gypsum board and fiberglass batt insulation at all existing former storage room walls. R-13 insulation at interior wall and R-19 kraft-faced insulation at exterior.
- New divider wall framing to align with window mullion. Match mullion width. Infill as required to provide a painted gypsum board finish.
- Expand existing Fitness Area into former storage space.
- Existing cmu partial height wall with cap to remain. See also note #6.
- New future dryer location. Dryer by Owner. See MEP drawings for electrical and dryer vent installation. Field verify exact locations. Add alternate.
- New corner shower unit. See MEP drawings for full extent of the work. Add alternate.
- New water closet in new location. See MEP drawings for full extent of the work. Add alternate.
- Relocate existing toilet paper dispenser for new water closet location. Add alternate.
- Install new under slab piping and replace concrete slab and tile floor to match existing construction as closely as possible. Add alternate.

## Room Finish Schedule

FLOORS:	
1.	Existing rubber athletic flooring to remain. New 4" rubber cove base throughout. Color by Owner.
2.	Existing VCT flooring to remain. New 4" rubber base throughout. Color by owner.
3.	Quarry tile and grout to match existing as closely as possible, with 4" quarry tile cove base as required. Color by Owner.
4.	New rubber athletic flooring over existing concrete slab floor, with transition strip at existing flooring and new 4" rubber cove base throughout entire expanded fitness area. Colors / patterns by Owner.
WALLS:	
A.	New gypsum board, painted. Color by Owner.
B.	Existing gypsum board. Patch and prepare for new paint. Color by Owner.
CEILING:	
1.	Existing 2' x 2' suspended acoustical tile and grid ceiling to remain. Height: 8'-3" A.F.F.
2.	New gypsum board ceiling to match adjacent existing gypsum board ceiling, painted. White color. Height: +/- 9'-11 3/4" A.F.F.
3.	Existing gypsum board to remain, patch and prepare for new paint. White color. Height: +/- 9'-11 3/4" A.F.F.
4.	Existing gypsum board to remain, patch and prepare for new paint. White color. Height: +/- 8'-0" A.F.F.

## Symbols Key

- # Reference note
- Wall elevation elevation number sheet number
- Wall section section number sheet number
- Building section reference section number sheet number
- Door tag reference door number
- Room / Finish tag reference room name finishes: floor - walls - ceiling



**EFD Station #16 Renovations**  
2801 Washington Avenue  
Evansville, IN 47714  
Fire Chief Tony Knight

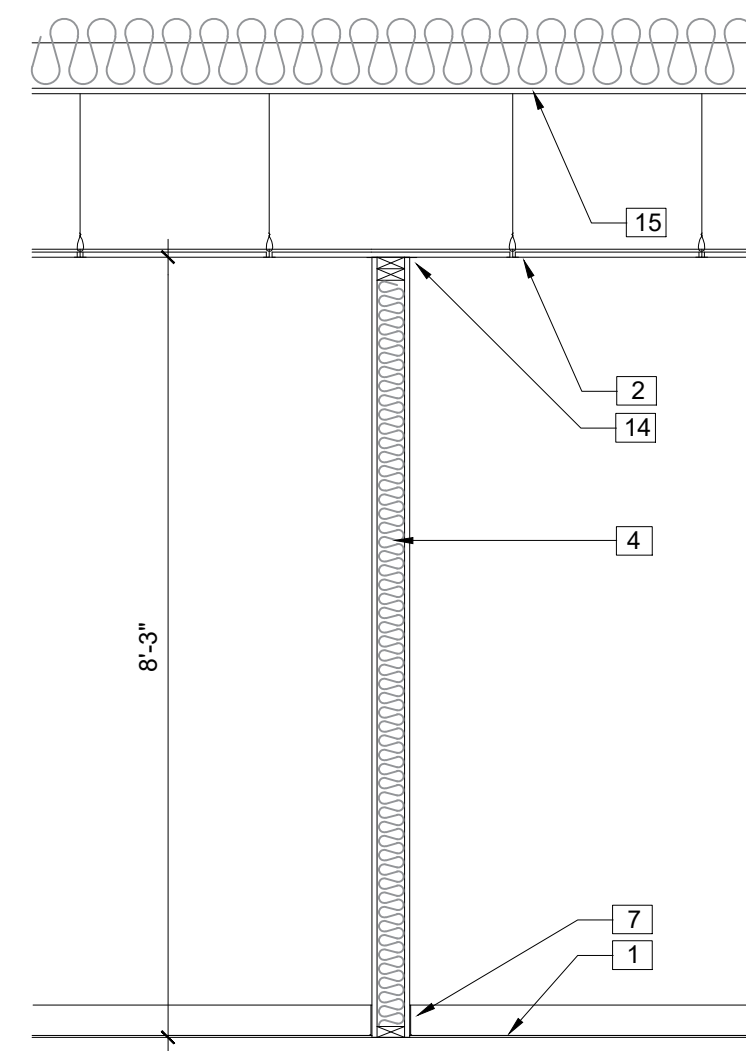
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**Enlarged Floor Plans**

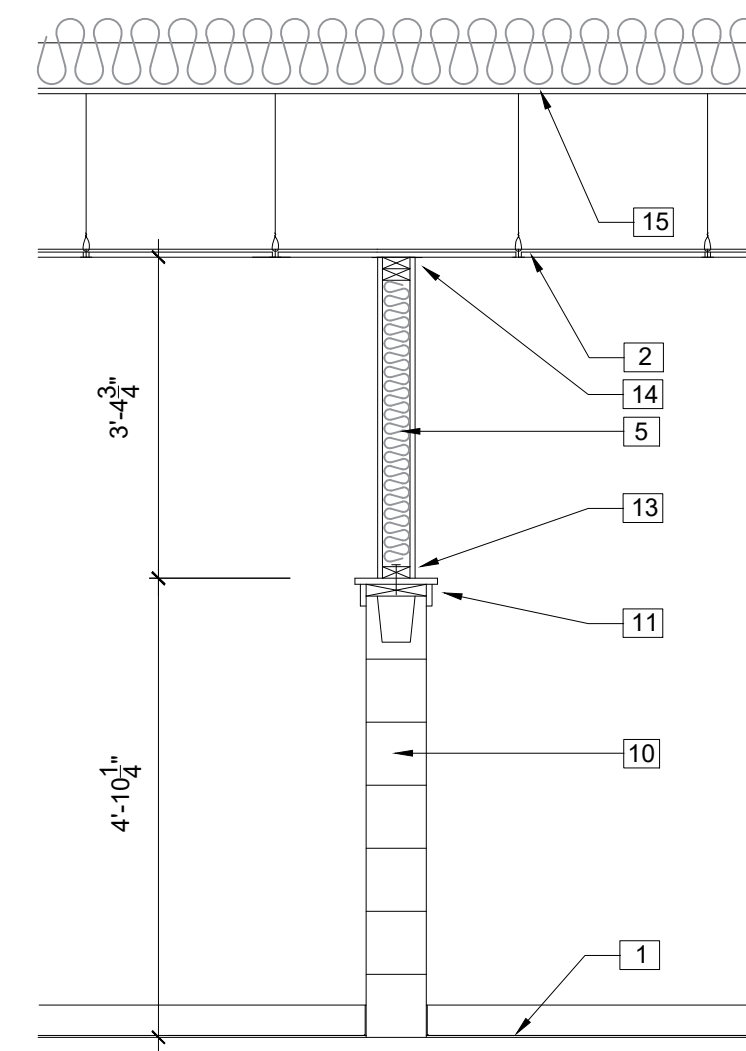
SHEET NO:  
**A-2.1**

IFB 011-02-2024  
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November 15, 2024

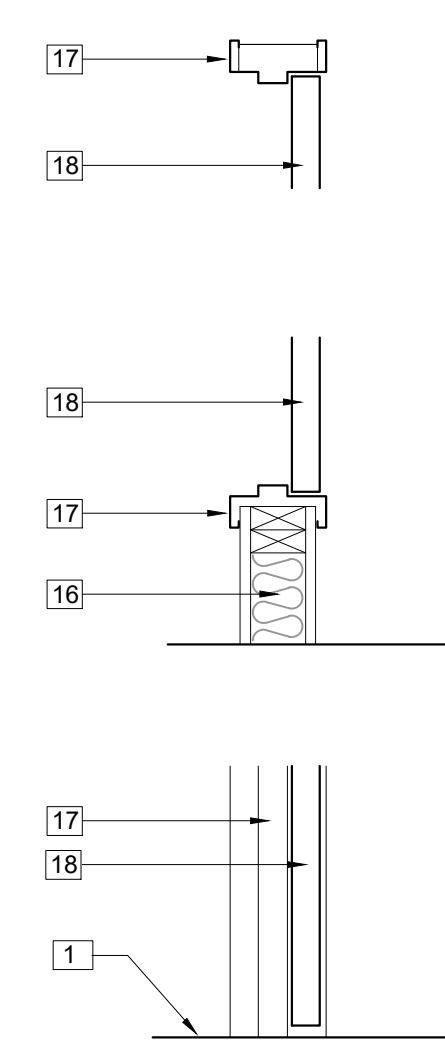




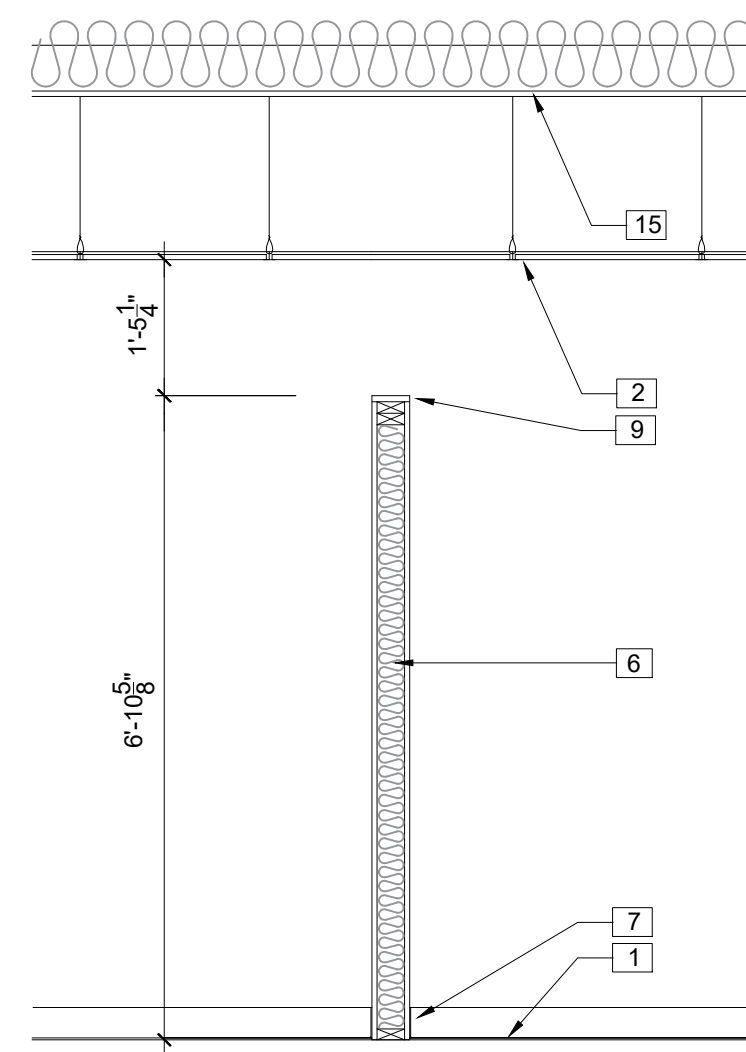
**1** Section - divider partiton 99" a.f.f.  
1/2" = 1'-0"



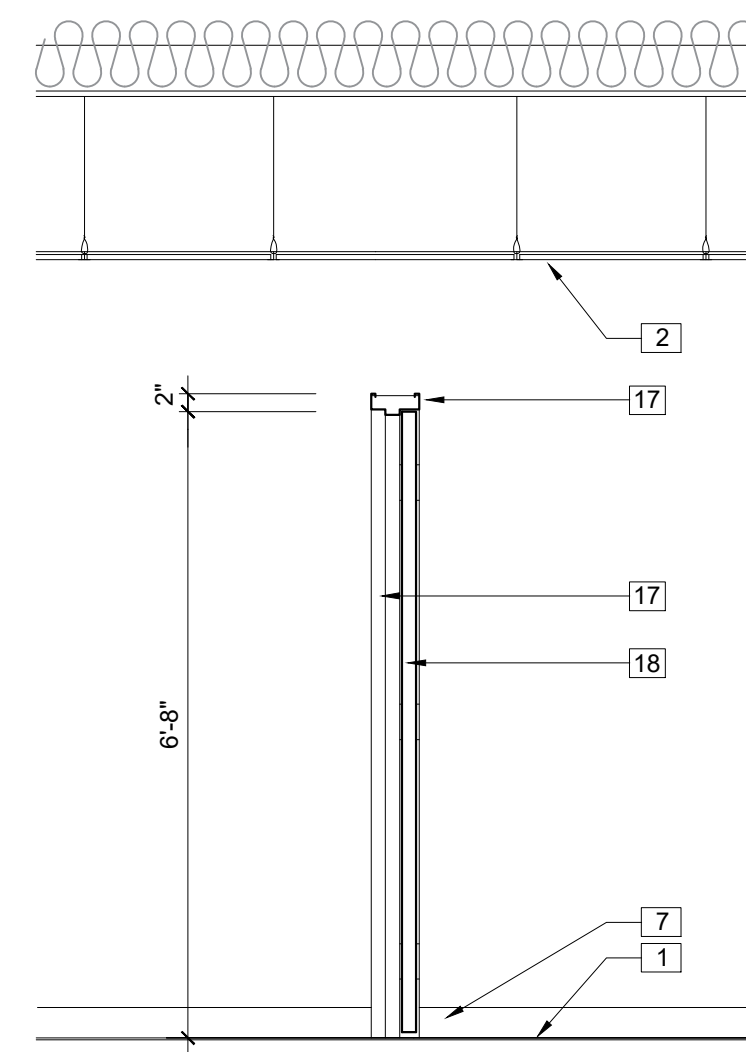
**2** Section - cmu / divider partition  
1/2" = 1'-0"



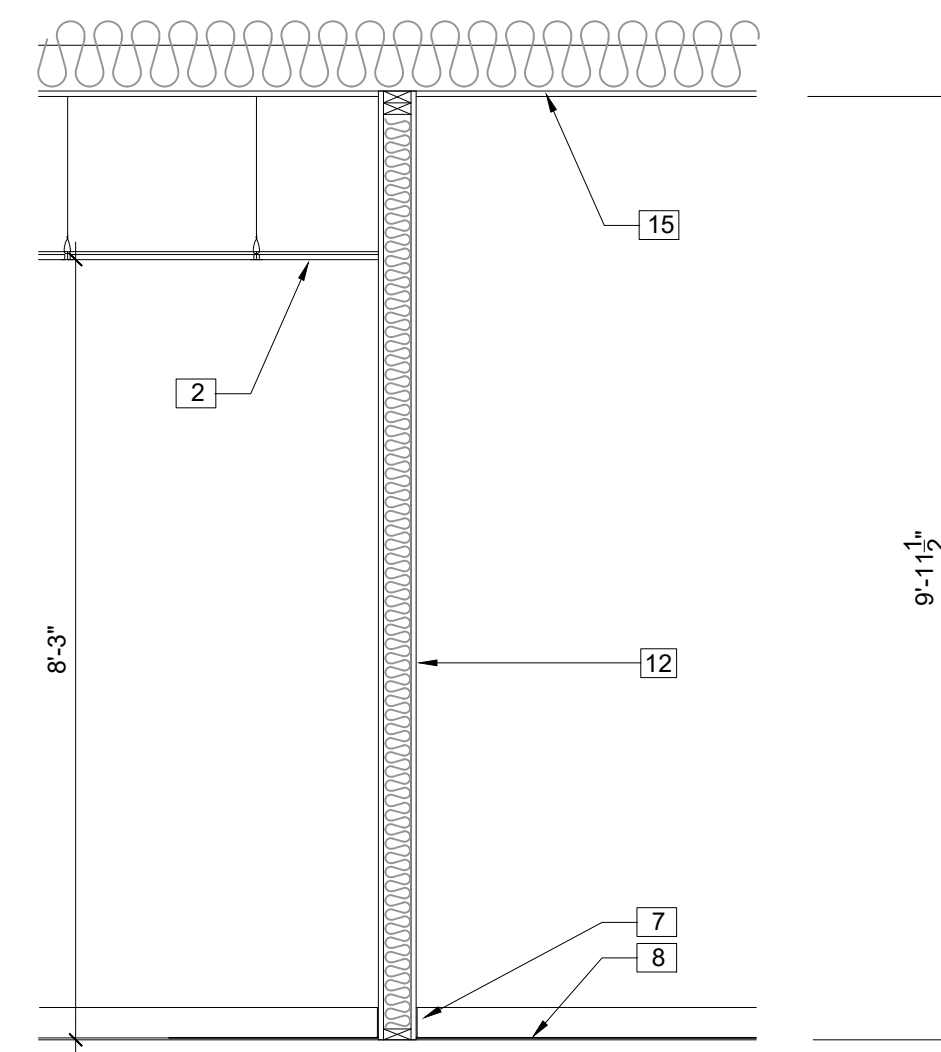
**3** Head, Jamb and Sill Detail  
1" = 1'-0"



**4** Section - divider partiton 82" a.f.f.  
1/2" = 1'-0"



**5** Section - door and frame  
1/2" = 1'-0"



**6** Section - existing wall  
1/2" = 1'-0"

## Reference Notes

- 1 Existing vct flooring to remain. Protect from damage.
- 2 Existing 2' x 2' lay-in acoustical tile ceiling to remain. 8'-3" height a.f.f.
- 3 New door and frame in new divider partition construction.
- 4 New divider partition construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with fiberglass batt insulation at each stud space. New divider partition construction up to existing suspended ceiling height, painted, color by Owner.
- 5 New divider partition construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with fiberglass batt insulation at each stud space, atop existing cmu divider and cap. New divider partition construction up to existing suspended ceiling height, painted, color by Owner.
- 6 New divider partition construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with fiberglass batt insulation at each stud space. New divider partition construction up to 82" a.f.f. with gyp. board cap, painted, color by Owner.
- 7 New 4" rubber cove base, color by Owner.
- 8 New athletic rubber flooring. See specifications.
- 9 Gypsum board cap, painted, color by Owner.
- 10 Existing cmu wall to remain.
- 11 Existing wood cap and trim to remain.
- 12 Install new fiberglass insulation in existing wall framing and install new 5/8" type X gypsum board this side of wall.
- 13 Anchor new stud wall to existing wood cap blocking atop cmu wall with lag screws at 16" on center.
- 14 Gypsum board trim bead for a smooth finish at wall termination at existing suspended acoustical tile ceiling.
- 15 Existing gypsum board with existing fiberglass insulation above.
- 16 Firefighter bunk divider partition.
- 17 Welded metal frame, painted, color by Owner.
- 18 Wood door, stained.
- 16 Firefighter bunk divider partition.

## General Notes

- Perform all demolition work with caution as to not damage or disturb existing finishes to remain. Replace or repair any damage.
- The Owner will move and store existing furniture as required to facilitate demolition and new construction.
- The facility will remain in continuous service and responding to emergency calls. Isolate service disruptions and work to the designated work areas only.
- Coordinate any power disruptions with the Owner at least 48 hours in advance. Schedule work to minimize disruptions to the greatest extent possible.
- Field verify all dimensions and existing conditions. Notify the Architect / Engineer of any discrepancies.
- Locate and isolate all utilities prior to the start of demolition. Protect existing utilities scheduled to remain, especially fire alerting and radio communication devices, from damage during the project.

## Symbols Key

#	Reference note
	Wall elevation elevation number sheet number
	Wall section section number sheet number
	Building section reference section number sheet number
	Door tag reference
	Room / Finish tag reference room name finishes: floor - walls - ceiling

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MICHAEL L. EWALD  
REGISTERED  
AR 10700019  
STATE OF  
INDIANA  
ARCHITECT  
MICHAEL L. EWALD, AIA, ALA  
EXPIRES: 12-01-2025

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Fire Chief Tony Knight

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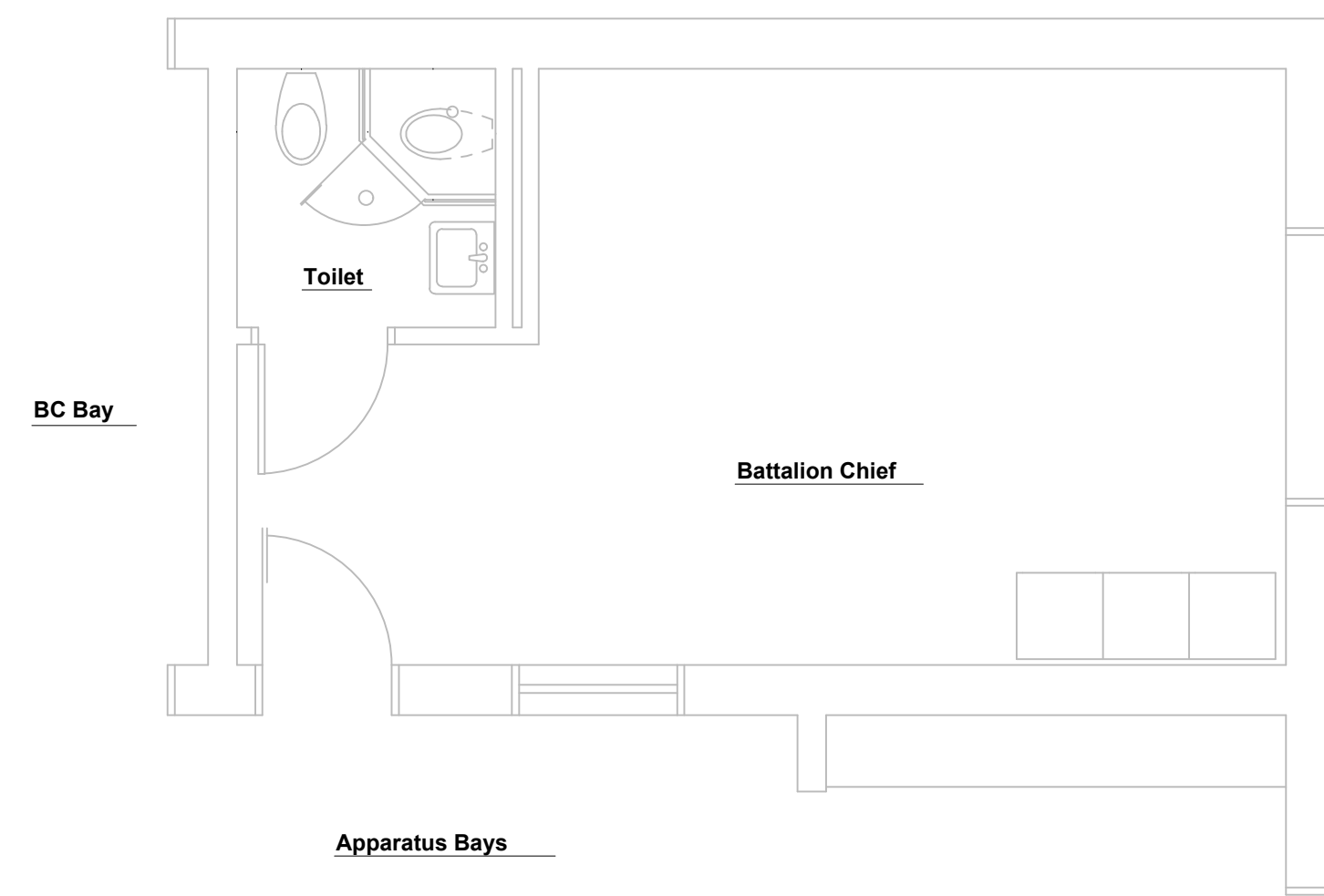
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**Wall Sections  
& Details**

SHEET NO:

**A-2.2**

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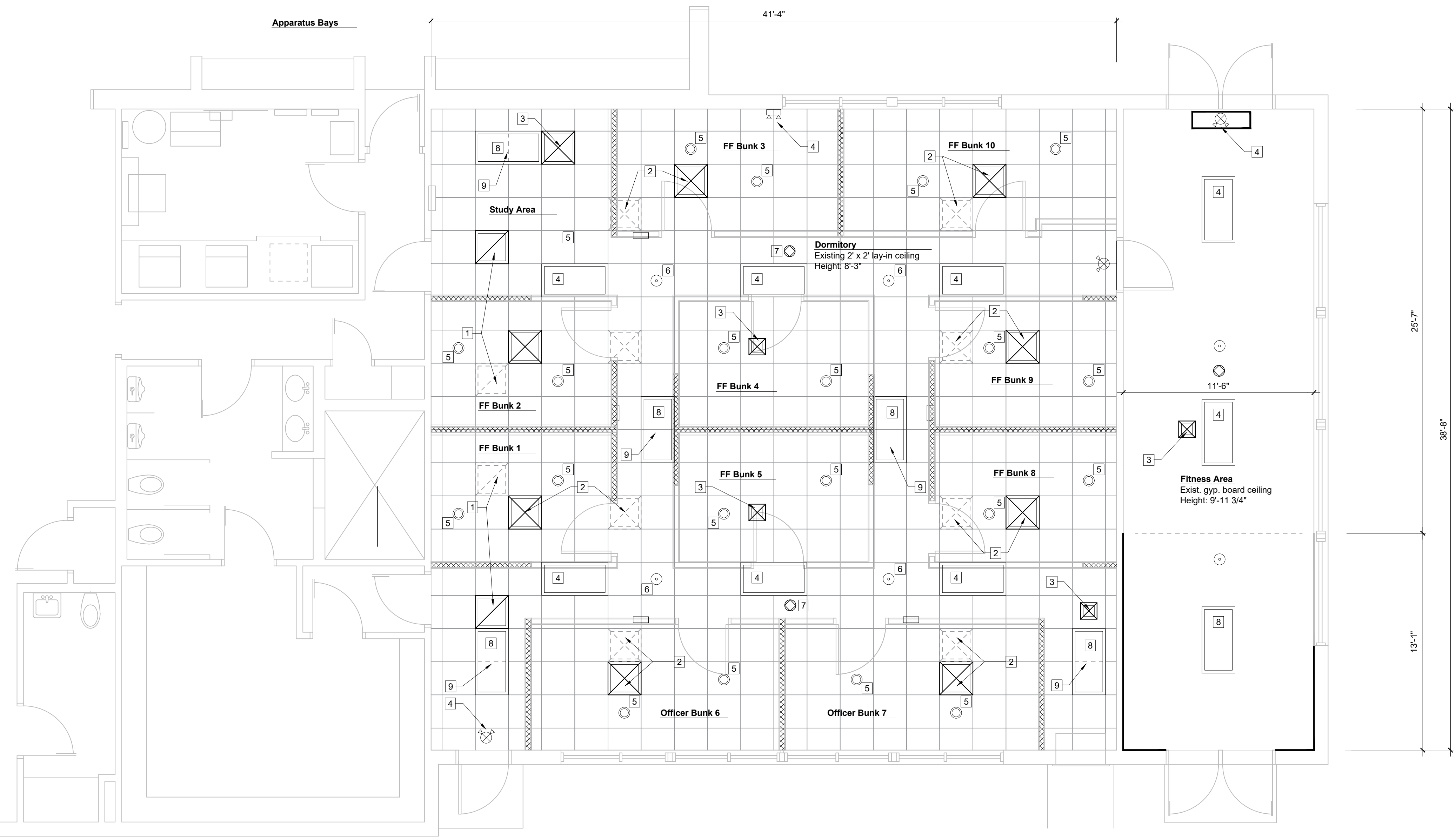


### Reference Notes

- 1 Existing return air grille relocated to new location.
- 2 Existing supply air grille relocated to new location.
- 3 New lay-in 12" x 12" supply air grille to match existing style, appearance.
- 4 Existing wall or ceiling light fixture to remain.
- 5 New lay-in ceiling mount downlight fixture. See MEP drawings.
- 6 Existing smoke detectors to remain.
- 7 Existing speakers to remain.
- 8 New lay-in ceiling or surface mount light fixture. See MEP drawings.
- 9 Modify existing grid layout to accept new fixture.

### Symbols Key

- Existing return air grille - lay-in mount
- Existing supply air grille - lay-in mount
- LED downlight fixture - acoustical tile mount
- Surface mount or lay-in ceiling light fixture
- Existing communications speaker
- Existing smoke detector
- Existing wall or ceiling mount exit / emergency light with battery back-up
- Existing wall mounted emergency light fixture with battery back-up



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**Reflected Ceiling Plan**

SHEET NO:  
**A-2.3**

**1** Dormitory and Fitness Area Reflected Ceiling Plan  
 1/4" = 1'-0" North

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Michael L. Ewald  
 MICHAEL L. EWALD, AIA, ALA  
 EXPIRES: 12-01-2025

**GENERAL REQUIREMENTS:**

- A. REGULATORY REQUIREMENTS:
  - 1. INDIANA BUILDING CODE (IBC 2014 WITH INDIANA AMENDMENTS)
  - 2. NATIONAL ELECTRIC CODE (NEC).
  - 3. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
  - 4. AMERICANS WITH DISABILITIES ACT (ADA).
  
- B. CUTTING AND PATCHING: PERFORM ALL CUTTING AND PATCHING USING EXPERIENCED WORKERS. PROTECT ADJACENT SURFACES AND SYSTEMS DURING CUTTING AND PATCHING OPERATIONS. PATCH SURFACES USING SIMILAR MATERIALS. BLEND ALL PATCHING TO NEAREST CORNER OR LOGICAL TERMINATION TO PROVIDE AN AESTHETICALLY PLEASING FINISH APPEARANCE.  
  
ALL SURFACES AFFECTED BY CUTTING AND PATCHING SHALL BE FINISHED TO PROVIDE A COMPLETE, FINISHED SYSTEM OR ASSEMBLY, OR NEAREST CORNER.
  
- C. PERMITS AND FEES:  
  
CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY LOCAL LAWS AND ORDINANCES.  
  
D. CONTRACTOR SHALL FILED VERIFY ALL NEW AND EXISTING DIMENSIONS AND ELEVATIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT IN WRITING BEFORE COMMENCING WORK.  
  
VISIT TO THE SITE: THE CONTRACTOR MUST VISIT THE SITE BEFORE SUBMITTING HIS BID AND THOROUGHLY INSPECT SAME TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS WHICH MAY AFFECT NEW INSTALLATION OF WORK UNDER THE CONTRACT. CLAIM FOR EXTRA COMPENSATION DUE TO THE EXISTING CONDITIONS WILL NOT BE CONSIDERED.
  
- E. SUBSTITUTION PROCEDURES: BIDDERS MAY SUBMIT PRODUCTS FOR APPROVAL PRIOR BIDDING. PRODUCTS SUBMITTED AFTER BIDS ARE OPENED WILL BE CONSIDERED IF THEY ARE EQUAL TO, OR EXCEED, THE PRODUCT SPECIFIED AS BASIS OF DESIGN. SUBSTITUTIONS ARE THE CONTRACTOR'S RESPONSIBILITY. PRODUCTS DETERMINED NOT EQUAL TO THE SPECIFIED OR BASIS OF DESIGN PRODUCT WILL BE REJECTED, AND THE CONTRACTOR SHALL FURNISH THE ACCEPTABLE PRODUCT.  
  
F. CONTRACTOR SHALL DELIVER TO THE ARCHITECT AND OWNER, SUBMITTALS FOR ALL FINISHES, EQUIPMENT AND FURNISHINGS. SUBMITTALS SHALL BE COMPLETE TO SHOW QUALITY OF MATERIALS, CONSTRUCTION AND INSTALLATION. SUBMITTALS SHALL PROVIDE COLOR CHARTS OR MATERIAL SAMPLES SUFFICIENT TO ALLOW FOR COLOR SELECTIONS TO BE MADE.  
  
G. USE OF EXISTING WATER AND POWER ON SITE WILL BE PERMITTED AS LONG AS IT DOES NOT INTERFERE WITH FIRE STATION OPERATIONS. IF ADDITIONAL SERVICES ARE REQUIRED IN ADDITION TO THOSE IDENTIFIED FOR USE, THE CONTRACTOR SHALL SUPPLY SAID SERVICES AND INCLUDE ALL COSTS FOR SAME IN HIS BID. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PORTABLE TOILETS ON THE SITE FOR USE BY TEH CONSTRUCTION PERSONNEL. SERVICE TOILETS REGULARLY.  
  
H. MATERIALS DELIVERED AND STORED ON THE SITE SHALL BE DONE IN A MANNTER AS TO NOT INTERFERE WITH THE FIRE STATION OPERATIONS. COORDINATE WITH TEH OWNER'S FACILITY MANAGER FOR THE PLACEMENT AND OPERATION OF JOB TRAILERS, EQUIPMENT STORAGE AND CONSTRUCTION PERSONNEL DAILY PARKING AT THE SITE.  
  
I. PRIOR TO FINAL CLOSEOUT, SUBMIT TO THE ARCHITECT AND OWNER A COMPLETE OPERATIONS AND MAINTENANCE REPORT LISTING PRODUCTS, WARRANTY INFORMATION, AND CONTRACT INFORMATION. PROVIDE A SIGNED AND DATED ONE-YEAR MATERIALS AND WORKMANSHIP WARRANTY DOCUMENT. DELIVER ALL KEYS TO THE OWNER AND COORDINATE WITH THE OWNER'S FACILITY MANAGER FOR THE ACCEPTANCE OF EXTRA STOCK FOR ITEMS SUCH AS PAINT, FLOOR TILE, ATHLETIC FLOORING, CEILING TILES, CARPET TILES, RESILIENT BASE AND PAINT.

**TECHNICAL SPECIFICATIONS - ARCHITECTURAL WORK:**

CONTRACTOR SHALL FILED VERIFY ALL NEW AND EXISTING DIMENSIONS AND ELEVATIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT IN WRITING BEFORE COMMENCING WORK.

VISIT TO THE SITE: THE CONTRACTOR MUST VISIT THE SITE BEFORE SUBMITTING HIS BID AND THOROUGHLY INSPECT SAME TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS WHICH MAY AFFECT NEW INSTALLATION OF WORK UNDER THE CONTRACT. CLAIM FOR EXTRA COMPENSATION DUE TO THE EXISTING CONDITIONS WILL NOT BE CONSIDERED.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION:  
  
NEW DIVIDER PARTITION WALLS SHALL RECEIVE OWENS CORNING FIBERGLASS BATTS FOR INTERIOR WALLS AND KRAFT-FACED FIBERGLASS BATTS FOR EXTERIOR WALLS. FULL HEIGHT. R-19 MINIMUM AT EXTERIOR WALLS AND R-13 MINIMUM AT INTERIOR PARTITIONS.

DIVISION 8 - DOORS, FRAMES AND HARDWARE:  
  
WOOD DOORS BASIS OF DESIGN: MARSHFIELD, OR EQUIVALENT, 1 3/4" THICKNESS, SOLID CORE, PLAIN SLICED WHITE MAPLE, PRE-MACHINED, PRE-FINISHED, 48-97 "NUTMEG" STAIN COLOR, OR AS SELECTED BY THE OWNER TO MATCH EXISTING DOORS IN THE FACILITY. PROVIDE GLASS LIGHT KITS TO MATCH EXISTING DOORS WHERE SHOWN. DOORS SHALL BE FIRE RATED WHERE INDICATED.  
  
METAL FRAMES BASIS OF DESIGN: STTLELCRAFT, F SERIES, 16 GAUGE STEEL, WELDED CONSTRUCTION, 5 3/4" JAMB THROAT WIDTH, WITH Q146 SILENCERS. PRIMED AND PAINTED. COLOR AS SELECTED BY OWNER. STUD FRAMING CONSTRUCTION WALL ANCHORS.  
  
DOOR HARDWARE BASIS OF DESIGN: HAGER, OR EQUIVALENT, HEAVY-DUTY, US26D FINISH, UNLESS NOTED OTHERWISE.  
LOCKSETS: HAGER, 3500 SERIES, GRADE 2, AUGUST LEVER  
PRIVACY - 3540  
HINGES: HAGER, BALL BEARING HINGES, ECBB 1100, 4 1/2"  
STOPS: HAGER, 236 W

DIVISION 9 - FINISHES: PAINT SHALL BE SHERWIN WILLIAMS, OR EQUIVALENT, BEST QUALITY PRODUCT LINE. NEW AND EXISTING SURFACES TO BE PAINTED: PREPARE SURFACES AND APPLY PRIMER WITH TWO (2) COATS FINISH.  
  
RUBBER BASE SHALL BE JOHNSONITE, OR EQUIVALENT, 4" TALL RUBBER BASE. COLORS SHALL BE AS SELECTED BY THE OWNER.  
  
RUBBER ATHLETIC FLOORING: BASIS OF DESIGN IS FITFLOORS, INC., SPECIALIZED RUBBER FLOORING, 1/4" THICKNESS, BLACK COLOR, 48" WIDE X 15' LONG ROLLS, ADHERED WITH MANUFACTURER'S RECOMMENDED URETHANE ADHESIVE.  
  
QUARRY TILE TO MATCH BATTALION CHIEF TOILET ROOM FLOORING: BASIS OF DESIGN, SUMMITVILLE QUARRY TILE, 6" X 6" X 1/2" UNGLAZED QUARRY TILE, COLOR AND GROUT TO MATCH EXISTING TILE TO REMAIN AS CLOSELY AS POSSIBLE.

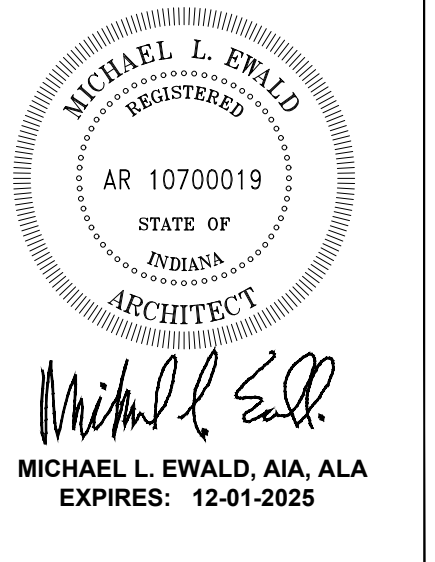
**TECHNICAL SPECIFICATIONS - MEP WORK:**

- A. SEE REPSECTIVE PLUMBING, MECHANICAL AND ELECTRICAL SHEETS.

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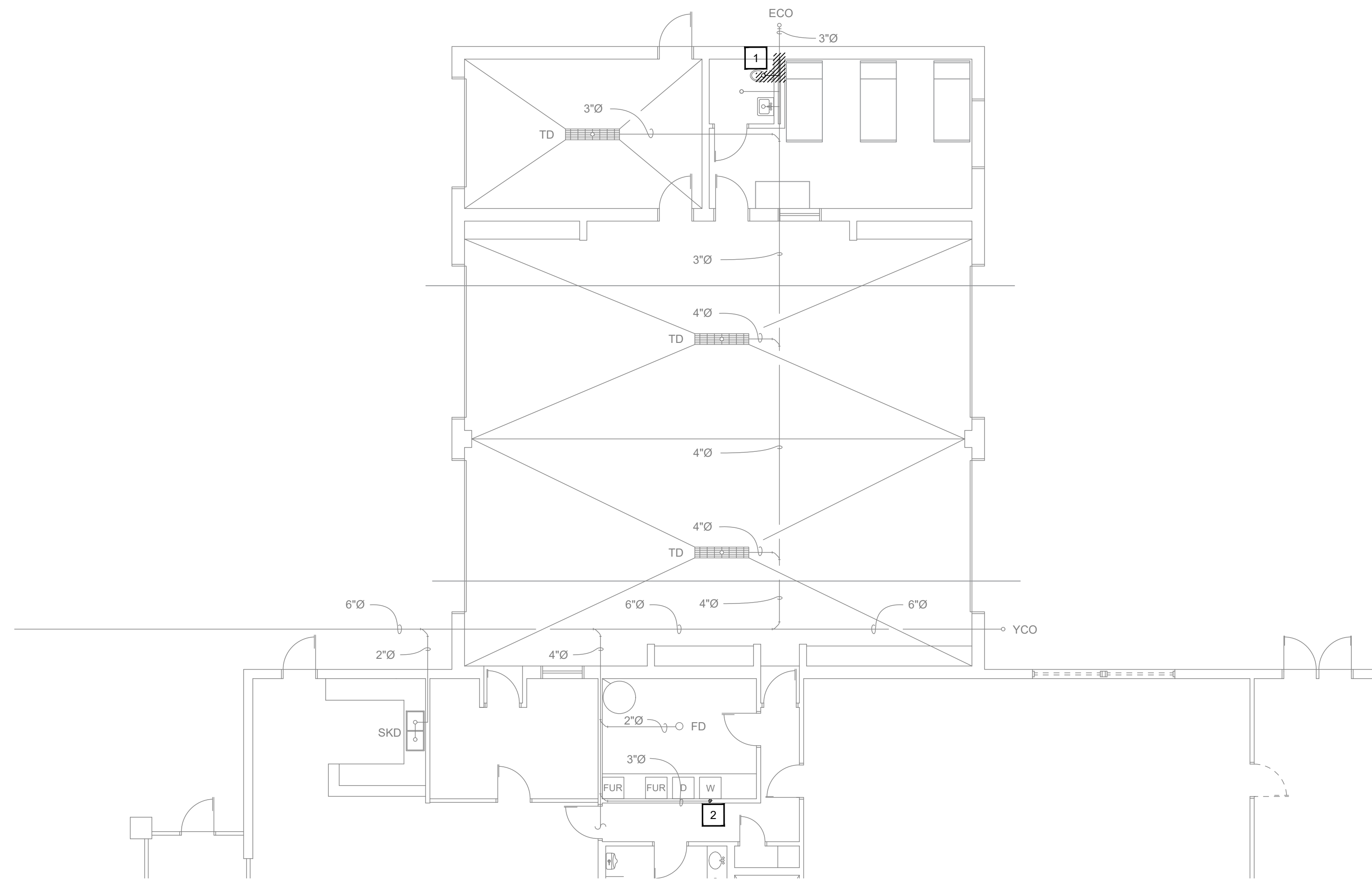
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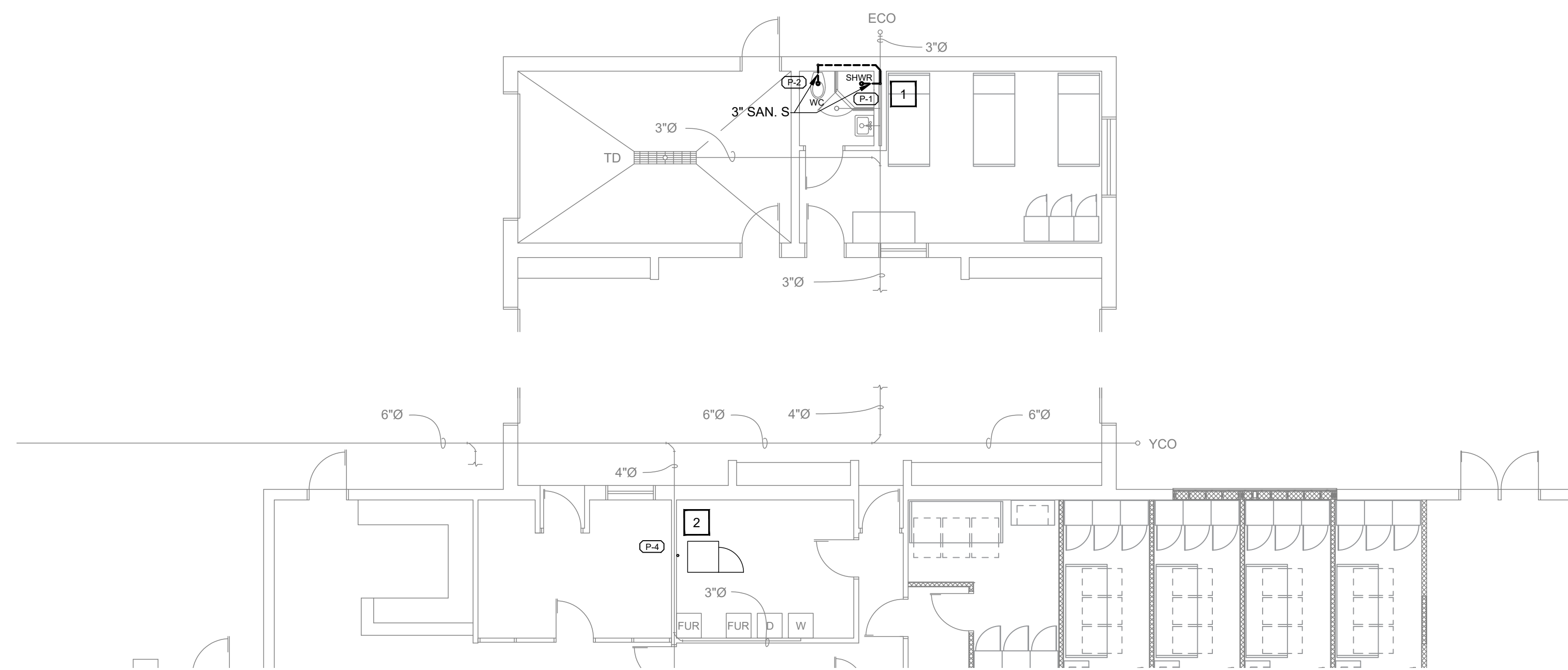
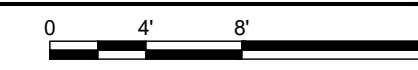
Specifications

SHEET NO:  
**A-3.1**

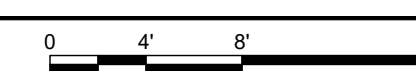




**1 SANITARY DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



**1 SANITARY FLOOR PLAN**  
SCALE: 1/8"=1'-0"



**DEMOLITION NOTES**

1. DEMO COMPLETE SANITARY SEWER LINE FROM WATER CLOSET TO SEWER MAIN.
2. REMOVE SECTION OF EXISTING WASHER AND DRYER 3" SANITARY LINE TO DRAIN NEW STACKABLE WASHER/DRYER.

**CONSTRUCTION NOTES**

1. CONNECT NEW WATER CLOSET/SHOWER SANITARY LINE TO EXISTING MAIN. TIE IN NEW WATER CLOSET VENT TO EXISTING 3" VENT MAIN.
2. CONNECT NEW STACKABLE WASHER/DRYER TO EXISTING SANITARY LINE. CONNECT NEW VENT TO EXISTING 2" VENT. SEE RISER FOR DETAILS.

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REGISTERED PROFESSIONAL ENGINEER  
No. 10302106  
STATE OF INDIANA  
9/27/24

**EFD Station #16 Renovations**  
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Evansville, IN 47714  
Fire Chief Tony Knight

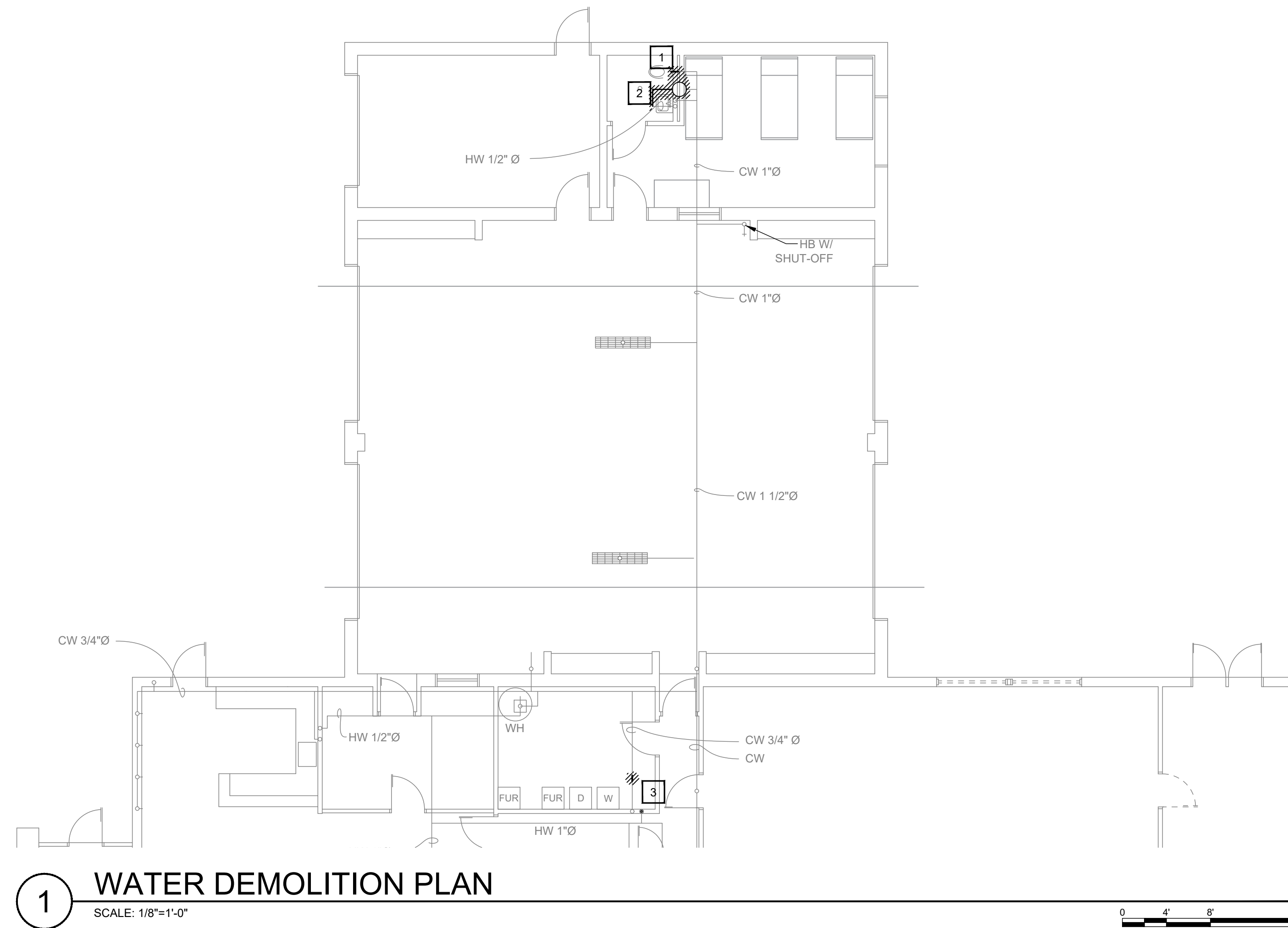
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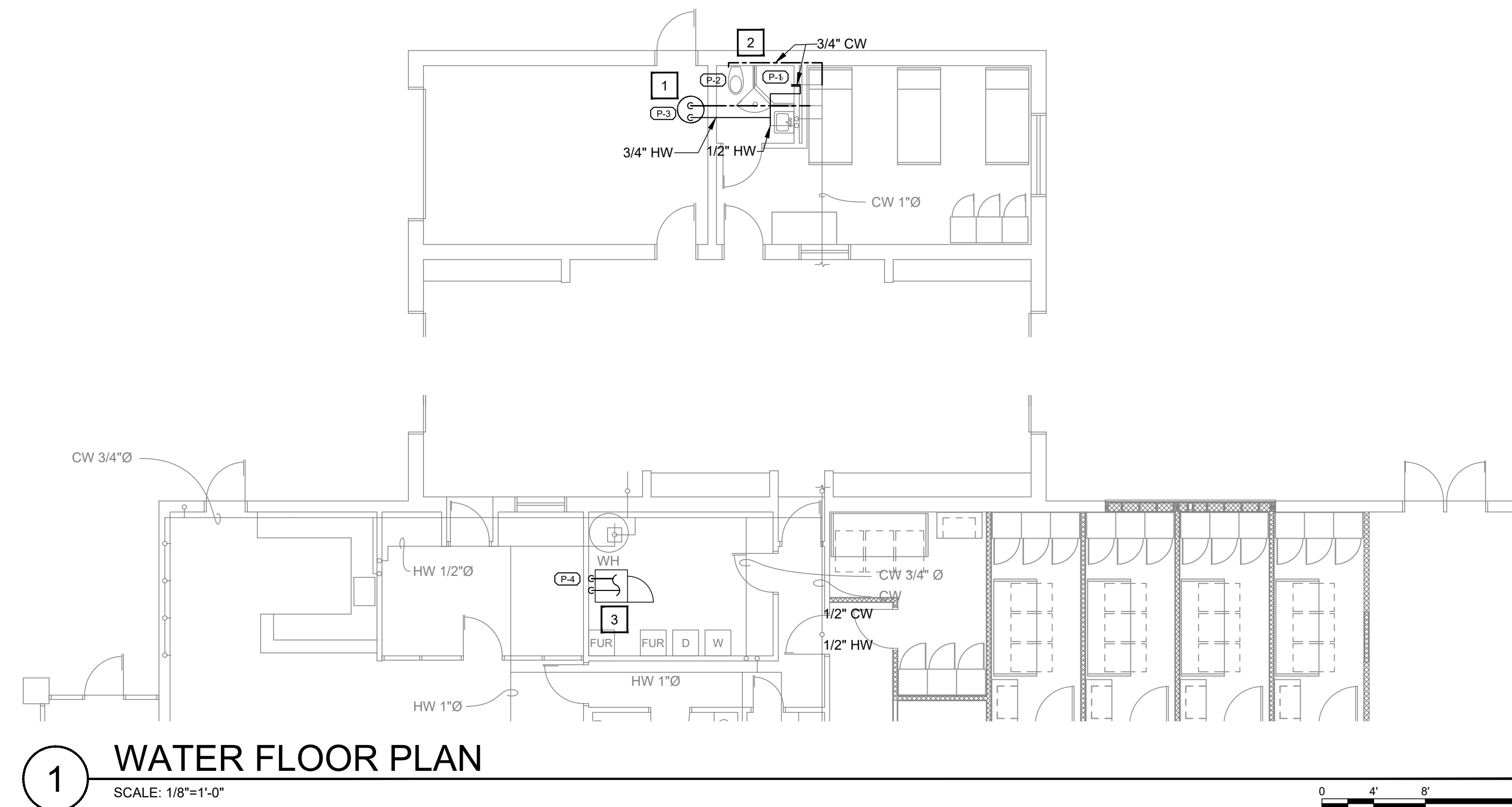
1830 DESTINY LANE, SUITE 113  
BOWLING GREEN, KY  
(270) 599-0182  
ACT JUSTLY, LOVE MERCY, WALK HUMBLLY

**Plumbing Sanitary Plan**  
SHEET NO:  
**P-1.0**





**1 WATER DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



**1 WATER FLOOR PLAN**  
SCALE: 1/8"=1'-0"



**DEMOLITION NOTES**

1. DEMO COLD WATER LINE FROM TOILET FOR NEW SHOWER.
2. DEMO EXISTING HOT WATER HEATER ABOVE CEILING AND HW LINE.
3. REMOVE SECTION OF EXISTING CW/HW TO FEED NEW STACKABLE WASHER/DRYER. MAINTAIN EXISTING LINES CW/HW LINE TO EXISTING INDUSTRIAL WASHER AND DRYER. FIELD VERIFY HOW EXISTING CW/HW LINES ARE RAN.

**CONSTRUCTION NOTES**

1. PROVIDE & INSTALL NEW HW HEATER. MOUNT ON SHELF 7" A.F.F. RECONNECT HW TO SINK. PROVIDE NEW HW LINE TO SHOWER.
2. INSTALL NEW CW TO WATER CLOSET AND SHOWER.
3. CONNECT NEW 1/2" CW AND HW LINES TO OUTLET BOX FOR WASHER AND DRYER. CONNECT TO MAIN IN MECH ROOM.

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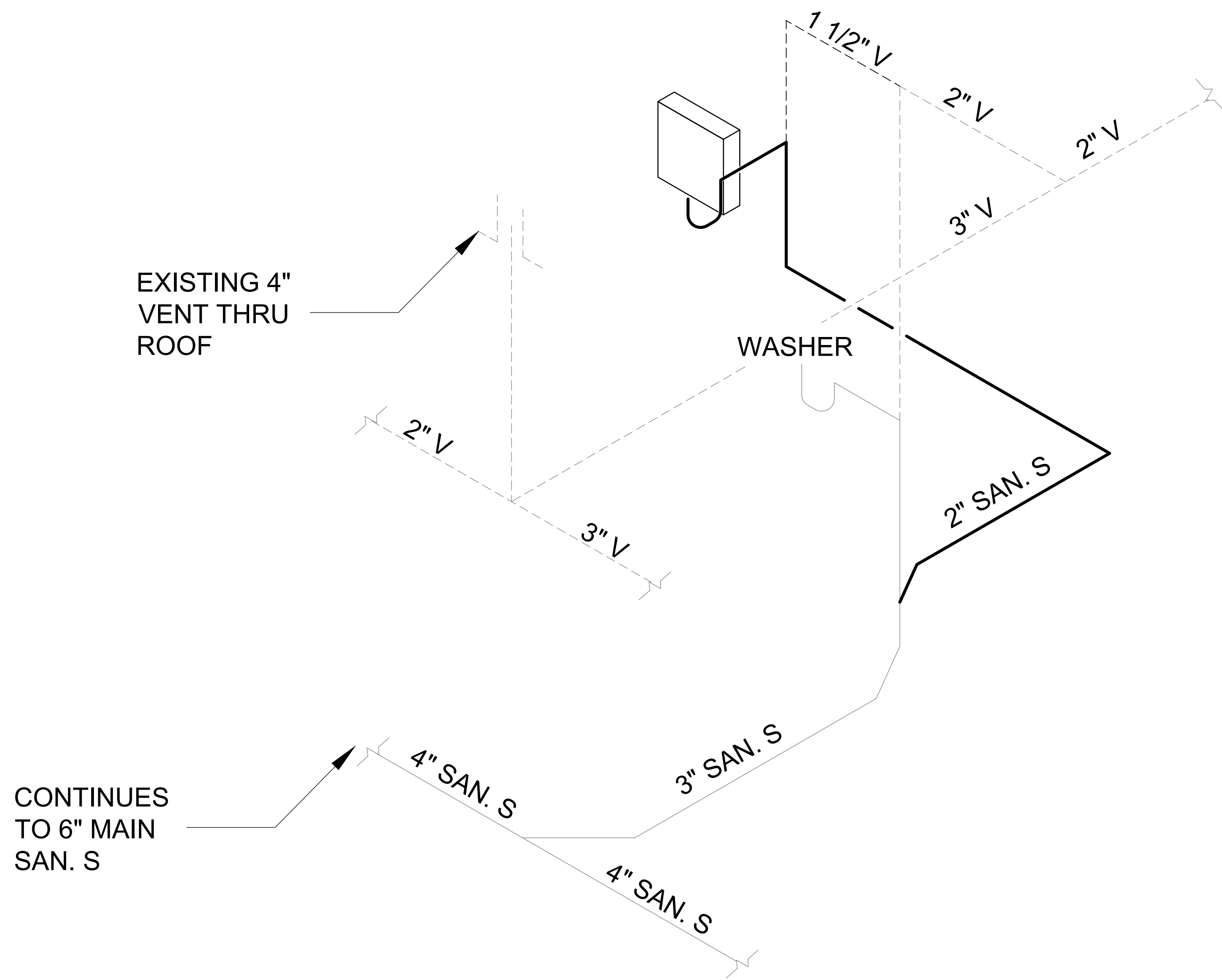
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**Plumbing Water Plan**

SHEET NO:  
**P-1.1**

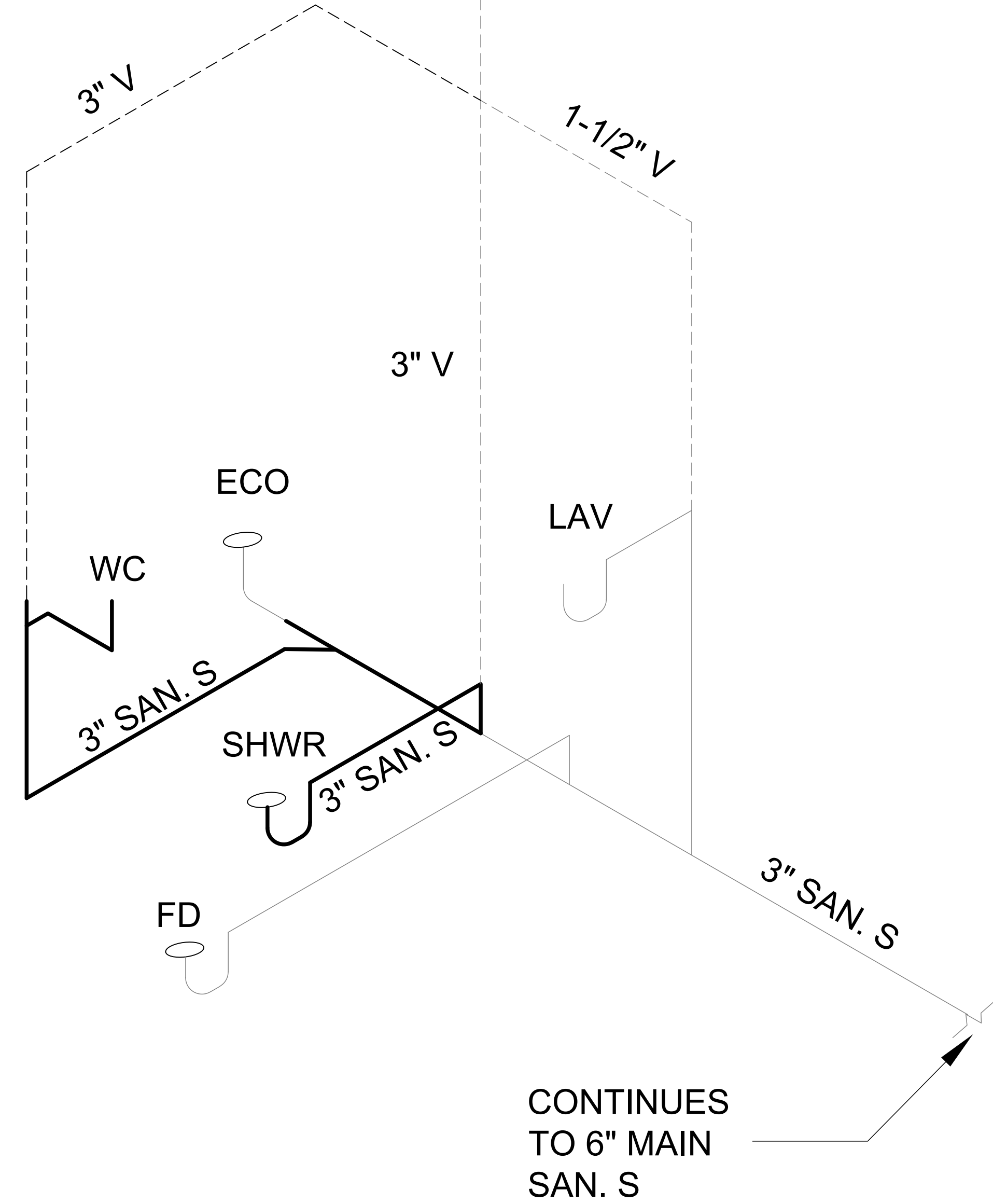




**1** WASHER/DRYER UPGRADES SEWER RISER

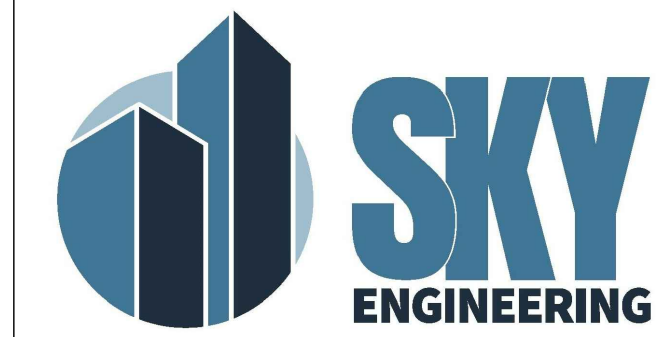
NOT TO SCALE

EXISTING 3" VENT THRU ROOF

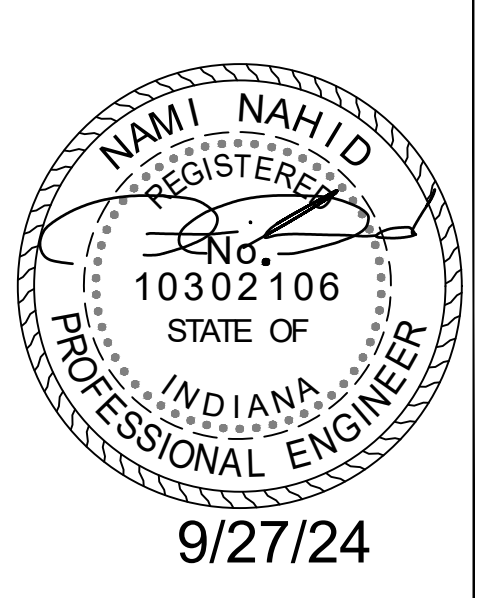


**1** BATHROOM UPGRADES SEWER RISER

NOT TO SCALE



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Fire Chief Tony Knight

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**Plumbing Riser Diagram**

SHEET NO:  
**P-1.2**



## GENERAL PLUMBING NOTES

- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE, CONTRACTORS SHALL INCLUDE APPROPRIATE ALLOWANCES FOR OFFSETS AS REQUIRED TO ACCOMMODATE VERTICAL AND HORIZONTAL VARIATIONS IN THE LOCATIONS AND ELEVATIONS OF DUCTWORK, PIPING AND EXISTING CONDITIONS.
- EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT DRAINS, ETC...) SHALL HAVE PRIORITY.
- PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING, OR OTHER EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATION OF EQUIPMENT. FIELD VERIFY EXISTING WALL PENETRATIONS AND PROPERLY SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING.
- ALL UNDERGROUND PIPE TO BE MINIMUM OF 2" CHARLOTTE PVC UNLESS OTHERWISE NOTED. PIPING SHALL NOT RUN THRU FOUNDATION OR FOOTERS WITH A LENGTH GREATER THAN 2 FEET. WITHIN THE FOOTER CONTRACTOR SHALL PROVIDE A PIPE SLEEVE THE LENGTH OF THE PENETRATION, 2 INCHES LARGER THAN THE PENETRATING PIPE. LASTLY, THE PIPE MUST BE ARMAFLEX INSULATED AND APPROVED BY LOCAL AHJ.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- PROVIDE ACCESS TO ALL CONCEALED EQUIPMENT AND VALVES. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT. PROVIDE ACCESS PANELS FOR CONCEALED VALVES AND OPEN SITE DRAINS.
- ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, OR INDIRECT CONNECTIONS SHALL BE PROVIDED WITH TRAP PRIMER VALVE(S) EXTENDING TO NEAREST COLD WATER SUPPLY UNLESS SHOWN OTHERWISE.
- VENT STACK SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY HVAC UNIT.
- EXTEND SANITARY SEWER, DOMESTIC WATER, STORM, AND FIRE MAIN PIPING AS REQUIRED IN ORDER TO CONNECT TO STUB-OUT PROVIDED BY CIVIL.
- INSTALL STOPS IN SUPPLIES TO ALL FIXTURES.
- INSTALL SHUT-OFF VALVES AT ALL EQUIPMENT.
- PROVIDE VENTS, CLEANOUTS, AND PLUMBING AS REQ'D BY STATE PLUMBING CODE.
- PIPING SHALL BE CONCEALED IN FINISHED AREAS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE STARTING WORK.
- ALL EQUIPMENT INSTALLED AS PER CERTIFIED SHOP DRAWING FROM MFR.
- VENT PIPING MAINS WITHIN PLUMBING WALL TO BE ABOVE 55" AFF TO ALLOW MOUNTING OF GFI OUTLETS NEXT TO SINKS. ROUTE VENT PIPING TO AVOID VANITY LIGHT MOUNTING LOCATION. COORDINATE WITH ELECTRICAL.
- PROVIDE HYDRAULIC SHOCK ABSORBERS WHERE QUICK-CLOSING VALVES ARE UTILIZED AND AS OTHERWISE REQUIRED BY CODE.
- ROOF OPENINGS SHALL MEET ROOF BOND CANTS AND FLASHINGS BY ROOFING CONTRACTOR, ALL COLLARS ON VENTS, ETC. BY ROOFING CONTRACTOR.
- HOSE BIBBS & WALL HYDRANTS SHALL BE A MIN. OF 18" ABOVE FR. GRADE.
- ALL EXTERIOR EXPOSED GAS PIPING TO BE PAINTED WITH WATER PROOF PAINT. COORDINATE WITH ARCHITECT ON COLOR.
- BACK TO BACK FLUSH WATER CLOSETS TO BE INSTALLED USING A DOUBLE "Y" CONNECTION. SEE RISER
- PIPING MUST CONFORM TO LOCAL AND STATE SEISMIC CODES.
- SMOKE TIGHT FOR PIPING PENETRATION THRU SMOKE TIGHT WALL.
- PIPING PENETRATING FIRE RATED WALLS SHALL HAVE UL FIRE RATED CAULKING
- C-CLAMPS ARE NOT TO BE USED WITHOUT A SEISMIC RETAINER STRAP ON ANY PROJECTS LOCATED WITHIN A SEISMIC ZONE.
- EXPOSED PIPING IN FINISHED SPACES SHALL BE PAINTED.
- NO PIPING SHALL BE RUN DIRECTLY OVER ANY ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR ETC.
- WHEN BRANCH LINE EXCEEDS 20FT IN LENGTH, AN ADDITIONAL WATER HAMMER ARRESTER SHOULD BE INSTALLED, USING BRANCH LINE PIPE SIZE, AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES. WATER HAMMER ARRESTER FOR A BRANCH SERVING A PIECE OF EQUIPMENT WITH A QUICK-CLOSING VALVE SHOULD BE PLACED AS CLOSE AS POSSIBLE TO THE EQUIPMENT ISOLATIO

## MATERIALS

### WATER PIPE -

ABOVE SLAB TYPE L COPPER; UNDERGROUND TYPE K COPPER  
COPPER PIPE FITTINGS SHALL BE WROT COPPER, SOCKET TYPE,  
MIL-F-1183 WITH 95/5 SOLDER OR "NO LEAD" SOLDER FOR POTABLE WATER  
DE-BURR ALL PIPE FOR CLEAN FINISH AND USE.

### SEWER -

WASTE PIPING BELOW SLAB - SCHEDULE 40 PVC  
WASTE AND VENT PIPING ABOVE SLAB CAN BE SCH. 40 PVC  
PVC PIPE FITTINGS 4" AND SMALLER SHALL BE ASTM D-1785,  
TYPE 1, GRADE 1, SOCKET TYPE WITH ASTM D-2564 SOLVENT  
CEMENT.

### COMPRESSED AIR -

MAIN PIPING TO BE BLACK STEEL SCHEDULE 40  
PIPING DROPS TO BE FLEXIBLE BLUE HOSE MADE FROM PVC  
WITH STEEL QUICK-CONNECT COUPLINGS (COORDINATE WITH OWNER)

### NATURAL GAS -

PIPING TO BE BLACK STEEL SCHEDULE 40 OR CARBON STEEL  
FITTINGS TO BE THREADED UP TO 2" IN DIA AND OVER MUST BE WELDED.  
OR FITTINGS TO BE CARBON STEEL PRESS-CONNECT AND CONFORM TO ASTM F3226.  
PRESS CONNECT FITTING SHALL HAVE A FEATURE TO DETECT UNPRESSED FITTINGS  
SHALL BE INTEGRATED INTO THE BODY OF THE FITTING

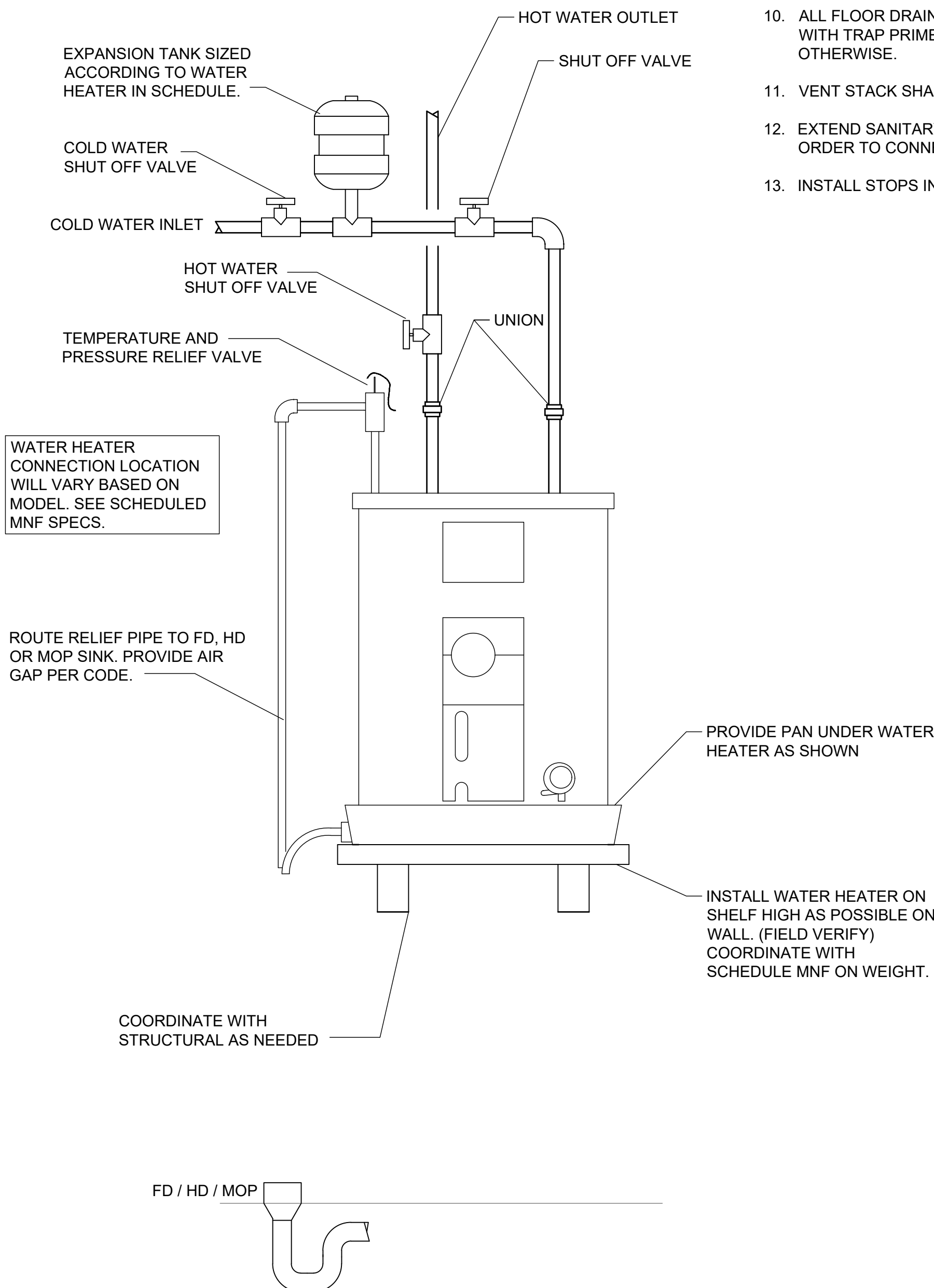
### SPECIFICATIONS

ALL INTERNAL WATER LINES INSULATED WITH 1" BLACK FOAM  
ALL ABOVE GROUND PIPING TO BE STENCILED EVERY 10'-0"

HANDICAP LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL  
BE INSULATED WITH THE FULLY MOLDED, TRUEBRO, HANDI  
LAV-GUARD INSULATION KIT WITH 3-PIECE INTERLOCKING TRAP  
ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE  
VALVE ASSEMBLIES. FASTENERS SHALL BE NYLON-TYPE

### HANDI LAV-GUARD KIT FITS:

1 1/4" OR 1 1/2" TUBULAR PLASTIC P-TRAPS  
1 1/4" OR 1 1/2" TUBULAR BRASS P-TRAPS  
1 1/4" OR 1 1/2" SEMI-CAST BRASS P-TRAPS  
1 1/4" STRAIGHT LAVATORY TAIL PIECE  
1/2" SWEAT ANGLE STOP VALVE, KEYS OR REGULAR  
1/2" COMP. ANGLE STOP VALVE, KEYS OR REGULAR  
3/8" I.P. ANGLE STOP VALVE, KEYS OR REGULAR  
3/8" O.D. SUPPLY TUBE



## FIXTURE CONNECTION SCHEDULE

DESCRIPTION	CONNECTION SIZE			
	WASTE	C.W.	H.W.	VENT
SINK	2"	1/2"	1/2"	1-1/2"
URINAL	2"	3/4"	-	1-1/2"
LAVATORY (TOILET/ADA)	2"	1/2"	1/2"	1-1/2"
WATER CLOSET (TANK TYPE)	3"	3/4"	-	1-1/2"
WATER CLOSET (FLUSH VALVE)	3"	1-1/2"	-	1-1/2"
SHOWER	3"	3/4"	3/4"	1-1/2"
MOP BASIN	3"	1/2"	1/2"	1-1/2"
DRINKING FOUNTAIN	2"	1/2"	-	1-1/2"
FLOOR DRAIN	3" OR 4"	1/2" T.P.	-	1-1/2"
TRAP PRIMER UNIT	-	1/2"	-	-

NOTE: FIXTURE CONNECTION SCHEDULE SHALL BE USED FOR TYPICAL CONNECTION. SEE RISER AND PLANS FOR ADDITIONAL WASTE, CW, HW, AND VENT SIZES.

## PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE DESCRIPTION
(P-1)	AQUARIUS SHOWER 40X40 (WHITE), MODEL #G3892. SEAL PER MFR'S RECOMMENDATIONS. PROVIDE AND INSTALL BATH/SHOWER VALVE TRIM KIT MODEL #K-TS46106-4G-CP.
(P-2) ADA	TANK TYPE ADA KOHLER MODEL NUMBER K-25077. 1.28 GPF TANK TYPE TOILET WITH A 3" DRAIN. PROVIDE OPEN FRONT TOILET SEAT TO MATCH EQUIPMENT IF NOT INCLUDED. PROVIDE ALL ACCESSORIES FOR COMPLETE UNIT INSTALLATION.
(P-3)	WATER HEATER BASED ON AO SMITH MODEL #DEL-20. 19 GALLON CAPACITY TANK WITH 2KW SIMULTANEOUS HEATING ELEMENT. INPUT HEAT AT 240V. PROVIDE ANY ADDITIONAL ACCESSORIES FOR COMPLETE UNIT INSTALLATION. SEE DETAIL. ROUTE WATER HEATER RELIEF VALVE PIPE & DRAIN PAN RUN OFF THRU WALL TO DISCHARGE HUB DRAIN. SEE PLAN.
(P-4)	GUY GRAY OUTLET BOX MODEL #82139 PROVIDE ANY OTHER ACCESSORIES NEEDED FOR COMPLETE UNIT INSTALLATION.

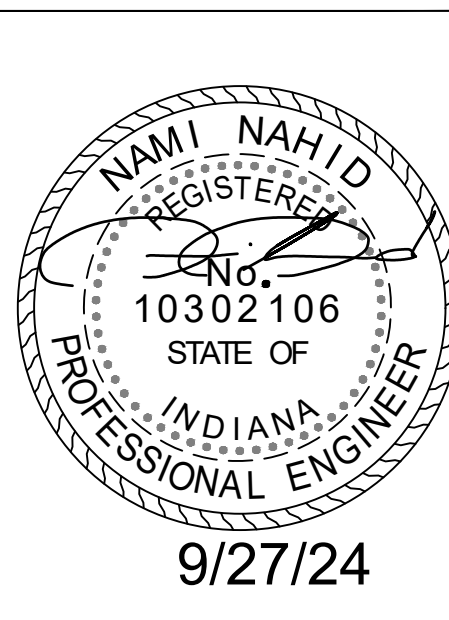
## PLUMBING ABBREVIATION LEGEND

NOTE: ALL ABBREVIATIONS MAY NOT APPLY

AFD	AREA FLOOR DRAIN	LAV	LAVATORY
AFF	ABOVE FINISH FLOOR	LB	POUND
AHJ	AUTHORITY HAVING JURISDICTION	MBH	THOUSAND BTU'S PER HOUR
ARCH	ARCHITECT	MFR	MANUFACTURER
BF	BOTTLE FILLER	MIN	MINIMUM
BFF	BELOW FINISH FLOOR	NG	NATURAL GAS
BOP	BOTTOM OF PIPE	NIC	NOT IN CONTRACT
BTU/H	BRITISH THERMAL UNIT / PER HOUR	NTS	NOT TO SCALE
CD	CONDENSATE DRAIN	OR	OPEN RECEPTACLE
CFM	CUBIC FEET PER MINUTE	PEX	CROSS-LINKED POLYETHYLENE
CO	CLEAN OUT	PK	PACKAGED UNIT
CPVC	CHLORINATED POLY VINYL CHLORIDE	PRV	PRESSURE REDUCING VALVE
CW	COLD WATER	PSI	PRESSURE PER SQUARE INCH
DF	DRINKING FOUNTAIN	PVC	POLY VINYL CHLORIDE
DN	DOWN	RTU	ROOF TOP UNIT
DTL	DETAIL	RPZ	REDUCED PRESSURE ZONE ASSEMBLY
DWG	DRAWING	SAN. SEWER	SANITARY SEWER
ECO	EXTERIOR CLEAN OUT	SHW	SHOWER
EM	EMERGENCY	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SQ FT	SQUARE FOOT
FD	FLOOR DRAIN	SQ IN	SQUARE INCH
FS	FLOOR SINK	SS	STAINLESS STEEL / SAN. SEWER
FT HD	FEET OF HEAD	TD	TRENCH DRAIN
GC	GENERAL CONTRACTOR	TDH	TOTAL DYNAMIC HEAD
GPM	GALLONS PER MINUTE	TH	TUBE HEATER
HB	HOSE BIBB	TYP	TYPICAL
HD	HUB DRAIN	UH	UNIT HEATER
HP	HORSE POWER	UR	URINAL
HW	HOT WATER	V	VENT
HWR	HOT WATER RETURN	VTR	VENT THRU ROOF
HZ	HERTZ	W/	WITH
IU	INDOOR UNIT	WC	WATER CLOSET / WATER COLUMN
KW	KILOWATT	WCO	WALL CLEAN OUT
		WH	WALL HYDRANT

## SHELF WATER HEATER DETAIL

NOT TO SCALE



**EFD Station #16 Renovations**  
2801 Washington Avenue  
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Fire Chief Tony Knight

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ACT JUSTLY, LOVE MERCY, WALK HUMBLY

### Plumbing Details & Schedules

SHEET NO:

**P-1.3**



HVAC ABBREVIATION LEGEND			
NOTE: ALL ABBREVIATIONS MAY NOT APPLY			
GENERAL/AIR		HYDRONIC	
ABV	ABOVE	KW	KILOWATT
AFB	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
ARCH	ARCHITECT	LB	POUND
ASHRAE	AMERICAN SOCIETY OF REFRIGERATION AND AIR CONDITIONING ENGINEERS	MA	MIXED AIR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MAX	MAXIMUM
BOP	BOTTOM OF PIPE	MC	MECHANICAL CONTRACTOR
BPD	BACK PRESSURE DAMPER	MD	MANUAL DAMPER
BTUH	BRITISH THERMAL UNITS PER HOUR	MFR	MANUFACTURER
CAD	CEILING AIR DIFFUSER	MIN	MINIMUM
CD	CONDENSATE DRAIN	MJA	MAKE-UP AIR UNIT
CFM	CUBIC FEET PER MINUTE	NC	NOISE CRITERIA
CPVC	CHLORINATED POLY VINYL CHLORIDE	NEC	NATIONAL ELECTRIC CODE
CT	COOLING TOWER	NG	NATURAL GAS
CUH	CABINET UNIT HEATER	NIC	NOT IN CONTRACT
DB	DRY BULB	NO	NUMBER
dB	DECIBEL	NTS	NOT TO SCALE
DDC	DIRECT DIGITAL CONTROL	OA	OUTSIDE AIR
DISC SW	DISCONNECT SWITCH	PD	PRESSURE DIFFERENCE
DN	DOWN	PC	PLUMBING CONTRACTOR
DWG	DRAWING	RA	RETURN AIR
DTL	DETAIL	RA	RETURN AIR
EA	EXHAUST AIR	RAG	RETURN AIR GRILLE
EAT	ENTERING AIR TEMPERATURE	SA	SUPPLY AIR
EC	ELECTRICAL CONTRACTOR	SAR	SUPPLY AIR REGISTER
EER	ENERGY EFFICIENCY RATIO	SD	SMOKE DAMPER
EFF	EFFICIENCY	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EMS	ENERGY MANAGEMENT SYSTEM	SLAD	SLOT LINEAR AIR DIFFUSER
EQUIP	EQUIPMENT	SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
ESP	EXTERNAL STATIC PRESSURE	ESP	EXTERNAL STATIC PRESSURE
°F	DEGREES FARENHEIT	SPEC	SPECIFICATION
FD	FIRE DAMPER	SQ FT	SQUARE FEET
FPM	FEET PER MINUTE	SQ IN	SQUARE INCHES
FRPM	FAN REVOLUTIONS PER MINUTE.	STN	SECTION
GA	GAUGE	T	THERMOSTAT
GC	GENERAL CONTRACTOR	TCC	TEMPERATURE CONTROL CONTRACTOR
GPM	GALLONS PER MINUTE	TOL	TOP OF LOUVER
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER	ΔT	TEMPERATURE DIFFERENCE
HORIZ	HORIZONTAL	TYP	TYPICAL
HP	HORSEPOWER	UL	UNDERWRITERS LABORATORY
HVAC	HEATING/VENTILATION/AIR CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE
HZ	HERTZ	WB	WET BULB
		W	WITH
		AAV	AUTOMATIC AIR VENT
		AS	AIR SEPARATOR
		B	BOILER
		BD	BLOW-DOWN PIPING
		BFP	BOILER FEED PUMP
		BFV	BUTTERFLY VALVE
		WC	WATER COOLED CHILLER
		CWS	CHILLED WATER SUPPLY
		CWS	CHILLED WATER RETURN
		P	CIRCULATING PUMP
		ES/FM	END SUCTION/FRAME MOUNT
		EWT	ENTERING WATER TEMPERATURE
		FT HD	FEET HEAD
		F&T	FLOAT AND THERMOSTATIC
		GLY	GLYCOL
		GV	GATE VALVE
		HW	HOT WATER
		LWT	LEAVING WATER TEMPERATURE
		MV	MOTORIZED VALVE
		NC	NORMALLY CLOSED
		NO	NORMALLY OPEN
		NPSH	NET POSITIVE SUCTION HEAD
		OS&Y	OUTSIDE SCREW & YOLK
		PRV	PRESSURE REDUCING VALVE
		PSIA	POUNDS/SQUARE INCH - ABSOLUTE
		PSIG	POUNDS/SQUARE INCH - GAUGE
		PVC	POLYVINYL CHLORIDE
		T	TANK
		TDH	TOTAL DYNAMIC HEAD

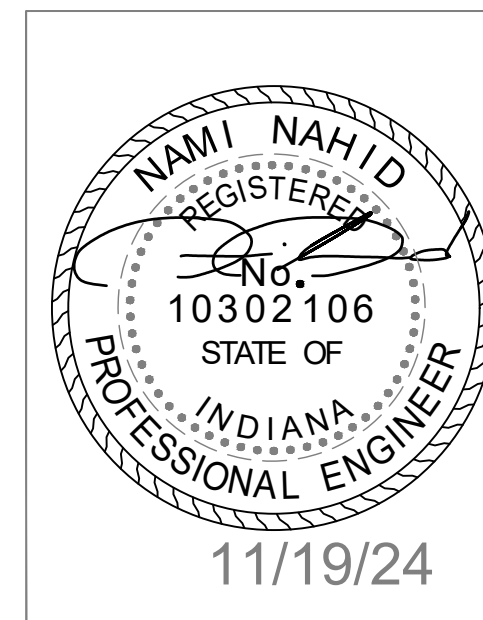
HVAC SYMBOLS LEGEND (AIR)			
NOTE: NOT ALL SYMBOLS MAY APPLY			
	- THERMOSTAT, 48" AFF.		- EXHAUST / RETURN / COMBUSTION / OUTSIDE AIR UP.
	- MOTOR OPERATED DAMPER - PROVIDE ACCESS FOR SERVICE IN BOTH DUCT AND ARCHITECTURAL SURFACES.		- SUPPLY AIR DUCT UP
	- PRESSURE SENSOR		- SUPPLY AIR DUCT DOWN.
	- FIRE DAMPER - PROVIDE IN EITHER VERTICAL OR HORIZONTAL DUCT. INCLUDE DUCT ACCESS DOOR & ARCHITECTURAL SURFACE ACCESS DOOR.		- EXHAUST / RETURN / COMBUSTION / OUTSIDE AIR DUCT DOWN.
	- SMOKE DAMPER - PROVIDE IN EITHER VERTICAL OR HORIZONTAL DUCT. INCLUDE DUCT ACCESS DOOR & ARCHITECTURAL SURFACE ACCESS DOOR.		- DUCT TEE / ELL FITTINGS WITH SMACNA TURNING VANES. PLACE IN ACCORDANCE WITH SMACNA.
			- DUCT OFFSET UP OR DOWN WITH TWO SMOOTH RADIUS FITTINGS.
			- MANUAL VOLUME DAMPER (OPPOSED BLADE)
			- CEILING AIR DIFFUSER (ROUND NECK) WITH 4-WAY THROW
			- SLAD/RLAD: SUPPLY/RETURN LINEAR AIR DIFFUSER

HVAC SYMBOLS LEGEND (HYDRONICS)			
NOTE: NOT ALL SYMBOLS MAY APPLY			
	- BUTTERFLY VALVE - 2-1/2" AND LARGER		- TEMPERATURE GAUGE
	- BUTTERFLY AUTOMATIC CONTROL VALVE		- SPHERICAL RUBBER VIBRATION ISOLATOR FOR PUMP AND WATER APPLICATIONS. (360°)
	- BALL VALVE		- TRIPLE DUTY VALVE
	- PIPING WITH DIRECTION OF FLOW		- STEEL FLEXIBLE CONNECTOR
	- CHECK VALVE		- SUCTION DIFFUSER
	- BLIND FLANGE OR CAP		- THREE WAY AUTOMATIC CONTROL VALVE
	- PIPING DOWN		- GATE VALVE
	- PIPING UP		- GATE VALVE WITH OUTSIDE SCREW & YOKE
	- PRESSURE GAUGE		- HEAT TRACE WITH JACKET FOR EXTERIOR PIPING LINES
			- AUTOMATIC AIR VENT.
			- MANUAL AIR VENT.
			- STRAINER (SCREEN TO BE REMOVED AFTER 80 HRS OF USE)

- ### GENERAL NOTES:
- ALL WORK SHALL BE DONE BY LICENSED CONTRACTOR.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
  - COORDINATE WORK AND SCHEDULES WITH OWNER, PROJECT MANAGER, OTHER CONTRACTORS AND APPROPRIATE UTILITY COMPANIES.
  - ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS INCLUDING ADDENDA, APPLICABLE CODES AND STANDARDS.
  - CONTRACTOR SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, ETC. FOR A COMPLETE OPERABLE INSTALLATION. ALL MATERIALS SHALL BE NEW, SPECIFICATION GRADE AND UL LISTED UNLESS OTHERWISE NOTED.
  - PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
  - PRIOR TO START OF WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES AND DIFFUSERS.
  - ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN PROPER MANNER. ALL EQUIPMENT REMOVED SHALL BE DISPOSED, COORDINATE WITH OWNER FOR ANY ITEMS THEY MAY REQUEST.
  - THERE SHALL BE NOTHING ABANDONED IN PLACE UNLESS NOTED.
  - ALL TRADES SHALL COORDINATE THE INSTALLATION AND ROUTING OF THEIR WORK WITH OTHER TRADES THROUGH THE GENERAL CONTRACTOR.
  - LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELEC PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
  - CONTRACTOR SHALL VISIT SITE TO VERIFY ALL EXISTING CONDITIONS THAT MAY AFFECT WORK FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
  - STORE MATERIALS AS DIRECTED. PROTECT STORED MATERIALS AND INSTALLED FROM DAMAGE.
  - REMOVE DIRT, DEBRIS AND ANY UNUSED MATERIAL FROM JOBSITE REGULARLY AND DISPOSE OF BY PROPER LEGAL METHODS.
  - PATCH AND FINISH CONSTRUCTION DAMAGE DURING THE COURSE OF HVAC INSTALLATION. PROVIDE PROPER SEALS AT ALL WALLS AND ROOF PENETRATIONS.
  - PERFORM TESTING AND MAKE FINAL ADJUSTMENTS TO VERIFY PERFORMANCE OF ALL SYSTEMS AND EQUIPMENT.
  - MAINTAIN "AS BUILTS" RECORD DRAWINGS OF ALL INSTALLED ITEMS AND PROVIDE TO PROJECT MANAGER AT COMPLETION OF PROJECT.
  - CONTRACTOR TO INCLUDE REQUIRED EXTENDED WORK HOURS, WEEKENDS AND HOLIDAY OVERTIME FOR DISCONNECTION AND/OR TIE INS OF UTILITY SYSTEMS REQUIRING ISOLATION AND/OR SHUT DOWNS OF THE OWNERS SYSTEMS.
  - ALL WORK SHALL BE COORDINATED WITH PROJECT PHASING REQUIREMENTS.
  - ALL PENETRATIONS IN FIRE RATED AND SMOKE RATED ASSEMBLIES SHALL BE PROPERLY FIRE STOPPED PER UL LISTED STANDARD.
  - PROVIDE SLEEVES AND OR OPENINGS TO RUN PIPES AND DUCTWORK THROUGH FOUNDATIONS, WALLS, AND ROOF.
  - MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION, OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
  - ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
  - ALL THERMOSTATS SHALL BE MOUNTED AT 48" AFF. UNLESS OTHERWISE NOTED. IF OTHER SWITCHES ARE IN SAME LOCATION, MOUNT THERMOSTAT AT SAME LEVEL AS OTHER SWITCHES.
  - ALL MECHANICAL EQUIPMENT INSTALLED SHALL BE INSTALLED TO MANUFACTURERS RECOMMENDATIONS FOR CLEARANCES.
  - PROVIDE TURNING VANES IN ALL DUCTWORK.
  - ALL OPENINGS IN PRECAST SLAB STRUCTURES TO BE COORDINATED WITH MANUFACTURE OF PRE CAST SLAB PRIOR TO CONSTRUCTION. ANY DRILLING OF HOLES OR CUTTING OPENINGS TO BE APPROVED BY PRE CAST SLAB PROVIDER AND STRUCTURAL ENGINEER PRIOR TO DRILLING.
  - LOCATION OF PIPING, DUCTWORK, AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCES.
  - INSTALL ALL EXPOSED PIPING AND DUCTWORK AS HIGH AS POSSIBLE IN ROOMS WITHOUT CEILINGS.
  - CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES.
  - COORDINATE THE EXACT LOCATION OF DIFFUSERS AND RETURN GRILLES WITH THE LOCATION OF SPRINKLER HEADS, LIGHTS AND OTHER CEILING DEVICES
  - DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ALL SPECIFIC ROUTING ELEMENTS ARE NOT INCLUDED FOR CLARITY OF DRAWINGS. THE DRAWINGS MUST BE EXAMINED FULLY IN CONJUNCTION WITH ALL OTHER DISCIPLINES TO IDENTIFY ROUTING PATHS AND ELEMENTS.
  - ALL EXPOSED REFRIGERANT PIPING SHALL BE INSTALLED WITH HIDE A PIPE SYSTEM. EXTERIOR AND INTERIOR PIPING TO RECEIVE PIPING COVERS OVER ALL EXPOSED PIPING. COLOR TO BE SELECTED BY ARCHITECT. SIZE COVER BASED ON NUMBER OF PIPES.

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Fire Chief Tony Knight

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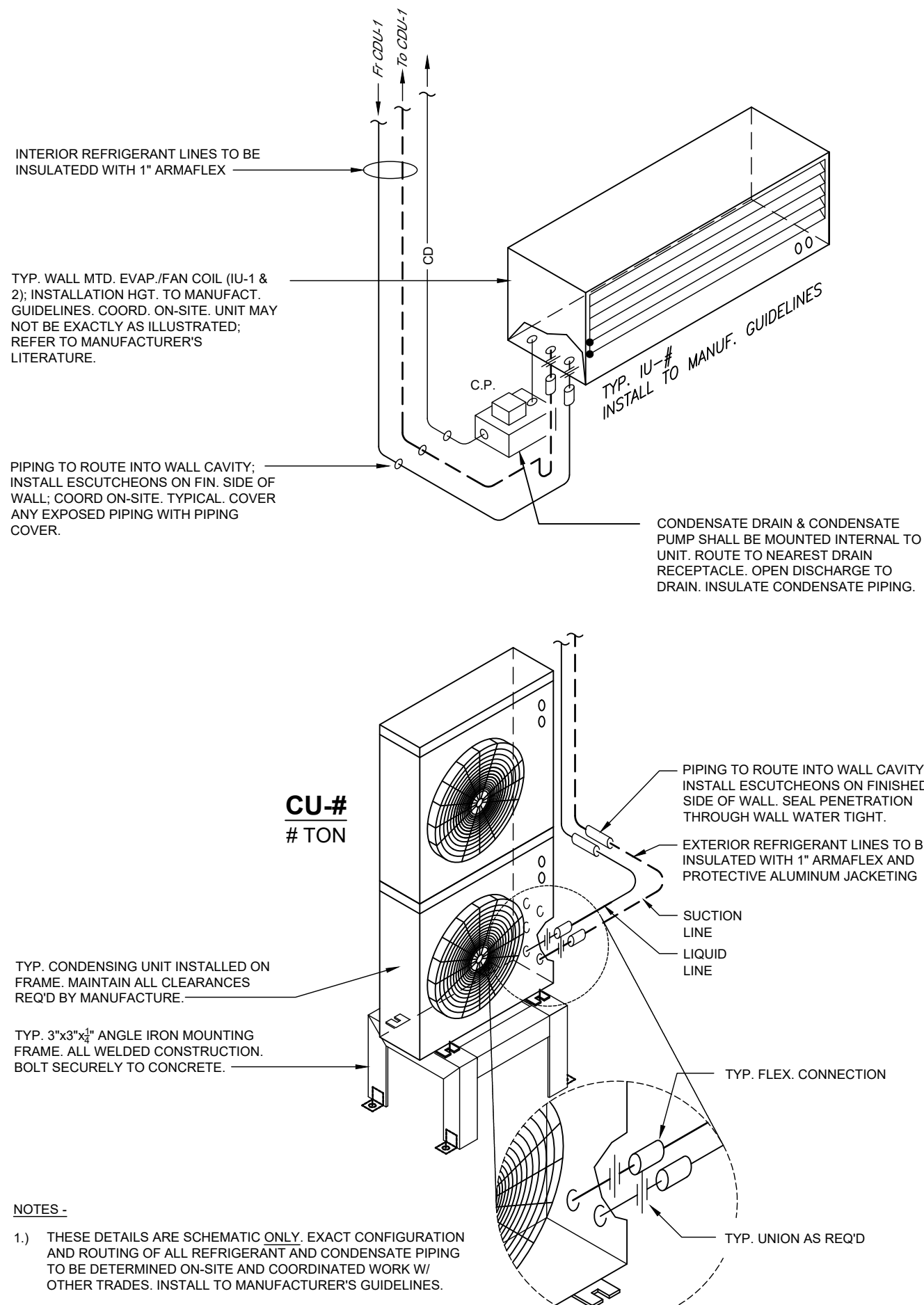
**MECHANICAL • ELECTRICAL • PLUMBING**

1830 DESTINY LANE, SUITE 113  
BOWLING GREEN, KY  
(270) 599-0182  
ACT JUSTLY, LOVE MERCY, WALK HUMBLLY

**Mechanical Cover**

SHEET NO:  
**M-0.0**





## MINI SPLIT DETAIL - WALL MOUNT

NOT TO SCALE

### EQUIPMENT SCHED.

#### MINI-SPLIT SYSTEMS

CU-1/MS-1  
 MODEL: DAIKIN  
 MS-1: FXTB24BXVJU  
 WALL MOUNT HEAT PUMP  
 COOLING CAPACITY: 2 TON  
 HEATING OUTPUT: 24K BTU/h

OUTDOOR UNIT:  
 CU-1: RXB24BXVJU  
 VOLTAGE: 208-230 / 1PH / 60  
 MCA: 16.55 AMPS  
 MCB: 20 AMPS

NOTES:  
 1) ELECTRICAL CONTRACTOR TO PROVIDE A MEANS OF DISCONNECT AT UNIT.  
 2) PROVIDE AND INSTALL WALL MOUNTED, PROGRAMMABLE THERMOSTAT, AT INDICATED LOCATIONS.

#### DRG

SD-1  
 12"x12" SQUARE CONE, OFF-WHITE, CEILING / LAY-IN

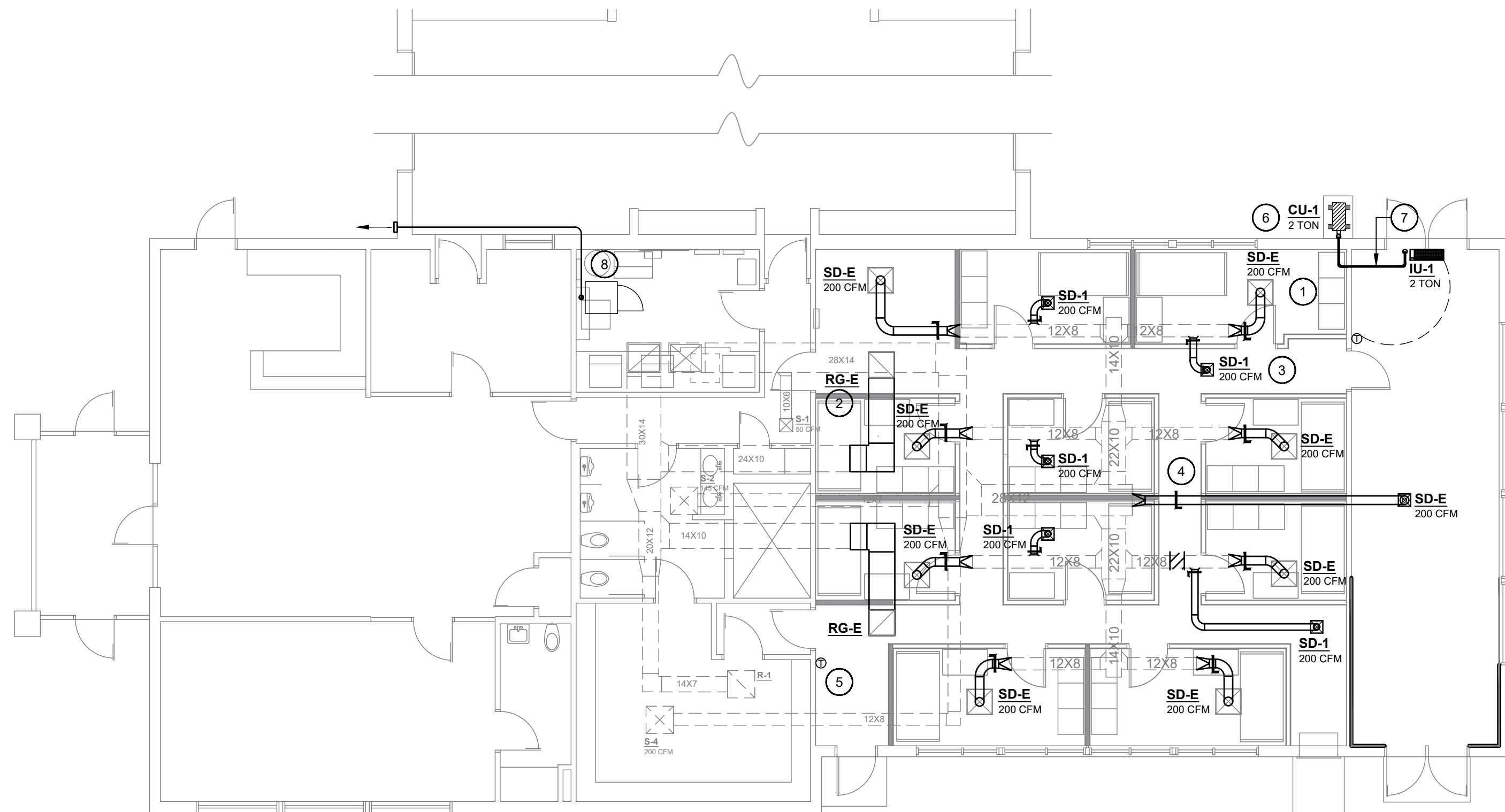
NOTES:  
 1) BASED ON PRICE MODEL ASCD  
 2) PROVIDE COVER INSULATION OVER DIFFUSER  
 3) PROVIDE W/ OPTIONAL STEEL-OPOSED BLADE DAMPER

#### DUCTWORK AND AIR DEVICES INSULATION

DUCTWORK AS PER LATEST SMACNA GUIDELINES FOR LOW PRESSURE SYSTEM.  
 INSULATE ALL (SUPPLY, RETURN, EXHAUST, OUTSIDE AIR) WITH FIBERGLASS INSULATION (R-8) AND VAPOR BARRIER WRAP.  
 ALL DIFFUSERS AND GRILLES SHALL HAVE ABOVE DIFFUSER MOLDED INSULATION ON FACE PLATES.  
 INSULATE ALL EXPOSED OUTSIDE DUCTWORK WITH 1" (R-8) DUCKBOARD WITH ALUMINUM COVER. SEAL WATER TIGHT.  
 PROVIDE SLOPE ON TOP OF ALL DUCTWORK TO PREVENT WATER BUILD UP.

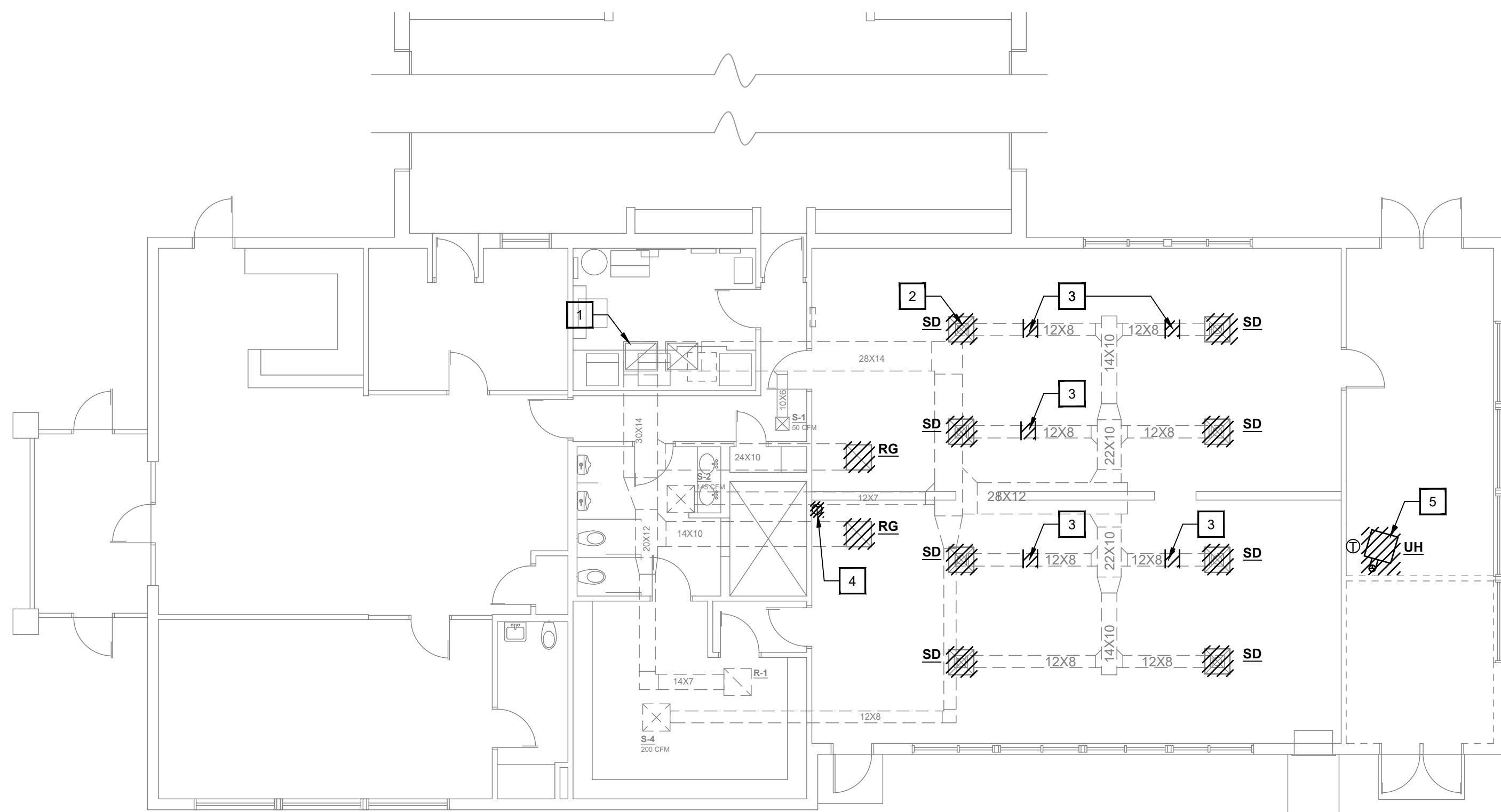
#### DRAIN PIPING

UNITS SHALL HAVE PVC CONDENSATE DRAIN PIPING ROUTED TO CONDENSATE MAIN, FLOOR DRAIN, OR JAN. SINK.  
 SLOPE PIPING FOR GRAVITY DRAIN, IF POSSIBLE.  
 PROVIDE PUMP FOR COND. LINE, AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS.  
 INSULATE CONDENSATE LINE WITH 3/4" ARMAFLEX INSULATION THROUGHOUT, TO DRAIN POINT LOCATION.



### MECHANICAL FLOOR PLAN

SCALE: 1/8"=1'-0"



### MECHANICAL DEMOLITION PLAN

SCALE: 1/8"=1'-0"

### GENERAL NOTES:

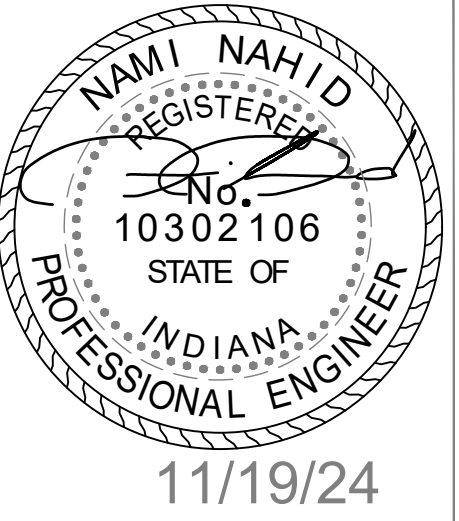
- ALL WORK SHALL BE DONE BY A LICENSED CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTES OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- ALL TRADES SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COST, AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.

### MECH. NOTES:

- PROVIDE AND INSTALL NEW MINI-SPLIT CONDENSING UNITS ON NEW EQPT STAND. ROUTE REFRIGERANT PIPING UP EXTERIOR WALL. INSTALL HIDE A PIPE SYSTEM OVER ALL EXPOSED REFRIGERANT PIPING.
- ROUTE REF. PIPING FROM CONDENSING UNIT TO ASSOCIATED INDOOR UNIT. INSULATE REF. PIPE LINE WITH 3/4" BLACK FOAM. INSTALL HIDE A PIPE SYSTEM OVER ALL EXPOSED REFRIGERANT PIPE. SEAL ANY OPENINGS WATER TIGHT. PROVIDE PIPE SUPPORT, AS REQUIRED BY MANUFACTURER. ROUTE CONDENSATE LINE TO NEAREST DRAIN POINT. (TYP.)
- ROUTE NEW SUPPLY/RETURN DUCTWORK FROM EXISTING DUCTWORK TO NEW CEILING DIFFUSERS.
- PROVIDE & INSTALL WIFI-READY DIGITAL THERMOSTAT FOR HVAC SYSTEM. (TYP.)
- INSTALL MANUAL DAMPER IN EACH SUPPLY BRANCH. BALANCE ACCORDING TO FLOW, TYPICAL FOR ALL CEILING DIFFUSERS. (TYP.)
- RELOCATE EXISTING THERMOSTAT FOR CONTROL OF AHU-2.
- PROVIDE & INSTALL WALL MOUNTED DRYER DUCT CONNECTION BOX. ROUTE 48" RIGID DUCTWORK THROUGH UP TO ABOVE CEILING LEVEL AND INTO APPARATUS BAY. ROUTE THROUGH SIDEWALL DRYER DISCHARGE CAP. COORDINATE FINISH WITH ARCHITECT.

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EFD Station #16 Renovations

2801 Washington Avenue  
 Evansville, IN 47714  
 Fire Chief Tony Knight

### DEMOLITION NOTES

- EXISTING HVAC UNIT TO BE RE USED. SERVICE EXISTING UNIT.
- DISCONNECT AND RELOCATE EXISTING DIFFUSERS. RELOCATE TO NEW LOCATION PER PLAN. SEE NEW PLAN FOR ADDITIONAL DETAILS. FIELD VERIFY ALL EXISTING CONDITIONS.
- REMOVE PORTION OF EXISTING DUCT FOR NEW SUPPLY BRANCHES.
- DISCONNECT AND RELOCATE EXISTING THERMOSTAT. SEE NEW PLAN FOR ADDITIONAL DETAILS.
- REMOVE UH, EXHAUST DUCTWORK, AND ASSOCIATED THERMOSTAT.

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Mechanical  
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## ELECTRICAL LEGEND - LIGHTING

SYMBOL	DESCRIPTION
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED. REMOTE HEAD, CONTROLLED BY EXIT LIGHT.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	WALL MOUNTED EMERGENCY LIGHT AS SCHEDULED.
	WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED. SYMBOL INDICATES FIXTURE TYPE WHEN SHOWN ON LIGHTING PLANS ADJACENT TO FIXTURE SYMBOL. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE REQUIREMENTS.
	OUTLET BOX AND 20-AMP, SINGLE-POLE SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, THREE-WAY SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, FOUR-WAY SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, SINGLE-POLE DIMMER SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, THREE-WAY DIMMER SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, COMBINATION SWITCH AND OCCUPANCY SENSOR. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. OTHER TEXT INDICATES SWITCH CONFIGURATION AND CIRCUIT SWITCHED AS OTHER NON-OCCUPANCY SENSOR SWITCHES.
	OUTLET BOX AND 10-AMP, COMBINATION SWITCH AND LOW-VOLTAGE (0-10V) DIMMER. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. OTHER TEXT INDICATES SWITCH CONFIGURATION AND CIRCUIT SWITCHED AS OTHER NON-DIMMER SWITCHES.
	CEILING-MOUNT OCCUPANCY SENSOR. THE LETTER(S) DESIGNATION ADJACENT TO THE SYMBOL (IF SHOWN) INDICATE SWITCHING ZONES TO BE CONTROLLED BY THE SENSOR. IF A LETTER DESIGNATION IS NOT SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING FIXTURES WITHIN THE ROOM.
	WALL-MOUNT OCCUPANCY SENSOR. THE LETTER(S) DESIGNATION ADJACENT TO THE SYMBOL (IF SHOWN) INDICATE SWITCHING ZONES TO BE CONTROLLED BY THE SENSOR. IF A LETTER DESIGNATION IS NOT SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING FIXTURES WITHIN THE ROOM.

## ELECTRICAL LEGEND - FIRE ALARM

SYMBOL	DESCRIPTION
	CEILING MOUNT SMOKE ALARM.
	MANUAL PULL STATION.
	WALL MOUNT AUDIO-VISUAL NOTIFICATION DEVICE.
	WALL MOUNT VISUAL-ONLY NOTIFICATION DEVICE.
	WALL MOUNT AUDIO-ONLY NOTIFICATION DEVICE.
	CEILING MOUNT VISUAL-ONLY NOTIFICATION DEVICE.
	CEILING MOUNT AUDIO-ONLY NOTIFICATION DEVICE.
	CEILING MOUNT AUDIO-VISUAL NOTIFICATION DEVICE.
	SMOKE DETECTOR WITH A 520MHZ SOUNDER BASE.
	CEILING MOUNT HEAT DETECTOR.
	DUCT SMOKE DETECTOR.
	FIRE ALARM CONTROL PANEL.
	FIRE ALARM ANNUNCIATOR PANEL.
	FLOW SWITCH.
	OS&Y TAMPER SWITCH.
	EXTERIOR GRADE FIRE BELL.

## ELECTRICAL LEGEND - POWER

SYMBOL	DESCRIPTION
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 48 INCHES ABOVE FINISHED FLOOR TO CENTER, OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE.
	CEILING MOUNTED OUTLET WITH 20A, 125V DUPLEX RECEPTACLE.
	WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. MOUNT 48 INCHES ABOVE FINISHED FLOOR TO CENTER, OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH SIMPLEX RECEPTACLE AS NOTED ON POWER PLANS.
	FLOOR OUTLET WITH 125V, 20A, DUPLEX RECEPTACLE AND DATA OUTLET. PROVIDE WITH LOW VOLTAGE BARRIER.
	FLOOR OUTLET WITH 125V, 20A, DOUBLE-DUPLEX RECEPTACLE AND DATA OUTLET. PROVIDE WITH LOW VOLTAGE BARRIER.
GFCI	SYMBOL INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS.
WP	SYMBOL INDICATES WEATHER RATED RECEPTACLE AND WEATHER-PROOF WHILE-IN-USE TYPE ENCLOSURE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS.
USB	SYMBOL INDICATES USB WALL OUTLET CHARGER WITH 20A, 125V DUPLEX RECEPTACLE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS. PROVIDE GFCI AND WEATHER PROTECTION AS NECESSARY.
TV	SYMBOL INDICATES TV LOCATION WHEN SHOWN ADJACENT TO DEVICE SYMBOLS ON PLANS. PROVIDE AND INSTALL A DATA JACK AND RECEPTACLE AT 72" A.F.F., CENTERED ABOVE A DATA JACK AND RECEPTACLE AT 18" A.F.F. UNLESS NOTED OTHERWISE.
1,3,5,...	NUMBER TEXT INDICATES CIRCUIT NUMBERS WHEN SHOWN ADJACENT TO SYMBOLS ON PLAN.
a,b,c,...	LOWER-CASE LETTER TEXT INDICATES CIRCUIT SWITCHING ARRANGEMENT WHEN SHOWN WITHIN OR ADJACENT TO SYMBOLS ON PLAN.
+48"	NUMBER TEXT INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF OUTLET BOX WHEN SHOWN ADJACENT TO SYMBOLS ON PLAN.
	WALL-MOUNT JUNCTION BOX AS NOTED ON PLANS.
	CEILING-MOUNT JUNCTION BOX AS NOTED ON PLANS.
	JUNCTION BOX WITH PHOTO EYE.
	WALL-MOUNT PUSH BUTTON FOR ADA DOORS. MOUNTED AT ADA REQUIRED HEIGHTS.
30A/3 NEMA 3R <input checked="" type="checkbox"/>	NON-FUSIBLE DISCONNECT SWITCH. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
30A/3 NEMA 3R <input type="checkbox"/>	FUSIBLE DISCONNECT SWITCH. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
30A/3 NEMA 3R <input checked="" type="checkbox"/>	MOTOR STARTER, DISCONNECT SWITCH COMBO. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
	CIRCUIT. NUMBER OF CROSSBARS INDICATE QUANTITY OF CONDUCTORS REQUIRED. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH TRADE SIZE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG.
	HOME RUN TO PANEL. NUMBER OF ARROW HEADS INDICATES NUMBER OF CIRCUITS. PREFIX INDICATES PANEL NOMENCLATURE. NUMBERS INDICATE CIRCUIT NUMBERS.

## ELECTRICAL LEGEND - TELCOM

SYMBOL	DESCRIPTION
	VOICE/DATA OUTLET. MOUNT OUTLET BOX AT 18 INCHES A.F.F. TO CENTER (EVEN WITH ADJACENT RECEPTACLE IF PRESENT) OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPLASH TO CENTER, UNLESS NOTED OTHERWISE. PROVIDE 1 INCH CONDUIT WITH PULLSTRING FROM OUTLET BOX TO NEAREST ACCESSIBLE CEILING CAVITY. BUSH CONDUIT ENDS. OUTLET BOX SHALL BE 4 INCH SQUARE BY 2-3/4 INCH DEEP WITH A SINGLE GANG PLASTER RING, UNLESS NOTED OTHERWISE. "W" TEXT ADJACENT TO SYMBOL DENOTES WALL PHONE LOCATION (MOUNT AT 56 INCHES A.F.F. TO CENTER). WHERE SHOWN ADJACENT TO A POWER RECEPTACLE, INSTALL OUTLET AT SAME HEIGHT, WITHIN 6 INCHES OF RECEPTACLE, UNLESS OTHERWISE NOTED.
	VIDEO MONITOR OUTLET. MOUNT OUTLET BOX AT 18 INCHES A.F.F. TO CENTER (EVEN WITH ADJACENT RECEPTACLE). PROVIDE 1 INCH CONDUIT FROM OUTLET BOX TO NEAREST ACCESSIBLE ATTIC SPACE. BUSH CONDUIT ENDS. OUTLET BOX SHALL BE 4 INCH SQUARE BY 2-3/4 INCH DEEP WITH A SINGLE GANG PLASTER RING, UNLESS NOTED OTHERWISE.
	CEILING MOUNTED COMMUNICATIONS OUTLET BOX FOR WIRELESS ACCESS POINT. OUTLET BOX SHALL BE FOUR INCHES WITH A SINGLE GANG PLASTER RING.

## ELECTRICAL SPECIFICATIONS:

- ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND WITH ALL OTHER APPLICABLE STATE AND LOCAL CODES.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT AS INDICATED ON THE DRAWINGS. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF FIRST-CLASS CONSTRUCTION, AND SHALL BE THE PRODUCT OF AN ESTABLISHED AND REPUTABLE MANUFACTURER AND SHALL BE DESIGNED TO PERFORM THE SERVICE REQUIRED.
- ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE ENTIRE ELECTRICAL SYSTEM SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AND ACCORDING TO GOOD PRACTICE.
- ALL MATERIALS USED IN THE WORK SHALL BE APPROVED BY THE UNDERWRITER'S LABORATORIES, INC., AND SHALL BEAR THEIR LABEL WHERE SUCH APPROVAL IS AVAILABLE FOR THE TYPE OF MATERIAL.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROCURE ALL PERMITS, CERTIFICATES, AND LICENSES REQUIRED OF HIM BY LAW FOR THE EXECUTION OF HIS WORK.
- THE CONTRACTOR SHALL VISIT SITE TO OBTAIN KNOWLEDGE OF EXACT CIRCUIT DISTANCES AND INSTALLATION REQUIREMENTS.
- CONDUCTORS NO. 8 AND LARGER SHALL BE CODE GRADE THWN STRANDED COPPER WIRE. CONDUCTORS SMALLER THAN NO. 8 SHALL BE CODE GRADE THHN WIRE. SOLID OR STRANDED COPPER. MINIMUM WIRE SIZE SHALL BE NO. 12, UNLESS NOTED OTHERWISE.
- CONDUIT SHALL BE AS FOLLOWS: EMT OR MC CABLE SHALL BE USED FOR CONCEALED INTERIOR RACEWAYS AND ABOVE LAY-IN CEILINGS. LIQUID TIGHT FLEXIBLE METAL CONDUIT WITH LIQUID TIGHT CONNECTIONS SHALL BE USED FOR ALL MECHANICAL EQUIPMENT CONNECTIONS, FLEXIBLE METALLIC (NON-LIQUID-TIGHT) CONDUIT SHALL BE USED FOR LAY-IN TYPE LIGHTING FIXTURES. CONDUIT SHALL BE 3/4" MINIMUM SIZE. THE USE OF CRIMP TIGHT CONNECTORS FOR CONDUIT WILL NOT BE ALLOWED. UNDERGROUND CONDUIT SHALL BE PVC EXCEPT AT CONDUIT BEND THROUGH FLOOR WHERE CONDUIT SHALL BE RIGID. ALL WORK PER NEC.
- DISCONNECT SWITCHES SHALL BE "HEAVY-DUTY" RATED. NEMA 1, 3R, OR 4X AS REQUIRED.
- WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE 20A, 125VAC "SPECIFICATION GRADE", WITH METAL DEVICE PLATE. SWITCH DEVICES SHALL BE HUBBELL 1221 OR APPROVED EQUAL BY BRYANT, ARROW-HART, OR PASS AND SEYMOUR. RECEPTACLES SHALL BE HUBBELL #5362 SERIES OR APPROVED EQUAL BY BRYANT, ARROW-HART, OR PASS AND SEYMOUR. UTILIZE GFI WHERE INDICATED.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER ARCHITECTURAL FRONT END DOCUMENTS ON ALL ELECTRICAL EQUIPMENT INCLUDING (BUT NOT LIMITED TO) LIGHT FIXTURES, SWITCHGEAR/PANELBOARDS, WIRING DEVICES, DATA/VOICE CABLING, DISCONNECT SWITCHES/CONTACTORS/TIME CLOCK, MOTION SENSORS, TRANSFORMERS AND DATA/TELEPHONE SUPPORT SYSTEMS.
- EXAMINE ALL ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC CONSTRUCTION DRAWINGS. COOPERATE WITH OTHER TRADES IN LOCATING COMPONENTS IN ORDER TO AVOID CONFLICT WITH OTHER TRADES WORK. NO CLAIM FOR COSTS WILL BE ALLOWED FOR RELOCATING EQUIPMENT, ETC. THAT INTERFERES WITH OTHER TRADES WORK.
- IN ADDITION TO EQUIPMENT GUARANTEE PROVIDED BY MANUFACTURER, THE CONTRACTOR SHALL FURNISH OWNER A WRITTEN GUARANTEE AGAINST DEFECT IN ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK. DURING GUARANTEE PERIOD AND WITHOUT EXPENSE TO THE OWNER, REPAIR ALL DEFECTS IN WORKMANSHIP OR MATERIAL PROVIDED.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL INSTALLATION. THE EXACT LOCATION AND/OR ROUTING OF CONDUIT, RECEPTACLES, PANELS ETC., SHALL BE DETERMINED IN THE FIELD. MAKE REASONABLE MODIFICATIONS IN THE INSTALLATION AS REQUIRED BASED ON FIELD CONDITIONS.
- AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF ALL RUBBISH AND DISCARDED MATERIALS.
- THE ELECTRICAL CONTRACTOR SHALL KEEP ACCURATE RECORDS OF INSTALLATION THAT DEVIATED FROM THE DRAWINGS. AT THE COMPLETION OF PROJECT, CONTRACTOR SHALL PRESENT TO THE OWNER A MARKED UP SET OF AS BUILT PRINTS WITH INDICATED CHANGES.
- ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROVIDED WITH PROPERLY SIZED SLEEVES. SEAL ALL SLEEVES WITH APPROPRIATE CAULK.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE TRAINING TO THE OWNER ON ALL ELECTRICAL EQUIPMENT.
- CIRCUIT BREAKER PANELBOARDS SHALL HAVE AIC RATING AS INDICATED ON BUSSING DIAGRAM. PANELBOARDS SHALL BE SQUARE D OR APPROVED EQUAL BY GE, CUTLER HAMMER, OR SIEMENS. CONTRACTOR SHALL PROVIDE DETAILED TYPED PANELBOARD DIRECTORY.
- ALL HVAC, PLUMBING AND ELECTRICAL EQUIPMENT, PIPES, DUCTWORK, CONDUIT, ETC. SHALL BE RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINTS SHALL MAINTAIN EQUIPMENT, PIPING, DUCTWORK AND CONDUIT IN A CAPTIVE POSITION. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED TO MEET THE SEISMIC REQUIREMENTS AS DEFINED IN THE LATEST ISSUE OF THE KENTUCKY BUILDING CODE OR LOCAL JURISDICTION BUILDING CODE.
- EC SHALL BE RESPONSIBLE FOR LOW VOLTAGE DATA BACKBOX, CONDUIT, AND PULL STRING UNLESS NOTED OTHERWISE.
- FIRE ALARM DESIGN IS FOR INTENT PURPOSES ONLY. ALL DEVICES, PANELS, ETC. SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
- FIRE ALARM CONTRACTOR SHALL SUBMIT FULLY DESIGNED FIRE ALARM DRAWINGS TO AHJ FOR COMPLETE REVIEW.
- DUCT SMOKE DETECTORS SHALL BE PROVIDED FOR ALL HVAC UNITS SUPPLYING 2000 CFM OR GREATER.
- EC SHALL BE RESPONSIBLE FOR UPSIZING CONDUCTOR SIZING AS REQUIRED TO ACHIEVE A VOLTAGE DROP OF LESS THAN 5% ON BRANCH CIRCUITS.

## GENERAL NOTES:

- ALL WORK SHALL BE DONE BY A LICENSED CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTES OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- ALL TRADES SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COST, AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES, INCLUDING THE NEC.
- ALL ELECTRICAL EQUIPMENT INSTALLED SHALL MEET MANUFACTURER SPECIFICATIONS.

PANEL 'C' 120/240 VOLT 200 AMP SINGLE PHASE 3 WIRE MCB PANELBOARD - 65KAIC									
CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	A	B	CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE
1	CU-1	35A/2	2#8, 1#8 G, 1" C	3984		2	SPARE	20A/1	
3					3984	4	SPARE	20A/1	
5	FITNESS AREA DEDICATED REC.	20A/1	2#12, 1#12 G, 3/4" C	2460		6	BUNKS 1 & 2	20A/1	2#12, 1#12 G, 3/4" C
7	FITNESS AREA DEDICATED REC.	20A/1	2#12, 1#12 G, 3/4" C		2280	8	BUNKS 3 & 4	20A/1	2#12, 1#12 G, 3/4" C
9	FITNESS AREA DEDICATED REC.	20A/1	2#12, 1#12 G, 3/4" C	2280		10	BUNKS 5 & 6	20A/1	2#12, 1#12 G, 3/4" C
11	FITNESS AREA DEDICATED REC.	20A/1	2#12, 1#12 G, 3/4" C		2280	12	BUNKS 7 & 8	20A/1	2#12, 1#12 G, 3/4" C
13	FITNESS AREA TV	20A/1	2#12, 1#12 G, 3/4" C	1620		14	BUNKS 9 & 10	20A/1	2#12, 1#12 G, 3/4" C
15	SPARE	20A/1			540	16	CORRIDOR REC.	20A/1	2#12, 1#12 G, 3/4" C
17	WH	20A/2	2#12, 1#12 G, 3/4" C	1600		18	BUNKROOM LIGHTING	20A/1	2#12, 1#12 G, 3/4" C
19					1500	20	CORRIDOR, EXERCISE LIGHTING	20A/1	2#12, 1#12 G, 3/4" C
21	CLOTHES DRYER	30A/2	2#10, 1#10 G, 3/4" C	2500		22	NIGHT LIGHTING	20A/1	2#12, 1#12 G, 3/4" C
23					4000	24	CLOTHES WASHER	20A/1	2#12, 1#12 G, 3/4" C
				<b>Total Load (KVA)</b>	14.44	14.58			
				<b>Total Load (A)</b>	120.3667	121.5333			

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NAMI NAHID REGISTERED ENGINEER  
No. 10302106  
STATE OF INDIANA  
PROFESSIONAL ENGINEER  
11/20/24

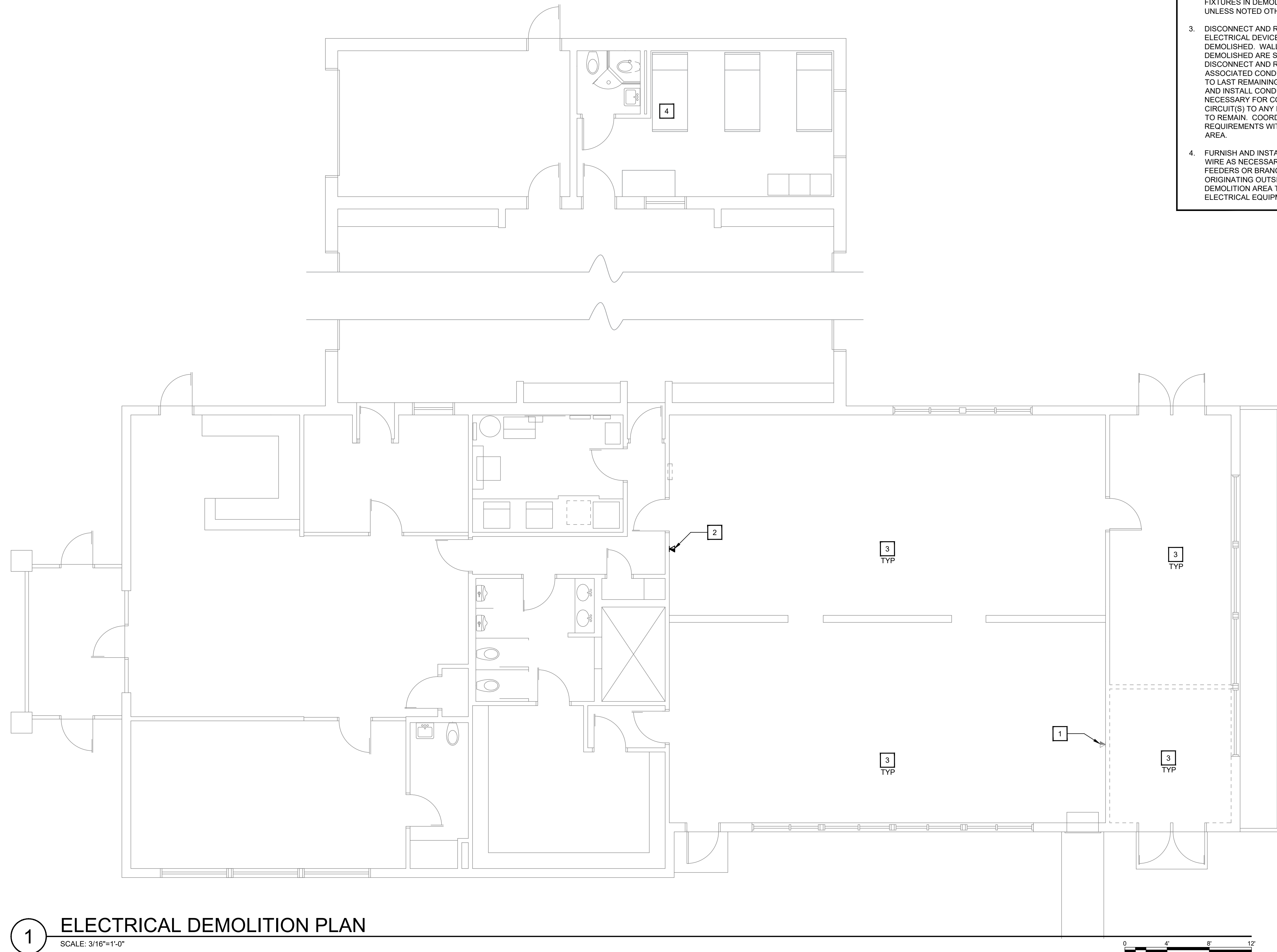
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**Electrical Cover**  
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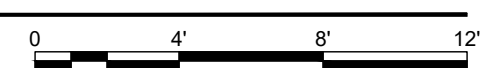
**DEMOLITION NOTES**

1. EXISTING TELEPHONE TO REMAIN.
2. EXISTING TELEPHONE TO BE RELOCATED BY OWNER. SEE NEW CONSTRUCTION PLAN. COORDINATE WITH LOW VOLTAGE CONTRACTOR.
3. EXISTING POWER AND DATA RECEPTACLES WITHIN WALLS TO REMAIN SHALL BE RETAINED. REPLACE RECEPTACLE AND COVERS AS NECESSARY. FIELD VERIFY EXISTING LOCATIONS. TYPICAL.
4. EXISTING WATER HEATER AND ASSOCIATED WIRING SHALL BE REMOVED AND REPLACED AS INDICATED ON NEW CONSTRUCTION PLANS.

**GENERAL DEMO NOTES:**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.</li> <li>2. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.</li> <li>3. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.</li> <li>4. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES</li> </ol> | <p>TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.</p> <ol style="list-style-type: none"> <li>5. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.</li> <li>6. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.</li> <li>7. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).</li> <li>8. FURNISH AND INSTALL BLANK COVER PLATES FOR ALL EXISTING UNUSED OPENINGS.</li> </ol> |
|--|---|

**1 ELECTRICAL DEMOLITION PLAN**  
SCALE: 3/16"=1'-0"



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Professional Engineer Seal: NAMI NAHID REGISTERED ENGINEER No. 10302106 STATE OF INDIANA PROFESSIONAL ENGINEER  
11/20/24

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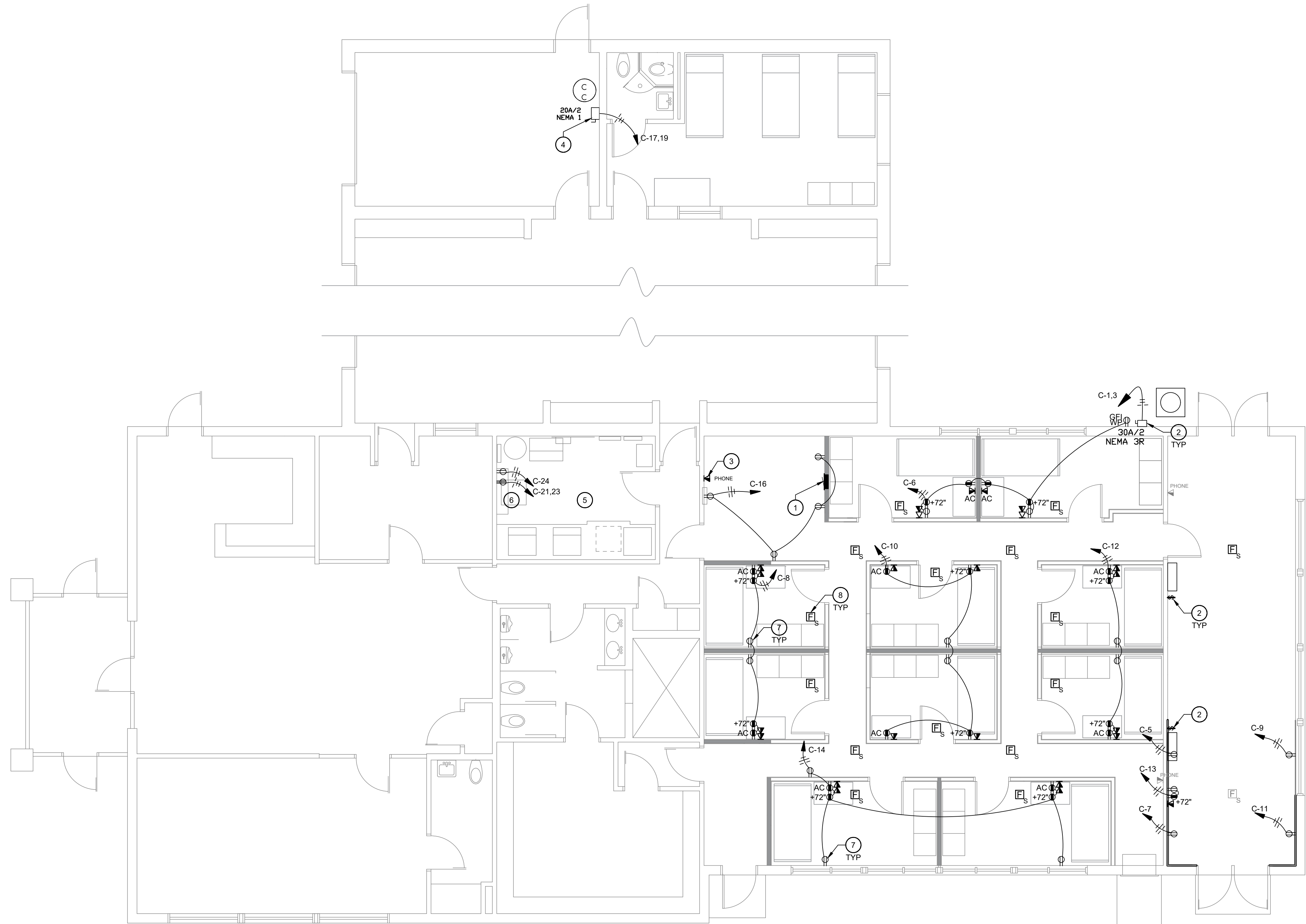
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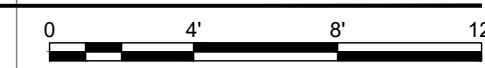
**Electrical Demo Plan**

SHEET NO:  
**E-1.0**





**1 ELECTRICAL POWER PLAN**  
SCALE: 3/16"=1'-0"



- CONSTRUCTION NOTES**
1. PROVIDE NEW 200A, 120/240V, RECESSED, MAIN CIRCUIT BREAKER ELECTRICAL PANEL CONNECTED TO THE EXISTING MAIN DISTRIBUTION PANEL. PROVIDE 200A SUB-FEED BREAKER IN MDP. CONNECT NEW PANEL USING (3) #3/0 AWG, (1) #6 AWG GND, IN (1) 2" CONDUIT. FIELD VERIFY EXISTING MDP LOCATION AND CONDITION FOR NEW BREAKER INSTALLATION.
  2. PROVIDE ELECTRICAL DISCONNECT FOR INDOOR AND OUTDOOR HVAC UNITS. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR COMPLETE ELECTRICAL INSTALLATION REQUIREMENTS FOR ALL HVAC UNITS. TYPICAL.
  3. NEW WALL-MOUNTED PHONE LOCATION PROVIDED BY OWNER. COORDINATE WITH THE OWNER FOR EXACT LOCATION, REQUIREMENTS, AND MOUNTING HEIGHT.
  4. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT ELECTRICAL INSTALLATION REQUIREMENTS OF NEW WATER HEATER.
  5. PROVIDE BACKBOX, CONDUIT, AND PULL STRINGS TO ALL DATA LOCATIONS. COORDINATE WITH OWNER AND LOW VOLTAGE CONTRACTOR FOR FURTHER ELECTRICAL INSTALLATION REQUIREMENTS. TYPICAL.
  6. COORDINATE WITH ARCHITECTURAL FOR LOCATION OF WASHER/DRYER UNIT. COORDINATE WITH EQUIPMENT VENDOR FOR EXACT ELECTRICAL REQUIREMENTS AND MOUNTING HEIGHTS.
  7. NEW RECEPTACLE(S) SHALL BE OMITTED IF THERE IS AN EXISTING RECEPTACLE WITHIN 5' OF LOCATION INDICATED AND ALONG THE SAME WALL. FIELD VERIFY EXISTING RECEPTACLES WITHIN EXISTING WALLS TO REMAIN. TYPICAL.
  8. NEW SMOKE ALARM DEVICES SHALL BE PROVIDED BY OWNER. COORDINATE WITH OWNER FOR ANY REQUIRED BOX AND WIREWAY PROVISIONS. TYPICAL.

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**Electrical Power Plan**  
SHEET NO:  
**E-1.1**



LIGHTING & CEILING SCHEDULE												
TAG	DESCRIPTION	MANUFACTURER	SERIES	LUMENS	CCT	CRI	LM	HOURS	WATTS	VOLTAGE	MOUNTING	REMARKS
A	6" SWITCHABLE DOWNLIGHT WAFER	JUNO	WF6	990	3,500	90	70	50,000	13	120V	RECESSED/CEILING	WF6 SWW5 90CRI
B	2'X4' LED FLAT PANEL	LITHONIA	CPX	4,000	3500	80	70	50,000	26	120-277V	RECESSED/GRID	CPX 2'X4 ALO8 80CRI SWW7 MVOLT NOTE: PROVIDE SURFACE MOUNT ACCESSORIES AS NECESSARY.
ST	STEP LIGHT	ASD	LSTL	100	3000	80	-	50,000	3	120V	RECESSED/WALL	ASD-LSTL-H01W-N3CC-PC-MS-BK
EM	EMERGENCY LIGHT	LITHONIA	ELM4	-	-	-	-	-	3	120/277V	SURFACE/WALL	ELM4L
EX	EXIT FIXTURE	LITHONIA	LHQM	-	-	-	-	-	2.5	120/277V	SURFACE/WALL	LHQM HO
REM	EXTERIOR REMOTE HEAD	LITHONIA	ELA	-	-	-	-	-	2	9.6V	SURFACE/WALL	ELA SD

**SCHEDULE NOTES:**

1. FIXTURE SCHEDULE IS USED FOR BASIS OF DESIGN. ANY PROPOSED FIXTURE EQUIVALENTS TO BE APPROVED ONLY BY ENGINEER PRIOR TO BID. FIXTURES SUBMITTED AS PROPOSED EQUAL SHALL CONTAIN ORIGINAL SPECIFIED FIXTURE CUTSHEET ALONG WITH PROPOSED EQUIVALENT FIXTURE SHOWING PHOTOMETRIC DATA AND EFFICIENCY DATA.
2. LIGHTING FIXTURE SCHEDULED OR AN ENGINEER APPROVED EQUIVALENT SHALL BE INSTALLED.
3. FINAL FINISHES SHALL BE SELECTED BY ARCHITECT.
4. MOUNTING HARDWARE AND ACCESSORIES SHALL BE ACQUIRED FOR EACH FIXTURE AND SHALL BE SUITABLE FOR THE MOUNTING APPLICATION AND THE ENVIRONMENT IN WHICH THE FIXTURE IS TO BE INSTALLED.

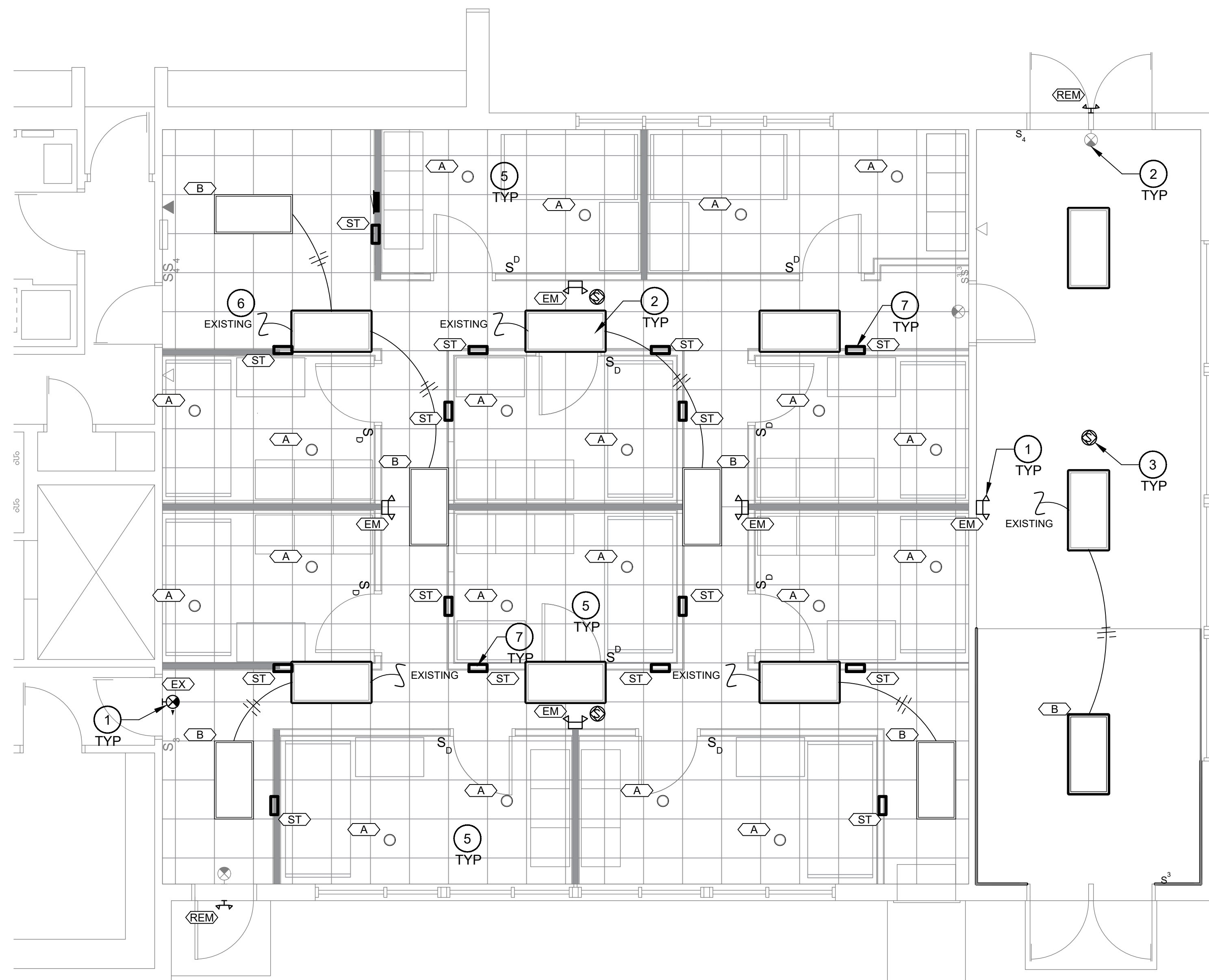
**CONSTRUCTION NOTES**

1. EMERGENCY AND EGRESS LIGHTING SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR. CONNECT TO THE NEAREST LIGHTING CIRCUIT. TYPICAL OF ALL EMERGENCY AND EGRESS FIXTURES.
2. EXISTING FIXTURE TO REMAIN. REPLACE FIXTURE(S) AS NECESSARY. TYPICAL OF GREY FIXTURE WITHOUT TAG.
3. COORDINATE WITH THE OWNER AND LOW VOLTAGE CONTRACTOR FOR INSTALLATION REQUIREMENTS FOR NEW SPEAKERS ON EXISTING SPEAKER SYSTEM. TYPICAL OF ALL NEW SPEAKER LOCATIONS.
4. NEW FIXTURE SHALL BE CONNECTED TO EXISTING LIGHTING CONTROL SWITCH LEG WITH EXISTING LIGHTING WITHIN AREA. TYPICAL FOR NEW FIXTURES IN SIMILAR SPACE.
5. NEW BUNK ROOM LIGHTING SHALL BE POWERED FROM NEW LIGHTING CIRCUIT AS INDICATED, CIRCUIT C-18. TYPICAL OF ALL BUNK ROOMS.
6. EXISTING LIGHTING SWITCH LEGS OF EXISTING HALLWAY FIXTURES AND EXISTING EXERCISE ROOM FIXTURES SHALL BE REWORKED TO BE POWERED FROM NEW CIRCUIT ON NEW PANEL, CIRCUIT C-20.
7. STEP LIGHTING SHALL BE POWERED FROM AN UNSWITCHED 120V HOT CIRCUIT. FIXTURE SHALL BE CONTROLLED BY INTERNAL PHOTOCELL AND MOTION SENSORS. FIXTURE SHALL BE MOUNTED AT 18" TO CENTER. POWER FROM NEW CIRCUIT C-22. TYPICAL.

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STATE OF INDIANA  
11/20/24



**1 ELECTRICAL LIGHTING PLAN**  
SCALE: 1/4"=1'-0"

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**Electrical Lighting Plan**

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