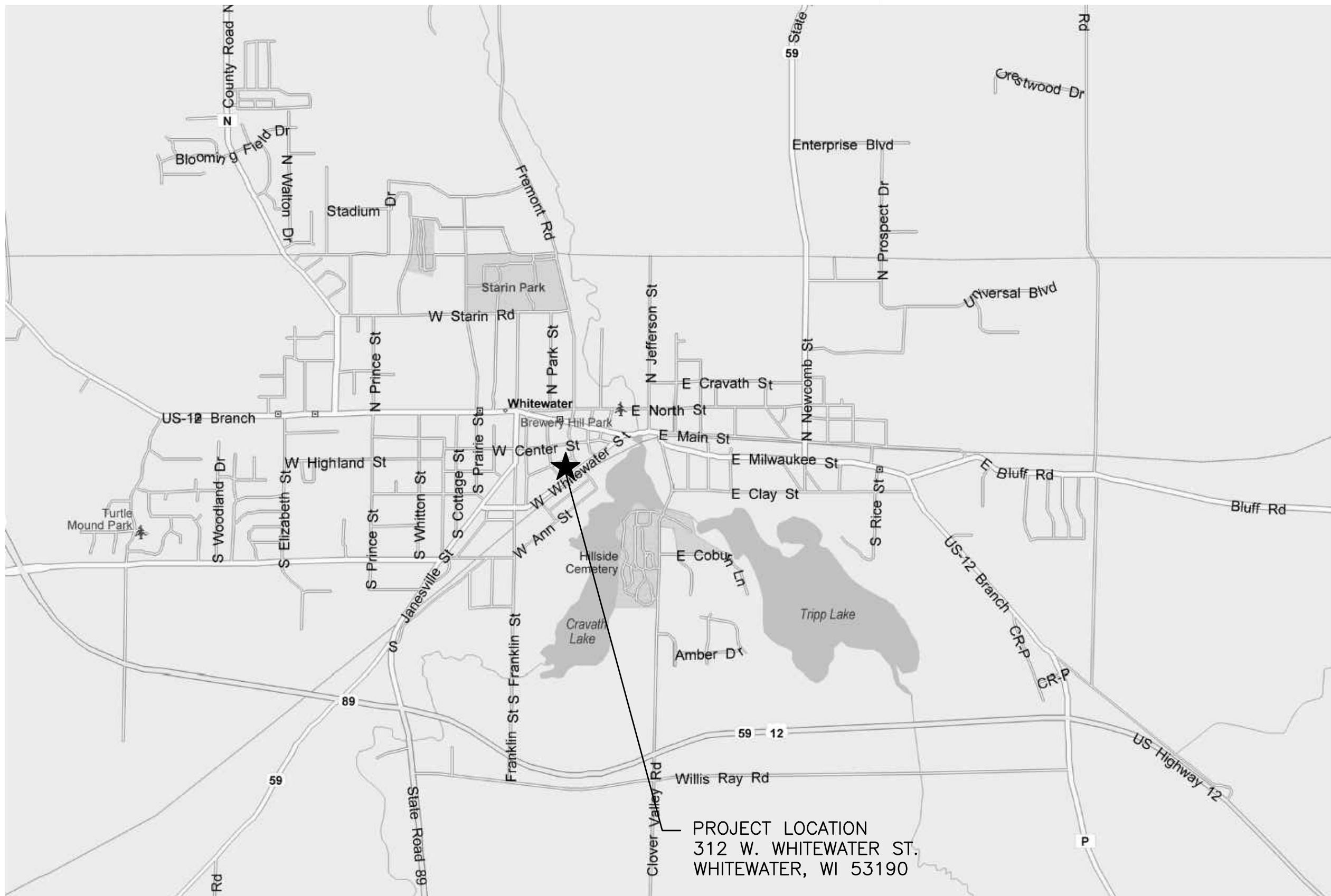
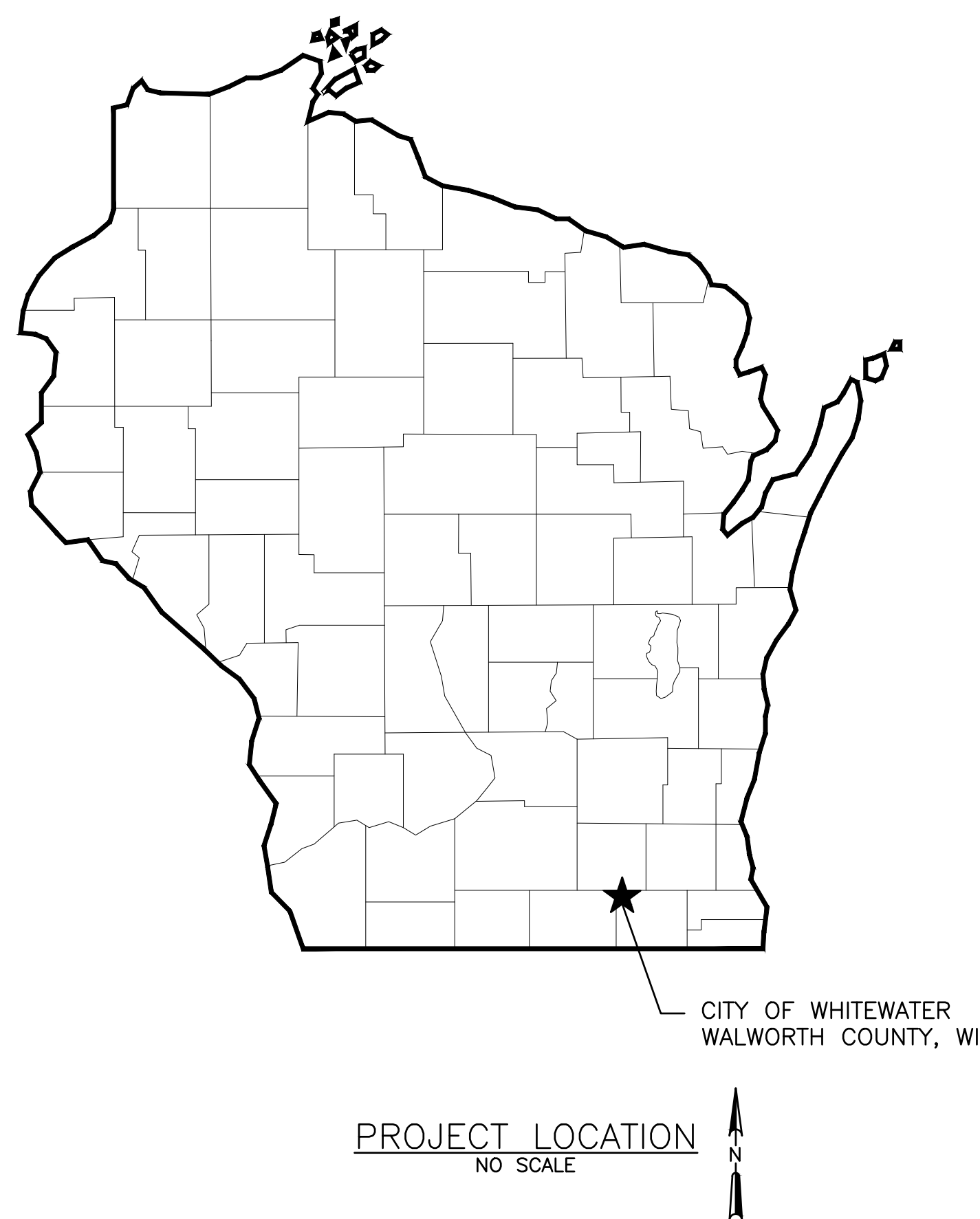


# FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL

FOR THE

## CITY OF WHITEWATER

## WHITEWATER, WISCONSIN



LIST OF DRAWINGS		
SHEET NO.	DRAWING NO.	DRAWING TITLE
<b>GENERAL</b>		
1	G0.01	TITLE SHEET, LOCATION MAP, AND DRAWING LIST
2	G0.02	STANDARD SYMBOLS AND ABBREVIATIONS - 1
3	G0.03	STANDARD SYMBOLS AND ABBREVIATIONS - 2
<b>DEMOLITION</b>		
4	D1.01	FLOOR PLAN
<b>ARCHITECTURAL</b>		
5	A1.01	CODE SUMMARY AND LIFE SAFETY PLAN
6	A1.02	FLOOR PLAN
7	A3.01	ELEVATIONS AND SECTIONS
8	A5.01	DETAILS AND SCHEDULES
<b>MECHANICAL AND PLUMBING</b>		
9	MP1.01	FLOOR PLAN
10	MP5.01	DETAILS AND SCHEDULES
<b>ELECTRICAL</b>		
11	E1.01	POWER AND LIGHTING PLAN
12	E5.01	DETAILS AND SCHEDULES

910 West Wingra Drive  
Madison, WI 53715  
608-251-4843  
608-251-8655 fax  
www.strand.com

CONTRACT 4-2024



ISSUED FOR BID, 03/28/2024

SHEET  
1  
G0.01

PROJECT CONTACTS

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CITY OF WHITEWATER - FIRE DEPARTMENT

KELLY FREEMAN - FIRE/EMS CHIEF  
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(P) 262-473-0116

EQUIPMENT ABBREVIATIONS

EBH ELECTRIC BASEBOARD HRATER  
ER EXHAUST REGISTER  
SR SUPPLY REGISTER  
VAV VARIABLE AIR VOLUME BOX

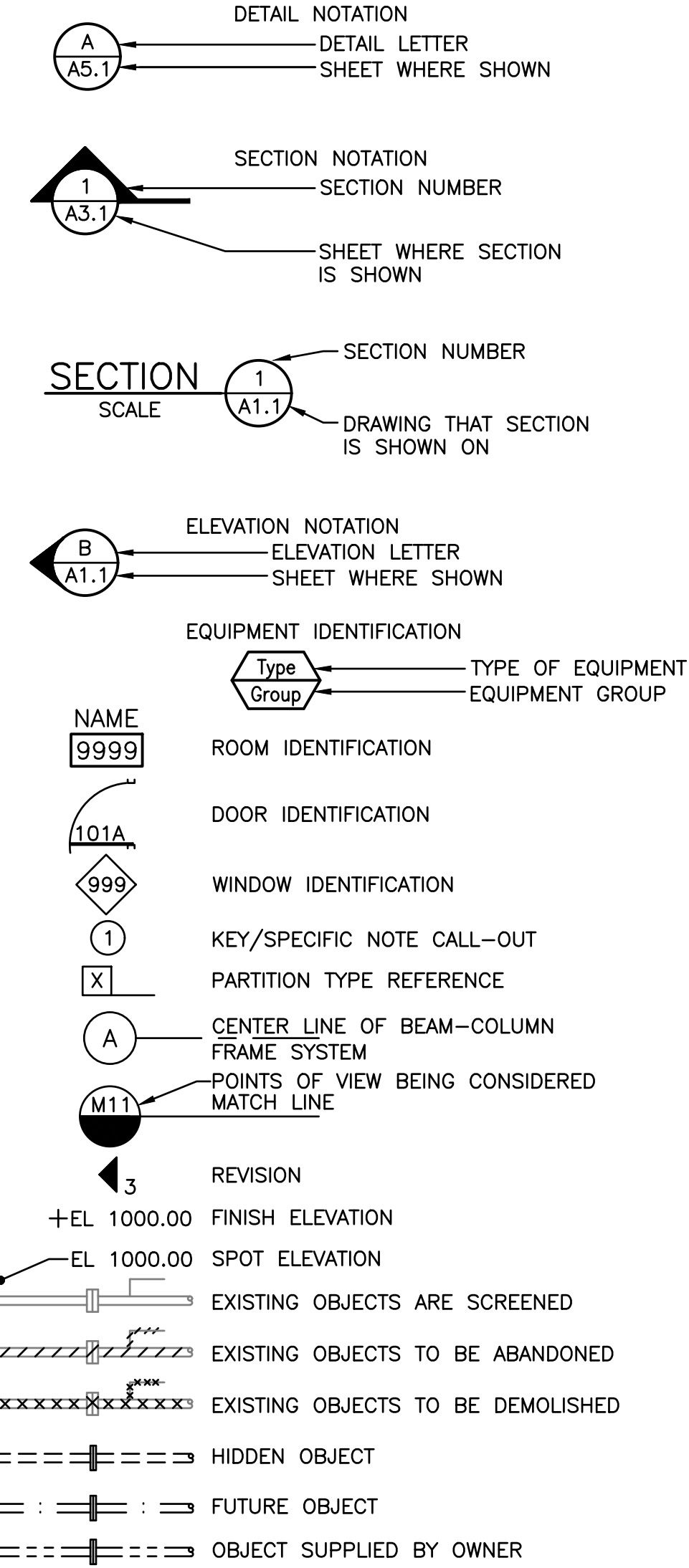
GENERAL ABBREVIATIONS

AFF ABOVE FINISHED FLOOR  
BOD BOTTOM OF DUCT  
CFM CUBIC FEET PER MINUTE  
EL ELEVATION  
FD FLOOR DRAIN  
FLA FULL LOAD AMPS  
GA GAUGE  
NA NOT APPLICABLE  
NTS NOT TO SCALE  
PD PRESSURE DROP  
PSI POUNDS PER SQUARE INCH  
PSIG POUNDS PER SQUARE INCH GAUGE  
RA RETURN AIR  
SA SUPPLY AIR

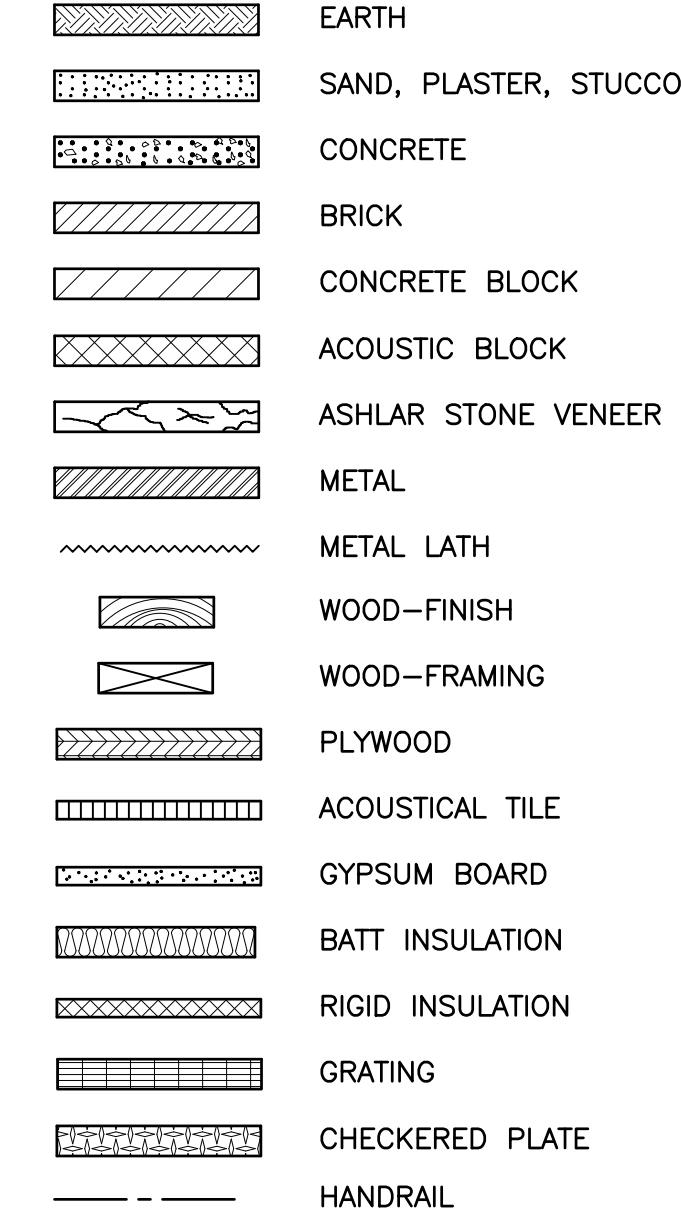
PLUMBING ABBREVIATIONS

CW COLD WATER PIPE  
FCO FLOOR CLEAN OUT  
FD FLOOR DRAIN  
HW HOT WATER PIPE  
IE INVERT ELEVATION  
L LAVATORY  
SD SHOWER DRAIN  
SH SHOWER  
UR URINAL  
V VENT

DRAFTING SYMBOLS



ARCHITECTURAL SYMBOLS



PIPING SYMBOLS



GENERAL  
STANDARD SYMBOLS AND ABBREVIATIONS - 1

FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL  
CITY OF WHITEWATER  
WHITEWATER, WISCONSIN

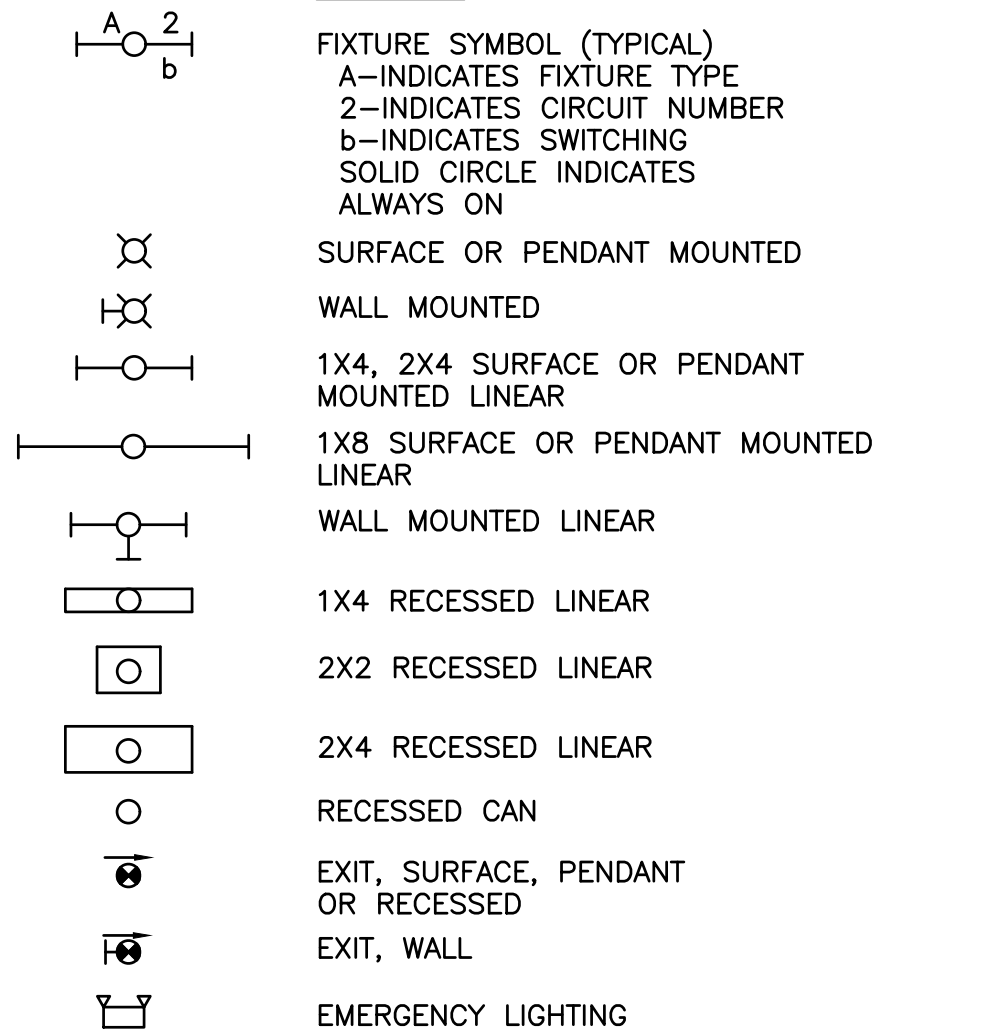
JOB NO.  
1407.136

PROJECT MGR.  
EVAN CONSTANT



SHEET  
2  
G0.02

## LIGHTING

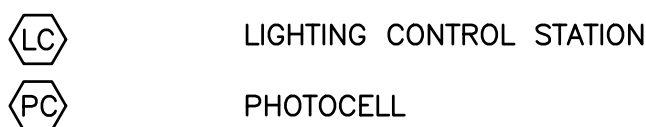


## SWITCHES

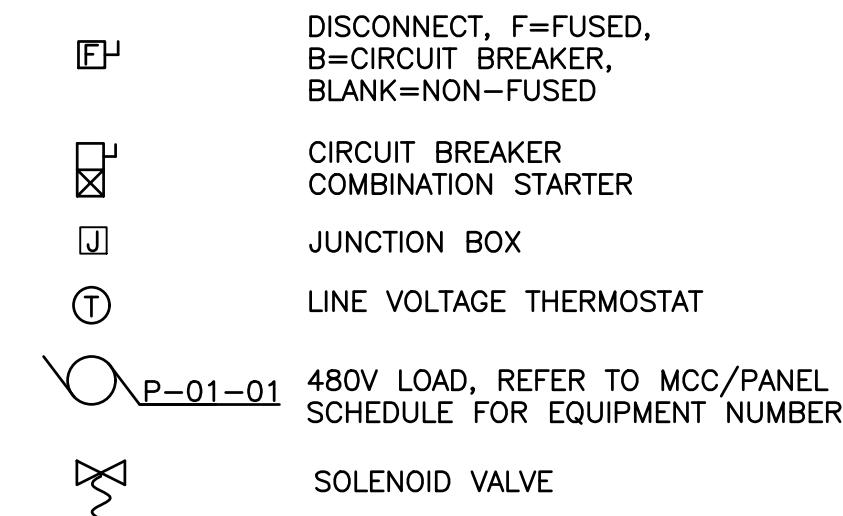
```

$#          SINGLE POLE
# : (BLANK) = SINGLE POLE
  2 = TWO-WAY
  3 = THREE-WAY
  4 = FOUR-WAY
  K = KEYED
  D = DIMMER
  M = MANUAL MOTOR SWITCH (3 PHASE)
  P = SWITCH WITH PILOT LIGHT
  WP = WEATHERPROOF

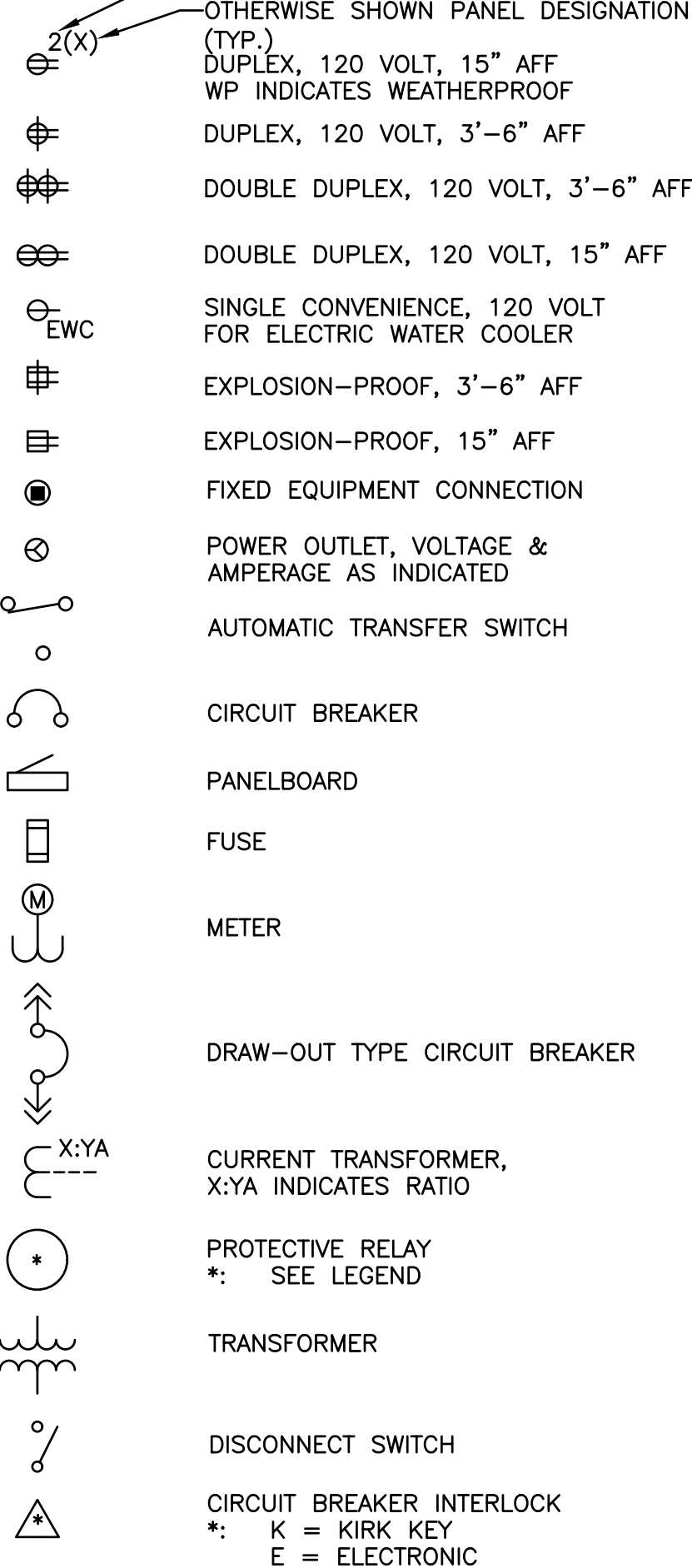
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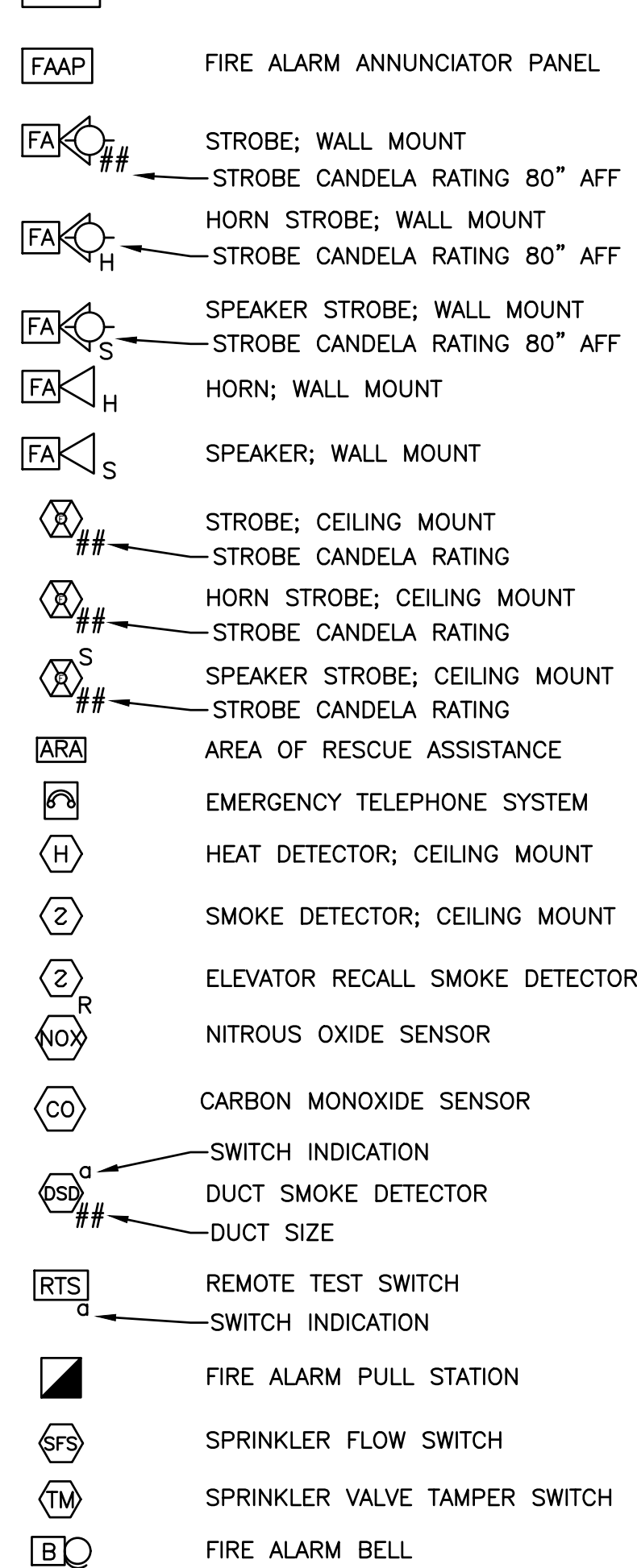
## EQUIPMENT AND WIRING



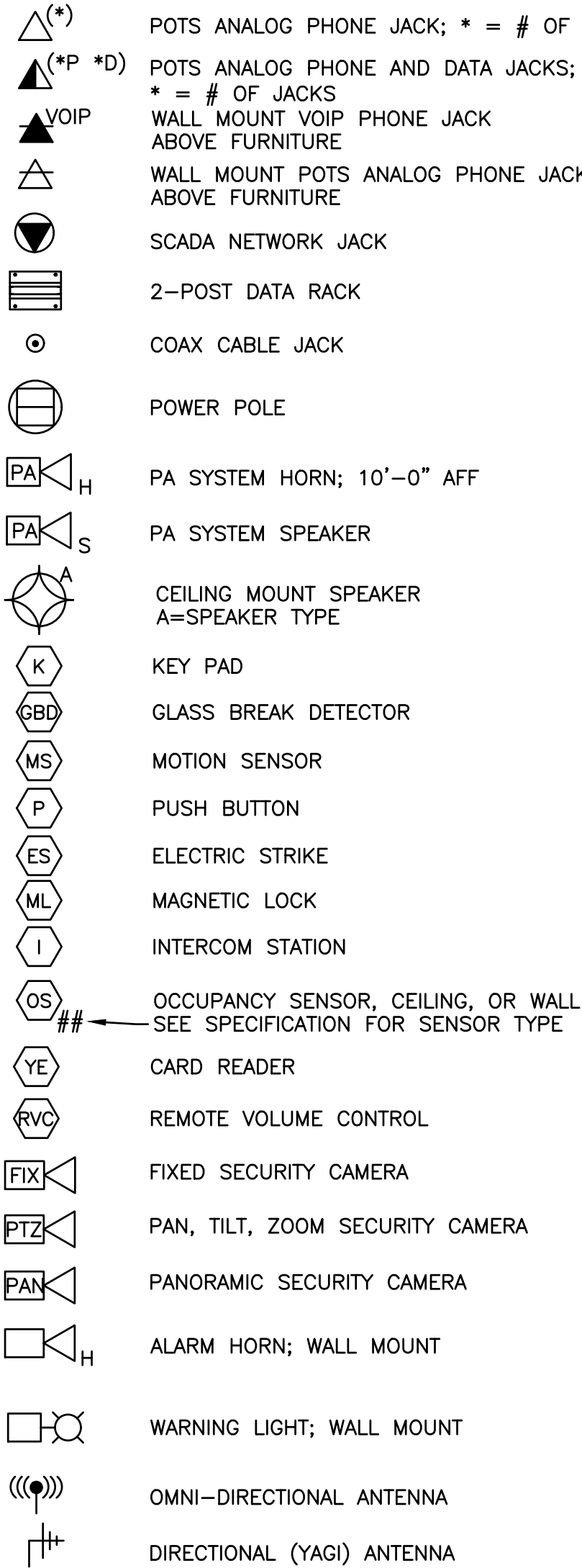
CIRCUIT NUMBER (TYPICAL)



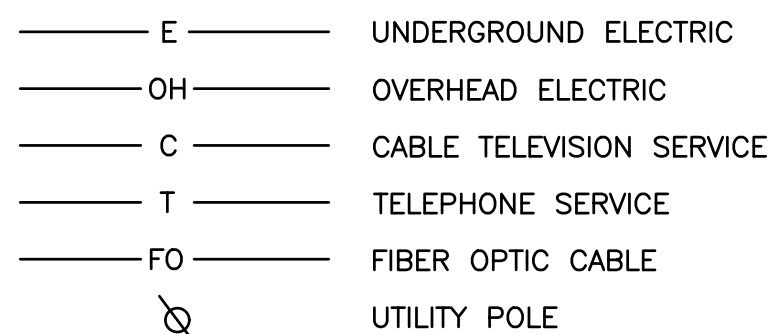
**FACP** FIRE ALARM CONTROL PANEL



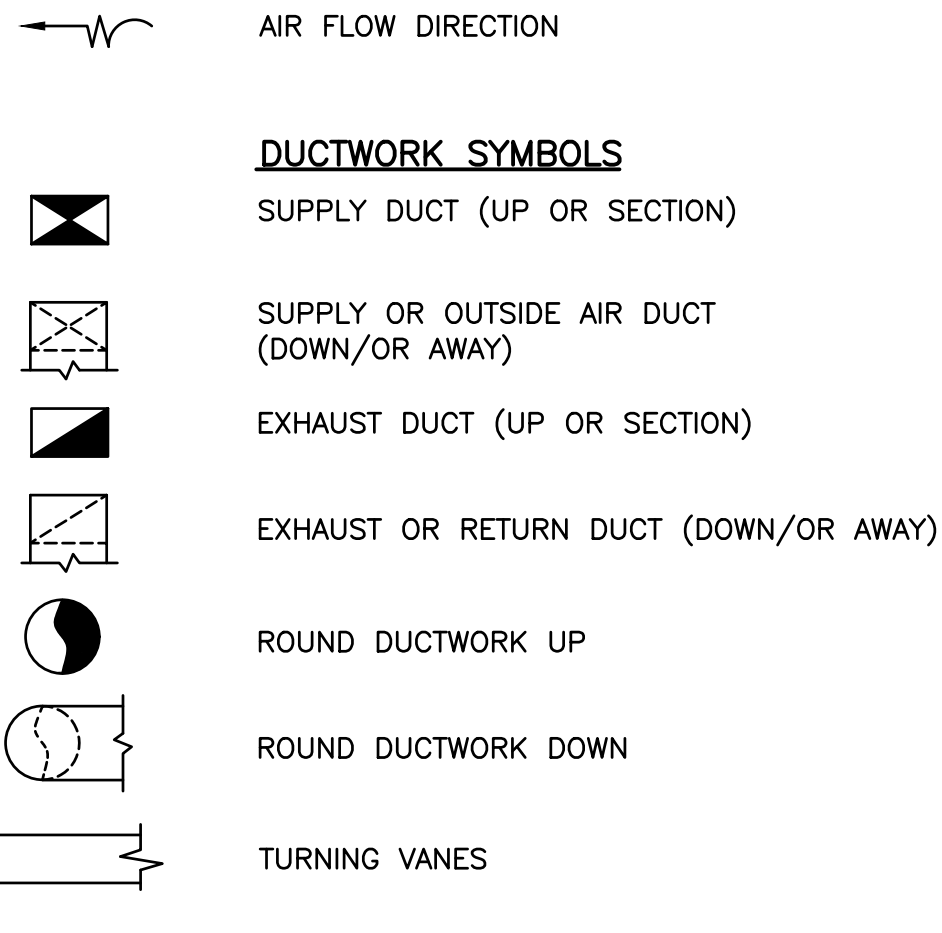
DATA JACK; \* = # OF JACKS



### SITE SYMBOLS



## EQUIPMENT SYMBOLS



## FIELD MOUNTED HVAC CONTROLS



## INSTRUMENTATION SYMBOLS

### INTERNATIONAL SOCIETY OF AUTOMATION (ISA) DEFINITION TABLE

LETTER	FIRST LETTERS		SUCCEEDING LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS (+)		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE (+)	USER'S CHOICE (+)	USER'S CHOICE (+)
C	USER'S CHOICE (+)			CONTROL	CLOSE
D	USER'S CHOICE (+)	DIFFERENTIAL			DEVIATION
E	VOLTAGE		PRIMARY ELEMENT (SENSOR)		
F	FLOW, FLOW RATE	RATIO			
G	USER'S CHOICE (+)		GLASS, GAUGE	GATE	
H	HAND (MANUAL)				HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME, SCHEDULE	TIME RATE		CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	USER'S CHOICE (+)	MOMENTARY			MIDDLE
N	USER'S CHOICE (+)		USER'S CHOICE (+)	USER'S CHOICE (+)	USER'S CHOICE (+)
O	USER'S CHOICE (+)		ORIFICE, RESTRICTION		OPEN
P	PRESSURE, VACUUM		POINT (TEST CONNECTION)		
Q	QUANTITY (+)	INTEGRATE	INTEGRATE		
R	RADIATION		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE (+)		MULTIFUNCTION (+)	MULTIFUNCTION (+)	MULTIFUNCTION (+)
V	VISCOSITY, VIBRATION			VALVE, DAMPER	
W	WEIGHT, FORCE		WELL, PROBE		
X	UNCLASSIFIED (+)	X-AXIS	UNCLASSIFIED (+)	UNCLASSIFIED (+)	UNCLASSIFIED (+)
Y	EVENT, STATE, PRESENCE (+)	Y-AXIS		RELAY, COMPUTE (+)	
Z	POSITION, DIMENSION	Z-AXIS		DRIVE, ACTUATOR OR UNCLASSIFIED FINAL CONTROL ELEMENT	

(+) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS.

## DEVICE TAG NAMING & DESCRIPTORS

EQUIPMENT

TAG NAMING: W-XY-Z  
W = TYPE OF EQUIPMENT  
XY = LOOP/STRUCTURE NUMBER  
Z = UNIT NUMBER

### CONTROL & INSTRUMENTATION

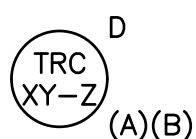
TAG NAMING: TRC-XY-Z

T	=	FIRST LETTER FROM ISA DEFINITION TABLE
RC	=	SUCCEEDING LETTERS FROM ISA DEFINITION TABLE
XY	=	LOOP/STRUCTURE NUMBER
Z	=	UNIT NUMBER

ADDITIONAL DESCRIPTORS:

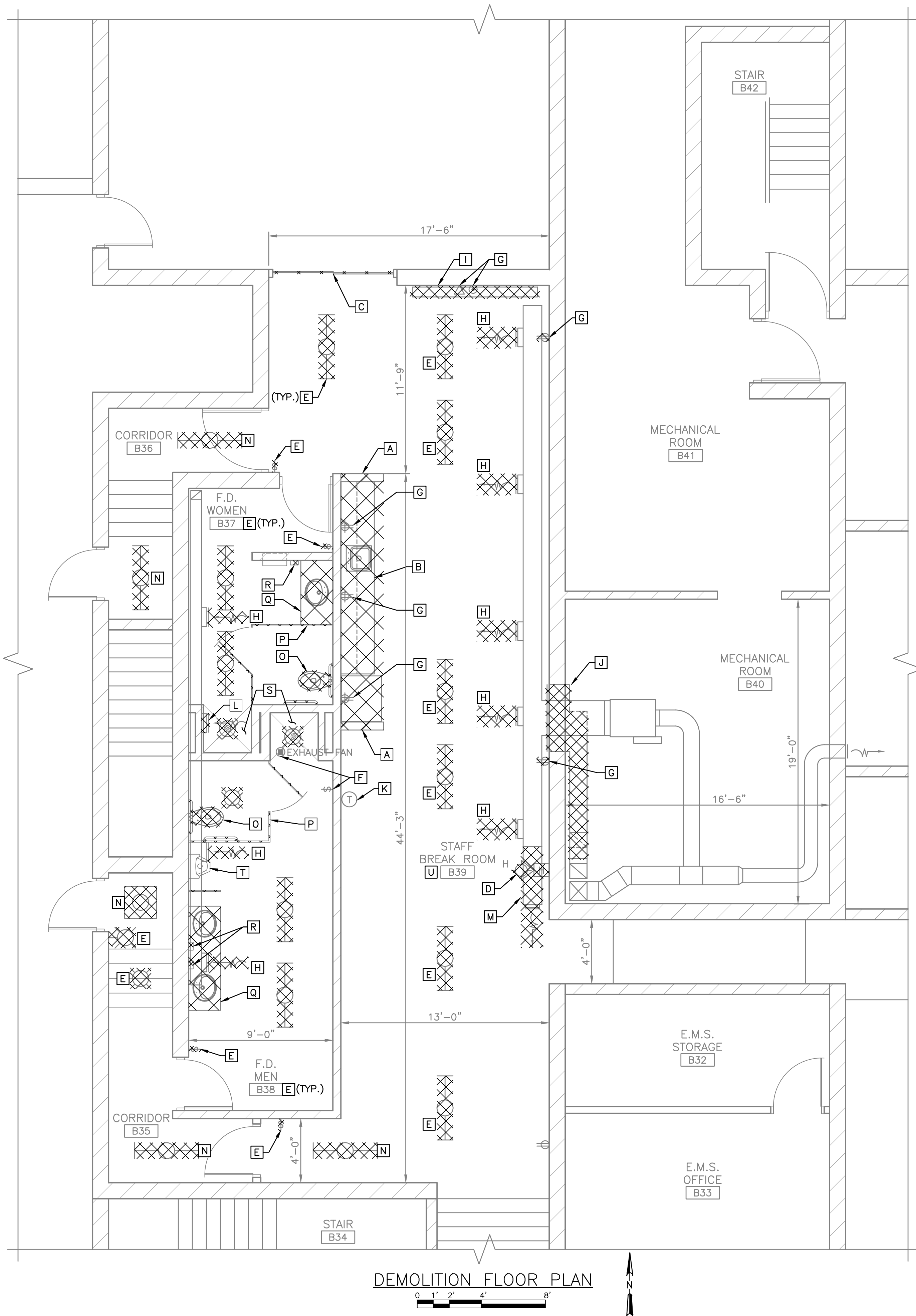
A	=	NUMBER OF UNITS DEPICTED (BLANK IF ONE)
B	=	NUMBER OF SETS DEPICTED (BLANK IF ONE)
D	=	SUPPLEMENTAL DESCRIPTION (REFER TO INSTRUMENT-SPECIFIC ELECTRICAL ABBREVIATIONS)

## INSTRUMENTS

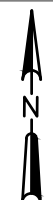
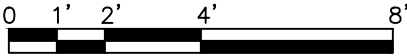


GENERAL INSTRUMENT  
(SEE DEVICE TAG NAMING & DESCRIPTORS  
ABOVE AND ABBREVIATIONS SHEET)





DEMOLITION FLOOR PLAN

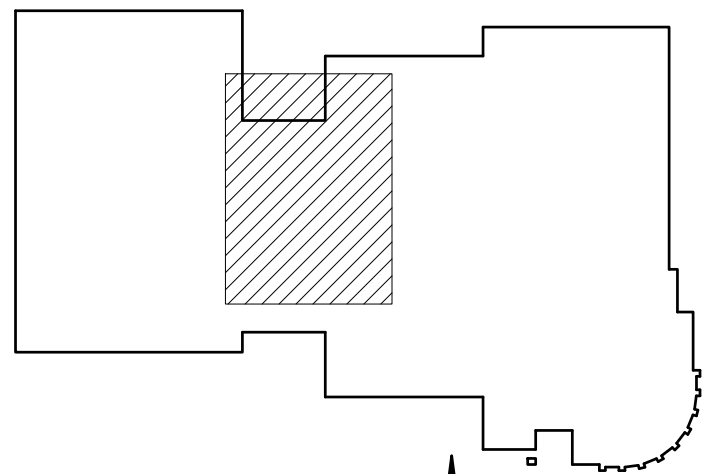


DEMOLITION GENERAL NOTES:

1. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIALS ASSOCIATED WITH THE ITEMS BEING REMOVED AS SHOWN ON THIS DRAWING, AS WELL AS EXISTING ELECTRICAL DEVICES, MATERIALS, EQUIPMENT WIRING, AND EXPOSED CONDUITS NOT BEING REUSED. CONCEALED CONDUITS NOT BEING USED SHALL BE CAPPED AND ABANDONED IN PLACE.
2. PATCH ALL HOLES AND DEFORMATIONS RESULTING FROM DEMOLITION TO MATCH EXISTING.
3. ONE RESTROOM SHALL REMAIN IN OPERATION AT ALL TIMES DURING CONSTRUCTION. COORDINATE WITH OWNER ANY PERIODS WHERE BOTH RESTROOMS WILL BE OUT OF SERVICE AT THE SAME TIME.

DEMOLITION KEY NOTES:

- [A] DEMOLISH EXISTING CMU WALL FROM FLOOR TO CEILING.
- [B] DEMOLISH CABINETS, SINK, COUNTERTOP, AND OTHER ASSOCIATED ITEMS WITHIN KITCHENETTE AREA.
- [C] DEMOLISH SLIDING DOOR.
- [D] RELOCATE EXISTING FIRE ALARM DEVICE AS SHOWN ON DRAWING E1.01.
- [E] REMOVE LIGHTS AND BOXES ASSOCIATED LIGHTING CONTROLS. EXISTING CONDUIT SHALL REMAIN FOR REUSE.
- [F] REMOVE EXISTING CONTROLS. EXISTING SWITCH SHALL REMAIN FOR REUSE.
- [G] REMOVE RECEPTACLE, COAX JACK, AND VOICE JACK.
- [H] REMOVE GRILLE. PREPARE EXISTING DUCT OPENING FOR NEW GRILLE. SEE DRAWING MP1.01 FOR ADDITIONAL DETAILS.
- [I] REMOVE EXISTING HOT WATER RADIATOR. REMOVE PIPING AND SUPPORTS, INSULATION, AND ALL FITTINGS AND VALVES FROM HEATER BACK TO CONNECTIONS IN ADJACENT MECHANICAL ROOM.
- [J] REMOVE RETURN DUCTWORK FROM RETURN GRILLE BACK TO 6-INCHES BEFORE ELBOW UP TO FIRST FLOOR. CAP DUCTWORK OPENING. REMOVE RETURN GRILLE. INFILL WALL TO MATCH EXISTING BLOCK.
- [K] EXISTING ROOM TEMPERATURE SENSOR SHALL REMAIN.
- [L] REMOVE EXHAUST GRILLE AND PATCH DUCTWORK MAIN. PAINT DUCTWORK TO MATCH EXISTING.
- [M] REMOVE DUCTWORK AND SOUTH FACING SUPPLY GRILLE. PREPARE DUCTWORK FOR RECONNECTION.
- [N] REMOVE LIGHTS AND CONDUIT FROM LP B1 TO LIGHTING AND ASSOCIATED LIGHTING CONTROLS SHALL REMAIN FOR REUSE.
- [O] REMOVE WATER CLOSET AND ASSOCIATED ITEMS AND PREPARE FOR REPLACEMENT. PREPARE WATER SUPPLY AND SANITARY PIPING FOR CONNECTION TO NEW WATER CLOSET.
- [P] REMOVE PARTITIONS AND GRAB BARS.
- [Q] DEMOLISH CABINETS, SINK, COUNTERTOP, AND OTHER ASSOCIATED ITEMS IN AREA. PREPARE WATER SUPPLY AND SANITARY PIPING FOR CONNECTION TO NEW LAVATORY.
- [R] REMOVE SOAP DISPENSER.
- [S] REMOVE FLOOR TILE, WALL TILE, FIXTURES, BENCH, AND DRAIN IN SHOWER AREA AND PREPARE FOR NEW TILE.
- [T] EXISTING URINAL SHALL REMAIN.
- [U] REMOVE EXISTING RESILIENT FLOORING TO LIMITS SHOWN ON DRAWING A1.02. REMOVE TO CLEAN LINES AT TRANSITIONS FROM NEW FLOORING TO EXISTING FLOORING.



KEY PLAN  
NO SCALE



DEMOLITION  
FLOOR PLAN

FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL  
CITY OF WHITEWATER  
WHITEWATER, WISCONSIN

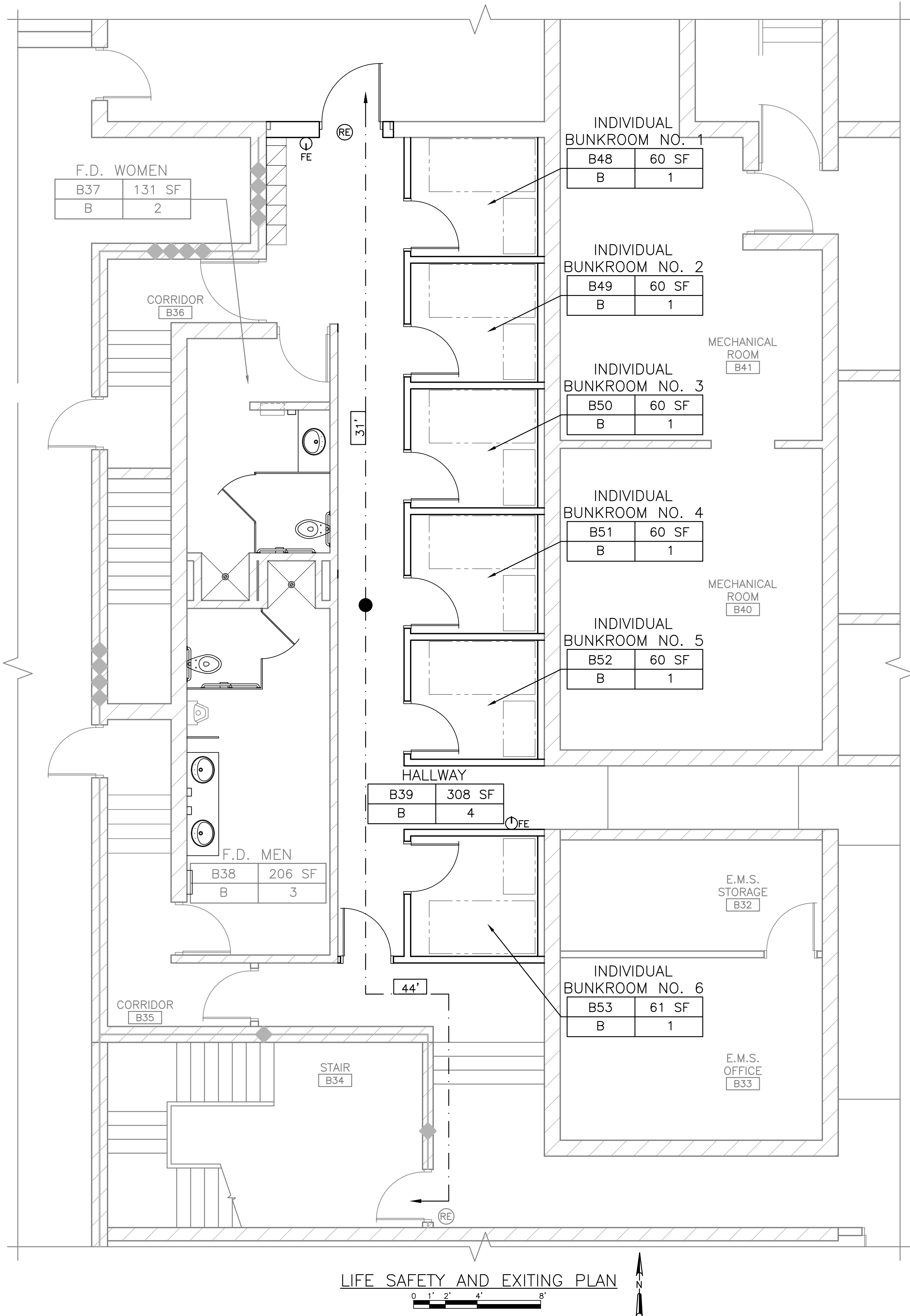
JOB NO.  
1407.136

PROJECT MGR.  
EVAN CONSTANT



SHEET  
4  
D1.01

NO.	A	REVISIONS					DATE:
		ISSUED FOR BID					
							03/26/24



LIFE SAFETY AND EXITING PLAN

FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL BUILDING  
CODE INFORMATION

BUILDING CODE	2015 INTERNATIONAL BUILDING CODE (SPS 362)
	2015 INTERNATIONAL EXISTING BUILDING CODE (SPS 366)
	2015 INTERNATIONAL MECHANICAL CODE (SPS 364)
	PLUMBING CODE (SPS 382)
	2017 NATIONAL ELECTRIC CODE (SPS 316)
	2015 INTERNATIONAL ENERGY CONSERVATION CODE (SPS 363)
	2015 INTERNATIONAL FUEL GAS CODE (SPS 365)
	ADA STANDARDS (SPS 362)

SCOPE OF WORK:  
LEVEL II ALTERATION TO EXISTING FIRE DEPARTMENT BASEMENT INCLUDING THE REPLACEMENT OF ELECTRICAL AND PLUMBING FIXTURES AND RECONFIGURATION OF SPACE TO INCLUDE NEW BUNK ROOMS.

OCCUPANCY TYPE	SINGLE USE
USE GROUPS	B - BUSINESS (NEW)
	B - BUSINESS (EXISTING)

HAZARDOUS MATERIALS - NONE PRESENT IN PROJECT AREA

CONSTRUCTION TYPE TYPE IIB

OCCUPANCY SEPARATION - NONE REQUIRED

GENERAL BUILDING INFORMATION

PROJECT AREA<sup>2</sup> ±1,100 SF

FIRE SUPPRESSION SYSTEM NONE PROVIDED

PORTABLE FIRE EXTINGUISHERS, RATED CLASS A, B, C; 10-POUND CAPACITY.

NUMBER OF OCCUPANTS

OCCUPANT LOAD FACTOR 100 GROSS (BUSINESS AREAS)

OCCUPANT CALCULATION - SEE PLANS

ACTUAL NUMBER OF OCCUPANTS 6 PER SHIFT

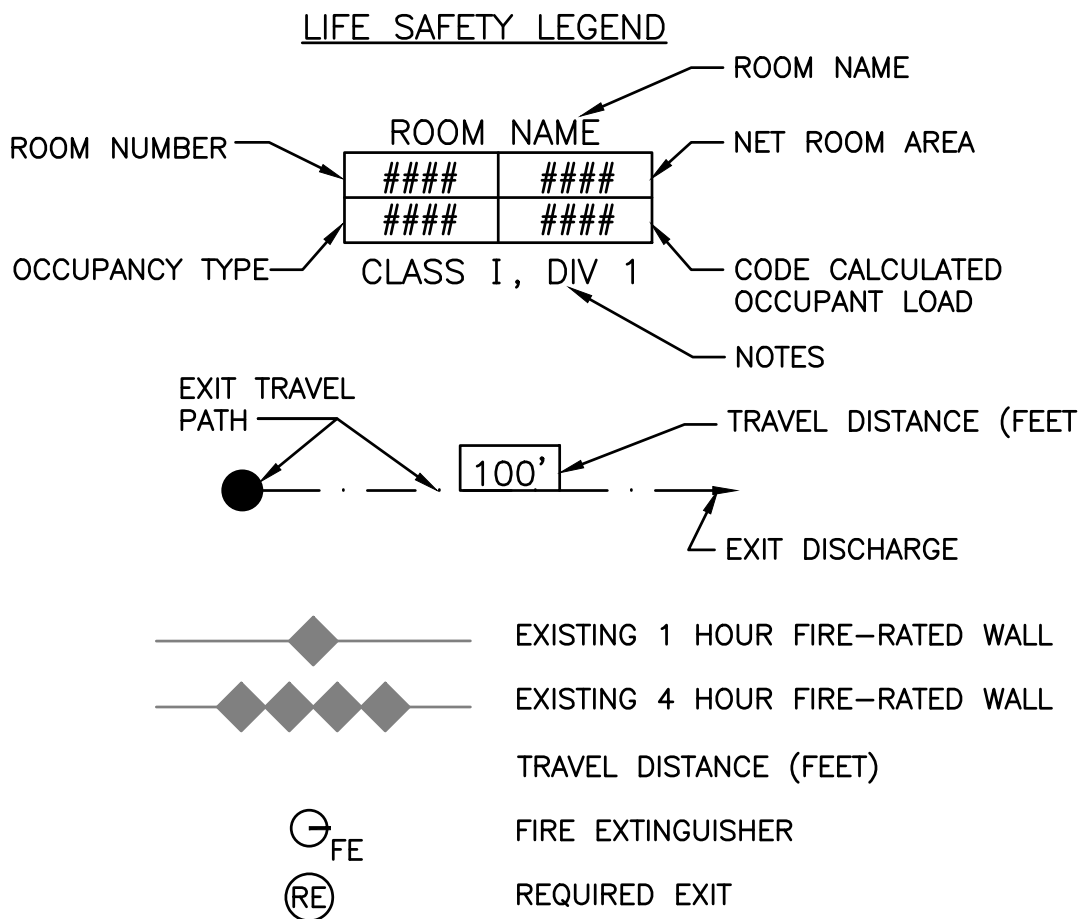
TRAVEL DISTANCE	EXIT ACCESS	COMMON PATH
B	200 FEET	100 FEET <sup>1</sup>

NUMBER OF EXITS

ALL OTHER SPACES/OCCUPANCIES NOT LISTED ABOVE REQUIRE 1 EXIT.

NOTES:

1. COMMON PATH OF TRAVEL INCREASED FROM 75 FEET TO 100 PER 1006.2.1, OCCUPANT LOAD LESS THAN 30.
2. SCOPE OF WORK DOES NOT INCREASE BUILDING AREA AND IS NOT A CHANGE OF OCCUPANCY.



ARCHITECTURAL  
CODE SUMMARY AND LIFE SAFETY PLAN

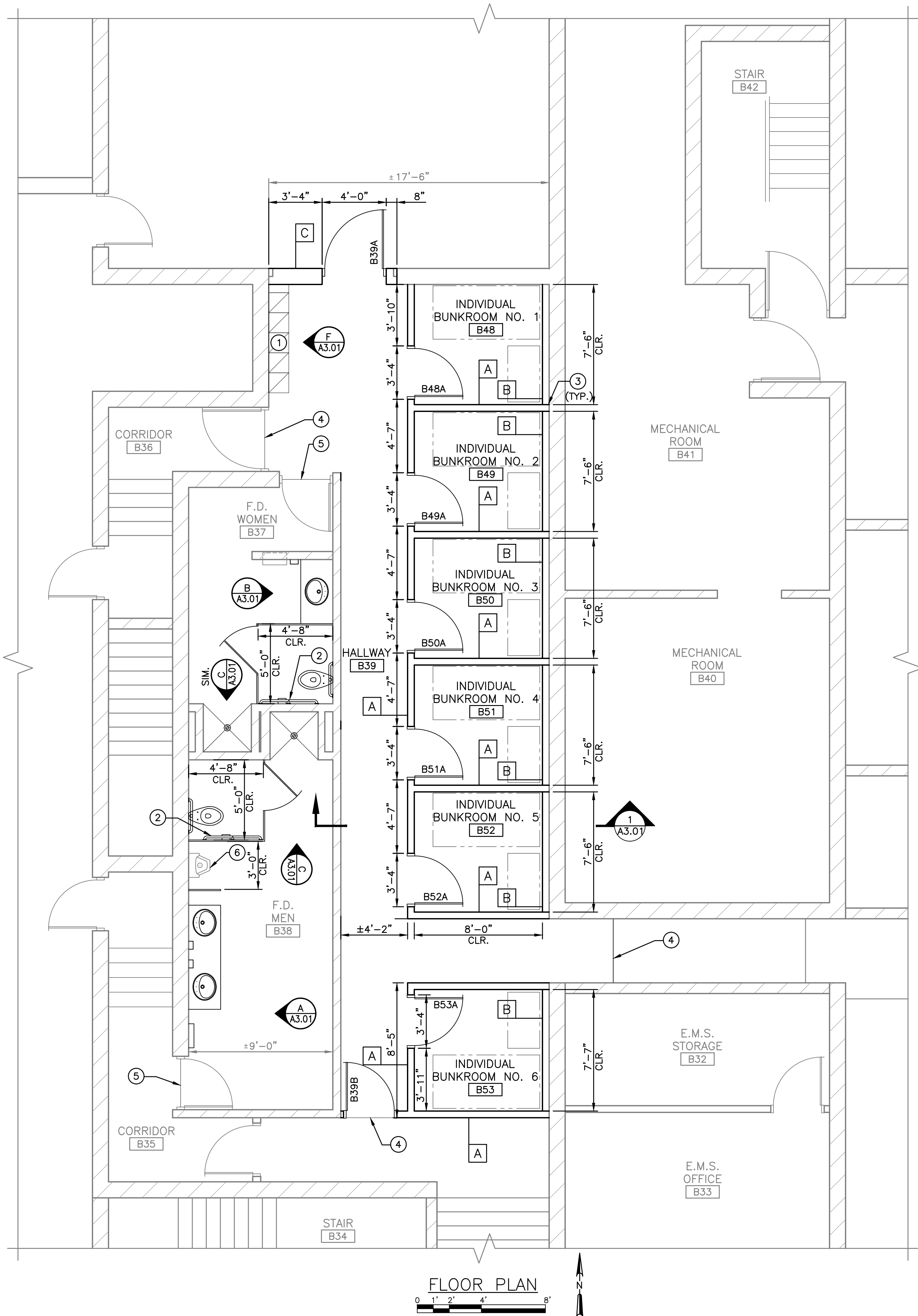
FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL  
CITY OF WHITEWATER  
WHITEWATER, WISCONSIN

JOB NO.  
1407.136

PROJECT MGR.  
EVAN CONSTANT



SHEET  
5  
A1.01

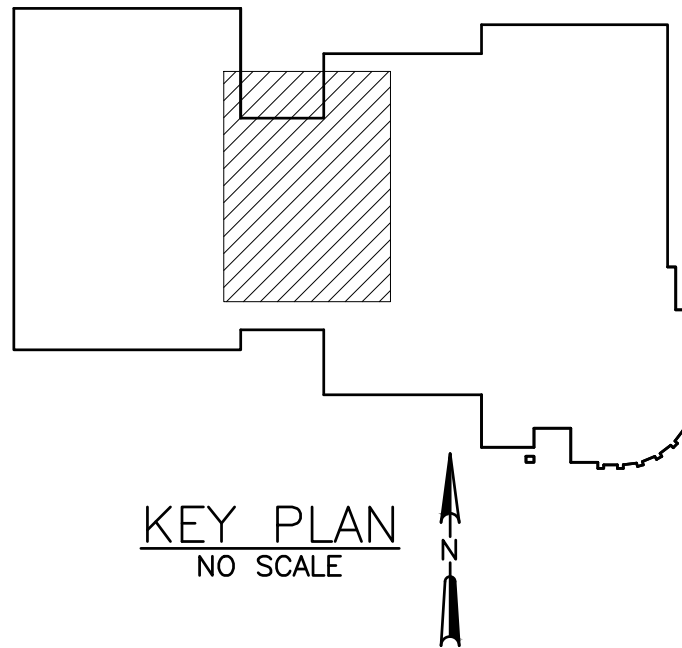


GENERAL NOTES:

- FURNITURE TO BE PROVIDED BY OWNER.
- FOR WALL TYPES DELINEATED WITH [X] SYMBOL, SEE DRAWING A5.01.
- ALL INTERIOR DOORS TO OCCUPIED ROOMS AND EXTERIOR DOORS SHALL HAVE A MINIMUM 1'-6" CLEARANCE FROM LATCH END OF DOOR TO ANY OBSTRUCTION ON THE DOOR SWING SIDE. THE SIDE OPPOSITE THE DOOR SWING SHALL HAVE A MINIMUM 1'-0" CLEARANCE TO ANY OBSTRUCTION FROM LATCH END OF DOOR.
- SEE ROOM FINISH SCHEDULE AND SPECIFICATIONS FOR TREATMENTS OF WALLS, FLOORS, AND CEILINGS NOT CALLED OUT ON DRAWINGS.
- PROVIDE DRYWALL SOFFIT TIGHT TO DUCTWORK IN ALL BUNKROOMS PER SECTION 1/A3.01.
- DUCT IN HALLWAY SHALL REMAIN EXPOSED AND BE PAINTED TO MATCH THE CEILING COLOR PER SPECIFICATIONS.

KEY NOTES:

- (5) DOUBLE-TIER 15"x15"x72" LOCKERS ON 6-INCH LEGS AS SPECIFIED
- FOR TYPICAL GRAB BAR CONFIGURATION, SEE E/A3.01
- INTERSECTION OF NEW STUD WALL BETWEEN INDIVIDUAL BUNKROOMS, SEE DETAIL C/A5.01
- APPROXIMATE EXTENT OF NEW FLOORING IN HALLWAY. PROVIDE TRANSITION STRIP BETWEEN DIFFERENT FLOORING TYPES AS RECOMMENDED BY MANUFACTURER.
- APPROXIMATE EXTENT OF NEW FLOORING IN RESTROOMS. PROVIDE TRANSITION STRIP BETWEEN DIFFERENT FLOORING TYPES AS RECOMMENDED BY MANUFACTURER.
- PROVIDE NEW FLOORING TRANSITION AT EXISTING URINAL PER DETAIL F/A5.01



ARCHITECTURAL  
FLOOR PLAN

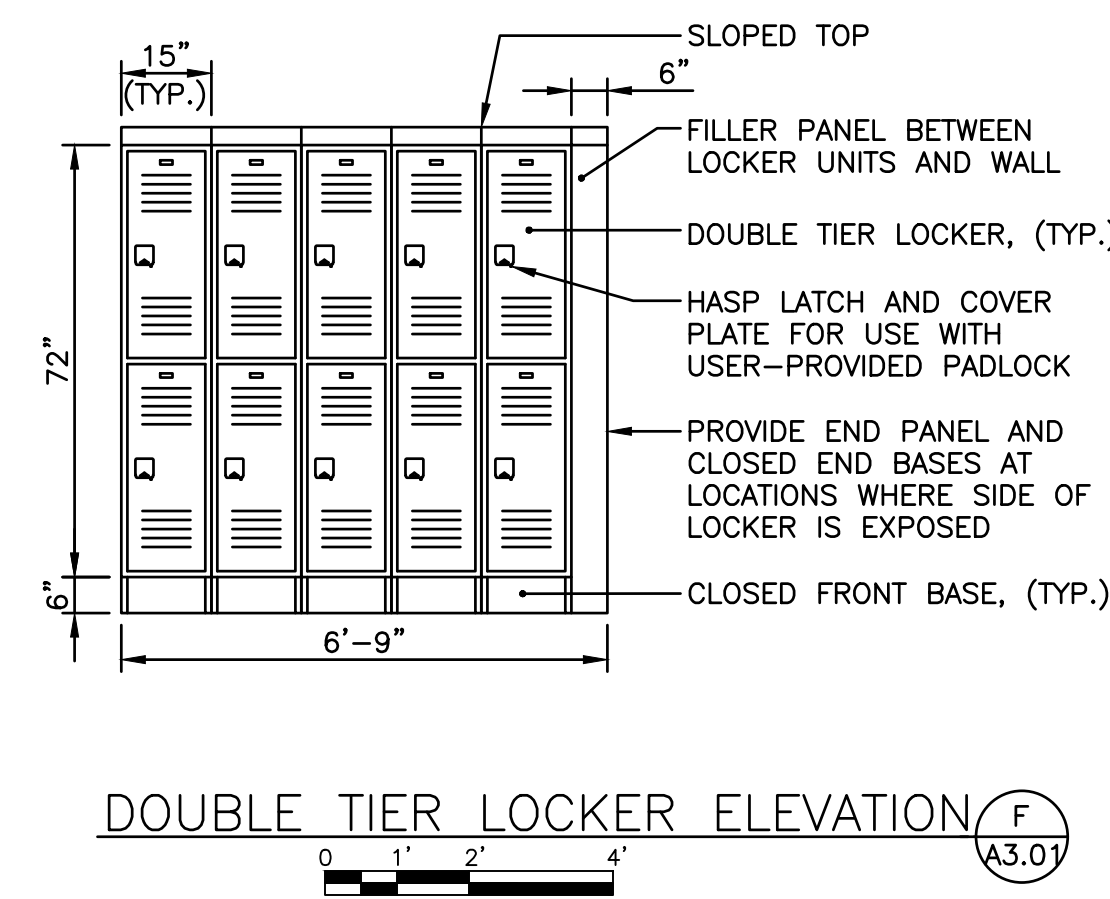
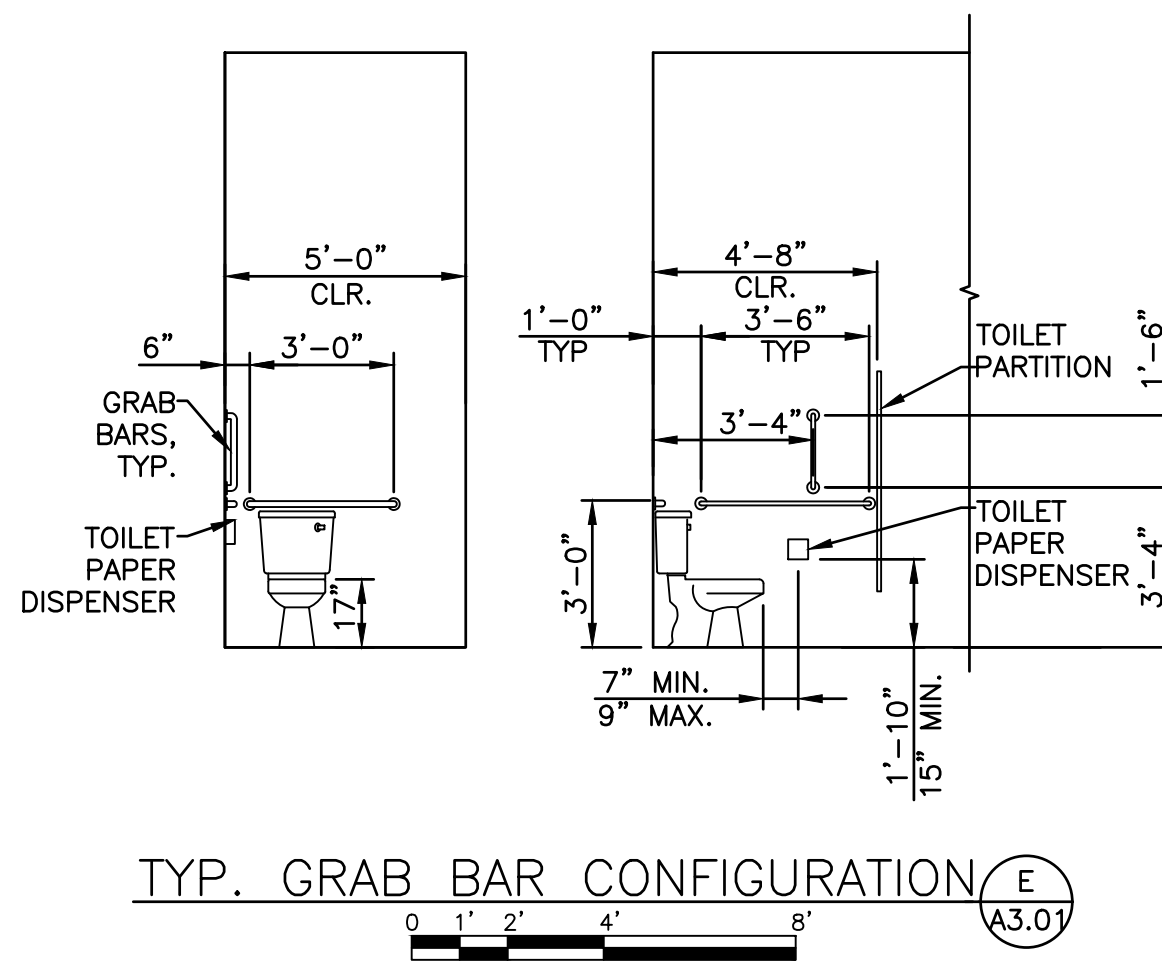
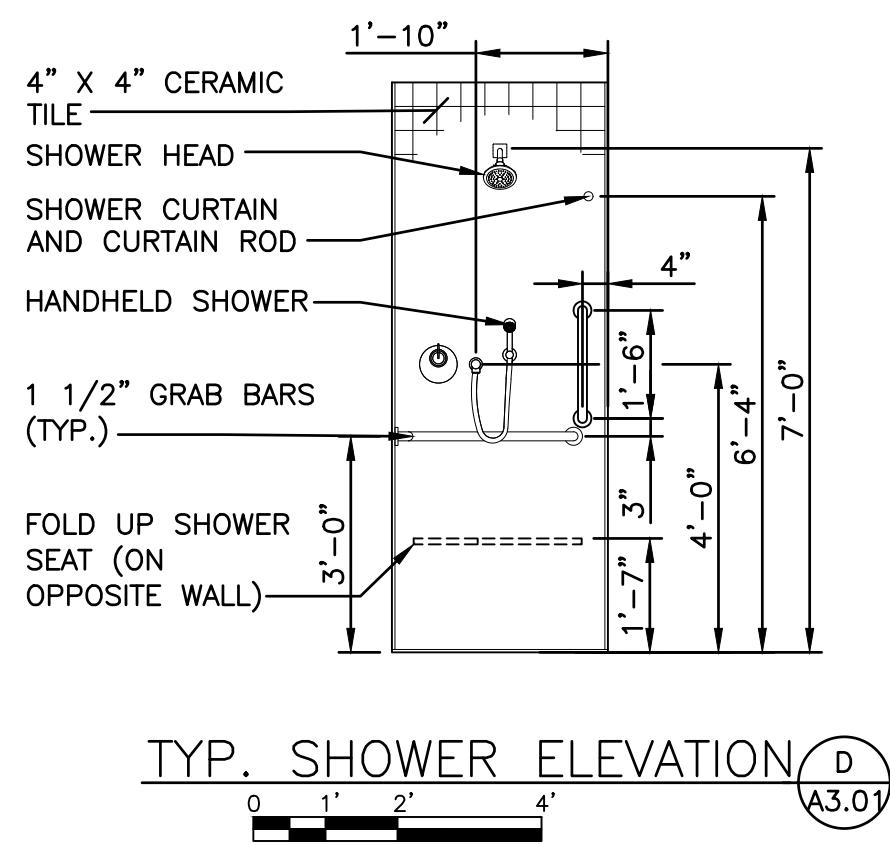
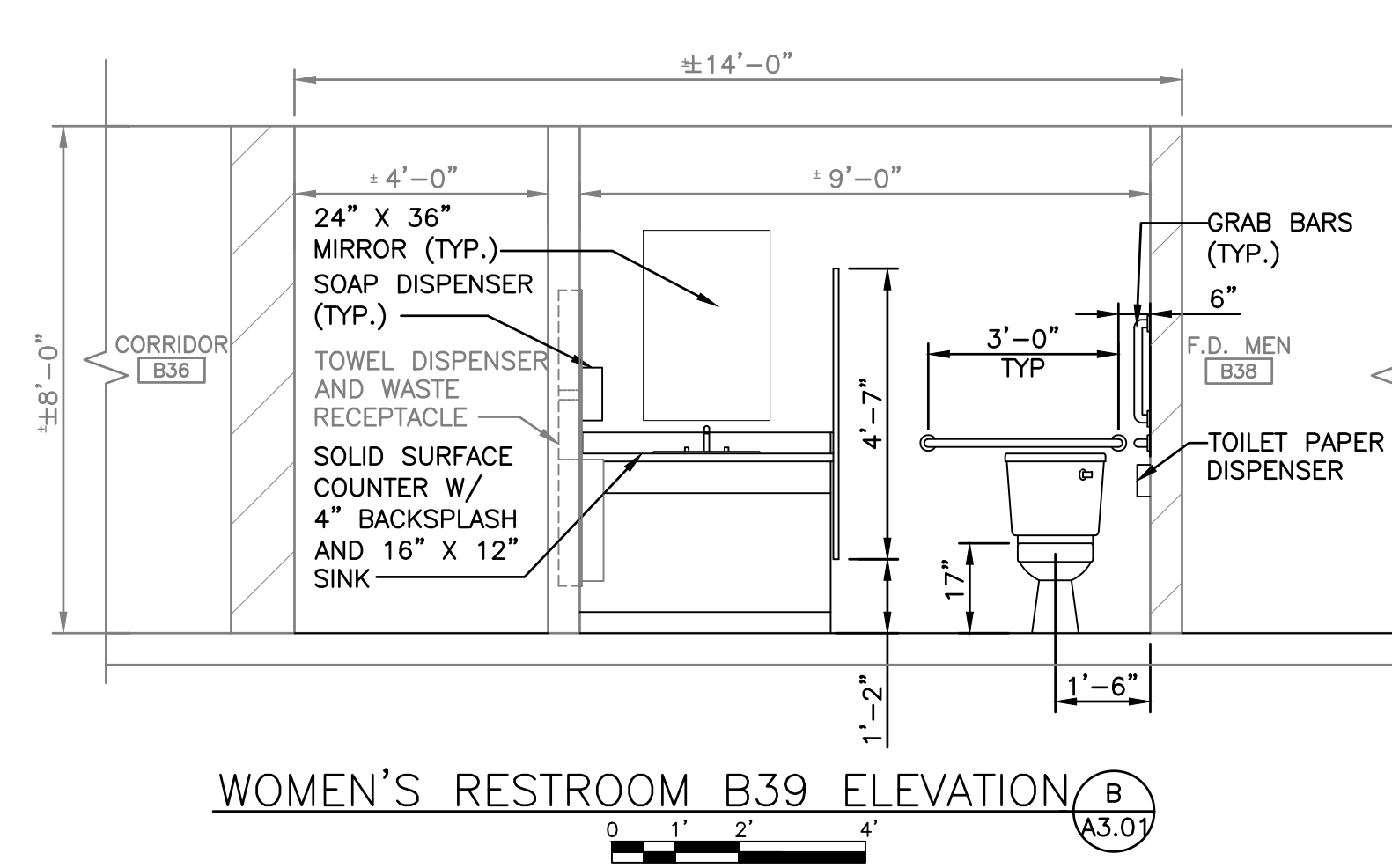
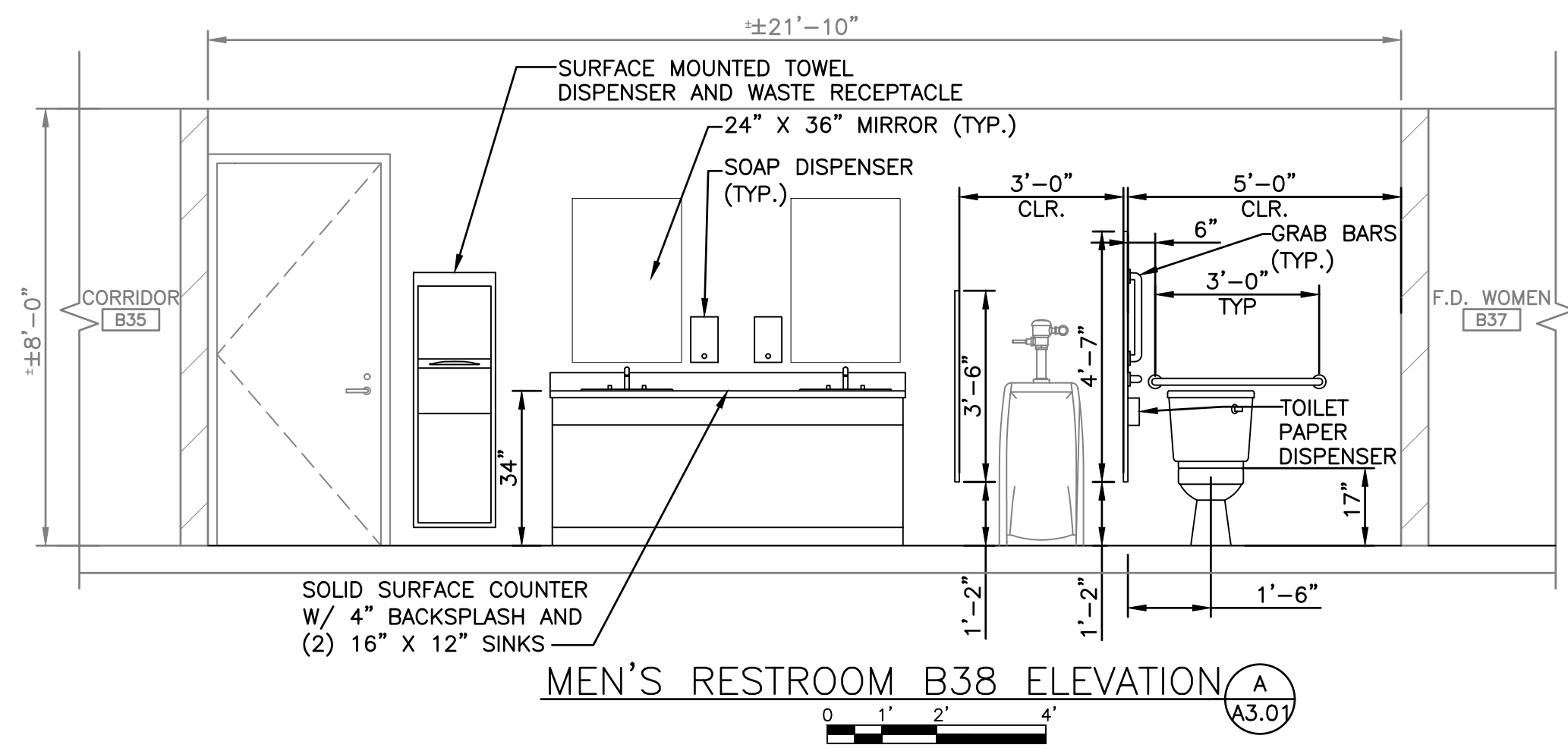
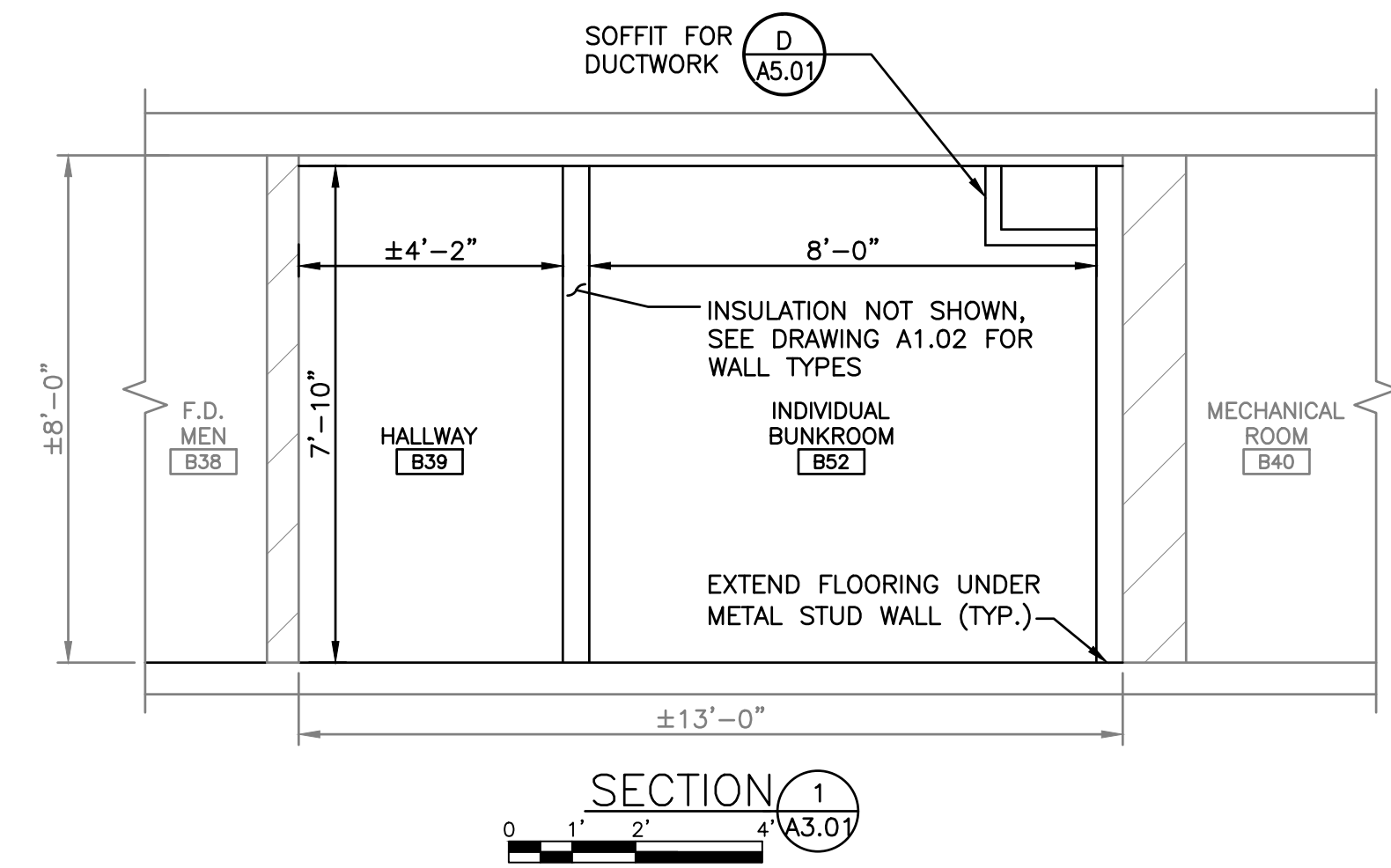
FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL  
CITY OF WHITEWATER  
WHITEWATER, WISCONSIN

JOB NO.  
1407.136

PROJECT MGR.  
EVAN CONSTANT

**SA**  
**STRAND**  
ASSOCIATES®

SHEET  
6  
A1.02



ARCHITECTURAL  
ELEVATIONS AND SECTIONS

FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL  
CITY OF WHITEWATER  
WHITEWATER, WISCONSIN

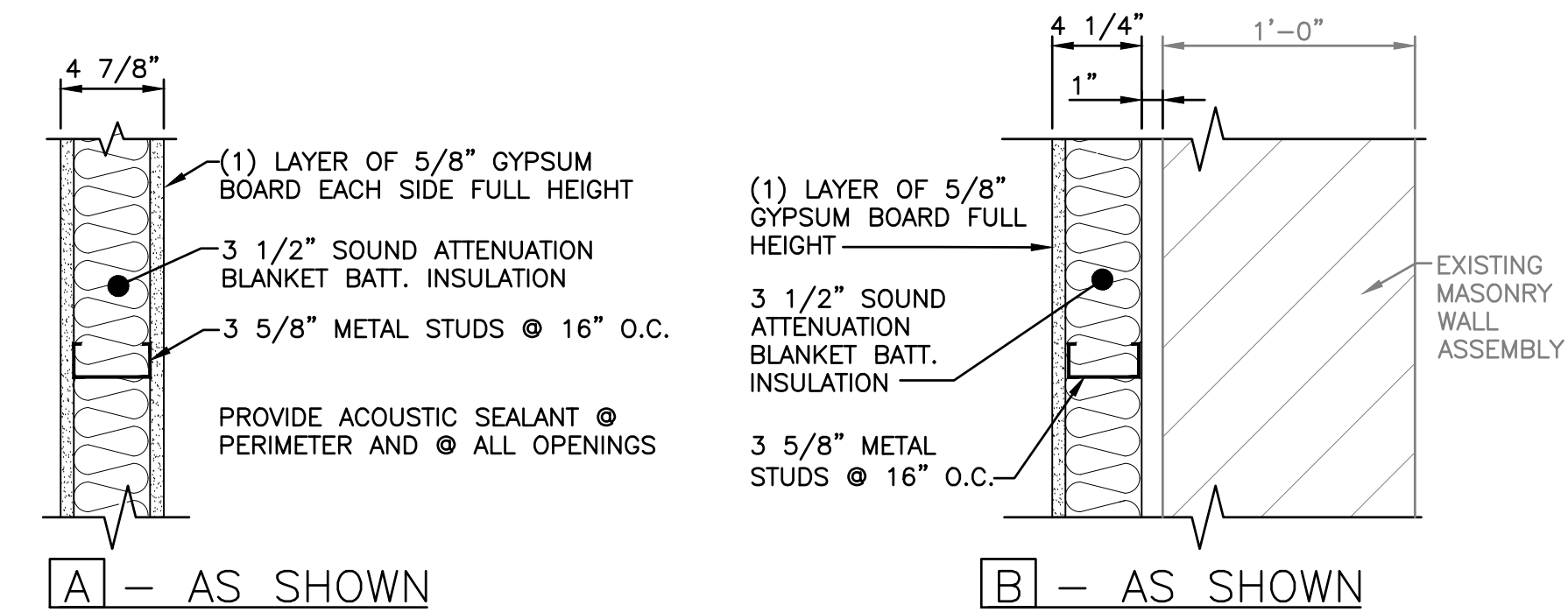
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1407.136  
PROJECT MGR.  
EVAN CONSTANT



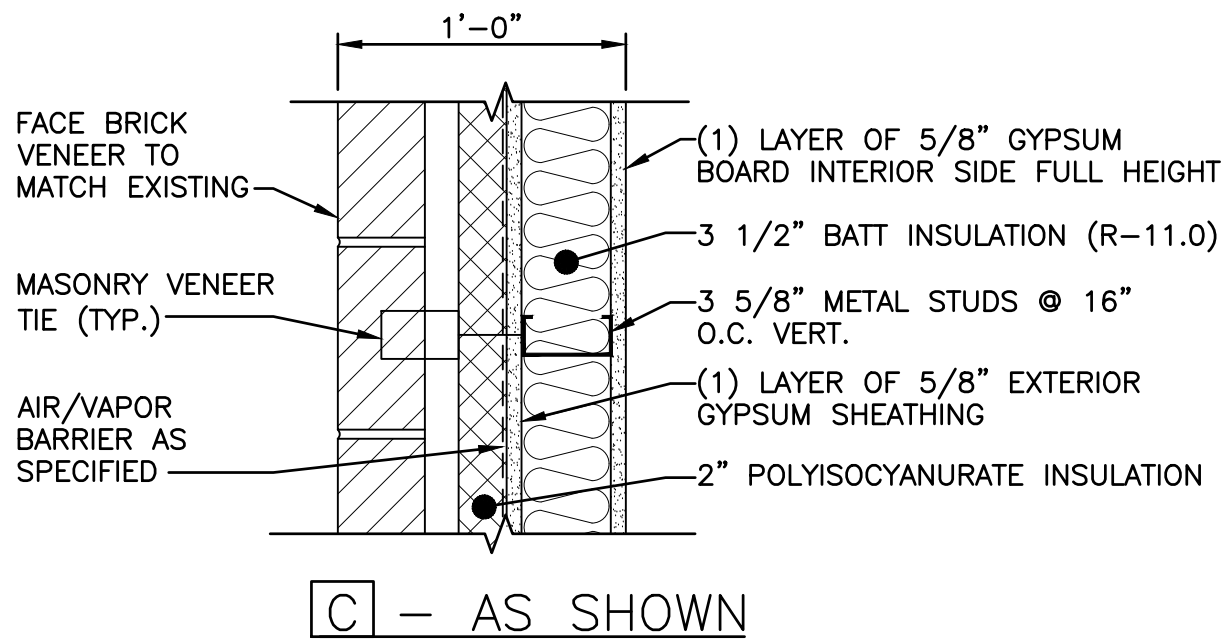
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7  
A3.01



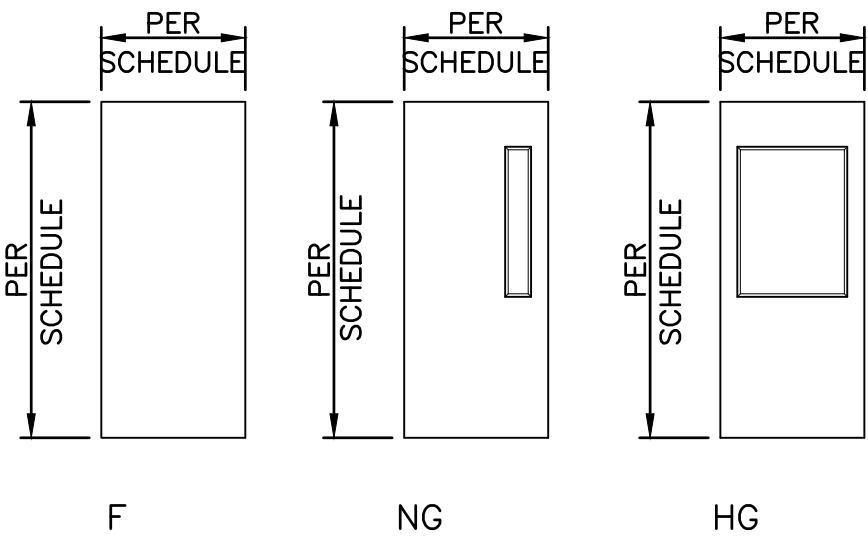
DOOR SCHEDULE																		
DOOR NUMBER	DOOR						FRAME				FIRE RATING	HARDWARE GROUP		LINTEL TYPE	DETAILS			NOTES
	SIZE (W x H)	MATERIAL	TYPE		SWING		MATERIAL	TYPE	PROFILE			ACTIVE	INACTIVE		HEAD	JAMB	SILL	
			ACTIVE	INACTIVE	ACTIVE	INACTIVE												
FIRE DEPARTMENT																		
B39A	4'-0" X 7'-0"	IHM	HG	-	LHR	-	IHM	2	HM-2	HM-2	-	1	-	L7X4X3/8	B/A5.01	B/A5.01	-	1, 2, 4
B39B	3'-0" X 7'-0"	WD	NG	-	LH	-	HM	1	HM-1	HM-1	-	2	-		A/A5.01	A/A5.01	-	1
B48A	3'-0" X 7'-0"	WD	F	-	RH	-	HM	1	HM-1	HM-1	-	3	-		A/A5.01	A/A5.01	-	1, 3
B49A	3'-0" X 7'-0"	WD	F	-	RH	-	HM	1	HM-1	HM-1	-	3	-		A/A5.01	A/A5.01	-	1, 3
B50A	3'-0" X 7'-0"	WD	F	-	RH	-	HM	1	HM-1	HM-1	-	3	-		A/A5.01	A/A5.01	-	1, 3
B51A	3'-0" X 7'-0"	WD	F	-	RH	-	HM	1	HM-1	HM-1	-	3	-		A/A5.01	A/A5.01	-	1, 3
B52A	3'-0" X 7'-0"	WD	F	-	RH	-	HM	1	HM-1	HM-1	-	3	-		A/A5.01	A/A5.01	-	1, 3
B53A	3'-0" X 7'-0"	WD	F	-	LH	-	HM	1	HM-1	HM-1	-	3	-		A/A5.01	A/A5.01	-	1, 3
LEGEND:																		
			MATERIAL				TYPE								SWING			
	IHM	=	INSULATED HOLLOW METAL		F	=	FLUSH				LH	=	LEFT HAND					
	HM	=	HOLLOW METAL		HG	=	HALF GLASS				RH	=	RIGHT HAND					
	WD	=	WOOD		NG	=	NARROW GLASS				LHR	=	LEFT HAND REVERSE					
											RHR	=	RIGHT HAND REVERSE					
NOTES:																		
1. SEE SPECIFICATIONS FOR HARDWARE GROUPS.																		
2. PROVIDE SECURITY GLAZING IN DOOR.																		
3. UNDERCUT DOOR BY 2 INCHES.																		
4. REFER TO B/A5.01 FOR LINTEL DETAILS.																		



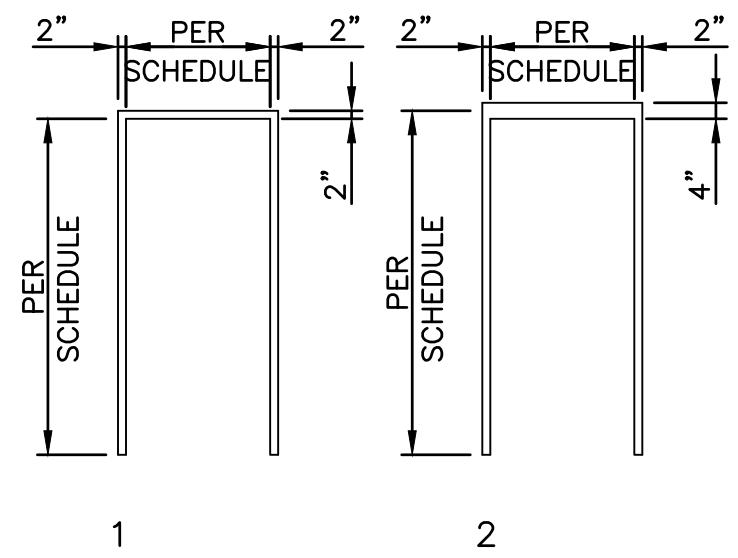
WALL TYPES  
NO SCALE



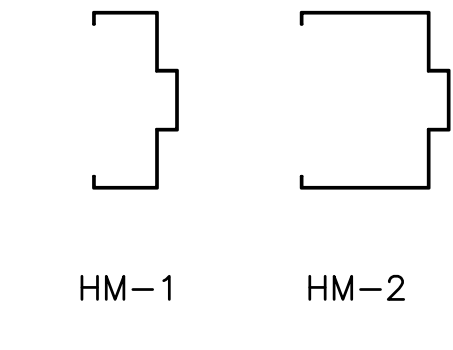
DOOR TYPES  
NO SCALE



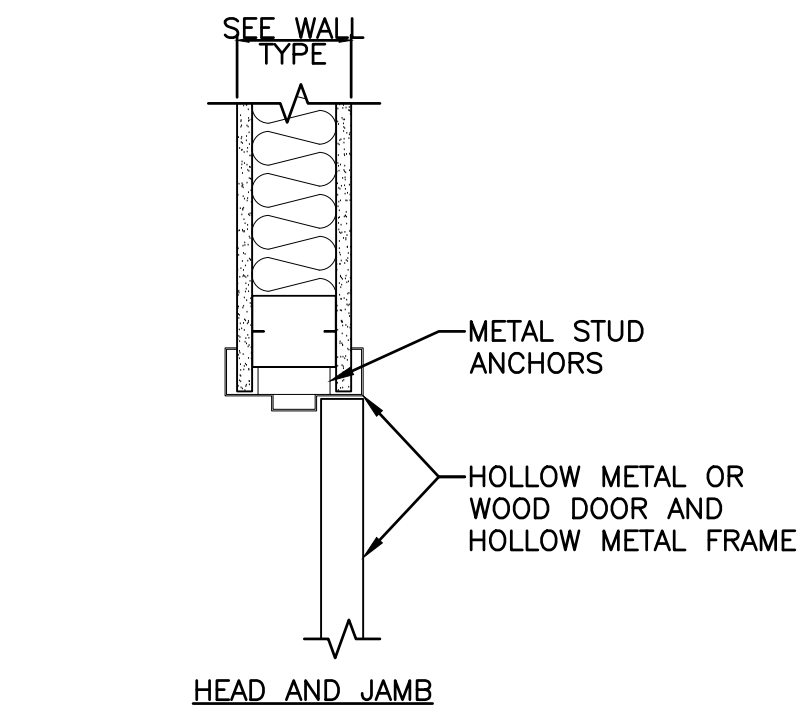
FRAME TYPES  
NO SCALE



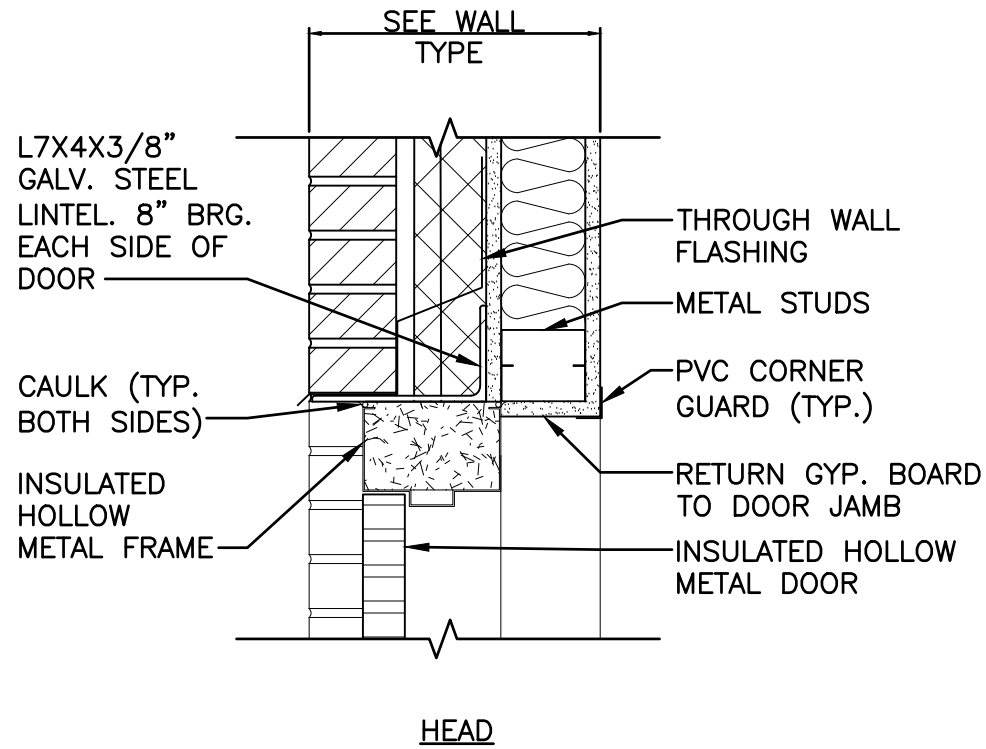
FRAME PROFILES  
NO SCALE



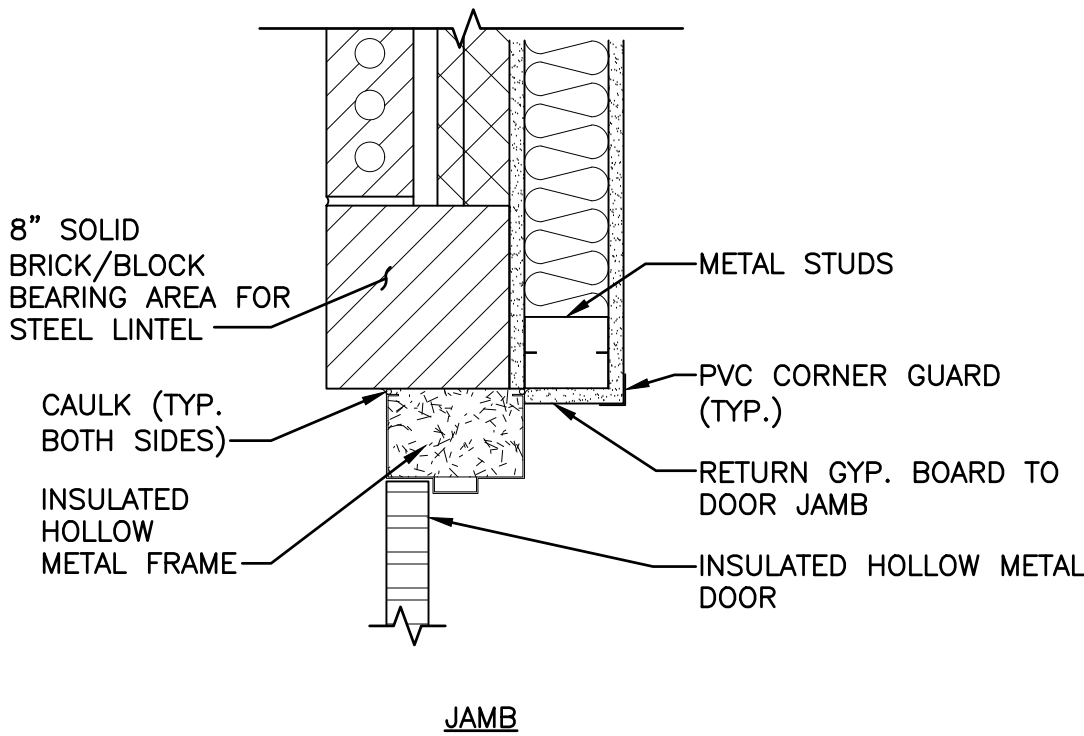
HEAD AND JAMB  
NO SCALE



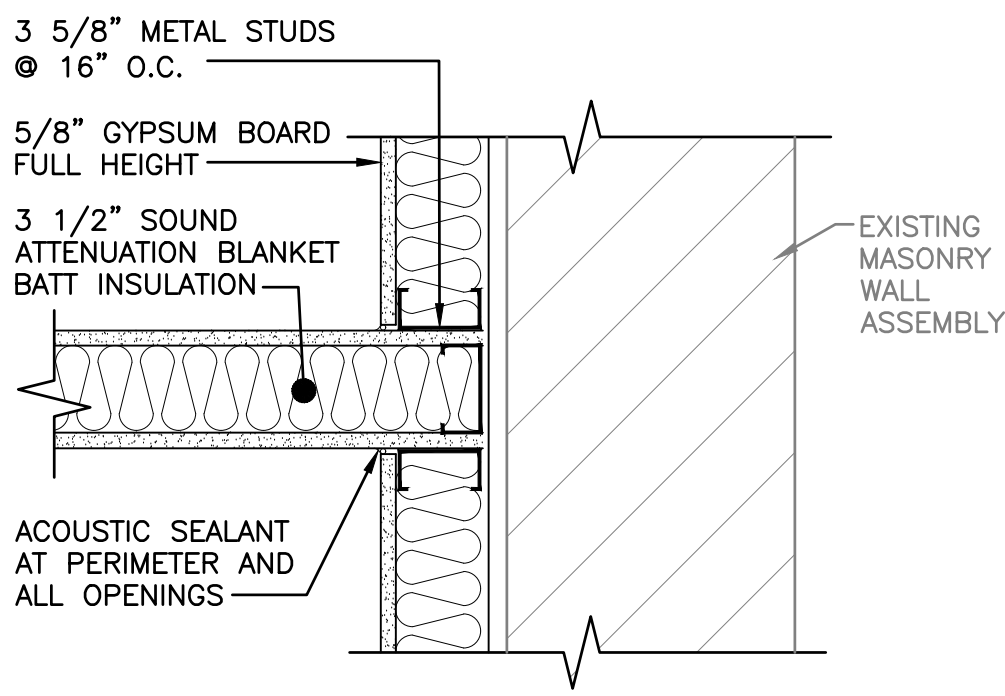
A INTERIOR DOOR DETAIL  
A5.01 NO SCALE



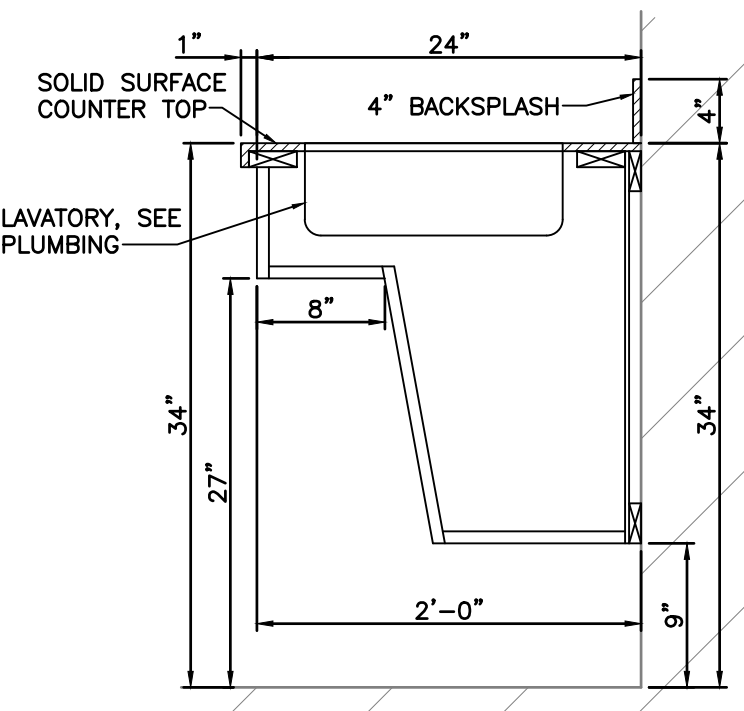
B EXTERIOR DOOR DETAILS  
A5.01 NO SCALE



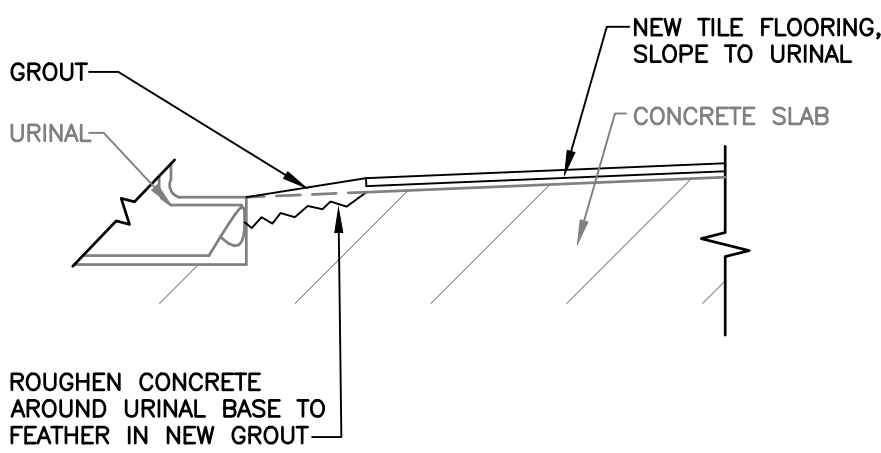
C STUD WALL INTERSECTION  
A5.01 NO SCALE



D SOFFIT FRAMING DETAIL  
A5.01 NO SCALE



E BASE CABINET WITH SINK  
A5.01 NO SCALE



F FLOORING TRANSITION @ URINAL  
A5.01 NO SCALE

ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR	BASE	N. WALL	E. WALL	S. WALL	W. WALL	CEILING		NOTES
								TYPE	HGT.	
B37	F.D. WOMEN	F2	B1	W1	W1	W1, W3	W1	C1	± 8'-0"	1
B38	F.D. MEN	F2	B1	W1, W3	W1	W1	W1	C1	± 8'-0"	1
B39	HALLWAY	F1	B1	W2	W1	W2	W2	C2	± 7'-10"	
B48	INDIVIDUAL BUNKROOM NO. 1	F1	B1	W2	W2	W2	W2	C2	± 7'-10"	
B49	INDIVIDUAL BUNKROOM NO. 2	F1	B1	W2	W2	W2	W2	C2	± 7'-10"	
B50	INDIVIDUAL BUNKROOM NO. 3	F1	B1	W2	W2	W2	W2	C2	± 7'-10"	
B51	INDIVIDUAL BUNKROOM NO. 4	F1	B1	W2	W2	W2	W2	C2	± 7'-10"	
B52	INDIVIDUAL BUNKROOM NO. 5	F1	B1	W2	W2	W2	W2	C2	± 7'-10"	
B53	INDIVIDUAL BUNKROOM NO. 6	F1	B1	W2	W2	W2	W2	C2	± 7'-10"	
LEGEND:										
FLOOR		BASE		WALL		CEILING				
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION			
F1	RESILIENT FLOORING	B1	VINYL WALL BASE	W1	PAINT CONCRETE BLOCK	C1	PAINT PRECAST PLANK			
F2	CERAMIC TILE			W2	PAINT GYPSUM BOARD	C2	PAINT GYPSUM BOARD			
				W3	CERAMIC TILE					
NOTES:										
1. W3 CERAMIC WALL TILE IN SHOWER AREA ONLY. SEE SHOWER ELEVATIONS ON A3.01.										

ARCHITECTURAL  
DETAILS AND SCHEDULES

FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL  
CITY OF WHITEWATER  
WHITEWATER, WISCONSIN

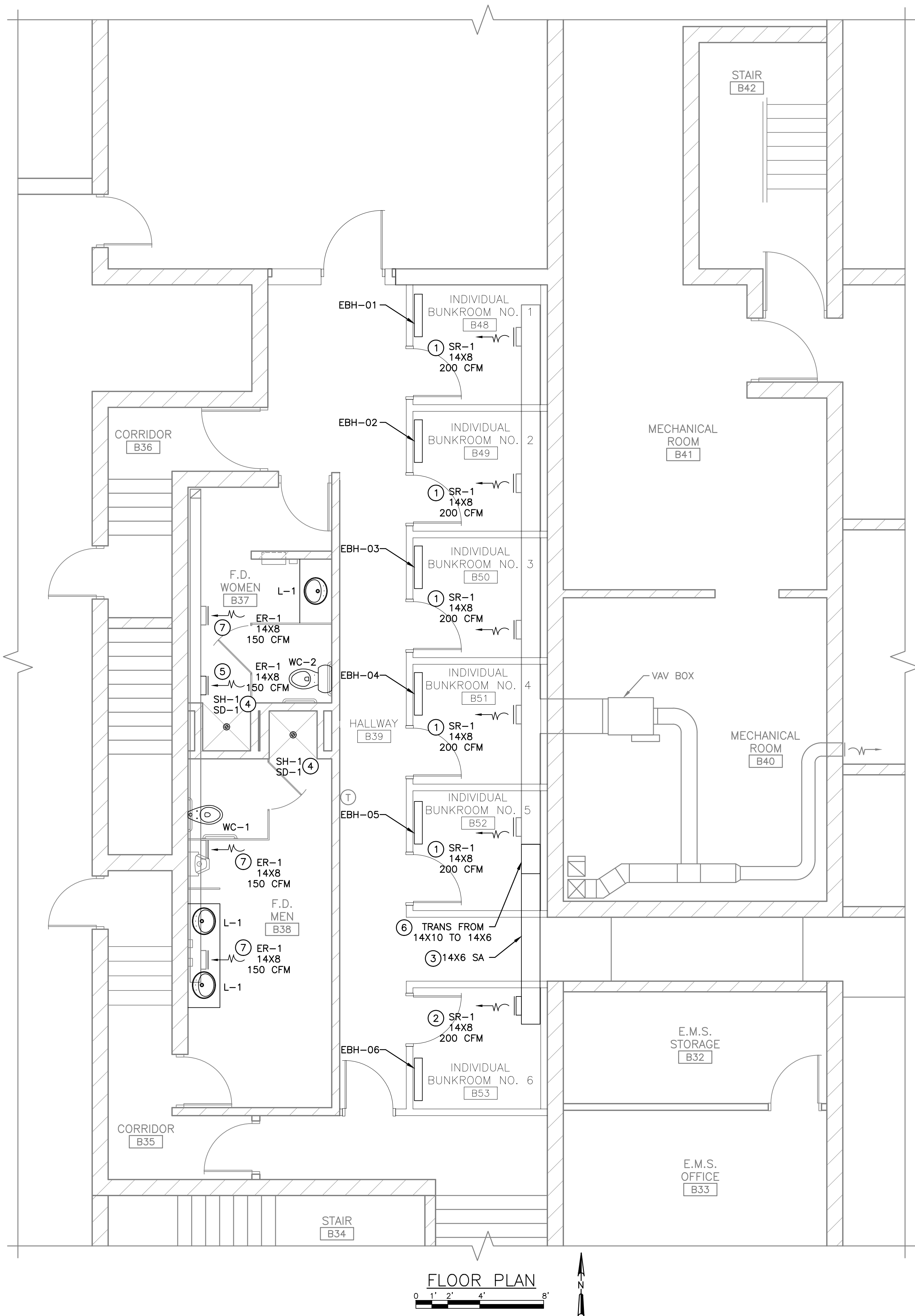
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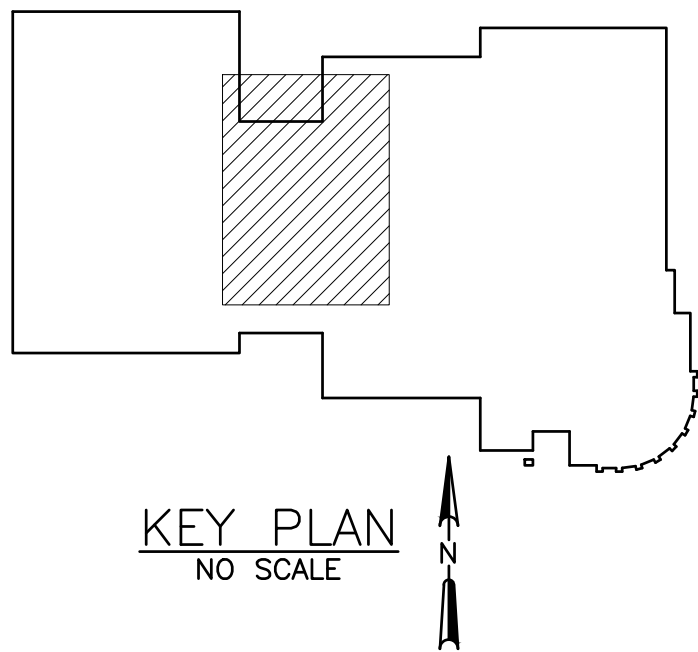


GENERAL NOTES:

1. CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
2. COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
3. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
4. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DUCTWORK AND PIPING OFFSETS REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
6. COORDINATE AND PROVIDE ALL DUCTWORK TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS. FIELD VERIFY AND COORDINATE ALL DUCTWORK DIMENSIONS PRIOR TO FABRICATION.
7. WHERE NEW PLUMBING FIXTURES ARE SHOWN CONTRACTOR SHALL RECONNECT EXISTING WATER SUPPLY PIPING AND SANITARY PIPING TO NEW FIXTURES.

KEY NOTES:

- ① INSTALL NEW SUPPLY REGISTER IN EXISTING DUCT OPENING.
- ② INSTALL NEW SUPPLY REGISTER.
- ③ EXTEND EXISTING DUCTWORK TO SOUTH BUNKROOM.
- ④ REPLACE SHOWER HARDWARE. SEE SPECIFICATIONS FOR REQUIREMENTS.
- ⑤ INSTALL NEW EXHAUST REGISTER. REGISTER SHALL BE OUTSIDE OF THE SHOWER. CONFIRM REGISTER SIZE PRIOR TO ORDERING.
- ⑥ COMPLETE TRANSITION SO BOTTOM OF DUCT IS AS HIGH AS POSSIBLE.
- ⑦ INSTALL NEW EXHAUST REGISTER IN EXISTING TAKE OFF. CONFIRM REGISTER SIZE PRIOR TO ORDERING.



MECHANICAL AND PLUMBING  
FLOOR PLAN

FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL  
CITY OF WHITEWATER  
WHITEWATER, WISCONSIN

NO.	REVISIONS	DATE
A	ISSUED FOR BID	03/26/24

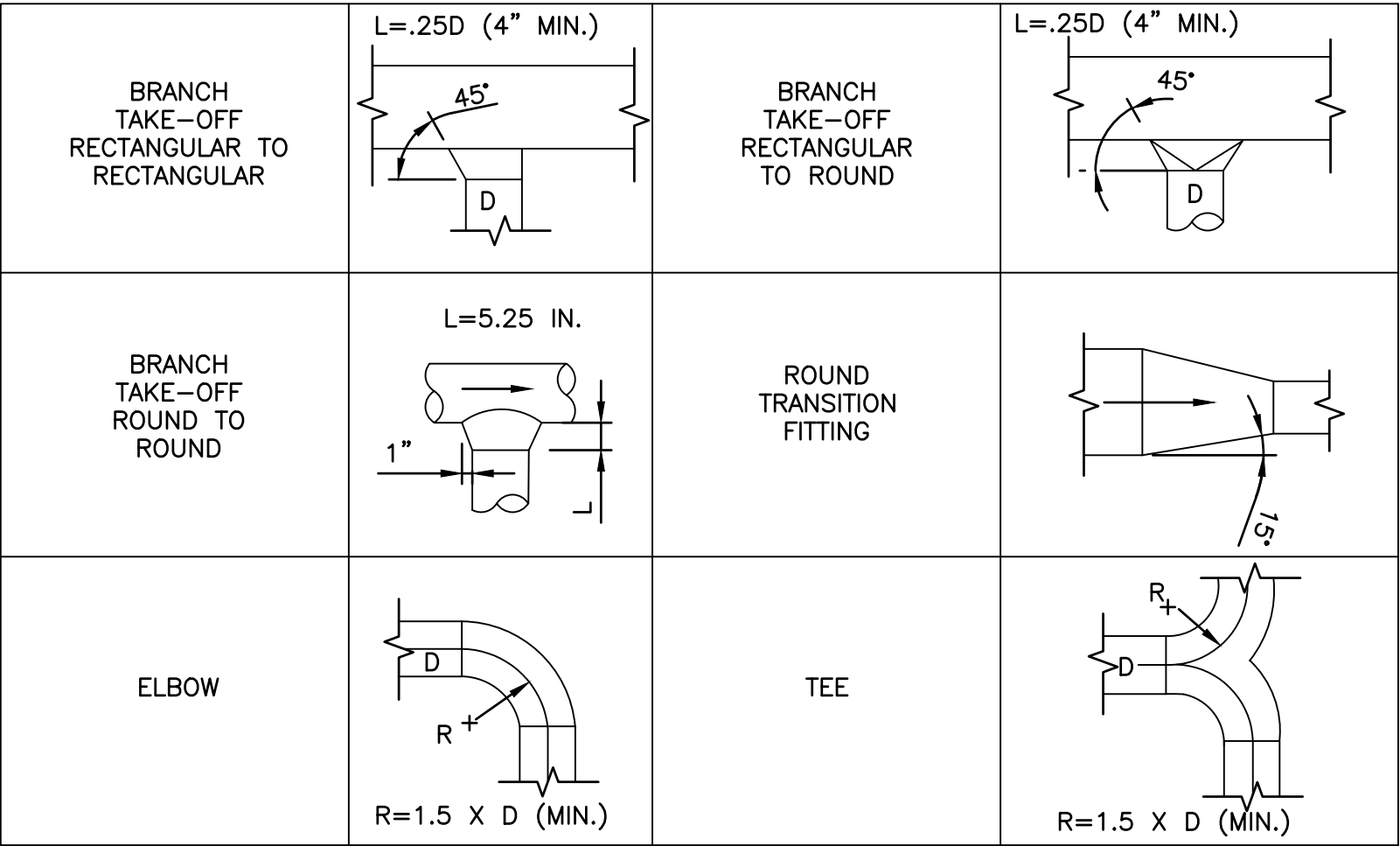
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ELECTRIC BASEBOARD HEATER SCHEDULE									
UNIT NO. EBH--	LOCATION	CADET MODEL NO.	CAPACITY (WATTS)	LENGTH OF UNIT	ELECTRICAL				REMARKS
					VOLTAGE	PHASE	FLA	DISCONNECT BY	
01	BUNKROOM NO. 1	3F750-1W	750	36"	120	1	6.3	DIV. 26	
02	BUNKROOM NO. 2	3F750-1W	750	36"	120	1	6.3	DIV. 26	
03	BUNKROOM NO. 3	3F750-1W	750	36"	120	1	6.3	DIV. 26	
04	BUNKROOM NO. 4	3F750-1W	750	36"	120	1	6.3	DIV. 26	
05	BUNKROOM NO. 5	3F750-1W	750	36"	120	1	6.3	DIV. 26	
06	BUNKROOM NO. 6	3F750-1W	750	36"	120	1	6.3	DIV. 26	



**A** TYPICAL DUCT TAKE-OFF  
MP5.01/ NO SCALE

MECHANICAL AND PLUMBING  
DETAILS AND SCHEDULES

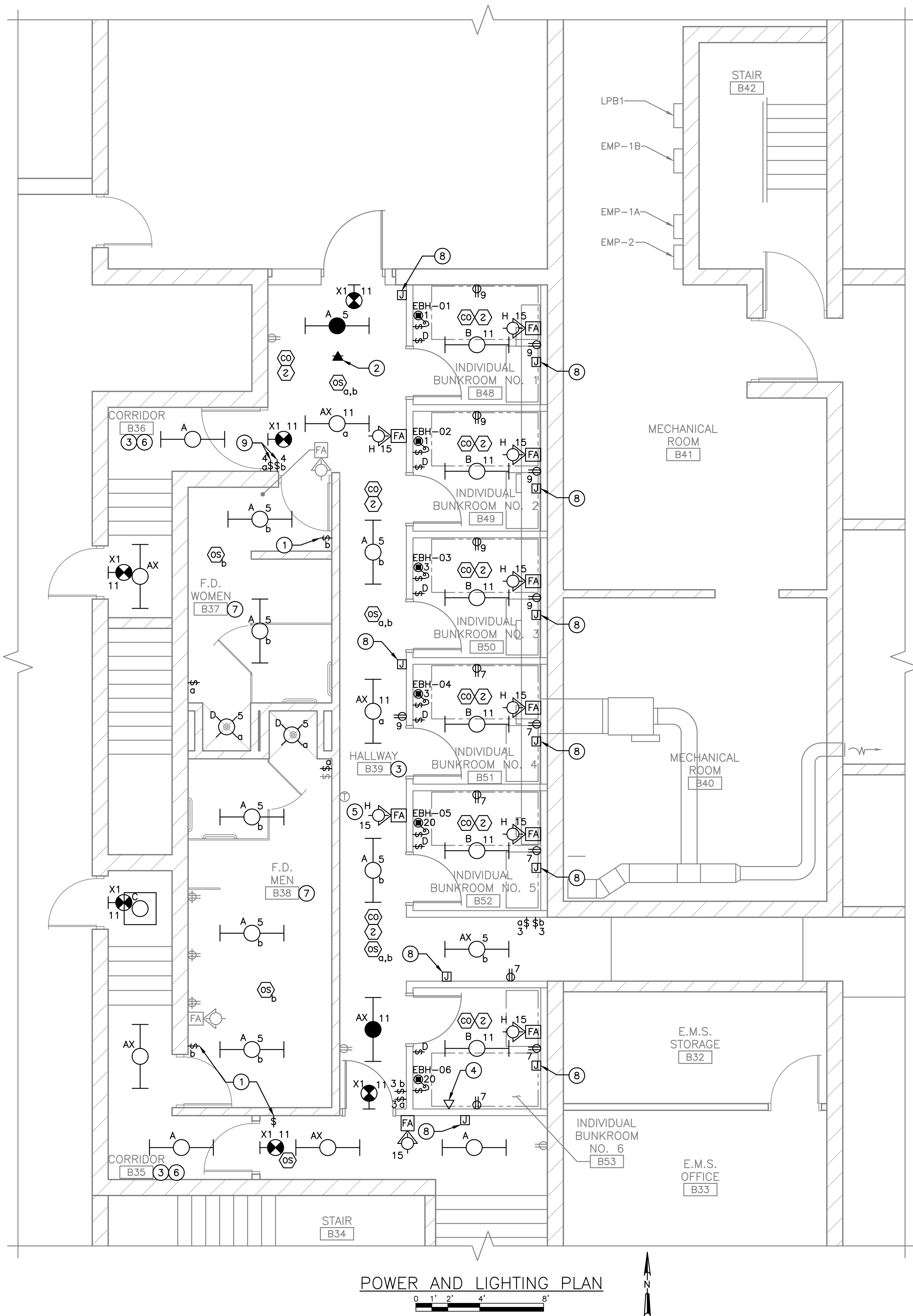
FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL  
CITY OF WHITEWATER  
WHITEWATER, WISCONSIN

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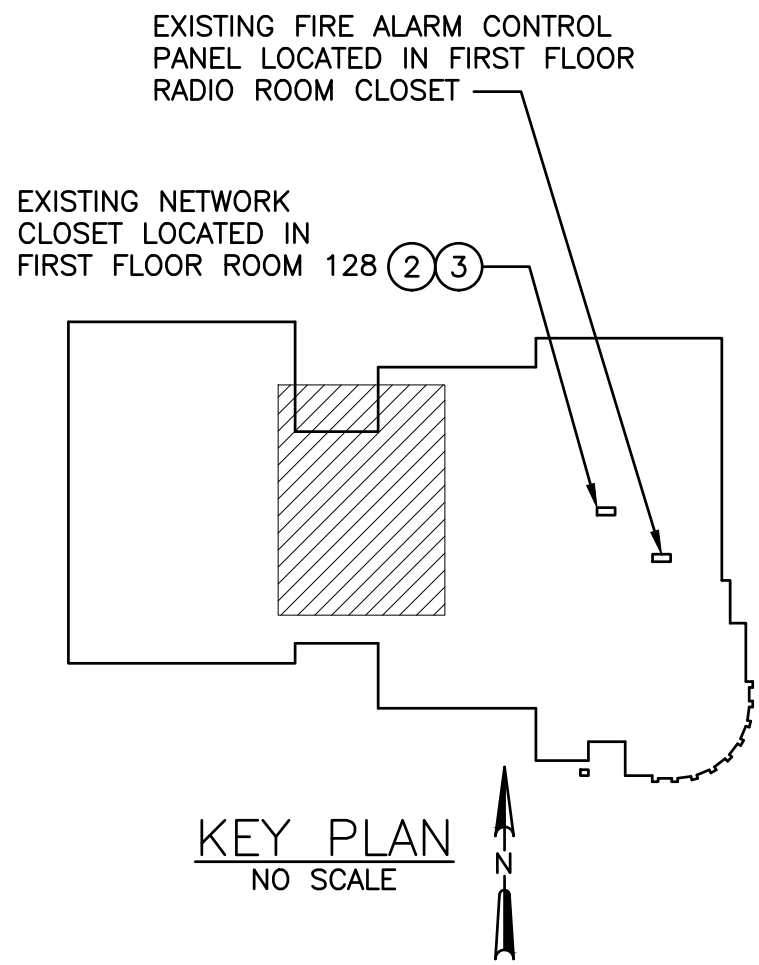
POWER AND LIGHTING PLAN

GENERAL NOTES:

- ALL 120/208V EQUIPMENT ON THIS SHEET SHALL BE POWERED FROM LP-B1, UNLESS OTHERWISE NOTED.
- ALL FIRE ALARM EQUIPMENT ON THIS SHEET SHALL BE WIRED TO CONTROL CENTER AS SHOWN ON KEY PLAN.
- PROVIDE NAC PANELS AS REQUIRED TO POWER FAS ANNUNCIATION DEVICES. PROVIDE A DEDICATED 20A, SINGLE-POLE CIRCUIT BREAKER IN THE NEAREST LIGHTING PANEL AND A 120V BRANCH CIRCUIT TO EACH NAC PANEL. PROVIDE SMOKE DETECTOR OVER EACH NAC PANEL LOCATION. CIRCUIT BREAKERS SHALL BE RED AND PERMANENTLY LABELED FOR NFPA.
- ALL CONDUIT PENETRATIONS BETWEEN INTERIOR SPACES SHALL BE CONSIDERED FIRE-RATED PENETRATIONS AND SHALL BE SEALED TO MAINTAIN THE EXISTING FIRE RATING.

KEY NOTES:

- PROVIDE NEW SWITCH IN EXISTING OUTLET BOX. PROVIDE NEW WIRING IN EXISTING CONDUIT.
- PROVIDE CAT6 CABLE IN SURFACE RACEWAY TO ROOM 128 NETWORK CLOSET FOR WIRELESS ACCESS POINTS. WIRELESS ACCESS POINTS FURNISHED AND CONFIGURED BY OWNER. IN AREAS OUTSIDE OF BUNK ROOM, CABLE SHALL BE ROUTED IN 3/4" CONDUIT.
- PROVIDE SURFACE MOUNTED RACEWAY IN HALLWAY FOR ALL ELECTRICAL DEVICES.
- PROVIDE CAT6 CABLE IN 3/4" CONDUIT TO ROOM 128 NETWORK CLOSET FROM DEVICE.
- RELOCATED FIRE ALARM DEVICE FROM AREA SHOWN ON DRAWING D1.01. PROVIDE CONDUIT AND WIRING AS NEEDED.
- NEW LIGHTS SHALL BE POWERED FROM EXISTING CIRCUIT AND CONTROLLED BY EXISTING SWITCHES. PROVIDE CONDUIT AND WIRING AS NEEDED.
- LIGHTS IN RESTROOMS SHALL BE POWERED FROM SAME CIRCUIT USED FOR REMOVED FIXTURES. PROVIDE CONDUIT AND WIRING AS NEEDED.
- PROVIDE RECESSED 4"x4" JUNCTION BOX AND 1" CONDUIT FROM BOX TO 2'-0" ABOVE CEILING FOR FUTURE EQUIPMENT.
- EXISTING WALL SHALL BE MODIFIED TO ALLOW FOR NEW DOUBLE GANG OUTLET BOX IN EXISTING LOCATION. NEW WIRING SHALL BE ROUTED IN EXISTING CONDUIT. PROVIDE ADDITIONAL CONDUIT AS REQUIRED.



ELECTRICAL  
POWER AND LIGHTING PLAN

FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL  
CITY OF WHITEWATER  
WHITEWATER, WISCONSIN

NO.	REVISIONS	DATE:
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FIXTURE SCHEDULE				
Fixture Type	Manufacturer(s)	Model Number	Mounting	Remarks
A	LITHONIA	CPANL-1X4-ALO1-SWW7-M4-DCMK 14	SURFACE	
AX	LITHONIA	CPANL-1X4-ALO1-SWW7-M4-DCMK 14 -ILB CP10 A	SURFACE	
B	LITHONIA	CPANL-2X4-ALO6-SWW7-M2-DCMK 224	SURFACE	
C	LITHONIA	CPANL-2X2-ALO1-SWW7-M4	RECESSED	
D	TGS	880810-RW-TM-CC	SURFACE	
X1	SURE-LITES	APC7RSQ	SURFACE	PROVIDE CHEVRON AS REQUIRED

EXISTING LIGHTING PANEL LP-B1														
Service:			120/208V, 3Ø, 4W			Enclosure: NEMA 1			Mounting:			Surface		
Main Breaker:			200A						Main Bus:			Copper		
Location:			Mechanical Room B41						SCIC:			10 kAIC		
Room Number/Description												Room Number/Description		
BUNK ROOM HEATERS	20	1	1	1,512			-			2	1	20	EXISTING LOAD	
BUNK ROOM HEATERS	20	1	3		1,512			-		4	1	20	EXISTING LOAD	
RESTROOM AND HALLWAY LIGHTING	20	1	5			332			-	6	1	20	EXISTING LOAD	
BUNK ROOM AREA RECEPTACLES	20	1	7	1,260			-			8	1	20	EXISTING LOAD	
BUNK ROOM AREA RECEPTACLES	20	1	9		1,260			-		10	1	20	EXISTING LOAD	
HALLWAY AND BUNKROOM LIGHTING	20	1	11			388			-	12	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	13	-			-			14	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	15		-			-		16	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	17			-			-	18	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	19	-			1,512			20	1	20	BUNK ROOM HEATERS	
EXISTING LOAD	20	1	21		-			-		22	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	23			-			-	24	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	25	-			-			26	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	27		-			-		28	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	29			-			-	30	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	31	-			-			32	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	33		-			-		34	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	35			-			-	36	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	37	-			-			38	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	39		-			-		40	1	20	EXISTING LOAD	
EXISTING LOAD	20	1	41			-			-	42	1	20	EXISTING LOAD	
Total Load per Phase per Side (VA)				2772	2772	720	1512	0	0					
Total Load Phase A (VA)		4284	VA	* PROVIDE NEW CIRCUIT BREAKER WITHIN EXISTING SPACE. EXISTING PANELBOARD IS EATON POWRLINE 1A. NEW CIRCUIT BREAKERS SHALL MATCH EXISTING BRANCH CIRCUIT BREAKERS						Total Connected Load		22	A	
Total Load Phase B (VA)		2772	VA							Total Connected Load + 25%		27	A	
Total Load Phase C (VA)		720	VA	** USE EXISTING CIRCUIT BREAKER						Spare 25%		7	A	
Total Connected Load (VA)		7776	VA							Feeder Load		34	A	

ELECTRICAL  
DETAILS AND SCHEDULES

FIRE DEPARTMENT BUNK ROOM AND RESTROOM REMODEL  
CITY OF WHITEWATER  
WHITEWATER, WISCONSIN

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