

# RIVERLAND ENERGY COOPERATIVE

## ALMA CITY HALL REMODEL - PHASE 1

1225 SOUTH MAIN STREET  
ALMA, WISCONSIN 54610

L&P PROJECT NO: 25020

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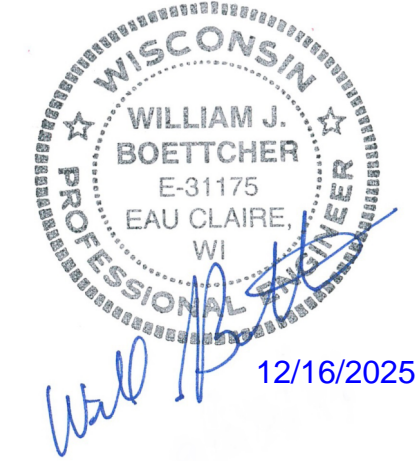
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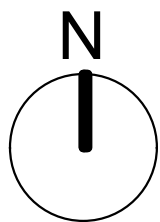
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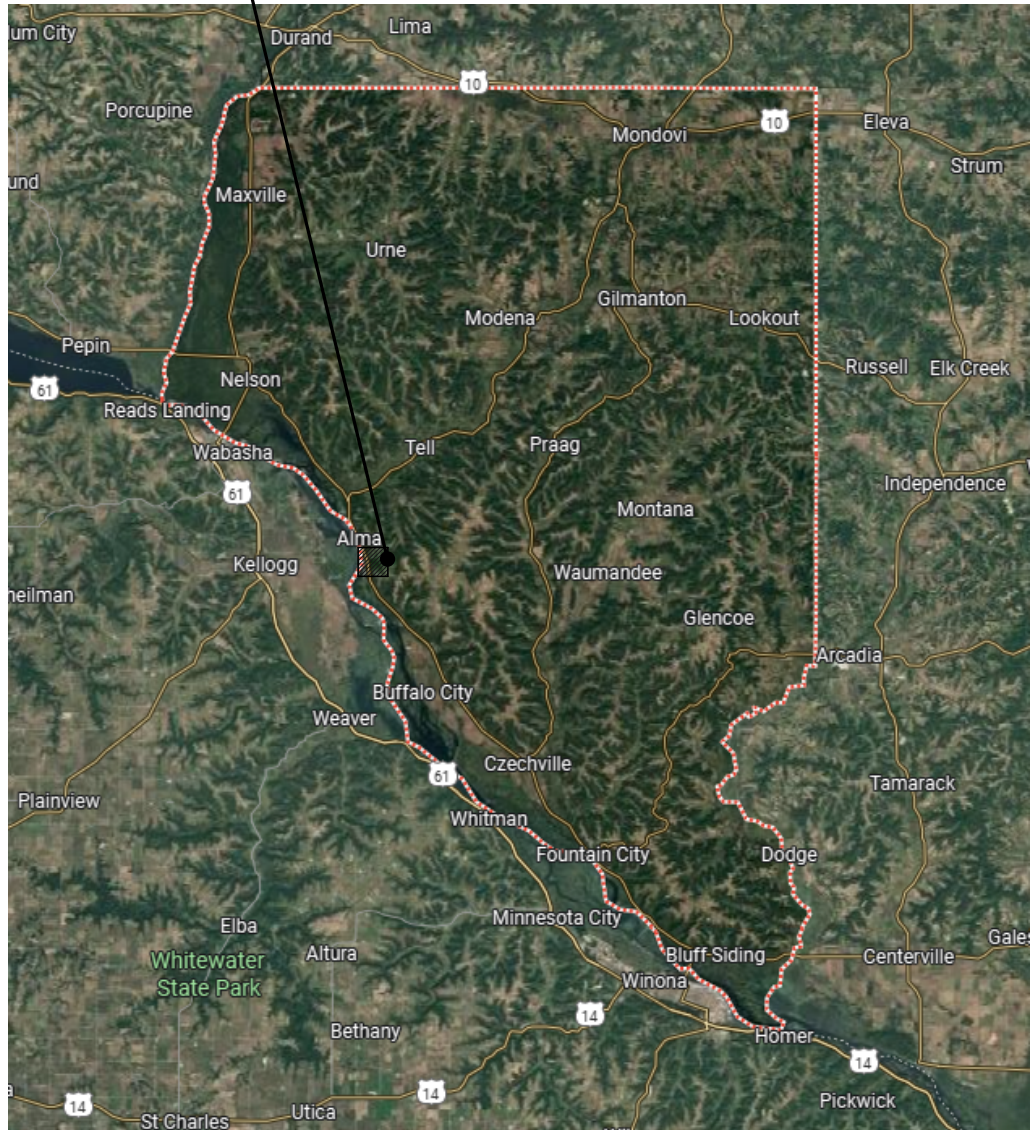
**PROJECT SITE:**  
1225 SOUTH MAIN STREET  
ALMA, WI 54610



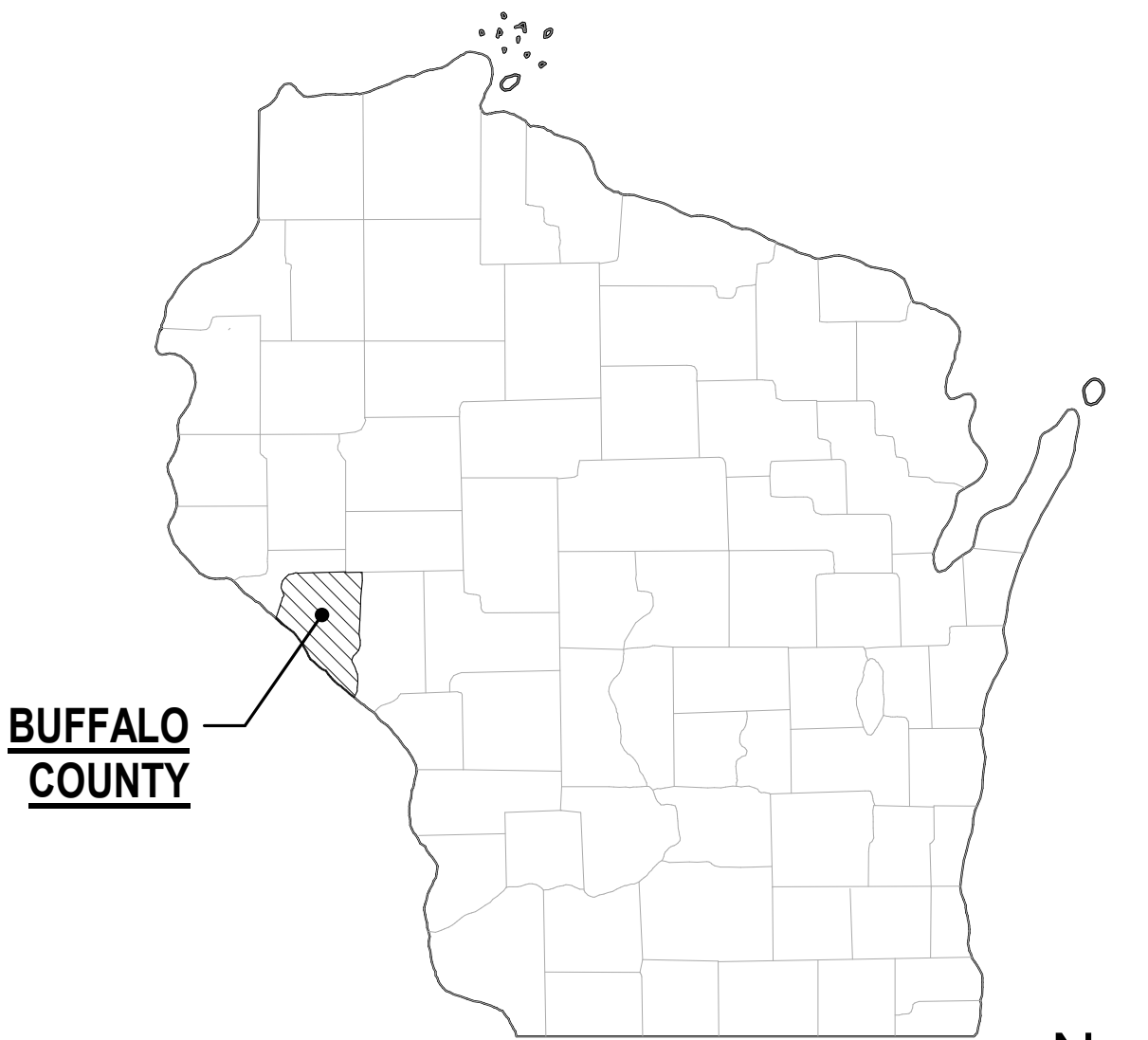
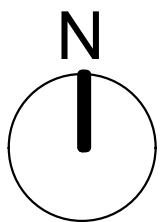
**3 VICINITY MAP**  
N.T.S.



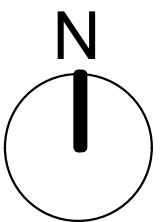
**PROJECT SITE**



**2 BUFFALO COUNTY MAP**  
N.T.S.



**1 STATE MAP**  
N.T.S.



**PROJECT CONTACTS:**

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TITLE SHEET, SHEET  
INDEX, PROJECT  
LOCATION MAPS

REVISIONS:	
NO.	DATE
1	12/16/2025

ISSUE DATE:  
DECEMBER 16, 2025

G101

L&P PROJECT # 25020

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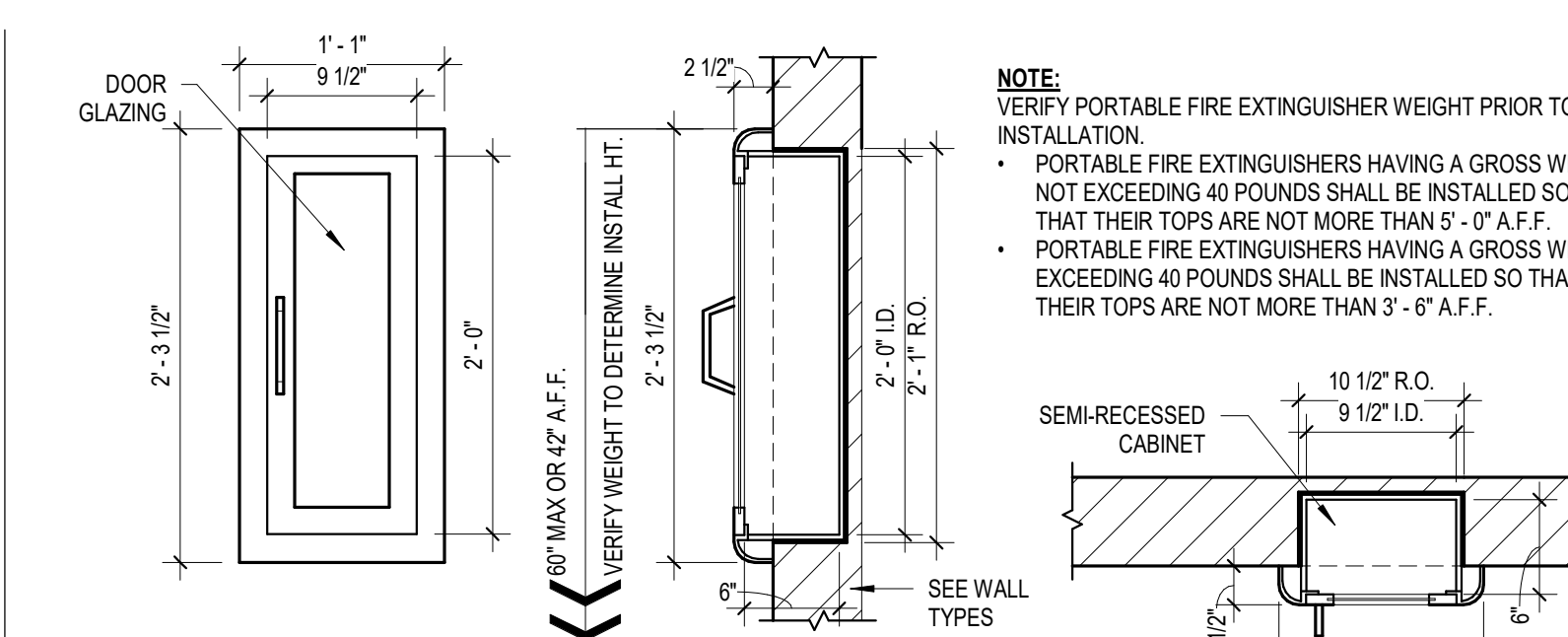
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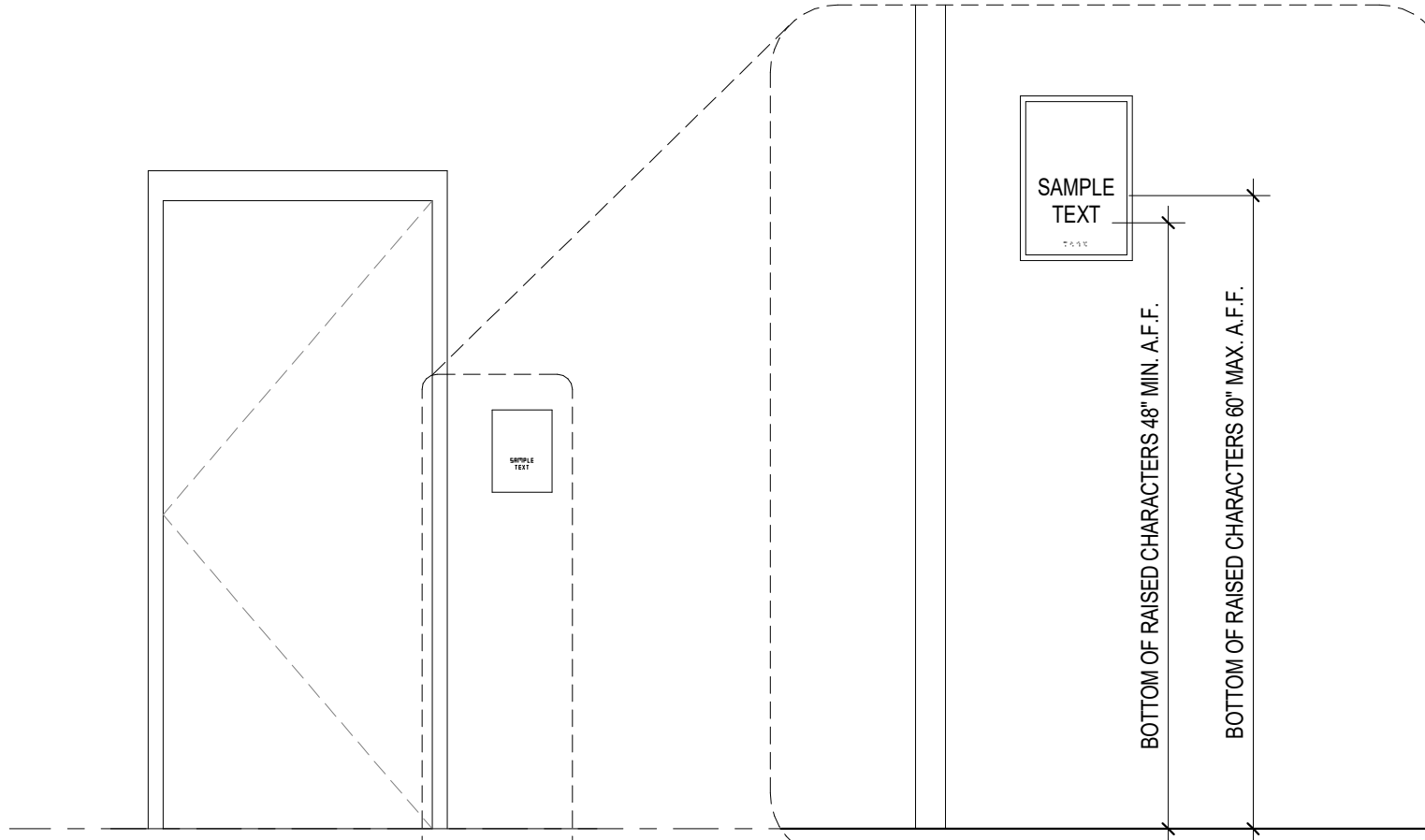






## 10 FIRE EXTINGUISHERS

1" = 1'-0"



NOTE: SIGN AND SIGN INSTALLATION MUST COMPLY WITH CHAPTER 7 OF ANSI ICC A117.1-2009. SIGN TO MEET ALL ADA COMPLIANT REQUIREMENTS.

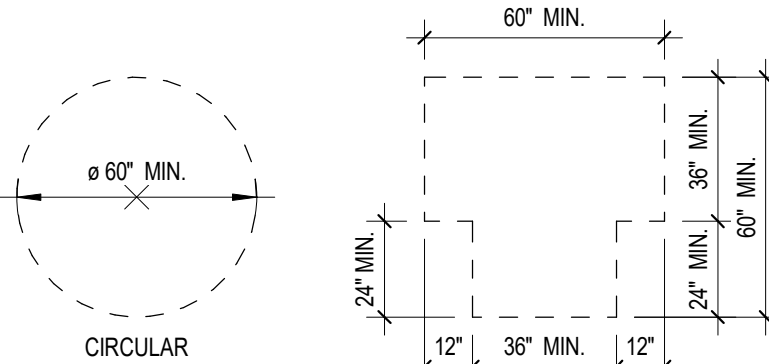
NOTE: "NOT NECESSARILY EXACT SING TYPE SHOWN. VERIFY ALL SIGNAGE WITH ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.

## 7 ROOM SIGNAGE

1/2" = 1'-0"

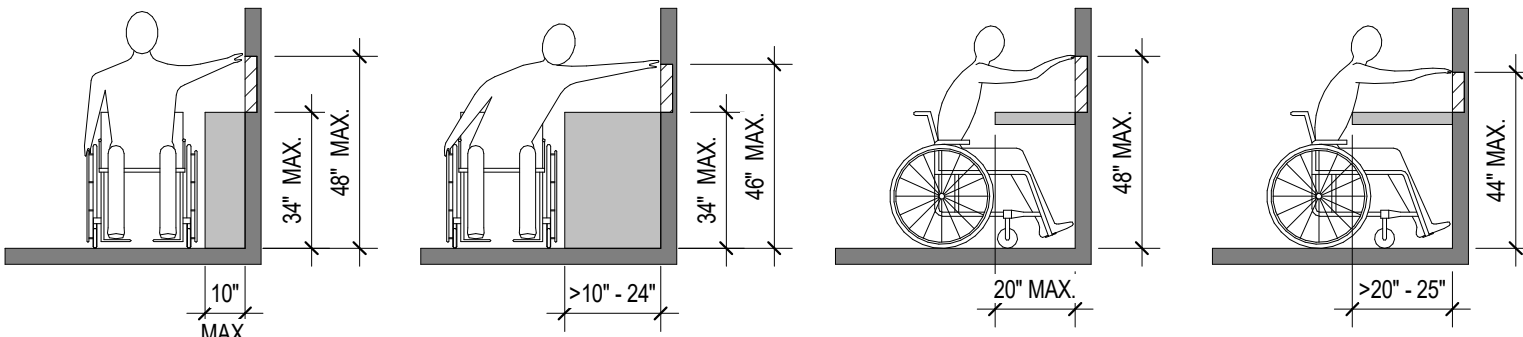
### TURNING SPACE

- CIRCULAR SPACE: THE TURNING SPACE SHALL BE A CIRCULAR SPACE WITH A 60 INCH MINIMUM DIAMETER. THE TURNING SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE REQUIREMENTS.
- T-SHAPED SPACE: THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH MINIMUM SQUARE. WITH ARMS AND BASE 36 INCHES MINIMUM IN WIDTH. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES MINIMUM. THE TURNING SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE REQUIREMENTS.



## 6 CLEAR FLOOR SPACE

1/4" = 1'-0"

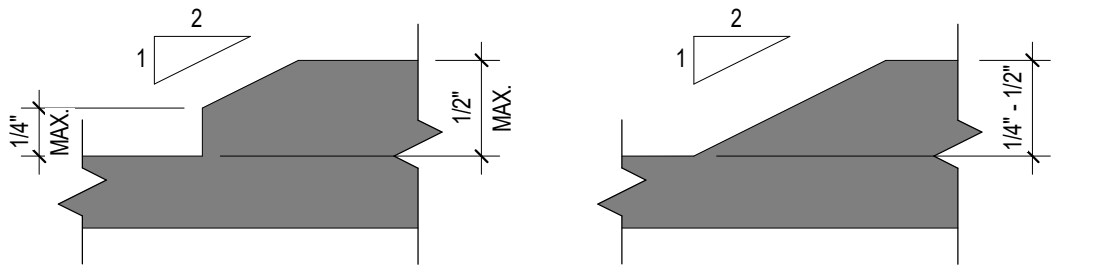


## 5 UNOBSTRUCTED REACH RANGES

1/4" = 1'-0"

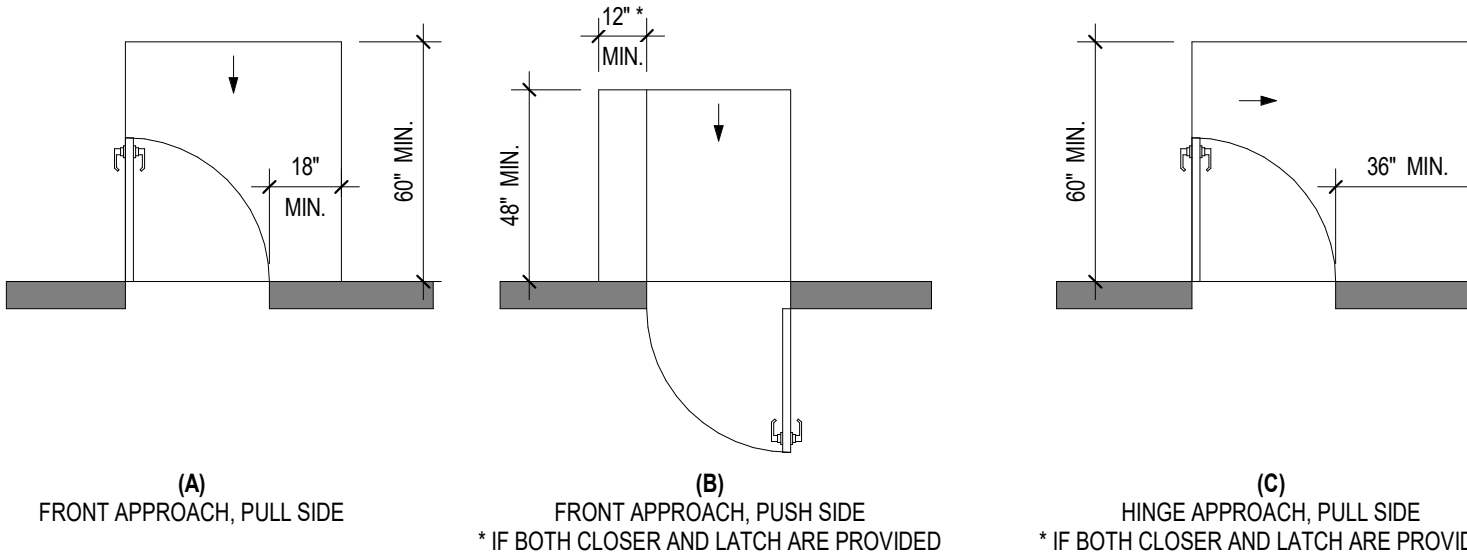
### CHANGES IN LEVEL

- VERTICAL CHANGES IN LEVEL OF 1/4 INCH MAXIMUM IN HEIGHT SHALL BE PERMITTED TO BE VERTICAL.
- BEVELED CHANGES IN LEVEL GREATER THAN 1/4 INCH IN HEIGHT AND NOT MORE THAN 1/2 INCH SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.



## 4 CHANGES IN LEVEL

12" = 1'-0"

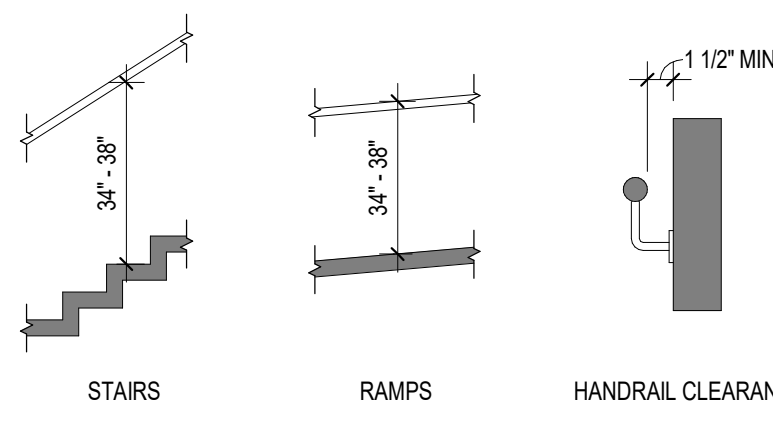


## 2 MANUAL SWING DOOR MANEUVERING CLEARANCES

1/4" = 1'-0"

### HANDRAILS

- HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.
- HANDRAILS ARE NOT REQUIRED IN ASSEMBLY SEATING AREAS ON BOTH SIDES ALONG AISLE STAIRS, PROVIDED WITH A HANDRAIL EITHER SIDE OR WITHIN THE AISLE NOR ON THE SIDES OF RAMPED AISLES SERVING SEATS IN ASSEMBLY SEATING AREAS.
- TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE STAIR NOSING, RAMP SURFACES AND WALKING SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE STAIR NOSINGS, RAMP SURFACES AND WALKING SURFACES.
- CLEARANCE BETWEEN HANDRAIL, GRIPPING SURFACE AND ADJACENT SURFACES SHALL BE 1 1/2 INCHES MINIMUM.
- GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.



## 9 HANDRAILS

1/4" = 1'-0"

### HANDICAP ACCESSIBLE TOILET ROOM NOTES:

- THE ACCESSIBLE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES MINIMUM AND 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION.
- WATER CLOSETS LOCATED IN AMBULATORY ACCESSIBLE COMPARTMENTS SHALL HAVE THE CENTERLINE OF THE WATER CLOSET 17 INCHES MINIMUM AND 19 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION.
- GRAB BAR @ REAR WALL 36" LONG, 6" FROM WALL; MOUNT 36" ABOVE FLOOR TO THE TOP OF THE GRIPPING SURFACE.
- GRAB BARS @ SIDE WALL HORIZONTAL: 42" LONG, 12" FROM WALL; MOUNT 36" ABOVE FLOOR TO TOP OF GRIPPING SURFACE.
- GRAB BAR @ SIDE WALL VERTICAL: 18" LONG, 39-41" ABOVE FLOOR FROM BOTTOM OF BAR.
- TOILET PAPER DISPENSER ABOVE GRAB BAR: OUTLET OF DISPENSER SHALL BE 24-36" FROM REAR WALL. OUTLET SHALL BE 12" MINIMUM ABOVE GRAB BAR AND 48" MAX ABOVE FINISHED FLOOR.
- TOILET PAPER DISPENSER BELOW GRAB BAR: OUTLET OF DISPENSER SHALL BE 24-42" FROM REAR WALL. OUTLET SHALL BE 15" MINIMUM BELOW GRAB BAR AND 18" MINIMUM ABOVE FINISHED FLOOR.
- HANDICAPPED TOILET: INSTALL AT LEAST 17" FROM FLOOR TO TOP OF SEAT; FLUSH CONTROL TO OPEN SIDE OF ROOM.
- MOUNT RIM OF SINK 34" ABOVE FLOOR; PROVIDE CLEARANCE OF 27" TO BOTTOM OF SINK APRON; PROVIDE PIPE INSULATED PROTECTION.
- MOUNT MIRROR W/BOTTOM EDGE OF REFLECTING SURFACE NO HIGHER THAN 40" ABOVE FINISHED FLOOR.

### CHILDREN HANDICAP ACCESSIBLE TOILET ROOM NOTES:

- WATER CLOSETS PRIMARILY FOR CHILDREN'S USE SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 12 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION.
- THE HEIGHT OF A WATER CLOSET SEAT PRIMARILY FOR CHILDREN'S USE SHALL BE 11 INCHES MINIMUM AND 17 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.
- CHILDREN'S GRAB BARS: AT WATER CLOSETS PRIMARILY FOR CHILDREN'S USE, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION AND 27 INCHES MAXIMUM AND 21 INCHES MINIMUM ABOVE THE FLOOR, MEASURED TO THE TOP OF THE GRIPPING SURFACE. A VERTICAL GRAB BAR SHALL BE MOUNTED WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 21 INCHES MINIMUM AND 30 INCHES MAXIMUM ABOVE THE FLOOR AND WITH THE CENTERLINE OF THE BAR LOCATED BETWEEN 34 INCHES MINIMUM AND 36 INCHES MAXIMUM FROM THE REAR WALL.
- TOILET PAPER DISPENSERS PRIMARILY FOR CHILDREN'S USE SHALL BE LOCATED WITHIN AN AREA 24 INCHES MINIMUM AND 42 INCHES MAXIMUM FROM THE REAR WALL. THE OUTLET OF THE DISPENSER SHALL BE 14 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE FLOOR. THERE SHALL BE A CLEARANCE OF 1 1/2 INCHES MINIMUM BELOW THE GRAB BAR. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY OR DO NOT ALLOW CONTINUOUS PAPER FLOW.

### HANDICAP ACCESSIBLE SHOWER NOTES:

#### SHOWER COMPARTMENT SEATS

- THE HEIGHT OF SHOWER COMPARTMENT SEATS SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE BATHROOM FLOOR, MEASURED TO THE TOP OF THE SEAT.
- IN TRANSFER-TYPE SHOWER COMPARTMENTS, THE SEAT SHALL EXTEND ALONG THE SEAT WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY.
- IN STANDARD ROLL-IN-TYPE SHOWER COMPARTMENTS, THE SEAT SHALL EXTEND FROM THE CONTROL WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY.
- FOR RECTANGULAR SEATS, THE REAR EDGE OF THE SEAT SHALL BE 2-1/2 INCHES MAXIMUM AND THE FRONT EDGE 15 INCHES MINIMUM AND 16 INCHES MAXIMUM FROM THE SEAT WALL. THE SIDE EDGE OF THE SEAT SHALL BE 1-1/2 INCHES MAXIMUM FROM THE BACK WALL AND 1-1/2 INCHES MAXIMUM FROM THE CONTROL WALL.
- FOR L-SHAPED SEATS, THE REAR EDGE OF THE SEAT SHALL BE 2-1/2 INCHES MAXIMUM AND THE FRONT EDGE 15 INCHES MINIMUM AND 16 INCHES MAXIMUM FROM THE SEAT WALL. THE REAR EDGE OF THE "L" PORTION OF THE SEAT SHALL BE 1-1/2 INCHES MAXIMUM FROM THE WALL AND THE FRONT EDGE SHALL BE 14 INCHES MINIMUM AND 15 INCHES MAXIMUM FROM THE WALL. THE END OF THE "L" SHALL BE 22 INCHES MINIMUM AND 23 INCHES MAXIMUM FROM THE MAIN SEAT WALL.

#### STANDARD ROLL-IN-TYPE SHOWER COMPARTMENTS

- STANDARD ROLL-IN-TYPE SHOWER COMPARTMENTS SHALL HAVE A CLEAR INSIDE DIMENSION OF 60 INCHES MINIMUM IN WIDTH AND 30 INCHES MINIMUM IN DEPTH, MEASURED AT THE CENTER POINT OF OPPOSING SIDES. AN ENTRY OF 60 INCHES MINIMUM IN WIDTH SHALL BE PROVIDED.
- FOR A STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT, A CLEARANCE OF 60 INCHES MINIMUM IN LENGTH ADJACENT TO THE 60 INCH WIDTH OF THE OPEN FACE OF THE SHOWER COMPARTMENT, AND 30 INCHES MINIMUM IN DEPTH, SHALL BE PROVIDED.
- FOR A STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT, A GRAB BAR SHALL BE PROVIDED ON THE BACK WALL BEGINNING AT THE EDGE OF THE SEAT. THE GRAB BARS SHALL NOT BE PROVIDED ABOVE THE SEAT. THE BACK WALL GRAB BAR SHALL EXTEND THE LENGTH OF THE WALL BUT SHALL NOT BE REQUIRED TO EXCEED 48 INCHES IN LENGTH. WHERE A SIDE WALL IS PROVIDED OPPOSITE THE SEAT WITHIN 12 INCHES OF THE SEAT WALL, A GRAB BAR SHALL BE PROVIDED ON THE SIDE WALL OPPOSITE THE SEAT. THE SIDE WALL GRAB BAR SHALL EXTEND THE LENGTH OF THE WALL BUT SHALL NOT BE REQUIRED TO EXCEED 30 INCHES MAXIMUM FROM THE ADJACENT WALL.
- FOR A STANDARD ROLL-IN-SHOWER COMPARTMENT, THE CONTROLS AND HAND SHOWER SHALL BE LOCATED ON THE BACK WALL ABOVE THE GRAB BAR, 48 INCHES MAXIMUM ABOVE THE SHOWER FLOOR AND 16 INCHES MINIMUM AND 27 INCHES MAXIMUM FROM THE END WALL BEHIND THE SEAT.

#### TRANSFER-TYPE SHOWER COMPARTMENTS

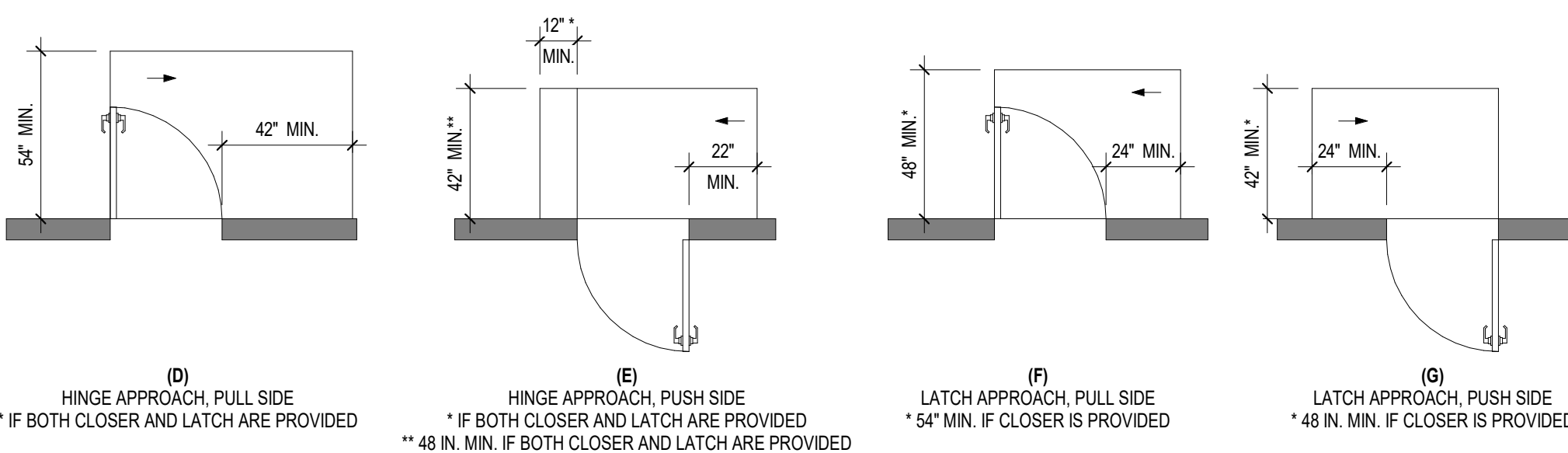
- TRANSFER-TYPE SHOWER COMPARTMENTS SHALL HAVE A CLEAR INSIDE DIMENSION OF 36 INCHES IN WIDTH AND 36 INCHES IN DEPTH, MEASURED AT THE CENTER POINT OF OPPOSING SIDES. AN ENTRY OF 36 INCHES MINIMUM IN WIDTH SHALL BE PROVIDED.
- FOR A TRANSFER-TYPE SHOWER COMPARTMENT, A CLEARANCE OF 48 INCHES MINIMUM IN LENGTH MEASURED PERPENDICULAR FROM THE CONTROL WALL, AND 36 INCHES MINIMUM IN DEPTH SHALL BE PROVIDED ADJACENT TO THE OPEN FACE OF THE COMPARTMENT.
- FOR A TRANSFER-TYPE SHOWER COMPARTMENT, HORIZONTAL GRAB BARS SHALL BE PROVIDED ACROSS THE CONTROL WALL AND ON THE BACK WALL TO A POINT 18 INCHES FROM THE CONTROL WALL. A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE PROVIDED ON THE CONTROL END WALL 3 INCHES MINIMUM AND 8 INCHES MAXIMUM ABOVE THE HORIZONTAL GRAB BAR, AND 4 INCHES MAXIMUM INWARD FROM THE FRONT EDGE OF THE SHOWER.
- IN A TRANSFER-TYPE SHOWER COMPARTMENT, THE CONTROLS AND HAND SHOWER SHALL BE LOCATED ON THE CONTROL WALL OPPOSITE THE SEAT AT A HEIGHT OF 36 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE SHOWER FLOOR AND 15 INCHES MAXIMUM FROM THE CENTERLINE OF THE CONTROL WALL TOWARD THE SHOWER OPENING.

#### HANDICAP ACCESSIBLE DRINKING FOUNTAIN NOTES:

- SPOUT OUTLETS OF WHEELCHAIR ACCESSIBLE DRINKING FOUNTAINS SHALL BE 36 INCHES MAXIMUM ABOVE THE FLOOR. SPOUT OUTLETS FOR STANDING PERSONS SHALL BE 38 INCHES MINIMUM AND 43 INCHES MAXIMUM ABOVE THE FLOOR.
- THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS. WHERE ONLY A PARALLEL APPROACH IS PROVIDED, THE SPOUT SHALL BE LOCATED 3-1/2 INCHES MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS.

## 3 STANDARD MOUNTING HEIGHTS

1/4" = 1'-0"

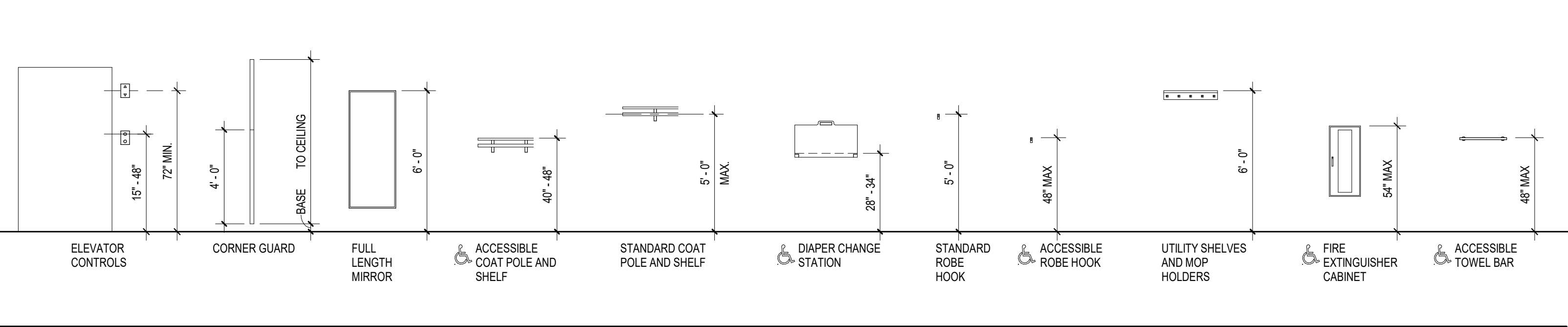
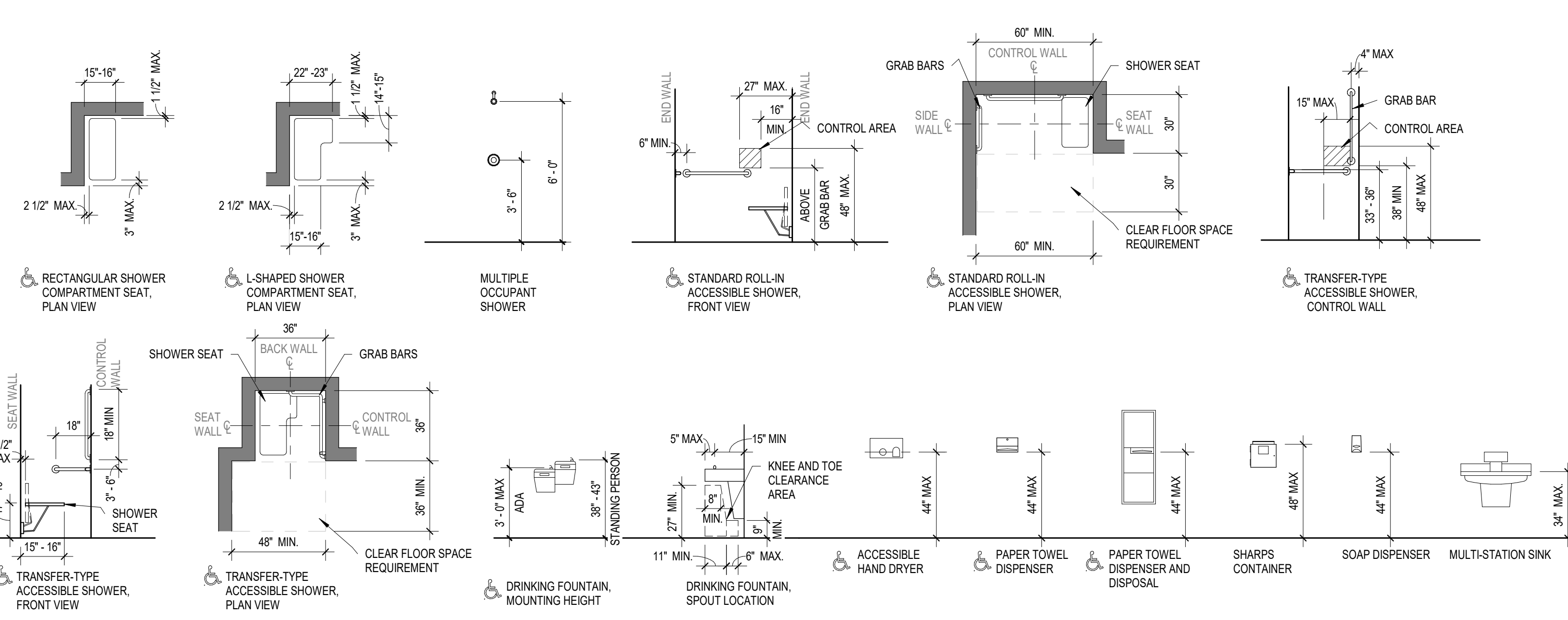
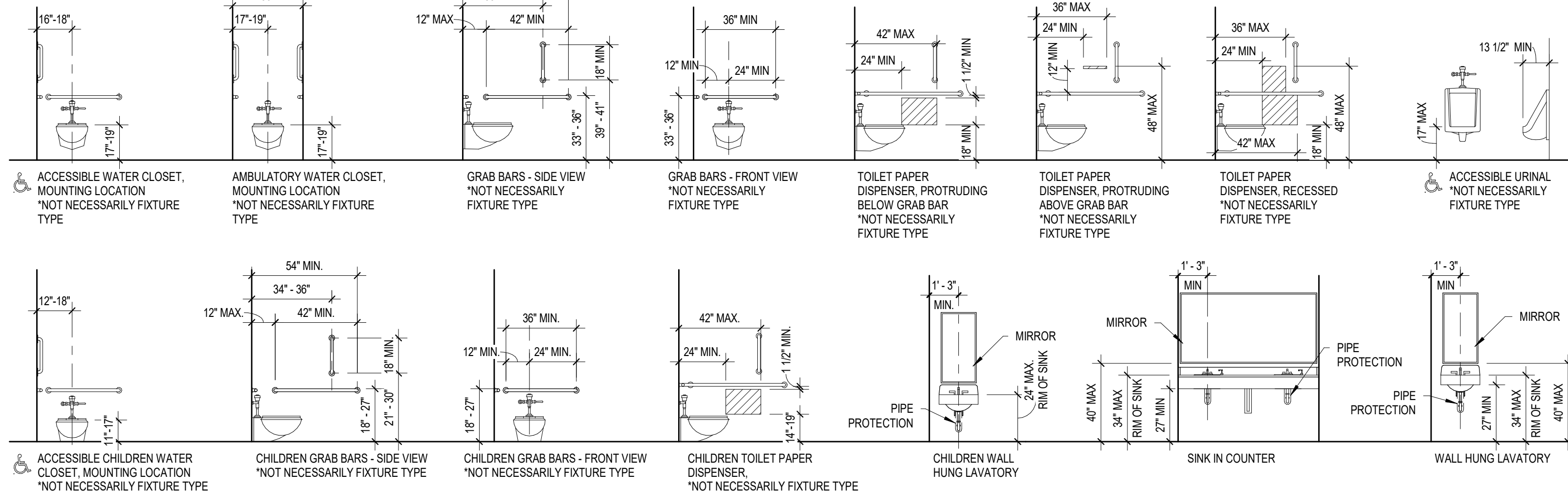


### WHEELCHAIR ACCESSIBLE COMPARTMENTS

- THE MINIMUM AREA OF A WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL BE 60 INCHES MINIMUM IN WIDTH MEASURED PERPENDICULAR TO THE SIDE WALL, AND 5 INCHES MINIMUM IN DEPTH FOR WALL HUNG WATER CLOSETS, AND 59 INCHES MINIMUM IN DEPTH FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.
- THE MINIMUM AREA OF A WHEELCHAIR ACCESSIBLE COMPARTMENT PRIMARILY FOR CHILDREN USE SHALL BE 60 INCHES MINIMUM IN WIDTH MEASURED PERPENDICULAR TO THE SIDE WALL, AND 59 INCHES MINIMUM IN DEPTH FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.
- TOILET COMPARTMENT DOOR, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH THE REQUIRED CLEARANCES EXCEPT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR CLEARANCE BETWEEN THE DOOR SIDE OF THE STALL AND ANY OBSTRUCTION SHALL BE 42 INCHES MINIMUM. THE DOOR SHALL BE SELF-CLOSING. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE REQUIRED MINIMUM AREA OF THE COMPARTMENT.

## 8 TOILET COMPARTMENTS

1/4" = 1'-0"



### KNEE AND TOE CLEARANCES

#### KNEE CLEARANCE

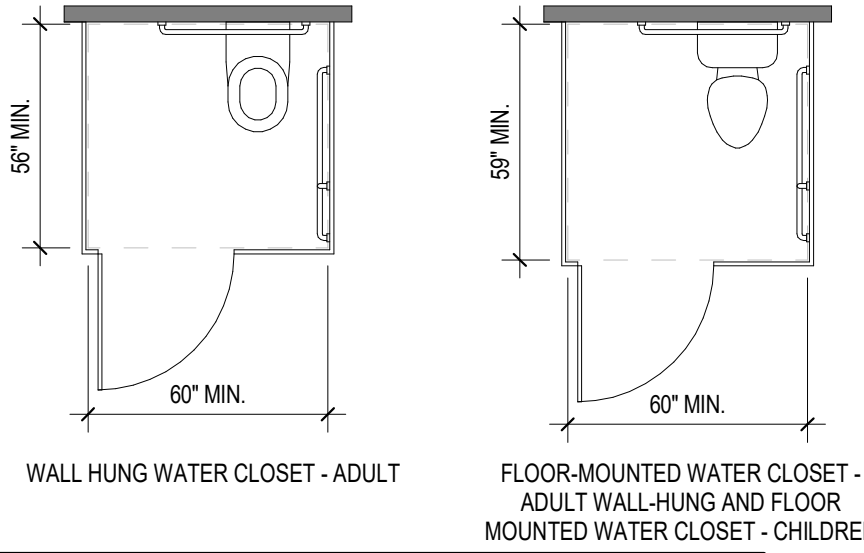
- SPACE BENEATH AN ELEMENT BETWEEN 9 INCHES AND 27 INCHES ABOVE FLOOR SHALL BE CONSIDERED KNEE CLEARANCE.
- KNEE CLEARANCE DEPTH SHALL BE PERMITTED TO EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT AT 9 INCHES ABOVE THE FLOOR.
- WHERE KNEE CLEARANCE IS REQUIRED BENEATH AN ELEMENT AS PART OF A CLEAR FLOOR SPACE COMPLYING WITH CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES MINIMUM IN DEPTH AT 9 INCHES ABOVE THE FLOOR, AND 8 INCHES MINIMUM IN DEPTH AT 27 INCHES ABOVE THE FLOOR.
- BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FLOOR, THE KNEE CLEARANCES SHALL BE PERMITTED TO BE REDUCED AT A RATE OF 1 INCH IN DEPTH FOR EACH 6 INCHES.
- KNEE CLEARANCE WIDTH SHALL BE 30 INCHES MINIMUM.

#### TOE CLEARANCE:

- SPACE BENEATH AN ELEMENT BETWEEN THE FLOOR AND 9 INCHES ABOVE THE FLOOR SHALL BE CONSIDERED TOE CLEARANCE.
- TOE CLEARANCE SHALL BE PERMITTED TO EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT.
- WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE COMPLYING WITH CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES MINIMUM BENEATH THE ELEMENT.
- SPACE EXTENDING GREATER THAN 6 INCHES BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES ABOVE THE FLOOR SHALL NOT BE CONSIDERED TOE CLEARANCE.
- TOE CLEARANCE WIDTH SHALL BE 30 INCHES MINIMUM.

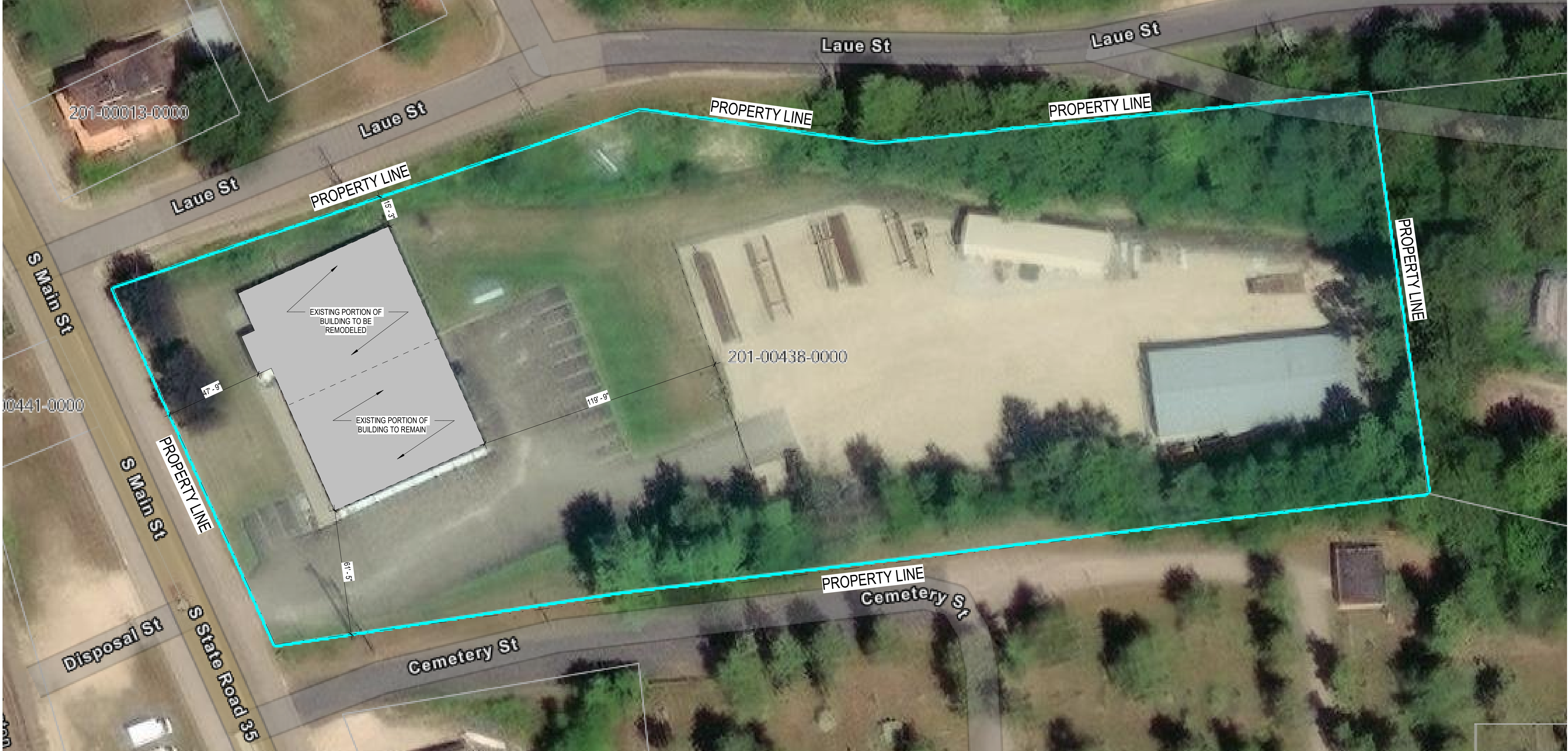
## 1 KNEE AND TOE CLEARANCE

1/4" = 1'-0"

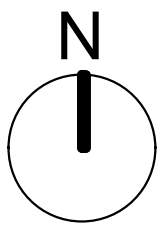


ALL INFORMATION  
ON THIS PAGE IN  
ACCORDANCE WITH  
ICC A117.1-2009





**1 SITE PLAN**  
1" = 30'-0"



REVISIONS:	
NO.	DATE

ISSUE DATE:  
DECEMBER 16, 2025

C201

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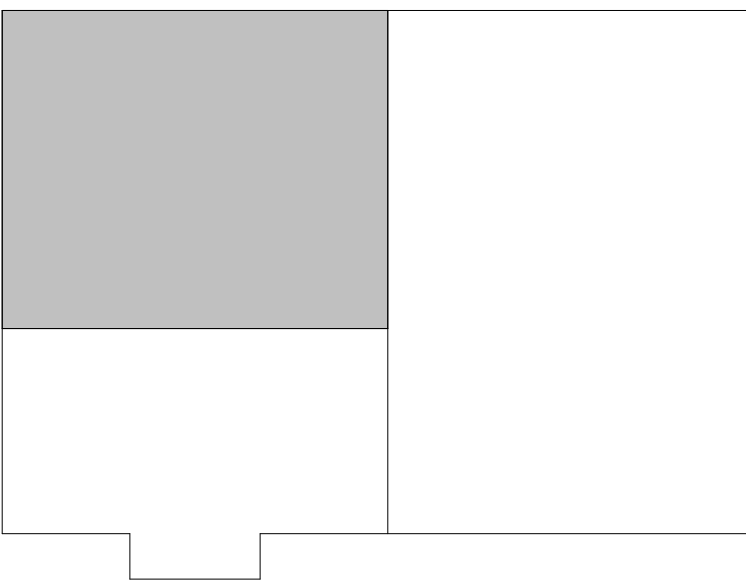
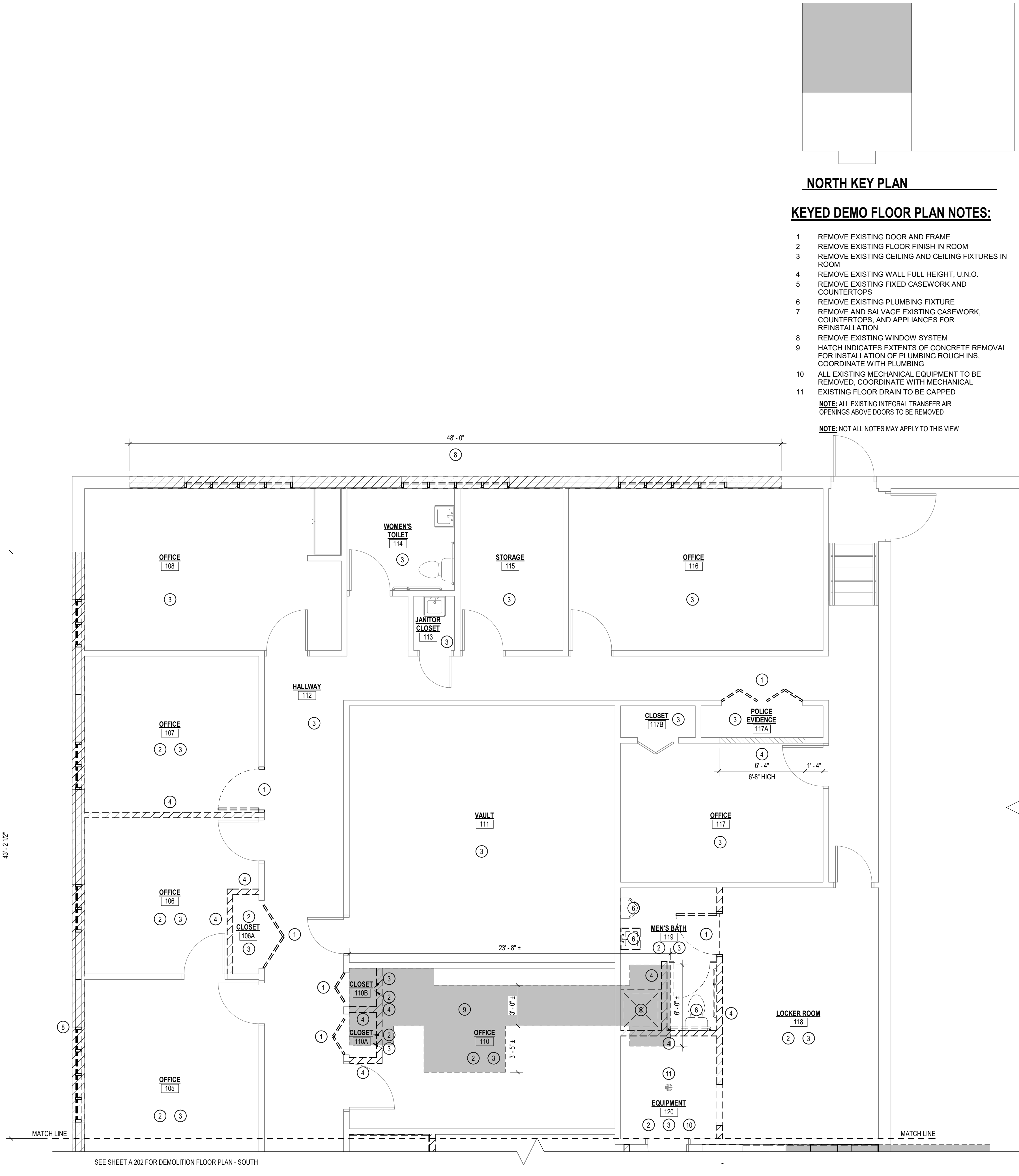
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1/9/2026 9:30:51 AM



NORTH KEY PLAN

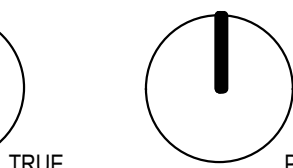
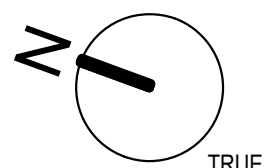
KEYED DEMO FLOOR PLAN NOTES:

- 1 REMOVE EXISTING DOOR AND FRAME
  - 2 REMOVE EXISTING FLOOR FINISH IN ROOM
  - 3 REMOVE EXISTING CEILING AND CEILING FIXTURES IN ROOM
  - 4 REMOVE EXISTING WALL FULL HEIGHT, U.N.O.
  - 5 REMOVE EXISTING FIXED CASEWORK AND COUNTERTOPS
  - 6 REMOVE EXISTING PLUMBING FIXTURE
  - 7 REMOVE AND SALVAGE EXISTING CASEWORK, COUNTERTOPS, AND APPLIANCES FOR REINSTALLATION
  - 8 REMOVE EXISTING WINDOW SYSTEM
  - 9 HATCH INDICATES EXTENTS OF CONCRETE REMOVAL FOR INSTALLATION OF PLUMBING ROUGH INS, COORDINATE WITH PLUMBING
  - 10 ALL EXISTING MECHANICAL EQUIPMENT TO BE REMOVED, COORDINATE WITH MECHANICAL
  - 11 EXISTING FLOOR DRAIN TO BE CAPPED
- NOTE:** ALL EXISTING INTEGRAL TRANSFER AIR OPENINGS ABOVE DOORS TO BE REMOVED

**NOTE:** NOT ALL NOTES MAY APPLY TO THIS VIEW

1 PHASE 1 NORTH - DEMOLITION FLOOR PLAN

1/4" = 1'-0"



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ALMA, WISCONSIN 54610

PHASE 1 NORTH -  
DEMOLITION FLOOR  
PLAN

REVISIONS:	
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ISSUE DATE:  
DECEMBER 16, 2025

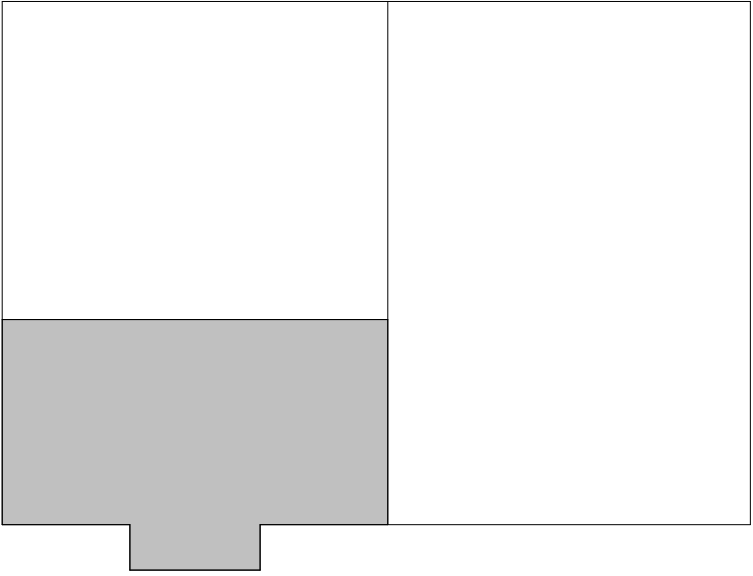
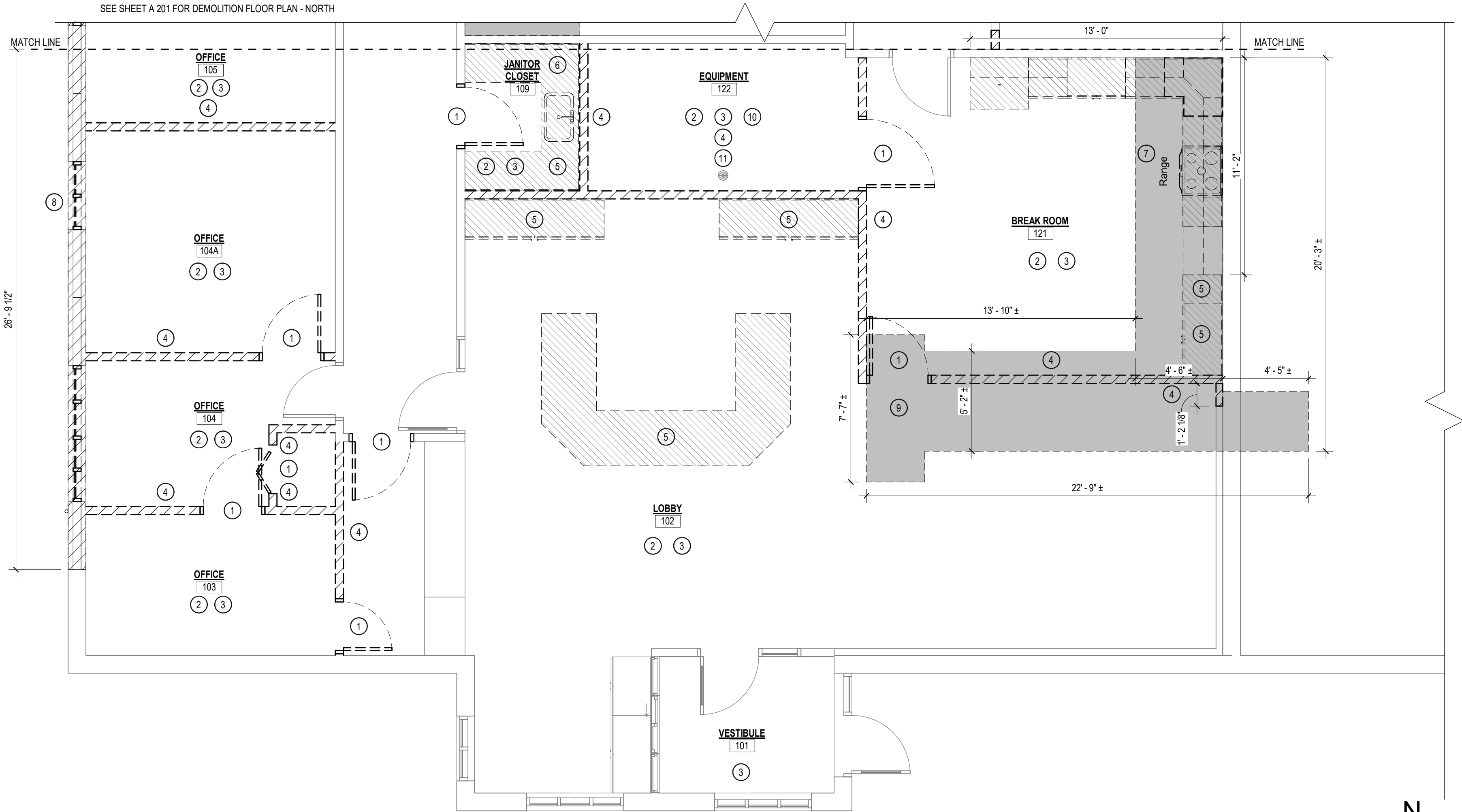
A201

L&P PROJECT # 25020



1 PHASE 1 SOUTH - DEMOLITION FLOOR PLAN

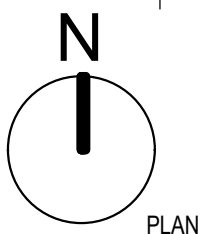
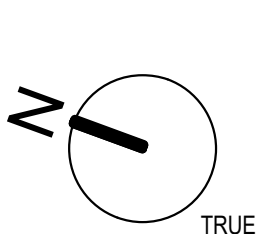
1/4" = 1'-0"



SOUTH KEY PLAN

KEYED DEMO FLOOR PLAN NOTES:

- 1 REMOVE EXISTING DOOR AND FRAME
  - 2 REMOVE EXISTING FLOOR FINISH IN ROOM
  - 3 REMOVE EXISTING CEILING AND CEILING FIXTURES IN ROOM
  - 4 REMOVE EXISTING WALL FULL HEIGHT, U.N.O.
  - 5 REMOVE EXISTING FIXED CASEWORK AND COUNTERTOPS
  - 6 REMOVE EXISTING PLUMBING FIXTURE
  - 7 REMOVE AND SALVAGE EXISTING CASEWORK, COUNTERTOPS, AND APPLIANCES FOR REINSTALLATION
  - 8 REMOVE EXISTING WINDOW SYSTEM
  - 9 HATCH INDICATES EXTENTS OF CONCRETE REMOVAL FOR INSTALLATION OF PLUMBING ROUGH INS, COORDINATE WITH PLUMBING
  - 10 ALL EXISTING MECHANICAL EQUIPMENT TO BE REMOVED, COORDINATE WITH MECHANICAL
  - 11 EXISTING FLOOR DRAIN TO BE CAPPED
- NOTE:** ALL EXISTING INTEGRAL TRANSFER AIR OPENINGS ABOVE DOORS TO BE REMOVED
- NOTE:** NOT ALL NOTES MAY APPLY TO THIS VIEW



PHASE 1 SOUTH -  
DEMOLITION FLOOR  
PLAN

REVISIONS:	
NO.	DATE
1	12/16/2025

ISSUE DATE:  
DECEMBER 16, 2025

A202

L&P PROJECT # 25020

RIVERLAND ENERGY COOPERATIVE  
ALMA CITY HALL REMODEL - PHASE 1  
1225 SOUTH MAIN STREET  
ALMA, WISCONSIN 54610

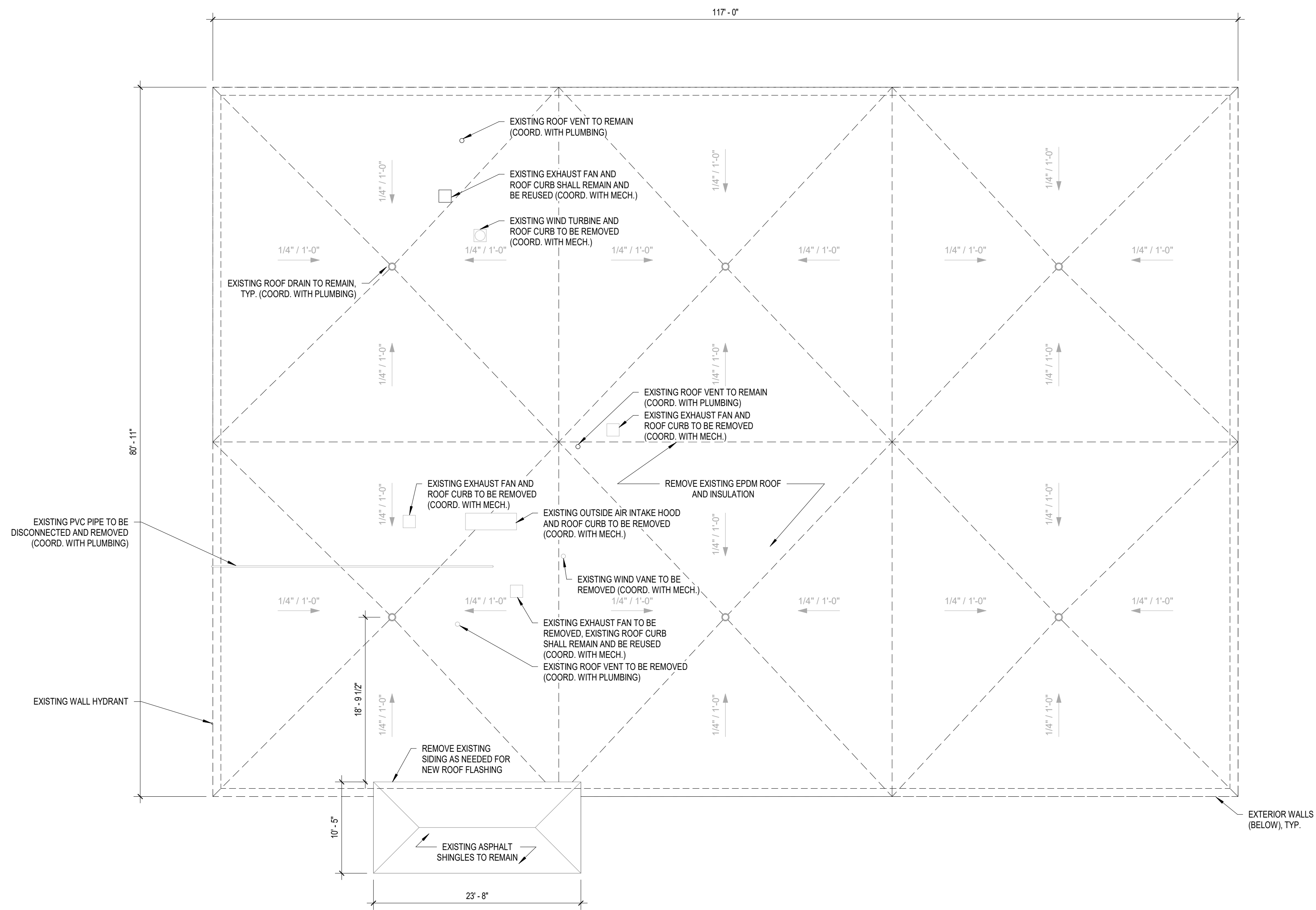
LIEN & PETERSON ARCHITECTS, INC

4675 ROYAL DRIVE  
EAU CLAIRE, WI  
TELEPHONE  
EMAIL

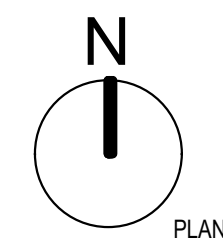
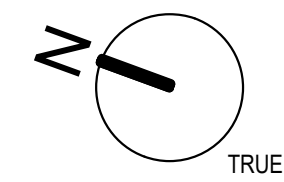
PO BOX 925  
54701  
715-835-7500  
admin@2dlp.com

ARCHITECTS  
L&P  
ENGINEERS

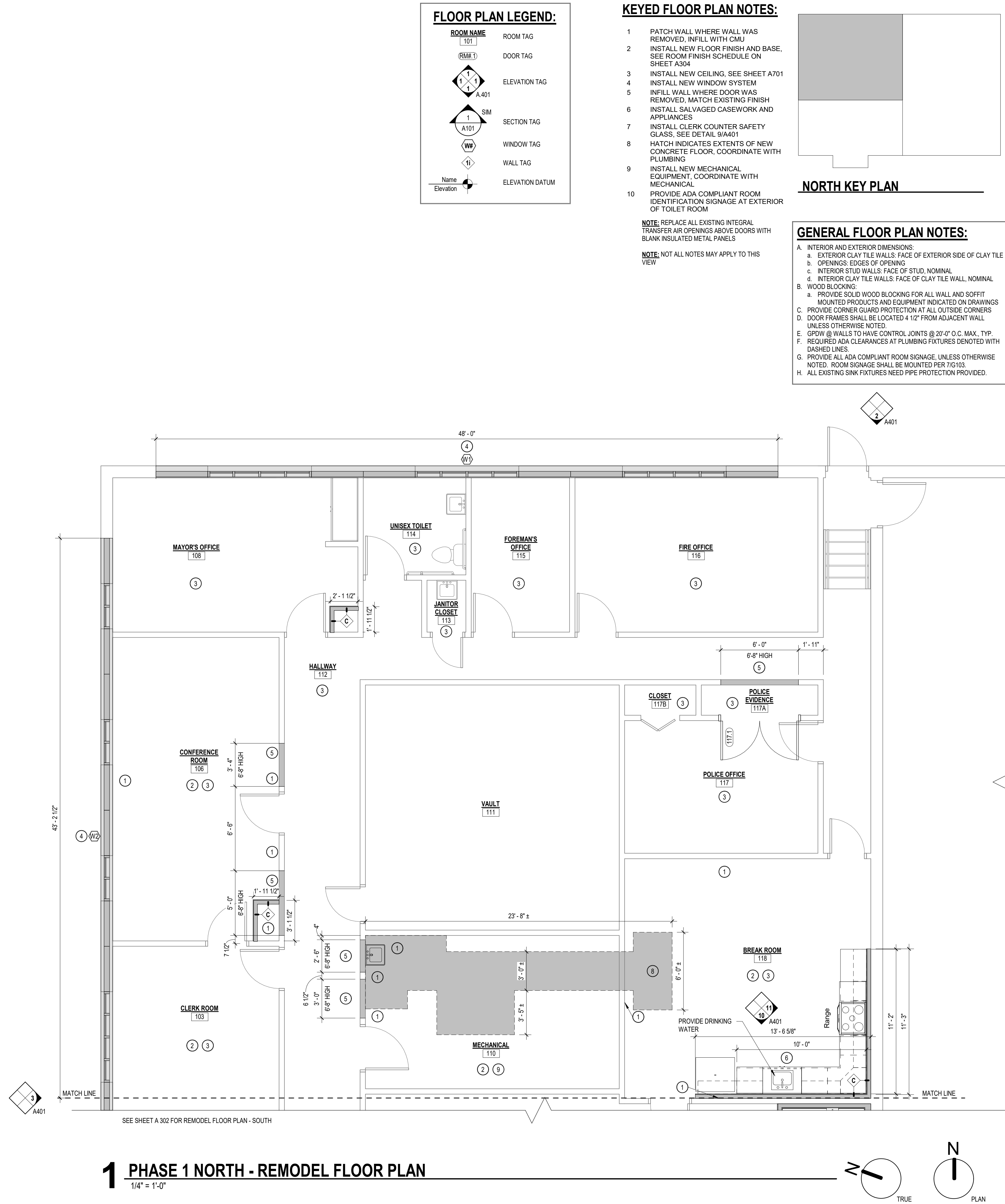




# 1 PHASE 1 - DEMOLITION ROOF PLAN





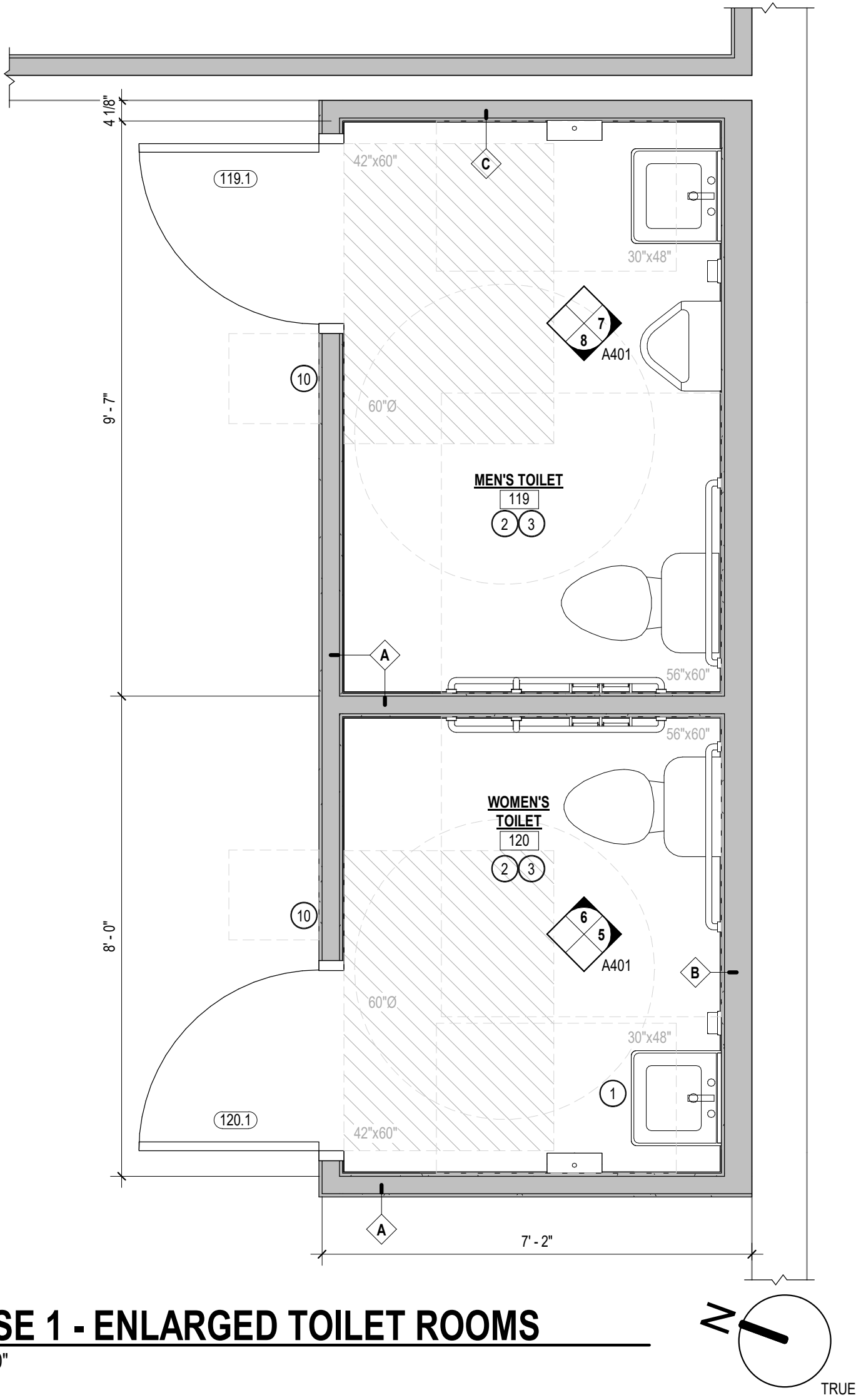




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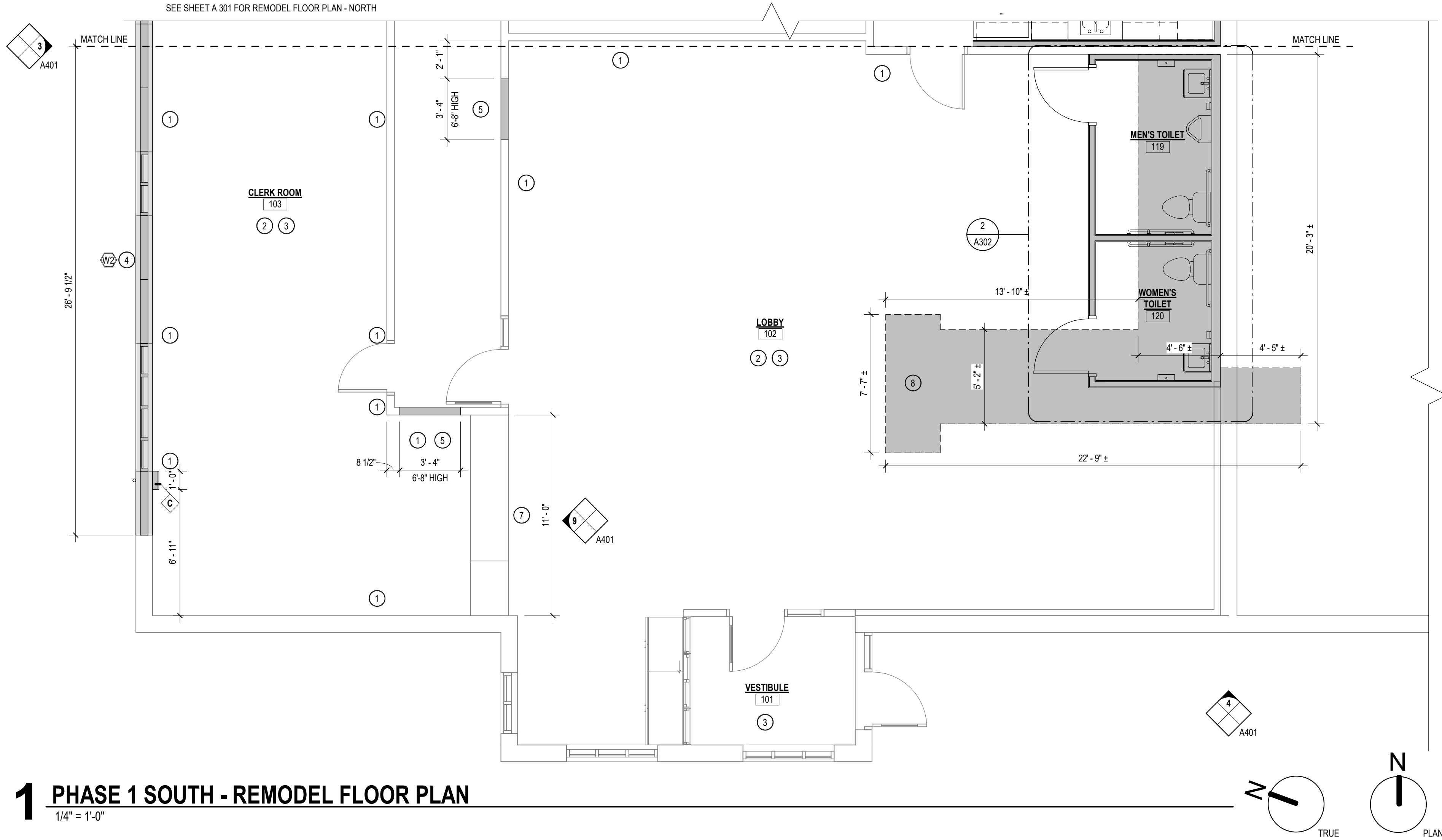
## 2 PHASE 1 - ENLARGED TOILET ROOMS

1/2" = 1'-0"



## 1 PHASE 1 SOUTH - REMODEL FLOOR PLAN

1/4" = 1'-0"



### FLOOR PLAN LEGEND:

ROOM NAME	ROOM TAG
101	ROOM TAG
(RME 1)	DOOR TAG
1 1 A 401	ELEVATION TAG
1 SM A 101	SECTION TAG
11	WINDOW TAG
11	WALL TAG
Name Elevation	ELEVATION DATUM

### KEYED FLOOR PLAN NOTES:

- 1 PATCH WALL WHERE WALL WAS REMOVED, INFILL WITH CMU
- 2 INSTALL NEW FLOOR FINISH AND BASE, SEE ROOM FINISH SCHEDULE ON SHEET A304
- 3 INSTALL NEW CEILING, SEE SHEET A701
- 4 INSTALL NEW WINDOW SYSTEM
- 5 INFILL WALL WHERE DOOR WAS REMOVED, MATCH EXISTING FINISH
- 6 INSTALL SALVAGED CASEWORK AND APPLIANCES
- 7 INSTALL CLERK COUNTER SAFETY GLASS, SEE DETAIL 9/A401
- 8 HATCH INDICATES EXTENTS OF NEW CONCRETE FLOOR, COORDINATE WITH PLUMBING
- 9 INSTALL NEW MECHANICAL EQUIPMENT, COORDINATE WITH MECHANICAL
- 10 PROVIDE ADA COMPLIANT ROOM IDENTIFICATION SIGNAGE AT EXTERIOR OF TOILET ROOM

**NOTE:** REPLACE ALL EXISTING INTEGRAL TRANSFER AIR OPENINGS ABOVE DOORS WITH BLANK INSULATED METAL PANELS

**NOTE:** NOT ALL NOTES MAY APPLY TO THIS VIEW

### SOUTH KEY PLAN

### GENERAL FLOOR PLAN NOTES:

- A. INTERIOR AND EXTERIOR DIMENSIONS:
- a. EXTERIOR CLAY TILE WALLS: FACE OF EXTERIOR SIDE OF CLAY TILE
  - b. OPENINGS: EDGES OF OPENING
  - c. INTERIOR STUD WALLS: FACE OF STUD, NOMINAL
  - d. INTERIOR CLAY TILE WALLS: FACE OF CLAY TILE WALL, NOMINAL
- B. WOOD BLOCKING:
- a. PROVIDE SOLID WOOD BLOCKING FOR ALL WALL AND SOFFIT MOUNTED PRODUCTS AND EQUIPMENT INDICATED ON DRAWINGS
- C. PROVIDE CORNER GUARD PROTECTION AT ALL OUTSIDE CORNERS
- D. DOOR FRAMES SHALL BE LOCATED 4 1/2" FROM ADJACENT WALL UNLESS OTHERWISE NOTED.
- E. GPWW @ WALLS TO HAVE CONTROL JOINTS @ 20'-0" O.C. MAX., TYP.
- F. REQUIRED ADA CLEARANCES AT PLUMBING FIXTURES DENOTED WITH DASHED LINES.
- G. PROVIDE ALL ADA COMPLIANT ROOM SIGNAGE, UNLESS OTHERWISE NOTED. ROOM SIGNAGE SHALL BE MOUNTED PER 7/G103.
- H. ALL EXISTING SINK FIXTURES NEED PIPE PROTECTION PROVIDED.

### PHASE 1 SOUTH - REMODEL FLOOR PLAN, ENLARGED PLAN

REVISIONS:  
NO. DATE  
1 12/16/2025

ISSUE DATE:  
DECEMBER 16, 2025

# A302

L&P PROJECT # 25020

RIVERLAND ENERGY COOPERATIVE  
ALMA CITY HALL REMODEL - PHASE 1  
1225 SOUTH MAIN STREET  
ALMA, WISCONSIN 54610

LIEN & PETERSON ARCHITECTS, INC

4675 ROYAL DRIVE  
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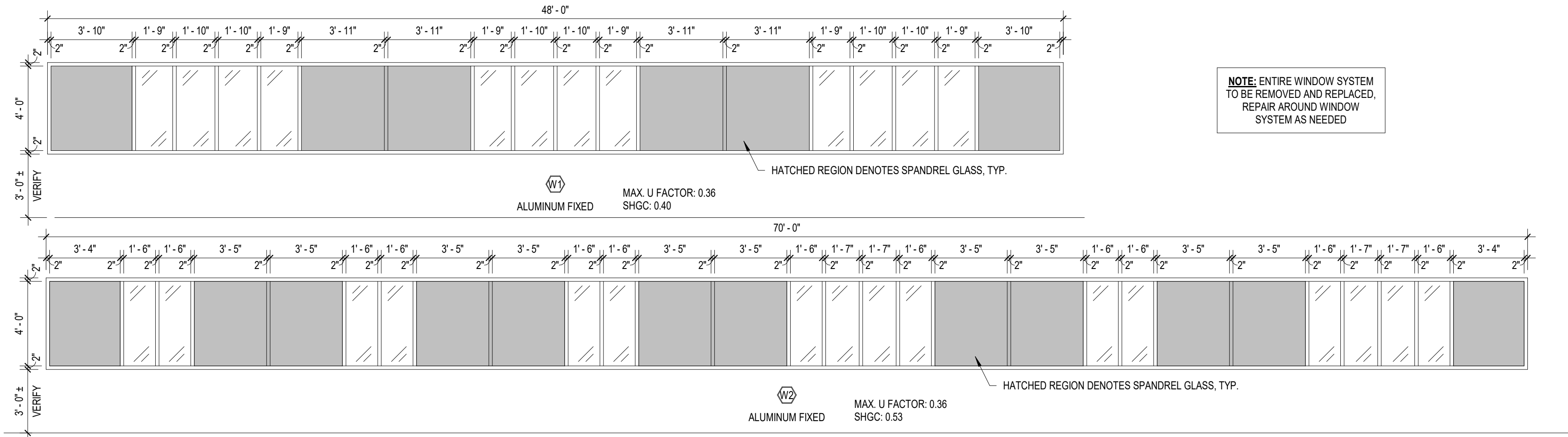
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admin@2dlp.com

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ENGINEERS









### 4 PHASE 1 - WINDOW TYPES

1/4" = 1'-0"

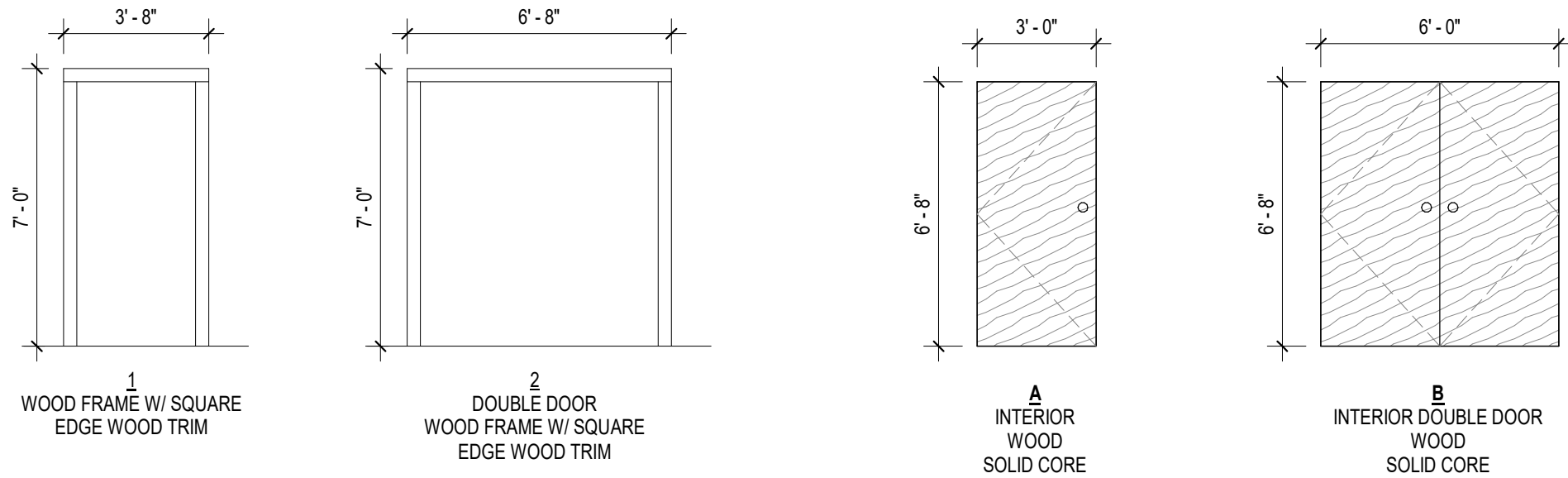
PHASE 1 - WINDOW SCHEDULE						
MARK	WIDTH	HEIGHT	SILL HEIGHT	DETAIL		
				HEAD	JAMB	SILL
W1	48'-0"	4'-4"	3'-0"	3/A501	2/A501	1/A501
W2	70'-0"	4'-4"	3'-0"	3/A501	2/A501	1/A501

PHASE 1 - DOOR SCHEDULE									
NO.	DOOR			FRAME			DOOR MANEUVERING CLEARANCES (SEE 2/G103)		HARDWARE
	TYPE	WIDTH	HEIGHT	THICKNESS	TYPE	HEAD	JAMB	PUSH	
117.1	B	6'-0"	6'-8"	0'-1 3/4"	2	5/A501	4/A501	-	GROUP 2
119.1	A	3'-0"	6'-8"	0'-1 3/4"	1	5/A501	4/A501	B,G	GROUP 1
120.1	A	3'-0"	6'-8"	0'-1 3/4"	1	5/A501	4/A501	B,G	GROUP 1

#### DOOR HARDWARE GROUPS:

**GROUP 1-INT. SGL. PRIVACY**  
1 PRIVACY LOCKSET  
3 BALL BEARING HINGES  
1 DOOR CLOSER  
1 WALL BUMPER

**GROUP 2-INT. DOUBLE. STOREROOM**  
2 LEVER HANDLE STOREROOM LOCKSET  
6 BALL BEARING HINGES  
PROVIDE CARD ACCESS



### 3 PHASE 1 - FRAME TYPES

1/4" = 1'-0"

### 2 PHASE 1 - DOOR TYPES

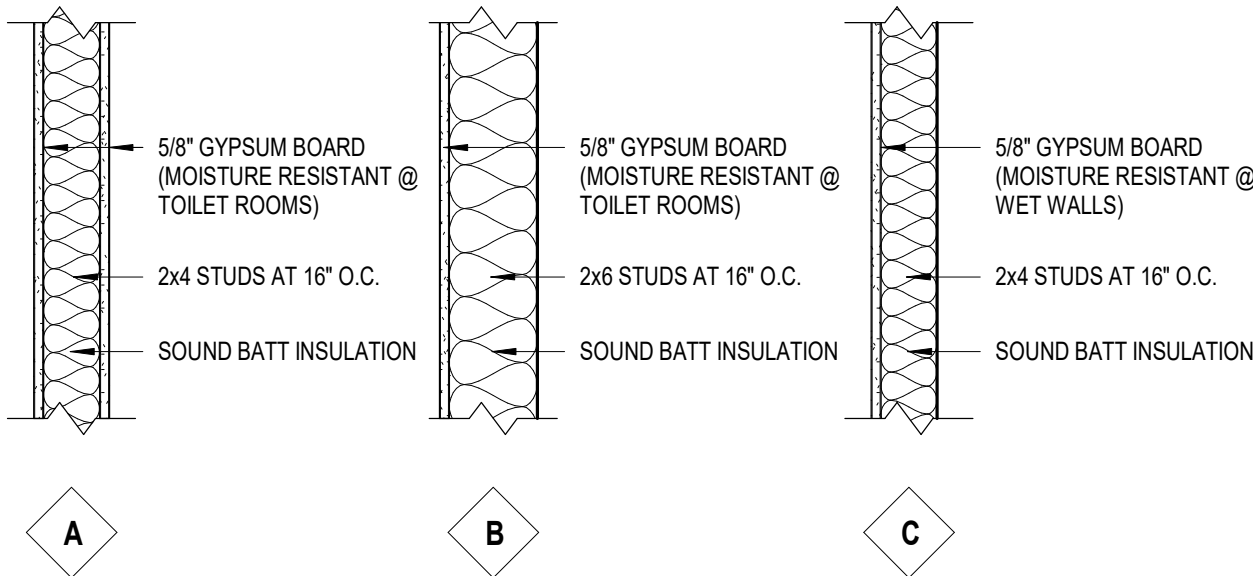
1/4" = 1'-0"

PHASE 1 - ROOM FINISH SCHEDULE									
NO.	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	
				NORTH	EAST	SOUTH	WEST		
101	VESTIBULE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	ACT-1	
102	LOBBY	CPT.	WOOD	GPDW / PNT	GPDW / PNT	GPDW / PNT	GPDW / PNT	ACT-1	
103	CLERK ROOM	CPT.	WOOD	GPDW / PNT	GPDW / PNT	GPDW / PNT	GPDW / PNT	ACT-1	
106	CONFERENCE ROOM	CPT.	WOOD	GPDW / PNT	GPDW / PNT	GPDW / PNT	GPDW / PNT	ACT-1	
108	MAYOR'S OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	ACT-1	
110	MECHANICAL	LVT	EXIST.	GPDW / PNT	GPDW / PNT	GPDW / PNT	GPDW / PNT	EXP. STR.	
111	VAULT	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXP. STR.	
112	HALLWAY	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	ACT-1	
113	JANITOR CLOSET	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	ACT-2	
114	UNISEX TOILET	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	ACT-2	
115	FOREMAN'S OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	ACT-1	
116	FIRE OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	ACT-1	
117	POLICE OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	ACT-1	
117A	POLICE EVIDENCE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	ACT-1	
117B	CLOSET	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	ACT-1	
118	BREAK ROOM	LVT	VINYL	GPDW / PNT	GPDW / PNT	GPDW / PNT	GPDW / PNT	ACT-2	
119	MEN'S TOILET	C.T.-1	C.T.-2	W.R. GPDW / PNT	W.R. GPDW / EPNT	W.R. GPDW / PNT	W.R. GPDW / PNT	ACT-2	
120	WOMEN'S TOILET	C.T.-1	C.T.-2	W.R. GPDW / PNT	W.R. GPDW / EPNT	W.R. GPDW / PNT	W.R. GPDW / PNT	ACT-2	
122	GARAGE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	

#### ROOM FINISH SCHEDULE

##### ABBREVIATIONS:

ACT-1 2x2 ACOUSTIC CEILING TILE WITH GRID W/ HOLD DOWN CLIPS  
ACT-2 2x2 VINYL WRAPPED ACOUSTIC CEILING TILE WITH GRID  
CPT. CARPET  
C.T.-1 CERAMIC FLOOR TILE  
C.T.-2 CERAMIC BASE TILE  
EPNT EPOXY PAINT  
EXP. STR. EXPOSED STRUCTURE  
GPDW 5/8" GYPSUM DRYWALL  
PNT PAINT  
LVT LUXURY VINYL FLOOR TILE  
VINYL 4" VINYL BASE  
WOOD 4" WOOD BASE TRIM  
W.R. GPDW 5/8" WATER RESISTANT GPDW



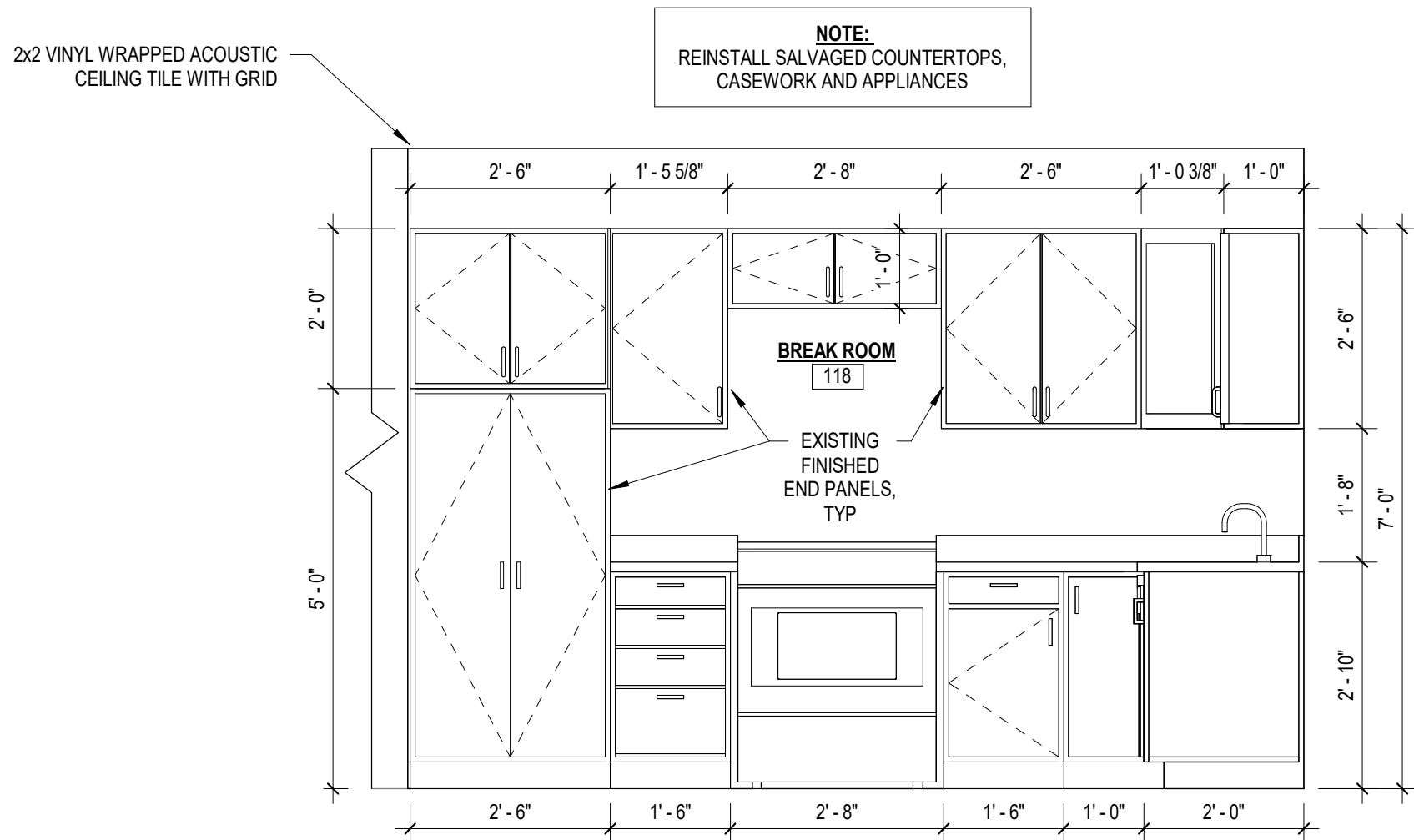
### 1 PHASE 1 - WALL TYPES

1" = 1'-0"

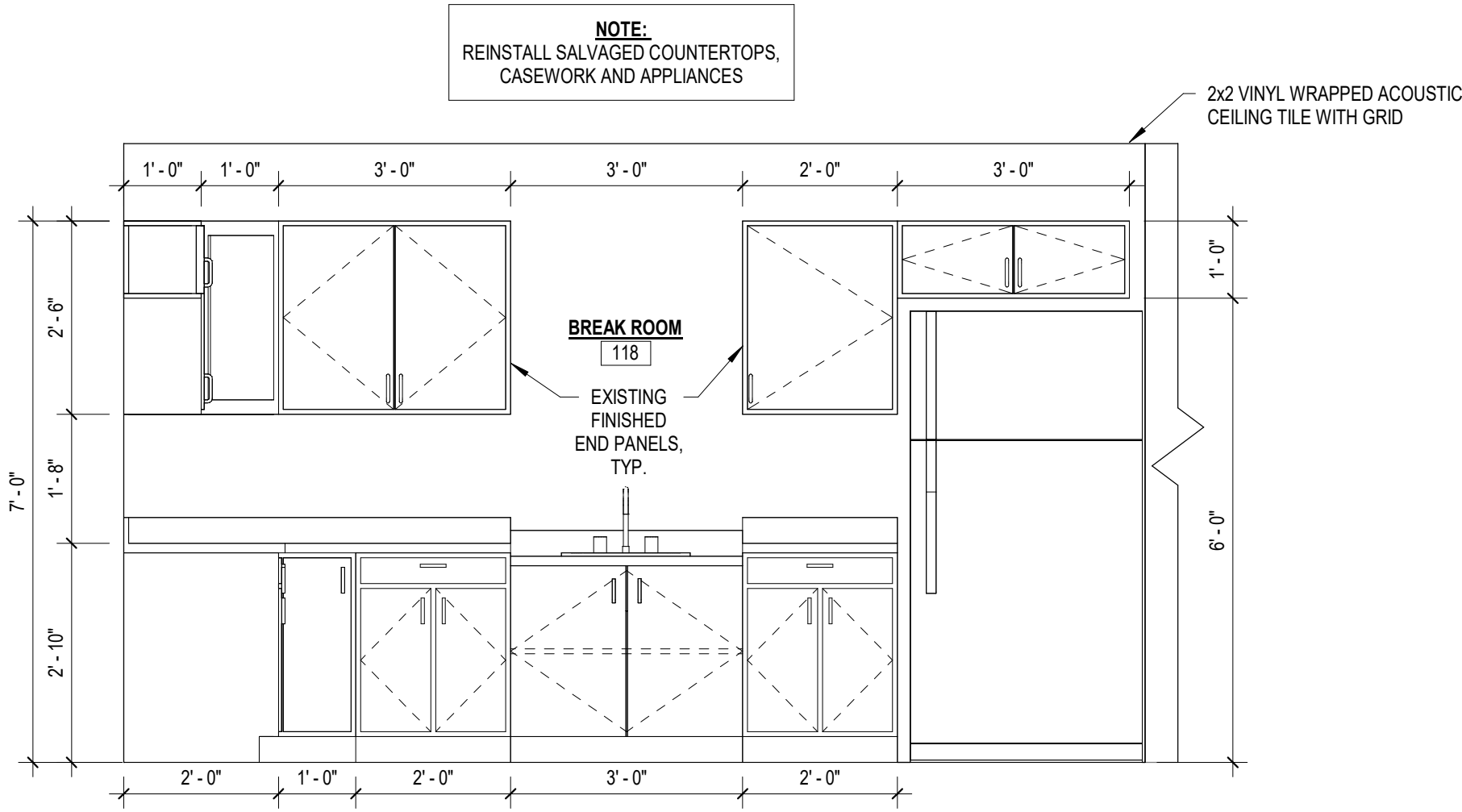


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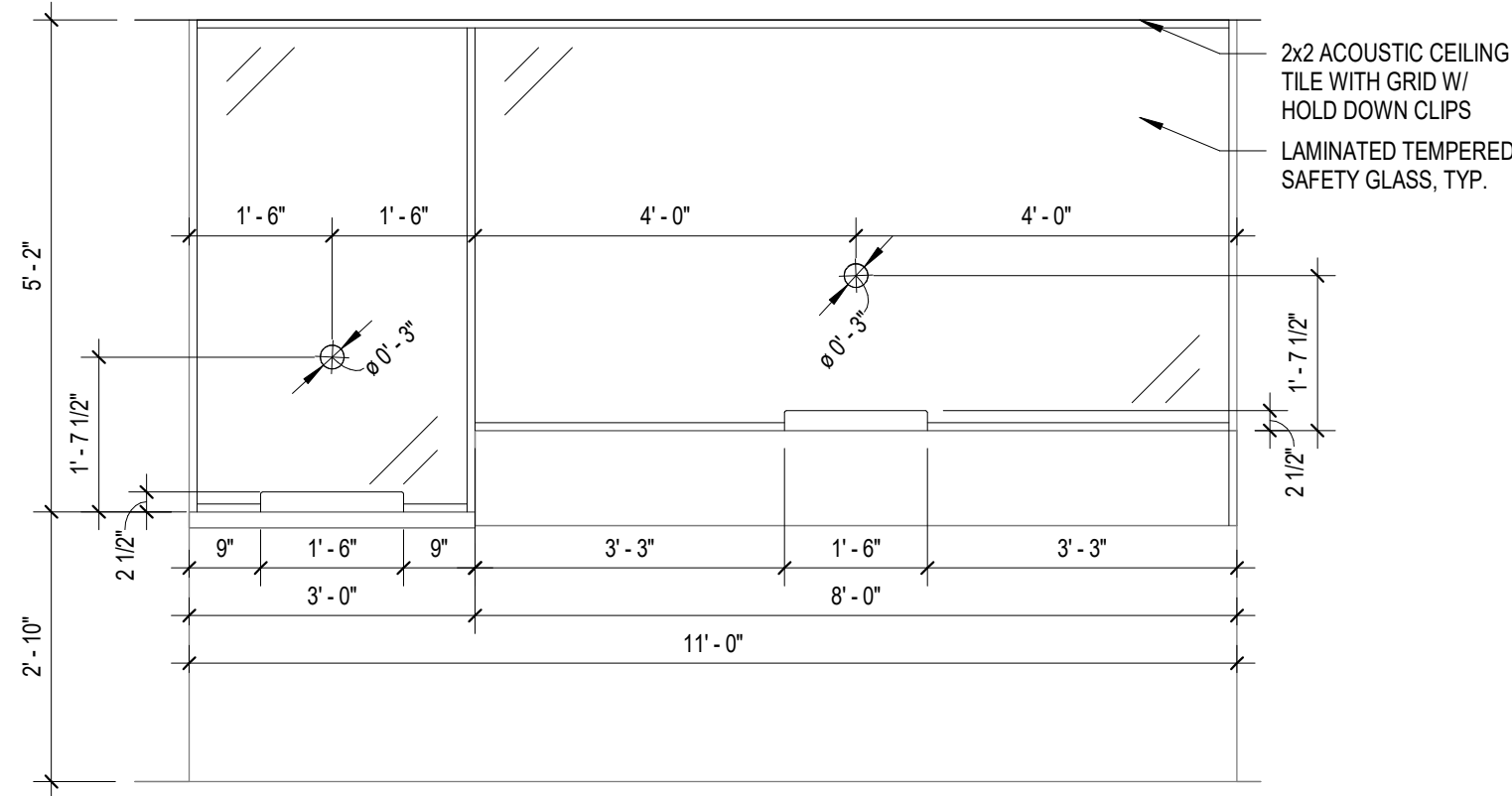
**GENERAL NOTE:**  
SEE SHEET G103 FOR ALL REQUIRED FIXTURE LOCATIONS,  
MOUNTING HEIGHTS, AND CLEAR FLOOR SPACE REQUIREMENTS.



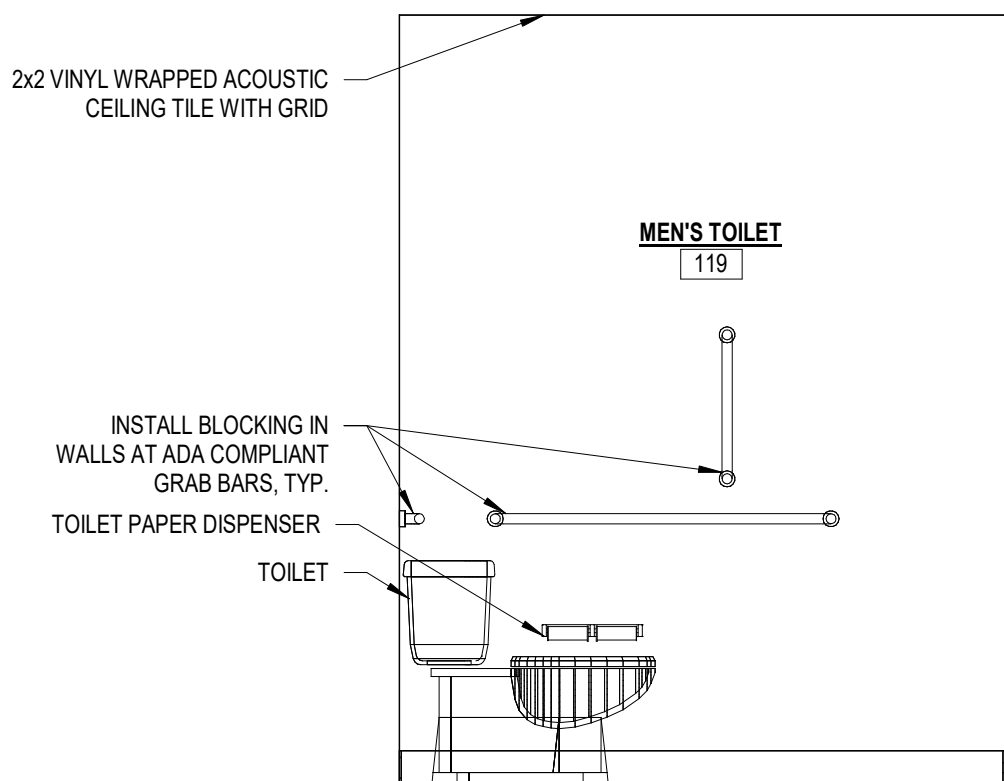
**11 PHASE 1 - BREAK ROOM 118 PLAN EAST**  
1/2" = 1'-0"



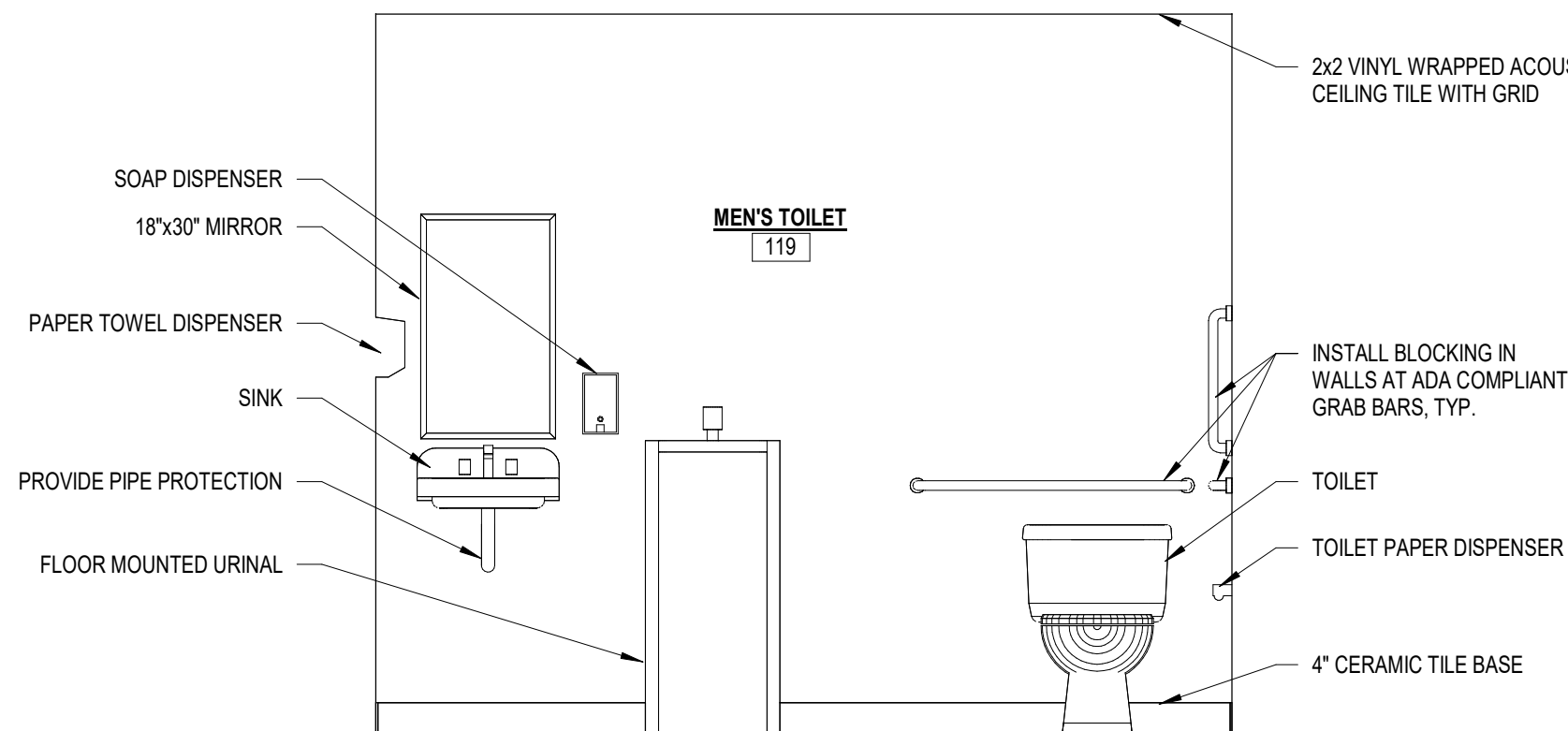
**10 PHASE 1 - BREAK ROOM 118 PLAN SOUTH**  
1/2" = 1'-0"



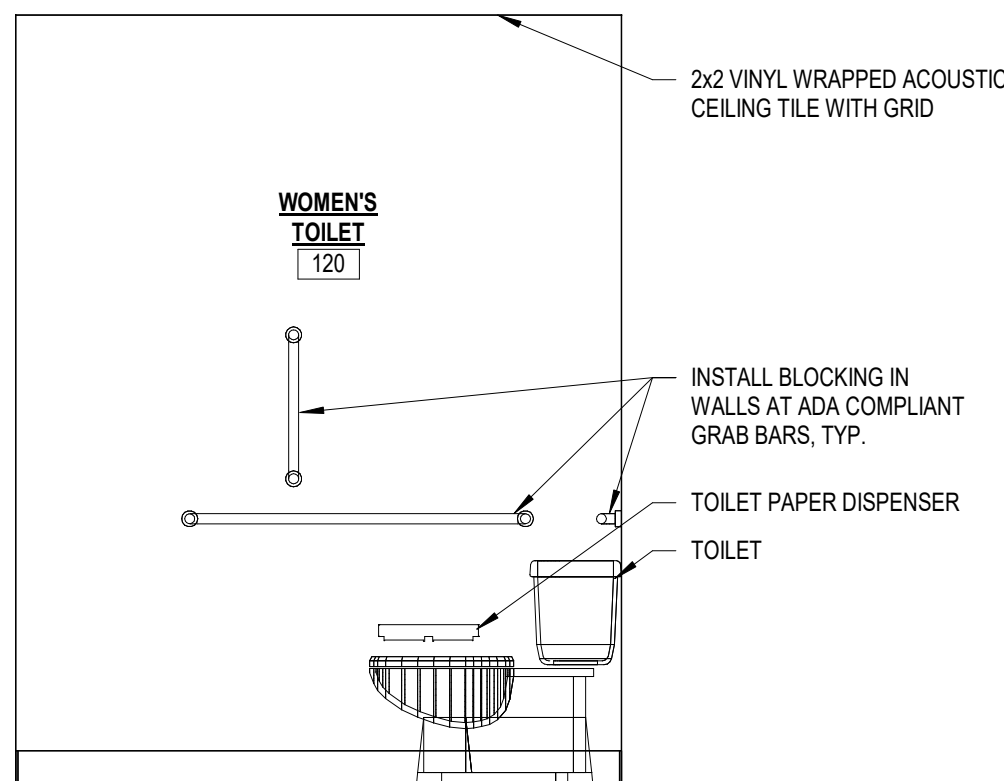
**9 PHASE 1 - CLERK COUNTER SAFETY GLASS PLAN WEST**  
1/2" = 1'-0"



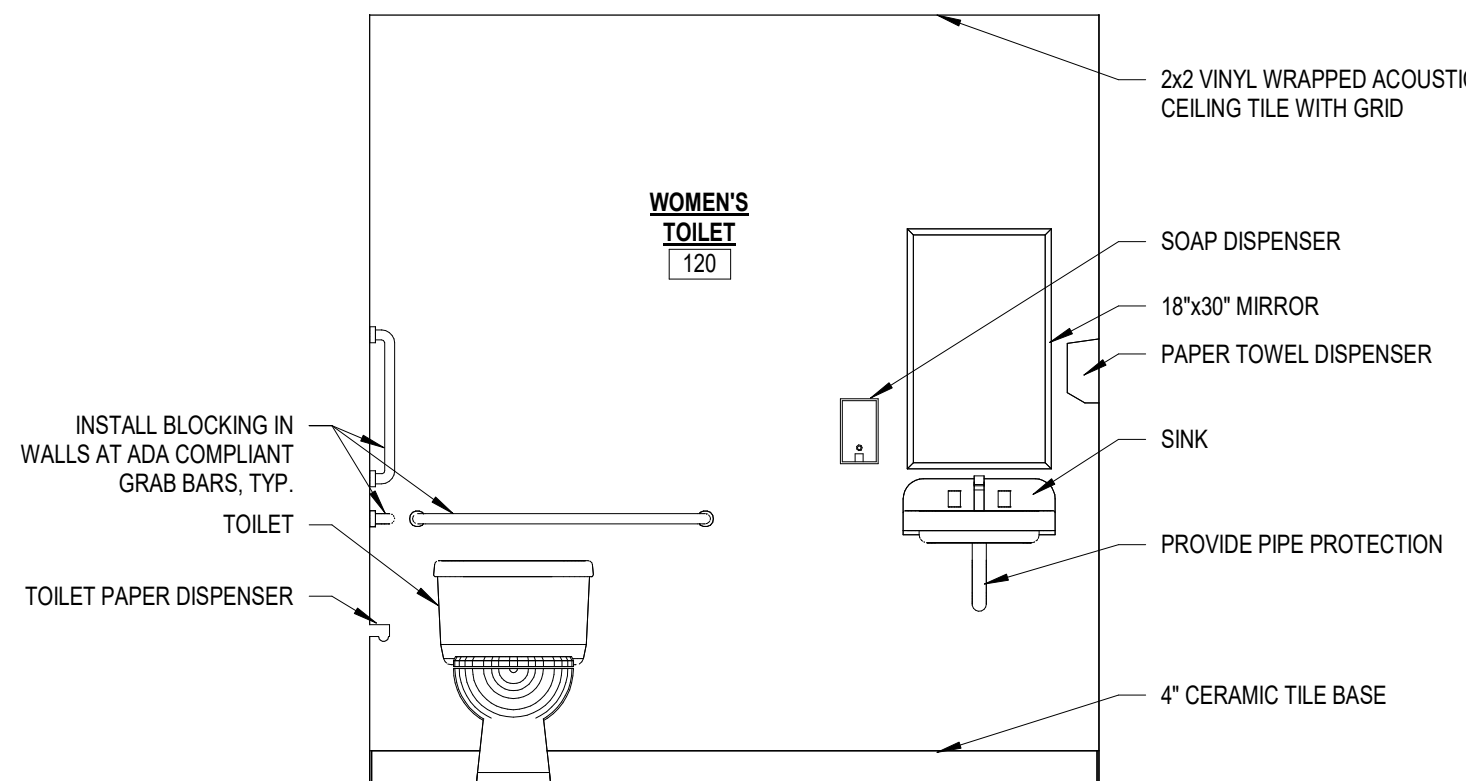
**8 PHASE 1 - MEN'S TOILET 119 PLAN SOUTH**  
1/2" = 1'-0"



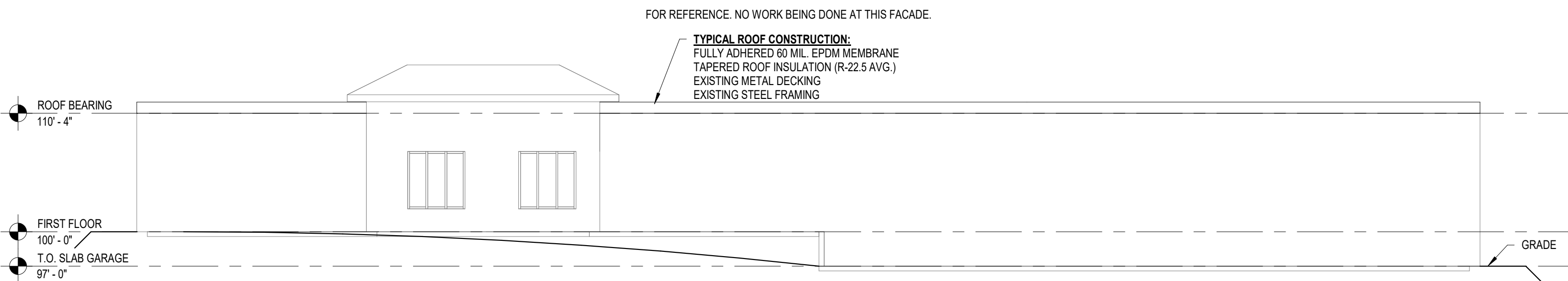
**7 PHASE 1 - MEN'S TOILET 119 PLAN EAST**  
1/2" = 1'-0"



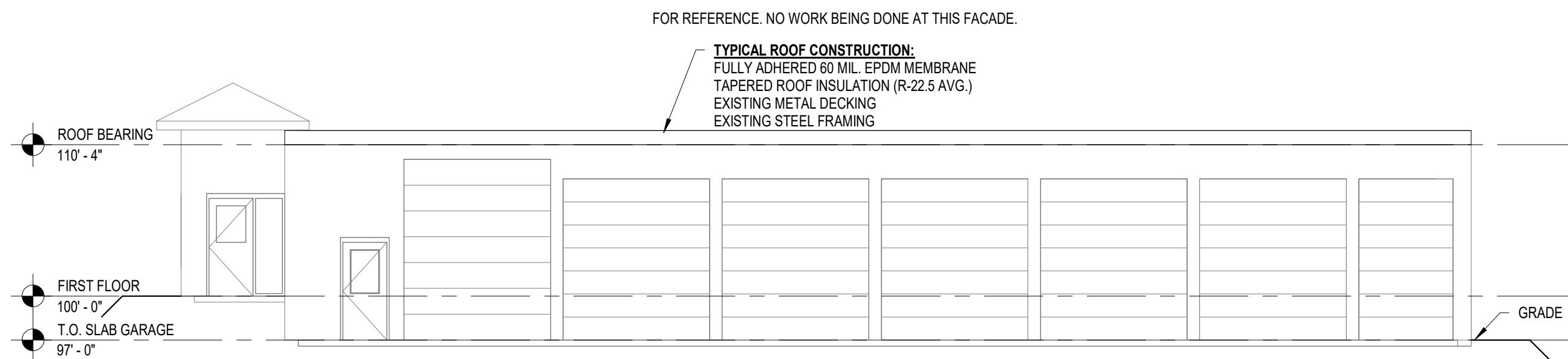
**6 PHASE 1 - WOMEN'S TOILET 120 PLAN NORTH**  
1/2" = 1'-0"



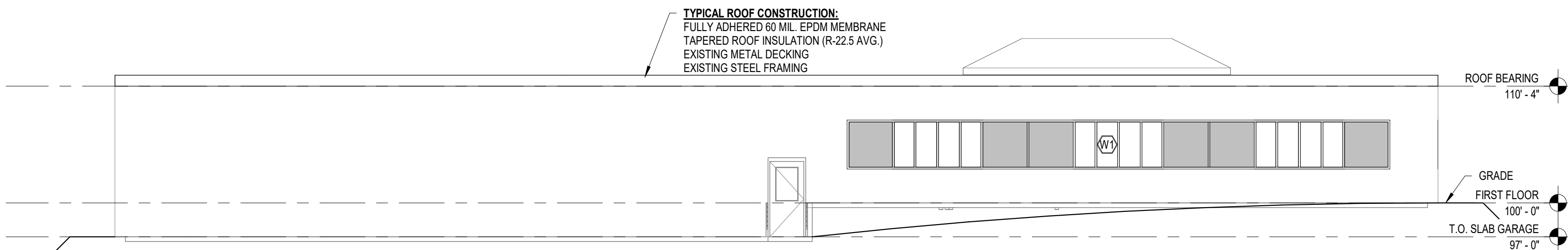
**5 PHASE 1 - WOMEN'S TOILET 120 PLAN EAST**  
1/2" = 1'-0"



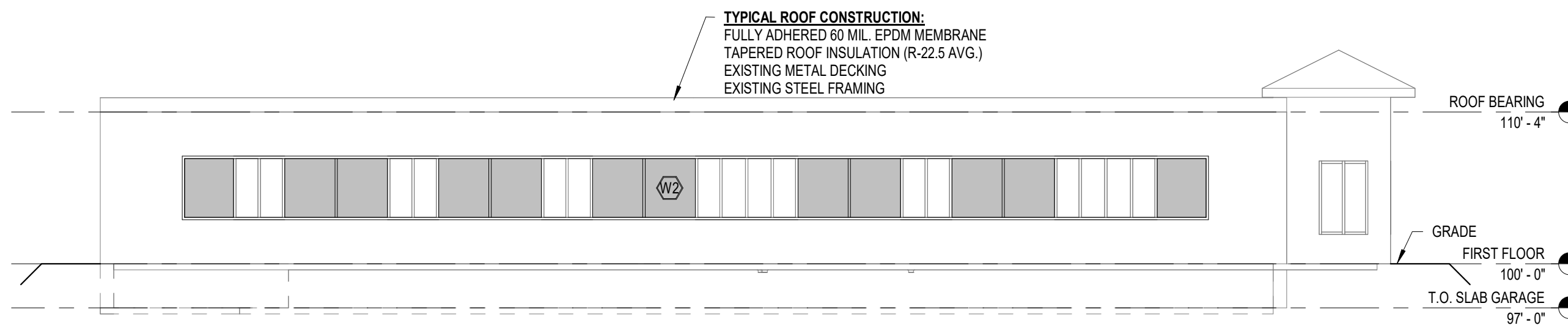
**4 PHASE 1 - PLAN SOUTH ELEVATION**  
1/8" = 1'-0"



**3 PHASE 1 - PLAN EAST ELEVATION**  
1/8" = 1'-0"



**2 PHASE 1 - PLAN NORTH ELEVATION**  
1/8" = 1'-0"



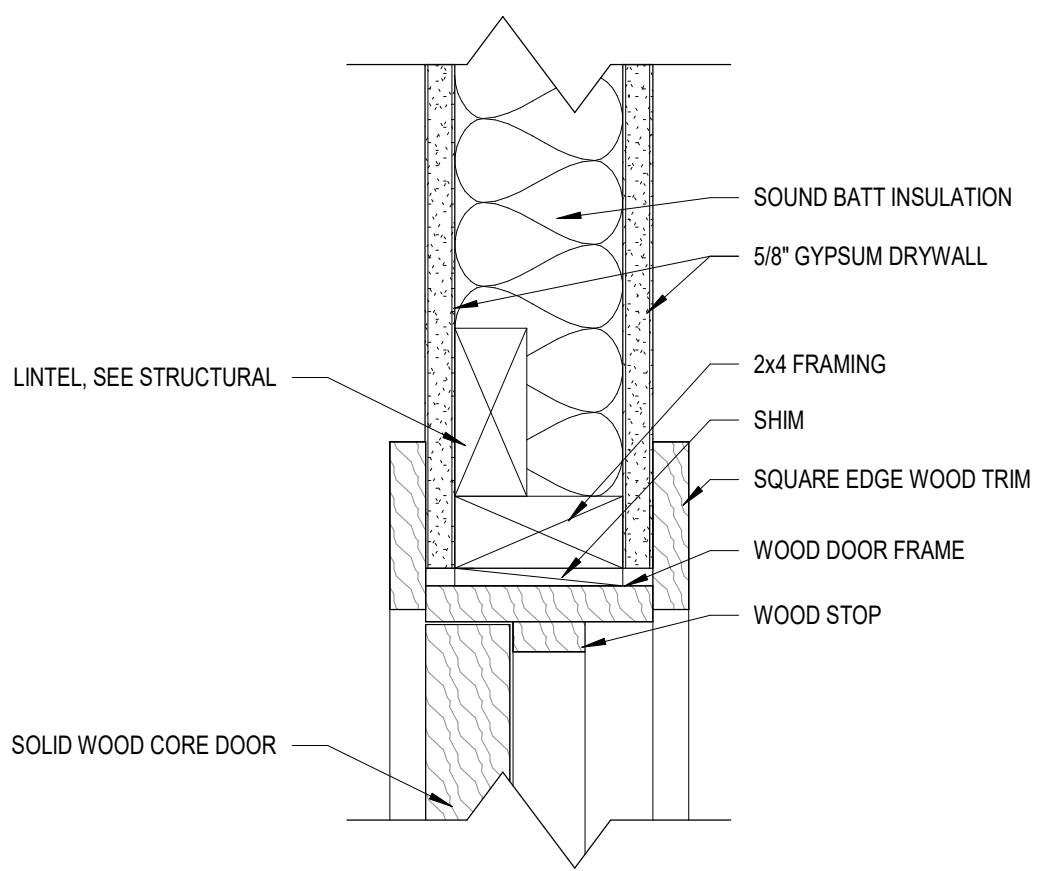
**1 PHASE 1 - PLAN WEST ELEVATION**  
1/8" = 1'-0"

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NO.	DATE

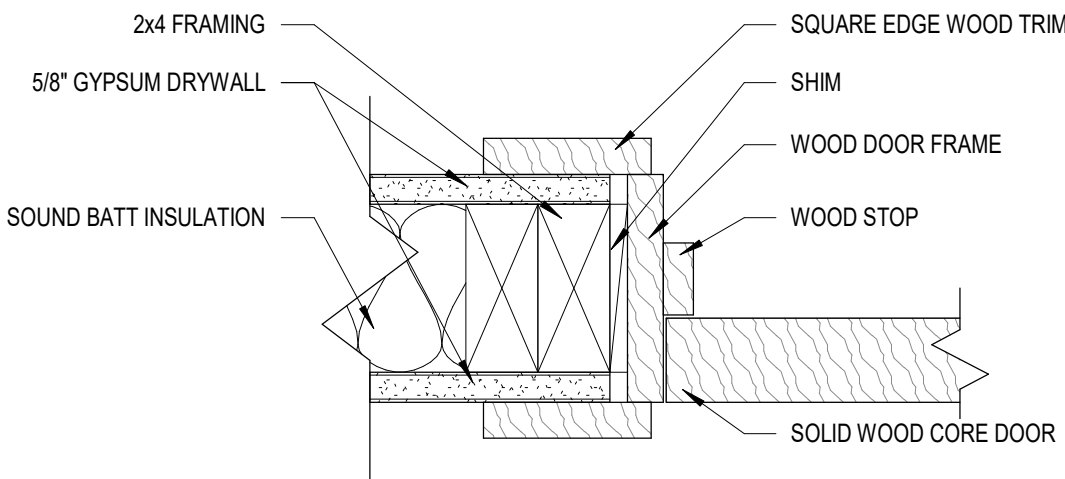
ISSUE DATE:  
DECEMBER 16, 2025

**A401**

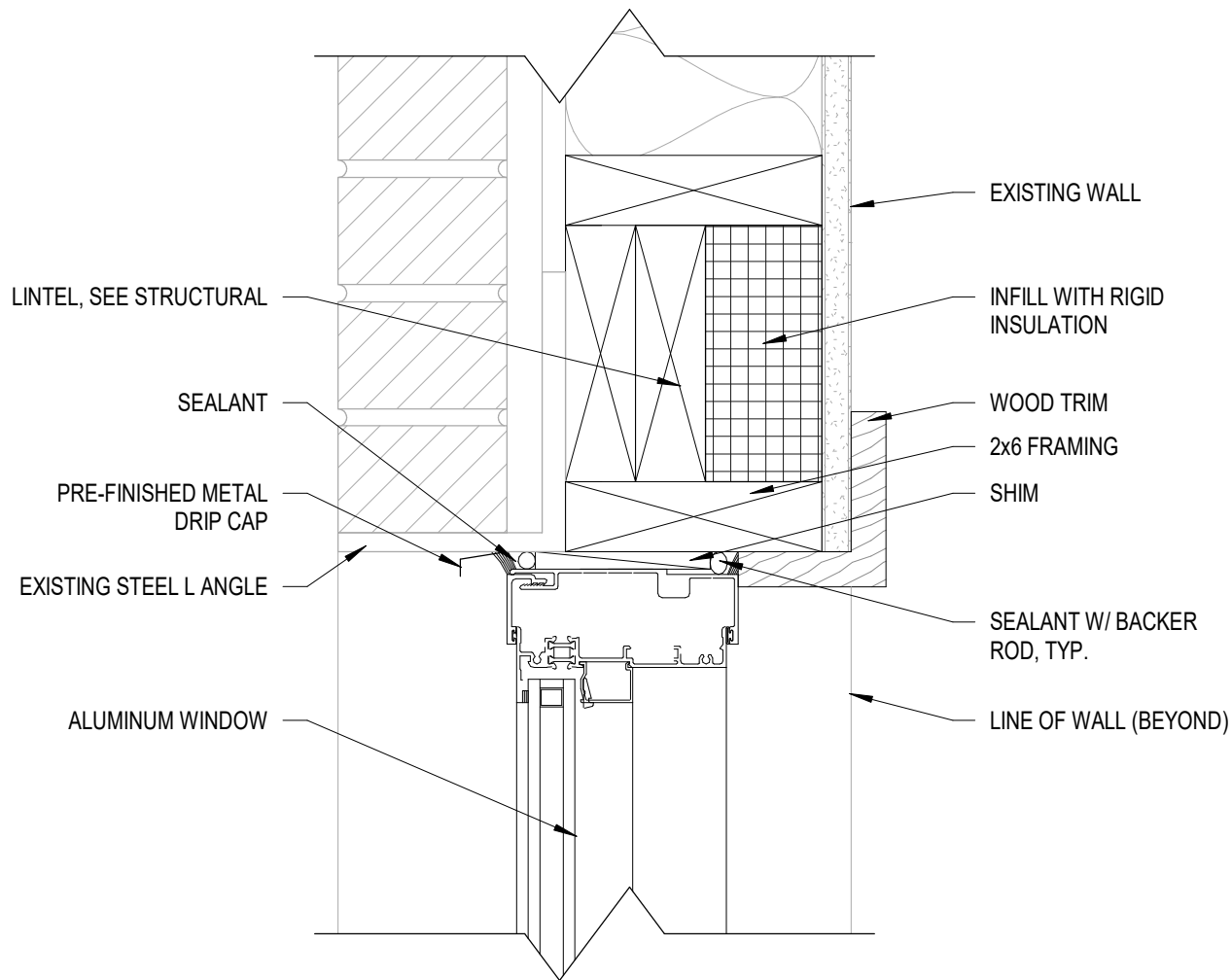




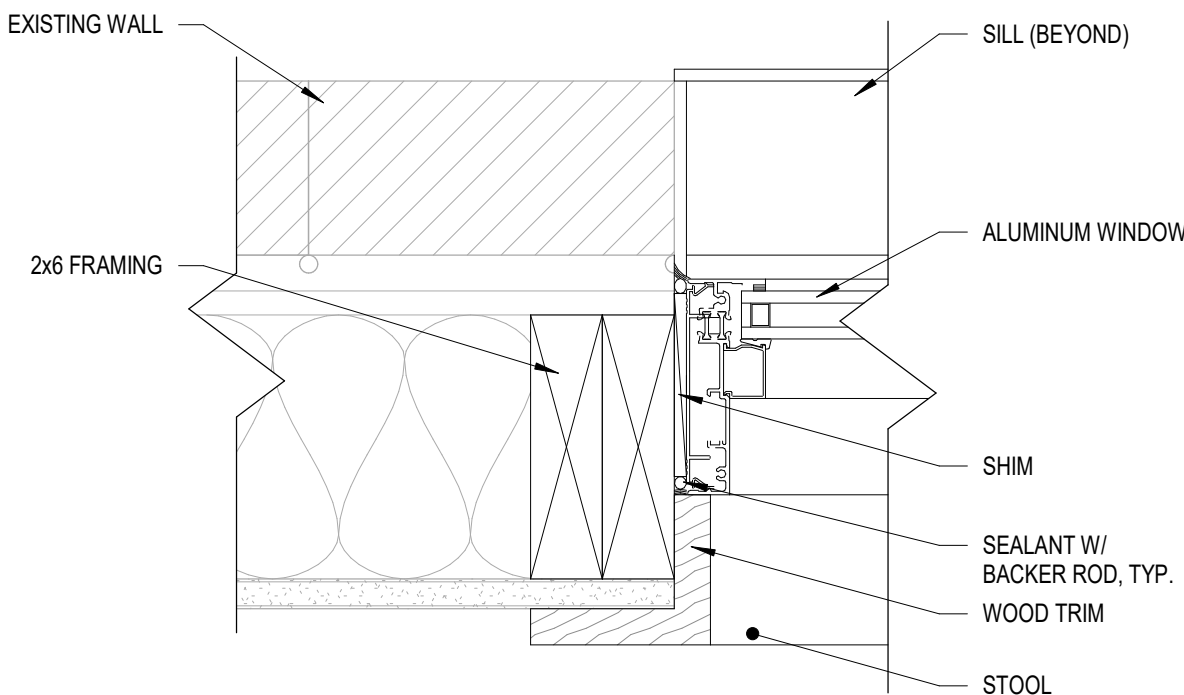
**5 INT. WOOD DOOR HEAD**  
3" = 1'-0"



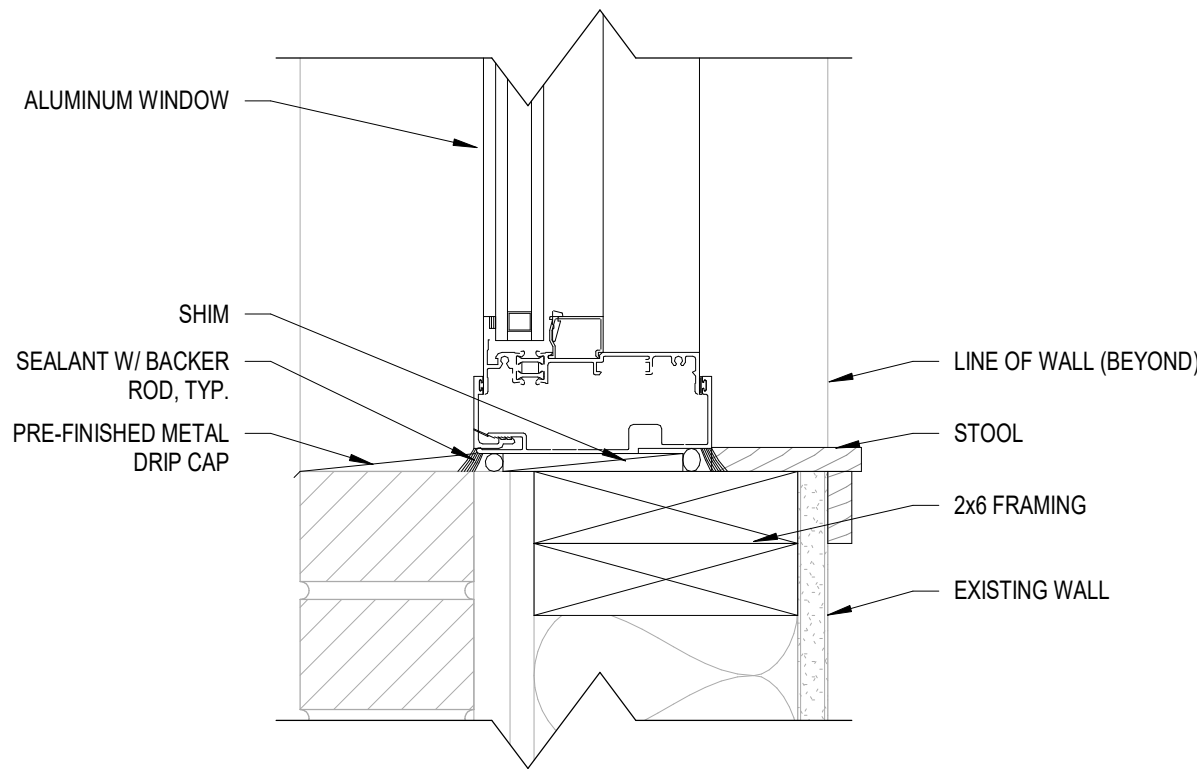
**4 INT. WOOD DOOR JAMB**  
3" = 1'-0"



**3 ALUM. WINDOW HEAD**  
3" = 1'-0"

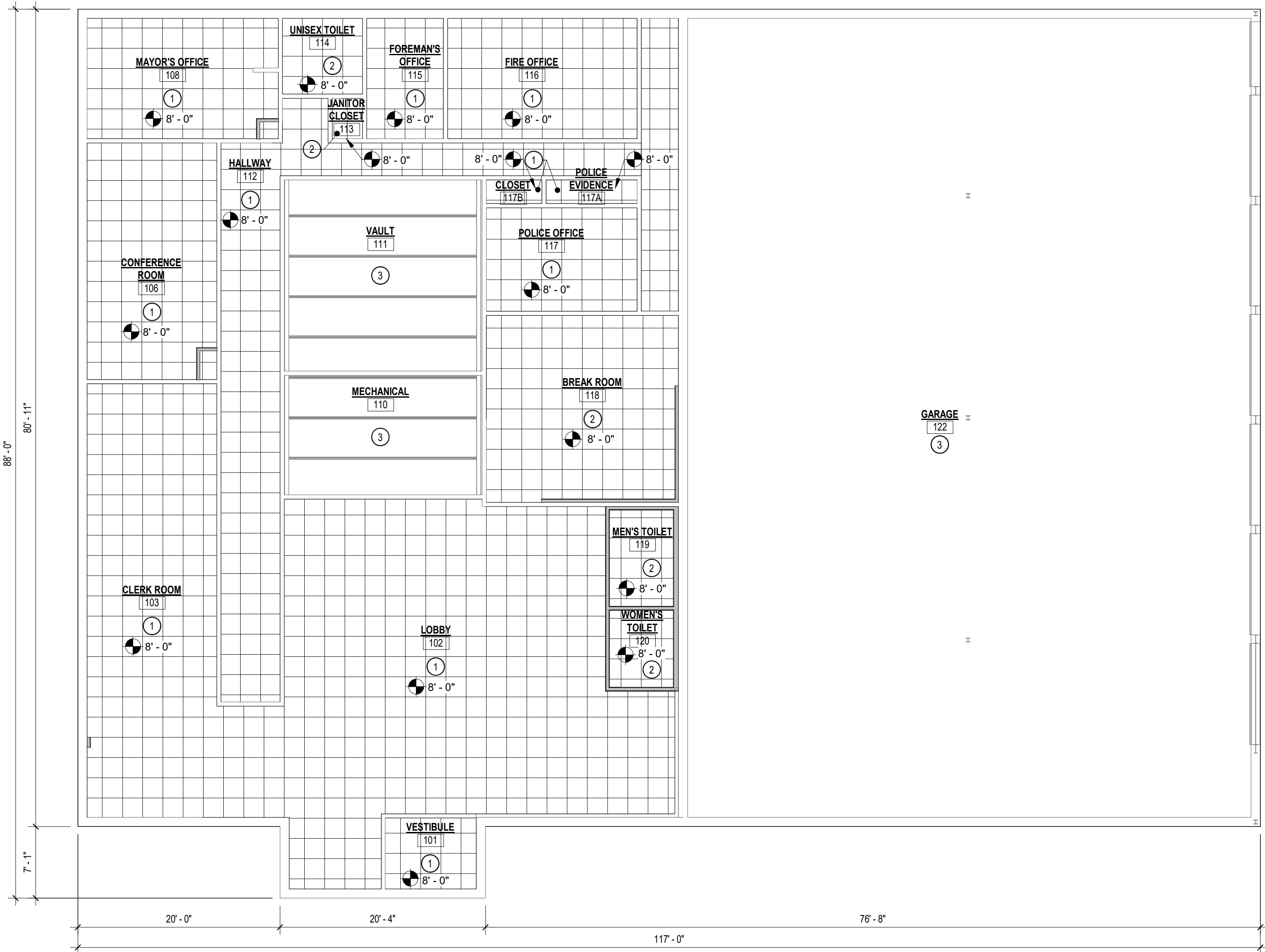


**2 ALUM. WINDOW JAMB**  
3" = 1'-0"



**1 ALUM. WINDOW SILL**  
3" = 1'-0"





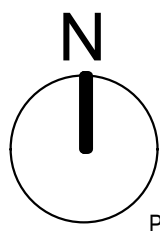
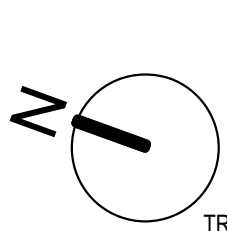
**GENERAL CEILING PLAN NOTES**

A. CEILING HEIGHTS ARE AS INDICATED.

**KEYED REFLECTED CEILING PLAN NOTES:**

- 1 2x2 ACOUSTIC CEILING TILE WITH GRID W/ HOLD DOWN CLIPS
- 2 2x2 VINYL WRAPPED ACOUSTIC CEILING TILE WITH GRID
- 3 EXPOSED STRUCTURE

**1 PHASE 1 - REFLECTED CEILING PLAN**  
1/8" = 1'-0"



REVISIONS:	
NO.	DATE

ISSUE DATE:  
DECEMBER 16, 2025

A701

L&P PROJECT # 25020

RIVERLAND ENERGY COOPERATIVE  
ALMA CITY HALL REMODEL - PHASE 1  
1225 SOUTH MAIN STREET  
ALMA, WISCONSIN 54610

LIEN & PETERSON ARCHITECTS, INC  
4675 ROYAL DRIVE  
EAU CLAIRE, WI  
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EMAIL

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54701  
715-835-7500  
admin@2dlp.com

ARCHITECTS  
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CIRCULATING PUMP SCHEDULE

UNIT NO.	ROOM NO.	SERVICE	TYPE	G.P.M.	HEAD	WATTS	ELECTRICAL CHARACTERISTICS	R.P.M.	REPR. MFGR. & MODEL NO.	REMARKS
DWCP-1	MECH. 110	DOMESTIC	INLINE BRONZE	0.5	4.0	VARIES	115/1	-	B & G E3-4V / BTXYZ	①

① FILE BALANCE REPORT WITH O & M MANUALS.

EXPANSION TANK SCHEDULE

UNIT NO.	ROOM NO.	TANK SIZE	DIA.	HEIGHT	SYSTEM CONN.	REPR. MFGR. & MODEL NO.	REMARKS
ET-1	MECH. 110	2.0 GALLON	10"	10"	3/4"	AMTROL THERM-X-TROL ST-12	

WATER CALCULATIONS

INFORMATION REQUIRED TO CALCULATE WATER SERVICE SIZE

1. DEMAND OF BUILDING IN GALLONS PER MINUTE.

WSFU's 42 = (GPM) 25

2. DIFFERENCE IN ELEVATION FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE. (FEET)

10

3. SIZE OF WATER METER (WHEN METER IS REQUIRED)

(INCHES) 1

4. DEVELOPED LENGTH FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE. (FEET)

100

5. LOW PRESSURE AT MAIN IN STREET

INTERNAL PRESSURE TANK X AFTER P.R.V. (PSI) 70

CALCULATE WATER SERVICE PRESSURE LOSS

6. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK. (VALUE OF # 5 ABOVE) (PSI)

70

7. DETERMINE PRESSURE LOSS DUE TO FRICTION IN 1 INCH DIAMETER WATER SERVICE. (WATER SERVICE PIPING MATERIAL IS TYPE X COPPER)

SUBTRACT VALUE OF "7" 17.5  
SUBTOTAL 52.5

8. DETERMINE PRESSURE LOSS DUE TO ELEVATION. (MULTIPLY THE VALUE OF # 2 ABOVE BY .434)

SUBTRACT VALUE OF "8" 4.3

9. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE. (ENTER IN "8" BELOW)

SUBTOTAL 48.2

CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "9")

B. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE. (FROM "9" ABOVE)

VALUE OF "9" 48.2

C. PRESSURE LOSS OF WATER METER (WHEN METER IS REQUIRED)

SUBTRACT VALUE OF "C" 10  
SUBTOTAL 38.2

D. PRESSURE AT CONTROLLING FIXTURE. (CONTROLLING FIXTURE IS WC-2)

SUBTRACT VALUE OF "D" 25  
SUBTOTAL 13.2

E. DIFFERENCE IN ELEVATION BETWEEN THE BUILDING CONTROL VALVE AND THE CONTROLLING FIXTURE IN FEET - x .434 PSI/FT. -

SUBTRACT VALUE OF "E" -  
SUBTOTAL 13.2

F. PRESSURE LOSS DUE TO WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTS WHICH SERVE THE CONTROLLING FIXTURE. (PRESSURE LOSS DUE TO -)

SUBTRACT VALUE OF "F" -  
SUBTOTAL 13.2

G. DEVELOPED LENGTH FROM BUILDING CONTROL VALVE TO CONTROLLING FIXTURE IN FEET 65 x 1.5

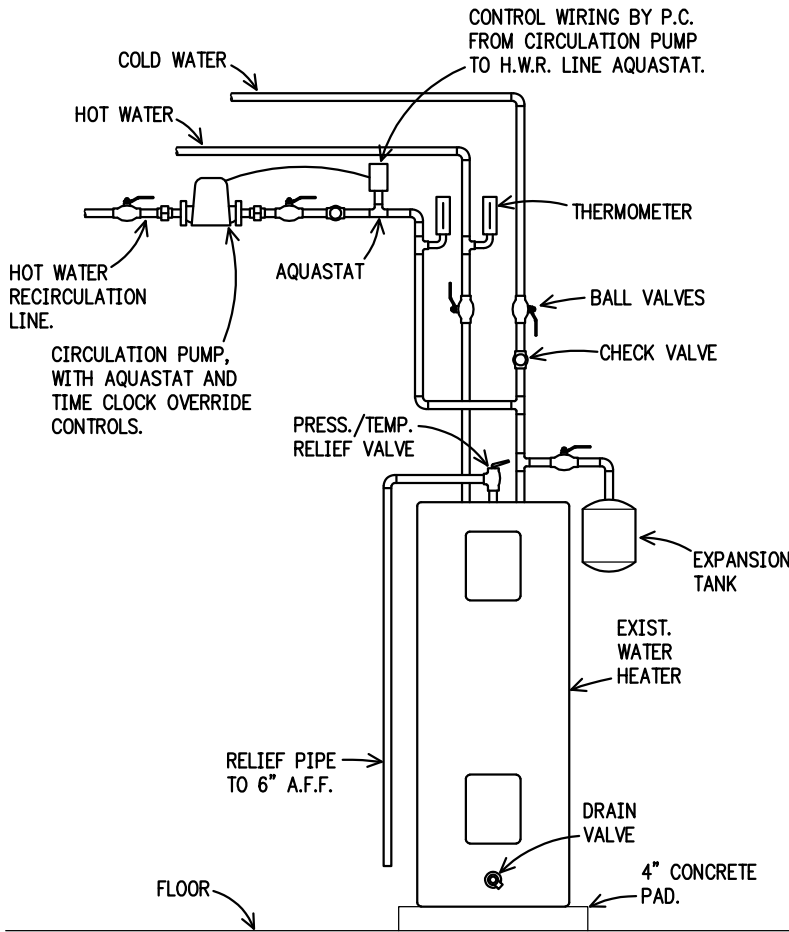
DIVIDE BY VALUE OF "G" 97.5  
SUBTOTAL 0.135

(WATER DISTRIBUTION PIPING MATERIAL IS L COPPER)

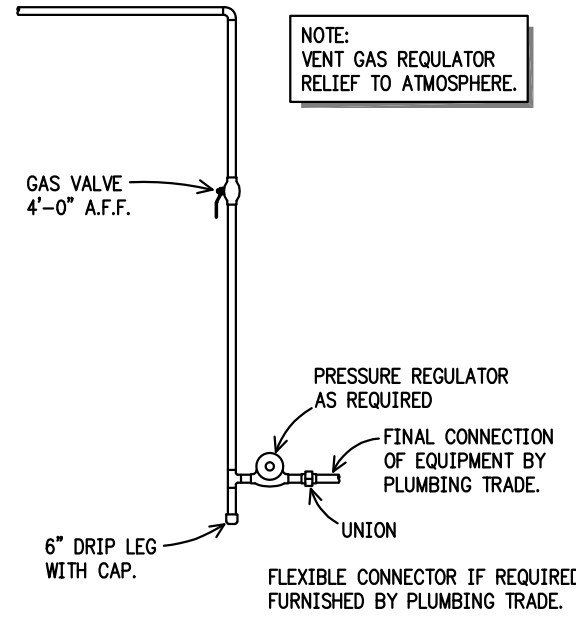
MULTIPLY BY 100

A. PRESSURE AVAILABLE FOR UNIFORM LOSS -

"A" = 13.5

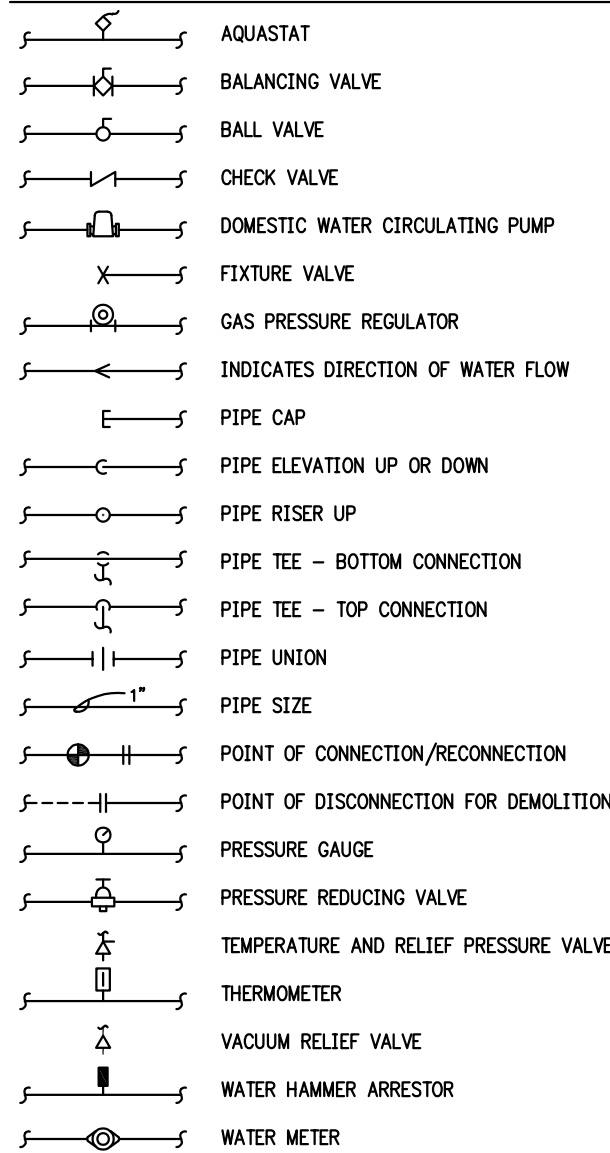


1 ELECTRIC WATER HEATER DETAIL  
P100 NO SCALE w/HOT WATER RETURN

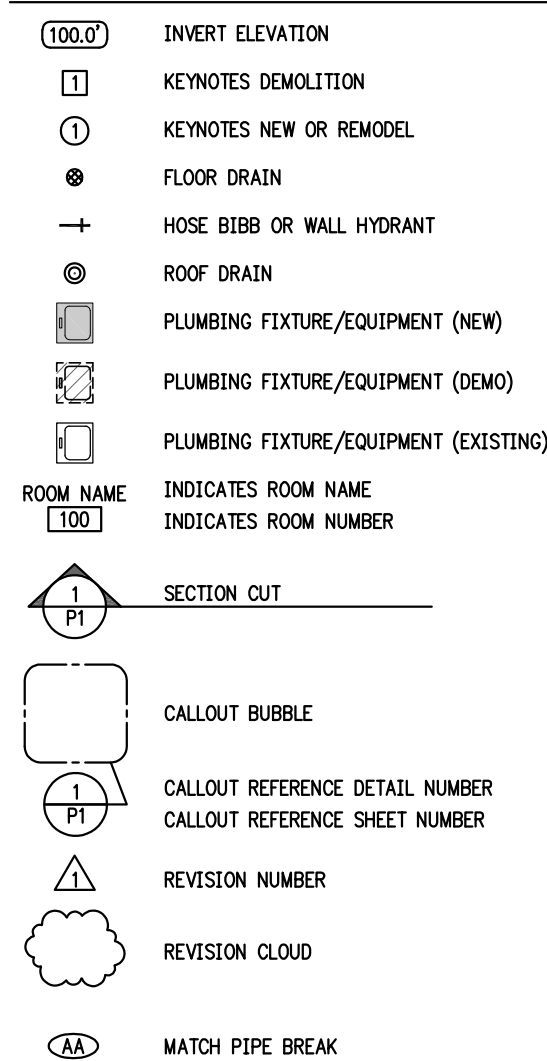


2 GAS CONNECTION DETAIL  
P100 NO SCALE FLOOR MOUNTED EQUIPMENT

PIPING SYMBOLS ABBREVIATIONS



GENERAL SYMBOLS



PLUMBING LEGEND

EQUIPMENT ABBREVIATIONS

B.F.P.	BACKFLOW PREVENTER
C.O.	CLEAN OUT
D.W.C.P.	DOMESTIC WATER CIRCULATING PUMP
E.T.	EXPANSTION TANK
E.W.H.	ELECTRIC WATER HEATER
F.C.O.	FLOOR CLEAN OUT
F.D.	FLOOR DRAIN
G.D.	GARBAGE DISPOSAL
H.B.	HOSE BIBB
O.S.	OPEN SITE DRAIN (HUB DRAIN)
P.G.	PRESSURE GAUGE
P.R.V.	PRESSURE REDUCING VALVE
R.D.	ROOF DRAIN
T.P.V.	TEMPERATURE/PRESSURE RELIEF VALVE
V.B.	VACUUM BREAKER
W.H.	WALL HYDRANT
WTR. MTR.	WATER METER

FIXTURES ABBREVIATIONS

E.W.C.	ELECTRIC WATER COOLER
E.W.	EMERGENCY EYE WASH
L.	LAVATORY SINK
L.T.	LAUNDRY TRAY
M.S.	MOP SINK
S.	SINK
SH.	SHOWER
U.	URINAL
W.C.	WATER CLOSET

PIPING SYSTEM ABBREVIATIONS

---	COLD WATER (C.W.)
---	HOT WATER (H.W.)
---	HOT WATER RETURN (H.W.R.)
LP---	LIQUEFIED PETROLEUM (PROPANE) (L.P.)
LW---	LOCAL WASTE (L.W.)
RL---	RAIN LEADER (R.L.)
SS---	SANITARY SEWER, SANITARY WASTE (W.)
ST---	STORM SEWER (ST.)
V---	VENT (V.)
C.V.	CIRCUIT VENT
R.V.	RELIEF VENT
W.	WASTE (SANITARY)
WTD.	WTD. MOUNTED
V.	VENT (SANITARY)
V.T.R.	VENT THRU ROOF

MECHANICAL EQUIPMENT ABBREVIATIONS

F.	FURNACE (BY M.C.)
----	-------------------

CODE ABBREVIATIONS

D.S.P.S.	DEPT. SAFETY PROFESSIONAL SERVICES
I.E.C.C.	INTERNATIONAL ENERGY CONSERVATION CODE
I.F.G.C.	INTERNATIONAL FUEL GAS CODE
N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION
N.F.P.A. 54	NATIONAL FUEL GAS CODE

GENERAL ABBREVIATIONS

A.B.	AIR BREAK
A.F.C.	ABOVE FINISH CEILING
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
A.F.R.	ABOVE FINISHED ROOF
A.G.	AIR GAP
A.P.	ACCESS PANEL
AVG.	AVERAGE
B.F.F.	BELOW FINISH FLOOR
B.F.G.	BELOW FINISH GRADE
B.T.U.	BRITISH THERMAL UNIT
B.T.U.H.	BRITISH THERMAL UNIT PER HOUR
CL.	CENTERLINE
CLG.	CEILING
C.O.	CLEAN OUT
CONT.	CONTINUE
CU. FT.	CUBIC FEET
CU. IN.	CUBIC INCHES
'	DEGREE
D.D.C.	DIRECT DIGITAL CONTROLS
D.F.U.	DRAINAGE FIXTURE UNITS
DIA. or Ø	DIAMETER
DN.	DOWN
DWG.	DRAWING
ELEC.	ELECTRICAL
EXIST. or EX.	EXISTING
' F	DEGREES FAHRENHEIT
FIN. FL.	FINISH FLOOR
FL.	FLOOR
F.P.M.	FEET PER MINUTE
F.P.S.	FOOT PER SECOND
FL.	FEET
GAL.	GALLONS
G.P.H.	GALLONS PER HOUR
G.P.M.	GALLONS PER MINUTE
HD.	HEAD (FEET)
I.E.	INVERT ELEVATION
H.P.	HORSEPOWER
HTG.	HEATING
H.V.A.C.	HEATING, VENTILATION AND AIR CONDITIONING
I.D.	INSIDE DIAMETER
IN.	INCH OR INCHES
k.w.	KILOWATT
lbs	POUNDS
L.W.T.	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
M.B.H.	MAXIMUM B.T.U.H.
MECH.	MECHANICAL
MFG.	MANUFACTURER
MIN.	MINIMUM
MTD.	MOUNTED
N.I.C.	NOT IN CONTRACT
N.P.S.	NOMINAL PIPE SIZE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
psf	POUNDS PER SQUARE INCH
psig	POUNDS PER SQUARE INCH GAUGE
RM.	ROOM
R.P.M.	REVOLUTIONS PER MINUTE
# sq.ft.	SQUARE FEET
S.P.	STATIC PRESSURE
SPEC.	SPECIFICATION
STD.	STANDARD
TEMP.	TEMPERATURE
TSTAT	THERMOSTAT
TYP.	TYPICAL
V.	VOLTS
w.c.	WATER COLUMN (GAS)
W.S.F.U.	WATER SUPPLY FIXTURE UNITS
W	WITH
1st.	MAIN LEVEL FLOOR

PLUMBING SHEET INDEX

SHEET #	SHEET NAME
P100	PLUMBING GENERAL INFORMATION SHEET, SCHEDULES, AND DETAILS
P101	PLUMBING DEMOLITION FLOOR PLANS
P102	PLUMBING DEMOLITION ROOF PLAN
P201	PLUMBING REMODEL FLOOR PLANS AND SCHEMATICS

CONTRACTOR ABBREVIATION KEY

ABBR:	CONTRACTOR:
B.C.	BUILDING CONTRACTOR
C.M.	CONSTRUCTION MANAGER
C.C.	CIVIL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR

LINE TYPE KEY

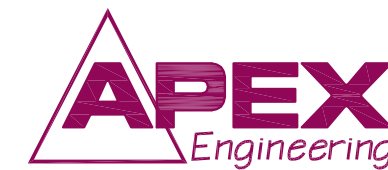
---	NEW WORK BELOW IN GRADE BY PLUMBING CONTRACTOR (DARK THICK SOLID LINE)
---	NEW WORK BY PLUMBING CONTRACTOR (DARK SOLID LINE)
---	NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
----	EXISTING TO BE REMOVED BY PLUMBING CONTRACTOR (DARK SHORT DASHED LINE)

GENERAL PLUMBING NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL, STATE, & LOCAL CODES; AS WELL AS THE NATIONALLY RECOGNIZED TESTING AND APPROVAL AGENCIES.
- PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTORS SHALL COORDINATE WITH ONE ANOTHER ALONG WITH OTHER TRADES BEFORE BEGINNING ANY INSTALLATION AND CONTINUING THROUGHOUT PROJECT.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- PLUMBING CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, WALL HEIGHTS, DOOR SWINGS, WINDOW LOCATIONS, AND ANY OTHER INFORMATION CRITICAL TO THE PLACEMENT OF PIPING AND EQUIPMENT. COORDINATE ANY POSSIBLE CONFLICTS WITH GENERAL CONTRACTOR OR PROJECT MANAGER BEFORE PERFORMING ANY WORK.
- PLUMBING CONTRACTOR IS RESPONSIBLE TO FOLLOW/INSTALL AS PER COMMENTS/CORRECTIONS MADE ON THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICE'S CONDITIONALLY APPROVED PLUMBING PLANS.
- PROVIDE OWNER TRAINING AND OPERATION AND MAINTENANCE MANUALS FOR THE FURNISHED EQUIPMENT PRIOR TO COMPLETION OF WORK.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, EQUIPMENT SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY VERIFY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- THE INSTALLING CONTRACTOR SHALL VERIFY REQUIREMENTS FOR SUPPORTED EQUIPMENT AND COMPONENTS OF ANY KIND WITH THE BUILDING AND/OR SUPPORT STRUCTURE DESIGNER PRIOR TO INSTALLATION. APEX ENGINEERING DOES NOT PROVIDE STRUCTURAL DESIGN SERVICES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES WITH ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OF EQUIPMENT ORDERS.
- VERIFY ALL SANITARY AND STORM PIPING INVERT ELEVATIONS BEFORE PERFORMING ANY WORK, AND COORDINATE INVERTS AT ALL FOOTINGS AND FOUNDATION WALLS WITH GENERAL CONTRACTOR.
- SANITARY WASTE AND STORM PIPING LOCATED IN CEILING SPACE, CHASES OF LIBRARY, OFFICES, CONFERENCE, TRAINING ROOMS ETC. WHERE SOUND NEEDS TO BE MINIMAL, ALL PIPING SHALL BE CAST IRON OR INSULATED PVC PIPING. COORDINATE WITH GENERAL CONTRACTOR.
- ALL CONTROLS SHALL BE PROPERLY TESTED, ADJUSTED, AND CALIBRATED BEFORE WORK IS COMPLETED.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, ETC.
- DO NOT BLOCK TUBE/COIL PULL OR EQUIPMENT SERVICE CLEARANCES.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO RESULT.
- MAINTAIN WORKING CLEARANCES AT ELECTRICAL EQUIPMENT SUCH AS ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES AND DISCONNECTS PER N.E.C. REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- ALL SANITARY VENTS SHALL BE LOCATED AT A MINIMUM OF 10 FEET FROM ANY MECHANICAL FRESH AIR INTAKES HOODS/LOUVERS AND 5 FEET FROM ANY MECHANICAL EXHAUST HOODS/LOUVERS.
- ALL WATER HEATER EXHAUST/INTAKE VENT PIPING THRU ROOF OR WALLS SHALL BE LOCATED AT A MINIMUM OF 10 FEET FROM ANY MECHANICAL FRESH AIR INTAKE HOOD/LOUVERS AND SHALL BE NOT LOCATED BELOW INTAKE WALL LOUVERS.
- MAINTAIN A MINIMUM OF 10' BETWEEN ROOF EDGE AND ALL ROOFTOP GAS PIPING AND VENTS THRU ROOF, INCLUDING WATER HEATER INTAKE AND EXHAUST VENT PIPING.
- ALL EQUIPMENT, AND PIPING SHALL BE KEPT CLEAN FROM DIRT & DEBRIS. DO NOT ALLOW THE INSIDE OF PLUMBING PIPING TO BE EXPOSED DURING CONSTRUCTION.
- FOR ALL FIRE RATED PENETRATIONS, ONLY USE U.L. LISTED, TESTED, AND APPROVED MATERIALS AND METHODS THAT MEET DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES APPROVAL. COORDINATE WITH ARCHITECTURAL PLANS AND GENERAL CONTRACTOR ON LOCATION AND RATING OF ALL FIRE RATED WALLS, CEILINGS, FLOORS, ETC. USE FIRE RATED MATERIALS AND METHODS THAT MEET DEPARTMENT OF COMMERCE APPROVAL.
- REFER TO ARCHITECTURAL ELEVATION PLAN FOR ALL LAVATORY, WATER COOLER, ETC. MOUNTING HEIGHTS.
- COORDINATE ACCESS PANEL IN HARD CEILINGS FOR CONTROL/ISOLATION VALVES WITH ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHT FIXTURES, LIGHT FIXTURE SUPPORT RODS, AND FIRE SPRINKLER HEADS FOR INTERFERENCE.
- DRAINS SHALL BE INSTALLED AT ALL LOW POINTS OF WATER PIPING SYSTEMS.
- PIPING CONNECTIONS WITH UNIONS OR FLANGES SHALL BE MADE TO COILS OR TUBE BUNDLES TO FACILITATE REMOVAL OF THAT ITEM WITHOUT DISTURBING THE BRANCH VALVES AND/OR PIPING.
- PROVIDE AND INSTALL PIPE SLEEVE AND SEAL ALL FLOOR AND WALL PENETRATIONS AIR AND WATER TIGHT. CORE DRILL THRU FLOOR OR WALL AS REQUIRED COORDINATE WITH GENERAL CONTRACTOR BEFORE PERFORMING ANY CORE DRILLING.
- COORDINATE WITH MECHANICAL CONTRACTOR ON FLOOR DRAIN/OPEN SITE LOCATIONS WITH MECHANICAL EQUIPMENT.
- INSTALL FLOOR CLEAN OUTS AND FLOOR DRAINS AT FINISH FLOOR ELEVATION. COORDINATE FINISH FLOOR ELEVATION AT THE DRAIN AND FLOOR CLEAN OUT LOCATION WITH GENERAL CONTRACTOR.
- SHUT-OFF VALVES INSTALLED IN INSULATED PIPING SHALL BE PROVIDED WITH EXTENDED OPERATOR HANDLE TO OUTSIDE OF INSULATION.
- PLUMBING CONTRACTOR SHALL VERIFY ALL SANITARY AND WATER PIPING LOCATION, INVERTS, AND CONDITION BEFORE PERFORMING ANY WORK.
- FLUSH HANDLES FOR A.D.A. WATER CLOSETS SHALL BE LOCATED ON THE APPROACH SIDE OF WATER CLOSET.
- COORDINATE WITH MECHANICAL CONTRACTOR ON GAS CONNECTION SIZE, LOCATION, AND PRESSURE REQUIREMENTS FOR MECHANICAL EQUIPMENT.
- GAS PRESSURE REGULATORS MAY BE SUPPLIED WITH VENT LIMITER WHERE ALLOWED BY NFPA, INTERNATIONAL FUEL GAS CODE, AND THE GAS FIRE EQUIPMENT MANUFACTURER SPECIFICATIONS. ATMOSPHERE VENTING SHALL BE INDIVIDUALLY VENTED TO THE EXTERIOR THRU ROOF OR SIDE WALL. VENT PIPING SHALL BE PROVIDED WITH WEATHER CAP AND PRIMED AND PAINTED. COLOR TO MATCH OR AS DIRECTED BY ARCHITECT AND/OR GENERAL CONTRACTOR. REGULATOR VENT SHALL BE SIZED BASED ON REGULATOR MANUFACTURER SPECIFICATIONS.
- NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL EQUIPMENT LOCATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT LOCATIONS.
- SEAL ALL EXTERIOR OPENINGS WATER TIGHT.
- PLUMBING CONTRACTOR TO THOROUGHLY CLEAN ALL EXPOSED PIPING FOR PAINTING AS SPECIFIED. PAINTING BY PAINTING CONTRACTOR.

PLUMBING RENOVATION NOTES:

- THE DEMOLITION PLAN HAS BEEN PREPARED TO ASSIST THE PLUMBING CONTRACTOR IN DETERMINING THE SCOPE OF WORK TO BE INCLUDED IN THIS PROJECT. IT IS NOT INTENDED TO BE A COMPLETE INDICATION OF ALL WORK REQUIRED TO COMPLETE THE PROJECT. THE PLUMBING CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS INCLUDING DEMOLITION SHOWN FOR OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, IN ORDER TO DETERMINE THE SCOPE OF DEMOLITION WORK.
- PLUMBING CONTRACTOR SHALL COMPLETELY REMOVE ALL PIPING, RELATED HANGERS, AND SUPPORTS BEING DEMOLISHED. PIPING THAT IS ABANDONED SHALL BE REMOVED IF IT BECOMES EXPOSED DURING THE DEMOLITION OR THE REMODELING PHASE OF THE PROJECT. ALL ABANDONED PIPING SHALL BE CAPPED. PLUMBING CONTRACTOR SHALL VERIFY ALL PIPING BEING REMOVED IS NO LONGER IN USE.
- REMOVE ALL ABANDONED SANITARY, VENT, AND WATER PIPING BELOW FLOOR COMPLETE IN AREAS OF FLOOR CUTTING. VERIFY USE OF PIPING BEFORE REMOVAL.
- REMOVE ALL ABANDONED SANITARY, VENT, AND WATER PIPING IN WALLS, CHASES, AND ABOVE FINISH CEILING SPACE COMPLETE IF PIPING IS EXPOSED DURING DEMOLITION. VERIFY USE OF PIPING BEFORE REMOVAL.
- ALL EXISTING SANITARY WASTE PIPING SHALL BE CLEANED AND INSPECTED TO ENSURE PIPING IS IN GOOD CONDITION FOR REUSE. ANY ISSUES OR DEFECTS DETECTED DURING CLEANING AND INSPECTION SHALL BE REPORTED TO OWNER AND GENERAL CONTRACTOR.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- REFER TO DIVISION 1, GENERAL REQUIREMENTS, CUTTING AND PATCHING THAT COVERS CUTTING AND PATCHING OF OPENINGS FOR ALL NEW AND REMOVED PLUMBING PIPING AND EQUIPMENT. WHERE GENERAL CONTRACTOR IS PERFORMING CUTTING AND PATCHING, COORDINATE WORK WITH GENERAL CONTRACTOR.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- ALL REMOVED ITEMS THAT THE OWNER WOULD LIKE TO RETAIN, SHALL BE REMOVED AND TURNED OVER TO THE OWNER AT DESIGNATED STORAGE SPACE ON SITE. ALL REMAINING ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
- THE INSTALLING CONTRACTOR SHALL VERIFY ALL STRUCTURAL REQUIREMENTS FOR SUPPORTED EQUIPMENT AND COMPONENTS OF ANY KIND WITH THE BUILDING AND/OR SUPPORT STRUCTURE DESIGNER PRIOR TO INSTALLATION. APEX ENGINEERING DOES NOT PROVIDE STRUCTURAL DESIGN SERVICES.
- PATCHING OF EXISTING FLOOR AND WALL OPENINGS FROM REMOVED PLUMBING PIPING OR EQUIPMENT SHALL BE PATCHED BY PLUMBING CONTRACTOR OR BY GENERAL CONTRACTOR AS A SUB CONTRACTOR TO THE PLUMBING CONTRACTOR.
- COORDINATE WITH OWNER FOR ANY PLUMBING FIXTURES, FLUSH VALVES, FAUCETS, ETC. THAT ARE BEING REMOVED TO BE SALVAGED AND TURNED OVER TO OWNER BEFORE PERFORMING ANY DEMOLITION.



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PLUMBING  
GENERAL INFORMATION SHEET,  
SCHEDULES, AND DETAILS

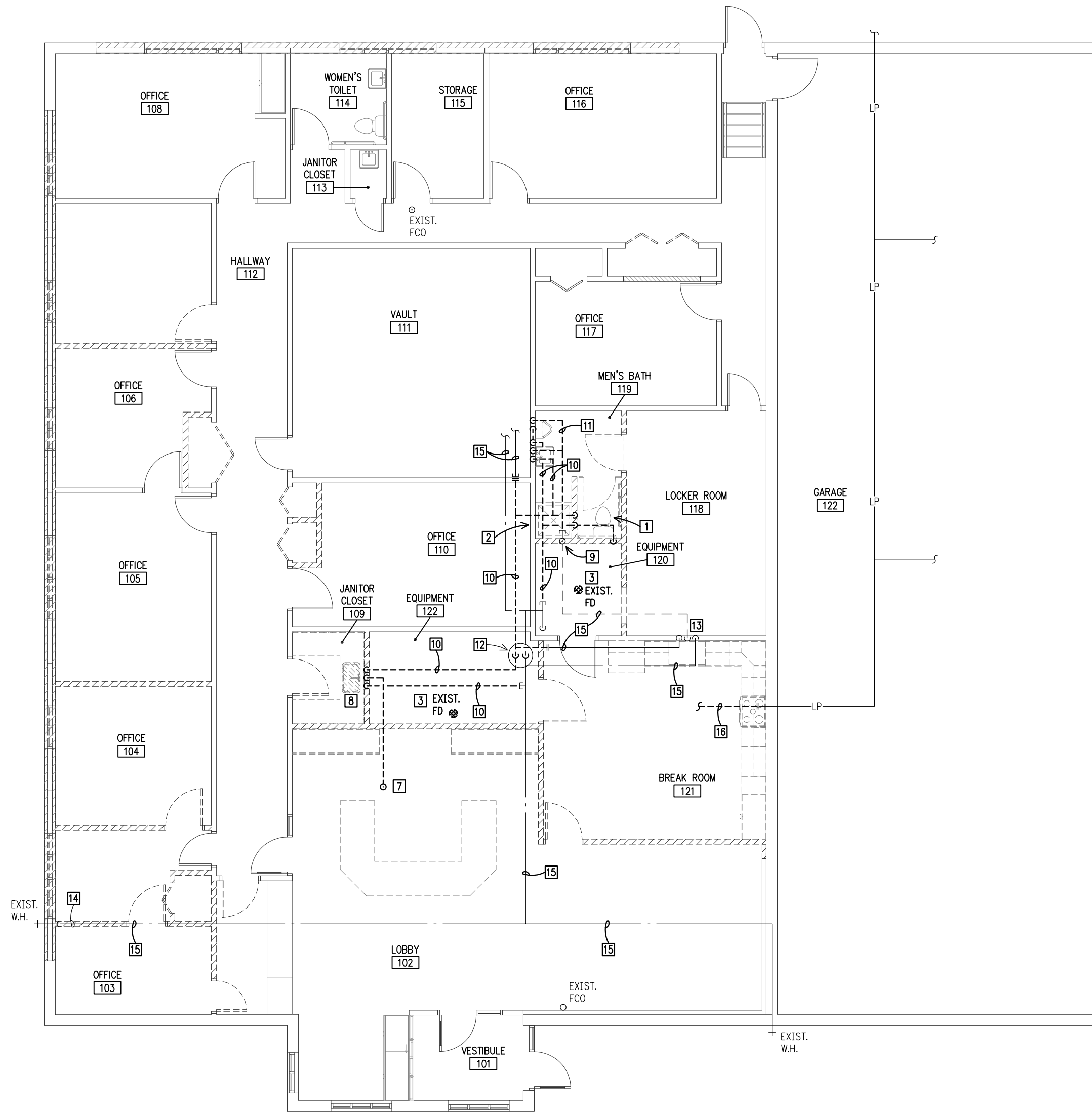
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ISSUE DATE:  
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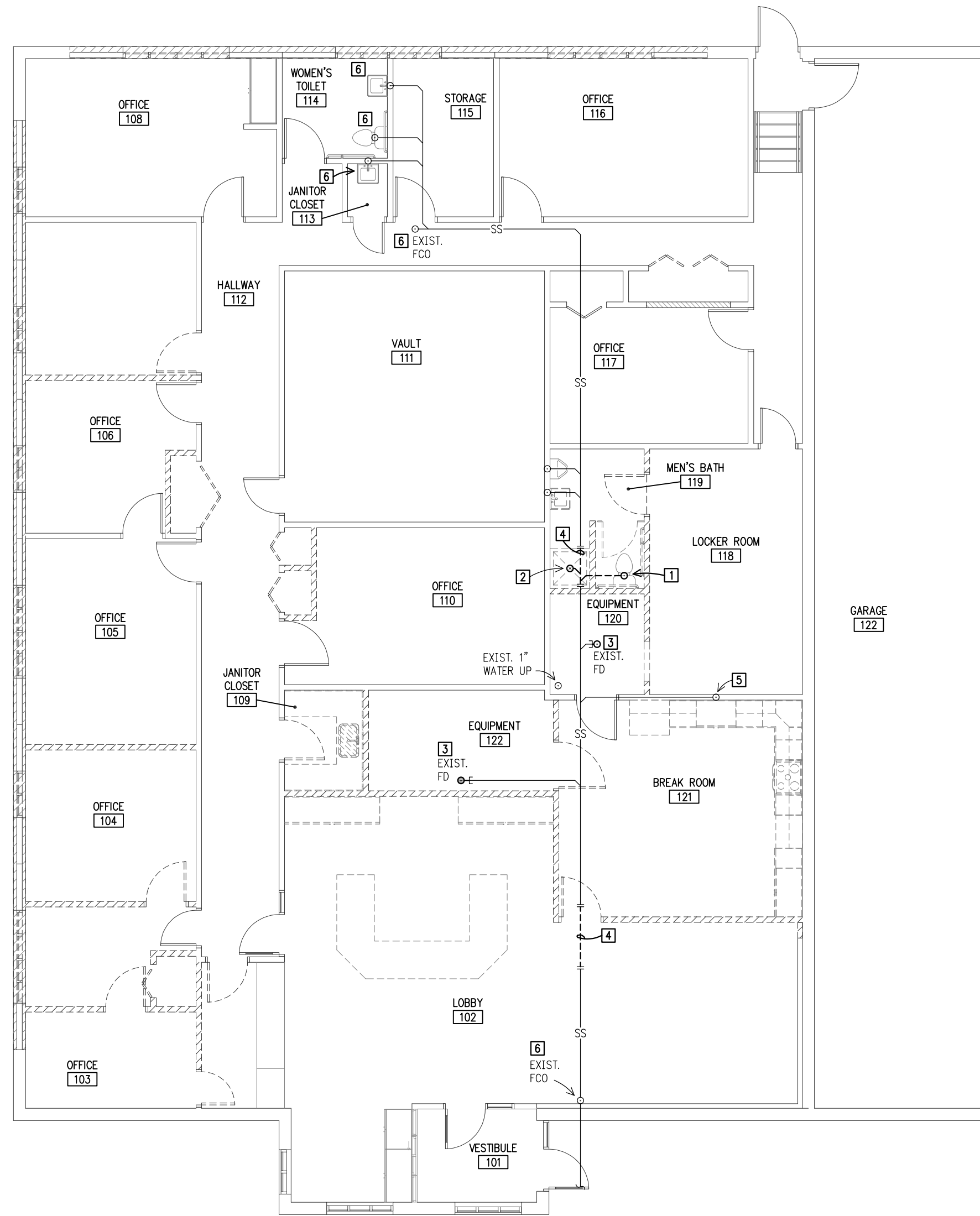
P100

L&P PROJECT #25020





**2**  
**P101** **PLUMBING FLOOR PLAN**  
(DEMOLITION)  
(ABOVE FLOOR)  
1/8"= 1'-0"  
TRUE NORTH  
PLAN NORTH



**1**  
**P101** **PLUMBING FLOOR PLAN**  
(DEMOLITION)  
(BELOW FLOOR)  
1/8"= 1'-0"  
TRUE NORTH  
PLAN NORTH

- PLUMBING DEMOLITION NOTES:
- DISCONNECT AND REMOVE EXISTING WATER CLOSET COMPLETE. CAP FLUSH WITH FLOOR. CONFIRM WITH OWNER IF THEY WOULD LIKE FIXTURE TO BE SALVAGED FOR FUTURE USE.
  - DISCONNECT AND REMOVE EXISTING SHOWER COMPLETE. CAP FLUSH WITH FLOOR. CONFIRM WITH OWNER IF THEY WOULD LIKE FIXTURE TO BE SALVAGED FOR FUTURE USE.
  - REMOVE EXISTING FLOOR DRAIN AND CAP FLUSH WITH FLOOR.
  - REMOVE EXISTING SANITARY PIPING FROM BREAK LINE OR FIXTURE TO BREAK LINE COMPLETE.
  - EXISTING 2" SANITARY UP TO SINK TO REMAIN.
  - EXISTING FIXTURE TO REMAIN.
  - EXISTING CAPPED VENT THRU ROOF TO BE REMOVED. REMOVE EXISTING VENT PIPING IN CEILING SPACE COMPLETE. FIELD VERIFY ANY CONNECTIONS AND/OR BRANCHES ARE NO LONGER SERVING ACTIVE FIXTURES.
  - SINK NO LONGER IN PLACE. REMOVE ANY EXISTING SANITARY. VENT, AND WATER PIPING COMPLETE. CAP WATER SUPPLY PIPING BACK AT MAIN AS SHOWN.
  - EXISTING VENT THRU ROOF TO REMAIN.
  - REMOVE EXISTING WATER PIPING FROM BREAK LINE OR FIXTURE TO BREAK LINE COMPLETE.
  - REMOVE EXISTING VENT PIPING FROM BREAK LINE OR FIXTURE TO BREAK LINE COMPLETE.
  - DISCONNECT AND REMOVE EXISTING ELECTRIC WATER HEATER. UNIT TO BE RELOCATED AND RECONNECTED DURING REMODEL PHASE OF PROJECT.
  - DISCONNECT AND REMOVE EXISTING SINK. DISPOSAL, AND RELATED TRIM COMPLETE. SINK AND DISPOSAL TO BE RELOCATED AND RECONNECTED DURING REMODEL PHASE OF PROJECT.
  - CONFIRM LOCATION OF EXISTING COLD WATER PIPING SERVING EXISTING WALL HYDRANT. COORDINATE WITH GENERAL CONTRACTOR FOR DISCONNECTION REQUIREMENTS DURING WALL DEMOLITION. WALL HYDRANT TO BE RECONNECTED DURING NEW CONSTRUCTION PHASE OF PROJECT.
  - EXISTING PIPING TO REMAIN.
  - DISCONNECT AND REMOVE ALL EXISTING UP GAS PIPING FROM POINT SHOWN TO EXISTING EQUIPMENT. NEW UP GAS PIPING TO BE INSTALLED TO SERVE NEW EQUIPMENT DURING NEW CONSTRUCTION PHASE OF PROJECT.



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PLUMBING  
DEMOLITION FLOOR PLAN

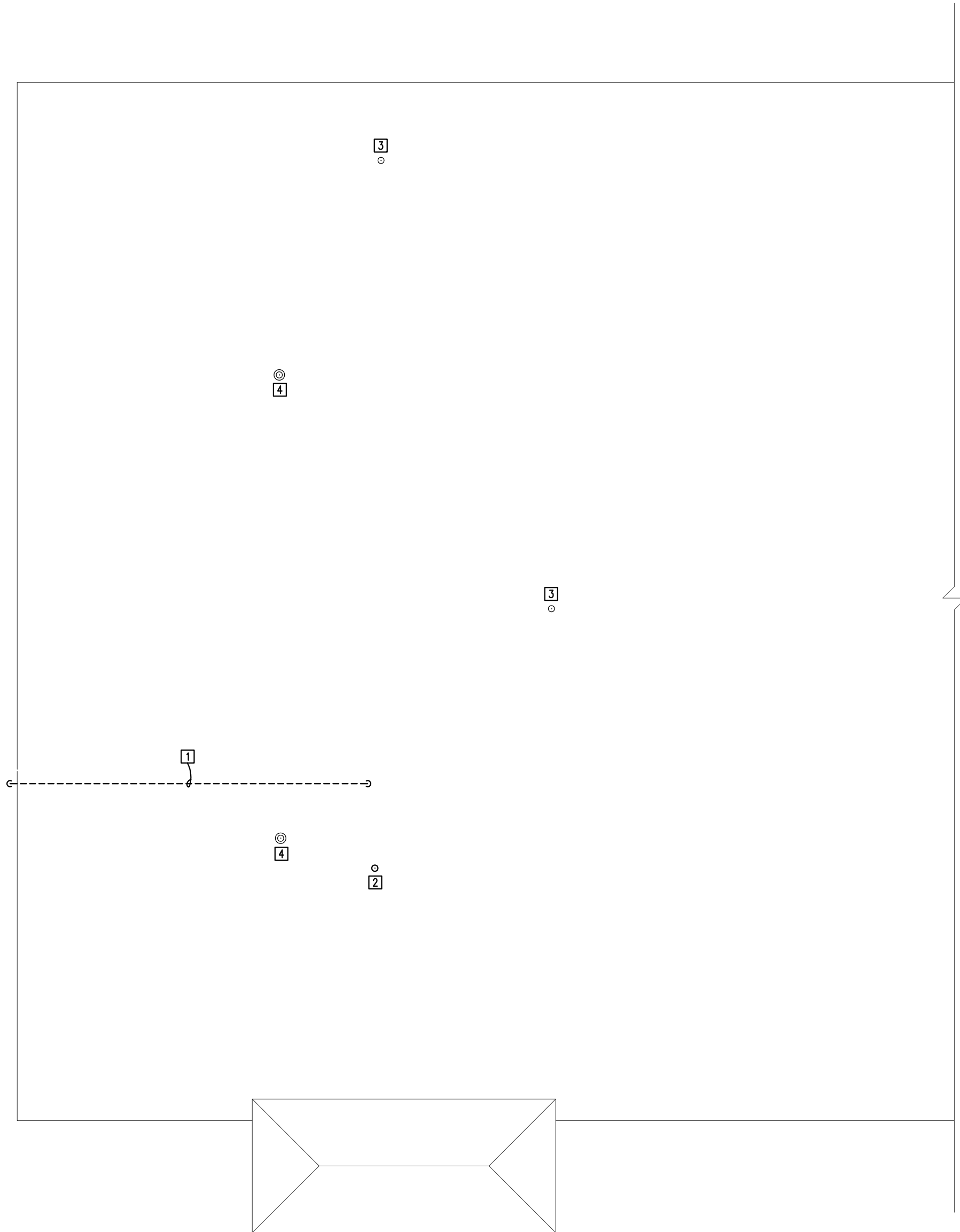
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P101

L&P PROJECT #25020





**1**  
**P102**

**PLUMBING ROOF PLAN**  
(DEMOLITION)

1/8"= 1'-0"

**TRUE NORTH**

**PLAN NORTH**

- PLUMBING DEMOLITION NOTES:
- 1 DISCONNECT AND REMOVE EXISTING PVC PIPING ON ROOF.
  - 2 EXISTING VENT THRU ROOF TO BE REMOVED.
  - 3 EXISTING VENT THRU ROOF TO REMAIN.
  - 4 EXISTING ROOF DRAIN TO REMAIN.



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PLUMBING  
DEMOLITION ROOF PLAN

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P102



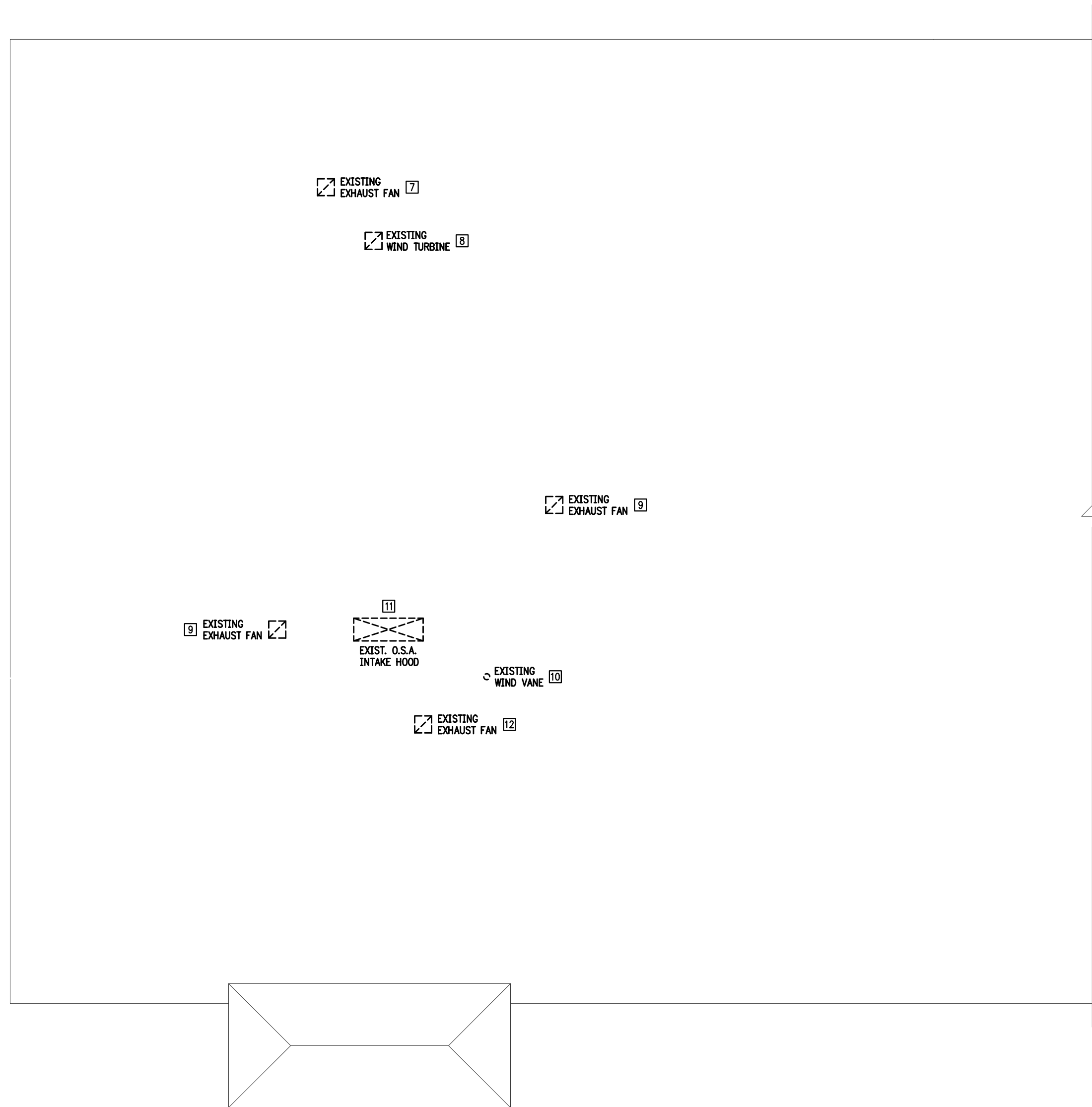
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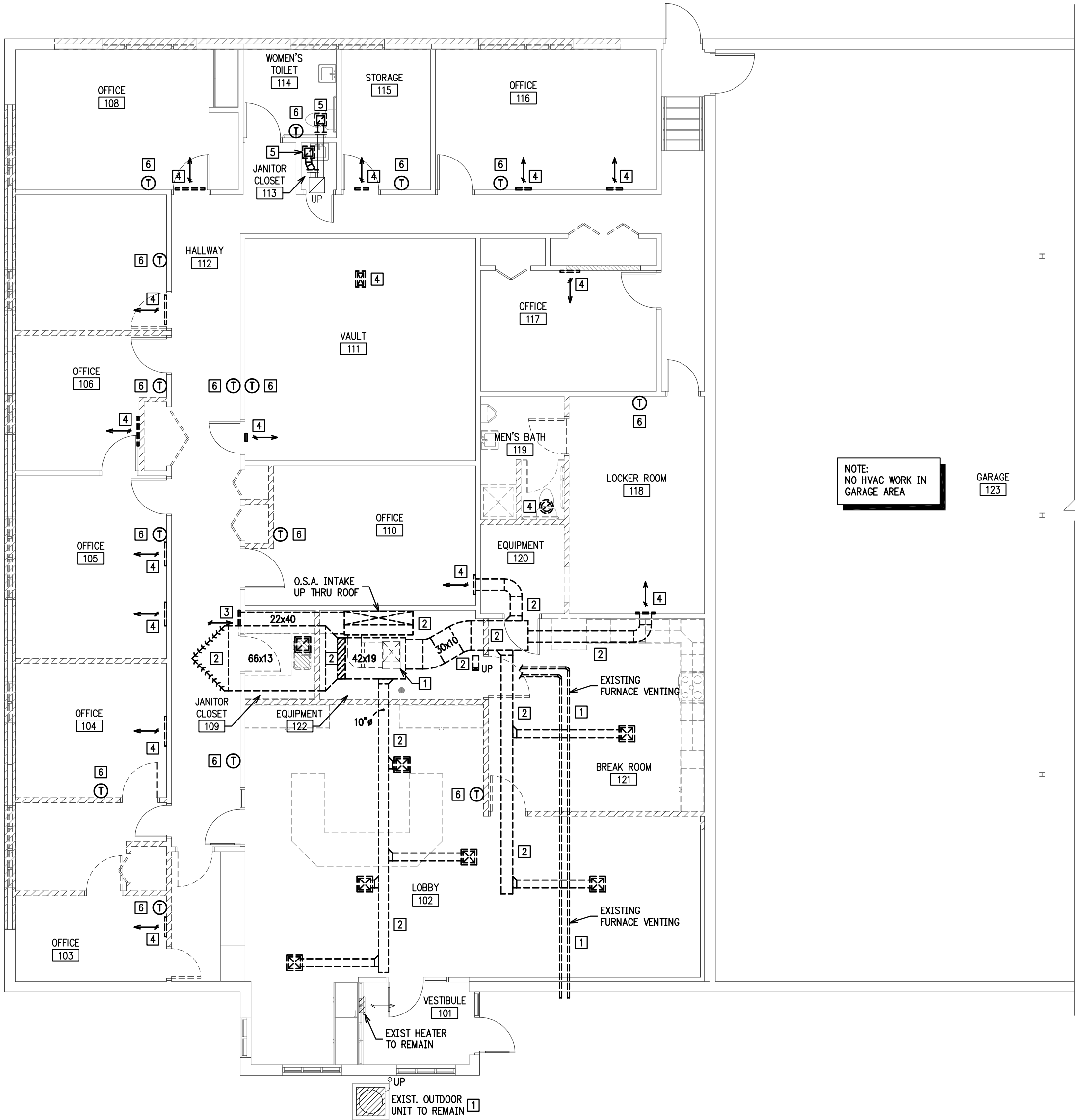


L&amp;P PROJECT #25020





**2 MECHANICAL ROOF PLAN**  
**M101** 1/8"= 1'-0" (DEMOLITION)  
TRUE NORTH  
PLAN NORTH



**1 MECHANICAL FLOOR PLAN**  
**M101** 1/8"= 1'-0" (DEMOLITION)  
TRUE NORTH  
PLAN NORTH

MECHANICAL SHEET INDEX	
M101	MECHANICAL DEMOLITION PLANS
M201	MECHANICAL REMODEL PLANS
M301	MECHANICAL SCHEDULES, NOTES, AND DETAILS

- MECHANICAL DEMOLITION NOTES:
- EXISTING FURNACE, EVAPORATOR COIL, AND OUTDOOR UNIT.  
REMOVE EXISTING FURNACE, EVAPORATOR COIL AND ALL ASSOCIATED COMPONENTS COMPLETE, AND SALVAGE FOR REUSE. REMOVE ALL EXISTING VENT PIPING COMPLETE. DISCONNECT AND REMOVE EXISTING AIR CONDITIONING LINESET AS REQUIRED TO ACCOMMODATE NEW WORK. EXISTING OUTDOOR UNIT TO REMAIN IN PLACE AND BE REUSED. ALL L.P. GAS PIPING DEMO IS BY P.C.
  - EXISTING DUCTWORK & DIFFUSERS:  
REMOVE ALL EXISTING DUCTWORK, CONNECTED DIFFUSERS, AND ASSOCIATED COMPONENTS COMPLETE.
  - EXISTING RETURN GRILLE:  
REMOVE EXISTING SIDEWALL RETURN GRILLE.
  - EXISTING AIR REGISTER:  
REMOVE EXISTING AIR REGISTER COMPLETE.
  - EXISTING EXHAUST AIR GRILLE (ROOMS 113 & 114):  
REMOVE EXISTING EXHAUST AIR GRILLE AND ASSOCIATED DUCTWORK AS REQUIRED TO ACCOMMODATE NEW WORK.
  - EXISTING THERMOSTAT:  
REMOVE EXISTING THERMOSTAT AND ASSOCIATED CONTROL DEVICES BACK TO SOURCE COMPLETE. ABANDONING ACCESSIBLE COMPONENTS IN PLACE IS NOT PERMITTED.
  - EXISTING EXHAUST FAN:  
REMOVE EXISTING ROOF MOUNTED EXHAUST FAN AND DAMPER COMPLETE. EXISTING CURB AND ASSOCIATED DUCTWORK SHALL REMAIN AND BE REUSED.
  - EXISTING WIND TURBINE:  
REMOVE EXISTING ROOF MOUNTED WIND TURBINE, DUCTWORK, AND ALL ASSOCIATED COMPONENTS COMPLETE. EXISTING ROOF CURB SHALL BE REMOVED BY ROOFING CONTRACTOR.
  - EXISTING EXHAUST FAN:  
REMOVE EXISTING ROOF MOUNTED EXHAUST FAN, DUCTWORK, AND ALL ASSOCIATED COMPONENTS COMPLETE. EXISTING ROOF CURB SHALL BE REMOVED BY ROOFING CONTRACTOR.
  - EXISTING WIND VANE:  
REMOVE EXISTING ROOF MOUNTED WIND VANE, DUCTWORK, AND ALL ASSOCIATED COMPONENTS COMPLETE. EXISTING DUCT THRU ROOF SHALL BE REMOVED BY ROOFING CONTRACTOR.
  - EXISTING OUTSIDE AIR INTAKE HOOD:  
REMOVE EXISTING ROOF MOUNTED OUTSIDE AIR INTAKE HOOD, DUCTWORK, AND ALL ASSOCIATED COMPONENTS COMPLETE. EXISTING ROOF CURB SHALL BE REMOVED BY ROOFING CONTRACTOR.
  - EXISTING ROOF MOUNTED EXHAUST FAN:  
REMOVE EXISTING ROOF MOUNTED EXHAUST FAN AND ASSOCIATED COMPONENTS COMPLETE. EXISTING ROOF CURB SHALL REMAIN AND BE REUSED.

NOTE:  
NO HVAC WORK IN  
GARAGE AREA

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Designed By: TVA

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ALMA CITY HALL REMODEL - PHASE 1

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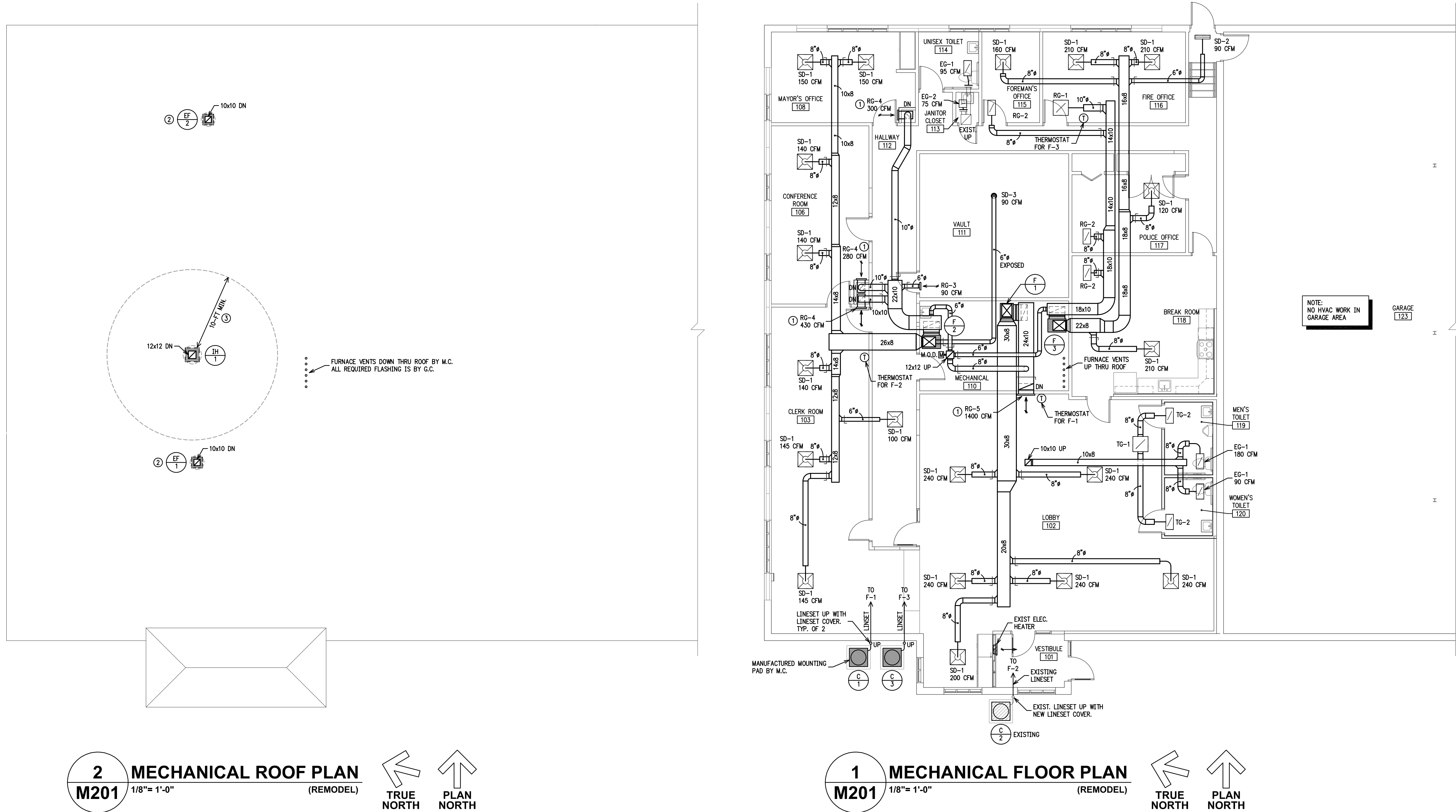
MECHANICAL  
DEMOLITION PLANS

REVISIONS:  
NO. DATE

ISSUE DATE:  
DECEMBER 16, 2025

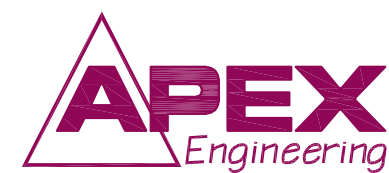
M101

L&P PROJECT #25020



MECHANICAL PLAN NOTES:

- ① SIDEWALL RETURN GRILLE:  
LOCATE SIDEWALL RETURN GRILLE AT 8" ABOVE FINISHED FLOOR.
- ② EXISTING ROOF CURB (REUSED):  
INSTALL NEW EXHAUST FAN ON EXISTING ROOF CURB. PROVIDE EXHAUST FAN WITH INTEGRAL FACTORY FABRICATED CURB ADAPTOR TO ACCOMMODATE NON-STANDARD CURB SIZE. FIELD VERIFY FINAL DIMENSIONS. FILL ENTIRE VOID IN EXISTING CURB WITH COMPRESSIBLE FIBERGLASS INSULATION.
- ③ OUTSIDE AIR CLEARANCE REQUIREMENTS:  
PROVIDE A MINIMUM OF 10'-11" CLEARANCE BETWEEN OUTSIDE AIR INTAKE HOOD AND ANY COMPONENT THAT PRODUCES CONTAMINATED AIR, SUCH AS EXHAUST FANS AND PRODUCTS OF COMBUSTION.



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MECHANICAL  
REMODEL PLANS

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DECEMBER 16, 2025

M201

L&P PROJECT #25020



DUCTWORK/INSULATION SCHEDULE

SYSTEM	DESCRIPTION	CLASS SEAL RATING	VAPOR BARRIER REQ'D	NOTES
SUPPLY AND RETURN PLENUMS FOR ALL AIR HANDLING DEVICES.	GALVANIZED SHEET METAL DUCTWORK WITH 1/2" INTERIOR DUCT LINER PINNED & GLUED AND 2.2" EXTERIOR DUCTWRAP INSULATION.	A	YES	1
SUPPLY MAINS FOR ALL AIR HANDLING DEVICES.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR WITH 2.2" EXTERIOR DUCTWRAP INSULATION. (R-6 MIN)	A	YES	1,2,3
RETURN MAINS FOR ALL AIR HANDLING DEVICES.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR.	A	YES	1,2,3
SUPPLY AIR BRANCH DUCTS FROM MAIN TO WITHIN 6" OF DIFFUSER.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR WITH 1" BAND CLAMPS, MAXIMUM SAG OF 2-1/2" BETWEEN CLAMPS.	A	YES	1
RETURN AIR BRANCH DUCTS FROM MAIN TO WITHIN 6" OF DIFFUSER.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR.	A	NO	1
SUPPLY AND RETURN BRANCH DUCT CONNECTION TO DIFFUSERS.	INSULATED FLEX DUCT, MAXIMUM OF 5-FT TO DIFFUSER. SUPPORT WITH 1" BAND CLAMPS, MAXIMUM SAG OF 2-1/2" BETWEEN CLAMPS.	A	YES	R-4.2
EXPOSED SUPPLY, RETURN, AND BRANCH DUCTS LOCATED IN CONDITIONED SPACE.	GALVANIZED SPIRAL ROUND SHEET METAL DUCTWORK PROPERLY PREPARED FOR PAINT.	C	NO	1,2,4
FRESH AIR INTAKE DUCTWORK FROM EXTERIOR TO AIR HANDLING DEVICES.	GALVANIZED SHEET METAL DUCTWORK WITH 2.2" EXTERIOR DUCTWRAP INSULATION. (R-6 MIN)	A	YES	1,2
EXHAUST AIR DUCTWORK WITHIN 10- FEET OF EXTERIOR WALL OR PLENUM DROP THRU ROOF.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR WITH 2.2" EXTERIOR DUCTWRAP INSULATION. (R-6 MIN)	B	YES	1,2
EXHAUST AIR DUCTWORK BEYOND 10- FEET OF EXTERIOR WALL OR PLENUM DROP THRU ROOF.	GALVANIZED SHEET METAL DUCTWORK ROUND OR RECTANGULAR.	B	NO	1,2

- ALL DUCTWORK TO BE FABRICATED PER SMACNA STANDARDS AND INSTALLED PER NFPA 90A AND 90B RECOMMENDATIONS.
- PROVIDE FLEXIBLE DUCT CONNECTORS ON ALL SUPPLY & RETURN DUCTS CONNECTING TO AIR HANDLING DEVICES.
- PROVIDE TURNING VANES IN ALL RECTANGULAR 90 DEGREE ELBOWS.
- ALL EXPOSED SURFACES SHALL BE CLEAN, DRY, AND FREE OF FOREIGN MATERIALS AND LUBRICANTS THAT WILL ADVERSELY AFFECT ADHESION OR APPEARANCE OF APPLIED PAINT COATING. REMOVE ALL DIRT AND GREASE WITH "W&P" NAPHTHA SOLVENT, OR EQUIVALENT WATER BASED COMMERCIAL DETERGENT AND WIPE DRY WITH A CLEAN CLOTH. ALL PAINTING OF DUCTWORK IS BY OTHERS.

GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING NEW AND EXISTING CONDITIONS, AND COORDINATING FINAL HVAC EQUIPMENT LOCATION WITH OTHER TRADES BEFORE BEGINNING INSTALLATION AND CONTINUING THROUGHOUT THE PROJECT.
- PROVIDE FULL SYSTEM START-UP, ONE YEAR PARTS & LABOR WARRANTY, AND 3-RING BINDER WITH O&M MANUALS FOR ALL INSTALLED EQUIPMENT.
- PROVIDE TESTING, ADJUSTING, AND BALANCING (TAB) FOR THE ENTIRE MECHANICAL SYSTEM IN ACCORDANCE WITH THE CURRENT EDITION OF THE NEBB PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS. INCLUDE TYPE WRITTEN REPORT WHICH SUMMARIZES THE TESTING AND BALANCING AND NOTES ANY DEFICIENCIES FOUND DURING TAB WORK.
- ALL LINE VOLTAGE POWER AND LINE VOLTAGE CONTROL WIRING SHALL BE BY E.C. ALL LOW VOLTAGE CONTROL WIRING, RELATED CONDUIT, AND GANG BOXES ARE BY M.C. INSTALL ALL THERMOSTATS AND SENSORS ON METAL GANG BOXES. RUN ALL LOW VOLTAGE WIRING (SURFACE OR CONCEALED) IN METAL CONDUIT FROM GANG BOX AND TERMINATE ABOVE CEILING OR JOIST SPACE.
- FURNACE SHALL BE AN APPROVED SEALED COMBUSTION UNIT VENTED TO THE ATMOSPHERE WITH PVC PIPING PER MANUFACTURERS RECOMMENDATIONS.
- COORDINATE WITH PLUMBING CONTRACTOR FOR THE INSTALLATION OF A FLOOR DRAIN OR OPEN SITE RECEPTOR NEAR FURNACE FOR CONDENSATE REMOVAL. IF FLOOR DRAIN IS NOT AVAILABLE, PROVIDE A CONDENSATE PUMP (ONE PER FURNACE) AND PIPE TO NEAREST RECEPTOR.
- ALL 2-PSI NATURAL GAS PIPING SHALL BE BY PLUMBING CONTRACTOR.
- "POUNDS TO INCHES" REGULATOR BETWEEN 2-PSI PIPING AND THE CONVENTIONAL GAS PIPING SYSTEM SERVING EACH APPLIANCE SHALL BE BY PLUMBING CONTRACTOR.
- COMMON SPACE THERMOSTATS SHALL BE 7-DAY ELECTRONIC PROGRAMMABLE TYPE WITH NIGHT SETBACK CAPABILITIES.
- TEST, ADJUST, AND CALIBRATE ALL CONTROLS UPON COMPLETION OF WORK.
- INSTALL ALL THERMOSTATS AT 48 INCHES ABOVE FINISHED FLOOR AND PROGRAM PER OWNERS REQUIREMENTS.
- SEAL ALL EXTERIOR OPENINGS WATER TIGHT.

SEQUENCE OF OPERATION:

LOBBY AREA, FURNACE F-1:

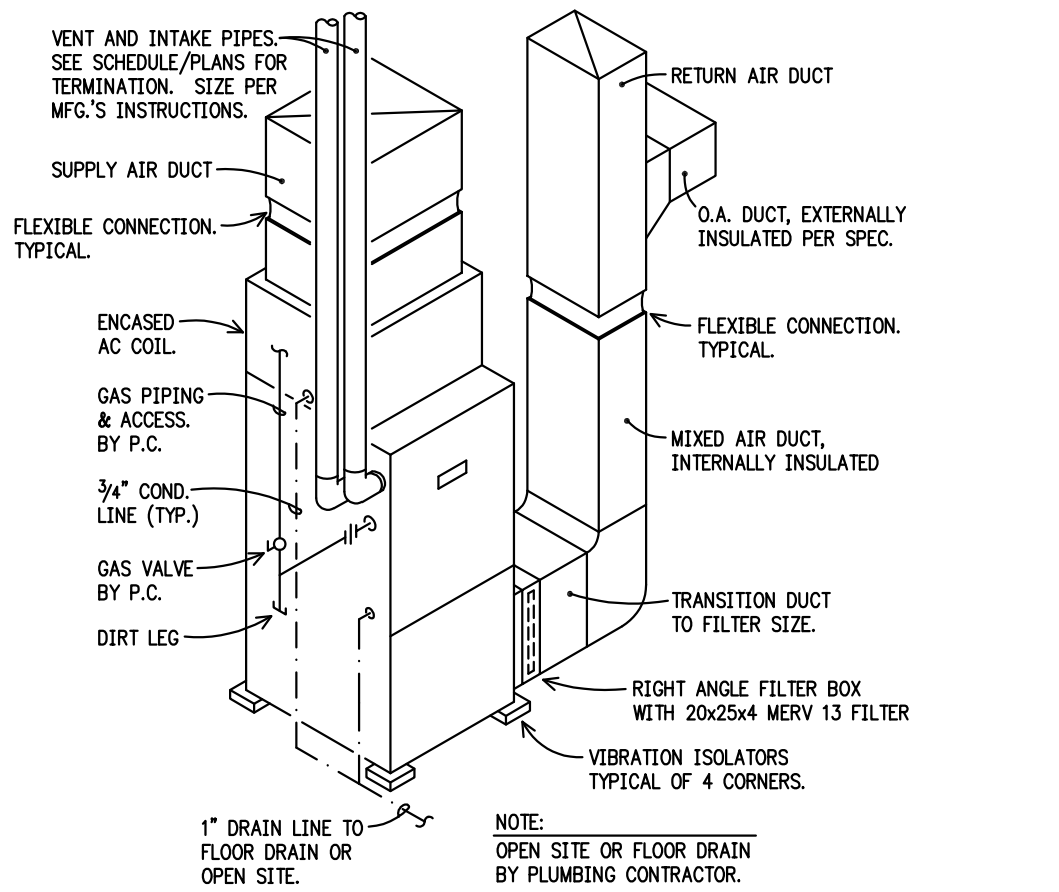
OCCUPIED HOURS:  
WITH CONTROLLING THERMOSTAT IN "OCCUPIED" MODE: BLOWER ON FURNACE F-1 AND EXHAUST FAN EF-1 ARE ENERGIZED AND RUN CONTINUOUS, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING INTAKE HOOD IH-1 OPENS TO MINIMUM POSITION, AND SPACE TEMPERATURE IS MAINTAINED BY THE OCCUPIED SET POINT OF ELECTRONIC PROGRAMMABLE THERMOSTAT.

UNOCCUPIED HOURS:  
WITH CONTROLLING THERMOSTAT IN "UNOCCUPIED" MODE: BLOWER ON FURNACE F-1 CYCLES ON & OFF AS REQUIRED, EXHAUST FAN EF-1 IS OFF, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING INTAKE HOOD IH-1 IS CLOSED, AND SPACE TEMPERATURE IS MAINTAINED BY THE UNOCCUPIED SET POINT OF ELECTRONIC PROGRAMMABLE THERMOSTAT.

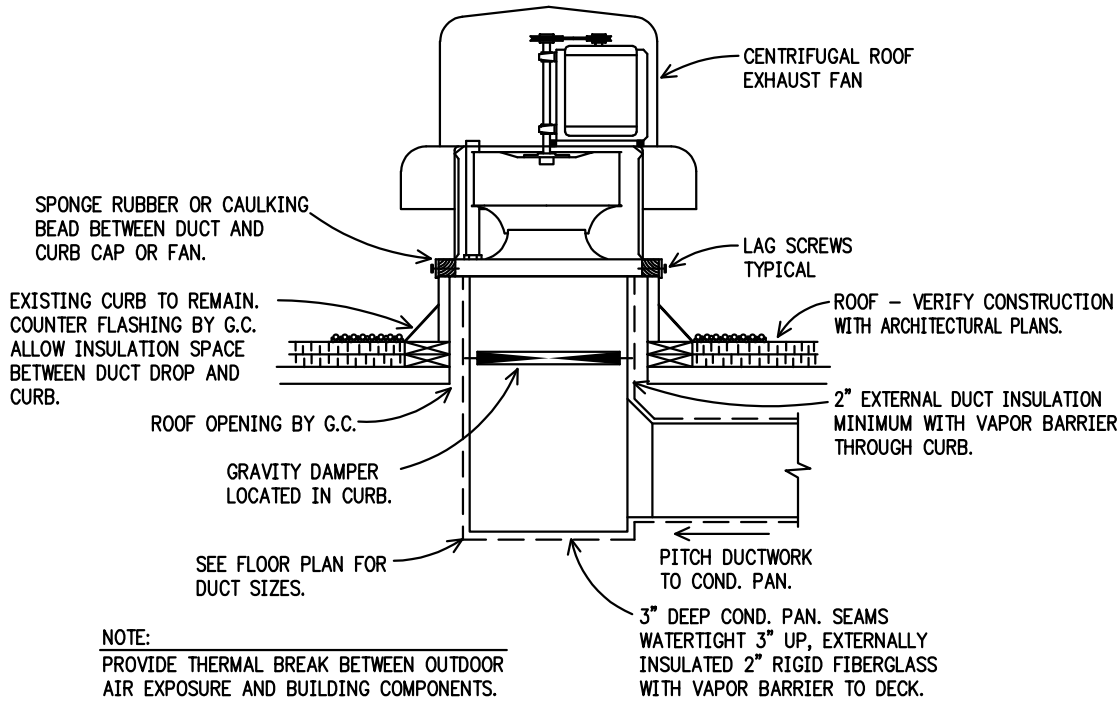
OFFICE AREA, FURNACE F-2 & F-3:

OCCUPIED HOURS:  
WITH CONTROLLING THERMOSTAT IN "OCCUPIED" MODE: BLOWERS ON FURNACE F-2 & F-3, ALONG WITH EXHAUST FAN EF-2 ARE ENERGIZED AND RUN CONTINUOUS, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING INTAKE HOOD IH-1 OPENS TO MINIMUM POSITION, AND SPACE TEMPERATURE IS MAINTAINED BY THE OCCUPIED SET POINT OF CORRESPONDING ELECTRONIC PROGRAMMABLE THERMOSTAT.

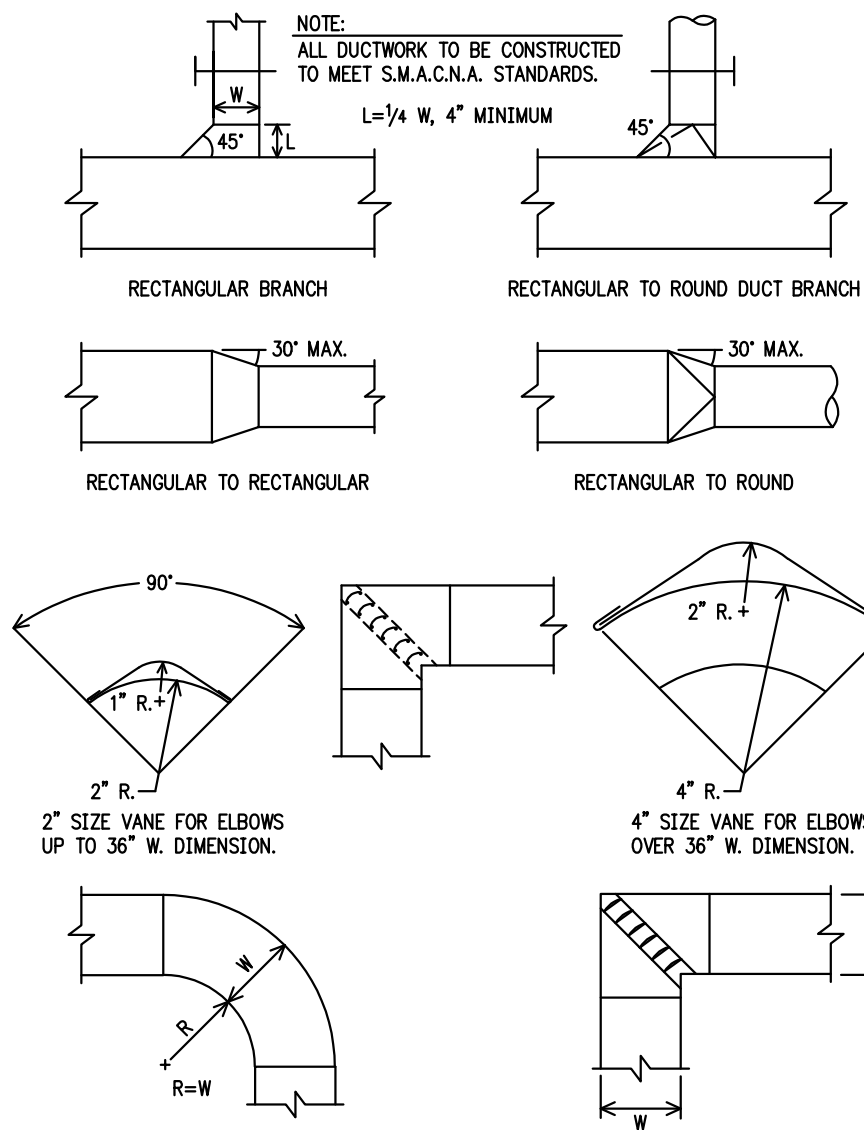
UNOCCUPIED HOURS:  
WITH CONTROLLING THERMOSTAT IN "UNOCCUPIED" MODE: BLOWERS ON FURNACE F-2 & F-3 CYCLES ON & OFF AS REQUIRED, EXHAUST FAN EF-2 IS OFF, FRESH AIR INTAKE DAMPER (M.O.D.) SERVING INTAKE HOOD IH-1 IS CLOSED, AND SPACE TEMPERATURE IS MAINTAINED BY THE UNOCCUPIED SET POINT OF CORRESPONDING ELECTRONIC PROGRAMMABLE THERMOSTAT.



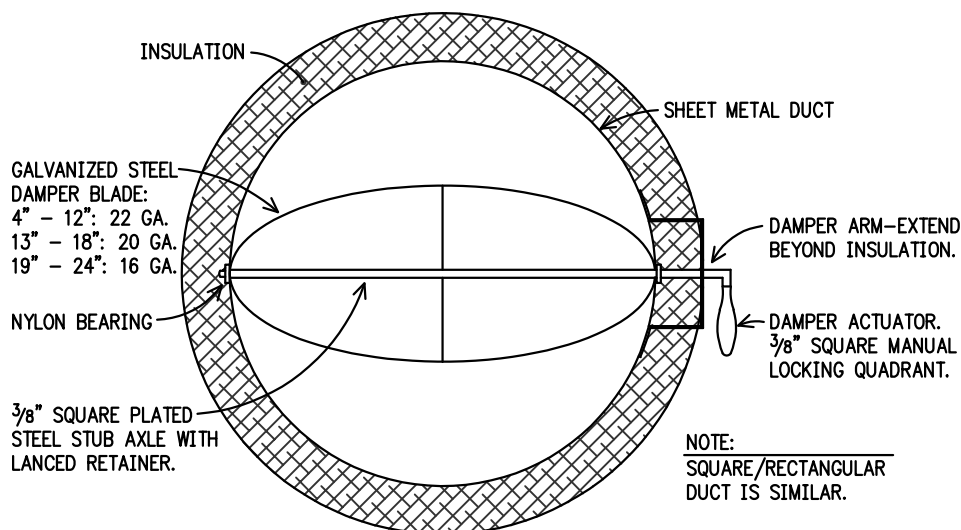
1 GAS FURNACE DETAIL  
M301 NO SCALE (F-1,2,3)



2 PRV EXHAUST FAN DETAIL  
M301 NO SCALE



3 DUCTWORK DETAIL  
M301 NO SCALE



4 TYPICAL DAMPER DETAIL  
M301 NO SCALE

GAS FURNACE SCHEDULE

PLAN SYMBOL	GAS TYPE	INPUT MBH	OUTPUT MBH	AFUE	CFM	MIN. F.A.	EXT. S.P.	BLOWER				PILOT	VENT SIZE	FILTER	MANUFACTURER & MODEL NO.	NOTES
								SIZE	DRIVE	HP	ELEC. DATA					
F-1	2-PSI L.P.	H=80.0 LO=56.0	H=77.6 LO=54.3	97.0%	1400	270	0.5"	11x10	DIR.	3/4	120/1/60	HSI	2"	20x25x4	AMANA AR9T960304CN EXISTING AMANA AM9C960803BN	1,2,3,4
F-2	2-PSI L.P.	H=80.0 LO=56.0	H=76.8 LO=53.7	96.0%	1200	115	0.5"	11x8	DIR.	1/2	120/1/60	HSI	2"	20x25x4	AMANA AR9T960403AN	1,2,3,4,5
F-3	2-PSI L.P.	H=40.0 LO=28.0	H=38.8 LO=27.1	97.0%	1000	55	0.5"	11x6	DIR.	1/2	120/1/60	HSI	2"	20x25x4	AMANA AR9T960403AN	1,2,3,4

- 7-DAY ELECTRONIC PROGRAMMABLE SETBACK THERMOSTAT WITH AUTO CHANGEOVER & OVERRIDE BUTTON BY HONEYWELL #TH8320 SERIES OR EQUAL.
- PROVIDE A 1" PVC CONDENSATE LINE TO LOCAL OPEN SITE RECEPTOR. COORDINATE LOCATION WITH P.C.
- INCLUDE MANUFACTURED FILTER BOX CAPABLE OF EXCEPTING A 20x25x4 MERV 13 FILTER.
- EXTEND TWO PIPE PVC VENTING SYSTEM UP THRU ROOF AND TERMINATE PER MANUFACTURERS REQUIREMENTS.
- EXISTING FURNACE WAS SALVAGED FOR REUSE. CLEAN AND INSPECT PRIOR TO INSTALLING. REPORT ANY DISCREPANCIES TO ENGINEER.

CONDENSING UNIT SCHEDULE

PLAN SYMBOL	INDOOR UNIT	COOLING CAPACITY MBH	CONDENSING UNIT		EVAPORATOR COIL TYPE	SEER2 RATING	EER2 RATING	ACCESSORIES	NOTES
			ELECTRICAL DATA	MCA					
C-1	F-1	39.5	208/1/60	19.4	AMANA ALXS3BN4210A CAPTA4230C3A	13.4	11.2	TXV, 1-1/8" X 3/8" INSULATED LINESET	1,3,4
C-2	F-2	33.6	208/1/60	18.6	EXISTING AMANA ASXHN3N3610A CAPTA3626B4A	13.5	11.2	TXV, 7/8" X 3/8" INSULATED LINESET	2,3
C-3	F-3	28.0	208/1/60	15.1	AMANA ALXSBN3010A CAPTA3026B3A	13.4	11.2	TXV, 3/4" X 3/8" INSULATED LINESET	1,3,4

- R32 REFRIGERANT
- R410A REFRIGERANT
- INCLUDE UV RESISTANT PVC LINESET COVER BY DIVERSITECH OR EQUAL TO COMPLETELY CONCEAL EXTERIOR LINESET. PAINT TO MATCH EXISTING BRICK.
- INSTALL ON MANUFACTURED MOUNTING PAD.

EXHAUST FAN SCHEDULE

PLAN SYMBOL	ROOM NO.	SERVING	CFM	ESP	RPM	H.P.	ELECTRICAL DATA	DRIVE	FAN TYPE	MANUFACTURER & MODEL NO.	CONTROL	ACCESS.	NOTES
EF-1	102	TOILET RMS 119 & 120	270	0.4"	1210	1/6	120/1/60	DIR.	ROOF	GREENHECK G-095-VG	INTERLOCK W/ F-1	1,2	3
EF-2	113	TOILET & JAN. RMS 113 & 114	170	0.4"	1347	1/10	120/1/60	DIR.	ROOF	GREENHECK G-095-VG	INTERLOCK W/ F-2 & F-3	1,2	3

- PROVIDE UNIT WITH NEMA-1 DISCONNECT SWITCH, EC MOTOR, GRAVITY BACKDRAFT DAMPER, AND POTENTIOMETER DIAL FOR AIR BALANCING.
- EXHAUST FAN SHALL INCLUDE INTEGRAL FACTORY FABRICATED CURB ADAPTOR TO ACCOMMODATE NON-STANDARD CURB SIZE.
- INSTALL NEW EXHAUST FAN ON EXISTING ROOF CURB. FOR BIDDING PURPOSES, EXISTING CURB SIZES ARE:  
- EF-1 = 17x17, EF-2 = 17x17. FIELD VERIFY FINAL REQUIREMENTS.

ROOF HOOD SCHEDULE - INTAKE

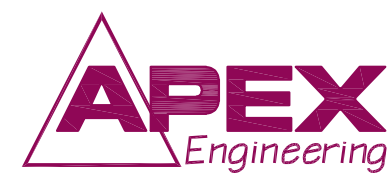
PLAN SYMBOL	ROOM NO.	SERVING	CFM	THROAT AREA	THROAT SIZE	SP (IN. WG)	THROAT VELOCITY (FPM)	MATERIAL TYPE	DAMPER	INSUL.	MANUFACTURER & MODEL NO.	ACCESS.	NOTES
IH-1	110	FURNACE F-1,2,&3	440	0.82	12"	0.048"	537	ALUM.	YES	YES	GREENHECK GRSI	1,2	3

- PROVIDE UNIT WITH 24-VOLT MOTORIZED INTAKE AIR DAMPER (M.O.D.) AND GALVANIZED BIRD SCREEN.
- FACTORY FABRICATED, 24" HIGH INSULATED ROOF CURB WITH WOOD NAILER STRIPS. VERIFY ROOF PITCH TO MOUNT CURB LEVEL.
- ROOF CURB SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. ALL REQUIRED FLASHING IS BY GENERAL CONTRACTOR.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

PLAN SYMBOL	DESCRIPTION	MATERIAL TYPE	MANUFACTURER & MODEL NO.	ACCESSORIES	NOTES
SD-1	24x24 LAY-IN ARCHITECTURAL SUPPLY DIFFUSER WITH 4-WAY DEFLECTION & SQUARE PLAQUE CENTER CORE	STEEL	TITUS OMNI (TYPE 3)	---	1
SD-2	24" ADJUSTABLE MODULINEAR PLENUM SLOT DIFFUSER WITH 6" INLET, 3-SLOT, 1" SLOT WIDTH AND INTERNAL INSULATION.	STEEL	TITUS TBD-30	LAY-IN CEILING	---
SD-3	6" ROUND CEILING SUPPLY DIFFUSER WITH 360 DEGREE DISCHARGE PATTERN AND 2-POSITION ADJUSTABLE STEPPED RINGS.	STEEL	TITUS TMR	SURFACE MOUNT	---
RG-1	24x24 LAY-IN RETURN AIR GRILLE WITH 1/2x1/2x1/2 GRID CORE AND CHANNEL FRAME	ALUM.	TITUS 50F (TYPE 7)	PLENUM BOX PAINTED BLACK	---
RG-2	24x12 LAY-IN RETURN AIR GRILLE WITH 1/2x1/2x1/2 GRID CORE AND CHANNEL FRAME	ALUM.	TITUS 50F (TYPE 7)	PLENUM BOX PAINTED BLACK	---
RG-3	8x6 SIDEWALL RETURN AIR GRILLE WITH 3/4" SPACED HORIZONTAL FRONT BARS SET @ 35 DEGREES	STEEL	350RL (TYPE 1)	---	---
RG-4	12x16 SIDEWALL RETURN AIR GRILLE WITH 3/4" SPACED HORIZONTAL FRONT BARS SET @ 35 DEGREES	STEEL	350RL (TYPE 1)	---	---
RG-5	24x24 SIDEWALL RETURN AIR GRILLE WITH 3/4" SPACED HORIZONTAL FRONT BARS SET @ 35 DEGREES	STEEL	350RL (TYPE 1)	---	---
TG-1	24x24 LAY-IN TRANSFER AIR GRILLE WITH 1/2x1/2x1/2 GRID CORE AND CHANNEL FRAME	ALUM.	TITUS 50F (TYPE 7)	PLENUM BOX PAINTED BLACK	---
TG-2	22x10 LAY-IN TRANSFER AIR GRILLE WITH 3/4" SPACED HORIZONTAL FRONT BARS SET @ 0 DEGREES	ALUM.	TITUS 350ZFL (TYPE 3)	PLENUM BOX PAINTED BLACK	2
EG-1	22x10 LAY-IN EXHAUST AIR GRILLE WITH 3/4" SPACED HORIZONTAL FRONT BARS SET @ 0 DEGREES	ALUM.	TITUS 350ZFL (TYPE 3)	PLENUM BOX PAINTED BLACK	2
EG-2	10x10 EXHAUST AIR GRILLE WITH 3/4" SPACED HORIZONTAL FRONT BARS SET @ 35 DEGREES	ALUM.	350FL (TYPE 1)	PLENUM BOX PAINTED BLACK	---

- SEE FLOOR PLAN FOR REQUIRED NECK SIZE
- LESS SCREW HOLES FOR LAY-IN APPLICATION



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MECHANICAL  
SCHEDULES, NOTES, AND DETAILS

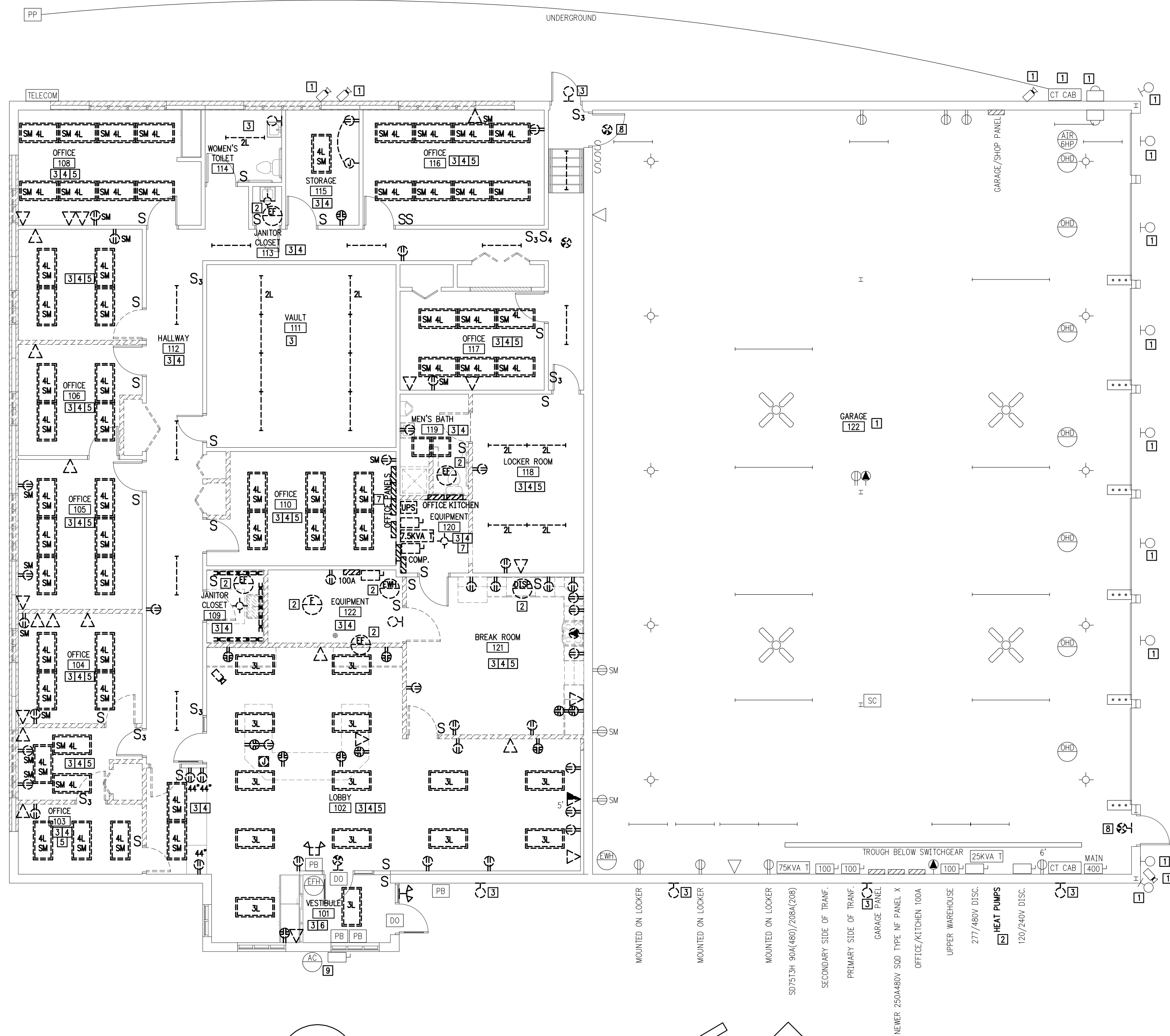
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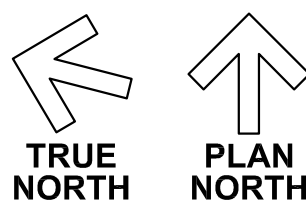
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L&P PROJECT #25020





1 ELECTRICAL FLOOR PLAN (DEMOLITION)  
E101 1/8" = 1'-0"



- ELECTRICAL NOTES:
- THIS DEMOLITION PLAN HAS BEEN PREPARED TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF DEMOLITION WORK TO BE INCLUDED IN THIS PROJECT. IT IS NOT INTENDED TO BE A COMPLETE INDICATION OF ALL DEMOLITION WORK REQUIRED TO COMPLETE THE PROJECT. THE CONTRACTOR SHOULD REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING DEMOLITION SHOWN FOR OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, IN ORDER TO DETERMINE THE SCOPE OF DEMOLITION WORK.
  - E.C. SHALL PROVIDE COVERS ON ALL OPEN J-BOXES CREATED BY DEMOLITION WORK. G.P.C. SHALL PROVIDE PATCHING AND PAINTING CREATED BY DEMOLITION WORK.
- ELECTRICAL DEMOLITION NOTES:
1. EXISTING EQUIPMENT, NO WORK REQUIRED UNLESS OTHERWISE NOTED.
  2. E.C. SHALL REMOVE CONNECTION TO EQUIPMENT AND ALL APPURTENANCES COMPLETE. COORDINATE WITH OTHER TRADES.
  3. E.C. SHALL REMOVE LIGHTING, CONTROL AND ALL APPURTENANCES COMPLETE. SALVAGE RECESSED CONDUIT AND BOXES AS MUCH AS POSSIBLE FOR REUSE IN REMODEL. FIELD COORDINATION REQUIRED.
  4. E.C. SHALL REMOVE RECEPTACLES, POWER STRIPS, POWERED BASEBOARDS AND ALL APPURTENANCES COMPLETE. SALVAGE RECESSED CONDUIT AND BOXES AS MUCH AS POSSIBLE FOR REUSE IN REMODEL. FIELD COORDINATION REQUIRED. MANY OFFICES HAVE POWERED BASEBOARDS.
  5. E.C. SHALL REMOVE TELECOM DEVICES AND ALL APPURTENANCES COMPLETE.
  6. ADA DOOR OPERATORS TO REMAIN. REMOVE CONDUCTORS TO PANEL AND SALVAGE RECESSED CONDUIT. PREP FOR NEW CONDUCTORS FROM NEW PANEL.
  7. E.C. SHALL REMOVE SWITCHGEAR, TRANSFORMERS, AND ALL APPURTENANCES COMPLETE. FIELD INVESTIGATE BRANCH CIRCUITS PRIOR TO DEMO.
  8. E.C. SHALL REMOVE EXIT SIGN AND PREP FOR A NEW EXIT SIGN IN A SIMILAR LOCATION.
  9. DISCONNECT EXISTING EQUIPMENT AND BUILDING MOUNTED DISCONNECT. PREP FOR RECONNECTION TO NEW PANEL A. SEE REMODEL PLANS FOR MORE INFORMATION.

SYMBOL SCHEDULE	
LIGHTING	RECEPTACLES
<div><div><div>FIXTURE TYPE</div><div>SWITCH LESS OR RELAY #</div><div>LAY-IN TROFFER DESIGNATIONS TYPICAL FOR ALL FIXTURE TYPES</div></div><div><div>X-XX</div><div>CIRCUIT #</div><div>PANEL DESIGNATION</div></div></div> <div>STRIP / INDUSTRIAL FIXTURE</div> <div>CEILING FIXTURE</div> <div>WALL PACK / SCONCE FIXTURE</div> <div>EXIT LIGHT -CEILING MOUNT</div> <div>EXIT LIGHT -WALL MOUNT</div> <div>EXIT/EGRESS LIGHT COMBINATION -UNIVERSAL MOUNT</div> <div>EMERGENCY LIGHT -CEILING MOUNT</div> <div>EMERGENCY LIGHT -WALL MOUNT</div> <div>EMERGENCY LIGHT REMOTE HEADS -WALL MOUNT</div> <div>SINGLE POLE WALL SWITCH -44" TO CENTER AFF</div> <div>S3THREE WAY WALL SWITCH -44" TO CENTER AFF</div> <div>S4FOUR WAY WALL SWITCH -44" TO CENTER AFF</div> <div>S0DIM DIMMING WALL SWITCH -44" TO CENTER AFF</div> <div>MS1OCCUPANCY SENSOR (SINGLE SWITCH) -44"</div> <div>MS2OCCUPANCY SENSOR (DIMMING SWITCH) -44" TO CENTER AFF</div> <div>MS3OCCUPANCY SENSOR -CEILING MOUNT</div>	<div><div><div>⊕</div><div>SINGLE RECEPTACLE -18" TO CENTER AFF</div></div><div><div>⊕</div><div>DUPLEX RECEPTACLE -CEILING MOUNT</div></div><div><div>⊕GFI</div><div>GFI PROTECTED DUPLEX RECEPTACLE -18" TO CENTER AFF</div></div><div><div>⊕</div><div>DOUBLE DUPLEX RECEPTACLE -18" TO CENTER AFF</div></div><div><div>⊕</div><div>SPECIAL PURPOSE RECEPTACLE -18" TO CENTER AFF</div></div><div><div>—</div><div>SINGLE CIRCUIT PLUGMOLD</div></div><div><div><div>⊕</div><div>JUNCTION BOX -18" TO CENTER AFF</div></div><div><div>⊕</div><div>JUNCTION BOX -CEILING MOUNT</div></div><div><div>BOX</div><div>ADA DOOR OPERATOR -44" TO CENTER AFF</div></div><div><div>PB</div><div>PUSHBUTTON -44" TO CENTER AFF</div></div><div><div>SC</div><div>SPEED CONTROL SWITCH -44" TO CENTER AFF</div></div><div><div>⏻</div><div>ON/OFF PUSH BUTTON CONTROL</div></div><div><div><div>Y</div><div>X EQUALS FUSE SIZE Y EQUALS DISCONNECT SIZE</div></div><div><div>XX</div><div>XX</div><div>EQUIPMENT NAME PER SCHEDULE EQUIPMENT # PER SCHEDULE</div></div><div><div>⏻</div><div>POWER PANELBOARD (FLUSH MOUNT) -WALL MOUNT AT 74" AFF TO TOP</div></div><div><div>⏻</div><div>POWER PANELBOARD (SURFACE MOUNT) -WALL MOUNT AT 74" AFF TO TOP</div></div><div><div>—   </div><div>GROUND</div></div></div></div></div>
SECURITY	COMMUNICATION
<div><div>□</div><div>CLOSED CIRCUIT CAMERA</div></div>	<div><div>▽</div><div>PHONE OUTLET -WALL MOUNT</div></div> <div><div>▽</div><div>INFORMATION OUTLET -18" TO CENTER AFF</div></div>
ABBREVIATIONS	
EC ELECTRICAL CONTRACTOR MC MECHANICAL CONTRACTOR PC PLUMBING CONTRACTOR GC GENERAL CONTRACTOR C AIR COOLED CONDENSING UNIT DWC DOM. WATER CIRCULATING PUMP EF EXHAUST FAN EFH ELECTRIC FAN FORCED HEATER	EWH ELECTRIC WATER HEATER F FURNACE GFI GROUND FAULT INTERRUPTOR SM SURFACE MOUNT WP WEATHER PROOF GRD GROUND

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ELECTRICAL  
DEMOLITION FLOOR PLAN

REVISIONS:  
NO. DATE

ISSUE DATE:  
DECEMBER 16, 2025

E101

L&P PROJECT #25020

**APEX**  
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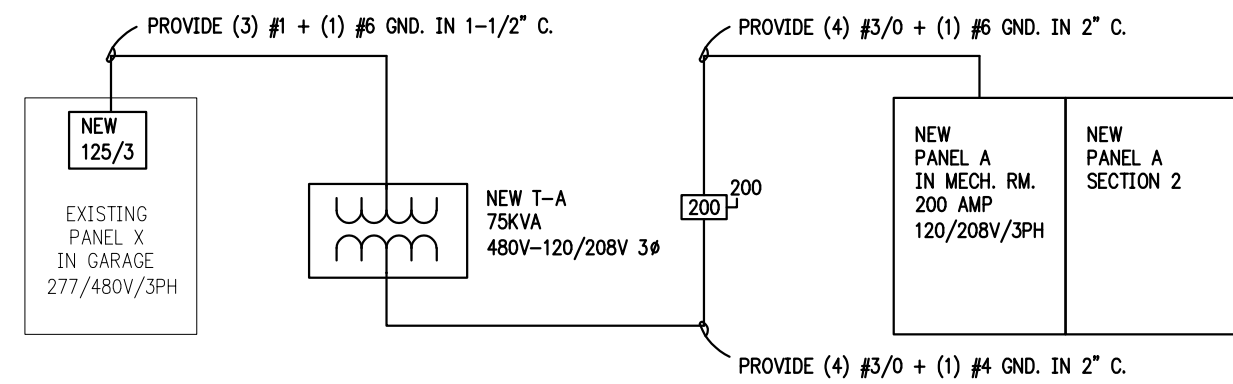


SENSORS				
DES.	DESCRIPTION	MFG.	PART #	MTG. HT
MS1	WALL, SINGLE SWITCH, DUAL TECH., 1000' C., LINE VOLTAGE.	SENSORWORX	SWX-121	44" AFF
MSD	WALL, DIMMABLE, DUAL TECH., 1000' C., LINE VOLTAGE.	SENSORWORX	SWX-123D	44" AFF
MS3	CEILING LOW VOLTAGE SENSOR, 2000' COVERAGE	SENSORWORX	SWX-222-1	VERIFY

- 
- The floor plan of the second floor of the World Trade Center is a complex layout with numerous rooms and corridors. Key rooms include the Mayor's Office (108), Foreman's Office (115), Police Office (117), Vault (111), Break Room (118), Clerk's Room (103), and various restrooms. The plan also shows structural columns labeled A-1, A-3, A-5, B2, B4, and S3, and various doors and windows. The plan is oriented with North at the top.

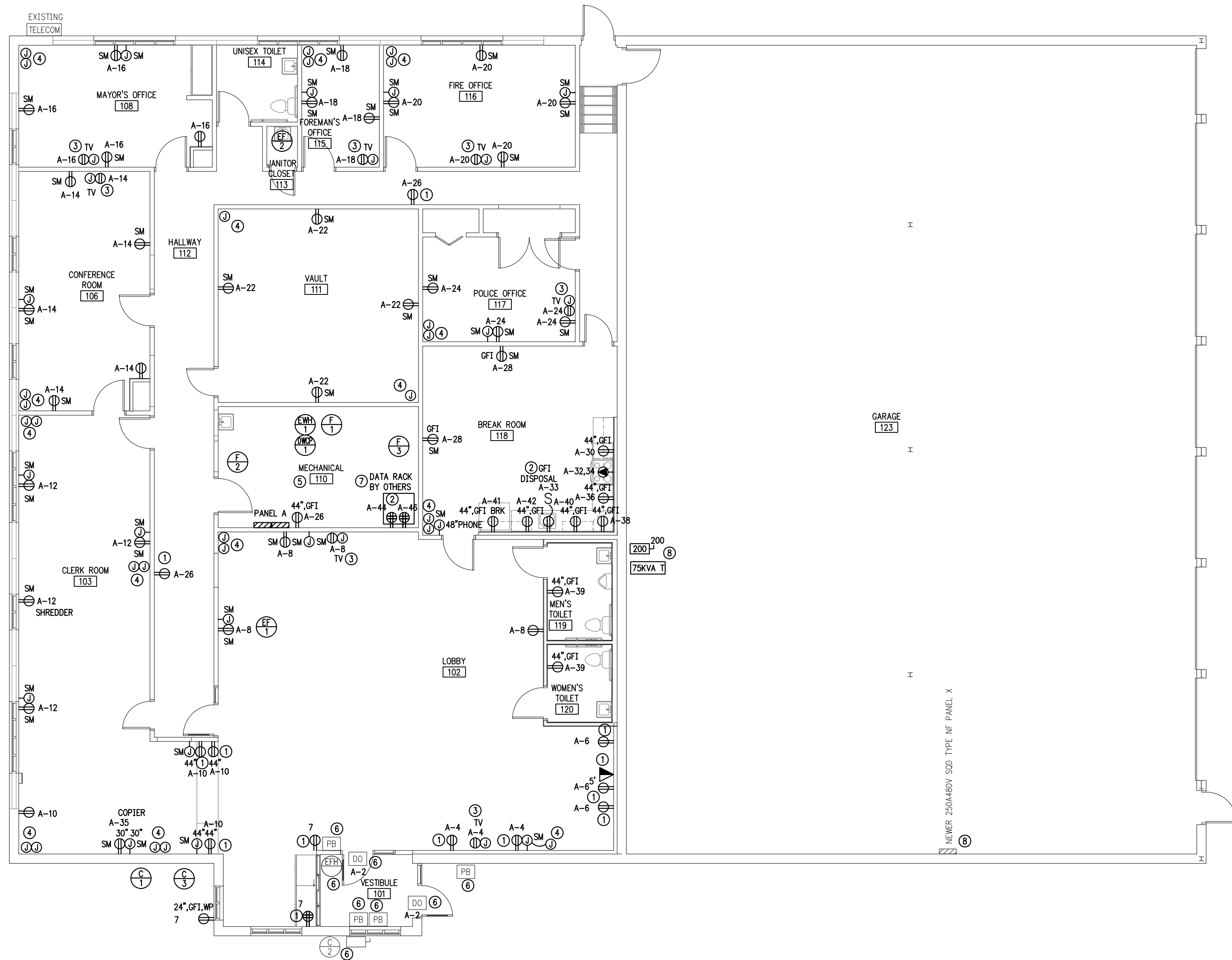
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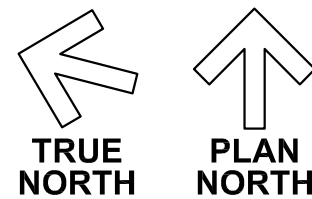


2	PARTIAL POWER RISER DIAGRAM	
	E301 NO SCALE	(REMODEL POWER)

- |          |  |
|----------|--|
| <b>Q</b> | <b>ELECTRICAL NOTES:</b>   |
|          | <p>— E.C. SHALL PROVIDE SURFACE RACEWAY ON EXISTING WALLS IN FINISHED ROOMS.</p> <p>— E.C. SHALL COORDINATE WITH THE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL ROOM CLASSIFICATIONS AND FIRE RATINGS PRIOR TO BIDS.</p> <p>— PROVIDE GFCI, AFCI AND INTR RECEPTABLES PER CODE. OWNER TO VERIFY ALL LOCATIONS.</p> <p>— FINAL COORDINATION REQUIRED WITH OWNER ON ALL NEW RECEPTACLE AND DATA ROUGH-IN LOCATIONS PRIOR TO INSTALLATION.</p> <p>OWNER TO COORDINATE TELEPHONE AND SECURITY ITEMS. E.C. ONLY RESPONSIBLE FOR CONDUIT ROUGHINGS AND HEAD END 120V POWER. EXISTING CAMERAS MAINTAINED BY MAHCO TECHNOLOGIES.</p> |
| 1.       | REUSE EXISTING -BOX AND EXISTING CONDUIT AS MUCH AS POSSIBLE.  |
| 2.       | COORDINATE POWER REQUIREMENTS AND LOCATIONS WITH OWNER PURCHASED EQUIPMENT.  |
| 3.       | CEILING -BOX FOR TELECOM CABLES AND CEILING DUPLEX RECEPTACLE FOR WALL MOUNTED TV. COORDINATE LOCATION WITH ARCHITECT AND OWNER.   |
| 4.       | PROVIDE -BOXES ABOVE THE CEILING AND SURFACE RACEWAY FOR POWER AND TELECOM. RUN SURFACE RACEWAYS DOWN THE WALL TO 18" AND 24" (48" FOR WALL PHONE) AND THEN RUN HORIZONTALLY TO WALL MOUNTED BOXES FOR DUPLEX RECEPTABLES AND TELECOM -BOXES. SURFACE RACEWAY TO BE EQUAL TO PENDANT TYPE UPH 5. SURFACE -BOXES TO BE EQUAL TO PENDANT APPROX. PROVIDE ALL FITTINGS AND MOUNTING HARDWARE. COLOR SHALL BE WHITE. COORDINATE ALL LOCATIONS WITH OWNER AND FURNISHINGS.  |
| 5.       | SURFACE EMT CONDUIT IS ALLOWED IN THIS ROOM FOR POWER AND DATA. COORDINATE CONDUIT ROUGH-INS FROM EXISTING EXTENDER TELECOM BOX TO DATA RACK. AT A MINIMUM, PROVIDE (2) 2" PVC CONDUITS BETWEEN THE TWO FOR BIDDING PURPOSES.  |
| 6.       | EXTEND NEW CONDUIT AND CONDUCTORS TO EXISTING EQUIPMENT. USE AS MUCH OF THE EXISTING CONDUIT AS POSSIBLE. FIELD COORDINATE WALL HEATER REQUIREMENTS IN THE VESTIBULE.  |
| 7.       | PROVIDE GROUNDING FOR TELECOM RACK. SEE SPEC SECTION 26 05 26.   |
| 8.       | PROVIDE A NEW 125A/3P BREAKER IN PANEL X. COORDINATE LOCATION OF EQUIPMENT WITH OWNER PRIOR TO INSTALL. MOST WORK IN THE GARAGE WILL BE PART OF PHASE 2 EXCEPT ITEMS RELATED TO THE NEW TRANSFORMER.   |



# 1 ELECTRICAL FLOOR PLAN

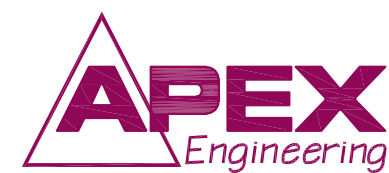


MOTOR, HVAC & EQUIPMENT SCHEDULE																		
IDENTIFICATION			CHARACTERISTICS			DISCONNECT DEVICE				STARTER				CONTROLS/CONTROL WIRING				NOTES
IDENT.	CIRCUIT #	FEEDER SIZE	KW,HP,FLA	V/PH	LOCATION	TYPE	NEMA	PROVIDE BY	LOCATION	TYPE	NEMA	PROVIDE BY	LOCATION	CHARACTERISTICS	WIRE BY	PROVIDED BY	LOCATION	
C-1	A-9,11	2-#10+1-#10GND	19.4 MCA	208V/1PH	EXTERIOR	HEAVY DUTY NON-FUSED	3R	E.C.	AT UNIT	INTEGRAL				HVAC CONTROLS	M.C.	M.C.		1
C-2	A-13,15	2-#10+1-#10GND	18.6 MCA	208V/1PH	EXTERIOR	EXISTING			AT UNIT	INTEGRAL				HVAC CONTROLS	M.C.	M.C.		1
C-3	A-17,19	2-#10+1-#10GND	15.1 MCA	208V/1PH	EXTERIOR	HEAVY DUTY NON-FUSED	3R	E.C.	AT UNIT	INTEGRAL				HVAC CONTROLS	M.C.	M.C.		1
DWCP-1	A-51	2-#12+1-#12GND	FRACT.	120V/1PH	110	MOTOR RATED SNAP SWITCH	1	E.C.	AT UNIT	INTEGRAL				AQUASTAT/THERMOSTAT	E.C.	P.C.		2
EF-1	A-29	2-#12+1-#12GND	1/6 HP	120V/1PH	112	INTERLOCK WITH F-1			AT UNIT	RELAY	1	E.C.		INTERLOCK WITH F-1	E.C.	M.C.		1
EF-2	A-29	2-#12+1-#12GND	1/10 HP	120V/1PH	113	INTERLOCK WITH F-2,3			AT UNIT	RELAY	1	E.C.		INTERLOCK WITH F-2,3	E.C.	M.C.		1
EX, EF	A-27	2-#12+1-#12GND	VERIFY	120V/1PH	VESTIBULE	INTERGRAL								HVAC CONTROLS	M.C.	M.C.		1
EW-1	A-47,49	2-#10+1-#10GND	4500 W	208V/1PH	110	MOTOR RATED SNAP SWITCH	1	E.C.	AT UNIT					PLUMBING CONTROLS	P.C.	P.C.		2
F-1	A-21	2-#12+1-#12GND	11.4 MCA	120V/1PH	110	MOTOR RATED SNAP SWITCH	1	E.C.	AT UNIT	INTEGRAL				HVAC CONTROLS	M.C.	M.C.		1
F-2	A-23	2-#12+1-#12GND	8 MCA	120V/1PH	110	MOTOR RATED SNAP SWITCH	1	E.C.	AT UNIT	INTEGRAL				INTERLOCK WITH F-1	M.C.	M.C.		1
F-3	A-25	2-#12+1-#12GND	7.8 MCA	120V/1PH	110	MOTOR RATED SNAP SWITCH	1	E.C.	AT UNIT	INTEGRAL				HVAC CONTROLS	M.C.	M.C.		1

1. SEE MECHANICAL SHEETS FOR LOCATION OF EQUIPMENT AND COORDINATION WORK.

2. SEE PLUMBING SHEETS FOR LOCATIONS OF EQUIPMENT AND COORDINATION OF WORK.

PANEL: A VOLTAGE: 208Y/120V-3P-4W MOUNTING: SURFACE FED FROM: 75 KVA TRANSFORMER IN GARAGE										BUS RATING: 225A MAIN: MLO		
TYP	DESCRIPTION	BRK	LOAD	NO.	PH A	PH B	PH C	NO.	LOAD	BRK	DESCRIPTION	TYP
N	LIGHTING OFFICE NORTH	20A	1000	1	1400			2	400	20A	EXISTING AUTOMATIC DOOR	N
N	LIGHTING OFFICE SOUTH	20A	1000	3		1540		4	540	20A	RECEPTACLES 102	R
N	EXTERIOR LIGHTING	20A	100	5			640	6	540	20A	RECEPTACLES 102	R
N	LOBBY AND EXTERIOR REC	20A	720	7	1440			8	720	20A	RECEPTACLES 102	R
N	AC-1	30A	1500	9		2220		10	720	20A	RECEPTACLES 103	R
N	AC-1	2P	1500	11			2220	12	720	20A	RECEPTACLES 103	R
N	AC-2	30A	1500	13	2580			14	1080	20A	RECEPTACLES 106	R
N	AC-2	2P	1500	15		2220		16	720	20A	RECEPTACLES 108	R
N	AC-3	25A	1400	17			2120	18	720	20A	RECEPTACLES 115	R
N	AC-3	2P	1400	19	2300			20	900	20A	RECEPTACLES 116	R
N	F-1	20A	1200	21		1920		22	720	20A	RECEPTACLES 111	R
N	F-2	15A	1000	23			1720	24	720	20A	RECEPTACLES 117	R
N	F-3	15A	1000	25	1540			26	540	20A	RECEPTACLES 110 & 112	R
N	EXISTING EF IN VESTIBULE	20A	1000	27		1360		28	360	20A	RECEPTACLES 118	R
N	EF-1, EF-2	20A	500	29			680	30	180	20A	RECEPTACLES 118	R
N	SPARE			31	4000			32	4000	50A	ELECTRIC RANGE	N
N	DISPOSAL	20A	500	33		4500		34	4000	2P	ELECTRIC RANGE	N
N	COPPER	20A	1000	35			1180	36	180	20A	RECEPTACLES 118	R
N	SPARE	20A	37	180			38	180	20A	RECEPTACLES 118	R	
N	SPARE	20A	39			180		40	180	20A	RECEPTACLES 118	R
N	REFRIGERATOR *GF BRK	20A	1000	41			1180	42	180	20A	RECEPTACLES 118	R
PANEL: A (SECTION 2)												
TYP	DESCRIPTION	BRK	LOAD	NO.	PH A	PH B	PH C	NO.	LOAD	BRK	DESCRIPTION	TYP
N	SPARE	20A		43	360			44	360	20A	DATA RACK RECEPTACLE	R
N	SPARE	20A		45		360		46	360	20A	DATA RACK RECEPTACLE	R
N	EVH	30A	2250	47			2250	48		20A	SPARE	
N	EVH	2P	2250	49	2250			50		20A	SPARE	
N	DMCP-1	15A	50	51		50		52		20A	SPARE	
N	SPARE	20A		53			0	54		20A	SPARE	
N	SPARE	20A		55	0			56		20A	SPARE	
N	SPARE	20A		57	0			58		20A	SPARE	
N	SPACE ONLY			59				60			SPACE ONLY	
N	SPACE ONLY			61				62			SPACE ONLY	
N	SPACE ONLY			63		0		64			SPACE ONLY	
N	SPACE ONLY			65			0	66			SPACE ONLY	
N	SPACE ONLY			67	0			68			SPACE ONLY	
N	SPACE ONLY			69		0		70			SPACE ONLY	
N	SPACE ONLY			71			0	72			SPACE ONLY	
N	SPACE ONLY			73	0			74			SPACE ONLY	
N	SPACE ONLY			75		0		76			SPACE ONLY	
N	SPACE ONLY			77			0	78			SPACE ONLY	
N	SPACE ONLY			79	0			80			SPACE ONLY	
N	SPACE ONLY			81		0		82			SPACE ONLY	
N	SPACE ONLY			83			0	84			SPACE ONLY	
*					0	0	0	M - MEASURED/COULATED LOAD				
*					0	0	0	D - DELETED LOAD				
*					0	0	0	V - SUBSEQUENT ADDED LOAD				
*	BUS TOTALS (KVA)				0	0	0	C - CONTINUOUS LOAD (*125%)				
*	CONNECTED	42.4			0	0	0	LM - LARGEST MOTOR LOAD (*125%)				
*	DEMAND	42.1			0	0	0	M - MOTOR LOAD				
*					12270	10750	8750	N - NON-CONTINUOUS LOAD				
*	BUS TOTALS (AMPS)				3590	3050	3240	R - RECEPTACLE DEMAND (100% 10KVA, 50% OF REMAINING)				
*	CONNECTED	117.7			0	0	0	K - KITCHEN LOAD (65% OF LOAD)				
*	DEMAND	116.9			15860	14250	11990	TOTAL DEMAND PER PHASE (VA)				



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# ELECTRICAL REMODEL FLOOR PLAN POWER

REVISIONS:	
NO.	DATE

ISSUE DATE:  
DECEMBER 16, 2025

E301