

Revisions:

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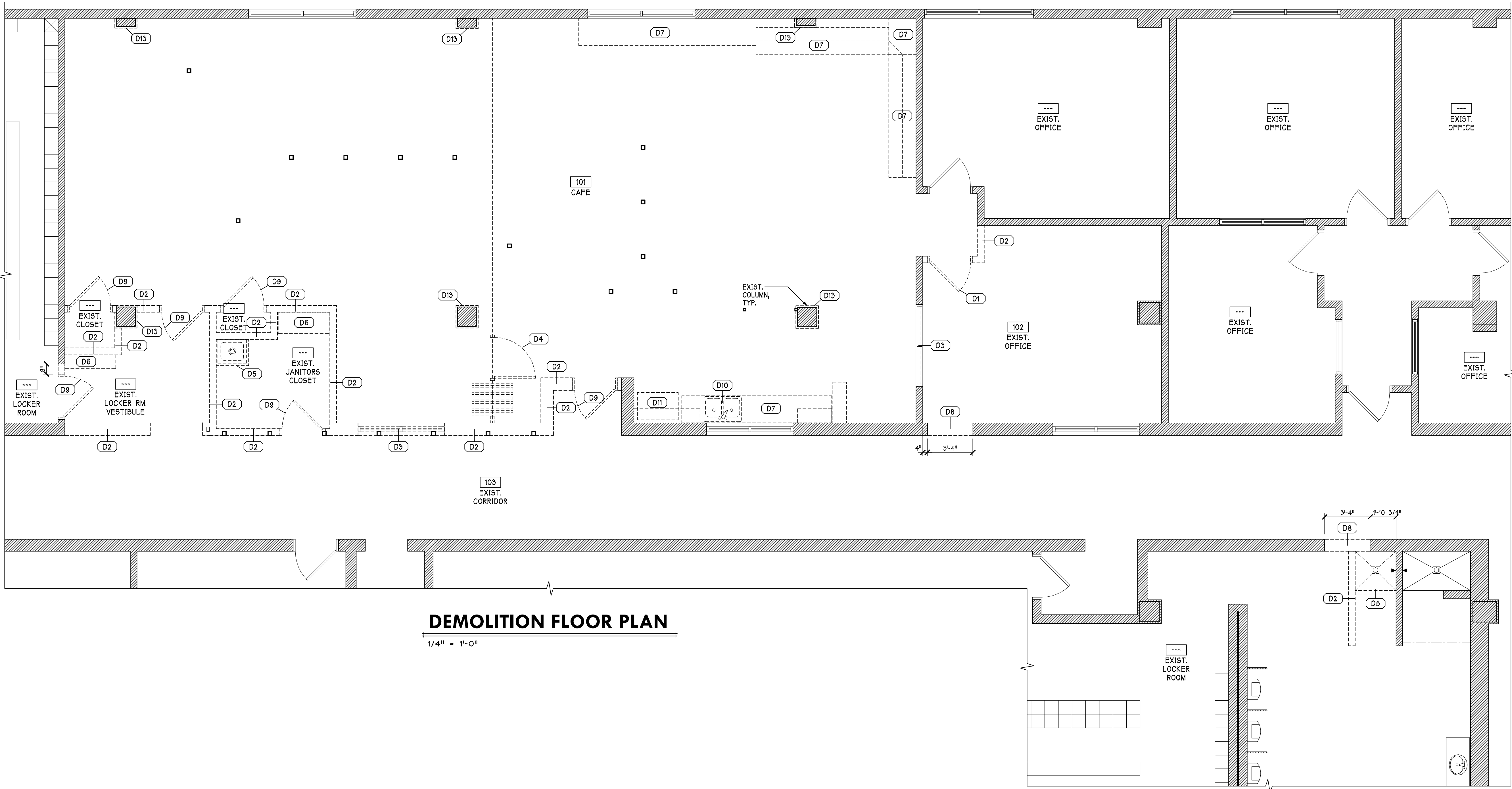
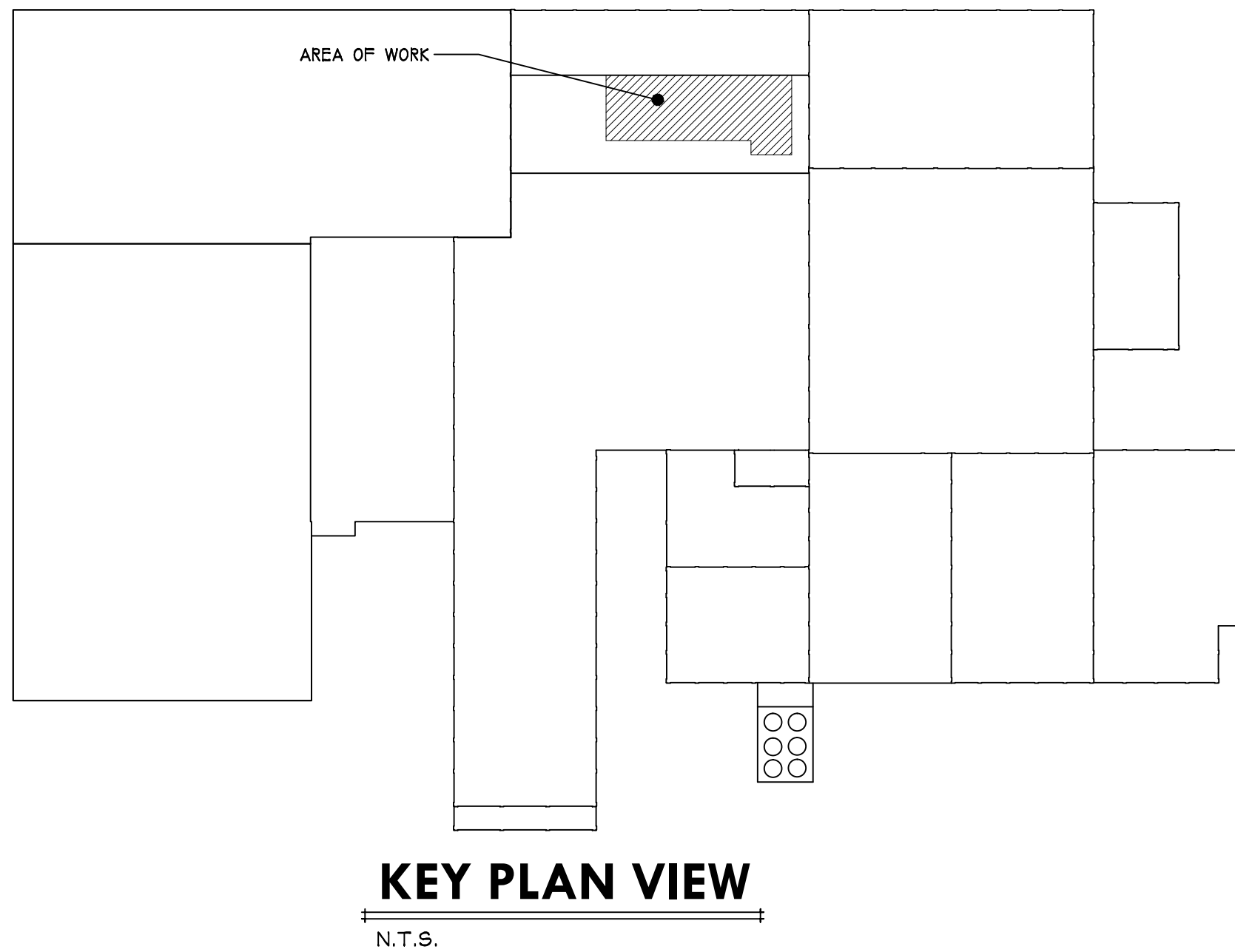
No: Date:

DEMOLITION SCHEDULE

TYPE	DESCRIPTION
D1	REMOVE EXIST. DOOR & FRAME
D2	REMOVE EXIST. WALL
D3	REMOVE EXIST. WINDOW
D4	REMOVE EXIST. PARTITION WALL, DOOR, AND TRACK
D5	REMOVE EXIST. MOP SINK
D6	REMOVE EXIST. SHELVING
D7	REMOVE EXIST. MILLWORK
D8	DEMO. EXIST. WALL AT RELOCATED DOOR LOCATION. PATCH & REPAIR ADJACENT WALLS.
D9	REMOVE EXIST. DOOR & FRAME. SAVE FOR RELOCATION.
D10	REMOVE EXIST. SINK
D11	REMOVE EXIST. REFRIGERATOR.
D12	REMOVE EXIST. ACT CEILING TILE.
D13	REMOVE EXIST. GYP. BD & FINISHES TO EXPOSE EXIST. CONC. COLUMN. PATCH & PREPARE FOR NEW PAINT.
D14	REMOVE EXIST. SHOWER.

DEMOLITION GENERAL NOTES:

- OWNER RESERVES SALVAGE RIGHTS TO ANY CONSTRUCTION TO BE DEMOLISHED. ITEMS REJECTED BY THE OWNER SHALL BECOME THE REMOVING CONTRACTOR'S PROPERTY. CONTRACTOR IS TO DISPOSE OF DEMOLISHED CONSTRUCTION OFF SITE. COORDINATE ALL DEMOLITION WORK WITH OWNER.
- MAINTAIN STRUCTURAL INTEGRITY OF REMAINING BUILDING AT ALL TIMES DURING DEMOLITION.
- MAINTAIN BUILDING IN A WEATHER TIGHT CONDITION AT ALL TIMES DURING DEMOLITION.
- SEE PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- TAKE ALL PRECAUTIONS NECESSARY TO MAINTAIN SECURITY OF THE OWNERS NORMAL OPERATIONS DURING DEMOLITION.



PROGRESS PRINT NOT FOR CONSTRUCTION (09/20/18)

Martin's Famous Pastry Shoppe  
Transportation Cafe

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Drawing Title:  
DEMOLITION  
FLOOR PLAN

Sheet No.

A001

Date: MM/DD/YY

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Chambersburg, Pennsylvania 17202

Revisions:

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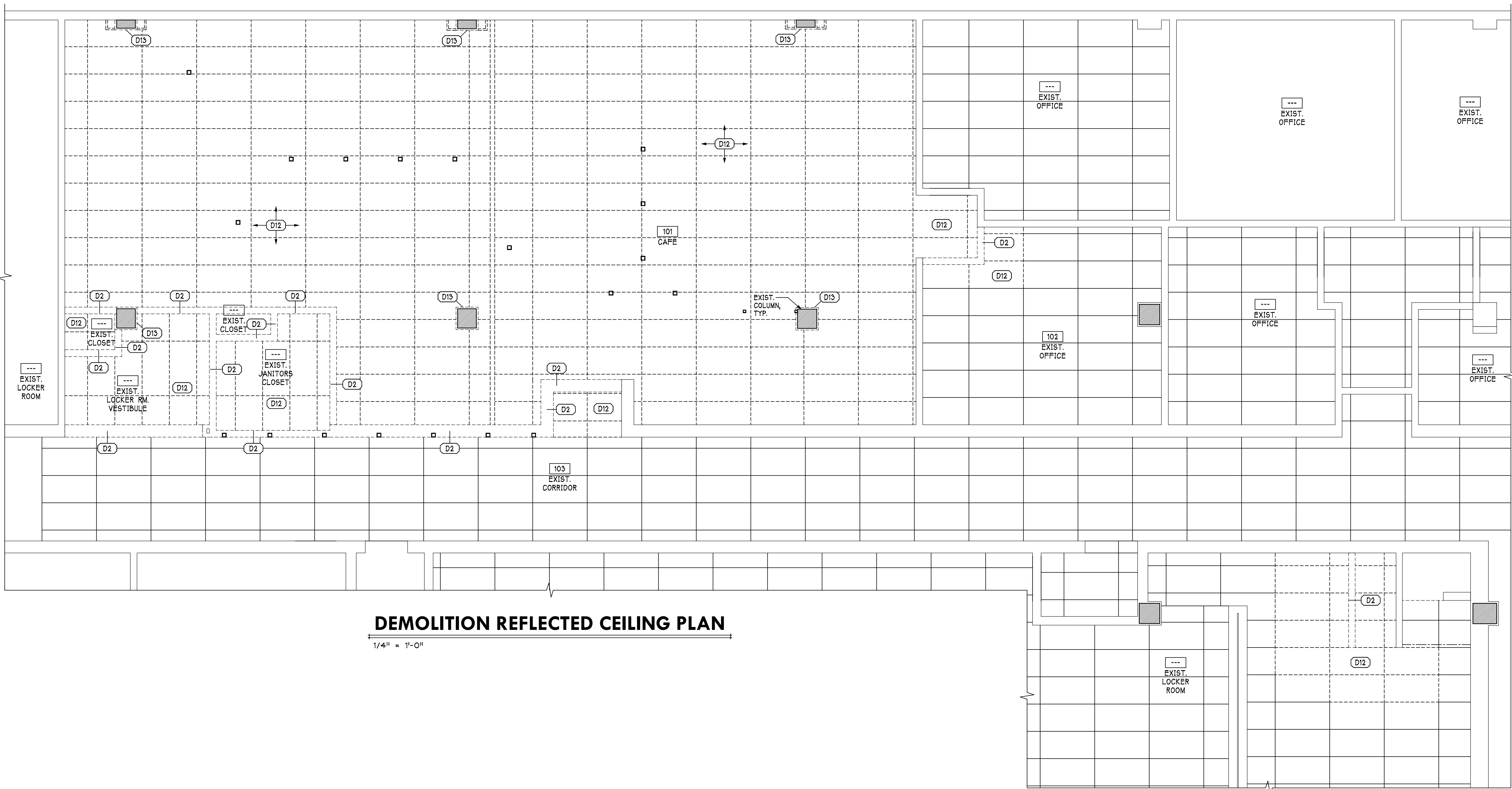
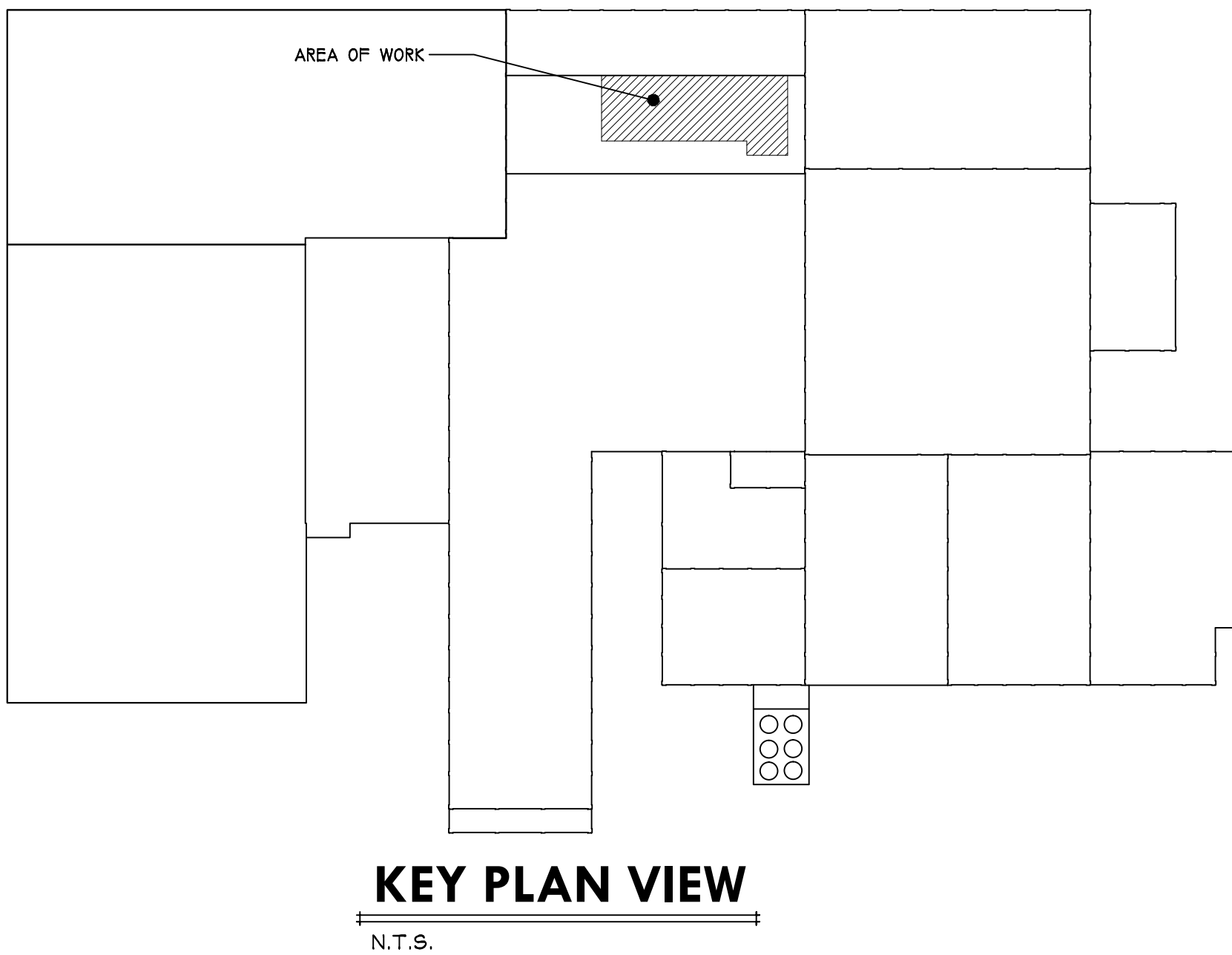
No: Date:

DEMOLITION SCHEDULE

TYPE	DESCRIPTION
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D2	REMOVE EXIST. WALL
D3	REMOVE EXIST. WINDOW
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D14	REMOVE EXIST. SHOWER.

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- TAKE ALL PRECAUTIONS NECESSARY TO MAINTAIN SECURITY OF THE OWNERS NORMAL OPERATIONS DURING DEMOLITION.



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Drawing Title:  
DEMOLITION  
REFLECTED  
CEILING PLAN

Sheet No.

A002

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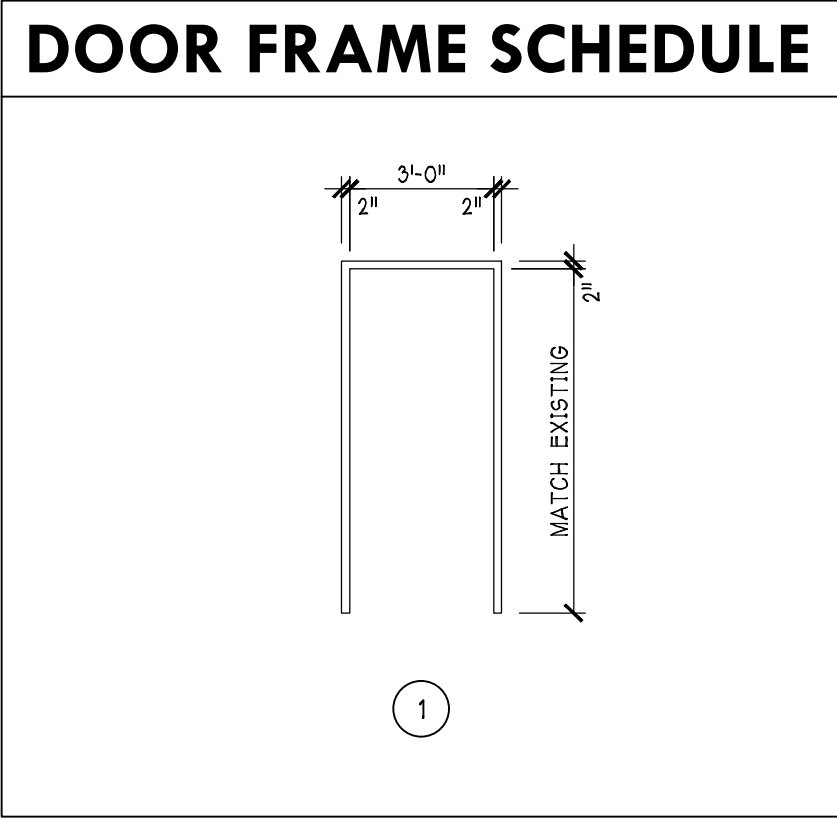
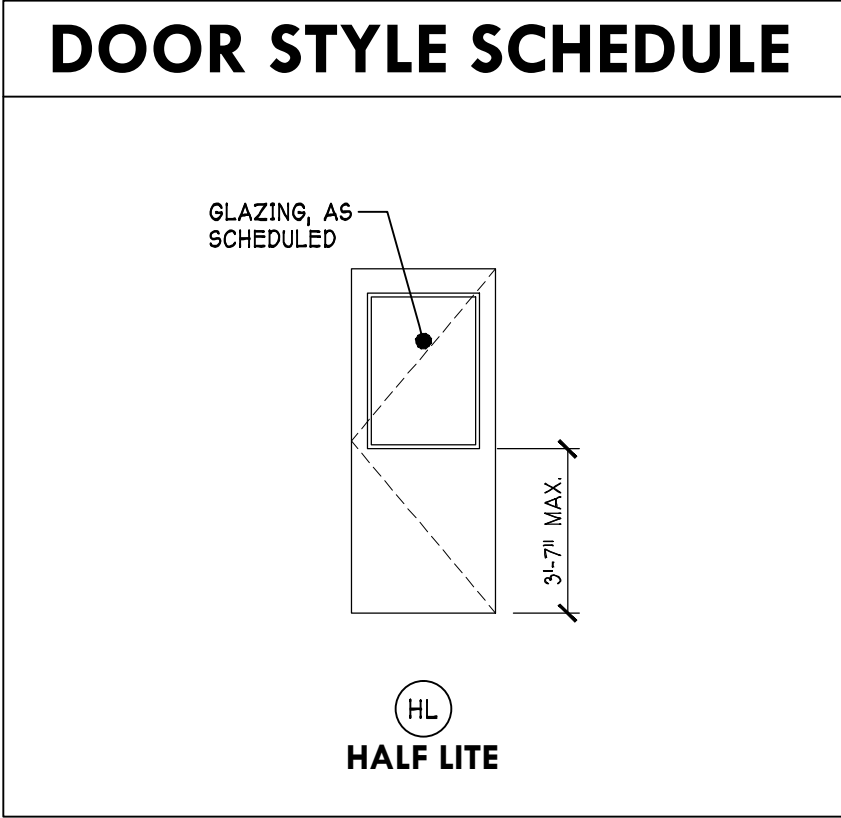
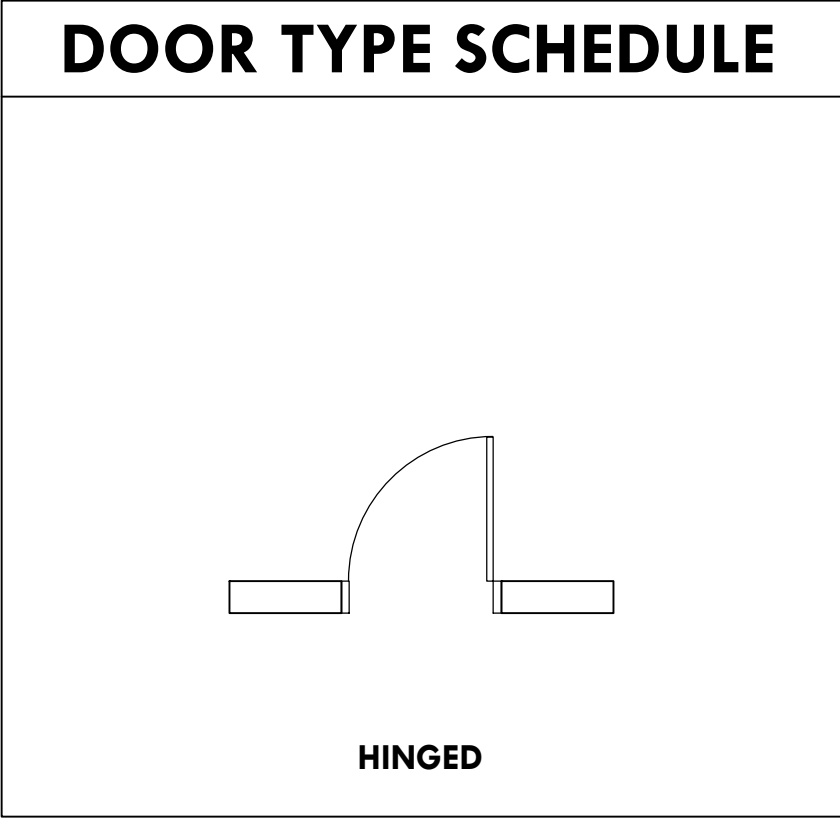
Chambersburg, Pennsylvania 17202

ROOM FINISH SCHEDULE																
ROOM		FLOOR		WALLS								CEILING			REMARKS	
NO.	DESCRIPTION	MAT.	BASE	NORTH		EAST		SOUTH		WEST		MAT.	FIN.	HT.		
101	CAFE	EXIST.	VINYL	EXIST.	PTD.	EXIST.	PTD.	EXIST.	PTD.	EXIST.	PTD.	SACT	--	7'-9"	--	
102	EXIST. OFFICE	EXIST.	VINYL	EXIST.	PTD.	EXIST.	PTD.	EXIST.	PTD.	EXIST.	PTD.	SACT	--	EXIST.	--	
103	EXIST. CORRIDOR	EXIST.	VINYL	EXIST.	PTD.	EXIST.	PTD.	EXIST.	PTD.	EXIST.	PTD.	SACT	--	EXIST.	--	
104	LOCKER ROOM EGRESS	VCT	VINYL	GWB	PTD.	GWB	PTD.	GWB	PTD.	EXIST.	PTD.	SACT	--	7'-9"	--	
106	JANITORS CLOSET	VCT	VINYL	EXIST.	FRP	EXIST.	FRP	GWB	FRP	GWB	FRP	SACT	--	7'-9"	--	

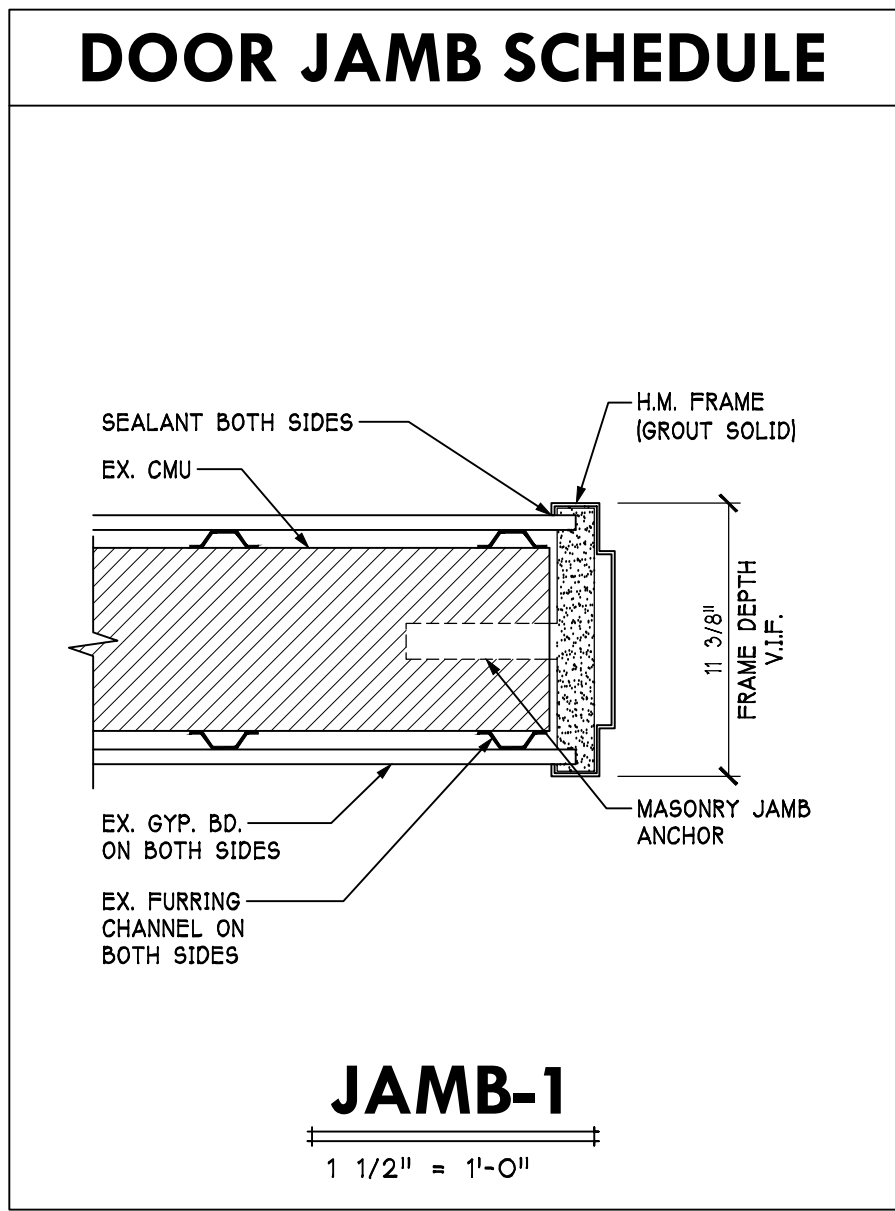
DOOR AND FRAME SCHEDULE																
DOOR												FRAME			REMARKS	
NO.	TYPE	STYLE	SIZE	THK.	MAT.	FIN.	GLAZING	RATING	HDWR.	SILL	JAMB	TYPE	MAT.	FIN.		
102	HINGED	HL	3'-0" x 7'-0"	1 3/4"	H.M.	PTD.	G2	--	--	--	--	1	H.M.	PTD.	RELOCATED DOOR	
104A	HINGED	F	3'-0" x 7'-0"	1 3/4"	H.M.	PTD.	--	--	--	--	1	1	H.M.	PTD.	--	
104B	HINGED	F	3'-0" x 7'-0"	1 3/4"	H.M.	PTD.	--	--	--	--	1	1	H.M.	PTD.	RELOCATED DOOR	
106	HINGED	F	3'-0" x 7'-0"	1 3/4"	H.M.	PTD.	--	--	--	--	--	1	H.M.	PTD.	--	

ABBREVIATIONS	
ABBR.	DEFINITION
EXIST.	EXISTING
GWB	GYPSUM WALL BOARD
H.M.	HOLLOW METAL
PTD.	PAINTED
FRP	FIBER REINFORCED PLASTIC PANEL

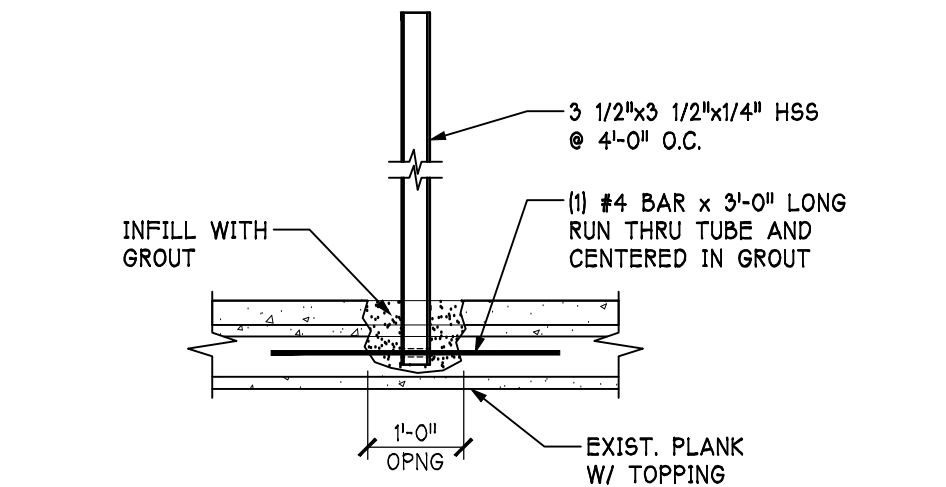
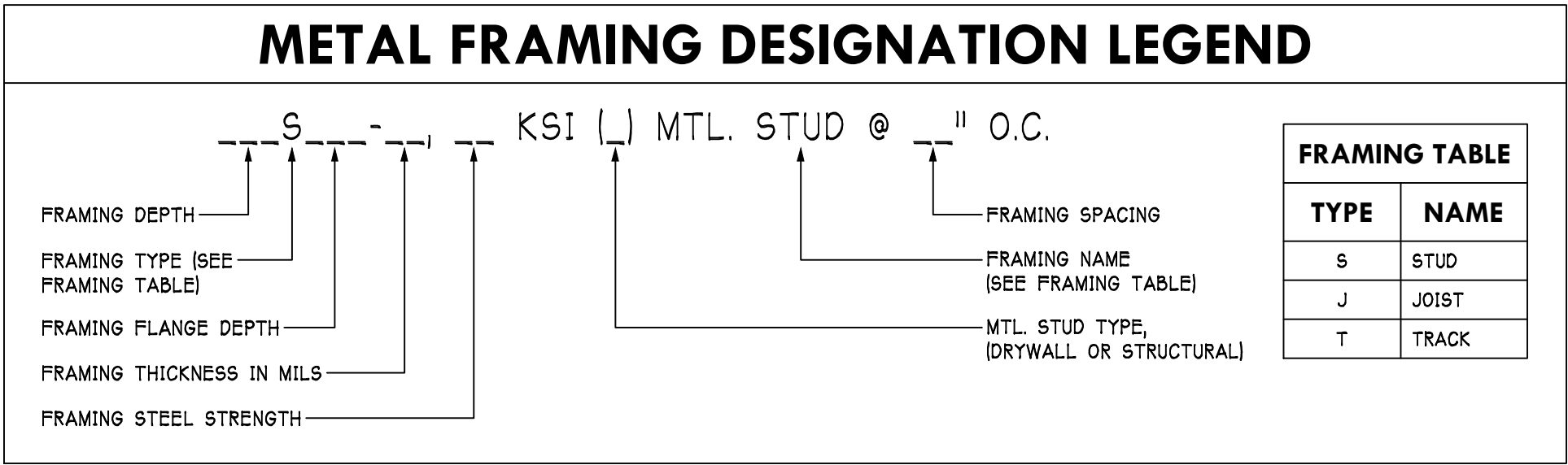
GLAZING SCHEDULE	
ABBR.	DEFINITION
G2	1/4" TEMPERED SAFETY GLASS-LAMINATED



ROOM FINISH SCHEDULE NOTES	
1.	SEE FLOOR FINISH PLANS FOR LOCATION OF FLOOR FINISHES.
2.	SEE INTERIOR ELEVATIONS FOR LOCATION OF WALL FINISHES.
3.	SEE REFLECTED CEILING PLANS FOR CEILING/BULKHEAD INFORMATION.



PARTITION TYPE SCHEDULE			
TYPE	CONSTRUCTION	REMARKS	RATINGS
PA1	2505162-33, 33 KSI (DRYWALL) MTL. STUDS @ 16" O.C. W/ 5/8" TYPE 'X' GYP. BD. ON BOTH SIDES	---	---
PB1	36255125-33, 33 KSI (DRYWALL) MTL. STUDS @ 16" O.C. W/ 5/8" TYPE 'X' GYP. BD. ON BOTH SIDES	USE CEMENT BD. IN LIEU OF TYPE 'X' GYP. BD. WHERE CERAMIC TILE OCCURS.	---
PB2	36255125-33, 33 KSI (DRYWALL) MTL. STUDS @ 16" O.C. W/ 5/8" TYPE 'X' GYP. BD. ON ONE SIDE	USE CEMENT BD. IN LIEU OF TYPE 'X' GYP. BD. WHERE CERAMIC TILE OCCURS.	---
PC1	MATCH EXISTING ADJACENT WALL CONSTRUCTION W/ METAL STUD FRAMING @ 16" O.C.	---	---



ARCHITECTURAL GENERAL NOTES:

EACH CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS TOLERANCES, CONSTRUCTION CONDITIONS, ETC. AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK.

ALL DIMENSIONS GIVEN TO FACE OF FRAMING, FACE OF MASONRY, CENTERLINE OF STEEL, CENTERLINE OF DOORS, OR CENTERLINE OF WINDOWS UNLESS NOTED OTHERWISE.

THIS BUILDING AND ALL SITE WORK PERTAINING TO IT IS TO BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE 2008 ASCE 1017.1 AND THE 2010 AMERICANS WITH DISABILITIES ACT (ADA).

WITHIN FRAME CONSTRUCTION, ALL NEW DOOR LOCATIONS SHOWN ON DRAWINGS ARE SET 4" FROM FACE OF WALL FRAMING TO BACK OF DOOR JAMB UNLESS OTHERWISE NOTED.

WITHIN MASONRY CONSTRUCTION, ALL NEW DOOR LOCATIONS SHOWN ON DRAWINGS ARE SET 4" FROM FACE OF MASONRY TO BACK OF DOOR JAMB UNLESS OTHERWISE NOTED.

PROVIDE FIRE EXTINGUISHERS AS SHOWN ON THE DRAWINGS. FIRE EXTINGUISHER TO BE MOUNTED 36" TO THE TOP OF THE EXTINGUISHER.

ALL FIRE RATED WALLS, FLOORS & ROOF TO BE FIRE STOPPED WITH UL APPROVED FIRE STOP ASSEMBLIES. SEE SPECIFICATIONS.

SEE LARGE SCALE UNIT PLANS FOR WINDOW LOCATION DIMENSIONS.

ALL 7 5/8" WALLS ARE 8" CMU.

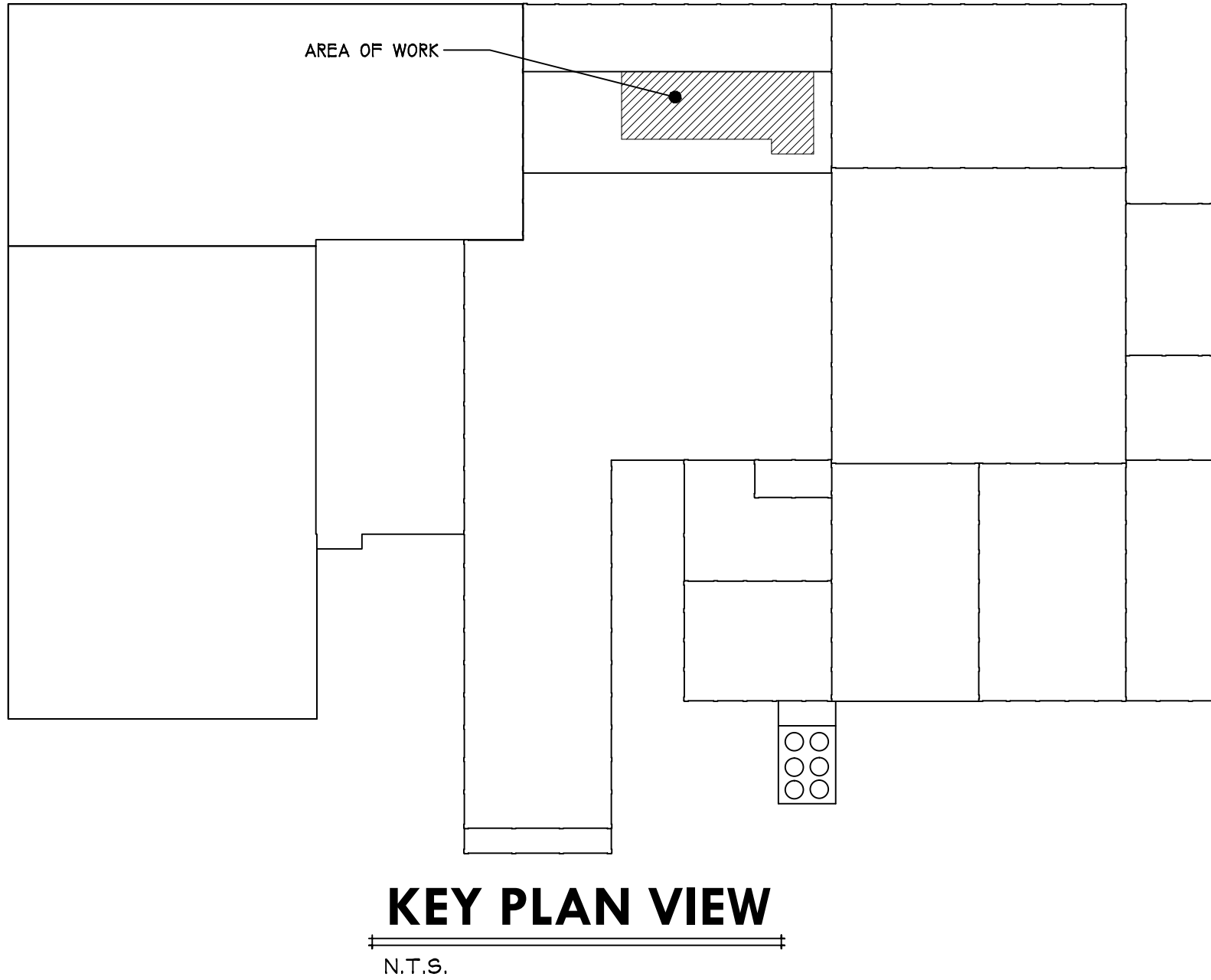
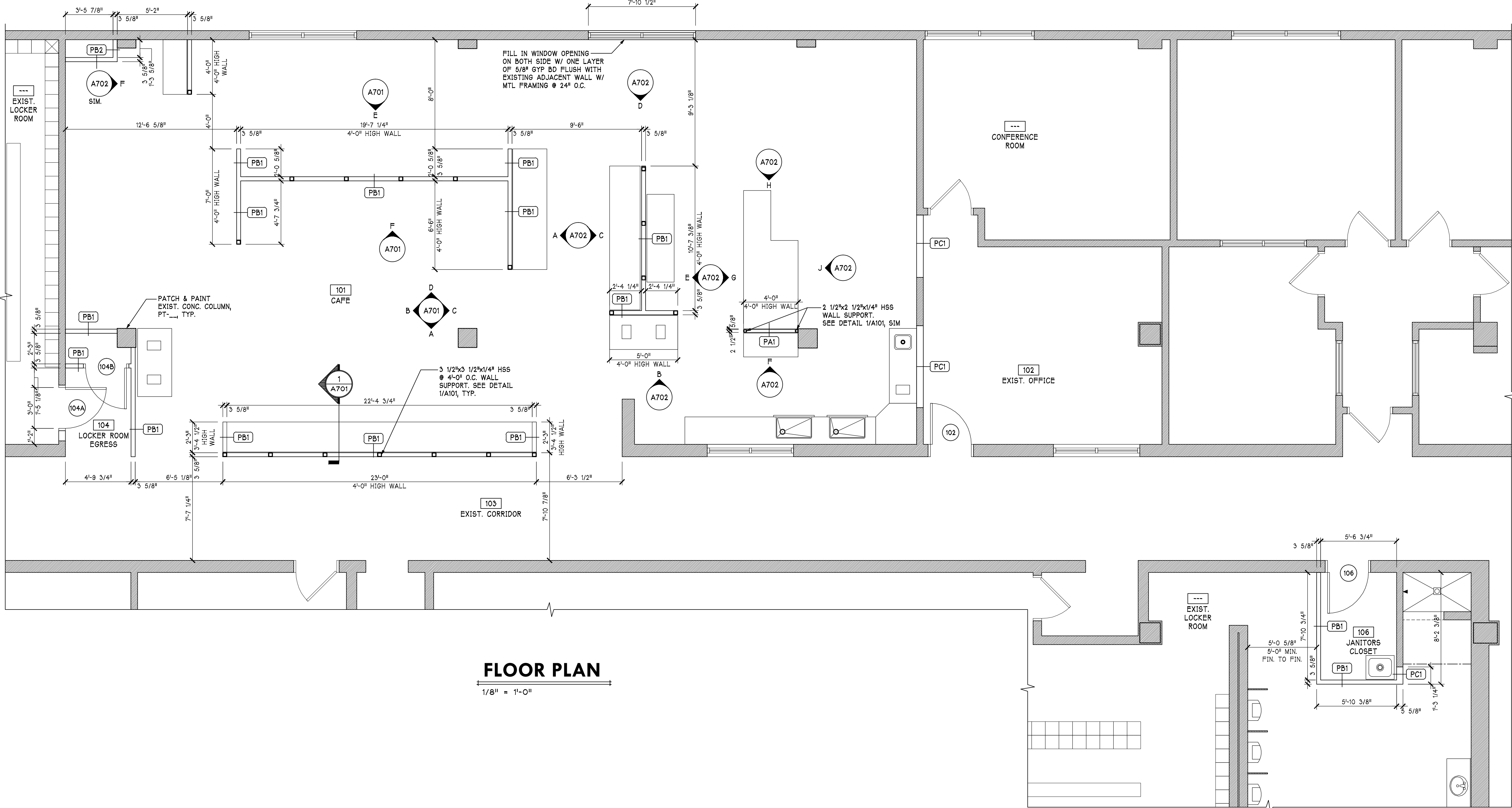
ALL 11 5/8" WALLS ARE 12" CMU.

VERIFY AND COORDINATE NEW CONSTRUCTION F.F. ELEVATION WITH EXISTING BUILDING F.F. ELEVATION.

MAINTAIN BUILDING IN A WEATHER TIGHT CONDITION AT ALL TIMES DURING CONSTRUCTION.

TAKE ALL PRECAUTIONS NECESSARY TO MAINTAIN SECURITY OF THE OWNERS NORMAL OPERATIONS DURING CONSTRUCTION.

ALL PATCH AND REPAIR WORK SHALL BE PERFORMED IN A WORKMAN-LIKE MANNER BY EXPERIENCED TRADESMEN. SURFACE TEXTURE AND FINISH TO MATCH EXISTING ADJOINING CONDITION.



PROGRESS PRINT NOT FOR CONSTRUCTION (09/20/18)

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Revisions:  
No: Date:

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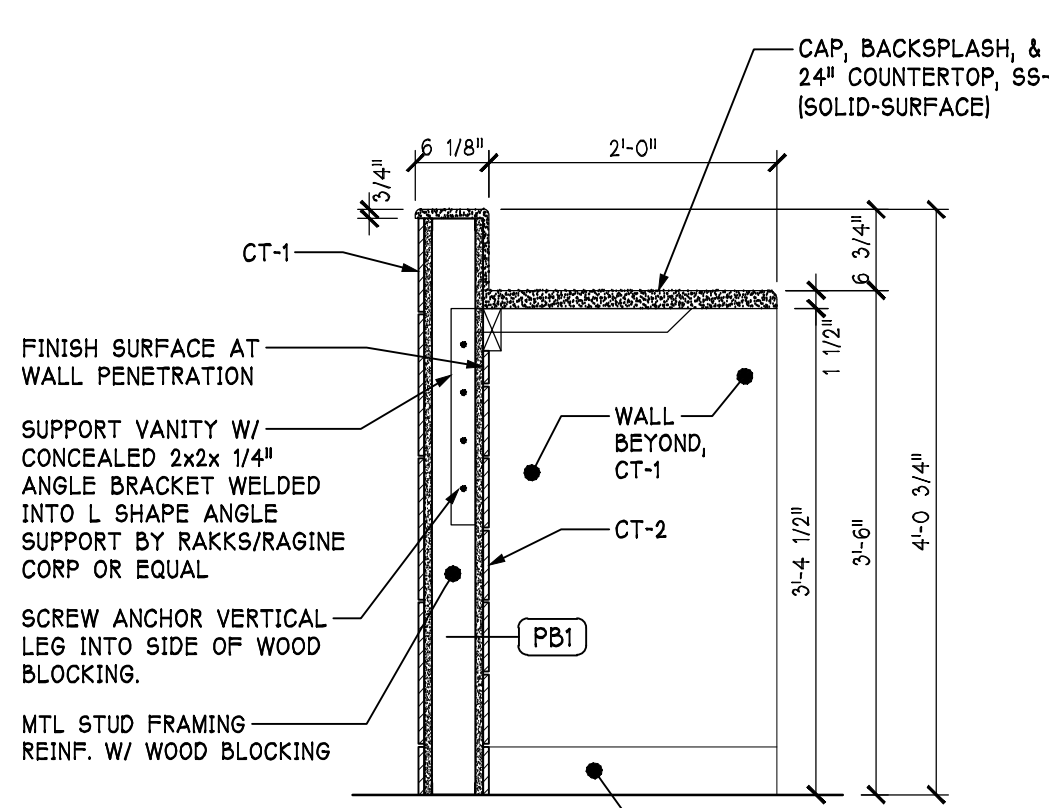
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Transportation Cafe

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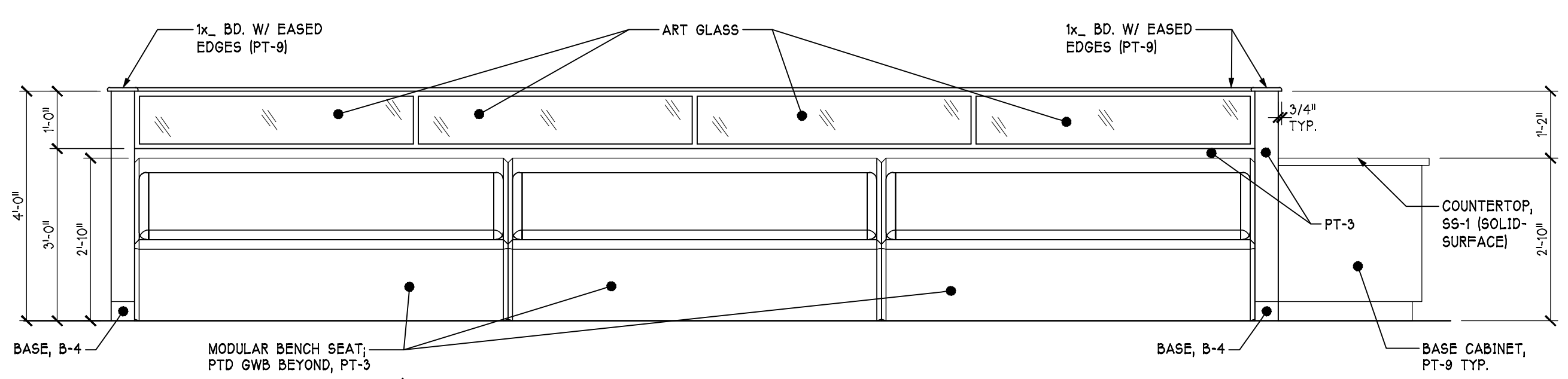
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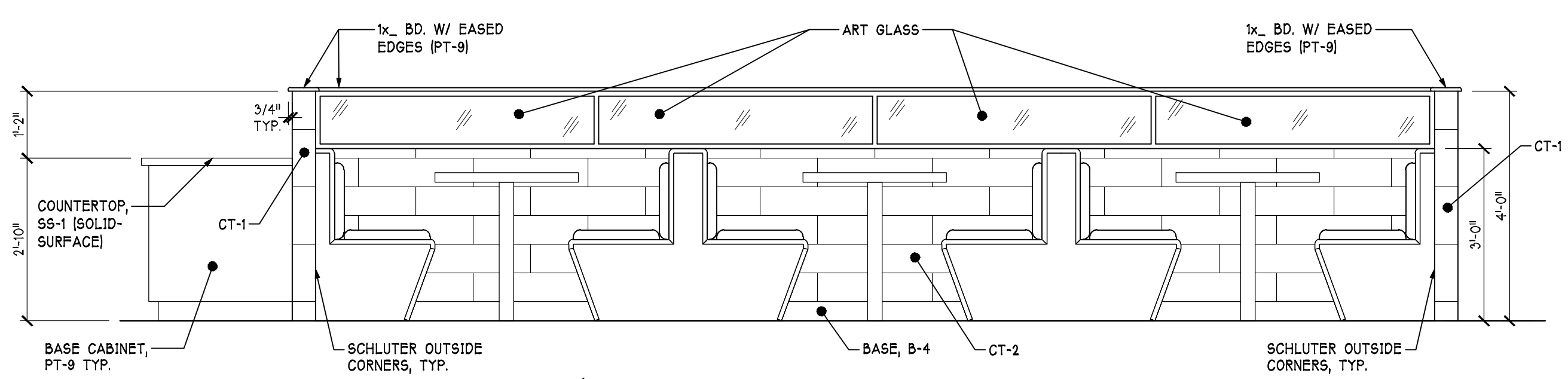
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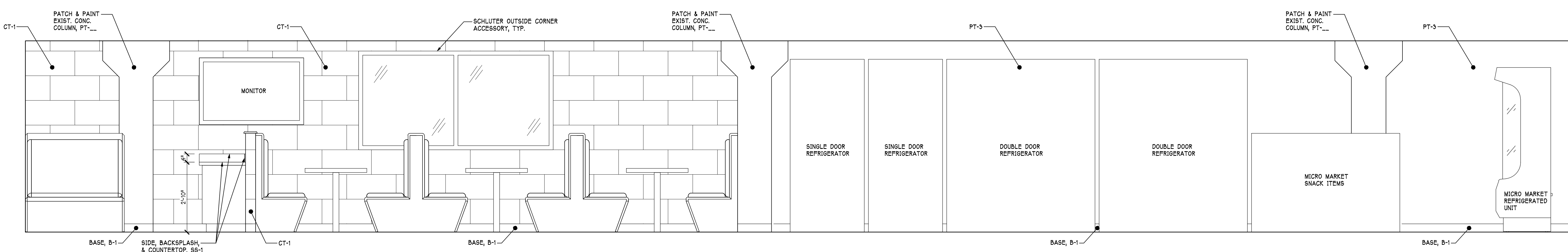
PERCH COUNTER DETAIL



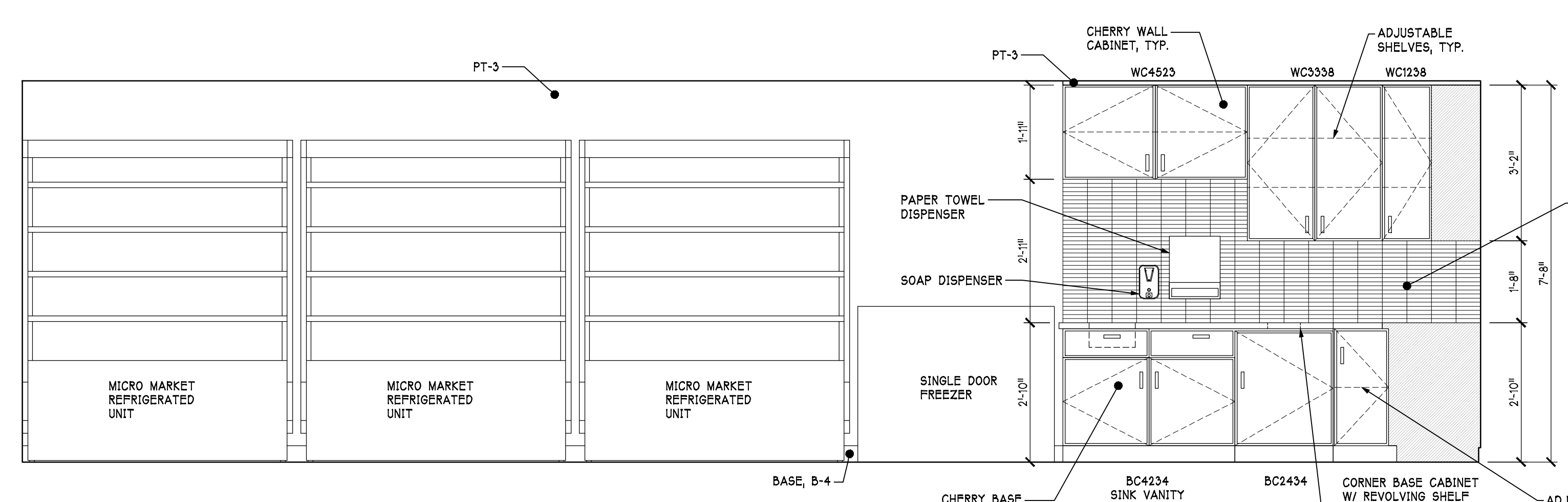
LOW WALL SEATING AREA



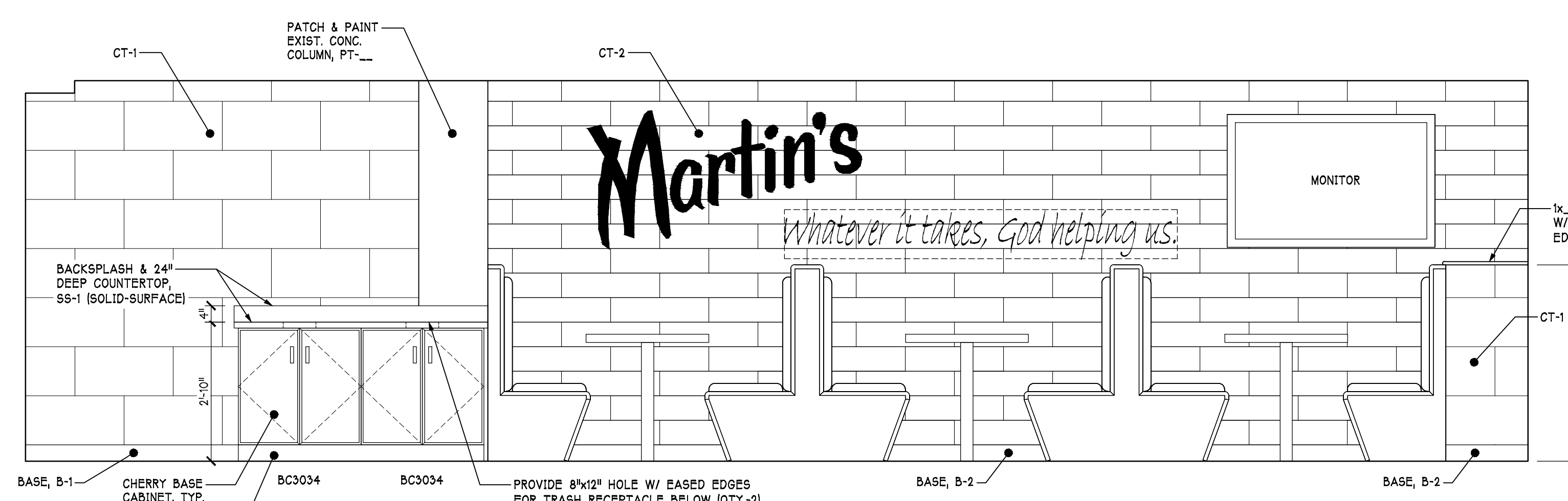
LOW WALL SEATING AREA



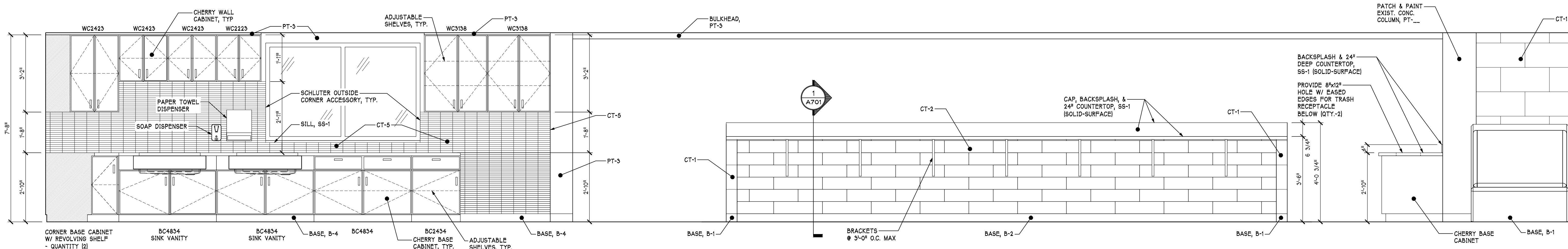
SOUTH WALL ELEVATION



WEST WALL ELEVATION



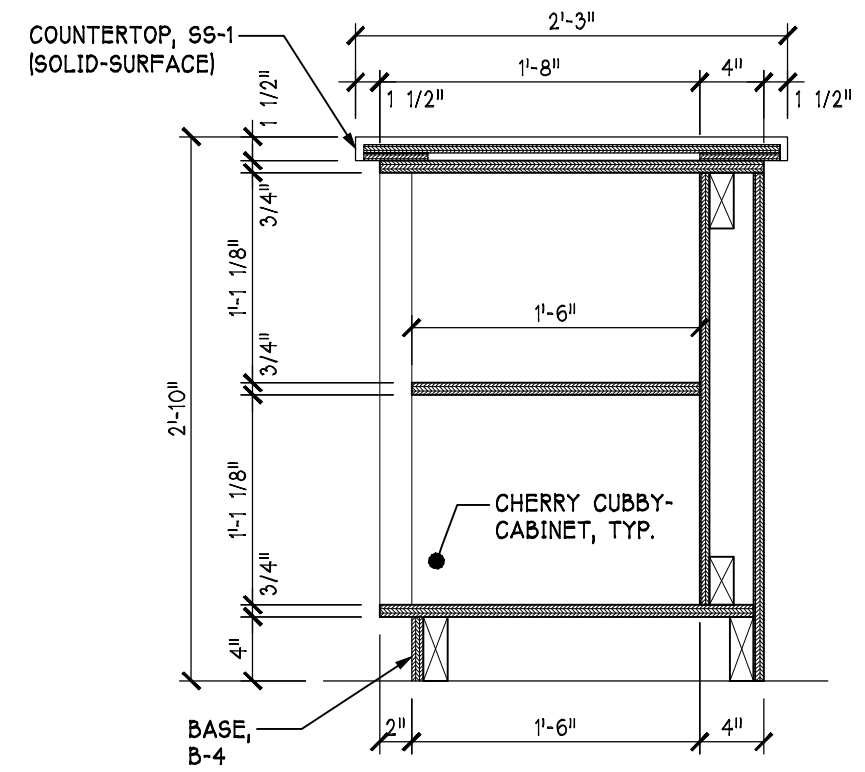
EAST WALL ELEVATION



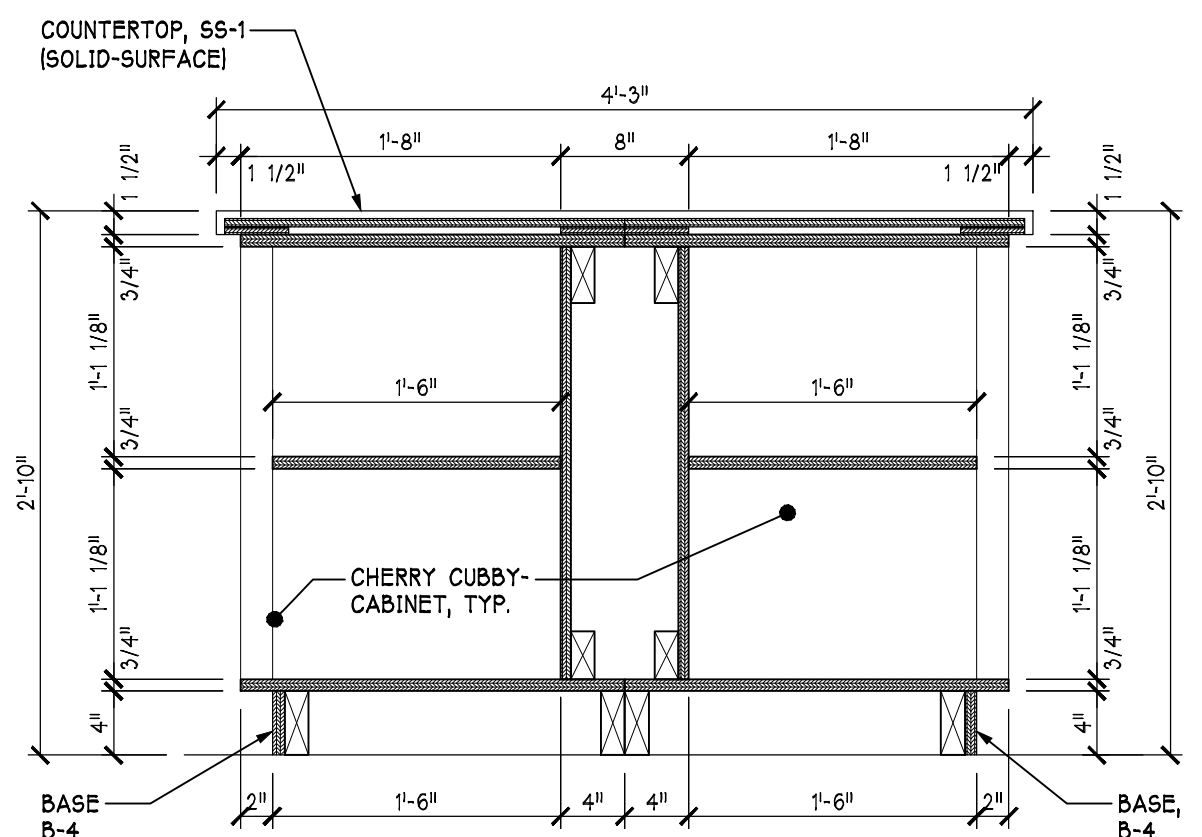
NORTH WALL ELEVATION



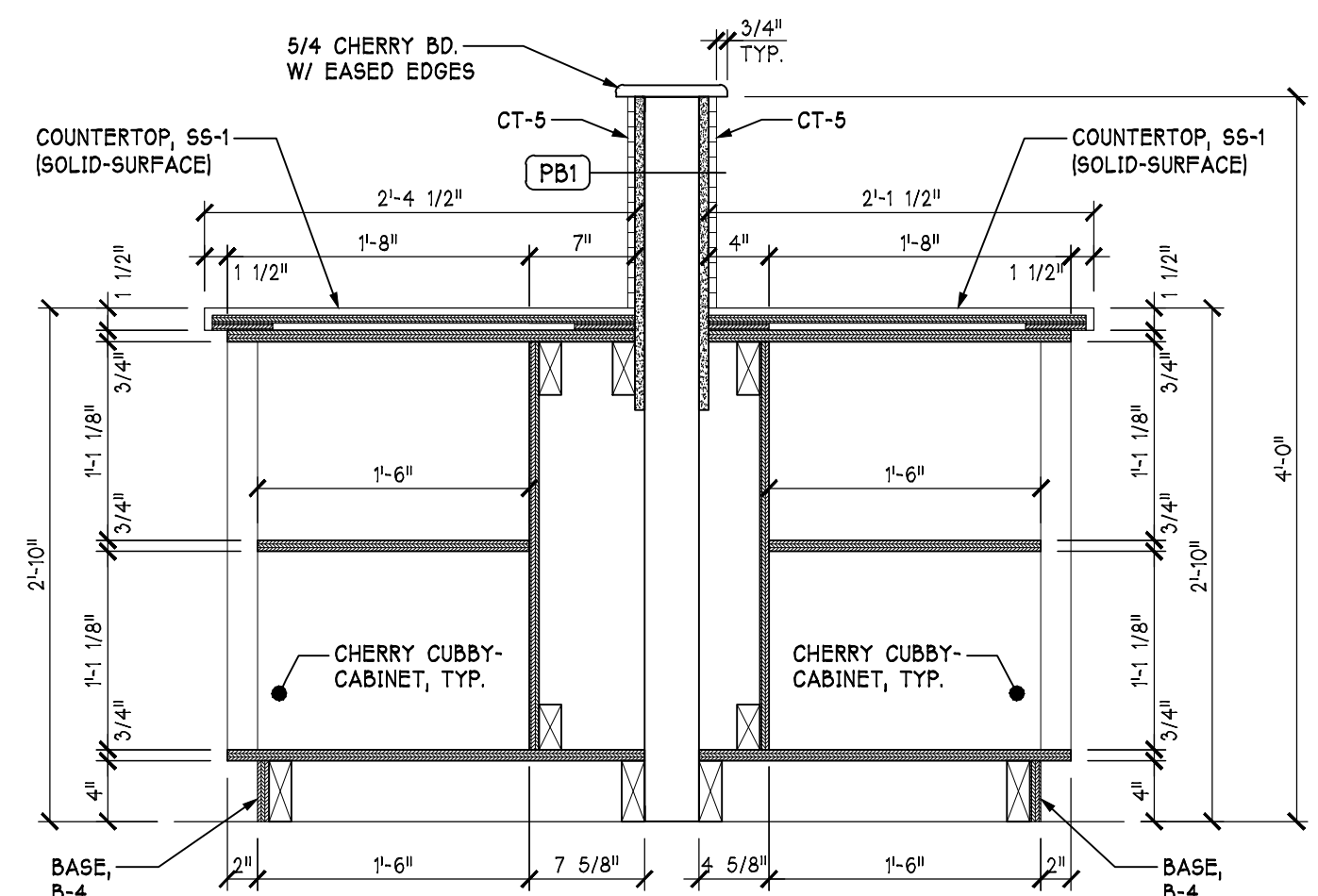
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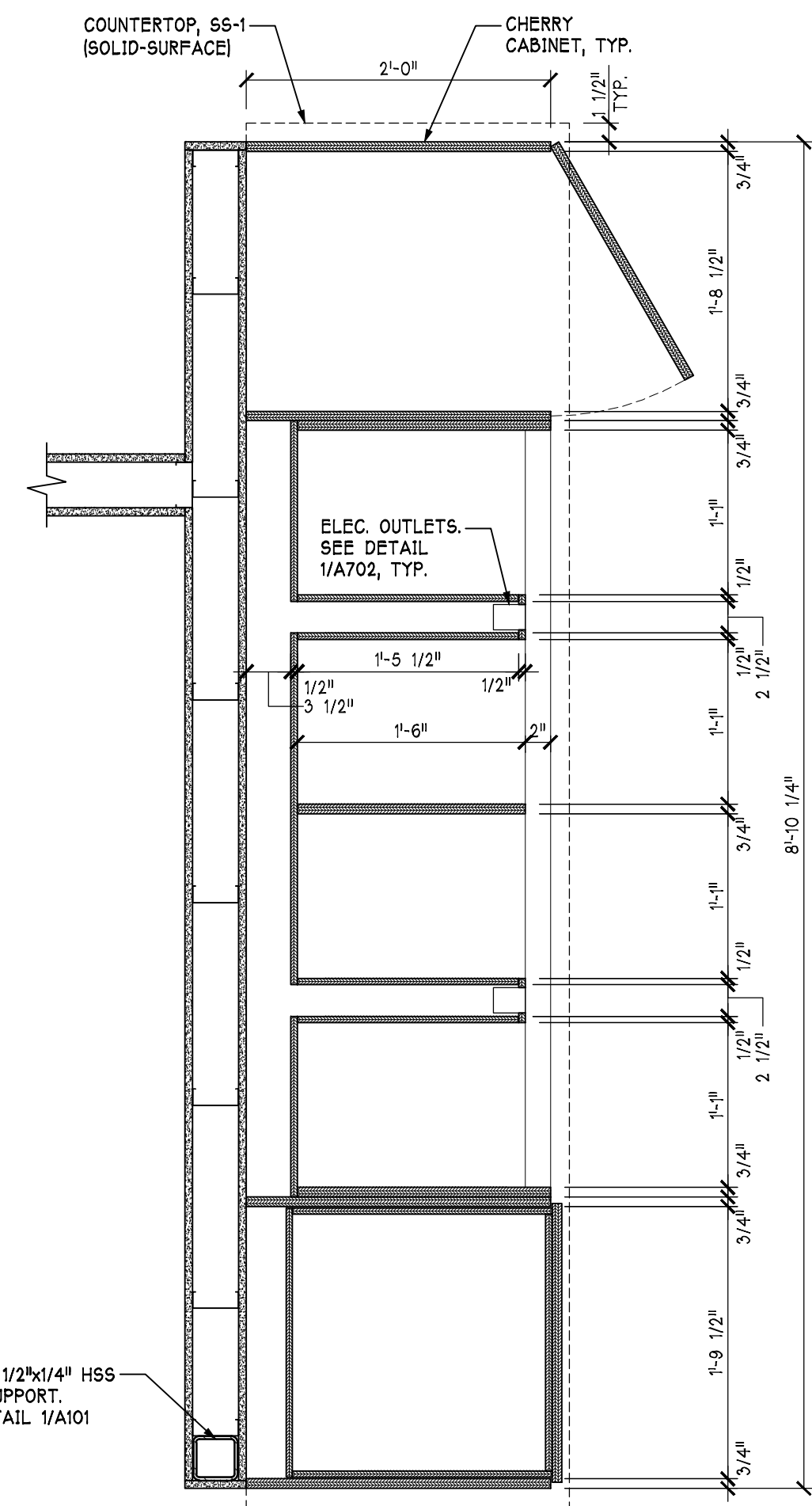
5 CUBBY-CABINET SECTION  
A702 1" = 1'-0"



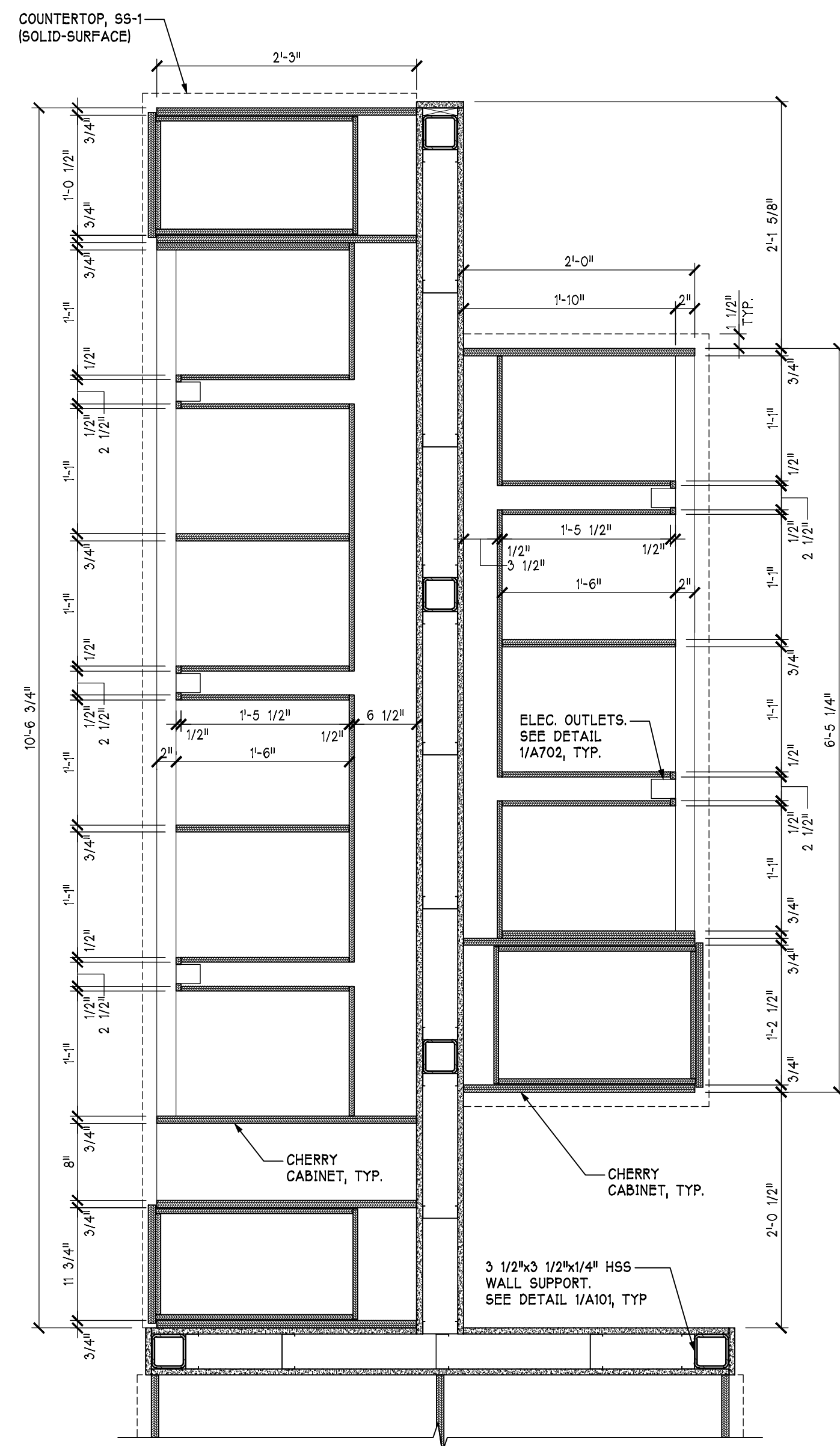
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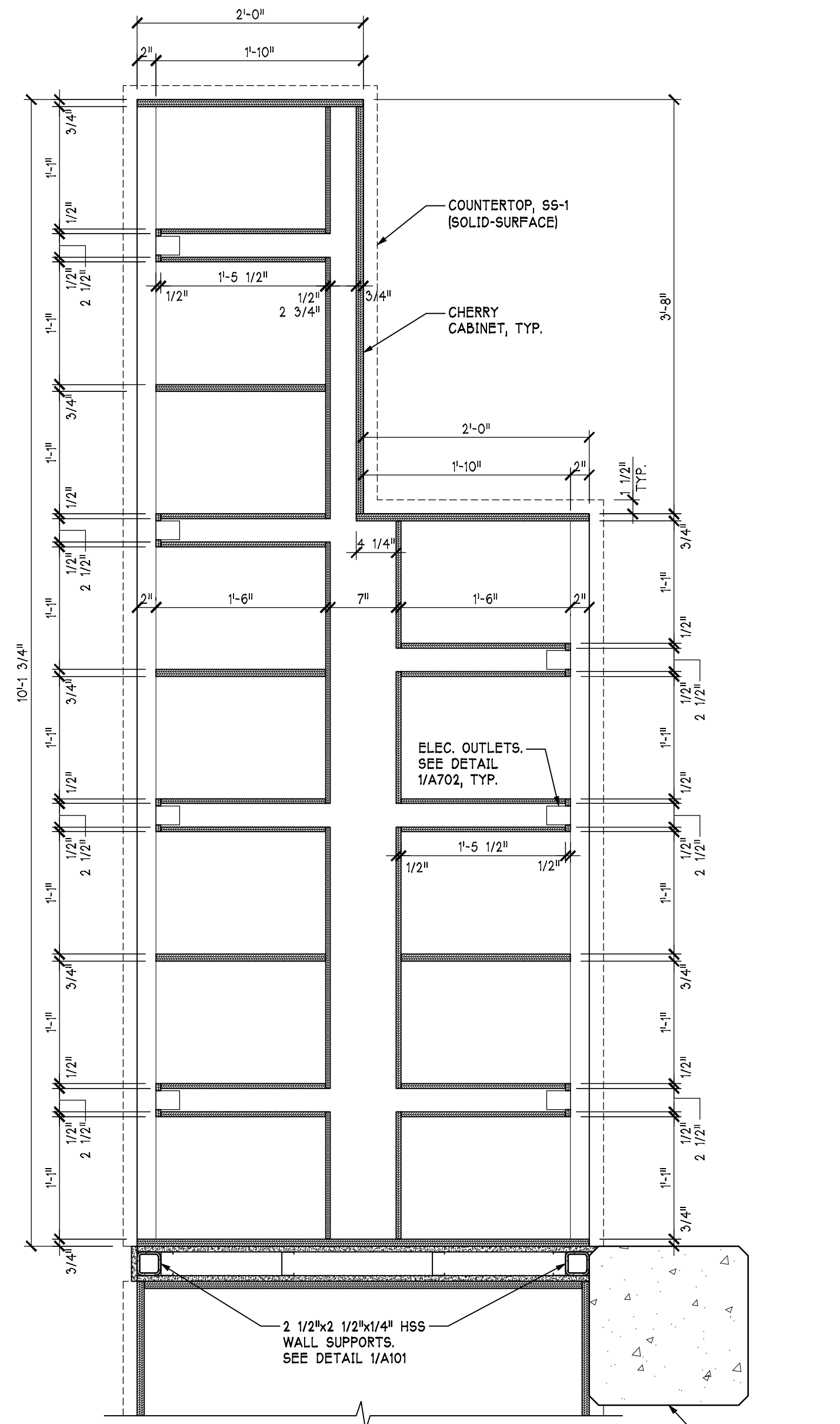
3 CUBBY-CABINET SECTION  
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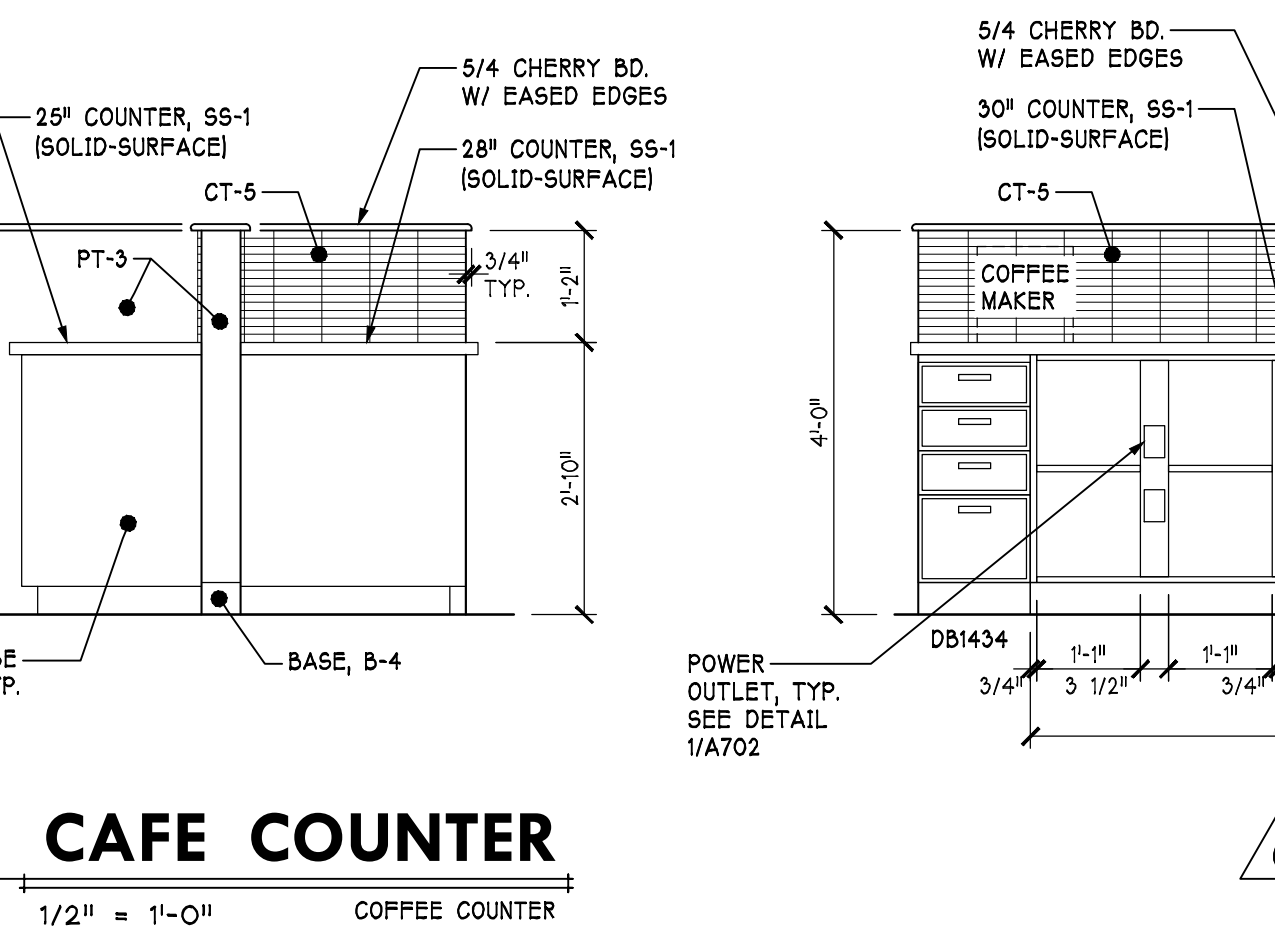
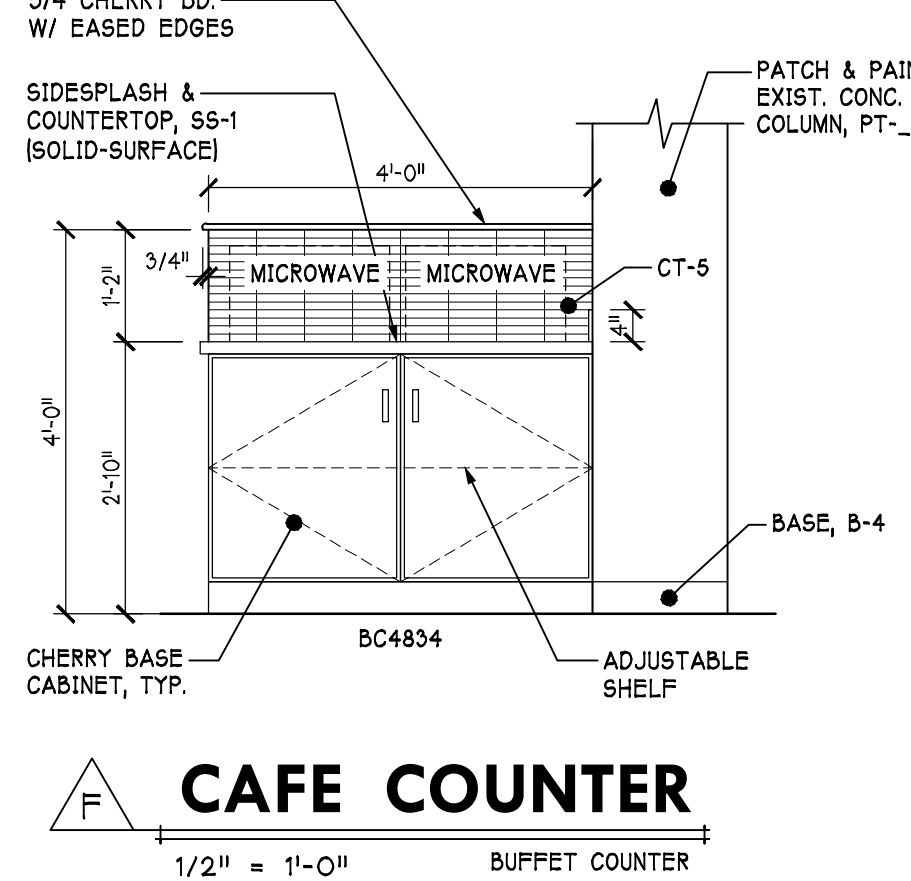
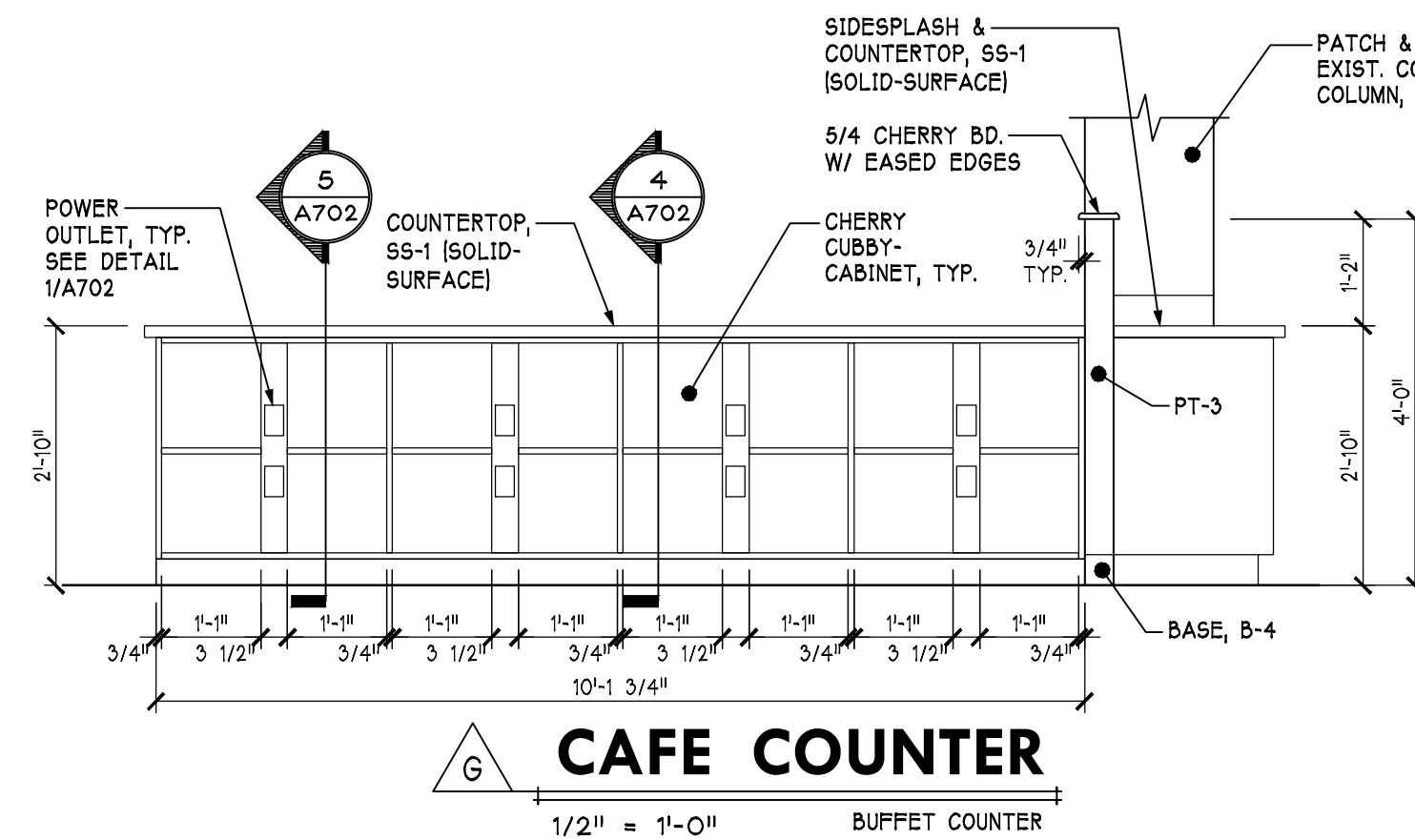
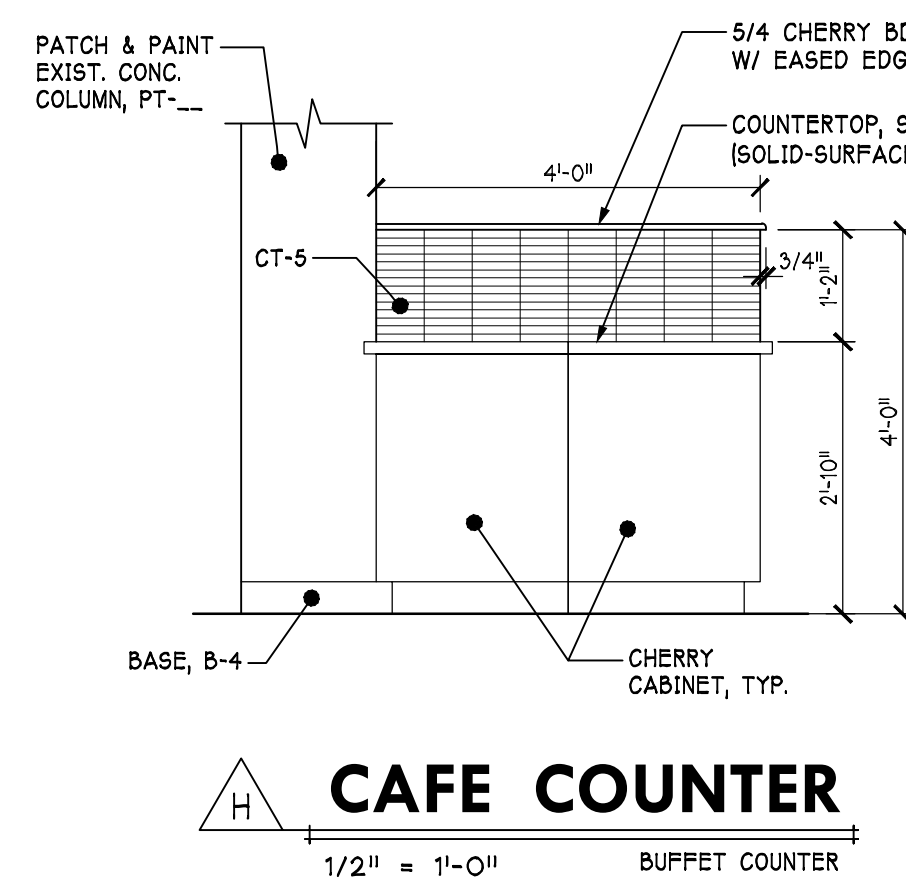
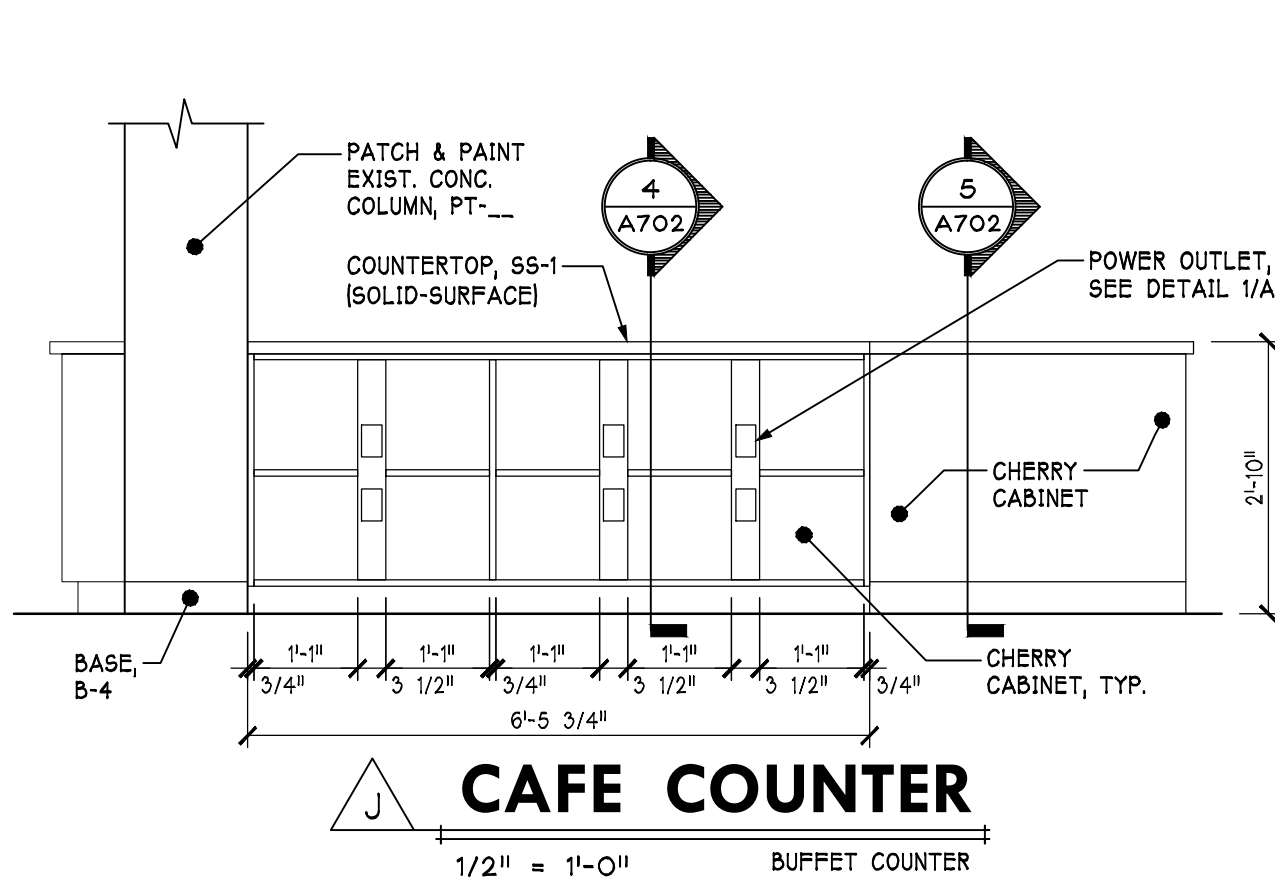
6 CUBBY-CABINET SECTION  
A702 1" = 1'-0"



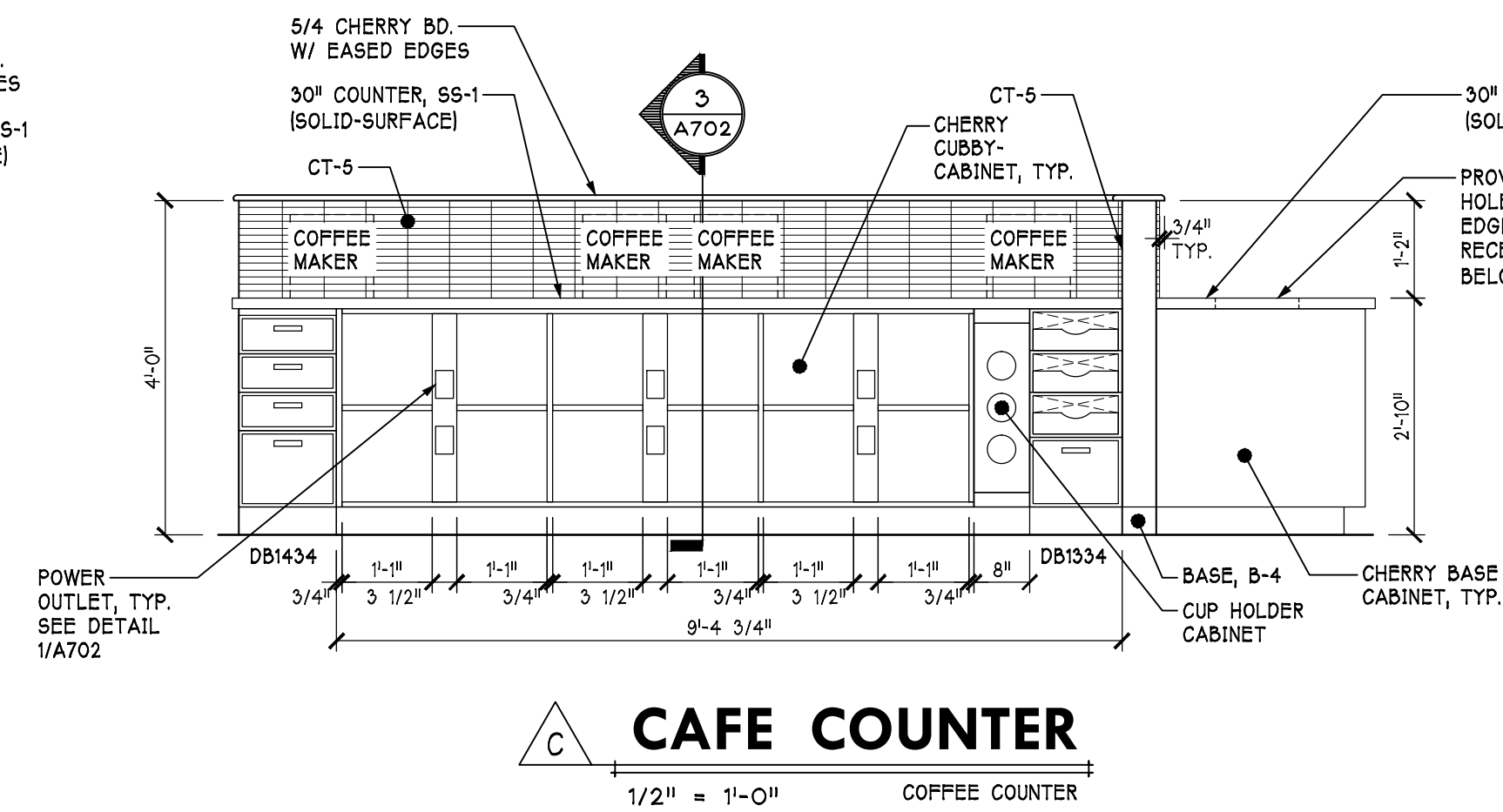
7 CUBBY-CABINET SECTION  
A702 1" = 1'-0"



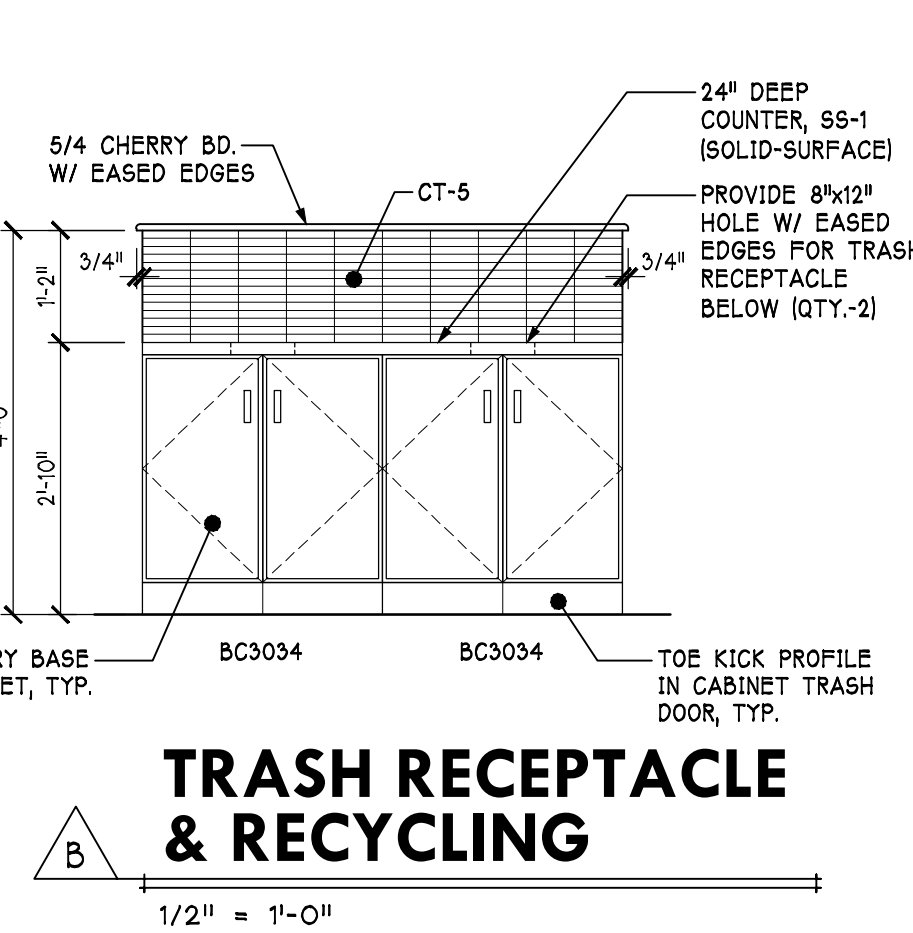
8 CUBBY-CABINET SECTION  
A702 1" = 1'-0"



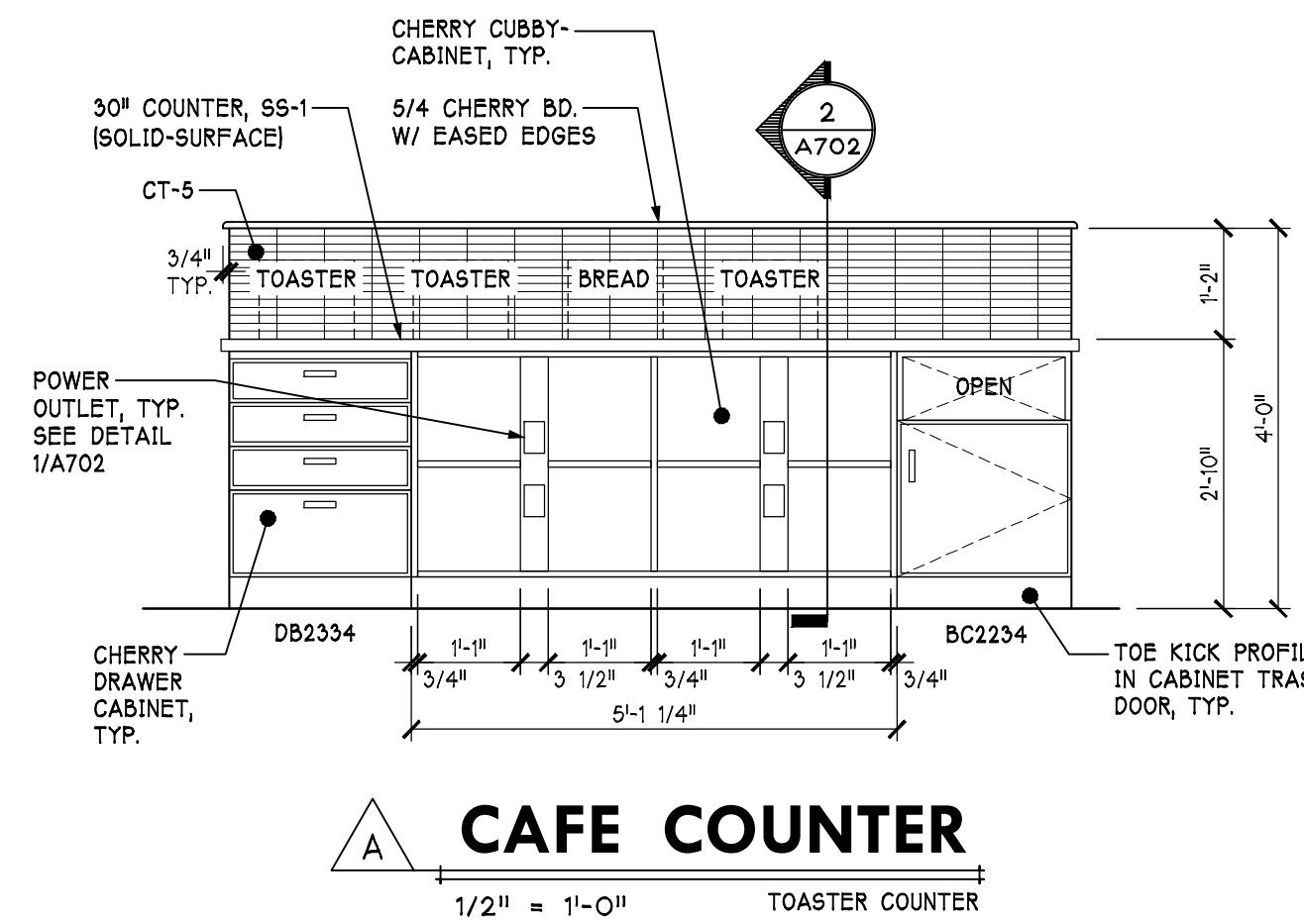
C CAFE COUNTER  
A702 1/2" = 1'-0"



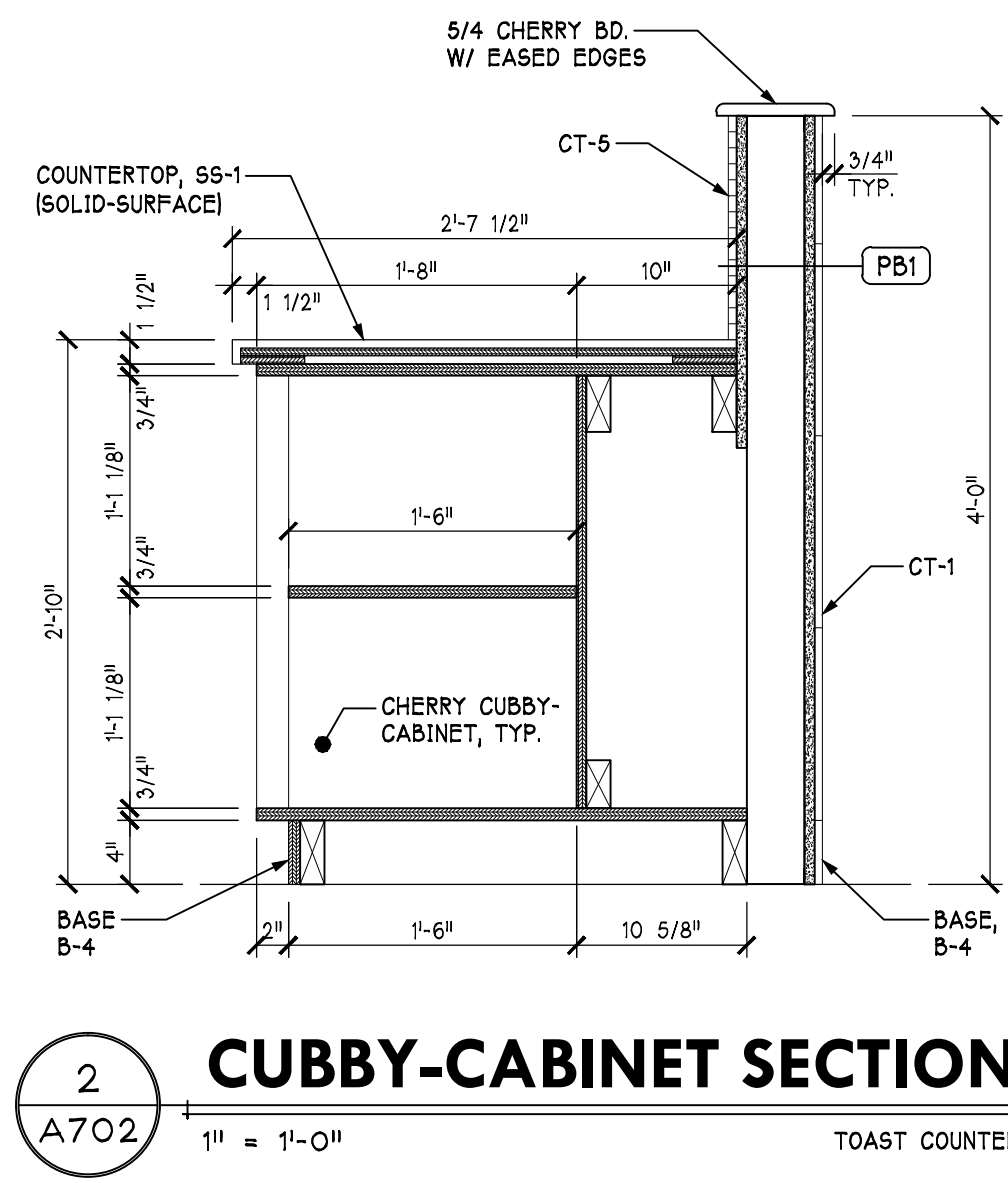
D CAFE COUNTER  
A702 1/2" = 1'-0"



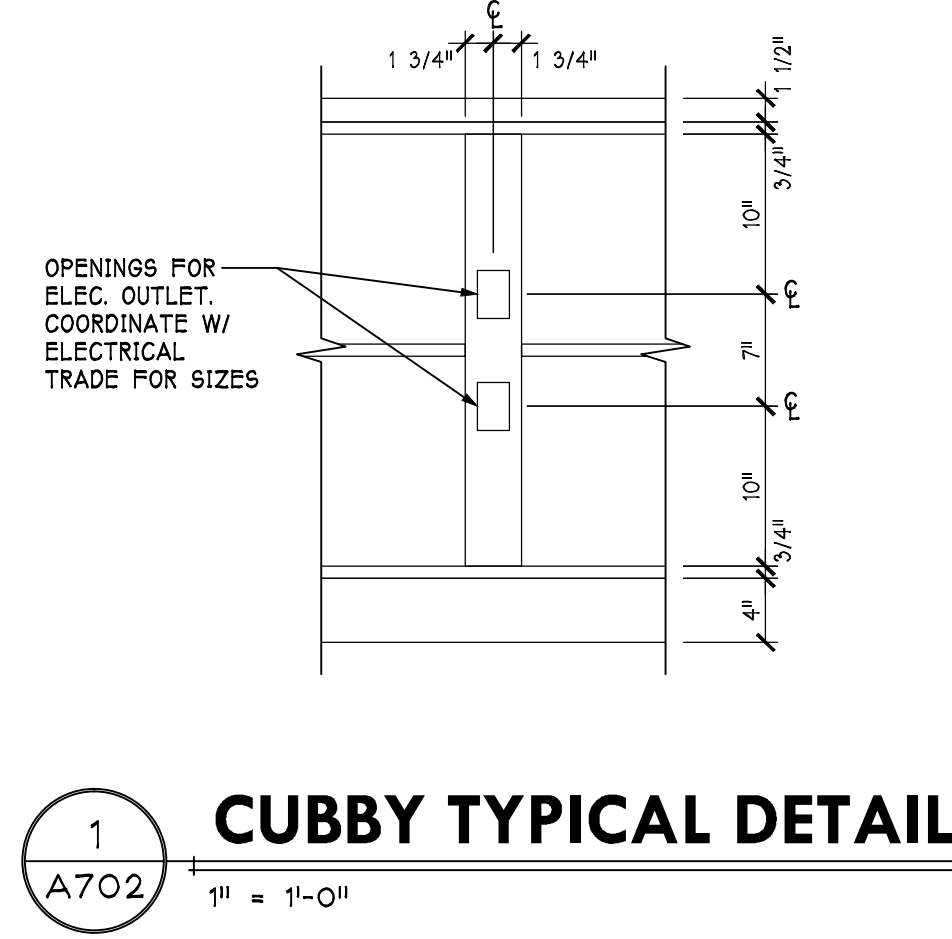
B TRASH RECEPTACLE & RECYCLING  
A702 1/2" = 1'-0"



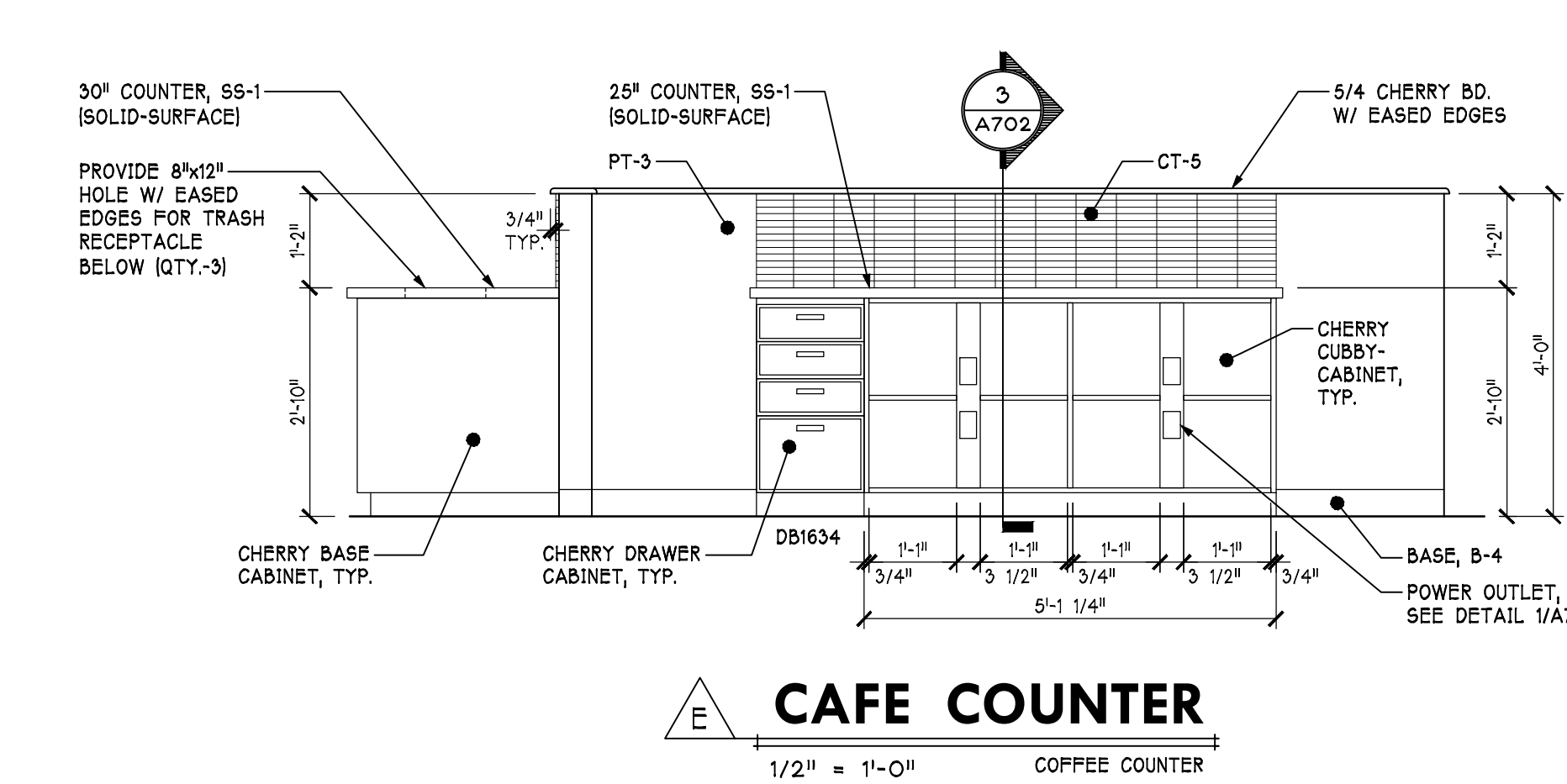
A CAFE COUNTER  
A702 1/2" = 1'-0"



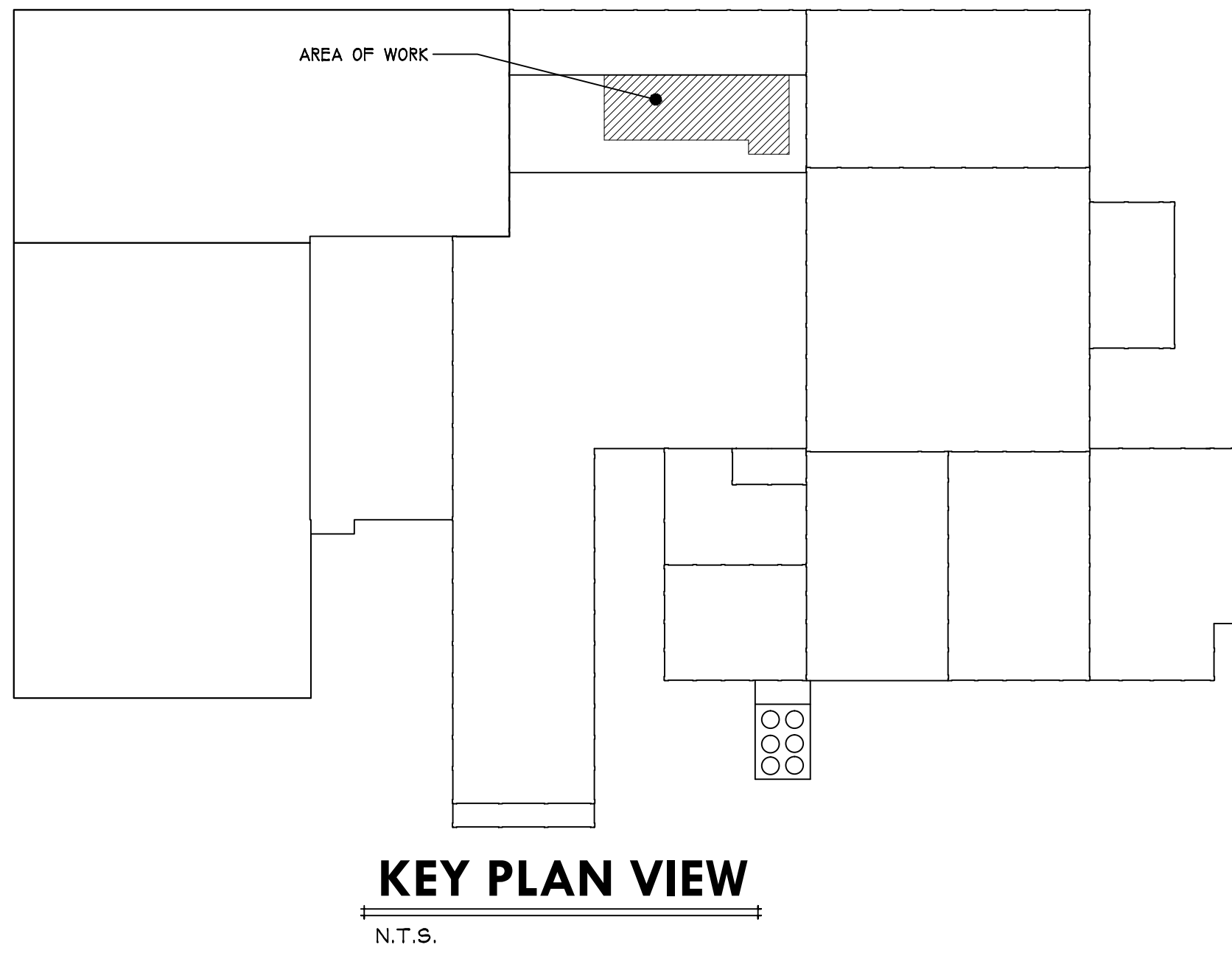
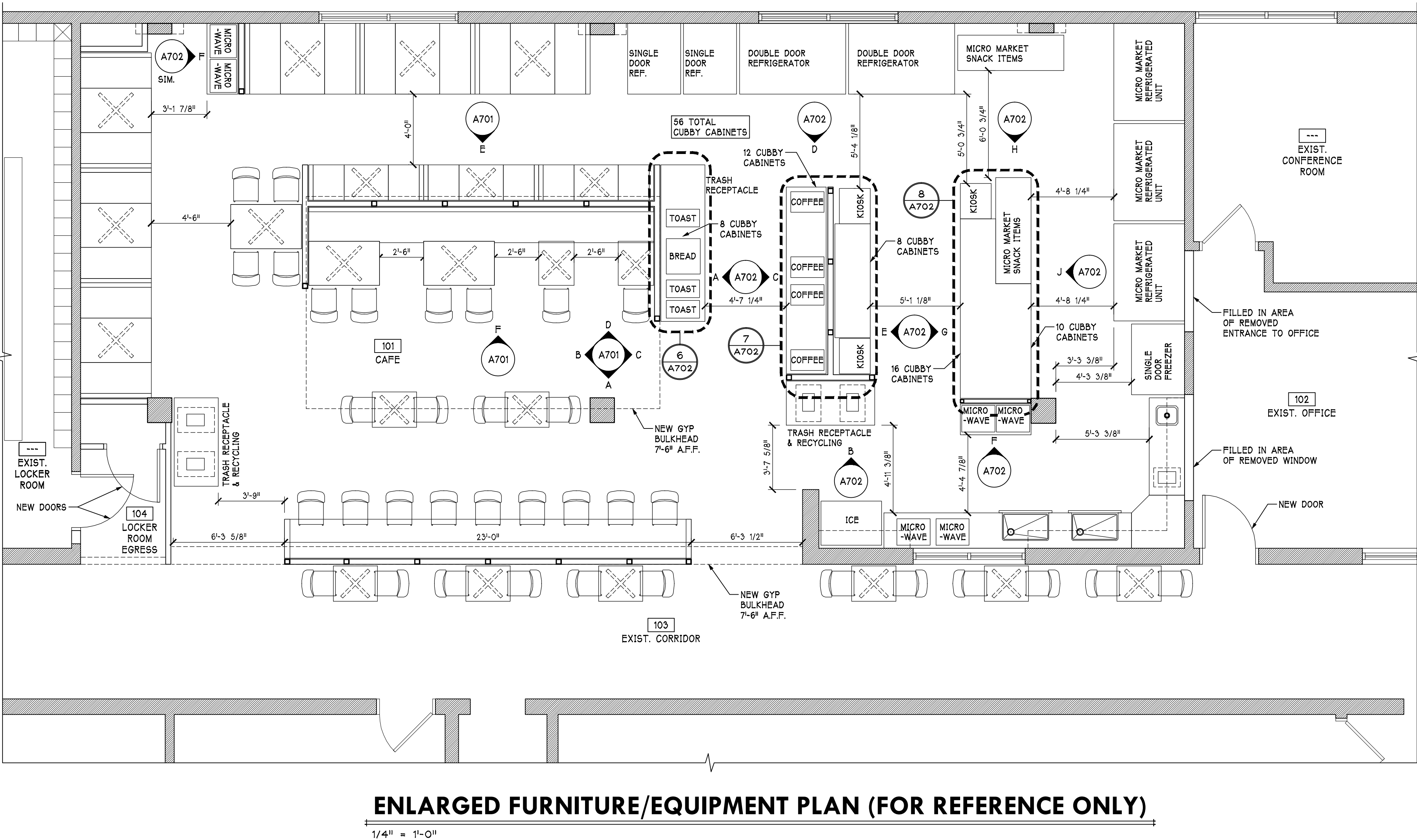
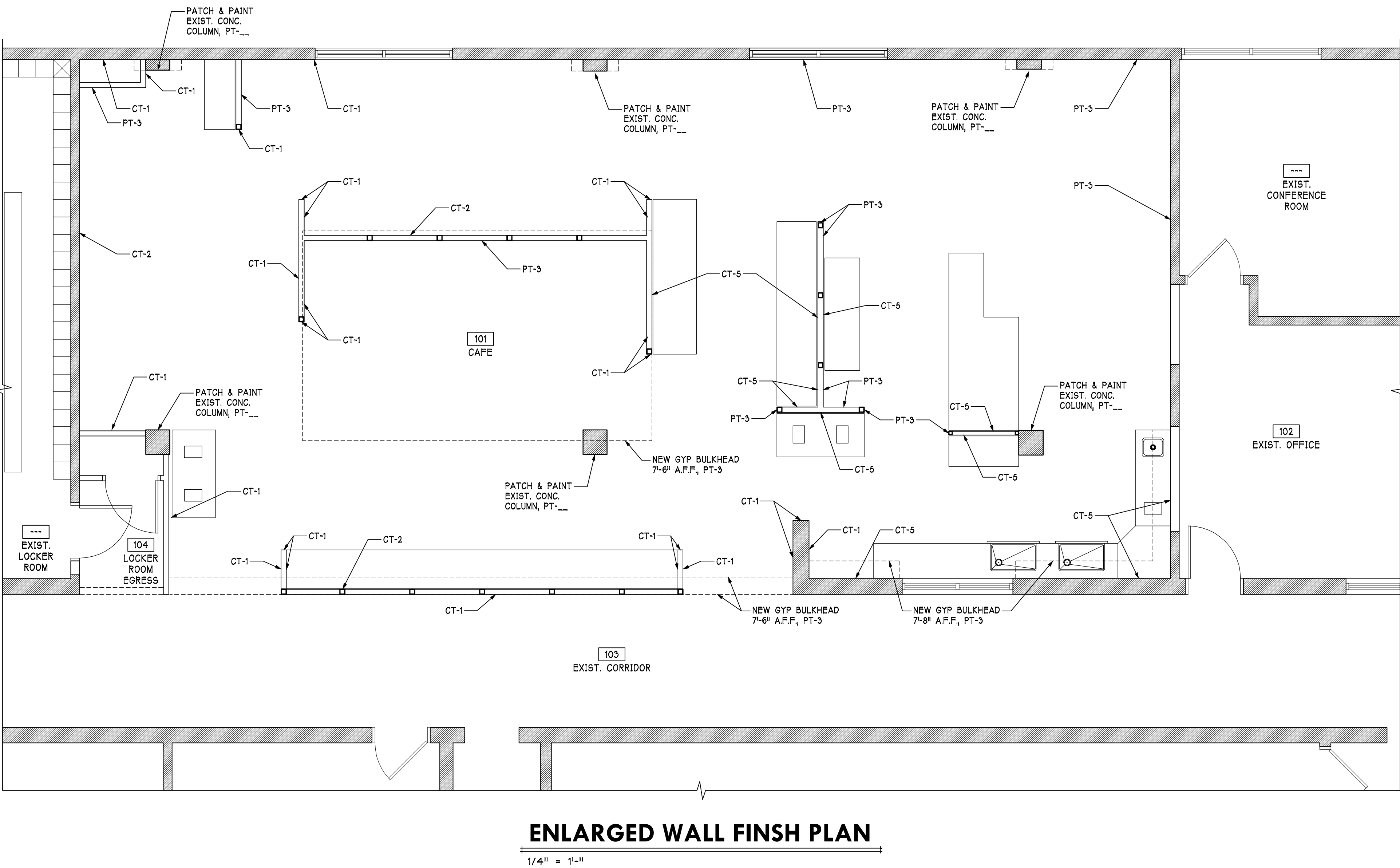
2 CUBBY-CABINET SECTION  
A702 1" = 1'-0"



1 CUBBY TYPICAL DETAIL  
A702 1" = 1'-0"



E CAFE COUNTER  
A702 1/2" = 1'-0"



Job No: 1730  
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Drawing Title:  
ENLARGED  
FLOOR  
FURNITURE &  
WALL FINISH  
PLANS

Sheet No.

A801

Date: MM/DD/YY

PROGRESS PRINT NOT FOR CONSTRUCTION (09/20/18)

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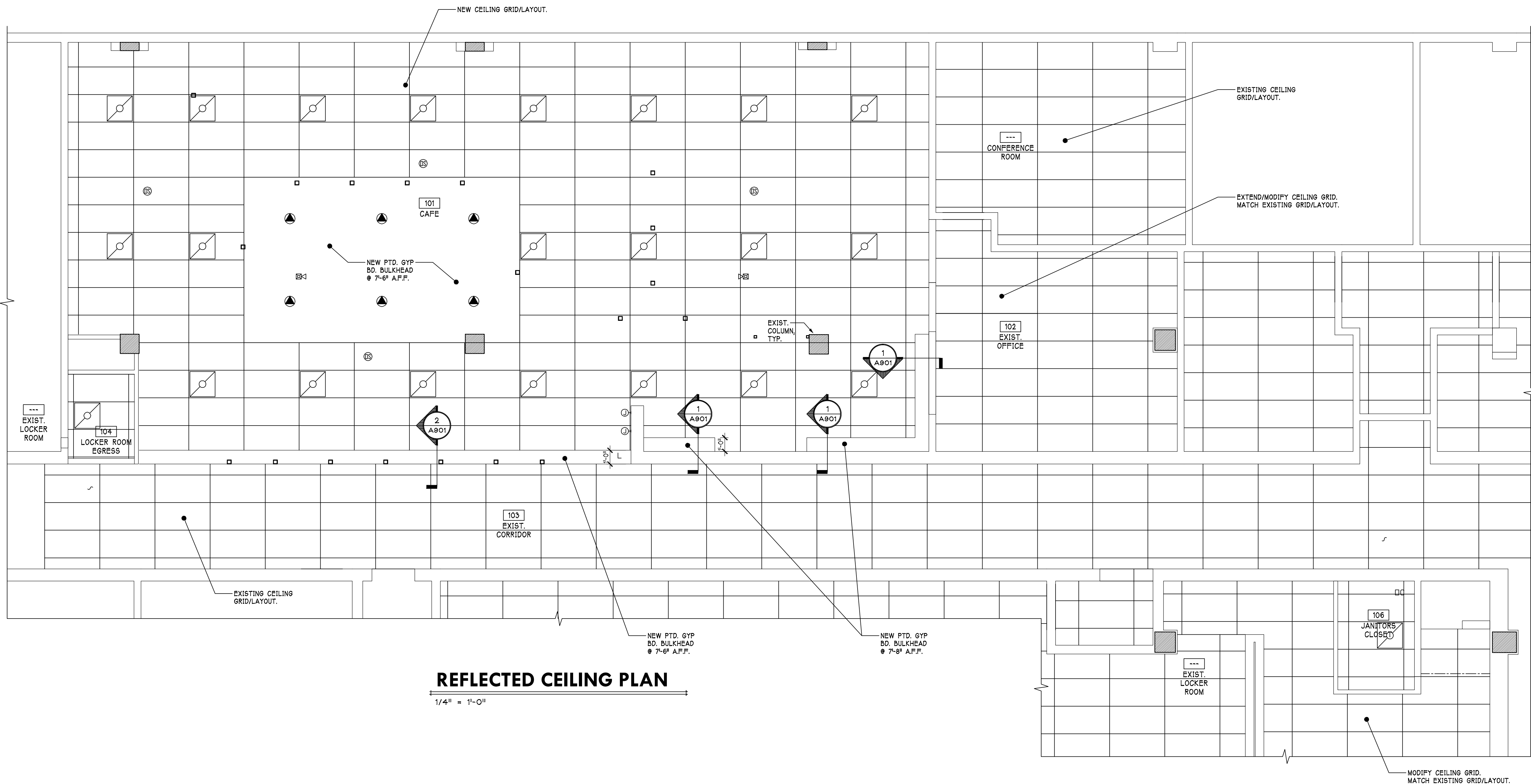
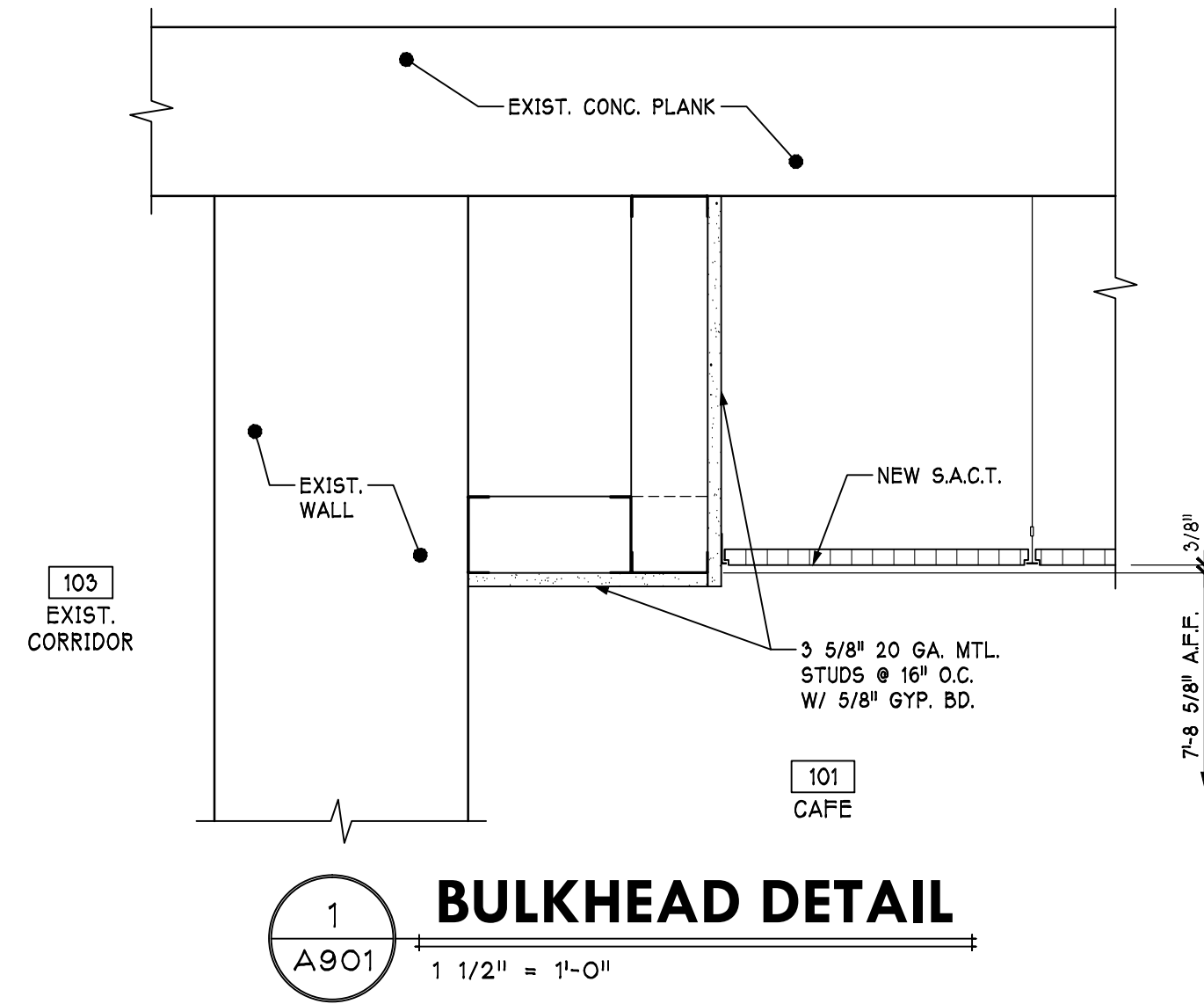
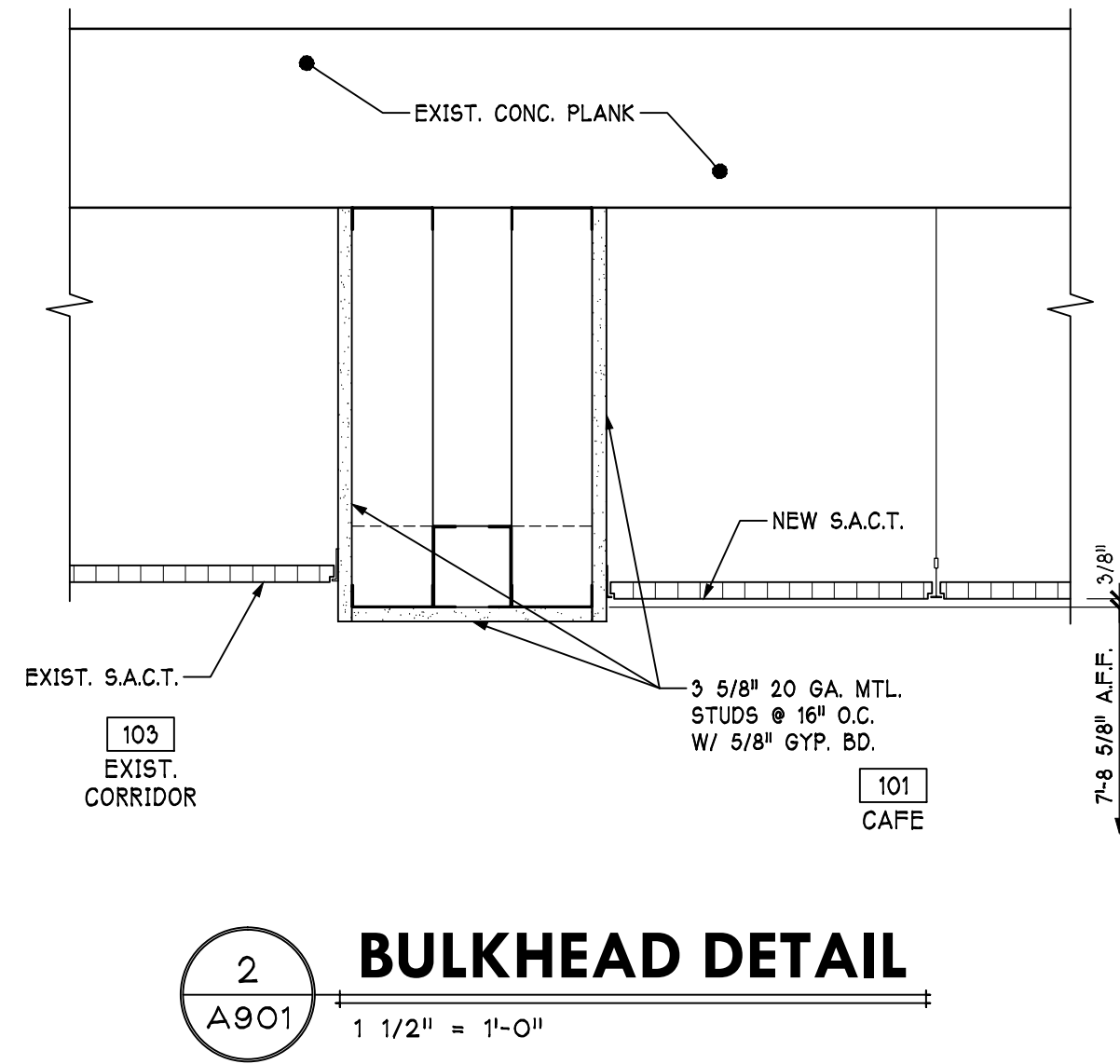
REFLECTED CEILING PLAN NOTES

1. SEE ROOM FINISH SCHEDULES FOR CEILING HEIGHT INFORMATION.
2. SEE ENLARGED GUEST ROOM PLANS FOR GUEST ROOM BULKHEAD INFORMATION
3. SEE ENLARGED GUEST ROOM LIGHTING PLANS FOR GUEST ROOM LIGHTING INFORMATION

REFLECTED CEILING LEGEND

SYMBOL	DESCRIPTION
	2x4 LAY-IN LIGHT
	2x2 LAY-IN LIGHT
	CIRCULAR SURFACE MOUNTED LIGHT
	CIRCULAR PENDENT LIGHT
	LINEAR PENDENT LIGHT
	LINEAR SURFACE MOUNTED LIGHT
	DOWN LIGHT
	EXIT SIGN
	COMBINATION EXIT/EGRESS LIGHT
	EGRESS LIGHT
	SMOKE DETECTOR
	HEAT DETECTOR
	FIRE ALARM STROBE
	FIRE ALARM HORN STROBE
	SUPPLY DIFFUSER
	RETURN GRILLE
	CONCEALED FIRE SPRINKLER
	PENDENT FIRE SPRINKLER
	SEMI-RECESSED FIRE SPRINKLER
	SIDEWALL FIRE SPRINKLER
	UP-RIGHT PENDENT SPRINKLER

NOTE: THIS IS A GENERAL LEGEND AND MAY NOT INCLUDE ALL SPECIFIC SYMBOLS IN THIS PROJECT. REFER TO INDIVIDUAL DISCIPLINE DRAWINGS FOR SPECIFIC DETAILS.



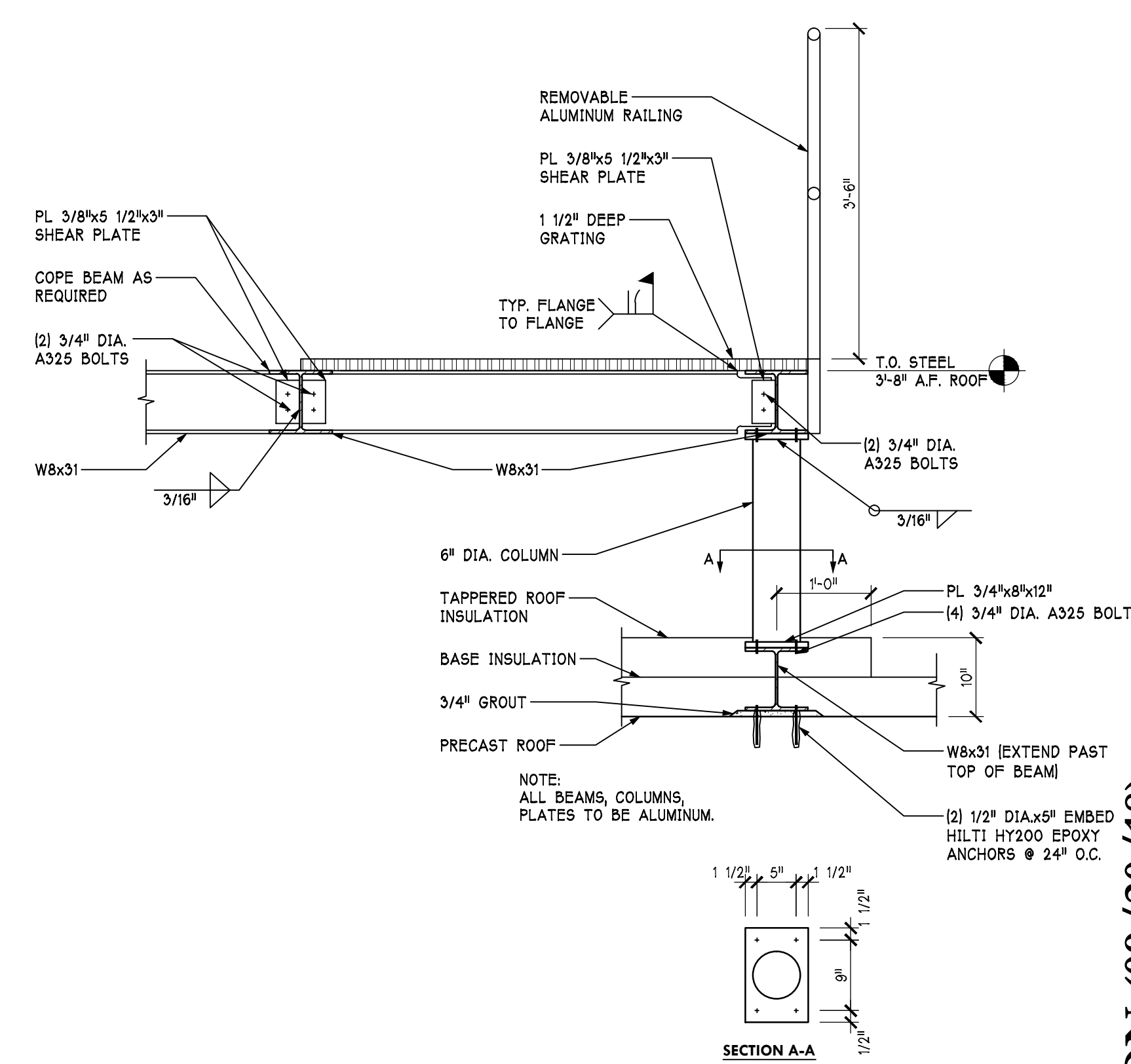
**MECH. UNIT FRAME PLAN**

NOTE:  
FRAMES TO BE CENTERED ON MECHANICAL UNITS  
COORDINATE LOCATION WITH MECHANICAL PLANS.

**1**  
S101

**ROOF PLAN**

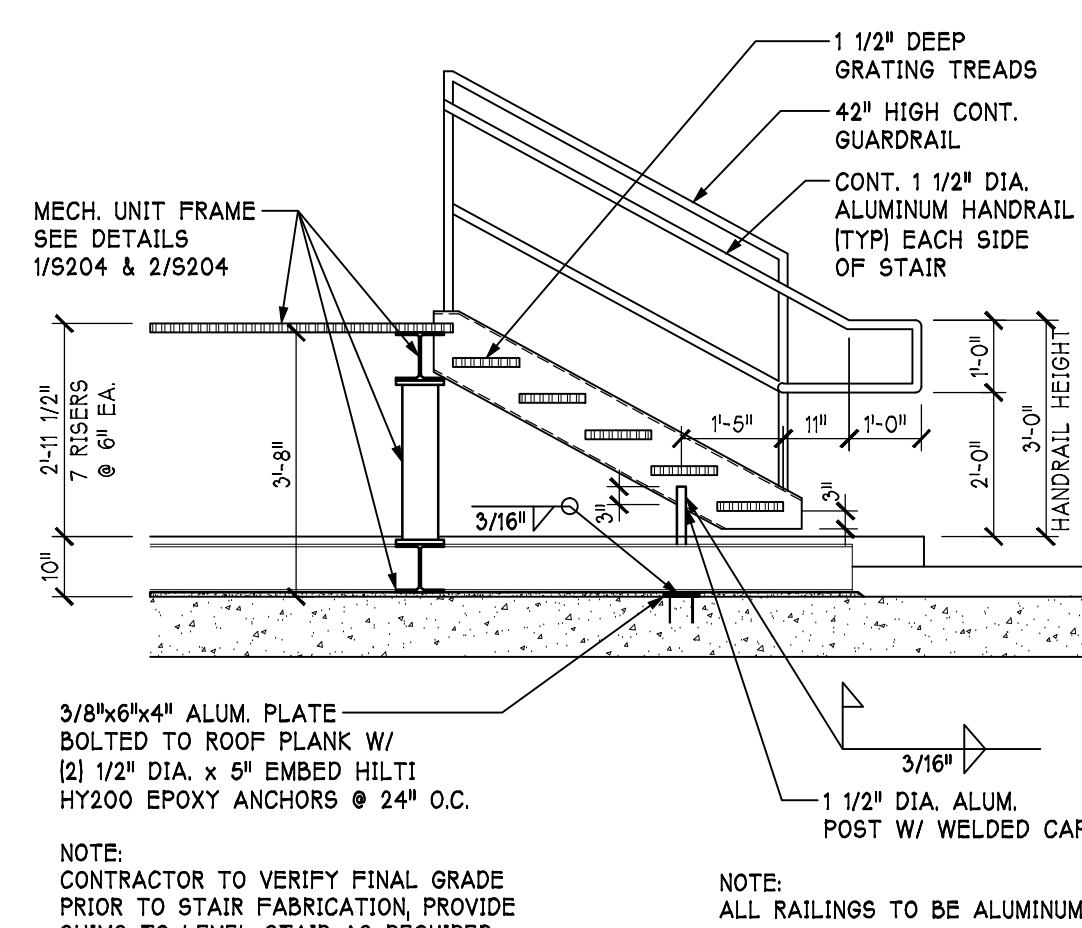
1/8" = 1'-0"



4  
S101

**MECH. UNIT FRAME DETAIL**

3/4" = 1'-0"

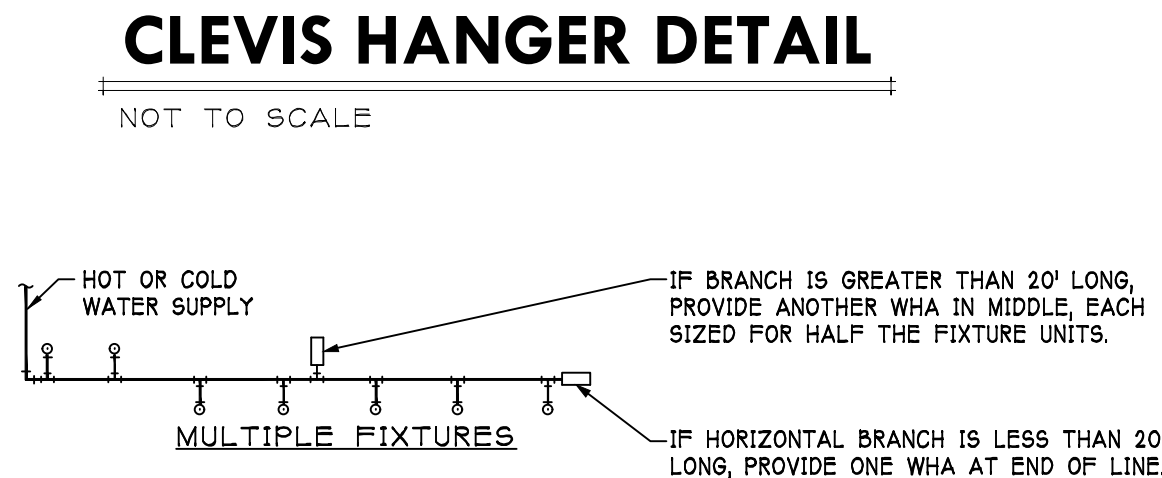
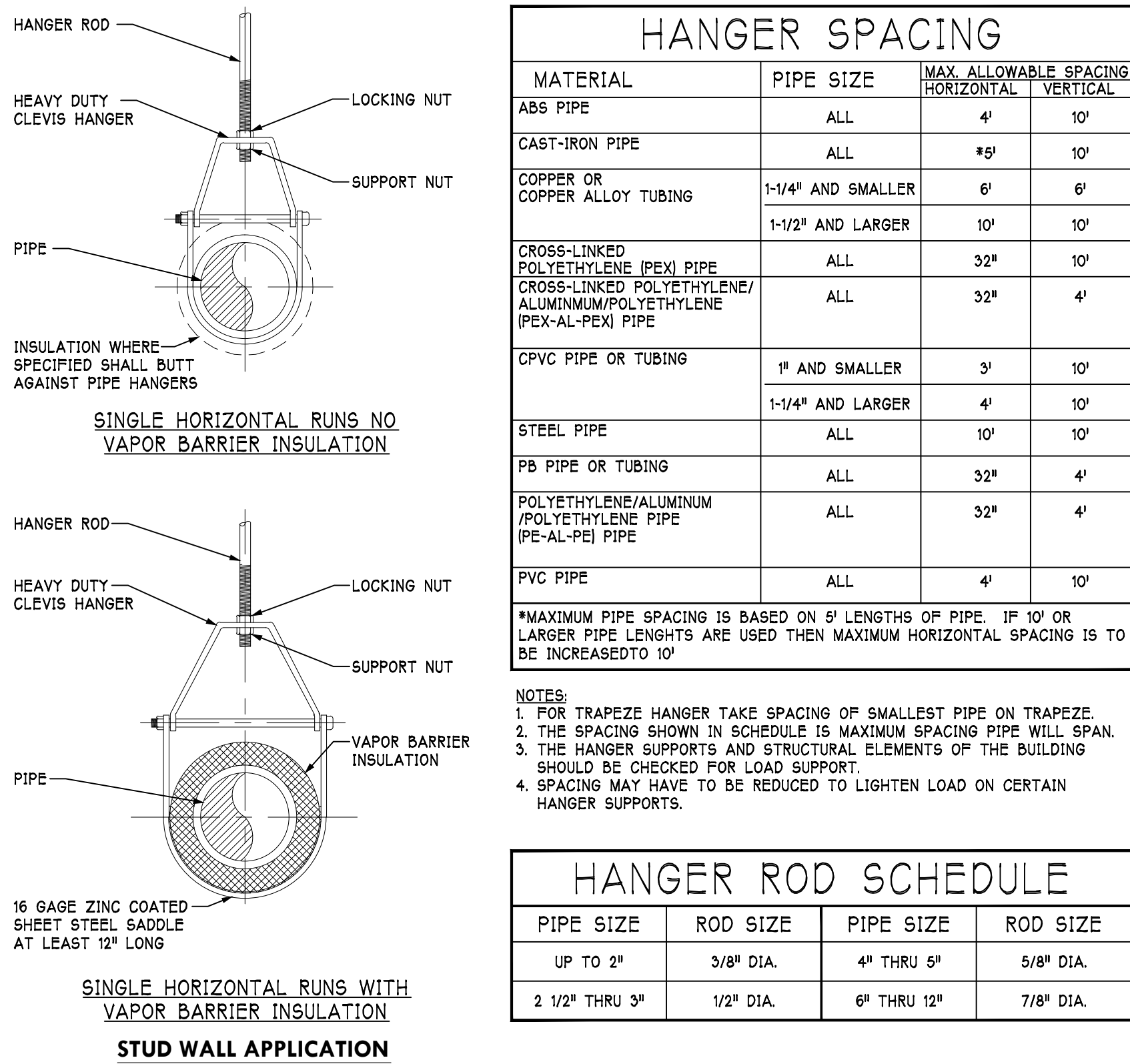


3  
S101

**STAIR SECTION**

$3/8'' = 1'-0''$





PD1 SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITORS SINK	3	3
SHOWER/BATHTUB	2	2

INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO "WHA".

## WATER HAMMER ARRESTER DETAIL

NOT TO SCALE

SYMBOL	DESCRIPTION
	THERMOMETER
	UNION
	STRAINER
	BELOW FLOOR SAN CONNECTION (SCHEMATIC)
	ABOVE FLOOR SAN CONNECTION (SCHEMATIC)
	EXPANSION JOINT
	PIPE ANCHOR
	PIPE GUIDE
	AQUASTAT
	SOLENOID VALVE
	BACKFLOW PREVENTER (TYPE BY AHJ)
	CIRCUIT SETTER (BALANCING VALVE)
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	CIRCULATING PUMP
	FLOW SWITCH
	GATE VALVE
	GLOBE VALVE
	OUTSIDE SCREW AND YOKE GATE VALVE (OS&Y)
	PRESSURE REGULATOR / REDUCING VALVE
	PRESSURE RELIEF VALVE
	PLUG VALVE
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
	TEMPERATURE AND PRESSURE RELIEF VALVE
	TRIPLE DUTY VALVE
	VACUUM RELIEF VALVE

SYMBOL	DESCRIPTION
	COMPRESSED AIR
	CONDENSATE DRAIN
	COLD SOFTENED WATER
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	GREASE WASTE PIPING
	NATURAL GAS
	POOL WASTE PIPING
	PROPANE GAS
	SANITARY WASTE PIPING
	SANITARY VENT PIPING
	STORM WATER CONDUCTOR
	STORM WATER SECONDARY CONDUCTOR
	DIRECTION OF FLOW
	PIPE ELBOW UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PIPE CAP OR PLUG
	TRAP (PLAN VIEW)
	CLEAN OUT (IN FLOOR)
	CLEAN OUT (IN LINE)
	CLEAN OUT (IN WALL)
	HOSE BIBB / DOMESTIC WALL HYDRANT
	WATER HAMMER ARRESTER

ABBREV.	DEFINITION
AAV	COMPRESSED AIR
AS	AUTOMATIC AIR VENT
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
C	COMMON
CAP	CAPACITY
CI	CAST IRON
CO	CLEAN OUT
COND	CONDENSATE
CONV	CONVECTOR
CUH	COOLING TOWER FAN
CV	CABINET UNIT HEATER
CW	CONTROL VALVE
D	DEGREES
DG	DEGREES
DDC	DIRECT DIGITAL CONTROL
DT	DRAIN TILE
DWH	DRAIN TILE CONNECTION
EB	EXISTING
EMS	ENERGY MANAGEMENT SYSTEM
ESH	EMERGENCY SHOWER
F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FG	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FOS	FUEL OIL SUPPLY
FS	FEET PER MINUTE
FS	FLOOR SINK
FV	FACE VELOCITY
G	NATURAL GAS
GPG	GALLONS PER GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HTG	HEATING
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HYD	HYDRANT
HENTZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INL	INLET
IW	INDIRECT WASTE
KW	KILOWATT
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LRA	LOCKED ROTOR AMPS
MH	MANHOLE
MV	MANUAL AIR VENT
N	NITROGEN
NC	NOISE CRITERIA
NPCW	NON POTABLE COLD WATER
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW AND YOKE
PA	PIPE ANCHOR
PC	PUMPED CONDENSATE
PD	PRESSURE DROP (FEET OF WATER)
PG	PIPE GUIDE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSI	POUNDS PER SQUARE INCH - GAUGE
PW	POOL WASTE
RC	RAIN CONDUCTOR
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RD	ROOF DRAIN
RS	REFRIGERANT SUCTION
SAN	SANITARY WASTE
SCW	SOFTENED COLD WATER
SRD	SECONDARY ROOF DRAIN
SS	SANITARY STACK
ST	STORM WATER
STK	STACK
TC	TEMPERATURE CONTROL
UG	UNDER GROUND
V	VENT
VAC	VACUUM
VE	VOLUME EXTRACTOR
VI	VIBRATION ISOLATOR
VS	VENT STACK
VTR	VENT THRU ROOF
W	WASTE
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WHA-X	WATER HAMMER ARRESTER - PD1 SIZE X
WH	WATER HEATER
YCO	YARD CLEAN OUT

SYMBOL	DESCRIPTION
	CONSTRUCTION KEY NOTE
	DEMOLITION KEY NOTE
	EQUIPMENT DESIGNATION
	LINE OF DEVICES OR EQUIPMENT BEYOND OR BELOW THE FLOOR
	LINE OF EXISTING DEVICES OR EQUIPMENT
	LINE OF NEW OR MODIFIED DEVICES OR EQUIPMENT
	EXISTING SYSTEM COMPONENT TO BE REMOVED

## PLUMBING GENERAL NOTES

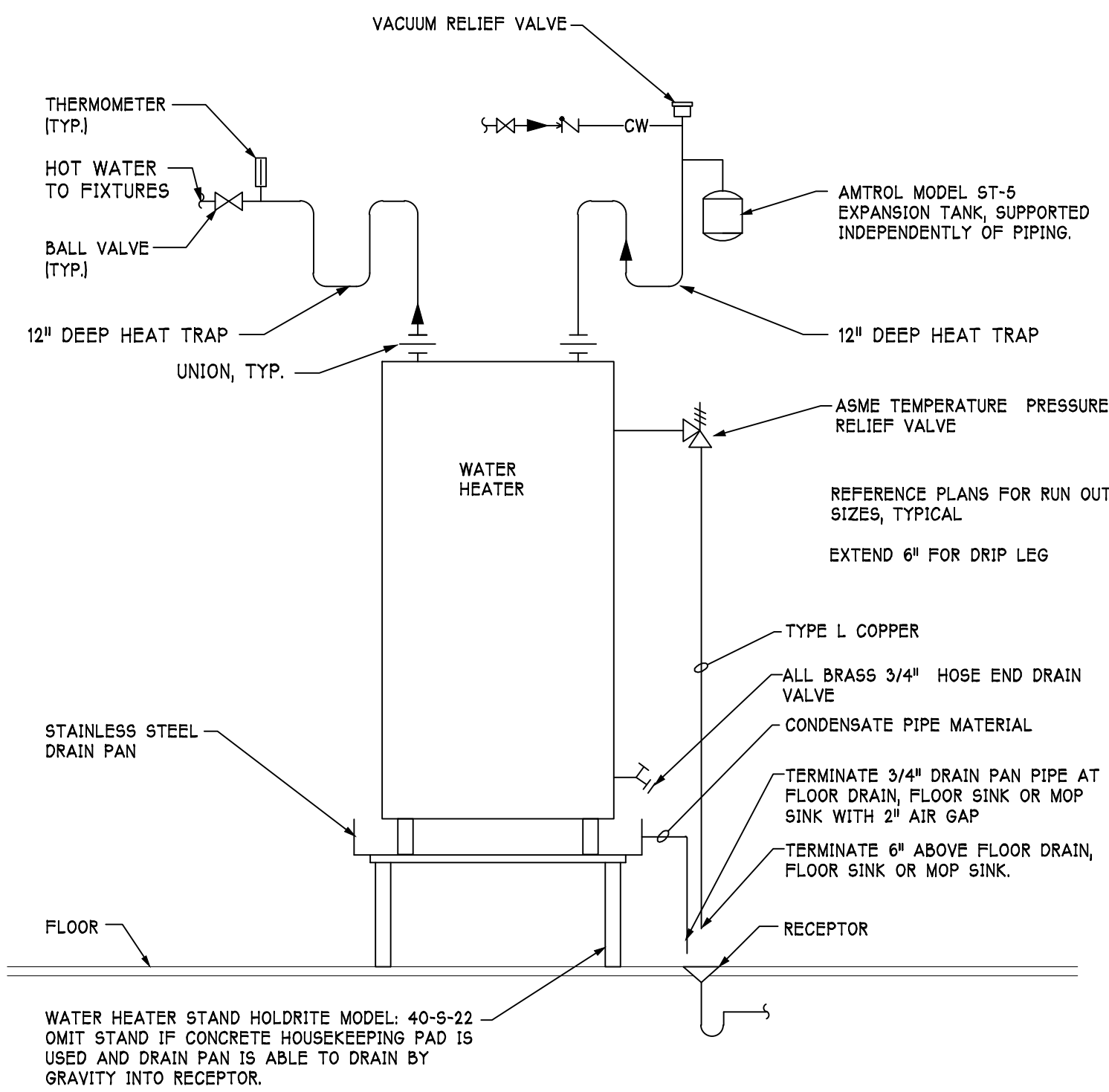
- THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL INTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE, AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.
- REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS OF AND EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE), SINKS, ETC.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
- PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
- PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
- CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
- HOT AND COLD WATER PIPING RUN-OUTS TO MULTIPLE FIXTURES SHALL BE 3/4" UNLESS NOTED OTHERWISE. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE CONNECTION SIZES.
- PLUMBING VENT PIPING TERMINATION THROUGH THE ROOF TO BE LOCATED 10' FROM ANY FRESH AIR INTAKE LOCATION, TO BE A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET OR SIDE OF ITEMS PENETRATING ROOF, AND TO BE A MINIMUM OF 12" ABOVE FINISHED ROOF MEMBRANE.
- PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEAN OUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- MINIMUM UNDERGROUND WASTE PIPE SIZE SHALL BE 3", EXCEPT CONDENSATE PIPE WHICH SHALL BE 2".
- DETAIL CALL OUTS ARE GIVEN AS A REFERENCING AID. DETAILS SHALL BE APPLIED BOTH WHERE CALLED OUT AND AS APPLICABLE.
- FINISHED FLOOR ELEVATION ASSUMED AT 100'-0". REFER TO CIVIL FOR FINISHED FLOOR ELEVATION WITH RESPECT TO SEA LEVEL.
- VERIFY EXACT LOCATIONS OF ALL FLOOR DRAINS AND FLOOR SINKS WITH KITCHEN EQUIPMENT SUPPLIER PLANS BEFORE INSTALLATION. THOSE ITEMS NOT SHOWN ON KITCHEN EQUIPMENT PLANS SHALL BE LOCATED PER PLUMBING PLANS.
- DO NOT ROUTE PIPING THROUGH STRUCTURAL MEMBERS REQUIRING FIELD OPENINGS LARGER THAN 1" WITHOUT WRITTEN CONSENT FROM ENGINEER. STRUCTURAL MEMBERS TO INCLUDE BUT ARE NOT LIMITED TO BEAMS, COLUMNS, JOIST, & STRUCTURAL WALL ELEMENTS CALLED OUT ON STRUCTURAL DRAWINGS.
- THESE PLUMBING GENERAL NOTES APPLY TO ALL SHEETS THAT FOLLOW IN THE PLUMBING SHEET SET.

## DEMO GENERAL NOTES

- ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDINGS OPERATION.
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
- ALL PLUMBING ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPING.
- ALL DEMOLITION OF THE EXISTING PLUMBING SYSTEMS, INCLUDING BUT NOT LIMITED TO PIPING, VALVES, CONTROLS, SUPPORTS, HANGERS, AND EQUIPMENT SHALL BE UNDER SCOPE OF THE PLUMBING SECTION OF THE SPECIFICATIONS.
- THE OWNER SHALL HAVE FIRST RITE OF REFUSAL ON ALL EQUIPMENT BEING REMOVED.

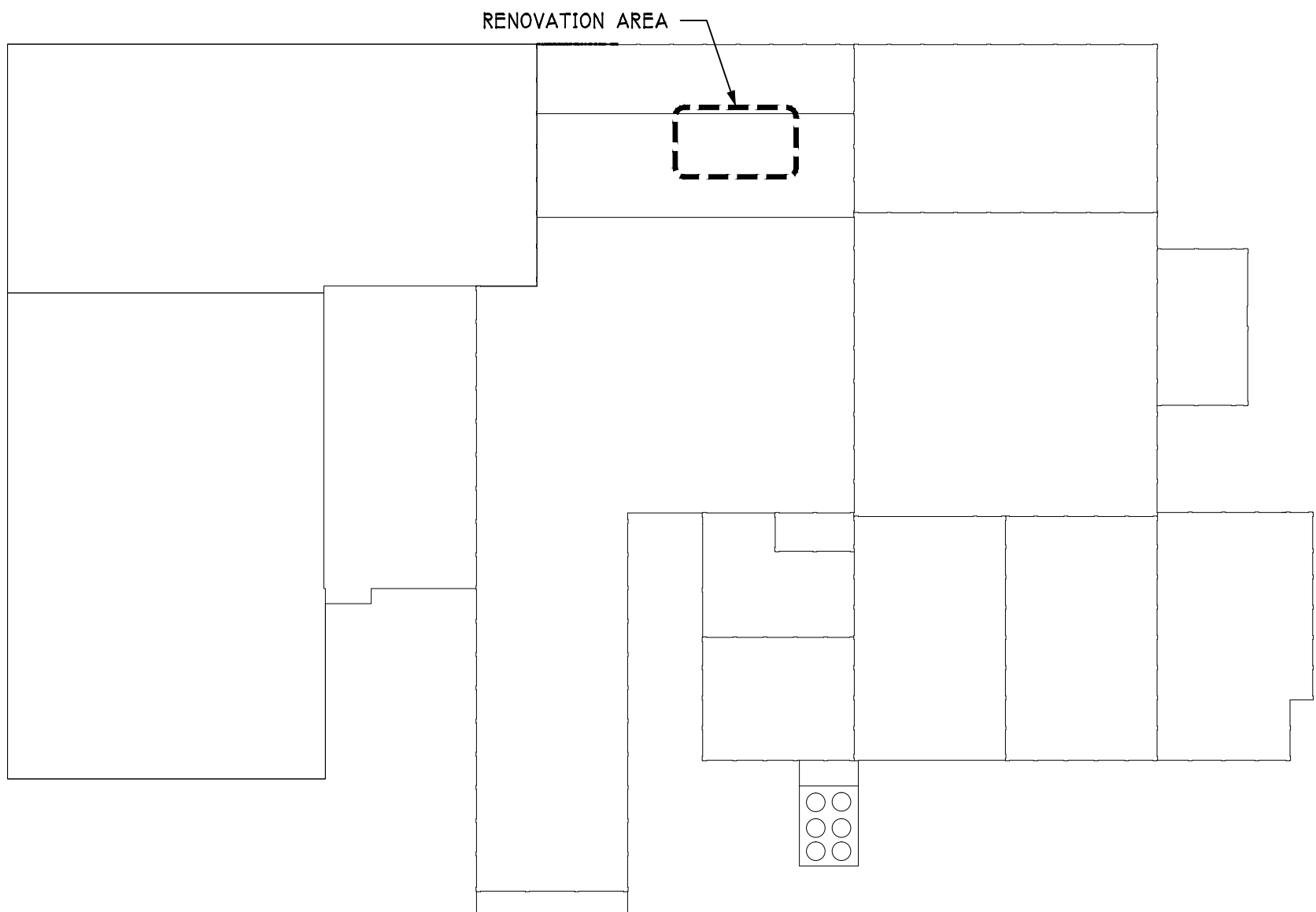
PLUMBING FIXTURE SCHEDULE							
TAG	DESCRIPTION	CONNECTION SIZE					NOTES
		CW	HW	WASTE	INDIRECT WASTE	VENT	
		INCHES	INCHES	INCHES	INCHES	INCHES	
FD-3	FUNNEL FLOOR DRAIN	0"	0"	1 1/2"	0"	0"	
FS-2	FLOOR SINK	0"	0"	2"	0"	0"	
MS-1	MOP SINK	1/2"	1/2"	1 1/2"	0"	1 1/2"	--
SK-1	FARM HOUSE SINK	1/2"	1/2"	1 1/2"	0"	1 1/2"	--
SK-2	HAND SINK	1/2"	1/2"	1 1/2"	0"	1 1/2"	--
WS-1	WATER SUPPLY BOX	1/2"	0"	0"	0"	0"	--

ELECTRIC WATER HEATER SCHEDULE									
TAG	HYDRONIC REQUIREMENTS			ELECTRICAL		BASIS OF DESIGN		WEIGHT	NOTES
	CAPACITY	EW	LWT	LOAD	V/PH/HZ	MANUFACTURER	MODEL #		
	GALLONS	DEG F	DEG F	KW					
WH-1	20	40.0	140.0	3	480/3/60	A.O. SMITH	DEL-20	238	



## WATER HEATER PIPING SCHEMATIC

NOT TO SCALE



## PLUMBING KEY PLAN

NOT TO SCALE

Job No: 1730  
Drawn: CAN  
Checked: SCP

### Revisions:

No: Date:

No: Date:

No: Date:

No: Date:

No: Date:

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No: Date:

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Drawing Title:  
PLUMBING  
SYMBOLS,  
SCHEDULES,  
AND DETAILS

Sheet No.

P000

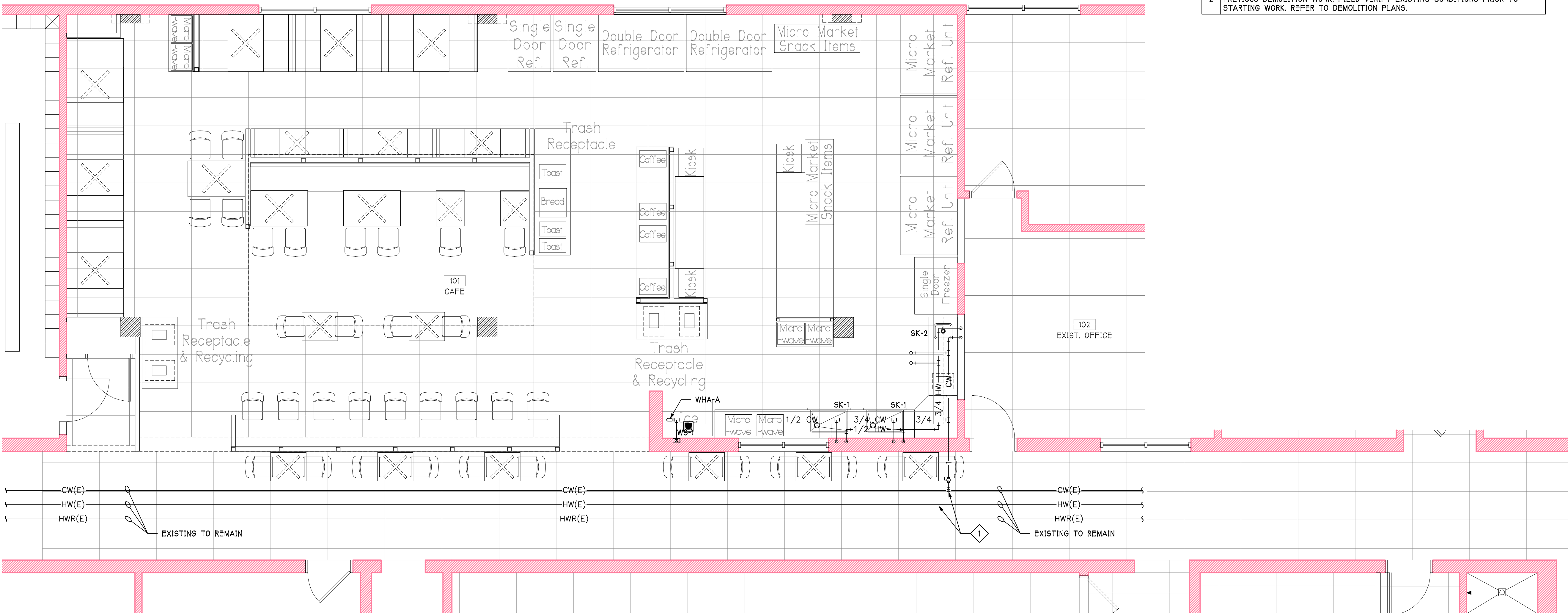
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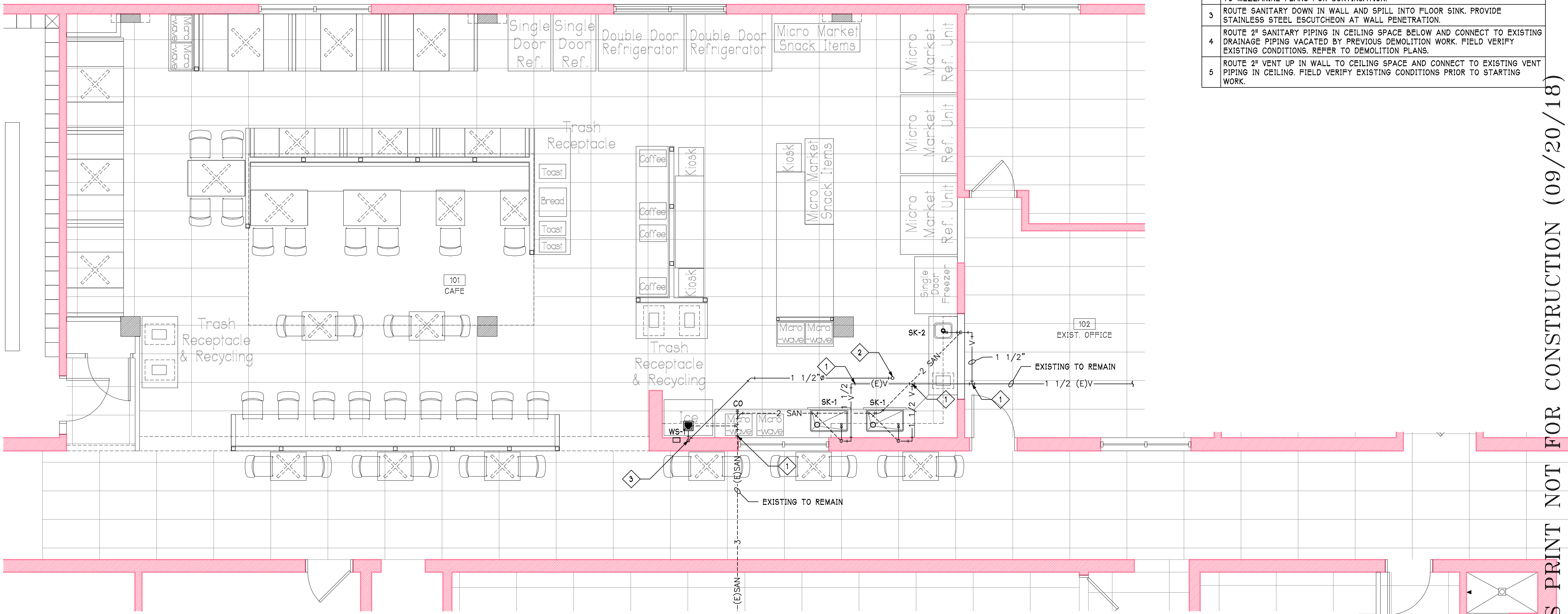






DOMESTIC SUPPLY RENOVATION PLAN

1/4" = 1'-0"



WASTE AND VENT RENOVATION PLAN

1/4" = 1'-0"

SUPPLY KEYED NOTES

- CONNECT TO EXISTING OF EQUAL OR LARGER SIZE. FIELD VERIFY EXISTING PIPING SIZE AND LOCATION PRIOR TO STARTING WORK.
- CONNECT HOT AND COLD WATER PIPING TO EXISTING PIPING VACATED BY PREVIOUS DEMOLITION WORK. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK. REFER TO DEMOLITION PLANS.

WASTE KEYED NOTES

- CONNECT TO EXISTING. FIELD VERIFY SIZE, LOCATION, AND ELEVATION OF EXISTING PRIOR TO STARTING WORK.
- ROUTE SANITARY UP THROUGH CEILING TO FLOOR DRAIN AND CONNECT. REFER TO MEZZANINE PLANS FOR CONTINUATION.
- ROUTE SANITARY DOWN IN WALL AND SPILL INTO FLOOR SINK. PROVIDE STAINLESS STEEL ESCUTCHEON AT WALL PENETRATION.
- ROUTE 2" SANITARY PIPING IN CEILING SPACE BELOW AND CONNECT TO EXISTING DRAINAGE PIPING VACATED BY PREVIOUS DEMOLITION WORK. FIELD VERIFY EXISTING CONDITIONS. REFER TO DEMOLITION PLANS.
- ROUTE 2" VENT UP IN WALL TO CEILING SPACE AND CONNECT TO EXISTING VENT PIPING IN CEILING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.

Job No: 1730  
Drawn: CAN  
Checked: SCP

Revisions:

No: Date:

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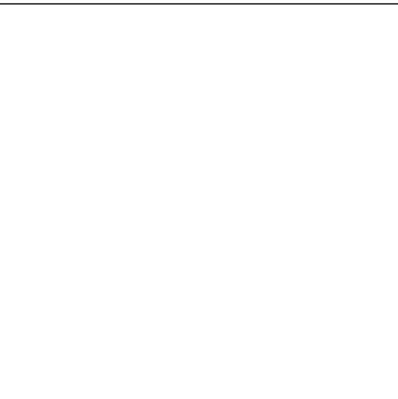
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Drawing Title:  
PLUMBING  
RENOVATION  
PLANS

Sheet No.

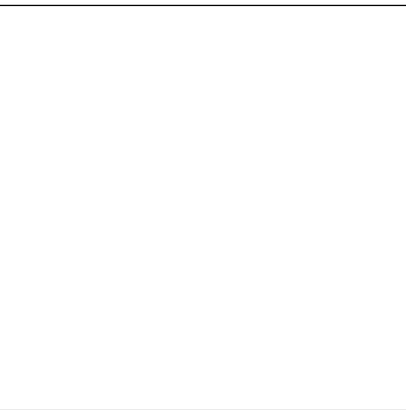
P101

Date: MM/DD/YY

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SHEET KEYED NOTES	
1	COORDINATE WATER HEATER INSTALLATION WITH OTHER TRADES. REFER TO OTHER PLANS.
2	ROUTE COLD AND HOT WATER UP TO AND CONNECT TO WATER HEATER. REFER TO DETAILS AND ADDITIONAL PLANS.

Revisions:	
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No:	Date:
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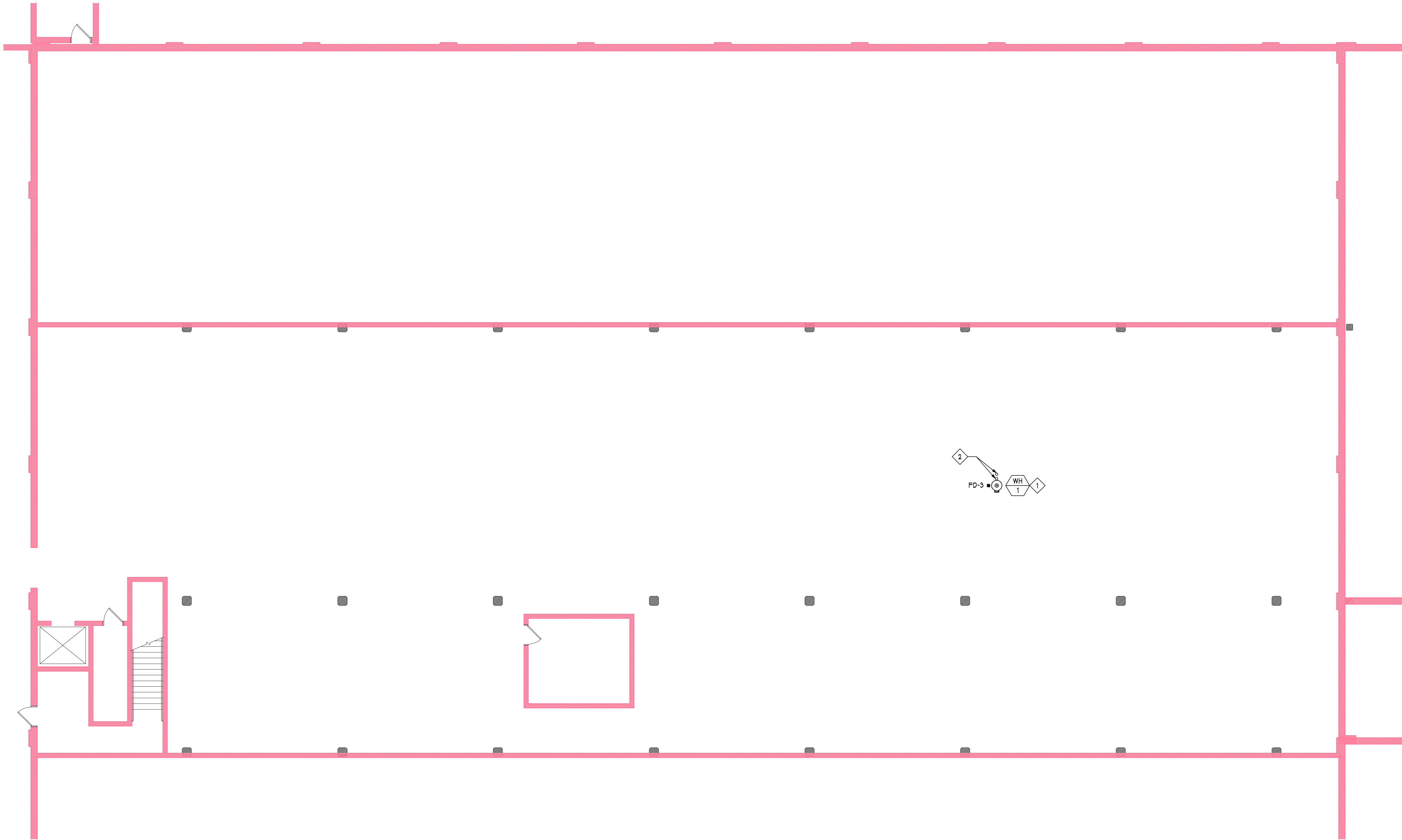
Drawing Title:  
PLUMBING  
MEZZANINE  
RENOVATION  
PLAN

Sheet No.

P102

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ENLARGED MEZZANINE PLUMBING PLAN

1/8" = 1'-0"



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No:	Date:
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No:	Date:
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No:	Date:



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Drawing Title:  
FIRE  
PROTECTION  
ABBREVIATIONS  
AND SYMBOLS

Sheet No.

FP0000

Date: MM/DD/YY

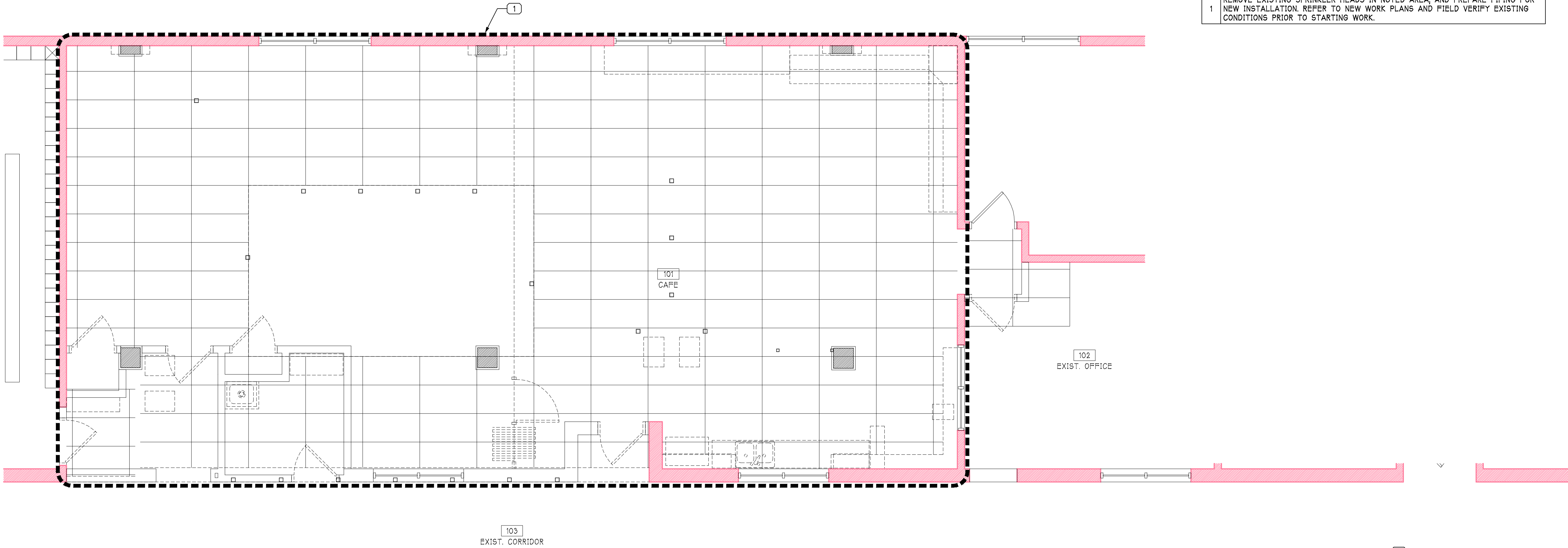
FIRE PROTECTION SYMBOLS	
SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER PIPING
	FIRE PROTECTION PIPING
	DRY FIRE PROTECTION PIPING
	PIPE ELBOW UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	DIRECTION OF FLOW
	UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	FLEXIBLE CONNECTION
	PIPE ANCHOR
	PIPE GUIDE
	PIPE CAP OR PLUG
	GATE VALVE
	CIRCULATING PUMP
	GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	ANGLE VALVE
	CHECK VALVE (SWING)
	CHECK VALVE (SPRING)
	PLUG VALVE
	NEEDLE VALVE
	OUTSIDE SCREW AND YOKE VALVE (OS&Y)
	FLOW SWITCH
	TAMPER SWITCH
	BACKFLOW PREVENTER
	DIRECTION OF PIPE PITCH
	PENDENT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	RECESSED PENDENT SPRINKLER HEAD
	SPRINKLER HEAD (SIDEWALL)
	BACK TO BACK ATTIC SPRINKLER (DRY)
	SINGLE DIRECTION ATTIC SPRINKLER (DRY)
	HIP ATTIC SPRINKLER (DRY)
	SIAMESE CONNECTION (YARD)
	SIAMESE CONNECTION (WALL MOUNTED)
	FIRE HYDRANT

FIRE PROTECTION DRAWING SYMBOLS	
SYMBOL	DESCRIPTION
	CONSTRUCTION KEY NOTE
	DEMOLITION KEY NOTE
	EQUIPMENT DESIGNATION
	LINE OF DEVICES OR EQUIPMENT BEYOND OR BELOW THE FLOOR
	LINE OF EXISTING DEVICES OR EQUIPMENT
	LINE OF NEW OR MODIFIED DEVICES OR EQUIPMENT
	EXISTING SYSTEM COMPONENT TO BE REMOVED

FIRE PROTECTION GENERAL NOTES	
A	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INTENT OF THE WORK. PROVIDE/REWORK FIRE PROTECTION SYSTEMS COMPLETE, PER APPLICABLE CODES, PER NFPA, AND PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION INCLUDING ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
B	CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. SPRINKLER PIPING SHALL NOT BE LOCATED BELOW MECHANICAL EQUIPMENT.
C	MINIMUM FIRE PROTECTION RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
D	CONTRACTOR SHALL MAKE PRESSURE AND FLOW TEST PRIOR TO SYSTEM DESIGN. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
E	CONTRACTOR SHALL MAKE APPLICATION AND PAY FOR ALL INSPECTION, PERMIT AND LICENSE REQUIRED BY THE LOCAL AUTHORITY.
F	PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 CLASSIFICATION. HYDRAULIC CALCULATIONS SHALL BE BASED ON DENSITY OF _____ GPM/SQ. FT. OVER THE MOST REMOTE _____ SQ. FT.
G	DO NOT ROUTE PIPING THROUGH STRUCTURAL MEMBERS REQUIRING FIELD OPENINGS LARGER THAN 1" WITHOUT WRITTEN CONSENT FROM ENGINEER. STRUCTURAL MEMBERS TO INCLUDE BUT ARE NOT LIMITED TO BEAMS, COLUMNS, JOIST, AND STRUCTURAL WALL ELEMENTS CALLED OUT ON STRUCTURAL DRAWINGS.

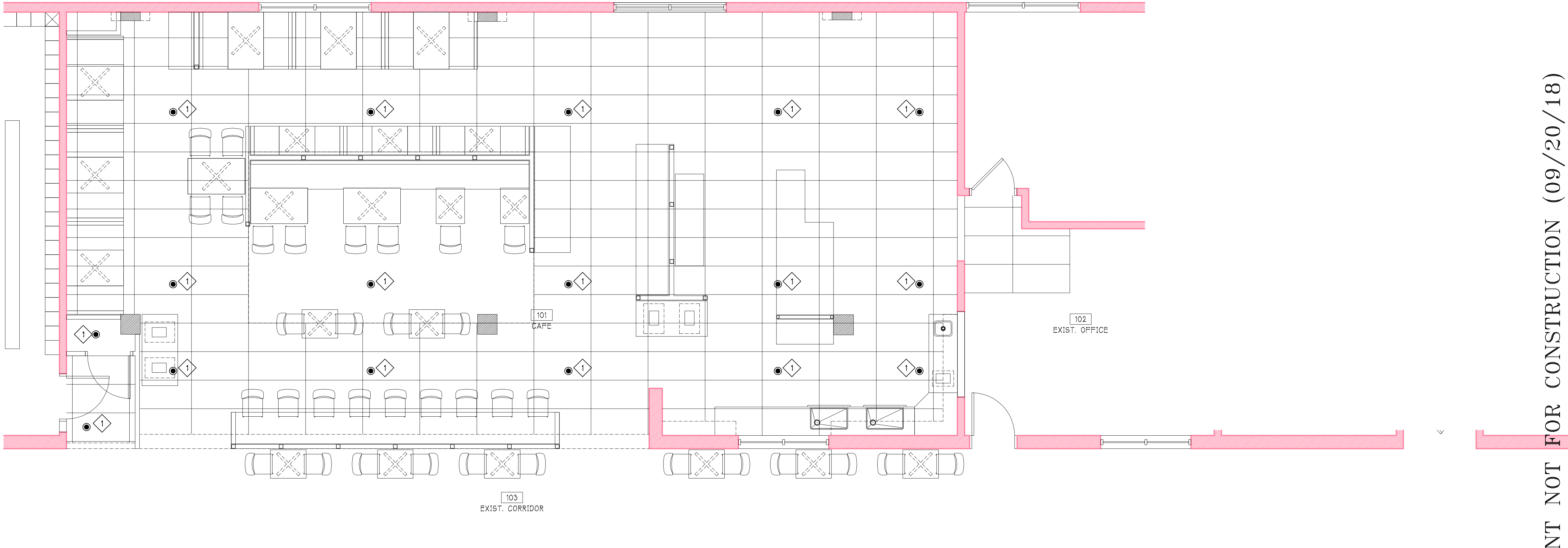
FIRE PROTECTION ABBREVIATIONS	
ABBREV.	DEFINITION
A	COMPRESSED AIR
AAV	AUTOMATIC AIR VENT
AMP	AMPERE
BFP	BACKFLOW PREVENTER
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEAN OUT
CV	CONTROL VALVE
CW	DOMESTIC COLD WATER
DEG	DEGREES
(F)	EXISTING
F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FLOOR DRAIN
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FOS	FUEL OIL SUPPLY
FVC	FIRE VALVE CABINET
G	NATURAL GAS
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HYD	HYDRANT
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
LRA	LOOKED ROTOR AMPS
MD	MOTORIZED DAMPER
MV	MANUAL AIR VENT
NC	NOISE CRITERIA
NPCW	NON POTABLE COLD WATER
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW AND YOKE
PA	PIPE ANCHOR
PD	PRESSURE DROP (FEET OF WATER)
PG	PIPE GUIDE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSI	POUNDS PER SQUARE INCH - GAUGE
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
STK	STACK
UG	UNDER GROUND
UON	UNLESS OTHERWISE NOTED
VAC	VACUUM
WG	WATER GAUGE

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FIRE PROTECTION DEMOLITION PLAN

1/4" = 1'-0"



FIRE PROTECTION RENOVATION PLAN

1/4" = 1'-0"

**SHEET KEYED NOTES**

1 REMOVE EXISTING SPRINKLER HEADS IN NOTED AREA, AND PREPARE PIPING FOR NEW INSTALLATION. REFER TO NEW WORK PLANS AND FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.

**SHEET KEYED NOTES**

1 CONNECT NEW SPRINKLER TO EXISTING SPRINKLER PIPING. FIELD VERIFY EXISTING PIPING PRIOR TO STARTING WORK.

Job No: 1730  
Drawn: MAB  
Checked: SCP

Revisions:	
No:	Date:
No:	Date:
No:	Date:
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Drawing Title:  
FIRE  
PROTECTION  
RENOVATION  
PLAN

Sheet No.  
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Drawing Title:  
MECHANICAL  
ABBREVIATIONS  
AND SYMBOLS

Sheet No.  
M000

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Drawing Title:  
MECHANICAL  
ABBREVIATIONS  
AND SYMBOLS

Sheet No.

M000

Date: MM/DD/YY

MECH. DRAWING SYMBOLS

SYMBOL	DESCRIPTION
	CONSTRUCTION KEY NOTE
	DEMOLITION KEY NOTE
	EQUIPMENT DESIGNATION
	LINE OF DEVICES OR EQUIPMENT BEYOND OR BELOW THE FLOOR
	LINE OF EXISTING DEVICES OR EQUIPMENT
	LINE OF NEW OR MODIFIED DEVICES OR EQUIPMENT
	EXISTING SYSTEM COMPONENT TO BE REMOVED
R-1 500-3	RETURN GRILLE WITH SCHEDULE TAG "R-2" 500 CFM TYPICAL FOR 3 RETURN GRILLES
S-2 270-4	SUPPLY DIFFUSER WITH SCHEDULE TAG "S-2" 270 CFM TYPICAL FOR 4 DIFFUSERS

MECH. GENERAL NOTES

1	THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL INTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS, SPECIAL RADIUS OR MITERED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
2	CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3	DUCTWORK OR MECHANICAL PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. DUCTWORK SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4	THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
5	COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS ETC. WITH ARCHITECTURAL TRADES.
6	THE CONTRACTOR SHALL REFER TO ARCHITECTURAL FINISH SCHEDULE REGARDING CEILING TYPES FOR SELECTION OF GRILLE, REGISTER, AND DIFFUSER FRAME TYPES.
7	COORDINATE AND PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO BALANCING DAMPERS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
8	PAINT ALL VISIBLE INSIDE SURFACES OF GRILLES, REGISTERS AND DIFFUSERS FLAT BLACK.
9	BRANCH DUCTWORK TO GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE SAME SIZE AS THE GRILLE, REGISTER OR DIFFUSER NECK SIZE WHERE NO DUCT SIZE IS INDICATED ON PLAN.
10	MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0".
11	DETAIL CALL OUTS ARE GIVEN AS A REFERENCING AID. DETAILS SHALL BE APPLIED BOTH WHERE CALLED OUT AND AS APPLICABLE.
12	FOR EQUIPMENT VALVES, COMPONENT, AND PIPING ARRANGEMENT, REFER TO PIPING DIAGRAMS AND DETAILS.
13	ON THIS SHEET ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON PROJECT DRAWING FILES. WHENEVER THE SYMBOL OCCURS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED.
14	THESE MECHANICAL GENERAL NOTES APPLY TO ALL SHEETS THAT FOLLOW IN THE MECHANICAL SHEET SET.
15	DO NOT ROUTE PIPING OR DUCTWORK THROUGH STRUCTURAL MEMBERS REQUIRING FIELD OPENINGS LARGER THAN 1", WITHOUT WRITTEN CONSENT FROM ENGINEER. STRUCTURAL MEMBERS TO INCLUDE BUT ARE NOT LIMITED TO BEAMS, COLUMNS, JOIST, AND STRUCTURAL WALL ELEMENTS CALLED OUT ON STRUCTURAL DRAWINGS.

MECH. DESIGN VARIABLES

THE FOLLOWING CALCULATIONS ARE BASED ON THE MOST CURRENT VERSION OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE) FUNDAMENTALS HANDBOOK.

1	CLIMATE DESIGN LOCATION:	
	HARRISBURG INTERNATIONAL AIRPORT HARRISBURG, PENNSYLVANIA, USA	
2	ASHRAE ANNUAL HEATING CONDITIONS:	
	HEATING DRY-BULB [99.6%]:	8.7 DEGREES FAHRENHEIT
	ASHRAE ANNUAL COOLING AND DEHUMIDIFICATION CONDITIONS:	
	COOLING DRY-BULB [0.4%]:	82.4 DEGREES FAHRENHEIT
	COOLING WET-BULB [0.4%]:	73.8 DEGREES FAHRENHEIT
	DEW POINT [0.4%]:	73.4 DEGREES FAHRENHEIT
	HUMIDITY RATIO [0.4%]:	125.7 GRAINS PER POUND OF DRY AIR
	MEAN COINCIDENTAL DRY-BULB [0.4%]:	80.4 DEGREES FAHRENHEIT
	DESIGN TEMPERATURE SETPOINTS:	
	TYPICAL COMMON AREAS:	
	HEATING-OCCUPIED	70.0 DEGREES FAHRENHEIT
	HEATING-UNOCCUPIED	65.0 DEGREES FAHRENHEIT
	COOLING-OCCUPIED	75.0 DEGREES FAHRENHEIT
	COOLING-UNOCCUPIED	80.0 DEGREES FAHRENHEIT
	RELATIVE HUMIDITY-OCCUPIED	55.0 % (SEE NOTE #1)
	RELATIVE HUMIDITY-UNOCCUPIED	60.0 % (SEE NOTE #1)

NOTES:  
1. SPACE & RELATIVE HUMIDITY MAY NOT BE CONTROLLED IF HUMIDISTAT IS NOT SPECIFIED.

DEMO GENERAL NOTES

A	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNERS REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDINGS OPERATION.
B	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
C	ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.
D	ALL DEMOLITION OF THE EXISTING MECHANICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONTROLS, SUPPORTS, HANGERS, AND EQUIPMENT SHALL BE UNDER SCOPE OF THE MECHANICAL SECTION OF THE SPECIFICATIONS.
E	THE OWNER SHALL HAVE FIRST RITE OF REFUSAL ON ALL EQUIPMENT BEING REMOVED.

MECH. PIPING SYMBOLS

SYMBOL	DESCRIPTION
	BOILER BLOW DOWN
	BOILER FEED WATER
	CONDENSATE DRAIN
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	COOLING TOWER WATER RETURN
	COOLING TOWER WATER SUPPLY
	DOMESTIC COLD WATER PIPING
	HYDRONIC HOT WATER SUPPLY
	HYDRONIC HOT WATER RETURN
	REFRIGERANT LINE SETS
	FUEL OIL FILL
	FUEL OIL RETURN
	FUEL OIL SUPPLY
	FUEL OIL VENT
	STEAM PUMPED CONDENSATE
	STEAM LOW PRESSURE
	STEAM MEDIUM PRESSURE
	VACUUM PUMP DISCHARGE
	PIPE ELBOW UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	CIRCULATING PUMP
	DIRECTION OF FLOW
	DIRECTION OF PIPE PITCH
	BACKFLOW PREVENTER
	FLOW SWITCH
	TAMPER SWITCH
	PRESSURE REGULATOR
	ANGLE VALVE
	AUTOMATIC GAS SHUT-OFF VALVE
	BALANCING AND MEASURING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE (SPRING)
	CHECK VALVE (SWING)
	GATE VALVE
	GLOBE VALVE
	NEEDLE VALVE
	OUTSIDE SCREW AND YOKE VALVE [OS&Y]
	PLUG VALVE
	TRIPLE DUTY VALVE
	PIPE ANCHOR
	PIPE CAP OR PLUG
	PIPE CONCENTRIC REDUCER
	PIPE ECCENTRIC REDUCER
	PIPE EXPANSION JOINT
	PIPE FLEXIBLE CONNECTION
	PIPE GUIDE
	PIPE UNION
	FLOOR DRAIN [PLAN VIEW]
	FLOOR DRAIN [ELEVATION]
	FUNNEL FLOOR DRAIN [PLAN VIEW]
	FUNNEL FLOOR DRAIN [ELEVATION]

MECH. ABBREVIATIONS

ABBREV.	DEFINITION
A	COMPRESSED AIR
AAV	AUTOMATIC AIR VENT
AB	ABSORPTION
AMP	AMPERE
APD	AIR PRESSURE DROP
BD	BALANCING DAMPER
BDD	BACK DRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
C	COMMON
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEAN OUT
COND	CONDENSATE
CONV	CONVECTOR
CRO	CEILING RADIANT HEAT DAMPER
CTF	COOLING TOWER FAN
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
CW	DOMESTIC COLD WATER
[D]	DEMOLISH
DB	DRY BULB TEMPERATURE
DEG	DEGREES
DDC	DIRECT DIGITAL CONTROL
DPR	DAMPEN
[E]	EXISTING
E	EXHAUST GRILLE OR REGISTER
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EXH	EXHAUST
F	DEGREES FAHRENHEIT
FA	FACE AREA
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FCW	FORWARD CURVED WHEEL
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FOS	FUEL OIL SUPPLY
PPM	FEET PER MINUTE
PSA	FIRE AND SMOKE DAMPER W/ ADJUSTABLE LIMITS
PSD	FIRE AND SMOKE DAMPER
FV	FACE VELOCITY
FVC	FIRE VALVE CABINET
G	NATURAL GAS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HO	HUB OUTLET
HP	HORSEPOWER
HTG	HEATING
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HYD	HYDRANT
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF&B	INTEGRAL FACE AND BYPASS DAMPER
INLET	INTERNAL STATIC PRESSURE
ISP	INTERNAL STATIC PRESSURE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB5/HR	POUNDS PER HOUR
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MH	MANHOLE
MOD	MOTOR OPERATED DAMPER
MV	MANUAL AIR VENT
N	NITROGEN
NPCW	NON POTABLE COLD WATER
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
OS&Y	OUTSIDE SCREW AND YOKE
OV	OUTLET VELOCITY
PA	PIPE ANCHOR
PC	PUMPED CONDENSATE
PD	PRESSURE DROP (FEET OF WATER)
PG	PIPE GUIDE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSI	POUNDS PER SQUARE INCH - GAUGE
R	RETURN GRILLE OR REGISTER
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RS	ROOF SUMP
RS	REFRIGERANT SUCTION
S	SUPPLY AIR DIFFUSER OR GRILLE
SA	SUPPLY AIR
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SpGr	SPECIFIC GRAVITY
SPF	SMOKE PRESSURIZATION FAN
SPS	STATIC PRESSURE SENSOR
STK	STACK
TC	TEMPERATURE CONTROL
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANES
UG	UNDER GROUND
VAC	VACUUM
VE	VOLUME EXTRACTOR
VI	VEHICLE ISOLATOR
WB	WET BULB TEMPERATURE
WG	WATER GAUGE

MECH. SYMBOLS

SYMBOL	DESCRIPTION
	RECTANGULAR TAKE-OFF [SINGLE LINE]
	RECTANGULAR TAKE-OFF [DOUBLE LINE]
	ROUND TAKE-OFF [SINGLE LINE]
	ROUND TAKE-OFF [DOUBLE LINE]
	SPIN-IN FITTING [WITH VOLUME DAMPER]
	RECTANGULAR ELBOW [WITH TURNING VANES]
	RADIUS RECTANGULAR ELBOW
	RADIUS ROUND ELBOW
	RECTANGULAR ELBOW UP
	ROUND ELBOW UP
	RECTANGULAR ELBOW DOWN
	ROUND ELBOW DOWN
	CONCENTRIC TRANSITION [SINGLE LINE]
	CONCENTRIC TRANSITION [DOUBLE LINE]
	ECCENTRIC TRANSITION [SINGLE LINE]
	ECCENTRIC TRANSITION [DOUBLE LINE]
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT CONNECTION TO SUPPLY DIFFUSER
	SUPPLY DIFFUSER
	LINEAR SLOT DIFFUSER
	RETURN OR EXHAUST GRILLE
	SIDEWALL GRILLE OR REGISTER
	TRANSFER GRILLE
	CROSS SECTION OF SUPPLY AIR DUCT
	CROSS SECTION OF RETURN AIR DUCT
	CROSS SECTION OF EXHAUST AIR DUCT
	CROSS SECTION OF OUTDOOR AIR DUCT
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE AND SMOKE DAMPER
	COMBINATION FIRE AND SMOKE ADJUSTABLE DAMPER
	BALANCING DAMPER [MANUALLY ADJUSTABLE]
	MOTORIZED DAMPER
	BACK DRAFT DAMPER - GRAVITY DAMPER
	CEILING RADIANT HEAT DAMPER
	POWER BALANCE DAMPER
	THERMOSTAT
	HUMIDISTAT
	TEMPERATURE SENSOR

MOUNTING HEIGHTS

STANDARD MOUNTING HEIGHTS

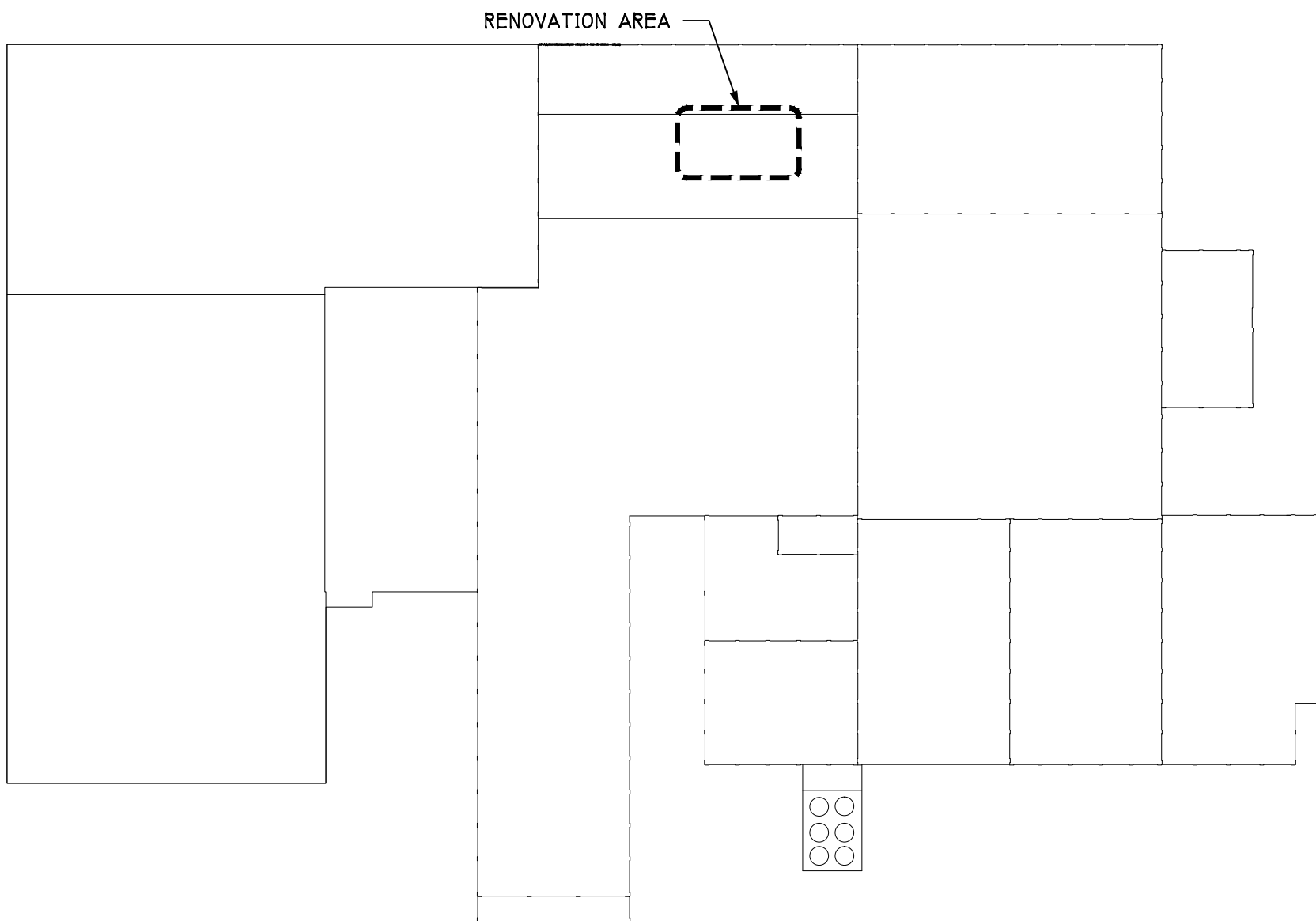
5'-0" THERMOSTATS LOCATED IN NON-ADA GUESTROOMS, AND NON-ADJUSTABLE AND NON- REPORTING TEMPERATURE, HUMIDITY AND CO2 SENSORS.

4'-0" THERMOSTATS, HUMIDISTATS, HVAC CONTROLS.

0-0" FINISHED FLOOR

CUSTOM MOUNTING HEIGHTS  
(APPLIES TO OTHER DEVICES NOT SHOWN HERE)

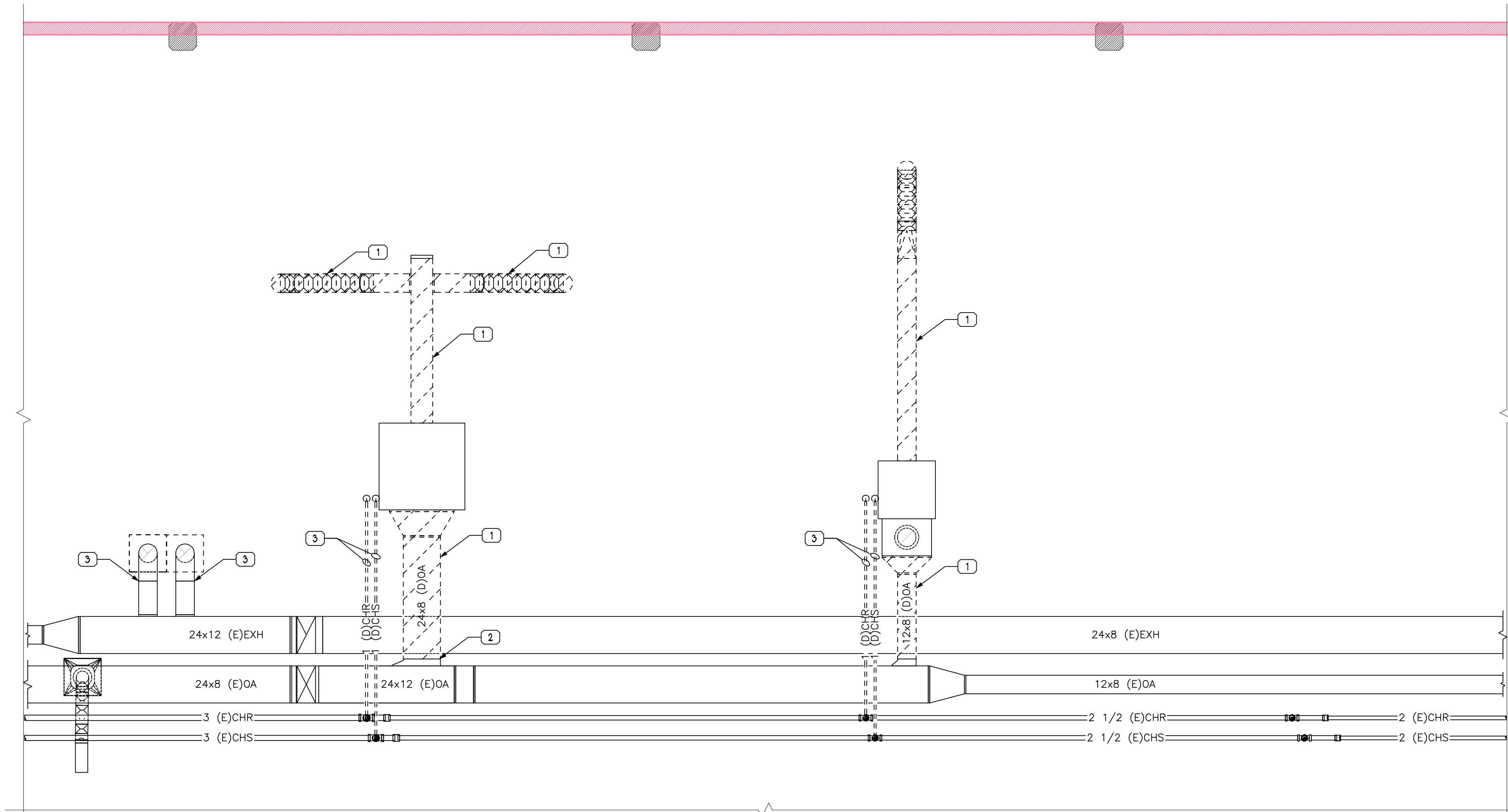
SCHEDULE NOTES:  
1. MOUNTING HEIGHTS TO TOP OF DEVICES UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.  
2. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.



MECHANICAL KEY PLAN

NOT TO SCALE

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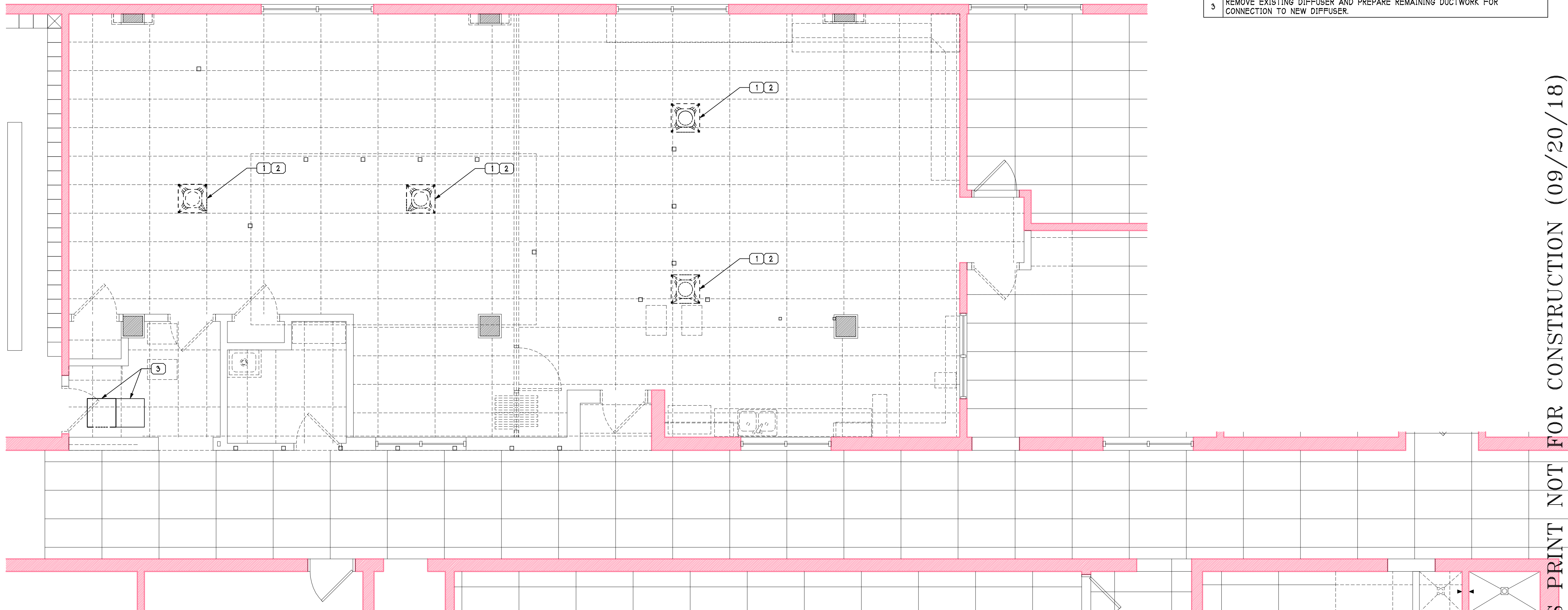


NOTE: BALANCE EXISTING SYSTEM PRIOR TO PERFORMING WORK TO OBTAIN PRE WORK  
QUANTITIES FOR USE IN RE-BALANCEING O F SYSTEM AFTER COMPLETING WORK.

**MECH MEZZ DEMOLITION PLAN**

1/4" = 1'-0"

DEMO KEYED NOTES XX	
1	REMOVE EXISTING DUCTWORK AND SEAL REMAINING OPENING ON MAIN DUCTWORK.
2	CAP AND SEAL REMAINING DUCTWORK PENETRATION AIR TIGHT AND INSULATE EQUIVALENT TO EXISTING.
3	REMOVE EXISTING PIPING BACK TO MAINS AND CAP.



NOTE: BALANCE EXISTING SYSTEM PRIOR TO PERFORMING WORK TO OBTAIN PRE WORK  
QUANTITIES FOR USE IN RE-BALANCEING O F SYSTEM AFTER COMPLETING WORK.

**MECHANICAL DEMOLITION PLAN**

1/4" = 1'-0"

DEMO KEYED NOTES XX	
1	REMOVE EXISTING DIFFUSER AND ASSOCIATED DUCTWORK UP TO MEZZANINE.
2	PATCH EXISTING FLOOR/CEILING PRECAST CONCRETE SLAB WITH SOLID REINFORCED GROUT PATCH. COORDINATE WORK WITH STRUCTURAL TRADES.
3	REMOVE EXISTING DIFFUSER AND PREPARE REMAINING DUCTWORK FOR CONNECTION TO NEW DIFFUSER.

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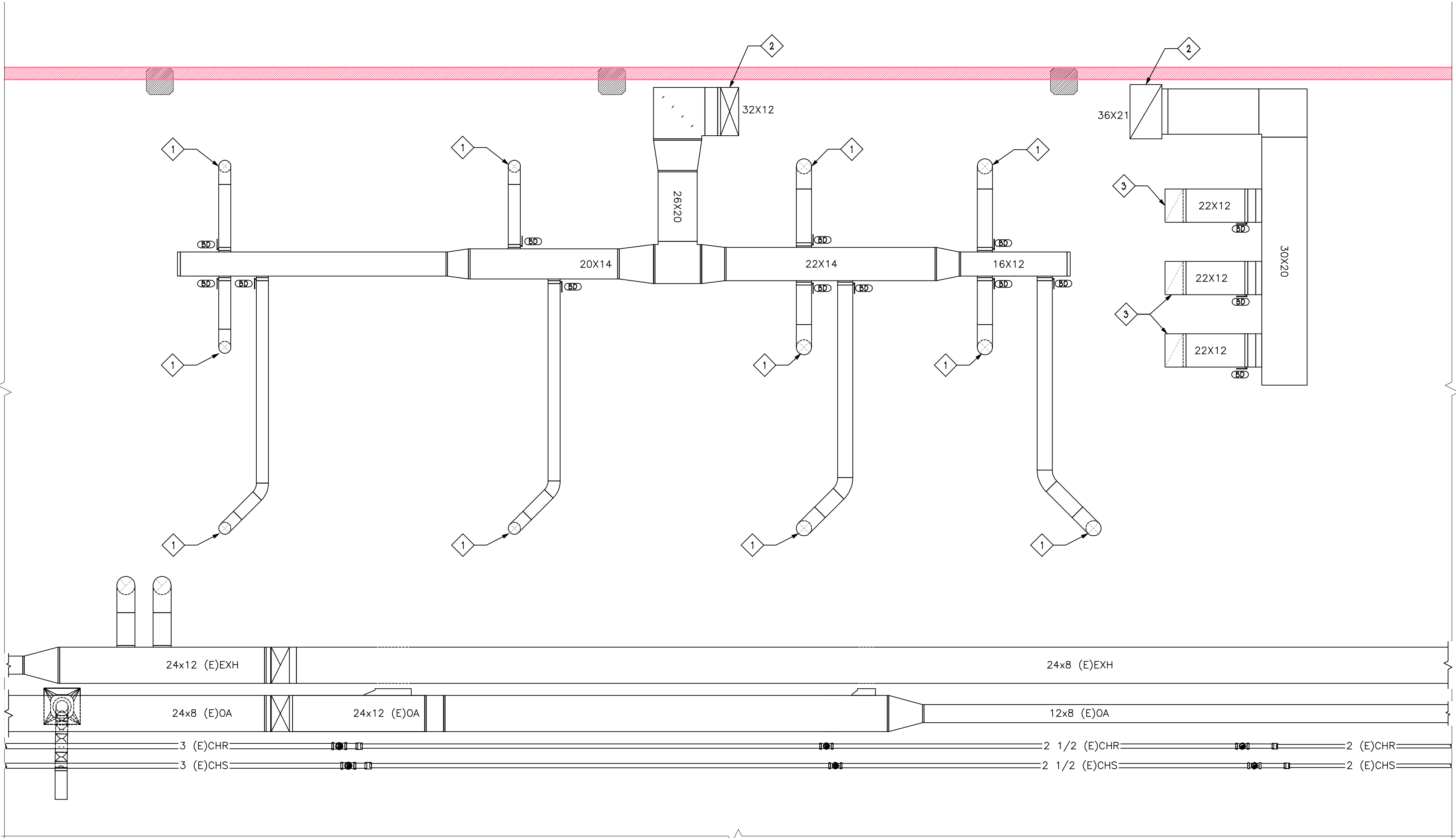
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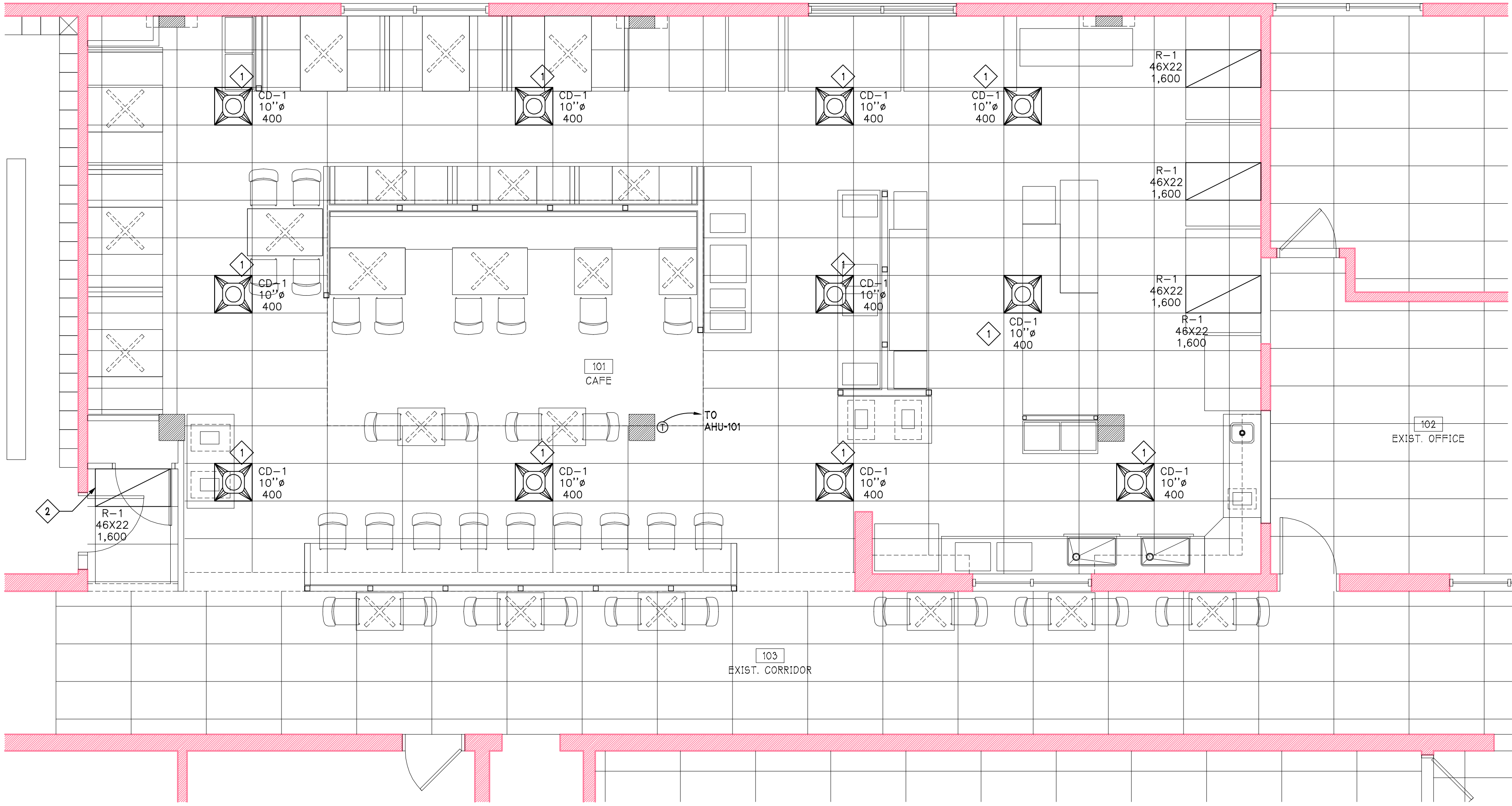
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MECH MEZZANINE RENOVATION PLAN

1/4" = 1'-0"



MECHANICAL RENOVATION PLAN

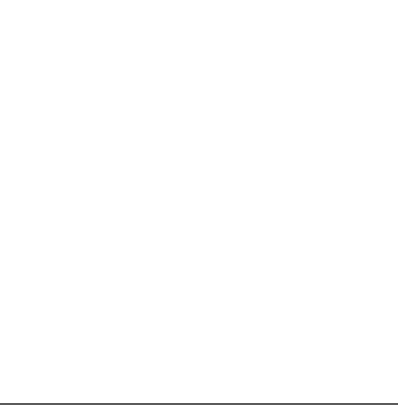
1/4" = 1'-0"

SHEET KEYED NOTES	
1	ROUTE DUCTWORK DOWN THROUGH EXISTING CONCRETE PLANK. COORDINATE HOLES WITH STRUCTURAL STRANDS. SEAL SPACE BETWEEN DUCT AND HOLE EDGE WITH FOOD SAFE CAULK.
2	ROUTE DUCTWORK UP THROUGH ROOF TO ROOF MOUNTED EQUIPMENT. REFER TO ROOF PLAN FOR CONTINUATION.
3	ROUTE DUCTWORK DOWN THROUGH EXISTING CONCRETE PLANK AND TERMINATE IN BELOW CEILING SPACE. COORDINATE HOLES WITH STRUCTURAL STRANDS. SEAL SPACE BETWEEN DUCT AND WHOLE EDGE WITH FOOD SAFE CAULK.
4	ROUTE EXHAUST DUCT UP THROUGH DOUBLE-TEE. SEAL PENETRATION AIR TIGHT.

RENOVATION KEYED NOTES	
1	ROUTE BRANCH DUCTWORK UP THROUGH EXISTING CONCRETE PLANK. USE INSULATED FLEX DUCTWORK FROM DIFFUSER TO PLANK. REFER TO MEZZANINE PLAN FOR CONTINUATION.
2	CONNECT TO EXISTING EXHAUST DUCTWORK VACATED BY PREVIOUS DEMOLITION WORK.
3	ROUTE EXHAUST DUCT ABOVE LAY-IN CEILING TO NEAREST EXHAUST DUCTWORK AND CONNECT. FIELD VERIFY EXISTING CONDITIONS AND MODIFY DUCTWORK AS REQUIRED TO MAKE CONNECTION. COORDINATE WITH ENGINEER, OWNER, AND BALANCER.

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MECHANICAL  
RENOVATION  
PLAN

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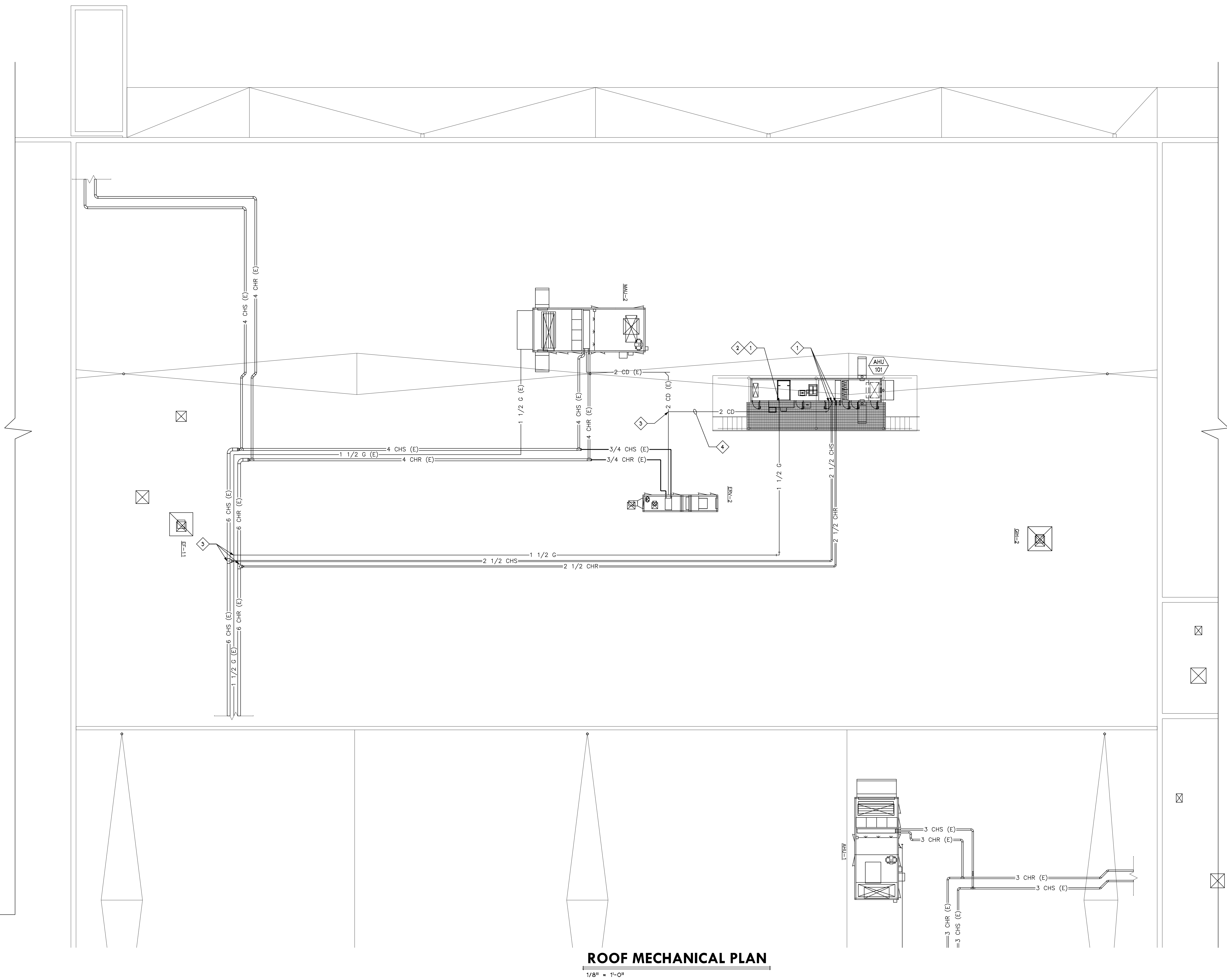
**Drawing Title:**  
ROOF  
MECHANICAL  
PLAN

Sheet No.

M102

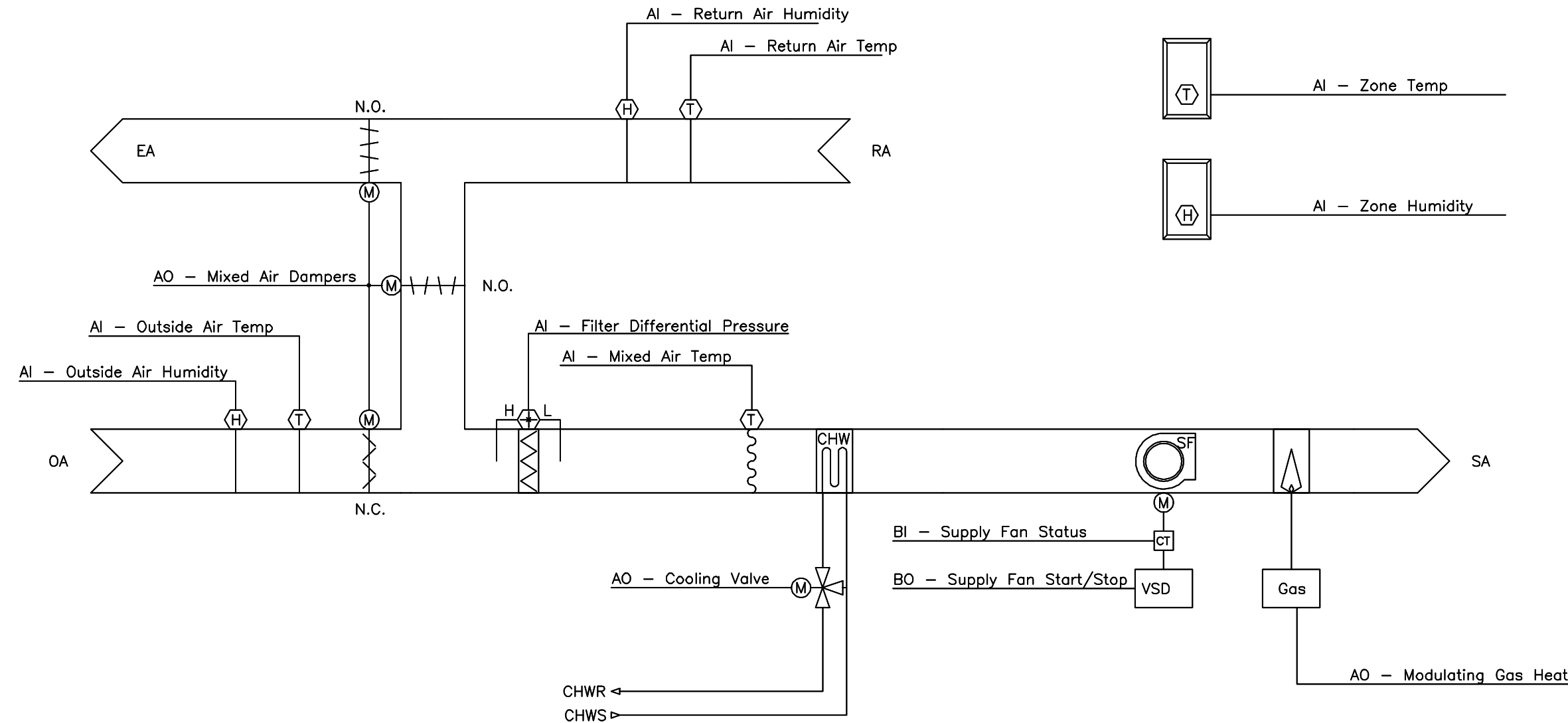
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SHEET KEYED NOTES 	
1	MAKE FINAL CONNECTION TO MECHANICAL UNIT.
2	INCLUDE GAS REGULATOR TO STEP PRESSURE DOWN FROM 5 PSI TO 10" OF WC.
3	CONNECT NEW PIPING TO EXISTING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
4	PROVIDE HEAT TRACE AND INSULATION FOR CONDENSATE PIPING. COORDINATE WORK WITH ELECTRICAL TRADES.



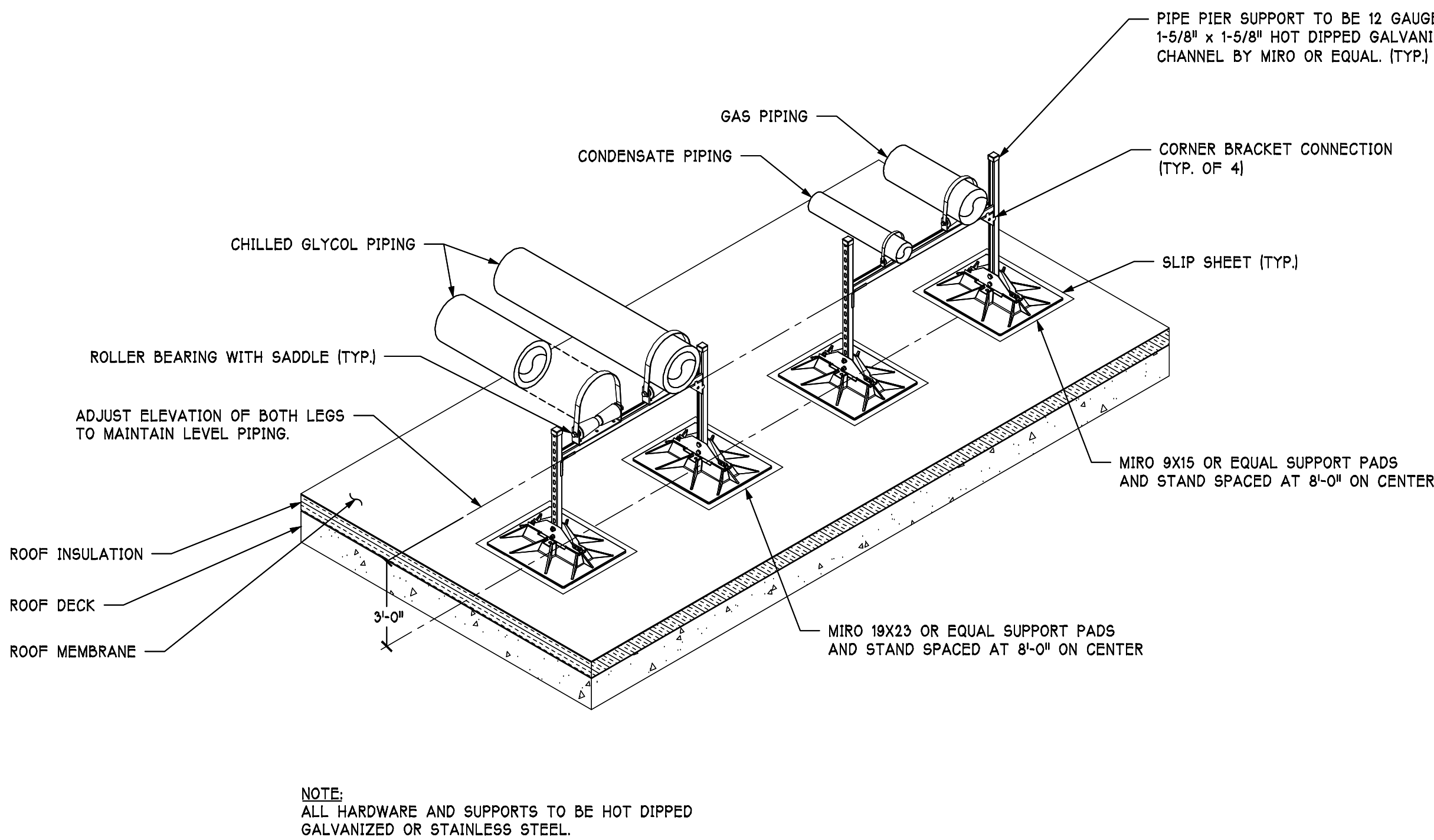
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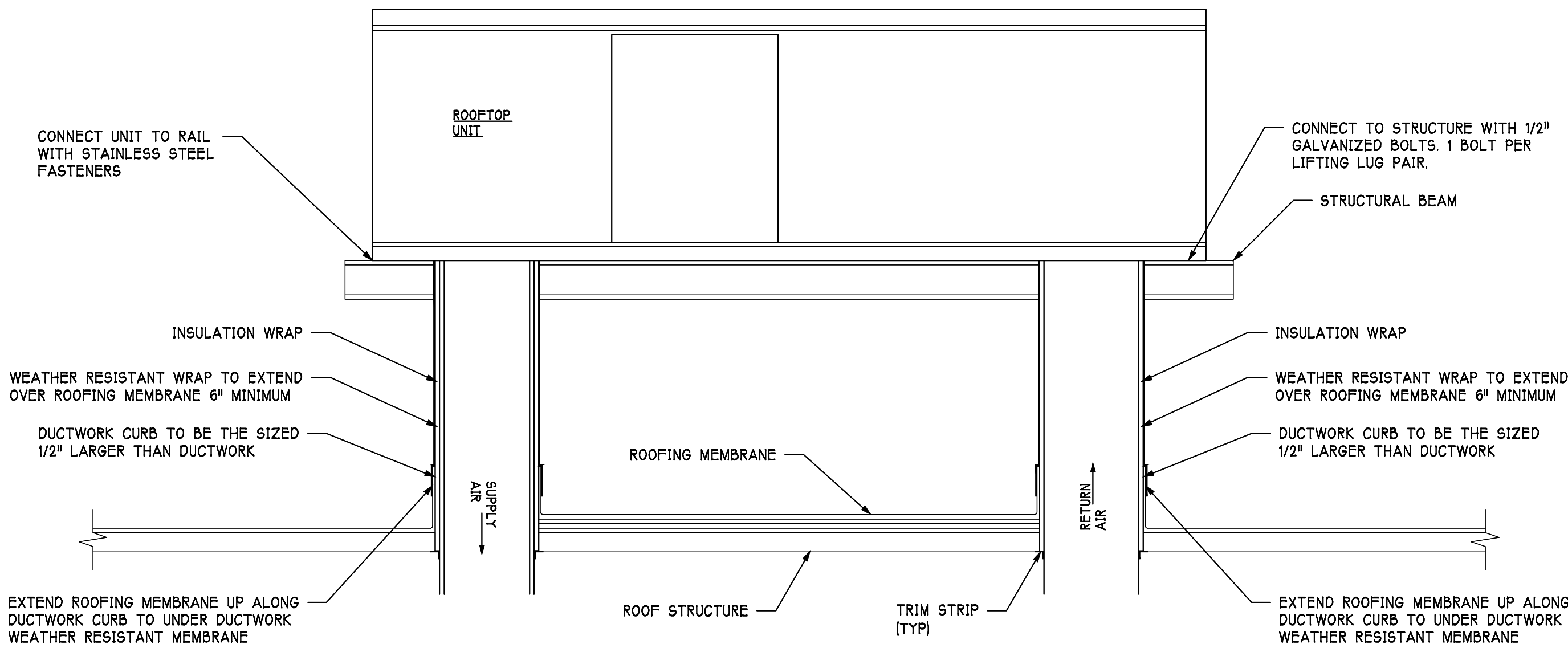
**AHU-101 CONTROL SCHEMATIC**

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**ROOF MOUNTED PIPING STAND DETAIL**

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**ROOFTOP EQUIPMENT MOUNTING AND DUCTWORK PENETRATION DETAIL**

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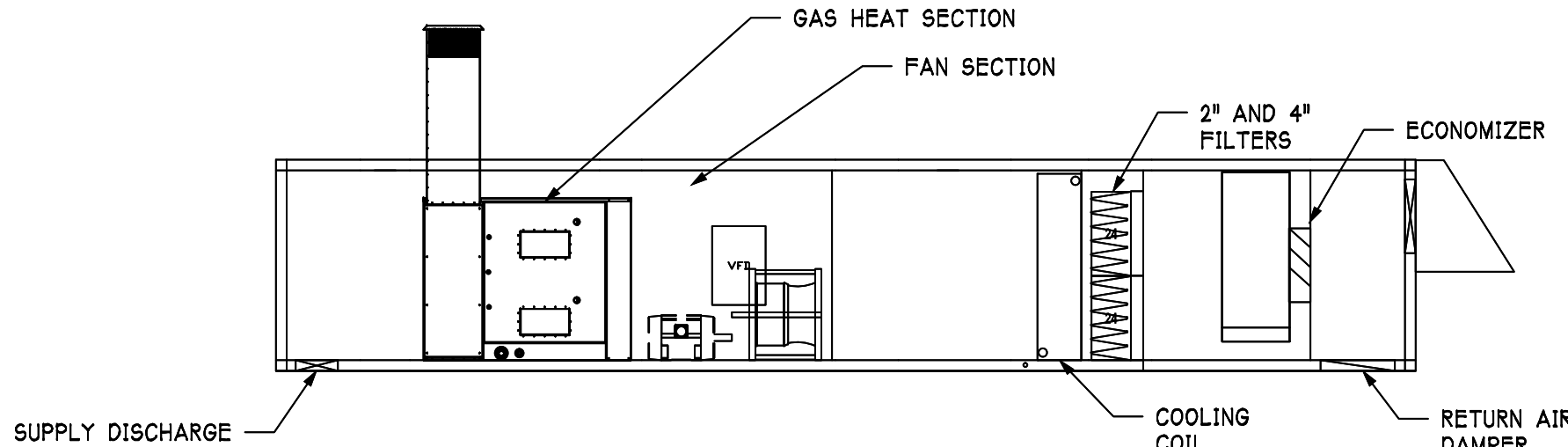
ROOFTOP AIR HANDLING UNIT (HYDRONIC COOL & GAS HEAT) SCHEDULE																							
TAG	FLOW RATE		E.S.P.	HYDRONIC COOLING										GAS HEATING		FAN	ELECTRICAL DATA		BASIS OF DESIGN			WEIGHT	NOTES
	SUPPLY	OA		TOTAL	SENSIBLE	FLOW RATE	MAX WPD	AIR (DEG-F)				WATER (DEG-F)		INPUT	OUTPUT	MOTOR	MCA	VOLTAGE					
	CFM	CFM		IN WG	MBH	MBH	GPM	FEET	EAT DB	EAT WB	LAT DB	LAT WB	EWI	LWT	MBH	MBH	HP	AMPS		MANUFACTURER	MODEL #		
AHU-101	4,400	825	1.25	171	127.1	36.3	13.1	76.0	64.0	52.0	51.0	45	55	250	200	7 1/2	0.0	480/3/60	YORK	SOLUTION XT	6,500	--	

NOTES:  
 1. CHILLED WATER IS 30% PROPYLENE GLYCOL.

FAN SCHEDULE													
TAG	FLOW RATE	FAN		E.S.P.	MOTOR			SONES	ELECTRICAL	BASIS OF DESIGN		WEIGHT	NOTES
	CFM	TYPE	BLADE	IN WG	RPM	HP	WATTS		VOLTAGE	MANUFACTURER	MODEL #	LBS	

NOTES:  
 1. PROVIDE STEP DOWN TRANSFORMER FROM 277 VOLT TO 120 VOLT.

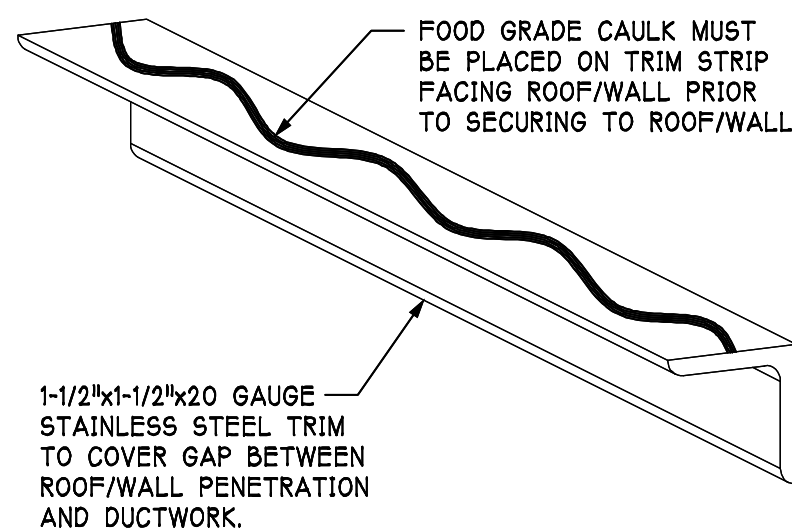
GRILLES REGISTERS AND DIFFUSERS SCHEDULE						
TAG	DESCRIPTION	CONSTRUCTION		BASIS OF DESIGN		
		FINISH	MATERIAL	ACCESSORY	MANUFACTURER	MODEL NUMBER
CD-1	SQUARE PLAQUE DIFFUSER	WHITE	ALUMINUM	-	PRICE	ASPD
R-1	PERFORATED DIFFUSER	WHITE	ALUMINUM	-	PRICE	APD



NOTE:  
 CENTER TO CENTER DISTANCE FROM SUPPLY OPENING TO RETURN OPENING TO BE 23'-0"

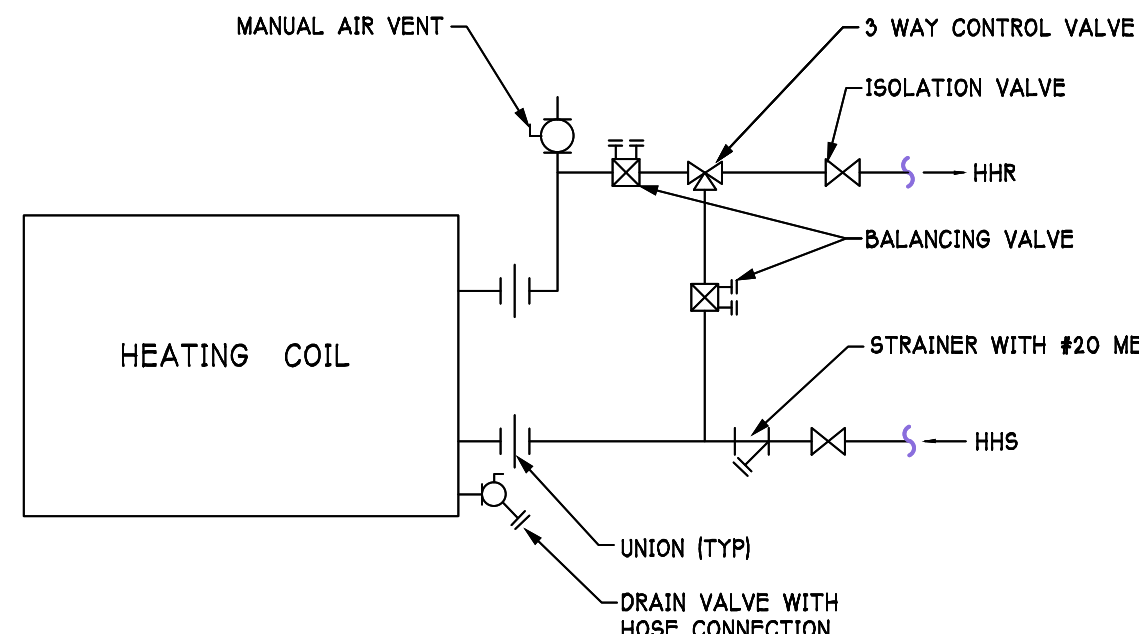
**AHU- 101**

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**TRIM STRIP CAULKING DETAIL**

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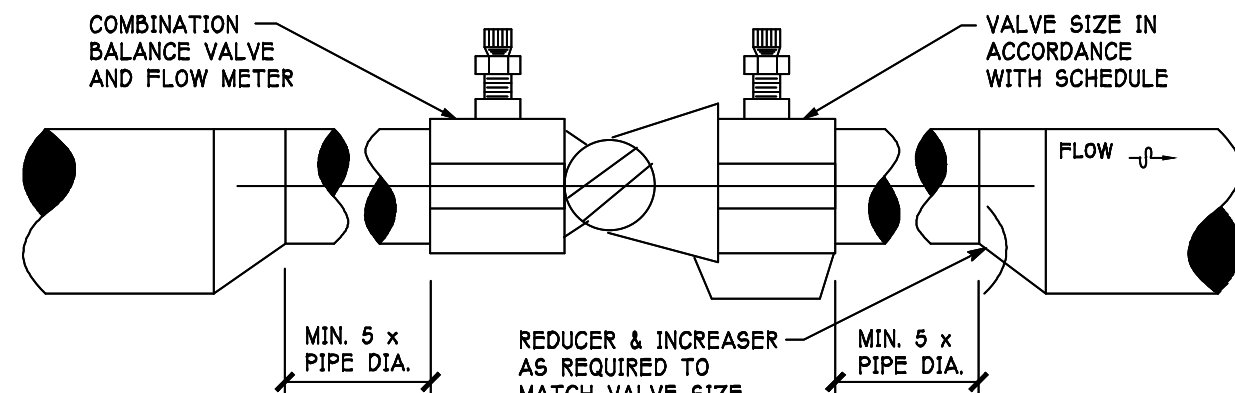


**COOLING COIL PIPING DETAIL**

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**VALVE SIZING SCHEDULE**

GPM	VALVE SIZE
0.5 - 2.0	1/2"
2.1 - 4.0	3/4"
4.1 - 8.0	1"
8.1 - 20.0	1-1/4"
20.1 - 30.0	1-1/2"
30.1 - 65.0	2"
65.0 - 100.0	2-1/2"
100.1 - 100.0	3"



NOTES:  
 1. ALL VALVES BASED ON 15 & 6 CIRCUIT SETTER\*  
 2. GPM LOWER LIMIT BASED ON A MINIMUM SET POINT OF BETWEEN 0 AND 15 WHEREBY A MIN 1 FOOT HEAD LOSS CAN BE READ.

**CIRCUIT SETTER DETAIL**

NOT TO SCALE

**HANGER SPACING**

MATERIAL	PIPE SIZE	MAX. ALLOWABLE SPACING	
		HORIZONTAL	VERTICAL
ABS PIPE	ALL	4'	10'
CAST-IRON PIPE	ALL	6'	10'
COPPER OR COPPER ALLOY TUBING	1-1/4" AND SMALLER	6'	6'
	1-1/2" AND LARGER	10'	10'
CROSS-LINKED POLYETHYLENE (PEX) PIPE	ALL	32"	10'
CROSS-LINKED POLYETHYLENE/ALUMINUM/POLYETHYLENE (PEX-AL-PEX) PIPE	ALL	32"	4'
CPVC PIPE OR TUBING	1" AND SMALLER	3'	10'
	1-1/4" AND LARGER	4'	10'
STEEL PIPE	ALL	10'	10'
PB PIPE OR TUBING	ALL	32"	4'
POLYETHYLENE/ALUMINUM /POLYETHYLENE PIPE (PE-AL-PE) PIPE	ALL	32"	4'
PVC PIPE	ALL	4'	10'

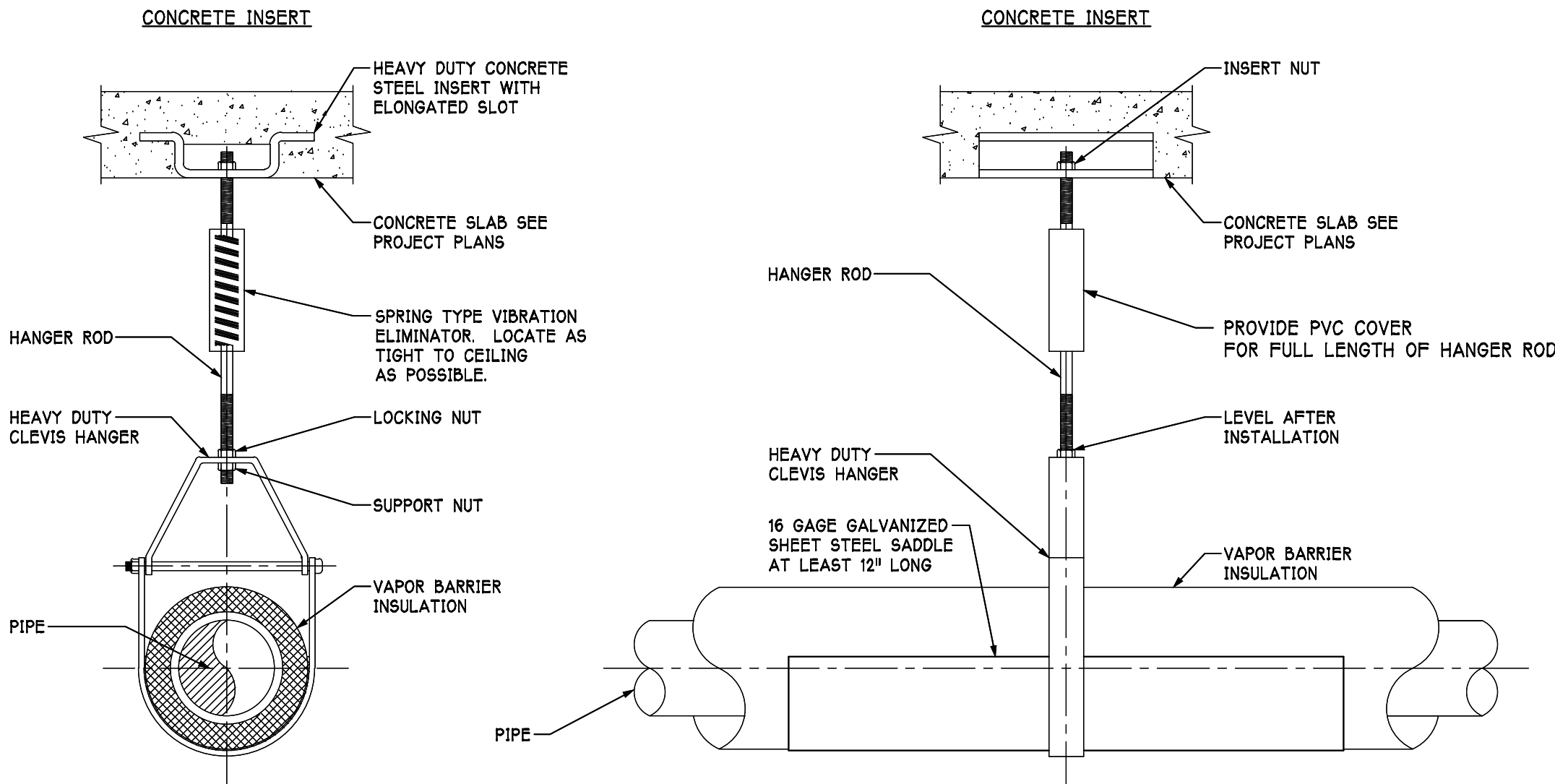
NOTES:  
 1. FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE ON TRAPEZE.  
 2. THE SPACING SHOWN IN SCHEDULE IS MAXIMUM SPACING PIPE WILL SPAN.  
 3. THE HANGER SUPPORTS AND STRUCTURAL ELEMENTS OF THE BUILDING SHOULD BE CHECKED FOR LOAD SUPPORT.  
 4. SPACING MAY HAVE TO BE REDUCED TO LIGHTEN LOAD ON CERTAIN HANGER SUPPORTS.

**HANGER ROD SCHEDULE**

PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.
2 1/2" THRU 3"	1/2" DIA.	6" THRU 12"	7/8" DIA.

**CLEVIS HANGER DETAIL**

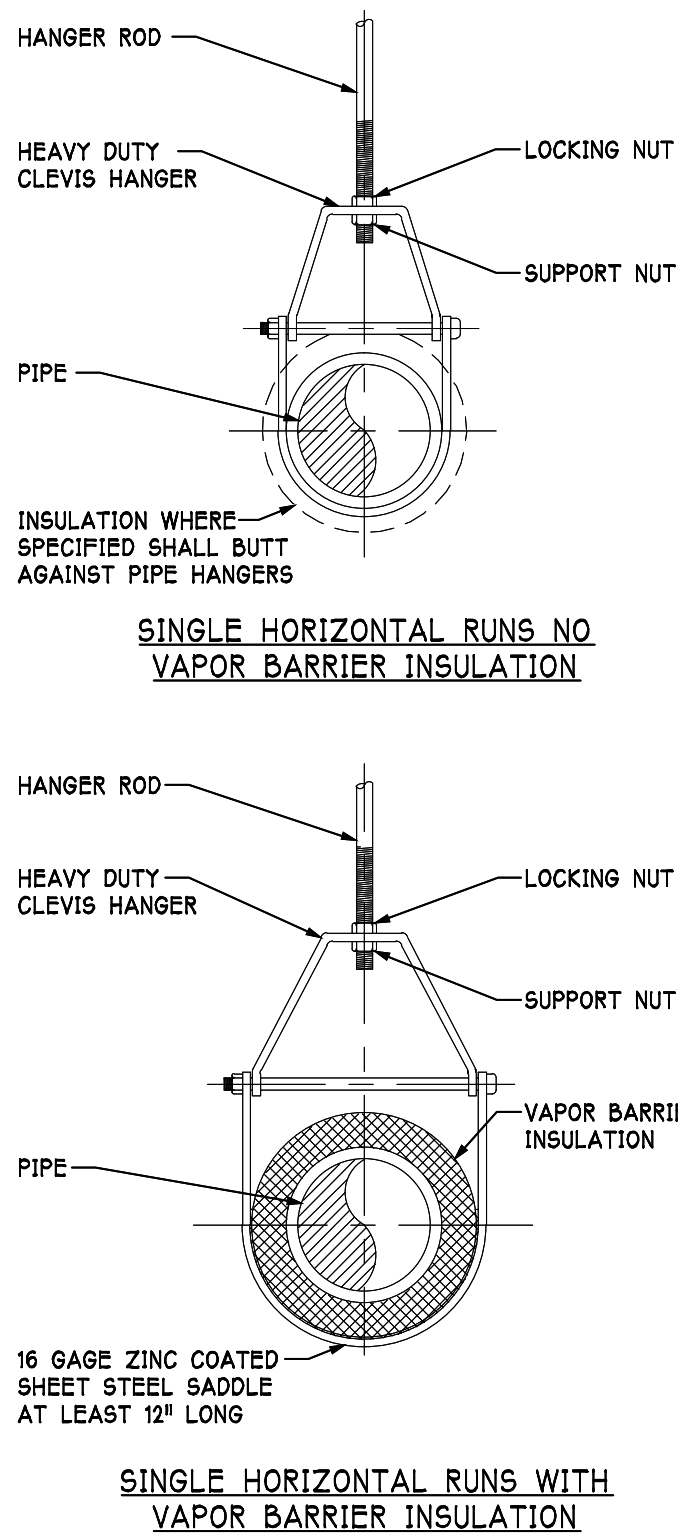
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NOTE:  
 CONDENSER WATER PIPES NEAR CHILLER SHALL BE HUNG WITH VIBRATION ELIMINATOR PIPE HANGERS AS DETAILED. INSERT A STRIP OF FELT BETWEEN CLEVIS HANGER AND PIPE.

**CHILLED WATER PIPE HANGER DETAIL**

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Job No: 1730  
 Drawn: MAB  
 Checked: SCP

**Revisions:**

No: Date:

No: Date:

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NEWCOMER ASSOCIATES  
 architecture + engineering

Martin's Famous Pastry Shoppe  
 Transportation Cafe

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Drawing Title:  
 MECHANICAL  
 DETAILS AND  
 SCHEDULES

Sheet No.

**M201**

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MOUNTING HEIGHTS	
STANDARD MOUNTING HEIGHTS	
4" BELOW FINISH CEILING	EXIT AND EGRESS LIGHT FIXTURES WHEN STANDARD HEIGHT AND FIXTURE IS IN CONFLICT WITH CEILING HEIGHT.
8'-6"	PENDANT-HUNG INDUSTRIAL AND STRIP LIGHTING FIXTURES. (UNLESS OTHERWISE NOTED)
7'-6"	TOP OF WALL MOUNTED EXIT AND EGRESS LIGHTING FIXTURES (NOT MOUNTED ABOVE DOORS)
CENTERED ABV. DOOR/WINDOW OPENING	EGRESS LIGHTING, EXIT LIGHTS, WARNING, AND SIGNALING FIXTURES/SIGNS WHEN CEILING HEIGHT IS 9'-0" OR LESS
6'-8"	ILLUMINATED FIRE SIGNALS (SEE NOTE #3)
6'-6"	TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL PANEL BOARDS AND TELEPHONE CABINETS
6'-0"	TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETIC STARTERS, AND CONTACTORS
4'-0"	LIGHTING SWITCHES, MANUAL MOTOR STARTERS, AND DISCONNECTS (TOP OF DEVICE)
4'-0"	FIRE ALARM PULL STATIONS THERMOSTATS, INTERCOM PHONES, CARD READERS AND FIRE ALARM REMOTE ANNUNCIATORS (TOP OF DEVICE)
3'-6"	WALL-MOUNTED TELEPHONES AND PAY STATIONS
2'-0"	ELECTRICAL RECEPTACLES WITHIN MECHANICAL SPACES, ELECTRICAL AND ELEVATOR ROOMS
18"	ELECTRICAL RECEPTACLES, TELEPHONE OUTLETS, AND VOICE/DATA
12"	GUEST ROOM RECEPTACLES, TELEPHONE OUTLETS, AND VOICE/DATA
00"	FINISHED FLOOR

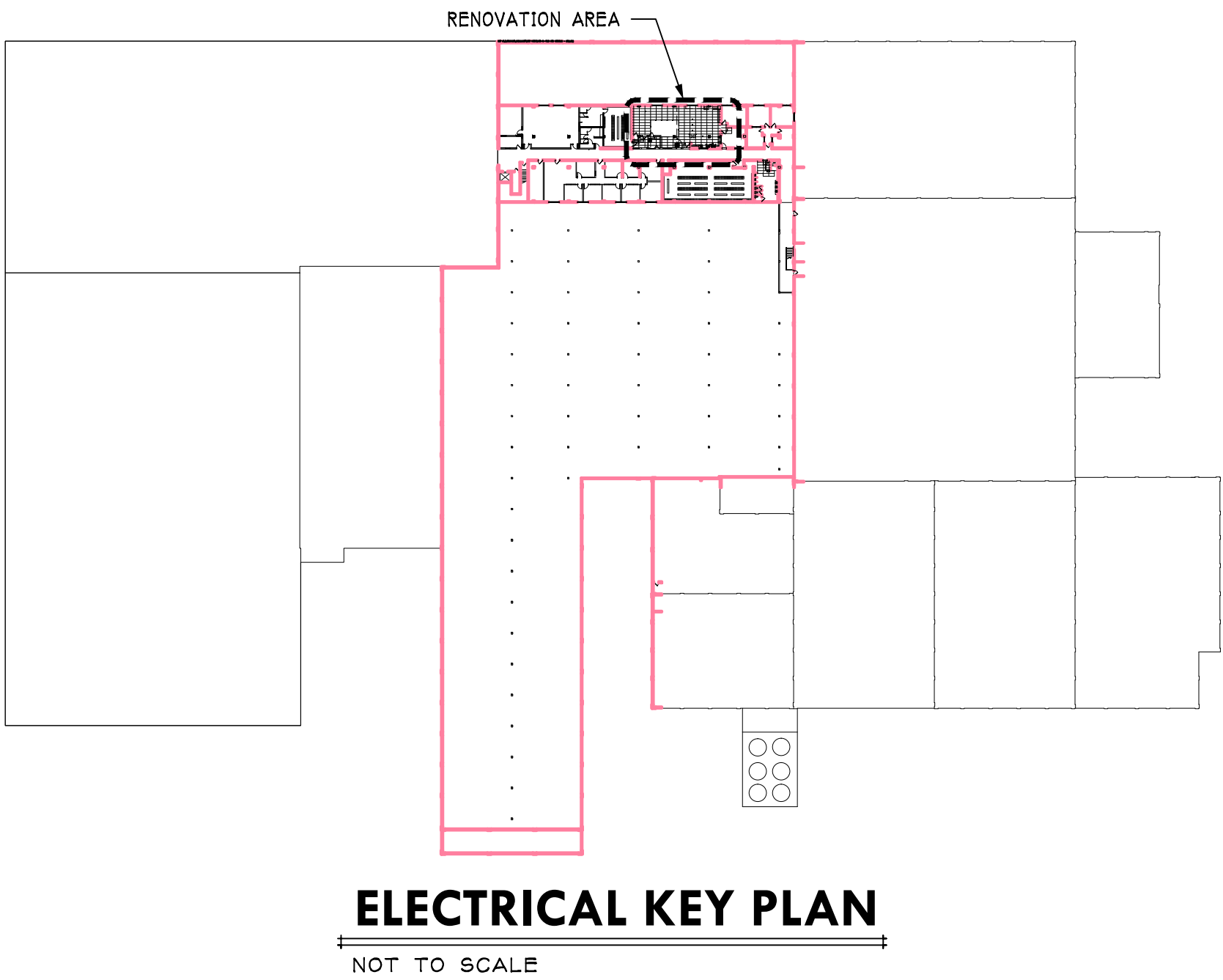
CUSTOM MOUNTING HEIGHTS (APPLIES TO OTHER DEVICES NOT SHOWN HERE)	
	# DENOTES MOUNTING HEIGHT ABOVE FINISHED FLOOR IN INCHES TO CENTER OF OUTLET OR BOTTOM OF LUMINAIRE
	ACI DENOTES MOUNTING 2' TO BOTTOM OF BOX MEASURED FROM ARCHITECTURAL BACK SPLASH OR COUNTER TOP, IF MISSING BACK SPLASH. TOP OF BOX TO BE NO HIGHER THAN 46" ABOVE FINISHED FLOOR. REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS
<b>SCHEDULE NOTES:</b> 1. MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING. 2. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS. 3. NFPA-72 MOUNTING RANGE IS BETWEEN 80" TO 96" ABOVE FINISHED FLOOR. DEVICES TO BE MOUNTED AT 80" ABOVE FINISHED FLOOR UNLESS IN CONFLICT WITH A MINIMUM OF 6" SEPARATION BETWEEN DEVICE AND CEILING, AND ALL LIKE DEVICES IN SPACE TO BE MOUNTED AT SAME ELEVATION.	

TYPICAL BRANCH CIRCUIT WIRE SIZE TABLE						
BREAKER RATING (AMPS)	WIRE SIZE AND QUANTITY					CONDUIT (INCHES)
	120V-1Ø	208V-1Ø (1)	208V-3Ø	277V-1Ø	480V-3Ø	
20	2-#12, #12G	2-#12, #12G	3-#12, #12G	2-#12, #12G	3-#12, #12G	3/4
30	2-#10, #10G	2-#10, #10G	3-#10, #10G	2-#10, #10G	3-#10, #10G	3/4
40	2-#8, #10G	2-#8, #10G	3-#8, #10G	2-#8, #10G	3-#8, #10G	3/4
50	2-#8, #10G	2-#8, #10G	3-#8, #10G	2-#8, #10G	3-#8, #10G	3/4
60	2-#6, #10G	2-#6, #10G	3-#6, #10G	2-#6, #10G	3-#6, #10G	1
70	2-#4, #8G	2-#4, #8G	3-#4, #8G	2-#4, #8G	3-#4, #8G	1 1/4
80	2-#4, #8G	2-#4, #8G	3-#4, #8G	2-#4, #8G	3-#4, #8G	1 1/4
90	2-#3, #8G	2-#3, #8G	3-#3, #8G	2-#3, #8G	3-#3, #8G	1 1/4
100	2-#3, #8G	2-#3, #8G	3-#3, #8G	2-#3, #8G	3-#3, #8G	1 1/4
125	2-#1, #6G	2-#1, #6G	3-#1, #6G	2-#1, #6G	3-#1, #6G	1 1/2
150	2-1/0, #6G	2-1/0, #6G	3-1/0, #6G	2-1/0, #6G	3-1/0, #6G	2
175	2-2/0, #6G	2-2/0, #6G	3-2/0, #6G	2-2/0, #6G	3-2/0, #6G	2

FOOT NOTE (1): INCLUDE 100% SIZED NEUTRAL IF EQUIPMENT AND OR NEC REQUIRES

GENERAL TABLE NOTES:

- THE ABOVE WIRE AND CONDUIT SIZES ARE FOR REFERENCE ONLY.
- THIS TABLE IS BASED ON 2008 NEC USING COPPER WIRE RATED AT 75 DEG. CELSIUS AND EMT CONDUIT.
- FARTHEST DEVICE ON A CIRCUIT SHALL NOT EXCEED A VOLTAGE DROP OF 3%. CONTRACTOR TO INCREASE WIRE AND CONDUIT SIZE TO ACHIEVE 3% DROP OR LESS. CONTRACTOR RESPONSIBLE FOR CALCULATIONS AND MEASUREMENTS.



ELEC. ABBREVIATIONS	
ABBREV.	DEFINITION
AC	ABOVE COUNTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFG	ABOVE FINISH GRADE
AIC	AVAILABLE INTERRUPTING CURRENT (AMPS)
AL	ALUMINUM CONDUCTORS
ATS	AUTOMATIC TRANSFER SWITCH
CATV	CABLE TV
CCTV	CLOSE CIRCUIT TV
DB	DATA BACKBOARD
(E)	EXISTING ELECTRICAL EQUIPMENT OR WORK
EMERG	EMERGENCY
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
(N)	NEW ELECTRICAL EQUIPMENT OR WORK
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NL	NIGHT LIGHT
OS	OCCUPANCY SENSOR
PACK	BATTERY PACK
(R)	RELOCATED EXISTING ELECTRICAL EQUIPMENT
(R&R)	REMOVE AND RELOCATE
RGS	RIGID GALVANIZED STEEL
TB	TELEPHONE BACKBOARD
TEOP	TELEPHONE EQUIPMENT DISTRIBUTION PANEL
WP	WEATHER PROOF

PHONE/DATA/TV SYMBOLS	
SYMBOL	DESCRIPTION
	TELEPHONE OUTLET
	TELEPHONE OUTLET FOR WALL PHONE
	TELEPHONE OUTLET FOR DEDICATED HOUSE PHONE
	WALL MOUNTED DEDICATED HOUSE PHONE
	TELEPHONE OUTLET, MOUNTED HORIZONTALLY
	TELEPHONE OUTLET, FLOOR MOUNT
	DATA OUTLET
	DATA OUTLET, MOUNTED HORIZONTALLY
	DATA OUTLET, FLOOR MOUNTED
	COMBINATION DATA AND PHONE OUTLET
	WIRELESS ACCESS POINT 10' OR ROLLED DATA CABLE ABOVE CEILING WITH SURFACE MTD JUNCTION BOX
	TV. OUTLET
	PHOTOCELL
	WALL MOUNTED SPEAKER
	CEILING MOUNTED SPEAKER
	SECURITY CAMERA LOCATION
<b>SCHEDULE NOTES:</b> 1. EACH COMMUNICATION JACK TO HAVE AN INDEPENDENT HOME RUN CABLE. DO NOT GANG MULTIPLE JACKS ONTO ONE CABLE. 2. (#) INDICATES A MULTI-TERMINATION OUTLET. NUMBER OF TERMINATIONS AS INDICATED. 3. CAMERA LOCATION TO INCLUDE SINGLE GANG JUNCTION BOX, 3/4" CONDUIT, AND PULL CORD TO HOME RUN AS INDICATED.	

ELEC. LIGHTING SYMBOLS	
SYMBOL	DESCRIPTION
	*A* TYPICAL LUMINAIRE TAG (-EM = EMERGENCY BATTERY PACK)
	RECESSED 2x4 FLUORESCENT TROFFER
	EMERGENCY RECESSED 2x4 TROFFER
	RECESSED 2x2 FLUORESCENT TROFFER
	EMERGENCY RECESSED 2x4 TROFFER
	STRIP FLUORESCENT LIGHT
	EMERGENCY STRIP FLUORESCENT LIGHT
	RECESSED DOWN LIGHT
	EMERGENCY RECESSED DOWN LIGHT
	WALL MOUNTED LINEAR FLUORESCENT LIGHT
	WALL MOUNTED LINEAR FLUORESCENT LIGHT
	SURFACE MOUNTED DOME LIGHT
	EMERGENCY SURFACE MOUNTED DOME LIGHT
	ROUND PENDENT LIGHT
	LINEAR PENDENT LIGHT
	COVE LIGHTS AND LIGHTS BY LENGHT
	WALL SCOSCE
	SURFACE/RECESSED HID LIGHT
	FLOOD LIGHT
	BOLLARD LIGHT
	CEILING MOUNTED EXIT SIGN, ARROWS AS INDICATED, SHADED SECTORS INDICATE FACES
	WALL MOUNTED EXIT SIGN, ARROWS AS INDICATED, SHADED SECTORS INDICATE FACES
	EMERGENCY LIGHTING UNIT
	EMERGENCY LIGHTING UNIT WITH EXTENDED BATTERY
	REMOTE EMERGENCY LIGHTING UNIT
	REMOTE EMERGENCY LIGHTING UNIT, WET LOCATIONS
	EMERGENCY LIGHTING UNIT, BATTERY ONLY
SWITCHES	
	BY-PASS SHUNT-TRIP WITH JUNCTION BOX.
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	FOUR WAY SWITCH
	KEYED SWITCH
	DIMMER SWITCH - CONFIRM WATTAGE
	MOMENTARY CONTACT SWITCH
	SWITCH WITH PILOT LIGHT
	MOTOR RATED SWITCH
	SINGLE POLE SWITCH WITH INTEGRATED OCCUPANCY SENSOR
<b>SCHEDULE NOTES:</b> 1. THE ABOVE SYMBOLS ARE A REPRESENTATION OF POSSIBLE SYMBOLS USED IN THE DRAWINGS. OTHER SIMILAR SYMBOLS MAY BE USED.	

ELEC. POWER SYMBOLS	
SYMBOL	DESCRIPTION
	POWERED WIRING
	EXISTING COMPONENT
	SINGLE RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	DUPLEX OUTLET W/ INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
	ISOLATED GROUND DUPLEX RECEPTACLE OUTLET
	1/2 SWITCHED DUPLEX RECEPTACLE OUTLET
	QUAD RECEPTACLE OUTLET
	RECESSED FLOOR SINGLE RECEPTACLE OUTLET
	RECESSED FLOOR DUPLEX RECEPTACLE OUTLET
	RECESSED FLOOR QUAD RECEPTACLE OUTLET
	CEILING MOUNTED DUPLEX RECEPTACLE OUTLET
	HORIZONTALLY MOUNTED RECEPTACLE OUTLET
	HIGH VOLTAGE RECEPTACLE OUTLET
	PEDESTAL SINGLE RECEPTACLE OUTLET
	PEDESTAL DUPLEX RECEPTACLE OUTLET
	PEDESTAL QUAD RECEPTACLE OUTLET
	POWER CONNECTION THE FURNITURE
	WEATHER PROOF GFCI RECEPTACLE OUTLET
	220 VOLT RECEPTACLE OUTLET
	SPECIAL PURPOSE OUTLET, PER EQUIPMENT SERVED.
	WALL MOUNTED JUNCTION BOX
	CEILING MOUNTED JUNCTION BOX
	DISCONNECT SWITCH, SIZED PER CIRCUIT
	DISCONNECT FUSED SWITCH, SIZED PER CIRCUIT
	COMBINATION MAGNETIC MOTOR STARTER
	VARIABLE SPEED DRIVE
	CABLE TAP BOX
	CEILING FAN
	ELECTRIC MOTOR
	SURFACE MOUNTED ELECTRICAL PANEL
	RECESSED ELECTRICAL PANEL
	SMALL TRANSFORMER
	ELECTRIC METER
	RELAY
	LIGHTING CONTACTOR
	TIME CLOCK
	THERMOSTAT - COORDINATE WITH MECHANICAL
	PUSH BUTTON
	BELL
	BUZZER
	CONDUIT DOWN
	CONDUIT UP
	HOME RUN
	HOME RUN DIRECTLY CONNECTED TO EQUIPMENT
	SMOKE DAMPER MOTOR PROVIDED BY MECHANICAL TRADES WIRED BY ELECTRICAL TRADES, REFER TO FIRE ALARM FOR MONITORING WIRING
	MULTI-DEVICE CIRCUIT, MULTIPLE DEVICES ARE ASSOCIATED WITH NOTED CIRCUIT. INDIVIDUAL DEVICES ARE SHOWN ON TYPICAL ENLARGED PLANS.

ELEC. DRAWING SYMBOLS	
SYMBOL	DESCRIPTION
	CONSTRUCTION KEY NOTE
	DEMOLITION KEY NOTE
	EQUIPMENT DESIGNATION
	LINE OF DEVICES OR EQUIPMENT BEYOND OR BELOW THE FLOOR
	EXISTING SYSTEM COMPONENT TO BE REMOVED
	LINE OF NEW OR MODIFIED DEVICES OR EQUIPMENT
	WIRE TAG - 3/12 1-8 G
	PANEL TAG - *A* DESIGNATES PANEL NAME
	DISCONNECT TAG - 30 AMP, NEMA 3R, 25 AMP TRIP OVER CURRENT PROTECTION

ELECTRICAL GENERAL NOTES	
1	THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL INTENT OF THE WORK. PROVIDE ELECTRICAL SYSTEMS COMPLETE PER SPECIFICATIONS, NATIONAL ELECTRICAL CODE, & ALL APPLICABLE CODES.
2	CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3	UNLESS OTHERWISE NOTED, REFER TO PANEL BOARD SCHEDULES FOR EQUIPMENT LOADS, CIRCUIT BREAKER SIZES, & PROPOSED WIRE GAUGES.
4	UNLESS OTHERWISE NOTED, REFER TO SINGLE LINE DIAGRAM FOR SWITCHBOARD, DISTRIBUTION PANELS, EQUIPMENT LOADS, CIRCUIT BREAKER SIZES, WIRE GAUGES, & CONDUIT SIZES.
6	ANY 120 VOLT BRANCH CIRCUIT LONGER THAN 120'-0" TO LAST DEVICE SHALL BE SIZED TO THE NEXT LARGER STANDARD AWG SIZE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS OF BRANCH CIRCUIT.
7	SHARING OF NEUTRALS IS PROHIBITED.
8	ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.
9	MOUNT GROUPED LIGHT SWITCHES UNDER ONE COMMON FACE PLATE. MULTIPLE SINGLE GANG FACE PLATES FOR GROUPED SWITCHES IS NOT ACCEPTABLE.
10	CONFIRM LOCATION OF FURNITURE, OWNER PROVIDED WALL & FLOOR LAMPS, PHONE, TV, & POWER OUTLETS WITH OWNER'S ROOM USE PLANS.
11	ELECTRICAL DEVICE BOXES ARE NOT TO BE INSTALLED IN PARTITION WALLS IN A DIRECT BACK-TO-BACK CONFIGURATION, WITHOUT WRITTEN AUTHORIZATION FROM ARCHITECT/ENGINEER.
12	GUESTROOM RECEPTACLES TO BE INSTALLED BEHIND FURNITURE AS INDICATED ON PLANS. PROVIDE MOCK-UP OF TYPICAL GUESTROOMS FOR ARCHITECT/ENGINEER APPROVAL.
13	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY, PRIOR TO INSTALLATION OF ANY INDIVIDUAL CIRCUIT, TO VERIFY WITH ALL OTHER TRADES CONCERNED THAT THE CIRCUIT WITH DEVICES AS DRAWN IS ADEQUATE IN SIZE & MAKE-UP FOR THE MECHANICAL AND/OR KITCHEN EQUIPMENT TO BE INSTALLED. IF ANY CONFLICT IN VOLTAGE, PHASE, OR LOAD IS ENCOUNTERED WHICH WOULD ALTER THE CIRCUIT SIZE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR OWNER IMMEDIATELY. FAILURE TO DO SO SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT CIRCUIT CHANGE DIRECTLY UPON THE CONTRACTOR.
14	REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES & CEILING CONSTRUCTION.
15	THESE ARE STANDARD SYMBOLS & MAY NOT ALL APPEAR ON PROJECT DRAWING FILES. WHENEVER THE SYMBOL OCCURS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE PROVIDED & INSTALLED.
16	DETAIL CALL OUTS ARE GIVEN AS A REFERENCING AID. DETAILS SHALL BE APPLIED BOTH WHERE CALLED OUT & AS APPLICABLE.
17	DO NOT ROUTE WIRING OR CONDUITS THROUGH STRUCTURAL MEMBERS REQUIRING FIELD OPENINGS LARGER THAN 1". WITHOUT WRITTEN CONSENT FROM ENGINEER. STRUCTURAL MEMBERS TO INCLUDE BUT ARE NOT LIMITED TO BEAMS, COLUMNS, JOIST, & STRUCTURAL WALL ELEMENTS CALLED OUT ON STRUCTURAL PLANS.
18	IN PUBLIC SPACE ROUTE RACEWAY AND CABLES BEHIND WALL, CEILING, AND FLOOR FINISHES. DO NOT INSTALL SURFACE RACEWAY OR WIREMOLD WITHOUT WRITTEN CONSENT FORM ARCHITECT.
19	LOCATE GUESTROOM RECEPTACLES BEHIND FURNITURE UNLESS OTHERWISE INDICATED. COORDINATE DEVICE LOCATIONS WITH ALL TRADES AND F.P.&E. PRIOR TO STARTING WORK.

DEMO GENERAL NOTES	
A	ANY INTERRUPTIONS OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNERS REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDINGS OPERATION.
B	THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL INTENT OF WORK TO BE PERFORMED. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
C	ALL ELECTRICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED CONDUIT.
D	ALL DEMOLITION OF THE EXISTING ELECTRICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO CONDUIT, CONDUCTORS, LIGHTS, DEVICES, CONTROLS, SUPPORTS, HANGERS, AND EQUIPMENT SHALL BE UNDER SCOPE OF THE ELECTRICAL SECTION OF THE SPECIFICATIONS.
E	THE OWNER SHALL HAVE FIRST RITE OF REFUSAL ON ALL EQUIPMENT BEING REMOVED.

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Job No: 1730  
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Revisions:	
No:	Date:
No:	Date:
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Drawing Title:  
ELECTRICAL ABBREVIATIONS AND SYMBOLS

Sheet No.  
E000

Date: MM/DD/YY



Revisions:

No:      Date:

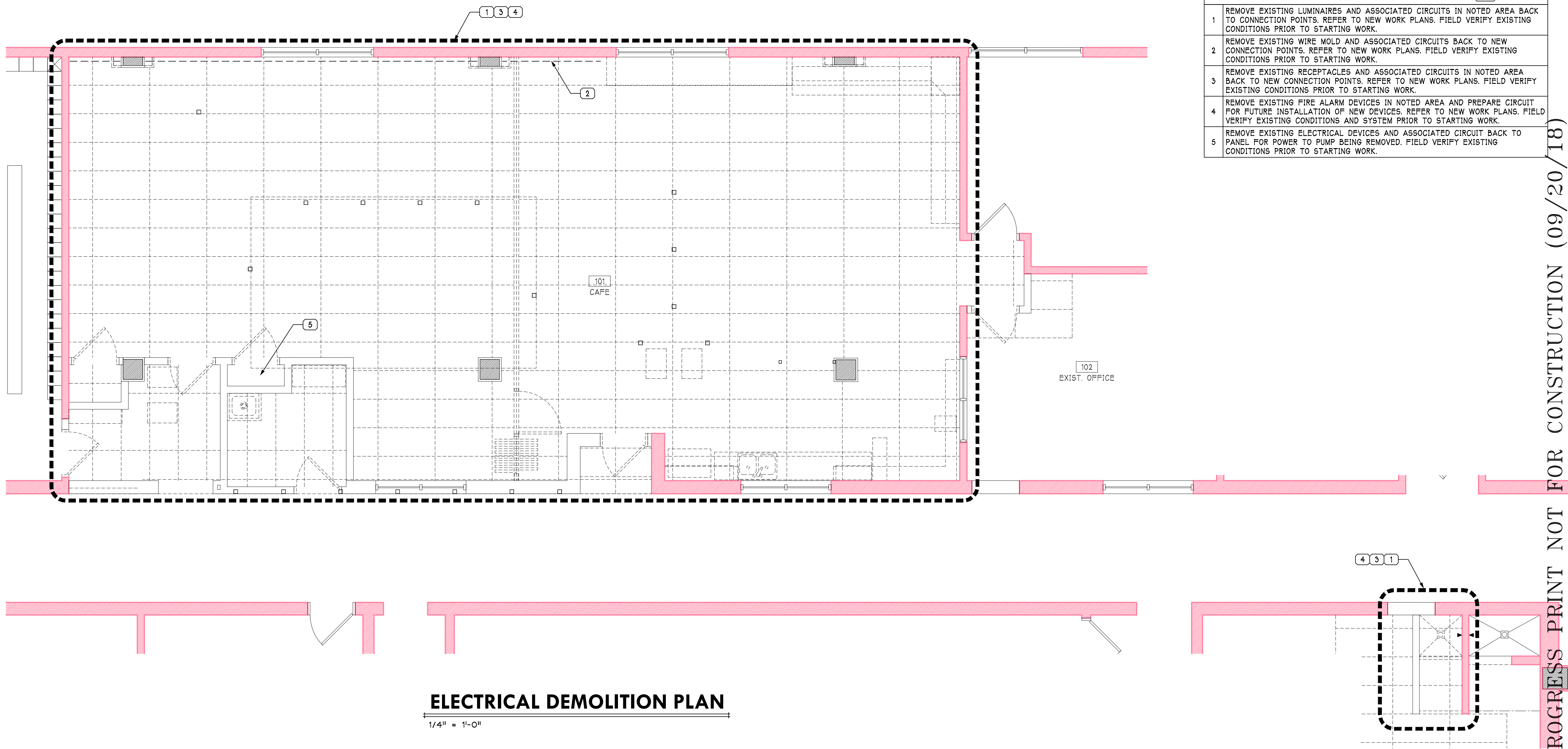
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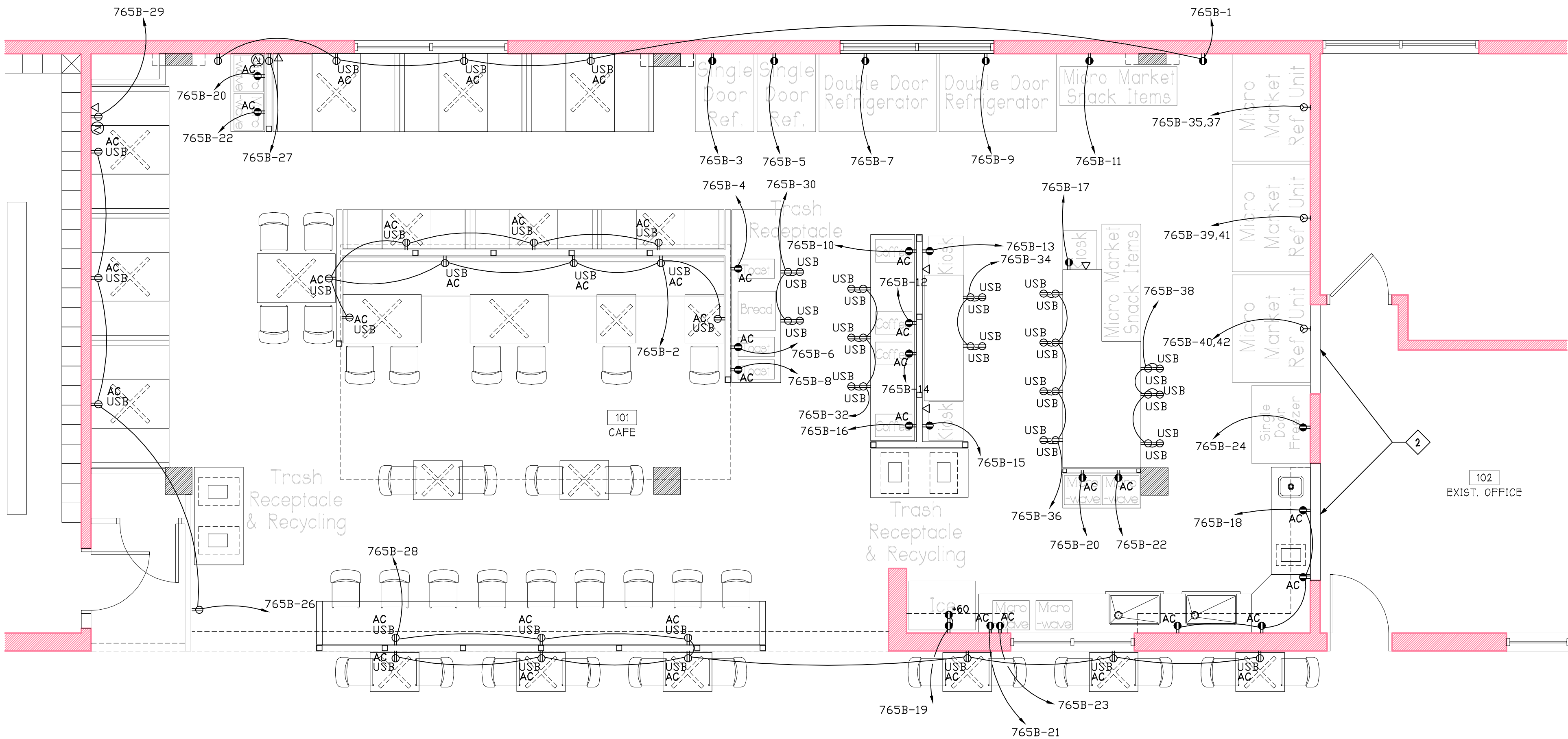
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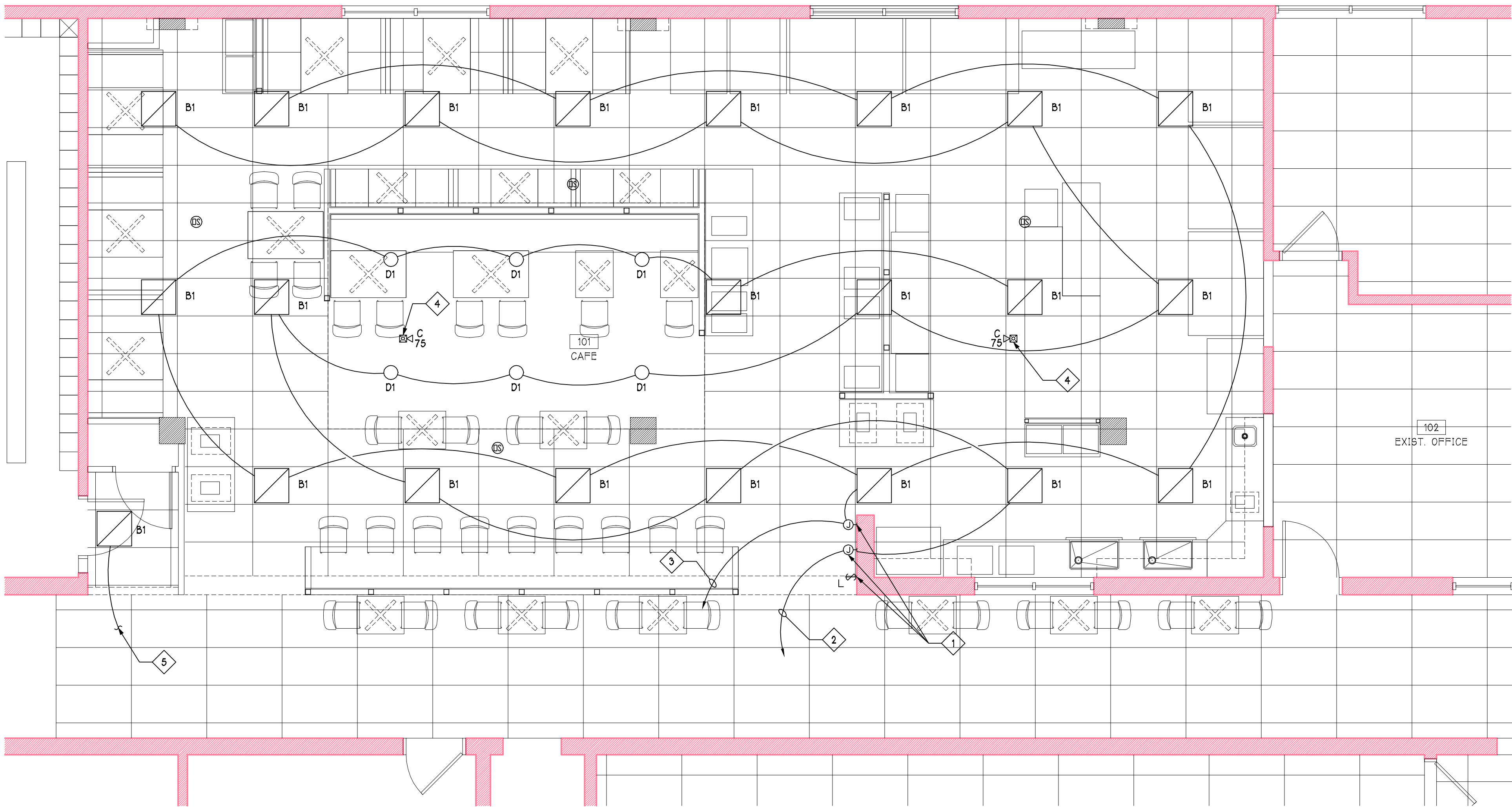
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POWER RENOVATION PLAN

1/4" = 1'-0"



LIGHTING RENOVATION PLAN

1/4" = 1'-0"

POWER KEYED NOTES	
1	CONNECT TO NEAREST AVAILABLE RECEPTACLE CIRCUIT. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
2	ROUTE POWER CIRCUITS DOWN IN NEW WALL TO FLOOR BELOW CEILING SPACE. RACEWAYS TO BE RIGID ALUMINUM IN SPACE BELOW. COORDINATE INSTALLATION WITH OWNER FOR SPECIAL FOOD REQUIREMENTS. REFER TO DETAILS.

LIGHTING KEYED NOTES	
1	REFER TO DETAILS FOR LIGHTING CONTROL WIRING DIAGRAM.
2	CONNECT TO NORMAL LIGHTING CIRCUIT SALVAGED FROM PREVIOUS DEMOLITION WORK. REFER TO DEMOLITION PLANS.
3	CONNECT TO EMERGENCY LIGHTING CIRCUIT SALVAGED FROM PREVIOUS DEMOLITION WORK. REFER TO DEMOLITION PLANS.
4	CONNECT NEW FIRE ALARM DEVICE INTO EXISTING ANNUNCIATION CIRCUIT. FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT PRIOR TO STARTING WORK.
5	CONNECT NEW LIGHT TO EXISTING CORRIDOR LIGHTING CIRCUIT. FIELD VERIFY PRIOR TO STARTING WORK.
6	CONNECT TO EXISTING LIGHTING CIRCUIT VACATED BY PREVIOUS DEMOLITION WORK. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK. REFER TO DEMOLITION PLANS.

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Drawing Title:  
ELECTRICAL  
RENOVATION  
PLANS

Sheet No.  
E101  
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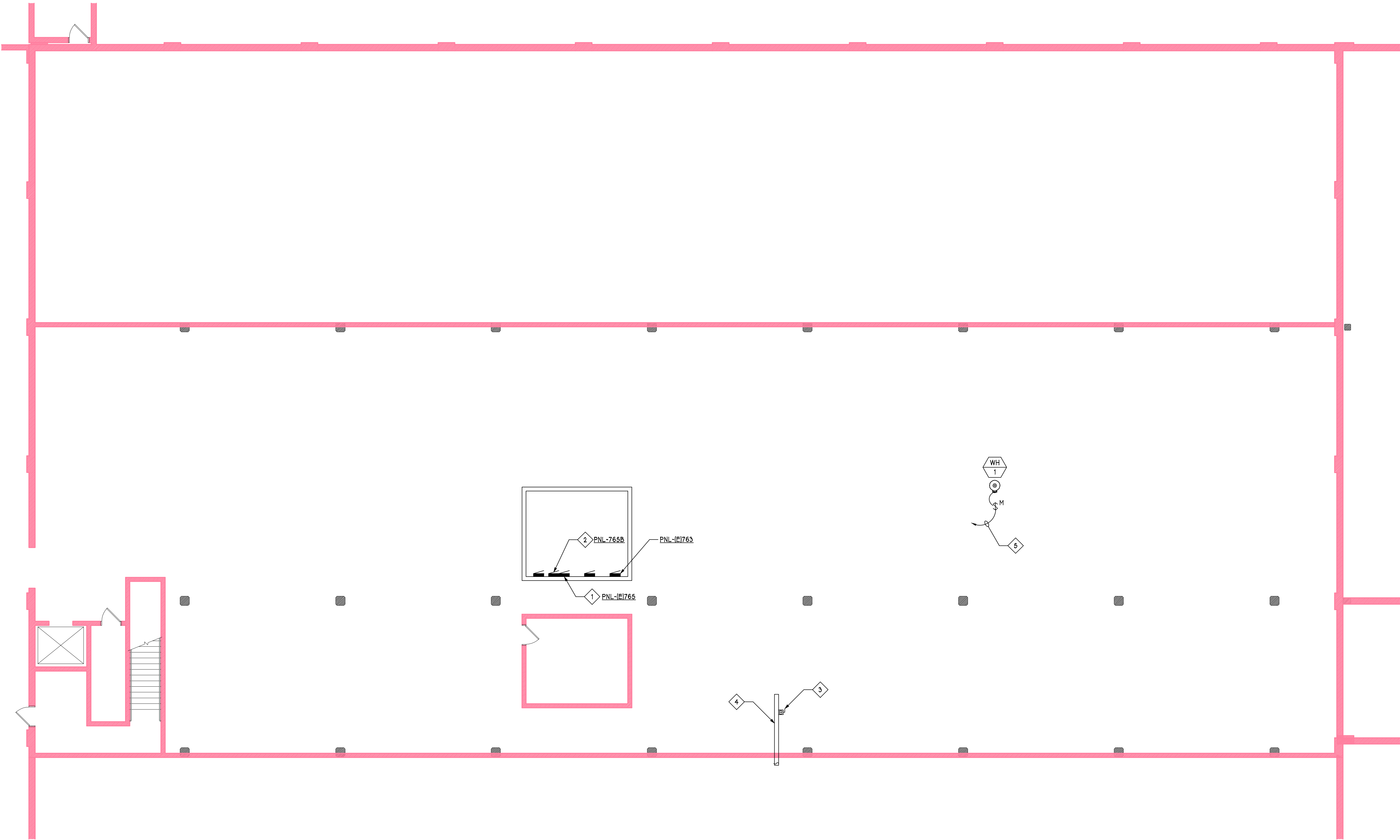
Drawing Title:  
ENLARGED  
MEZZANINE  
POWER PLAN

Sheet No.  
**E102**  
Date: MM/DD/YY

PROGRESS PRINT NOT FOR CONSTRUCTION (09/20/18)

SHEET KEYED NOTES

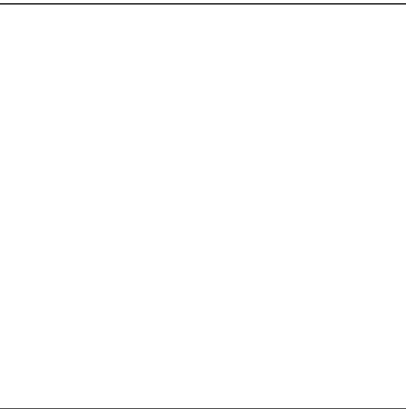
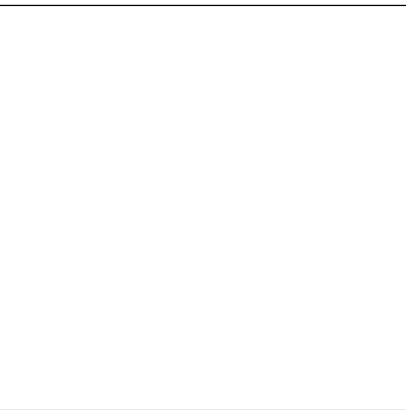
1	ADD FEED THOUGHT LUGS TO EXISTING ELECTRICAL PANEL AND CONNECT TO NEW PANEL SECTION. CONNECT USING 3-3/0 AWG WITH #6 GROUND IN A 2-1/2" CONDUIT. FIELD VERIFY EXISTING EQUIPMENT AND CONDITIONS PRIOR TO STARTING WORK.
2	INSTALL NEW PANEL SECTION ADJACENT TO EXISTING PANEL. FIELD VERIFY EXISTING EQUIPMENT AND CONDITIONS PRIOR TO STARTING WORK.
3	INSTALL NEW 20 AMP, 3 POLE BUS PLUG CIRCUIT BREAKER TO SERVE NEW ROOFTOP AIR HANDING UNIT. REFER TO ROOF PLAN FOR CONTINUATION.
4	EXISTING 480 VOLT 3 PHASE BUS DUCT. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK.
5	ROUTE TO PANEL IE1763 AND TERMINATE WITH NEW 15 AMP 3 POLE CIRCUIT BREAKER. FIELD VERIFY EXISTING EQUIPMENT AND CAPACITIES PRIOR TO STARTING WORK.



ENLARGED MEZZANINE POWER PLAN

1/8" = 1'-0"

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No:	Date:
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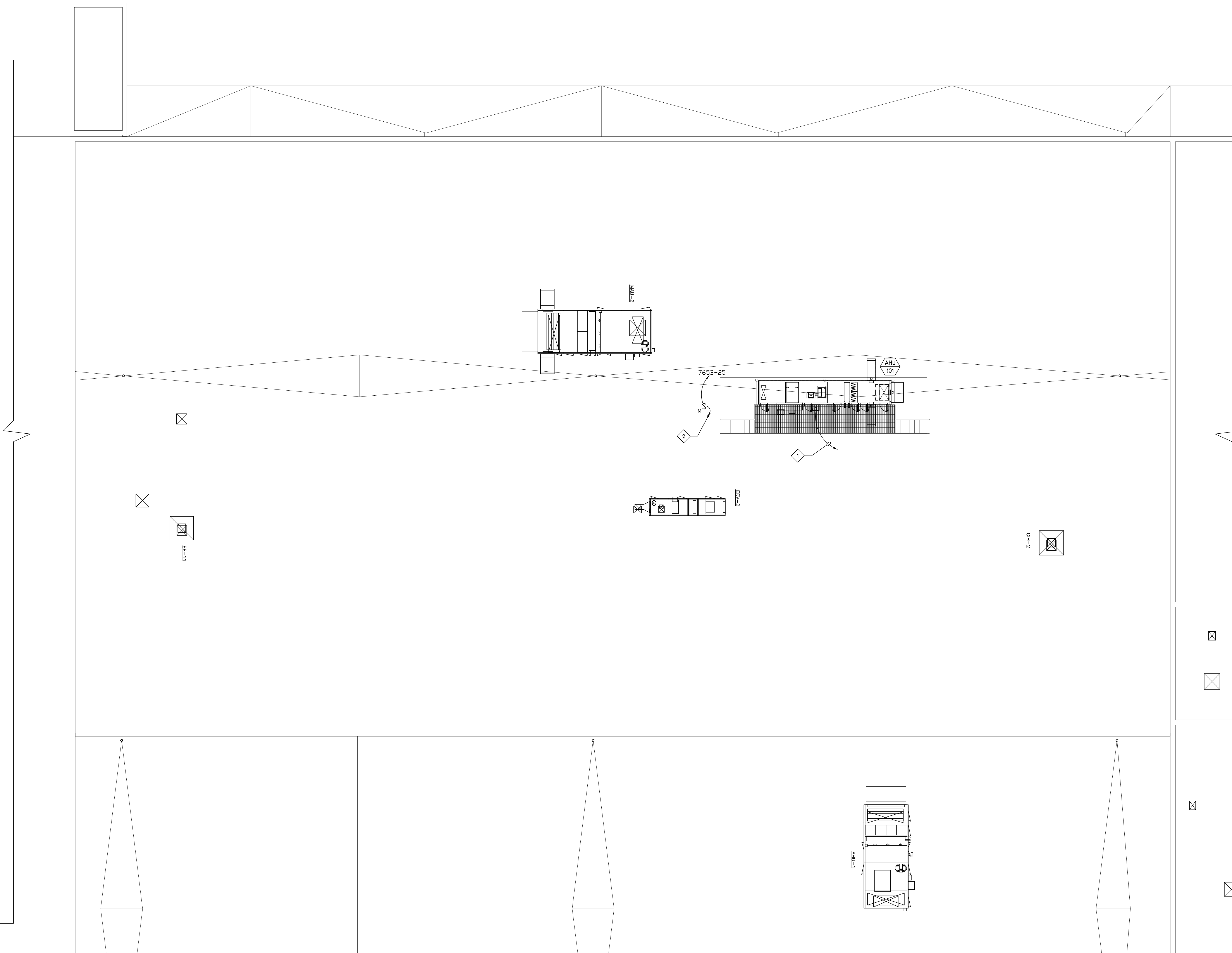
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Drawing Title:  
ROOF POWER  
PLAN

Sheet No.  
**E103**  
Date: MM/DD/YY

SHEET KEYED NOTES	
1	ROUTE BRANCH CIRCUIT TO BUS LOCATED IN MEZZANINE BELOW. REFER TO ADDITIONAL PLANS FOR CONTINUATION AND BRANCH CIRCUIT SIZE.
2	CONNECT TO CONDENSATE HEAT TRACE. REFER TO MECHANICAL FOR LOCATION.



ROOF POWER PLAN

1/8" = 1'-0"

PROGRESS PRINT NOT FOR CONSTRUCTION (09/20/18)



TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	EMERG	LAMP DATA				BALLAST TYPE	VOLTAGE	MOUNTING	NOTES	
				PACK	QTY	LAMP TYPE	COLOR TEMP.	LUMEN			WATTS		TYPE
B1	2X2 TROFFER LIGHT WITH WHITE FINISH AND ACRYLIC LENS	LITHONIA	2VTL2-33L-ADP-EZ1-LPB30		1	LED	3000	3000	30.0	DIMMING	277	RECESSED	-
D1	6" DIA DOWN LIGHT WITH CLEAR SEMI-SPECULAR FINISH	GOTHAM	EVO-30/15-6AR-MWD-LSS-MVOLT-EZ10		1	LED	3000	1500	19.0	DIMMING	277	RECESSED	-

PANEL-765B

VOLTS/PHASE/WIRE:  
120/240/1/3

CIR. NO.

AREA SERVED

TRIP  
AMPS

NO.  
POLES

PHASE LOAD VA

A

B

MIN SEC:

FED FROM:

200 A

NO. POLES

MAIN TYPE & SIZE:  
200 A MLO

PHASE LOAD VA

A

B

NOTES:

CABINET:

TRIP  
AMPS

AREA SERVED

CIR. NO.

1

RECEPTS – CAFE 101

