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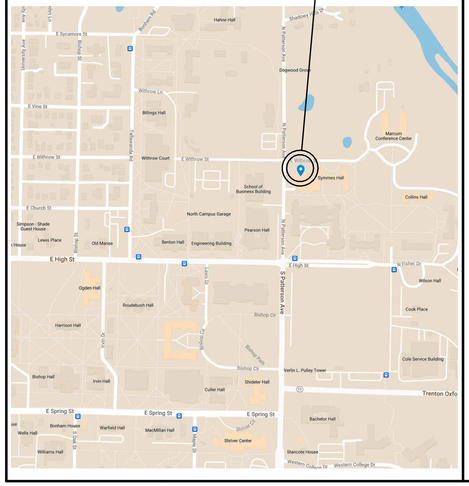
VICINITY MAP

PROJECT LOCATION



CODE INFORMATION (OEBC 2024)

COMPLIANCE METHOD

OHIO EXISTING BUILDING CODE 2024
SECTION 301.3.1 PRESCRIPTIVE COMPLIANCE METHOD
COMPLIANCE WITH OEBC SECTIONS 302-309 AND CHAPTER 5, ALTERATIONS TO COMPLY WITH REQUIREMENTS OF THE CODE FOR NEW CONSTRUCTION (OBC 2024)

PROJECT DESCRIPTION

PROJECT CONSISTS OF THE INTERIOR RENOVATION OF 1,300 SF OF EXISTING SERVING, KITCHEN AND BACK OF HOUSE SUPPORT SPACE. NEW CONSTRUCTION IS INCLUSIVE OF GENERAL TRADES WORK, FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL. THE AREA OF THE BUILDING IS UNCHANGED AND THE OCCUPANCY IS UNCHANGED BY THE PROJECT. THE MAIN DINING HALL WILL REMAIN OPERATIONAL DURING CONSTRUCTION.

USE GROUP CLASSIFICATION

OBC (302) USE GROUP
AREA OF RENOVATION = A-2

CONSTRUCTION TYPE CLASSIFICATION

OBC (602) CONSTRUCTION TYPE = IIIB

AREA OF RENOVATION = 1,300 SF

OCCUPANT LOAD

UNCHANGED BY THIS RENOVATION

INTERIOR FINISHES

OBC (803) TABLE 803.13 INTERIOR WALL & CEILING FINISHES:
B- BUSINESS USE

EXIT PASSAGEWAY	SPRINKLERED = B
CORRIDORS	SPRINKLERED = B
ROOMS	SPRINKLERED = C

OBC (804) INTERIOR FLOOR FINISH:

FLOOR FINISH = CLASS II

FIRE PROTECTION

AUTOMATIC SPRINKLER SYSTEM

BUILDING DESCRIPTION: SPRINKLERED

FIRE ALARM AND DETECTION SYSTEM

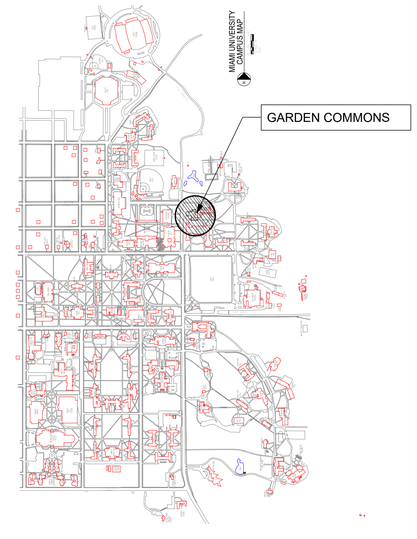
MANUAL FIRE ALARM PROVIDED
AUTOMATIC FIRE ALARM PROVIDED

PLUMBING FIXTURES

PLUMBING FIXTURE COUNT IS UNCHANGED BY THIS PROJECT

DRAWING INDEX

CAMPUS MAP



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MARIANNE L. WEBER
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REGISTERED ARCHITECT

Marianne L. Weber, License #9675
Expiration Date 12/31/2025

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ISSUE

NO.	DATE	DESCRIPTION
	12/16/2024	CD REVIEW
	01/29/2025	BID & PERMIT

DATE	01/29/2025
JOB NO.	4249.00
DRAWN	MES/LJY
CHECKED	-

TITLE
COVER SHEET

SHEET NO.
G0.1

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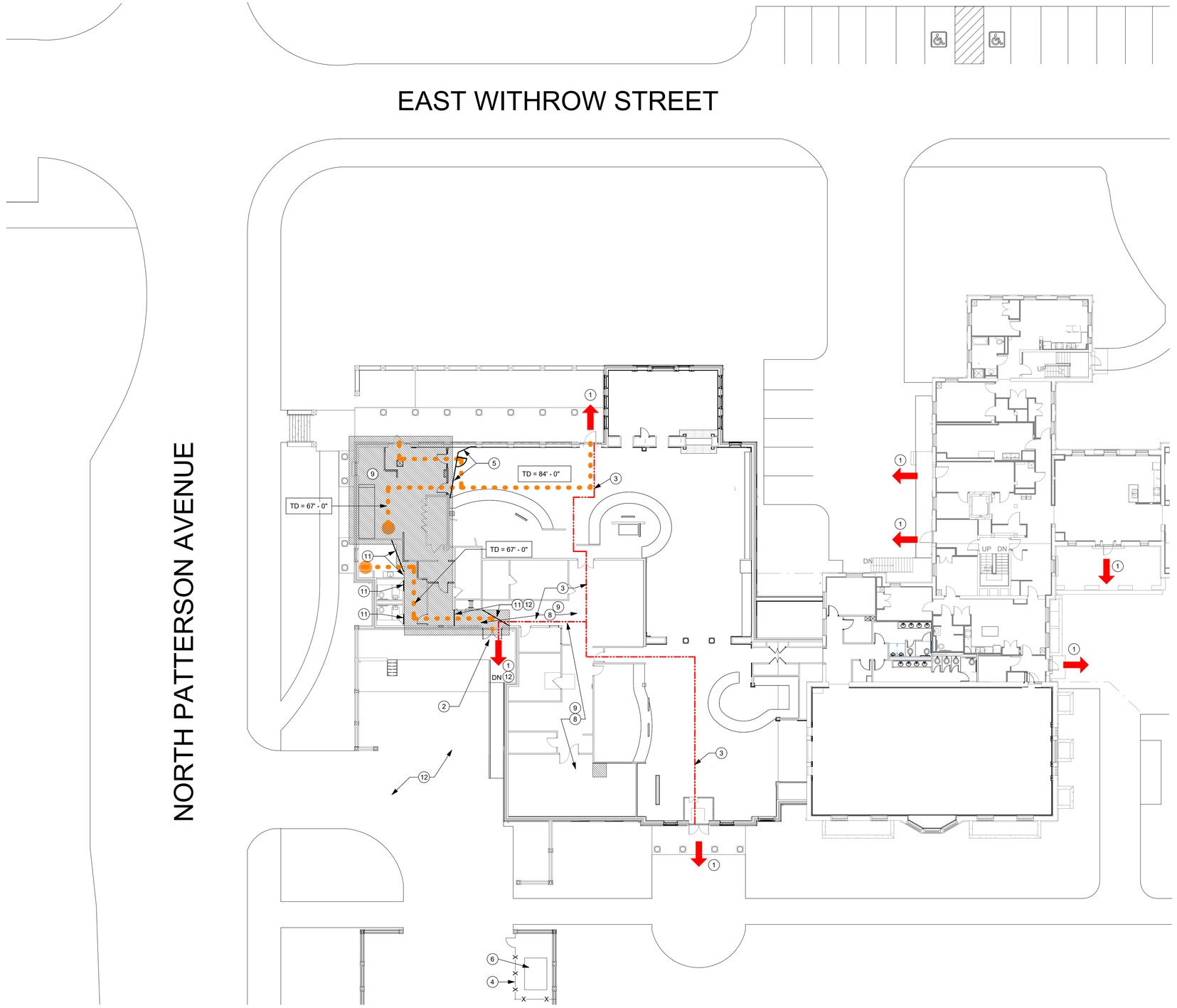

F1 LIFE SAFETY AND SITE PLAN
1/16" = 1'-0"

STAGING NOTES

0 INDICATES STAGING NOTE
NOT ALL NOTES USED

1. DOOR TO REMAIN OPENED TO STUDENT AND STAFF ACCESS FOR THE DURATION OF THE CONSTRUCTION PROJECT. EGRESS FROM FIRST FLOOR IS MAINTAINED AT ALL TIMES AT THIS LOCATION.
2. CONTRACTOR ACCESS DOOR FOR DURATION OF PROJECT. CONTRACTOR TO PROTECT DOOR AND ADJACENT SURFACES AT ALL TIMES. DOOR TO REMAIN OPERATIONAL AND ACCESSIBLE TO MIAMI STAFF AND DELIVERY SERVICES (DELIVERIES OCCUR WEEKLY / DAILY)
3. CONTRACTOR TO MAINTAIN PATH OF EGRESS CLEAR OF CONSTRUCTION MATERIALS AND DEBRIS AT ALL TIME. BUILDING WILL BE OPEN TO STUDENTS AND STAFF AT ALL TIMES FOR THE DURATION OF THE PROJECT.
4. CONTRACTOR TO PROVIDE MINIMUM 8'-0" HIGH CHAIN LINK FENCING WITH RED PRIVACY SCREEN ON INSIDE AT FENCED STAGING AREA. PROVIDE PADLOCKED GATE TO STAGING AREA. CONTRACTOR TO CONFIRM WITH MIAMI PROJECT MANAGER SIZE OF FENCED STAGING AREA..
5. CONTRACTOR TO PROVIDE HARDWALL TEMPORARY PARTITION, AT ALL AREAS OF WORK, CAPABLE OF CONTAINING ALL CONSTRUCTION DEBRIS AND DUST PARTICLES FROM OCCUPIED PARTS OF THE BUILDING. COORDINATE FINAL LOCATIONS AND LIMITS WITH MIAMI'S PROJECT MANAGER TO ENSURE FULL ACCESS TO AREAS REMAINING IN OPERATION.
6. CONTRACTOR TO PROTECT PATHWAY TO DUMPSTER AS REQUIRED, SET DUMPSTER ON MINIMUM 3/4" PLYWOOD.
7. CONTRACTOR TO OBTAIN AND DISPLAY PARKING PASSES WHEN PARKED ON STREET OR IN PARKING LOTS.
8. CONTRACTOR ACCESS LIMITED TO ABOVE CEILING REMOVAL OF DIGESTER LINE AND DIGESTER EQUIPMENT. CONTRACTOR TO PROTECT KITCHEN WITH PLASTIC DURING ALL ABOVE CEILING WORK IN OCCUPIED KITCHEN.
9. CONTRACTOR TO PROVIDE HEPA FILTERS IN WORK AREA.
10. CONTRACTOR TO COORDINATE NOISY AND DISRUPTIVE WORK WITH MIAMI PROJECT MANAGER AND DIRECTOR OF DINING SERVICES.
11. CONTRACTOR TO PROVIDE TEMPORARY PARTITION, AT ALL AREAS OF WORK, CAPABLE OF CONTAINING ALL CONSTRUCTION DEBRIS AND DUST PARTICLES FROM OCCUPIED PARTS OF THE BUILDING. COORDINATE FINAL LOCATIONS AND LIMITS WITH MIAMI'S PROJECT MANAGER TO ENSURE FULL ACCESS TO AREAS REMAINING IN OPERATION. PLASTIC PARTITIONS ARE ACCEPTABLE – PROVIDE WITH ZIPPER ACCESS DOOR.
12. DINING HALL KITCHEN DELIVERY AREA. THIS AREA TO REMAIN OPEN AND ACCESSIBLE TO MIAMI STAFF AND DELIVERY SERVICES.

KEY

- EXIT
- EGRESS PATH
- EXISTING OCCUPANT EGRESS PATH
- TEMPORARY PARTITION
- DENOTES AREA OF WORK
- DENOTES BUILDING SYSTEMS AVAILABLE TO CONTRACTOR

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TITLE
LIFE SAFETY AND SITE PLAN

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ABBREVIATIONS

SYMBOL	
@	AT
&	AND
∠	ANGLE
Ø	DIAMETER
℄	CENTER LINE
▱	PLATE

A	
ABV	ABOVE
A/C	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLER UNIT
AL	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
ANCH	ANCHOR
APPROX	APPROXIMATELY
ARCH	ARCHITECT OR ARCHITECTURAL
ATTEN	ATTENUATED
AUTO	AUTOMATIC
AVG	AVERAGE

B	
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT

C	
CAB	CABINET
CB	CATCH BASIN
C/C	CENTER TO CENTER
CF	CUBIC FOOT
CFCI	CONTRACTOR FURNISH, CONTRACTOR INSTALL
CFOI	CONTRACTOR FURNISH, OWNER INSTALL
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG	CEILING
CL	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CPU	CENTRAL PROCESSING UNIT (COMPUTER)
CY	CUBIC YARD

D	
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DS	DOWNSPOUT
DWG	DRAWING
DTL	DETAIL

E	
EA	EACH
EC	ELECTRICAL CONTRACTOR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATION OR ELEVATOR
EMERG	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST OR EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F	
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH OR FINISHED
FLR	FLOOR
FND	FOUNDATION
FRT	FIRE RETARDANT TREATED WOOD
FT	FOOT OR FEET OR FULLY TEMPERED
FTG	FOOTING
FUR	FURRING
FV	FIELD VERIFY
FOW	FACE OF WALL

G	
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GD	GRADE OR GRADING
GEN	GENERAL
GL	GLASS OR GLAZING
GND	GROUND
GYP	GYPSUM
GWB	GYPSUM BOARD
GWT	GLAZED WALL TILE

H	
HB	HOSE BIBB
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HWD	HARDWARE

I	
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE (D) (ING)
INT	INTERIOR
INV	INVERT

J	
JB	JUNCTION BOX
JC	JANITOR CLOSET

L	
L	LONG
LAV	LAVATORY
LBS	POUNDS
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LTL	LINTEL
LVR	LOUVER

M	
M	MEN OR METER
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MOUNTING HEIGHT, MANHOLE
MIL	THOUSANDTHS OF AN INCH
MM	MILLIMETER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL

N	
N	NORTH OR NITROGEN
NC	NURSE CALL
NIC	NOT IN CONTRACT
NO	NUMBER OR NITROUS OXIDE
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE

O	
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISH, CONTRACTOR INSTALL
OFOI	OWNER FURNISH, OWNER INSTALL
OFVI	OWNER FURNISH, VENDOR INSTALL
OH	OVERHEAD
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
O_2	OXYGEN

P	
PAR	PARALLEL
PC	PLUMBING CONTRACTOR
PCF	POUNDS PER CUBIC FOOT
PL	PLATE OR PROPERTY LINE
PLBG	PLUMBING
PLWD	PLYWOOD
PME	PLUMBING, MECHANICAL & ELECTRICAL
PNL	PANEL
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE

Q	
QTY	QUANTITY

R	
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REINF	REINFORCE
REQD	REQUIRED
RET	RETURN
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY

S	
S	SOUTH
SAN	SANITARY
SB	SINK BASE
SCHED	SCHEDULE
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FEET
SG	SAFETY GLASS
SH	SPRINKLER HEAD OR SHOWER HEAD
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SPK	SPEAKER
SQ	SQUARE
ST	STREET
STC	SOUND TRANSMISSION CLASSIFICATION
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYS	SYSTEM

T	
T & G	TONGUE & GROOVE
TB	TOWEL BAR
T&B	TOP AND BOTTOM
TEL	TELEPHONE
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOM	TOP OF MASONRY
TOW	TOP OF WALL
TRANS	TRANSFORMER
TV	TELEVISION
TYP	TYPICAL

U	
UC	UNDER CABINET OR COUNTER
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE

V	
V	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VS	VACUUM SLIDE

W	
W	WIDE OR WEST OR WOMEN
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET OR WALL CABINET
WD	WOOD
WIN	WINDOW
WP	WORK POINT
WPT	WOOD PRESERVATIVE TREATMENT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.
ADDITIONAL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON SUBSEQUENT SHEETS.

REFERENCE SYMBOLS

DRAWING TITLE

A1 FIRST FLOOR PLAN
1/4" = 1' - 0"
- A1 — DRAWING REFERENCE NUMBER
- FIRST FLOOR PLAN — DRAWING TITLE
- 1/4" = 1' - 0" — SCALE OF DRAWING
- A1 — DRAWING REFERENCE NUMBER

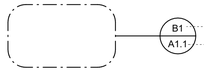
INTERIOR ELEVATIONS

- A1.1 — DRAWING REFERENCE NUMBER
- A1.1 — DRAWING SHEET NUMBER

BUILDING/DETAIL SECTION

- B1 — DRAWING REFERENCE NUMBER
- A1.1 — DRAWING SHEET NUMBER

ENLARGED DETAIL



- B1 — DRAWING REFERENCE NUMBER
- A1.1 — DRAWING SHEET NUMBER

EXTERIOR ELEVATIONS

- A1.1 — DRAWING REFERENCE NUMBER
- A1.1 — DRAWING SHEET NUMBER

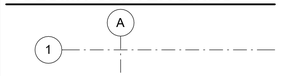
MATCH LINE

- A1 — DRAWING REFERENCE NUMBER
- A1.1 — DRAWING SHEET NUMBER

MATERIAL SYMBOLS IN SECTION

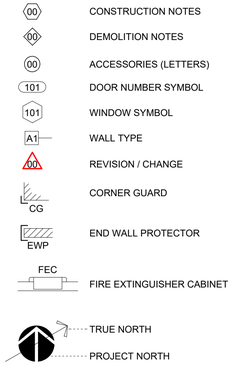
DRAWING SYMBOLS

COLUMN CENTER LINES

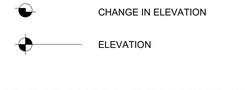


ROOM SYMBOL

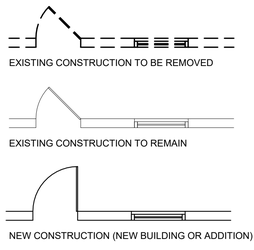
PLAN SYMBOLS



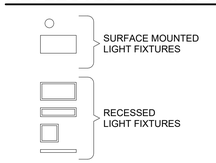
ELEVATION SYMBOLS



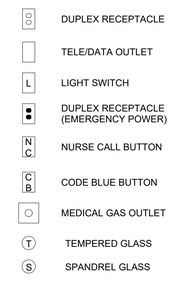
TYPICAL WALL CONVENTIONS



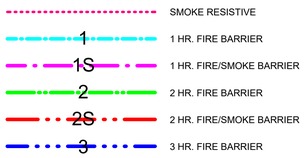
REFLECTED CEILING SYMBOLS



INTERIOR ELEVATION SYMBOLS

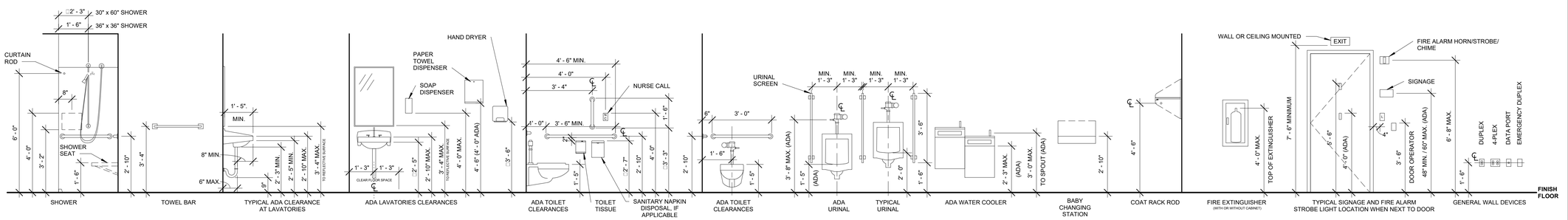


FIRE BARRIER LEGEND



MOUNTING & CLEARANCE STANDARDS N.T.S.

(FOLLOW THESE UNLESS NOTED OTHERWISE)



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TITLE
ABBREVIATIONS AND SYMBOLS

SHEET NO.
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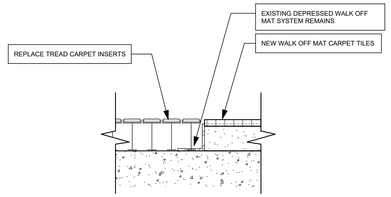
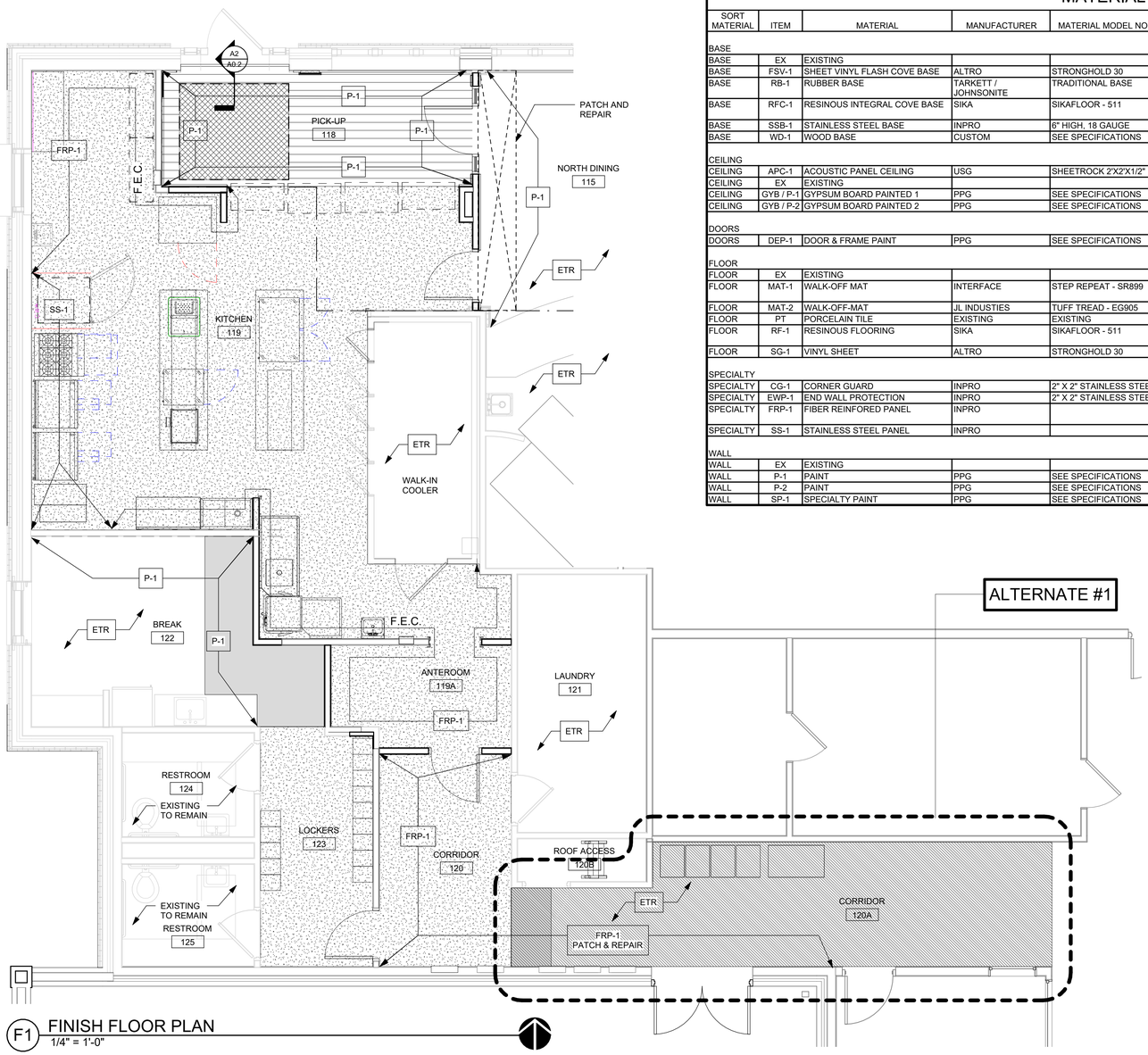


A2 WALK-OFF MAT DETAIL
3" = 1'-0"



F1 FINISH FLOOR PLAN
1/4" = 1'-0"

ROOM FINISH SCHEDULE

ROOM No.	ROOM NAME	FLOOR	BASE	WALLS N	WALLS S	WALLS E	WALLS W	CEILING MAT.	REMARKS
115	NORTH DINING	EX-PT	EX-WD-1	EX-PT	EX-PT	EX-PT	PT-1	GYP / P-1 + GYP / P-2	1, 2, 5, 6, 7
118	PICK-UP	PT	WD-1	PT-1	PT-1	PT-1	PT-1	GYP / P-2	1, 2, 3, 8
119	KITCHEN	RF-1	RFC-1	PT-1	PT-1	PT-1	PT-1	ACP-1 + GYP / P-2	2, 3
119A	ANTEROOM	RF-1	RFC-1	PT-1	PT-1	PT-1	PT-1	APC-1	2, 3
119B	DISH	RF-1	RFC-1	PT-1	PT-1	PT-1	PT-1	APC-1	2, 3
120	CORRIDOR	RF-1	RFC-1	PT-1	PT-1	PT-1	PT-1	APC-1	2, 3
120A	CORRIDOR	SG-1	FSV-1	PT-1	PT-1	PT-1	PT-1	ACP-1	2, 3, 4, 6
122	BREAK	SG-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	2, 6
123	LOCKERS	RF-1	RFC-1	PT-1	PT-1	PT-1	PT-1	APC-1	2

ROOM FINISH SCHEDULE REMARKS

No.	REMARK
1	FOR WOOD TRIM PROFILE INFORMATION, SEE DETAILS ON SHEET A8.1.
2	PATCH AND REPAIR EXISTING FINISHES AFTER NEW CONSTRUCTION WORK.
3	SEE INTERIOR ELEVATIONS AND FINISH PLAN FOR SPECIALTY WALL FINISH INFORMATION
4	SEE ALTERNATE #1 FOR WORK THIS AREA
5	SALVAGE EXISTING PORECLAIN TILE DURING DEMOLITION PHASE FOR PATCH AND REPAIR AT NEW WALL AND DOOR LOCATIONSABUTTING EXISTING PORECLAIN TILE
6	FINISHES ARE EXISTING - PATCH AND REPAIR FINISHES AFTER NEW CONSTRUCTION (UNO)
7	NEW BASE, CHAIR RAIL, AND CROWN MOLDING WOOD TRIM REQUIRED ON WEST WALL.
8	NEW WALL BASE, CHAIR RAIL,PILASTER BASE AND PILASTER CAPITAL WOOD TRIM REQUIRED IN THIS ROOM.

MATERIAL LEGEND

SORT MATERIAL	ITEM	MATERIAL	MANUFACTURER	MATERIAL MODEL NO.	COLOR	REMARKS
BASE						
BASE	EX	EXISTING				
BASE	FSV-1	SHEET VINYL FLASH COVE BASE	ALTRO	STRONGHOLD 30	TUNDRA K30500	6" INTEGRAL COVE BASE
BASE	RB-1	RUBBER BASE	TARKETT / JOHNSONITE	TRADITIONAL BASE	DARK BROWN	FIELD VERIFY AND MATCH EXISTING PROFILE, HEIGHT AND COLOR
BASE	RFC-1	RESINOUS INTEGRAL COVE BASE	SIKA	SIKAFLOOR - 511	TBD-FROM MANFG FULL RANGE	SEE SPECIFICATIONS FOR COMPLETE SIKA SYSTEM
BASE	SSB-1	STAINLESS STEEL BASE	INPRO	6" HIGH, 18 GAUGE	SS	
BASE	WD-1	WOOD BASE	CUSTOM	SEE SPECIFICATIONS	PAINT	REFER TO F1/A8.1 FOR PROFILES
CEILING						
CEILING	APC-1	ACOUSTIC PANEL CEILING	USG	SHEETROCK 2'X2'X1/2"	WHITE	CLIMAPLUS PERFORMANCE, SQUARE EDGE
CEILING	EX	EXISTING				
CEILING	GYB / P-1	GYPSUM BOARD PAINTED 1	PPG	SEE SPECIFICATIONS	0C120 SEASHELL	CEILING BEAMS
CEILING	GYB / P-2	GYPSUM BOARD PAINTED 2	PPG	SEE SPECIFICATIONS	OC57 WHITE HERON	CEILING INSET PANELS
DOORS						
DOORS	DEP-1	DOOR & FRAME PAINT	PPG	SEE SPECIFICATIONS	OC57 WHITE HERON	
FLOOR						
FLOOR	EX	EXISTING				
FLOOR	MAT-1	WALK-OFF MAT	INTERFACE	STEP REPEAT - SR899	TBD-FROM MANFG FULL RANGE	COLOR TBD - SELECTED FROM MANUFACTURER'S FULL RANGE OF STANDARD COLORS
FLOOR	MAT-2	WALK-OFF-MAT	JL INDUSTIES	TUFF TREAD - EG905	BLACK	REPLACE TREADS ONLY
FLOOR	PT	PORCELAIN TILE	EXISTING	EXISTING	EXISTING	SALVAGE DURING DEMOLITION FOR PATCH & REPAIR
FLOOR	RF-1	RESINOUS FLOORING	SIKA	SIKAFLOOR - 511	TBD-FROM MANFG FULL RANGE	SEE SPECIFICATIONS FOR COMPLETE SIKA SYSTEM
FLOOR	SG-1	VINYL SHEET	ALTRO	STRONGHOLD 30	TUNDRA K30500	4" INTEGRAL COVE BASE
SPECIALTY						
SPECIALTY	CG-1	CORNER GUARD	INPRO	2" X 2" STAINLESS STEEL	STAINLESS STEEL	REFER TO FINISH PLAN FOR LOCATION.
SPECIALTY	EWP-1	END WALL PROTECTION	INPRO	2" X 2" STAINLESS STEEL	STAINLESS STEEL	REFER TO FINISH PLAN FOR LOCATION.
SPECIALTY	FRP-1	FIBER REINFORED PANEL	INPRO		TBD-FROM MANFG FULL RANGE	PRIME AND (2) TOP COATS REQUIRED PRIOR TO INSTALLATION
SPECIALTY	SS-1	STAINLESS STEEL PANEL	INPRO		STAINLESS STEEL	
WALL						
WALL	EX	EXISTING				
WALL	P-1	PAINT	PPG	SEE SPECIFICATIONS	OC120 SEASHELL	GENERAL DINING
WALL	P-2	PAINT	PPG	SEE SPECIFICATIONS	OC57 WHITE HERON	TRIM, GWB CEILING INSET
WALL	SP-1	SPECIALTY PAINT	PPG	SEE SPECIFICATIONS		

MATERIAL KEY

- ETR — EXISTING TO REMAIN
- RESINOUS FLOORING
- WALK-OFF CARPET TILE
- PATCH AND REPAIR EXISTING SHEET GOODS
- WALK-OFF MAT SLAT SYSTEM
- PATCH AND REPAIR EXISTING TILE
- ALTERNATE #1 RESINOUS FLOORING

ALTERNATE #1
CORRIDOR 120A - EPOXY

REMOVE EXISTING SHEET FLOORING AND BASE. PREP FLOOR AND WALLS FOR NEW FINISHES. PROVIDE AND INSTALL EPOXY FLOORING WITH INTEGRAL COVE BASE.

GENERAL NOTES

1. PAINT PRODUCTS SHALL BE SINGLE SOURCED FROM PPG PAINT STORE, 91 N BROOKWOOD AVE., HAMILTON, OH 45013, (513) 737-1893 (STORE MANAGER: BRETT) - NO EXCEPTIONS, NO SUBSTITUTIONS.
2. PAINT COLOR AND FINISH TO MATCH EXISTING (UNO). CONTRACTOR TO SUBMIT COLOR MATCH FOR OWNER'S AND ARCHITECT'S APPROVAL.
3. WOOD TRIM PROFILESTO MATCH EXISTING. CONTRACTOR IS ENCOURAGED TO SALVAGE EXISTING WOOD TRIM. NEW TRIM SHALL BE CUT TO MATCH EXISTNG TRIM PROFILES EXACTLY. CONTRACTOR TO SUBMIT 2'-0" SAMPLES OF PROFILES IN SPECIFIED MATERIAL FOR APPROVAL.
4. DURING EPOXY FLOOR INSTALLATION CONTRACTOR SHALL SET UP STAND ALONE EXHAUST FANS AND HEPA FILTER UNITS TO MITIGATE ODORS.

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TITLE
FINISH SCHEDULES

SHEET NO.
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DOOR AND FRAME SCHEDULE

DOOR No.	ROOM NAME	EXISTING DOOR No.	HDW. SET	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR MAT.	DOOR TYPE	DOOR FIN.	FRAME MAT.	FRAME TYPE	FRAME FIN.	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	REMARKS
118	PICK-UP	E118	3	3' - 0"	8' - 4"	2"	WD	HG2	PAINT	WD	2	PAINT	F5/A8.1	D5/A8.1	F5/A8.1	2, 3
118.1	PICK-UP	E118.1	1	3' - 6"	8' - 0"	1 3/4"	WD	HG2	PAINT	WD AL CLAD	EX	PAINT	EX	EX	-	4
119	KITCHEN	-	4	3' - 0"	7' - 0"	1 3/4"	HM	NL1	PAINT	HM	3	PAINT	E2/A0.3	F2/A0.3	-	5, 6
120	ANTEROOM	-	5	3' - 0"	7' - 0"	1 3/4"	HM	NL1	PAINT	HM	1	PAINT	E1/A0.3	F1/A0.3	-	
120.1	CORRIDOR	-	2	6' - 0"	7' - 0"	1 3/4"	FIBERGLASS	F1	PAINT	HM	1	PAINT	C4/A0.3	E4/A0.3	F4/A0.3	1,7
123	LOCKERS	-	4	3' - 0"	7' - 0"	1 3/4"	HM	NL1	PAINT	HM	1	PAINT	E1/A0.3	F1/A0.3	-	

DOOR REMARKS

No.	REMARK
1	ADA THRESHOLD, FULL DEPTH OF WALL + 1"
2	EXISTING DOOR ASSEMBLY TO BE SALVAGED, REWORKED AND REINSTALLED. DOOR HARDWARE TO BE REPLACED. DOOR SWING IS CHANGED FROM RHR TO A LHR. CONTRACTOR MAY PROVIDE NEW BUT DOOR OGEE AND TRIM PROFILES ARE TO MATCH EXISTING
3	SEE ALSO SIDELIGHT HEAD SILL DETAIL F6/A8.1
4	REPLACE ROUND AUTO DOOR OPERATOR ACTIVATION PAD WITH VERTICAL ACTIVATION BAR
5	APPLIED WOOD TRIM TO HOLLOW METAL FRAME - SEE DETAILS
6	HOLLOW METAL PANEL TRANSOM
7	DOOR COLOR TO BE INTEGRAL TO DOOR MATERIAL MATCH DAKOTA LAND PPG#HDPPG1N04

HARDWARE SETS

HARDWARE SET 1:
EXISTING HARDWARE TO REMAIN

EXISTING HARDWARE:
4 BUTT HINGES
1 RIM PANIC DEVICE WITH EXTERIOR PULL TRIM
1 CYLINDER WITH CORE
1 AUTO DOOR OPERATOR (REMOVED)
1 KICK PLATE (INTERIOR)

NEW HARDWARE:
1 AUTO DOOR OPERATOR VERTICAL STYLE (INSIDE & OUTSIDE)

HARDWARE SET 2:

1 ELECTRIFIED CONTINUOUS HINGES
1 CONTINUOUS HINGES
2 VERTICAL SURFACE RODS (TOP & BOTTOM)
1 ELECTRIC EXTERIOR LEVER TRIM
1 CYLINDER
1 CORE
2 CLOSERS
1 ADA THRESHOLD, FULL WIDTH OF EXTERIOR WALL +1"
1 DOOR HARDWARE PROVIDED BY
1 ACCESS CONTROL
1 DELAID LOCAL ALARM
INCLUDED BY DOOR MANUFACTURER:
1. INTEGRAL BOTTOM SEAL
2. MEETING ASTRAGAL (BRUSH)

HARDWARE SET 3:

4 BUTT HINGES
1 RIM PANIC DEIVCE WITH EXTERIOR PULL TRIM
1 CYLINDER WITH CORE
1 OVERHEAD STOP
1 KICK PLATE (PUSH SIDE)
1 ACCESS CONTROL (FROM PICK-UP TO DINING)
1 ACCESS CONTROL (FROM DINING TO PICK-UP)

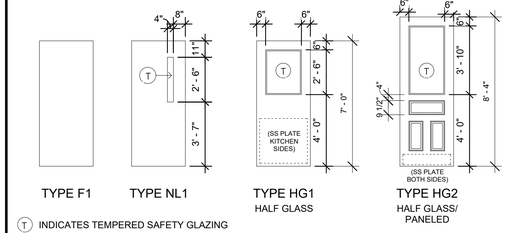
DELAYED EGRESS FROM DINING TO PICK-UP

HARDWARE SET 4:

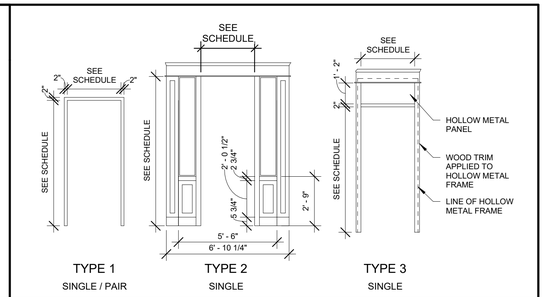
3 BUTT HINGES
1 STORAGE LOCKSET WITH LEVER TRIM
1 CYLINDER
1 CORE
1 CLOSER
1 WALL STOP
1 KICK PLATE (TALL) (KITCHEN SIDE)
1 ACCESS CONTROL

HARDWARE SET 5:

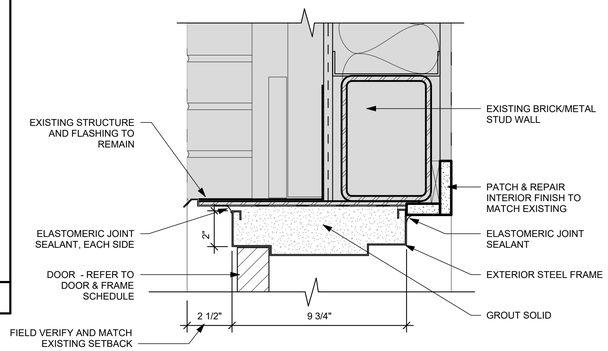
3 BUTT HINGES
1 STORAGE LOCKSET WITH LEVER TRIM
1 CYLINDER
1 CORE
1 CLOSER
1 OVERHEAD STOP
1 KICK PLATE (TALL) (PUSH SIDE)
1 ACCESS CONTROL



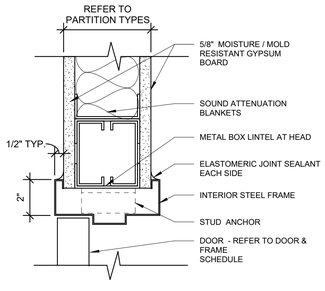
DOOR ELEVATIONS



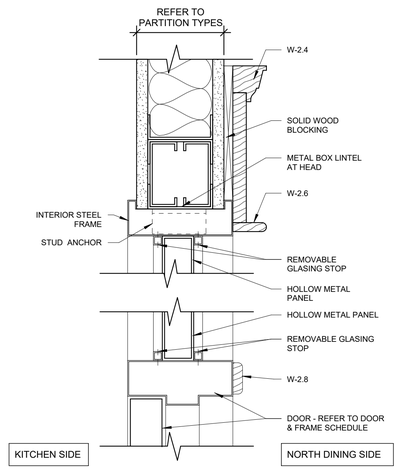
FRAME ELEVATIONS



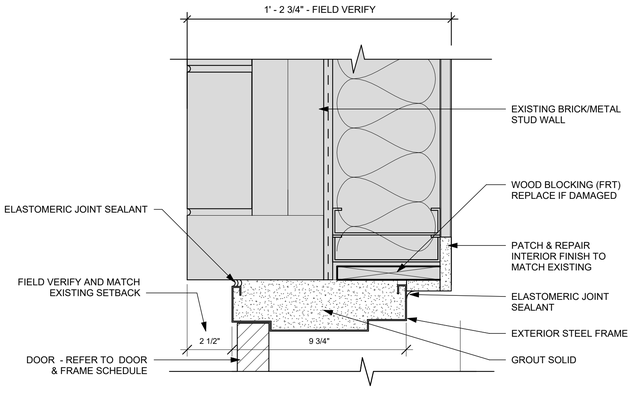
C4 TYP. EXTERIOR HEAD DETAIL @ STUD WALL
3" = 1'-0"



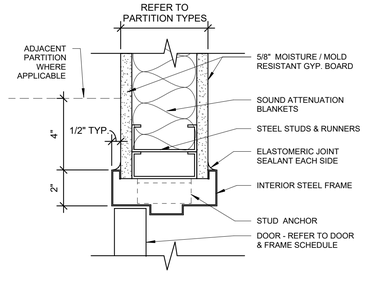
E1 INTERIOR DOOR HEAD DETAIL
3" = 1'-0"



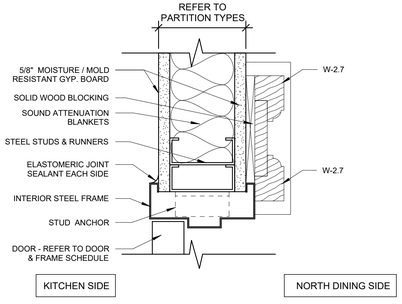
E2 HEAD DETAIL
3" = 1'-0"



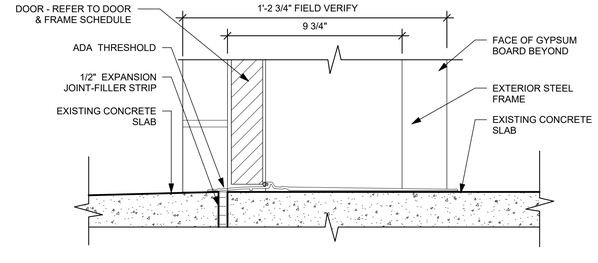
E4 EXTERIOR DOOR JAMB DETAIL
3" = 1'-0"



F1 INTERIOR DOOR JAMB DETAIL
3" = 1'-0"



F2 DOOR JAMB DETAIL
3" = 1'-0"



F4 EXTERIOR DOOR SILL DETAIL
3" = 1'-0"

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TITLE
DOOR SCHEDULES, WALL TYPES, & DETAILS

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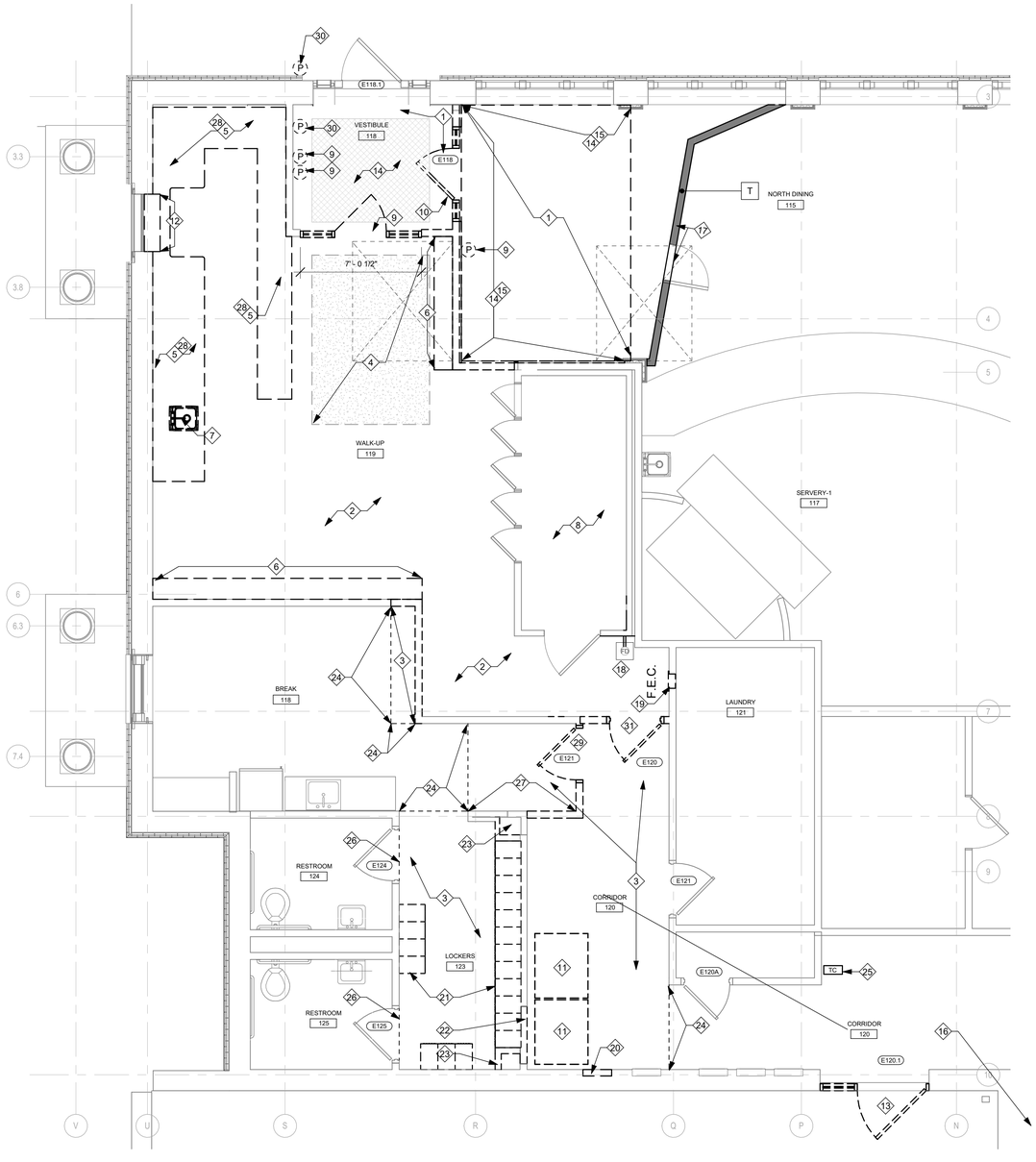


F3 DEMOLITION FLOOR PLAN
1/4" = 1'-0"

DEMOLITION NOTES

00 INDICATES DEMOLITION NOTE.

1 DEMOLISH TILE FLOORING, PREP FOR NEW WORK, COORDINATE WITH NEW WORK PLAN FOR EXTENTS OF REMOVAL. SEE FINISH SCHEDULE.

2 DEMOLISH TILE FLOORING AND TILE WALL BASE, PREP FOR NEW WORK,SEE FINISH SCHEDULE.

3 REMOVE SHEET FLOORING, PREP FOR NEW FLOOR FINISH, SEE FINISH SCHEDULE.

4 DEMOLISH RECESSED WALK-OFF MAT PREP FOR NEW WORK, SEE FINISH SCHEDULE.

5 DEMOLISH CAMBRIA QUARTZ COUNTER TOP. UNLESS NOTED OTHERWISE.

6 DEMOLISH PLASTIC LAMINATE BASE CABINETS, COUNTERTOP AND SLAT WALL (ABOVE).

7 SALVAGE STAINLESS STEEL SINK, FAUCET AND BASE CABINET, PROTECT, TURN OVER TO MIAMI, COORDINATE WITH MIAMI PROJECT MANAGER FOR DROP OFF LOCATION.

8 EXISTING COOLER TO REMAIN. WRAP ROOM SIDE OF COOLER WITH PLASTIC TO PREVENT MIGRATION OF DUST AND DEBRIS TO INSIDE OF COOLER DURING FULL COURSE OF CONSTRUCTION.

9 REMOVE AND SALVAGE INTERIOR DOOR AUTOMATIC DOOR OPERATOR AND PUSH ACTIVATOR. SALVAGE TURN OVER TO MIAMI, COORDINATE WITH MIAMI PROJECT MANAGER FOR DROP OFF LOCATION. SEE ELECTRICAL FOR ADDITIONAL INFORMATION.

10 REMOVE AND SALVAGE EXISTING DOOR ASSEMBLY, INCLUSIVE OF DOOR, DOOR FRAME AND DOOR HARDWARE FOR REINSTALLATION - SEE NEW WORK PLAN AND DOOR SCHEDULE FOR INFORMATION.

11 REMOVE AND DISPOSE OF DIGESTER EQUIPMENT.

12 REMOVE AND SALVAGE CAMBRIA QUARTZ WINDOW SILL / TRANSACTION COUNTER. SEE NEW WORK PLAN FOR REINSTALATON INFORMATION.

13 DEMOLISH DOOR. ASSEMBLY, INCLUSIVE OF HM FRAME, SIDE PANEL, DOOR AND DOOR HARDWARE.

NOTE: CONTRACTOR TO SCHEDULE THIS WORK WITH MIAMI PROJECT MANAGER AND DINING SERVICES DIRECTOR. EXISTNG DOOR TO BE REMOVED AND NEW DOOR INSTALLED IN ONE DAY. DOOR TO BE SECURE AND WEATHER TIGHT AT ALL TIMES.

14 REMOVE AND SALVAGE WOOD BASE, PROTECT. SEE NEW WORK PLAN FOR REINSTALLATION.

15 REMOVE AND SALVAGE WOOD CHAIRRAIL, PROTECT. SEE NEW WORK PLAN FOR REINSTALLATION.

16 REMOVE ADDITIONAL DIGESTER EQUIPMENT IN RM 134 (REFER TO KEY PLAN).

17 PROVIDE FULL HEIGHT TEMPORARY HARDWALL ENCLOSURE. PROVIDE DOOR ASSEMBLY WITH KEY ACCESS. MIAMI WILL PROVIDE BEST CORE AND KEYS. CAP WALL AT SKYLIGHT WELL TO MAINTAIN CONTAINMENT OF CONSTRUCTION DEBRIS AND MAINTAIN SECURITY.

18 EXISTING FLOOR DRAIN TO REMAIN.

19 REMOVE FIRE EXTINGUISHER AND RECESSED CABINET. PATCH WALL TO MATCH ADJACENT AND PREP FOR NEW FINISHES, SEE FINISH SCHEDULE.

20 CUT IN WALL TO PREPARE FOR NEW RECESSED ELECTRICAL PANEL.

21 DEMOLISH LOCKERS.

22 CUT IN NEW DOOR OPENING, COORDINATE WITH NEW WORK PLAN LOCATION.

23 PRIOR TO REMOVING FRAMING CONTRACTOR TO CUT SMALL OPENING AND CONFIRM CHASE IS EMPTY, INFORM OWNER AND ARCHITECT IF FOUND OTHERWISE.

24 CUT BACK EXISTING FLOORING FOR NEW CONSTRUCTION. COORDINATE WITH NEW WORK PLAN. PROTECT EXISTING TO REMAIN.

25 EXISTING WALL MOUNTED TIME CLOCK TO REMAIN. TIME CLOCK TO REMAIN ACCESSIBLE TO MIAMI STAFF FOR THE DURATION OF THE PROJECT.

26 EXISTING FLOOR TILE TO REMAIN. PREP FOR NEW TRANSITION TO NEW FLOORING IN LOCKERS 123.

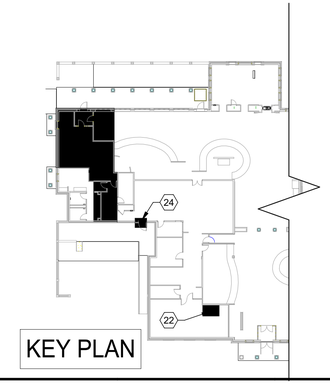
27 DEMOLISH SLATWALL SYSTEM.

28 SALVAGE STAINLESS STEEL BASE UNITS. TURN OVER TO MIAMI, COORDINATE WITH MIAMI PROJECT MANAGER FOR DROP OFF LOCATION. GC TO DELIVER UNITS TO OWNER DESIGNATED, ON CAMPUS LOCATION.

29 DEMOLISH DOOR ASSEMBLY INCLUSIVE OF DOOR FRAME, DOOR AND DOOR HARDWARE. TURN OVER LOCKSET AND PUSHBUTTON LOCK TO OWNER.

30 REMOVE AND SALVAGE AUTOMATIC DOOR OPERATOR AND PUSH ACTIVATOR. SALVAGE FOR POSSIBLE REINSTALLATION, IF NOT REINSTALLED TURN OVER TO MIAMI, COORDINATE WITH MIAMI PROJECT MANAGER FOR DROP OFF LOCATION. SEE NEW WORK FOR NEW ACTUATOR REQUIREMENTS.

31 DEMOLISH DOOR ASSEMBLY, SALVAGE LOCKSET AND TURN OVER TO OWNER.



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TITLE
DEMOLITION FLOOR PLAN

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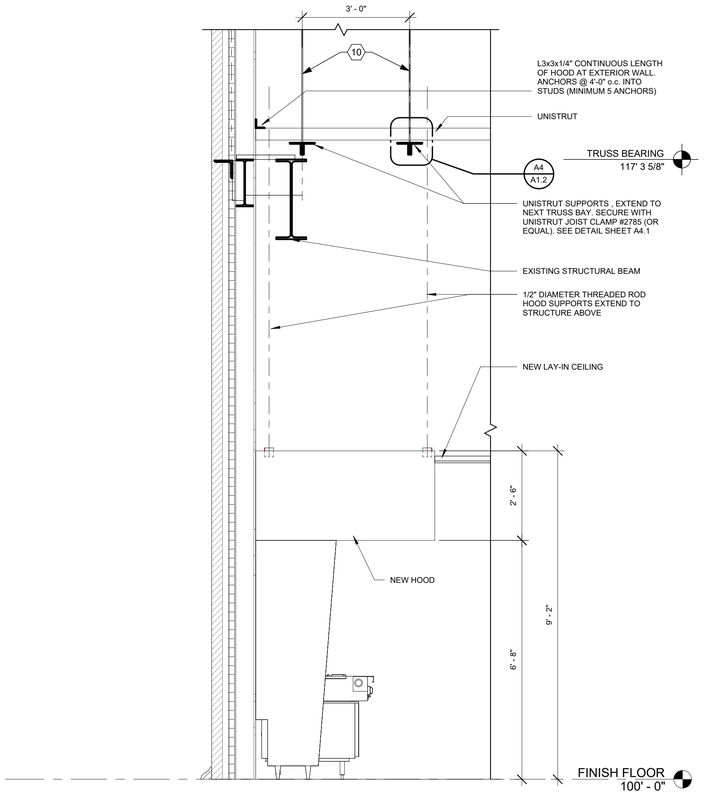
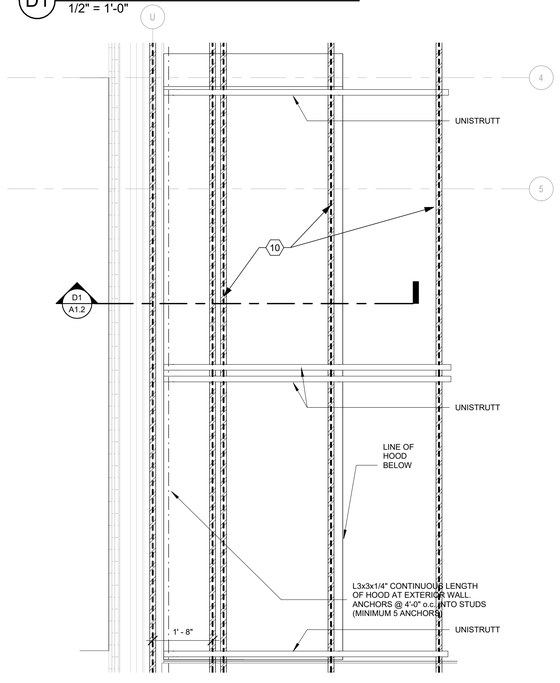
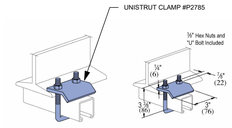


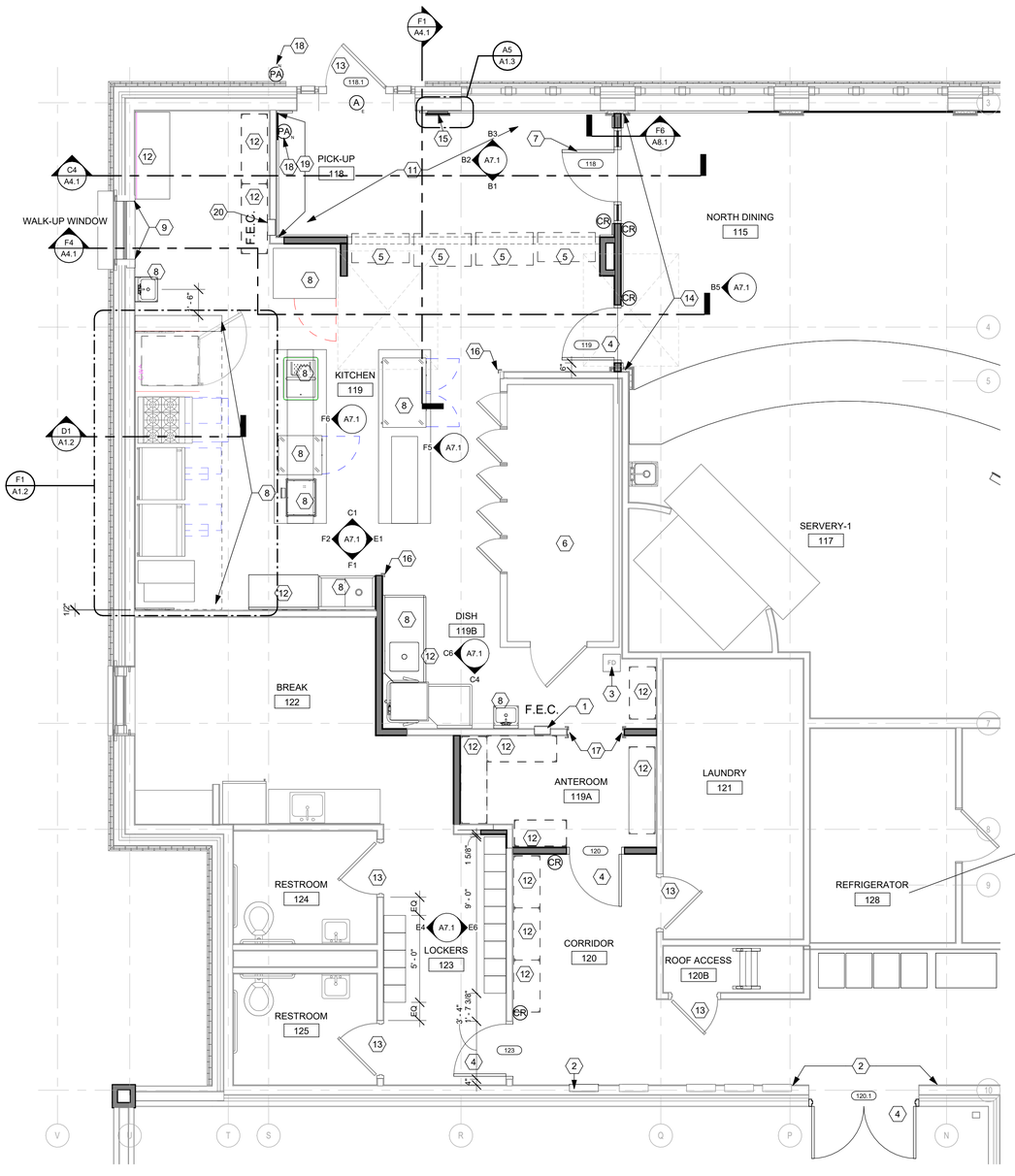
D1 HOOD BLOCKING SECTION
1/2" = 1'-0"



F1 EXHAUST HOOD BLOCKING PLAN DETAIL
1/2" = 1'-0"



A4 UNISTRUT DETAIL
3" = 1'-0"



F3 NEW WORK REFERENCE FLOOR PLAN
1/4" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 PROVIDE AND INSTALL SEMI-RECESSED FIRE EXTINGUISHER CABINET.

2 PATCH AND REPAIR FINISHES AFTER NEW CONSTRUCTION WORK. MATCH ADJACENT FINISHES UNLESS OTHERWISE NOTED.

3 EXISTING FLOOR DRAIN AND COOLER CONDESATE LINE TO REMAIN.

4 PROVIDE AND INSTALL NEW DOOR ASSEMBLY. REFER TO DOOR SCHEDULE.

5 INSTALL OWNER PROVIDED FOOD STORAGE LOCKER UNITS. SEE ENGINEERING DRAWINGS FOR UTILITY REQUIRMENTS.

6 EXISTING COOLER TO REMAIN.

7 INSTALL SALVAGED DOOR ASSEMBLY, REFER TO DOOR SCHEDULE.

8 OWNER FURINISHED AND INSTALLED KITCHEN EQUIPMENT. CONTRACTOR RESPONSIBLE FOR COORDINATION AND UTILITY CONNECTIONS. SEE ENGINEERING DRAWINGS AND EQUIPMENT PLAN.

9 REINSTALL CUT DOWN PICKUP WINDOW SOLID SURFACE SILL.

10 EXISTING METAL ROOF TRUSSES, CONTRACTOR TO FIELD VERIFY LOCATIONS AND INFORM OWNER / ARCHITECT OF ANY VARIATION.

11 NEW WOOD BASE AND WOOD CHAIR RAIL, PAINT. CONFIRM NEW PROFILE MATCHES EXISTING. REFER TO ELEVATION A7.1.

12 INSTALL OWNER FURNISHED KITCHEN EQUIPMENT. REFER TO EQUIPMENT PLAN A1.4.

13 EXISTING DOOR ASSEMBLY TO REMAIN, PAINT DOOR AND FRAME, BOTH SIDES.

14 NEW WOOD CROWN MOLDING, WOOD BASE AND WOOD CHAIR RAIL, PAINT. CONFIRM NEW PROFILE MATCHES EXISTING. REFER TO ELEVATION A7.1.

15 NEW PILASTER, SEE DETAIL.

16 STAINLESS STEEL CORNER GUARD, SEE NTERIOR ELEVATIONS FOR ADDITIONAL INFORMETION.

17 STAINLESS STEEL END GUARD, SEE NTERIOR ELEVATIONS FOR ADDITIONAL INFORMETION.

18 VERTICAL ACTUATOR PUSH PAD. AT EXTERIOR LOCATIN COORDINATE LOCATION WITH EXISTING HOSE BIB, PATCH MASONRY / MORTAR TO MAINTAIN ENVELOPE WEATHER TIGHT

19 SKIM COAT WALL PREPARE TO LEVEL 5 FINISH FOR OWNER'S NEW SIGNAGE INSTALLATION

20 PROVIDE AND INSTALL NEW SEMI RECESSED FIRE EXTINGUISHER CABINET, PROVIDE TYPE K FIRE EXTINGUISHER

GENERAL NOTES

A. LEGEND, TYPICAL (REFER TO MATERIAL LEGEND)

- (A) = AUTOMATIC DOOR OPERATOR
- (PA) = PUSH ACTUATOR FOR DOOR OPERATOR
- (CR) = CARD READER

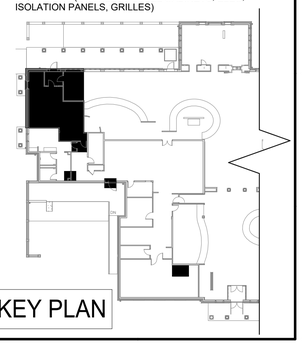
B. ALL DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE OF CONSTRUCTION UNLESS NOTED OTHERWISE. WHERE DISCREPENCIES OCCUR BETWEEN DETAIL PLANS AND OTHER DISCIPLINES DRAWINGS, CONSULT THE OWNER AND ARCHITECT FOR CLARIFICATION.

C. G.C. TO PATCH AND REPAIR ALL WALLS WHERE P.M.E. DEVICES HAVE BEEN REMOVED. PREPARE WALL SURFACE FOR NEW FINISH.

D. INSTALL SOLID WOOD F.R.T. (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALL-MOUNTED ITEMS INCLUDING CASEWORK, RAILINGS, TOILET ACCESSORIES, EQUIPMENT, ETC.

E. G.G. PATCH AND REPAIR ALL STEEL FIREPROOFING DAMAGED DURING CONSTRUCTION ACTIVITIES.

F. CAULK PERIMETER OF ALL RECESSED WALL MOUNTED EQUIPMENT (STAINLESS-STEEL CABINETS, ELEC, ISOLATION PANELS, GRILLES)



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TITLE
NEW WORK FLOOR PLAN

SHEET NO.
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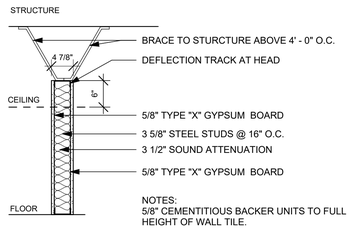
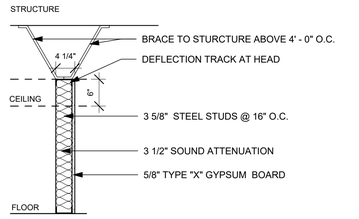
INTERIOR WALL TYPES SCHEDULE

TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
A1	3 5/8"	- -	
A2	3 5/8"		

GENERAL NOTES

A. MOISTURE/MOLD RESISTANT GYPSUM BOARD SHALL BE USED BEHIND ALL SINKS, SERVICE SINKS AND SHOWER AREAS. EXTEND MINIMUM 24" BEYOND PLUMBING FIXTURES.

B. PROVIDE & INSTALL DEFLECTION TRACK AT ALL INTERIOR WALLS THAT EXTEND TO DECK.

C. UL TEST NUMBERS FOR INTERIOR PARTITIONS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED. MAINTAIN RATING AND ADVISE IF WALL THICKNESS WILL CHANGE.

D. DRYWALL CONTRACTOR TO PAINT WALL RATINGS LABELS AT MAXIMUM 12 FEET O.C. ON ALL FIRE RATED PARTITIONS. LABEL TO BE PAINTED ABOVE CEILING WITH A STENCIL MIN. OF 4 INCHES IN HEIGHT, BLACK COLOR.

E. FIRE RATED WALLS AND SMOKE PARTITIONS ARE TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING AND OTHER PENETRATIONS. ALL PENETRATIONS AND PERIMETER OF WALLS TO BE FIRE CAULKED.

F. STEEL STUD PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.

G. REFER TO FLOOR PLANS FOR LOCATIONS OF INTERIOR PARTITION TYPES.

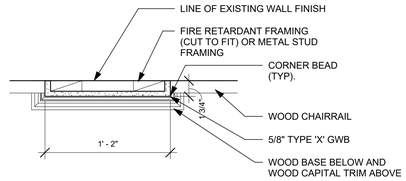
H. REFER TO THIS SHEET FOR TYPICAL INTERIOR PARTITIONS DETAILS.

I. ALL PENETRATIONS IN FIRE RATED PARTITIONS SHALL BE FIRESTOPPED, WHETHER THEY ARE NEW OR EXISTING. INCLUDING THOSE CREATED BY THE REMOVAL OF AN EXISTING PENETRATING ITEM. FIRESTOPPING SYSTEMS SHALL BE FM OR U.L. LABORATORY APPROVED PRODUCTS.

J. AT ALL STC-RATED ACOUSTICAL / SOUND CONTROL TYPE PARTITIONS APPLY ACOUSTICAL SEALANT AT PERIMETER OF PARTITION AND AROUND ELECTRICAL RECEPTACLES, PIPES AND & DUCT PENETRATIONS. ACOUSTICAL SEALANT SHALL BE APPLIED TO BOTH FACES OF PARTITION.

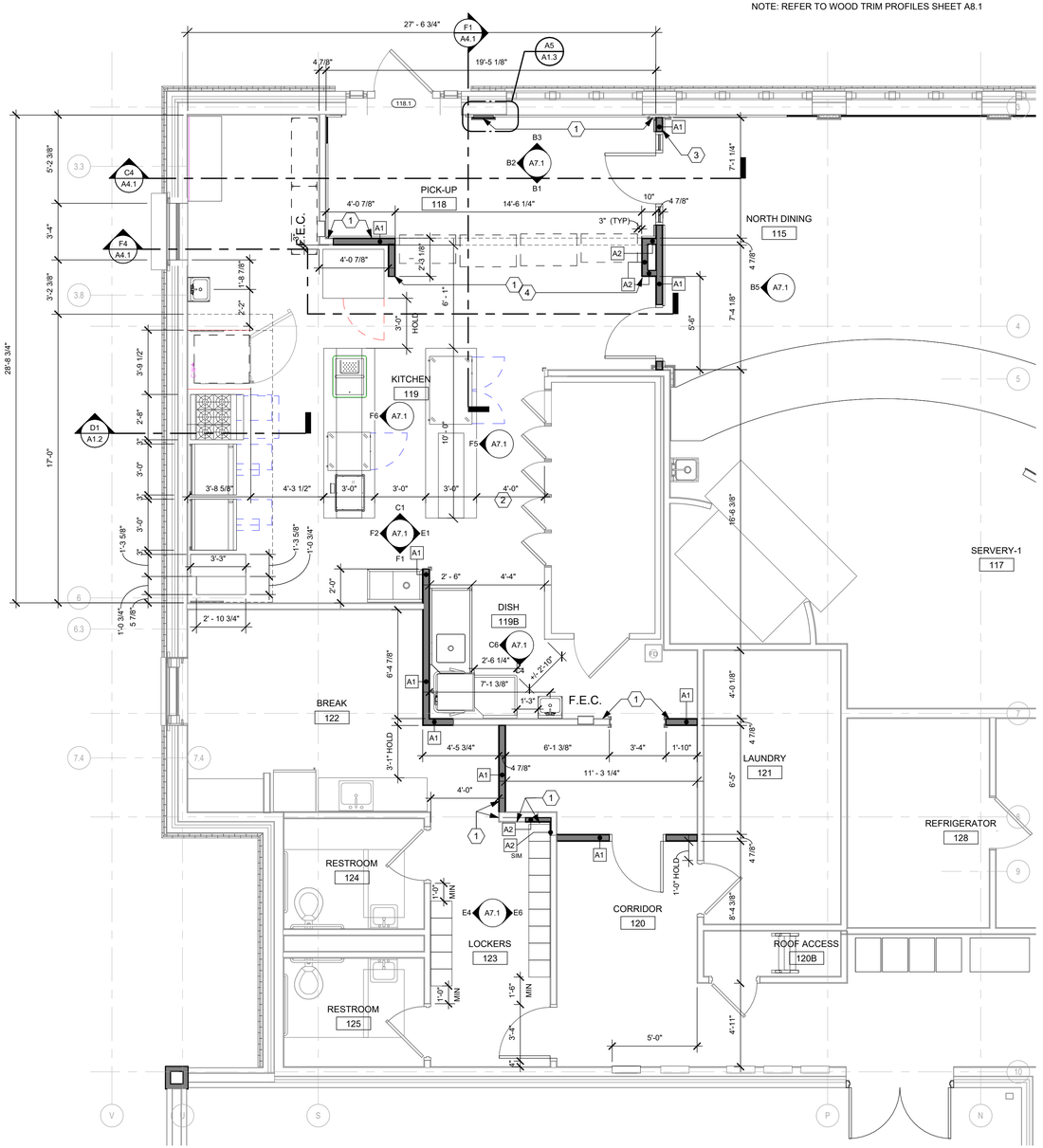
K. EXISTING BUILDING FLOOR TO FLOOR HEIGHTS FOR AREAS OF WORK:

- BASEMENT TO FIRST FLOOR: 11'-0"
- FIRST FLOOR TO FLAT ROOF: 13'-10"
- FIRST FLOOR TO TRUSS BEARING: 17'-6" +/- (GABLE ROOF)



A5 PILASTER DETAIL
1 1/2" = 1'-0"

NOTE: REFER TO WOOD TRIM PROFILES SHEET A8.1



F3 NEW WORK DIMENSION PLAN
1/4" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 ALIGN

2 REFER TO REFLECTED CEILING PLAN FOR ALIGNMENT.

3 CENTER WALL ON BEAM ABOVE. FIELD VERIFY ROOM 118 DIMENSIONS AND INFORM OWNER AND ARCHITECT OF DISCREPENCIES

4 VERIFY WITH OWNER FINAL FOOD LOCKER DIMENSIONS AND MANUFACTURER'S REQUIRED SPACING. COORDINATE WITH ARHITECT FOR ANY ADJUSTMENTS TO OPENING

GENERAL NOTES

A. LEGEND, TYPICAL (REFER TO MATERIAL LEGEND)

- (A) = AUTOMATIC DOOR OPERATOR
- (PA) = PUSH ACTUATOR FOR DOOR OPERATOR
- (CR) = CARD READER

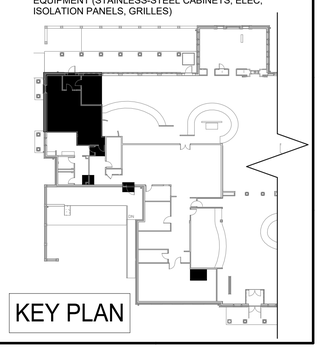
B. ALL DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE OF CONSTRUCTION UNLESS NOTED OTHERWISE. WHERE DISCREPENCIES OCCUR BETWEEN DETAIL PLANS AND OTHER DISCIPLINES DRAWINGS, CONSULT THE OWNER AND ARCHITECT FOR CLARIFICATION.

C. G.C. TO PATCH AND REPAIR ALL WALLS WHERE P.M.E. DEVICES HAVE BEEN REMOVED. PREPARE WALL SURFACE FOR NEW FINISH.

D. INSTALL SOLID WOOD F.R.T. (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALL-MOUNTED ITEMS INCLUDING CASEWORK, RAILINGS, TOILET ACCESSORIES, EQUIPMENT, ETC.

E. G.G. PATCH AND REPAIR ALL STEEL FIREPROOFING DAMAGED DURING CONSTRUCTION ACTIVITIES.

F. CAULK PERIMETER OF ALL RECESSED WALL MOUNTED EQUIPMENT (STAINLESS-STEEL CABINETS, ELEC, ISOLATION PANELS, GRILLES)



KEY PLAN

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Marianne L. Weber, License #9675
Expiration Date 12/31/2025

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TITLE
NEW WORK DIMENSION FLOOR PLAN

SHEET NO.
A1.3

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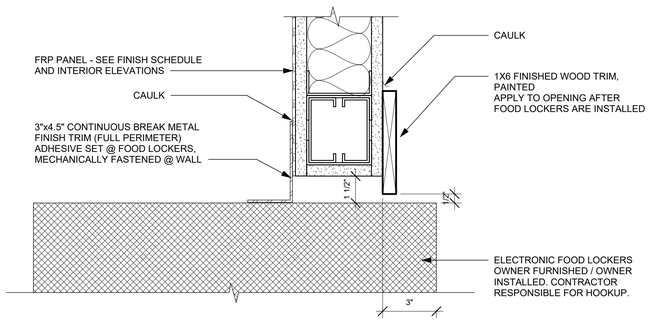
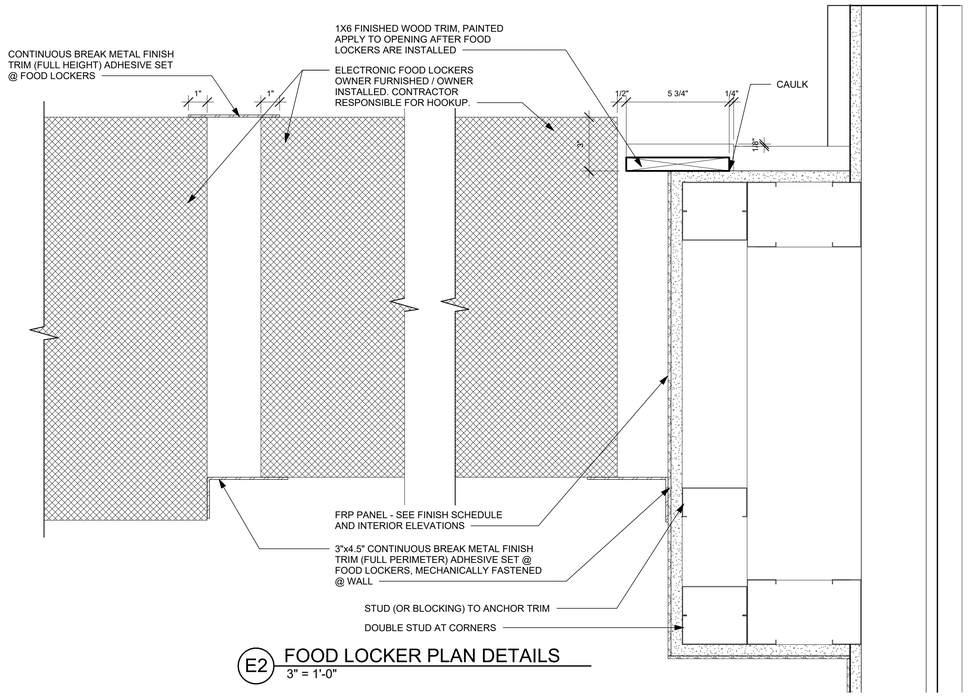


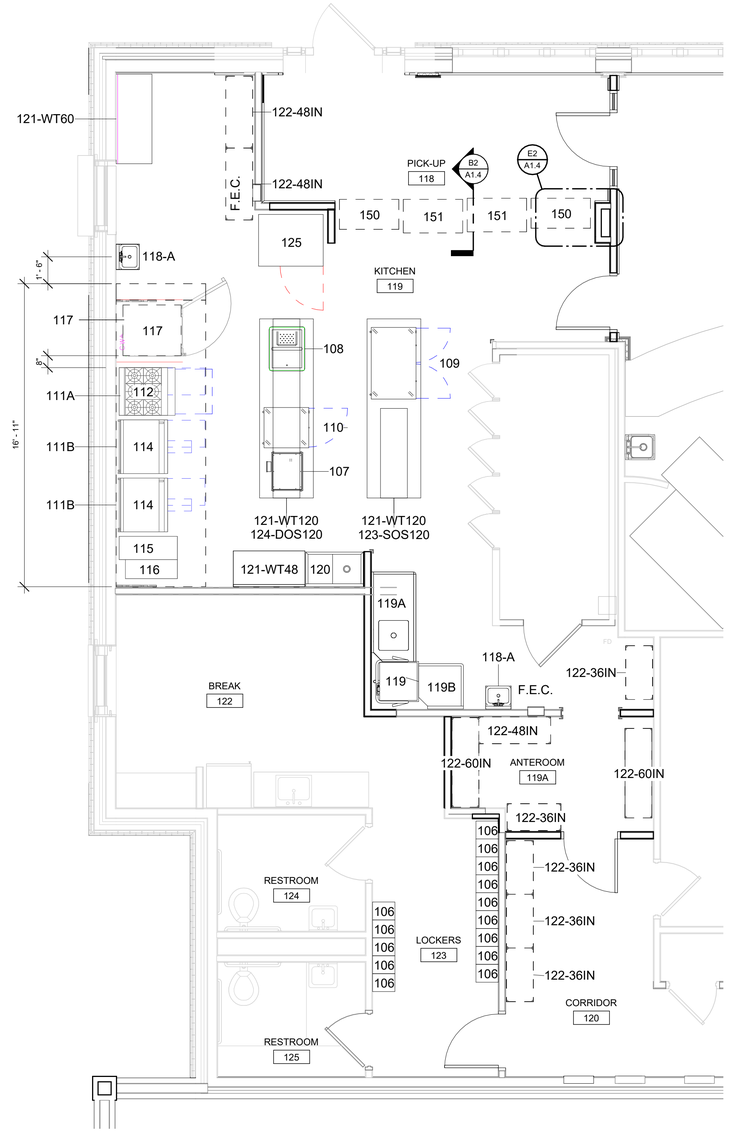
B2 SOFFIT DETAIL @ FOOD LOCKER
3" = 1'-0"



E2 FOOD LOCKER PLAN DETAILS
3" = 1'-0"

EQUIPMENT SCHEDULE

Mark	Manufacturer	DESCRIPTION	Model	EQUIP. PROVIDED BY	EQUIP. INSTALLED BY	COMMENTS
	<varies>	<varies>				
106	ASI	3 TIER LOCKER	SEE SPECIFICATIONS	GENERAL CONTRACT	GENERAL CONTRACT	
107	Hatco Corporation	BUILT-IN HEATED SHELVES	GRSB-24-I	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
108	Atlas Metal	Dual Temperture Hot/Cold Pan, Drop-In	WQHC-2	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
109	Hoshizaki	REFRIGERATOR, UNDERCOUNTER	UR48B-01	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
110	Hoshizaki	REFRIGERATOR, UNDERCOUNTER	UR27B-01	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
111A	SOUTHBEND	FREEZER BASE	30032SB	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
111B	SOUTHBEND	REFRIGERATED BASE	20036SB	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
112	SOUTHBEND	32" OPEN-TOP BURNER RANGE - MODULAR MOUNT	P32N-BBB	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
114	SOUTHBEND	COUNTERLINE- GRIDDLE HEAVY DUTY, THERMOSTATIC AND MANUAL, GAS	HDG-36	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
115	PITCO	FRYER	1-SF-SG14R-S	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
116	PITCO	CRISP HOLD	PCF14	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
117	RATIONAL	COMBIOVEN	CC1GRRA.0000238x2	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
118-A	JOHN BOOS	HAND SINK, WALL MOUNT	PBHS-W-1410-P-SSLR	OWNER	GENERAL CONTRACT	CONNECTIONS BY GENERAL CONTRACT
119	HOBART	DISHWASHING MACHINE	16T-BAS	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
119A	JOHN BOOS	DISHTABLE,SOILED	SDT6-S48SBK-L	OWNER	OWNER	
119B	JOHN BOOS	CLEAN STRAIGHT DISHTABLE	CDT6-S36SBK-R	OWNER	OWNER	
120	Elkay Manufacturer	WELDBILT SINGLE COMPARTMENT SCULLERY SINKS, LEFT DRAIN BOARD	Weldbilt	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
121-WT48	JOHN BOOS	WORK TABLE	ST6R5-2448SSK	OWNER	OWNER	
121-WT60	Advance Tabco	WORK TABLE	KMS-245	OWNER	OWNER	
121-WT120	Advance Tabco	WORK TABLE	TMS-3612	OWNER	OWNER	
122-36IN	EAGLE GROUP	FOUR SHELF UNIT	S4-74-1836C	OWNER	OWNER	
122-48IN	EAGLE GROUP	FOUR SHELF UNIT	S4-74-1836C	OWNER	OWNER	
122-60IN	EAGLE GROUP	FOUR SHELF UNIT	S4-74-1836C	OWNER	OWNER	
123-SOS120	Advance Tabco	WORK TABLE SINGLE OVERHEAD SHELF	TMS-3612	OWNER	OWNER	
124-DOS120	Advance Tabco	WORK TABLE DOUBLE OVERHEAD SHELF	TMS-3612	OWNER	OWNER	
125	Victory	BLAST CHILLER	VBCF-12-200U	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
150	APEX	HQ FLOW-THRU FOOD LOCKER (SATELLITE)	107FT	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT
151	APEX	HQ FLOW-THRU FOOD LOCKER (CONTROLLER)	108FT	OWNER	OWNER	CONNECTIONS BY GENERAL CONTRACT



F4 EQUIPMENT PLAN
1/4" = 1'-0"

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TITLE
EQUIPMENT PLAN

SHEET NO.
A1.4

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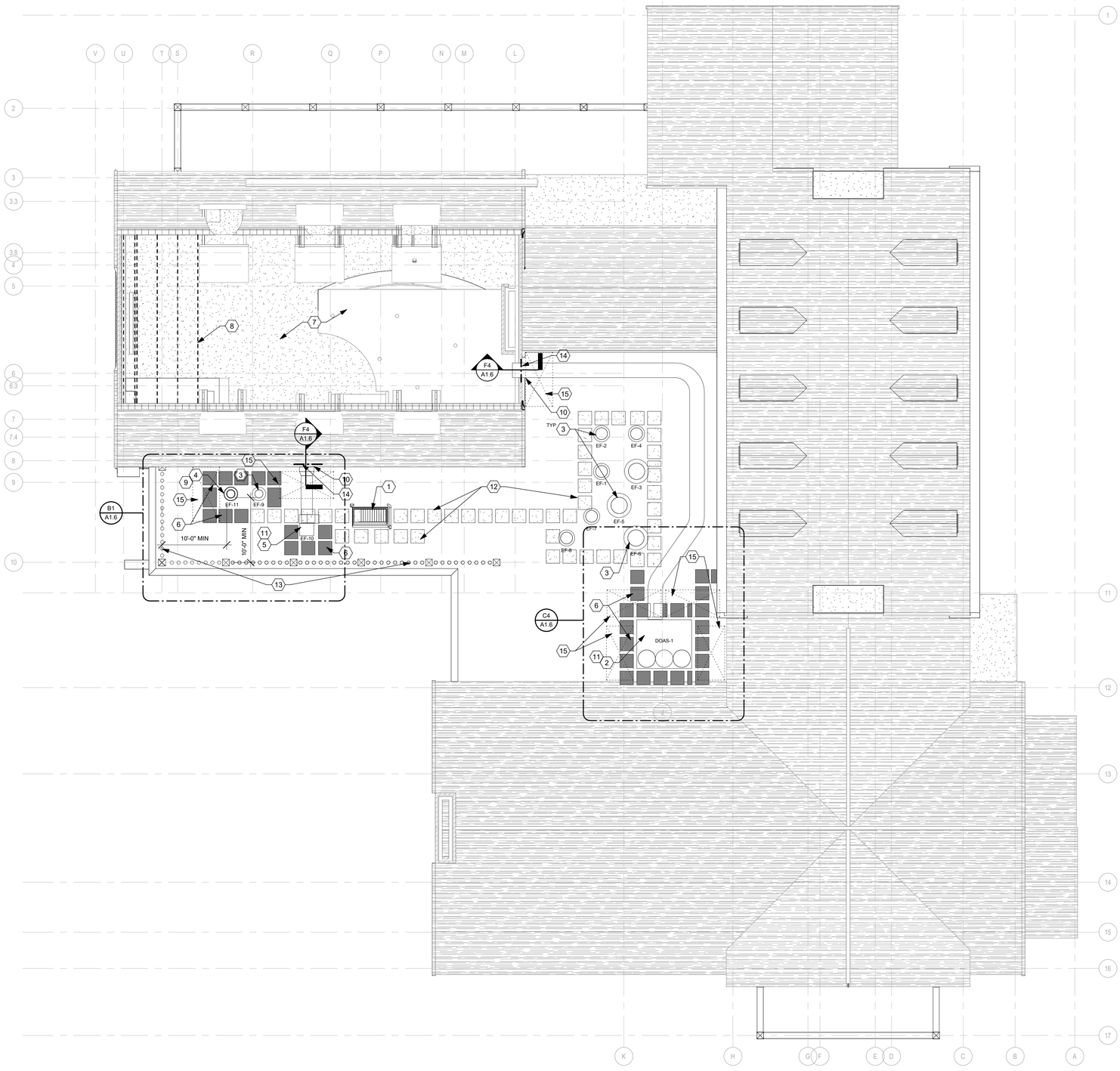

F1 ROOF PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 ROOF ACCESS LADDER.

2 NEW DOAS - SEE MECHANICAL.

3 EXISTING EXHAUST FAN TO REMAIN.

4 NEW EXHAUST FAN - SEE MECHANICAL.

5 NEW KITCHEN HOOD EXHAUST - SEE MECHANICAL.

6 PROVIDE AND INSTALL ROOFING WALK PADS. CARLISLE GEOTOUGH EPDM PRESSURE-SENSATIVE MOLDED WALKWAY PADS. SPACING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

7 ATTIC SPACE.

8 EXISTING ROOF TRUSSES 24" O.C. (FV)

9 CUT OPENING IN ROOF FOR MECHANICAL DUCT. PATCH AND REPAIR INSULATION AND EPDM ROOF. PROVIDE LETTER OF WARRANTY. SEE DETAILS FOR STRUCTURAL REQUIREMENTS

10 CUT OPENING IN WALL FOR MECHANICAL DUCT. PATCH AND REPAIR WALL, FLASH AND MAKE WEATHER TIGHT. SEE DETAILS FOR STRUCTURAL REQUIREMENTS

11 SET MECHANICAL CURB CUT BACK AND PATCH AND REPAIR INSULATION AND EPDM ROOF. PROVIDE LETTER OF WARRANTY. SEE DETAILS FOR STRUCTURAL REQUIREMENTS

12 EXISTING WALK PAD TO REMAIN

13 EXISTING 38" HIGH RAILING TO REMAIN

14 PROVIDE NEW OPENING WITH STEEL LINTEL IN MASONRY WALL FOR HVAC DUCTWORK. COORDINATE WITH HC FOR FINAL SIZE AND LOCATION. MINIMUM BRICK LINTEL 3" X 3" X 1/4" WITH 8" BEARING EACH SIDE.

15 CONTRACTOR SHALL PROVIDE ROOF PROTECTION DURING CONSTRUCTION WORK ON ROOF. PROTECTION SHALL CONSIST OF: 6 MILL HEAVY DUTY PLASTIC, 2" FOAM BOARD, 3/4" PLYWOOD .

GENERAL NOTES

A. ***

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TITLE
ROOF PLAN

SHEET NO.
A1.5

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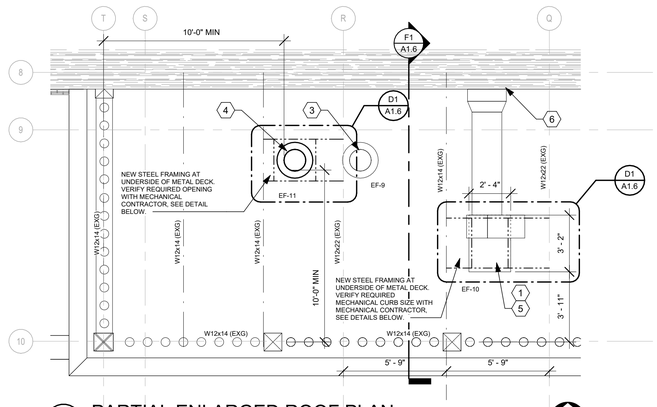
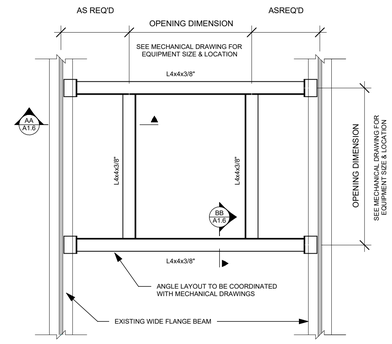


B1 PARTIAL ENLARGED ROOF PLAN
1/4" = 1'-0"

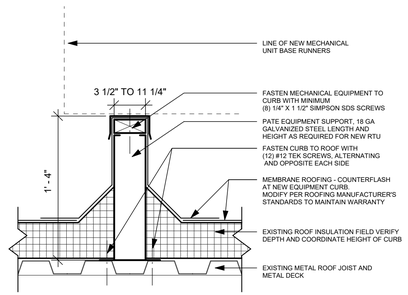
NOTE: EXISTING CONDITIONS SHALL BE FIELD VERIFIED. STRUCTURAL INFORMATION IS FOR REFERENCE AND SIZES, SPACING AND LOCATIONS SHALL BE FIELD VERIFIED



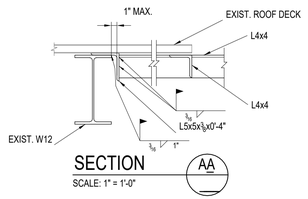
NOTES:

1. MECHANICAL EQUIPMENT/ROOF HATCH FRAMED OPENING SIZES AND LOCATIONS
   ARE TO BE COORDINATED WITH THE MECHANICAL AND/OR ARCHITECTURAL DRAWINGS.
2. SEE PLAN FOR FRAMED OPENING I.D. MARK LOCATION.
3. FIELD VERIFY ALL FRAMED OPENING LOCATIONS AND DIMENSIONS WITH THE MECHANICAL
   AND/OR ARCHITECTURAL DRAWINGS PRIOR TO CUTTING AND PLACEMENT OF FRAMES AS
   SHOWN ON STRUCTURAL DRAWINGS.
4. FOR CONDITIONS CONFLICTING OR DIFFERING WITH THE STRUCTURAL DRAWINGS, PLEASE
   CONSULT THE ENGINEER OF RECORD.

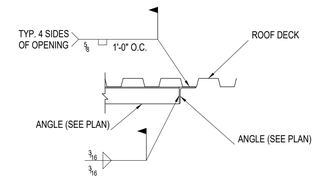
D1 ROOF FAN FRAMED OPENING PLAN
NOT TO SCALE



B3 MECHANICAL CURB DETAIL
1 1/2" = 1'-0"

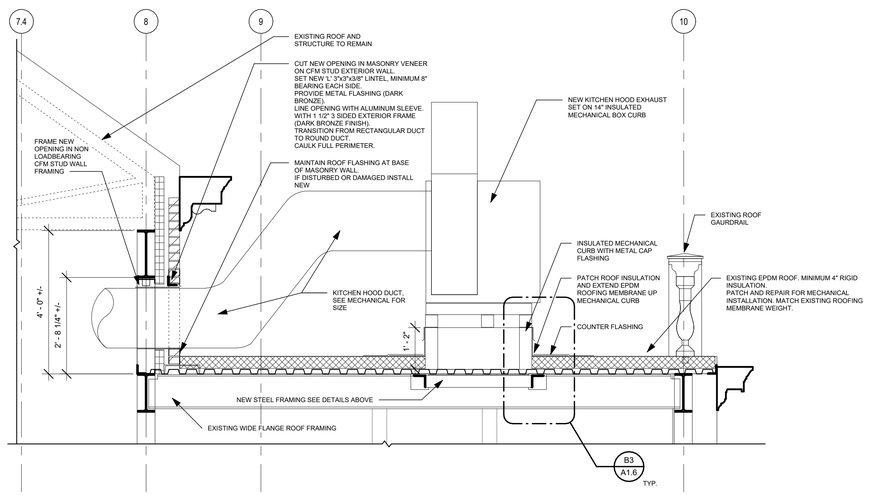


SECTION AA
SCALE: 1" = 1'-0"

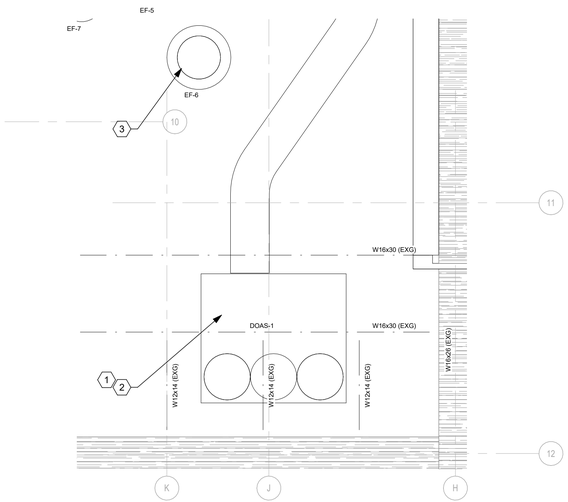


SECTION BB
SCALE: N.T.S.

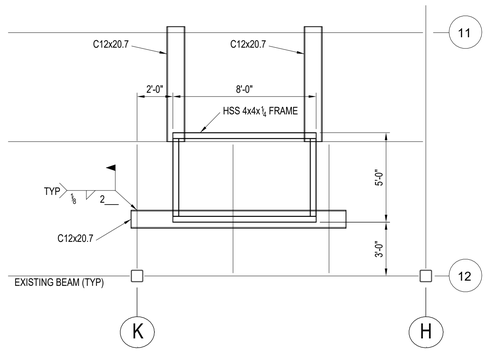
D3 ROOF FAN FRAMED OPENING SECTIONS
1/4" = 1'-0"



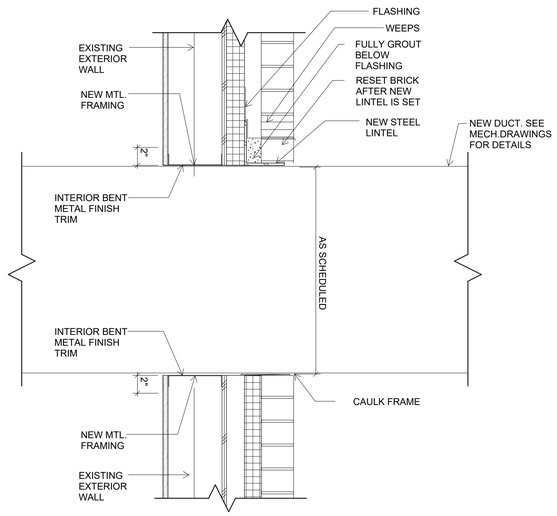
F1 EXHAUST DUCT OPENING
1/2" = 1'-0"



C4 PARTIAL ENLARGED RTU ROOF PLAN
1/4" = 1'-0"



E4 RTU SUPPORT FRAMING
NOT TO SCALE



F4 DUCT THRU WALL DETAIL
1 1/2" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 SET MECHANICAL CURB CUT BACK AND PATCH AND REPAIR INSULATION AND EPDM ROOF. PROVIDE LETTER OF WARRANTY. SEE DETAILS FOR STRUCTURAL REQUIREMENTS

2 NEW DOAS - SEE MECHANICAL.

3 EXISTING EXHAUST FAN TO REMAIN.

4 NEW EXHAUST FAN - SEE MECHANICAL.

5 NEW KITCHEN HOOD EXHAUST - SEE MECHANICAL.

6 CUT OPENING IN WALL FOR MECHANICAL DUCT. PATCH AND REPAIR WALL, FLASH AND MAKE WEATHER TIGHT. SEE DETAILS FOR STRUCTURAL REQUIREMENTS

GENERAL NOTES

A. ***

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TITLE
ENLARGED ROOF PLAN, STRUCTIAL PLANS & DETAILS

SHEET NO.
A1.6

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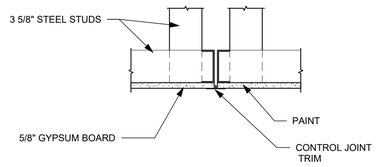
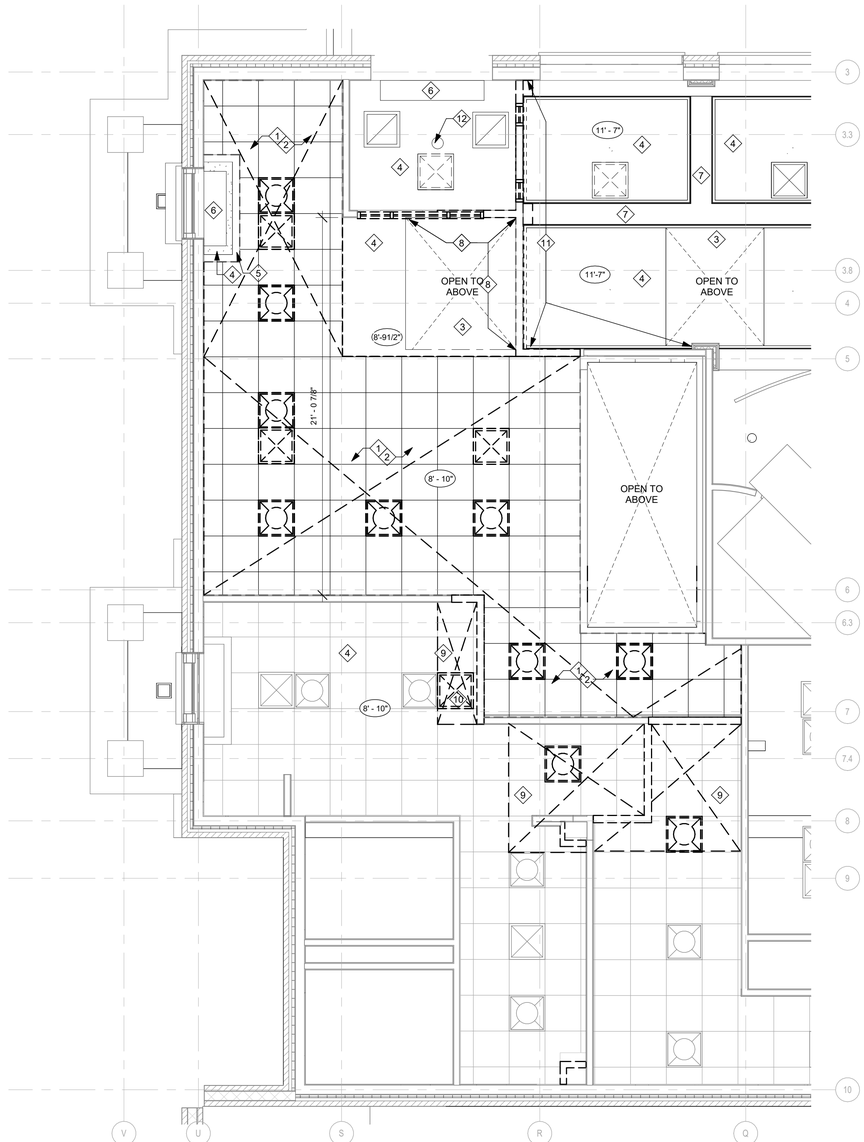
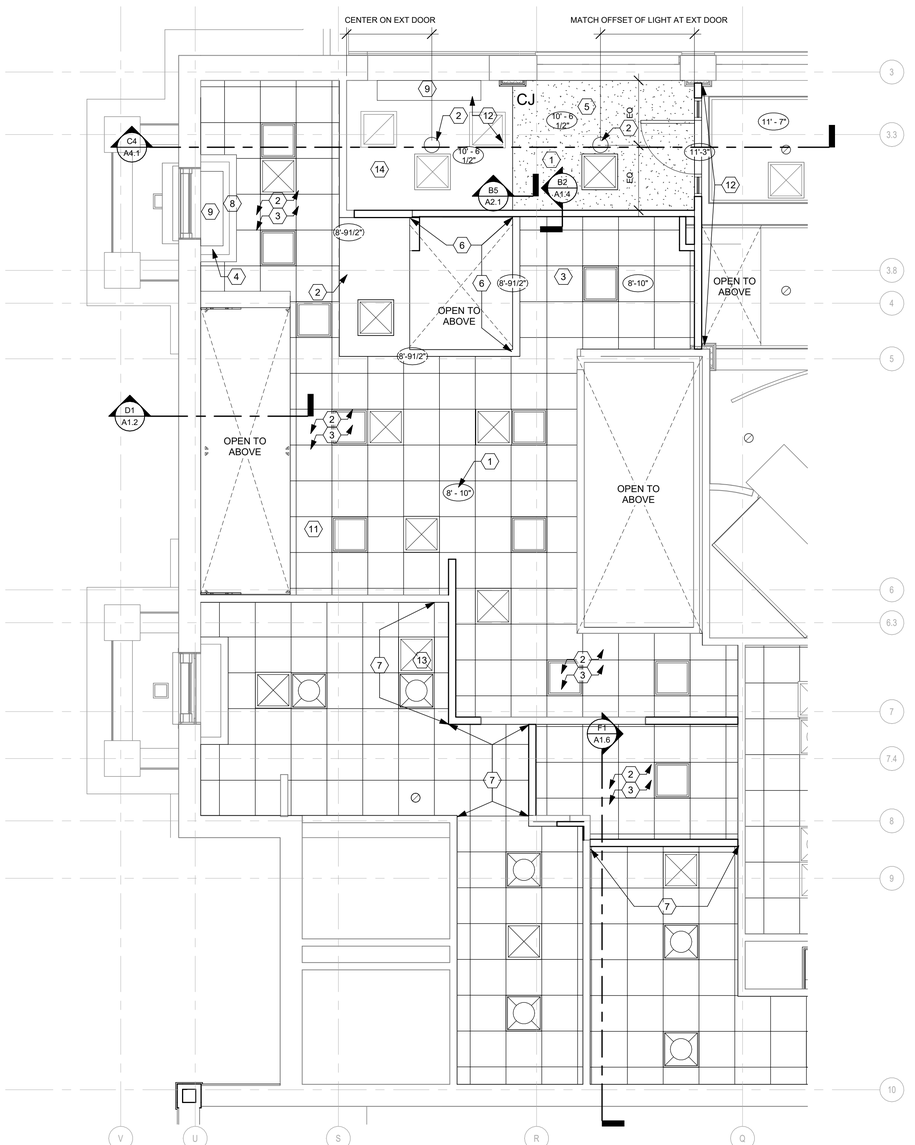


B5 JAMB DETAIL
1 1/2" = 1'-0"



F1 DEMOLITION CEILING PLAN
1/4" = 1'-0"



F4 NEW WORK CEILING PLAN
1/4" = 1'-0"

DEMOLITION NOTES

00 INDICATES DEMOLITION NOTE.

1 DEMOLISH ACOUSTIC PANEL CEILING SYSTEM.

2 DEMOLISH LIGHT FIXTURES.

3 EXISTING LIGHTWELL TO REMAIN

4 EXISTING CEILING TO REMAIN.

5 EXISTING BULKHEAD TO REMAIN.

6 EXISTING AIR CURTAIN TO REMAIN.

7 EXISTING BEAM STRUCTURE AND DETAILING TO REMAIN.

8 INTERIOR WALLS DEMOLISHED BELOW; REFRAME HEADER AND SOFFIT TO NEW CEILING HEIGHT.

9 REMOVE AND SALVAGE ACOUSTICAL CEILING PANELS, SEE NEW WORK PLAN FOR REINSTALLATION.

10 REMOVE AND SALVAGE AIR DEVICE SEE MECHANICAL DRAWINGS FOR REINSTALLATION

11 REMOVE AND SALVAGE CROWN MOLDING, VERIFY EXTENTS WITH NEW WORK PLAN.

12 rEMOVE LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 MATCH EXISTING CEILING HEIGHT THIS AREA.

2 LED LIGHT FIXTURE(S). PATCH DRYWALL CEILING AS REQUIRED FOR NEW INSTALLATION. REFER TO ELECTRICAL DRAWINGS.

3 NEW 2X2 ACOUSTIC PANEL CEILING, INCLUSIVE OF GRID, PANELS, AND TRIM.

4 EXISTING GWB CEILING

5 NEW GWB CEILING

6 NEW FRAMED GWB SOFFIT AT REMOVED WALL BELOW. TIE INTO AND MATCH EXISTING ADJACENT SOFFIT HEIGHT (UNO)

7 REINSTALL SALVAGED ACOUSTICAL CEILING PANELS FOR NEW ROOM LAYOUT

8 EXISTING BULKHEAD.

9 EXISTING AIR CURTAIN.

10 NOT USED

11 INSTALL OWNER FURNISHED KITCHEN EQUIPMENT. REFER TO EQUIPMENT PLAN A1.4.

12 NEW CROWN MOLDING. MATCH EXISTING PROFILE.

13 REINSTALL SALVAGED AIR DEVICE IN NEW LOCATION, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

14 EXISTING DRYWALL CEILING TO REMAIN, CONTRACTOR'S OPTION TO REMOVE AND REINSTALL FOR ACCESS ABOVE. INSTALL CONTROL JOINT BETWEEN EXISTING AND NEW CEILING.

GENERAL NOTES

A. PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS, INCLUSIVE OF DIMENSIONS AND CEILING ELEVATIONS, AND NOTIFY ARCHITECT (OWNER) OF ANY DISCREPANCIES.

B. REFER TO ROOM FINISH SCHEDULE AND SPECIFICATIONS FOR CEILING TYPES AND FINISHES

C. MEASURE CEILING LAYOUT GRIDS TO BALANCE WIDTHS AT OPPOSITE EDGES UNLESS NOTED OTHERWISE.

D. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL CEILING DEVICES AND DESCRIPTIONS.

E. INSTALL EDGE MOLDING AT PERIMETER.

F. LAY-IN ACOUSTICAL CEILING TILE SHALL BE CENTERED IN CORRIDOR AT ALL LOCATIONS UNLESS NOTED OTHERWISE.

G. REFER TO THIS SHEET FOR TYPICAL CEILING, BULKHEAD AND SOFFIT DETAILS.

H. NOT ALL LIGHT FIXTURES SHALL GRAPHICALLY APPEAR IN REFLECTED CEILING PLANS. REFER TO ELECTRICAL DRAWINGS FOR ROOM LAYOUTS.

I. ALL EXPOSED GYPSUM BOARD TO BE PAINTED. SEE FINISH SCHEDULE.

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ISSUE

NO.	DATE	DESCRIPTION
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	01/29/2025	BID & PERMIT

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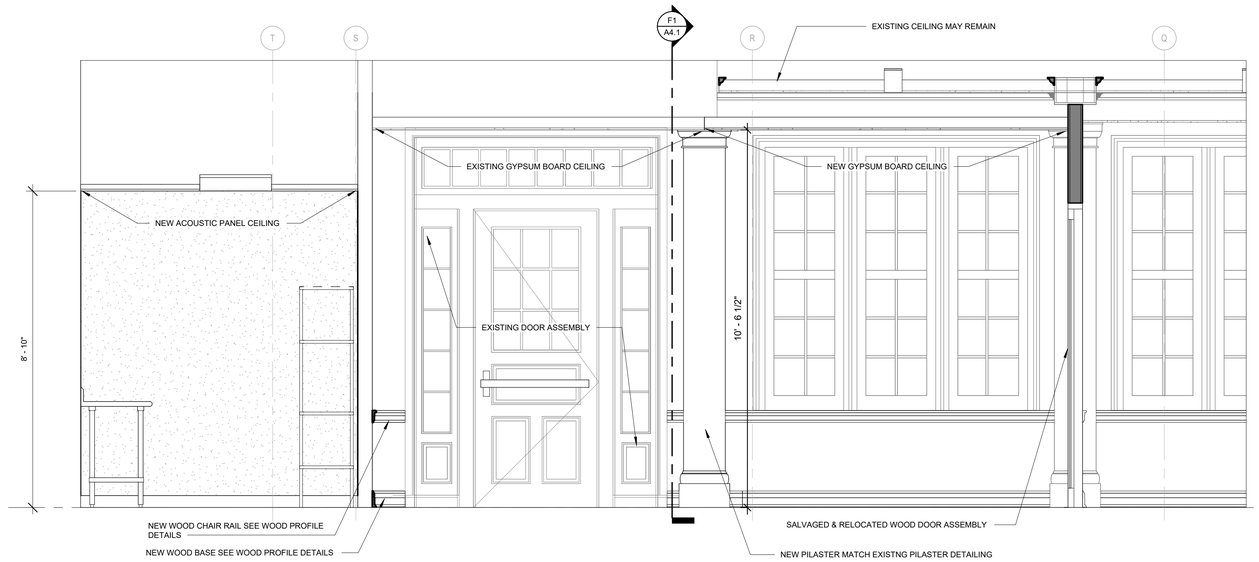
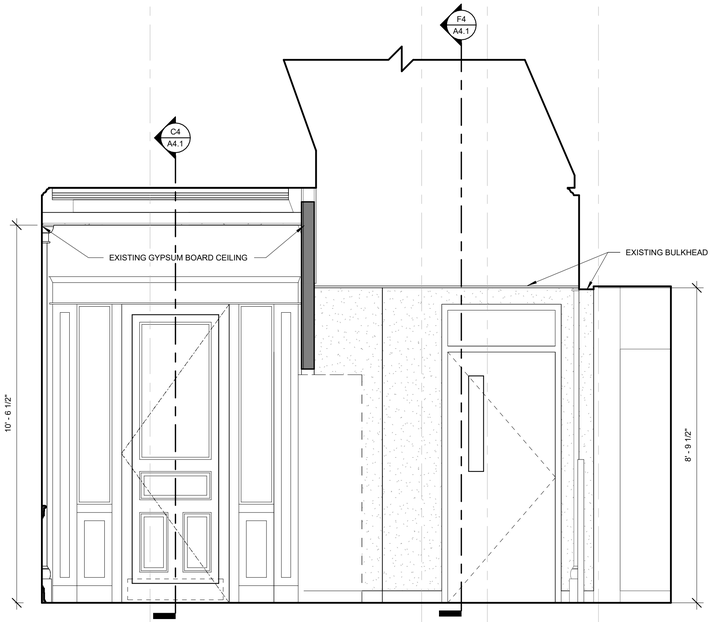
TITLE
DEMO & NEW WORK CEILING PLANS

SHEET NO.
A2.1

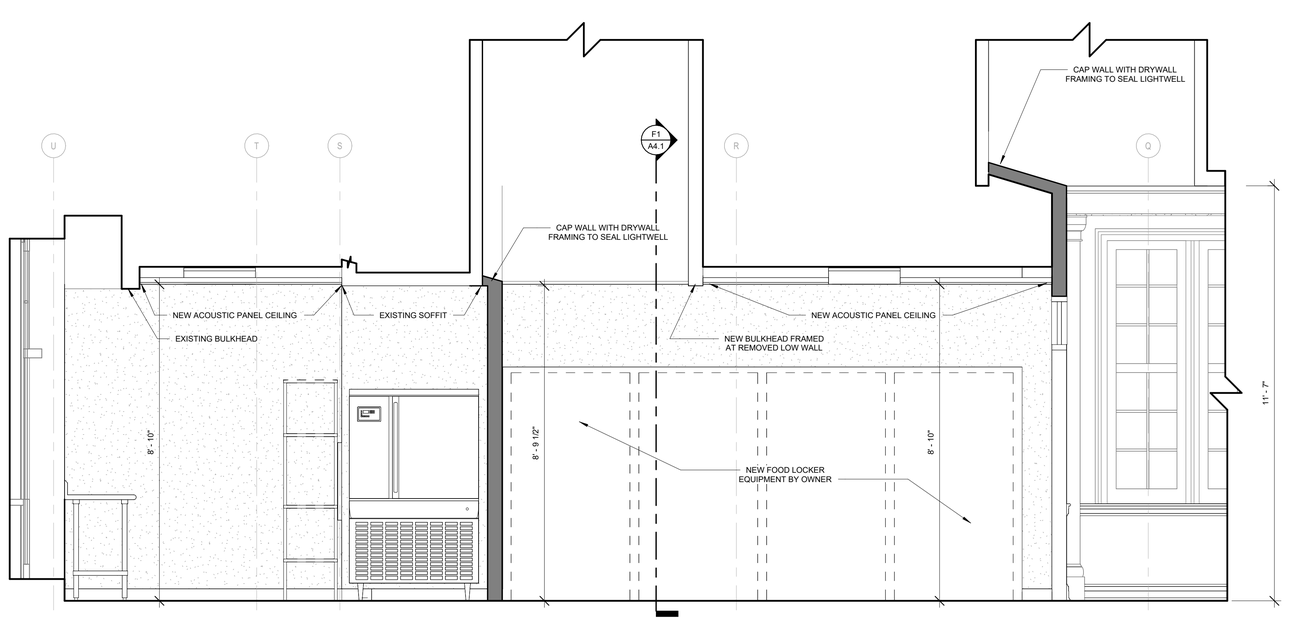
1/29/2025 1:37:28 PM



C4 RM 118 - PICK-UP ELEVATION SECTION, NORTH
1/2" = 1'-0"



F1 RM 118 - SERVERY SECTION, WEST
1/2" = 1'-0"



F4 RM 119 - KITCHEN ELEVATION/SECTION, NORTH
1/2" = 1'-0"

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TITLE
SECTIONS

SHEET NO.
A4.1

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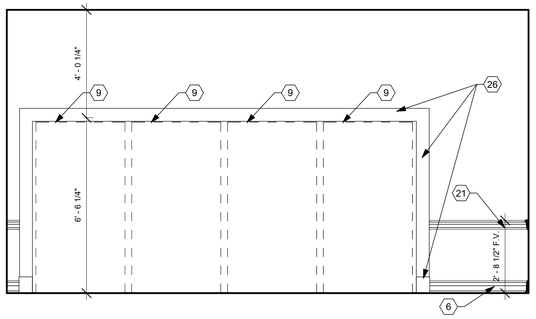
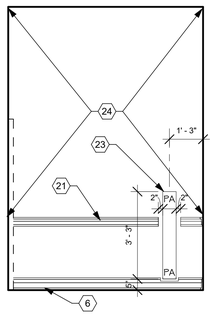
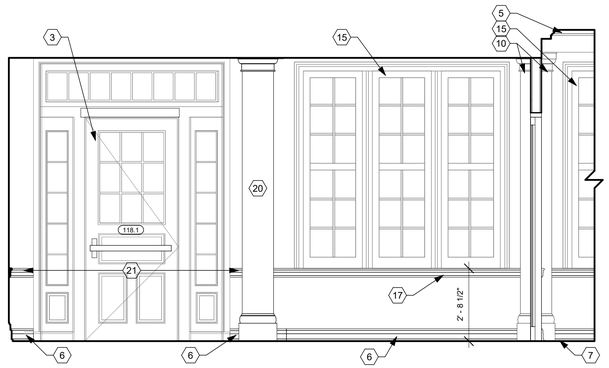


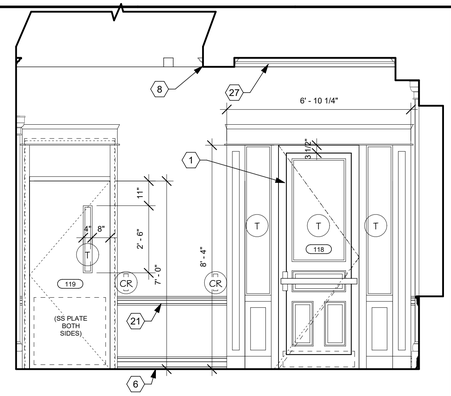
B1 RM 118 PICK-UP, SOUTH
3/8" = 1'-0"



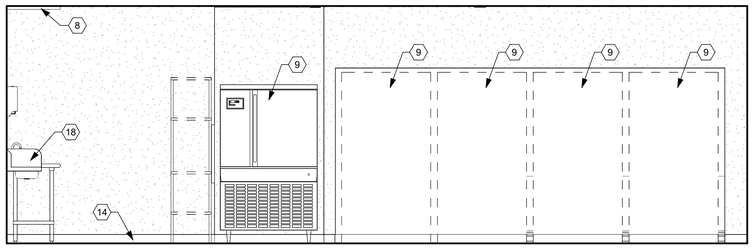
B2 RM 118 PICK-UP - W
3/8" = 1'-0"



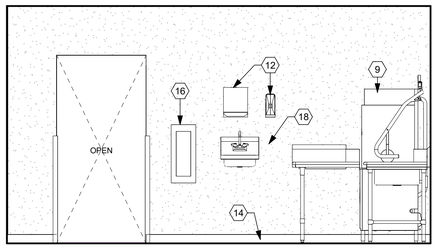
B3 RM 118 PICK-UP - NORTH
3/8" = 1'-0"



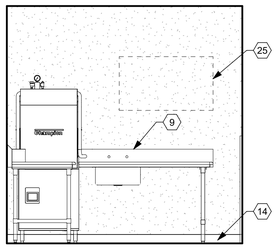
B5 RM 115 NORTH DINING - WEST
3/8" = 1'-0"



C1 RM 119 KITCHEN - NORTH ELEVATION
3/8" = 1'-0"



C4 RM 119B DISH - SOUTH ELEVATION
3/8" = 1'-0"



C6 119B - DISH, WEST
3/8" = 1'-0"

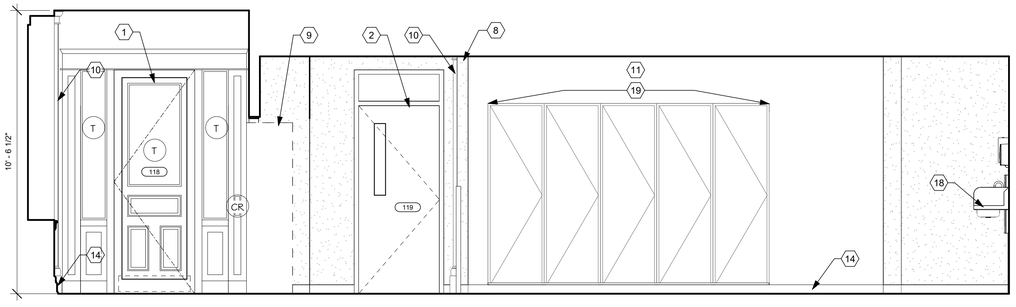
CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

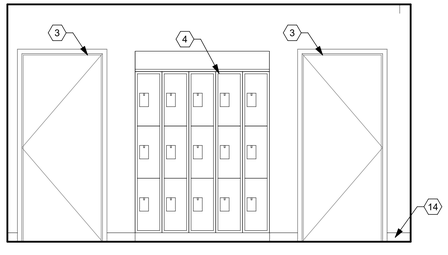
1 RELOCATED DOOR ASSEMBLY - SEE DOOR SCHEDULE.
2 NEW DOOR ASSEMBLY - SEE DOOR SCHEDULE
3 EXISTING DOOR, PAINT DOOR AND DOOR FRAME ON CONSTRUCTION SIDE OF DOOR.
4 NEW LOCKERS, (3) TIER WITH END PANELS, 4" BASE AND SLOPED TOP.
5 EXISTING W-1.1 CROWN MOLDING.
6 NEW W-3.2 WALL BASE. REFER TO MILLWORK PROFILES, SHEET A8.1.
7 EXISTING W-3.2 WALL BASE.
8 EXISTING SOFFIT/BULKHEAD.
9 NEW KITCHEN EQUIPMENT. REFER TO EQUIPMENT PLAN A1.4
10 EXISTING PILASTER.
11 EXISTING COOLER, PROTECT DURING CONSTRUCTION.
12 SOAP AND TOWEL DISPENSERS BY OWNER, CONTRACTOR TO PROVIDE BLOCKING IN WALL AND INSTALL EQUIPMENT.
13 REFURBISHED CAMBRIA QUARTZ WINDOW SILL.
14 NEW BASE, REFER TO FINISH SCHEDULE.
15 EXISTING WINDOW.
16 NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET.
17 EXISTING W-2.1 CHAIR RAIL.
18 NEW PLUMBING FIXTURE. REFER TO PLUMBING DRAWINGS.
19 EXISTING COOLER DOORS.
20 NEW PILASTER. REFER TO MILLWORK PROFILES, SHEET A8.1.
21 NEW CHAIR RAIL W-2.1. REFER TO MILLWORK PROFILES, SHEET A8.1.
22 NEW KITCHEN HOOD.
23 VERTICAL PUSH ACTUATOR, NOTCH CHAIR RAIL AND WOOD BASE MINIMUM 1" U.N.O. - SEE ELECTRICAL
24 SKIM COAT WALL AND PREPARE WALL TO A LEVEL 5 FINISH FOR OWNER'S NEW ARTWORK INSTALLATION.
25 WATER FILTRATION DEVICE, SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
26 1X6 SOLID WOOD FINISHED TRIM WITH PLINTH BLOCK, PAINTED
27 NEW W-1.1 CROWN MOLDING. REFER TO MILLWORK PROFILES, SHEET A8.1.

GENERAL NOTES

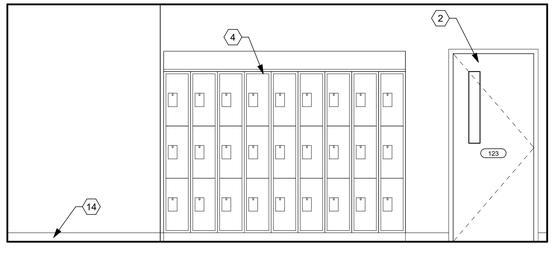
A. • • •



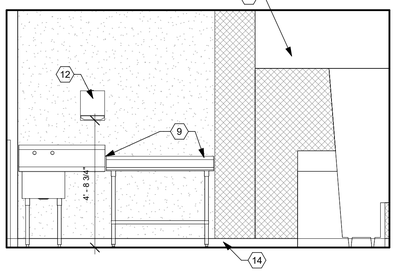
E1 RMS 118-119 - PICK-UP/KITCHEN EAST ELEVATION
3/8" = 1'-0"



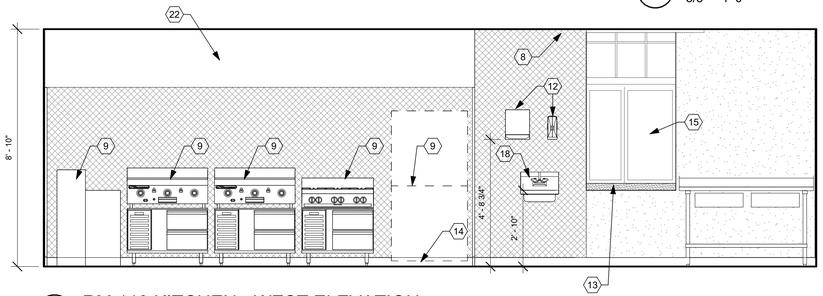
E4 RM 123 LOCKERS - WEST
3/8" = 1'-0"



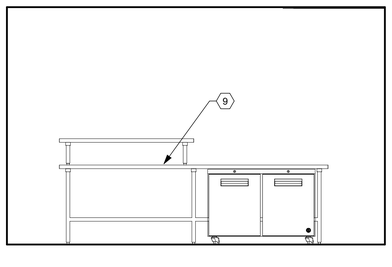
E6 RM 123 LOCKERS - EAST
3/8" = 1'-0"



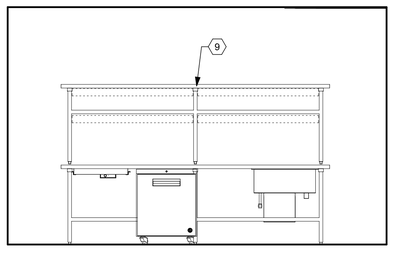
F1 RM 119 KITCHEN - SOUTH ELEVATION
3/8" = 1'-0"



F2 RM 119 KITCHEN - WEST ELEVATION
3/8" = 1'-0"



F5 PACKAGING TABLE
3/8" = 1'-0"



F6 EXPEDITE TABLE ELEVATION
3/8" = 1'-0"

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TITLE
INTERIOR ELEVATIONS AND SECTIONS

SHEET NO.
A7.1

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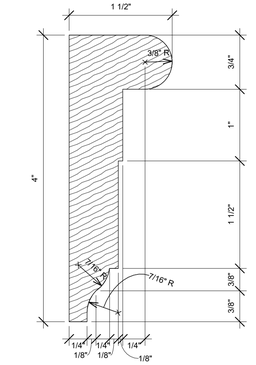
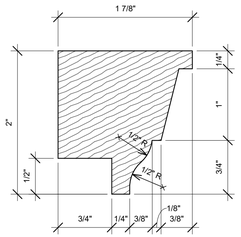


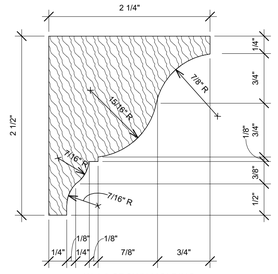
W-2.1 CHAIR RAIL

B1 CHAIR RAIL
12" = 1'-0"



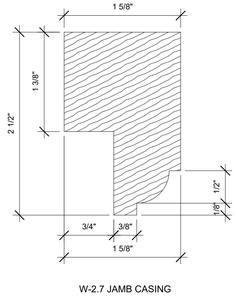
W-2.4 WINDOW / DOOR CASING

C1 WINDOW / DOOR CASING
12" = 1'-0"



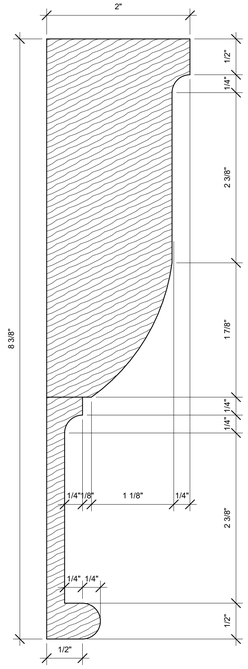
W-1.2 CROWN MOLDING

B2 CROWN MOLDING
12" = 1'-0"

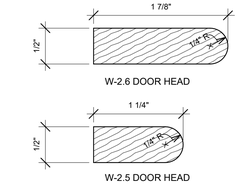


W-2.7 JAMB CASING

C2 JAMB CASING
12" = 1'-0"



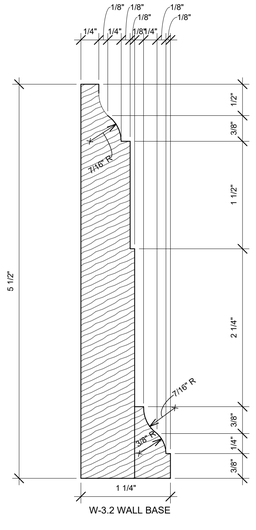
C3 PILASTER CAPITAL
12" = 1'-0"



W-2.6 DOOR HEAD

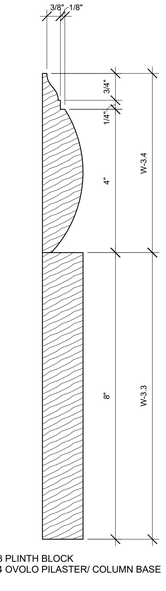
W-2.5 DOOR HEAD

D1 DOOR HEAD
12" = 1'-0"



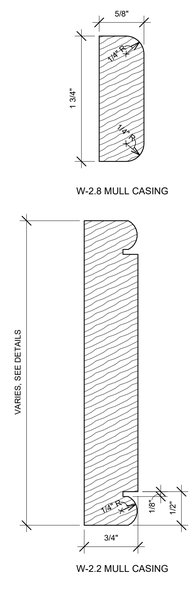
W-3.2 WALL BASE

F2 BASE
12" = 1'-0"



W-3.3 PLINTH BLOCK
W-3.4 OVOLO PILASTER/ COLUMN BASE

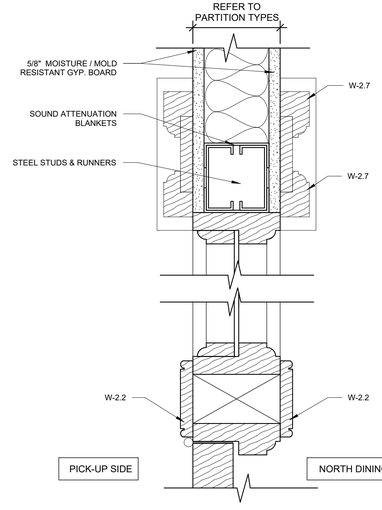
F3 PILASTER BASE
6" = 1'-0"



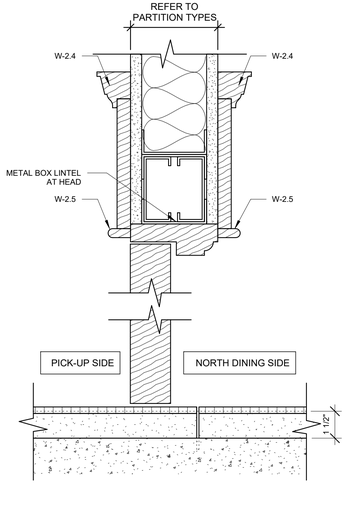
W-2.8 MULL CASING

W-2.2 MULL CASING

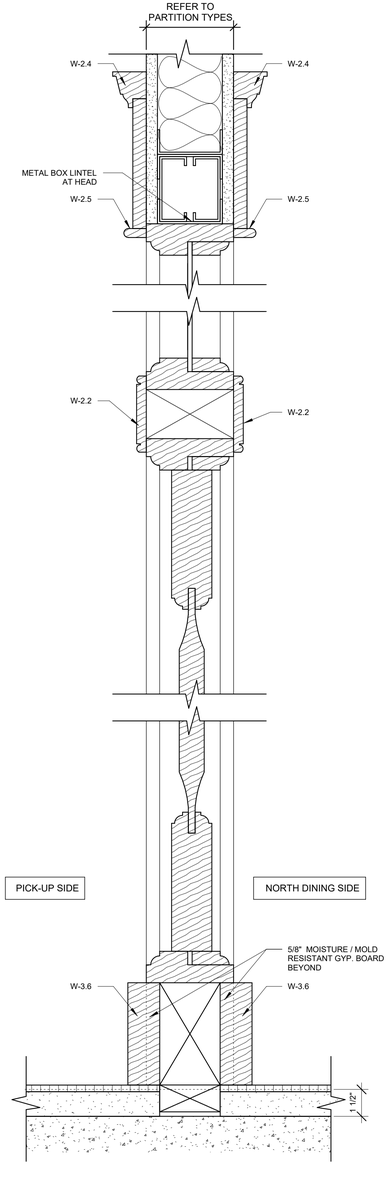
F4 MULL CASING
12" = 1'-0"



D5 WOOD DOOR & SIDELIGHT JAMB DETAIL
3" = 1'-0"



F5 WOOD DOOR HEAD & SILL DETAIL
3" = 1'-0"



F6 WOOD SIDELIGHT HEAD & SILL DETAIL
3" = 1'-0"

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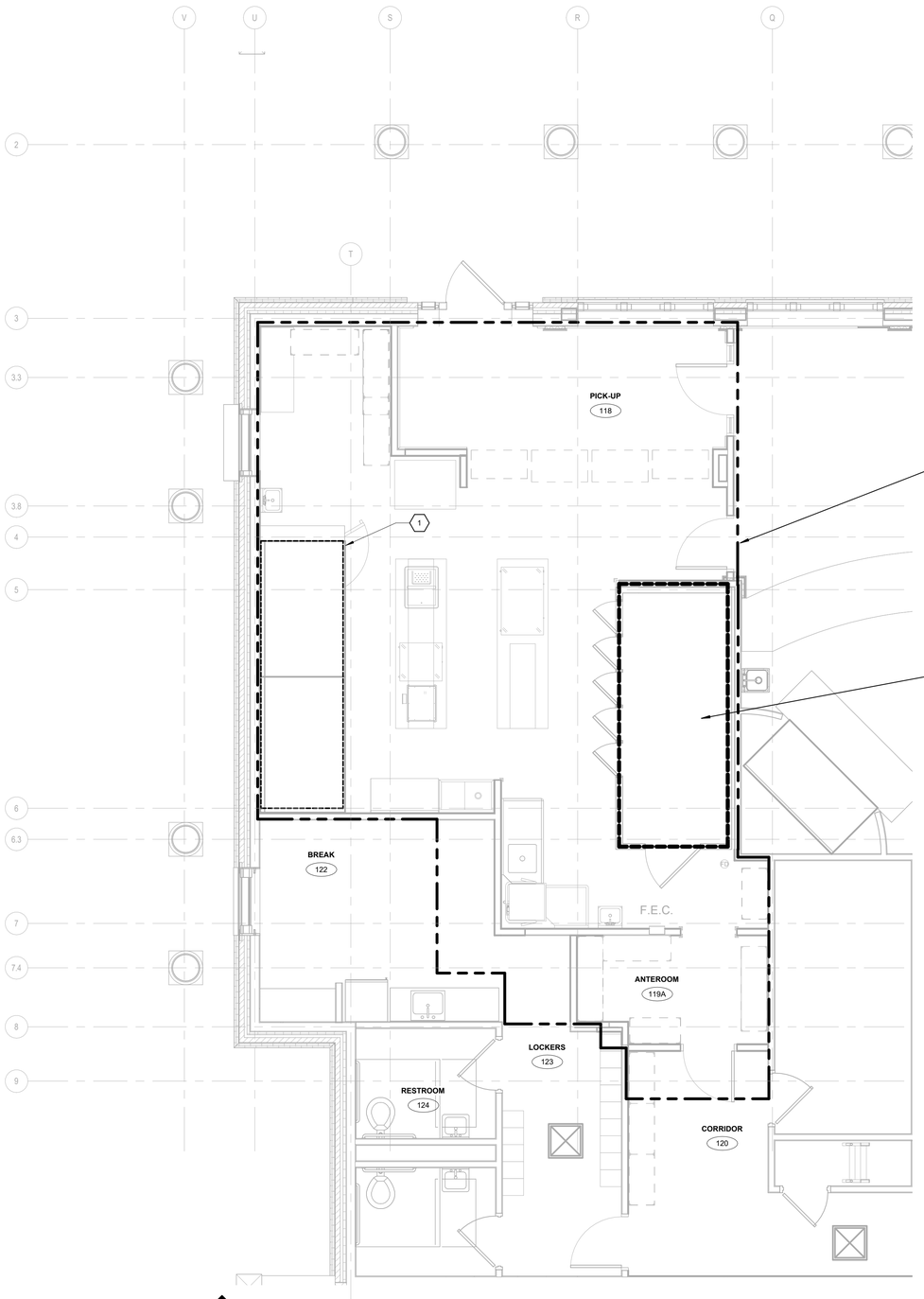
TITLE
TRIM & CASEWORK DETAILS

SHEET NO.
A8.1

1/29/2025 1:37:32 PM

CODED NOTES ⬡

1. COOKING HOOD FIRE SUPPRESSION SYSTEM SUPPLIED BY OTHER; COORDINATE SPRINKLER COVERAGE WITH HOOD AND KITCHEN EQUIPMENT CONTRACTOR PER NFPA PAMPHLET 13 REQUIREMENTS.



EXISTING BUILDING SPRINKLER NOTE

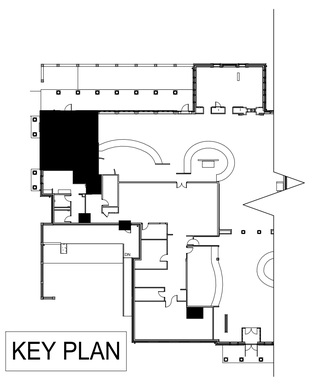
MODIFY THE EXISTING BUILDING F.P. SPRINKLER INSTALLATION WITHIN THIS SPECIFIC AREA AS REQUIRED BY THE NEW STRUCTURAL, DUCTWORK, AIR DEVICE, AND LIGHTING LAYOUT. THIS INCLUDES, BUT IS NOT LIMITED TO REVISING, RAISING, AND/OR OFFSETTING EXISTING SPRINKLER PIPING AS REQUIRED BY NEW CEILING FEATURES AND/OR NEW MECHANICAL/ELECTRICAL/PLUMBING ITEMS ABOVE THE NEW CEILING, REMOVING AND REPLACING EXISTING PENDENT HEADS WITH NEW, AND THE COORDINATION OF SPRINKLER HEADS WITH NEW AS WELL AS EXISTING DUCTWORK, AIR DEVICES, LIGHTING, STRUCTURAL MEMBERS, AND CEILING FEATURES.
PROTECTION/COVERAGE TO BE PER NFPA PAMPHLET 13 ORDINARY HAZARD GROUP 1 REQUIREMENTS. SEE FIRE PROTECTION NOTES ON SHEET FP2.1.

EXISTING BUILDING SPRINKLER NOTE

REPLACE EXISTING DRY BARREL SPRINKLER HEADS WITH NEW WITHIN EXISTING WALK-IN COOLER. NEW HEADS TO MATCH EXISTING BY TYPE, KIND, AND FINISH

FIRST FLOOR FIRE PROTECTION PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

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TITLE
FIRST FLOOR FIRE PROTECTION PLAN

SHEET NO.
FP1.1

PRATER ENGINEERING ASSOCIATES
6130 Wilcox Road
Dublin, Ohio 43016
Phone: (614) 766-4896 Fax: (614) 766-2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
M. MCDANIEL	M. MCDANIEL	C. ANDERSON	24213

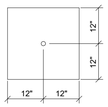
1/29/2025 3:44:20 PM

FIRE PROTECTION ABBREVIATIONS

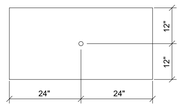
AB.	ABOVE	FLR.	FLOOR
ARCH.	ARCHITECT	F.D.	FLOOR DRAIN
BTM.	BOTTOM	FURN.	FURNISH
BLDG.	BUILDING	F.P.	FIRE PROTECTION
CLG.	CEILING	GA.	GAGE
CONC.	CONCRETE	GEN.	GENERAL
CONN.	CONNECT	MFR.	MANUFACTURER
CONTR.	CONTRACTOR	MECH.	MECHANICAL
C.W.	COLD WATER	PLBG.	PLUMBING
CONT.	CONTINUATION	REQD.	REQUIRED
DN.	DOWN	RM.	ROOM
ELEC.	ELECTRICAL	SHT.	SHEET
EXIST.	EXISTING	T.S.	TAMPER SWITCH
F.	FIRE	TYP.	TYPICAL

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
D	DRAIN LINE		SUB-ZONE LIMIT/BOUNDARY LINE
D.P.S.	DRY PIPE SYSTEM		TEE WITH NIPPLE & CAP
F	FIRE PROTECTION LINE		PLUGGED TEE
W	DOMESTIC WATER SERVICE LINE		FLANGED GATE VALVE
	PENDANT TYPE SPRINKLER HEAD		BALL VALVE
	UPRIGHT TYPE SPRINKLER HEAD		APPROVED TYPE DRAIN VALVE
	CONCEALED SPRINKLER HEAD		FLOOR DRAIN
	CAPPED LINE		CONNECT TO EXISTING
	PIPE FLANGES		PRESSURE GAUGE
	ZONE LIMIT/BOUNDARY LINE	F	FLOW SWITCH



24"x24" CEILING TILE



24"x48" CEILING TILE

SPRINKLER HEAD LOCATION NOTES:

1. ALL LOCATIONS INDICATED ARE TO BE MAINTAINED WITHIN PLUS OR MINUS 1/2", AND ALIGNED WITH ADJACENT HEADS FOR A UNIFORM, EVEN APPEARANCE OF COMPLETED INSTALLATION. POSITIONS INDICATED APPLY TO FULL SIZE SMOOTH SURFACE TILES, AS WELL AS FULL SIZE SUB-GRIDDED (SCORED OR GRAPHICALLY DIVIDED) SURFACE TILES. THE APPEARANCE OF THE FINISHED CEILING TILE FACE AS INSTALLED OVERRIDES THE ACTUAL PHYSICAL DIMENSIONS OF THE TILE FOR PLACEMENTS INDICATED HEREIN. VERIFY CEILING TILE TYPES FROM ARCHITECTURAL DOCUMENTATION.
2. RECESSED PENDANT SPRINKLER HEADS TO BE INSTALLED WITH DEFLECTORS AT SAME ELEVATION AS ADJACENT SPRINKLERS IN SAME AREA/ENCLOSURE, PLUS OR MINUS 1/4". RECESSED HEADS TO BE INSTALLED SO DEFLECTOR IS A MAXIMUM OF 1" BELOW THE ELEVATION OF THE CEILING PLANE. CONCEALED HEADS TO BE INSTALLED WITH COVERS FLUSH TO CEILING PLANE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. INSTALLATION OF ALL SPRINKLER HEADS TO BE COORDINATED WITH STRUCTURE AND WORK OF OTHER TRADES, VERIFIED IN ADVANCE BY THE FIRE PROTECTION CONTRACTOR.

SPRINKLER HEAD LOCATION DETAIL
NO SCALE

F.P. MATERIALS AND EQUIPMENT

1. FINAL DECISION ON THE FINISH, COLOR AND STYLE OF SPRINKLER HEADS TO BE DETERMINED BY THE ARCHITECT DURING THE SUBMITTAL PROCESS.
2. THE ARCHITECT RESERVES THE RIGHT TO RELOCATE OR ADD SPRINKLER HEADS TO THE SPRINKLER CONTRACTOR'S LAYOUT DURING THE SUBMITTAL PROCESS.

FIRE PROTECTION SPRINKLER HEADS

A. UPRIGHT HEADS: SIMILAR TO VIKING MODEL M WITH 1/2" STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.5 "K" FACTOR AND NATURAL BRONZE FINISH. SIDEWALL HEAD (IF REQUIRED) TO BE SIMILAR, WITH VERTICAL OR HORIZONTAL DEFLECTOR. HEADS TO BE LISTED "QUICK RESPONSE" TYPE. FOR USE IN STORAGE, MECHANICAL AND IN AREAS WITHOUT CONCEALING "FINISH" STRUCTURE WITH EXPOSED SUPPLY PIPING.

B. SEMI-RECESSED PENDENT HEADS: SIMILAR TO VIKING MODEL M WITH 1/2" STD. ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.5 "K" FACTOR & ADJUSTABLE TWO-PIECE ESCUTCHEON. ESCUTCHEON & HEAD TO BE FURNISHED WITH MANUFACTURER APPLIED WHITE FINISH. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. SIDEWALL HEADS (IF REQUIRED) TO BE SIMILAR, WITH HORIZONTAL DEFLECTOR. INLET, ADJUSTABLE DRY BARREL AND COMPRESSED CENTER STRUT ACTUATOR. PENDENT AND SIDEWALL HEADS FOR USE IN AREAS WITH CONCEALING "FINISH" STRUCTURE WITH CONCEALED SUPPLY PIPING.

NOTE:

A. FOR BIDDING PURPOSE THIS CONTRACTOR SHALL PROVIDE CONCEALED HEADS IN ALL DRYWALL CEILINGS AND/OR SPECIAL CONSTRUCTION CEILINGS. FOR ALL ACOUSTICAL TILE CEILINGS THIS CONTRACTOR SHALL PROVIDE RECESSED SPRINKLER HEADS. ALL FINISHES AND OR COLORS OF SPRINKLER HEADS SHALL BE DETERMINED BY THE ARCHITECT USING THE STANDARD AVAILABLE COLORS OR FINISHES AVAILABLE FROM THE MANUFACTURER.

FIRE PROTECTION SPRINKLER PIPING

A. REFER TO THE SPECIFICATIONS FOR MATERIALS AND METHODS OF INSTALLATION.

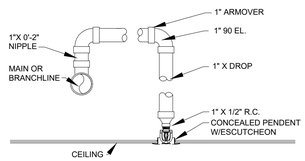
B. ALL FIRE PROTECTION PIPING TO BE IN ACCORDANCE NFPA PAMPHLET NO. 13 REQUIREMENTS FOR MATERIALS AND METHODS OF INSTALLATION.

C. HANGERS TO BE SIMILAR TO GRINNELL FIG. 69 WITH GALVANIZED ADJUSTABLE NUT AND CARBON STEEL BAND. INSTALL IN ACCORDANCE WITH NFPA PAMPHLET NO. 13 REQUIREMENTS.

D. TESTING OF PIPING TO MEET NFPA REQUIREMENTS.

FIRE PROTECTION NOTES

1. ALL FIRE PROTECTION CONTRACT WORK IS TO COMPLY WITH THE APPLICABLE NFPA STANDARDS REFERENCED IN THE BUILDING CODE (OBC) AS ADMINISTERED BY THE LOCAL REVIEW/INSPECTION/APPROVAL AUTHORITIES, THE INSURANCE UNDERWRITER'S GUIDELINES, THE LOCAL FIRE PREVENTION AUTHORITY (FIRE MARSHALL'S OFFICE/FIRE DEPT.), AND ANY OTHER AUTHORITIES HAVING JURISDICTION, AS CONFIRMED AND VERIFIED IN ADVANCE BY THE LICENSED F.P. CONTRACTOR.
2. THE BUILDING IS TO BE TOTALLY SPRINKLED PER NFPA PAMPHLET NO. 13, INCLUDING BOTH WET AND DRY-TYPE SYSTEMS, AND PROVIDED WITH MANUAL WET STANDPIPES AS REQUIRED FOR COMPLETE COVERAGE/PROTECTION PER NFPA PAMPHLET NO. 14.
3. THE BUILDING SPRINKLER SYSTEM IS TO BE ZONED BY FLOORS AND AT OTHER SPECIFIC AREAS AS INDICATED ON THE DRAWINGS.
   A. LIGHT HAZARD OCCUPANCY = .10 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1,500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 225 SQUARE FEET PER HEAD.
   B. ORDINARY HAZARD GROUP 1 OCCUPANCY = .15 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1,500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 130 SQUARE FEET PER HEAD.
   C. ADD A TOTAL ALLOWANCE OF 250 GPM FOR SIMULTANEOUS USE OF INSIDE (IF ANY) AND OUTSIDE HOSE STREAMS FOR ORDINARY HAZARD OCCUPANCY CALCULATIONS AT THE APPROPRIATE CONNECTION POINT(S).
   D. DESIGN AREAS LISTED HEREIN MAY BE REDUCED IN ACCORDANCE WITH NFPA PAMPHLET NO. 13 ALLOWANCE FOR USE OF QUICK RESPONSE SPRINKLER HEADS, PROVIDED THE INSTALLATION COMPLIES WITH ALL SPECIFIED CONDITIONS.
   E. FOR DRY PIPE SYSTEMS, THE AREA OF SPRINKLER OPERATION SHALL BE INCREASED BY 30 PERCENT WITHOUT REVISING THE SPECIFIED DENSITY.
4. THE SPRINKLER SYSTEMS SHALL BE SUPPLIED FROM THE BUILDING MANUAL WET STANDPIPES AS SHOWN ON THE DRAWINGS. THE STANDPIPES SHALL BE SIZED PER NFPA PAMPHLET NO. 14, AND THE APPLICABLE BUILDING CODE TO PROVIDE 500 GPM FOR THE FIRST STANDPIPE, AND 250 GPM PER EACH ADDITIONAL STANDPIPE. TO A MAXIMUM 1,250 GPM. TOTAL DEMAND FOR THE FIRE PROTECTION SYSTEM IS TO BE CALCULATED BASED ON EITHER THE STANDPIPE OR SPRINKLER (INCLUDING HOSE STREAMS) FLOW FLOW REQUIREMENT, WHICHEVER IS GREATER.
5. THE FIRE PROTECTION CONTRACTOR SHALL SIZE ALL FIRE PROTECITON SYSTEM PIPING, WITH THE EXCEPTION OF PIPING SIZES INDICATED ON THESE PLANS AT SPECIFIC LOCATIONS.
6. FIRE PROTECTION CONTR. SHALL PROVIDE ALL ADDITIONAL PIPING, EQUIP. AND ACCESSORIES WHETHER SHOWN ON DWG'S. OR NOT, WHICH IS REQ'D TO PROVIDE COMPLETE STANDPIPE, SPRINKLER & OTHER FIRE PROTECTION SYSTEMS FOR THE BUILDING.
7. ALL F.P. SPRINKLER HEADS SHALL BE INSTALLED IN A CONSISTANT, EVENLY SPACED MANNER, ALIGNED WITH ADJACENT HEADS IN EACH DIRECTION TO PRESENT A UNIFORM AND SYMMETRICAL APPEARANCE FROM WITHIN THE OCCUPIED SPACE. FINAL LAYOUT SHALL BE SUBJECT TO APPROVAL DURING REQUIRED PRELIMINARY REVIEW OF PLANS PRIOR TO FINAL SUBMISSION OF THESE PLANS TO CONSTRUCTION REVIEW/APPROVAL.
8. COORD. ALL DROPS FOR PENDANT SPRINKLER HEADS WITH CLG. GRIDS, STRUCTURE & WORK OF OTHER TRADES. VERIFY LOCATION OF ALL ITEMS/ELEMENTS PROVIDED BY OTHER TRADES FROM APPROPRIATE CONTRACT DOCUMENTATION INLCUDED WITH COMPLETE CONSTRUCTION DOCUMENTATOIN PACKAGE, AND COORDINATE WITH THE ASSOCIATED CONTRACTOR FOR PROPER INSTALLATION.
9. PROVIDE DRAIN VALVES AND AUXILLIARY DRAINS PER NFPA REQUIREMENTS, AND AT LOW AND/OR TRAPPED PIPING POINTS WHEN SUCH ARE UNAVOIDABLE, TO ALLOW COMPLETE DRAIN DOWN OF PIPING SYSTEM. PIPING SHALL BE INSTALLED TO DRAIN AT THE MAIN RISER(S) WHENEVER POSSIBLE.
10. UNLESS SPECIFICALLY INDICATED OTHERWISE, DRAINS ASSOCIATED WITH WORK/EQUIPMENT INCLUDED IN THE FIRE PROTECTION CONTRACT ARE TO BE EXTENDED FULL SIZE TO LOCATIONS SUBJECT TO APPROVAL DURING REVIEW OF REQUIRED LAYOUT PLANS. APPROPRIATE DRAIN DISCHARGE POINTS ARE AS FOLLOWS, LISTED IN ORDER OF PREFERENCE:
    A. BUILDING EXTERIOR, WITH CHROME FINISHED 45 DEGREE OUTLET & WALL FLANGE, AND SPLASHBLOCK AT GRADE/SURFACE IN RESTRICTED ACCESS AREAS (DISCHARGE NOT PERMITTED IN PEDESTRIAN OR PUBLIC ACCESS AREAS. INCLUDING ADJACENT SPACES/AREAS THAT COULD RECEIVE OVERSPRAY/OVERFLOW FROM SUCH DRAINS)
11. FIRE PROTECTION CONTR. TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQ'D. FOR COORD. AND APPROVED INSTALLATION.
12. PROVIDE INSPECTOR'S TEST CONNECTION ASSEMBLIES AS SHOWN ON DRAWINGS, AND ANY ADDITIONAL TEST ASSEMBLIES AS REQUIRED FY INSPECTION/APPROVAL AUTHORITIES. ASSEMBLIES TO COMPLY WITH THE REQUIREMENTS OF NFPA PAMPHLET NO. 13, AND THE FIRE PROTECTION AUTHORITY, INCLUDING MATERIALS AND CONFIGURATION. COORDINATE INSTALLATION WITH STRUCTURE AND WORK OF OTHER TRADES. CONCEAL ASSEMBLIES WHEN STRUCTURE IS PROVIDED TO DO SO, AND COORDINATE FOR APPROVED INSTALLATION, INCLUDING IDENTIFICATION ELEMENTS (SIGNAGE, TAG, ETC.) IN NORMALLY VISIBLE LOCATION.
13. FIRE PROTECTION CONTRACTOR TO PROVIDE SPRINKLER COVERAGE AT ALL SHAFTS AS REQUIRED.
14. PROVIDE PRESS. GAUGE WITH ISOLATION BALL VALVE AT TOP OF ALL STANDPIPE RISERS, AND AT EACH SPRINKLER SYSTEM ZONE CONTRO L VALVE ASSEMBLY.
15. FIRE PROTECTION CONTRACTOR TO PROVIDE ADDITIONAL SPRINKLER HEADS BELOW DUCTS OR EQUIPMENT IN EXCESS OF 4 FEET WIDE, OR WHERE MULTIPLE DUCTS AND/OR EQUIPMENT INSTALLATIONS OBSTRUCT AN AREA IN EXCESS OF 4 FEET WIDE IN MECHANICAL ROOMS OR OTHER AREAS WITH EXPOSED STRUCTURE.
16. FIRE PROTECTION PIPING IS NOT PERMITTED TO RUN ABOVE ANY ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELS (INCLUDING ACCESS/CLEARANCE SPACE 42" IN FRONT OF THESE ITEMS, AND MIN. 30" WIDE), UNDER ANY CIRCUMSTANCES.
    A. LOCATION OF NEW ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED FROM INDICATION BY THE PROJECT ELECTRICAL DOCUMENTATION, AND ACTUAL INSTALLATION CONFIRMED WITH THE ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
    B. LOCATION OF EXISTING ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED IN THE FIELD PRIOR TO START OF WORK.
17. ALL VALVES CAPABLE OF INTERRUPTING FIRE PROTECTION SYSTEM FLOWS SHALL BE PROVIDED WITH A TAMPER SWITCH.
18. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL FIRE PROTECTION RELATED PENETRATIONS OF FIRE, SMOKE, & ANY OTHER RATED FLOORS, WALLS, PARTITIONS & OTHER STRUCTURES. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.
19. WHERE FIRE DEPARTMENT HOSE CONNECTION VALVES ARE INDICATED ON PLANS, WHETHER EXPOSED OR IN CABINET/STRUCTURE, COORDINATE EXACT LOCATION AND ORIENTATION OF VALVE, OUTLET AND OPERATOR HANDLE WITH STRUCTURE AND WORK OF OTHER TRADES TO ALLOW PROPER ACCESS AND OPERATION, AND TO MINIMIZE INTRUSION TO EGRESS ELEMENTS. FINAL INSTALLATION TO BE CONFIRMED IN ADVANCE WITH THE CONSTRUCTION MANAGER. PLAN INDICATION OF FIRE DEPARTMENT VALVES IS SYMBOLIC ONLY FOR GENERAL LOCATION, AND IS NOT INTENDED TO SPECIFY ORIENTATION OF ITEMS. NOMINAL MOUNTING HEIGHT IS 48" FROM TOP OF FLOOR TO CENTERLINE OF VALVE OUTLET.
20. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR REVIEWING ARCHITECTURAL PROJECT DOCUMENTATION FOR ITEMS AFFECTING FIRE PROTECTION WORK, INCLUDING SPECIFIC DIRECTIONS AND ITEMS OF A GENERAL NATURE, WHICH MAY NOT BE REFERRED TO BY THE F.P. DOCUMENTATION. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, SPRINKLER REQUIREMENTS TO MAINTAIN RATED SEPARATION STRUCTURES (WALLS, WINDOWS, GLASS PARTITIONS/DOORS, ETC.), OR AT STRUCTURAL FEATURES SUCH AS DRAFSTOPS, SOFFITS, SKYLIGHTS, PARTIAL HEIGHT PARTITIONS/WALLS, & OTHER ELEMENTS. THE ARCH. DOCUMENTATION MAY ALSO INCLUDE LOCATION/DIMENSION INFORMATION FOR SPECIFIC ITEMS SUCH AS STANDPIPES IN STAIR ENCLOSURES, OR F.P. EQUIPMENT CABINETS IN/AT WALLS OR OTHER STRUCTURES. WHERE THERE IS A DISCREPANCY IN LOCATIONS INDICATED BETWEEN THE TWO SETS OF DOCUMENTATION, THE LOCATION INDICATED BY THE ARCHITECTURAL SHALL TAKE PRECEDENT.
21. UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE FIRE PROTECTION CONTRACT NOT SPECIFICALLY INTENDED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE INSTALLED WITHIN THE CONCEALING STRUCTURE.
22. THE FIRE PROTECTION CONTRACTOR SHALL CONFIRM AND COMPLY WITH SPECIFIC REQUIREMENTS FOR SPRINKLER SYSTEM INSTALLATION AT ALL ELEVATOR SHAFTS AND MACHINE ROOMS PER THE REVIEW/INSPECTION/APPROVAL AUTHORITIES. THIS MAY INCLUDE PROVISION OF ISOLATION VALVES, TAMPER SWITCHES, FLOW SWITCHES, ETC.
23. UNLESS INDICATED OTHERWISE, BUILDING FIRE PROTECTION WATER SERVICE TIE-IN IS PROVIDED AT INTERIOR FACE OF STRUCTURE FOR CONNECTION TO AND CONTINUATION BY THIS CONTRACTOR.
24. UNLESS INDICATED OTHERWISE, ALL PENDANT SPRINKLERS ATTACHED TO DRY PIPE SUPPLY SYSTEMS SHALL BE LISTED DRY PIPE BARRELL TYPE, WITH LENGTH OF BARRELL AS REQUIRED BY INSTALLATION CONDITIONS TO ALLOW COMPLETE DRAINAGE AND AVOID TRAPPING WATER IN ANY PORTION OF THE DRY PIPE SYSTEM.



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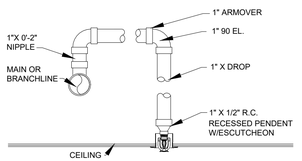

ARMOVER DETAIL
NOT TO SCALE

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ISSUE

NO.	DATE	DESCRIPTION
	12/16/2024	CD REVIEW
	01/29/2025	BID & PERMIT

DATE	01/29/2025
JOB NO.	4249.00
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TITLE
FIRE PROTECTION NOTES AND DETAILS

SHEET NO.
FP2.1

PRATER ENGINEERING ASSOCIATES
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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
M. MCDANIEL	M. MCDANIEL	C. ANDERSON	24213

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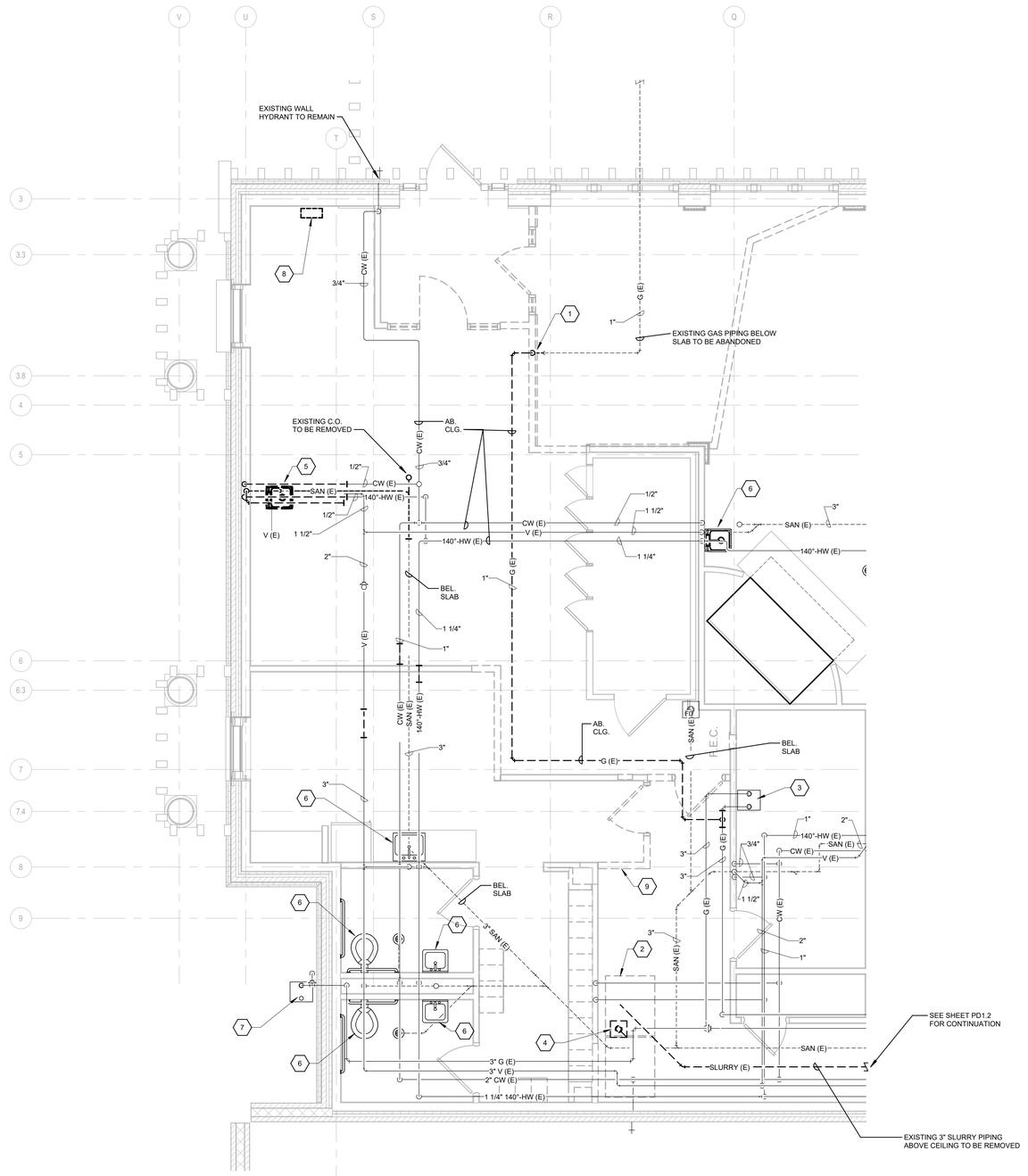
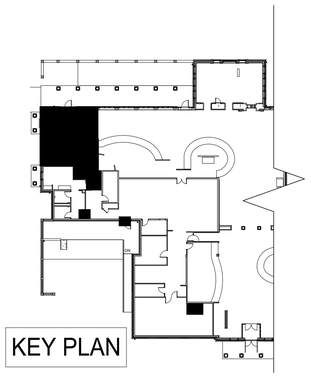
CODED NOTES

1. EXISTING GAS PIPING TO BE REMOVED FROM WALL. EXISTING GAS PIPING BELOW SLAB AT THIS POINT TO BE CAPPED AND ABANDONED IN PLACE. EXISTING GAS PIPING IN ABOVE CEILING TO BE REMOVED BACK TO POINT INDICATED.
2. EXISTING FOOD WASTE ELIMINATION SYSTEM TO BE REMOVED. EXISTING ASSOCIATED SLURRY PIPING ABOVE CEILING TO BE REMOVED IN ITS ENTIRETY. EXISTING ASSOCIATED CW AND HW PIPING TO BE REMOVED BACK ABOVE CEILING TO WITHIN 12" OF NEAREST ACTIVE BRANCH/MAIN AND CAPPED.
3. EXISTING 5000 CFH GAS METER TO REMAIN.
4. EXISTING FLOOR SINK TO BE REMOVED. EXISTING ASSOCIATED SAN PIPING TO BE REMOVED BACK BELOW SLAB AND CAPPED.
5. EXISTING SINK TO BE REMOVED AND TURNED OVER TO THE UNIVERSITY. COORDINATE STORAGE LOCATION WITH MIAMI PROJECT MANAGER. EXISTING ASSOCIATED CW, HW, AND VENT PIPING TO BE REMOVED BACK ABOVE CEILING TO POINT INDICATED FOR RECONNECTION UNDER NEW WORK. EXISTING ASSOCIATED SAN PIPING TO BE REMOVED BACK BELOW SLAB TO POINT INDICATED FOR CONNECTION TO NEW WORK.
6. EXISTING FIXTURE AND ASSOCIATED PIPING TO REMAIN.
7. EXISTING BUILDING GAS METER TO REMAIN.
8. EXISTING FILTER WITHIN CASEWORK. ASSOCIATED EQUIPMENT, AND ALL APPURTENANCES TO BE REMOVED. EXISTING ASSOCIATED CW SUPPLY PIPING TO BE REMOVED BACK ABOVE CEILING TO WITHIN 12" OF NEAREST ACTIVE BRANCH/MAIN AND CAPPED.
9. EXISTING CW AND 140°-HW WITHIN WALL TO BE REMOVED BACK ABOVE CELING WITHIN 12" OF NEAREST ACTIVE BRANCH/MAIN AND CAPPED.



FIRST FLOOR PLUMBING DEMO PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

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TITLE
FIRST FLOOR PLUMBING DEMO PLAN

SHEET NO.
PD1.1

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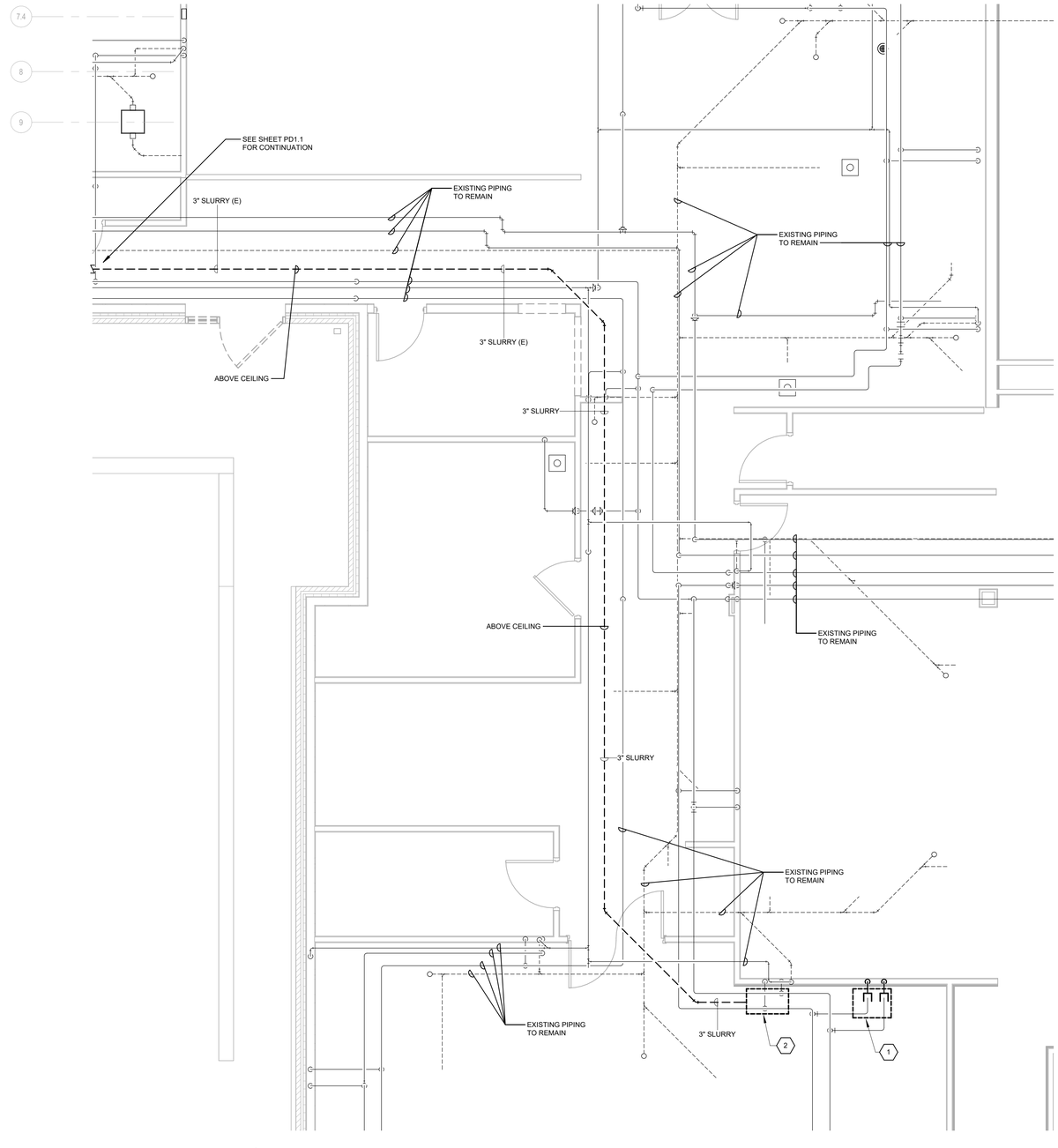
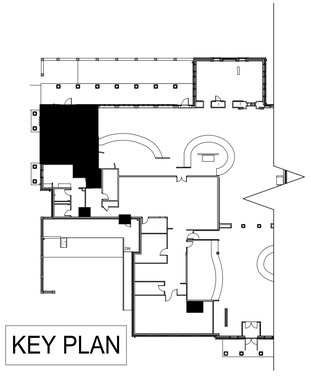


FIRST FLOOR PLUMBING DEMO PLAN - AREA B

SCALE: 1/4" = 1'-0"

CODED NOTES

1. EXISTING FOOD WASTE PULPER SYSTEM TO BE REMOVED IN ITS ENTIRETY. EXISTING ASSOCIATED 3/4" COLD AND 3/4" HOT WATER SUPPLY PIPING TO BE REMOVED BACK ABOVE CEILING AND CAPPED WITHIN 12" OF NEAREST ACTIVE BRANCH/MAIN.
2. EXISTING SLURRY PUMP TO BE REMOVED. EXISTING ASSOCIATED SLURRY PIPING ABOVE CEILING TO BE REMOVED IN ITS ENTIRETY.



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CHECKED	-

TITLE
FIRST FLOOR PLUMBING DEMO PLAN

SHEET NO.
PD1.2

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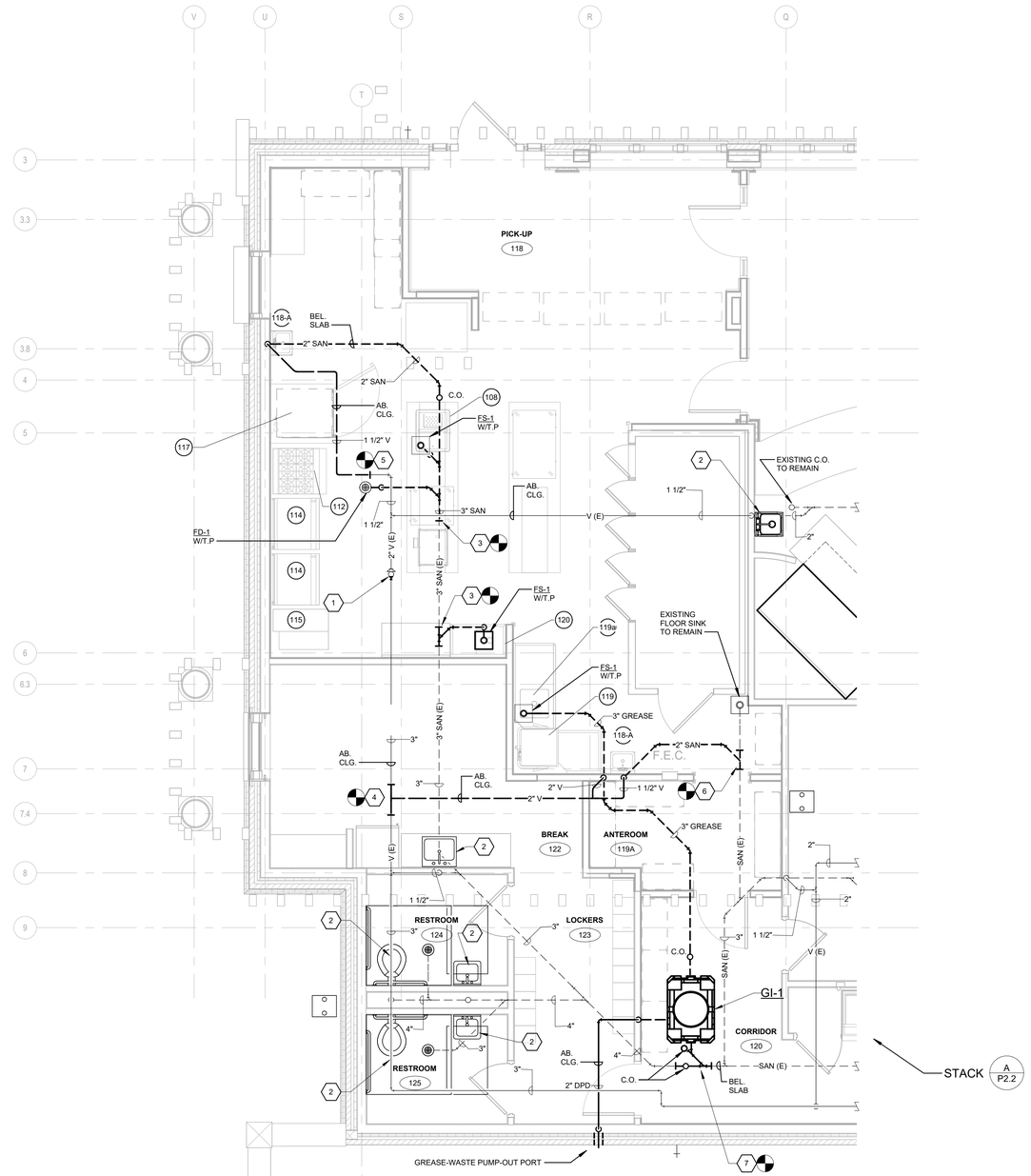


FIRST FLOOR PLUMBING WASTE AND VENT PIPING PLAN

SCALE: 1/4" = 1'-0"

FIELD VERIFY CONDITIONS

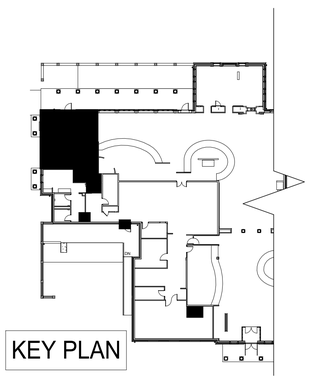
1. PRIOR TO THE START OF ANY WORK, THIS CONTRACTOR SHALL PERFORM A DETAILED CAMERA INVESTIGATION OF THE EXISTING, BELOW SLAB, SANITARY SYSTEM WITHIN THE SCOPE OF WORK. THE INVESTIGATION SHALL VERIFY EXACT ROUTING, CONDITION, AND SIZE OF THE EXISTING, BELOW SLAB, SANITARY DRAIN PIPING. A REPORT HIGHLIGHTING ANY FINDINGS THAT CONTRADICT THE INFORMATION SHOWN ON PLANS SHALL BE SHARED WITH THE PROJECT TEAM FOR REVIEW.
2. DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
4. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
5. REFER TO ARCHITECTURAL DOCUMENTATION FOR ADDITIONAL SCOPE/INFORMATION REGARDING WORK, INCLUDING IDENTIFICATION OF AREAS AND ITEMS INVOLVED, AS WELL AS INFORMATION OF BOTH A GENERAL AND SPECIFIC NATURE.
6. PRIOR TO SUBMITTING BID, THIS CONTRACTOR SHALL EXAMINE THE PROJECT CONTRACT DOCUMENTS TO DEVELOP A COMPLETE UNDERSTANDING OF THE SCOPE OF WORK. FAILURE TO REVIEW ALL CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM ALL WORK REQUIRED. THE CONTRACTOR SHALL, UPON REVIEW OF THE CONTRACT DOCUMENTS, ADVISE THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES WHICH WILL AFFECT THE EXECUTION OF HIS WORK.

CODED NOTES ⬡

1. EXISTING 4" VTR
2. EXISTING FIXTURE AND ASSOCIATED PIPING TO REMAIN.
3. CONNECT NEW 3" SAN TO EXISTING 3" SAN BELOW SLAB AT THIS APPROXIMATE LOCATION. FIELD VERIFY AND CONFIRM EXISTING SAN INVERT ELEVATION, SIZE, AND EXACT CONNECTION POINT TO NEW WORK IN ADVANCE.
4. CONNECT NEW 2" VENT TO EXISTING 3" VENT ABOVE CEILING. FIELD VERIFY AND CONFIRM CONNECTION POINT TO EXISTING IN ADVANCE.
5. CONNECT NEW 1-1/2" VENT TO EXISTING 1-1/2" VENT ABOVE CEILING. FIELD VERIFY AND CONFIRM CONNECTION POINT TO EXISTING IN ADVANCE.
6. CONNECT NEW 2" SAN TO EXISTING 3" SAN BELOW SLAB AT THIS APPROXIMATE LOCATION. FIELD VERIFY AND CONFIRM EXISTING SAN INVERT ELEVATION, SIZE, AND EXACT CONNECTION POINT TO NEW WORK IN ADVANCE.
7. CONNECT NEW 3" SAN TO EXISTING 4" SAN BELOW SLAB AT THIS APPROXIMATE LOCATION. FIELD VERIFY AND CONFIRM EXISTING SAN INVERT ELEVATION, SIZE, AND EXACT CONNECTION POINT TO NEW WORK IN ADVANCE.

GENERAL NOTES

1. ALL GREASE WASTE PIPING TO BE STANDARD WEIGHT CAST IRON HUB AND SPIGOT TYPE PIPING INSTALLED PER CISPI STANDARDS.
2. REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR DIMENSIONS AND EXACT LOCATIONS OF FOOD SERVICE EQUIPMENT/FIXTURES AND UTILITY ROUGH-INS WITHIN THE KITCHEN AREA. COORDINATE ALL FOOD SERVICE PLUMBING REQUIREMENTS WITH THE KITCHEN EQUIPMENT CONTRACTOR AND THE CONSTRUCTION MANAGER.
3. COORDINATE TRENCHING AND PATCH/REPAIR OF FLOOR WITH GENERAL TRADES CONTRACTOR. ALL TRENCHING SHALL BE INFILLED TO MATCH EXISTING FLOOR SLAB FOR NEW FLOOR FINISH.



KEY PLAN

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ISSUE

NO.	DATE	DESCRIPTION
	12/16/2024	CD REVIEW
	01/29/2025	BID & PERMIT

DATE	01/29/2025
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TITLE
FIRST FLOOR PLUMBING WASTE AND VENT PLAN

SHEET NO.
P1.1

PRATER ENGINEERING ASSOCIATES
6130 Wilcox Road
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M. MCDANIEL	M. MCDANIEL	C. ANDERSON	24213

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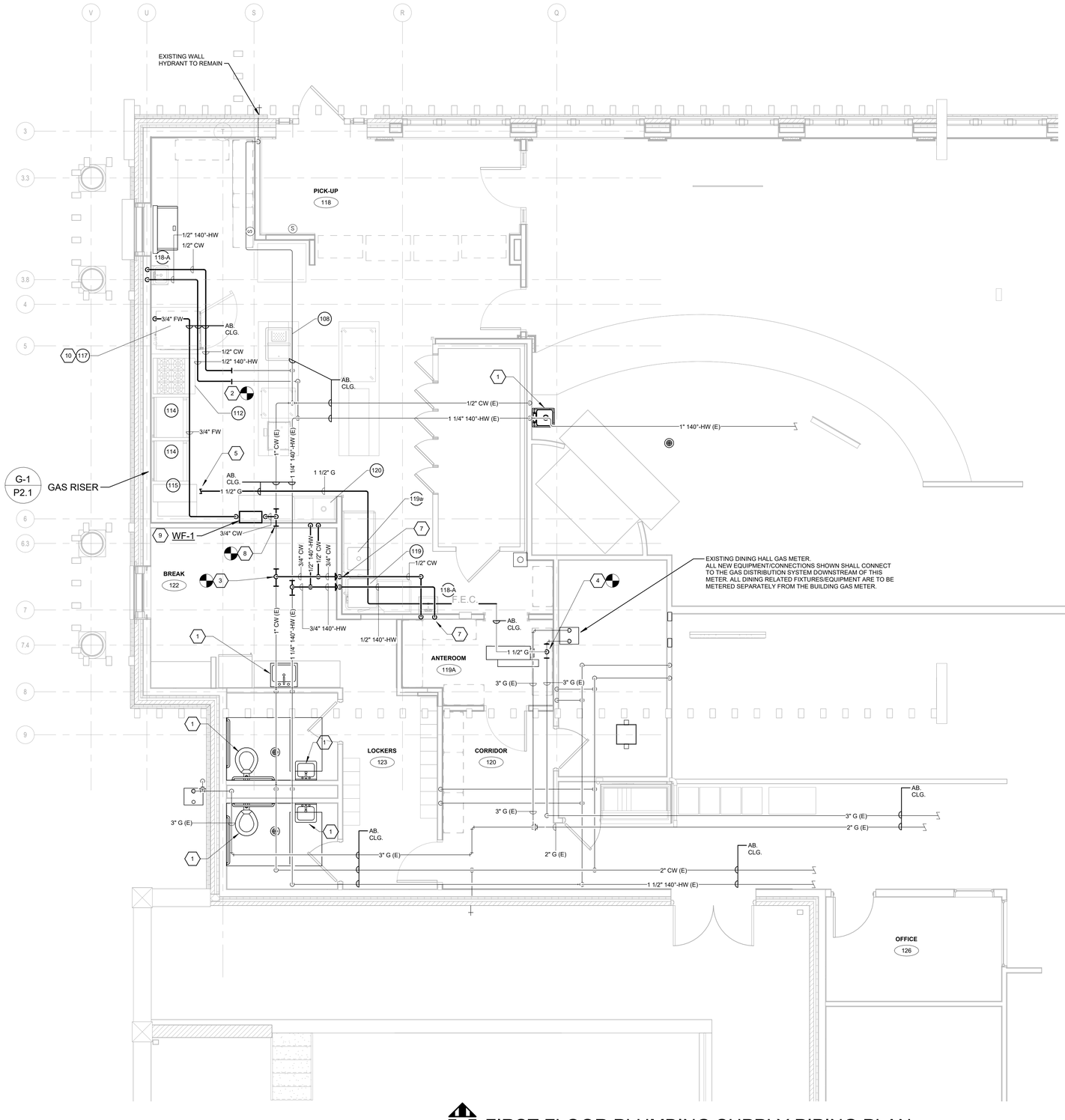
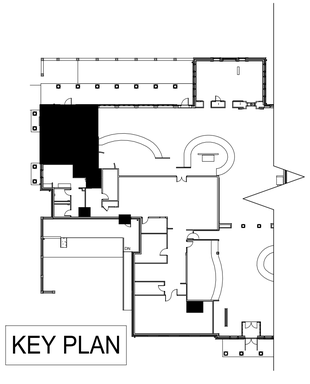


CODED NOTES

1. EXISTING FIXTURE AND ASSOCIATED PIPING TO REMAIN.
2. CONNECT NEW 1/2" CW AND 1/2" 140°-HW TO EXISTING 1/2" CW AND 1/2" 140°-HW ABOVE CEILING. FIELD VERIFY AND CONFIRM CONNECTION POINTS TO EXISTING IN ADVANCE.
3. CONNECT NEW 3/4" CW AND 3/4" 140°-HW TO EXISTING 1" CW AND 1-1/4" 140°-HW ABOVE CEILING. FIELD VERIFY AND CONFIRM CONNECTION POINTS TO EXISTING IN ADVANCE.
4. CONNECT NEW 1-1/2" G TO EXISTING 3" G ABOVE CEILING. FIELD VERIFY AND CONFIRM CONNECTION POINTS TO EXISTING IN ADVANCE.
5. EXTEND 1" G TO GAS-FIRED KITCHEN EQUIPMENT. SEE GAS RISER ON SHEET P2.1 FOR DETAILS.
6. CONNECT NEW 2" G TO EXISTING 2" G ABOVE CEILING AND EXTEND UP THRU ROOF TO NEW ROOF TOP UNIT. VERIFY EXISTING GAS LINE IS ASSOCIATED WITH THE METERED DINING HALL GAS DISTRIBUTION SYSTEM. COORDINATE GAS LINE ROUTING WITH HVAC CONTRACTOR AND RTU INLET CONNECTION POINT. SEE RTU GAS CONNECTION DIAGRAM ON SHEET P2.1 FOR DETAILS. FIELD VERIFY AND CONFIRM CONNECTION POINT TO EXISTING IN ADVANCE.
7. 1/2" CW AND 1/2" 140°-HW DOWN IN WALL TO FIXTURE.
8. CONNECT NEW 3/4" CW TO EXISTING 1" CW ABOVE CEILING. FIELD VERIFY AND CONFIRM CONNECTION POINTS TO EXISTING IN ADVANCE.
9. SEE FILTER INSTALLATION DIAGRAM ON SHEET P2.2
10. TWO (2) UNITS, STACKED AT THIS LOCATION. COORDINATE ROUGH-IN ELEVATIONS IN ADVANCE.



KEY PLAN

FIRST FLOOR PLUMBING SUPPLY PIPING PLAN

SCALE: 1/4" = 1'-0"

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TITLE
FIRST FLOOR PLUMBING SUPPLY PIPING PLAN

SHEET NO.
P1.2

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KITCHEN EQUIPMENT PLUMBING SCHEDULE

SYMBOL	DESCRIPTION	ACTION	PIPE SIZE CW	HW	W	V	G	REMARKS
108	HOT/COLD PAN, DROP-IN	1	---	---	3/4"	---	---	EXTEND DRAIN DISCHARGE LINE INDIRECT "SAFE WASTE" TO SAN SYSTEM VIA FLOOR DRAIN/SINK.
112	32" OPEN-TOP BURNER RANGE	2	---	---	---	---	1"	210,000 BTUH GAS LOAD. PROVIDE WITH ELBOW, RESTRAINING CABLE, AND SHUT-OFF VALVE.
114	GRIDDLE	2	---	---	---	---	3/4"	90,000 BTUH GAS LOAD. PROVIDE WITH ELBOW, RESTRAINING CABLE, AND SHUT-OFF VALVE.
115	FRYER	2	---	---	---	---	3/4"	122,000 BTUH GAS LOAD. PROVIDE WITH ELBOW, RESTRAINING CABLE, AND SHUT-OFF VALVE.
117	COMBI-OVEN	1 2	---	---	---	---	3/4"	106,500 BTUH GAS LOAD. PROVIDE WITH ELBOW, RESTRAINING CABLE, AND SHUT-OFF VALVE. EXTEND 3/4" FW TO INLET CONNECTION POINT.
118-A	HAND SINK, WALL MOUNT	1	1/2"	1/2"	1-1/2"	1-1/2"	---	PROVIDE LEONARD MODEL NO. 170 THERMOSTATIC MIXING VALVE WITH INTEGRAL INLET CHECK STOPS, LOCKING TEMPERATURE ADJUSTMENT, AND ASSE 1070 LISTING. ADJUST VALVE AS REQUIRED TO PROVIDE A MAXIMUM OF 110°F TEMPERED WATER TO HAND SINK. WASTE TO BE DIRECT CONNECTED TO SAN SYSTEM.
119	DISHWASHER	1	1/2"	3/4"	1-1/2"	---	---	EXTEND 140°HW TO INLET CONNECTION POINT, CW TO INLET CONNECTION OF DISHWASHER, AND CW CONNECTION TO DRAIN WATER TEMPERING KIT. PROVIDE SHOCK ABSORBER ON CW SUPPLY PIPING. PROVIDE ASSE 1013 LISTED/APPROVED B.F.P. ON CW SUPPLY TO DRAIN WATER TEMPERING KIT. DRAIN WATER TEMPERING KIT INTEGRAL TO DISHWASHER OR PROVIDED BY OTHERS. EXTEND 1-1/2" DRAIN LINE INDIRECT "SAFE WASTE" TO GREASE-SAN SYSTEM VIA FLOOR SINK.
119A	DISH TABLE	1	---	---	1-1/2"	---	---	EXTEND DRAIN DISCHARGE LINE INDIRECT "SAFE WASTE" TO GREASE-SAN SYSTEM VIA FLOOR DRAIN/SINK.
120	PREP SINK	1	1/2"	1/2"	1-1/2"	---	---	EXTEND DRAIN DISCHARGE LINE INDIRECT "SAFE WASTE" TO SAN SYSTEM VIA FLOOR DRAIN/SINK.

1 EQUIPMENT FURNISHED & INSTALLED BY "KITCHEN EQUIPMENT SUPPLIERS". THE P.C. SHALL PROVIDE THE REQUIRED PLUMBING, INCLUDING TRAPS, SUPPLIES, STOPS, VALVES, SHOCK ABSORBERS, BACKFLOW PREVENTERS (B.F.P.), PRESSURE REDUCING VALVES (P.R.V), TUBING COIL, AND INDIRECT DRAIN PIPING. UNLESS NOTED OTHERWISE, ALL BACK-FLOW PREVENTERS (B.F.P.'S) TO BE SIMILAR TO WATTS SERIES LF7 AND ASSE 1024 LISTED/APPROVED. ALL TUBING COIL TO BE BRAIDED STAINLESS STEEL. INSTALLATION OF ALL ITEMS TO BE COORDINATED WITH THE KITCHEN EQUIPMENT CONTRACTOR IN ADVANCE OF WORK.

2 EQUIPMENT FURNISHED & INSTALLED BY "KITCHEN EQUIPMENT SUPPLIERS". THE P.C. SHALL PROVIDE THE REQUIRED PLUMBING, GAS COCK, FULL-SIZE DIRT LEG, UNION AND FLEXIBLE CONNECTOR. FLEXIBLE GAS CONNECTOR TO BE PER NFPA 54 AND LOCAL GAS COMPANY REQUIREMENTS.

DRAIN & CLEANOUT SCHEDULE

DES.	LOCATION	DESCRIPTION
FD-1	FINISHED AREA FLOOR DRAIN	ZURN Z415BZ CAST IRON FLOOR DRAIN WITH DOUBLE DRAINAGE FLANGE AND WEEPHOLES, BOTTOM CAULK OUTLET WITH TYPE BZ SIZE 6" DIAMETER POLISHED NICKEL BRONZE LEVELING STRAINER. FURNISH WITH CLAMPING COLLAR EXCEPT FLOOR DRAINS IN ON-GRADE LOCATIONS.
FS-1	FLOOR SINK	SANITARY FLOOR SINKS, ZURN MODEL Z-1900, 12"X12" NICKEL BRONZE TOP, CAST IRON BODY, WHITE ACID RESISTANT INTERIOR FINISH, 4" BOTTOM CAULK OUTLET AND ANTI-SPLASH INTERIOR DOME STRAINER. PROVIDE WITH NICKEL BRONZE FUNNEL WHERE NOTED ON THE DRAWINGS.
C.O.	WALLS OF FINISHED AREA	USE CLEANOUT TEE AND PROVIDE CLEANOUT AND ACCESS COVER SIMILAR TO ZURN ZURN Z-1446 WITH ROUND POLISHED STAINLESS STEEL ACCESS COVER AND ABS PLASTIC THREADED PLUG. SIZE TO SUIT CLEANOUT.
C.O.	FLOORS OF FINISHED AREA	PROVIDE FRAME AND ACCESS COVER SIMILAR TO ZURN ZN-1400 WITH GAS TIGHT BRONZE PLUG, ROUND SCREWDOWN ACCESS COVER BOX WITH POLISHED SCORIATED TOP AND ANCHOR LUGS.
C.O.	OUTSIDE	ZURN Z-1400-HD CAST IRON ADJUSTABLE CLEANOUT, COATED CAST IRON INTERNAL PLUG WITH LEAD SEAL AND HEAVY-DUTY LOOSE-SET SCORIATED ROUND CAST IRON TRACTOR COVER SIZE TO SUIT CLEANOUT.
C.O.	ALL OTHER CLEANOUTS	ZURN ZB-1470 FLUSH WITH FLOOR OR WALL AND HAVE COUNTER-SUNK BRASS HEADS.

PLUMBING NOTES

1. REFER TO ARCHITECTURAL DOCUMENTATION FOR ADDITIONAL SCOPE/INFORMATION REGARDING DEMOLITION/REMODELING WORK, INCLUDING IDENTIFICATION OF AREAS AND ITEMS INVOLVED, AS WELL AS INFORMATION OF BOTH A GENERAL AND SPECIFIC NATURE.
2. UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE PLUMBING CONTRACT NOT SPECIFICALLY INTENDED OR IDENTIFIED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE INSTALLED WITHIN THE CONCEALING STRUCTURE.
3. ALL PIPING SHOWN IS ABOVE CEILING IN AREAS WITH DROPPED CEILINGS, OR AT THE BOTTOM OF OVERHEAD SUPPORT STRUCTURE IN EXPOSED STRUCTURE AREAS, UNLESS INDICATED OTHERWISE.
4. THE PLUMBING CONTRACTOR IS TO SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE PROJECT IN ADVANCE OF WORK (INCLUDING FABRICATION).
5. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE, SMOKE AND OTHER RATED STRUCTURES, INCLUDING FLOORS, WALLS, PARTITIONS, ETC. REFER TO ARCHITECTURAL DOCUMENTATION FOR LOCATIONS OF ALL STRUCTURES, AND SPECIFIC INFORMATION AND REQUIREMENTS PERTAINING TO SAME.
6. LAYOUT AND INSTALLATION OF PLUMBING CONTRACT PIPING, EQUIPMENT, AND ITEMS INDICATED ON PLAN IS SCHEMATIC IN NATURE. EXACT LOCATION, ROUTING AND INSTALLATION TO BE COORDINATED WITH BUILDING STRUCTURE AND ALL OTHER WORK PROVIDED UNDER SEPARATE CONTRACT.
7. COORDINATE EXACT LOCATION AND INSTALLATION OF ALL PLUMBING UTILITIES REQUIRED AND PROVIDED FOR WORK UNDER SEPARATE CONTRACT WITH THE APPROPRIATE CONTRACTOR(S) IN ADVANCE OF WORK. THIS INCLUDES SUPPLY AND DRAIN ELEMENTS FOR DIRECT (PIPED) AND/ OR INDIRECT (FLOOR/HUB DRAIN, AIR GAP, ETC.) CONNECTION/SERVICE.
8. RUN ALL WATER AND GAS LINES LEVEL.
9. ROUGH IN ALL PIPING (SUPPLY, RETURN, WASTE, DRAIN, ETC.) FOR FIXTURES/EQUIPMENT INSTALLATION THRU OR ON FACE OF WALL (AS APPLICABLE), AND TERMINATE WITH SHORT PIPE NIPPLE AND CAP. ROUGH INS AT EXTERIOR WALLS (IF ANY) TO BE ON "WARM" SIDE OF INSULATION ASSEMBLY, AS REQUIRED FOR NON-FREEZE INSTALLATION.
10. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF OHIO BUILDING CODE, INCLUDING APPLICABLE PLUMBING, MECHANICAL AND ACCESSIBILITY PROVISIONS. PROVISIONS.
11. PROVIDE CLEANOUTS AS FOLLOWS:
    A. AT THE BASE OF ALL SANITARY STACKS.
    B. IN ALL HORIZONTAL SANITARY PIPING AT INTERVALS NOT TO EXCEED 100 L.F. IN LENGTH.
    C. AT EACH CHANGE OF DIRECTION BY SANITARY PIPING BELOW GRADE GREATER THAN 45 DEGREES OR AT THE LOWEST POINT OF THE HORIZONTAL DRAINAGE SYSTEM, UNLESS ANOTHER CLEANOUT IS WITHIN 40 FT. DEVELOPED LENGTH.
    D. AT ALL SANITARY PIPING BUILDING EXIT POINTS, AND/OR BUILDING SEWER CONNECTIONS FOR SITE UTILITY TIE-IN.
12. UNLESS INDICATED OTHERWISE, ALL FIXTURES AND EQUIPMENT PROVIDED WITH PLUMBING SUPPLY PIPING TO BE FURNISHED WITH APPROVED/LISTED STOPS IN ACCESSIBLE LOCATIONS.
13. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF CASEWORK, EQUIPMENT AND OTHER ITEMS PROVIDED UNDER SEPARATE CONTRACT, INCLUDING EXACT LOCATIONS AND UTILITY CONNECTION REQUIREMENTS. COORDINATE PLUMBING UTILITY WORK AS REQUIRED IN ADVANCE, INCLUDING PLACEMENT OF FITTINGS, ACCESSORIES, APPURTENANCES, DRAINS, ETC.
14. VERIFY THE EXACT LOCATION AND INSTALLATION REQUIREMENTS FOR ALL DRAINS WITH THE ARCHITECTURAL AND STRUCTURAL DOCUMENTATION FOR PROPER PLACEMENT IN RESPECT TO SLOPES AND STRUCTURE AT EACH DRAIN. COORDINATE INSTALLTION WITH THE APPROPRIATE CONTRACTOR. FINAL INSTALLATION AND LOCATION SUBJECT TO APPROVAL.
15. PLUMBING PIPING IS NOT PERMITTED TO RUN ABOVE ANY ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELS (INCLUDING ACCESS/CLEARANCE SPACE 42" IN FRONT OF THESE THESE ITEMS, AND MIN. 30" WIDE), UNDER ANY CIRCUMSTANCES.
    A. LOCATION OF NEW ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED FROM INDICATION BY THE PROJECT ELECTRICAL DOCUMENTATION, AND ACTUAL INSTALLATION CONFIRMED WITH THE ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.

PLUMBING EQUIPMENT

TRAP PRIMER VALVE ASSEMBLY (ALL DRAINS NOT WITHIN RESTROOMS)

SIMILAR TO SIOUX CHIEF PRIME PERFECT SERIES 695 WITH A MAXIMUM WORKING PRESSURE OF 250 PSIG, PRESSURE ACTIVATED AT A MINIMUM OF 10 PSIG DIFFERENTIAL, 1/2" FEMALE INLET, 1/2" MALE OUTLET, INTEGRAL SEDIMENT SCREEN, DIAPHRAGM ADJUSTMENT NUT, VACUUM BREAKER, FIELD ADJUSTABLE WATER DISCHARGE RATE, CERTIFIED BY THE AMERICAN SOCIETY OF SANITARY ENGINEERING TO ASSE 1018-2001 SPECIFICATIONS, AND LISTED BY THE UPC/IAPMO. VALVE TO BE FURNISHED WITH DISTRIBUTION MANIFOLD WHERE REQUIRED BY TRAP PRIMER SUPPLY TO MULTIPLE FLOOR DRAINS. MANIFOLD TO SERVE A MAXIMUM OF (8) FLOOR DRAINS WITH INDIVIDUAL/DEDICATED TRAP PRIMER SUPPLY LINE TO EACH FLOOR DRAIN INDICATED. INSTALLATION TO BE PER MANUFACTURER'S RECOMMENDATIONS.

GI-1;GREASE INTERCEPTOR

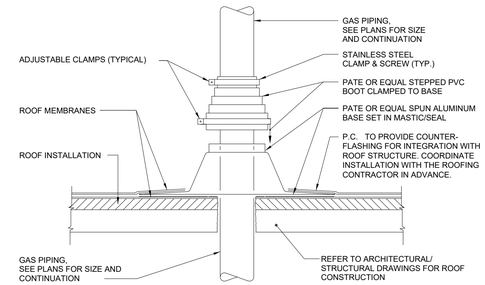
SIMILAR TO SCHIER GB-75 POLYETHYLENE GREASE INTERCEPTOR WITH CAST IRON BOLTED AND GASKETED ACCESS COVER AND FRAME. PROVIDE WITH PP3 PUMP-OUT PORT KIT

PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CW	DOMESTIC COLD WATER LINE		PIPE BRANCH BOTTOM CONNECTION
140°-HW	140°F DOMESTIC HOT WATER LINE		PIPE FLANGES
140°-HWR	140°F DOMESTIC HOT WATER RETURN LINE		PIPE UNION
G	NATURAL GAS LINE		BALL VALVE
DPD	DRAIN PUMP DISCHARGE		DRAIN VALVE WITH HOSE END
GREASE	GREASE-WASTE LINE		GATE VALVE (FLANGED BODY)
SAN	SANITARY LINE		CHECK VALVE
TP	TRAP PRIMER LINE		COMBINATION BALANCE/STOP VALVE
TW	TEMPERED WATER (DOMESTIC)		FLOOR OR AREA DRAIN
V	VENT LINE		THERMOMETER
(E)	EXISTING PIPING		THRU FLOOR AS SHOWN
	P-TRAP (PLAN VIEW)		JANITOR OR SHOWER FAUCET/HEAD LOCATION
	CAPPED LINE		
	HOSE BIBB		
	PIPE BRANCH TOP CONNECTION		

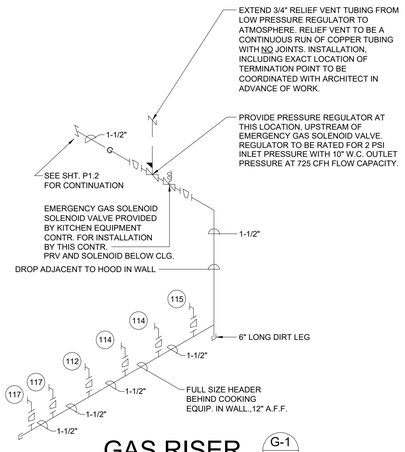
PLUMBING ABBREVIATIONS

AB.	ABOVE	INV. ELEV.	INVERT ELEVATION
A.F.F.	ABOVE FINISHED FLOOR	LAV.	LAVATORY
APPROX.	APPROXIMATELY	MECH.	MECHANICAL
BLDG.	BUILDING	PLBG.	PLUMBING
CLG.	CEILING	PRESS.	PRESSURE
C.O.	CLEAN OUT	RM.	ROOM
CONN.	CONNECT	SH.	SHOWER
CONTR.	CONTRACTOR	THERM.	THERMOMETER
ELEC.	ELECTRICAL	TYP.	TYPICAL
FLR.	FLOOR	V.T.R.	VENT THRU ROOF
F.D.	FLOOR DRAIN	W/	WITH
H.B.	HOSE BIBB	WC	WATER CLOSET

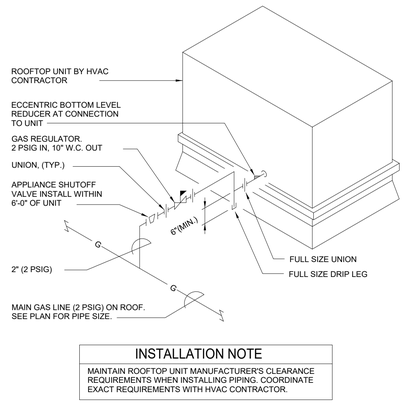


GAS PIPE THRU ROOF DETAIL

NOT TO SCALE



GAS RISER G-1 / P1.2



R.T.U. GAS CONNECTION DIAGRAM

NOT TO SCALE

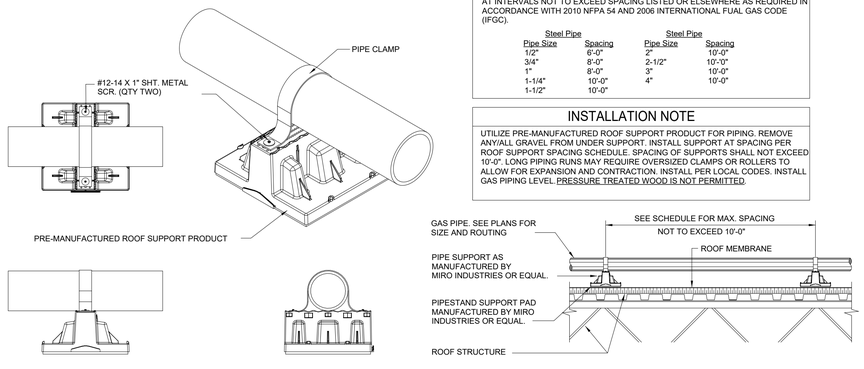
INSTALLATION NOTE
MAINTAIN ROOFTOP UNIT MANUFACTURER'S CLEARANCE REQUIREMENTS WHEN INSTALLING PIPING. COORDINATE EXACT REQUIREMENTS WITH HVAC CONTRACTOR.

GAS PIPING SUPPORT SPACING SCHEDULE

PIPING TO BE SUPPORTED ACCORDING TO THE FOLLOWING SCHEDULE. SUPPORT AT INTERVALS NOT TO EXCEED SPACING LISTED OR ELSEWHERE AS REQUIRED IN ACCORDANCE WITH 2010 NFPA 54 AND 2006 INTERNATIONAL FUAL GAS CODE (IFGC).

Steel Pipe Pipe Size	Spacing	Steel Pipe Pipe Size	Spacing
1/2"	6'-0"	2"	10'-0"
3/4"	8'-0"	2-1/2"	10'-0"
1"	8'-0"	3"	10'-0"
1-1/4"	10'-0"	4"	10'-0"
1-1/2"	10'-0"		

INSTALLATION NOTE
UTILIZE PRE-MANUFACTURED ROOF SUPPORT PRODUCT FOR PIPING. REMOVE ANY/ALL GRAVEL FROM UNDER SUPPORT. INSTALL SUPPORT AT SPACING PER ROOF SUPPORT SPACING SCHEDULE. SPACING OF SUPPORTS SHALL NOT EXCEED 10'-0". LONG PIPING RUNS MAY REQUIRE OVERSIZED CLAMPS OR ROLLERS TO ALLOW FOR EXPANSION AND CONTRACTION. INSTALL PER LOCAL CODES. INSTALL GAS PIPING LEVEL. PRESSURE TREATED WOOD IS NOT PERMITTED.



ROOFTOP GAS PIPE SUPPORT DETAIL

NOT TO SCALE

EQUAL MANUFACTURERS: E-Z SLEEPER, MIRO INDUSTRIES, ROOFTOP BLOX

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TITLE
PLUMBING NOTES AND SCHEDULES

SHEET NO.
P2.1

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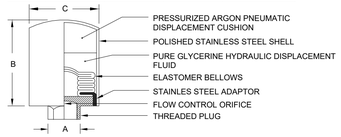
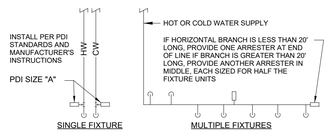
WATER HAMMER ARRESTOR SCHEDULE				
TYPE (WHA)	DIMENSION 'A' DIA	DIMENSION 'B'	DIMENSION 'C' DIA	FIXTURE UNIT CAPACITY
'A'	3/4"	4-1/2"	3-1/4"	1-11
'B'	1"	5-1/4"	3-1/4"	12-32
'C'	1"	6"	3-1/4"	33-60
'D'	1"	6-3/4"	3-1/4"	61-113
'E'	1"	6-3/4"	5"	114-154
'F'	1"	7-3/4"	5"	155-330



WATER HAMMER ARRESTER SHALL BE SIZED AND PLACED THROUGHOUT PLUMBING WATER SYSTEMS AS REQUIRED PER PLUMBING & DRAINAGE INSTITUTE'S STANDARD PDI-WH201, WATER HAMMER ARRESTERS.



PDI 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

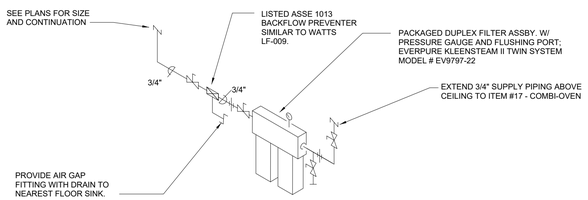
FIXTURE UNIT TABULATION (WSFU)		
FIXTURE	COLD	HOT
TANK TYPE TOILET	5	-
URINAL	5	-
LAVATORY	1.5	1.5
KITCHEN SINK	1.5	1.5
3-COMP SINK	3	3
MOP BASIN	2.25	2.25

PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS, ZURN OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. 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.

WATER HAMMER ARRESTER DETAIL

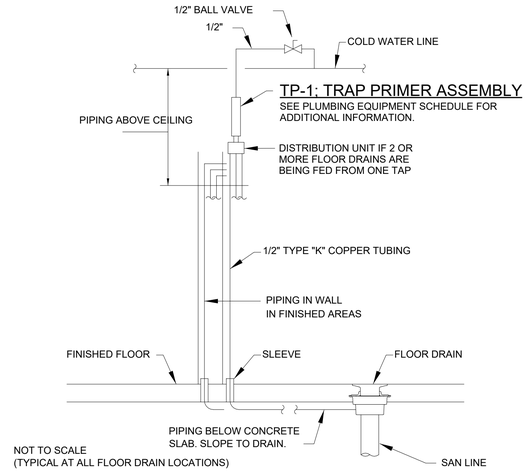
INSTALLATION NOTES:

1. PROVIDE STOPS WITH WHEEL HANDLE OPERATORS.
2. PROVIDE CLEAR ACCESS FOR SERVICE & MAINTENANCE OF ALL ELEMENTS, INCLUDING SPACE BELOW FILTER ASSEMBLY FOR REMOVAL & REPLACEMENT OF CARTRIDGES



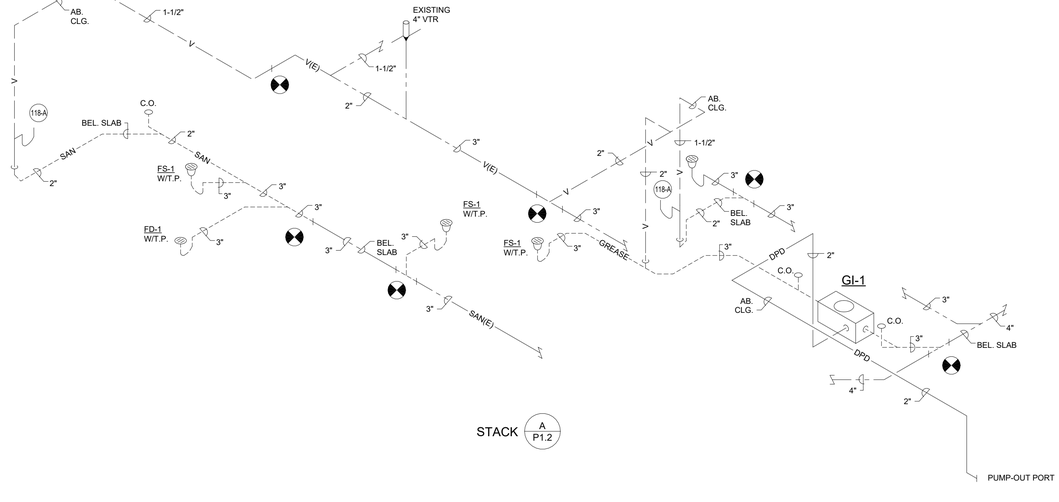
WF-1; FILTER INSTALLATION DIAGRAM

NOT TO SCALE



NOT TO SCALE
(TYPICAL AT ALL FLOOR DRAIN LOCATIONS)

TP-1; TRAP PRIMER PIPING DIAGRAM

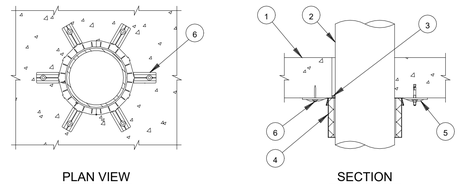


STACK A / P1.2

U.L. SYSTEM NO. CAJ2109

PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3-HR.
T RATING = 0, 2, AND 3-HR. (SEE U.L. FIRE RESISTANCE DIRECTORY VOL. 2)



PLAN VIEW SECTION

1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).
   B. ANY U.L. CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (ALSO SEE NOTE NO. 3 BELOW):
   A. MAXIMUM 6" DIAMETER PVC PLASTIC PIPE (CELLULAR AND SOLID CORE).
   B. MAXIMUM 6" DIAMETER ABS PLASTIC PIPE (CELLULAR AND SOLID CORE).
   C. MAXIMUM 6" DIAMETER FRPP PLASTIC PIPE.
   D. MAXIMUM 6" DIAMETER CPVC PLASTIC PIPE.
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
4. HILTI CP 642 OR HILTI CP 643 FIRESTOP COLLAR (SEE TABLE BELOW).
5. MOUNTING TAB FOR HILTI CP 642 OR HILTI CP 643 FIRESTOP COLLAR.
6. HILTI POWDER ACTUATED FASTENERS (X-ZF 27 PINS WITH WASHERS) OR 1/4" HILTI KWIK-BOLT II ANCHORS TO FASTEN EACH MOUNTING TAB.

PIPE DIAMETER	PRODUCT DESCRIPTION	NO. OF MOUNTING TABS	MAX. HOLE SIZE
1-1/2"	CP 643 50/1.5"	2	2-1/8"
2"	CP 643 63/2"	2	2-5/8"
3"	CP 643 90/3"	3	4"
4"	CP 643 110/4"	3	5"
6"	CP 642 160/6"	6	7"

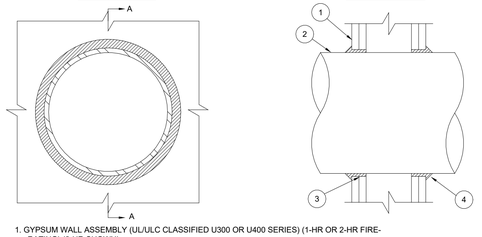
NOTES: 1. HILTI CP 642/643 FIRESTOP COLLARS ARE REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/2".
3. CLOSED OR VENTED PIPING SYSTEMS. (PVC, ABS, FRPP = SCHEDULE 40, CPVC = SDR 17).

UL/CUL SYSTEM NO. WL1085

METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR
L RATING AT AMBIENT = LESS THAN 1CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT..

FRONT VIEW SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMTER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER EMT.
   E. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
3. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE.
4. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT TO BE INSTALLED AROUND PIPE, LAPPING 1/4" BEYOND PERIPHERY OF OPENING

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 13-1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

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NO.	DATE	DESCRIPTION
	12/16/2024	CD REVIEW
	01/29/2025	BID & PERMIT

DATE	01/29/2025
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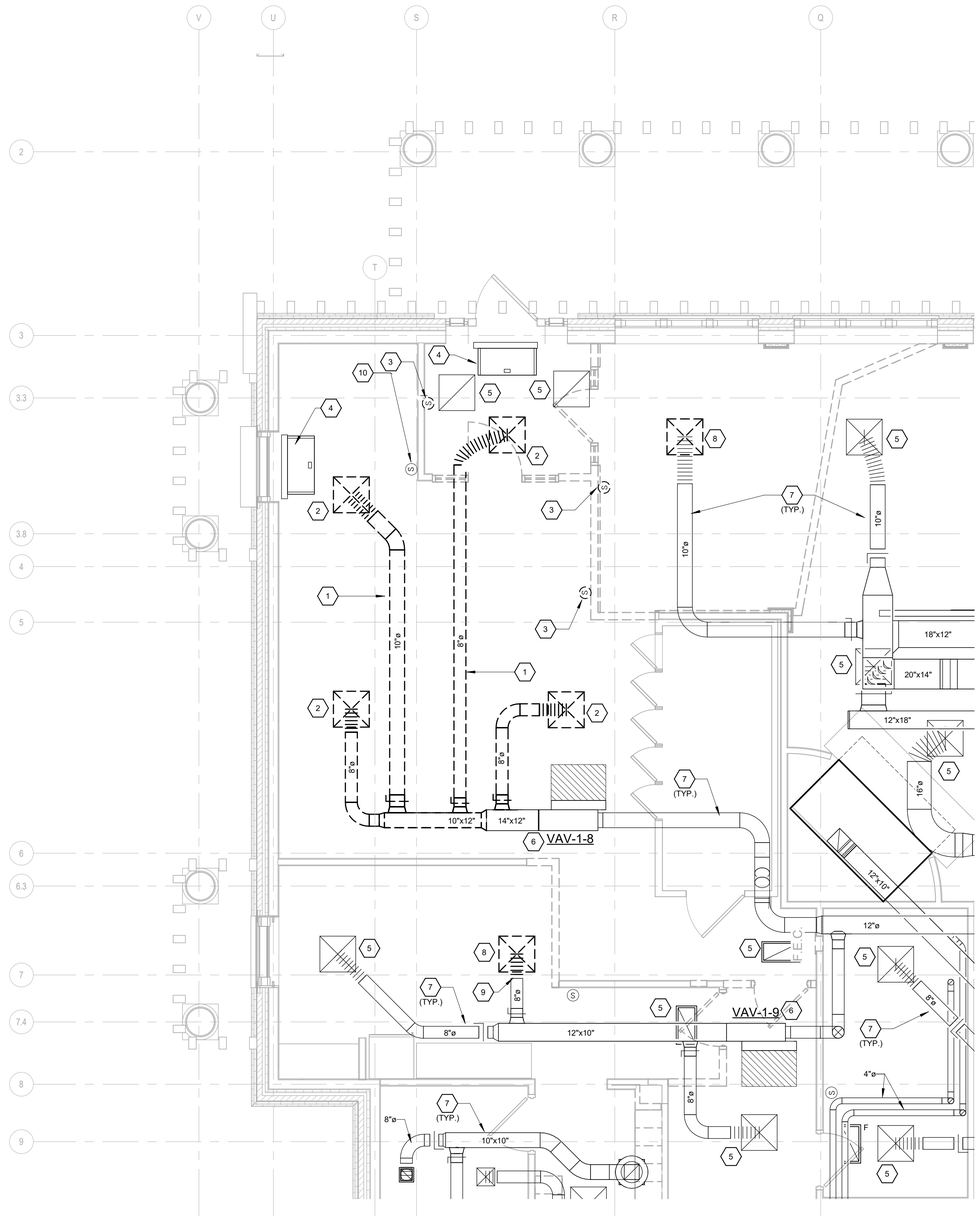
TITLE
PLUMBING DETAILS

SHEET NO.
P2.2

1/29/2025 3:44:29 PM

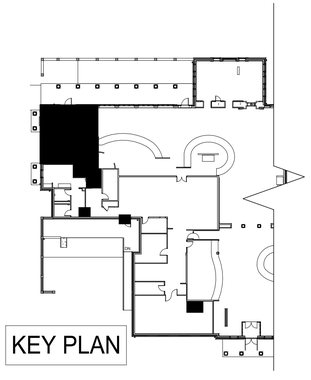
CODED NOTES ⬡

1. EXISTING DUCTWORK TO BE REMOVED.
2. EXISTING AIR DEVICE TO BE REMOVED.
3. EXISTING THERMOSTAT TO BE RELOCATED. REFER TO NEW WORK PLAN FOR NEW LOCATION.
4. EXISTING AIR CURTAIN TO REMAIN.
5. EXISTING AIR DEVICE TO REMAIN.
6. EXISTING VAV BOX TO REMAIN. REBALANCE TO AIRFLOW NOTED
7. EXISTING DUCTWORK TO REMAIN.
8. EXISTING AIR DEVICE TO BE RELOCATED. REFER TO NEW WORK PLAN FOR NEW LOCATION.
9. REMOVE DUCTWORK DOWNSTREAM OF THIS POINT.
10. EXISTING THERMOSTAT TO REMAIN.



FIRST FLOOR HVAC DEMO PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

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TITLE
FIRST FLOOR HVAC DEMOLITION PLAN

SHEET NO.
HD1.1

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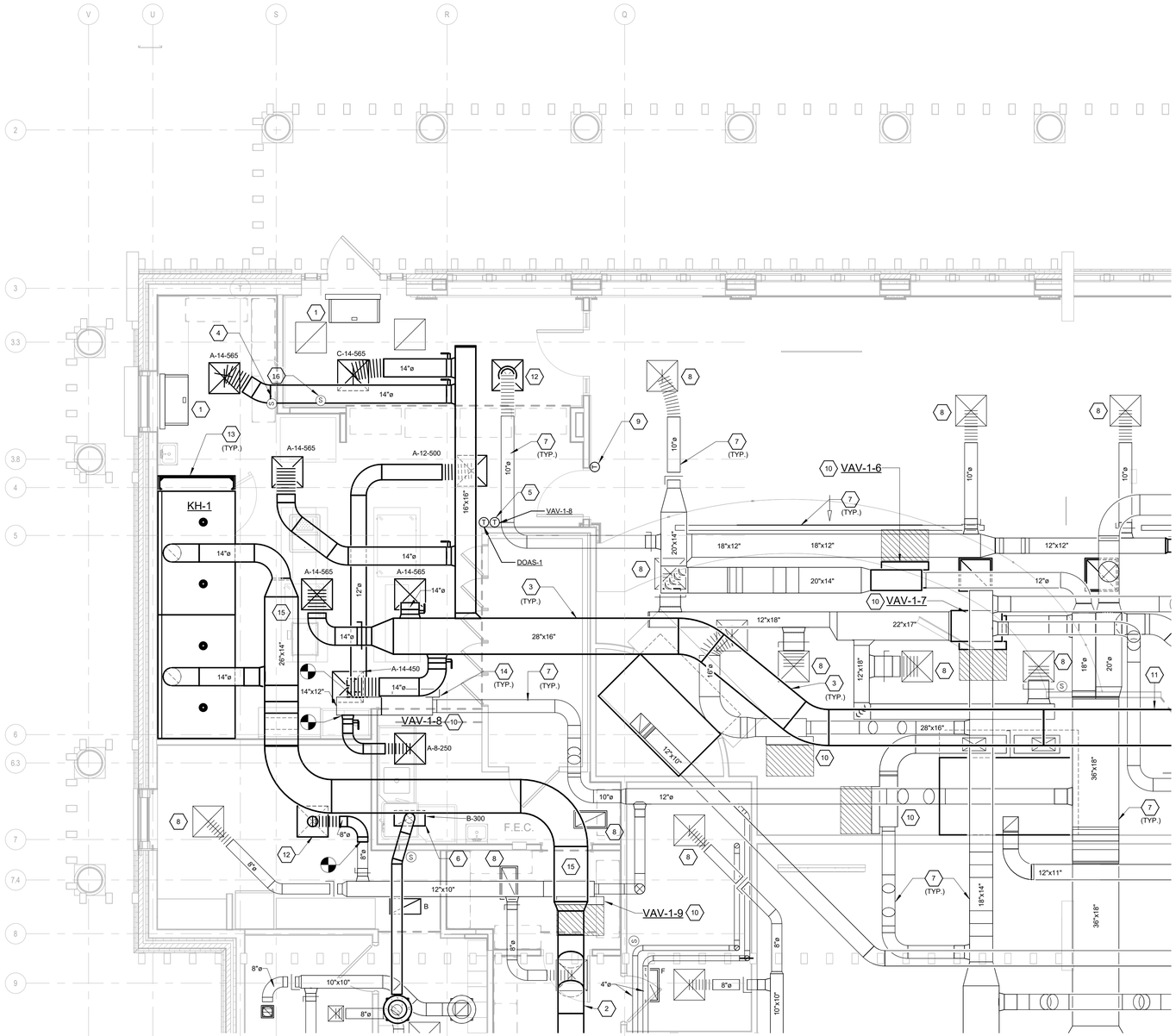
1/29/2025 9:28:59 AM

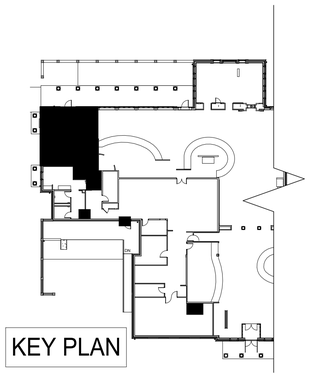
CODED NOTES

1. EXISTING AIR CURTAIN TO REMAIN.
2. SEE ROOF PLAN FOR CONTINUATION OF NEW EXHAUST DUCT.
3. MOUNT NEW DOAS DUCTWORK OVER TOP OF EXISTING DUCTWORK BETWEEN EXISTING JOISTS. CONTRACTOR TO PROVIDE TEMPORARY CATWALK BETWEEN EXISTING JOISTS ALLOWING THE NEW DUCTWORK TO BE INSTALLED ABOVE THE EXISTING DRYWALL CEILING. THE SUPPORTS SHALL BE REMOVED AFTER THE NEW DUCTWORK IS INSTALLED.
4. EXISTING TEMPERATURE SENSOR SERVING AIR CURTAIN TO REMAIN.
5. EXISTING THERMOSTAT SERVING VAV-1-8 RELOCATED TO THIS LOCATION.
6. MOUNT EXHAUST GRILLE DIRECTLY ABOVE NEW DISHWASHER.
7. EXISTING DUCTWORK TO REMAIN.
8. EXISTING AIR DEVICE TO REMAIN.
9. EXISTING THERMOSTAT SERVING VAV-1-6 RELOCATED TO THIS LOCATION.
10. EXISTING VAV BOX TO REMAIN.
11. SEE ROOF PLAN FOR CONTINUATION OF NEW SUPPLY DUCT.
12. RELOCATED EXISTING AIR DEVICE. NO REBALANCE WORK NEEDED.
13. INTERLOCK WIRING BETWEEN THE HOOD, DOAS, AND KITCHEN EXHAUST FAN SHALL BE BY THE ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS AND KITCHEN HOOD DRAWINGS.
14. VAV-1-8 SHALL OPERATE AT A CONSTANT AIRFLOW OF 250 CFM WHEN THE KITCHEN IS OPERATIONAL. DURING UNOCCUPIED HOURS THE DOAS UNIT WILL BE OFF AND VAV-1-8 MODULATE THE AIRFLOW TO MAINTAIN SPACE TEMPERATURE. REFER TO SEQUENCES OF OPERATION.
15. HOOD EXHAUST DUCTWORK SHALL BE CAPTIVEAIRE DW-3Z PREFABRICATED DOUBLEWALL GREASE DUCT OR EQUIVALENT.
16. EXISTING TEMPERTURE SENSOR SERVING AIR CURTAIN RELOCATED TO THIS LOCATION.



FIRST FLOOR HVAC PLAN

SCALE: 1/4" = 1'-0"



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TITLE
FIRST FLOOR HVAC PLAN

SHEET NO.
H1.1

1/29/2025 9:28:55 AM

CODED NOTES

1. MOUNT NEW UTILITY SET GREASE EXHAUST FAN ON 14" HIGH ROOF CURB WITH SPRING ISOLATORS.
2. MOUNT NEW DOAS UNIT ON 14" HIGH CURB.
3. EXISTING EXHAUST FAN TO REMAIN.
4. MOUNT NEW EXHAUST FAN ON 14" HIGH CURB.
5. EXTEND NEW DUCT THROUGH EXISTING BRICK WALL. SEAL PENETRATION WATER TIGHT.
6. NEW DOAS UNIT SHALL BE POSITIONED SO THE OUTSIDE AIR INTAKE IS GREATER THAN 10' FROM THE NEAREST EXHAUST FAN. THE UNIT SHALL BE LOCATED MINIMUM OF 10' FROM THE EDGE OF THE ROOF.
7. DUCTWORK ON ROOF SHALL BE SPOORTED BY PATE STYLE EQUIPMENT RAILS AND SECURED TO THE ROOF STRUCTURE. OUTDOOR DUCTWORK SHALL CONSTRUCTED OF THERMADUCT. REFER TO SPECIFICATIONS FOR OUTDOOR DUCTWORK REQUIREMENTS.
8. NEW DOAS SUPPLY AIR DUCTWORK SHALL BE MOUNTED HIGH IN ATTIC SPACE ABOVE EXISTING DUCTWORK. PROVIDE TEMPORARY CATWALK FOR DUCTWORK INSTALLATION.

ATTIC SPACE

REFER TO SHEET H1.1 FOR CONTINUATION OF NEW SUPPLY DUCT.

28"x16"

REFER TO SHEET H1.1 FOR CONTINUATION OF NEW EXHAUST DUCT.

EF-2

EF-4

EF-1

EF-3

EF-5

EF-7

EF-8

EF-6

EF-9

EF-11
NEW DISH FAN

EF-10
NEW KITCHEN HOOD EXHAUST

ROOF

DOAS-1
NEW

ROOF LEVEL MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

KEY PLAN

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TITLE
ROOF LEVEL MECHANICAL PLAN

SHEET NO.
H1.2

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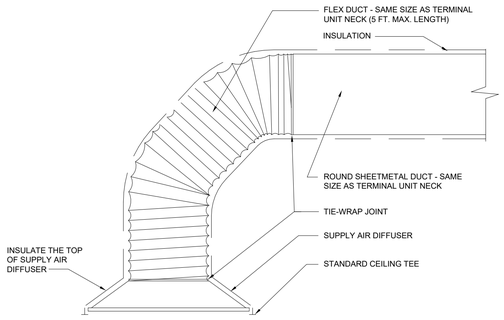
1/28/2025 4:00:39 PM

FAN SCHEDULE

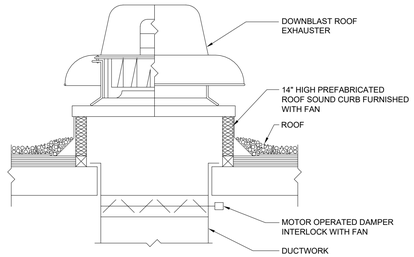
MANUFACTURER'S MODEL NUMBER BASED ON GREENHECK UNLESS OTHERWISE NOTED.
KEY: CENT.-CENTRIFUGAL; PROP.-PROPELLER; F.C.-FORWARD CURVED; B.I.-BACKWARD INCLINE;
A.F.-AIR FOIL; A.T.L.-ACROSS THE LINE; VFD-VARIABLE FREQUENCY DRIVE

FAN NO.	LOCATION	FUNCTION	MFGR. MODEL NUMBER	FAN TYPE	WHEEL TYPE & SIZE	CFM	EXT. S.P. "W.G.	R.P.M.	TIP SPEED F.P.M.	OUTLET VELOCITY F.P.M	MAX. SOUND RATING (SONES)	INPUT WATTS	MOTOR HP	BHP REQ'D	VOLT / PHASE	TYPE MOTOR STARTING	DAMPER GRAVITY	DAMPER MOTOR OPERATED	DRIVE ADJUST. V-BELT	DRIVE DIRECT	REMARKS
EF-11	ROOF	DISH ROOM EXH.	GREENHECK G-090-VG	DIRECT DRIVE CENTRIFUGAL	B.I. 10.875"	450	0.3	1,315	3,743	643	5.6	-	1/10	0.04	115 / 1	E.C.M.		○		○	1 2 3 4

1. FAN SHALL BE CONTROLLED BY TIME CLOCK FAN SHALL RUN DURING HOURS OF OPERATION. COORDINATE SCHEDULE WITH BUILDING OWNER.
2. 14" HIGH SOUND CURB.
3. FAN TO BE FURNISHED W/ FACTORY MOUNTED VARIABLE SPEED SWITCH FOR BALANCING.
4. FURNISH WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.



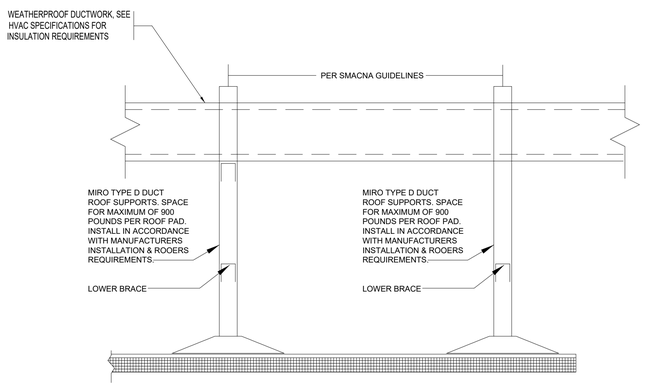
SUPPLY AIR DIFFUSER DETAIL



DOWNBLAST ROOF EXHAUSTER DETAIL

SCALE: NO SCALE

NOTE:
SEE ARCHITECTURAL FOR MECHANICAL ROOF CURB ADDED STRUCTURE AND MOUNTING DETAILS



DUCTWORK ROOF SUPPORT DETAIL

SCALE: N.T.S.

AIR TERMINAL SCHEDULE

ROUND AND SQUARE DIFFUSERS: TYPE OF OUTLET / SIZE OF OUTLET (NECK SIZE DIAMETER FOR DIFFUSERS) — A - 8 - 300 — AIR QUANTITY IN C.F.M. (DIFF. & REG. ONLY)

LINEAR DIFFUSERS: TYPE OF OUTLET / NUMBER OF SLOTS — C4 - 300 — AIR QUANTITY IN C.F.M. (DIFF. & REG. ONLY)

TYPE	DESCRIPTION
A	SUPPLY AIR DIFFUSER, LAY-IN, 24"x24", PRICE MODEL PDS: SUPPLY DIFFUSERS SHALL HAVE PATTERN CONTROLLERS. DIFFUSER SHALL BE CONSTRUCTED OF ALUMINUM.
B	RETURN/EXHAUST AIR GRILLE, SURFACE MOUNTED, PRICE MODEL 630: 24"x12" UNLESS OTHERWISE NOTED. RETURN GRILLE SHALL BE CONSTRUCTED OF ALUMINUM.
C	SUPPLY AIR DIFFUSER, SURFACE MOUNTED, 24"x24", PRICE MODEL PDS: SUPPLY DIFFUSERS SHALL HAVE PATTERN CONTROLLERS. DIFFUSER SHALL BE CONSTRUCTED OF ALUMINUM.

NOTES:
1. PROVIDE A SHEET METAL PLENUM ABOVE/BEHIND EACH DUCTED GRILLE OR REGISTER FOR MAKING A CONNECTION TO THE BRANCH DUCT. PAINT THE INSIDE OF ALL UNLINED PLENUMS FLAT BLACK.
2. COORDINATE THE GRID FACE DIMENSION OF ALL LAY-IN TYPE CEILING SUSPENSION SYSTEMS WITH THE CONTRACTOR. PROVIDE NARROW TEE TYPE DEVICES WHERE REQUIRED.
3. COORDINATE FINAL COLOR OF ALL AIR DEVICES WITH THE UNIVERSITY.
4. COORDINATE ALL FRAME TYPES WITH NEW CEILING GRID.

EXISTING VAV BOX SCHEDULE

REHEAT COIL SELECTIONS BASED ON 20°F WATER TEMP. DROP, 130°F ENTERING WATER, 55°F ENTERING AIR

BOX NO.	MODE	SIZE	MAX CFM	MIN COOLING CFM	MAX HEATING CFM	AIR TEMP. RISE (°F)	GPM	MBH	PIPE SIZE	REMARKS
1-8	OCCUPIED	10"Ø	250	250	250	40	1.1	10.8	3/4"	1 2 6
1-8	UNOCCUPIED	10"Ø	750	225	750	40	3.2	32.5	3/4"	1 2 6

1. EXISTING VAV BOX TO REMAIN.
2. BALANCE TO AIRFLOW AND GPM IN SCHEDULE. VAV BOX SHALL HAVE AN OCCUPIED SETPOINT AND AN UNOCCUPIED SETPOINT.
3. UPDATE BAS GRAPHICS TO INCLUDE NEW MIN/MAX AIRFLOWS FOR EACH MODE.

HVAC LEGEND

SYMBOL	DESCRIPTION
COND	LOW PRESSURE CONDENSATE
CPD	CONDENSATE PUMP DISCHARGE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER LINE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
D	DRAIN LINE
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
F/C	FLUE/COMBUSTION AIR PIPING
	RETURN RISER
	SUPPLY RISER
	AIR VENT - PLAN VIEW
	CAPPED LINE
	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED
C	RISE OR DROP
	PIPE BRANCH TOP CONNECTION
	PIPE BRANCH BOTTOM CONNECTION
	PIPE ANCHOR
	PIPE FLANGES
	PIPE GUIDE
	PIPE UNION
	FLEXIBLE PIPE CONNECTION
	FLEXIBLE DUCT
	SPIN-IN FITTING WITH EXTRACTOR AND BALANCE DAMPER
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	TEE WITH NIPPLE & CAP
	PLUGGED TEE
	Y-TYPE STRAINER
	PETE'S PLUG
	BUTTERFLY VALVE (FLANGED)

SYMBOL	DESCRIPTION
	GAGE COCK
	COMB. BALANCE & STOP VALVE
	BALL VALVE
M	BALL VALVE W/MEMORY STOP
	GATE VALVE (SCREWED BODY)
	BALANCE FITTING
	DRAIN VALVE WITH HOSE END
	GLOBE VALVE
	GATE VALVE (FLANGED BODY)
	AUTO CONTROL VALVE
S	SOLENOID VALVE
	CHECK VALVE
	GAS COCK OR BALANCE VALVE
	METERED BALANCE VALVE
	BUTTERFLY VALVE
M	BUTTERFLY VALVE W/MEMORY STOP
T	TEMPERATURE SENSOR
F	FLOW SWITCH
T	THERMOSTAT
H	HUMIDISTAT
	THERMOMETER
	CONNECT TO EXISTING
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	R.A., O.A., OR EXH. DUCT UP
	R.A., O.A., OR EXH. DUCT DOWN
Ø	ROUND DUCT
	FLAT OVAL DUCT
	45° BOOT BRANCH TAKEOFF
	ELBOW WITH TURNING VANES
	FIRE DAMPER
	MAN. DAMPER
	ACCESS DOOR

HVAC ABBREVIATIONS

AB.	ABOVE	HTG.	HEATING
A.D.	ACCESS DOOR	H & A/C	HEATING & AIR CONDITIONING
A.F.F.	ABOVE FINISHED FLOOR	H & C	HEATING & COOLING
APPROX.	APPROXIMATELY	H & V	HEATING & VENTILATING
ARCH.	ARCHITECT	H.V.	HIGH VELOCITY
AUTO. CONT.	AUTOMATIC CONTROL	IND. U.	INDUCTION UNIT
BSBD. RAD.	BASEBOARD RADIATION	MAN. DPR.	MANUAL DAMPER
BTM.	BOTTOM	MFR.	MANUFACTURER
BLDG.	BUILDING	MECH.	MECHANICAL
CAB.	CABINET	M. A.	MIXED AIR
CAP.	CAPACITY	MTD.	MOUNTED
CLG.	CEILING	NOM.	NOMINAL
CONC.	CONCRETE	OPNG.	OPENING
CONN.	CONNECT	O.A.	OUTSIDE AIR
CONTR.	CONTRACTOR	PLBG.	PLUMBING
CONT.	CONTINUATION	PRESS.	PRESSURE
CONV.	CONVECTOR	P.R.V.	PRESSURE REDUCING VALVE
COORD.	COORDINATE	PROP.	PROPELLER
DTL.	DETAIL	RAD.	RADIATOR
DIA.	DIAMETER	REFG.	REFRIGERATION
DIFF.	DIFFUSER	REG.	REGISTER
DISCH.	DISCHARGE	RHC.	REHEAT COIL
DN.	DOWN	REQD.	REQUIRED
ELEC.	ELECTRICAL	REL.	RELIEF
ELEM.	ELEMENT	R.A.	RETURN AIR
ELEV.	ELEVATION	RM.	ROOM
EXH	EXHAUST	SCHED.	SCHEDULE
EXIST.	EXISTING	SHT.MTL.	SHEET METAL
FT. HD.	FEET OF HEAD	SQ.	SQUARE
FIN. RAD.	FINNED RADIATION	STAT.	THERMOSTAT
F. DPR.	FIRE DAMPER	S.A.	SUPPLY AIR
FLEX.	FLEXIBLE	S & R	SUPPLY & RETURN
F & T	FLOAT & THERMOSTATIC	TEMP.	TEMPERATURE
FLR.	FLOOR	THERM.	THERMOMETER
F.D.	FLOOR DRAIN	TYP.	TYPICAL
FURN.	FURNISH	T.C.C.	TEMP. CONTROL CONTRACTOR
GA.	GAGE	U.H.	UNIT HEATER
GEN.	GENERAL	U.V.	UNIT VENTILATOR
GRAV.	GRAVITY	VIB. ISOL.	VIBRATION ISOLATOR
GR.	GRILLE	W/W	WALL TO WALL
HTR.	HEATER	W/	WITH

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TIM PRATER
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REGISTERED PROFESSIONAL ENGINEER
01/29/2025

Miami University
NOURISH
95 N. Patterson Road, Oxford, OH 45056

ISSUE

NO.	DATE	DESCRIPTION
	12/16/2024	CD REVIEW
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CHECKED	-

TITLE
HVAC SCHEDULES & DETAILS

SHEET NO.
H2.1

PRATER ENGINEERING ASSOCIATES
6130 Wilcox Road
Dublin, Ohio 43016
Phone: (614) 766-4896 Fax: (614) 766-2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
A. PRATER	A. PRATER		24213

12/29/2025 9:28:57 AM

FOR QUESTIONS, CALL THE:
OHIO REGIONAL OFFICE
806 MORRISON ROAD, GAHANNA, OH 43230
PHONE: (800) 948-6945
FAX: (919) 227-5925

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted ☐
Approved with NO Exception Taken ☐
Revise and Resubmit ☐
SIGNATURE _____
Your Title:_____Date:_____ _____

HANGING ANGLE LOCATIONS

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24"Ht)	DIM FROM FRONT (30"Ht)
CANOPY ND2	4.166"	2.246"	2.246"
ND2-PSP-F	4.166"	2.246"	2.246"
BACKSHELF BD-2	4.166"	2.246	-
VHB/VHB-G	36"X36"	42"X42"	48"X48"
FRONT/BACK DIMS BY SIZE	2.246"	2.246"	2.246"

CALCULATIONS UTILIZED

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 X $\frac{\text{CFM}}{\text{FPM}(*)}$

DUCT LENGTH= $\frac{\text{TOTAL DUCT AREA}}{\text{DUCT DEPTH}}$

* CAPTIVE-AIRE DUCT CONNECTION SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 300-400 FPM.

BUILDING CODES

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

LISTED & #3054804-001 #3054804-002

STANDARD 710

Intertek

BUILT IN ACCORDANCE WITH NFPA No. 96

Listed under ETL File number 3054804-001/002

CLEARANCE TO COMBUSTIBLES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	1" INSULATED STANDOFF

GENERAL NOTES

INSTALLATION

1. ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
2. ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
3. HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
4. ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTOR'S PLANS.
5. COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE.
6. EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
7. ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
8. LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
9. SEISMIC RESTAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
10. INSTALLING CONTRACTORS ASSUME ALL RELATED REPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

BALANCE

11. KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
12. KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
13. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

ADDITIONAL

14. WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
15. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

FOR QUESTIONS, CALL THE
Northern Ohio Mechanical
REGION 106
PHONE: (800) 948 - 6945
EMAIL: reg106@captiveaire.com

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#7199574

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	H-1	6030 ND-2	CAPTIVEAIRE	8' 1"	600 DEG	I	HEAVY	223	1800			4"	14"	1800	1684	-0.698"	430 SS WHERE EXPOSED	LEFT	ALONE
2	H-2	6030 ND-2	CAPTIVEAIRE	8' 1"	600 DEG	I	HEAVY	223	1800			4"	14"	1800	1684	-0.698"	430 SS WHERE EXPOSED	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	H-1	CAPTRATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO							YES	539 LBS
2	H-2	CAPTRATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	RIGHT	12"x60"x30"	TANK FS	4.0/4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	1023 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	H-1	BACKSPLASH 128.00" HIGH X 243.00" LONG 430 SS VERTICAL.
		LEFT SIDESPLASH 128.00" HIGH X 78.00" LONG 430 SS VERTICAL.
		LEFT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		INSULATION FOR TOP OF HOOD.
		STRUCTURAL FRONT PANEL.
		INSULATION FOR BACK OF HOOD.
		LEFT WALL AS END PANEL.
2	H-2	INSULATION FOR TOP OF HOOD.
		STRUCTURAL FRONT PANEL.
		INSULATION FOR BACK OF HOOD.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT

___' - ___"

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE_____
YOUR TITLE_____DATE_____ _____

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

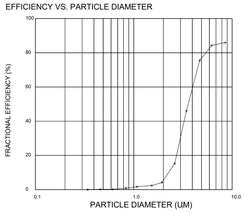
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

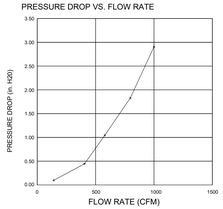
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER

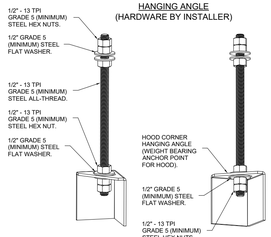


PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

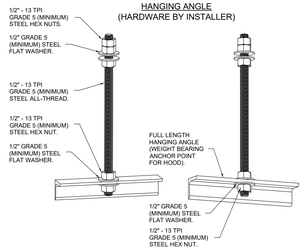
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

FULL LENGTH HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

REVISIONS

	DESCRIPTION	DATE:
△		
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Northern Ohio Mechanical

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Miami University Garden Commons KVS rev2
95 North Patterson Avenue,
Oxford, OH, 45056

DATE: 1/24/2025

DWG.#: 7199574

DRAWN TD-REG106

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 1

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TITLE
HOOD SHEET 1

SHEET NO.
H3.1

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			24213

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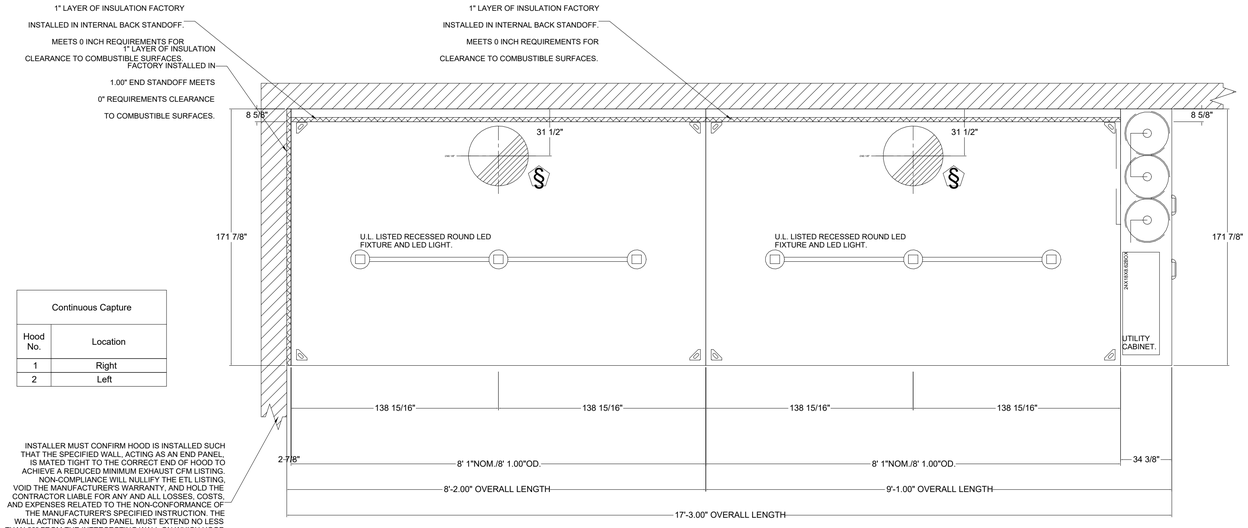
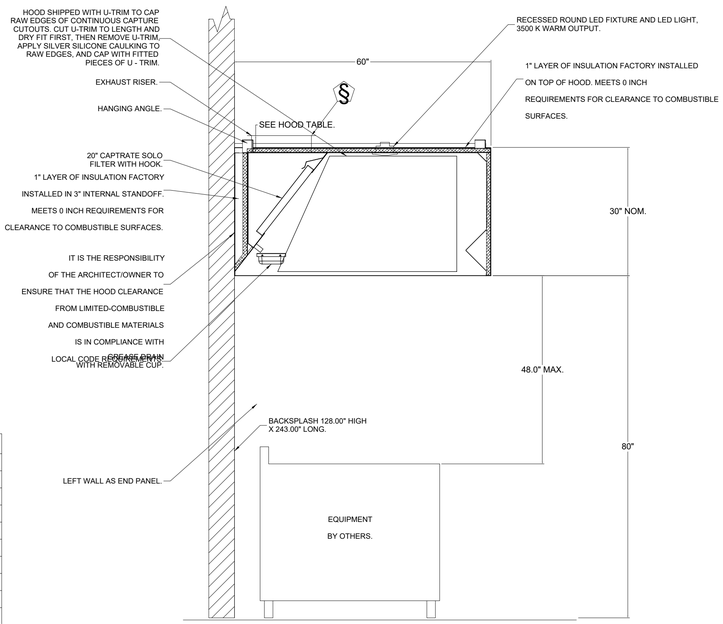


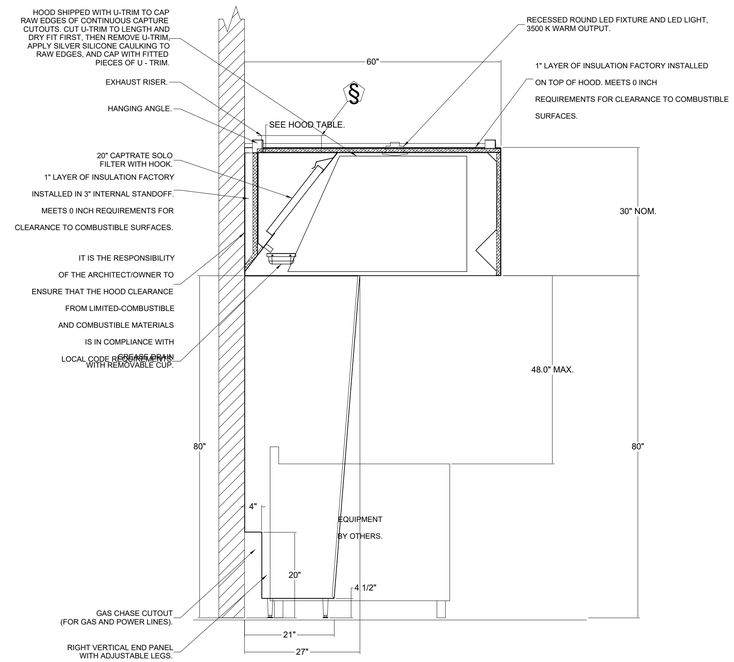
Continuous Capture	
Hood No.	Location
1	Right
2	Left

PLAN VIEW - HOOD #1 (H-1) 8' 1.00" LONG 6030ND-2

PLAN VIEW - HOOD #2 (H-2) 8' 1.00" LONG 6030ND-2



SECTION VIEW - MODEL 6030ND-2 HOOD - #1 (H-1)



SECTION VIEW - MODEL 6030ND-2 HOOD - #2 (H-2)

CLEARANCE TO COMBUSTIBLES		
HOODS #	SURFACE	*CLEARANCE
1	TOP	0"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	18"
2	TOP	0"
	FRONT	0"
	BACK	0"
	LEFT	18"
	RIGHT	0"

- "0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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SCALE: 3/4" = 1'-0"

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TITLE
HOOD SHEET 2

SHEET NO.
H3.2

PRATER ENGINEERING ASSOCIATES
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Phone: (614) 766-4896 Fax: (614) 766-2354

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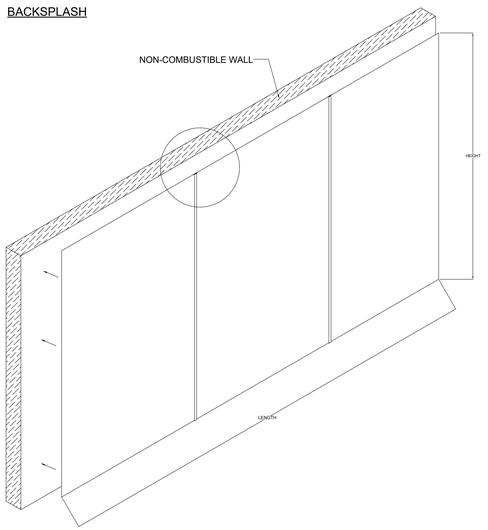
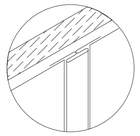
BACKSPLASH





BACKSPLASH PANELS
SLIDE INTO DIVIDER BAR

- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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TITLE
HOOD SHEET 3

SHEET NO.
H3.3

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FIRE SYSTEM INFORMATION - JOB#7199574

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0/4.0	60	46	FIRE CABINET RIGHT	RIGHT, HOOD 2

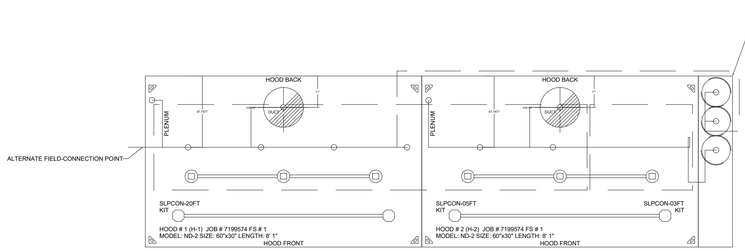
GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-OT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	2	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	3	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	2	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2 " NPT FEMALE CONNECTION, VIEGA.	2	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	3	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA)- SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	3	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #SJ500-201-EUOA, TANK FIRE SUPPRESSION, SUBMINIATURE SOLENOID CONNECTION (CED VENDOR 30377)	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	12	0
		0 - 0 - 9868A115 HARDWARE, DATANLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	6	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	2	0
		0 - 0 - DATANLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	0
		0 - 0 - SLPCON-03FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 2' GAP. KIT CONTAINS 5 FEET OF BLACK MG WIRE, 5 FEET OF TAN MG WIRE, 3 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - SLPCON-05FT SUPERVISED LOOP CONNECTION KIT . CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 4' GAP. KIT CONTAINS 7 FEET OF BLACK MG WIRE, 7 FEET OF TAN MG WIRE, 5 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - SLPCON-20FT SUPERVISED LOOP CONNECTION KIT . CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UP TO 19' GAP. KIT CONTAINS 22 FEET OF BLACK MG WIRE, 22 FEET OF TAN MG WIRE, 20 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	9	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	3	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES). ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2". PERMIT, AND SYSTEM TEST. EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.



NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 7199574.
JOB NAME: MIAMI UNIVERSITY GARDEN COMMONS KVS REV2.

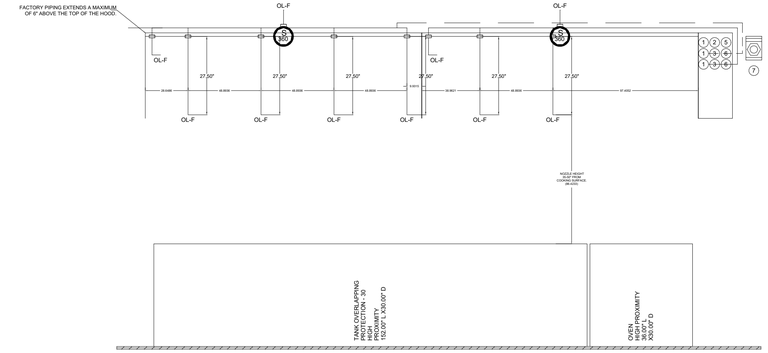
SYSTEM SIZE: TANK-SP-3 DESIGN FP: 46. MAXIMUM FP: 60.
HOOD # 1 8' 1.00" LONG x 60" WIDE x 30" HIGH.
RISER # 1 SIZE: 14" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 2 8' 1.00" LONG x 60" WIDE x 30" HIGH.
RISER # 1 SIZE: 14" DIA.
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

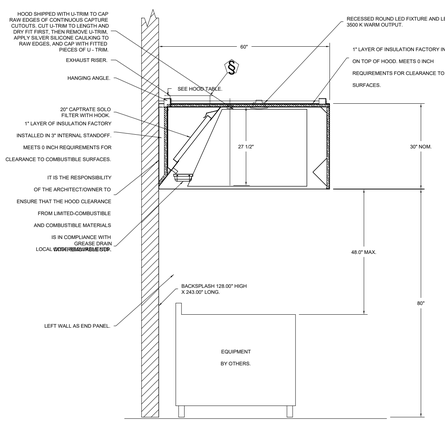
- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

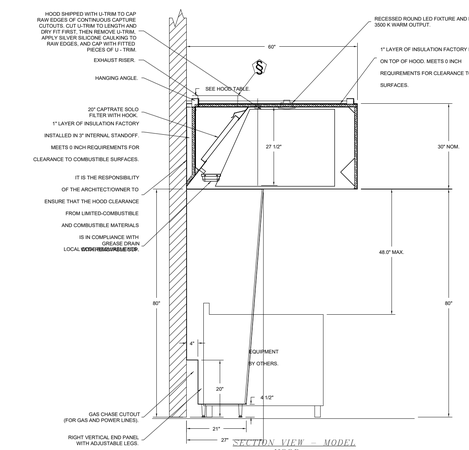
LEGEND - FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.





SECTION VIEW — MODEL (HOOD): 2 #1



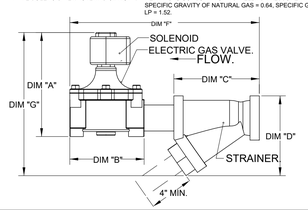
SECTION VIEW — MODEL (HOOD): 2 #2

GAS VALVES AND STRAINERS															
	GAS VALVE SIZING						GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS#1 —	ELECTRICAL	1"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	1,132,300 BTU/HR	734,733 BTU/HR	6-15/16"	5-15/16"	4-7/8"	5-3/16"	12-13/16"	10-11/16"	HORIZONTAL/VERTICAL	8214250	4417K65	(SC)EGVA1

ELECTRIC GAS VALVES ONLY: SOLENOID ORIENTATION
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL. 2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.
24VDC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.



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Miami University Garden Commons KVS rev2
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DRAWN TD-REG106
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MASTER DRAWING

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ISSUE

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	12/16/2024	CD REVIEW
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DATE	01/29/2025
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TITLE
HOOD SHEET 4

SHEET NO.
H3.4

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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM. 24213

1/29/2025 4:00:42 PM

EXHAUST FAN INFORMATION - JOB#7199574

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	USBI20DD-RM	CAPTIVEAIRE	3600	2.000	1387	ODP,PREMIUM	3.000	2.1470	3	208	10.2	1568 FPM	596	31

DOAS/RTU FAN SCHEDULE - JOB#7199574

FAN INFORMATION										ELECTRICAL INFORMATION					COOLING INFORMATION								REHEAT INFORMATION				GAS HEAT INFORMATION				A2L MINIMUM ROOM VOLUME			
															OUTSIDE AIR		LEAVING AIR		CAPACITY				DISCHARGE	CAPACITY									
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX. OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOCP	DB	WB	DB	WB	DP	TOTAL	SENS.	IEER	ISMRE	DB	WB	DES/RED	MAX	MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	ROOM AREA (FT2)	AIRFLOW (CFM)	HEIGHT (FT)	NOTES
2	RTU-KITCHEN	1	CAS-HVAC3-1.400-18-20T-DOAS	CAPTIVEAIRE	18P-3	0	3275	3275	2671	0.400	2.00	3	208	79.1A	80A	88.6°F	77.5°F	55.0°F	53.0°F	51.6°F	264.0 MBH	113.5 MBH	18.2	6.0	70.0°F	60.8°F	53.4 MBH	129.6 MBH	135.9 LBS/HR	NATURAL	300011	243009	63°F	7 IN. W.C. - 14 IN. W.C.	587.4	1057	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

NOTES:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY. 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER.
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR AND 22GA BASE
11. VARIABLE SPEED COMBUSTION MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 15:1 TURNDOWN WITH NG AND 12:1 TURNDOWN WITH LP
12. SUPPLY CFM MONITORING INTEGRATED TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
13. FULLY MODULATING HOT GAS REHEAT
14. SIDE DISCHARGE/NO RETURN
15. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	UTILITY SET GREASE CUP
		1	BI20 - 24" DISCHARGE EXTENSION
		1	BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE
		1	CURB MOUNTED SLED FOR USBI 20. USED TO MOUNT ON 45° L X 31" W CURB
		1	BI20 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT
		1	BI20 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 20" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	UTILITY SET - FAN SLED RESTRAINED SPRING VIBRATION ISOLATORS - BI11 THRU BI20 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE (SET OF 6)
		1	2 YEAR PARTS WARRANTY
2	RTU-KITCHEN	1	INLET PRESSURE GAUGE, 0-35"
		1	SHIP LOOSE GAS STRAINER 1"
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	OVERHEAT STAT
		1	TOTAL CFM MONITORING
		1	OCCUPIED SCHEDULING
		1	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	RTU3 CURB DUCT HANGER
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	R454B LEAK DETECTOR OPTION FOR RTU3
		1	20 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R454B
		1	120V FIRE INPUT
		1	HIGH TURNDOWN OPTION FOR DOAS UNITS
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES
		1	RTU BLOWER DOOR SWITCH
		1	DDC MSTP BACNET REMOTE UNIT MONITORING
		1	VAV PACKAGE W/ MANUAL/DDC CONTROL (571 VFD INCLUDED)
		1	RTU3 NO RETURN - 100% OA
		1	RTU FIXED 100% OA INTAKE CONTROL
		1	RTU3 SIDE DISCHARGE
		1	UNIT MOUNTED VFD CONFIGURED FOR DCV
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	41 LBS	CURB	31.000"W X 45.000"L X 14.000"H.
2	# 2	RTU-KITCHEN	173 LBS	CURB	59.500"W X 91.000"L X 14.000"H INSULATED 16 GAUGE.

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #2	HMI #2 - SPACE	KITCHEN	AVERAGED	56

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DOAS/RTU BACNet Points List - JOB#7199574

BACNET POINTS AVAILABLE FOR FAN #2 (RTU-Kitchen)					BACNET POINTS AVAILABLE FOR FAN #2 (RTU-Kitchen)				
BACNet Object	BACNet Type	BACNet ID	LON SNVT Name	Function	BACNet Object	BACNet Type	BACNet ID	LON SNVT Name	Function
DDCHeatCommand	BV	1	nviDDCHeat	Control/Monitor	SpaceTemp	AI	150	nvoSpaceTemp	Monitor Only
DDCCoolCommand	BV	2	nviDDCCool	Control/Monitor	HMI1Temp	AI	151	nvoHmi0Temp	Monitor Only
DDCBlowerCommand	BV	3	nviDDCBlow	Control/Monitor	SuctionLineTemp	AI	156	nvoSucLineTemp	Monitor Only
DDCModulation	AV	4	nviDDCModHeat	Control/Monitor	LiquidLineTemp	AI	157	nvoLiqLineTemp	Monitor Only
DDCOccupiedOverride	BV	5	nviDDCOccOvrrd	Control/Monitor	EvapIndoorCoilTemp	AI	158	nvoEvapCoilTemp	Monitor Only
MinDischargeHeatOccSP	AV	10	nviMinDHeatOccSP	Control/Monitor	CondOutdoorCoilTemp	AI	159	nvoOutCoilTemp	Monitor Only
MinDischargeHeatUnoccSP	AV	11	nviMinDHeatUnoSP	Control/Monitor	CompressorDischargeTemp	AI	160	nvoCompDisTemp	Monitor Only
MaxDischargeHeatOccSP	AV	14	nviMaxDHeatOccSP	Control/Monitor	IntakeRh	AI	161	nvoIntakeRh	Monitor Only
MaxDischargeHeatUnoccSP	AV	15	nviMaxDHeatUnoSP	Control/Monitor	SpaceRh	AI	162	nvoSpaceRh	Monitor Only
MinDischargeCoolOccSP	AV	20	nviMinDCoolOccSP	Control/Monitor	OutdoorRh	AI	163	nvoOutdoorRh	Monitor Only
MinDischargeCoolUnoccSP	AV	21	nviMinDCoolUnoSP	Control/Monitor	DischargeRh	AI	164	nvoDischargeRh	Monitor Only
MaxDischargeCoolOccSP	AV	24	nviMaxDCoolOccSP	Control/Monitor	SuctionLinePs	AI	166	nvoSucLinePs	Monitor Only
MaxDischargeCoolUnoccSP	AV	25	nviMaxDCoolUnoSP	Control/Monitor	DischargeLinePs	AI	167	nvoDisLinePs	Monitor Only
FirestatIntakeSP	AV	28	nviFireIntakeSP	Control/Monitor	LiquidLinePs	AI	168	nvoLiqLinePs	Monitor Only
FirestatDischargeSP	AV	29	nviFireDischSP	Control/Monitor	HMI1Rh	AI	169	nvoHmi0Rh	Monitor Only
FreezestatSP	AV	30	nviFreezeSP	Control/Monitor	CondFan1PwmRate	AI	176	nvoCond1PwmRate	Monitor Only
OverheatDischargeSP	AV	31	nviOheatDisSP	Control/Monitor	CondFan2PwmRate	AI	177	nvoCond2PwmRate	Monitor Only
CabinetHeatSP	AV	32	nviCabHeatSP	Control/Monitor	ModulatingGasValve1Output	AI	178	nvoMGV1Output	Monitor Only
FurnaceDrainHeatSP	AV	33	nviFDrainHeatSP	Control/Monitor	OilBoostActiveFlag	BI	182	nvoOilBoostON	Monitor Only
ScheduleSundayAStart	AV	46	nviSundayAStart	Control/Monitor	ReheatActiveFlag	BI	183	nvoReheatON	Monitor Only
ScheduleSundayAEnd	AV	47	nviSundayAEnd	Control/Monitor	DefrostActiveFlag	BI	184	nvoDefrostON	Monitor Only
ScheduleSundayBStart	AV	48	nviSundayBStart	Control/Monitor	PumpdownOffActiveFlag	BI	185	nvoPumpOFFOn	Monitor Only
ScheduleSundayBEnd	AV	49	nviSundayBEnd	Control/Monitor	PumpdownOnActiveFlag	BI	186	nvoPumpONOn	Monitor Only
ScheduleSundayCStart	AV	50	nviSundayCStart	Control/Monitor	ReheatValvePosition	AI	187	nvoReheatPos	Monitor Only
ScheduleSundayCEnd	AV	51	nviSundayCEnd	Control/Monitor	EevValvePosition	AI	188	nvoEevValvePos	Monitor Only
ScheduleMondayAStart	AV	52	nviMondayAStart	Control/Monitor	IntakeDpActual	AI	189	nvoInDpActual	Monitor Only
ScheduleMondayAEnd	AV	53	nviMondayAEnd	Control/Monitor	SpaceDpActual	AI	190	nvoSpDpActual	Monitor Only
ScheduleMondayBStart	AV	54	nviMondayBStart	Control/Monitor	CompressorPower	AI	191	nvoCompPower	Monitor Only
ScheduleMondayBEnd	AV	55	nviMondayBEnd	Control/Monitor	CompressorFrequency	AI	192	nvoCompFreq	Monitor Only
ScheduleMondayCStart	AV	56	nviMondayCStart	Control/Monitor	CompressorCurrent	AI	193	nvoCompAmps	Monitor Only
ScheduleMondayCEnd	AV	57	nviMondayCEnd	Control/Monitor	Subcool	AI	208	nvoSubcool	Monitor Only
ScheduleTuesdayAStart	AV	58	nviTuesdayAStart	Control/Monitor	Superheat	AI	209	nvoSuperheat	Monitor Only
ScheduleTuesdayAEnd	AV	59	nviTuesdayAEnd	Control/Monitor	ActiveFault1	AI	210	nvoActiveFault1	Monitor Only
ScheduleTuesdayBStart	AV	60	nviTuesdayBStart	Control/Monitor	ActiveFault2	AI	211	nvoActiveFault2	Monitor Only
ScheduleTuesdayBEnd	AV	61	nviTuesdayBEnd	Control/Monitor	ActiveFault3	AI	212	nvoActiveFault3	Monitor Only
ScheduleTuesdayCStart	AV	62	nviTuesdayCStart	Control/Monitor	ActiveFault4	AI	213	nvoActiveFault4	Monitor Only
ScheduleTuesdayCEnd	AV	63	nviTuesdayCEnd	Control/Monitor	ActiveFault5	AI	214	nvoActiveFault5	Monitor Only
ScheduleWednesdayAStart	AV	64	nviWedAStart	Control/Monitor	ActiveFault6	AI	215	nvoActiveFault6	Monitor Only
ScheduleWednesdayAEnd	AV	65	nviWedAEnd	Control/Monitor	SchedulingEnabledFlag	BV	216	nvoSchedEnabled	Control/Monitor
ScheduleWednesdayBStart	AV	66	nviWedBStart	Control/Monitor	HeatTemperModeOcc	AV	217	nvoHeatModeOcc	Control/Monitor
ScheduleWednesdayBEnd	AV	67	nviWedBEnd	Control/Monitor	HeatTemperModeUnocc	AV	218	nvoHeatModeUnocc	Control/Monitor
ScheduleWednesdayCStart	AV	68	nviWedCStart	Control/Monitor	CoolTemperModeOcc	AV	219	nvoCoolModeOcc	Control/Monitor
ScheduleWednesdayCEnd	AV	69	nviWedCEnd	Control/Monitor	CoolTemperModeUnocc	AV	220	nvoCoolModeUnocc	Control/Monitor
ScheduleThursdayAStart	AV	70	nviThursAStart	Control/Monitor	ActivateOnOcc	AV	221	nvoActivateOcc	Control/Monitor
ScheduleThursdayAEnd	AV	71	nviThursAEnd	Control/Monitor	ActivateOnUnocc	AV	222	nvoActivateUnocc	Control/Monitor
ScheduleThursdayBStart	AV	72	nviThursBStart	Control/Monitor	BlowerModeOcc	AV	223	nvoBlowModeOcc	Control/Monitor
ScheduleThursdayBEnd	AV	73	nviThursBEnd	Control/Monitor	BlowerModeUnocc	AV	224	nvoBlowModeUnocc	Control/Monitor
ScheduleThursdayCStart	AV	74	nviThursCStart	Control/Monitor	Reheat DP Adj Occ	AV	226	nvoDPAdjOcc	Control/Monitor
ScheduleThursdayCEnd	AV	75	nviThursCEnd	Control/Monitor	Reheat DP Adj Unocc	AV	227	nvoDPAdjUnocc	Control/Monitor
ScheduleFridayAStart	AV	76	nviFridayAStart	Control/Monitor	BlowerVfdMinFreqOcc	AV	228	nvoVFDMinFreqOcc	Control/Monitor
ScheduleFridayAEnd	AV	77	nviFridayAEnd	Control/Monitor	BlowerVfdMinFreqUnocc	AV	229	nvoVFDMinFUnocc	Control/Monitor
ScheduleFridayBStart	AV	78	nviFridayBStart	Control/Monitor	BlowerVfdMaxFreqOcc	AV	230	nvoVFDMaxFreqOcc	Control/Monitor
ScheduleFridayBEnd	AV	79	nviFridayBEnd	Control/Monitor	BlowerVfdMaxFreqUnocc	AV	231	nvoVFDMaxFUnocc	Control/Monitor
ScheduleFridayCStart	AV	80	nviFridayCStart	Control/Monitor	CFMReading	AI	244	nvoCFMReading	Read Only
ScheduleFridayCEnd	AV	81	nviFridayCEnd	Control/Monitor	StaticPressure	AI	245	nvoStaticPress	Read Only
ScheduleSaturdayAStart	AV	82	nviSatAStart	Control/Monitor					
ScheduleSaturdayAEnd	AV	83	nviSatAEnd	Control/Monitor					
ScheduleSaturdayBStart	AV	84	nviSatBStart	Control/Monitor					
ScheduleSaturdayBEnd	AV	85	nviSatBEnd	Control/Monitor					
ScheduleSaturdayCStart	AV	86	nviSatCStart	Control/Monitor					
ScheduleSaturdayCEnd	AV	87	nviSatCEnd	Control/Monitor					
BlowerManualFreqOcc	AV	88	nviBlowManFreqOc	Control/Monitor					
BlowerManualFreqUnocc	AV	89	nviBlowManFreqUn	Control/Monitor					
DynamicSpDiff	AV	120	nviDynSpDiff	Control/Monitor					
DynamicSpOffset	AV	121	nviDynSpOffset	Control/Monitor					
DynamicSpHeatOa	AV	122	nviDynSpHeatOa	Control/Monitor					
DynamicSpCoolOa	AV	123	nviDynSpCoolOa	Control/Monitor					
UnitStatus	AI	139	nvoCurrentState	Monitor Only					
CurrentOccupiedStatus	AI	140	nvoOccStatus	Monitor Only					
AverageSpaceTemp	AI	141	nvoAvgSpaceTemp	Monitor Only					
BlowerFrequency	AI	142	nvoBlowVFDFreq	Monitor Only					
BlowerCurrent	AI	143	nvoBlowVFDAmps	Monitor Only					
BlowerPower	AI	144	nvoBlowVFDPower	Monitor Only					
AverageRH	AI	145	nvoAvgRh	Monitor Only					
OutdoorTemp	AI	146	nvoOutdoorTemp	Monitor Only					
DischargeTemp	AI	148	nvoDischargeTemp	Monitor Only					
IntakeTemp	AI	149	nvoIntakeTe,mp	Monitor Only					

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DWG.#: 7199574

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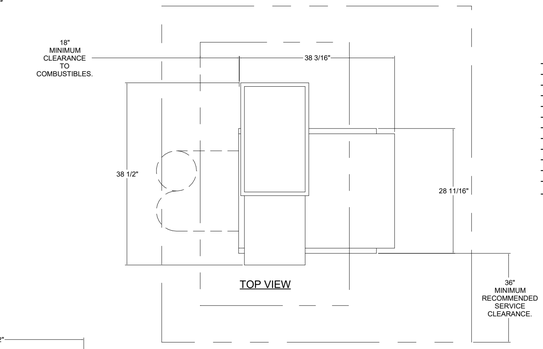
TITLE
HOOD SHEET 6

SHEET NO.
H3.6

1/28/2025 4:00:43 PM

FAN #1 USBI20DD-RM - EXHAUST FAN (KEF-1)

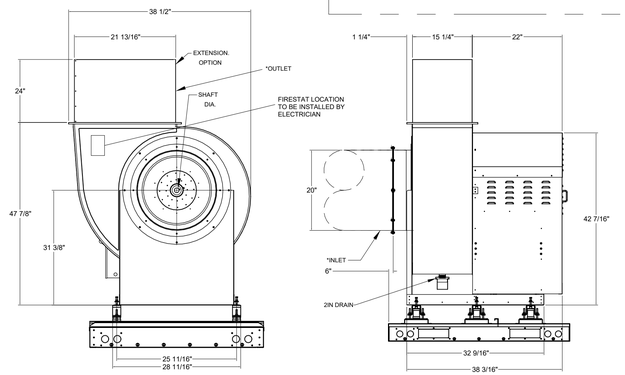


TOP VIEW

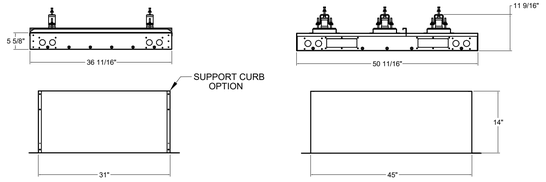
FEATURES:
- CURB MOUNTED FANS WITH VIBRATION ISOLATOR
- FULL PERIMETER CURB
- LIFTING HOOK POCKETS ON ALL SIDES
- UL705
- UL762 & ULC-S645 (RESTAURANT MODEL)
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C)
- HEAT SLINGER
- GREASE CLASSIFICATION TESTING
- 2" DRAIN
- MOTOR WEATHER COVER
- FULLY SEALED SCROLL HOUSING
- SCROLL ACCESS DOOR
- FLANGE 1 1/4" - 11 THRU 20

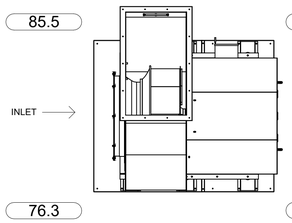
OPTIONS

- UTILITY SET GREASE CUP.
- BI20 - 24" DISCHARGE EXTENSION.
- BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE.
- CURB MOUNTED SLED FOR USBI 20. USED TO MOUNT ON 45" L X 31" W CURB.
- BI20 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT.
- BI20 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 20" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER.
- UTILITY SET - FAN SLED RESTRAINED SPRING VIBRATION ISOLATORS - BI11 THRU BI20 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE (SET OF 6).
- 2 YEAR PARTS WARRANTY.



(6) ISOLATORS = USBI18 THRU 36





CORNER WEIGHTS ARE CALCULATED BASED ON VERTICAL DISCHARGE. SUPPORT DUCT PROPERLY BEFORE FAN TO ENSURE CORNER WEIGHTS ARE NOT AFFECTED.

NORMAL TEMPERATURE TEST DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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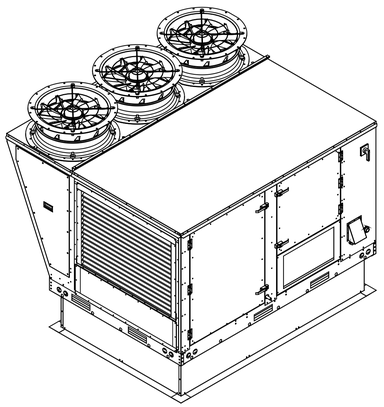
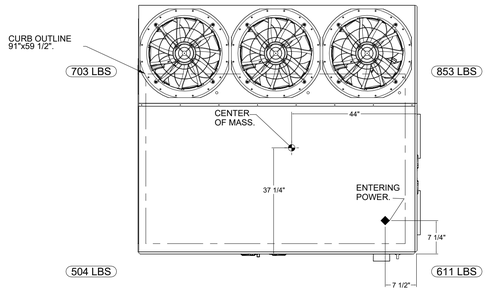
FAN #2 CAS-HVAC3-I.400-18-20T-DOAS - HEATER (RTU-KITCHEN)

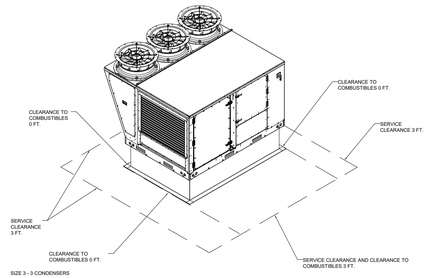
NOTES:
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. ( ) DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

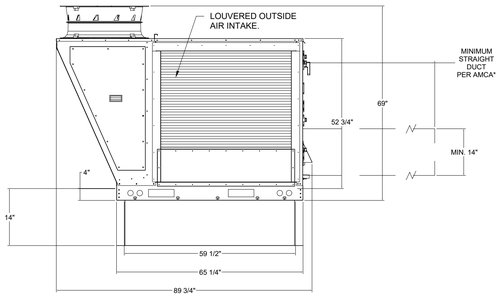
*NOTE: INTEGRAL CO2 MONITORING AND CONTROL CAPABILITIES FOR ALL SPACE MOUNTED THERMOSTATS.

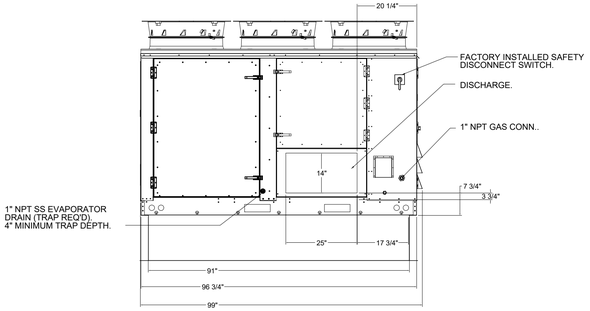
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 25" x 14".

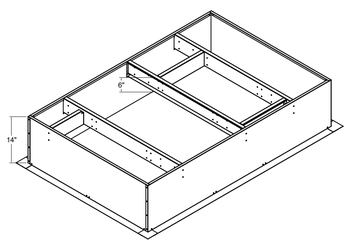


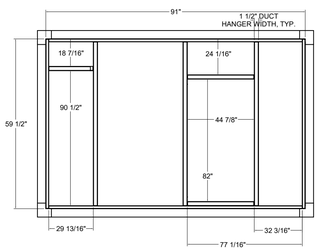




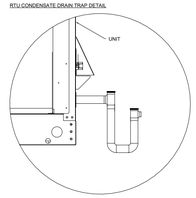


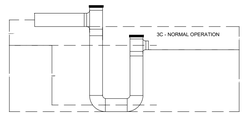






RTU CONDENSATE DRAIN TRAP DETAIL



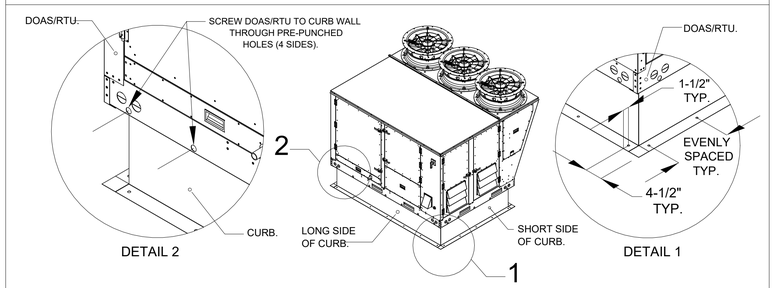


H = (1" FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE) + 1"
J = HALF OF H
L = H + J + PIPE DIAMETER + INSULATION

TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.

2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



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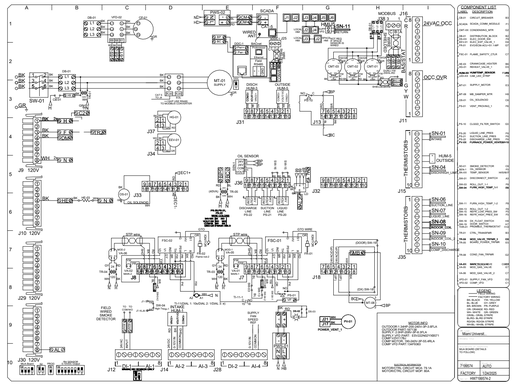

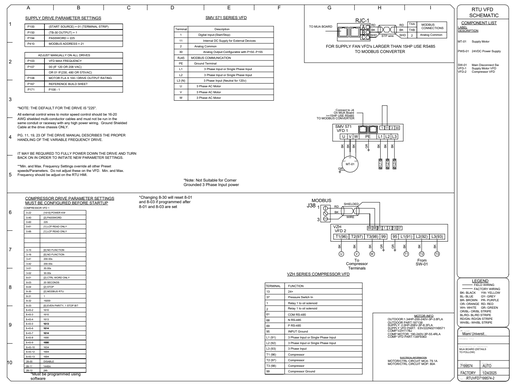

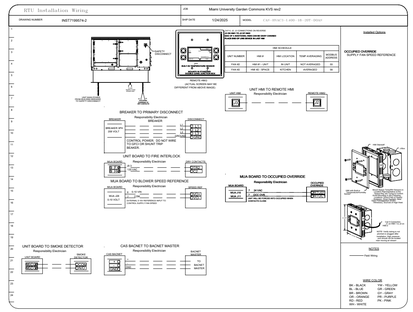

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TITLE
HOOD SHEET 9

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H3.9

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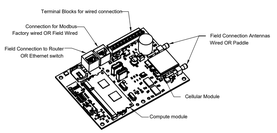
ELECTRICAL PACKAGE - JOB#7199574

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	ϕ	HP	VOLT	FLA
1		SC-311110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	KEF-1	EXHAUST	3	3.000	208	10.2
				HOOD # 2	1 FAN		RTU-Kitchen	SUPPLY	3	2.000	208	8.3



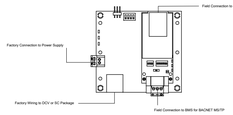
CASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

SC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL



BACNET Interface for DCV and SC Packages

BACNET Interface for Hood Control Panel Specifications:
- Microprocessor-based Hood Controls support communications to an external Building Management System through a BTL listed gateway (BACNET IP and MS/TP).
- The Hood Control Panel communicates real time data from sensors and equipment status to the Building Management System. The Hood Control Panel also allows the Building Management System to control fans, lights and wash cycles.
- The monitoring and controlling points for Hood Smart Controls and Demand Control Ventilation Systems are listed below:

MONITORING AND CONTROL POINTS LIST

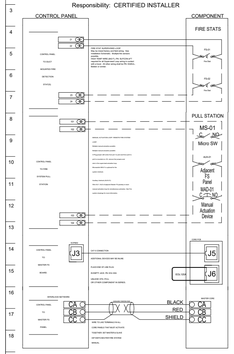
DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Prep Time Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

SC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

JOB NO. 7199574 | SC-311110MA | Miami University Garden Commo... | 1/24/2025 | INSTALL | ECP #1-2

DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, Fan(s) On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER



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DESCRIPTION OF OPERATION:
Fire Sussex eH Table FB - 4-04-24-S

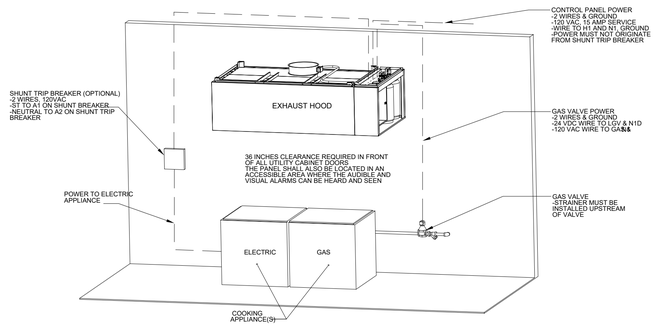
TANK PROTECTION ELECTRICAL DETAIL

02/10/2021 Rev. 2

ELECTRICIAN:
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

FS-1: MASTER

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N1D (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, N1D TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND

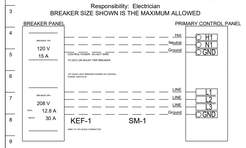


NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

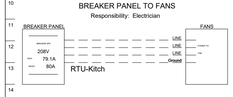
JOB NO. 7199574 | SC-311110MA | Miami University Garden Commo... | 1/24/2025 | INSTALL | ECP #1-2

DESCRIPTION OF OPERATION:
3 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, Fan(s) On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

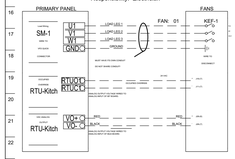
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



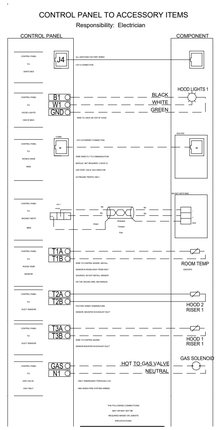
BREAKER PANEL TO FANS
Responsibility: Electrician

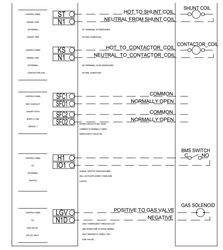


CONTROL PANEL TO FANS
Responsibility: Electrician

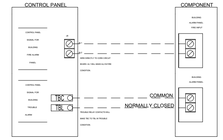


CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician





CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR



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STATE OF OHIO
TIM PRATER
E-51932
REGISTERED PROFESSIONAL ENGINEER
01/29/2025

CAPTIVE-AIRE
www.captiveaire.com
Northern Ohio Mechanical
806 Morrison Rd, Gahanna, OH. 43230 PHONE: (800) 948 - 6945 FAX: 9198004538 EMAIL: reg106@captiveaire.com

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

Miami University Garden Commons KVS rev2
95 North Patterson Avenue,
Oxford, OH, 45056

DATE: 1/24/2025
DWG.#: 7199574
DRAWN BY: TD-REG106
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 10

Miami University
NOURISH
95 N. Patterson Road, Oxford, OH 45056

ISSUE

NO.	DATE	DESCRIPTION
	12/16/2024	CD REVIEW
	01/29/2025	BID & PERMIT

DATE	01/29/2025
JOB NO.	4249.00
DRAWN	MES/LJY
CHECKED	-

TITLE
HOOD SHEET 10

SHEET NO.
H3.10

PRATER ENGINEERING ASSOCIATES
6130 Wilcox Road
Dublin, Ohio 43016
Phone: (614) 766-4896 Fax: (614) 766-2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
			24213

1/29/2025 4:00:48 PM

JOB NO.	SHEET NO.	INSTALL	DESCRIPTION OF OPERATION:
7199574	SC-311110MA		Fire System #1 TANK FS - 4.0/4.0/4.0
	Miami University Garden Commo... 1/24/2025	ECP #1-4	

TANK PROTECTION LOW-VOLTAGE DETAIL

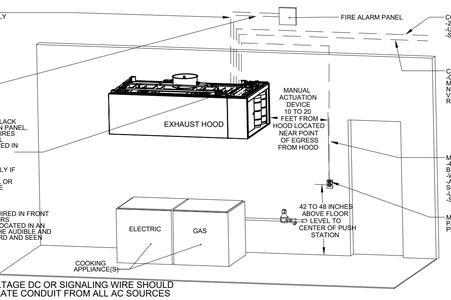
10/01/2023 Rev. 3

FS-1: MASTER

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACT(S).
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

asdasd

ALARM CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF SURFACE MOUNTED, USE COVER EXTENSION ST1-6531B
REMOTE FIRESTAT SENSOR(S)	21 AND 24 22 AND 23	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE FIRE SENSOR WHITE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24 HIGH TEMP CUTOFF 8941B (WHITE) OR 8941C (BLACK) WIRED IN SERIES, SHORT IF RAN
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) CA, TO CORE SYSTEM (2) CA, CORE SYSTEM (1) CB, TO CORE SYSTEM (2) CB. CORE SYSTEM (1) CC, TO CORE SYSTEM (2) CC. USE BELDEN# 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TOK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

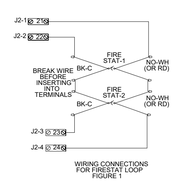
NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO.	SHEET NO.	INSTALL	DESCRIPTION OF OPERATION:
7199574	SC-311110MA		Fire System #1 TANK FS - 4.0/4.0/4.0
	Miami University Garden Commo... 1/24/2025	ECP #1-3	

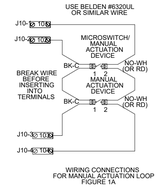
TANK PROTECTION LOW-VOLTAGE FIGURES

10/01/2023 Rev. 17

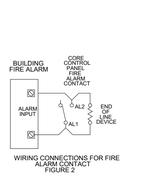
FS-1: MASTER



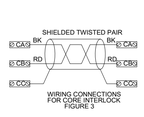
WIRING CONNECTIONS FOR FIRESTAT LOOP FIGURE 1

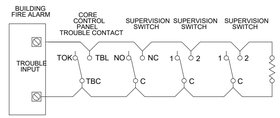


WIRING CONNECTIONS FOR MANUAL ACTUATION LOOP FIGURE 1A



WIRING CONNECTIONS FOR FIRE ALARM CONTACT FIGURE 2

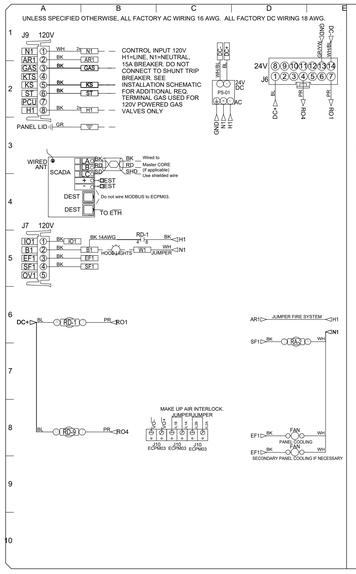


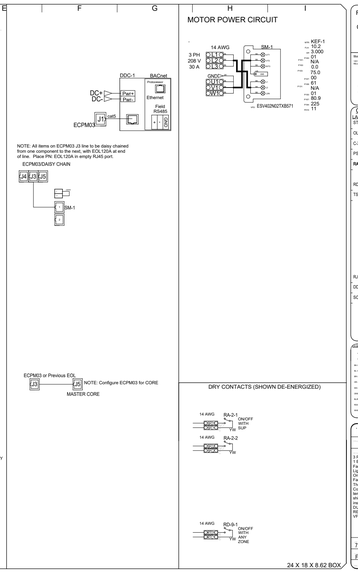


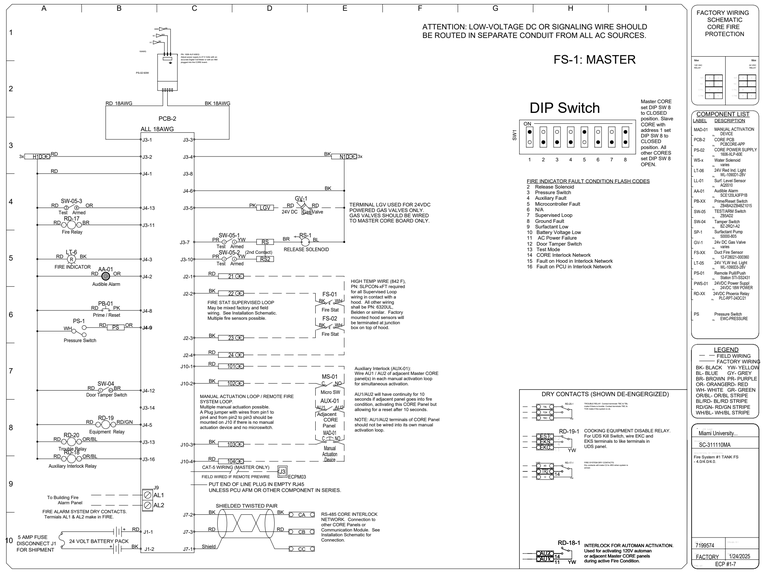
WIRING CONNECTIONS FOR TROUBLE CONTACT FIGURE 4

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES







The Electrical Package, typically MA, is designed to thermostatically activate the exhaust fans for an exhaust hood whenever elevated temperatures are sensed in the exhaust system. This option will meet the requirements of IMC 507.2.1.1 by providing a thermostat(s) mounted in the duct or hood riser to sense increased exhaust temperatures. Controls shall be listed by ETL (UL 508A). The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.

Temperature probes(s) located in the duct riser shall be constructed of Stainless Steel. A room temperature sensor is also provided for field installation in the kitchen space in order to start the fan(s) based on the temperature differential between the room and the exhaust air in the duct, rather than fixed set-points. The system is factory pre-set to activate the fans at 10 deg F° above the room temperature.

Once the duct temperature reaches the activation point, the exhaust fans will be activated. The controls also provide hysteresis to prevent cycling of the fans after the cooking appliances have been turned off and the heat in the exhaust system is reduced. The hysteresis is factory set 2 degrees and will keep the exhaust running until the temperature falls 2 degrees below the activation set point. A hysteresis timer also exists to keep the fans running for at least 30 min after being activated by the temperature rise.

The activation and hysteresis settings may be field adjusted on the board LCD interface located inside the control enclosure to meet application needs. The panel is factory configured to shut down supply fans, turn on the exhaust fans and turn off the hood lights in a fire condition.

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REVISIONS	
DESCRIPTION	DATE:

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STATE OF OHIO
TIM PRATER E-51932
REGISTERED PROFESSIONAL ENGINEER
01/29/2025

Miami University Garden Commons KVS rev2
95 North Patterson Avenue,
Oxford, OH, 45056

DATE: 1/24/2025

DWG.#: 7199574

DRAWN BY: TD-REG106

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 11

Miami University
NOURISH
95 N. Patterson Road, Oxford, OH 45056

ISSUE

NO.	DATE	DESCRIPTION
	12/16/2024	CD REVIEW
	01/29/2025	BID & PERMIT

DATE	01/29/2025
JOB NO.	4249.00
DRAWN	MES/LJY
CHECKED	-

TITLE
HOOD SHEET 11

SHEET NO.
H3.11

PRATER ENGINEERING ASSOCIATES
6130 Wilcox Road
Dublin, Ohio 43016
Phone: (614) 766-4896 Fax: (614) 766-2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
			24213

1/28/2025 4:00:47 PM

DUCTWORK #1 PARTS - JOB#7199574 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
H1-E1	DW20DWRISER-3Z-S	1800				-0.698	9.60	0.00	1	DOUBLE WALL RISER COVER - USED ON 14" INNER RISER, 4" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
H2-E1	DW20DWRISER-3Z-S	1800				-0.698	9.60	0.00	1	DOUBLE WALL RISER COVER - USED ON 14" INNER RISER, 4" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
P1	DW1423DWLT-3Z-S	1800				-0.01	37.32	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT, 23" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P2	DW1490DWASY-3Z-S	1800				-0.1053	40.20	1683.79	1	DOUBLE WALL DUCT - 14" INNER 90 DUCT - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P3	DW1401DWOFFSETASY-3Z-S	1800				-0.003	10.72	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT RISER & 1 DEGREE OFFSET - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P4	DW1447DWAJD-3Z-S	1800				-0.012	109.38	1683.79	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P5	DW1420DWRNDADPEC3ASY21-3Z-S	1800				-0.098	52.03	1683.79	1	DOUBLE WALL DUCT ECCENTRIC - 14" X 20" RND2RND ADAPTER - 21" TALL - 3 LAYERS ZERO CLEARANCE - 20" X 26" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.
P6	DW20DWTEASY-3Z-S	3600		1		-0.2706	78.37	1650.12	1	DOUBLE WALL DUCT - 20" INNER TEE DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P7	DW1420DWRNDADPEC3ASY21-3Z-S	1800				-0.098	52.03	1683.79	1	DOUBLE WALL DUCT ECCENTRIC - 14" X 20" RND2RND ADAPTER - 21" TALL - 3 LAYERS ZERO CLEARANCE - 20" X 26" STAINLESS STEEL OUTER SHELL. STANDARD ADAPTER.
P8	DW1447DWAJD-3Z-S	1800				-0.02	109.38	1683.79	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P9	DW2024SADKIT						8.01		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 20" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2024SAD, & HARDWARE BAG 4.
P10	DW2024SADKIT						8.01		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 20" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2024SAD, & HARDWARE BAG 4.
P11	DW2024SADKIT						8.01		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 20" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2024SAD, & HARDWARE BAG 4.
P12	DW1490DWASY-3Z-S	1800				-0.1134	40.20	1683.79	1	DOUBLE WALL DUCT - 14" INNER 90 DUCT - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P13 ASSEMBLED W/P19	DW14DWTEASY-3Z-S	1800		1		-0.0353	48.60	1683.79	1	DOUBLE WALL DUCT - 14" INNER TEE DUCT - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P14	DW1447DWAJD-3Z-S	1800				-0.011	109.38	1683.79	1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P15	DW2024SADKIT						8.01		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 20" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2024SAD, & HARDWARE BAG 4.
P16	DW1401DWOFFSETASY-3Z-S	1800				-0.003	10.72	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT RISER & 1 DEGREE OFFSET - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P17	DW1490DWASY-3Z-S	1800				-0.1053	40.20	1683.79	1	DOUBLE WALL DUCT - 14" INNER 90 DUCT - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P18	DW1423DWLT-3Z-S	1800				-0.01	37.32	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT, 23" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P19 ASSEMBLED W/P13 O=T	DW14DWACCDOORCOV-3Z-S						21.24		1	DOUBLE WALL DUCT - 14" INNER ACCESS DOOR & 20" ACCESS DOOR COVER WITH CLAMPS - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER SHELL.
P20 ASSEMBLED W/P53	DW20DWTEASY-3Z-S	3600		1		-0.007	78.37	1650.12	1	DOUBLE WALL DUCT - 20" INNER TEE DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P21	DW2023DWLT-3Z-S	3600				-0.005	50.30	1650.12	1	DOUBLE WALL DUCT - 20" INNER DUCT, 23" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P22	DW2047DWAJD-3Z-S	3600				-0.006	144.57	1650.12	1	DOUBLE WALL ADJUSTABLE DUCT - 20" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P23	DW2090DWASY-3Z-S	3600				-0.148	66.28	1650.12	1	DOUBLE WALL DUCT - 20" INNER 90 DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P24	DW2047DWLT-3Z-S	3600				-0.01	103.73	1650.12	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P25	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P26 ASSEMBLED W/P27	DW20DWTEASY-3Z-S	3600		1		-0.007	78.37	1650.12	1	DOUBLE WALL DUCT - 20" INNER TEE DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P27 ASSEMBLED W/P26 O=T	DW20DWACCDOORCOV-3Z-S						32.56		1	DOUBLE WALL DUCT - 20" INNER ACCESS DOOR & 26" ACCESS DOOR COVER WITH CLAMPS - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P28	DW2047DWLT-3Z-S	3600				-0.01	103.73	1650.12	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P29	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P30	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P31	DW2090DWASY-3Z-S	3600				-0.1056	66.28	1650.12	1	DOUBLE WALL DUCT - 20" INNER 90 DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P32	DW2047DWLT-3Z-S	3600				-0.01	103.73	1650.12	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P33 ASSEMBLED W/P34	DW20DWTEASY-3Z-S	3600		1		-0.007	78.37	1650.12	1	DOUBLE WALL DUCT - 20" INNER TEE DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P34 ASSEMBLED W/P33 O=T	DW20DWACCDOORCOV-3Z-S						32.56		1	DOUBLE WALL DUCT - 20" INNER ACCESS DOOR & 26" ACCESS DOOR COVER WITH CLAMPS - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P35	DW2047DWLT-3Z-S	3600				-0.01	103.73	1650.12	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P36	DW2045DWASY-3Z-S	3600				-0.0363	37.66	1650.12	1	DOUBLE WALL DUCT - 20" INNER 45 DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P37	DW2047DWLT-3Z-S	3600				-0.01	103.73	1650.12	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P38	DW2029DWLT-3Z-S	3600				-0.0062	66.97	1650.12	1	DOUBLE WALL DUCT - 20" INNER DUCT, 29" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P39	DW2027DWAJD-3Z-S	3600				-0.0039	81.21	1650.12	1	DOUBLE WALL ADJUSTABLE DUCT - 20" INNER DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 24.5" / ADJUSTMENT = 13.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P40	DW2045DWASY-3Z-S	3600				-0.035	37.66	1650.12	1	DOUBLE WALL DUCT - 20" INNER 45 DUCT - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P41	DW2047DWLT-3Z-S	3600				-0.01	103.73	1650.12	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P42	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P43	DW2047DWLT-3Z-S	3600				-0.01	103.73	1650.12	1	DOUBLE WALL DUCT - 20" INNER DUCT, 47" LONG - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
P44	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.

DUCTWORK #1 PARTS - JOB#7199574 DOUBLE WALL

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P45	DW2002DWOFFSETASY-3Z-S	3600				-0.002	19.42	1650.12	1	DOUBLE WALL DUCT - 20" INNER DUCT RISER & 2 DEGREE OFFSET - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
SYSTEM AT P45						-1.8035	0.00			
P46	DW26HFIRESTOPKIT						134.10		1	DUCT - 26" DOUBLE WALL SHELL - HORIZONTAL FIRE STOP KIT - 35" SQUARE USED ON THROUGH PENETRATIONS - INCLUDES FIRE PLATES, HARDWARE, INSULATION, CLOSURE BANDS & TRIPLE S INTUMESCENT.
P47	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P48	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P49	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P50	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P51	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P52	DW2630SADKIT						10.46		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 26" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW2630SAD, & HARDWARE BAG 4.
P53 ASSEMBLED W/P20 O=T	DW20DWACCDOORCOV-3Z-S						32.56		1	DOUBLE WALL DUCT - 20" INNER ACCESS DOOR & 26" ACCESS DOOR COVER WITH CLAMPS - 3 LAYERS ZERO CLEARANCE - 26" STAINLESS STEEL OUTER SHELL.
RC1	DW20DWRISER-3Z-S						9.60		1	DOUBLE WALL RISER COVER - USED ON 14" INNER RISER, 4" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
RC2	DW20DWRISER-3Z-S						9.60		1	DOUBLE WALL RISER COVER - USED ON 14" INNER RISER, 4" LONG - 3 LAYERS ZERO CLEARANCE - 20" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMPS FOR INNER & OUTER CONNECTIONS.
	3M-2000PLUS						0.80		11	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW14DWCLASY-3Z-S						6.54		5	DUCT - 14" DUCT - 20" DOUBLE "V" CLAMP - 3Z INSULATION & SINGLE "V" CLAMP INCLUDED - ZERO CLEARANCE.
	DW20DWCLASY-3Z-S						8.50		18	DUCT - 20" DUCT - 26" DOUBLE "V" CLAMP - 3Z INSULATION & SINGLE "V" CLAMP INCLUDED - ZERO CLEARANCE.
TOTAL WEIGHT							2940.44			

REVISIONS

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DATE: 1/28/2025

DWG.#:
7199574

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MASTER DRAWING

SHEET NO.
12

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TITLE
HOOD SHEET 12

SHEET NO.
H3.12

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DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

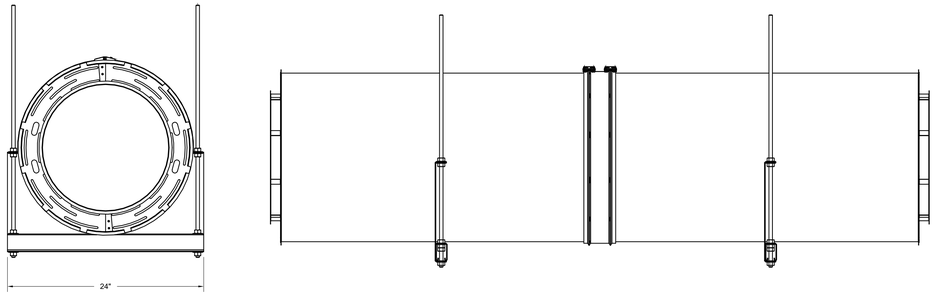
HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"-16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5"-24")	10'	24'	24'
3Z (26" -36")	10'	20'	20'

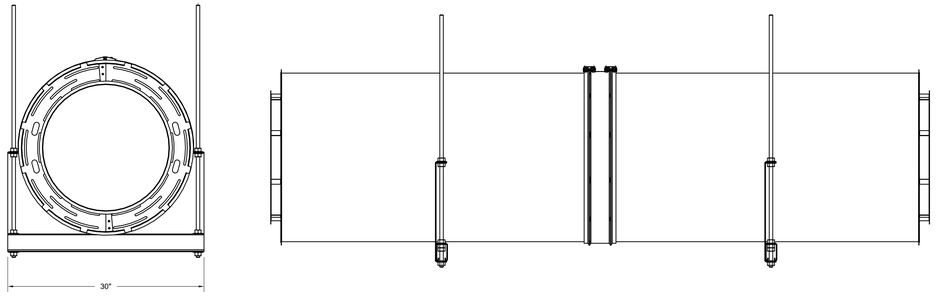
DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

SUPPORT SYSTEM DETAILS #1

DW2024SADKIT - HORIZONTAL SUPPORTS



DW2630SADKIT - HORIZONTAL SUPPORTS



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H3.13

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FIRST FLOOR ELECTRICAL DEMO PLAN AREA A

SCALE: 1/4" = 1'-0"

CODED NOTES

1. DISCONNECT AND RELOCATE THE EXISTING LIGHTING CONTROL DEVICE TO THE NEW LOCATION SHOWN ON SHEET E1.1. REMOVE ASSOCIATED WIRING BACK TO SOURCE OR NEXT UPSTREAM DEVICE - PROVIDE NEW ZONE OF CONTROL AS SHOWN.
2. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED OCCUPANCY SENSOR - TURN DEVICE OVER TO OWNER FOR ATTIC STOCK. REMOVE ASSOCIATED BRANCH CIRCUIT/WIRING/CABLING BACK TO SOURCE OR NEXT UPSTREAM DEVICE.
3. DISCONNECT AND TEMPORARILY SUSPEND EXISTING CEILING MOUNTED RECEPTACLE TO ALLOW FOR THE INSTALLATION OF A NEW CEILING SYSTEM - REINSTALL RECEPTACLE WITHIN NEW CEILING SYSTEM.
4. DISCONNECT AND REMOVE EXISTING WIRING DEVICE - REMOVE ASSOCIATED BRANCH CIRCUIT BACK TO SOURCE OR NEXT UPSTREAM DEVICE.
5. DISCONNECT AND REMOVE EXISTING DATA/COMMUNICATIONS DEVICE - REMOVE ASSOCIATED LOW VOLTAGE CABLING BACK TO SOURCE OR NEXT UPSTREAM DEVICE.
6. DISCONNECT AND REMOVE EXISTING DEVICE INSTALLED WITHIN EXISTING CASEWORK - REMOVE ASSOCIATED BRANCH CIRCUIT, LOW VOLTAGE CABLING, AND CONDUIT BACK TO SOURCE OR NEXT UPSTREAM DEVICE.
7. DISCONNECT AND REMOVE EXISTING INTERIOR DOOR HANDICAP PUSHBUTTON - REMOVE ASSOCIATED WIRING BACK TO SOURCE OR NEXT UPSTREAM DEVICE.
8. DISCONNECT AND RELOCATE THE EXISTING EXIT SIGN TO THE NEW LOCATION SHOWN ON SHEET E1.1 - MAINTAIN AND PROTECT EXISTING WIRING FOR EXTENSION TO NEW LOCATION.
9. DISCONNECT AND REMOVE THE EXISTING LIGHTING FIXTURE - REMOVE ASSOCIATED ZONE OF CONTROL BACK TO SOURCE. TURN LIGHTING FIXTURE OVER TO OWNER AFTER REMOVAL.
10. DISCONNECT AND RELOCATE THE EXISTING LIGHTING FIXTURE TO THE NEW LOCATION SHOWN ON SHEET E1.1 - MAINTAIN AND PROTECT EXISTING CONTROLLED BRANCH CIRCUIT FOR EXTENSION TO THE NEW LOCATION.
11. DISCONNECT AND RELOCATE THE EXISTING LIGHTING CONTROL DEVICE TO THE NEW LOCATION SHOWN ON SHEET E1.1 - MAINTAIN AND PROTECT EXISTING CONTROL ZONE/CIRCUIT FOR EXTENSION TO THE NEW LOCATION.
12. DISCONNECT AND REMOVE THE EXISTING EMERGENCY LIGHTING FIXTURE - REMOVE ASSOCIATED ZONE OF CONTROL BACK TO SOURCE. TURN LIGHTING FIXTURE OVER TO OWNER AFTER REMOVAL. MAINTAIN AND PROTECT ASSOCIATED EXISTING GENERATOR TRANSFER DEVICE (GTD) FOR REUSE IN NEW WORK PHASE.
13. RELOCATE THE EXISTING FIRE ALARM DEVICE TO THE NEW LOCATION SHOWN ON SHEET E2.1 - EXTEND THE EXISTING FIRE ALARM WIRING TO THE NEW LOCATION, DO NOT SPLICE FIRE ALARM WIRING.
14. EXISTING SLURRY PUMP AND GRINDER ASSOCIATED WITH FOOD DIGESTER TO BE REMOVED - DISCONNECT AND REMOVE EXISTING POWER SUPPLY SAFETY DISCONNECT BOX, AND ASSOCIATED BRANCH CIRCUIT'S AND CONDUIT BACK TO SOURCE.
15. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED CAMERA - REMOVE ASSOCIATED LOW VOLTAGE CABLING BACK TO SOURCE OR NEXT UPSTREAM DEVICE. TURN DEVICE OVER TO OWNER AFTER REMOVAL.
16. EXISTING FOOD DIGESTER TO BE REMOVED - DISCONNECT AND REMOVE EXISTING POWER SUPPLY SAFETY DISCONNECT BOX, AND ASSOCIATED BRANCH CIRCUIT'S AND CONDUIT BACK TO SOURCE.
17. DISCONNECT AND RELOCATE THE EXISTING WIRING DEVICE TO THE NEW LOCATION SHOWN ON SHEET E2.1 - MAINTAIN AND PROTECT THE EXISTING BRANCH CIRCUIT FOR EXTENSION TO NEW LOCATION.
18. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE - MAINTAIN AND PROTECT EXISTING CONTROL ZONE/BRANCH CIRCUIT FOR CONNECTION TO NEW LIGHTING FIXTURE IN EXISTING LOCATION. TURN DEVICE OVER TO OWNER AFTER REMOVAL.
19. DISCONNECT AND RELOCATE THE EXISTING CEILING MOUNTED OCCUPANCY SENSOR TO THE NEW LOCATION SHOWN ON SHEET E1.1 - MAINTAIN AND PROTECT EXISTING CONTROL ZONE/WIRING FOR EXTENSION TO THE NEW LOCATION.
20. EXISTING EXTERIOR DOOR HANDICAP PUSHBUTTON TO BE REPLACED - DISCONNECT EXISTING WIRING AND MAKE SAFE TO ALLOW FOR THE INSTALLATION OF A HANDICAP PUSHBUTTON. WIRE COMPLETE AFTER INSTALLATION OF NEW HANDICAP PUSHBUTTON.
21. DISCONNECT AND RELOCATE THE EXISTING EXTERIOR DOOR HANDICAP PUSHBUTTON BACKBOX TO THE NEW LOCATION SHOWN - MAINTAIN AND PROTECT EXISTING WIRING FOR EXTENSION.
22. DISCONNECT AND RELOCATE THE EXISTING LIGHTING FIXTURE TO THE NEW LOCATION SHOWN ON SHEET E1.1 - REMOVE ASSOCIATED ZONE OF CONTROL BACK TO SOURCE AND PROVIDE NEW AS SHOWN.

GENERAL NOTES

A. WIRING DEVICES WITH SUBSCRIPT "E" ARE EXISTING TO REMAIN AND SHALL BE PROTECTED DURING CONSTRUCTION - UPON COMPLETION OF CONSTRUCTION ALL EXISTING TO REMAIN DEVICES SHALL BE OPERATIONAL.

B. UNLESS NOTED OTHERWISE DISCONNECT AND REMOVE ALL DEVICES SHOWN ON DEMOLITION PLAN. REMOVE THE DEVICE, WIRING, AND CONDUIT BACK TO THE SOURCE OR NEXT UPSTREAM JUNCTION BOX. CIRCUITRY TO THE EXISTING TO REMAIN DEVICES OR LIGHTING FIXTURES CONNECTED TO DEVICES TO BE REMOVED SHALL BE MAINTAINED AND PROTECTED. WHERE DEVICES ARE REMOVED FROM EXISTING TO REMAIN CIRCUITS THIS CONTRACTOR SHALL EXTEND WIRING TO THE REMAINING DEVICES OR LIGHTING FIXTURES TO COMPLETE THE CIRCUIT. UPON COMPLETION OF THE PROJECT ALL DEVICES TO REMAIN SHALL BE LEFT OPERATIONAL.

C. WHERE TELECOMMUNICATIONS DEVICES ARE SHOWN TO BE REMOVED, REMOVE ALL LOW VOLTAGE CABLING BACK TO THE SOURCE.

D. WHERE DEVICES ARE SHOWN TO BE REMOVED ON EXISTING WALLS COORDINATE PATCH AND REPAIR WITH GENERAL TRADES CONTRACTOR. COVER PLATES SHALL NOT BE ACCEPTABLE.

E. COORDINATE FINAL PATCH AND REPAIR OF FLOOR PENETRATIONS DUE TO REMOVAL OF POKE-THRU'S, CONDUIT, ETC... ALL PENETRATIONS SHALL BE INFILLED FLUSH WITH EXISTING FLOOR SLAB FOR NEW FLOORING FINISH.

F. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR WALLS AND CEILINGS TO BE REMOVED.

G. REFER TO HVAC AND PLUMBING DRAWINGS FOR EQUIPMENT TO BE REMOVED BY OTHER TRADES. DISCONNECT & REMOVE ELECTRICAL CONNECTIONS TO EQUIPMENT DESIGNATED TO BE REMOVED BY OTHER TRADES.

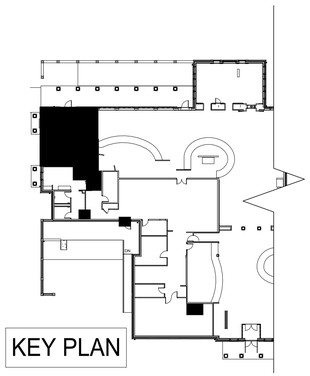
H. MAINTAIN AND PROTECT EXISTING FIRE ALARM DEVICES AND EQUIPMENT UNLESS NOTED OTHERWISE. EXISTING DEVICES DESIGNATED FOR REMOVAL SHALL BE SALVAGED FOR REUSE IN NEW WORK OR TURNED OVER TO THE OWNER.

I. MAINTAIN AND PROTECT EXISTING LIGHTING AND EMERGENCY LIGHTING BRANCH CIRCUIT HOMERUNS THROUGHOUT AREA OF WORK DURING DEMOLITION FOR USE IN NEW WORK PHASE.

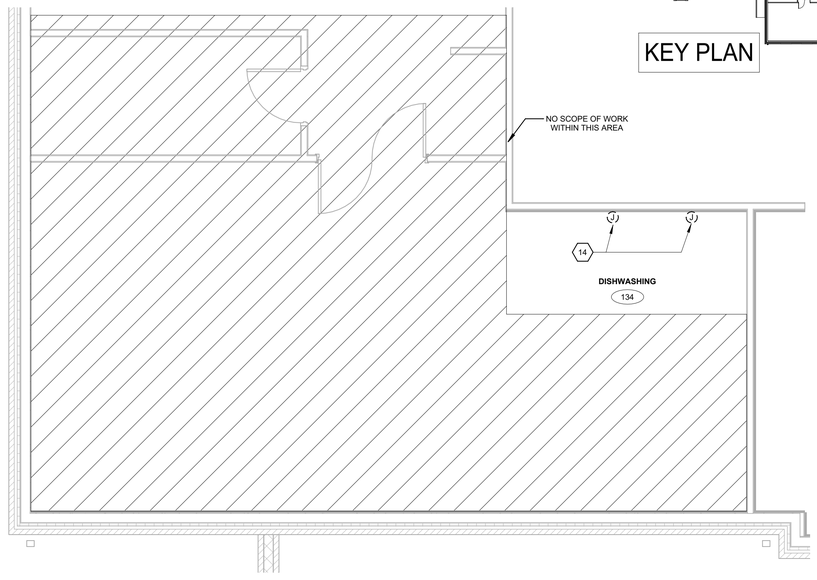
TELECOMMUNICATIONS NOTES

A. DEMOLITION OF A/V, DATA AND PHONE STRUCTURE CABLING SHALL BE PERFORMED BY THE UNIVERSITY'S WARRANTY PROVIDING CONTRACTOR (DIV 27 ONLY). STRUCTURE CABLING CONTRACTOR WILL DISCONNECT AND REMOVE CABLE BACK TO THE SOURCE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO REMOVE BACK-BOXES AND CONDUITS BACK TO SOURCE. THE NETWORK JACKS ARE LIVE AND SHALL BE UNPATCHED AND A CABLING DEMO DATABASE SHALL BE PROVIDED.

B. A/V AND COMMUNICATION EQUIPMENT OR DEVICES IE. WAP, PROJECTOR, ETC TO BE REMOVED BY THE UNIVERSITY.



KEY PLAN



FIRST FLOOR ELECTRICAL DEMO PLAN AREA B

SCALE: 1/4" = 1'-0"

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TITLE
FIRST FLOOR ELECTRICAL DEMO PLAN

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ED1.1

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LIGHTING NOTES

A. EXIT SIGNS ARE TO BE CONNECTED AHEAD OF ANY SWITCHING AND/OR CONTROLS FOR 24 HOUR OPERATION. EMERGENCY LIGHTING SHALL BE PROVIDED WITH A GENERATOR TRANSFER DEVICE TO ILLUMINATE TO FULL OUTPUT UPON LOSS OF NORMAL POWER, AS INDICATED ON THE DRAWINGS. INSTALL MINIMUM #10 AWG SIZE CONDUCTORS TO ALL EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES.

B. FIXTURES SCHEDULES WITH MULTIPLE BALLASTS FOR MULTILEVEL SWITCHING SHOULD BE WIRED ACCORDINGLY. PROVIDE APPROPRIATE WIRING AS NEEDED FOR FIXTURES CONTROLLED VIA RELAY SYSTEM.

C. LIGHTING CIRCUITS SHOWN WITH MULTIPLE HOMERUNS REQUIRE MULTIPLE BRANCH CIRCUIT FEEDS AS NOTED.

D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES. COORDINATE WITH GENERAL TRADES AND MECHANICAL CONTRACTORS IN ADVANCE OF INSTALLATION TO AVOID CONFLICTS OF SUFFICIENT SPACE ABOVE CEILINGS FOR RECESSED LIGHTING FIXTURES.

E. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS, AS WELL AS LIGHTING FIXTURE SCHEDULE, FOR MOUNTING HEIGHTS.

F. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INSTALLATION INFORMATION.

G. PROVIDE SAFETY CABLE TO EACH LIGHTING FIXTURE FROM STRUCTURE.

H. WORK IS TO COMPLY WITH THE OHIO BUILDING CODE, LOCAL CITY AND COUNTY CODES, 2023 NATIONAL ELECTRICAL CODE, INTERNATIONAL CODE COUNCIL (ICC), AND THE NATIONAL BOARD OF FIRE UNDERWRITERS.

I. COORDINATE AND SCHEDULE WORK WITH OTHER TRADES.

J. ALL EXISTING INFORMATION IS TAKEN FROM EXISTING DRAWINGS (WHERE APPLICABLE) AND FIELD SURVEY PRIOR TO DESIGN. VERIFY EXISTING ITEMS SHOWN ON PLANS AND NOTIFY ARCHITECT PRIOR TO BIDDING ITEMS IF DEVIATIONS ARE DISCOVERED.

K. NO SHARED NEUTRALS - EACH NEW CIRCUIT SHALL HAVE DEDICATED NEUTRAL CONDUCTOR.

L. A NEUTRAL CONDUCTOR SHALL BE INSTALLED THRU TO ALL LIGHT SWITCHES.

M. EMERGENCY AND EXIT LUMINARIES SHALL HAVE CIRCUITING PROVIDED IN A SEPARATE RACEWAY FROM THAT OF ANY NORMAL POWER DEVICE.

N. "E" INDICATES THAT OBJECT IS TO BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

FIRE ALARM NOTES

A. THE FIRE ALARM DRAWINGS ARE SCHEMATIC IN DESIGN. THE ELECTRICAL CONTRACTOR SHALL FURNISH, WITHOUT EXTRA CHARGE, A COMPLETE DESIGN BY A NICET CERTIFIED FIRE ALARM DESIGNER, ANY ADDITIONAL MATERIALS AND LABOR THAT MAY BE REQUIRED FOR COMPLIANCE WITH ALL GOVERNING LAWS, RULES, AND REGULATIONS, EVEN THOUGH THE WORK IS NOT MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. NOTHING IN THE SPECIFICATIONS OR DRAWINGS SHALL BE DEEMED AS AUTHORITY TO VIOLATE ANY GOVERNING CODE.

B. FURNISH & INSTALL A COMPLETE CLASS B, ELECTRICALLY OPERATED AND SUPERVISED CLOSED CIRCUIT FIRE ALARM SYSTEM.

C. THE MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE BEST PRACTICES OF THE ELECTRICAL INDUSTRY AND SHALL CONFORM TO THE STANDARDS OF:
1. NATIONAL ELECTRIC CODE
2. NATIONAL ELECTRIC SAFETY CODE
3. APPLICABLE STATE AND LOCAL REGULATIONS
4. NATIONAL FIRE PROTECTION ASSOCIATION
5. UL LISTED

D. THE ELECTRICAL CONTRACTOR AND THE MANUFACTURER SHALL CHECK OUT THE SYSTEM FOR ANNUNCIATION, ALARM SIGNALS, DETECTOR AND PANEL OPERATION.

E. THE ELECTRICAL CONTRACTOR AND THE MANUFACTURER SHALL REVIEW THE SYSTEM OPERATION WITH THE OWNER TO ASSURE THEIR COMPLETE UNDERSTANDING OF THE SYSTEM.

F. AT THE COMPLETION OF THE PROJECT, SUPPLY SIX SETS OF AS-BUILT PLANS AND WIRING DIAGRAMS TO THE OWNER SHOWING EACH DEVICE AS IT WAS ACTUALLY WIRED.

G. ALL WIRING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

H. ALL CIRCUITS (INCLUDING SUPERVISING LEG OF POWER) SHALL BE UNDER CONSTANT ELECTRICAL SUPERVISION SO THAT SHOULD IT FAIL THE TROUBLE SIGNAL SHALL RING.

I. FURNISH AND INSTALL ALL CIRCUITRY TO SHUT DOWN AIR HANDLING UNITS ON GENERAL ALARM.

J. SPEAKER/STROBES AND STROBE ONLY UNITS SHALL MEET ALL ADA REQUIREMENTS AND BE FLUSH MOUNTED.

K. PROVIDE FIRE ALARM INTERLOCK WITH EXTERIOR DOOR CONTROLS TO RELEASE DOORS UPON FIRE ALARM ACTIVATION. REFER TO ACCESS CONTROL DRAWING FOR DETAIL LOCATIONS.

L. PROVIDE FIRE ALARM CONTROL RELAYS TO RELEASE ACCESS CONTROLLED DOORS AND DELAYED EGRESS DOOR DEVICE UPON GENERAL FIRE ALARM.

GENERAL NOTES

A. DESIGN DRAWINGS ARE SCHEMATIC IN NATURE. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND/OR AWARD OF CONTRACT TO OBSERVE AND NOTE EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR MODIFICATIONS DUE TO EXISTING CONDITIONS.

B. THIS CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER, OWNER'S REPRESENTATIVE, OR THE OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN, AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER, OWNER'S REPRESENTATIVE, OR THE OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT THIS CONTRACTORS COST.

C. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES, AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK TO BE INSTALLED IN STRICT ACCORDANCE WITH ALL REVIEW, INSPECTION AND/OR APPROVAL AUTHORITIES INFORMATION INDICATED BY THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER, OWNER'S REPRESENTATIVE, OR THIS OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

D. REFER TO ARCHITECTURAL DOCUMENTATION FOR ADDITIONAL SCOPE/INFORMATION REGARDING WORK, INCLUDING IDENTIFICATION OF AREAS AND ITEMS INVOLVED, AS WELL AS INFORMATION OF BOTH A GENERAL AND SPECIFIC NATURE.

E. PRIOR TO SUBMITTING BID, THIS CONTRACTOR SHALL EXAMINE THE PROJECT CONTRACT DOCUMENTS TO DEVELOP A COMPLETE UNDERSTANDING OF THE SCOPE OF WORK. FAILURE TO REVIEW ALL CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM ALL WORK REQUIRED. THE CONTRACTOR SHALL, UPON REVIEW OF THE CONTRACT DOCUMENTS, ADVISE THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES WHICH WILL AFFECT THE EXECUTION OF HIS WORK.

F. ALL INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

G. ALL WIRING INCLUDING FIRE ALARM SHALL BE IN CONDUIT. CABLING IN OPEN WIRING, NON-PLENUM CONCEALED SPACES SHALL BE SUPPORTED BY J-HOOKS.

H. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF DEVICES.

I. ALL ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT MOUNTING LOCATIONS SHALL BE FIELD COORDINATED TO AVOID ENCROACHMENT OF OPERATION AND/OR ACCESS TO EQUIPMENT FROM OTHER TRADES. WHEN EQUIPMENT IS SPECIFIED TO BE MOUNTED ONTO THE SURFACE OF ANOTHER DISCIPLINE'S EQUIPMENT, IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE APPROPRIATE MOUNTING LOCATION WITH THAT CONTRACTOR.

J. ALL OPENINGS MADE IN WALLS, PARTITIONS, ETC TO ACCOMMODATE WORK PERFORMED BY THE ELECTRICAL CONTRACTOR SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE APPROPRIATELY GROUTED OR SEALED.

K. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

L. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.

M. ANY PORTION OF BUILDING (CEILING TILES, WALLS, ETC) REMOVED TO ACCOMMODATE THE INSTALLATION OF ANY ELECTRICAL DEVICE, EQUIPMENT, ETC. SHALL BE REPLACED/ RE-INSTALLED BY A QUALIFIED CONTRACTOR OF THE APPROPRIATE TRADE AT THE ELECTRICAL CONTRACTORS EXPENSE.

N. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE EXACT EQUIPMENT LOCATIONS WITH OTHER TRADES. EQUIPMENT LOCATIONS SHOWN ON ELECTRICAL PLANS ARE DIAGRAMMATICAL ONLY AND MAY NOT BE THE EXACT LOCATION.

O. CIRCUIT IDENTIFICATION NUMBERS BESIDE ELECTRICAL DEVICES AND CONNECTION POINTS SHOWN ON PLANS, CORRESPOND TO AN OVERCURRENT DEVICE IN THE DESIGNATED PANEL.

P. ALL CONDUIT SHALL BE CONCEALED IN WALLS, PARTITIONS, ABOVE CEILINGS, AND/OR IN FLOOR SLABS, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT ROUTED IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE ROUTED EXPOSED.

Q. ALL DISCONNECTING MEANS SHALL BE MARKED TO INDICATES SPECIFIC PURPOSE IN ACCORDANCE WITH THE REQUIREMENTS OF N.E.C. 110.22.

R. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES FOR ALL LIGHTING AND APPLIANCE PANELBOARDS. PROVIDE CIRCUIT IDENTIFICATION LABELS AT EACH SWITCH AND/OR CIRCUIT BREAKER IN SWITCHBOARDS. DIRECTORIES AND IDENTIFICATION SHALL COMPLY WITH N.E.C. 408.4. EVERY CIRCUIT SHALL BE IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE AND USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHER CIRCUITS.

S. WORK IS TO COMPLY WITH THE OHIO BUILDING CODE, LOCAL CITY AND COUNTY CODES, 2023 NATIONAL ELECTRICAL CODE, INTERNATIONAL CODE COUNCIL (ICC), AND THE NATIONAL BOARD OF FIRE UNDERWRITERS.

T. COORDINATE AND SCHEDULE WORK WITH OTHER TRADES.

U. IT IS REQUIRED TO VISIT THE SITE AND BECOME FULLY INFORMED OF EXISTING CONDITIONS PRIOR TO BID AND CONSTRUCTION. NOTIFY ARCHITECT OF ANY ISSUES.

V. DRAWINGS ARE DIAGRAMMATIC. DETERMINE ACTUAL CONDITIONS (INCLUDING PRECISE LOCATIONS OF EXISTING DEVICES) OF WORK AT THE SITE BY FIELD MEASUREMENT PRIOR TO BID.

W. INSTALL UL LISTED FIRE STOP WHEN PENETRATING FIRE RATED WALLS AND FLOORS TO MAINTAIN THE RATING OF THE WALLS AND FLOORS.

DEMOLITION NOTES

A. UNLESS OTHERWISE NOTED, ALL EXISTING LIGHT FIXTURES AND LIGHT SWITCHES SHALL BE REMOVED.

B. THE EXISTING PANELS INDICATED ON THE PLANS ARE EXISTING TO REMAIN. PANELS THAT ARE INDICATED TO REMOVED ON THE ELECTRICAL ONE-LINE SHALL BE REMOVED AND THE RATED WALLS SHALL BE REPAIRED WHERE INSTALLED IN RATED CORRIDOR WALLS. COORDINATE WITH ARCHITECT.

C. THE EXISTING UNIT SUBSTATION IS EXISTING TO REMAIN.

D. THE FIRE ALARM SYSTEM IS EXISTING TO REMAIN. NEW DEVICES SHALL BE PROVIDED.

E. ALL NEW DATA CABLING SHALL BE CAT 6.

F. REMOVE EXISTING SURFACE MOUNTED RACEWAY, DATA OUTLET BOXES, AND RECEPTACLES ON WALLS THAT ARE TO BE DEMOLISHED.

ELECTRICAL ABBREVIATIONS

AWG	AMERICAN WIRE GAUGE
A	AMPERE
AB	ABOVE
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BAS	BUILDING AUTOMATION SYSTEM
BD	BOARD
BRKR	BREAKER
BLDG	BUILDING
BTM	BOTTOM
CAB	CABINET
CLG	CEILING
℄	CENTERLINE
CIRC	CIRCUIT
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTION / CONNECTOR
CONTR	CONTRACTOR
CONT	CONTROL
COORD	COORDINATE
C/T	CURRENT TRANSFORMER
C/C	CENTER TO CENTER
DDC	DIRECT DIGITAL CONTROL
DTL	DETAIL
DIAG	DIAGRAM
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DR	DOOR
DWGS	DRAWINGS
EA	EACH
ELEC	ELECTRICAL
ELEV	ELEVATION/ELEVATOR
EMERG	EMERGENCY
EQUIP	EQUIPMENT
EXH	EXHAUST
EXIST	EXISTING
FDR	FEEDER
FA	FIRE ALARM
FIX	FIXTURE
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FRACT	FRACTIONAL
FURN	FURNISH
FSBL	FUSIBLE
GEN	GENERAL
GF	GROUND-FAULT
GRD	GROUND
HTG	HEATING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IC	INTERCOM
JUNC	JUNCTION
LS	LIFE SAFETY
K.E. CONTR.	KITCHEN EQUIPMENT CONTRACTOR
K O	KNOCK OUT
LTG	LIGHTING
L/V	LOW VOLTAGE
MDF	MAIN DISTRIBUTION FRAME
M.H.	MANHOLE
MFGR	MANUFACTURER
MAX	MAXIMUM
MECH	MECHANICAL
MTL	METAL
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
MSB	MAIN SWITCHBOARD
OPNG	OPENING
PLBG	PLUMBING
OPER	OPERATOR/OPERATED
PC	POWER CENTER
PNL	PANEL
P/T	POTENTIAL TRANSFORMER
PB	PUSHBUTTON
P.A.	PUBLIC ADDRESS
RECEPT	RECEPTACLE
REQ'D	REQUIRED
RM	ROOM
S	SURFACE
SCHED	SCHEDULE
SHT	SHEET
STAT	THERMOSTAT
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
STBY	STANDBY
TELE	TELEPHONE
TGB	TELECOMM GROUND BAR
TMGB	TELECOMM MAIN GROUND BAR
T.V.	TELEVISION
TEMP.	TEMPERATURE
TERM. BD.	TERMINAL BOARD
TR	TELECOMM ROOM
TRANS	TRANSFER
TFMR	TRANSFORMER
TYP	TYPICAL
T.C.C.	TEMP. CONTROL CONTRACTOR
UPS	UNITERRUPTIBLE POWER SUPPLY
USB	UNIT SUBSTATION
WP	WEATHERPROOF
W	WIRE
W/	WITH

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HGT. TO CENTER UNLESS OTHERWISE NOTED
a R1	LIGHT FIXTURE: TYPE "R1" SEE LIGHTING FIXTURE SCHEDULE; WIRED TO SWITCH "a"	SEE DRAWINGS
	CEILING OR WALL MOUNTED LIGHTING FIXTURE TYPE "R2", "W2"; SEE LIGHTING FIXTURE SCHEDULE	SEE DRAWINGS
	LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER	SEE DRAWINGS
	EXIT SIGN FIXTURE (WITH DIRECTIONAL ARROWS AS SHOWN) (TYPE AND MOUNTING AS NOTED: SEE LIGHTING FIXTURE SCHEDULE)	94"
S_a	SINGLE POLE SWITCH; a = SWITCH "a"	42"
$S_{2,3,4,K,P}$	SPECIAL SWITCH: 2-WAY; 3-WAY; 4-WAY; KEY OPERATED; SWITCH WITH PILOT LIGHT	42"
	DUPLEX RECEPTACLE; 3 WIRE GROUND TYPE	18"
GF	DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER	18"
	DOUBLE DUPLEX RECEPTACLE	18"
F	SPECIAL OUTLET WALL / FLOOR MOUNTED	REFER TO DRAWINGS
F	JUNCTION BOX; WALL / CEILING MOUNTED / FLOOR MOUNTED	SEE DRAWINGS
	COMMUNICATIONS / DATA OUTLET	18"
	MOTOR - 1 PHASE	AS REQUIRED
	MOTOR - 3 PHASE	AS REQUIRED
	ELECTRICAL PANEL - SURFACE MOUNT, FLUSH MOUNT	6'-0" TO TOP
	TOGGLE TYPE DISCONNECT SWITCH	AS REQUIRED
	SAFETY DISCONNECT SWITCH	AS REQUIRED
	COMBINATION MOTOR STARTER	AS REQUIRED
F	FIRE ALARM SIGNAL - SPEAKER/STROBE	80"
F	FIRE ALARM SIGNAL - STROBE ONLY	80"
F	FIRE ALARM PULL STATION	42"
	SMOKE DETECTOR - DUCT MOUNTED	SEE DRAWINGS
F	SMOKE DETECTOR - CEILING / WALL MOUNTED	
AM	FIRE ALARM ADDRESSABLE MODULE	AS REQUIRED
CR	ACCESS CONTROL CARD READER	42"
EB	ACCESS CONTROL REQUEST TO EXIT BUTTON	42"
DC	ACCESS CONTROL DOOR CONTACT	AS REQUIRED
ES	ELECTRIC STRIKE	AS REQUIRED
A	DOOR ALARM	80"
	HANDICAP PUSHBUTTON	AS REQUIRED
OS	LIGHTING CONTROL OCCUPANCY SENSOR	CLG. MTD.

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ISSUE

NO.	DATE	DESCRIPTION
	12/16/2024	CD REVIEW
	01/29/2025	BID & PERMIT

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L.POWELL	L.POWELL	D.POWELL	24213

DATE	01/29/2025
JOB NO.	4249.00
DRAWN	MES/LJY
CHECKED	-

TITLE
ELECTRICAL NOTES AND LEGENDS

SHEET NO.
E0.1

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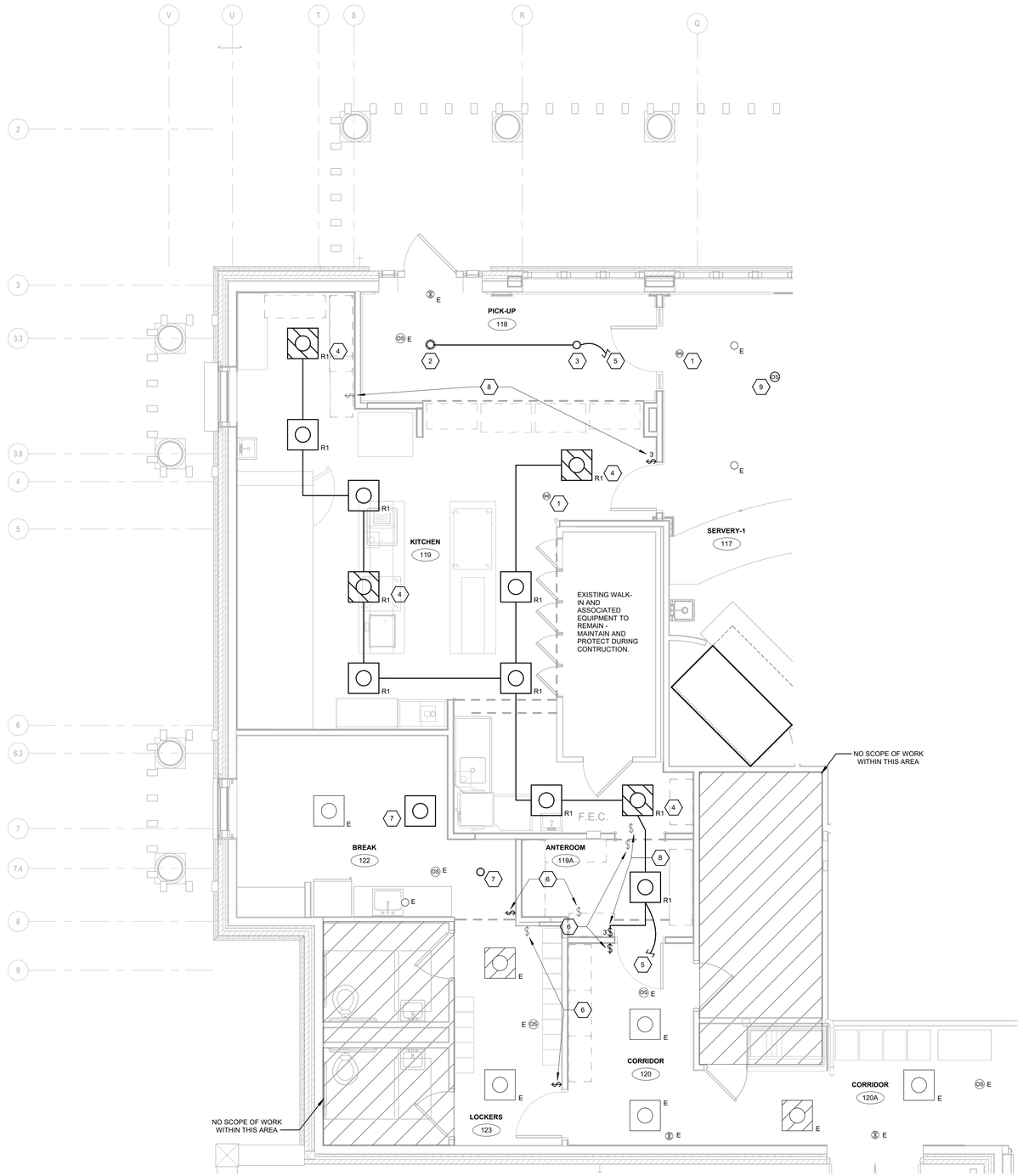


FIRST FLOOR LIGHTING PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES

A. ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, WIRING DEVICES, ETC. SHOWN ON THIS PLAN IN THIN LINES AND SUBSCRIPT "E" ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.

B. ALL ELECTRICAL EQUIPMENT, WIRING DEVICES, ETC. SHOWN ON THIS PLAN IN BOLD LINES ARE NEW UNLESS NOTED OTHERWISE.

C. LIGHTING FIXTURES SHALL BE MANUALLY CONTROLLED WITH A LOCAL WALL SWITCH AND AUTOMATICALLY CONTROLLED TO "OFF" WITH A CEILING MOUNTED OR WALL MOUNTED OCCUPANCY SENSOR, OR TIME-OF DAY SCHEDULE WITH AUTOMATIC SHUTOFF. REFER TO THE OCCUPANCY SENSOR WIRING DIAGRAM FOR WIRING DETAILS, SENSOR SPECIFICATIONS AND ADDITIONAL DIRECTION.

D. EMERGENCY EGRESS LIGHTING FIXTURES SHALL BE CONTROLLED WITH THE ADJACENT LIGHTING FIXTURES, AS INDICATED. WIRE HATCHED FIXTURES AND EXIT SIGNS TO BE ON EXISTING LOCAL EMERGENCY LIGHTING BRANCH CIRCUIT. EXTEND EXISTING EMERGENCY CIRCUIT WITHIN SPACE TO THE EMERGENCY LIGHTING FIXTURES - MINIMUM WIRE SHALL BE 2-#10 AND 1-#10 GROUND MC CABLE. PROVIDE A GENERATOR TRANSFER DEVICE (GTD), EQUAL TO BODINE GTD, FOR EMERGENCY FIXTURES. FIXTURE TO BE CONTROLLED FROM LIGHTING CONTROL SYSTEM DURING NORMAL OPERATION (NORMAL POWER AVAILABLE). IN THE EVENT NORMAL POWER IS LOST, THE GTD SHALL TRANSFER EMERGENCY POWER TO THE FIXTURES, BYPASSING THE LIGHTING CONTROL AND POWER THE FIXTURES AT FULL ILLUMINATION UNTIL NORMAL POWER RETURNS. LOCATE GTD IN THE ELECTRICAL ROOM. REFER TO GENERATOR TRANSFER DEVICE (GTD) WIRING AND BLOCK DIAGRAM ON SHEET E4.1.

E. ALL MATERIALS INSTALLED ABOVE CEILING MUST BE PLENUM RATED.

F. PROVIDE FIRESTOP MATERIAL FOR EACH PENETRATION OF EXISTING SLAB AND THROUGH RATED FIRE RATED WALLS.

G. NEW DEVICES AND COVERPLATES TO BE COLOR WHITE. PRIOR TO ORDERING ANY DEVICES, GENERAL CONTRACTOR TO VERIFY COLOR MATCHES EXISTING.

H. ALL BRANCH CIRCUIT CONDUCTORS/RACEWAY SHALL BE NEW, BACK TO SOURCE PANELBOARD, UNLESS NOTED OTHERWISE TO BE REUSED.

I. BRANCH CIRCUIT HOMERUNS TO BE IN EMT CONDUIT.

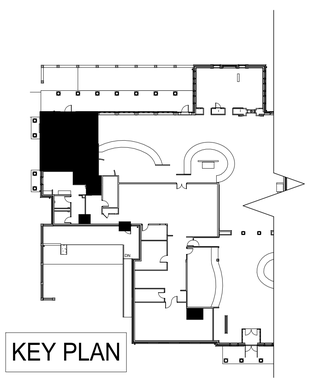
J. WHERE MULTIPLE WIRING DEVICES ARE SHOWN ADJACENT TO EACH OTHER, DEVICES SHALL BE PROVIDED IN A MULTI-GANG OUTLET BOX WITH A COMMON COVERPLATE.

K. ALL EXPOSED CONDUIT IN ROOMS HAVING NO CEILINGS/EXPOSED STRUCTURE TO BE EMT CONDUIT RUN 1-1/2" BELOW THE DECK ABOVE IN A NEAT AND ORGANIZED MANNER.

L. PROVIDE THREAD-ON TYPE CONNECTORS FOR JOINTS WITH CONDUCTOR SIZES #8 AND SMALLER. SCREWLESS TYPE CONNECTORS AND "PUSH IN" TYPE PRESSURE CONNECTORS (E.G. WAGO CONNECTORS, ETC.) ARE NOT ACCEPTABLE.

CODED NOTES ⬡

1. INSTALL RELOCATED EXIT SIGN - EXTEND EXISTING WIRING MAINTAINED AND PROTECTED DURING DEMOLITION TO NEW LOCATION. REFER TO SHEET ED1.1 FOR PREVIOUS LOCATION.
2. INSTALL RELOCATED LIGHTING FIXTURE - CONNECT EXISTING CONTROL ZONE/BRANCH CIRCUIT MAINTAINED DURING DEMOLITION (FIXTURE ASSOCIATED WITH CODED NOTE 18 ON DEMO PLAN) TO THE RELOCATED LIGHTING FIXTURE.
3. INSTALL RELOCATED LIGHTING FIXTURE - PROVIDE NEW LIGHITNG CONTORL ZONE AS SHOWN. MINIMUM WIRE SIZE SHALL BE 2-#12 AND 1-#12 GROUND IN 1/2" CONDUIT.
4. INSTALL NEW LIGHTING FIXTURE - PROVIDE NEW ZONE OF CONTROL AS SHOWN. EXTEND WIRING THROUGH EXISTING GTD - MINIMUM WIRE SIZE SHALL BE 2-#12 AND 1-#12 GROUND IN 1/2" CONDUIT. REFER TO GENERATOR TRANSFER DEVICE (GTD) BLOCKDIAGRAM ON SHEET E4.1, AND GENERAL NOTE "D" FOR MORE INFORMATION.
5. EXTEND EXISTING NORMAL LIGHTING BRANCH CIRCUIT TO THE RELOCATED LIGHTING FIXTURES - MINIMUM WIRE SIZE SHALL BE 2-#12 AND 1-#12 GROUND IN 1/2" CONDUIT.
6. INSTALL RELOCATED LIGHTING CONTROL DEVICE - REFER TO SHEET ED1.1 FOR PREVIOUS LOCATION. EXTEND EXISTING BRANCH CIRCUIT FROM PREVIOUS LOCATION TO THE NEW - MINIMUM BRANCH CIRCUIT SHALL BE #12 PHASE AND GROUND CONDUCTORS.
7. INSTALL RELOCATED LIGHTING FIXTURE - REFER TO SHEET ED1.1 FOR PREVIOUS LOCATION. EXTEND EXISTING CONTROLLED BRANCH CIRCUIT FROM PREVIOUS LOCATION TO THE NEW - MINIMUM WIRE SIZE SHALL BE 2-#12 AND 1-#12 GROUND IN 1/2" CONDUIT.
8. INSTALL RELOCATED LIGHTING CONTROL DEVICE - REFER TO SHEET ED1.1 FOR PREVIOUS LOCATION. PROVIDE NEW CONTROL ZONE AS SHOWN - MINIMUM BRANCH CIRCUIT SHALL BE #12 PHASE AND GROUND CONDUCTORS.
9. INSTALL RELOCATED CEILING MOUNTED OCCUPANCY SENSOR - EXTEND EXISTING CONTROL ZONE/CIRCUIT FROM THE PREVIOUS LOCATION TO THE NEW.



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TITLE
FIRST FLOOR LIGHTING PLAN

SHEET NO.
E1.1

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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
L.POWELL	L.POWELL	D.POWELL	24213

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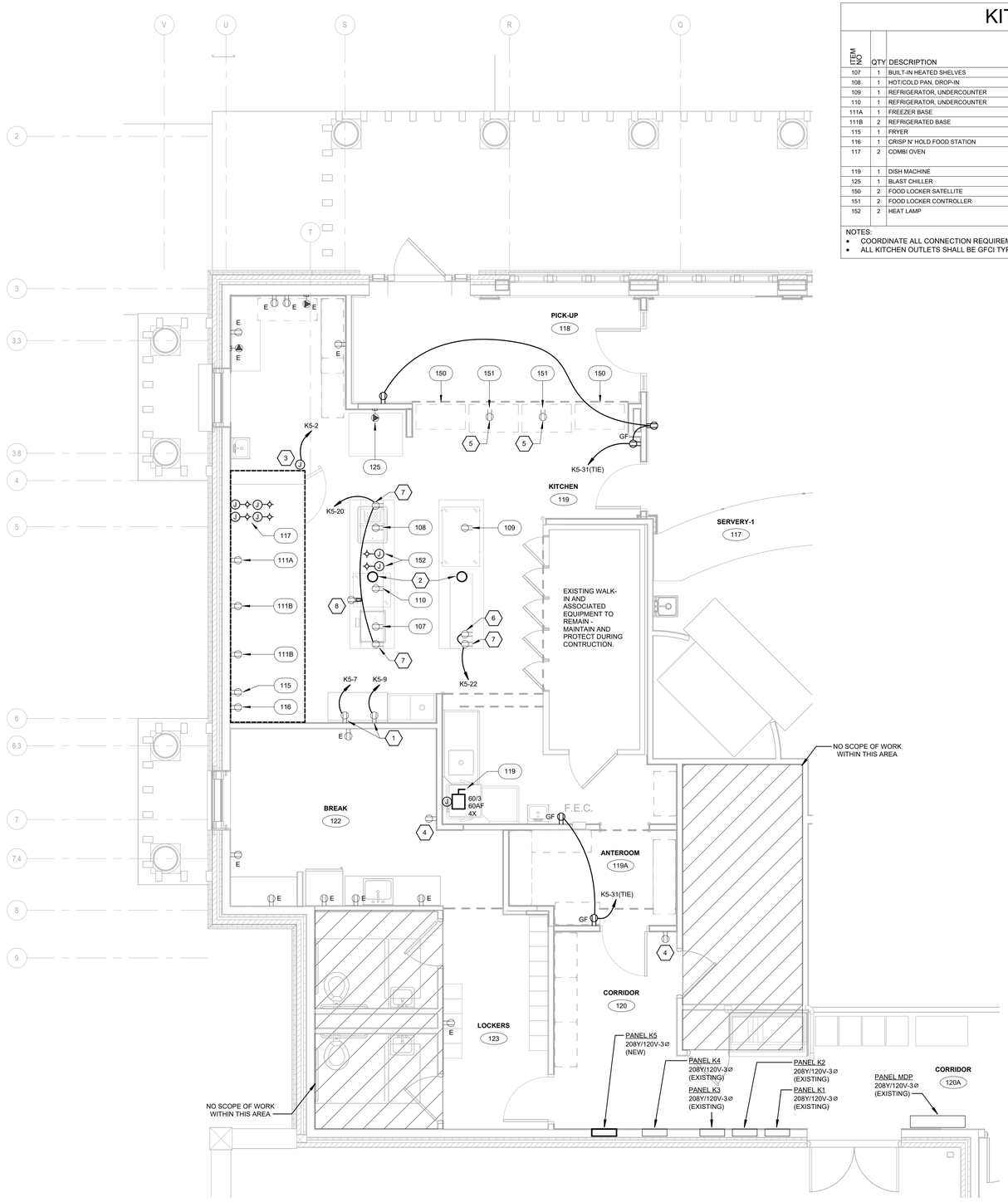


FIRST FLOOR POWER PLAN

SCALE: 1/4" = 1'-0"

KITCHEN EQUIPMENT SCHEDULE (#)

ITEM NO	QTY	DESCRIPTION	AMPS	KW	HP	VOLTS	PHASE	DIRECT PLUG	NEMA	AFF/IN.	CIRCUIT NO	ELEC REMARKS
107	1	BUILT-IN HEATED SHELVES	4.6	0.55		120	1	X	5-15P	SHELF	K5-17	MOUNTED WITHIN REMOTE WORK TABLE, DROP FROM CEILING
108	1	HOT/COLD PAN, DROP-IN	14	1.7	1/4	120	1	X	5-20P	SHELF	K5-28	MOUNTED WITHIN REMOTE WORK TABLE, DROP FROM CEILING
109	1	REFRIGERATOR, UNDERCOUNTER	3.0			120	1	X	5-15P	SHELF	K5-13	MOUNTED UNDER REMOTE WORK TABLE, DROP FROM CEILING
110	1	REFRIGERATOR, UNDERCOUNTER	2.7			120	1	X	5-15P	SHELF	K5-15	MOUNTED UNDER REMOTE WORK TABLE, DROP FROM CEILING
111A	1	FREEZER BASE	8.0		1/3	120	1	X	5-20P	24	K5-1	
111B	2	REFRIGERATED BASE	8.0		1/4	120	1	X	5-20P	24	K5-3,K5-11	
115	1	FRYER	6.8		1/3	120	1	X	5-15P	24	K5-5	
116	1	CRISP N' HOLD FOOD STATION	15.1	1.82		120	1	X	5-20P	24	K5-4	
117	2	COMBI OVEN	15.0	0.9		208	1	X		DFA	REFER TO ELEC. REMARKS	TWO CIRCUITS PER COMBI OVEN - COMBI OVENS ARE STACKED OVEN 1: K5-33,35 & K5-37,39 OVEN 2: K5-30,32 & K5-34,36
119	1	DISH MACHINE	52.5		2	208	3	X		DFA	K5-19,21,23	60A MOCP
125	1	BLAST CHILLER	24		4	208	3		X 15-30P	24	K5-14,16,18	
150	2	FOOD LOCKER SATELLITE										POWERED FROM CONTROLLER POWER SUPPLY
151	2	FOOD LOCKER CONTROLLER	3.8			120	1	X			K5-24,K5-26	RECEPTACLE SHALL BE MOUNTED IN WALL ABOVE LOCKER
152	2	HEAT LAMP		4.3		208	1	X		DFA	K5-38,40 K5-42,44	ONE HEAT LAMP IS UNDER THE TOP SHELF OF THE EXPEDITE TABLE, THE OTHER IS UNDER THE MIDDLE SHELF OF THE EXPEDITE TABLE

NOTES:
- COORDINATE ALL CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURERS PRIOR TO ROUGH-IN.
- ALL KITCHEN OUTLETS SHALL BE GFCI TYPE OR PROTECTED BY GFCI CIRCUIT BREAKER.

KITCHEN HOOD NOTES

A. ACTIVATION OF THE KITCHEN HOOD SUPPRESSION SYSTEM SHALL SHUT DOWN THE HOOD EXHAUST AND MAKE-UP AIR UNIT. ALL GAS AND ELECTRICAL EQUIPMENT LOCATED BELOW HOOD SHALL HAVE POWER REMOVED VIA SHUNT TRIP SIGNAL FROM THE MAIN HOOD CONTROL PANEL. REFER TO KITCHEN EQUIPMENT SHUNT TRIP CONTROL DIAGRAM, SHEET E4.3, AND CAPTIVE AIRE DRAWINGS FOR ADDITIONAL INFORMATION

B. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR THE HOOD CONTROL PANEL WIRING DIAGRAMS FOR THE EXHAUST FANS AND MUA AND ALL FIELD WIRING AND CONNECTIONS TO BE PROVIDED BY THIS CONTRACTOR.

C. ALL POWER FEEDS FROM FAN MOTOR STARTERS TO HOOD CONTROL PANEL TO FAN MOTOR DISCONNECTS SHALL BE IN SEPARATE STEEL CONDUIT.

KITCHEN EQUIPMENT GENERAL NOTES

A. ALL ELECTRICAL DEVICES AND EQUIPMENT IN KITCHEN SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR FROM DEVICE TO ELECTRICAL PANEL AND CIRCUITED AS INDICATED. ALL KITCHEN EQUIPMENT LISTED IN FOOD SERVICE EQUIPMENT SCHEDULE IS PROVIDED BY UNIVERSITY, UNLESS NOTED OTHERWISE.

B. COORDINATE EQUIPMENT INSTALLATION AND LOCATIONS WITH UNIVERSITY, AND ARCHITECTURAL KITCHEN PLAN.

C. PROVIDE REQUIRED DISCONNECTING MEANS, SIZED PER N.E.C., IN ALL CASES WHERE IT IS NOT PROVIDED BY THE FOOD SERVICE SUPPLIER. ALL DISCONNECTING MEANS SHALL BE HEAVY DUTY.

D. COORDINATE KITCHEN EQUIPMENT DISCONNECT LOCATION WITH UNIVERSITY PRIOR TO ROUGH-IN - DISCONNECTS SHALL BE LOCATED WITHIN LINE OF SIGHT FROM THE EQUIPMENT.

E. SEE KITCHEN EQUIPMENT SCHEDULE ON THIS SHEET FOR ELECTRICAL INFORMATION ON KITCHEN EQUIPMENT. THIS SCHEDULE HAS BEEN ADAPTED FROM THE FOOD SERVICE EQUIPMENT CUT-SHEETS. COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH MANUFACTURER.

F. NEMA CONFIGURATIONS REPRESENT EQUIPMENT PLUG RATINGS. PROVIDE 20 AMP RECEPTACLES FOR ALL EQUIPMENT INDICATING 15 AMP CORD AND PLUGS.

G. PROVIDE LAMINATED NAMEPLATES FOR ALL DISCONNECTS, AND ADHESIVE LABELS ON ALL RECEPTACLE COVER PLATES, INDICATING UNIQUE EQUIPMENT ID NUMBER AND EQUIPMENT NAME. THIS SHALL BE SEPARATE FROM THE BRANCH CIRCUIT LABELING NOTED IN THE IDENTIFICATIONS SPECIFICATION SECTION. RECEPTACLES FOR CONVENIENCE USE WITH "CO" TAG SHALL BE LABELED "CONVENIENCE" WITH NO NUMBER. REFER TO RECEPTACLE LABELING DETAIL, LOCATED ON SHEET E4.1.

GENERAL NOTES

A. ALL ELECTRICAL EQUIPMENT, WIRING DEVICES, ETC. SHOWN ON THIS PLAN IN THIN LINES AND SUBSCRIPT "E" ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.

B. ALL ELECTRICAL EQUIPMENT, WIRING DEVICES, ETC. SHOWN ON THIS PLAN IN BOLD LINES ARE NEW UNLESS NOTED OTHERWISE.

C. ALL MATERIALS INSTALLED ABOVE CEILING MUST BE PLENUM RATED.

D. COORDINATE MOUNTING HEIGHT AND FINAL LOCATIONS OF RECEPTACLES WITH ARCHITECTURAL DETAILS AND ELEVATIONS PRIOR TO ROUGH-IN. ALL RECEPTACLES LOCATED WITHIN SIX (6) FEET OF SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. RECEPTACLES IN AREAS SUCH AS BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES WHICH ARE NOT READILY ACCESSIBLE AND REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

E. SURFACE MOUNTED RACEWAYS SHALL BE "EMT" TYPE CONDUIT. ALL SURFACE MOUNTED RACEWAYS SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING WALL AND CEILINGS. FILED COORDINATE ALL SURFACE RACEWAY PATHS AND DROPS WITH THE EXISTING CONDITIONS, OTHER TRADES, ARCHITECTURAL ELEVATIONS, AND TENANT PRIOR TO ROUGH-INS.

F. BRANCH CIRCUIT HOMERUNS TO BE IN EMT CONDUIT.

G. WHERE MULTIPLE WIRING DEVICES ARE SHOWN ADJACENT TO EACH OTHER, DEVICES SHALL BE PROVIDED IN A MULTI-GANG OUTLET BOX WITH A COMMON COVERPLATE.

H. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTY SEALANT. ALL CONDUITS THAT PASS THRU RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS. REFER TO FIRE STOPPING DETAILS ON SHEET E4.1 FOR MORE INFORMATION.

I. AVOID THE USE OF ACCESS PANELS IN GYPSUM BOARD CEILINGS WHERE EVER POSSIBLE. LOCATE ABOVE-CEILING JUNCTION BOXES, DEVICES, ETC. ABOVE ACCESSIBLE CEILINGS IN ADJACENT SPACES TO AVOID THE REQUIREMENT FOR ACCESS PANELS. COORDINATE LOCATION OF ACCESS PANEL WITH ARCHITECT PRIOR TO ROUGH-IN OF ANY BRANCH CIRCUITS.

J. ALL EXPOSED CONDUIT IN ROOMS HAVING NO CEILINGS/EXPOSED STRUCTURE TO BE EMT CONDUIT RUN 1-1/2" BELOW THE DECK ABOVE IN A NEAT AND ORGANIZED MANNER.

K. COORDINATE DEVICE MOUNTING HEIGHTS WITH APPROVED CASEWORK/MILLWORK SHOP DRAWINGS PRIOR TO ANY ROUGH-IN.

L. PRIOR TO ROUGH-IN, REVIEW AND COORDINATE ELECTRICAL REQUIREMENTS WITH OTHER TRADES SHOP DRAWINGS FOR ELECTRICAL CONNECTIONS TO EQUIPMENT FURNISHED BY OTHER TRADES AND/OR THE TENANT.

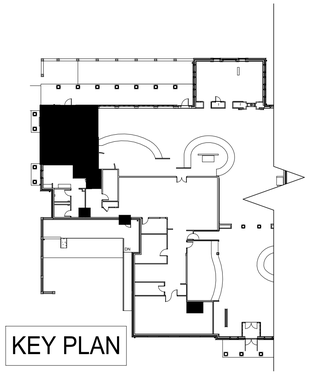
M. PRIOR TO ROUGH-IN, COORDINATE THE FINAL LOCATIONS OF CEILING DEVICES WITH THE REFLECTED CEILING PLANS AND OTHER TRADES.

N. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, LOCATIONS, AND CONNECTION REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.

O. COORDINATE THE FINAL LOCATION OF THE MECHANICAL EQUIPMENT. PROVIDE A NEUTRAL CONDUCTOR TO ALL THE MECHANICAL EQUIPMENT WITH A SINGLE PHASE FAN. NEUTRAL CONDUCTOR SHALL MATCH THE WIRE GAUGE OF THE PHASE CONDUCTORS LISTED IN THE PANELBOARD SCHEDULE. WIRE THE UNIT PER THE MANUFACTURER'S WIRING DIAGRAMS. UNLESS OTHERWISE NOTED, ALL DISCONNECT SWITCHES, FUSING AND CONTROLS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

CODED NOTES ⬡

1. PROVIDE DEDICATED RECEPTACLE MOUNTED ABOVE WORK TABLE - COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH ARCHITECT AND UNIVERSITY PRIOR TO ROUGH-IN.
2. UNDERGROUND CONDUIT STUB-UP LOCATION FOR ISLAND CIRCUITS - COORDINATE FINAL LOCATION OF CONDUITS IN ISLAND WITH KITCHEN EQUIPMENT LAYOUT. REFER TO SHEET E3.1 FOR MORE INFORMATION.
3. PROVIDE A DEDICATED 15 AMP, 120V BRANCH CIRCUIT TO PACKAGED KITCHEN HOOD CONTROL PANEL FOR CONTROL POWER AND ELECTRICALLY OPERATED GAS SHUTOFF VALVE. COORDINATE FINAL LOCATION OF THE CONTROL PANEL AND VALVE WITH THE KITCHEN EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. CIRCUIT ALL HOOD INTERCONNECTION WIRING TO LIGHTING, EXHAUST FANS, AND MAKEUP AIR UNIT THROUGH CONTROL PANEL. PROVIDE ALL LINE- AND LOW-VOLTAGE WIRING FOR POWER, INTERLOCK, AND CONTROL INCLUDING, BUT NOT LIMITED TO GAS VALVE SHUTOFF, SHUNT TRIP CONTROL, FIRE SYSTEM TROUBLE AND ALARM, ETC. PER MANUFACTURER'S WIRING DIAGRAMS. COORDINATE ALL FINAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. EXTEND HOOD FIRE SUPPRESSION CONNECTION TO SHUNT TRIP TO DE-ENERGIZE CIRCUIT WHEN FIRE SUPPRESSION SYSTEM DISCHARGES.
4. INSTALL RELOCATED WIRING DEVICE. EXTEND EXISTING BRANCH CIRCUIT FROM THE PREVIOUS LOCATION TO THE NEW - MINIMUM WIRE SIZE SHALL BE 2-#12 AND 1-#12 GROUND IN 1/2" CONDUIT. REFER TO SHEET ED1.1 FOR PREVIOUS LOCATION.
5. PROVIDE DUPLEX RECEPTACLE FOR FOOD LOCKER INTEGRAL POWER AND LIGHTING. DEVICE SHALL BE INSTALLED IN WALL ABOVE FOOD LOCKERS - COORDINATE FINAL LOCATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
6. PROVIDE RECEPTACLE FOR SHELF MOUNTED KDS PRINTER. COORDINATE FINAL LOCATIONS AND MOUNTING OF KITCHEN DISPLAY SYSTEM (KDS) PRINTER WITH KITCHEN EQUIPMENT CONSULTANT.
7. PROVIDE RECEPTACLE FOR SHELF MOUNTED KITCHEN DISPLAY SYSTEM (KDS). COORDINATE FINAL LOCATION AND MOUNTING OF KDS WITH KITCHEN EQUIPMENT CONSULTANT.
8. DISCONNECT AND TEMPORARILY SUSPEND EXISTING CEILING MOUNTED RECEPTACLE TO ALLOW FOR THE INSTALLATION OF A NEW CEILING SYSTEM - REINSTALL RECEPTACLE WITHIN NEW CEILING SYSTEM. PROVIDE GUIDE WIRE FROM OUTLET BOX TO STRUCTURE ABOVE.



KEY PLAN

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ISSUE

NO.	DATE	DESCRIPTION
	12/16/2024	CD REVIEW
	01/29/2025	BID & PERMIT

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TITLE
FIRST FLOOR POWER PLAN

SHEET NO.
E2.1

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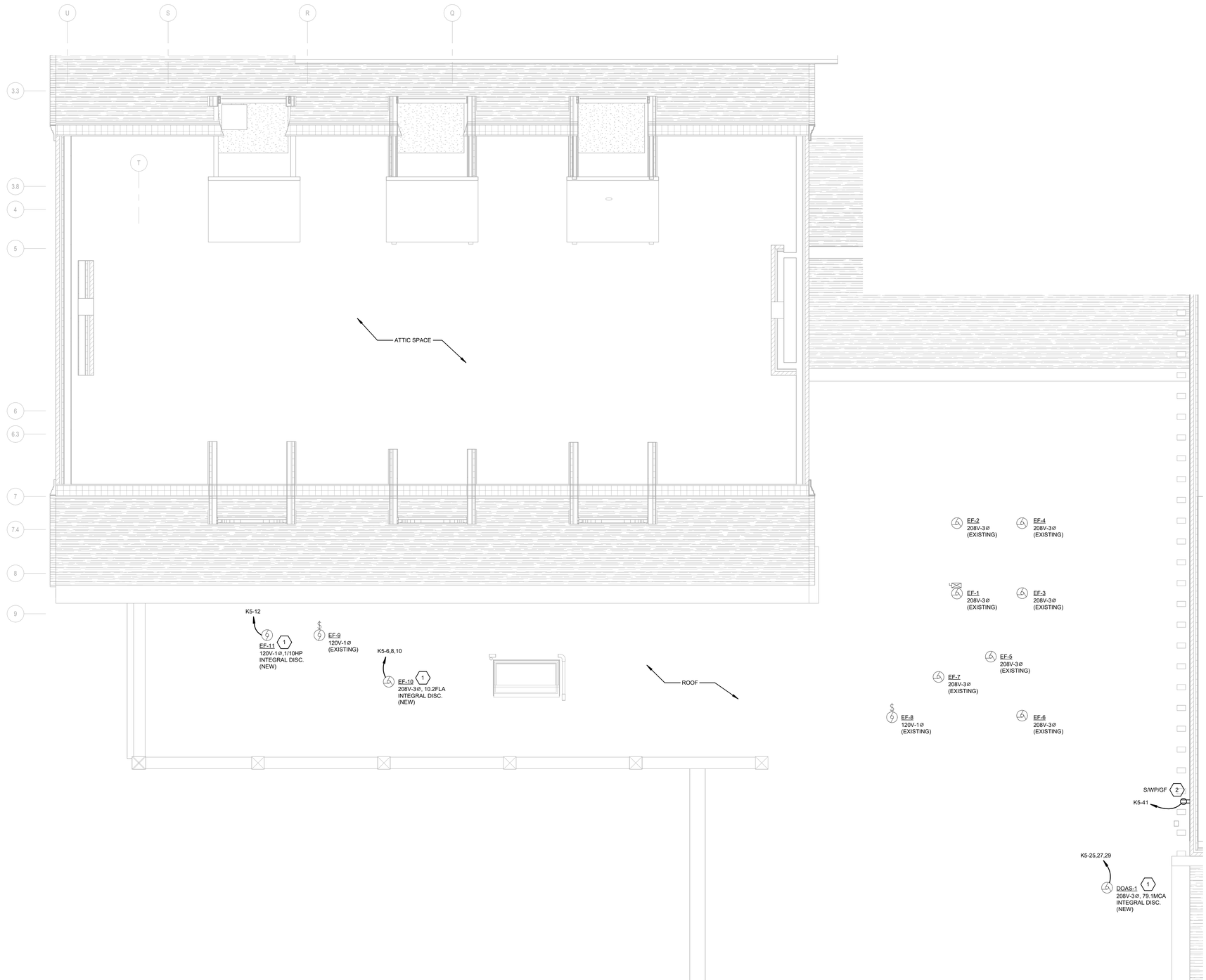


GENERAL NOTES

A. ALL MATERIALS INSTALLED ABOVE CEILING MUST BE PLENUM RATED.

B. SURFACE MOUNTED RACEWAYS SHALL BE "EMT" TYPE CONDUIT. ALL SURFACE MOUNTED RACEWAYS SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING WALL AND CEILINGS. FILED COORDINATE ALL SURFACE RACEWAY PATHS AND DROPS WITH THE EXISTING CONDITIONS, OTHER TRADES, ARCHITECTURAL ELEVATIONS, AND TENANT PRIOR TO ROUGH-INS.

C. BRANCH CIRCUIT HOMERUNS TO BE IN EMT CONDUIT.

D. AVOID THE USE OF ACCESS PANELS IN GYPSUM BOARD CEILINGS WHERE EVER POSSIBLE. LOCATE ABOVE-CEILING JUNCTION BOXES, DEVICES, ETC. ABOVE ACCESSIBLE CEILINGS IN ADJACENT SPACES TO AVOID THE REQUIREMENT FOR ACCESS PANELS. COORDINATE LOCATION OF ACCESS PANEL WITH ARCHITECT PRIOR TO ROUGH-IN OF ANY BRANCH CIRCUITS.

E. ALL EXPOSED CONDUIT IN ROOMS HAVING NO CEILINGS/EXPOSED STRUCTURE TO BE EMT CONDUIT RUN 1-1/2" BELOW THE DECK ABOVE IN A NEAT AND ORGANIZED MANNER.

F. PRIOR TO ROUGH-IN, REVIEW AND COORDINATE ELECTRICAL REQUIREMENTS WITH OTHER TRADES SHOP DRAWINGS FOR ELECTRICAL CONNECTIONS TO EQUIPMENT FURNISHED BY OTHER TRADES AND/OR THE TENANT.

G. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, LOCATIONS, AND CONNECTION REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.

H. COORDINATE THE FINAL LOCATION OF THE MECHANICAL EQUIPMENT. PROVIDE A NEUTRAL CONDUCTOR TO ALL THE MECHANICAL EQUIPMENT WITH A SINGLE PHASE FAN. NEUTRAL CONDUCTOR SHALL MATCH THE WIRE GAUGE OF THE PHASE CONDUCTORS LISTED IN THE PANELBOARD SCHEDULE. WIRE THE UNIT PER THE MANUFACTURER'S WIRING DIAGRAMS. UNLESS OTHERWISE NOTED, ALL DISCONNECT SWITCHES, FUSING AND CONTROLS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

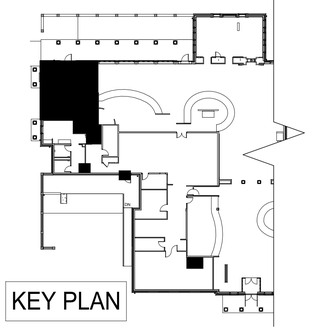
CODED NOTES

1. EXTEND BRANCH CIRCUIT THROUGH VFD TO UNIT MOUNTED DISCONNECT SWITCH FURNISHED BY M.F.G.R.. BRANCH CIRCUIT WIRING FROM VFD'S MUST BE IN SEPARATE STEEL CONDUIT TO EACH RESPECTIVE FAN. WIRE COMPLETE PER MANUFACTURER'S RECOMMENDATIONS. MAKE ALL ROOF PENETRATIONS WATER TIGHT - REFER TO ROOF PENETRATION DETAIL ON SHEET E4.1 FOR MORE INFORMATION.

2. MOUNT HVAC WORK RECEPTACLES SO THAT A RECEPTACLE IS WITHIN 25' OF NEW DOAS UNIT - MAKE PENETRATION THROUGH EXTERIOR WALL WATER TIGHT.

ROOF LEVEL POWER PLAN

SCALE: 1/4" = 1'-0"



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TITLE
ROOF LEVEL POWER PLAN

SHEET NO.
E2.2

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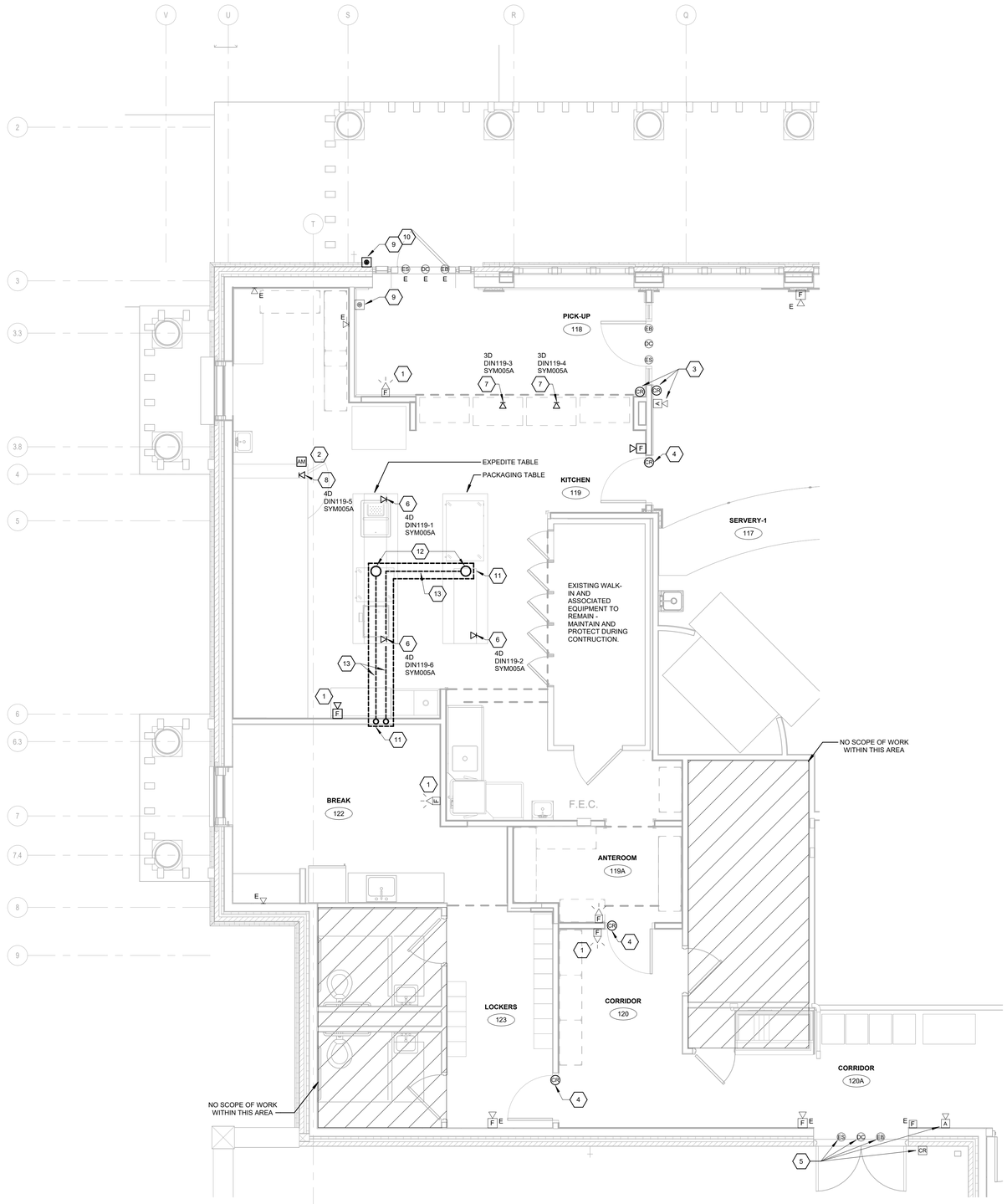


FIRST FLOOR SYSTEMS PLAN

SCALE: 1/4" = 1'-0"

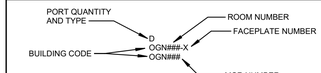
CODED NOTES

1. INSTALL RELOCATED FIRE ALARM DEVICE - EXTEND EXISTING FIRE ALARM WIRING FROM PREVIOUS LOCATION TO THE NEW, SPLICING OF EXISTING FIRE ALARM WIRING IS NOT ACCEPTABLE. REFER TO SHEET ED1.1 FOR PREVIOUS LOCATION.
2. PROVIDE FIRE ALARM MODULE AND CONNECTIONS TO BUILDING FIRE ALARM SYSTEM FOR CONTROL PANEL TROUBLE AND ALARM SIGNALS.
3. NEW CARD READER - PROVIDE ALL ASSOCIATED DEVICES AND WIRE COMPLETE. REFER TO TYPICAL DOOR ACCESS CONTROL ELEVATION 1 ON SHEET E4.2 FOR MORE INFORMATION. COORDINATE FINAL REQUIREMENTS WITH UNIVERSITY PRIOR TO ROUGH-IN.
4. NEW IN DOOR CARD READER - PROVIDE ALL ASSOCIATED DEVICES AND WIRE COMPLETE. REFER TO TYPICAL DOOR ACCESS CONTROL ELEVATION 2 AND AD300 ACCESS CONTROL DOOR DIAGRAM ON SHEET E4.2 FOR MORE INFORMATION. COORDINATE FINAL REQUIREMENTS WITH UNIVERSITY PRIOR TO ROUGH-IN.
5. DISCONNECT EXISTING WIRING OF ACCESS CONTROL DEVICES AND MAKE SAFE TO ALLOW FOR THE INSTALLATION OF A NEW DOOR AND ASSOCIATED HARDWARE. WIRE COMPLETE AFTER INSTALLATION OF NEW DOOR AND ASSOCIATED HARDWARE.
6. PROVIDE 4D FOR SHELF MOUNTED KITCHEN DEVICES. LABEL DATA OUTLETS PER THE DEVICE LABELING KEY. COORDINATE FINAL LOCATION AND MOUNTING OF DEVICES WITH KITCHEN EQUIPMENT CONSULTANT. EXTEND ALL DATA CABLES IN ISLAND THROUGH 1-1/4" CONDUIT UNDERGROUND STUBBED UP TO CEILING FROM NEAREST WALL. RUN ADJACENT TO UNDERGROUND POWER CONDUITS.
7. PROVIDE DATA FOR FOOD LOCKER INTEGRAL CONTROLS. DEVICE SHALL BE INSTALLED IN WALL ABOVE FOOD LOCKERS - COORDINATE FINAL LOCATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
8. PROVIDE DATA FOR KITCHEN EQUIPMENT - COORDINATE FINAL REQUIREMENTS WITH BUILDING MANAGEMENT DESIGN AND UNIVERSITY IT.
9. EXISTING EXTERIOR DOOR HANDICAP PUSHBUTTON TO BE REPLACED - DISCONNECT EXISTING WIRING AND MAKE SAFE TO ALLOW FOR THE INSTALLATION OF A HANDICAP PUSHBUTTON. WIRE COMPLETE AFTER INSTALLATION OF NEW HANDICAP PUSHBUTTON.
10. RELOCATED EXTERIOR DOOR HANDICAP PUSHBUTTON - EXTEND EXISTING WIRING MAINTAINED AND PROTECTED DURING DEMOLITION TO THE NEW LOCATION. COORDINATE FINAL LOCATION OF WITH PLUMBING CONTRACTOR AS TO AVOID EXISTING WALL HYDRANT.
11. COORDINATE TRENCHING, AND PATCH/REPAIR OF FLOOR WITH GENERAL TRADES CONTRACTOR - ALL TRENCHING SHALL BE INFILLED TO MATCH EXISTING FLOOR SLAB FOR NEW FLOOR FINISH.
12. UNDERGROUND CONDUIT STUB-UP LOCATION FOR ISLAND CABLING. EXTEND CONDUIT TO WALL AND STUB UP TO ACCESSIBLE CEILING SPACE - COORDINATE FINAL LOCATION OF CONDUITS IN ISLAND WITH KITCHEN EQUIPMENT LAYOUT.
13. PROVIDE CONDUITS, AS DESCIBED BELOW, FOR THE POWER AND DATA DEVICES LOCATED WITHIN THE EXPEDITE AND PACKAGING TABLE - ALL CONDUITS (POWER AND DATA) FOR THE EXPEDITE AND PACKAGING TABLES SHALL BE RUN IN THE SAME TRENCH. PROVIDE EMPTY CONDUIT WITH PULL STRING AND CONDUIT BUSHINGS.
    - A. EXPEDITE TABLE:
        - a. (2) 1" CONDUIT FOR POWER
        - b. (1) 1-1/4" CONDUIT FOR DATA
        - c. (1) 1" CONDUIT FOR FUTURE POWER
        - d. (1) 1-1/4" CONDUIT FOR FUTURE DATA
    - B. PACKAGING TABLE:
        - a. (1) 1" CONDUIT FOR POWER
        - b. (1) 1-1/4" CONDUIT FOR DATA
        - c. (1) 1" CONDUIT FOR FUTURE POWER
        - d. (1) 1-1/4" CONDUIT FOR FUTURE DATA

GENERAL NOTES

- A. ALL ELECTRICAL EQUIPMENT, WIRING DEVICES, ETC. SHOWN ON THIS PLAN IN THIN LINES AND SUBSCRIPT "E" ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.
- B. ALL ELECTRICAL EQUIPMENT, WIRING DEVICES, ETC. SHOWN ON THIS PLAN IN BOLD LINES ARE NEW UNLESS NOTED OTHERWISE.
- C. ALL MATERIALS INSTALLED ABOVE CEILING MUST BE PLENUM RATED.
- D. DATA/COMMUNICATIONS RACEWAY SHALL HAVE NOT MORE THAN TWO (2) 90 DEGREE BENDS BETWEEN PULL BOXES.
- E. ALL LOW VOLTAGE CABLE (VOICE/DATA/AV, FIRE ALARM, ACCESS CONTROL, SECURITY WIRING, HVAC CONTROL, ETC.) IN EXPOSED STRUCTURE AREAS SHALL BE CONCEALED IN CONTINUOUS CONDUIT. HOMERUN ALL TO TENANT'S IT RACK/TELEPHONE TERMINAL BOARD.
- F. PROVIDE A CONTINUOUS 1" CONDUIT PATHWAY FOR ALL LOW VOLTAGE CABLE (VOICE/DATA/AV, FIRE ALARM, ACCESS CONTROL, SECURITY WIRING, HVAC CONTROL, ETC.) ROUTED ABOVE GYPSUM BOARD CEILINGS.
- G. PROVIDE FIRE ALARM INTERLOCK WITH EXTERIOR DOOR CONTROLS TO RELEASE DOORS UPON FIRE ALARM ACTIVATION.
- H. ALL WIRING TO AUTOMATIC DOOR OPERATORS SHALL BE CONCEALED WITHIN WALLS OR BEHIND DOOR TRIM.
- I. CAMERA OUTLETS ARE TO BE CEILING MOUNTED UNLESS A MOUNTING HEIGHT IS INDICATED, THEN WALL MOUNT AT HEIGHT INDICATED. CAMERA OUTLETS SHALL BE INSTALLED SIMILAR TO DATA OUTLET DETAILS. TURN OVER EXISTING CAMERAS TO OWNER FOR POSSIBLE REINSTALLATION.
- J. PROVIDE DOOR SWITCHES FOR FAN COIL CONTROLS IN THE ROOMS WITH FAN COILS.
- K. DATA CABLING SHALL BE CATEGORY 6.
- L. NEW DATA DEVICES SHALL BE RECESSED IN NEW WALLS. WHERE INSTALLED ON EXTERIOR WALLS, PROVIDE SHALLOW JUNCTION BOXES TO RECESS IN WALL. IF ANY SURFACE MOUNTED RACEWAYS IS REQUIRED, IT SHALL BE FED FROM THE FLOOR BELOW TO MINIMIZE RACEWAY ON THE WALLS.
- M. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTY SEALANT. ALL CONDUITS THAT PASS THRU RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS. REFER TO FIRE STOPPING DETAILS ON SHEET E4.1 FOR MORE INFORMATION.
- N. MAINTAIN CONDUITS AND PATHWAYS WHERE UNAFFECTED BY RENOVATED SPACES.
- O. DATA ON THIS FLOOR SHALL BE RUN ABOVE THE ACCESSIBLE CEILING USING J-HOOKS AND EXTEND THROUGH SLEEVES INTO THE LOWER LEVEL MCR.
- P. PROVIDE SEPARATE CONDUITS FOR ACCESS CONTROL FROM DATA CABLING.
- Q. RETAIN THE SERVICES OF THE EXISTING FIRE ALARM MANUFACTURER FOR SYSTEM MODIFICATIONS, REMOVAL AND NEW DEVICES ADDED TO THE EXISTING SYSTEM. THE BUILDING SHALL REMAIN OCCUPIED THROUGHOUT CONSTRUCTION AND THE FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. AT NO TIME SHALL THE FIRE ALARM SYSTEM GO INTO ALARM DUE TO CONSTRUCTION MODIFICATIONS.

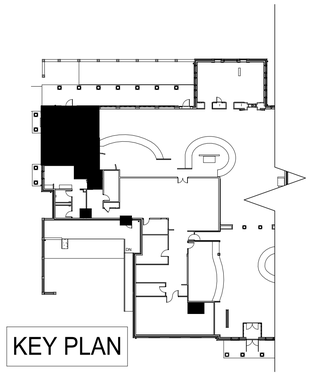
DEVICE LABELING KEY



CONNECTION TYPES:
D = DATA; D-WALL = WALL PHONE; 2D-WAP = WIRELESS ACCESS POINT; C = CAMERA;
D-DSWAP = EXTERIOR WIRELESS ACCESS POINT; V = VIDEO; D-S = STUDENT ROOM DATA

TELECOMMUNICATIONS NOTES

- A. MCR IS LOCATED IN ROOM 005A.
- B. ALL NEW DATA CABLING SHALL BE CAT 6.
- C. PROVIDE NEW PATCH PANELS AS REQUIRED FOR NEW CAT 6A DATA CABLING FOR NEW DATA DEVICES. COORDINATE FINAL LOCATION IN TR RACK WITH UNIVERSITY IT DEPARTMENT. PROVIDE NEW HORIZONTAL AND VERTICAL CABLE MANAGEMENT FOR NEW CAT 6 CABLING.



KEY PLAN

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TITLE
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SHEET NO.
E3.1

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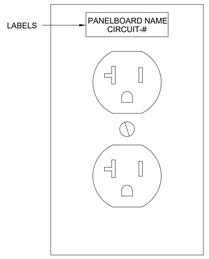
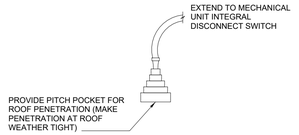


1 RECEPTACLE LABELING DETAIL

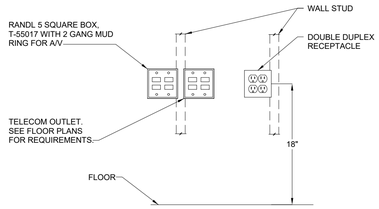
SCALE: NONE

NOTE:
- PROVIDE LABEL FOR ALL RECEPTACLE
- INDICATE PANEL AND CIRCUIT IDENTIFICATION ON COVER PLATE



2 ROOF PENETRATION DETAIL

SCALE: NONE



3 WALL RECEPTACLE DETAIL

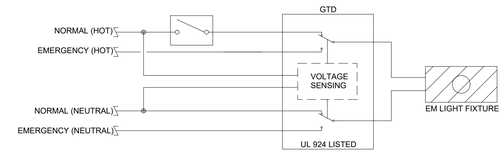
SCALE: NONE

NOTE:
- VERIFY ALL EQUIPMENT LOCATIONS PRIOR TO ROUGH-IN.

FIXTURE SCHEDULE

NOTE : FIXTURE NUMBER, LETTER PREFIX INDICATES TYPE OF MOUNTING AS FOLLOWS:
CL-CEILING MOUNTED; S-STEM SUSPENDED; W-WALL MOUNTED; R-CEILING RECESSED;
WR-WALL RECESSED; CV-COVE MOUNTED; UC-UNDER CABINET; RF-ROOF MOUNTED;
P-PENDANT; GR-GROUND; H-MOUNTED IN HOOD; C-CHAIN MOUNTED.

FIXTURE NUMBER	DESCRIPTION	MANUFACTURER (EQUALS)	CATALOG NUMBER	LAMPS: GE CATALOG NUMBER	REMARKS
R1	2'X2' LED FLAT PANEL W/ ADJUSTABLE LUMEN OUTPUT	LITETRONICS (KEYSTONE)	PST24040	40W LED (INCLUDED)	SET FIXTURE TO 4000K AND 4,400 LUMENS
-	EXISTING/RELOCATED 6" RECESSED LED DOWNLIGHT WITH 3500K, 2200 LUMENS, 0-10V DIMMING	GOTHAM (EXISTING)	EVO-35/22-6AR-MD-120	32W LED (INCLUDED)	



4 GENERATOR TRANSFER DEVICE (GTD) WIRING DIAGRAM

SCALE: NONE

DETAIL SHOWN TO CONVEY DESIGN INTENT. DEVICE MUST BE UL 924 LISTED.
VERIFY EXACT WIRING WITH MANUFACTURER'S WIRING DIAGRAMS.

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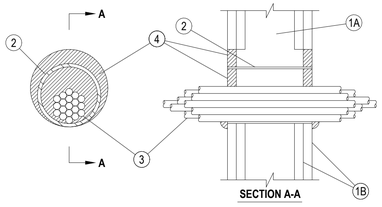
STATE OF OHIO
DOUGLAS L. POWELL
E-57325
REGISTERED PROFESSIONAL ENGINEER

01/29/2025

System No. W-L-3065

F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 and ¾ Hr (See Item 3)

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



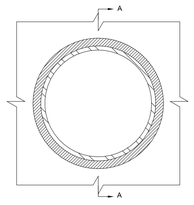
1. Wall Assembly— The 1 or 2 fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5-1/2 in. (138 mm) when sleeve (Item 2) is employed. Max diam of opening is 4 in. (102 mm) when sleeve (Item 2) is not employed. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
2. Metallic Sleeve— (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 (or heavier) steel pipe or min 0.016 in. thick (0.41 mm, No. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between steel sleeve and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25mm). When Schedule 5 steel pipe or EMT is used, sleeve may extend up to 18 in. (457 mm) beyond the wall surfaces. As an option when Schedule 5 steel pipe or EMT is used, sleeve may extend continuously beyond one wall surfaces. When cable bundle penetrates wall assembly at an angle of 45 degrees, no metallic sleeve is used.
3. Cables — Aggregate cross-sectional area of cable in opening to be max 45 percent of the cross-sectional area of the opening. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (0 mm, point contact) to max 1 in. (25 mm) Cables to be rigidly supported on both sides of the wall assembly. Cable bundle, using cables described below, may penetrate the wall at an angle not greater than 45 degrees. Any combination of the following types and sizes of copper conductor cables may be used:
A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.
B1. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.
C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of ½ in. (13 mm).
C1. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).
E. Through Penetrating Products*— Max three copper conductor No. 8 AWG .Metal-Clad Cable+.
AFC CABLE SYSTEMS INC
F. Max 3/C (with ground)(or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.
G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket.
H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.
I. Max 4/C with ground 300 kcmil (or smaller) aluminum SER cable with PVC insulation and jacket.
J. Through Penetrating Product* - Any cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category.
K. Maximum 3/C No. 8 AWG metal-clad cable.
L. Maximum 5/8 diam fiber-optic cable with PVC jacket.
For cable bundle penetrating the wall assembly at an angle of 45 degrees, the T rating is ¾ hr for a 2 hr wall assembly.
See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.
4. Fill, Void or Cavity Material*– Sealant or Putty— Fill material applied within the annulus, flush with each end of the steel sleeve or wall surface. Fill material installed symmetrically on both sides of the wall. A min 5/8 in. (16 mm) thickness of sealant is required for the 1 or 2 hr F Rating . An additional 1/2 in. (13 mm) diam bead of fill material shall be applied around the perimeter of sleeve on both sides of the wall when sleeve extends beyond surface of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC— CP601S, CP606, FS-One Sealants or CP618 Putty
*Bearing the UL Classification Mark
+Bearing the UL Listing Mark

UL/CUL SYSTEM NO. WL1085

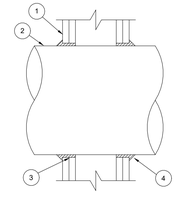
METAL PIPE THROUGH 1-HR, OR 2-HR, GYPSUM WALL ASSEMBLY

F RATING = 1-HR, OR 2-HR.
T RATING = 0-HR
L RATING AT AMBIENT = LESS THAN 1CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT..

FRONT VIEW



SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN).

2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE.
C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
D. MAXIMUM 6" NOMINAL DIAMETER EMT.
E. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.

3. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE.

4. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT TO BE INSTALLED AROUND PIPE, LAPPING 1/4" BEYOND PERIPHERY OF OPENING

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 13-1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

5 RATED PENETRATION DETAIL

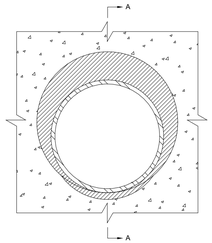
SCALE: NONE

UL/CUL SYSTEM NO. CAJ1154

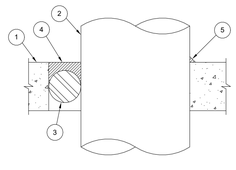
METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3-HR
T RATING = 1/4-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

TOP VIEW



SECTION A-A



1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.

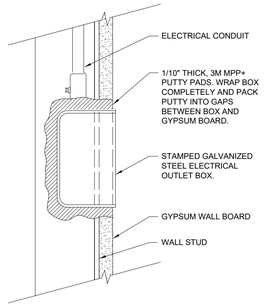
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
D. MAXIMUM 4" NOMINAL DIAMETER EMT.

3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.

4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.

5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 14".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 3-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.



6 PUTTY PAD FIRE STOPPING DETAIL

SCALE: NONE

1 HOUR OR 2 HOUR WALL RATING

PRATER ENGINEERING ASSOCIATES
6130 Wilcox Road
Dublin, Ohio 43016
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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
L.POWELL	L.POWELL	D.POWELL	24213

Miami University
NOURISH
95 N. Patterson Road, Oxford, OH 45056

ISSUE

NO.	DATE	DESCRIPTION
	12/16/2024	CD REVIEW
	01/29/2025	BID & PERMIT

DATE	01/29/2025
JOB NO.	4249.00
DRAWN	MES/LJY
CHECKED	-

TITLE
ELECTRICAL SCHEDULES AND DETAILS

SHEET NO.
E4.1

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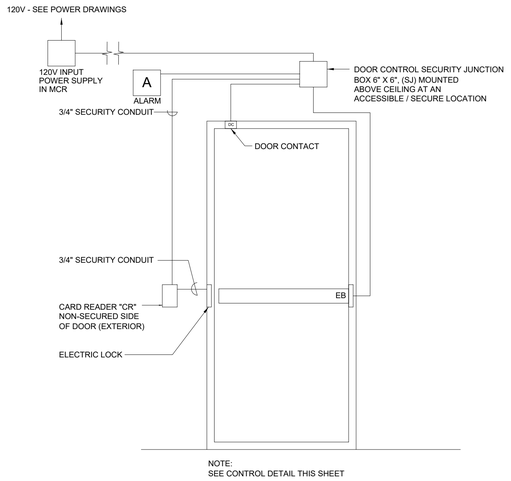
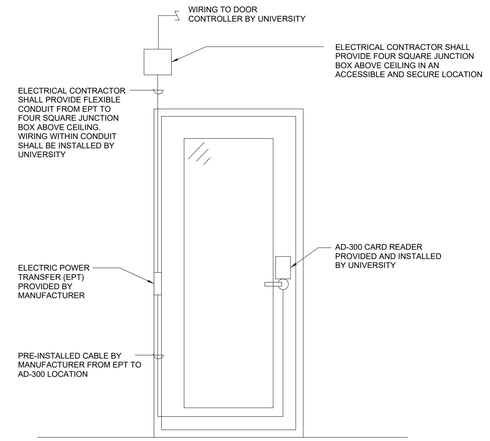


SELECT EXTERIOR & INTERIOR DOORS

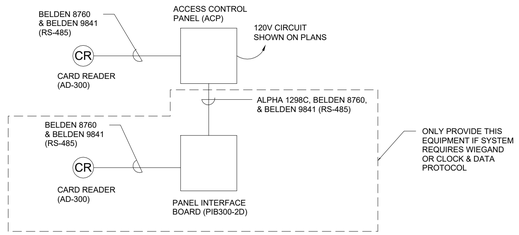
1 TYPICAL ACCESS CONTROL DOOR ELEVATION 1

SCALE: NONE



2 TYPICAL ACCESS CONTROL DOOR ELEVATION 2

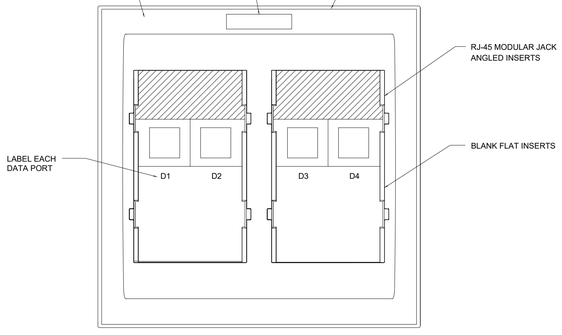
SCALE: NONE



3 AD300 ACCESS CONTROL DOOR DIAGRAM

SCALE: NONE

NOTES:
1. ALL CABLES SHALL BE INSTALLED CONCEALED FROM DEVICE TO CEILING CAVITY
2. ALL CABLES SHALL BE INSTALLED IN 1" CONDUIT FROM ABOVE CEILING TO ACCESS CONTROL PANEL OR PANEL INTERFACE BOARD.
3. COORDINATE LOCATION OF ACCESS CONTROL PANEL AND PANEL INTERFACE BOARD WITH OWNER PRIOR TO ROUGH-IN.
4. EQUIPMENT IS BASED ON SCHLAGE.



4 TYPICAL DATA OUTLET DETAIL

SCALE: NONE

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Miami University

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TITLE
ELECTRICAL SCHEDULES AND DETAILS

SHEET NO.
E4.2

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Dublin, Ohio 43016
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DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
L.POWELL	L.POWELL	D.POWELL	24213

12/6/2025 3:43:31 PM

Panel ID:	K5			Voltage:	208	/	120		Panel Type:	NEW			
Location:	CORRIDOR 120			Phase:	3				Enclosure:	NEMA-1			
Mounting:	FLUSH			Wire:	4								
Main Type:	M.L.O.			Main Size:	225	Amps							

** = Refer to one line diagram for wire sizes.
All circuit breakers shall be standard bolt-on type, unless noted otherwise.

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	CONN. LOAD (KVA)	CKT NO.	CKT NO.	CONN. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	NOURISH ITEM 111A	20/1	GF	0.960	1	2	1.400	-	20/1	KITCHEN HOOD	12	12
12	12	NOURISH ITEM 111B	20/1	GF	0.960	3	4	1.820	GF	20/1	NOURISH ITEM 116	12	12
12	12	NOURISH ITEM 115	20/1	GF	0.820	5	6	1.223	-	20/3	EF-10	12	12
12	12	NOURISH VEG REC 1	20/1	GF	0.800	7	8	1.223	-	-	---	12	-
12	12	NOURISH VEG REC 2	20/1	GF	0.800	9	10	1.223	-	-	---	12	-
12	12	NOURISH ITEM 111B	20/1	GF	0.960	11	12	0.180	-	20/1	EF-11	12	12
10	10	NOURISH ITEM 109	20/1	GF	0.360	13	14	2.880	GF	30/3	NOURISH ITEM 120	10	10
10	10	NOURISH ITEM 110	20/1	GF	0.320	15	16	2.880	-	-	---	10	-
10	10	NOURISH ITEM 107	20/1	GF	0.550	17	18	2.880	-	-	---	10	-
10	4	NOURISH ITEM 119	60/3	-	6.300	19	20	0.360	GF	20/1	NOURISH KDS REC	10	10
-	4	---	-	-	6.300	21	22	0.360	GF	20/1	NOURISH KDS+PRINTER REC	10	10
-	4	---	-	-	6.300	23	24	0.460	GF	20/1	NOURISH ITEM 151 1	12	12
8	4	DOAS-1	80/3	-	9.500	25	26	0.460	GF	20/1	NOURISH ITEM 151 2	12	12
-	4	---	-	-	9.500	27	28	1.700	GF	20/1	NOURISH ITEM 108	10	10
-	4	---	-	-	9.500	29	30	0.450	-	20/2	NOURISH ITEM 117 2A	12	12
12	12	RM 117,18,19 REC	20/1	-	0.720	31	32	0.450	-	-	---	12	-
12	12	NOURISH ITEM 117 1A	20/2	-	0.450	33	34	0.450	-	20/2	NOURISH ITEM 117 2B	12	12
-	12	---	-	-	0.450	35	36	0.450	-	-	---	12	-
12	12	NOURISH ITEM 117 1B	20/2	-	0.450	37	38	2.150	-	30/2	NOURISH ITEM 152 1	10	10
-	12	---	-	-	0.450	39	40	2.150	-	-	---	10	-
12	12	MAINTENANCE REC	20/1	-	0.360	41	42	2.150	-	30/2	NOURISH ITEM 152 2	10	10
-	-	SPARE	20/1	-	0.000	43	44	2.150	-	-	---	10	-
-	-	SPARE	20/1	-	0.000	45	46	0.000	-	20/1	SPARE	-	-
-	-	SPACE	-	-	0.000	47	48	0.000	-	20/1	SPARE	-	-
-	-	SPACE	-	-	0.000	49	50	0.000	-	-	SPACE	-	-
-	-	SPACE	-	-	0.000	51	52	0.000	-	-	SPACE	-	-
-	-	SPACE	-	-	0.000	53	54	0.000	-	-	SPACE	-	-

Demand Load Panel Summary
67.8 KVA
188.1 AMPS

Connected Load Panel Summary
PHASE A: 30.2 KVA
PHASE B: 29.4 KVA
PHASE C: 26.7 KVA
Total: 86.3 KVA 239.4 AMPS

Breaker Options (If Used):
TC - Time Clock Control
LO - Lock-On Device
GF - GND Fault CKT Interrupter
IG - Isolated ground
SH - Shunt Trip Breaker

NOTE: Minimum breaker AIC to MATCH existing.

CIRCUIT IDENTIFICATION

CIRCUIT IDENTIFICATION REQUIREMENTS

A. ALL DISCONNECTING MEANS SHALL BE MARKED TO INDICATE ITS SPECIFIC PURPOSE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

B. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES FOR ALL LIGHTING AND APPLIANCE PANELBOARDS. PROVIDE CIRCUIT IDENTIFICATION LABELS AT EACH SWITCH AND/OR CIRCUIT BREAKER IN SWITCHBOARDS, DIRECTORIES AND IDENTIFICATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE. EVERY NEW CIRCUIT OR ALTERED CIRCUIT SHALL BE IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE AND USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHER CIRCUITS. DO NOT COPY THESE SCHEDULES AS FINAL PANELBOARD INDEX INFORMATION.

C. FIELD COORDINATE FINAL CIRCUIT NUMBERS SHOWN IN CONJUNCTION WITH THE EXISTING TO REMAIN CIRCUITS. UPON COMPLETION OF THE DEMOLITION PHASE THIS CONTRACTOR SHALL IDENTIFY THE EXISTING TO REMAIN CIRCUITS AND ALTER THE FINAL CIRCUITS NUMBERS TO ACCOMMODATE THE REMAINING CIRCUITS. MAINTAIN THE CIRCUIT DENSITY SHOWN ON THE ELECTRICAL DRAWINGS.

D. PROVIDE ALL RECEPTACLES WITH LABEL NOTING ITS BRANCH CIRCUIT AND RECEPTACLE TYPE. REFER TO RECEPTACLE LABELING DETAIL ON SHEET E4.1.

FEEDER SCHEDULE

DESIG.	C.B. OR FUSE SIZE	FEEDER SIZE
1	225 AMP	4-#4/0 & 1-#4 GRD IN 2.5"C. COPPER

WIRING LEGEND
4 - 350 & 350 - 3"
NO. OF CONDUCTORS
SIZE OF CONDUCTORS
SIZE OF CONDUIT
SIZE OF GROUND CONDUCTOR

GENERAL NOTES

A. NOTE THAT ALL EXISTING ELECTRICAL EQUIPMENT ARE FROM FIELD OBSERVATIONS. ACTUAL CONDITIONS MAY VARY AND MUST BE VERIFIED BY THIS CONTRACTOR WHO SHALL MAKE MINOR ADJUSTMENTS AS NECESSARY TO COMPLETE INSTALLATION OF ALL NEW WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER FOR REDIRECTION AS REQUIRED.

B. PROVIDE ARC FLASH STUDY AND WARNING LABELS ON PANELS, DISCONNECTS, ETC.

C. PROVIDE LABELS WITH MAXIMUM AVAILABLE FAULT CURRENT AND DATE OF CALCULATION AT SERVICE ENTRANCE EQUIPMENT.

D. BRANCH CIRCUIT FEEDS SHALL BE IN SEPARATE CONDUIT BETWEEN FLOORS.

E. PROVIDE FUSING AS INDICATED AND AN ADDITIONAL 3 FUSES RATED 30E FOR SPARES.

F. ALL ELECTRICAL CONDUCTORS SHALL BE COPPER ONLY.

G. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE COPPER.

CODED NOTES

1. DISCONNECT AND REMOVE EXISTING 100AMP 3 POLE BREAKER AND INSTALL NEW 225AMP 3 POLE BREAKER IN ITS PLACE - TURN OVER EXISTING BREAKER OVER TO OWNER AFTER REMOVAL. EXISTING DISTRIBUTION PANEL "MDP" IS A EATON POW-R-LINE P4A.

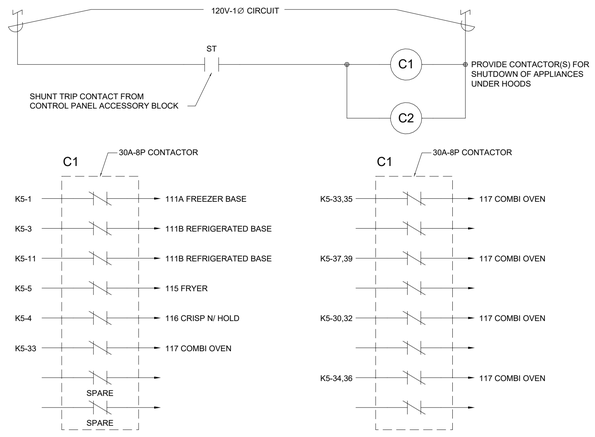
LOAD SUMMARY PNL MDP

DESCRIPTION: 800 AMP (MAIN) PANEL

PEAK DEMAND:
kW 122.0
kVA 152.5
AMPS (AT 208V SERVICE EQUIPMENT) 423.3

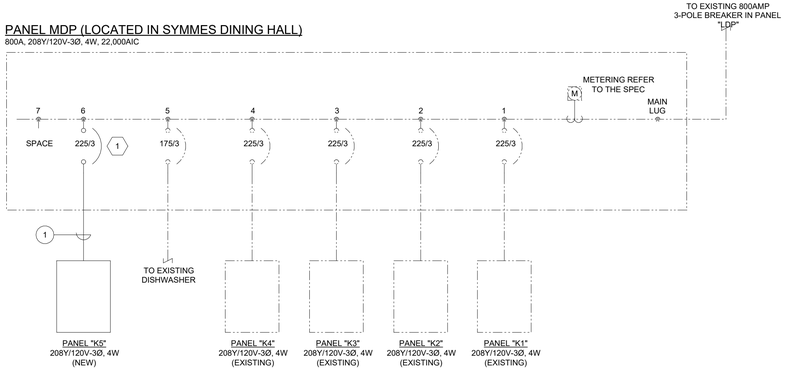
TOTAL BUILDING LOAD CALCULATION WITH NEW LOAD:
kVA 236.4
AMPS (AT 208V SERVICE EQUIPMENT) 656.2

*PEAK DEMAND OCCURRED FEBRUARY 28, 2024.



KITCHEN EQUIPMENT SHUNT TRIP CONTROL DIAGRAM

SCALE: NONE
MOUNT CONTACTORS IN NEMA-3R ENCLOSURES.



PARTIAL ONE LINE DIAGRAM

SCALE: NONE

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REGISTERED PROFESSIONAL ENGINEER
01/29/2025

Miami University
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DRAWN	MES/LJY
CHECKED	-

TITLE
ELECTRICAL PANEL SCHEDULES AND ONE LINE

SHEET NO.
E4.3

PRATER ENGINEERING ASSOCIATES
6130 Wilcox Road
Dublin, Ohio 43016
Phone: (614) 766-4896 Fax: (614) 766-2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
L.POWELL	L.POWELL	D.POWELL	24213

1/29/2025 11:34:50 AM