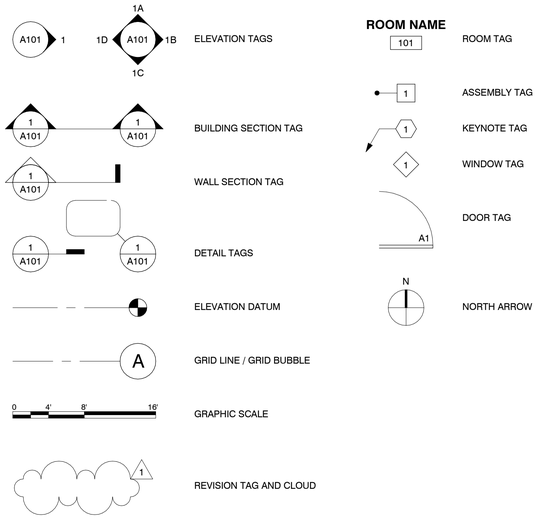
NICK FISH TI - MERKATO

ABBREVIATIONS

@	AT
AC	AIR CONDITIONING / ACRES
ADJ	ADJUSTABLE
AED	AUTOMATED EXTERNAL DEFIBRILLATOR
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BD	BOARD
BM	BEAM
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
COMM	COMMUNICATION(S)
CONC	CONCRETE
CONT	CONTINUOUS
DBL	DOUBLE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
E	EXISTING
EA	EACH
ELEC	ELECTRICAL
EQ	EQUAL
EXT	EXTERIOR
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET (FIRE EXTINGUISHER)
FND	FOUNDATION
FOS	FACE OF STUD
FSAMF	FORMABLE SELF-ADHERED MEMBRANE FLASHING
FT	FEET
GA	GAUGE OR GYPSUM ASSOCIATION
GALV	GALVANIZED OR GALVANIC
GFRC	GLASS FIBER REINFORCED CONCRETE
GYP	GYPSUM BOARD
HR	HOUR
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR'S CLOSET
MAX	MAXIMUM
MDF	MEDIUM-DENSITY FIBERBOARD
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MIRR	MIRROR
MTL	METAL
N	NEW
N/A	NOT APPLICABLE
NO	NUMBER
NR	NON RATED
NTS	NOT TO SCALE
OC	ON CENTER
OCC	OCCUPANT(S), OCCUPANCY(IES)
OD	OVERFLOW DRAIN
OLF	OCCUPANT LOAD FACTOR
OPP	OPPOSITE
OSSC	OREGON STRUCTURAL SPECIALTY CODE
PERF	PERFORATED / PERFORATION
PL	PROPERTY LINE, PLATE
PLAM	PLASTIC LAMINATE
PLWD	PLYWOOD
PNT	PAINT
PT	PRESERVATIVE TREATED
PTHP	PACKAGE TERMINAL HEAT PUMP
QTY	QUANTITY
R	RISER, RADIUS
RD	ROOF DRAIN
REF	REFER, REFERENCE
REFR	REFRIGERATOR
REQ'D	REQUIRED
RM	ROOM
RO	ROUGH OPENING
RR	RESTROOM
SAMF	SELF-ADHERED MEMBRANE FLASHING
SF	SQUARE FOOT
SHTHGN	SHEATHING
SIM	SIMILAR
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STL	STEEL
STOR	STORAGE
T	TREAD
T & G	TONGUE AND GROOVE
TO	TOP OF
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VFY	VERIFY
W	WASHER
W/	WITH
WC	WATER CLOSET
WRB	WEATHER-RESISTIVE BARRIER

SYMBOLS



ELEVATION TAGS

BUILDING SECTION TAG

WALL SECTION TAG

DETAIL TAGS

ELEVATION DATUM

GRID LINE / GRID BUBBLE

GRAPHIC SCALE

REVISION TAG AND CLOUD

ROOM TAG

ASSEMBLY TAG

KEYNOTE TAG

WINDOW TAG

DOOR TAG

NORTH ARROW

GENERAL NOTES

1. EMERGENCY EGRESS LIGHTING TO BE PROVIDED THROUGHOUT CORRIDORS AND PATHS OF EGRESS TO EXTERIOR LANDING OF EGRESS DOORS. MINIMUM LIGHT LEVELS OF 1 FOOTCANDLE SHALL BE PROVIDED AND SHALL HAVE 90 MINUTE BATTERY BACKUP AUXILIARY POWER. SEE ELECTRICAL PLANS FOR LIGHTING LAYOUT.
2. ANY INSTALLATION DETAILS FOR FIRE AND LIFE SAFETY SYSTEMS (FIRE SPRINKLERS, FIRE ALARM SYSTEMS, UNDERGROUND FIRE LINES, FIXED EXTINGUISHING SYSTEMS) ARE FOR REFERENCE ONLY. WITH FINAL INSTALLATION REQUIREMENTS TO BE DETERMINED DURING THE PLAN REVIEW PROCESS AT THE FIRE MARSHAL'S OFFICE.
3 IF COORDINATION OF ARCHITECTURAL, CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER ELEMENTS RESULT IN CONFLICTS NOTIFY ARCHITECT IMMEDIATELY PRIOR TO COMMENCING ANY WORK OF ELEMENTS RESULTING IN CONFLICTS.
4. IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, CONTRACT DOCUMENTS, SPECIFICATIONS, EXISTING CONDITIONS, AND/OR REFERENCE STANDARDS; THE ARCHITECT AND/OR ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONALS AND OBTAIN CLARIFICATION PRIOR TO BIDDING AND PROCEEDING WITH WORK.
5 FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO PRECEEDING WITH THE WORK.
6 DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS, DO NOT SCALE DRAWINGS, NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK
7 CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF SUBCONTRACTOR WORK, COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS, AND ACCURATE LOCATION OF STRUCTURAL MEMBERS, OPENINGS FOR, ELECTRICAL AND MISCELLANEOUS EQUIPMENT. CONTRACTOR SHALL VERIFY DIMENSIONS AND OPENING SIZES (CLEARANCES REQUIRED) FROM THE MANUFACTURERS PRIOR TO CONSTRUCTION FO OR INSTALLATION OF EQUIPMENT, FURNISHINGS, AND ACCESSORIES.
8 EMPLOYEE WORK AREAS SHALL ONLY BE REQUIRED TO COMPLY WITH SECTIONS 907.5.2.3.1, 1009 AND 1104.3.1 OF OSSC. EXCEPTION FOR 907.5.2.3.1 IS APPLICABLE WHERE EMPLOYEE WORK AREAS HAVE AUDIBLE ALARM COVERAGE, THE CONITIFICATION APPLIANCE CIRCUTIS SERVING THE EMPLOYEE WORK AREAS SHALD BE INITIALLY DESIGN WITH NOT LEASS THAN 20 PERCENT SPARE CAPACITY TO ACCOUNT FOR THE POTENTIAL OF ADDING VISIBLE NOTIFICATION APPLIANCES IN THE FUTURE TO ACCOMMODATE HEARING-IMPAIRED EMPLOYEE(S).

DEFERRED SUBMITTALS

1. ACOUSTICAL CEILING

SEPARATE PERMITS

1. FIRE SPRINKLER
2. FIRE ALARM
3. EXTERIOR SIGNAGE

PROJECT TEAM

CLIENT
PROSPER PORTLAND
220 NW 2ND AVE #200
PORTLAND, OR 97209
PHONE: 503.823.3200
CONTACT: KEVIN FLAGG

TENANT
MERKATO ETHIOPIAN RESTAURANT & STORE
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ARCHITECT
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CONTACT: MARK DENYER

COMMERCIAL KITCHEN CONSULTANT
JBK CONSULTING AND DESIGN, INC
7325 NE IMBRIE DRIVE #109
HILLSBORO, OR 97124
PHONE:
503-686-8958
CONTACT: JILL BIERMAN, PRESIDENT

PROJECT DESCRIPTION

TENANT IMPROVEMENT OF GROUND LEVEL RETAIL STOREFRONT UNIT AT THE NICK FISH BLDG. RETAIL STOREFRONT WILL BE A MEAT MARKET WITH A RESTAURANT AND A COMMERCIAL KITCHEN.

APPLICABLE CODES

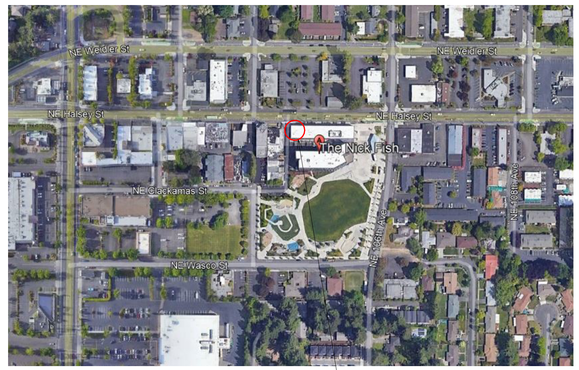
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2025 OREGON MECHANICAL SPECIALTY CODE (OMSC)
2025 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)
2023 OREGON PLUMBING SPECIALTY CODE (OPSC)
2023 OREGON ELECTRICAL SPECIALTY CODE (OESC)
2025 OREGON FIRE CODE / 2021 PORTLAND FIRE CODE
2022 ASHRAE 90.1

OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (OSHA)
ADA STANDARDS – AMERICANS WITH DISABILITIES ACT
2024 NFPA 101 – LIFE SAFETY CODE
NSF 61 FOR LOW LEAD COMPLIANCE
ELECTRONIC INDUSTRIES ALLIANCE/TELECOM INDUSTRY ASSOC. (EIA/TIA) STANDARDS 568 & 569
IEEE STANDARDS
ILLUMINATING ENGINEERING SOCIETY (IES) LIGHTING HANDBOOK 10TH ED.
NATIONAL ELECTRICAL SAFETY CODE (NESC) 2017
UNDERWRITER LABORATORIES STANDARDS

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GENERAL	
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G012	FIRE & LIFE SAFETY PLANS
ARCHITECTURAL	
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A202	LEVEL 01 FINISH PLAN
A610	ENLARGED PLANS & INT ELEVATIONS
A701	LEVEL 01 REFLECTED CEILING PLANS
A811	SCHEDULES AND ASSEMBLIES
A850	ACCESSIBILITY DETAILS
A855	INTERIOR DETAILS
PLUMBNG	
P001	PLUMBING LEGEND AND SCHEDULES
P200	PLUMBING UNDER SLAB PLAN
P201	LEVEL 01 PLUMBING PLAN
P301	PLUMBING ROOF PLAN
P501	ISOMETRIC GAS DIAGRAM
P601	PLUMBING DETAILS
P602	PLUMBING CUT SHEETS
MECHANICAL	
M001	MECHANICAL CODES, LEGENDS & SCHEDULES
M201	LEVEL 01 MECHANICAL PLAN
M202	ROOF MECHANICAL PLAN
M301	MECHANICAL PIPING & STAT PLAN - LEVEL 01
M401	MECHANICAL PLAN - ROOF
M601	MECHANICAL DETAILS
ELECTRICAL	
E001	ELECTRICAL LEGEND
E201	LEVEL 01 LIGHTING PLAN
E301	ELECTRICAL PLAN
COMMERCIAL KITCHEN	
K101	LEVEL 01 FOODSERVICE EQUIPMENT PLAN
K102	LEVEL 01 FOODSERVICE PLUMBING PLAN
K103	LEVEL 01 FOODSERVICE ELECTRICAL
K104	LEVEL 01 FOODSERVICE SPECIAL CONDITIONS
K200	LEVEL 01 FOODSERVICE ELEVATIONS
K201	LEVEL 01 FOODSERVICE ELEVATION DETAILS
K301	LEVEL 01 FOODSERVICE HOOD NOTES
K302	LEVEL 01 FOODSERVICE HOOD PLANS
K303	LEVEL 01 FOODSERVICE HOOD FIRE PROTECTION
K304	LEVEL 01 FOODSERVICE HOOD CONTROLS
K305	LEVEL 01 FOODSERVICE HOOD WIRING DIAGRAMS
K306	LEVEL 01 FOODSERVICE HOOD DCV CONTROLS

VICINITY MAP



SITE

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REGISTERED ARCHITECT
4668
JENNIFER ANN NYE
PORTLAND, OR
STATE OF OREGON

PROJECT NUMBER: 2429a

NICK FISH TI - MERKATO

10560 NE HALSEY ST, PORTLAND, OR 97220

CLIENT:

PROSPER PORTLAND

220 NW 2ND AVE, SUITE 200, PORTLAND, OR 97209

PROSPER PORTLAND

PHASE:

PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

COVER SHEET

DRAWN BY:	EF/JL
CHECKED BY:	JN
DATE CREATED:	05.15.26

SHEET:

G001

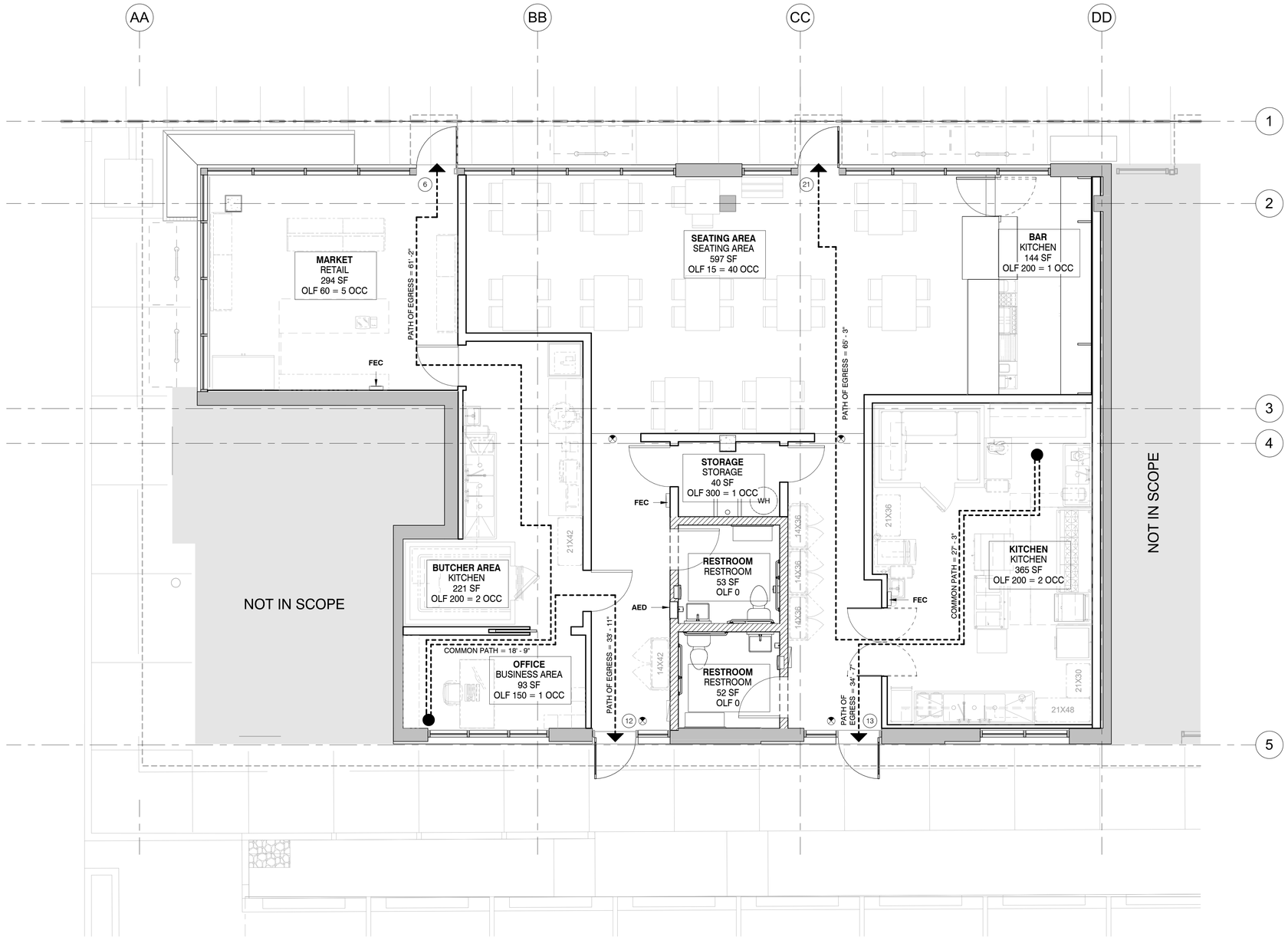
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OCCUPANT LOAD

OCCUPANCY CLASSIFICATION	FUNCTION OF SPACE	NAME	AREA	OLF	OCCUPANT LOAD
B	BUSINESS AREA	OFFICE	93 SF	150	1
A-2	KITCHEN	BAR	144 SF	200	1
A-2	KITCHEN	BUTCHER AREA	221 SF	200	2
A-2	KITCHEN	KITCHEN	365 SF	200	2
A-2	RESTROOM	RESTROOM	105 SF	0	0
M	RETAIL	MARKET	294 SF	60	5
A-2	SEATING AREA	SEATING AREA	597 SF	15	40
S	STORAGE	STORAGE	40 SF	300	1
			1859 SF		52



FLS LEGEND

MIN EGRESS PATH WIDTH
44" MIN AT CORRIDORS (0.2" PER OCC)
36" MIN AT OTHER COMPONENTS (0.2" PER OCC)

PATH OF EMERGENCY EGRESS TRAVEL
A-2 OCCUPANCY MAX = 250'

COMMON PATH OF EMERGENCY EGRESS TRAVEL
A-2 OCCUPANCY MAX = 75'

FEC FIRE EXTINGUISHER CABINET (EXACT LOCATION TO BE CONFIRMED BY THE FIRE MARSHAL) - SURFACE MOUNT FEC AT CONCRETE AND CMU WALLS UNO

AED AUTOMATED EXTERNAL DEFIBRILLATOR (EXACT LOCATION TO BE CONFIRMED DURING CONSTRUCTION)

(40) OCCUPANT LOAD AT EXIT

EXIT SIGN WITH INTEGRATED DIRECTIONAL ARROW WHERE SHOWN. SOLID SECTIONS INDICATE THE SIDE WITH THE "EXIT" TEXT. PROVIDE AT ALL EXITS, EVERY 100' IN CORRIDORS, AND IN SPACES WHERE 2 OR MORE EXITS ARE REQUIRED (1013). SEE ELECTRICAL DRAWINGS. SIGNS SHOWN IN CORRIDORS ARE CEILING HUNG AND SIGNS SHOWN ON WALLS ARE WALL HUNG UNO.

EXISTING WALLS WITH INSULATION, INSTALL GYPSUM BOARD

EXISTING WALL FRAMING, INSTALL NEW INSULATION AND GYPSUM BOARD

NEW WALLS

NOT IN SCOPE

CODE SUMMARY

CONSTRUCTION TYPE:	IA
OCCUPANCY:	M + B
AUTOMATIC SPRINKLER SYSTEM:	NFPA 13
FLOOR FIRE RATING:	3-HR (PT SLAB ABOVE)
ROOF FIRE RATING:	NON-RATED (T&G WOOD DECK)

N

0 2' 4' 8'

1 G012 **LEVEL 01 FLS PLAN**
1/4" = 1'-0"

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REGISTERED ARCHITECT 4668 JENNIFER ANN NYE PORTLAND, OR STATE OF OREGON

PROJECT NUMBER: 2429a

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PROSPER PORTLAND

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PROSPER PORTLAND

PHASE:

PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

FIRE & LIFE SAFETY PLANS

DRAWN BY:	EF/AP
CHECKED BY:	EF/JN
DATE CREATED:	05.15.26

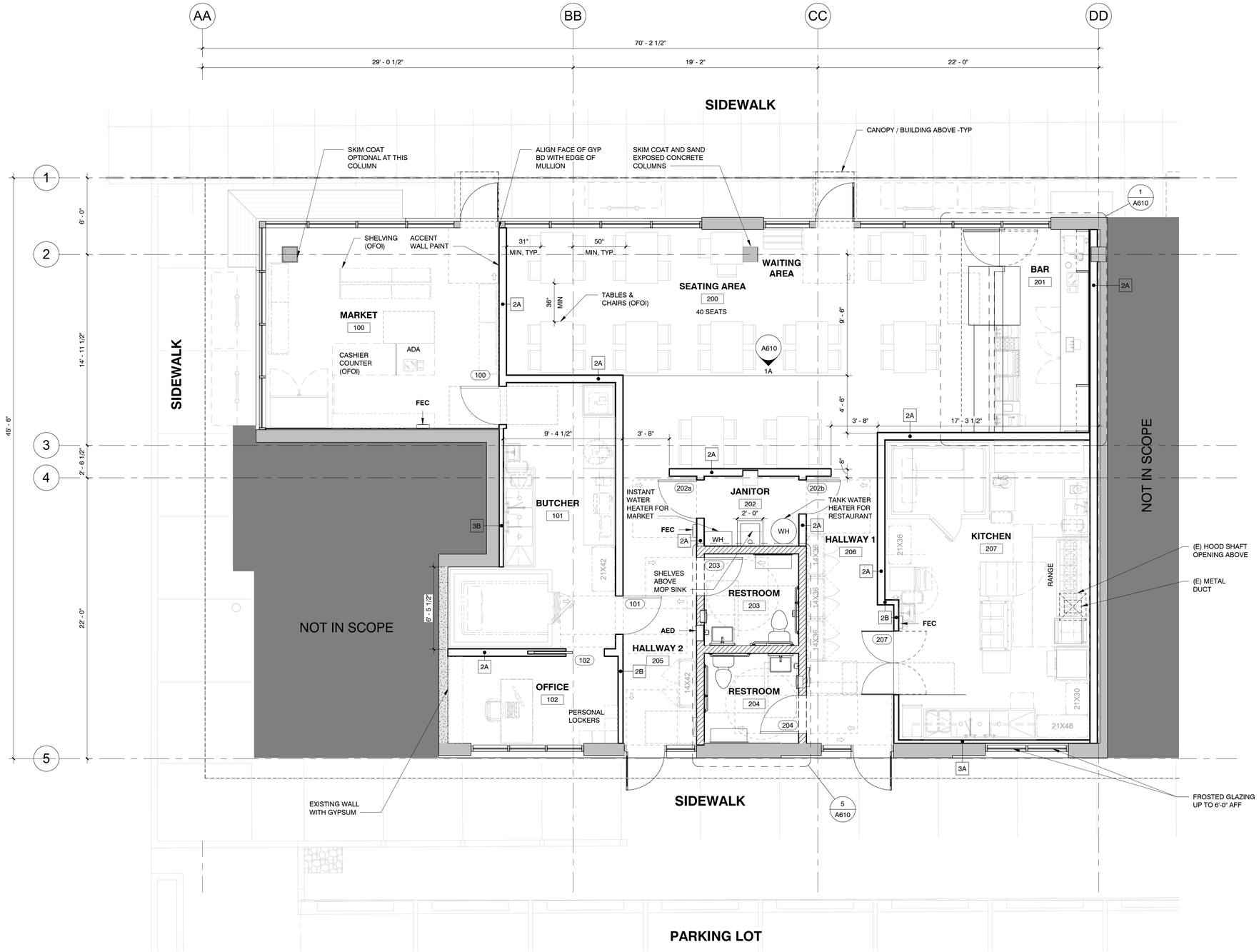
SHEET:

G012

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1 A201 **LEVEL 01 FLOOR PLAN**

1/4" = 1'-0"

GENERAL NOTES

A. SEE **A850** FOR STANDARD ACCESSIBILITY REQUIREMENTS.
B. SEE ENLARGED PLANS FOR ADDITIONAL INFORMATION.
C. ALL DIMENSIONS ARE TO FACE OF STUD UNO OR CENTER OF COLUMN, EXTERIOR DIMENSIONS ARE TO FACE OF FOUNDATION/FACE OF FRAMING. DIMENSIONS INDICATED AS "CLR" ARE TO FACE OF FINISH UNO.
D. ALL DOOR OPENINGS PERPENDICULAR TO A WALL ARE 4" TO FACE OF PERPENDICULAR TO STUD UNO.
E. ALL FIXTURES, FURNISHINGS & EQUIPMENT NOT IN CONTRACT SHOWN DASHED OR SCREENED FOR REFERENCE ONLY.
F. DASHED BOXES AND CIRCLES ON PLAN DESIGNATE REQUIRED ACCESSIBLE OR EQUIPMENT CLEAR FLOOR SPACE.
G. JANITOR CLOSET, RESTROOMS, KITCHEN, AND BUTCHERING AREA TO HAVE WATER RESISTANT GYP BOARD AT WALLS.
H. SEE **A850** FOR FIXTURE AND ACCESSORY MOUNTING HEIGHTS, BLOCKING AND CLEARANCES
I. SEE K101 DRAWINGS FOR EQUIPMENT INFORMATION.
J. SEE PLUMBING AND FOODSERVICE PLANS FOR FLOOR SINK AND DRAIN LOCATIONS.
K. EMPLOYEE BREAK AREA TO USE RESTAURANT SEATING FOR EATING AND DRINKING.
L. GARBAGE COLLECTION IN SHARED COMMON ROOM 111 FOR THE BUILDING. 6 YD DUMPSTER LOCATED APPROXIMATELY 200' FROM DOOR CLOSEST TO KITCHEN.
M. WALL/FLOOR, WALL/WALL, AND WALL/CEILING JUNCTIONS TO BE TIGHTLY JOINED AND SEALED IN KITCHEN, BUTCHER, AND BAR AREAS.
N. EXTERIOR OPENINGS NOT IN SCOPE. CONTRACTOR TO CONFIRM EXTERIOR DOORS ARE RODENT PROOF (CLEARANCE SHOULD NOT EXCEED 1/4"), AND ALL OPENINGS TO THE OUTER AREA ARE SCREENED TO PREVENT FLY ACCESS (INCLUDES VENTILATION PORTS).

LEGEND

- NOT IN SCOPE
- EXISTING WALLS WITH INSULATION, INSTALL GYPSUM BOARD
- EXISTING WALL FRAMING, INSTALL NEW INSULATION AND GYPSUM BOARD
- EXISTING WALL WITH GYPSUM BOARD AND INSULATION
- NEW WALLS

N

0 2' 4' 8'

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PERMIT SET

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LEVEL 01 PLAN

DRAWN BY:	JL/EF/CK
CHECKED BY:	EF/JN
DATE CREATED:	05.15.26

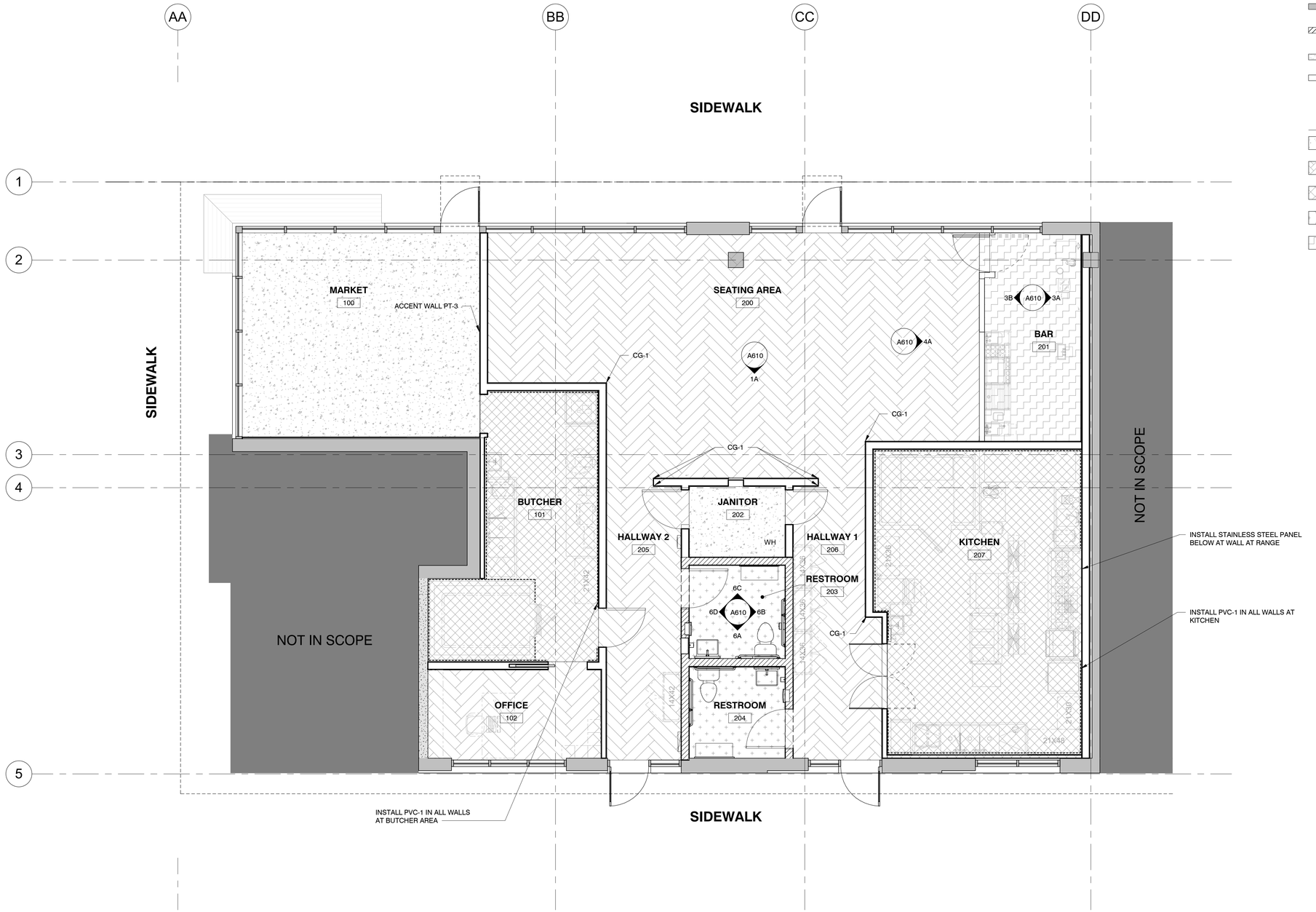
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A201

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1 A202 **LEVEL 01 FINISH PLAN**
1/4" = 1'-0"

FINISH PLAN NOTES

1. SEE **A811** FOR ADDITIONAL ROOM FINISHES
2. INSTALL FLOORING TRANSITION STRIP BETWEEN ALL DISSIMILAR FLOOR FINISHES.
3. INSTALL CORNER GUARDS (CG-1) AS INDICATED IN DRAWINGS, SEE SPECS FOR MATERIAL DETAILS.

LEGEND

- NOT IN SCOPE
- EXISTING WALLS WITH INSULATION, INSTALL GYPSUM BOARD
- EXISTING WALL FRAMING, INSTALL NEW INSULATION AND GYPSUM BOARD
- EXISTING WALL WITH GYPSUM BOARD AND INSULATION
- NEW WALLS

FLOOR FINISH LEGEND

- CONC-1 SEALED CONCRETE
- LVT-1 LUXURY VINYL TILE FLOORING
- EP-1 EPOXY FLOORING
- SV-1 SHEET VINYL FLOORING
- SV-2 SHEET VINYL FLOORING

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10560 NE HALSEY ST, PORTLAND, OR 97220

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220 NW 2ND AVE, SUITE 200, PORTLAND, OR 97209

PROSPER PORTLAND

PHASE:

PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 01 FINISH PLAN

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CHECKED BY:	EF/JN
DATE CREATED:	05.15.26

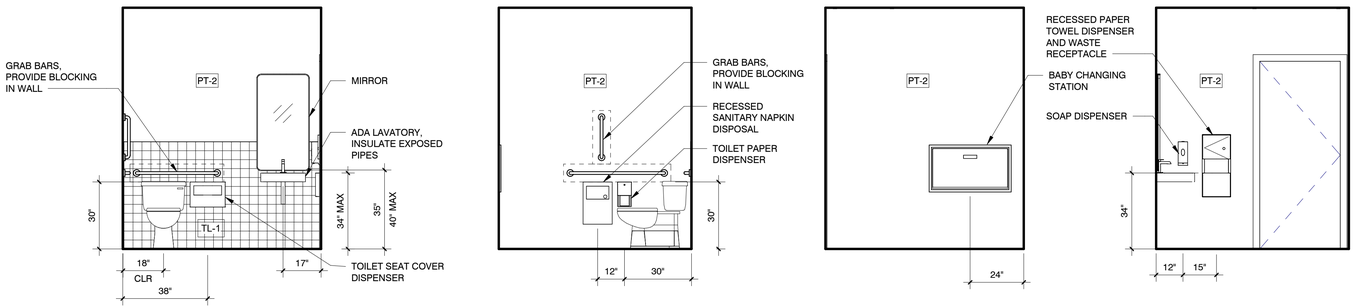
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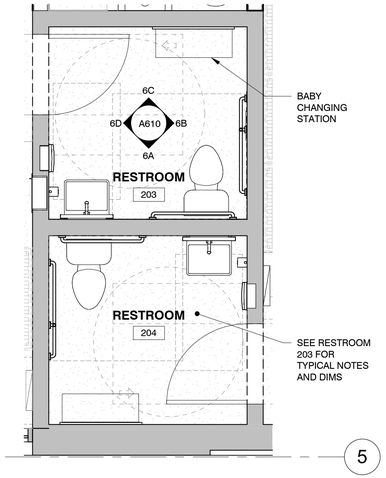
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6A 6B 6C 6D

RESTROOM ELEVATIONS

A610 3/8" = 1'-0"



5 A610 ENLARGED PLAN - RESTROOMS

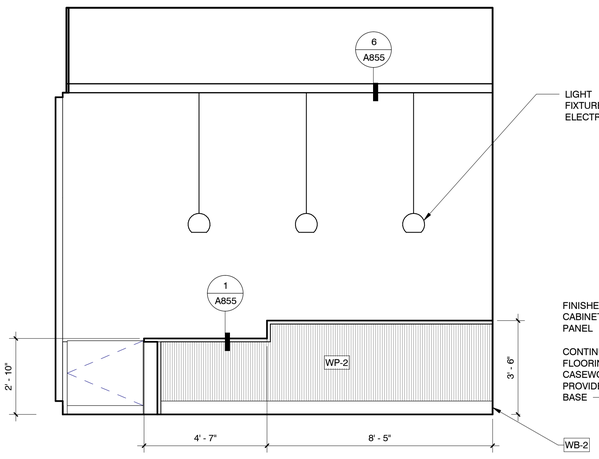
3/8" = 1'-0"

GENERAL NOTES

A. SEE **A850** FOR STANDARD ACCESSIBILITY REQUIREMENTS.
B. SEE ENLARGED PLANS FOR ADDITIONAL INFORMATION.
C. ALL DIMENSIONS ARE TO FACE OF STUD UNO OR CENTER OF COLUMN, EXTERIOR DIMENSIONS ARE TO FACE OF FOUNDATION/FACE OF FRAMING. DIMENSIONS INDICATED AS "CLR" ARE TO FACE OF FINISH UNO.
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LEGEND

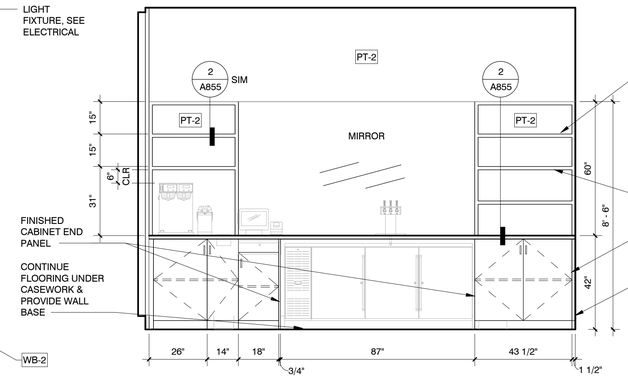
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- EXISTING WALLS WITH INSULATION, INSTALL GYPSUM BOARD
- EXISTING WALL FRAMING, INSTALL NEW INSULATION AND GYPSUM BOARD
- EXISTING WALL WITH GYPSUM BOARD AND INSULATION
- NEW WALLS



4A

INTERIOR ELEVATION - BAR COUNTER

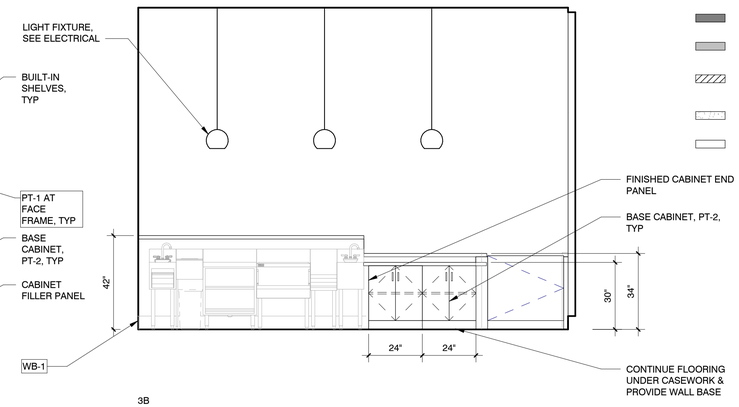
4 A610 3/8" = 1'-0"



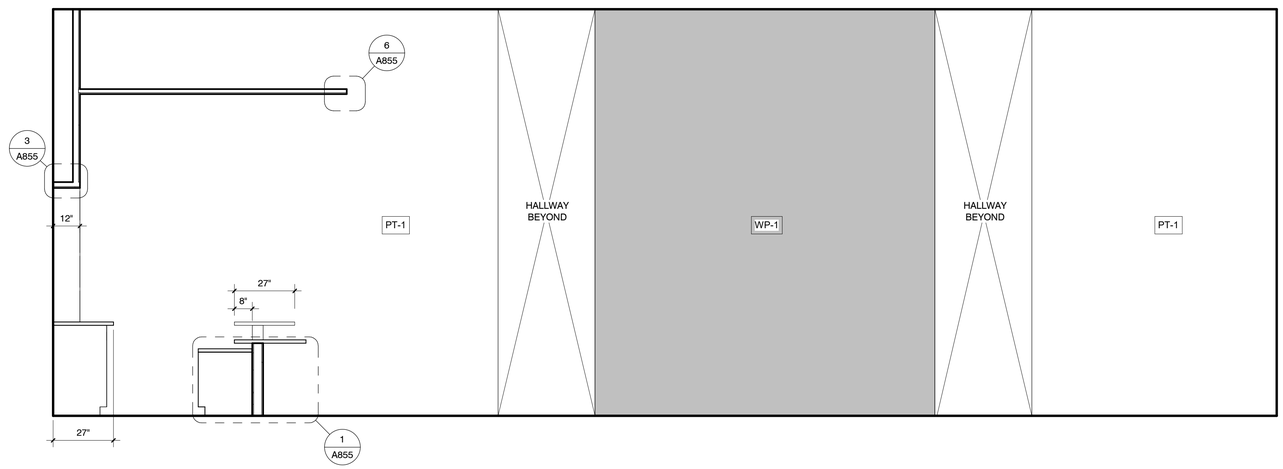
3A

INTERIOR ELEVATION - BACK BAR

3 A610 3/8" = 1'-0"



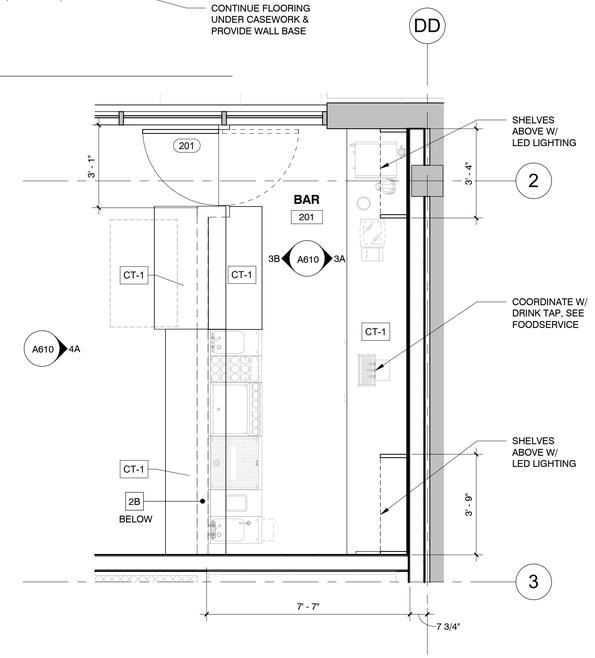
3B



1A

INTERIOR ELEVATION - RESTAURANT

2 A610 3/8" = 1'-0"



ENLARGED PLAN - BAR

1 A610 3/8" = 1'-0"

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ENLARGED PLANS & INT ELEVATIONS

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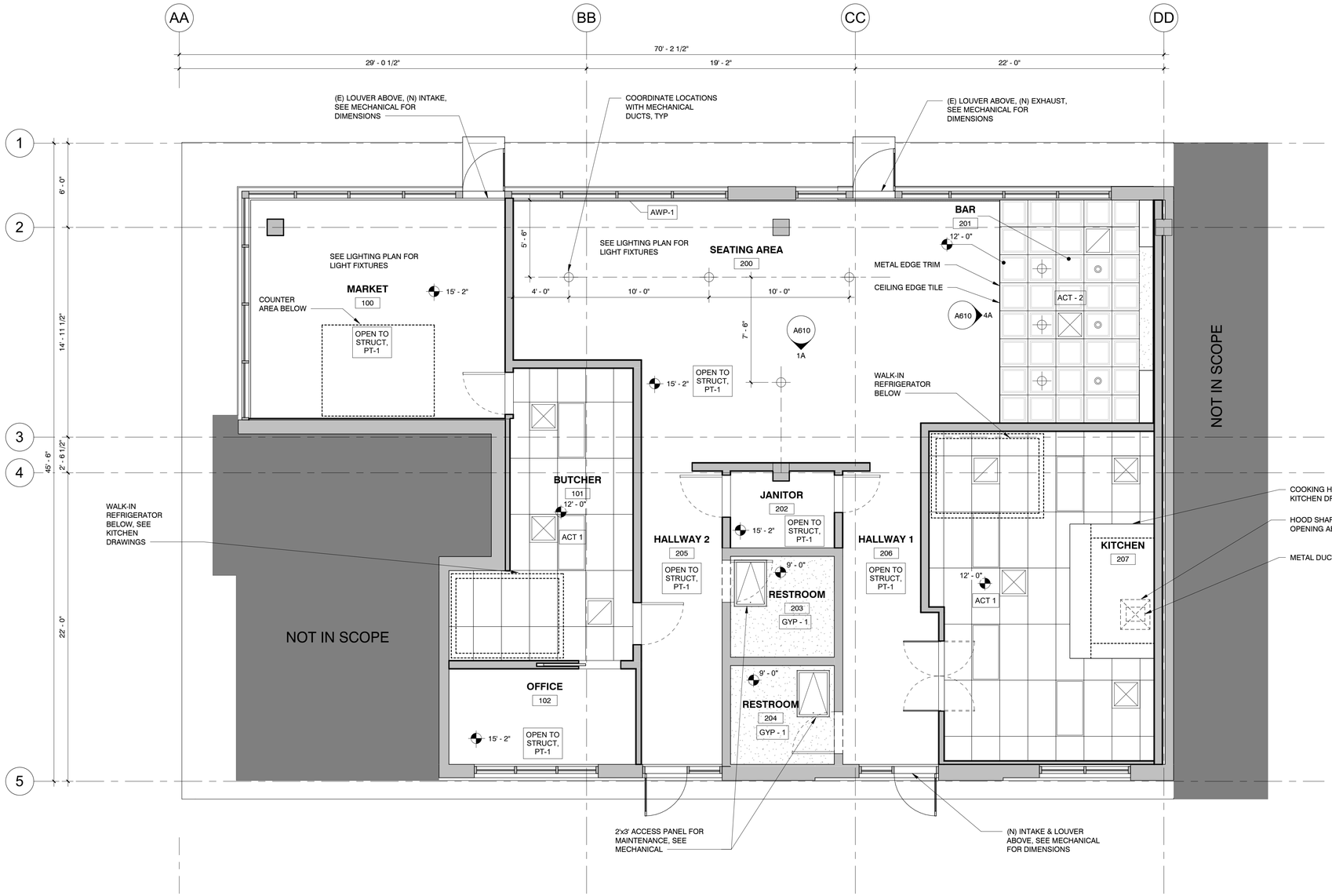
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A610

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CEILING PLAN NOTES

1. AT EXTERIOR LOUVERS, PROVIDE INSULATED METAL CAP BEHIND NON-DUCTED AREA.
2. PROVIDE WINDOW SHADES AT ALL EXTERIOR WINDOWS.

CEILING PLAN LEGEND

- SURFACE MOUNT LIGHT FIXTURE, SEE ELECTRICAL
- RECESSED LIGHT FIXTURE, SEE ELECTRICAL
- SUSPENDED LIGHT FIXTURE OR PENDANT, SEE ELECTRICAL
- WALL MOUNT LIGHT FIXTURE, SEE ELECTRICAL
- EM — EMERGENCY LIGHTING
- SUPPLY DIFFUSER, SEE MECHANICAL
- RETURN GRILLE, SEE MECHANICAL
- ACCESS HATCH

N

0 2' 4' 8'

1 / A701 **REFLECTED CEILING PLAN**
1/4" = 1'-0"

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LEVEL 01 REFLECTED CEILING PLANS

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ROOM FINISH SCHEDULE

ROOM NO	ROOM NAME	MATERIAL/FINISH				COMMENTS
		FLOOR	BASE	WALL	CEILING	
100	MARKET	CONC-1	6" RB	GYP BD/PT	OPEN TO STRUCT / PT-1	MECHANICAL EQUIPMENT PAINTED TO MATCH CEILING
101	BUTCHER	EP-1	6" EPOXY	GYP BD/PT/ PVC-1	ACT-1	PVC-1 UP TO 8 '-0" MIN
102	OFFICE	LVT-1	6" RB	GYP BD/PT	OPEN TO STRUCT / PT-1	MECHANICAL EQUIPMENT PAINTED TO MATCH CEILING
200	SEATING AREA	LVT-1	6" RB	GYP BD/PT	OPEN TO STRUCT / PT-1	MECHANICAL EQUIPMENT PAINTED TO MATCH CEILING
201	BAR	SV-2	6" RB	MIRROR / PT-2 / WP-3	ACT-2	WOOD CASEWORK, PAINTED
202	JANITOR	CONC-1	6" RB	GYP BD/PT/ PVC-1	OPEN TO STRUCT / PT-1	PVC-1 UP TO 8 '-0" MIN
203	RESTROOM	SV-1	6" RB	GYP BD / PT / TL-1	GYP/PT-1	ACCESS PANELS ON THE WALLS FROM HALLWAY
204	RESTROOM	SV-1	6" RB	GYP BD / PT / TL-1	GYP/PT-1	ACCESS PANELS ON THE WALLS FROM HALLWAY
205	HALLWAY 2	LVT-1	6" RB	GYP BD/PT	OPEN TO STRUCT / PT-1	MECHANICAL EQUIPMENT PAINTED TO MATCH CEILING
206	HALLWAY 1	LVT-1	6" RB	GYP BD/PT	OPEN TO STRUCT / PT-1	MECHANICAL EQUIPMENT PAINTED TO MATCH CEILING
207	KITCHEN	EP-1	6" EPOXY	GYP BD/PT/ PVC-1	ACT-1	PVC-1 UP TO 8 '-0" MIN, COVE BASE

MATERIAL LEGEND SCHEDULE

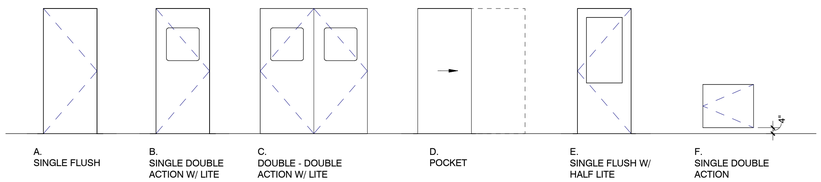
TAG	PRODUCT TYPE	MANUFACTURER	PRODUCT NAME / NUMBER	SIZE	COLOR / FINISH	COMMENTS	Finish Category
CEILING							
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	KITCHEN ZONE	24" x 48"	672 IN WHITE / SMOOTH TEXTURE	LAY-IN WITH PRELUDE 15/16" SUSPENSION SYSTEM	CEILING
ACT-2	FAUX TIN DROP-IN CEILING TILE	FROM PLAIN TO BEAUTIFUL IN HOURS	PRISM FACET / DCT86-wm-D	24" x 24"	WHITE MATTE	LAY-IN WITH PRELUDE 15/16" SUSPENSION SYSTEM	CEILING
FLOORING							
CONC-1	SEALED CONCRETE FLOORING	SEE SPECS					FLOORING
EP-1	EPOXY FLOORING	STONEHARD	STONCLAD UT		SAGE	HIGH LEVEL SLIP-RESISTANT	FLOORING
LVT-1	LUXURY VINYL TILE	MOHAWK GROUP	SOLID BONDS	6" x 48"	RADIATING SHADOW	INSTALL IN HERINGBONE PATTERN	FLOORING
SV-1	SHEET VINYL	TARKETT	STANDARD PLUS	2.0 MM	LIGHT GREY		FLOORING
SV-2	SHEET VINYL	TARKETT	GRANIT SAFE. T	2.0 MM	GRANIT LIGHT GREY	SLIP-RESISTANT	FLOORING
OTHER							
CB-1	BAR CABINETS	CUSTOM			DRESS BLUES SW 9176	WOOD CABINETS TO BE PAINTED. SEE SPECS	OTHER
CT-1	COUNTERTOP	MSI	QUARTZ COUNTERTOP	3CM	CALACTTA LAVASA		OTHER
PAINT							
PT-1	TYPICAL PAINT	SHERWIN-WILLIAMS	ALABASTER SW 7008		SEMI-GLOSS		PAINT
PT-2	ACCENT PAINT COLOR 1	SHERWIN-WILLIAMS	DRESS BLUES SW 9176		SEMI-GLOSS		PAINT
PT-3	ACCENT PAINT COLOR 2	SHERWIN-WILLIAMS	ENDLESS SEA SW9150		SEMI-GLOSS		PAINT
WALL COVERING							
AWP-1	ACOUSTIC WALL PANELS	KIREI	PICO PANEL		NAVY		WALL COVERING
PVC-1	PVC WALL PANEL	ALTRO	PURAGUARD	4' x 9'	SALT		WALL COVERING
TL-1	TILE - WALL	CROSSVILLE	COLOR BY NUMBERS / WT02.10408G	4" x 8"	TEA FOR TWO		WALL COVERING
WB-1	RUBBER WALL BASE						WALL COVERING
WB-2	WOOD WALL BASE			6"	PRIMED / PT-1		WALL COVERING
WP-1	WALLPAPER	COORDONNE	DIVING MOMENT		INDIGO		WALL COVERING
WP-2	REEDED WALL PANEL	WALSTON ARCHITECTURAL PRODUCTS	REEDED WALL PANELS - 3/4" REEDS	12" x 93"	PRIMED WHITE MDF / PT-1		WALL COVERING

DOOR SCHEDULE

ALL DOORS ARE NON-RATED

DOOR NO	LOCATION	WIDTH	HEIGHT	THICKNESS	TYPE	DOOR		FRAME		HARDWARE	SIGN	COMMENTS
						MATERIAL	FINISH	MATERIAL	FINISH			
100	MARKET	3' - 0"	7' - 0"	0' - 1 3/4"	B	SS	SS	HM	PT	00DA		
101	BUTCHER AREA	3' - 0"	7' - 0"	0' - 1 3/4"	E	SC	PT	HM	PT	03	NAME PRIVATE	
102	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	D	SC	PT	WD	PT	04		
201	BAR	2' - 10"	2' - 5"	0' - 1 3/4"	F	SC	PT	WD	PT	00DA		
202a	JANITOR	3' - 0"	7' - 0"	0' - 1 3/4"	A	SC	PT	HM	PT	02	NAME	
202b	JANITOR	2' - 8"	7' - 0"	0' - 1 3/4"	A	SC	PT	HM	PT	02	NAME	
203	RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	A	SC	PT	HM	PT	01	PIC	SELF-CLOSING
204	RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	A	SC	PT	HM	PT	01	PIC	SELF-CLOSING
207	KITCHEN	5' - 0"	7' - 0"	0' - 0 3/4"	C	SS	SS	HM	PT	00DAP		

1. ALL EXISTING EXTERIOR DOORS, INCLUDING HARDWARE, TO REMAIN



A. SINGLE FLUSH
B. SINGLE DOUBLE ACTION W/ LITE
C. DOUBLE - DOUBLE ACTION W/ LITE
D. POCKET
E. SINGLE FLUSH W/ HALF LITE
F. SINGLE DOUBLE ACTION

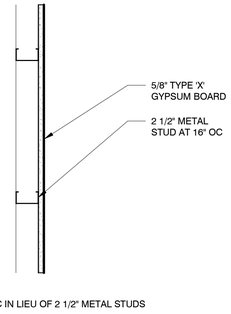
DOOR TYPES

DOOR SCHEDULE ABBREVIATIONS

HM	HOLLOW METAL
NAME	ROOM NAME & BRAILLE
PIC	PICTOGRAM
PT	PAINT
SC	SOLID-CORE WOOD
WD	WOOD
SS	STAINLESS STEEL

ASSEMBLY NOTES

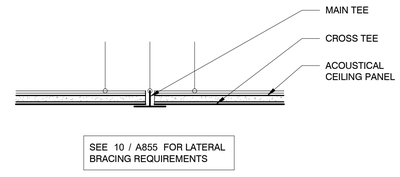
1. LOCATE THERMAL INSULATION ON THE COLD SIDE (IN WINTER) OF DOMESTIC WATER PIPES AS REQUIRED TO PROTECT PIPE FROM FREEZING.
2. PROVIDE ADDITIONAL FRAMING, BLOCKING, AND FINISHES AS REQUIRED FOR PLUMBING ACCESS PANELS.
3. PROVIDE ADDITIONAL BLOCKING AS REQUIRED TO SUPPORT SHELVING, TOWEL BARS, GRAB BARS, RAILINGS, AND ALL OTHER WALL-MOUNTED ACCESSORIES AND EQUIPMENT.
4. PROVIDE UL APPROVED THROUGH PENETRATION AND MEMBRANE PENETRATION FIRESTOP SYSTEMS AS REQUIRED BY CODE AT ALL ELECTRICAL, PLUMBING, AND MECHANICAL PENETRATIONS IN FIRE-RATED ASSEMBLIES, SEE A811
5. PROVIDE FIRE BLOCKING & DRAFTSTOPS IN CONCEALED SPACES BETWEEN RATED ASSEMBLIES, PROVIDE FIRE BLOCKS AND DRAFT STOPS PER 2014 OSSC SECTION 718.
6. PROVIDE FIRE BLOCKING IN CONCEALED SPACES OF WALLS, PARTITIONS, AND FURRED SPACES AT 10 FT OC MIN IN BOTH VERTICAL AND HORIZONTAL DIRECTIONS AND AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES.



3B 3 1/2" METAL STUDS AT 16" OC IN LIEU OF 2 1/2" METAL STUDS

3A NON-RATED INTERIOR FURRING WALL

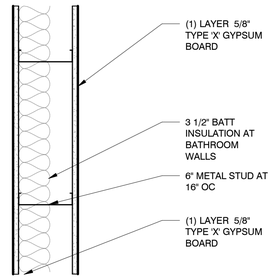
ASSEMBLY: N/A



SEE 10 / A855 FOR LATERAL BRACING REQUIREMENTS

2 NON-RATED DROPPED CEILING - ACT

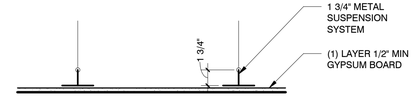
ASSEMBLY: N/A



2B 3 5/8" METAL STUDS AT 16" OC IN LIEU OF 6" METAL STUDS

2A NON-RATED INTERIOR WALL

ASSEMBLY: N/A



SEE 10 / A855 FOR SEISMIC BRACING REQUIREMENTS

1 NON-RATED DROPPED CEILING

ASSEMBLY: N/A

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SCHEDULES AND ASSEMBLIES

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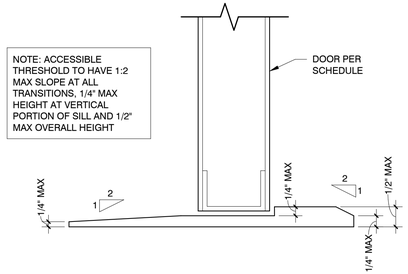
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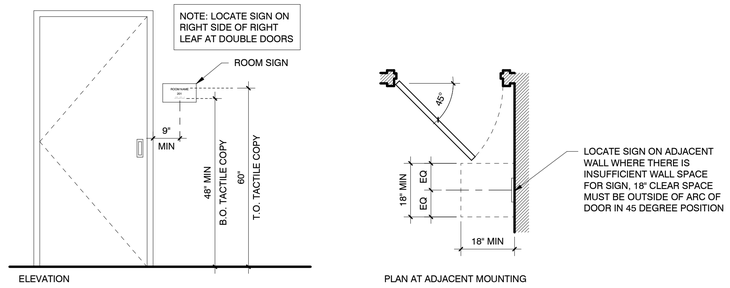
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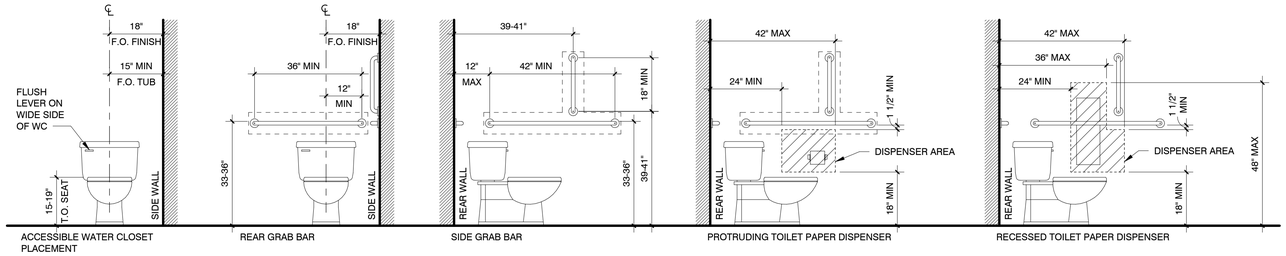


ACCESSIBLE DOOR THRESHOLD



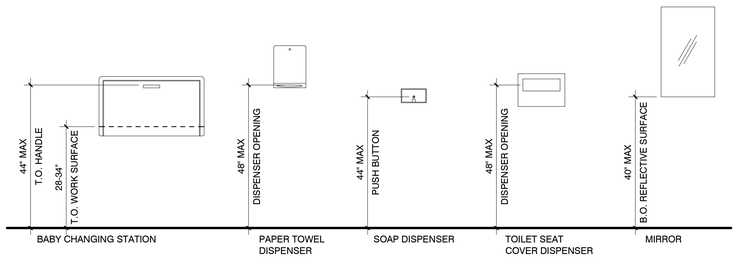
ROOM SIGNAGE

NOTE: SIGNS SHALL BE CONSTRUCTED OF DURABLE MATERIALS, PERMANENTLY INSTALLED AND READILY VISIBLE

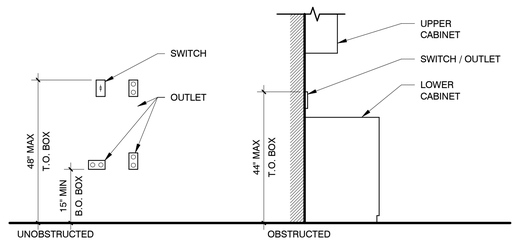


ACCESSIBLE WATER CLOSET

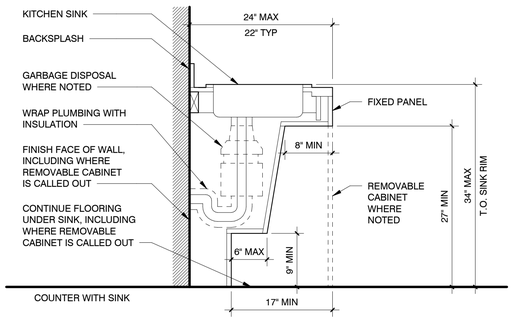
NOTE: GRAB BARS SHOWN FOR REFERENCE ONLY, INSTALL BLOCKING ONLY



ACCESSIBLE BATH ACCESSORIES

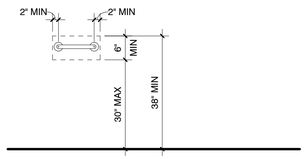


SWITCH AND OUTLET HEIGHTS



KNEE CLEARANCE

NOTE: KNEE CLEARANCE PER ANSI 117.1-2009



BLOCKING

TYPICAL BLOCKING HEIGHTS, SEE FIXTURES ELEVATION FOR EXCEPTIONS

1 A850 **ACCESSIBILITY DETAILS**

1/2" = 1'-0"

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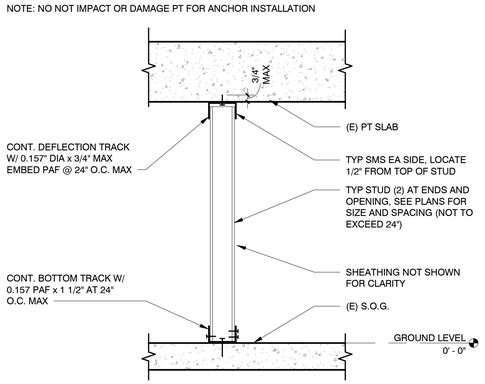
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A850

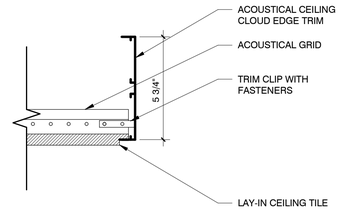
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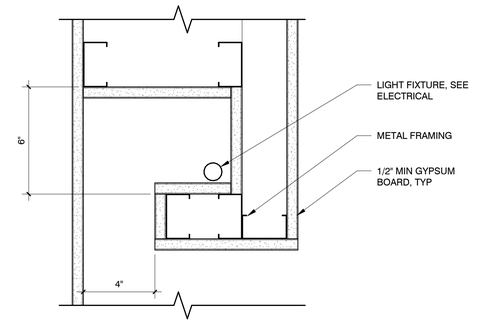
9 A855 TYPICAL NON-LOAD BEARING PARTITION

1 1/2" = 1'-0"



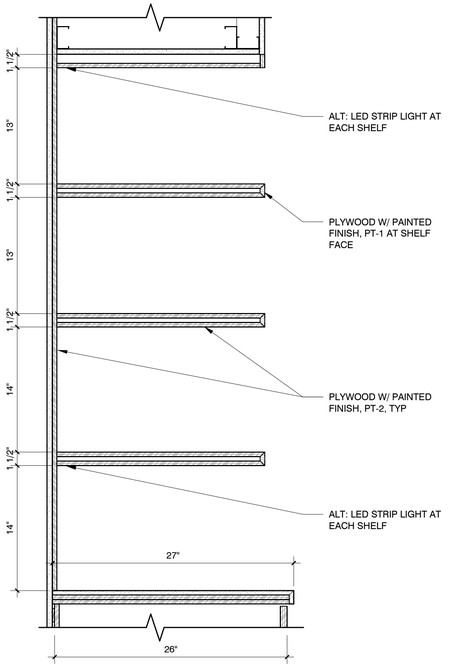
6 A855 DROPPED CEILING EDGE

3" = 1'-0"



3 A855 SOFFIT LIGHT COVE

3" = 1'-0"



4 A855 HEADER DETAIL (WHERE OCCURS)

1 1/2" = 1'-0"

8 A855 FIXTURE SUPPORT

3/4" = 1'-0"

5 A855 ATTACHED WALL MOLDING

3" = 1'-0"

10 A855 LATERAL FORCE BRACING - ASSEMBLY SECTION

1 1/2" = 1'-0"

7 A855 UNATTACHED WALL MOLDING

3" = 1'-0"

1 A855 BAR CASEWORK & COUNTER

1 1/2" = 1'-0"

2 A855 BAR SHELVING

1 1/2" = 1'-0"

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PLUMBING LEGEND

AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
B.G.	BELOW GRADE
BTU	BRITISH THERMAL UNIT
CAP.	CAPACITY
C.I.	CAST IRON
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
F.F.	FINISH FLOOR
FT	FOOT / FEET
GPM	GALLONS PER MINUTE
G.V.	GATE VALVE
HP	HORSEPOWER
HR.	INVERT ELEVATION
LAV	LAVATORY
MAX.	MAXIMUM
MBH	THOUSANDS OF BTUs PER HOUR
MIN	MINIMUM
OS&Y	OUTSIDE STEM & YOKE
PRV	PRESSURE REDUCING VALVE
PSI, PSIG	POUNDS PER SQUARE INCH
P/T	PRESSURE / TEMPERATURE
REQ'D	REQUIRED
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
TYP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET

(CW)	COLD WATER
(HW)	HOT WATER
(TW)	TEMPERED HOT WATER (105')
(W)	BELOW GRADE WASTE
(W)	ABOVE GRADE WASTE
(V)	VENT
OD	(RD) RAIN DRAIN
FDC	(FDC) FIRE DEPARTMENT CONNECTION
A	(A) COMPRESSED AIR
P	(P) PROPANE
F	(F) FIRE WATER

X / XX	EQUIPMENT MARK NUMBER
XXX	FIXTURE MARK
(E)	EXISTING
#	NOTE
	CONNECT TO EXISTING
	CAP
	TEE
	ELBOW
	CLEANOUT
	PRESSURE/TEMP RELIEF VALVE
	BUTTERFLY VALVE
	GAS PRESSURE REGULATING VALVE
	SOLENOID VALVE
OR	TOP CONNECTION
	BOTTOM CONNECTION
	PIPE TURNED UP, PIPE TURNED DOWN
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	CHECK VALVE
	UNION
	DOUBLE CHECK ASSEMBLY
	POINT OF USE MIXING VALVE

PLUMBING SHEET INDEX

P001	PLUMBING LEGEND AND SCHEDULES
P200	PLUMBING UNDER SLAB PLAN
P201	PLUMBING LEVEL 01 PLAN
P301	PLUMBING ROOF PLAN
P501	ISOMETRIC GAS DIAGRAM
P601	PLUMBING DETAILS
P602	PLUMBING CUT SHEETS

PLUMBING GENERAL NOTES:

A. THE DRAWINGS ARE DIAGRAMMATIC. PROVIDE ALL MATERIAL (NEW AND UNDAMAGED) AND LABOR FOR A COMPLETE AND OPERABLE SYSTEM. VERIFY ALL BUILDING MEASUREMENTS DIMENSIONS AND EQUIPMENT LOCATIONS BEFORE PROCEEDING WITH ANY OF THE WORK.

B. REFER TO THE PLUMBING SPECIFICATIONS FOR MATERIALS, EQUIPMENT, AND ADDITIONAL CONSTRUCTION INSTRUCTIONS NOT COVERED BY THESE PLANS.

C. VERIFY THE EXISTING EQUIPMENT, PIPES, VALVES LOCATIONS AND SIZES THAT ARE SHOWN ON THESE PLANS AND REPORT ALL DISCREPANCIES BACK TO ENGINEER FOR EVALUATION PRIOR TO PROCEEDING WITH WORK.

D. ALL INSTALLATIONS SHALL COMPLY WITH APPLICABLE FEDERAL AND STATE CODES INCLUDING 2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC) INCLUDING APPENDIX N FOR OREGON FIRE CODE REGULATIONS, 2021 OREGON PLUMBING SPECIALTY CODE (OPSC), 2022 OREGON MECHANICAL SPECIALTY CODE (OMSC), 2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)–BASED ON ASHRAE 90.1–2019, AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). WHERE TWO CODES DIFFER THE MORE STRICT OF THE TWO SHALL BE FOLLOWED.

E. ALL PIPES, EXITING, ENTERING OR PASSING THROUGH ANY RATED FIRE WALL OR OCCUPANCY SEPARATION SHALL HAVE FIRE BLOCKING.

F. ALL NON–PRESSURIZED DRAIN LINES (SANITARY WASTE) ARE TO HAVE A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED.

G. ALL PIPING INVERTS OR ELEVATIONS ARE MEASURED TO BOTTOM OF PIPE (BOP), UNLESS OTHERWISE IDENTIFIED.

H. ALL POTABLE WATER SYSTEM PIPING AND EQUIPMENT ARE TO BE FLUSHED AND DISINFECTED PRIOR TO COMMISSIONING AND USE, AS PER CLEANING AND COMMISSIONING REQUIREMENTS OUTLINED IN OREGON PLUMBING SPECIALTY CODE & SPECIFICATIONS.

I. VENT PER CODE AND AS SHOWN ON DRAWINGS.

J. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AT AN APPROVED LOCATION. TRENCHES FOR PIPING SHALL BE SHORED AND WIDE ENOUGH FOR PROPER INSTALLATION.

K. PROVIDE CLEANOUTS WHERE INDICATED AND PER CODE.

L. PRIME FLOOR DRAINS/SINKS PER CODE.

M. PROVIDE DIELECTRIC FITTINGS AT DISSIMILAR METALS PIPE CONNECTIONS.

N. VERIFY ALL ELECTRICAL REQUIREMENTS BEFORE ORDERING EQUIPMENT.

O. INSTALL ALL EQUIPMENT PER MANUFACTURERS' INSTRUCTIONS.

P. CONTRACTOR TO PROVIDE ACCESS DOORS WHERE REQUIRED BY CODE.

Q. CONTRACTOR TO FLASH AND COUNTER–FLASH NEW VENT THRU ROOF WATER TIGHT.

R. DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS–PRODUCING FIXTURE.
EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES

S. HEAT TRACE (FREEZE PROTECTION) ALL PIPING SUBJECTED TO FREEZING CONDITIONS. ALL HEAT TRACED PIPE TO BE INSULATED.

T. HEAT TRACE WASTE TRAPS, INSULATE WASTE PIPING EXPOSED TO FREEZING CONDITIONS

U. ROUTE ALL HVAC UNIT CONDENSATE DRAINS TO AN APPROVED LOCATION (OPTIONS LISTED BELOW)
- •• ROUTE TO CLOTHES WASHER BOX VIA TOP DISCHARGE – IPS WATER TITE MODEL W8900 OR EQUAL.
- •• ROUTE ALL CONDENSATES DOWN IN WALLS IN COMMON DRAIN SYSTEM AND ROUTE TO HUB DRAINS – CONTRACTOR TO SIZE DRAIN SYSTEM BASED ON NUMBER OF CONNECTED UNITS.
- •• PROVIDE CONDENSATE PUMPS ON ALL UNITS THAT ARE NOT GRAVITY DRAINED.

V. ROUTE VENTS FROM FLOOR DRAINS/SINKS BELOW SLAB AND UP ON/IN A WALL TO VENT STACKS ABOVE. (ROUTE INDIVIDUAL VENTS UNTIL ABOVE FLOOD LINE OF FIXTURE).

PLUMBING CALCULATIONS - Restaurant

FIXTURE TYPE	NUMBER OF FIXTURES	DOMESTIC WATER SERVICE: WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	SANITARY WASTE SERVICE: DRAINAGE FIXTURE UNITS	TOTAL DFU
HAND SINK	2	1	2	1.5	1.5	1	2
BAR SINK	1	1	1	0.75	0.75	1	1
DUMP SINK	1	2	2	1.5	1.5	2	2
KITCHEN SINK (DISHWASHER)	1	3	3	2.25	2.25	2	2
LAVATORY (SINGLE)	1	1	1	0.75	0.75	1	1
MOP BASIN	1	3	3	2.25	2.25	3	3
SINK GENERAL (1-1/2" TRAP)	1	1.5	1.5	1.125	1.125	3	3
SINK GENERAL (2" TRAP)	2	3	6	4.5	4.5	4	8
WATER CLOSET (1.6 GPF FLUSHOMETER VALVE-PRIVATE)	1	5	5	5	0	3	3
TOTAL	9		22.5	18.125	13.125		23
	GPM		37	34	10	**WASTE SIZE**	4"GW
	SIZE		2"	1-1/2"	3/4"		PROVIDE 3" VENT

PLUMBING CALCULATIONS - Market

FIXTURE TYPE	NUMBER OF FIXTURES	DOMESTIC WATER SERVICE: WATER FIXTURE UNITS	TOTAL WSFU	TOTAL CW FIXTURE UNITS	TOTAL HW FIXTURE UNITS	SANITARY WASTE SERVICE: DRAINAGE FIXTURE UNITS	TOTAL DFU
HAND SINK (GENERAL USE)	1	2	2	1.5	1.5	2	2
LAVATORY (SINGLE)	1	1	1	0.75	0.75	1	1
SINK GENERAL (2" TRAP)	1	3	3	2.25	2.25	4	4
WATER CLOSET (1.6 GPF FLUSHOMETER VALVE-PRIVATE)	1	5	5	5	0	3	3
TOTAL	4		11	9.5	4.5		10
	GPM		28	27	5	**WASTE SIZE**	4"GW
			1-1/2"	1-1/2"	3/4"		3" V

PLUMBING CONNECTION SCHEDULE

MARK	FIXTURE	KITCHEN EQUIP # (KES #)	W	V	CW	HW105	HW140	G	GAS INPUT	KES *	UDS *	REMARKS
WC–2	WATER CLOSET (ADA)		4"	2"	1"							FLUSH VALVE, FLOOR MOUNT, ADA
LV–2	LAVATORY (ADA)		1–1/2"	1–1/2"	1/2"	1/2"						WALL HUNG, ADA
HS–1	HAND WASH SINK	54	2"	1–1/2"	1/2"	1/2"				*		WALL HUNG (1) (2)
HS–2	HAND WASH SINK	38	2"	1–1/2"	1/2"	1/2"				*		FREE STANDING (1) (2)
DS–1	DUMP SINK	41	1–1/2"	1–1/2"	1/2"	1/2"				*		FREE STANDING (1) (2)
KS–1	PREP SINK	67	IW	IW	1/2"		1/2"			*		1 COMP (1) (2)
KS–2	DISH WASHING SINK	81	IW	IW	1/2"		1/2"			*		3 COMP (2)
KS–3	BUTCHER AREA SINK	18	IW	IW	1/2"		1/2"			*		3 COMP (2)
IM–1	ICE MAKER	58	IW	IW	1/2"					*		PROVIDE VALVE BOX VB–1/PROVIDE WATER FILTER WF–1 (2) (3)
IB–1	ICE BIN	43	IW	IW						*		PROVIDE VALVE BOX VB–1/PROVIDE WATER FILTER WF–1 (2) (3)
HP–1	HOT PLATE, GAS	71						3/4"	60MBH	*		(2)
GG–1	GRIDDLE, GAS	72						3/4"	56.6MBH	*		(2)
WW–1	WARE WASHER	84	IW	IW			1/2"			*		(2)
CM–1	COFFEE MAKER	46	IW	IW	1/2"					*		PROVIDE VALVE BOX VB–1/PROVIDE WATER FILTER WF–1 (2)
TD–1	TRENCH DRAIN	27	3"GW	V.L.								J.R. SMITH9675 (LINEAR)
MS–1	MOP SINK		3"GW	2"	1/2"		1/2"					
FD–1	FLOOR DRAIN		3"GW	V.L.								J.R. SMITH 2120 (ROUND)
FS–1	FLOOR SINK		3"GW	V.L.								J.R. SMITH 3002 STAINLESS STEEL
VB–1	VALVE BOX				1/2"							
WF–1	WATER FILTER				1/2"							

NOTES:

PROVIDE CLEAN–OUTS BELOW ALL SINKS AND LAVS.
PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS

GW – GREASE WASTE

IDW – INDIRECT WASTE

V.L. – VENTED LINE

1) – PROVIDE WITH ASSE 1070 APPROVED POINT OF USE MIXING VALVE (MV–1) OR LAV FAUCET WITH APPROVED TEMPERATURE LIMIT STOP.

2) – EQUIPMENT SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER (KES) OR OWNER. ALL ROUGH IN WORK AND FINAL CONNECTIONS BY DIVISION 15. DIVISION 15 CONTRACTOR TO PROVIDE ALL TRAPS, STOPS AND OTHER REQUIRED ACCESSORIES.

3) – PROVIDE RP DEVICE ON SUPPLY. ROUTE DRAIN TO FLOOR SINK

4) – SEE PRODUCT SPECIFICATION ON SHEET P602

DOMESTIC WATER PIPE SIZNG:

PIPE SIZES LISTED ON THE PLANS ARE FOR COPPER PIPE. CONTRACTOR USE OF PEX PIPING WILL REQUIRE UPSIZING OF PIPES TO NOT EXCEED THE LISTED MANUFACTURE VELOCITIES & TEMPERATURES:

COPPER: CW = 6 FPS & HW = 5 FPS

PEX: CW=8 FPS, HW=5 FPS & HWR=2 FPS

WATER HEATER

MARK NUMBER	WH 1
TYPE	ELECTRIC
CAPACITY (GAL)	120
KW	40.5
ELEC REQ	240
RECOVERY CAP. (GPH)	166
DESIGN WEIGHT (LBS)	1,195
BASIS OF DESIGN – AO SMITH	DRE–120

WATER HEATER

MARK NUMBER	WH 2
TYPE	ELECTRIC
CAPACITY (GAL)	ON DEMAND
KW	3.5
ELEC REQ	120
RECOVERY CAP. (GPH)	N/A
DESIGN WEIGHT (LBS)	4.0
BASIS OF DESIGN – RHEEM	RTEX–04

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REGISTERED PROFESSIONAL ENGINEER 54,607 OREGON JULY 11, 2006 MARK R. DENYER
EXPIRES: 31DEC27

PROJECT NUMBER: 2429a

NICK FISH TI - MERKATO

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REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

PLUMBING LEGEND AND SCHEDULES

DRAWN BY:
CHECKED BY:
DATE CREATED: 04/27/24

SHEET:

P001

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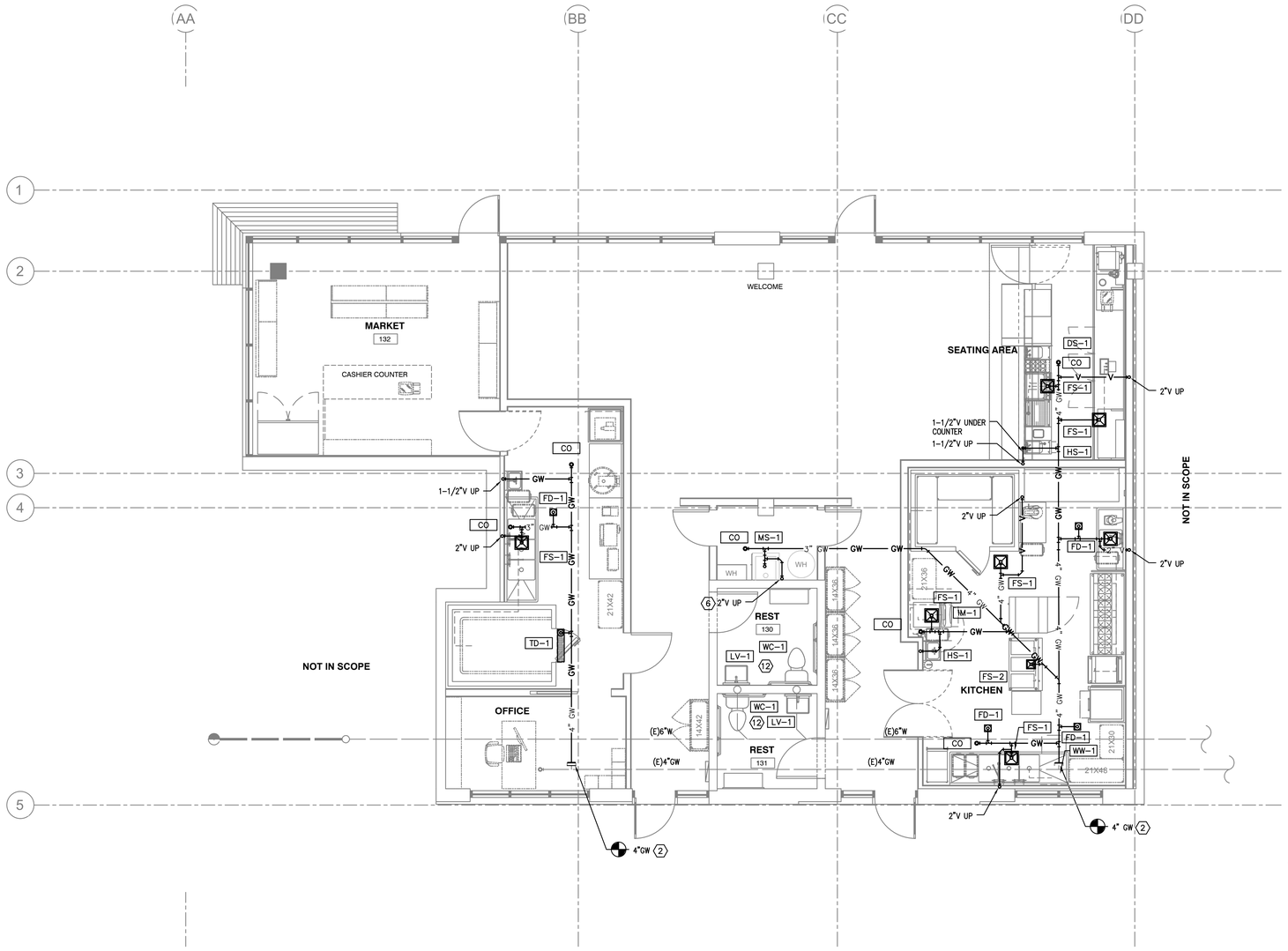
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1 P200 UNDERSLAB PLUMBING PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. WORK SHALL COMPLY WITH CURRENT OREGON SPECIALTY CODE.
2. COORDINATE INSTALLATION WITH OTHER TRADES
3. ALL PIPING IN EXTERIOR WALLS TO BE INSTALLED ON WARM SIDE OF INSULATION.
4. WATER PIPING TO FIXTURES IS 1/2" UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS PRIOR TO STARTING WORK.

KEYED NOTES:

1. — CONNECT TO EXISTING METERED COLD WATER SUPPLY CAPPED FOR FUTURE USE. PROVIDE SHUT OFF VALVE AND ACCESS PANEL (AS NEEDED).
2. — CONNECT TO EXISTING GREASE WASTE PIPING CAPPED FOR FUTURE USE
3. — PROVIDE FILTERED WATER AS REQUIRED. SEE KITCHEN CONSULTANT PLANS FOR ROUGH-IN HEIGHT AND WATER FILTER LOCATION.
4. — ROUTE PIPING BELOW INSIDE WALL OR THRU CABINETRY AS REQUIRED.
5. — ROUTE WASTE INDIRECT TO FLOOR SINK.
6. — ROUTE PIPING EXPOSED ON WALL AS NEEDED.
7. — CONNECT TO EXISTING METERED GAS.
8. — PROVIDE TYPICAL DIRT LEG, GAS COCK, UNION AND FLEX CONNECTION TO APPLIANCE. PROVIDE VENTED OR VENTLESS REGULATOR AS REQUIRED BY CODE. SEE GAS REGULATOR DETAIL 5/P601.
9. — SEE AUTO GAS SHUT OFF DETAIL 6/P601
10. — SEE KITCHEN GAS CONNECTION DETAIL 7/P601.
11. — REMOVE (E) 2"V PIPING. REPLACE WITH 3"V UP THRU ROOF.
12. — CONNECT TO EXISTING WASTE PIPING PROVIDED FOR FUTURE USE.

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REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

PLUMBING UNDER SLAB PLAN

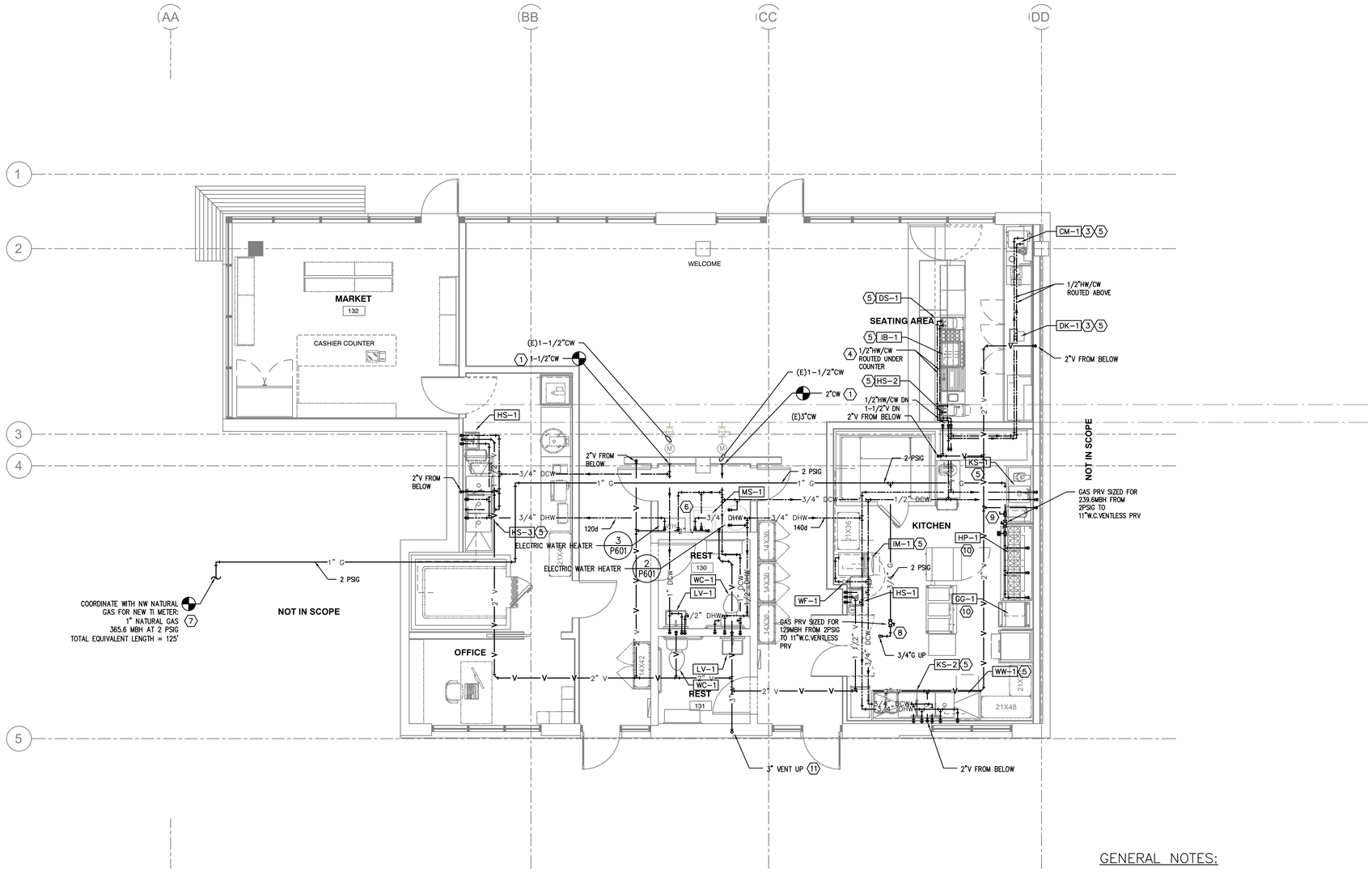
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P200

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1 P201 PLUMBING PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. WORK SHALL COMPLY WITH CURRENT OREGON SPECIALTY CODE.
2. COORDINATE INSTALLATION WITH OTHER TRADES
3. ALL PIPING IN EXTERIOR WALLS TO BE INSTALLED ON WARM SIDE OF INSULATION.
4. WATER PIPING TO FIXTURES IS 1/2" UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS PRIOR TO STARTING WORK.

KEYED NOTES:

1. — CONNECT TO EXISTING METERED COLD WATER SUPPLY CAPPED FOR FUTURE USE. PROVIDE SHUT OFF VALVE AND ACCESS PANEL (AS NEEDED).
2. — CONNECT TO EXISTING GREASE WASTE PIPING CAPPED FOR FUTURE USE
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6. — ROUTE PIPING EXPOSED ON WALL AS NEEDED.
7. — CONNECT TO EXISTING METERED GAS.
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9. — SEE AUTO GAS SHUT OFF DETAIL 6/P601
10. — SEE KITCHEN GAS CONNECTION DETAIL 7/P601.
11. — REMOVE (E) 2"V PIPING. REPLACE WITH 3"V UP THRU ROOF.
12. — CONNECT TO EXISTING WASTE PIPING PROVIDED FOR FUTURE USE.

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#	DATE	DESCRIPTION

SHEET TITLE:

PLUMBING LEVEL 01 PLAN

DRAWN BY:
CHECKED BY:
DATE CREATED: 04/27/24

SHEET:

P201

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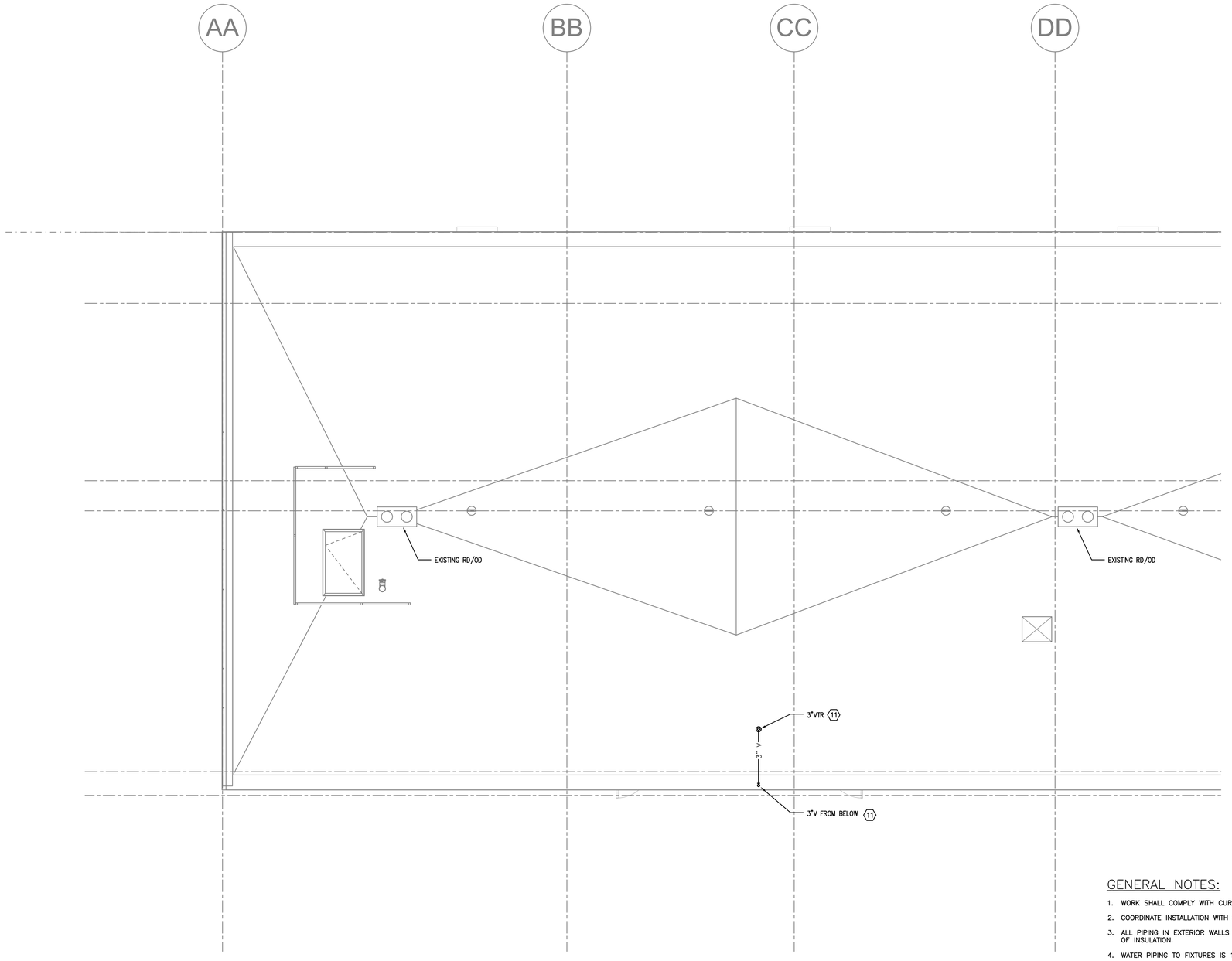
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1 P301 PLUMBING ROOF PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. WORK SHALL COMPLY WITH CURRENT OREGON SPECIALTY CODE.
2. COORDINATE INSTALLATION WITH OTHER TRADES
3. ALL PIPING IN EXTERIOR WALLS TO BE INSTALLED ON WARM SIDE OF INSULATION.
4. WATER PIPING TO FIXTURES IS 1/2" UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS PRIOR TO STARTING WORK.

KEYED NOTES:

(1) — CONNECT TO EXISTING METERED COLD WATER SUPPLY CAPPED FOR FUTURE USE. PROVIDE SHUT OFF VALVE AND ACCESS PANEL (AS NEEDED).

(2) — CONNECT TO EXISTING GREASE WASTE PIPING CAPPED FOR FUTURE USE

(3) — PROVIDE FILTERED WATER AS REQUIRED. SEE KITCHEN CONSULTANT PLANS FOR ROUGH-IN HEIGHT AND WATER FILTER LOCATION.

(4) — ROUTE PIPING BELOW INSIDE WALL OR THRU CABINETRY AS REQUIRED.

(5) — ROUTE WASTE INDIRECT TO FLOOR SINK.

(6) — ROUTE PIPING EXPOSED ON WALL AS NEEDED.

(7) — CONNECT TO EXISTING METERED GAS.

(8) — PROVIDE TYPICAL DIRT LEG, GAS COCK, UNION AND FLEX CONNECTION TO APPLIANCE. PROVIDE VENTED OR VENTLESS REGULATOR AS REQUIRED BY CODE. SEE GAS REGULATOR DETAIL 5/P601.

(9) — SEE AUTO GAS SHUT OFF DETAIL 6/P601

(10) — SEE KITCHEN GAS CONNECTION DETAIL 7/P601.

(11) — REMOVE (E) 2"V PIPING. REPLACE WITH 3"V UP THRU ROOF.

(12) — CONNECT TO EXISTING WASTE PIPING PROVIDED FOR FUTURE USE.

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PLUMBING ROOF PLAN

DRAWN BY:
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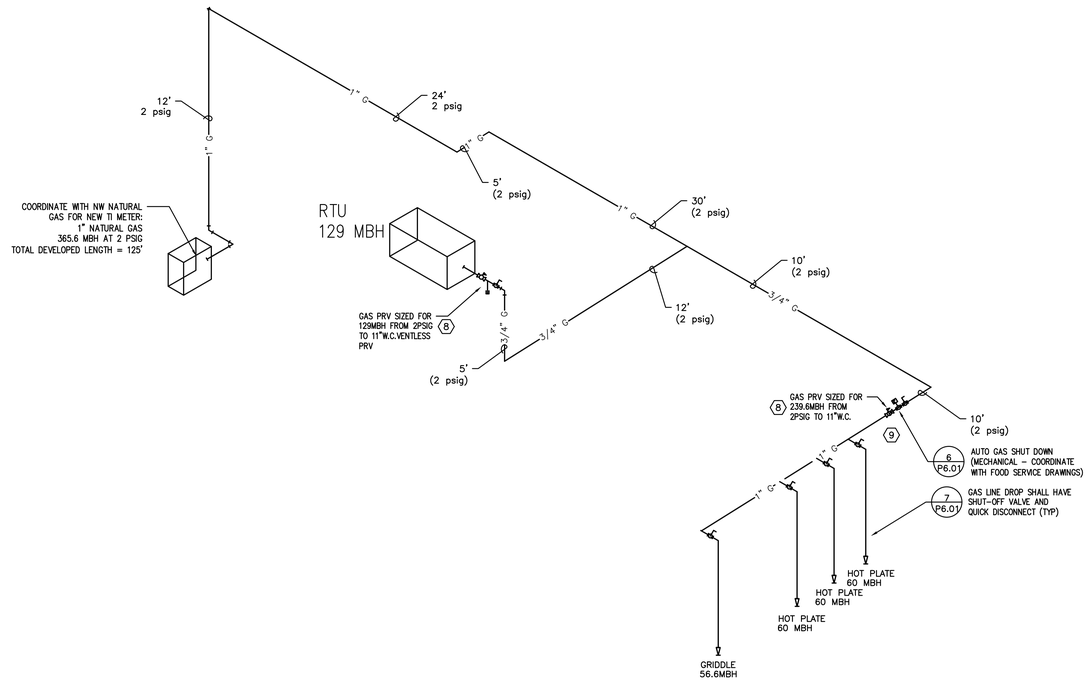
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1 P501 ISOMETRIC GAS DIAGRAM
SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. WORK SHALL COMPLY WITH CURRENT OREGON SPECIALTY CODE.
2. COORDINATE INSTALLATION WITH OTHER TRADES
3. ALL PIPING IN EXTERIOR WALLS TO BE INSTALLED ON WARM SIDE OF INSULATION.
4. WATER PIPING TO FIXTURES IS 1/2" UNLESS NOTED OTHERWISE.
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KEYED NOTES:

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(9) — SEE AUTO GAS SHUT OFF DETAIL 6/P601
(10) — SEE KITCHEN GAS CONNECTION DETAIL 7/P601.
(11) — REMOVE (E) 2"V PIPING. REPLACE WITH 3"V UP THRU ROOF.
(12) — CONNECT TO EXISTING WASTE PIPING PROVIDED FOR FUTURE USE.

MFIA INC. Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
WWW.MFIA-ENG.COM
CONTACT: MARK DENYER

N

0 2" 4" 8"

All drawings and written materials appearing herein constitute the original and unpublished work of the designer and the same may not be duplicated, used, or disclosed without the written consent of the designer.

Salazar Architect, Inc.

SALAZAR ARCHITECT
2222 NE OREGON ST.
SUITE 101
PORTLAND, OR 97232

PHONE: 503.702.2575
WWW.SALAZARCH.COM

4-27-26

REGISTERED PROFESSIONAL ENGINEER
54,607 PE
OREGON
JULY 11, 2005
MARK R. DENYER
EXPIRES: 31DEC27

PROJECT NUMBER: 2429a

NICK FISH TI - MERKATO

10560 NE HALSEY ST, PORTLAND, OR 97220

CLIENT:

PROSPER PORTLAND

220 NW 2ND AVE, SUITE 200, PORTLAND, OR 97209

PHASE:

PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

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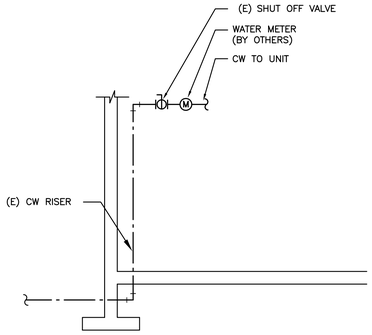
ISOMETRIC GAS DIAGRAM

DRAWN BY:
CHECKED BY:
DATE CREATED: 04/27/24

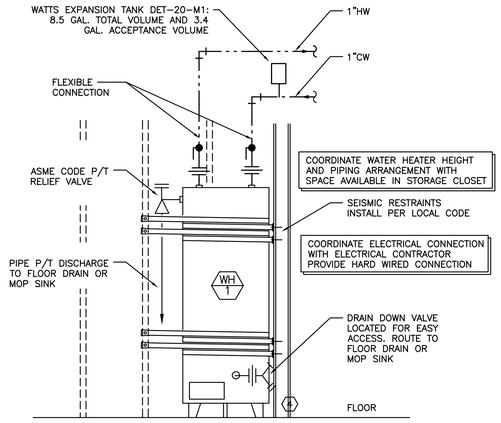
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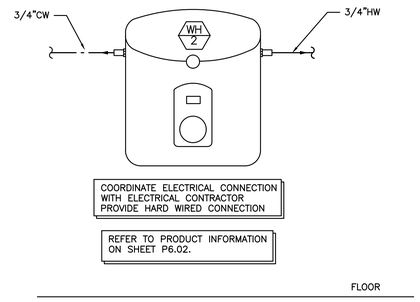
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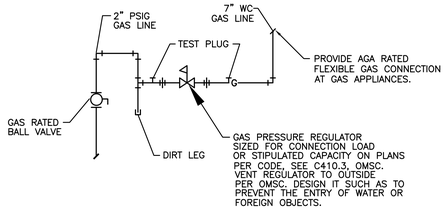
1 P601 DOMESTIC RISER
SCALE: DETAIL



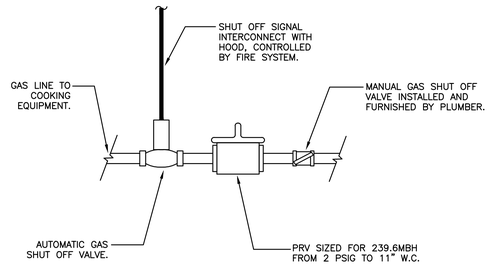
2 P601 WATER HEATER
SCALE: DETAIL



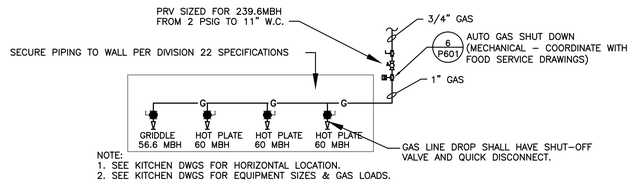
3 P601 ON -DEMAND WATER HEATER
SCALE: DETAIL



5 P601 GAS REG DETAIL
SCALE: DETAIL



6 P601 AUTO GAS SHUT OFF
SCALE: DETAIL



7 P601 KITCHEN GAS PIPING DIAGRAMS
SCALE: DETAIL

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PHASE:

PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

PLUMBING DETAILS

DRAWN BY:
CHECKED BY:
DATE CREATED: 04/27/24

SHEET:

P601

MFIA INC. Consulting Engineers
2007 S.E. Ash St.
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0 2" 4" 8"

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Salazar Architect, Inc.

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WC-1

Floor Mounted Flush Valve Bowl

PROFLO

Product Features
- 1.0-1.6 gpf
- Siphon jet flush
- Vitreous china
- 14-3/8" Elongated flush valve bowl
- Rough-in: 10" or 12"
- Spud Size: 1-1/2" top
- Trapway: 2" Fully glazed
- Water Spud: 11-1/2" x 13"
- Flush valve not included

Codes and Certifications

- IAPMO/cUPC
- EPA WaterSense Certified
- ASME A112.19.2 / CSA B45.1
- MAP Rated 1000g



Available Colors: White (WH)

Bowl	
PF172188	Elongated Flush Valve Bowl - 14-3/8"

This product comes complete with installation, operating, care and maintenance instructions. All PROFLO fixtures carry a lifetime limited warranty on the vitreous china and a 5-year limited warranty on the fittings. Visit **ferguson.com/PROFLO-vitreous-china-warranty** for detailed warranty information.

FERGUSON.COM/PROFLO

SLOAN



Royal® Manual Flushometer

ROYAL 111-1.28-CP-CN

Product description

1.28 gpf, Polished Chrome Finish, Fixture Connection Top Spud, Single Flush, Carbon Neutral, Royal® Exposed Manual Water Closet Flushometer.

Compliances & Certifications

(ADA Compliant, BAA Compliant, BREEAM Vector Credit, Carbon Neutral, Carbon Offset, cUPC Green Certified, EPD, Green Globes Vector, HPD, IAPMO, LBC Credit, LEED Vector, ModelsUSA, Sotheflex LEED Credits, EPA Water Sense Listed, WELL Building Standard)

Code 3910168T

Finish

Polished Chrome (CP)

Downloads
- Royal Exposed Installation Instructions.pdf
- Control Stop Repair and Maintenance Guide.pdf
- Flush Connections Flanges Repair and Maintenance Guide.pdf
- Additional Downloads

Videos
- PVD Special Finishes

Revised 10/30/2025 | Page 1 of 3
Sloan 10500 Seymour Ave, Franklin Park 800.982.5839 sloan.com

1 / P602 — WC–1 SCALE: CUTSHEET

LV-1

KOHLER.

Soho®
Wall-Mount Bathroom Sink
K-2084

Features
- Made from premium materials that withstand high-volume usage
- 20" (508 mm) x 18" (457 mm)
- Faucet sold separately

Material
- Vitreous china

Installation
- Wall-mount
- Drilled for concealed arm carrier installation

Recommended Products/Accessories
K-8998 P-Trap
K-23725 Drain treatment
K-23725 Cast iron cleaner



ADA | CSA B651 | OBC

Codes/Standards
ASME A112.19.2/CSA B45.1
ADA
ICC/ANSI A117.1
CSA B651
OBC

KOHLER® Vitreous China Bathroom Sink Lifetime Limited Warranty
See website for detailed warranty information.

Available Colors/Finishes
Color tiles intended for reference only.

Color	Code	Description
	0	White
	96	Biscuit
	7	Black Black™

1-800-4KOHLER (1-800-456-4537)
Kohler Co. reserves the right to make revisions without notice to product specifications.
For the most current Specification Sheet, go to www.kohler.com USA or www.kohler.ca Canada
1-3-2026 00:28 - USCA

THE BOLD LOOK OF KOHLER.

LV-1 FAUCET

SLOAN OPTIMA SYSTEMS

EAF-275

OPTIMA Solis™

Solar Powered, Electronic Hand Washing Faucet



EAF-275-ISM

▶ **Description**
Solar Powered, Sensor Activated Electronic Hand Washing Faucet for pre-tempered or hot and cold water operation.

▶ **Models**
☐ EAF-275 — Single Supply Faucet (For pre-mixed water only)
☐ EAF-275-ISM — With Integral Spout Temperature Mixer (For Hot and Cold water supply connection)

▶ **Flow Rate**
☐ 0.5 gpm/1.9 Lpm Aerator Spray Head

▶ **Specifications**
Solar Powered, Sensor Activated, Electronic, Chrome Plated Constructed Metal, Hand Washing Faucet with the following features:
- Modular, One-piece Construction with all Concealed Components above deck
- Double Infrared Sensors with Automatic Setting Feature
- Precision Hands-Washing Sensor Technology
- Solar Powered
- Magnetic Solenoid Valve
- Water Supply Connection with Flexible High-pressure Hose and Strainer
- Appropriate Mounting Hardware Included
- Includes 6 VDC Lithium Battery Back-up Power Source

▶ **Variations**
☐ ISM — Integral Spout Mixer

▶ **Accessories**
☐ ETF-910-A, Trim Plate for 4" (102 mm) Centerset Sink
☐ ETF-910-A, Trim Plate for 8" (203 mm) Centerset Sink
Trim Plates must be specified and ordered separately.
☐ Basic-13 — 2.2 gpm/8.3 Lpm Aerator Spray Head
☐ EAF-13 — 2.2 gpm/8.3 Lpm Laminar Flow Spray Head

▶ **Warranty**
3 year (limited)

▶ **ADA Compliant**

The new Optima solar powered faucet — Bringing intelligence to water

The first solar powered electronic faucets integrated power plant transforms light into electrical energy. Solis™ faucets operate in any light, any time: in bright or even artificial light. The unique Solar Energy Module™ utilizes any light source efficiently.

Sloan's new Optima EAF-275 Series electronic hand washing faucets operate by means of a dual infrared sensor and microprocessor based logic. The modular design incorporates all of the operating components of the faucet, with the exception of the mixing valve and the solar energy module above the sink within a die-cast metal spout.

ISM models feature an integral temperature control lever which allows the user to adjust the water temperature. This adjustment can also be converted to a fixed setting. EAF faucets ordered without the ISM variation must be connected to a single, pre-tempered water supply.

This space for Architect/Engineer approval

Job Name _____ Date _____
Model Specified _____ Quantity _____
Vocations Specified _____
Customer/Wholesaler _____
Contractor _____
Architect _____

The information contained in this document is subject to change without notice.

Optima Solis EAF-275 S.S. — Rev. 0b (03/20)

2 / P602 — LV–2 CUTSHEET

MV-1

ES-P-LFG480_LFE480

Product Specification

Job Name _____ Contractor _____
Job Location _____ Approval _____
Engineer _____ Contractor's P.O. No. _____
Approval _____ Representative _____

LEAD FREE

Series LFG480 and LFE480
Lavatory Thermostatic Mixing Valve

Features
- Adjustable temperature selection with locknut to prevent tampering
- Advanced thermal actuator improves performance
- Temperature controls to ASSE 1070, down to 0.25 gpm for LFG480 & 0.5 gpm for LFE480
- Lead Free* brass body for durability & to comply with Lead Free* installation requirements
- Corrosion resistant thermal components for extended life
- Integral checks with screens prevents cross flow and filter debris flow
- Factory set to 100°F (41°C)



LFE480-00Q LFE480-10Q

Approval

ASSE 1070 NSF

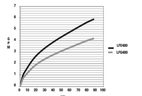
Specifications

Connections	See ordering code
Maximum Operating Pressure	125 psi (861 kPa)
Maximum Hot Water Temperature	180°F (82°C)
Minimum Hot Water Supply Temperature	5°F (2°C) above set point+
Hot Water Inlet Temperature Range	120 – 180°F (49 – 82°C)
Cold Water Inlet Temperature Range	40 – 80°F (4 – 27°C)
Temperature Adjustment Range:	80 – 120°F (27 – 49°C)
Minimum Flow	
LFG480	0.25 gpm (1.0 lpm)
LFE480	0.5 gpm (1.9 lpm)
Listing	ASSE 1070, IAPMO cUPC, NSF 61 & 372

This product meets the reduced Q-test atlantic criteria of 0.5 gph for lead per Section 8.5.1.1 of NSF/ANSI/CAN 61.

* The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
+ With Equal Pressure

Flow Capacity



NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Powers product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Powers Technical Service. Powers reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Powers products previously or subsequently sold.

POWERS™ A WATTS Brand

3 / P602 — MV–1 CUTSHEET

WH-1

A.O. Smith
Phone No. 1-877-552-0010
www.hotWater.com

Pro-Size Selection Report

January 9, 2026

Project Information

Project #: 10802
Project Name: Ethiopian Restaurant
Location: Portland, Ore
Engineer:
Contractor:

Prepared for:
Prepared by:

Selected Product

DRE-120-40.5
Gold Series

# Heaters:	1	Heater Recovery:	186 USGPH @ 80 °F Rise
Model Number:	DRE-120-40.5	1st Hour Delivery:	282 USGPH
Heater Storage (wg):	120 USG	3 Hour Average:	218 USGPH
Input (wg):	40.5 kW	Est. Storage Recovery:	39 min
New External Tanks:	0	% Of Demand:	118%
Tank Capacity (wg):	0 USG		
Total Usable Storage:	98 USG		

Model Number	90 Cube Trailer Load Factor	Gallon Capacity	Recovery Capacity GPH 100 Degree Rise	Input KW	Height	Diameter	Approx. Shipping Weight (lbs.)
DRE-120-40.5	218	120	186	40.5	62.25		295

- Pilote Convertible
- CSA Certified and ASME Rated T&P Relief Valve
- Meets or exceeds the minimum efficiency standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1
- Surface Mounted Thermostats
- Incoloy Elements
- Individual Element Fusing



Application Loads

Summary

Peak Demand: 239 USGPH — Temperature Rise: 90 °F

Application Settings

Type:	Food Service / Restaurant		
Building Use:	Not Specified	Cold Water Temp:	50 °F
Peak Demand Period:	1.00 Hours	Stored Water Temp:	140 °F
Equipment:	Water Heaters Only (no external storage)	Approx. Storage:	25%
Fuel Type:	Electric	# Storage Tanks:	Not Specified
Location:	Indoor	Existing Storage:	None
LoHOn:	Not Required		
UtrasLowNOx:	Not Required		

The A. O. Smith Pro-Size sizing program is a tool that can be used to estimate water heater requirements for many common applications. Pro-Size is intended to assist in selecting water heaters or boilers that best meet the specific job requirements. It is the sole responsibility of the system designer to select the correct products needed for the specific application. A. O. Smith reserves the right to make changes to Pro-Size without notice.

Page 1 of 2

January 9, 2026

ASME:	Not Required
# Heaters:	Not Specified
Altitude:	Less than 2000 ft

Load Data

Meals Served:	0 Per Day
Vegetable Sinks:	1
Single Pot Sink:	0
Double Pot Sink:	0
Triple Pot Sink:	1
Pre-scraper (open type):	0
Pre-flush (hand operated):	0
Pre-flush (closed type):	0
Recirculating Pre-flush:	0
Bar Sink:	2
Lavatories:	2
Mop/Slop Sink:	2
Dishwasher - Model 1:	1 @ 24 USGPH (140 °F)
Dishwasher - Model 2:	0 @ 0 USGPH (140 °F)
Pot Washer - Model 1:	0 @ 0 USGPH (180 °F)
Pot Washer - Model 2:	0 @ 0 USGPH (180 °F)
Additional Load:	0 USGPH
Design Oversize:	0%

* Range is Located 3" (51) from Top of Drain (7.75) When Specified

AA	1	5-29-23	Removed Bucket Models Only	HS	HS	KV	HEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
A	2	8-23-23	Removed Punctions	HS	CL	CL			
B	3	2-14-25	Updated Tailpiece	HS	CL	CL			3001-Series
REV.	DATE		DESCRIPTION	AP	DWG BY				

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

4 / P602 — WH–1 CUTSHEET

WH-2

TANKLESS ELECTRIC WATER HEATER SPECIFICATIONS

Model Number	GPM Rise	Input (kW)	Input Amps	Width (inches)	Depth (inches)	Height (inches)	Weight (Pounds)
RHEEM® CLASSIC® POINT-OF-USE TANKLESS							
RTEX-06	5.5	36	120	13-45/64	10-1/4	9-5/8	3-1/4	4
RTEX-08	5.5	48	240	13-45/64	10-1/4	9-5/8	3-1/4	4
RTEX-09	5.5	54	240	13-45/64	10-1/4	9-5/8	3-1/4	4.75
RTEX-10	5.5	60	240	13-45/64	10-1/4	9-5/8	3-1/4	5
RTEX-13	5.5	54	240	13-45/64	9-5/8	13-1/4	3-1/4	7
RHEEM® CLASSIC® WHOLE HOME TANKLESS							
RTEX-18	5.5	72	240	13-45/64	14-1/4	19-1/4	3-1/4	11.25
RTEX-24	5.5	120	240	13-45/64	17-1/4	19-1/4	3-1/4	13.75
RTEX-27	5.5	135	240	13-45/64	17-1/4	19-1/4	3-1/4	15.75
RTEX-36	5.5	120	240	13-45/64	21-1/4	19-1/4	3-1/4	17.4

"According to the Department of Energy's "Advantages of Tankless or Demand-Type Water Heaters", a tankless water heater can provide energy savings of up to 50% or water heating costs when installed at each fixture outlet. When used as a single tankless model to supply hot water to a residence with 2 or more bathrooms, it can provide savings up to 34% energy savings."Rate the Heaters Status on Rheem.com for qualified information.

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Call 1-800-574-8906, or visit **Rheem.com/TESelect** or see your local distributor.

PRINTED IN U.S.A. 12/16 MP YORK(PA) 140 457 Rev. J

SELLING GUIDE | Tankless Electric Water Heaters

Rheem CONTINUOUS H²OT WATER



RUNNER RESIDENTIAL & COMMERCIAL PRODUCTS

RHEEM® TANKLESS ELECTRIC POINT-OF-USE AND WHOLE-HOME WATER HEATERS

HELP YOUR CUSTOMERS SAVE UP TO 50% ON WATER HEATING COSTS TODAY!
Learn more at **Rheem.com/TESelect** or ask your local distributor.

TAKE ADVANTAGE OF GREAT SAVINGS:
- Up to 50% on water heating costs with point-of-use applications or 34% when used as a whole-home solution*
- Energy cost savings and a 5-year heating chamber warranty with a 1-year parts limited warranty†
- Flexible financing options with *KwikComfort*® Financing

APPLICATIONS

RESIDENTIAL
- Bathroom sinks, showers and tubs
- Kitchen sinks and dishwashers
- Detached buildings, cabins, workshops and barns

RECREATIONAL
- Boat kitchens and bathrooms
- RV kitchens and bathrooms

COMMERCIAL
- Office building lunchrooms and restrooms
- Food service sinks, dishwashers and restrooms
- Hospital / laboratory bathrooms and sinks
- Hotel kitchens and bathrooms

APPLICATION WATER USAGE
- Water-saver showerhead 2.0 GPM
- Standard showerhead 2.5 GPM
- Standard hand sink 0.5 GPM
- Kitchen sink 1.5–2 GPM
- Bath tub 4–8 GPM
- Dishwasher 1 to 2 GPM
- Washing machine 1 to 1.5 GPM

*Average Options Per Minute (GPM) based on 2015 Plumbing Standards

SELECTING THE RIGHT TANKLESS ELECTRIC WATER HEATER IS AS EASY AS 1, 2, 3.

Help customers enjoy instantaneous, continuous hot water while saving on energy costs. Go to **Rheem.com/TESelect** for a solutions guide to recommending the right model for their needs.

1. Consider customer location
2. Assess their hot water needs
3. Review inlet temperature and recommend the best model for your customer



ONLY THREE STEPS TO FIND THE RIGHT SIZE AND MODEL NEEDED

TANKLESS ELECTRIC SELLING POINTS

PERFORMANCE

ON-DEMAND, CONTINUOUS HOT WATER—Instantly provides ample hot water as there's no wait, saving time and water

ENERGY & COST SAVINGS—Heats water only when it is needed for savings of up to 50%, when used in a point-of-use application or 34% when used as a whole-home solution*

EASY TO ADJUST—Electronic temperature control adjustable in 1° increments from 80°-140°F with easy-to-read display

PEACE-OF-MIND

GREAT INVESTMENT & VALUE—Energy cost savings and a 5-year heating chamber warranty with a 1-year parts limited warranty†

EASY TO MAINTAIN—Durable, easy-to-replace heating elements

INSTALLABILITY

SPACE SAVINGS—Small, compact design fits perfectly in tight places like under cabinets in bathrooms

EASY INSTALLATION—Compatible with ½ and ¾-inch water connections for flex hose installations; no venting or T&P valve required

ADD-ON SOLUTION—Perfect as an add-on to recommend for large homes, homes with an undersized main system or homes undergoing renovations where point of use heaters could improve comfort and convenience while helping you improve your sale

Rheem.com/TESelect

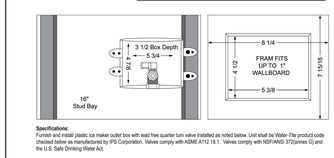
5 / P602 — WH–2 CUTSHEET

VB-1

SPECIFICATION SUBMITTAL SHEET

WATER-TITE

Plastic Square Ice Maker Outlet Box with Lead Free Quarter Turn Hammer Valve



Specifications:
Furnish and install plastic ice maker outlet box with lead free quarter turn valve installed as noted below. Unit shall be Water-Tite product code checked below as manufactured by IPS Corporation. Valves comply with ASME A112.18.1. Valves comply with NSF/ANSI 372(annex G) and the U.S. Safe Drinking Water Act.

Item #	Product Description	Model #	Quantity
87967	1/4 Turn Lead Free Valve, 1/2" Sweat Conx.	AB9700	10
87971	1/4 Turn Lead Free Valve, 1/2" CPVC Conx.	AB9701	10
87969	1/4 Turn Lead Free Valve, 1/2" PEX Conx.	AB9702	10
87004	1/4 Turn Lead Free Valve, 3/8" PEX Conx.	AB9738	10
87973	1/4 Turn Lead Free Valve, 1/2" Winbolt Conx.	AB9711	10
88017	Domestic Adapter Lead Free Valve, 1/2" Sweat Conx.	AB9000LA 10	
82821	1/4 Turn Lead Free Valve, 1/2" REHAU EVERLOK+™ Conx.	AB9705	10
88008	Ice Maker Box Only - No Valve	9000 LV	10
	CONTRACTOR PACKS		
87968	1/4 Turn Lead Free Valve, 1/2" Sweat Conx.	AB9700CP	20
87972	1/4 Turn Lead Free Valve, 1/2" CPVC Conx.	AB9701CP	20
87970	1/4 Turn Lead Free Valve, 1/2" PEX Conx.	AB9702CP	20
87005	1/4 Turn Lead Free Valve, 3/8" PEX Conx.	AB9738CP	20
87974	1/4 Turn Lead Free valve, 1/2" Winbolt Conx.	AB9711CP	20
87953	Domestic Adapter Lead Free Valve, 1/2" Sweat Conx.	AB9722CP	
82822	1/4 Turn Lead Free Valve, 1/2" REHAU EVERLOK+™ Conx.	AB9705CP	
	DISPLAY PACKS - BAGGED		
82100	Ice Maker Box Only - No Valve	R9000LVB 10	
88152	1/4 Turn Lead Free Valve, 1/2" Sweat Conx	RAB9000B	10

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IPSC_WT_Rectc-9608-SH-Fastener_STKD

6 / P602 — VB–1 CUTSHEET

FS-1

SMITH® JAY R. SMITH MFG. CO.®
4365 WILEY POST WAY, SUITE 200, SALT LAKE CITY, UTAH 84116
PHONE: (801) 328-1466 FAX: (801) 328-1496
MANUFACTURERS OF SANITARY, SECURITY, AND STORM DRAINAGE PRODUCTS

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COORDINATE LOCATION AND OPTIONS WITH KES

SANI-CEPTOR® STAINLESS STEEL FLOOR, AREA & INDIRECT WASTE DRAINS WITH 12" (304) STAINLESS STEEL SQUARE TOPS

USDA ACCEPTED



FEATURES, OPTIONS AND ORDERING INFORMATION

REGULARLY FURNISHED: 14 Gauge Type 304 SS Receptor Body with Seepage Control Holes, Cast Type 316 SS Ribbed Non-Tilt Loose Set ADA Grate with 1/2"(13) Square Holes. Perforated SS Dome Bottom Strainer or Sediment Bucket as indicated by Figure Number. Body Rim and Grate are polished to No. 4 finish.

VARIATIONS:
- ☐ Inside Thread Outlet (Specify Schedule -005, -S10, or -S40)
- ☐ "Y" Male Thread Connection
- ☐ Less Seepage Control Holes -LSH
- ☐ Trap Primer Connection -P050 12"(13) & -P075 3/4"(19)
- ☐ With Anchor Flange -F
- ☐ With Flange and Flashing Clamp -F-C
- ☐ USDA Compliant

OPTIONAL MATERIALS:
- ☐ Body: Cast Iron, Type 316 Stainless Steel
- ☐ Funnel: Type 304 Stainless Steel
- ☐ Funnel: Type 316 Stainless Steel

Bucket Models Only:
- ☐ With SS Dome Bottom Strainer -DSS
- ☐ With Sediment Bucket Bucket -SBP
- ☐ With Mesh Lined Bucket -BS

NOTE:
When determining location of this drain, consideration must be given to traffic loading factors. Installation of drains where the drain may be subjected to any traffic greater than pedestrian foot traffic, the location, load and description of load shall be submitted to Jay R. Smith's Sales Engineering Department for evaluation and selection of proper grate.

OPTIONAL TOP GRATES AND COVERS

SUFFIX	DESCRIPTION
-10	Less SS Grate
-12	With SS Slot Grate
-13	With SS 3/4" (19) SQ Center Hole Grate
-14	With SS 2 1/2" (64) SQ Center Hole Grate
-15	With SS Recessed Grate with Handle
-16	With NB Rim and Angle ADA Grate
-17	With SS Rim and Angle ADA Grate Furnish
-23	With SS Grate with 4" (160) DIA NB Funnel
-25	With SS Grate with 9 1/4(210) x 3 1/4(83) x 4 1/2"(115) High Oval NB Funnel
-26	With SS Grate with 6(153) x 2 1/2(64) x 1"(25) High Oval Funnel
-41	With SS Solid Cover
-42	With SS 1/2 Solid Cover
-43	With SS 3/4 Solid Cover
-44	With SS 2 1/2" (64) SQ Center Hole Solid Cover

SUFFIX	DESCRIPTION
-51	With SS Heel-Proof Ribbed Non-Tilt Loose Set Grate with 1" (6) SQ Holes
-53	With SS Heel-Proof Ribbed Non-Tilt Loose Set Grate with 1/4" (6) SQ Holes.
-64	With SS Heavy Duty Ribbed Non-Tilt Loose Set ADA Grate with 1/2" (13) SQ Holes.
-66	With SS Extra Heavy Duty Ribbed Non-Tilt Loose Set ADA Grate with 1/2" (13) SQ Holes.
-68	With SS Extra Heavy Duty Ribbed Non-Tilt Loose Set S4 Grate with 1/2" (13) SQ Holes.

NOTE: Dimensions shown in parentheses are in millimeters.

* Range is Located 3" (51) from Top of Drain (7.75) When Specified

AA	1	5-29-23	Removed Bucket Models Only	HS	HS	KV	HEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
A	2	8-23-23	Removed Punctions	HS	CL	CL			
B	3	2-14-25	Updated Tailpiece	HS	CL	CL			3001-Series
REV.	DATE		DESCRIPTION	AP	DWG BY				

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

7 / P602 — FS–1 CUTSHEET

TD-1

SMITH® JAY R. SMITH MFG. CO.®
4365 WILEY POST WAY, SUITE 200, SALT LAKE CITY, UTAH 84116
PHONE: (801) 328-1466 FAX: (801) 328-1496
MANUFACTURERS OF SANITARY, SECURITY, AND STORM DRAINAGE PRODUCTS

LOCATION
COORDINATE SIZE AND LOCATION WITH KES

SS TRENCH DRAIN

LIGHT DUTY STAINLESS STEEL TRENCH DRAIN



REGULARLY FURNISHED:
All Fabricated 14 Gauge Type 304 Stainless Steel Trench Drain Body with 4" (101) NO-HUB Outlet, Sediment Bucket, Anchor Tabs and Stainless Steel Light Duty Bar Grates with 1" (25.4) Reveal. Bars at 1/2" (13) Bar Spacing.

OPTIONAL MATERIAL:
☐ Type 316 Stainless Steel -316

VARIATIONS:
☐ ADA Slot Spacing -25
☐ Anti-Splash Guard -ASG
Flashing Flange & Flashing Clamp -F-C
Anchor Flange -F

AVAILABLE SIZES:

	W	H
9675-1224	12" (305)	24" (610)	9 1/8" (230)
9675-1236	12" (305)	36" (914)	9 3/16" (233)
9675-1248	12" (305)	48" (1219)	9 1/4" (235)
9675-1260	12" (305)	60" (1524)	9 3/8" (238)
9675-1824	18" (305)	24" (610)	9 3/16" (233)
9675-1836	18" (305)	36" (1524)	9 3/16" (233)
9675-1848	18" (305)	48" (1524)	9 1/4" (235)
9675-1860	18" (305)	60" (1524)	9 3/8" (238)

SMITH ACO Trench Drain Series

9675

C	1	5-29-23	Removed Punctions	HS	HS	KV	HEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
B	2	8-23-23	Added Anchor Flange	HS	CL	CL			
A	3	2-14-25	Updated Tailpiece	HS	CL	CL			9675
REV.	DATE		DESCRIPTION	AP	DWG BY				

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

8 / P602 — TD–1 CUTSHEET

FD-1

SMITH® JAY R. SMITH MFG. CO.®
4365 WILEY POST WAY, SUITE 200, SALT LAKE CITY, UTAH 84116
PHONE: (801) 328-1466 FAX: (801) 328-1496
MANUFACTURERS OF SANITARY, SECURITY, AND STORM DRAINAGE PRODUCTS

LOCATION
COORDINATE LOCATION(S) WITH KES

FLOOR DRAINS

8 1/2" (215) ROUND TOPS



Fig. 2120C ..... CAULK OUTLET
Fig. 2120T ..... NO-HUB OUTLET
Fig. 2120T ..... THREADED OUTLET

Fig. 2125C ..... CAULK OUTLET
Fig. 2125T ..... THREADED OUTLET

A SIZE	02 (50)	03 (75)	04 (100)
B	3 3/4 (95) for Caulk, NO-HUB, and Speed-Set®, 2 (51) for Threaded		

A SIZE	02(50)	03(75)	04(100)
B	4 1/4(110)	3 3/4(95)	3 1/4(83)

REGULARLY FURNISHED:
Duco Cast Iron Body and Flashing Collar with Medium Duty Cast Iron ADA Tractor Grate.

****For Heavy Duty: Specify Ductile Iron Grate-K**

VARIATIONS:
- ☐ Closure Plug -XP (Fig. 2110 only)
- Dome Grate -D
- ☐ Nickel Bronze Grate -FBS (Fig. 2125 only)
- ☐ 5" Speed-Set® Service Weight Body -5 (Fig. 2125 only)
- ☐ 3-3/4" Speed-Set® Extra Heavy (Fig. 2125 only)
- ☐ NO-HUB Adaptor (Specify Fig. 2640T) ☐ 2" (51) ☐ 3" (76) ☐ 4" (100) sizes only
- Sediment Bucket -B
- ☐ Trap Primer -P
- ☐ Trap Primer Connection -P050 1/2" (13) & -P075 3/4" (19)
- ☐ Vandal Proof (-U)
- ☐ Heel Proof Grate -Q45
- Quad Cleo Trap Seal (Specify Fig. 2900) (Fig. 2120 Only)

OPTIONAL MATERIALS:
- ☐ Ductile Iron Grate -K
- ☐ Galvanized Cast Iron -G
- ☐ Nickel Bronze Top -NB
- ☐ Polished Bronze Top -PB

NOTE: Dimensions shown in parentheses are in millimeters. ▲ Not available on Fig. 2120T threaded outlet drain.

E	1	7-15-24	Rev. Variations and Opt. Mat	HS	HS	KV	HEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
D	2	5-29-23	Removed Punctions	HS	CL	CL			
C	3	8-23-23	Added Anchor Flange	HS	CL	CL			2120, 2125
B	4	1-27-25	Rem. Note & Added to Reg. Fur.	HS	CL	CL			
REV.	DATE		DESCRIPTION	AP	DWG BY				

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

9 / P602 — FD–1 CUTSHEET

SALAZAR ARCHITECT
2222 NE OREGON ST.
SUITE 101
PORTLAND, OR 97232
PHONE: 503.702.2575
WWW.SALAZARCH.COM

4-27-26

REGISTERED PROFESSIONAL ENGINEER — 54,607 PE — OREGON — JULY 11, 2005 — MARK D. DENTLER — EXPIRES: 31DEC27

PROJECT NUMBER: 2429a

NICK FISH TI - MERKATO

10560 NE HALSEY ST, PORTLAND, OR 97220

CLIENT:

PROSPER PORTLAND

220 NW 2ND AVE, SUITE 200, PORTLAND, OR 97209

PHASE:

PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

PLUMBING CUT SHEETS

DRAWN BY:
CHECKED BY:
DATE CREATED: 04/27/24

SHEET:

P602

MFIA Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
INC. WWW.MFIA-ENG.COM
CONTACT: MARK DENYER

N

0 2" 4" 8"

All drawings and written materials appearing herein constitute the original and unpublished work of the designer and the same may not be duplicated, used, or disclosed without the written consent of the designer.

Salazar Architect, Inc.

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MECHANICAL LEGEND

- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST AIR DIFFUSER
- DIRECTIONAL AIR FLOW
- MANUAL VOLUME DAMPER
- SUPPLY/OUTSIDE AIR DUCT UP & DOWN
- RETURN AIR DUCT UP & DOWN
- EXHAUST AIR DUCT UP & DOWN
- (D) DEMOLISH
- (E) EXISTING
- CONNECT TO EXISTING
- THERMOSTAT
- TEMPERATURE SENSOR
- NOTE
- EQUIPMENT DESIGNATOR
- GATE VALVE/SHUT-OFF VALVE SEE SPECS
- CHECK VALVE
- BALANCING VALVE
- FLOW CONTROL/LIMITING VALVE
- THERMOMETER
- DIRECTION OF FLOW
- PUMP
- STRAINER W/DRAIN VALVE
- PRESSURE GUAGE
- PETE'S PLUG
- DOUBLE CHECK ASSEMBLY
- PRESSURE REDUCING VALVE
- UNION
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- TRIPLE DUTY VALVE
- CAP
- MOTORIZED DAMPER
- MOTORIZED DAMPER
- BALL/SHUT-OFF VALVE(SEE SPECS)
- FIRE DAMPER
- FIRE / SMOKE DAMPER
- SMOKE DAMPER
- FAN MOTOR

AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
B.D.	BOTTOM OF DUCT
BHP	BRAKE HORSEPOWER
BOG	BOTTOM OF GRILLE
BTU	BRITISH THERMAL UNITS
CFM	CUBIC FEET PER MINUTE
CONN.	CONNECTION
CONT.	CONTINUATION
CW	DOMESTIC COLD WATER
DB	DRY BULB
DIA.	DIAMETER
DIST.	DISTRIBUTION
EXH	EXHAUST AIR
EDB	ENTERING DRY BULB TEMPERATURE
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
FF	FINISH FLOOR
FIXT.	FIXTURE
F.O.B.	FLAT ON BOTTOM
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT.	FEET / FOOT
GA.	GAUGE
GEXH	GREASE EXHAUST AIR DUCT
GPM	GALLONS PER MINUTE
H	HEIGHT
HP	HORSEPOWER
I.D.	INSIDE DIAMETER
IN.	INCHES
L	LENGTH
LBS.	POUNDS
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MA	MAKE UP AIR
MAX.	MAXIMUM
MBH	THOUSANDS OF BTUs PER HOUR
MD	MOTORIZED DAMPER
MIN.	MINIMUM
MVD	MANUAL VOLUME DAMPER
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
N.I.M.	NOT IN MECHANICAL
NO.	NUMBER
N.O.	NORMALLY OPEN
O.A.	OUTSIDE AIR
P	PERSON
PSI	POUNDS PER SQUARE INCH
P/T	PRESSURE / TEMPERATURE
R.A.	RETURN AIR
RECT.	RECTANGULAR
REQ'D	REQUIRED
S.A.	SUPPLY AIR
S.P.	STATIC PRESSURE
SQ.	SQUARE
TEMP.	TEMPERATURE
TYP.	TYPICAL
VAV	VARIABLE AIR VOLUME
W	WIDTH
WB	WET BULB
WPD	WATER PRESSURE DROP
ø	DIAMETER

- (E) EXISTING
- (D) DEMOLISH
- NEW WORK
- G — (G) NATURAL GAS
- CD — (CD) CONDENSATE DRAIN
- RF — (RF) TWO OR THREE REFRIGERANT LINES
- HWS — (HWS) HEATING WATER SUPPLY
- HWR — (HWR) HEATING WATER RETURN
- CHS — (CHWS) CHILLED WATER SUPPLY
- CHR — (CHWR) CHILLED WATER RETURN

EQUIPMENT MAINTENANCE CLEARANCE AND ACCESS

MECHANICAL GENERAL NOTES

A. THE DRAWINGS ARE DIAGRAMMATIC. PROVIDE ALL MATERIAL (NEW AND UNDAMAGED) AND LABOR FOR A COMPLETE AND OPERABLE SYSTEM. VERIFY ALL BUILDING MEASUREMENTS DIMENSIONS AND EQUIPMENT LOCATIONS BEFORE PROCEEDING WITH ANY OF THE WORK.

B. VERIFY ALL EXISTING CONDITIONS RELATIVE TO THE SCOPE OF WORK. REPORT DISCREPANCIES BACK TO THE ENGINEER.

C. VERIFY INDICATED (E)DUCTWORK/PIPE SIZES PRIOR TO RECONNECTING NEW EQUIPMENT. EQUIPMENT SHALL NOT BE CONNECTED TO EXISTING DUCT/PIPE OF SMALLER DIAMETER THAN NEW DUCT/PIPE. REPORT DISCREPANCIES BACK TO ENGINEER.

D. DO NOT FABRICATE EQUIPMENT SUPPORTS/BASES W/O CONFIRMING SPACE EXISTS AND THE BUILDING ATTACHMENT POINTS.

E. REFER TO THE MECHANICAL SPECIFICATIONS FOR MATERIALS, EQUIPMENT, AND ADDITIONAL CONSTRUCTION INSTRUCTIONS NOT COVERED BY THESE PLANS.

F. ALL INSTALLATIONS SHALL COMPLY WITH APPLICABLE FEDERAL AND STATE CODES INCLUDING, 2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC) INCLUDING APPENDIX N FOR OREGON FIRE CODE REGULATIONS, 2023 OREGON PLUMBING SPECIALTY CODE (OPSC), 2022 OREGON MECHANICAL SPECIALTY CODE (OMSC), 2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)-BASED ON ASHRAE 90.1-2019, AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). WHERE TWO CODES DIFFER THE MORE STRICT OF THE TWO SHALL BE FOLLOWED.

G. OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES HAVING JURISDICTION. SUBMIT ALL CERTIFICATES PRIOR TO ACCEPTANCE.

H. COORDINATE ALL MECHANICAL AND CONTROL WORK WITH GENERAL CONTRACTOR, CONTROL CONTRACTOR, ELECTRICAL AND ARCHITECTURAL.

I. COORDINATE OTHER TRADES FOR PATCH/REPAIR OF WALLS WHERE EXISTING SENSORS ARE REMOVED OR MODIFIED.

J. PATCH & REPAIR WALLS / FLOORS / CEILING WHERE OLD DUCTWORK/PIPES HAVE BEEN REMOVED TO MATCH EXISTING FINISHES.

K. COORDINATE WITH OTHER CRAFTS AS REQUIRED TO COMPLETE WORK IN ACCORDANCE WITH CONSTRUCTION SCHEDULE.

L. PROVIDE OWNER INSTRUCTION BY QUALIFIED PERSONNEL ON EQUIPMENT AND SYSTEMS AT OWNER'S REQUEST.

M. ALL DUCTWORK SHALL BE GALVANIZED STEEL, UNLESS OTHERWISE INDICATED, CONFORMING TO LATEST SMACNA, ASHRAE, OMSC, NFPA, AND UL STANDARDS.

N. MANUFACTURERS AND MODEL NUMBERS LISTED IN THE EQUIPMENT SCHEDULES ARE THE BASIS OF DESIGN.

O. CUT WALLS FOR PROPER EQUIPMENT, DUCT OR PIPE INSTALLATION. FILL HOLES WHICH ARE CUT OVERSIZED FOR A TIGHT FIT AROUND OBJECTS PASSING THROUGH.

P. PROVIDE UL LISTED FIRESTOP SYSTEM TO MAINTAIN THE CODE REQUIRED F AND T RATING OF THE CONSTRUCTION ASSEMBLY AT A DUCT/PIPE PENETRATION THROUGH A RATED BUILDING CONSTRUCTION.

Q. INSTALL LABELS ON ALL MECHANICAL EQUIPMENT. SEE SPECIFICATIONS FOR CRITERIA.

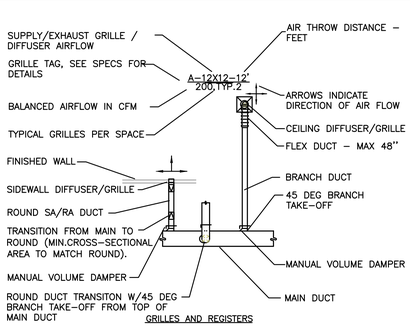
R. CONTROLS AND WIRING SHALL MEET ALL ELECTRICAL REQUIREMENTS OF APPLICABLE ELECTRICAL SPECIFICATIONS AND REQUIREMENTS OF OWNER, BUILDING OFFICIALS AND EQUIPMENT SUPPLIERS OF EQUIPMENT INSTALLED ON PROJECT.

S. ELECTRIC MOTORS SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION OR BE PROTECTED EXTERNALLY WITH SEPARATE THERMAL OVERLOAD DEVICES, WITH LOW-VOLTAGE RELEASE OR LOCK OUT AS REQUIRED.

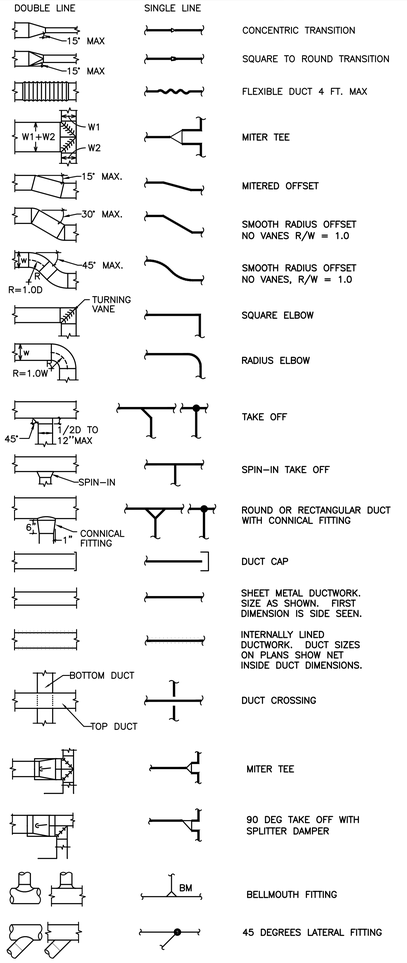
T. ALL NEW EQUIPMENT, PIPING, CONDUIT, AND DUCTWORK SHALL BE INSTALLED PER CURRENT SEISMIC CODE REQUIREMENTS.

U. PROVIDE LOW LEAK AUTOMATIC DAMPERS ON OUTSIDE AIR, EXHAUST AIR AND RELIEF AIR CONTROL DAMPERS WHERE THESE ARE INDICATED.

AIR DISTRIBUTION DETAILS



AIR DISTRIBUTION DETAILS



SYSTEM COMMISSIONING-VERIFICATION AND TESTING REQUIREMENTS:
ASHRAE 90.1-2019 REQUIREMENTS
SECTION 4.2.5 THROUGH 4.2.5.3

THE OWNER OR GC SHALL PROCURE A COMMISSIONING PROVIDER THAT MEETS ONE OF THE FOLLOWING.

THE COMMISSIONING PROVIDER SHALL BE:
a. A THIRD PARTY ENTITY NOT ASSOCIATED WITH THE BUILDING PROJECT
b. AN OWNER'S QUALIFIED EMPLOYEE.
c. AN INDIVIDUAL ASSOCIATED WITH THE DESIGN FIRM, BUT NOT DIRECTLY ASSOCIATED WITH THE DESIGN OR INSTALLATION OF THE BUILDING SYSTEMS.

EXCEPTIONS:
1. BUILDINGS, ADDITIONS, OR ALTERATIONS WITH LESS THAN 10,000 SQ FT OF CONDITIONED SPACE AND COMBINED HEATING, COOLING, AND SERVICE WATER HEATING EQUIPMENT TOTALING LESS THAN 960,000 BTU/H IN CAPACITY.
2. BUILDINGS OR PORTIONS OF BUILDINGS THAT USE THE SIMPLIFIED APPROACH OPTION FOR HVAC SYSTEMS IN SECTION 6.3.
3. DWELLING UNITS
NON-REFRIGERATED WAREHOUSES

CONTRACTOR RESPONSIBILITIES
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL THE REQUIREMENTS OF ASHRAE 90.1-2019.
- THE GENERAL CONTRACTOR OR OWNER SHALL HIRE AND UTILIZE AN APPROVED CX AGENT
- THE CX AGENT SHALL

1. PREPARE A CX PLAN
2. OVERSEE THE TAB MEASUREMENTS
3. CONDUCT THE PR-FUNCTIONAL & FUNCTIONAL TESTS
4. PREPARE THE PRELIMINARY CX REPORT
5. REVIEW THE TAB REPORT
6. REVIEW THE O&M'S
7. PREPARE THE SYSTEMS MANUALS

- SYSTEMS REQUIRED TO BE COMMISSIONED

1. SERVICE WATER HEATERS
2. MIXING VALVES & RECIRC SYSTEMS
3. ROOFTOP UNIT - HALLWAY VENTILATION
4. SPLIT SYSTEM FAN COILS
5. PTHP'S (SAMPLE SELECTION).
6. DWELLING UNIT EXHAUST FANS (SAMPLE SELECTION).
7. LIGHTING CONTROL SYSTEMS
8. OCCUPANCY SENSORS
9. EMERGENCY POWER SYSTEMS (GENERATOR)
10. THERMOSTAT OPERATIONS AND SET POINTS
11. FIRE PIT 7 BBQ TIMERS AND AUTO-SHUT OFF
12. FIRE PUMP AND DOMESTIC WATER BOOSTER PUMP.

3.2 DUCTWORK INSULATION

A. Ductwork: Insulate the following:

1. All supply and return ductwork in systems routed in unconditioned spaces or exposed to the outside conditions.
2. All outside air intake ducts.
3. All ductwork required to be insulated by code.
4. The last 5' of duct work connected to a louver or exhaust termination.

B. Insulation Thickness: Select board and blanket insulation of thickness required to provide the following installed R-value.

1. All heating or cooling system supply and return ducts located on the exterior of the insulated building envelope, including ventilated attics, and all outside air intake ducts, R-8.
2. All heating and cooling system supply and return ducts located in unconditioned spaces within the building insulation envelope, R-5.
3. All heating and cooling system supply ducts located in conditioned spaces and where exposed in unfinished spaces or concealed from view in finished spaces, R-3.3. Exposed ductwork in finished spaces shall not be externally insulated.
4. Ducts located within or below concrete slabs on grade, R-4.

C. Fittings: Install with wire, straps, and duct adhesive as required. To prevent sagging on all rectangular or square ducts over 24" wide, install Gramweld or equal welding pins on the bottom. Maximum spacing 18" on center in both directions.

D. Installation: Applied with butt joints, all seams sealed with vapor seal mastic or taped with 2" wide vapor-proof, pressure-sensitive tape. Seal all penetrations with vapor barrier adhesive.

E. Internally Lined Ductwork: Where internally lined ductwork is indicated on the Drawings and/or specified, no exterior insulation is required. Select duct lining to provide the required R-value. Carefully lap the ends of the exterior insulation a minimum of 6" past the interior insulation unless otherwise shown. Seal the end of vapor barrier jacket to the duct with mastic where the vapor barrier is required.
E.1. Line Supply and Return ducts for 10' on intake and discharge of fan.
E.2. Line Supply ducts routed in vertical shafts directly below RTUs

FIRE PENETRATION REQUIREMENTS FOR DUCTS:

2022 OMSC (OREGON MECHANICAL SPECIALTY CODE) & 2019 OSSC (OREGON STRUCTURAL SPECIALTY CODE)

CODE SECTIONS -SPECIFIC REQUIREMENTS, EXCEPTIONS AND DESIGN APPROACH REQUIREMENTS.

SECTION 607.6 - HORIZONTAL ASSEMBLIES
PENETRATIONS BY DUCTS OF A FLOOR/CEILING OR ROOF/CEILING ASSEMBLY SHALL BE PROTECTED BY A SHAFT ENCLOSURE THAT COMPLIES WITH SECTIONS 713, 717.6.1 THROUGH 717.6.3 (OSSC)
(SEE BELOW FOR VERTICAL ASSEMBLIES/SHAFT PENETRATIONS OR VERTICAL FIRE PARTITIONS - THIS WILL APPLY TO ALL DUCTS THAT ARE ROUTED UP IN A RATED SHAFT).
OR
SECTIONS 607.6.1 THROUGH 607.6.3 THROUGH PENETRATIONS OF NOT MORE THAN TWO FLOORS TO BE PROTECTED WITH EITHER LISTED FIRE DAMPER OR A THROUGH PENETRATION PER SECTION 714.5
EXCEPTIONS: DUCTS PERMITTED TO PENETRATE THREE FLOORS OR LESS IF ALL 5 EXCEPTIONS ARE MET UNDER SECTION 607.6.1.

SECTION 607.5.5 SHAFT ENCLOSURES - PENETRATIONS ARE PERMITTED BY DUCTS WITH A LISTED FIRE AND SMOKE DAMPER OR
EXCEPTIONS: (THE FOLLOWING EXCEPTIONS ARE USED IN PART OR IN WHOLE ON THIS PROJECT)
1. FIRE DAMPERS ARE NOT REQUIRED FOR ANY OF THE FOLLOWING
1.1 STEEL EXHAUST SUBDUCTS ARE EXTENDED NOT LESS THAN 22 INCHES ON A SUBDUCT SYSTEM WITH CONTINUOUS FLOW
1.2 PENETRATIONS ARE TESTED IN ACCORDANCE WITH ASTM E119 OR UL263 (SEE ATTACHED CUT SHEETS ON UL PENETRATION DETAILS).
2. GROUP R OCCUPANCIES USING A SUB DUCT SYSTEM AS NOTED ABOVE.
3. SMOKE DAMPERS ARE NOT REQUIRED AT PENETRATIONS OF EXHAUST SHAFTS IN PARKING GARAGES WHEN SHAFTS ARE SEPARATED FROM OTHER SHAFTS BY NOT LESS THAN A 2 HOUR RATING.
4. FIRE OR FIRE SMOKE DAMPERS ARE NOT REQUIRED IN KITCHEN OR CLOTHES DRYER EXHAUST SYSTEMS.

OSSC
SECTION 713.8 PENETRATIONS.
PENETRATIONS IN A SHAFT ENCLOSURE SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 714 AS REQUIRED FOR FIRE BARRIERS.

SECTION 714.2 A LISTED PENETRATION FIRESTOP SYSTEM SHALL BE INSTALLED.

SECTION 714.4.1 THROUGH PENETRATIONS
EXCEPTIONS #2
THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND HOT GASSES SUFFICIENT TO INGITE COTTON WASTE WHEN SUBJECTED TO ASTM E119 OR UL 263.

SECTION 714.4.1.2 THROUGH PENETRATION FIRE STOP SYSTEM
THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRE STOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL1479 (ASSEMBLY TEST) AND SHALL HAVE A F RATING NOT LESS THAN THE REQUIRED FIRE RESISTIVE RATING OF THE WALL PENETRATING.

DUCT CONSTRUCTION AND ROUTING:
- UNLESS PROJECT EXPLICITLY USES A SUB DUCT SYSTEM, SERVED BY ROOF FANS ON A BACK UP POWER SUPPLY, ALL DUCTS ARE ROUTED INDIVIDUALLY TO SIDEWALL OR ROOF TERMINATIONS WITH NO INTER-CONNECTIONS OF DUCT WORK.
- ALL DUCTWORK IS CONSTRUCTED PER OSMC AND PER SMACNA STANDARDS PER THE REQUIRED PRESSURE CLASSES. ALL DUCTWORK WILL BE SEALED TO BE AIR-TIGHT AND WILL NO ALLOW TRANSFER OF SMOKE BETWEEN UNITS OR TO LEAK SMOKE INTO SHAFTS.

BUILDING CONSTRUCTION, FIRE RATED WALLS AND RATED SHAFTS:
- SEE ARCHITECTURAL LIFE SAFETY PLANS FOR RATED WALLS AND SHAFTS
- SEE ARCHITECTURAL WALL SECTION DETAILS AND SHAFT WALL CONSTRUCTION DETAILS FOR REQUIRED FIRE RATINGS AND CONSTRUCTION METHODS.
- PROVIDE A UL LISTED FIRE STOP SYSTEM TO MATCH DUCT CONSTRUCTION AND WALL OR FLOOR CEILING CONSTRUCTION TO ENSURE COMPLIANCE WITH ASTM E119 AND UL 263 STANDARDS - WHICH IS DEMONSTRATED BY THE USE OF UL CONSTRUCTION METHODS COMPLYING WITH ASTM E814 OR UL1479.

MECHANICAL SHEET INDEX

M001 MECHANICAL CODES, LEGENDS & SCHEDULES
M201 MECHANICAL PLAN - LEVEL 01
M202 MECHANICAL PLAN - LEVEL 02
M301 MECHANICAL PIPING & STAT PLAN - LEVEL 01
M401 MECHANICAL PLAN - ROOF
M601 MECHANICAL DETAILS
M602 MECHANICAL DETAILS
* CAPTIVE AIRE DRAWING SET INCLUDED AFTER LAST MECHANICAL SHEET IN SET

INDOOR UNITS - *

MARK NUMBER	FC-1 (36 MBH)	FC-2 (48 MBH)	FC-3 (48 MBH)
SYSTEM	MARKET/BUTCHERING	DINING	KITCHEN/HALL
TYPE	DUCTED	DUCTED	DUCTED
EFFICIENCY	SEE OUTDOOR UNIT	SEE OUTDOOR UNIT	SEE OUTDOOR UNIT
NOMINAL COOLING CAPACITY	48,000 BTUH	48,000 BTUH	48,000 BTUH
HEATING CAPACITY	50,000 BTUH	50,000 BTUH	50,000 BTUH
TOTAL SUPPLY CFM	1600	1600	1600
OSA CFM (MIN/MAX)	25/257	25/257	25/257
EXTERNAL SP. ("H20)	0.25	0.25	0.25
WEIGHT	120 LBS	120 LBS	120 LBS
BASIS OF DESIGN	CARRIER 45MBDAQ36XH3	CARRIER 45MBDAQ48XH3	CARRIER 45MBDAQ48XH3
OUTDOOR UNIT	HP-1 (3 TON)	HP-2 (4 TON)	HP-3 (4 TON)

NOTE: INDOOR UNITS TO BE POWERED THROUGH OUTDOOR UNIT

OUTDOOR UNITS - SPLIT SYSTEM HEAT PUMP

MARK NUMBER	HP-1 (3 TON)	HP-2 (4 TON)	HP-3 (4 TON)
SYSTEM	MARKET/OFFICE	DINING	KITCHEN
TYPE	1-PORT HEAT PUMP	1-PORT HEAT PUMP	1-PORT HEAT PUMP
NORMAL COOLING CAPACITY	36,000 BTUH	48,000 BTUH	48,000 BTUH
NORMAL HEATING CAPACITY	42,000 BTUH	52,000 BTUH	52,000 BTUH
EFFICIENCY SEER/EER	17.8/12.0	16.8/10.4	16.8/10.4
EFFICIENCY HSPF/COP	11.1/--	10.8/--	10.8/--
REFRIGERANT	454	454	454
REFRIGERANT CHARGE	0.32 OZ/FT	0.32 OZ/FT	0.32 OZ/FT
MAX OPERATING TEMPS	115/5	115/5	115/5
MAX PIPING LENGTH	246 FT	246 FT	246 FT
MAX PIPING HEIGHT	98 FT	98 FT	98 FT
VOLTS-PHASE - **	208/230-1 PHASE	208/230-1 PHASE	208/230-1 PHASE
MCA/MOP - **	34/35	44/45	44/45
COMPRESSOR	VARIABLE SPEED	VARIABLE SPEED	VARIABLE SPEED
WEIGHT	200	200	200
BASIS OF DESIGN	CARRIER 37MAHAQ36AA3	CARRIER 37MAHAQ48AA3	CARRIER 37MAHAQ48AA3

* - PROVIDE ALL UNITS THAT CANNOT BE DRAINED BY GRAVITY WITH CONDENSATE PUMP, ROUTE ALL CONDENSATE LINES HIDDEN WITHIN STRUCTURE TO AN APPROVED LOCATION PROVIDED BY THE PLUMBER.

** - ELECTRICAL DATA LISTED FOR REFERENCE ONLY, COORDINATE WITH ELECTRICAL DESIGN BUILD CONTRACTOR FOR VOLTAGE AND PHASE REQUIREMENTS

EXHAUST FANS

MARK NUMBER	EF 1	EF 2
TYPE	CEILING CABINET	
SYSTEM	RESTROOM	
CFM	110	
TOTAL SP. (IN H20)	0.125	
RPM	1190	
TIP SPEED (FPM)	--	
MOTOR WATTS OR HP	47.3 W	
CONTROLLED BY	LIGHTS	
INTERLOCK WITH	NONE	
FAN SPEED CONTROLLER	NO	
WHEEL TYPE	FC	
BACK DRAFT DAMPER	GRAVITY	
ISOLATION	RUBBER	
DESIGN WEIGHT (LBS)	25	
MAX. SONES	3.0	
MAX AMPS - ***	0.40	
POWER (VOLTS/PHASE/HZ) - *	120/60/1	
BASIS OF DESIGN:	BROAN A110	

* ELECTRICAL DATA LISTED FOR REFERENCE ONLY, COORDINATE WITH ELECTRICAL DEIGN BUILD CONTRACTOR FOR VOLTAGE AND PHASE REQUIREMENTS

EXHAUST FANS

MARK NUMBER	SF 1	SF 2	SF 3
TYPE	INLINE	INLINE	INLINE
SYSTEM	FC-1	FC-2	FC-3
CFM	133	632	150
TOTAL SP. (IN H20)	0.25	0.25	0.25
RPM	2146	2500	2781
TIP SPEED (FPM)	--	--	--
MOTOR WATTS OR HP	38 WATTS	335 WATTS	65 WATTS
CONTROLLED BY	--	--	--
INTERLOCK WITH	FC-1	FC-2	FC-3
FAN SPEED CONTROLLER	NO	NO	NO
WHEEL TYPE	--	--	--
BACK DRAFT DAMPER	GRAVITY	GRAVITY	GRAVITY
ISOLATION	--	--	--
DESIGN WEIGHT (LBS)	15	35	25
MAX. SP	.55	2.95	1.15
POWER (VOLTS/PHASE/HZ) - *	120/60/1	120/60/1	120/60/1
BASIS OF DESIGN:	S&P TD MIXVENT		
MODEL NUMBER:	TD-125	TD-315	TD-150

* ELECTRICAL DATA LISTED FOR REFERENCE ONLY, COORDINATE WITH ELECTRICAL DEIGN BUILD CONTRACTOR FOR VOLTAGE AND PHASE REQUIREMENTS

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05/08/2026

REGISTERED PROFESSIONAL ENGINEER 54,807 OREGON JULY 11, 2005 MARK V. DENYER
EXPIRES: 31DEC27

PROJECT NUMBER: 2429a

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PHASE:

PERMIT SET

REVISIONS:

DATE	DESCRIPTION

SHEET TITLE:

MECHANICAL CODES, LEGENDS & SCHEDULES

DRAWN BY:
CHECKED BY:
DATE CREATED: 05/08/26

SHEET:

M001

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GENERAL NOTES:

- SEE CAPTIVE AIRE DRAWING SET FOR ALL INFORMATION ON KITCHEN HOOD, GREASE DUCT, GREASE FAN, AND MAKE-UP AIR UNIT.

MECHANICAL PLAN NOTES (#)

(1) — EXTEND EXISTING 12X16 GREASE DUCT IN SHAFT TO GREASE HOOD EXH DUCT CONNECTION. SEE ROOF PLAN ON SHEET M2.02 FOR GREASE FAN AND CURB AT EXISITING ROOF STUB-OUT. SEE CAPTIVE AIRE DRAWINGS INCLUDED IN THIS SET FOR ALL INFORMATION ON KITCHEN HOOD, GREASE DUCT, GREASE FAN, ETC.

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(3) — DUCTED FAN COIL. ROUTE CONDENSATE DRAIN PER FLOOR PLAN AS SHOWN. SEE 7/M601

(4) — GRAVITY BACKDRAFT DAMPER TO OPERATE WITH OPERATION OF FAN COIL AND ASSOCIATED SUPPLY FAN FOR VENTILATION.

(5) — NOT USED.

(6) — SPIRAL DUCT GRILLE – TITUS S300FL. GRILLE TO BE MATCHED TO RADIUS OF INSTALLED DUCT. PROVIDE W/ AIR SCOOP EXTRACTOR. ADJUST BLADES TO DIRECT AIRFLOW TO SPACE.

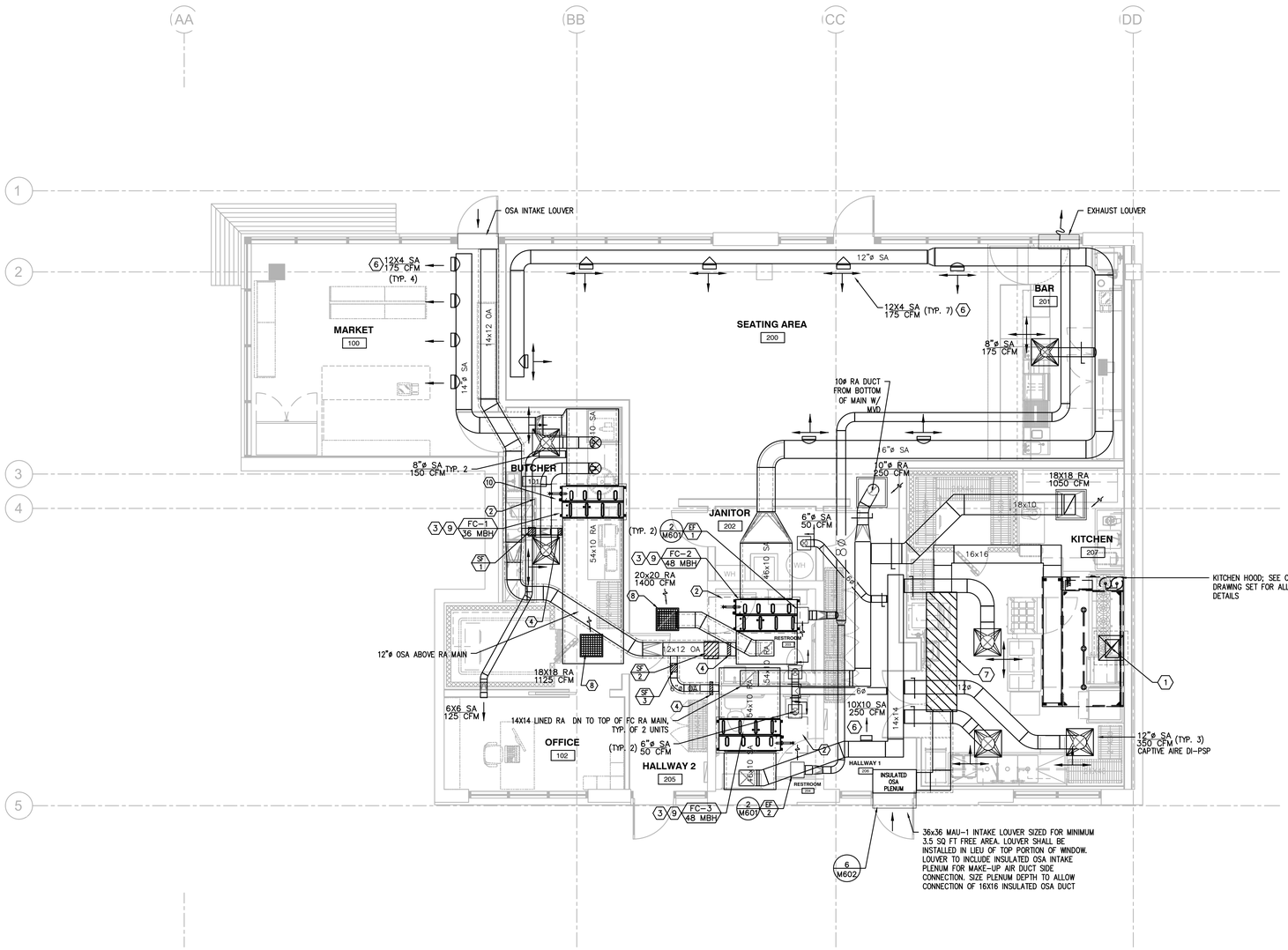
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(11) — ROUTE NEW REFRIGERANT LINE SET FOR FC-3 UP TO FLOOR ABOVE, ADJACENT TO EXISTING LINE SETS FROM ROOF.



1 / M201 LEVEL 01 – MECHANICAL PLAN
SCALE: 1/4"=1'-0"

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PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 01 MECHANICAL PLAN

DRAWN BY:
CHECKED BY:
DATE CREATED: 05/08/26

SHEET:

M201

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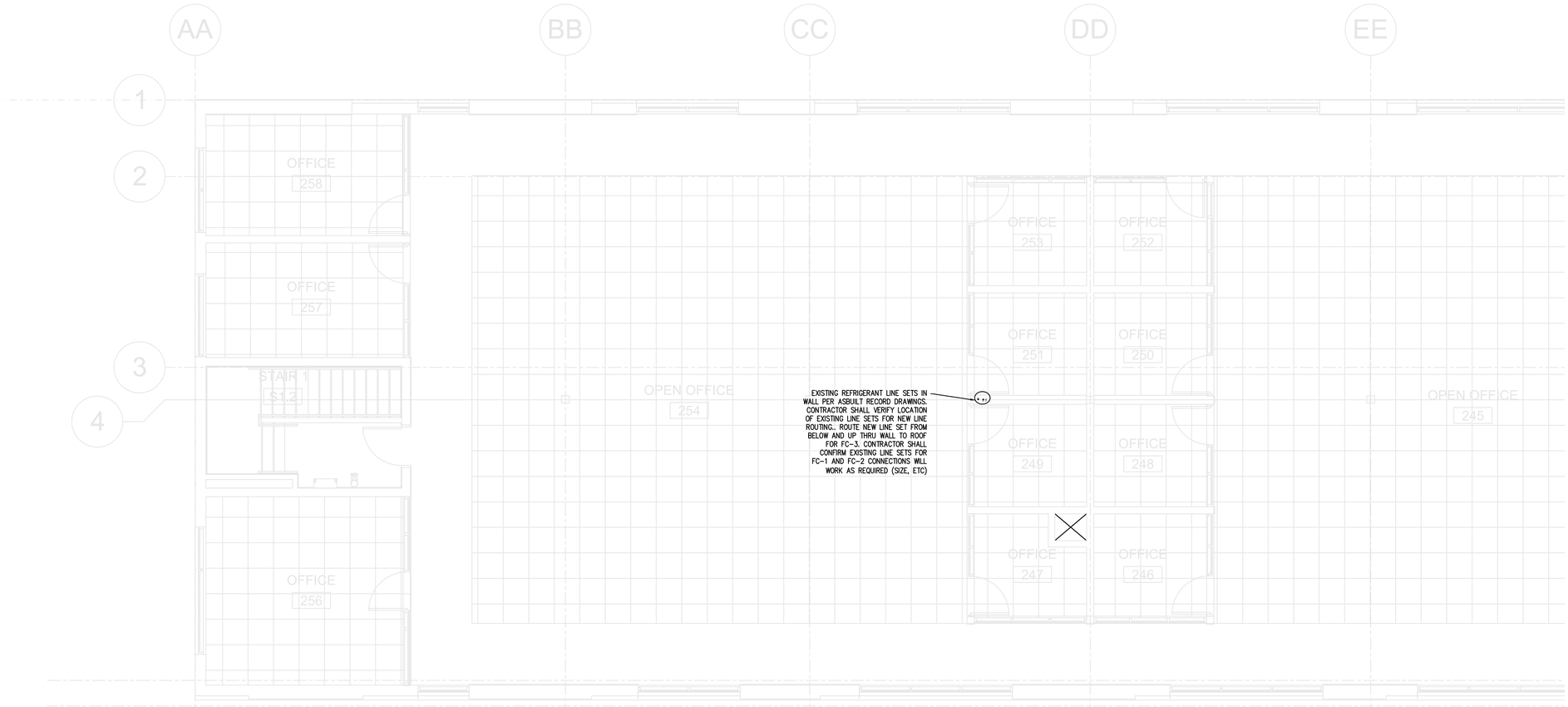
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GENERAL NOTES:

- SEE CAPTIVE AIRE DRAWING SET FOR ALL INFORMATION ON KITCHEN HOOD, GREASE DUCT, GREASE FAN, AND MAKE-UP AIR UNIT.

MECHANICAL PLAN NOTES

1. EXTEND EXISTING 12X16 GREASE DUCT IN SHAFT TO GREASE HOOD EXH DUCT CONNECTION. SEE ROOF PLAN ON SHEET M2.02 FOR GREASE FAN AND CURB AT EXISITING ROOF STUB-OUT. SEE CAPTIVE AIRE DRAWINGS INCLUDED IN THIS SET FOR ALL INFORMATION ON KITCHEN HOOD, GREASE DUCT, GREASE FAN, ETC.
2. TYPICAL FAN COIL ACCESS PANEL TO ALLOW FOR FULL MAINTENANCE ACCESS AND FULL REMOVAL OF FAN COIL. DISCONNECT SWITCH TO BE LOCATED WITHIN REACH OF ACCESS PANEL. COORDINATE ACCESS LOCATION W/ ARCHITECT. ACCESS MAY BE EITHER PANEL BELOW UNIT, OR WALL ACCESS INTO MECHANICAL WELL. ENSURE ALL UNIT SERVICE CLEARANCES ARE MET, AND THAT ACCESS ALLOWS FOR REMOVAL AND REPLACEMENT OF THE UNIT.
3. DUCTED FAN COIL. ROUTE CONDENSATE DRAIN PER FLOOR PLAN AS SHOWN. SEE 7/M601
4. GRAVITY BACKDRAFT DAMPER TO OPERATE WITH OPERATION OF FAN COIL AND ASSOCIATED SUPPLY FAN FOR VENTILATION.
5. NOT USED.
6. SPIRAL DUCT GRILLE - TITUS S300FL. GRILLE TO BE MATCHED TO RADIUS OF INSTALLED DUCT. PROVIDE W/ AIR SCOOP EXTRACTOR. ADJUST BLADES TO DIRECT AIRFLOW TO SPACE.
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10. CONNECT (E) REFRIGERANT LINE SETS FROM ROOF TO NEW LINE SETS & EXTEND/ROUTE NEW LINES TO FC-1 & FC-2. CONTRACTOR IS RESPONSIBLE TO VERIFY THAT EXISTING REFRIGERANT LINE SETS ARE APPROPRIATELY SIZED FOR NEW CONNECTIONS; OTHERWISE NEW LINE SETS SHALL BE ROUTED AS REQUIRED PER UNIT.
11. ROUTE NEW REFRIGERANT LINE SET FOR FC-3 UP TO FLOOR ABOVE, ADJACENT TO EXISTING LINE SETS FROM ROOF.



NOTE:
THE ONLY WORK BEING DONE ON THIS FLOOR IS THE ROUTING OF REFRIGERANT LINES FROM THE SPACE BELOW AND UP THRU ROOF TO THE OUTDOOR UNITS. NO OTHER WORK SHALL BE DONE. THE LAYOUT OF EXST EQUIPMENT, DUCTWORK, DIFFUSERS, ETC IS FOR REFERENCE ONLY.

1/M202 LEVEL 02 - MECHANICAL PLAN
SCALE: 1/4"=1'-0"

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REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 02 MECHANICAL PLAN

DRAWN BY:
CHECKED BY:
DATE CREATED: 05/08/26

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M202

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GENERAL NOTES:

- SEE CAPTIVE AIRE DRAWING SET FOR ALL INFORMATION ON KITCHEN HOOD, GREASE DUCT, GREASE FAN, AND MAKE–UP AIR UNIT.

MECHANICAL PLAN NOTES (#)

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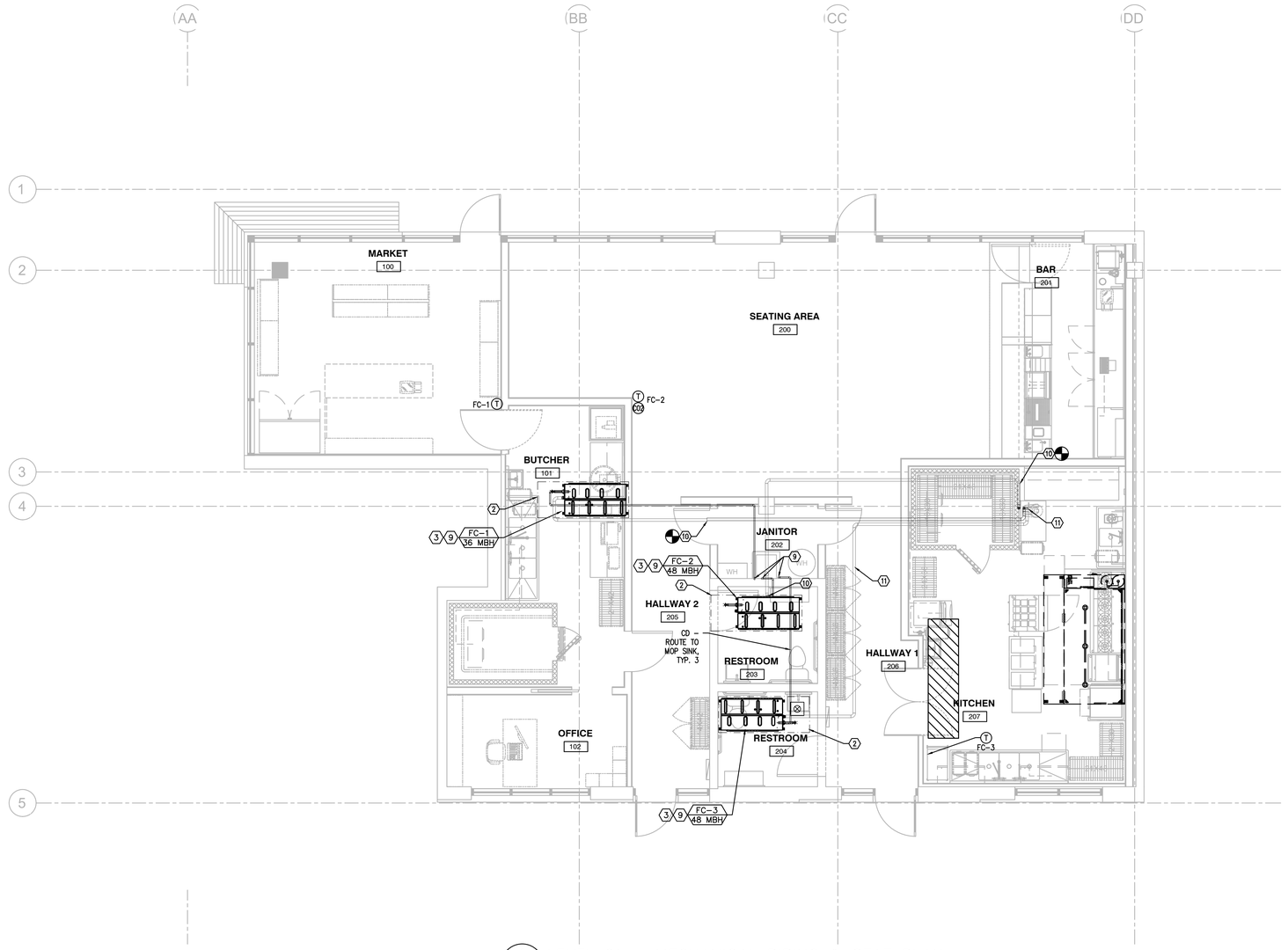
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1 / M301 LEVEL 01 – MECHANICAL PIPING & STAT PLAN
SCALE: 1/4"=1'-0"

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JULY 11, 2005
MARK D. DENYER
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PROJECT NUMBER: 2429a

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REVISIONS:

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SHEET TITLE:

LEVEL 01 MECHANICAL PIPING & STAT PLAN

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CHECKED BY:
DATE CREATED: 05/08/26

SHEET:

M301

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GENERAL NOTES:

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MECHANICAL PLAN NOTES

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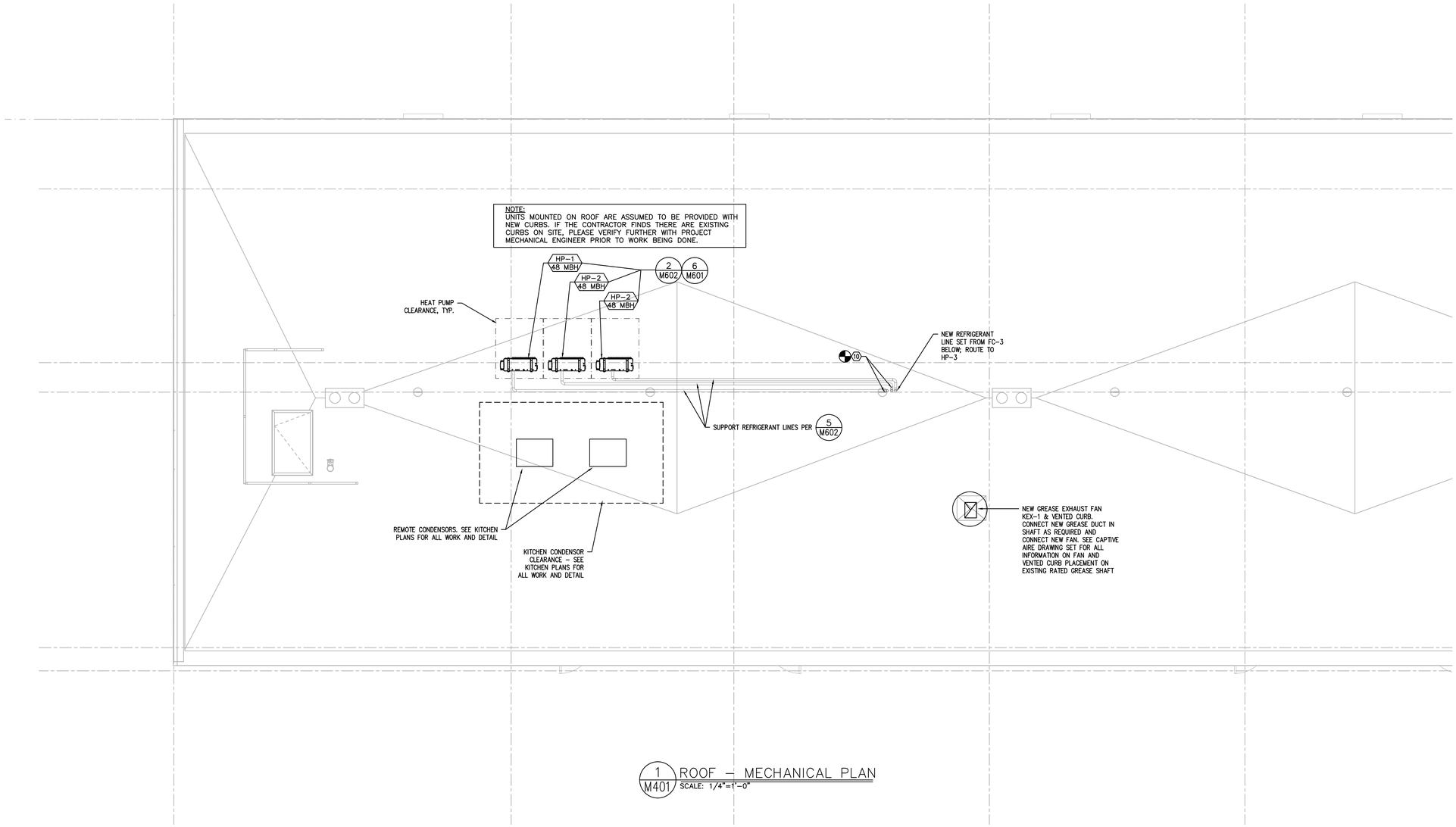
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1/M401 ROOF – MECHANICAL PLAN
SCALE: 1/4"=1'–0"

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PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

ROOF MECHANICAL PLAN

DRAWN BY:
CHECKED BY:
DATE CREATED: 05/08/26

SHEET:

M401

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0 2' 4' 8'

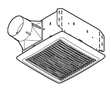
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Salazar Architect, Inc.

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BROAN

SPECIFICATION SHEET

MODELS A80, A110
FLEX™ SERIES FANS



DESCRIPTION

BLOWER:
- Plug-in, permanently lubricated motor - engineered for continuous operation
- Dynamically balanced centrifugal blower wheel for quiet, efficient performance
- Low RPM for quiet operation

HOUSING:
- Rugged, 26 gauge, galvanized steel construction
- Polymeric, 4" duct connector with tapered sleeve and no metallic clatter
- 5¾" height allows for 2" x 6" ceiling installations
- Sturdy, easy, four-point mounting directly to joist
- Can be mounted in ceilings up to 7/12 pitch
- Can be installed in a wall if mounted 8-ft. or more above the floor

GRILLE:
- Polymeric construction
- Innovative design - the result of extensive research with designers and consumers

CONTROLS (Purchase separately):
- Refer to Broan's catalog for a complete line of accessories to effectively adapt these fans to your construction requirements.

U.L. Listed for use over bathtubs and showers when connected to a GFCI protected branch circuit (ceiling mount only).
1-Year Warranty
Note: Model A80 available as housing pack A000HFKTC and finish pack A80F1.
Model A110 available as housing pack A000HFKTC and finish pack A110F1
Broan-NuTone LLC, 926 West State Street, Hartford, Wisconsin, USA 53027 Broan-NuTone.com 800-558-1711
Venmar Ventilation ULC, 550 Lemire Blvd., Drummondville, Québec, Canada J2C 7W9 Broan-NuTone.ca 800-567-3855

TYPICAL SPECIFICATION

Fan shall be Broan Model A80 (A110).

Fan shall have corrosion resistant galvanized steel housing with four-point mounting capability. It shall be ducted to a roof or wall cap using 4" round ductwork.

Blower assembly shall be removable, have a centrifugal-type blower wheel and a permanently lubricated motor designed for continuous operation.

Non-metallic damper/duct connector shall be included.

Air delivery shall be no less than the airflow values and no greater than the sound level values listed in the HVI Performance Specifications provided in this specification (see following chart). All air and sound ratings shall be certified by HVI.

Ceiling Ventilator shall be U.L. Listed for use over bathtubs and showers when connected to a GFCI protected branch circuit.

REFERENCE	QTY.	REMARKS	Project
			Location
			Architect
			Engineer
			Contractor
			Submitted by / Date

52B 99045370E

PERFORMANCE RATINGS
FLEX™ SERIES FANS

HVI PERFORMANCE

Model	0.1 Ps - Static Pressure (in. H_2O)				0.25 Ps
	Airflow (CFM)	Sound (Sones)	Power (Watts)	Efficacy (CFM / W)	Airflow (CFM)
A80	80	2.0	43.1	1.89	67
A110	110	3.0	46.9	2.36	102

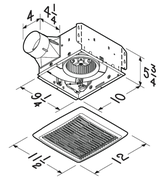
HVI 2100 CERTIFIED

HVI-2100 CERTIFIED RATINGS comply with new testing technologies and procedures prescribed by the Home Ventilating Institute, for off-the-shelf products, as the industry standard for ventilating fans. Performance is rated at 0.1 in. static pressure, based on tests conducted in a state-of-the-art test laboratory. Sones are a measure of humanly-perceived loudness, based on laboratory measurements.

ELECTRICAL & WEIGHT

Model	Volts	Hz	Amps	Shipping Weight
A80	120	60	0.37	10.0 lb.
A110	120	60	0.40	10.0 lb.

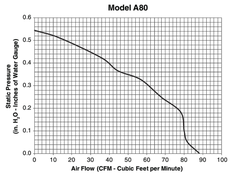
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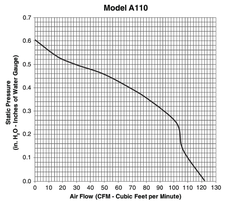
NOTE: Dimensions shown are in inches.

AIR FLOW PERFORMANCE

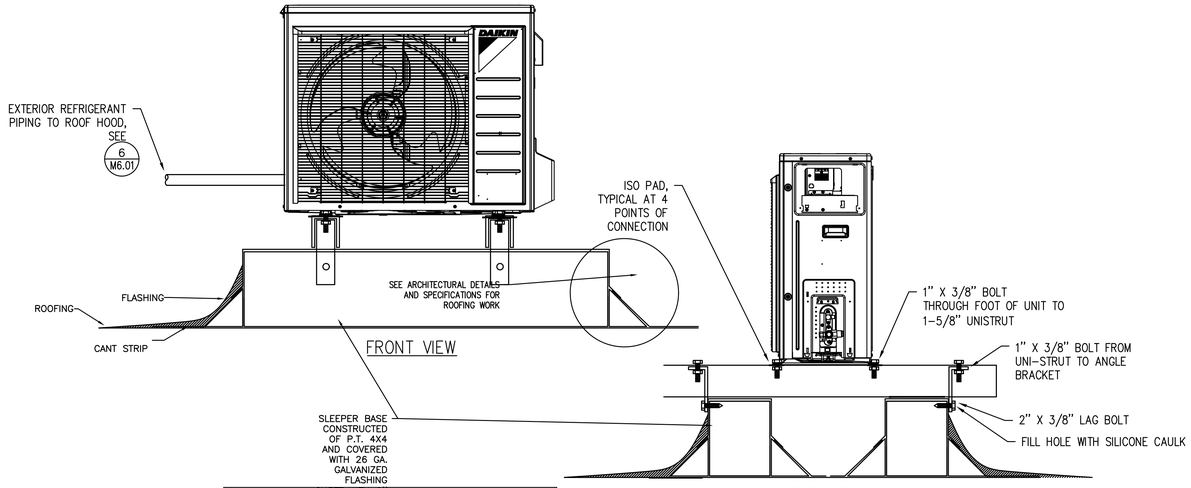
Model A80



Model A110



BROAN Broan-NuTone LLC, 926 West State Street, Hartford, Wisconsin, USA 53027 Broan-NuTone.com 800-558-1711
Venmar Ventilation ULC, 550 Lemire Blvd., Drummondville, Québec, Canada J2C 7W9 Broan-NuTone.ca 800-567-3855



NOTE: UNITS MOUNTED ON ROOF ARE ASSUMED TO BE PROVIDED WITH NEW CURBS. IF THE CONTRACTOR FINDS THERE ARE EXISTING CURBS ON SITE, PLEASE VERIFY FURTHER WITH PROJECT MECHANICAL ENGINEER PRIOR TO WORK BEING DONE.

2 M601 ROOF MOUNT HEAT PUMP
SCALE: DETAIL

VENTILATION AIR SCHEDULE - MARKET

ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD (#/1000 SQ. FT.)	NUMBER OF OCCUPANTS	OUTSIDE AIR REQUIREMENT (CFM/P)	OUTSIDE AIR REQUIREMENT (CFM/SQ FT.)	OUTSIDE AIR REQUIRED (CFM)		ZONE OSA (CFM)	SUPPLY AIR (CFM)	PRIMARY OSA FRACTION	RETURN AIR (CFM)	EXHAUST AIR (CFM)	Zone Ventilation Efficiency	Corrected OSA CFM	AIR SYSTEMS
	Az		**Pz**	**Rp**	**Ra**	**Vbz**	**Ez**	**Voz**	**Vpz**	**Zp**			**Evz**		
132 MARKET PREP	163	20	4	7.5	0.12	50	0.8	62	300	0.21	300	0	0.97	64.15	FC-1
MARKET OFFICE	91	5	1	5	0.06	10	0.8	13	125	0.10	125	0	1.07	13.54	FC-1
132 MARKET	289	8	3	7.5	0.06	40	0.8	50	300	0.17	300	0	1.01	51.57	FC-1
TOTAL	**543**		**8**			**100**		**125**	**725**		**725**	**0**	**0.97**	**129**	
								Vou	**Vps**				**Ev**		
					CORRECTED TOTAL OUTDOOR AIR FLOW RATE				**129**	**CFM**	**Corrected OSA Fractio**		**Zs =**	**0.18**	

VENTILATION AIR SCHEDULE - DINING

ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD (#/1000 SQ. FT.)	NUMBER OF OCCUPANTS	OUTSIDE AIR REQUIREMENT (CFM/P)	OUTSIDE AIR REQUIREMENT (CFM/SQ FT.)	OUTSIDE AIR REQUIRED (CFM)		ZONE OSA (CFM)	SUPPLY AIR (CFM)	PRIMARY OSA FRACTION	RETURN AIR (CFM)	EXHAUST AIR (CFM)	Zone Ventilation Efficiency	Corrected OSA CFM	AIR SYSTEMS
	Az		**Pz**	**Rp**	**Ra**	**Vbz**	**Ez**	**Voz**	**Vpz**	**Zp**			**Evz**		
DINING	774	70	55	7.5	0.12	505	0.8	632	1400	0.45	1400	0	1.00	631.73	FC-2
TOTAL	**774**		**55**			**505**		**632**	**1400**		**1400**	**0**	**1.00**	**632**	
								Vou	**Vps**				**Ev**		
					CORRECTED TOTAL OUTDOOR AIR FLOW RATE				**632**	**CFM**	**Corrected OSA Fractio**		**Zs =**	**0.45**	

VENTILATION AIR SCHEDULE - KITCHEN/RR/HALL

ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD (#/1000 SQ. FT.)	NUMBER OF OCCUPANTS	OUTSIDE AIR REQUIREMENT (CFM/P)	OUTSIDE AIR REQUIREMENT (CFM/SQ FT.)	OUTSIDE AIR REQUIRED (CFM)		ZONE OSA (CFM)	SUPPLY AIR (CFM)	PRIMARY OSA FRACTION	RETURN AIR (CFM)	EXHAUST AIR (CFM)	Zone Ventilation Efficiency	Corrected OSA CFM	AIR SYSTEMS
	Az		**Pz**	**Rp**	**Ra**	**Vbz**	**Ez**	**Voz**	**Vpz**	**Zp**			**Evz**		
KITCHEN	408	10	5	7.5	0.12	86	0.8	108	500	0.22	500	0	0.96	112.47	FC-3
DINING HALL 1	124	0	0	0	0.06	7	0.8	9	100	0.09	100	0	1.08	9.68	FC-3
DIMING HALL 2	124	0	0	0	0.06	7	0.8	9	100	0.09	100	0	1.08	9.68	FC-3
RESTROOM 130	50	0	0	0	0.12	6	0.8	8	50	0.15	0	100	1.03	7.80	FC-3
RESTROOM 131	50	0	0	0	0.12	6	0.8	8	50	0.15	0	100	1.03	7.80	FC-3
TOTAL	**756**		**5**			**113**		**142**	**800**		**700**	**200**	**0.96**	**147**	
								Vou	**Vps**				**Ev**		
					CORRECTED TOTAL OUTDOOR AIR FLOW RATE				**147**	**CFM**	**Corrected OSA Fractio**		**Zs =**	**0.18**	

1 M601 CEILING EXHAUST FAN
SCALE: DETAIL

3 M601 TYPICAL DIFFUSER DETAIL
DETAIL

4 M601 REFRIGERANT ROOF PENETRATIONS
DETAIL

PPH TYPE PP10 WITH STRUT, OR EQUAL.

5 M601 ROOF MOUNTED REFRIGERANT PIPE SUPPORT
DETAIL

6 M601 NEW MAKE-UP AIR UNIT OSA LOUVER @ EXST WINDOW
DETAIL

NOTE: LOCATE SUPPORT & SIESMIC TO MAINTAIN UNHINDERED ACCESS FOR MAINTENANCE OF UNIT.

7 M601 DUCTED FAN COIL UNIT
DETAIL

SALAZAR ARCHITECT
2222 NE OREGON ST.
SUITE 101
PORTLAND, OR 97232
PHONE: 503.702.2575
WWW.SALAZARCH.COM

05/08/2026

REGISTERED PROFESSIONAL ENGINEER 54,607 OREGON JULY 11, 2005 MARK D. DENYER
EXPIRES: 31DEC27

PROJECT NUMBER: 2429a

NICK FISH TI - MERKATO

10560 NE HALSEY ST, PORTLAND, OR 97220

CLIENT:

PROSPER PORTLAND

220 NW 2ND AVE, SUITE 200, PORTLAND, OR 97209

PHASE:

PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

MECHANICAL DETAILS

DRAWN BY:
CHECKED BY:
DATE CREATED: 05/08/26

SHEET:

M601

MFIA INC. Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
WWW.MFIA-ENG.COM
CONTACT: MARK DENYER

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0 2" 4" 8"

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Salazar Architect, Inc.

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ELECTRICAL SYMBOL LIST

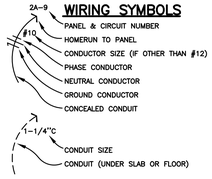
LIGHTING SYMBOLS

- LIGHT FIXTURE, RECESSED
- LIGHT FIXTURE, RECESSED – EMERGENCY
- LIGHT FIXTURE, SURFACE MOUNT
- LIGHT FIXTURE, SURFACE MOUNT – EMERGENCY
- LIGHT FIXTURE, STRIP
- LIGHT FIXTURE, STRIP – EMERGENCY
- DOWNLIGHT FIXTURE, RECESSED
- DOWNLIGHT FIXTURE, RECESSED, WALLWASH
- DOWNLIGHT FIXTURE, RECESSED – EMERGENCY
- LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, CEILING MOUNT
- RECESSED LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, WALL SCONCE
- LIGHT FIXTURE, COVE – RECESSED
- LIGHT FIXTURE, COVE – SURFACE
- LIGHT FIXTURE, UNDER CABINET/SHELF
- EXIT SIGN, UNIVERSAL MOUNT, W/ DIRECTIONAL ARROW
- EXIT SIGN, WALL MOUNT, +8'–0" A.F.F.
- EMERGENCY LIGHT W/ BATTERY PACK, +8'–0" A.F.F.
- FLOOD LIGHT
- AREA LUMINAIRE, POST TOP
- AREA LUMINAIRE, BOLLARD
- AREA LUMINAIRE, WALL MOUNT
- AREA LUMINAIRE, POLE MOUNT

SWITCH SYMBOLS

- $ SWITCH, SPST +48" A.F.F.
- $$_2$$ SWITCH, DPST +48" A.F.F.
- $$_3$$ SWITCH, 3–WAY +48" A.F.F.
- $$_4$$ SWITCH, 4–WAY +48" A.F.F.
- $$_M$$ SWITCH, MOMENTARY +48" A.F.F.
- $$_D$$ SWITCH, DIMMER +48" A.F.F.
- $$_P$$ SWITCH, SPST, W/PILOT LIGHT +48" A.F.F.
- $$_{3P}$$ SWITCH, 3–WAY, W/PILOT LIGHT +48" A.F.F.
- $$_K$$ SWITCH, KEY–OPERATED +48" A.F.F.
- $$_T$$ SWITCH, TIMED +48" A.F.F.
- $ EXISTING SWITCH, SPST
- PHOTOCELL CONTROL
- OCCUPANCY SENSOR CONTROL

WIRING SYMBOLS



- PANEL & CIRCUIT NUMBER
- HOMERUN TO PANEL
- CONDUCTOR SIZE (IF OTHER THAN #12)
- PHASE CONDUCTOR
- NEUTRAL CONDUCTOR
- GROUND CONDUCTOR
- CONCEALED CONDUIT
- CONDUIT SIZE
- CONDUIT (UNDER SLAB OR FLOOR)
- FLEXIBLE CONNECTION
- CONDUIT, STUBBED & CAPPED
- NORMAL POWER CIRCUIT LINETYPE
- EMERGENCY POWER CIRCUIT LINETYPE
- EXISTING POWER CIRCUIT LINETYPE

FIRE RATED INSTALLATION NOTE:

ELECTRICAL ITEMS (LIGHT FIXTURES, BOXES, ETC.) WHICH ARE RECESSED INTO FIRE–RATED CEILINGS OR WALLS, SHALL BE "ALCOVED" IN GYPSUM BOARD ENCLOSURES PER ARCHITECTURAL DETAILS, OR THE DEVICES SHALL BE 'UL' LISTED WITH FIRE–RATING EQUAL TO OR GREATER THAN THE FIRE–RATING OF THE ADJACENT CONSTRUCTION.

POWER SYMBOLS

- RECEPTACLE, SINGLE +18" A.F.F.
- RECEPTACLE, DUPLEX +18" A.F.F.
- RECEPTACLE, QUAD +18" A.F.F.
- RECEPTACLE, DUPLEX +6" ABV COUNTER
- RECEPTACLE, DUPLEX +18" A.F.F. (ONE OUTLET SWITCHED)
- RECEPTACLE, DUPLEX +18" A.F.F. (BOTH OUTLETS SWITCHED)
- RECEPTACLE, DUPLEX, PEDESTAL MOUNT
- RECEPTACLE, DUPLEX, FLUSH FLOOR MOUNT
- RECEPTACLE, SPECIAL (COORDINATE WITH EQUIPMENT SERVED)
- RELAY
- TIME CLOCK CONTROL
- PUSHBUTTON STATION
- JUNCTION BOX
- JUNCTION BOX, EMERGENCY CIRCUIT
- THERMOSTAT
- TRANSFORMER
- DISCONNECT, NON–FUSED
- DISCONNECT, FUSED
- ELECTRICAL CONNECTION
- ELECTRICAL CONNECTION, SINGLE MOTOR
- ELECTRICAL CONNECTION, MULTI–MOTOR
- ELECTRICAL DISTRIBUTION PANEL, RECESSED
- ELECTRICAL DISTRIBUTION PANEL, SURFACE
- MISCELLANEOUS PANEL, RECESSED
- MISCELLANEOUS PANEL, SURFACE
- FLUSH FLOOR BOX (W/ DEVICES AS SHOWN ON PLAN)
- FIRE SMOKE DAMPER

ONE–LINE DIAGRAM SYMBOLS



- ELECTRICAL DISTRIBUTION PANELBOARD (MLO)
- ELECTRICAL DISTRIBUTION PANELBOARD (MCB)
- SUB–FEED CIRCUIT BREAKER
- CIRCUIT BREAKER (TRIP RATING & POLES AS INDICATED ON PLAN)
- MAIN SWITCH (RATING & POLES AS INDICATED ON PLAN)
- FUSE (RATING & CLASS AS INDICATED ON PLAN)
- TRANSFER SWITCH (MANUAL OR AUTOMATIC)
- GENERATOR (RATING AS INDICATED ON PLAN)
- TRANSFORMER (RATING AS INDICATED ON PLAN)
- FUSE (RATING & CLASS AS INDICATED ON PLAN)
- GROUND SYSTEM (SIZE AS INDICATED ON PLAN)
- WATER PIPE GROUND ELECTRODE
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- UTILITY METER & METER BASE
- C.T. UTILITY METER CURRENT TRANSFORMER
- 1 FEEDER NO. (SEE FEEDER SCHEDULE)
- 480/120V POTENTIAL TRANSFORMER (RATING AS INDICATED ON PLANS)

ABBREVIATIONS

'A'	LIGHT FIXTURE TYPE (SEE FIXTURE LIST)
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINAL GRADE
A.F.I.	ARC FAULT INTERRUPTER
A.T.S.	TRANSFER SWITCH, AUTOMATIC
C	CONDUIT
C.O.	CONDUIT ONLY
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
C.T.	CURRENT TRANSFORMER
(E)	EXISTING
E.L.	EMERGENCY LIGHT
E.L.C.	EXTERIOR LIGHTING CONTROL
FACP	FIRE ALARM CONTROL PANEL
G.F.I.	GROUND FAULT INTERRUPTER
GND	GROUND
H.I.D.	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
I.G.	ISOLATED GROUND
I R	INFRARED
JB	JUNCTION BOX
LCP	LIGHTING CONTROL PANEL
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
M.T.S.	TRANSFER SWITCH, MANUAL
(N)	NEW
N.I.C.	NOT IN CONTRACT
N.L.	NIGHT LIGHT
OL	OVERLOAD
O.L.C.	OFFICE LIGHTING CONTROL
P	POLE
P.A.	PUBLIC ADDRESS
PC	PARTIAL CIRCUIT
PH	PHASE
PRI	PRIMARY
R.T.U.	REMOTE TELEMETRY UNIT
SEC	SECONDARY
SCCR	SHORT CIRCUIT CURRENT RATING
T.V.S.S.	TRANSIENT VOLTAGE SURGE SUPPRESSOR
U.G.	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
W.G.	WIRE GUARD
W.P.	WEATHERPROOF
W.T.	WATERTIGHT
X.P.	EXPLOSION PROOF

NOTATIONS

- 1 DRAWING NOTE
- E3/2 DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO.
- AA/2 MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE)
- A EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
- AA EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
- AAA EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
- X1 2–32 FIXTURE REFERENCE: TOP=TYPE, BOTTOM=LAMP QTY & WATTS

GENERAL CONSTRUCTION NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR THOROUGHLY REVIEWING THE PLANS AND SPECIFICATION DOCUMENTS PRIOR TO THE START OF ANY WORK. ANY DISCREPANCIES IN THE PROJECT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY AND PRIOR TO THE START OF ANY WORK.

ALL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED AS IS STANDARD BUILDING PRACTICE.

ALL ELECTRICAL PLANS ARE DIAGRAMMATICAL AND THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES AND FIXTURES.

THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTATION AND COORDINATE WITH ALL OTHER TRADES THROUGHOUT THE COURSE OF THE PROJECT.

ALL WORK SHALL BE IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL CODES. CONTRACTOR SHALL BE RESPONSIBLE TO BE INFORMED OF ALL SUCH CODES AS THEY APPLY TO THE SCOPE OF THE PROJECT.

1. SYMBOLS & ABBREVIATIONS MAY OR MAY NOT APPLY TO PROJECT
2. REFER TO LOW VOLTAGE DRAWINGS FOR ASSOCIATED SYMBOLS

LIGHTING FIXTURE LIST

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
A AE	LED 40K MED LUMENS 45W	LITHONIA (BASIS OF DESIGN)	CPANL LED	TYPE :2X4 SURFACE MOUNTING :SURFACE HOUSING : LENS/REFL : VOLTAGE :MVOLT DRIVER :DIMMING DRIVER	'AE' INCLUDE EM BATTERY BALLAST
B BE	LED 30K 600LMF 25W	PEERLESS (OR APROVED OTHER)	PRPD SERIES	TYPE :4' ARCH PENDANT MOUNTING :PENDANT HOUSING :STEEL LENS/REFL :DIFFUSED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	'BE' INCLUDE EM BATTERY BALLAST
C	LED 25LM 30K/80CRI 21W	ALPHABET LTG (BASIS OF DESIGN)	NUE4	TYPE :4" ROUND DOWNLIGHT MOUNTING :RECESSED HOUSING : LENS/REFL : VOLTAGE :MVOLT DRIVER :DIMMING DRIVER	
D	LED 3500K 1550 LUM (30W)	LITHONIA	FMVCSLS LED SERIES	TYPE :2' LED VANITY LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :MATTE ACRYLIC VOLTAGE :120V DRIVER :LED DRIVER	PROVIDE WITH: L30 LED OPTION 3500K COLOR TEMPERATURE OPTION FINSH AS SELECTED BY ARCHITECT
F	LED 3000K 2000LM/80CRI 25W	LITHONIA (OR APROVED OTHER)	ZL1N SERIES	TYPE :4' GEN. PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :DIFFUSED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	
G	LED	NOVUS DECOR	KINU LANTERN PENDANT	TYPE :SILK GLOBE PENDANT MOUNTING :PENDANT HOUSING :ARTIFICIAL SILK GLOBE LENS/REFL : VOLTAGE :MVOLT DRIVER :DIMMING DRIVER	
G1	LED	NOVUS DECOR	GLASS GLOBE PENDANT	TYPE :GLASS GLOBE PENDANT MOUNTING :PENDANT HOUSING :ROSE COPPER FINISH LENS/REFL : VOLTAGE :MVOLT DRIVER :DIMMING DRIVER	
H	LED 3000K 200 LUM/FT 2.3W/FT	JUNO	JFX SERIES	TYPE :LED TAPE LIGHT MOUNTING :SURFACE HOUSING : LENS/REFL : VOLTAGE :MVOLT DRIVER :DIMMING DRIVER	
X X1	LED (5W)	LITHONIA	LQC SERIES	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :BRUSHED ALUMINUM LENS/REFL :GREEN STENCIL LETTERING VOLTAGE :120V DRIVER :LED DRIVER	'X1' INCLUDE EMERGENCY BUGEYE OPTION EXIT SIGNS ARE TO BE UNSWITCHED

GENERAL NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

B. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE & NATIONAL CODES.

C. CONTRACTOR SHALL REVIEW THE DIVISION 26 SPECIFICATIONS AND THE ENTIRE DRAWING PACKAGE FOR THIS PROJECT PRIOR TO THE START OF ANY WORK.

D. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH ALL OTHER TRADES AND PROVIDE THE APPROPRIATE POWER CONNECTION(S) AND COORDINATE EXACT LOCATIONS PRIOR TO ROUGH IN.

E. THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY ADVISE THE ARCHITECT OF ANY DISCREPANCIES DISCOVERED WITHIN THE DOCUMENTS.

F. ALL PRODUCT SUBMITTALS AND SUBSTITUTIONS SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PLACING ANY ORDERS.

G. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.

H. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR EXACT LOCATION(S) AND ELEVATIONS FOR FIXTURES & DEVICES.

I. ELECTRICAL PANELS LOCATED IN PUBLIC OR UNSECURED SPACES SHALL BE PROVIDED WITH A LOCKABLE DOOR PANEL.

J. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON INDUSTRY STANDARD PRODUCTS. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT WILL FIT THE SPACE AND MAINTAIN REQUIRED WORKING CLEARANCES.

K. COORDINATE WITH LOCAL UTILITY PROVIDER FOR EXACT SERVICE CONDUIT AND CONDUCTORS REQUIREMENTS.

L. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH PGE ELECTRICAL SERVICE REQUIREMENTS.

M. THERE SHALL BE NO SURFACE MOUNTED DEVICES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

N. ELECTRICAL CONTRACTOR SHALL CONSULT ARCHITECTURAL AND INTERIOR DESIGNER'S PLAN DOCUMENTS SUCH AS INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, ETC., FOR FIXTURE AND DEVICE DIMENSIONS NOT OTHERWISE NOTED ON THE ELECTRICAL PLANS.

MFIA PANEL SCHEDULE

panel: 'T1'		mounting: RECESSED		location: TENANT SPACE			connected load amps: 77	
voltage: 120/208V		phase: 3		bus & main: 225A MLO			calculated load amps: 75	
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
1	LIGHTS	300	20/1	1	*	2	20/1	1260	REC - ROOM 100	2
2	RECEPT	540	20/1	3	*	4	20/1	540	REC - ROOM 102	2
3	WATER HEATER	1440	20/1	5	*	6	20/1	720	REC - ROOM 205	2
2	(3) POS - ROOM 100	180	20/1	7	*	8	20/1	900	REC - ROOM 200	2
2	(4) REFRIGERATED DISPLAY	1020	20/1	9	*	10	30/1	2200	(8) MEAT SAW	2
2	(8) MEAT GRINDER	1100	20/1	11	*	12	20/1	850	(14) MEAT CUTTER	2
2	(16) SCALE	1800	20/1	13	*	14	20/1	250	(26) WALK-IN COOLER	2
3	(26.1) REMOTE COOLER COMP.	280	20/2	15	*	16	20/2	136	(26.2) COOLER EVAP COIL	3
3	*	280	*	17	*	18	*	136	*	3
3	EF-1	100	15/1	19	*	20	20/2	354	FC-1	3
3	EF-2	100	15/1	21	*	22	*	354	*	3
3	HP-1	3027	40/2	23	*	24	20/2	354	FC-2	3
3	*	3027	*	25	*	26	*	354	*	3
3	HP-2	3027	40/2	27	*	28	20/1		SPARE	
3	*	3027	*	29	*	30	20/1		SPARE	
	BLANK		----	31	*	32	20/1		SPARE	
	BLANK		----	33	*	34	20/1		SPARE	
	BLANK		----	35	*	36	20/1		SPARE	
	BLANK		----	37	*	38	----		BLANK	
	BLANK		----	39	*	40	----		BLANK	
	BLANK		----	41	*	42	----		BLANK	
	Phase A	8525 VA		NOTES:					line-to-line voltage	
	Phase B	8197 VA							208	
	Phase C	10934 VA							largest motor (va)	
	Total Connected	27656 VA							0	

load code:	ph. A	ph. B		ph. C		total	factor	calculated load (va)
1. LIGHTS=	300	0		0	VA	300	1.25	375
2. RECEPT.=	4390	4300		2670	VA	11360	1 + 0.5	10680
3. HEATING=	3835	3897		8264	VA	15996	1.00	15996
4. EV CHARGING=	0	0		0	VA	0	1.00	0
5. EQUIP.=	0	0		0	VA	0	1.00	0
6. MOTORS=	0	0		0	VA	0	*	0
7. MISC=	0	0		0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)						TOTAL =		27051

MFIA PANEL SCHEDULE

panel: 'T2'		mounting: RECESSED		location: TENANT SPACE			connected load amps: 104	
voltage: 120/208V		phase: 3		bus & main: 225A MLO			calculated load amps: 76	
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
1	LIGHTS	705	20/1	1	*	2	20/1	900	REC - ROOM 201	2
2	RECEPT	540	20/1	3	*	4	20/1	1080	REC - ROOM 200	2
3	WATER HEATER	1440	20/1	5	*	6	20/1	540	REC - ROOM 207	2
2	(46) COFEE MAKER	3050	40/2	7	*	8	20/1	360	REC - ROOM 205	2
2	*	3050	*	9	*	10	20/1	756	(52) BACK BAR REF.	2
2	(53) POS	250	20/1	11	*	12	20/1	250	(53) POS	2
2	(58) ICE MAKER	1380	20/1	13	*	14	20/1	250	(61) WALK-IN COOLER	2
2	(61.1) REMOTE COOLER COMP.	1237	20/2	15	*	16	20/2	136	(26.2) COOLER EVAP COIL	3
2	*	1237	*	17	*	18	*	136	*	3
2	(64) COUNTER TOP MIXER	1800	20/1	19	*	20	20/1	840	(69) FOOD PROCESSOR	2
3	(69) TYPE 1 HOOD	1800	20/1	21	*	22	20/2	718	(69.1) EX. FAN	3
3	(SHUNT TRIP)		*	23	*	24	*	719	*	3
3	(69.2) SUPPLY FAN	540	20/3	25	*	26	*		(SHUNT TRIP)	3
3	*	540	*	27	*	28	20/1	360	REC - ROOM 207	2
3	*	540	*	29	*	30	30/2	2556	(73) OVEN	2
3	(SHUNT TRIP)		*	31	*	32	*	2558	*	2
2	(78) SALAD PREP REF.	300	20/1	33	*	34	30/2	2496	(84) WAREWASHER	2
2	(77) HOT FOOD TABLE	905	20/2	35	*	36	*	2496	*	2
2	*	905	*	37	*	38	20/1		SPARE	
	BLANK		----	39	*	40	20/1		SPARE	
	BLANK		----	41	*	42	20/1		SPARE	
	Phase A	13288 VA		NOTES:					line-to-line voltage	
	Phase B	13013 VA							208	
	Phase C	11070 VA							largest motor (va)	
	Total Connected	37371 VA							0	

load code:	ph. A	ph. B		ph. C		total	factor	calculated load (va)
1. LIGHTS=	705	0		0	VA	705	1.25	881
2. RECEPT.=	12043	9819		8236	VA	30098	1 + 0.5	20049
3. HEATING=	540	3194		2834	VA	6568	1.00	6568
4. EV CHARGING=	0	0		0	VA	0	1.00	0
5. EQUIP.=	0	0		0	VA	0	1.00	0
6. MOTORS=	0	0		0	VA	0	*	0
7. MISC=	0	0		0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)						TOTAL =		27498

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REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1993 ROBERT L. CONNELL
EXPIRES 12-31-2027

PROJECT NUMBER: 2429a

NICK FISH TI - MERKATO

10560 NE HALSEY ST, PORTLAND, OR 97220

CLIENT:

PROSPER PORTLAND

220 NW 2ND AVE, SUITE 200, PORTLAND, OR 97209

PHASE:

PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

ELECTRICAL LEGEND

DRAWN BY: REM
CHECKED BY: RLC
DATE CREATED: 05/08/26

SHEET:

E001

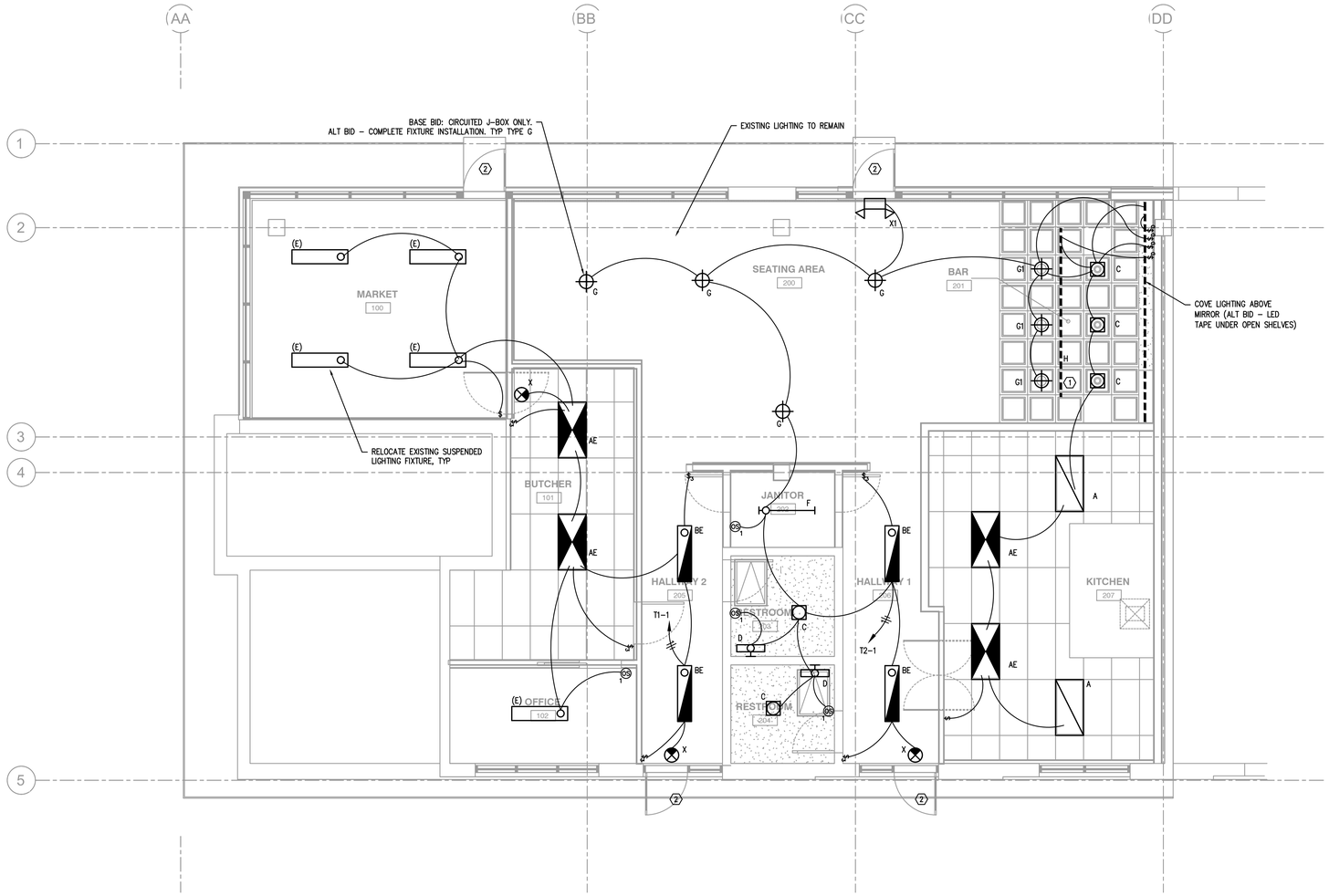
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KEYNOTES:

1. LED TAPE LIGHT INSTALLED AT UNDERSIDE OF BAR. COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
2. EXTERIOR LIGHTING IS EXISTING TO REMAIN.

1 / E201 LIGHTING PLAN
SCALE: 1/4"=1'-0"

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220 NW 2ND AVE, SUITE 200, PORTLAND, OR 97209

PHASE:

PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 01 LIGHTING PLAN

DRAWN BY:	REM
CHECKED BY:	RLC
DATE CREATED:	05/08/26

SHEET:

E201

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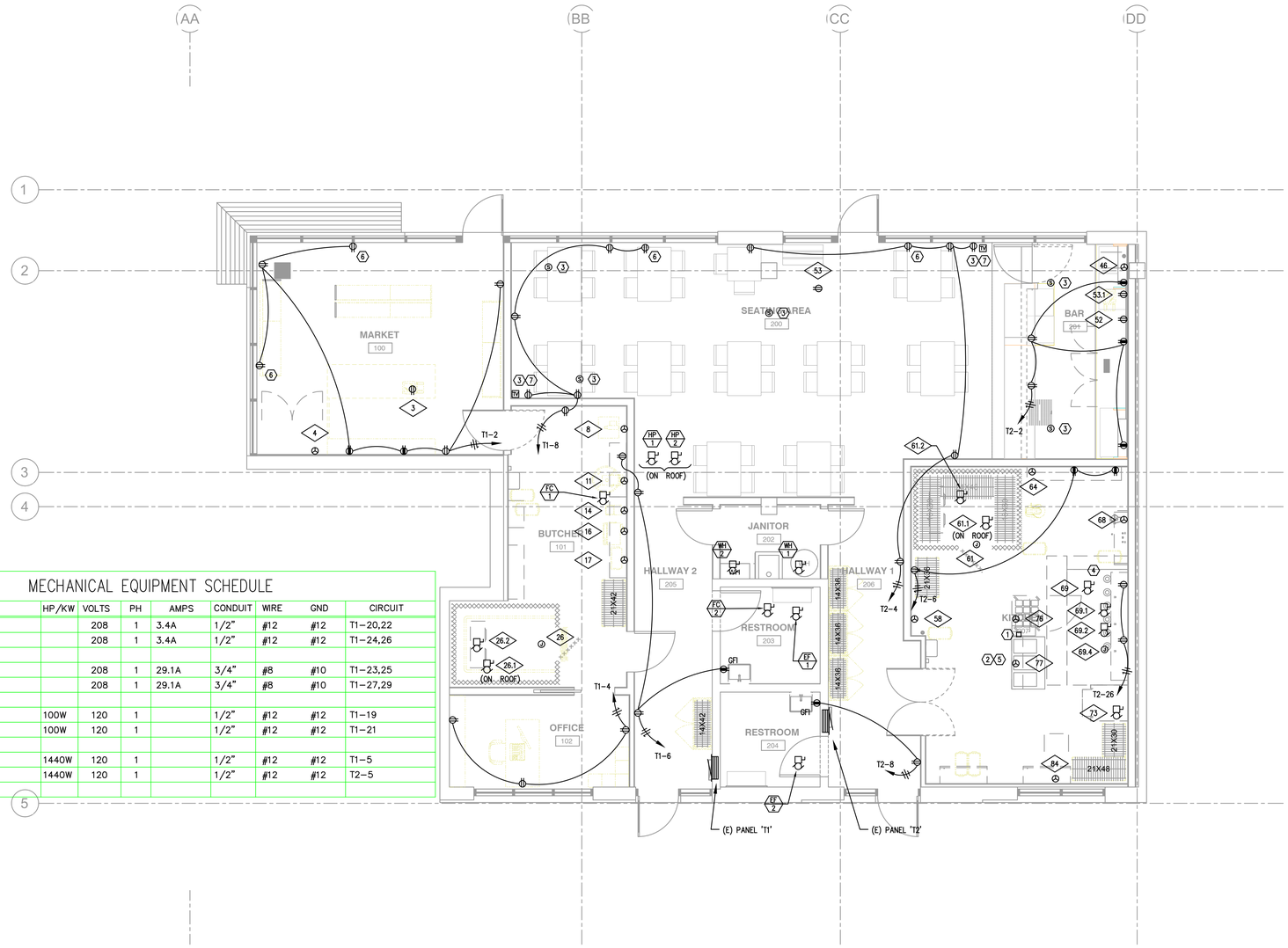
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1 E301 ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
FC-1	FAN COIL UNIT		208	1	3.4A	1/2"	#12	#12	T1-20,22
FC-2	FAN COIL UNIT		208	1	3.4A	1/2"	#12	#12	T1-24,26
HP-1	HP UNIT		208	1	29.1A	3/4"	#8	#10	T1-23,25
HP-2	HP UNIT		208	1	29.1A	3/4"	#8	#10	T1-27,29
EF-1	EXHAUST FAN	100W	120	1		1/2"	#12	#12	T1-19
EF-2	EXHAUST FAN	100W	120	1		1/2"	#12	#12	T1-21
WH-1	WATER HEATER	1440W	120	1		1/2"	#12	#12	T1-5
WH-2	WATER HEATER	1440W	120	1		1/2"	#12	#12	T2-5

KITCHEN EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
3	POS		120	1	15A	1/2"	#12	#12	T1-7
4	DISPLAY CASE, REFRIGERATED		120	1	8.5A	1/2"	#12	#12	T1-9
8	MEAT SAW	2.2KW	120	1		1/2"	#10	#10	T1-10
11	MEAT GRINDER	1.1KW	120	1		1/2"	#12	#12	T1-11
14	MEAT CUTTER	850W	120	1		1/2"	#12	#12	T1-12
16	SCALE		120	1	15A	1/2"	#12	#12	T1-13
26	WALK-IN COOLER	250W	120	1		1/2"	#12	#12	T1-14
26.1	REMOTE COOLER COMP.		208	1	11.9MCA	1/2"	#12	#12	T1-15,17
26.2	COOLER EVAP. COIL		208	1	1.3MCA	1/2"	#12	#12	T1-16,18
46	COFFEE MAKER	6.1KW	208	1		3/4"	#8	#10	T2-7,9
52	BACK BAR REF.		120	1	6.3A	1/2"	#12	#12	T2-10
53	POS		120	1	15A	1/2"	#12	#12	T2-11
53.1	POS		120	1	15A	1/2"	#12	#12	T2-12
58	ICE MAKER		120	1	11.5A	1/2"	#12	#12	T2-13
61	WALK-IN COOLER	250W	120	1		1/2"	#12	#12	T2-14
61.1	REMOTE COOLER COMP.		208	1	11.9MCA	1/2"	#12	#12	T2-15,17
61.2	COOLER EVAP. COIL		208	1	1.3MCA	1/2"	#12	#12	T2-16,18
64	COUNTER TOP MIXER	1.8KW	120	1		1/2"	#12	#12	T2-19
68	FOOD PROCESSOR		120	1	7A	1/2"	#12	#12	T2-20
69	TYPE 1 EXHAUST HOOD		120	1	15A	1/2"	#12	#12	T2-21
69.1	EXHAUST FAN		208	1	6.9FLA	1/2"	#12	#12	T2-22,24
69.2	SUPPLY FAN		208	3	4.5FLA	1/2"	#12	#12	T2-23,25,27
69.4	FIRE PROTEC. SYS.								
73	OVEN		208	1	24.6A	1/2"	#10	#10	T2-28,30
76	REFRIGERATOR		120	1	2.5A	1/2"	#12	#12	T2-29
77	HOT FOOD TABLE		208	1	8.7A	1/2"	#12	#12	T2-31,33
84	WAREWASHER		208	1	24A	1/2"	#10	#10	T2-32,34

PLEASE SEE KITCHEN CONSULTANT DWGS FOR ADDITIONAL INFO

ELECTRICAL NOTES

1. ALL ELECTRICAL ROUGH-IN WORK AND FINAL CONNECTIONS TO ALL FOOD SERVICE AND RELATED EQUIPMENT AS SHOWN ON THE FOODSERVICE EQUIPMENT PLANS TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR PER NATIONAL AND LOCAL CODES.

2. ALL ELECTRICAL MATERIALS INCLUDING WIRING, FLEX, CONDUIT, SWITCHES, DISCONNECTS, MAGNETIC STARTERS, CONTACTORS, THERMAL OVERLOAD PROTECTORS, SHUNT TRIP BREAKERS, TRANSFORMERS, ELECTRICAL PANELS, ETC., SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THESE PLANS.

3. ELECTRICAL CONTRACTOR SHALL SUPPLY KITCHEN EQUIPMENT CONTRACTOR WITH ELECTRICAL PANEL(S) SIZE AND LOCATION ALONG WITH AVAILABLE VOLTAGE AND PHASE.

4. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SHUNT TRIP BREAKERS, CONTACTORS, OR RELAYS FOR ALL ELECTRICAL COOKING EQUIPMENT PROTECTED BY FIRE CONTROL SYSTEM PER CODE.

5. EXHAUST AND SUPPLY AIR EQUIPMENT FOR THE KITCHEN HOODS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS AS SPECIFIED IN THE MECHANICAL ENGINEER'S DOCUMENTS. ELECTRICIAN SHALL PROVIDE POWER AND INSTALL ALL WIRING FROM HOOD CONTROLS TO ROOF EQUIPMENT AS WELL AS TO HOOD LIGHTS, WALL SWITCHES (IF SEPARATE FROM HOOD UTILITY CABINET), ROOM TEMP SENSORS AND MISCELLANEOUS COMPONENTS.

6. ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL COMPONENTS FOR WALK-IN REFRIGERATORS INCLUDING, BUT NOT LIMITED TO: LIGHTS, DOOR VENTS, TIME CLOCK, TEMPERATURE CONTROL DEVICE AND INTERCONNECTIONS BETWEEN REMOTE COMPRESSORS AND INTERIOR MOUNTED EVAPORATOR COILS. ELECTRICIAN SHALL PROVIDE DISCONNECTS, MAGNETIC STARTERS AND THERMO-OVERLOAD PROTECTION FOR COMPRESSORS.

7. ELECTRICAL CONTRACTOR SHALL WRAP FREEZER COIL CONDENSATE WASTE LINE WITH ELECTRICAL HEAT TAPE AND INSULATE TO PREVENT FREEZING.

8. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION OF REMOTE COMPRESSORS SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR AND PROVIDE POWER AND WIRING TO ALL COMPONENTS.

9. ELECTRICAL CONTRACTOR SHALL VERIFY REQUIREMENTS OF CASH REGISTERS, PRINTERS, COMPUTERS AND SOUND SYSTEM, SIGNAGE AND VIDEO UNITS INCLUDING CONDUIT RUNS, DEDICATED AND ISOLATED OUTLET REQUIREMENTS.

10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS INCLUDING OFFICE, MENU BOARD, LIGHTING, TELEPHONE, AND CONVENIENCE OUTLETS, ETC.

11. REFER TO KITCHEN EQUIPMENT CONTRACTOR'S SUBMITTAL DRAWINGS FOR DIMENSIONED LOCATIONS OF ELECTRICAL ROUGH-INS.

12. ALL WIRING SHALL RUN CONCEALED IN WALLS. WHERE WIRING IS STUBBED UP FROM THE FLOOR FOR ISLAND COUNTERS, WIRING SHALL RUN CONCEALED IN CABINET OR IN STAINLESS SUPPORT TUBING TO RECEPTACLES. ALL PEDESTAL RECEPTACLES ON STAINLESS STEEL COUNTERS SHALL BE ENCLOSED IN ALUMINUM HOUSINGS SUCH AS COMPONENT HARDWARE #RSB-1010 OR EQUAL. RECEPTACLES UNDER TABLE TOP SHALL HAVE STAINLESS STEEL FACE PLATE.

13. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL RECESSED OCTAGONAL J-BOX WITH CONCEALED CONDUIT IN WALL FOR FIRE PROTECTION SYSTEM REMOTE PULL STATION. PULL STATION SHALL BE LOCATED AS SHOWN ON ELECTRICAL PLAN.

KEYNOTES:

1. PROVIDE CODE COMPLIANT POWER POLE TO PROVIDE RECEPTACLES FOR THIS EQUIPMENT. HUBBELL SERVICE POLE 'HBLPP10GF' OR APPROVED EQUAL.
2. ALL OUTLETS IN KITCHEN ARE REQUIRED TO BE GFCI PROTECTED.
3. SPEAKER/TV OUTLETS SHOWN FOR INFORMATION ONLY. DESIGN PROVIDED BY OTHERS.
4. SHUNT TRIP BREAKER FOR EQ. SHUTDOWN. COORDINATE PRIOR TO ROUGH-IN.
5. PLEASE REFER TO 'CAPTIVEAIRE' INSTALL DWGS INCLUDED IN THE MECHANICAL SET FOR ADDITIONAL INFO REQUIRED FOR ALL HOOD EQUIPMENT CONNECTIONS.
6. SHOW WINDOW RECEPTACLE, COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
7. COORDINATE INSTALLATION OF RECEPTACLE PRIOR TO ROUGH IN.

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REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1995 ROBERT L. CONNELL
EXPIRES 12-31-2027

PROJECT NUMBER: 2429a

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220 NW 2ND AVE, SUITE 200, PORTLAND, OR 97209

PHASE:

PERMIT SET

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

ELECTRICAL PLAN

DRAWN BY: REM
CHECKED BY: RLC
DATE CREATED: 05/08/26

SHEET:

E301

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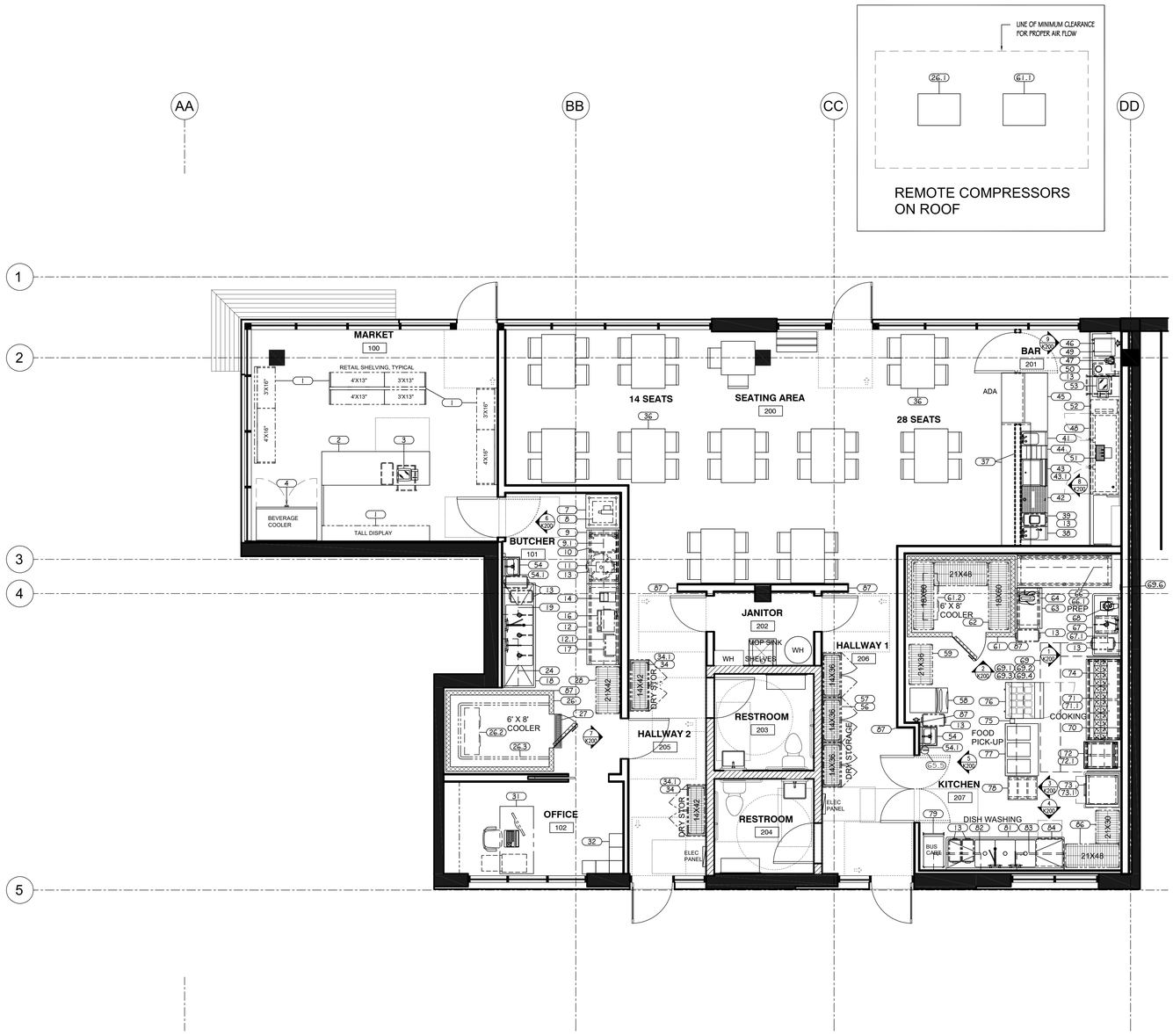
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LEVEL 01 - FOODSERVICE EQUIPMENT PLAN

1/4" = 1'-0"

N

0 2' 4' 8'

EQUIPMENT LIST

ITEM NO	QTY	BY K.E.C.	BY OWNER	BY GEN. CONTR.	DESCRIPTION
1	LOT		X		RETAIL SHELVING
2	1			X	CASHIER COUNTER
3	1		X		POS
4	1	X			DISPLAY CASE, REFRIGERATED
5	-				SPARE NUMBER
6	-				SPARE NUMBER
7	1	X			MEAT CUTTING TABLE
8	1		X		MEAT SAW
9	1	X			MEAT CUTTING TABLE
9.1	1	X			SHELF, WALL MOUNT
10	1	X			MEAT LUG CART
11	1		X		MEAT GRINDER
12	1	X			MEAT WRAPPING TABLE
12.1	2	X			SHELF, WALL MOUNT
13	LOT		X		WASTE CAN
14	1		X		MEAT CUTTER
15	-				SPARE NUMBER
16	1		X		SCALE
17	1		X		WRAPPER
18	1	X			3-COMPARTMENT SINK
19	2	X			SHELF, WALL MOUNT
20	-				SPARE NUMBER
21	-				SPARE NUMBER
22	-				SPARE NUMBER
23	-				SPARE NUMBER
24	2	X			SHELF, WALL MOUNT
25	-				SPARE NUMBER
26	1	X			WALK-IN MEAT COOLER
26.1	1	X			REMOTE COOLER COMPRESSOR
26.2	1	X			COOLER EVAPORATOR COIL
26.3	1		X		MEAT HANGING SYSTEM
27	1			X	FLOOR TROUGH
28	LOT		X		STORAGE SHELVING
29	-				SPARE NUMBER
30	-				SPARE NUMBER
31	LOT		X		OFFICE FURNITURE & EQUIPMENT
32	LOT		X		EMPLOYEE LOCKERS
33	-				SPARE NUMBER
34	1		X		MILLWORK STORAGE CABINET
34.1	LOT		X		STORAGE SHELVING
35	-				SPARE NUMBER
35.1	-				SPARE NUMBER
36	LOT		X		DINING SEATING
37	1			X	BAR TOP & DIE WALL
38	1	X			UNDERBAR HAND SINK
39	1	X			BRIDGE TRASH
40	-				SPARE NUMBER
41	1	X			UNDERBAR DUMP SINK
42	1	X			UNDERBAR GLASS RACK STORAGE
43	1	X			UNDERBAR ICE BIN
43.1	1	X			SPEED RAIL
44	1	X			LIQUOR STEP UNIT
45	1			X	UNDERBAR CABINET
46	1	X			COFFEE MAKER, AIRPOT, AUTOMATIC
47	3	X			AIRPOT
48	1			X	BACK BAR TOP
49	1			X	BACK BAR SHELVING
50	1				WASTE CHUTE
51	1	X			DISPENSING KIT
52	1	X			BACK BAR COOLER
53	1		X		POS, BACK BAR
54	2	X			SINK, HAND, WALL MOUNT
54.1	2	X			SOAP & PAPER TOWEL DISPENSER
55	-				SPARE NUMBER
56	1		X		MILLWORK STORAGE CABINET
57	LOT		X		WIRE STORAGE SHELVING
58	1	X			ICE MAKER W/ BIN
59	LOT		X		STORAGE SHELVING
60	-				SPARE NUMBER
61	1	X			WALK-IN COOLER
61.1	1	X			REMOTE COOLER COMPRESSOR
61.2	1	X			COOLER EVAPORATOR COIL

EQUIPMENT LIST

ITEM NO	QTY	BY K.E.C.	BY OWNER	BY GEN. CONTR.	DESCRIPTION
62	LOT		X		COOLER SHELVING
63	1	X			TABLE, WORK
64	1		X		COUNTER TOP MIXER
65	-				SPARE NUMBER
66	1	X			TABLE, WORK
66.1	2	X			SHELF, WALL MOUNT
67	1	X			PREP SINK
67.1	1	X			SHELF, WALL MOUNT
68	1		X		FOOD PROCESSOR
69	1	X			TYPE I EXHAUST HOOD
69.1	LOT			X	EXHAUST DUCT & FAN
69.2	LOT			X	SUPPLY AIR DUCTWORK & FAN
69.3	LOT	X			HOOD CLOSURE PANELS
69.4	1	X			FIRE PROTECTION SYSTEM
69.5	1	X			TYPE K FIRE EXTINGUISHER
69.6	1	X			HOOD CONTROL SCREEN
70	LOT	X			WALL FLASHING
71	3	X			HOT PLATE, GAS
71.1	1	X			STAND, EQUIPMENT
72	1	X			GRIDDLE, GAS
72.1	1	X			EQUIPMENT STAND
73	1	X			BREAD OVEN, ELECTRIC
73.1	1	X			EQUIPMENT STAND
74	2	X			SHELF, WALL MOUNT
75	1			X	POWER POLE
76	1	X			REFRIGERATOR, SANDWICH/SALAD PREP
77	1	X			HOT FOOD TABLE
78	1	X			RACK, HALF HEIGHT, MOBILE WORK TABLE
79	1	X			CART, UTILITY
80	-				SPARE NUMBER
81	1	X			3-COMPARTMENT SINK WITH PRE-RINSE
82	1	X			SHELF, SOLID SORTING
83	1	X			SHELF, SOLID SORTING
84	1	X			WAREWASHER, UNDERCOUNTER, HIGH TEMP*
85	-				SPARE NUMBER
86	LOT		X		STORAGE SHELVING
87	LOT	X			END CAPS & CORNER GUARDS

*MACHINE EQUIPPED WITH SAFETY TEMP FEATURE TO ASSURE 180-DEGREE SANITIZING RINSE EVERY CYCLE. OWNER TO ENSURE MACHINE OR WATER LINE MOUNTED THERMOMETERS ARE PROVIDED, ACCURATE TO + 30F, TO INDICATE FINAL RINSE TEMP AS IT ENTERS THE MANIFOLD.

GENERAL NOTES

1. THE UTILITY REQUIREMENTS SHOWN ON THESE PLANS ARE FOR FOOD SERVICE EQUIPMENT SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR. THESE PLANS ARE PREPARED AND FURNISHED FOR THE PURPOSE OF INDICATING EQUIPMENT REQUIREMENTS ONLY AND DO NOT RELIEVE THE GENERAL CONTRACTOR, SUB CONTRACTOR OR OTHER INVOLVED TRADES OF THE RESPONSIBILITY TO CONSULT WITH THE ARCHITECT, ENGINEER, OWNER OR HIS REPRESENTATIVE CONCERNING ALL OTHER REQUIREMENTS OF THIS BUILDING OR EQUIPMENT THAT IS EXISTING OR FURNISHED BY OTHERS.

2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO IMMEDIATELY NOTIFY THE KITCHEN EQUIPMENT CONTRACTOR IN WRITING OF ANY CHANGES TO BUILDING THAT AFFECT EQUIPMENT PLACEMENT AND SIZES (I.E., WALL CHANGES, WATER HEATER LOCATIONS, ELECTRICAL PANELS, ETC).

3. ALL UTILITY ROUGH-INS, FINAL CONNECTIONS AND HOOK-UPS SHALL BE PROVIDED AND PERFORMED BY THE RESPECTIVE LICENSED SUB CONTRACTORS IN COMPLIANCE WITH APPLICABLE NATIONAL AND LOCAL CODES.

4. DIMENSIONS SHOWN ARE FROM FACE OF FINISHED WALL OR FLOOR TO CENTERLINE OF ROUGH-IN, UNLESS OTHERWISE INDICATED.

5. THE GENERAL CONTRACTOR SHALL PROVIDE FLOOR, WALL, CEILING AND ROOF PENETRATIONS, INCLUDING THOSE REQUIRED FOR: MAKE-UP AIR AND CLASS II EXHAUST DUCTS AND FIRE-RATED SHAFTS FOR CLASS I EXHAUST DUCTS. THE GENERAL CONTRACTOR SHALL ALSO PROVIDE CONDUIT AND SLEEVES FOR REFRIGERATION, SYRUP, CARBON DIOXIDE GAS, BEER AND WINE LINES. CONDUIT SHALL BE CIRCULAR PVC OR EQUAL WITH A DIAMETER AS INDICATED ON PLANS AND WITH ALL BENDS TO HAVE A MINIMUM RADIUS OF TWENTY-FOUR INCHES.

6. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE WEATHER PROTECTION FOR ALL ROOF AND WALL PENETRATIONS PRIOR TO AND DURING THE INSTALLATION OF THE KITCHEN EQUIPMENT & FURNISHINGS.

7. WHERE EQUIPMENT PRODUCES NOISE THAT MAY VIBRATE THROUGH WALLS TO ANY PUBLIC AND/OR DINING AREAS, THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE SOUND PROOFING IN WALLS.

8. SEISMIC BRACING INFORMATION, IF REQUIRED, IS NOT INDICATED ON THESE PLANS BUT SHALL BE PROVIDED BY THE KITCHEN EQUIPMENT CONTRACTOR UNLESS OTHERWISE SPECIFIED HEREIN.

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REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 01 FOODSERVICE EQUIPMENT PLAN

DRAWN BY: SK/JB
CHECKED BY: JB
DATE CREATED: 05/15/2026

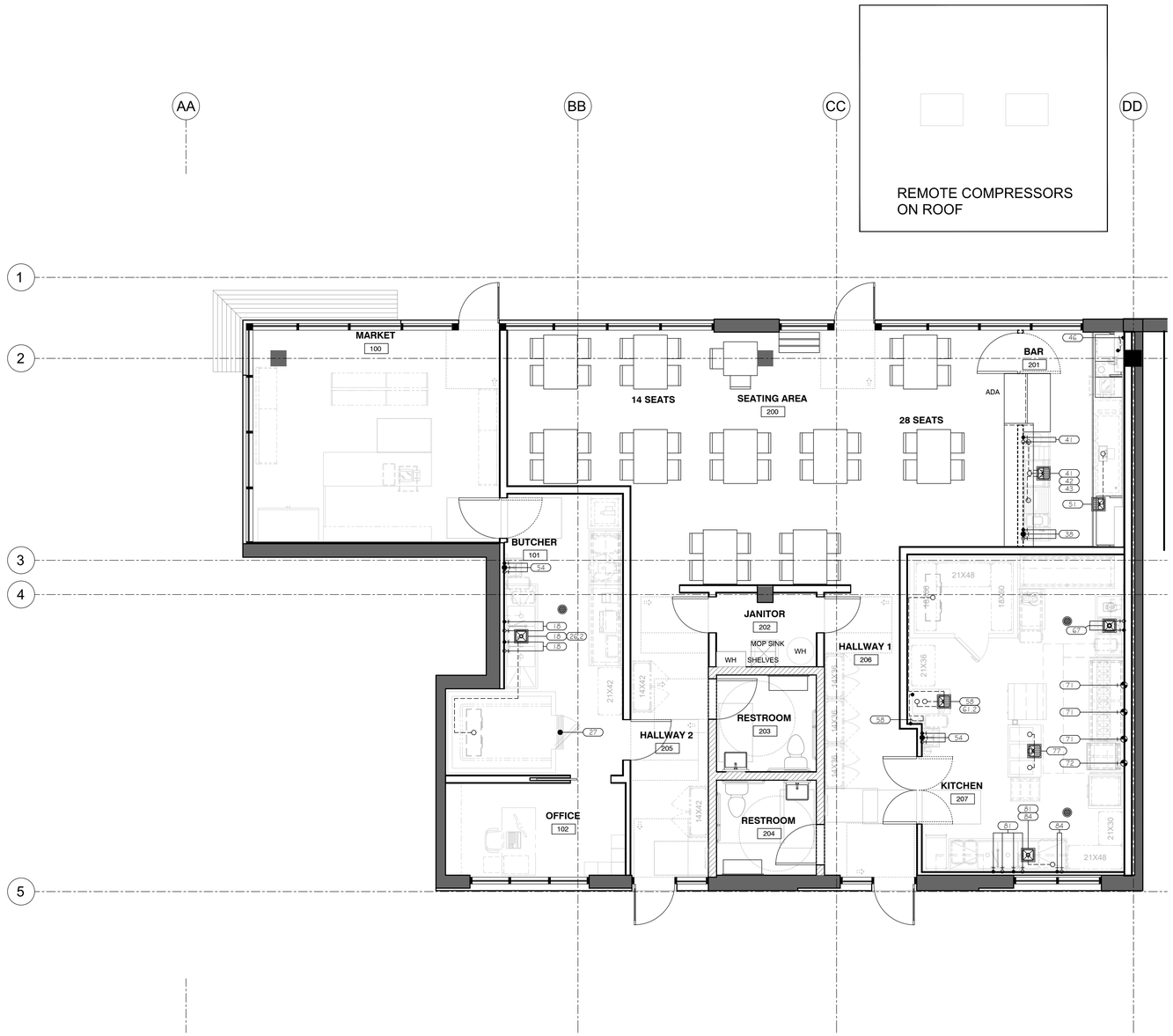
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1 / K102 **LEVEL 01 - FOODSERVICE PLUMBING PLAN**

1/4" = 1'-0"

N

0 2" 4" 8"

PLUMBING SCHEDULE

ITEM NO	QTY	DESCRIPTION	COLD WATER SIZE (IN)	COLD WATER AFF (IN)	HOT WATER SIZE (IN)	HOT WATER AFF (IN)	DIRECT DRAIN SIZE (IN)	DIRECT DRAIN AFF (IN)	INDIR DRAIN SIZE (IN)	GAS SIZE (IN)	MBTUH	GAS AFF (IN)	PLUMBING REMARKS
18	1	3-COMPARTMENT SINK	1/2	14	1/2	14			2				WATER FOR PRE-RINSE UNIT
			3/4	14	3/4	14							WATER FOR FILL FAUCET. SEPARATE INDIRECT DRAIN FOR SANITIZING BOWL.
26.2	1	WALK-IN COOLER EVAPORATOR COIL							3/4				
27	1	FLOOR TROUGH					*						REFER TO PLUMBING ENGINEERS PLANS
38	1	UNDERBAR HAND SINK	3/8	12	3/8	12	1 1/2	10					
41	1	UNDERBAR DUMP SINK	3/8	12	3/8	12			1 1/2				
42	1	UNDERBAR STORAGE WITH DRAINBOARD							1 1/2				
43	1	UNDERBAR ICE BIN							1/2				
46	1	COFFEE MAKER, AIRPOT, AUTOMATIC	3/8	24									ROUTE WATER THROUGH FILTER
51	1	DISPENSING KIT, BACK BAR 4 DIRECT DRAW							1/2				
54	2	SINK, HAND, WALL MOUNT	1/2	18	1/2	18	1 1/2	16					
58	1	ICE MAKER W/ BIN	3/8	40					1/2				FOR ICE MACHINE, ROUTE WATER THRU FILTER
									3/4				FOR STORAGE BIN
61.2	1	WALK-IN COOLER EVAPORATOR COIL							3/4				
67	1	PREP SINK	1/2	16	1/2	16			2				
71	3	HOT PLATE, GAS								3/4	60	30	
72	1	GRIDDLE, GAS								3/4	56.6	30	
77	1	HOT FOOD TABLE, 3 WELL							3/4				
									3/4				
									3/4				
81	1	3-COMPARTMENT SINK	1/2	14	1/2	14			2				WATER FOR PRE-RINSE UNIT
			3/4	14	3/4	14							WATER FOR FILL FAUCET
84	1	WAREWASHER, UNDERCOUNTER, HIGH TEMP	1/2	12	1/2	8			3/4				CONNECT COLD TO DRAIN WATER TEMPERING KIT

PLUMBING NOTES

1. ALL PLUMBING ROUGH-IN WORK AND FINAL CONNECTIONS TO ALL FOOD SERVICE AND RELATED EQUIPMENT AS SHOWN ON FOODSERVICE EQUIPMENT PLANS TO BE PERFORMED BY THE PLUMBING CONTRACTOR PER NATIONAL AND LOCAL CODES.

2. ALL PLUMBING MATERIALS INCLUDING LINE STRAINERS, VALVES, TRAPS, PRESSURE REGULATORS, SIPHON BREAKERS, ETC. SHALL BE SUPPLIED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THESE PLANS.

3. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL DIRECT SINK WASTE LINES AND ALL INDIRECT EQUIPMENT WASTE LINES AS SHOWN ON PLANS AS PER LOCAL CODES, INCLUDING TRAPS, TAIL PIECES, LINE STRAINERS, AND WALK-IN CONDENSATE WASTE LINES, AS REQUIRED. INDIRECT WASTE LINE ROUTING THROUGH CABINETS SHALL BE IN A MANNER SO AS TO MAXIMIZE USABLE STORAGE SPACE.

4. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL GREASE TRAPS OR INTERCEPTORS AS REQUIRED AND COORDINATE SIZES AND LOCATIONS WITH KITCHEN EQUIPMENT CONTRACTOR. FLOOR SINKS SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR IN LOCATIONS SHOWN AND SUPPLIED WITH 3/4 GRATE OR AS SHOWN. PROVIDE AREA DRAINS IN LOCATIONS SHOWN. REFERENCE PLUMBING ENGINEER'S DOCUMENTS FOR SPECIFICATIONS OF THE ABOVE ITEMS.

5. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH ALL FAUCETS AND DRAIN ASSEMBLIES FOR SINKS TO BE INSTALLED BY THE PLUMBING CONTRACTOR.

6. PLUMBING CONTRACTOR SHALL INSULATE ALL INDIRECT WASTE LINES FROM ICE BINS.

7. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL STAINLESS STEEL OR CHROME PLATED ESCUTCHEON PLATES FOR ALL WATER LINES PENETRATING COUNTER TOPS, BACK SPLASHES, WALL FLASHING AND WALK-IN COOLER/FREEZER WALLS.

8. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL WATER HEATERS FOR THIS PROJECT AND ENSURE ADEQUATE WATER SUPPLY FOR THE FOOD SERVICE EQUIPMENT. WATER TEMPERATURE TO THE DISHWASHER SHALL BE 140 DEGREES UNLESS SPECIFIED OTHERWISE. COORDINATE LOCATION OF WATER HEATER WITH KITCHEN EQUIPMENT CONTRACTOR.

9. KITCHEN EQUIPMENT CONTRACTOR SHALL SUPPLY THE MECHANICAL GAS SHUT-OFF VALVE FOR THE FIRE SUPPRESSION SYSTEM FOR INSTALLATION BY THE PLUMBING CONTRACTOR.

10. KITCHEN EQUIPMENT CONTRACTOR SHALL SUPPLY ALL GAS PRESSURE REGULATORS FOR GAS COOKING APPLIANCES FOR INSTALLATION BY PLUMBING CONTRACTOR.

11. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL GAS PRESSURE REDUCING VALVE ON MAIN GAS LINE (MAXITROL 325-3 OR EQUAL) FOR STANDARD PRESSURE TO THE COOKING EQUIPMENT.

12. PLUMBING CONTRACTOR TO FURNISH AND INSTALL WATER, GAS AND DRAINS TO THE ROOF AS REQUIRED BY THE EXHAUST AND MAKE-UP AIR SYSTEM AS SPECIFIED BY THE MECHANICAL ENGINEER.

13. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FIRE SYSTEM SPRINKLER HEADS INSIDE OF WALK-IN COOLER WHEN REQUIRED BY LOCAL CODES.

14. PLUMBING CONTRACTOR SHALL TEST WATER SUPPLY TO THE BUILDING AND INFORM OWNER AND KITCHEN EQUIPMENT CONTRACTOR OF THE RESULTS. WHERE WATER FILTERS ARE FURNISHED FOR ICE MAKERS, STEAMERS OR BEVERAGE EQUIPMENT, PLUMBER SHALL INSTALL AND INTERCONNECT WATER LINE TO THE EQUIPMENT AS SPECIFIED HEREIN.

15. PLUMBING CONTRACTOR SHALL FURNISH BACK FLOW PROTECTION DEVICES ON ALL POTABLE WATER CONNECTIONS FOR ICE MAKERS, BEVERAGE DISPENSERS, STEAMERS, ETC.

16. REFER TO KITCHEN EQUIPMENT CONTRACTOR'S SUBMITTAL DRAWINGS FOR DIMENSIONED LOCATIONS OF PLUMBING ROUGH-INS.

17. ALL WATER, WASTE AND GAS PIPING SHALL RUN CONCEALED IN WALLS AND STUBBED-OUT FOR EACH PIECE OF EQUIPMENT IN LOCATIONS SHOWN. SURFACE RUN PIPING SHALL NOT BE ACCEPTED. FOR ISLAND COUNTERS WITH PIPING STUBBED UP FROM FLOOR, ROUTE IN SUCH A WAY AS TO MAXIMIZE STORAGE AND CONCEALED IN CABINET AS MUCH AS POSSIBLE.

18. FLOOR SINKS AND FLOOR DRAINS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR AND SHALL BE INSTALLED FLUSH WITH THE FINISHED FLOOR. FINISHED FLOOR SHALL SLOPE TO AREA DRAINS PER LOCAL CODES.

19. FLOOR TROUGHS FOR EQUIPMENT, WHERE SPECIFIED AS PART OF THE KITCHEN EQUIPMENT CONTRACTOR'S SCOPE, SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR AND SHALL BE FLUSH WITH THE FINISHED FLOOR.

SYMBOL LEGEND

- FLOOR SINK, 3/4 GRATE
- FLOOR SINK, 1/2 GRATE
- FLOOR SINK, NO GRATE
- HUB DRAIN
- AREA DRAIN
- BEV. LINE PVC STUB-UP
- SANITARY WASTE
- INDIRECT WASTE
- HOT WATER
- COLD WATER
- GAS CONNECTION
- FIELD CONNECTION

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LEVEL 01 FOODSERVICE PLUMBING PLAN

DRAWN BY: SK/JB
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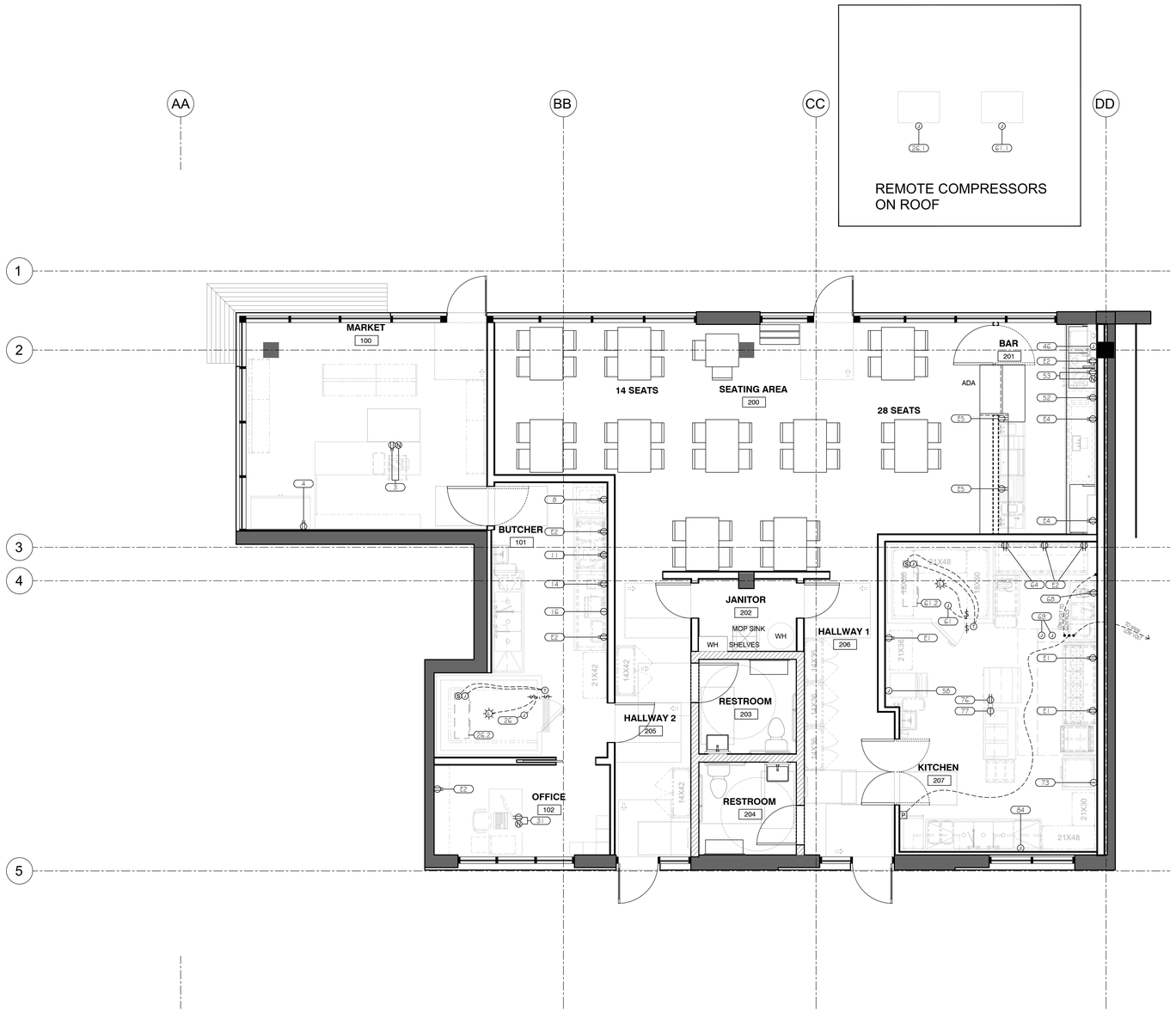
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1 K103 **LEVEL 01 - FOODSERVICE ELECTRICAL PLAN**

1/4" = 1'-0"

N

0 2' 4' 8'

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ELECTRICAL SCHEDULE

ITEM NO	QTY	DESCRIPTION	AMPS	KW	HP	VOLTS	PHASE	DIRECT PLUG	NEMA	ELECTRICAL AFF (IN)	ELEC REMARKS
3	1	POS	15.0			120	1	X	5-15P	18	MOUNT IN CABINET BY OWNER/ VERIFY REQUIREMENTS AND NETWORKING
4	1	DISPLAY CASE, REFRIGERATED	8.5	1.0	1/2	120	1	X	5-15P	46	
8	1	MEAT SAW		2.2		120	1			46	BY OWNER / VERIFY REQUIREMENTS
11	1	MEAT GRINDER		1.1	1.5	120	1			46	BY OWNER / VERIFY REQUIREMENTS
14	1	MEAT CUTTER		.85		120	1			46	BY OWNER / VERIFY REQUIREMENTS
16	1	SCALE				100/240	1			46	BY OWNER / VERIFY REQUIREMENTS
26	1	WALK-IN MEAT COOLER	15.0			120	1	X		CEILING	CIRCUIT SIZE FOR (1) LED LIGHT
26.1	1	REMOTE COOLER COMPRESSOR	*		3/4	208-230	1	X			*MCA=11.9 MOP=15.0. ON ROOF.
26.2	1	COOLER EVAPORATOR COIL	*			208-230		X		CEILING	*MCA=1.3 MOP=15.0
31	LOT	OFFICE FURNITURE & EQUIPMENT	15.0			120	1	X	5-15P	12	BY OWNER / VERIFY REQUIREMENTS
46	1	COFFEE MAKER, AIRPOT, AUTOMATIC	26.0	6.1		120/240	1	X		46	
52	1	BACK BAR COOLER	6.3		1/3	120	1	X	5-15P	18	
53	1	POS, BACK BAR	15.0			120	1			18	BY OWNER / VERIFY REQUIREMENTS.
58	1	ICE MAKER W/ BIN	11.5		1/2	120	1	X		48	
61	1	WALK-IN COOLER	15.0			120	1	X		CEILING	CIRCUIT SIZE FOR (1) LED LIGHT
61.1	1	REMOTE COOLER COMPRESSOR	*			208-230	1	X			*MCA=11.9 MOP=15.0. ON ROOF.
61.2	1	COOLER EVAPORATOR COIL	*			208-230		X		CEILING	*MCA=1.3 MOP=15.0
64	1	COUNTER TOP MIXER		1.8		120	1	X	5-15P	46	
68	1	FOOD PROCESSOR	7.0		2	120	1	X	5-15P	46	
69	1	TYPE 1 EXHAUST HOOD ASSEMBLY	*			*					*FOR LIGHTS, CONTROL SCREEN AND FIRE PROTECTION SYSTEM, SEE HOOD PLANS
			*			*					*FOR SHUNT TRIP BREAKERS, SEE ELECTRICAL ENGINEER'S PLANS
73	1	BREAD OVEN, ELECTRIC	24.6	5.1		208	1		6-30P	46	
76	1	REFRIGERATOR, SANDWICH/SALAD PREP	2.5		1/5	120	1	X	5-15P	18	RECEPTACLE ON POWER POLE
77	1	HOT FOOD TABLE	8.7	1.8		208	1	X	6-15P	12	RECEPTACLE ON POWER POLE
84	1	WAREWASHER, UNDERCOUNTER, HIGH TEMP	24.0			208	1	X		8	

ADDITIONAL ITEMS - SEE PLAN FOR LOCATIONS

E1	LOT	CONVENIENCE RECEPTACLE	10.0			120	1	X	5-15P	18	
E2	LOT	CONVENIENCE RECEPTACLE	10.0			120	1	X	5-15P	46	
E3	LOT	CONVENIENCE RECEPTACLE	10.0			120	1	X	5-15P	CEILING	RETRACTABLE CORD
E4	LOT	CONVENIENCE RECEPTACLE	10.0			120	1	X	5-15P	44	MOUNT HORIZONTALLY
E5	LOT	CONVENIENCE RECEPTACLE	10.0			120	1	X	5-15P	39	MOUNT HORIZONTALLY

ELECTRICAL NOTES

1. ALL ELECTRICAL ROUGH-IN WORK AND FINAL CONNECTIONS TO ALL FOOD SERVICE AND RELATED EQUIPMENT AS SHOWN ON THE FOODSERVICE EQUIPMENT PLANS TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR PER NATIONAL AND LOCAL CODES.

2. ALL ELECTRICAL MATERIALS INCLUDING WIRING, FLEX, CONDUIT, SWITCHES, DISCONNECTS, MAGNETIC STARTERS, CONTACTORS, THERMAL OVERLOAD PROTECTORS, SHUNT TRIP BREAKERS, TRANSFORMERS, ELECTRICAL PANELS, ETC., SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THESE PLANS.

3. ELECTRICAL CONTRACTOR SHALL SUPPLY KITCHEN EQUIPMENT CONTRACTOR WITH ELECTRICAL PANEL(S) SIZE AND LOCATION ALONG WITH AVAILABLE VOLTAGE AND PHASE.

4. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SHUNT TRIP BREAKERS, CONTACTORS, OR RELAYS FOR ALL ELECTRICAL COOKING EQUIPMENT PROTECTED BY FIRE CONTROL SYSTEM PER CODE.

5. EXHAUST AND SUPPLY AIR EQUIPMENT FOR THE KITCHEN HOODS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS AS SPECIFIED IN THE MECHANICAL ENGINEERS DOCUMENTS. ELECTRICIAN SHALL PROVIDE POWER AND INSTALL ALL WIRING FROM HOOD CONTROLS TO ROOF EQUIPMENT AS WELL AS TO HOOD LIGHTS, WALL SWITCHES (IF SEPARATE FROM HOOD UTILITY CABINET). ROOM TEMP SENSORS AND MISCELLANEOUS COMPONENTS.

6. ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL COMPONENTS FOR WALK-IN REFRIGERATORS INCLUDING, BUT NOT LIMITED TO: LIGHTS, DOOR VENTS, TIME CLOCK, TEMPERATURE CONTROL DEVICE AND INTERCONNECTIONS BETWEEN REMOTE COMPRESSORS AND INTERIOR MOUNTED EVAPORATOR COILS. ELECTRICIAN SHALL PROVIDE DISCONNECTS, MAGNETIC STARTERS AND THERMO-OVERLOAD PROTECTION FOR COMPRESSORS.

7. ELECTRICAL CONTRACTOR SHALL WRAP FREEZER COIL CONDENSATE WASTE LINE WITH ELECTRICAL HEAT TAPE AND INSULATE TO PREVENT FREEZING.

8. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION OF REMOTE COMPRESSORS SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR AND PROVIDE POWER AND WIRING TO ALL COMPONENTS.

9. ELECTRICAL CONTRACTOR SHALL VERIFY REQUIREMENTS OF CASH REGISTERS, PRINTERS, COMPUTERS AND SOUND SYSTEM, SIGNAGE AND VIDEO UNITS INCLUDING CONDUIT RUNS, DEDICATED AND ISOLATED OUTLET REQUIREMENTS.

10. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS INCLUDING OFFICE, MENU BOARD, LIGHTING, TELEPHONE, AND CONVENIENCE OUTLETS, ETC.

11. REFER TO KITCHEN EQUIPMENT CONTRACTOR'S SUBMITTAL DRAWINGS FOR DIMENSIONED LOCATIONS OF ELECTRICAL ROUGH-INS.

12. ALL WIRING SHALL RUN CONCEALED IN WALLS. WHERE WIRING IS STUBBED UP FROM THE FLOOR FOR ISLAND COUNTERS, WIRING SHALL RUN CONCEALED IN CABINET OR IN STAINLESS SUPPORT TUBING TO RECEPTACLES. ALL PEDESTAL RECEPTACLES ON STAINLESS STEEL COUNTERS SHALL BE ENCLOSED IN ALUMINUM HOUSINGS SUCH AS COMPONENT HARDWARE #RSS-1010 OR EQUAL. RECEPTACLES UNDER TABLE TOP SHALL HAVE STAINLESS STEEL FACE PLATE.

13. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL RECESSED OCTAGONAL J-BOX WITH CONCEALED CONDUIT IN WALL FOR FIRE PROTECTION SYSTEM REMOTE PULL STATION. PULL STATION SHALL BE LOCATED AS SHOWN ON ELECTRICAL PLAN.

SYMBOL LEGEND

- DUPLEX OUTLET (DCO)
- SINGLE OUTLET
- DROP OUTLET FROM CEILING
- FLOOR OUTLET
- LIGHT FIXTURE
- FLUOR. FIXTURE
- JUNCTION BOX
- ELECTRICAL STUB
- HEAT TAPE
- SWITCH
- MOTOR
- THERMOSTAT
- SOLENOID
- POS NETWORK CONNECTION
- FIRE SYSTEM REMOTE PULL STATION UP 46". RUN CONDUIT CONCEALED ABOVE CEILING & IN WALL.

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REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 01 FOODSERVICE ELECTRICAL PLAN

DRAWN BY: SK/JB
CHECKED BY: JB
DATE CREATED: 05/15/2026

SHEET:

K103

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MECHANICAL NOTES

1. HOOD EXHAUST AND SUPPLY DUCTS, FANS AND SUPPLY AIR UNITS ARE NOT FURNISHED AS PART OF THE KITCHEN EQUIPMENT. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL IN ACCORDANCE WITH APPLICABLE NATIONAL AND LOCAL CODES AND SHALL COORDINATE AIR VOLUME REQUIREMENTS, DUCT SIZES AND LOCATIONS WITH KITCHEN EQUIPMENT CONTRACTOR.

2. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE ENTIRE SUPPLY AIR SYSTEM AND ENSURE THAT 100% OF THE AIR PULLED FROM THE SPACE IS REPLACED. WHERE A PORTION OF SUPPLY AIR IS PROVIDED BY THE KITCHEN EQUIPMENT CONTRACTOR, THE MECHANICAL CONTRACTOR SHALL PROVIDE THE REMAINDER AS REQUIRED AND BALANCE THE COMPLETE SYSTEM.

3. THE MECHANICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS BETWEEN DUCTWORK AND HOOD DUCT COLLARS.

4. THE MECHANICAL CONTRACTOR SHALL PERFORM FINAL AIR BALANCING TO THE BUILDING.

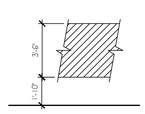
WALL BACKING NOTES

1. WALL BACKING SHALL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR AS REQUIRED TO SUPPORT WALL MOUNTED EQUIPMENT.

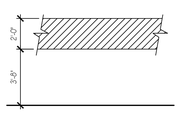
2. BACKING SHALL BE 5/8" PLYWOOD OR 16 GAUGE SHEET METAL, BASED ON WALL TYPE.

3. PLYWOOD BACKING SHALL BE INSTALLED BETWEEN OR NOTCHED IN TO STUDS TO PROVIDE A SMOOTH WALL SURFACE.

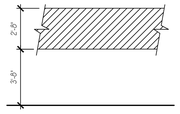
4. REFER TO KITCHEN EQUIPMENT CONTARCTOR'S DIMENSIONED PLANS FOR EXACT LOCATIONS.



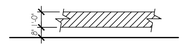
A Hand Sink /Towel Disp.
Scale: 1/4" = 1'-0"



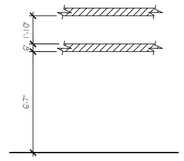
B Wall Shelving & Pre-Rinse
Scale: 1/4" = 1'-0"



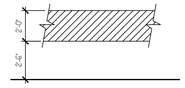
C Pot Rack & Pre-Rinse
Scale: 1/4" = 1'-0"



D Equip. Restraining Cables
Scale: 1/4" = 1'-0"



E Wall Mount Hoods
Scale: 1/4" = 1'-0"



F Water Filter
Scale: 1/4" = 1'-0"

1 / K104 **LEVEL 01 - FOODSERVICE SPECIAL CONDITIONS PLAN**
1/4" = 1'-0"

N

0 2" 4" 8"

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FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL
JILL BIERMAN
FCSI 9507987
PROFESSIONAL MEMBER

REVISIONS:

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SHEET TITLE:

LEVEL 01 FOODSERVICE SPECIAL CONDITIONS

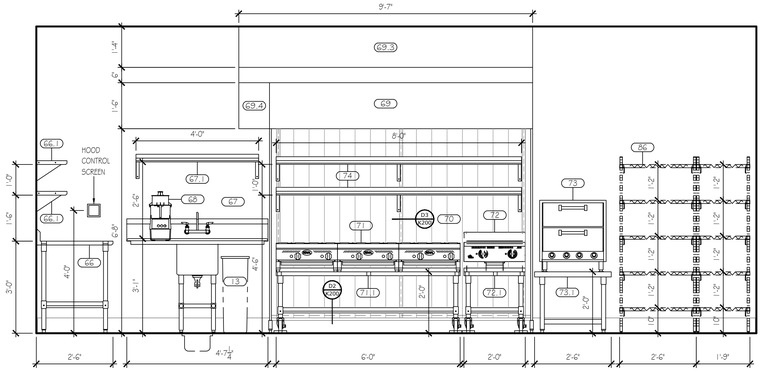
DRAWN BY:	SK/JB
CHECKED BY:	JB
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K104

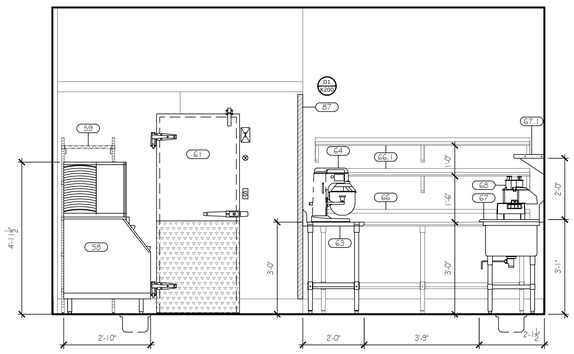
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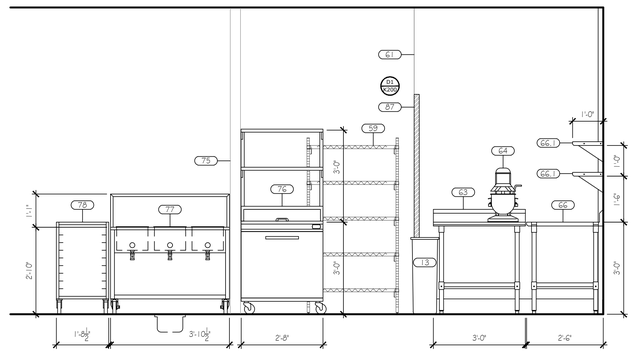
1 K200 Elevation - Walk-In Cooler & Freezer

Scale: 1/2"=1'-0"



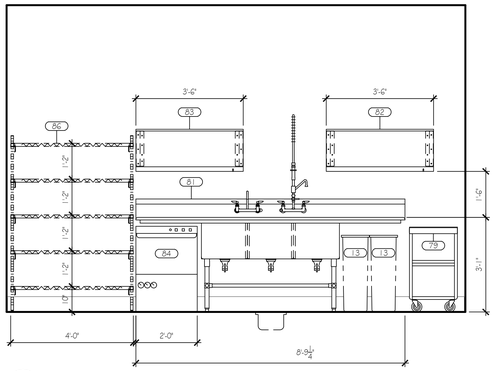
2 K200 Elevation - Walk-In Cooler & Prep

Scale: 1/2"=1'-0"



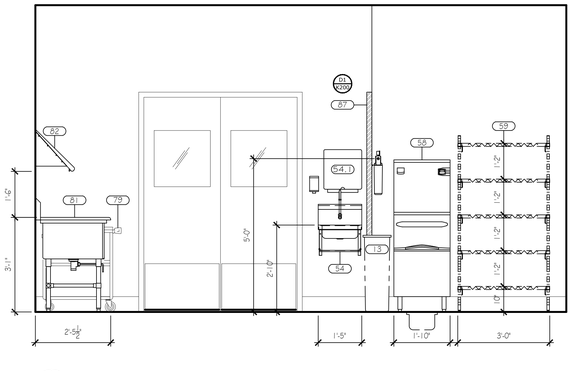
3 K200 Elevation - Plating, Staging & Prep

Scale: 1/2"=1'-0"



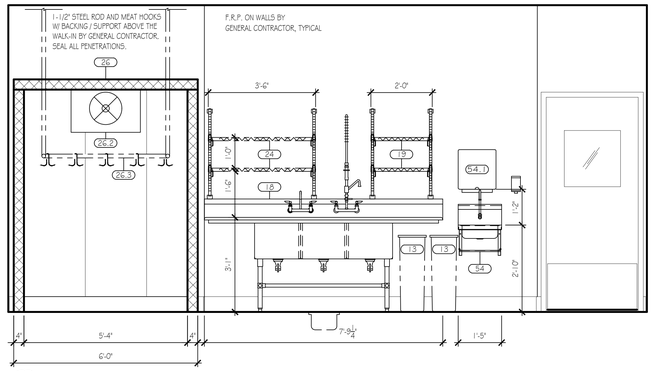
4 K200 Elevation - 3 Compartment Sink, Dish Washer & Storage Shelving

Scale: 1/2"=1'-0"



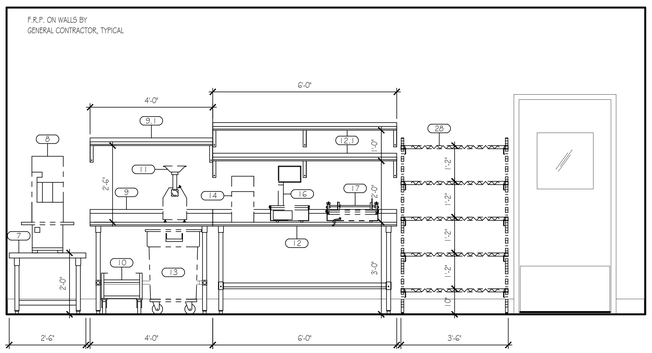
5 K200 Elevation - Hand Sink, Ice Maker & Storage Shelving

Scale: 1/2"=1'-0"



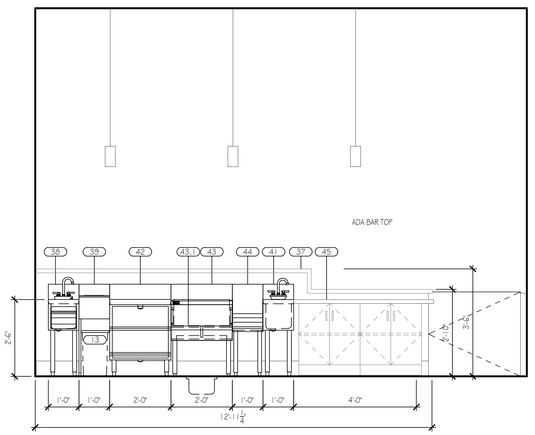
6 K200 Elevation - Walk-In Cooler, 3 Compartment Prep Sink, Hand Sink

Scale: 1/2"=1'-0"



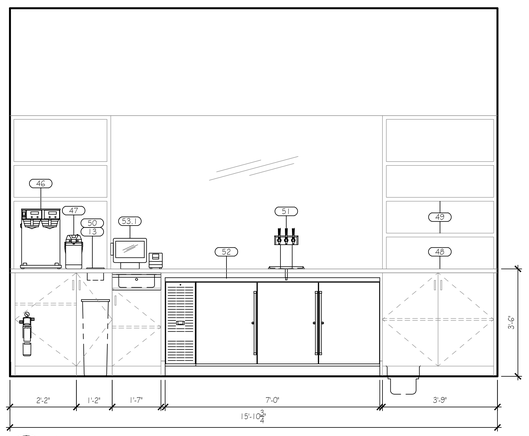
7 K200 Elevation - Butcher Station

Scale: 1/2"=1'-0"



8 K200 Elevation - Front Bar

Scale: 1/2"=1'-0"



8 K200 Elevation - Back Bar

Scale: 1/2"=1'-0"

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LEVEL 01 FOODSERVICE ELEVATIONS

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CHECKED BY: JB
DATE CREATED: 05/15/2026

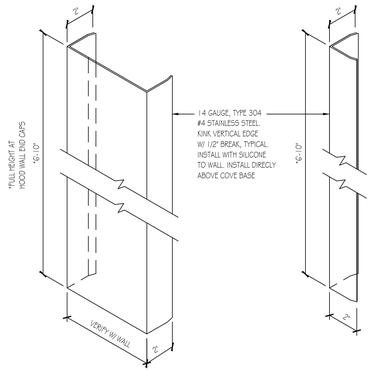
SHEET:

K200

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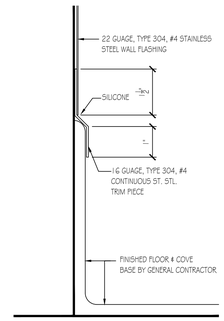
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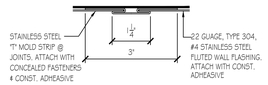
D1 K201 **Isometric**

Corner Guards/Wall Caps Scale: 3"=1'-0"



D2 K201 **Detail**

Wall Flashing At Cove Base Scale: 6"=1'-0"



D3 K201 **Detail**

Wall Flashing Vertical Joint Trim Scale: 6"=1'-0"

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LEVEL 01 FOODSERVICE ELEVATION DETAILS

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HOOD INFORMATION – JOB#8423180

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP			END TO END	ROW
1	KITCHEN	5424 ND-2-PSP-F	CAPTIVEAIRE	8' 7"	600 DEG	I	HEAVY	225	1931	12"	16"	4"		1931	1448	-0.621"	1750	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)					FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
												FIRE SYSTEM		ELECTRICAL	SWITCHES	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	
1	KITCHEN	CAPTRATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	3	RECESSED ROUND	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	954 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KITCHEN	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 115.00" LONG 430 SS VERTICAL.
		INSULATION FOR BACK OF HOOD.
		RISER SENSOR INSTALL 6IN PLEN.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

CLEARANCE TO COMBUSTIBLES

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

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

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1	KITCHEN	Front	115"	18"	6"	MUA	10"	28"		583	0.158"
						MUA	10"	28"		583	0.158"
						MUA	10"	28"		583	0.158"

EXHAUST FAN INFORMATION – JOB#8423180

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	KEX-1: KITCHEN	1	DU85HFA	CAPTIVEAIRE	1931	0.875	1414	TEAO-ECM	1.000	0.6240	1	208	6.9	611 FPM	94	13.8

MUA FAN INFORMATION – JOB#8423180

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	MUA-1: KITCHEN	1	A1-D.250-15D	15MF-1-MOD	A1-D.250	1000	1750	0.500	1908	TEFC,PREMIUM	1.500	1.0730	3	208	4.5	5.7A	15A	610	17.8

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	MUA-1: KITCHEN	128955	118639	65°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEX-1: KITCHEN	66 LBS	CURB	23.000"W X 23.000"L X 26.000"H VENTED HINGED 16 GAUGE.

FAN SOUND DATA

FAN UNIT NO	TAG	MOTOR	SOUND DATA			OCTAVE BAND SOUND DATA								
			LWA	SONES @ 5 FT	DBA @ 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ
1	KEX-1: KITCHEN	EXHAUST	77.3	13.7579655255319	65.8	5	78.4	78.7	81.4	73.4	70	68.1	64.4	58
2	MUA-1: KITCHEN	SUPPLY	81	17.78279410038923	69.5	5	76.6	83.8	81.1	78.2	74	72.4	71.8	67.6

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEX-1: KITCHEN	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR85HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCO), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2	MUA-1: KITCHEN	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	MODULAR UNIT INTAKE FIRESTAT SET TO 135°F
		1	INSULATION OPTION FOR VBANK FILTER SECTION
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	DF1 INDOOR HANGING OPTION - INCLUDES 2 HSA125 HANGING SPRING ISOLATORS PER UNI-STRUT
		1	SINGLE ELECTRICAL CABINET LED LIGHTS USED ON MODULAR MUA UNITS
		1	TOTAL CFM MONITORING FOR MUA
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	2 YEAR PARTS WARRANTY
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

ELECTRICAL PACKAGE – JOB#8423180

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1	KITCHEN	DCV-1111	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	KEX-1: KITCHEN	EXHAUST	1	1.000	208	6.9
				HOOD # 1	1 FAN		MUA-1: KITCHEN	SUPPLY	3	1.500	208	4.5

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.

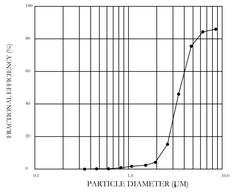
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

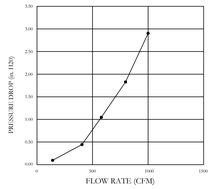
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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.

FOR QUESTIONS, CALL
SEAN ELIAS: TECHNICAL SALES
PHONE: (503) 567-1190
FAX: (919) 227-5983
EMAIL: sean.elias@captiveaire.com

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH
UL 710 AND NFPA 96
AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED

ETL LISTED FILE# 3054804-001

REVISIONS

	DESCRIPTION	DATE:
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△		
△		
△		

CAPTIVE-AIRE

Oregon Office
2702 NE 114th Ave, Suite 2, Vancouver, WA, 98684 PHONE: (360) 828 - 5418 FAX: 9192275983 EMAIL: regO@captiveaire.com
www.captiveaire.com

Ethiopian Restaurant at Nick Fish Building
10560 Northeast Halsey Street,
Portland, OR, 97220

DATE: 12/23/2025

DWG.#: 8423180

DRAWN BY: Sean Elias

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

MASTER DRAWING

SHEET NO. 1

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LEVEL 01 FOODSERVICE HOOD NOTES

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CHECKED BY: JB
DATE CREATED: 05/15/2026

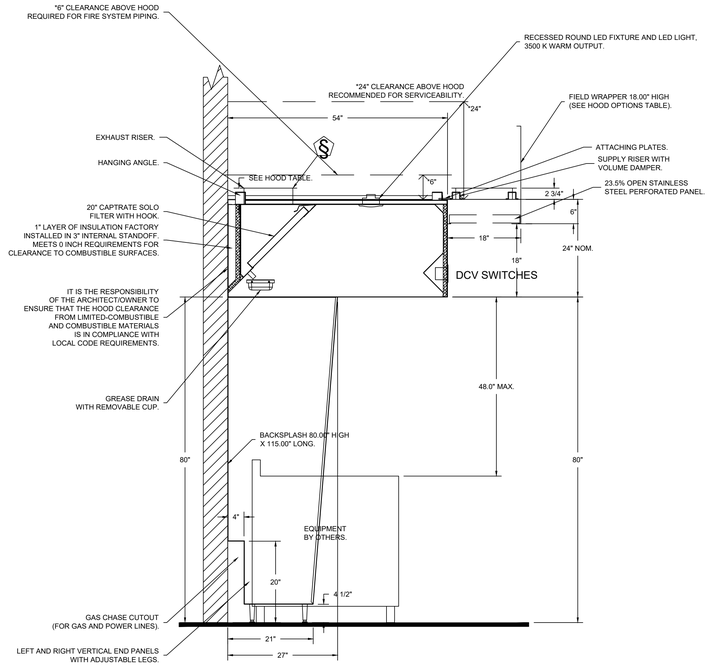
SHEET:

K301

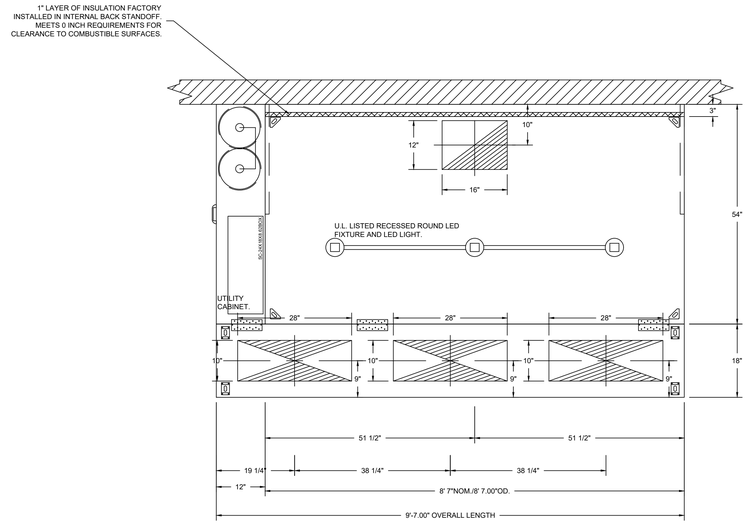
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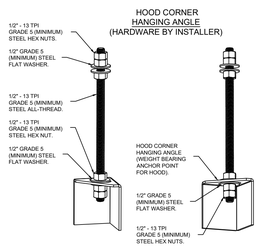
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SECTION VIEW – MODEL 5424ND-2-PSP-F
HOOD – #1 (KITCHEN)

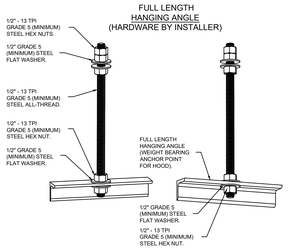


PLAN VIEW – HOOD #1 (KITCHEN)
8' 7.00" LONG 5424ND-2-PSP-F



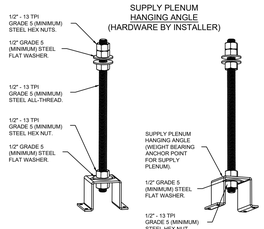
ASSEMBLY INSTRUCTIONS

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.



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.



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REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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www.captiveaire.com

Ethiopian Restaurant at Nick Fish Building
10560 Northeast Halsey Street,
Portland, OR, 97220

DATE: 12/23/2025

DWG.#: 8423180

DRAWN BY: Sean Elias

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

MASTER DRAWING

SHEET NO. 2

SALAZAR ARCHITECT
2222 NE OREGON ST.
SUITE 101
PORTLAND, OR 97232
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WWW.SALAZARCH.COM

PROJECT NUMBER: 2429a

NICK FISH TI - MERKATO

10560 NE HALSEY ST, PORTLAND, OR 97220

CLIENT:

PROSPER PORTLAND

220 NW 2ND AVE, SUITE 200, PORTLAND, OR 97209

PROSPER PORTLAND

CONSULTANT:

JBK CONSULTING AND DESIGN, INC.
7325 NE Imbrie Dr. #109
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www.jbkdesign.net
A WBE Company

PHASE:

PERMIT SET

JILL BIERMAN FCSI 9507987 FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL PROFESSIONAL MEMBER

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 01 FOODSERVICE HOOD PLANS

DRAWN BY:	SE
CHECKED BY:	JB
DATE CREATED:	05/15/2026

SHEET:

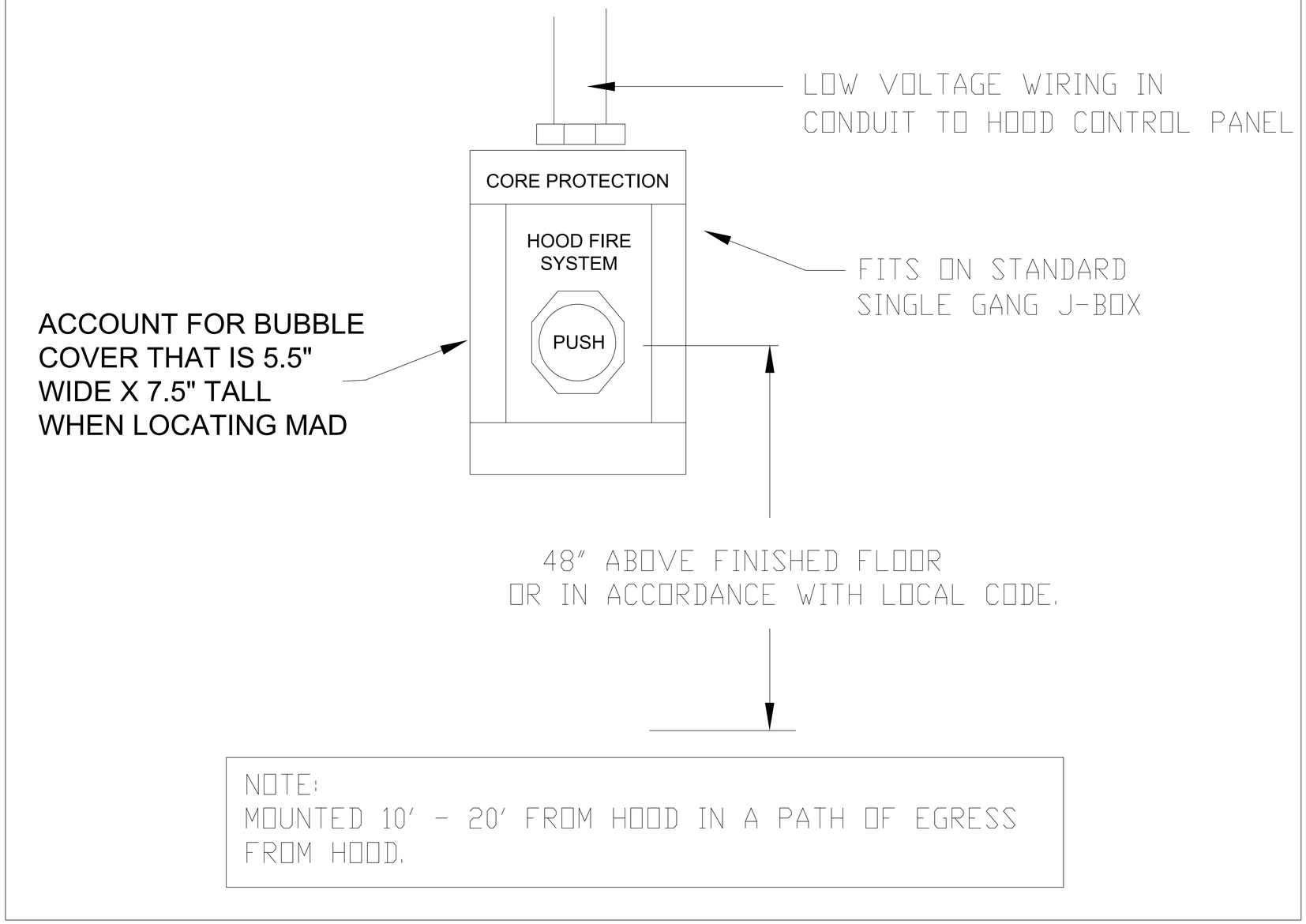
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TANK/CORE MANUAL ACTIVATION DEVICE (MAD) DETAIL



NOTE:
MOUNTED 10' - 20' FROM HOOD IN A PATH OF EGRESS FROM HOOD.

SALAZAR ARCHITECT

2222 NE OREGON ST.
SUITE 101
PORTLAND, OR 97232

PHONE: 503.702.2575
WWW.SALAZARCH.COM

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	DESCRIPTION	DATE
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Ethiopian Restaurant at Nick Fish Building
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Portland, OR, 97220

DATE: 12/23/2025

DWG.#: 8423180

DRAWN BY: Sean Elias

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

MASTER DRAWING

SHEET NO. 3

PROJECT NUMBER: 2429a

NICK FISH TI - MERKATO

10560 NE HALSEY ST, PORTLAND, OR 97220

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JILL BIERMAN FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL FCSI 9507987 PROFESSIONAL MEMBER

REVISIONS:

△	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 01 FOODSERVICE HOOD FIRE PROTECTION

DRAWN BY:	SE
CHECKED BY:	JB
DATE CREATED:	05/15/2026

SHEET:

K303

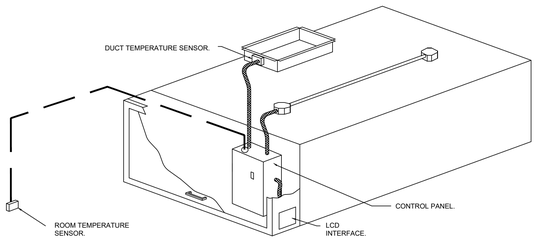
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DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- 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 PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.

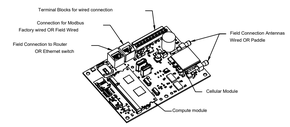


TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- MANUAL:THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE:A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.



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
Prep Time Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

EC 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

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

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www.captivaire.com

Ethiopian Restaurant at Nick Fish Building
10560 Northeast Halsey Street,
Portland, OR, 97220

DATE: 12/23/2025

DWG.#: 8423180

DRAWN BY: Sean Elias

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

MASTER DRAWING

SHEET NO.

SALAZAR ARCHITECT
2222 NE OREGON ST.
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PROJECT NUMBER: 2429a

NICK FISH TI - MERKATO

10560 NE HALSEY ST, PORTLAND, OR 97220

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JILL BIERMAN FCSI 9507987 FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL PROFESSIONAL MEMBER

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 01 FOODSERVICE HOOD CONTROLS

DRAWN BY: SE
CHECKED BY: JB
DATE CREATED: 05/15/2026

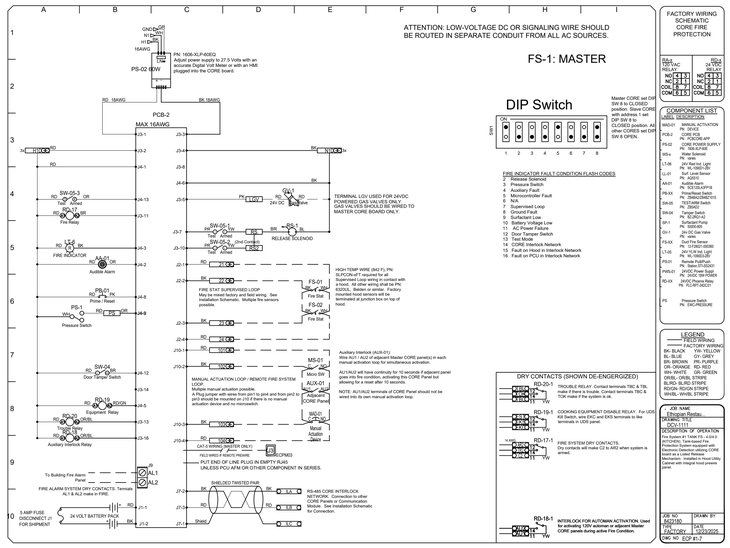
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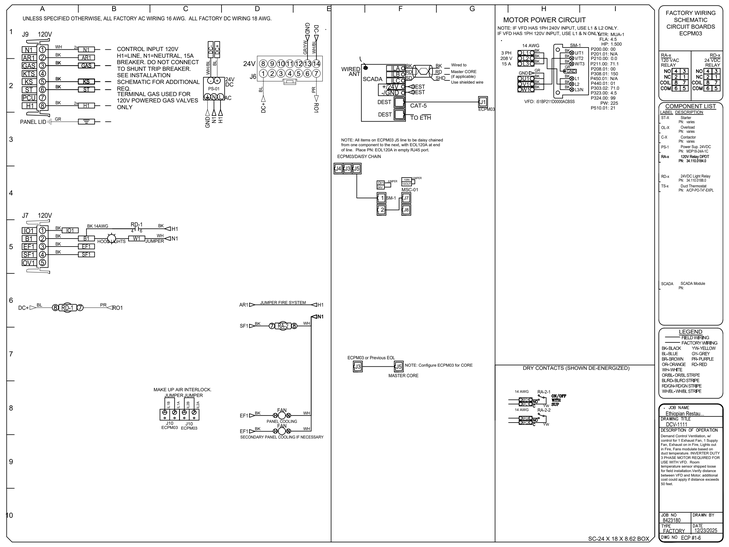
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DATE: 12/23/2025

DWG.#: 8423180

DRAWN BY: Sean Elias

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

MASTER DRAWING

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REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 01 FOODSERVICE HOOD WIRING DIAGRAMS

DRAWN BY:	SE
CHECKED BY:	JB
DATE CREATED:	05/15/2026

SHEET:

K305

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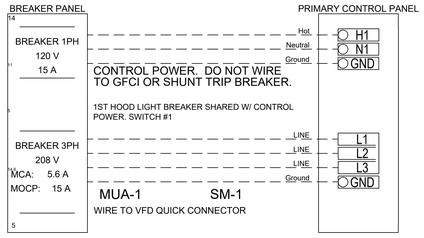
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JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
8423180	DCV-1111		INSTALL	Demand Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.
	JOB NAME: Ethiopian Restaurant at Nick ...	DATE: 12/23/2025	DWG NO: ECP #1-1	

BREAKER PANEL TO PRIMARY CONTROL PANEL

Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



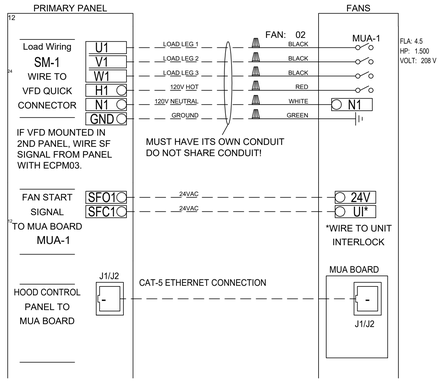
BREAKER PANEL TO FANS

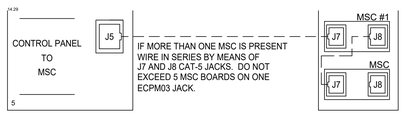
Responsibility: Electrician



CONTROL PANEL TO FANS

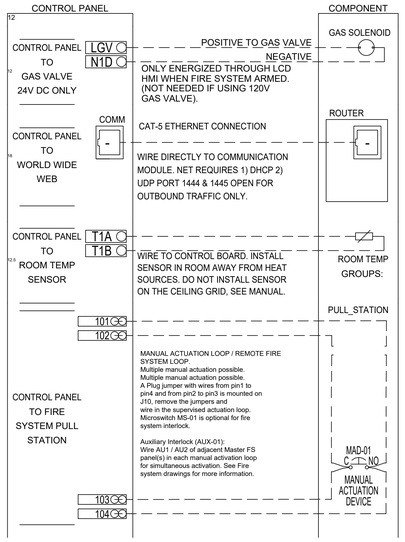
Responsibility: Electrician

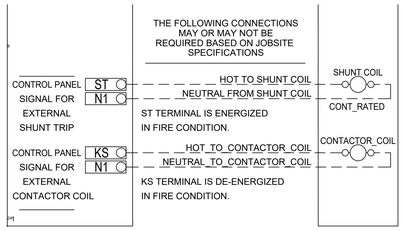




CONTROL PANEL TO ACCESSORY ITEMS

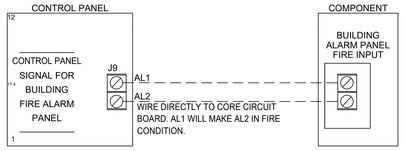
Responsibility: Electrician





CONTROL PANEL TO FIRE SYSTEM

Responsibility: ALARM CONTRACTOR



REVISIONS	
DESCRIPTION	DATE

Captivaire
Oregon Office
2702 NE 114th Ave, Suite 2, Vancouver, WA, 98684 PHONE: (360) 828 - 5418 FAX: 9192275983 EMAIL: regi90@captivaire.com
www.captivaire.com

Ethiopian Restaurant at Nick Fish Building
10560 Northeast Halsey Street,
Portland, OR, 97220

DATE: 12/23/2025

DWG.#: 8423180

DRAWN BY: Sean Elias

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

MASTER DRAWING

SHEET NO.

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PROJECT NUMBER: 2429a

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A WBE Company

PHASE:

PERMIT SET

JILL BIERMAN FOODSERVICE CONSULTANTS SOCIETY INTERNATIONAL FCSI 9507987 PROFESSIONAL MEMBER

REVISIONS:

#	DATE	DESCRIPTION

SHEET TITLE:

LEVEL 01 FOODSERVICE HOOD DCV CONTROLS

DRAWN BY:	SE
CHECKED BY:	JB
DATE CREATED:	05/15/2026

SHEET:

K306

All drawings and written materials appearing herein constitute the original and unpublished work of the designer and the same may not be duplicated, used, or disclosed without the written consent of the designer.

Salazar Architect, Inc.

11/17/2025 12:33:54 PM
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