

# RIGHTEOUS KITCHEN

## 390 E. ST CHARLES ROAD LOMBARD, IL 60148

### CONSTRUCTION NOTES

- CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND ALL CONDITIONS SHOWN ON DRAWINGS AT THE JOB SITE AND SHALL NOTIFY OWNER OF ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING WITH THIS PROJECT.
- ALL WORK THAT NECESSitates THE SHUTTING DOWN OF A BUILDING SYSTEM FOR THE TIE-IN OR ALTERATION PURPOSES SHALL BE COORDINATED WITH THE OWNER AND/OR GENERAL CONTRACTOR AS PER THEIR DIRECTION.

### ACCESSIBILITY NOTES

- ALL FIXTURES AND ACCESSORIES SHALL BE MOUNTED IN ACCORDANCE WITH ALL CITY/VILLAGE, A.D.A., ILLINOIS HANDICAP REGULATIONS AND ANS, WHICHEVER IS MOST STRINGENT.
- ALL THRESHOLDS MUST COMPLY WITH A.D.A., ILLINOIS HANDICAP REGULATIONS AND ANS, WHICHEVER IS MOST STRINGENT.
- PROJECTING ACCESSORIES MUST BE LOCATED SO THEY WILL NOT INTERFERE WITH THE USE OF GRAB BARS AND WILL KEEP THE WHEELCHAIR AREA FREE.
- EACH HANDICAP WASHROOM SHALL HAVE A 5'-0" DIAMETER CLEAR TURNING AREA.
- ACCESSIBLE PARKING SHALL BE PROVIDED FOR THE TENANT SPACE WITH A MINIMUM 5250 FINE FOR PARKING IN THE ACCESSIBLE PARKING SPACE.

### GENERAL NOTES

- THE GENERAL CONTRACTOR AND SUB-CONTRACTORS, PRIOR TO SUBMITTING THEIR BID(S), SHALL FIELD SURVEY THE SITE OF PROPOSED WORK TO DETERMINE AND VERIFY THE EXTENT AND NATURE OF THIS PROJECT.
- IF AT ANY TIME, PRIOR TO AND DURING CONSTRUCTION, A DISCREPANCY, OMISSION, AND/OR CONFLICT IS DISCOVERED, NOTIFY OWNER & ARCHITECT FOR CLARIFICATION AND/OR RESOLUTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND ACQUISITION OF ALL NECESSARY BUILDING PERMITS. PERMITS ARE TO BE POSTED ON JOB SITE.
- DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE PLANS, ELEVATIONS AND SECTIONS.
- CONTRACTOR SHALL NOTIFY THE OWNER AND/OR BUILDING OWNER OF ANY UNFORESEEN JOB CONDITIONS WHICH MAY AFFECT PROJECT COST. EXTRA WORK AND/OR EXTRA COSTS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION OF SUCH WORK.
- CONTRACTOR(S) SHALL NOT REMOVE ANY MATERIALS, (SIDELIGHTS, DOOR ASSEMBLIES, LIGHT FIXTURES, ETC.) FROM AREAS NOT IN CONTRACT (N.I.C.) UNLESS ILLUSTRATED AS DEMOLITION AND NOTED AS RE-LOCATED IN THESE DOCUMENTS OR CONTRACTOR HAS WRITTEN APPROVAL FROM BUILDING OWNER/MANAGEMENT TO DO SO.
- ALL CONSTRUCTION SHALL CONFORM TO ALL STATE AND LOCAL BUILDING CODES FOR WORK OF THIS TYPE.
- WHERE NEW WORK CONNECTS WITH EXISTING, ALL REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT, WHETHER OR NOT SHOWN OR INDICATED.
- THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER/MANAGEMENT FOR REGULATIONS INCLUDING BUT NOT NECESSARILY LIMITED TO: ELEVATOR USE, RUBBISH REMOVAL, PROTECTION OF BASE BUILDING CONSTRUCTION, AND ANY WORK WHICH WILL AFFECT OTHER TENANTS OR OTHER PARTS OF THE BUILDING.

### GENERAL NOTES

- THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFE GUARDS, BARRIERS, TEMPORARY POWER, LIGHTING, FIRE PROTECTION, ETC., AS REQUIRED DURING DEMOLITION/CONSTRUCTION.
- ALL CONTRACTORS ARE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH ALL OTHER TRADES. WORK SHALL BE PROPERLY SEQUENCED TO COINCIDE WITH THE PROJECT CONSTRUCTION SCHEDULE TO AVOID DELAY OF THE PROJECT COMPLETION OR THE WORK OF THE OTHERS.
- THE GENERAL CONTRACTOR SHALL PROTECT AREA AND NEW OR EXISTING MATERIALS AND FINISHES FROM DAMAGE WHICH MAY OCCUR FROM CONSTRUCTION, DUST, WATER, ETC. DAMAGE TO EXISTING MATERIALS, FINISHES, STRUCTURE, AND EQUIPMENT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE TENANT AND THE BUILDING OWNER/MANAGEMENT AT THE EXPENSE OF THE GENERAL CONTRACTOR.
- ALL MATERIALS, METHODS OF INSTALLATION AND FINISHING OF CONSTRUCTION SYSTEMS (PARTITIONS, CEILINGS, DOORS, FRAMES, FLOORS, ETC.) SHALL CONFORM TO THE MANUFACTURERS' SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR THE EXPECTED USE.
- THE GENERAL CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS OF ALL SUBCONTRACTORS AND TRADES ON A DAILY BASIS, AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DIRT, DEBRIS OR DUST FROM AFFECTING ANY FINISHED AREA, WHETHER WITHIN OR OUTSIDE THE JOB SITE.

### ELECTRIC & PLUMBING

- ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL POWER IN AREAS OF WORK PRIOR TO COMMENCEMENT OF DEMOLITION AND SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR DEMOLITION CONTRACTOR.
- ALL ELECTRICAL ITEMS BEING REMOVED SHALL BE DISCONNECTED AT THE CIRCUIT PANEL.
- ALL PLUMBING TO BE REMOVED SHALL BE CAPPED AT SOURCE.

### HEALTH DEPARTMENT

- EQUIPMENT NOTES:**
- ALL FOOD SERVICE EQUIPMENT IS TO BE COMMERCIAL AND MEET THE STANDARDS REGARDING DESIGN, MATERIALS, AND WORKMANSHIP OF THE NATIONAL SANITATION FOUNDATION INTERNATIONAL (NSF), AN NSF OR OTHER RECOGNIZED TESTING AGENCY EQUIPMENT MUST HAVE NSF SEAL. UNMARKED EQUIPMENT MAY NOT MEET THE STANDARDS, AND REQUIRE REPLACEMENT.
  - INSTALL TABLE-MOUNTED EQUIPMENT ON 4" LEGS, OR SEAL THE EQUIPMENT TO THE TABLE USING SILICONE CAULK, UNLESS IT IS PORTABLE. PORTABLE EQUIPMENT SHALL WEIGH LESS THAN 75 LBS, AND CONTAIN NO RIGID UTILITY CONNECTIONS. TABLE MOUNTED EQUIPMENT PIECES SHALL BE AT LEAST 6" APART FOR CLEANING ACCESS.
  - FLOOR MOUNTED EQUIPMENT SHALL BE INSTALLED (IF POSSIBLE) ON CASTERS. PROVIDE CASTERS FOR GRIDDLES, BROILERS, REACH IN REFRIGERATION COOLERS, BEVERAGE COOLER, RANGES, AND ALL COOKLINE EQUIPMENT. CASTER SHALL BE OF COATED STEEL, AND HAVE COMMERCIAL GRADE UTILITY CONNECTIONS THAT ARE SMOOTH AND FLEXIBLE WITH QUICK DISCONNECTS. CASTERS MUST MEET NSF STANDARDS. CONNECTIONS MUST BE LONG ENOUGH TO MOVE THE EQUIPMENT SO THAT THE AREA BEHIND EQUIPMENT CAN BE CLEANED.
  - INSTALL EQUIPMENT, OTHER THAN PORTABLE EQUIPMENT, WITH SUFFICIENT SPACE BETWEEN ADJACENT EQUIPMENT, FLOORS, WALLS, CABINETS, AND CEILINGS TO FACILITATE PROPER CLEANING. FLOOR-MOUNTED EQUIPMENT INSTALLED ON LEGS MUST HAVE A MINIMUM FLOOR CLEARANCE OF 6" CLEARANCE SHALL BE MEASURED FROM THE LOWEST OBSTRUCTION UNDER THE PIECE OF EQUIPMENT.

### FIRE DEPARTMENT

- A KNOX BOX SHALL BE ISSUED AND PLACED WITHIN AN ACCESSIBLE LOCATION FOR THE USE OF THE LOCAL FIRE DEPARTMENT. IFC-906.1
- PROVIDE ADDRESS PLAQUARDS READILY VISIBLE WITH CONTRASTING COLORS. NUMBERS SHALL BE MIN. 4" TALL AND MIN. STROKE WIDTH OF 1/2". LOCATE AT THE FRONT AND REAR ENTRANCES. IFC-905.1
- PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH NFPA#10 AND IFC SEC. 906. INSTALL PRIOR TO FINAL INSPECTION
- EXIT SIGNS SHALL BE LOCATED AT THE FRONT EXTERIOR EXIT DOORS AS PER IBC 1011.5.1 AS WELL AS AN OCCUPANCY PLAQUARD
- ALL ELECTRIC AND GAS APPLIANCES ARE TO BE DE-ACTIVATED WITH THE ACTIVATION OF THE FIRE SUPPRESSION SYSTEM.

### HEALTH DEPARTMENT

- THE EQUIPMENT'S DIMENSIONS DETERMINE THE SPACE NEEDED FOR CLEANING ACCESS.
  - A. MAINTAIN 8" OF SPACING WHEN THE AREA TO BE CLEANED IS LESS THAN 4' LONG
  - B. MAINTAIN 18" OF SPACING WHEN THE AREA TO BE CLEANED IS 4' LONG OR GREATER.
- 100% SILICONE CAULK SHALL BE USED TO SEAL CLEANABLE TRIM AREAS INCLUDING SPACES BETWEEN NON-PORTABLE EQUIPMENT, ACCESS TO CABINET VOIDS, AROUND PIPES, AND WALL-MOUNTED EQUIPMENT. THE SILICONE BEAD MUST BE SMOOTHED AND COVERED 3/8" RADIUS.
- SEAL ALL SPACES BETWEEN FLOORING AND WALL INTERFACES THAT ARE LARGER THAN 1/32" AND SMALLER THAN 6". SEAL ALL GAPS, VOIDS AND PROTRUSIONS USING SILICONE CAULK OR TRIM THAT MEETS THE FINISH MATERIAL STANDARD.
- KEEP ALL EXPOSED UTILITY LINES TO A MINIMUM. ALL EXPOSED LINES SHALL MAINTAIN CLEARANCES OF AT LEAST 6" FROM FINISHED FLOOR, AND AT LEAST 1/2" AWAY FROM WALLS AND CEILINGS. ALL GAS COOKING EQUIPMENT TO BE INSTALLED WITH NSF/ANSI APPROVED POLYCOATED GAS LINES WITH QUICK DISCONNECT GAS LINES
- ALL SINKS FOR EMPLOYEE OR PUBLIC USE (OTHER THAN LAVATORY SINKS) SHALL BE A MAXIMUM OF 6 1/2" DEEP AND MOUNTED WITH THE TOP EDGE A MAXIMUM OF 34" ABOVE THE FLOOR.

### STORAGE AREA NOTES:

- ALL KITCHEN SHELVING MUST MEET NSF STANDARDS, SHELVES SHALL BE CONSTRUCTED OF METAL OR MATERIAL WHICH HAS BEEN FINISHED SO AS TO HAVE SMOOTH, EASILY CLEANABLE, NON-ABSORBANT SURFACES. SHELVES SUBJECT TO HEAT OR MOISTURE MUST BE OF RUST-RESISTANT METAL OR COATED.
- ALL SHELVING IN REFRIGERATORS AND FREEZERS MUST MEET NSF STANDARDS. ALL SHELVING INSTALLED IN REFRIGERATORS MUST BE RUST-RESISTANT METAL OR OTHER IMPERVIOUS MATERIAL. THE MAXIMUM HEIGHT OF A BOTTOM SHELF ABOVE THE FLOOR OF A WALK-IN COOLER AND FREEZER IS 8"

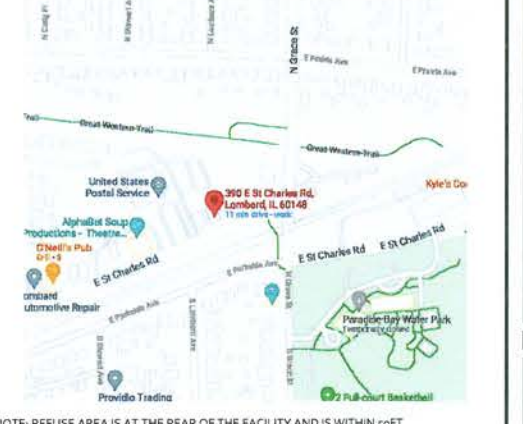
### HEALTH DEPARTMENT

- CLEAN AREA LIGHTING NOTES:**
- FOOD PREPARATION AND UTENSIL WASHING AREAS MUST BE WELL LIT. A LIGHT INTENSITY OF 100 FOOT-CANDLES MEASURED 30" ABOVE THE FLOOR IS REQUIRED.
  - LIGHTING IN WALK-IN COOLER AND FREEZERS MUST PROVIDE AT LEAST 50 FOOT-CANDLES OF LIGHT THROUGHOUT. INSTALL TWO INCANDESCENT LIGHTS OR FLUORESCENT LIGHTS WITH VAPOR-PROOF LENSES. INSTALL LIGHTING SO THAT FIXTURES WILL NOT BE OBSTRUCTED BY FOOD STORED ON SHELVES. MINIMUM 2 FIXTURES REQUIRED.
- KITCHEN & COOKLINE FINISH NOTES:**
- ALL FLOOR FINISHES IN FOOD PREP AND FOOD STORAGE AREAS SHALL BE OF DURABLE LIGHT-COLORED, WATERPROOF, GREASE-RESISTANT AND EASILY CLEANABLE MATERIAL. SEE ROOM FINISH SCHEDULE FOR TILE LOCATION. PREP FLOOR FOR TILE APPLICATION. TILE BASE TO MATCH FLOOR MATERIAL.
  - FLOOR BASE SHALL BE PROVIDED AT JUNCTURE OF THE FLOOR AND WALL OR CABINET. COVING SHALL HAVE 3/8" RADIUS.
  - ALL WALLS TO HAVE A SMOOTH AND EASILY CLEANABLE SURFACE THAT HAS A LIGHT-COLORED FINISH. PROVIDE FIBERGLASS REINFORCED PANELS (FRP) AS SHOWN ON DRAWINGS AND ROOM FINISH SCHEDULE.
  - ALL CEILING FINISHES IN FOOD PREP AND FOOD STORAGE AREAS SHALL BE SMOOTH, NON-ABSORBENT, VINYL FACED, LIGHT COLORED CEILING PANELS. PANEL MUST BE WASHABLE, EXPOSED JOINTS, STUDS, OR OTHER SUPPORT STRUCTURES ARE NOT ACCEPTABLE.
  - EXTEND FLOOR TILE UNDER WALK-IN COOLER-COOLER TO BE INSTALLED AFTER FLOOR TILE IS IN PLACE.
- REFLECTED CEILING PLAN NOTES**
- ALL CEILING HEIGHTS AND FINISHES TO REMAIN AS-IS. ONLY AREAS RENOVATED SHALL BE MEET TO CURRENT CONDITIONS. REFER TO ROOM FINISH SCHEDULE FOR EXISTING CEILING HEIGHTS AND EXISTING CEILING FINISHES.
  - COORDINATE WITH ELECTRICAL AND MECHANICAL CONTRACTORS FOR NEW LOCATIONS (IN RENOVATED AREAS ONLY) OF AIR DIFFUSERS, SPRINKLER HEADS, AND LIGHTING FIXTURE RELOCATIONS/INSTALLATIONS
  - SEE ROOM FINISH SCHEDULE FOR ALL PAINTING REQUIREMENTS. PAINT ALL NEW GYPSUM BOARD CEILINGS AND SOFFITS.

### DRAWING SHEET INDEX

DWG.No.	DRAWING TITLE
A-0.0	COVER PAGE, GENERAL NOTES, CODE INFO
A-1.0	FLOOR PLANS, DEMO PLAN, EQUIPMENT SCHEDULE DOOR SCHEDULE, ROOM FINISH SCHEDULE
A-1.1	WALL TYPES, DETAILS
M-1.0	REFLECTED CEILING PLAN, VENTILATION SCHEDULE MECHANICAL NOTES
SHEET 1	CAPTIVE AIRE HOOD DRAWINGS
SHEET 2	CAPTIVE AIRE HOOD DRAWINGS
SHEET 3	CAPTIVE AIRE HOOD DRAWINGS
SHEET 4	CAPTIVE AIRE HOOD DRAWINGS
SHEET 5	CAPTIVE AIRE HOOD DRAWINGS
SHEET 6	CAPTIVE AIRE HOOD DRAWINGS
E-1.0	ELECTRICAL POWER PLAN, LIGHTING PLAN PANEL SCHEDULE, RISER DIAGRAM, NOTES
E-1.1	ELECTRICAL LIGHTING PLAN, NOTES
P-1.0	GAS/PLUMBING PLAN, FIXTURE SCHEDULE RISER DIAGRAM, DETAILS, NOTES
P-1.1	PLUMBING DETAILS

### LOCATION MAP



### DRAFTING SYMBOLS

**TITLE DESIGNATION**

**A TITLE**  
SCALE: 1"=1'-0"

**DETAIL DESIGNATION**

**A DETAIL**  
SCALE: 1"=1'-0"

**DETAIL TITLE DESIGNATION**

**SECTION DESIGNATION**

**1**  
DRAWING NUMBER WHERE SECTION/DETAIL IS LOCATED

**SECTION DESIGNATION**

**ELEVATION DESIGNATION**

**1**  
DRAWING NUMBER WHERE ELEVATION IS LOCATED

**ELEVATION DESIGNATION**

**DETAIL DESIGNATION**

**1**  
DRAWING NUMBER WHERE DETAIL IS LOCATED

**DETAIL DESIGNATION**

**ELEMENT NAME**  
ELEV. 40'-0"

**ELEVATION MARK**

**A** LINTEL TYPE DESIGNATION

**W** WALL TYPE DESIGNATION

**A** WINDOW TYPE DESIGNATION

**100** DOOR NUMBER DESIGNATION

**1** REVISION NUMBER

**LINE TYPES**

— OBJECT LINE

- - - HIDDEN LINE (DENOTES SOMETHING LOCATED BELOW OR BEHIND)

- - - PHANTOM LINE (DENOTES SOMETHING LOCATED ABOVE OR IN FRONT)

- - - CENTER LINE

### MATERIAL DESIGNATIONS

EARTH	GYPSUM BOARD	CONCRETE MASONRY UNIT (SECT.)
GRANULAR BACKFILL	WOOD (ROUGH)	RIGID INSULATION
CONCRETE	WOOD (FINISHED)	BATT INSULATION
CERAMIC OR QUARRY TILE	PLYWOOD	GLASS
ASPHALT	STEEL	BRICK MASONRY

### BUILDING CODE ANALYSIS

CONSTRUCTION TYPE	2B	SCOPE OF WORK	INTERIOR BUILD-OUT TO EXISTING MERCANTILE UNIT
FIRE SUPPRESSION	NON-SPRINKLED	INTERIOR FINISHES	CORRIDORS-CLASS II (0-75 FLAME SPREAD)
FIRE RATING OF STRUCTURE	0 HOURS	TOTAL SQ. FT OF BUILD-OUT	OTHER SPACES- CLASS III (75-200 FLAME SPREAD)
USE GROUP	(M) MERCANTILE	OCCUPANCY CALCULATION	KITCHEN AREA = 1686 NET/200 SF PER PERSON = 8
ADJACENT USE GROUP	(M) MERCANTILE	EGRESS - MAX TRAVEL DISTANCE	BUSINESS/AUXILIARY SPACE = 750/100 = 7.5
DEMISING PARTITIONS	1 HR RATED		MAX OCCUPANCY
CODES USED	2018 International Building Code		MAX EGRESS PATH = 33'-10" (100 FT MAX ALLOWED) FROM KITCHEN TO FRONT/REAR DOOR
	2018 International Residential Code		
	2018 International Energy Conservation Code		
	2018 International Fuel Gas Code		
	2018 International Mechanical Code		
	2018 International Property Maintenance Code		
	2017 National Electric Code		
	2014 Illinois State Plumbing Code		
	2018 International Fire Code		
	NFPA 13 - 2016 Fire Sprinkler Code		
	NFPA 72 - 2016 Fire Alarm Code		
	2018 Illinois Accessibility Code		
	2010 Federal ADA Standard		
	Elevator Code as adopted by the State of Illinois		
	2015 NFPA 101 Life Safety Code		
	2009 ICC(ANSI) A117.1 Standard for Accessible & Usable Buildings & Facilities		
	Accessibility Requirements of Fair Housing Act		
	Lombard Municipal Code Chapter 150- Building Code		
	Lombard Municipal Code Chapter 155- Zoning Ordinance		
	Lombard Municipal Code Chapter 154- Subdivision & Development Ordinance		
	Lombard Municipal Code Chapter 153- Sign Ordinance		

### STATEMENT OF COMPLIANCE

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE CODES LISTED IN THE BUILDING CODE ANALYSIS.

DATE: 2-5-22

SIGNED: BRIAN GOULD

LICENSE EXPIRATION DATE: 11-30-22

DESIGN FIRM LICENSE: 184.006610

FIRM EXPIRATION DATE: 4-30-23

**BR Design & Architecture** 2021

Copyright, 2021, BR Design & Architecture These plans are protected under copyright laws of the United States and foreign countries, and are to be used only for the construction and repair and remodeling of the structure or structures defined in the contract between the Architect and the Owner. Any use of these plans to construct, remodel or repair additional structures constitutes a violation of the Architect's copyright of these plans and is prohibited.

### ISSUES AND REVISIONS

NO.	BY	DATE	DESCRIPTION
1	BG	2-5-22	BD PLANS

**NOTE TO BUILDING DEPARTMENT:**

THESE DOCUMENTS (PLANS & SPECIFICATIONS) ARE VALID FOR PERMITS ONLY WHEN THE ARCHITECT'S ORIGINAL SEAL AND SIGNATURE APPEARS AND IS AFFIXED, AND UNLESS OTHERWISE PROVIDED IN WRITING ARE INTENDED AS A PERMIT SUBMITTAL FOR ONE (1) BUILDING ONLY.

BR Design & Architecture 2022

INTERIOR REMODEL  
 RIGHTEOUS KITCHEN  
 TO BE LOCATED AT  
 390 E. ST CHARLES ROAD  
 LOMBARD, IL

**BR Design & Architecture**

ONE TRANS AM PLAZA DRIVE - SUITE #120  
 OAKBROOK TERRACE IL 60181  
 PHONE: 708-508-7281

PROJECT ARCHITECT: DATE: 2-5-22

DRAFTSPERSON: SCALE:

APPROVED: BRIAN L. GOULD

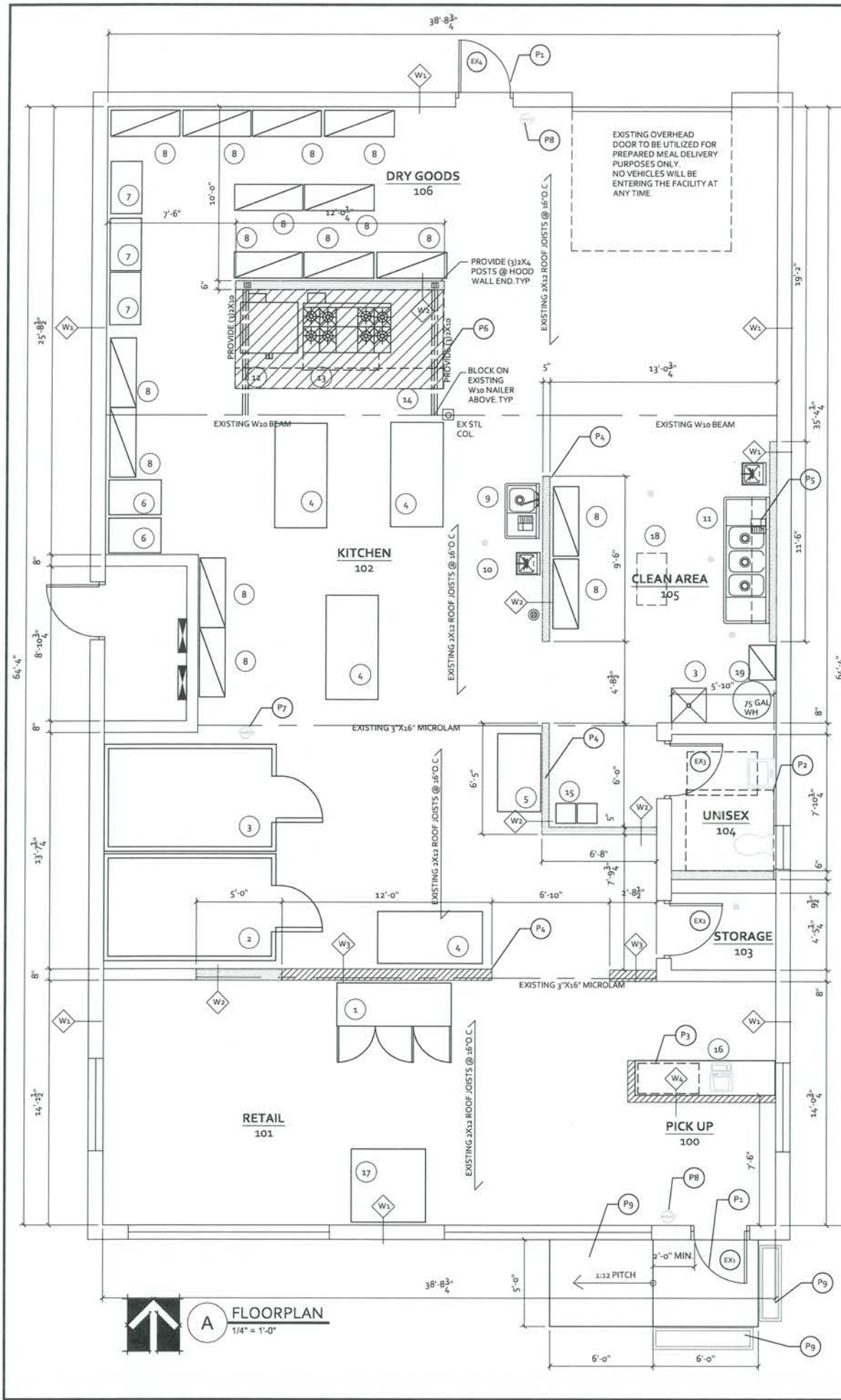
PREPARED FOR: RIGHTEOUS KITCHEN

LOCATION: 390 E. ST CHARLES ROAD, LOMBARD, IL

JOB NUMBER: EXP: 11/30/22

SHEET NUMBER: **A-0.0** OF





**EQUIPMENT SCHEDULE NOTES:**

1. FINAL LENGTH OF SHELVING TO BE DETERMINED IN THE FIELD BY THE TENANT.
2. GALVANIZE UNDER SHELVES ARE NOT ALLOWED
3. GENERAL CONTRACTOR TO INCLUDE IN BID ALL EQUIPMENT INSTALLATION AND CONNECTIONS
4. EQUIPMENT TO BE INSTALLED BY A QUALIFIED EQUIPMENT INSTALLER. SEE DRAWINGS PREPARED BY EQUIPMENT VENDOR FOR INSTALLATION AND CONNECTION REQUIREMENTS. ALL EQUIPMENT AND SHELVING TO BE NSF APPROVED. USE EQUIPMENT MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT.
5. SEE ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL EQUIPMENT REQUIREMENTS. ALL EQUIPMENT CONNECTIONS, EQUIPMENT VOLTAGE, AMPAGE AND PHASE, GAS, WATER CONNECTION ETC. TO BE CONFIRMED WITH FINAL EQUIPMENT SELECTION. VERIFY EXACT EQUIPMENT REQUIREMENTS AND CONNECTIONS WITH TENANT PRIOR TO ANY ROUGH IN WORK.
6. ANY USED EQUIPMENT INCLUDING SMALLWARES MUST BE NSF APPROVED, CLEAN, OPERABLE, AND SUBJECT TO FINAL APPROVAL BY THE DUPAGE COUNTY HEALTH DEPARTMENT. ALL EQUIPMENT MUST BE FREE OF RUST AND DEBRIS, AND IN LIKE NEW CONDITION. ALL REFRIGERATION MUST HAVE DATA PLATES AND BE NSF STANDARD 7 COMPLIANT.
7. ITEMS (COOLING EQUIPMENT & REACH IN REFRIGERATION UNITS) ALL TO BE INSTALLED ON CASTERS
8. PROVIDE NSF APPROVED OPEN WIRE DUNNAGE RACKS IN THE WALK IN COOLER WHERE APPLICABLE
9. GAS EQUIPMENT TO BE INSTALLED WITH A QUICK DISCONNECT HOSE CONNECTION AND RESTRAINING DEVICE.

**DOOR NOTES:**

1. VERIFY ALL EXIT DOORS ARE OPERABLE FROM THE INSIDE BY A LEVER WITHOUT THE USE OF A KEY.
2. VERIFY ALL DOOR AND HARDWARE SHALL COMPLY WITH THE STATE OF ILLINOIS ACCESSIBILITY STANDARDS AND ADA REQUIREMENTS. REPLACE EXISTING HARDWARE IF REQUIRED TO COMPLY WITH STATE AND FEDERAL REQUIREMENTS.
3. REPAINT ALL HOLLOW METAL DOOR AND FRAMES IF NECESSARY.
4. REPAIR ALL WOOD DOORS IF NECESSARY
5. EXISTING EXTERIOR ENTRY DOORS TO BE SELF CLOSING AND TIGHT FITTING. ADD NEW THRESHOLD AND SWEEPS IF NECESSARY TO PREVENT ENTRANCE OF INSECTS AND RODENTS.
6. ALL DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED BETWEEN 34" AND 48" A.F.F. THE OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. ALL EXIT DOORS SHALL SWING AND MEET THE MAXIMUM OPENING FORCES REQ. IN ACCORDANCE WITH SECTION, (1003.3.1.8.3)
7. VERIFY EXISTING PANIC HARDWARE AND WEATHERSTRIPPING AT EXTERIOR DOORS WHERE REQUIRED.

**ROOM FINISH NOTES:**

1. ALL INTERIOR WALL FINISHES SHALL NOT BE LESS THAN CLASS II FINISHES AS CLASSIFIED IN ACCORDANCE WITH ASTM E84.
2. ALL INTERIOR FLOOR FINISHES SHALL NOT BE LESS THAN CLASS II MATERIALS PER ASTM E648. INTERIOR FLOOR FINISHES SHALL COMPLY WITH THE DOC FF-1 "PULL TEST" (CPS 16 PART 463). MINIMUM CRITICAL RADIANT FLUX OF .04 WATTS/CM<sup>2</sup>
3. ALL INTERIOR WALL AND CEILING FINISHES SHALL HAVE A FLAME AND SMOKE RATING NOT GREATER THAN DESIGNATED BY THE REQUIRED CLASSIFICATION.
4. PROVIDE LIGHT COLORED FRP PANELING WITHIN KITCHEN AREA ON NEW GYPSUM WALLS FROM FLOOR LEVEL UP TO EXISTING CEILING HEIGHT. UTILIZE PROPER CONNECTION/TERMINATION PIECES BETWEEN PANELS AND COVED END AT FLOORWALL TRANSITION.
5. KEEP ALL COLORS LIGHT COLORED SEMI-GLOSS PAINT
6. ANY SOILED OR DAMAGED FLOOR, WALL, AND CEILING FINISHES ARE TO BE REPLACED OR REPAIRED TO BE IN LIKE NEW CONDITION.

**FINISH ABBREVIATIONS:**

GYP. BD. = 1/2" TYPE 'X' GYPSUM BOARD  
 WRGB = 1/2" TYPE 'X' WATER RESISTANT GYPSUM BOARD  
 PT = PAINT FINISH  
 CONC = EXISTING EPOXY COATED CONC FLOOR TO REMAIN. REPAIR ANY NEW AREAS TO MATCH  
 ACC1 = USG "CLEARROOM CLIMAPLUS" VINYL COATED 3X3 TILES  
 PT/FRP = FIBERGLASS REINFORCED PANELS UP 9'-0"  
 AFF = EX CMU - EXISTING PAINTED CMU TO REMAIN

**FLOORPLAN NOTES**

P1. EXISTING ENTRY/REAR DOORS. NO WORK ANTICIPATED.  
 P2. EXISTING RESTROOM FIXTURES AND ACCESSORIES TO REMAIN.  
 P3. PROVIDE NEW CARPENTER BUILT FRONT TRANSACTION COUNTER. ALL SURFACES TO MEET HEALTH DEPARTMENT REQUIREMENTS. ANY WOOD TO BE SEALED OR COATED. MAX COUNTER HEIGHT TO BE 34" AFF.  
 P4. NEW WALL AS SHOWN - SEE WALL DETAILS - TYPICAL NON-LOAD BEARING INTERIOR PARTITION. 3-5/8" METAL STUDS W/ 5/8" TYPE X GYPSUM ON EACH SIDE. PROVIDE GREEN BOARD AT ANY WET WALL LOCATIONS.  
 P5. ALL SHELVING TO BE HUNG TO EXISTING/NEW WALLS WITH PROPER HEAVY DUTY ANCHORS GIVEN WALL MATERIAL. ANY NEW WALLS SHALL BE PROVIDED WITH 1/2" FIRE RATED PLYWOOD INSIDE WALL CAVITY FOR  
 P6. NEW TYPE 1 HOOD INSTALLATION. SEE HOOD DRAWINGS FOR FURTHER INFO. CONTRACTOR TO PROVIDE STAINLESS STEEL BACKSPLASH BEHIND HOOD FROM FLOOR UP TO UNDERSIDE OF HOOD. HOOD CANOPY TO EXTEND PAST EQUIPMENT MIN. 6".  
 P7. TYPE K FIRE EXTINGUISHER. FINAL LOCATION DETERMINED IN FIELD WITH FIRE MARSHALL.  
 P8. TYPE ABC FIRE EXTINGUISHER. FINAL LOCATION DETERMINED IN FIELD BY FIRE MARSHALL.  
 P9. OWNER PROVIDED PLANTERS  
 P10. CONTRACTOR TO SAWCUT EXISTING ASPHALT AT NEW CONCRETE STOOP AND SLOPED WALKWAY. CURRENTLY FINISH FLOOR TO OUTDOOR PAVEMENT IS APPROX 5-3/8". PROVIDE 6FT LENGTH MIN OF SLOPED PAVEMENT TO EXISTING ASPHALT PARKING AREA. CONCRETE SHALL BE 4000PSI MIN FIBER MESH REINFORCED. PROVIDE BROOM FINISH

Item No	Qty	Equipment Category	Equipment Remarks	Amps	Volts	NEMA	Gas Size (in)	BTU	Cold Water Size (in)	Hot Water Size (in)	Direct Drain Size (in)	Indir Drain Size (in)
1	1	3 Door Merchandiser	30x34x85	7.5	120v	5-15P						
2	2	Kolpak Walk in Cooler	72x120x84									
3	1	Mop Sink- w/ heavy duty rack	25"x25"x46"						1/2"	1/2"	2"	
4	1	Stainless Steel Work Table-nsf approved	size varies- shelving below									
5	1	Atosa Top Mount Reach In Freezer	52x32x82	8.6	120v	5-15P						
6	2	Advantco Heated Holding Cabinets	21"x30"x68"	12.0	120v	5-15P						
7	3	Reach-in Freezer										
8	15	Alera Wire Storage Racks	size varies-1596 total									
9	1	Regency Prep sink- 600S1181818LFT	38.5" x 23.5" 18X18X14 bowl						1/2"	1/2"		4"
10	1	Regency Hand Sink SEH517	Wrist Blade faucet						1/2"	1/2"	1-1/2"	
11	1	Regency 3-comp Sink 600S31620218	88" long-w/ lever drains						1/2"	1/2"		4"
12	1	Vulcan Gas Convection Double Oven VC44E	40x37x70	70	208v							
13	1	Vulcan Gas Range BDGR-601NG	60x32X60				3/4	360k				
14	1	Captive Aire Hood	144" X 68" X 48"									
15	1	ADA Employee Lockers										
16	1	Register- POS System										
17	1	Air Cooler-Refrigerator										
18	1	Watts Grease Interceptor 75 Gal Capacity										
19	1	Commercial Water Heater- Rheem 75 Gallon G75-75N-3										

MARK	SIZE		DOOR		FRAME		HARDWARE SET	REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	DEPTH		
EX1	3'-0"	7'-0"	B	GL/ALUM	1	ALUM	4-1/2"	EXISTING DOOR-VERIFY WORKING ADA HARDWARE
EX2	3'-0"	7'-0"	A	W/SC	1	MTL	5-1/2"	VERIFY ADA LEVER HARDWARE
EX3	3'-0"	7'-0"	BA	W/SC	-	MTL	5-1/2"	VERIFY ADA LEVER HARDWARE
EX4	3'-0"	7'-0"	C	HMI	1	STL	5-1/2"	REPAIR/REPLACE DOOR

**DOOR HARDWARE**

GROUP 1  
 1 1/2" PAIR BUTT HINGES  
 ADA LEVER TYPE HANDLE  
 PRIVACY LOCKSET

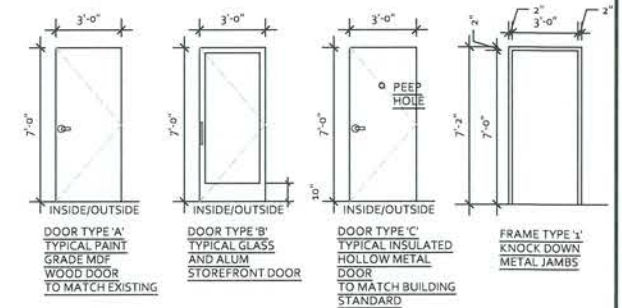
GROUP 2  
 1 1/2" PAIR BUTT HINGES  
 ADA LEVER STYLE HANDLE  
 KEYS LOCKSET

**DOOR SCHEDULE ABBREVIATIONS**

HMI HOLLOW METAL DOOR  
 INSULATED HOLLOW METAL EXTERIOR DOORS  
 BIRCH VENEER WOOD - SOLID CORE  
 GLASS FULL LITE GLASS AND ALUMINUM DOOR

**DOOR SCHEDULE NOTES:**

1. ALL DOORS SHALL BE 1 1/2" THICK UNLESS NOTED OTHERWISE
2. PROVIDE WALL BUMPERS OR FLOOR STOPS FOR ALL SWINGING DOORS
3. ADA LEVER HARDWARE ON ALL DOOR W/ KNURLED HARDWARE INTO HAZARD ROOMS
4. ALL EGRESS DOORS SHALL UTILIZE KEYLESS LOCKSETS AND BE READILY OPENABLE.
5. NO FLUSH BOLTS, DEAD OR DRAW BOLTS ARE ALLOWED.
6. OPERATING PRESSURE OF DOORS:  
 EXTERIOR: MAX 5.0#  
 INTERIOR: MAX 5.0#
7. DOOR THRESHOLD SHALL NOT EXCEED 1/2" IN HEIGHT. THRESHOLDS EXCEEDING 1/4" IN HEIGHT SHALL HAVE A 1:2 BEVEL.
8. ALL GLAZING FOR ENTRY DOOR AND SIDELIGHT SHALL BE TEMPERED GLASS.
9. INSULATED METAL EXTERIOR DOORS SHALL HAVE MIN U-FACTOR .45 OR BETTER



ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS								CEILING	CEILING HEIGHT
				NORTH		EAST		SOUTH		WEST			
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH		
100	PICKUP	CONC	VB	EX CMU	PT	EX CMU	PT	EX CMU	PT	EX CMU	PT	EXP	EX-10'-0"
101	RETAIL	CONC	VB	EX CMU	PT	EX CMU	PT	EX CMU	PT	EX CMU	PT	EXP	EX-10'-0"
102	KITCHEN	CONC	VB	GYPBD	PT/FRP	GYPBD	PT/FRP	GYPBD	PT/FRP	GYPBD	PT/FRP	ACC1	9'-0"
103	STORAGE	CONC	VB	EX	EX	EX	EX	EX	EX	EX	EX	EX	9'-0"
104	UNISEX	CONC	VB	EX	PT/FRP	EX	PT/FRP	EX	PT/FRP	EX	PT/FRP	EX	9'-0"
105	CLEAN AREA	CONC	VB	EX CMU	PT	GYPBD	PT/FRP	EX CMU	PT	GYPBD	PT/FRP	ACC1	9'-0"
106	DRY GOODS	CONC	VB	EX CMU	PT	EX CMU	PT	GYPBD	PT	EX CMU	PT	ACC1	9'-0"

BR Design & Architecture 2021  
 Copyright, 2021, BR Design & Architecture These plans are protected under copyright laws of the United States and foreign countries, and are to be used only for the construction and repair and remodeling of the structure or structures defined in the contract between the Architect and the Owner. Any use of these plans to construct, remodel or repair additional structures constitutes a violation of the Architect's copyright of these plans and is prohibited.

**ISSUES AND REVISIONS:**

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2-5-22	BD PLANS			

**NOTE TO BUILDING DEPARTMENT:**  
 THESE DOCUMENTS (PLANS & SPECIFICATIONS) ARE VALID FOR PERMITS ONLY WHEN THE ARCHITECT'S ORIGINAL SEAL AND SIGNATURE APPEARS AND IS AFFIXED, AND UNLESS OTHERWISE PROVIDED IN WRITING ARE INTENDED AS A PERMIT SUBMITTAL FOR ONE (1) BUILDING ONLY.  
 BR Design & Architecture 2022

INTERIOR REMODEL  
 RIGHTEOUS KITCHEN  
 TO BE LOCATED AT  
 390 E. ST CHARLES ROAD  
 LOMBARD, IL

**BR DESIGN & ARCHITECTURE**  
 ONE TRANS AM PLAZA DRIVE SUITE #120  
 OAKBROOK TERRACE IL 60151  
 PHONE: 708-508-7281

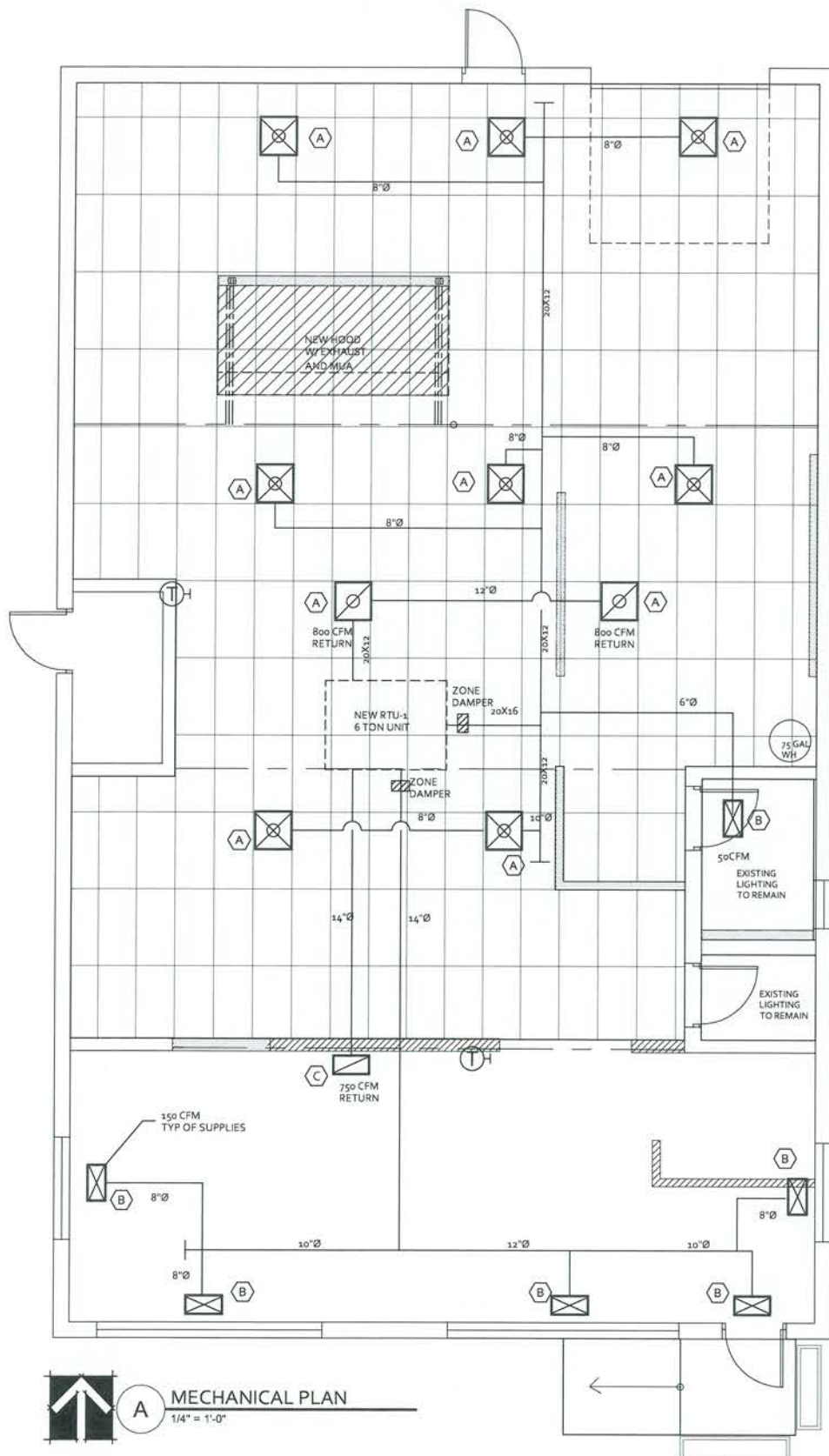
PROJECT ARCHITECT: DATE: 2-5-22  
 DRAFTSPERSON: SCALE:  
 APPROVED: [Signature] NAME: BRIAN L GOULD  
 PREPARED FOR: RIGHTEOUS KITCHEN  
 LOCATION: 390 E ST CHARLES ROAD LOMBARD, IL  
 JOB NUMBER: EXP-110902

SHEET NUMBER:  
**A-1.0** OF









**A MECHANICAL PLAN**  
1/4" = 1'-0"

- LEGEND**
- EXIT SIGN/EM COMBO UNIT WITH 90 MIN. BATTERY BACK-UP. MAX 5WATTS PER SIDE
  - EXIT SIGN WITH 90 MIN. BATTERY BACK-UP. MAX 5WATTS PER SIDE
  - EMERGENCY LIGHTING W/ 90 MIN BATTERY BACK-UP
  - FIRE EXTINGUISHER
  - DUPLEX OUTLET
  - 110V QUAD OUTLET
  - DEDICATED OUTLET
  - 110V RECESSED FLOOR OUTLET
  - DATA/PHONE OUTLET PROVIDE 3/4" CONDUIT STUB UP ABOVE CEILING- LOW VOLTAGE INSTALL BY OTHERS.
  - 2'x4' 120V 35W LAY-IN LED LIGHT FIXTURE WITH COVERED LENSES-REPLACE EXISTING FIXTURES WITH NEW. ADJUST LOCATION AS NEEDED
  - 6' LED CAN LIGHT 13W
  - 50CFM EXHAUST FAN UNIT
  - NEW HVAC SUPPLY DIFFUSER
  - NEW HVAC RETURN DIFFUSER
  - OCCUPANCY SENSOR-VERIFY/PROVIDE AT EXISTING RESTROOM/JAN CLOSET/ STORAGE ROOMS

**NOTE TO HVAC CONTRACTOR:**

- HVAC DUCT SIZING AND LAYOUT SHOWN IS FOR GENERAL PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO VERIFY DUCT SIZING AND APPROPRIATE LENGTHS FOR REQUIRED CFM OUTPUT ON ANY ADDED RETURN/SUPPLY REGISTERS (IF APPLICABLE-SEE PLANS). CONSULT ARCHITECT WITH ANY DISCREPANCIES OR FIELD CONDITIONS THAT EXISTING WHICH MAY ALTER DESIGN SHOWN ABOVE.
- NEW RTU TO BE INSTALLED.
- MAIN DUCTWORK WITHIN UNIT AT CEILING LEVEL TO REMAIN AS IS. ADJUST LOCATION OF NEW BRANCH SUPPLY/RETURNS ONLY AS NEEDED FOR NEW ROOM CONFIGURATIONS.
- BALANCE UNITS FOR REQUIRED FRESH AIR INTAKE TO MEET OR EXCEED THOSE AMOUNTS SHOWN IN TABLE 403.3. TEST AND BALANCE REPORT REQUIRED AND SUBMITTED TO CITY/VILLAGE FOR APPROVAL. AN ECONOMIZER WILL BE REQUIRED AND/OR MUA UNIT ADJUSTED ON HOOD TO SUPPLY ADDITIONAL HEATED MUA TO COMPENSATE FOR THE FRESH AIR REQUIREMENT FOR SPACE.
- VERIFY EXISTING BATHROOM EXHAUST FAN DUCTS TERMINATE AT ROOFLINE WITH PROPER RAINGAPS AND WITHIN MIN. 10FT FROM ANY RTU INTAKES.
- GENERAL EXHAUST FOR KITCHEN SPACE AS REQUIRED PER IMC TO BE SUPPLIED THROUGH ADDITIONAL EXHAUST AT NEW HOOD.

- HOOD/MECHANICAL NOTES**
1. THE CANOPY OF THE HOODS SHALL EXTEND OR OVERHANG THE EQUIPMENT BEING SERVED BY THE HOOD BY AT LEAST 6" IMC 507.12
  2. VERTICAL AND HORIZONTAL GREASE DUCTS REQUIRE CLEANOUT AND OPENINGS WITH TIGHT FITTING DOORS AND GASKETS/SEALING MATERIALS RATED FOR NOT LESS THAN 1,500 DEGREES FAHRENHEIT.
  3. PORTABLE CLASS K RATED FIRE EXTINGUISHERS SHALL BE PROVIDED WITHIN 30FT TRAVEL DISTANCE OF COMMERCIAL TYPE COOKING EQUIPMENT INVOLVING VEGETABLE OR ANIMAL OILS AND FATS.
  4. THE OPENING OF THE EXHAUST ON THE ROOF SHALL BE PLACED AT LEAST 40" ABOVE THE ROOF SURFACE.
  5. PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED CONCEALED WHERE INSTALLED IN A SHAFT OR COVERED BY COATINGS OR WRAPS.
  6. THE FOLLOWING TESTING/INSPECTIONS SHALL OCCUR FOR THE HOOD SYSTEM. THE LOCAL OFFICIAL SHALL HAVE A MINIMUM OF 48 HOURS NOTICE OF THE TEST. THEY SHALL INCLUDE BUT ARE NOT LIMITED TO:
    - A- A PERFORMANCE TEST SHALL BE CONDUCTED UPON COMPLETION AND BEFORE FINAL APPROVAL OF THE HOOD AND DUCT SYSTEM. THIS TEST SHALL VERIFY THE EXHAUST AIRFLOW, MAKEUP AIRFLOW, CAPTURE AND CONTAINMENT OF THE EXHAUST SYSTEM.
    - B- A CAPTURE AND CONTAINMENT FIELD TEST SHALL BE CONDUCTED WITH ALL APPLIANCES UNDER THE HOOD.
    - 7. EXTERIOR GAS PIPING SHALL BE PROVIDED WITH A PROTECTIVE COATING, SUCH AS PAINT, TO PREVENT CORROSION.
    - 8. GAS LINES RUN IN CONCEALED LOCATIONS SHALL BE LIMITED TO THE FOLLOWING FITTINGS: THREADED ELBOWS, TEES, COUPLINGS, BRAZED, WELDED, AND FITTINGS LISTED TO ANSI LCC-1/CSA 6.26 OR ANSILCC-4.
    - 9. PROVIDE PROTECTION OF ALL GAS PIPING FROM PHYSICAL DAMAGE IN CONCEALED AREAS BY THE USE OF SHIELDED PLATES.
    - 10. ALL NEW GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH SECTION 405 OF THE IFGC. THE SYSTEM SHALL BE PURGED, VISUALLY AND PRESSURE TESTED. SOAP TESTING IS NOT ACCEPTABLE. MECHANICAL GAUGES USED TO MEASURE TEST PRESSURES, SHALL HAVE A RANGE SUCH THAT THE HIGHEST END OF THE SCALE IS NOT GREATER THAN 5 TIMES THE TEST PRESSURE. THE TEST SHALL BE WITNESSED AND REPORT PROVIDED.

**VENTILATION SCHEDULE**

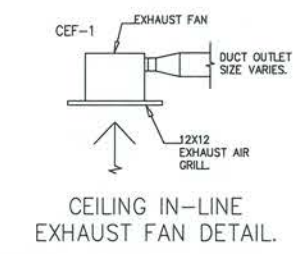
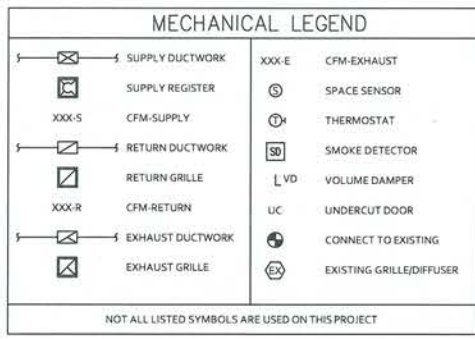
AREA DESCRIPTION	ROOM NO.	REQUIRED MECHANICAL VENTILATION AIR INTERNATIONAL MECH. CODE TABLE 403.3					ACTUAL VENTILATION (CFM)	ACTUAL RETURN (CFM)	ACTUAL OSA (CFM)	ACTUAL EXHAUST (CFM)
		AREA SQFT	P/1000 SQFT P2	OSA (CFM) PER PERSON Rp	OUTDOOR AIR RATE Ra	REQUIRED OSA (CFM)				
PICK UP/RETAIL	100/101	546	5	5	.06	46	750	750	150	-
KITCHEN	102	1013	20	7.5	.12	272	800	800	275	SEE HOOD DWG
CLEAN/DRYWOOD	105/106	646	20	7.5	.12	174	452	800	275	SEE HOOD DWG
UNISEX	103	48	-	-	-	-	50	-	-	75
STORAGE	104	25	-	-	-	-	25	25	-	-

**FAN SCHEDULE @ RESTROOMS**

LABEL	MANUF.	MODEL	CFM	S.P.	MOUNTING	MOTOR HP	RPM	VOLTAGE	WEIGHT
CEF-1	BRON	L100	75	.25	IN-LINE	2.1 AMPS	759	115V.	25

**GRILLES REGISTERS AND DIFFUSERS SCHEDULE**

TAG	TYPE	MANUF.	SIZE	INLET SIZE	REMARKS
A	24"x24" SAD	-	24"x24"	-	SEE PLAN CEILING SUPPLY AIR DIFFUSER-PERFORATED
B	8X10 SAD	-	8X10	-	SEE PLAN CEILING SUPPLY REGISTER
C	SEWALL RAG	-	SEE PLAN	SEE PLAN	RETURN GRILLE



**HEATING / COOLING ROOF TOP UNIT SCHEDULE**

TAG	AREA SERVED	MANUF.	MODEL #	TON	CFM	H.P.	COOLING			HEATING		VOLTAGE	MCA	MOCP	WEIGHT	NOTES
							MBH	SEER	EER	INPUT	OUTPUT					
RTU-1	SPACE	CARRIER	48CEA07A25	6.0	2,400	-	70	14	12	90	88	208-230-3PHS	39	45	607	F.A DAMPER, ECONOMIZER, EXHAUST DAMPER, PROG STAT

**GENERAL MECHANICAL NOTES**

ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL LOCAL, COUNTY AND STATE CODES. INTERNATIONAL MECHANICAL CODE SHALL APPLY.

ALL EQUIPMENT SHALL HAVE U.L. LISTING.

ALL GAS FIRED EQUIPMENT SHALL BE "AMERICAN GAS ASSOCIATION"

THE GENERAL CONTRACTOR SHALL PROVIDE ALL FLOOR OPENINGS, WALL OPENINGS, UNTELS AND ANY AUXILIARY STRUCTURAL STEEL SUPPORTS NEEDED FOR MECHANICAL PENETRATIONS OR EQUIPMENT SUPPORT.

ALL INTAKE OPENINGS SHALL BE AT LEAST 10'-0" FROM THE DISCHARGE OUTLET OF ANY EXHAUST FAN. AIR SUPPLY WILL BE UNCONTAMINATED AND OPENINGS WILL BE UNOBSTRUCTED AT ALL TIMES.

SMOKE DETECTORS SHALL BE INSTALLED IN THE RETURN DUCT OF EACH AIR HANDLING SYSTEM OF 2000 CFM OR GREATER TO DETECT AND SHUT DOWN THE AIR DISTRIBUTION SYSTEM UPON DETECTION OF SMOKE IN ACCORDANCE WITH

ALL DISCONNECT SWITCHED NOT INCLUDED IN PACKAGED EQUIPMENT SHALL BE APPROVED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED IN THE EQUIPMENT SCHEDULE. STARTERS FOR 3-PHASE MOTORS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR.

REMOTE TEST STATIONS FOR THE DUCT MOUNTED SMOKE DETECTORS (IF REQUIRED) SHALL BE FURNISHED ONLY BY THE ALARM CONTRACTOR FOR THE INSTALLATION AND WIRING BY THE JOB ELECTRICAL CONTRACTOR.

THE TEMPERATURE CONTROLS SUBCONTRACTOR SHALL TYPICALLY PULL 24 VOLT POWER FROM THE RESPECTIVE ROOF TOP UNIT FOR THE DUCT MOUNTED SMOKE DETECTOR WHEN NO OTHER TYPE OF FIRE ALARM AND FIRE/SMOKE DETECTION IS INTERCONNECTED WITH THIS DETECTOR AND ITS OPERATION. HOWEVER, IF ANY OTHER TYPE OF DETECTION OR INTERLOCK WITH OTHER FIRE ALARMS SYSTEMS IS REQUIRED THE 24 VOLT POWER FROM THE ROOF TOP UNIT CANNOT BE USED AND THE JOB SITE ELECTRICAL CONTRACTOR SHALL HAVE THE RESPONSIBILITY OF PROVIDING AND WIRING POWER (24 V OR 120 V) TO EACH SMOKE DETECTOR VIA AN APPROPRIATE DESIGNATED CIRCUIT. FINAL COORDINATION AND RESPONSIBILITY SHALL BE BY THE JOB SITE

CONDUIT FOR LOWVOLTAGE AND ALARM WIRING BY ELECTRICIAN

ELECTRIC HEATING UNITS (i.e. WALL HEATERS, UNIT HEATERS & BASEBOARD) WITH INTEGRAL THERMOSTAT KITS SHALL BE FURNISHED ONLY BY THE MECHANICAL FOR INSTALLATION AND WIRING BY THE JOB ELECTRICAL CONTRACTOR.

GAS PIPING SHALL BE SCHEDULED 40 BLACK STEEL PIPE AS-120 WITH STANDARD BLACK MALLEABLE FITTINGS. PIPE SIZING BASED ON GAS DELIVERY OF 2 LBS. PIPING RUN ON THE ROOF SHALL BE SUPPORTED ON TREATED TIMBER SUPPORTS. PIPING INSTALLED INSIDE THE BUILDING SHALL BE SUSPENDED FROM THE TOP CHORD OF BAR JOIST WITH CLEVIS HANGERS. GAS PRESSURE REGULATORS SHALL BE INSTALLED AT EACH UNIT CONNECTION.

INDOOR MOUNTED GAS REGULATORS SHALL BE VENTED TO THE ATMOSPHERE WITH ELBOW FACING DOWN. 1/8" VENTS SIZES SHALL BE INCREASED TO 1/4" AND SHALL TERMINATE WITH 45 DEGREE CUT END.

ALL SUPPLY AND RETURN DUCTWORK IS TO BE LOW PRESSURE AND FABRICATED FROM PRIME GRADE GALVANIZED SHEETMETAL IN STRICT ACCORDANCE WITH SMACNA (2"W.C.) LOW PRESSURE DESIGN.

ALL SUPPLY AND RETURN DUCTWORK SHALL BE WRAPPED WITH 1 1/2" THICK 2 LBS. DENSITY EROSION RESISTANT DUCT WRAP. ALL DUCT WRAP SHALL HAVE 25 FLAME SPREAD, 50 SMOKE OR LESS.

ALL DUCT SIZING SHALL BE THE RESPONSIBILITY OF THE LICENSED HVAC CONTRACTOR

GRILLES AND DIFFUSERS MAYBE CONNECTED WITH 7" MAXIMUM OF APPROVED FLEXIBLE DUCT WITH 1" THICK INSULATION AND SCUFF RESISTANT VINYL JACKET, UL 181 TYPE AND CODE APPROVED.

ALL SUPPLY AND RETURN SPIN COLLARS SHALL HAVE VOLUME DAMPERS FOR AIR

FLUES FOR THE GAS FIRED EQUIPMENT WITH POWER VENTERS SHALL TERMINATE WITH A WEATHER CAP A MINIMUM OF 2' ABOVE THE ROOF OR A MINIMUM OF 7' ABOVE GRADE IF A SIDEWALL APPLICATION PER NFPA 54.

FLUES FOR THE GAS FIRED EQUIPMENT SHALL BE TYPE "B-VENT"

IN GENERAL, SHEETMETAL ELBOWS SHALL BE FABRICATED WITH A CENTERLINE RADIUS EQUAL TO 1.0 TIMES THE WIDTH OF THE DUCT IN THE PLANE OF THE TURN. WHERE SPACE DOES NOT PERMIT A RADIUS ELBOW OUR DESIGN SHALL REVIEW AND SUGGESTS SYSTEM COMPATIBLE OPTIONS, SUCH AS ELBOWS

ALL DUCTWORK JOINTS, BOTH LONGITUDINAL AND TRANSVERSE TO BE SEALED WITH DUCTMATE JOINT SEALER AND IN ACCORDANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE. THIS INCLUDES ALL S AND DRIVES AS WELL AS PITTSBURGH, SNAP-LOCK JOINTS, STARTING COLLARS AND ELBOW GORES. 603.9 2015IMC & 503.2.7.1 2015 IECC MUST BE UL 181 APPROVED TAPES OR MASTICS.

DUCTS SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT TO EXCEED 10FT

INSULATION SHALL BE INSTALLED PER THE INSTALLATION INSTRUCTIONS. THIS WOULD INCLUDE THE NEED TO MAINTAIN THE VAPOR BARRIER WITH TAPE & A STRAP

GREASE DUCT SHALL BE 16GA BLACK IRON OR 430 18 GAUGE STAINLESS STEEL 100% CONSTRUCTION, FACTORY MOUNTED EXHAUST COLLARS FIRE WRAP WITH 3M 3HR BARRIER, HANGER SPACING PER SMACNA

**C**BR Design & Architecture 2021

Copyright, 2021, BR Design & Architecture These plans are protected under copyright laws of the United States and foreign countries, and are to be used only for the construction and repair and remodeling of the structure or structures defined in the contract between the Architect and the Owner. Any use of these plans to construct, remodel or repair additional structures constitutes a violation of the Architect's copyright of these plans and is prohibited.

**ISSUES AND REVISIONS :**

NO.	DATE	DESCRIPTION
1	2-5-22	BID PLANS

**NOTE TO BUILDING DEPARTMENT:**  
THESE DOCUMENTS (PLANS & SPECIFICATIONS) ARE VALID FOR PERMITS ONLY WHEN THE ARCHITECT'S ORIGINAL SEAL AND SIGNATURE APPEARS AND IS AFFIXED, AND UNLESS OTHERWISE PROVIDED IN WRITING ARE INTENDED AS A PERMIT SUBMITTAL FOR ONE (1) BUILDING ONLY.

CBR Design & Architecture 2022

**INTERIOR REMODEL  
RIGHTEOUS KITCHEN  
TO BE LOCATED AT  
390 E. ST CHARLES ROAD  
LOMBARD, IL**

**BR DESIGN & ARCHITECTURE**

ONE TRANS AM PLAZA DRIVE SUITE 4120  
OAKBROOK TERRACE IL 60151  
PHONE: 708-508-7281

PROJECT ARCHITECT: DATE: 2-5-22  
BG  
DRAFTSPERSON: SCALE:  
BG  
APPROVED: 001-02147  
PREPARED FOR: RIGHTEOUS KITCHEN  
BRIAN L. GOULD  
LOCATION: 390 E ST CHARLES RD LOMBARD, IL  
JOB NUMBER: EXP-113922

SHEET NUMBER:  
**M-1.0** OF



**HOOD INFORMATION - JOB#5313595**

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	P6	5424 EX-2-PSP-F	ECON-AIR	12' 0"	600 DEG	I	HEAVY	200	2400			4'	16'	2400	1719	-1.062'	1920	430 SS WHERE EXPOSED	ALONE	ALONE

**HOOD INFORMATION**

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM	ELECTRICAL	SWITCHES	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE					
1	P6	CAPTRATE SOLID FILTER	9	16"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	WALL MNT	12'x54'x24'	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	740 LBS	

**HOOD OPTIONS**

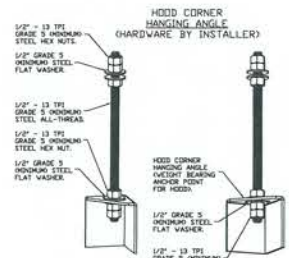
HOOD NO	TAG	OPTION
1	P6	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. BACKSPLASH 80.00" HIGH X 144.00" LONG 430 SS VERTICAL. RISER SENSOR INSTALL 6IN PLEN. RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

**PERFORATED SUPPLY PLENUM(S)**

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1	P6	Front	144"	14"	6"	MUA	10"	24"		640	0.219'
						MUA	10"	24"		640	0.219'
						MUA	10"	24"		640	0.219'

**WALL-MOUNT UTILITY CABINET**

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)				WEIGHT
			TYPE	SIZE	MODEL #	QUANTITY	
1	WALL MNT	12'x54'x24'	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	340.00 LBS

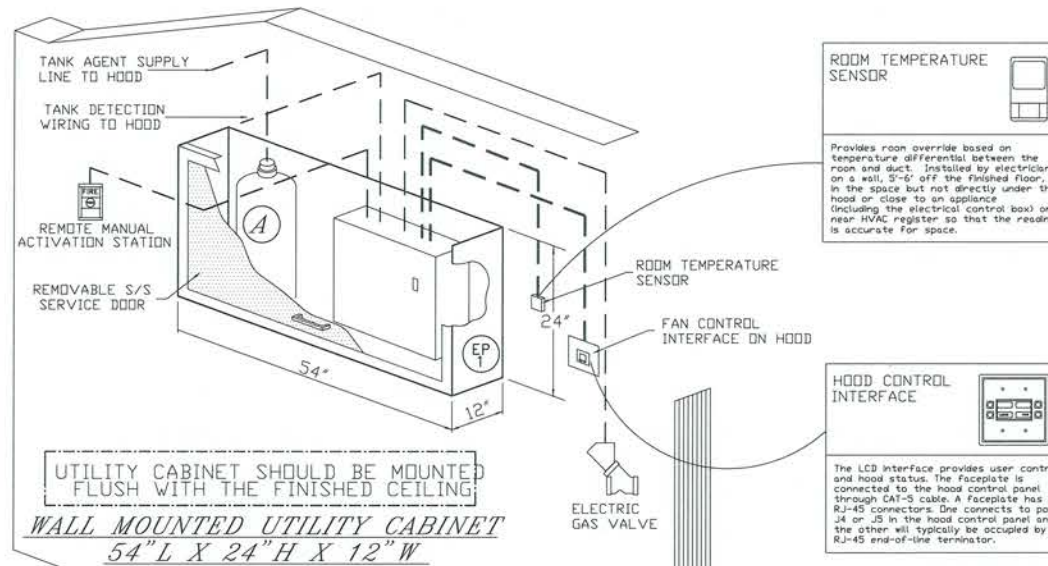


**ASSEMBLY INSTRUCTIONS**

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 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.

ECON-AIR HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96  
NSF  
E.T.L. LISTED 3054804-001 TO UL 710 & ULC710 STANDARDS



- (A) TANK ELECTRIC-WET CHEMICAL FIRE SUPPRESSION SYSTEM
- (EP) PREWIRED ELECTRICAL PANEL WITH FAN CONTROLLERS AND SUPPLY FAN SHUT-DOWN RELAY.

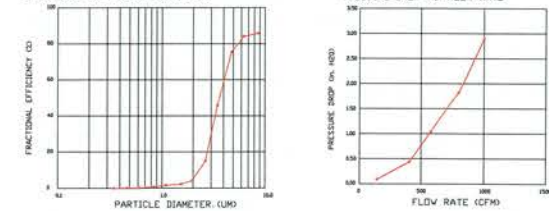
**SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER**

THE CAPTRATE GREASE-STOP SOLID 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).

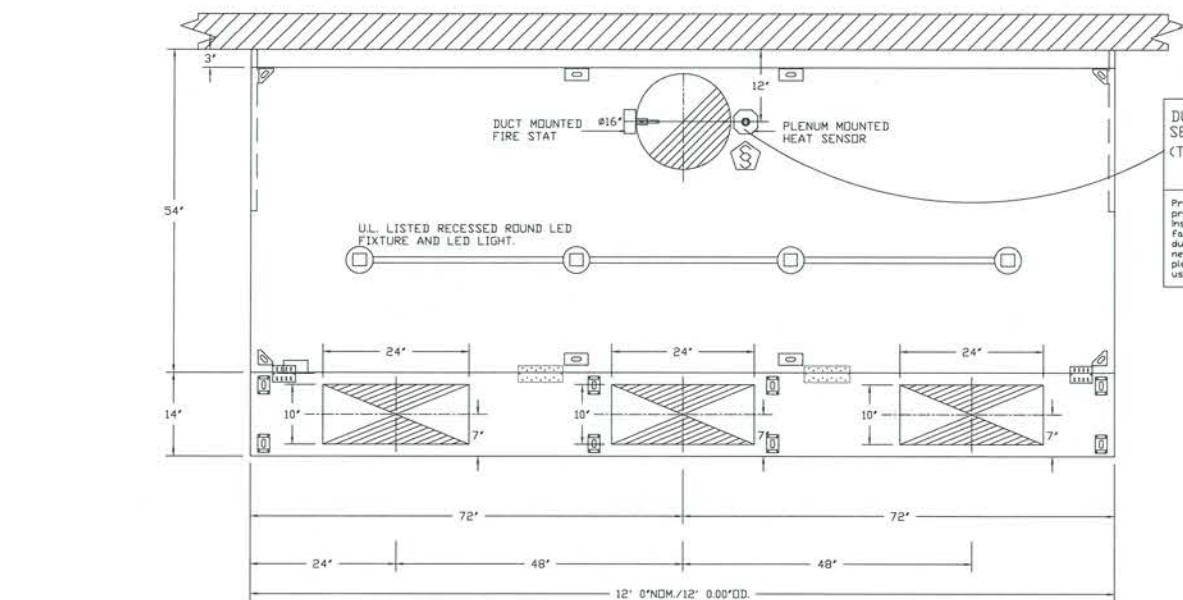
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

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 SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER. EFFICIENCY VS. PARTICLE DIAMETER

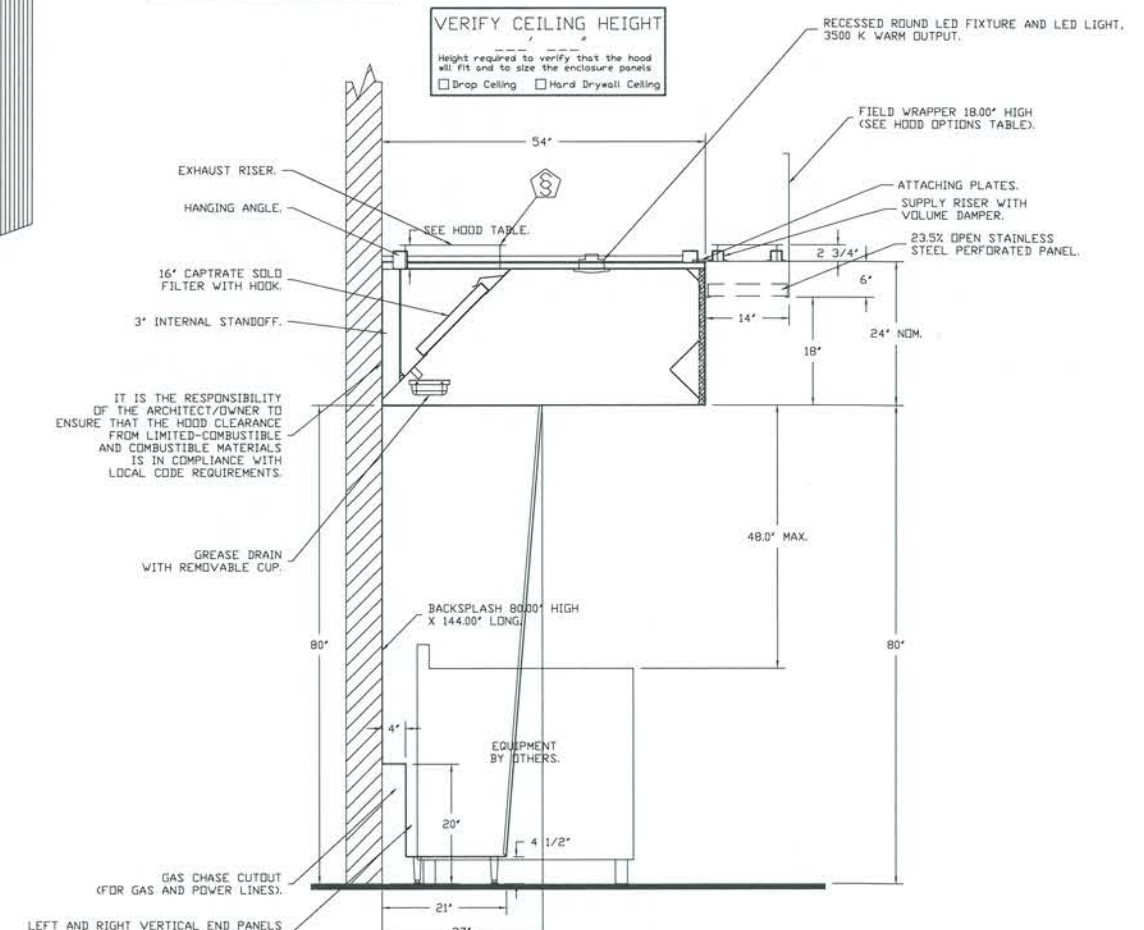


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- NSF STANDARD #2
- UL STANDARD #1046
- INT. MECH. CODE (IMC)
- ULC-S649



PLAN VIEW - HOOD #1 (P6)  
12' 0.00" LONG 5424EX-2-PSP-F  
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12" AND LONGER.



SECTION VIEW - MODEL 5424EX-2-PSP-F  
HOOD - #1 (P6)

FOR QUESTIONS, CALL THE  
Chicago Foodservice Division  
REGION 55  
PHONE: (630) 377-2611  
EMAIL: reg55@econair.com

**PATENT NUMBERS**

- AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
- AC-PSP WALL (CANADA) - CA PATENT 2820509.
- AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

**REVISIONS**

DESCRIPTION	DATE

**Chicago Foodservice Division**  
www.econair.com  
1120 Charleston Drive, St. Charles, IL, 60174 PHONE: (630) 377-2611 FAX: (630) 377-2611 EMAIL: reg55@econair.com

**Righteous Kitchen**  
390 E St Charles Rd,  
Lombard, IL, 60148

DATE: 2/7/2022  
DWG.#: 5313595  
DRAWN BY: WEM  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

**SHEET NO.**  
1



**FIRE SYSTEM INFORMATION - JOB#5313595**

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	FS-1	TANK FS	4.0/4.0	27	WALL UTILITY CABINET LEFT	N/A

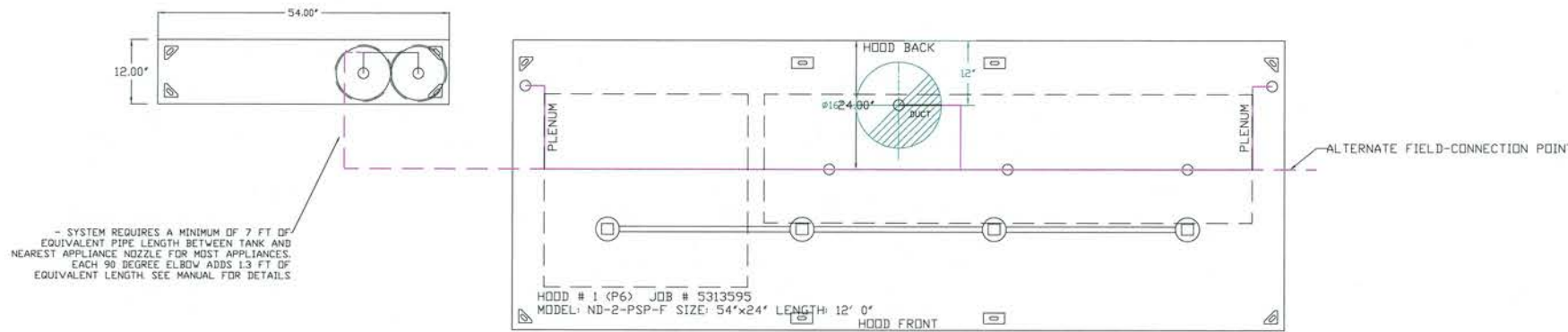
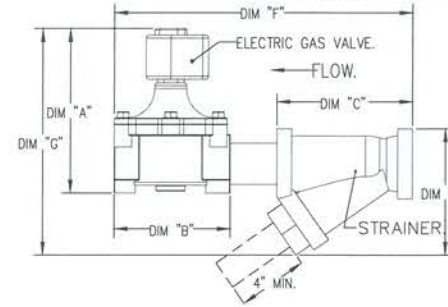
**GAS VALVE(S)**

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	FS-1	SC ELECTRICAL	1.500	ECON-AIR

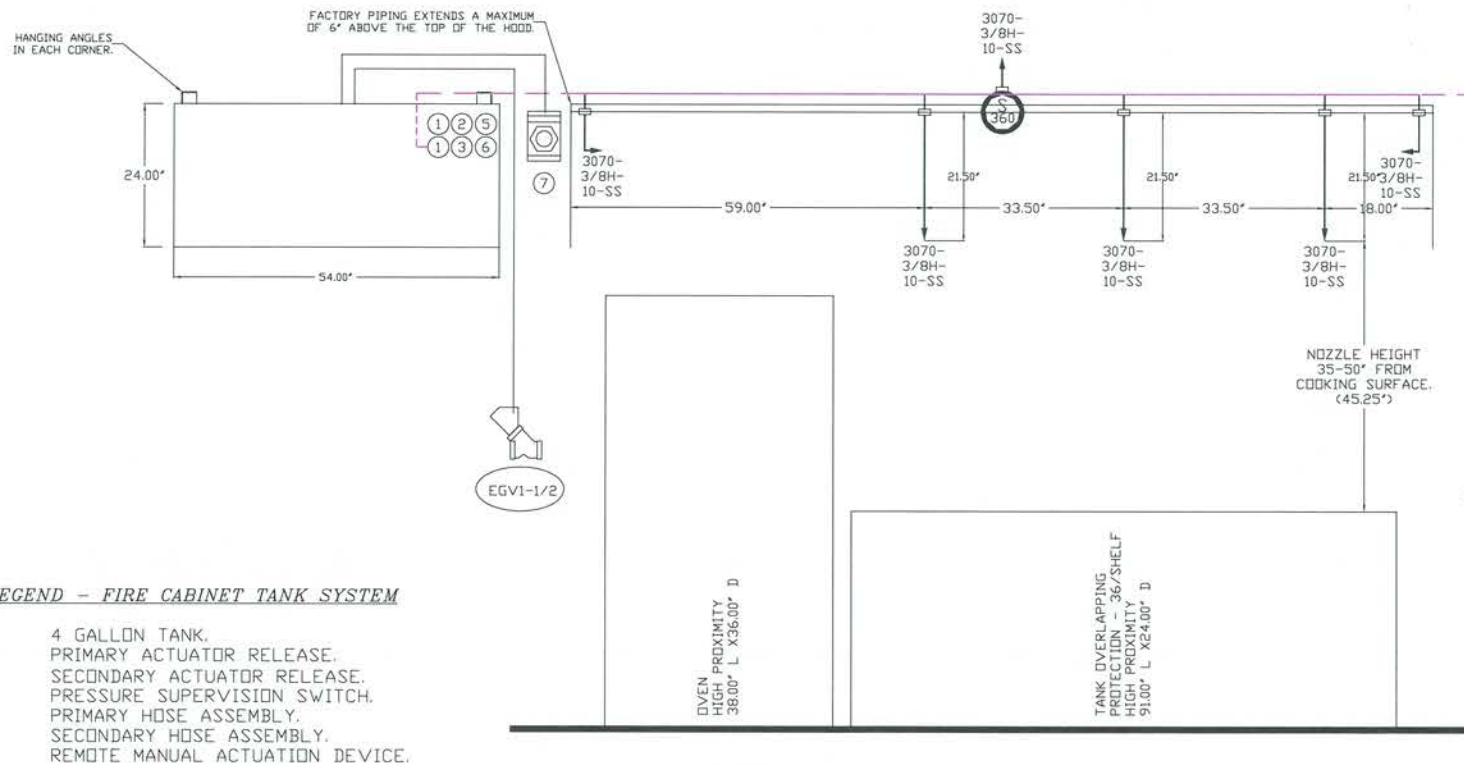
GAS VALVES AND STRAINERS															
TYPE	SIZE	VOLTAGE	GAS VALVE SIZING			GAS VALVE DIMENSIONS						PART NUMBERS			
			MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	INSTALLATION MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER
ELECTRICAL	1-1/2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (1.38 IN.W.C.)	2,406,000 BTU/HR	7-5/8"	6-3/8"	5-3/4"	6-3/16"	14-1/8"	12-5/16"	HORIZONTAL/VERTICAL	8214275	4417K67	(SC)EGV1-1/2

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

**CALCULATIONS**  
 TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP  
 NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP<sup>1.85</sup>  
 TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY  
 NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)<sup>1.85</sup>



- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 13 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS.



**LEGEND - FIRE CABINET TANK SYSTEM**

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

JOB #: 5313595.  
 JOB NAME: RIGHTOUS KITCHEN.

SYSTEM SIZE: TANK-SP-2-WC TOTAL FP REQUIRED: 27.  
 HOOD # 1 12' 0.00' LONG x 54' WIDE x 24' HIGH.  
 RISER # 1 SIZE: 16" DIA.  
 HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

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

**NOTES**

- FIELD PIPE DROPS AS SHOWN.
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DRDPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

**REVISIONS**

DESCRIPTION	DATE

**recon-air**  
 Chicago Foodservice Division  
 1120 Charleston Drive, St. Charles, IL, 60174 PHONE: (630) 377-2611 FAX: (619) 516-8738 EMAIL: reg55@reconair.com

Rightous Kitchen  
 390 E St Charles Rd,  
 Lombard, IL, 60148

DATE: 2/7/2022  
 DWG.#: 5313595  
 DRAWN BY: WEM  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

**EXHAUST FAN INFORMATION - JOB#5313595**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNES
1	EF-1	1	EADU180H	ECDN-AIR	2400	1.250	1147	DDP,PREMIUM	2.000	1.0370	3	208	6.1	554 FPM	163	14.2

**MUA FAN INFORMATION - JOB#5313595**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCF	WEIGHT (LBS)	SDNES
2	MUA-1	1	EAI-D250-15D	15MF-1-MDD	A1-D.250	1000	1920	0.375	1963	DDP,PREMIUM	3.000	1.1760	3	208	8.6	10.8A	15A	501	19.8

**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	171473	157755	80°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

**FAN OPTIONS**

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
2	MUA-1	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	LDW FIRE START
		1	AC INTERLOCK RELAY - 24VAC COIL
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	2 YEAR PARTS WARRANTY

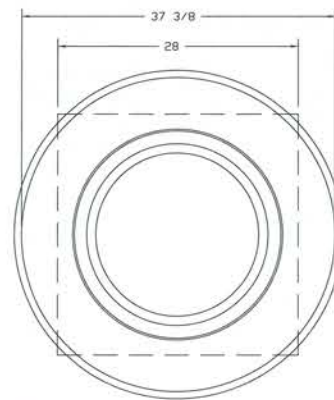
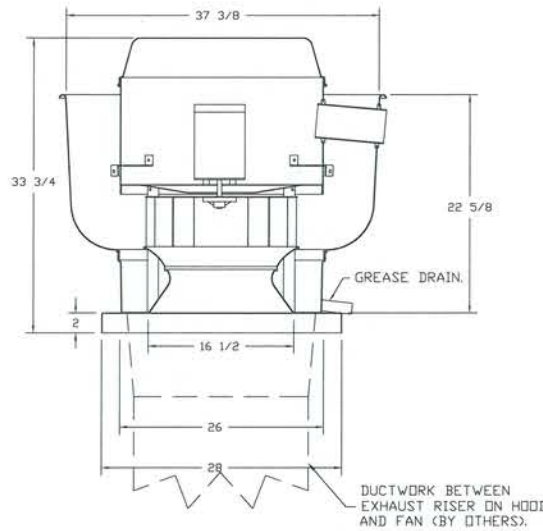
**FAN ACCESSORIES**

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

**CURB ASSEMBLIES**

NO	QTY	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	38 LBS	CURB	26.500"W X 26.500"L X 24.000"H ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	MUA-1	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.

FAN #1 EADU180H - EXHAUST FAN (EF-1)



TOP VIEW

**FEATURES:**

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTRL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

**NORMAL TEMPERATURE TEST**

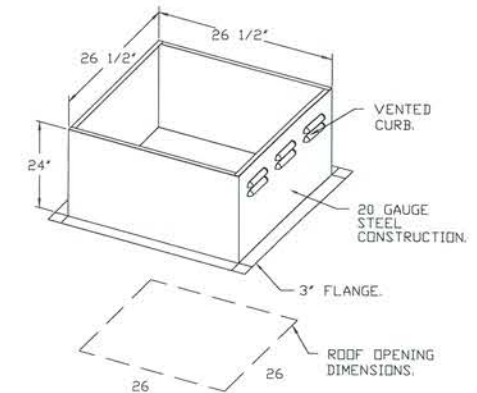
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

**ABNORMAL FLARE-UP TEST**

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

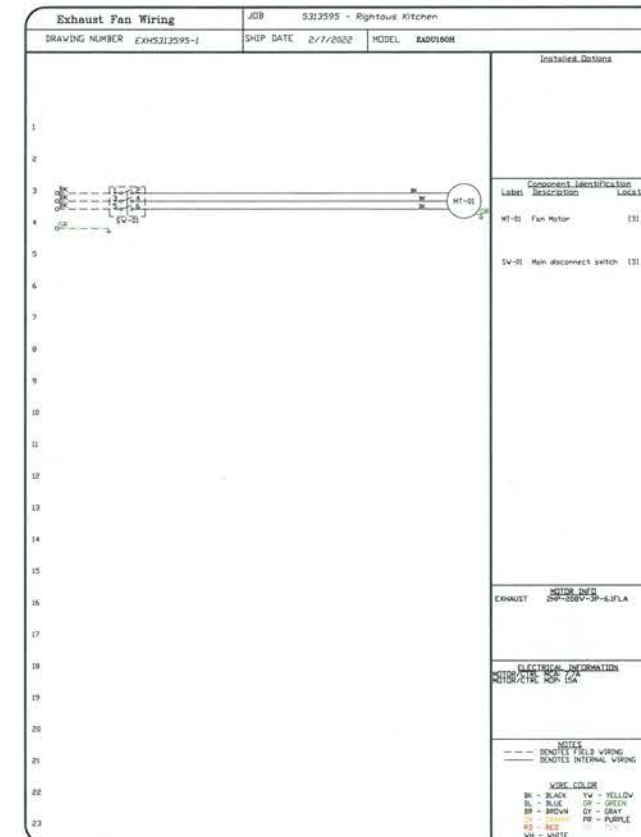
**OPTIONS**

- GREASE BOX.
- FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
- 2-YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:  
EXAMPLE: 7/12 PITCH = 30° SLOPE.



**REVISIONS**

NO.	DESCRIPTION	DATE

**Recon-air**  
Chicago Foodservice Division  
1120 Charleston Drive, St. Charles, IL, 60174 PHONE: (630) 377-2611 FAX: (619) 516-8738 EMAIL: reg55@reconair.com

Rightous Kitchen  
390 E St Charles Rd,  
Lombard, IL, 60148

DATE: 2/7/2022  
DWG.#: 5313595  
DRAWN BY: WEM  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

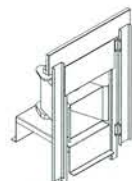
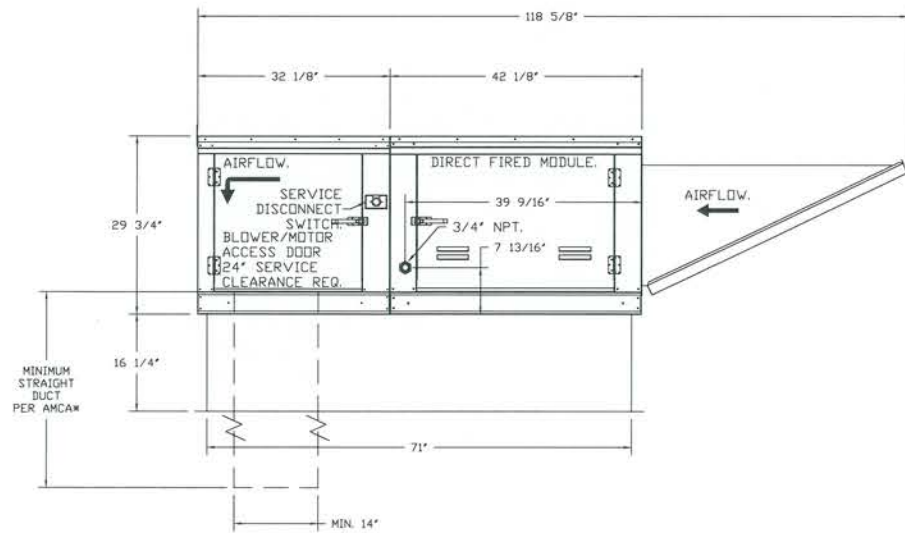
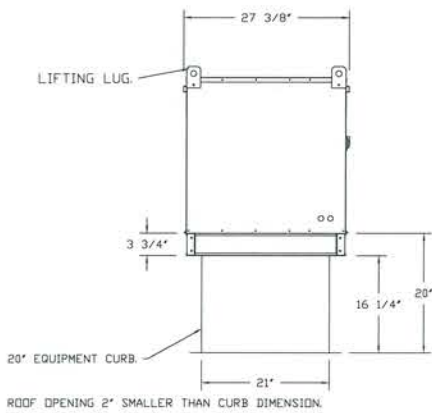
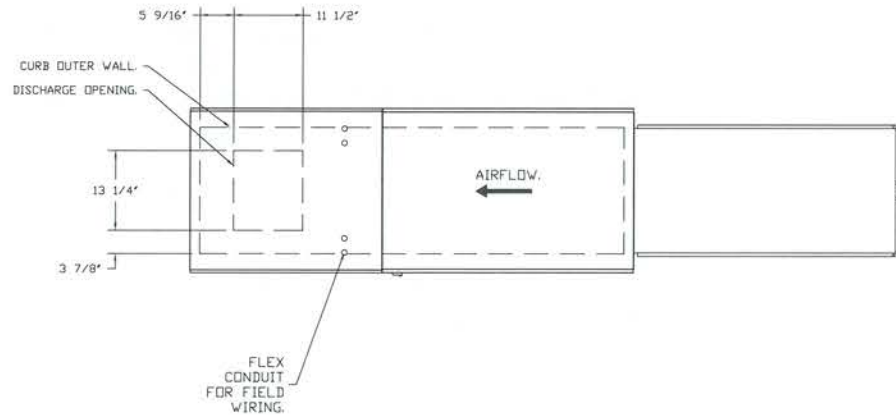


- FAN #2 EAI-D250-15D - HEATER (MUA-D)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
  2. INTAKE HOOD WITH EZ FILTERS.
  3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
  4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
  5. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
  6. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
  7. COOLING INTERLOCK RELAY, 24VAC COIL, 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
  8. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE. TFB120S ACTUATOR INCLUDED.
  9. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRED PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
  10. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
  11. 2 YEAR PARTS WARRANTY

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

SUPPLY SIDE HEATER INFORMATION

WINTER TEMPERATURE = 2°F. TEMP. RISE = 80°F.  
 BTUs CALCULATED OFF ACTUAL AIR DENSITY.  
 OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 161976.  
 INPUT BTUs AT ALTITUDE OF 729 FT. = 157755.  
 OUTPUT BTUs AT ALTITUDE OF 729 FT. = 171472.



DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

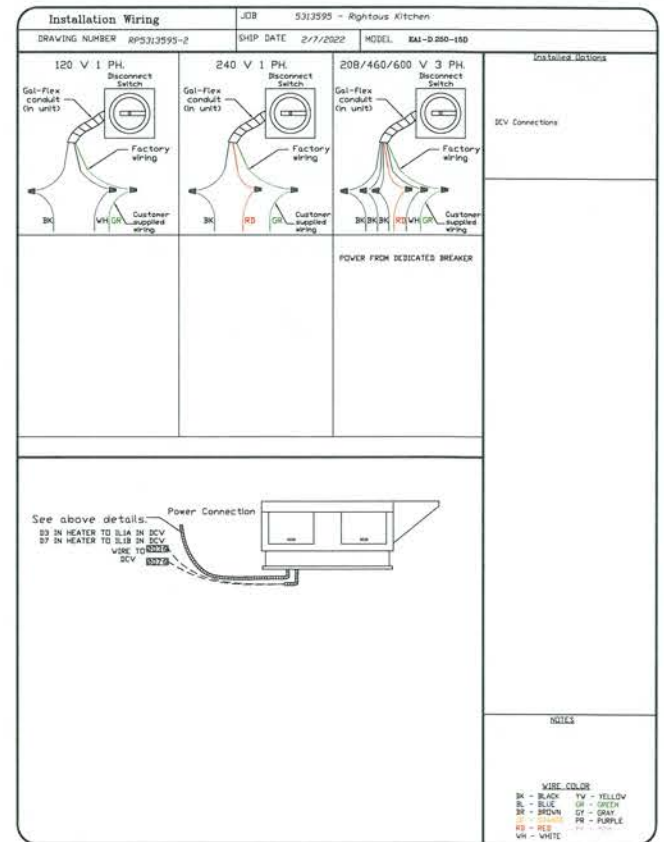
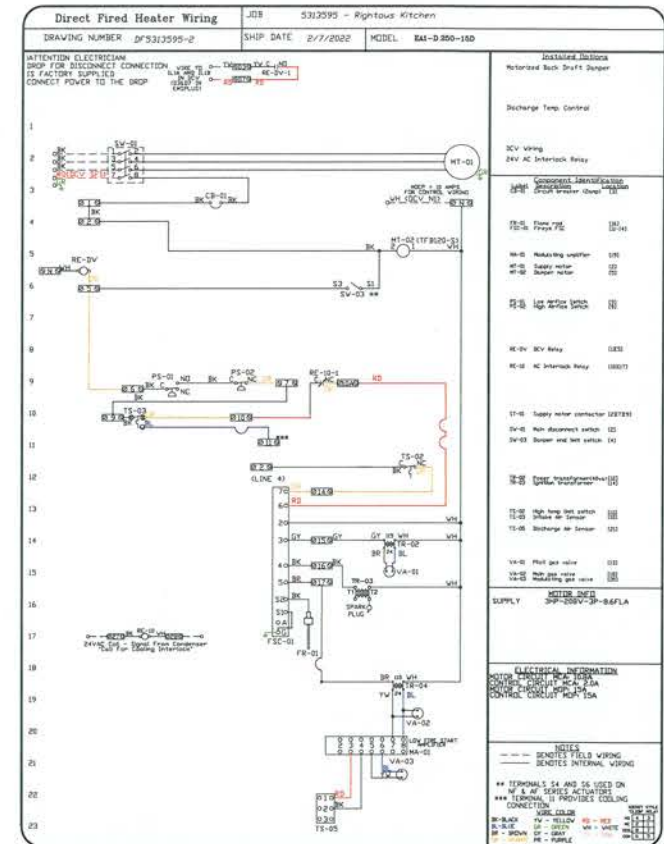
DIRECT FIRED PROFILE PLATE SPECIFICATIONS:

**DESCRIPTION:**  
 DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US62952382) SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 50PPM OF CARBON MONOXIDE (CO) AND 0.5PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BURNER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

**APPLICATION:**  
 SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

**CERTIFICATIONS:**  
 ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

**GENERAL CONSTRUCTION:**  
 -PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.  
 -PROFILE PLATES SHALL VARY IN SIZE PER UNIT.  
 -PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.  
 -DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.  
 -SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



**REVISIONS**

NO.	DESCRIPTION	DATE
1		
2		
3		
4		
5		

**Recon-air**  
 Chicago Foodservice Division  
 1120 Charleston Drive, St. Charles, IL 60174  
 PHONE: (630) 377-2611 FAX: (619) 516-8738 EMAIL: reg5@reconair.com

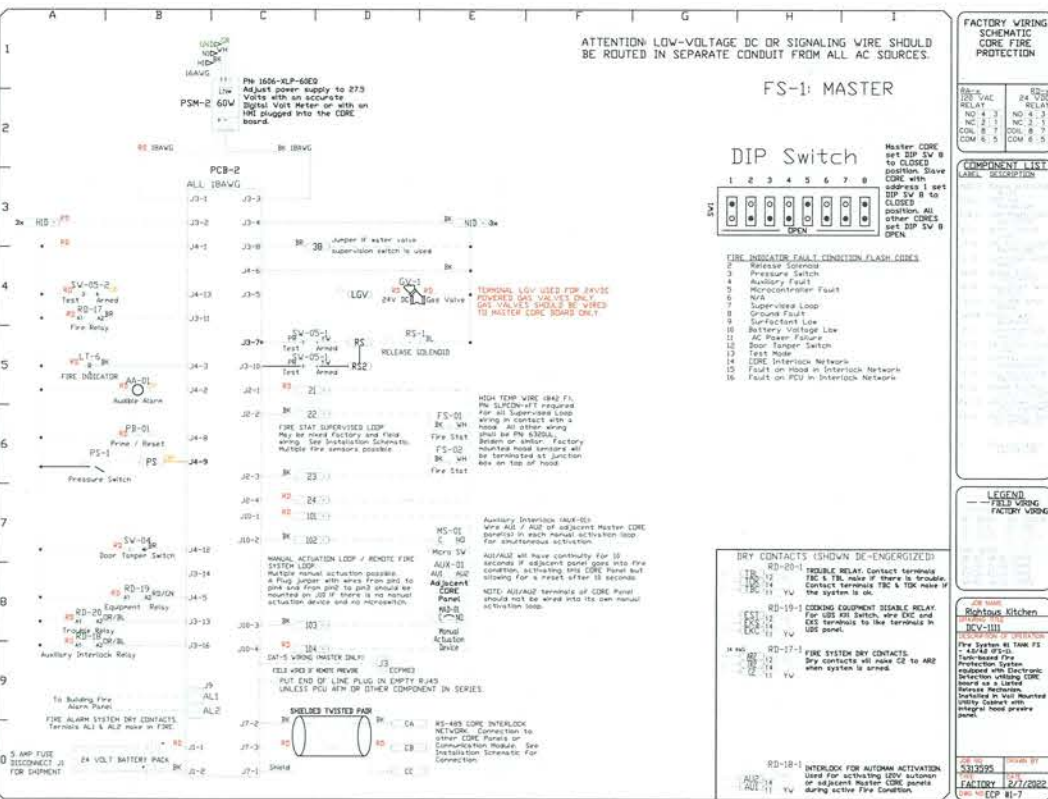
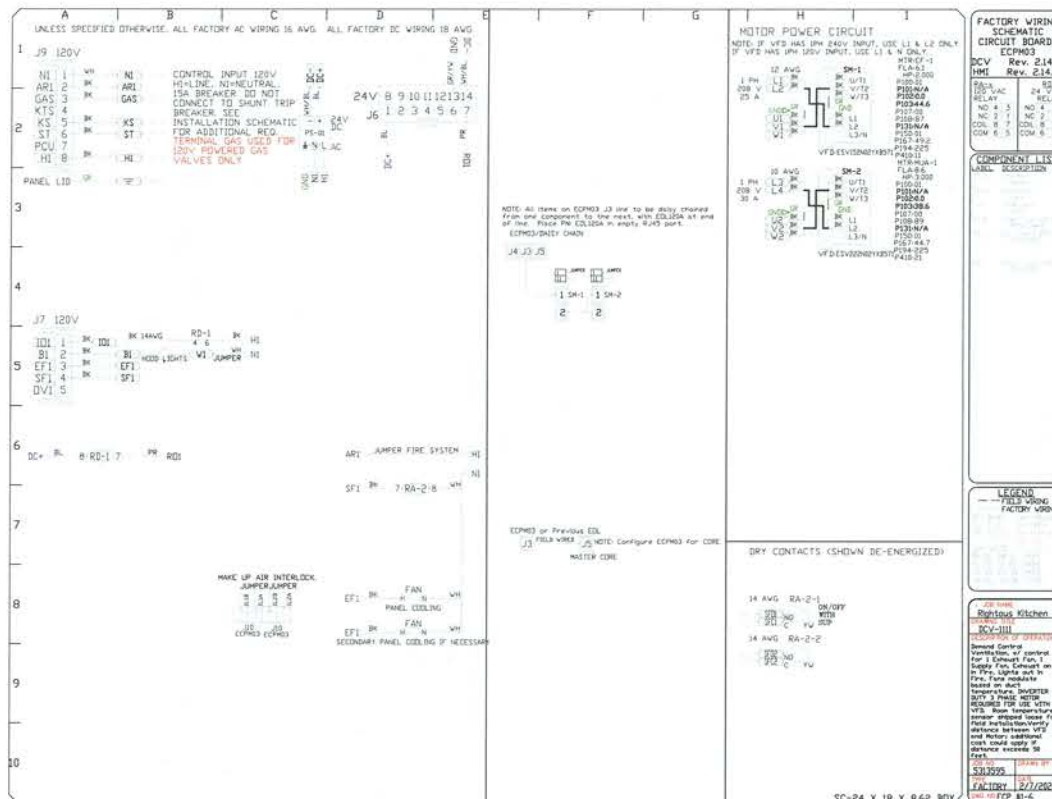
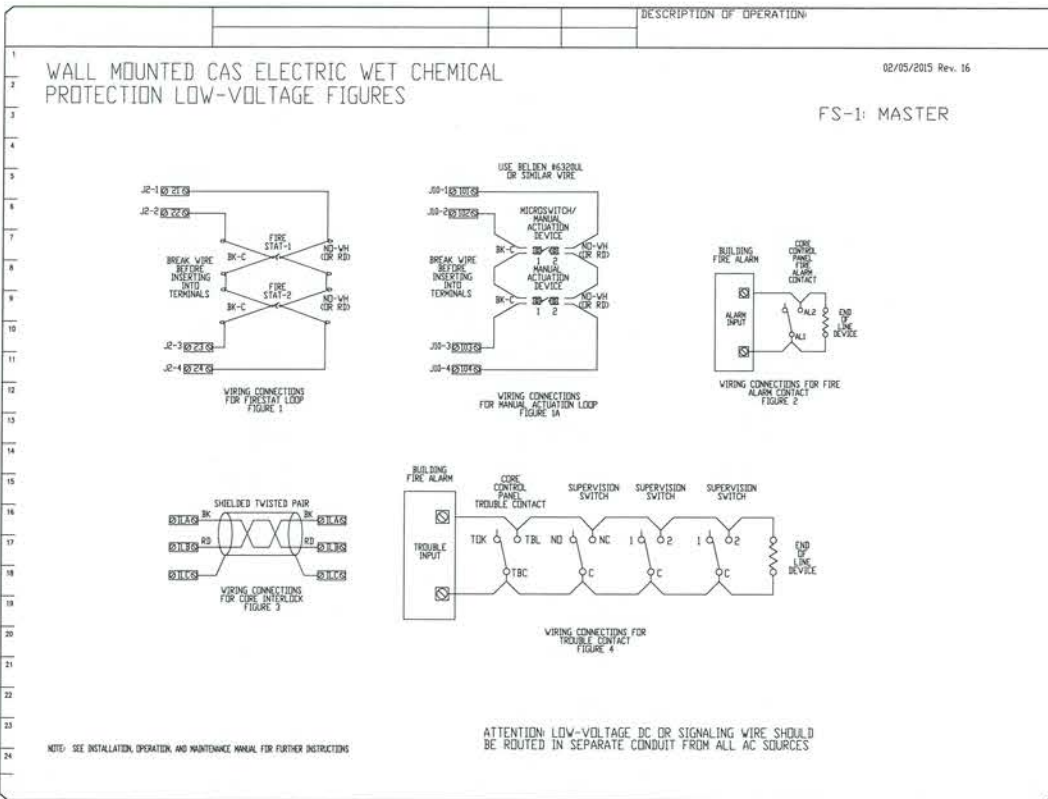
Rightous Kitchen  
 390 E St Charles Rd,  
 Lombard, IL, 60148

DATE: 2/7/2022  
 DWG.#: 5313595  
 DRAWN BY: WEM  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING



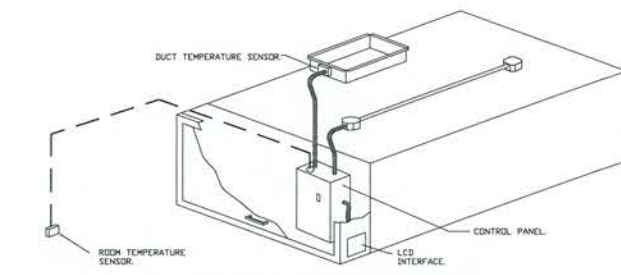






**DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:**

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBES 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:
  - ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  - INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  - VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - WIRING DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  - AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDs.



**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 403.2.8.
- 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 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.

**REVISIONS**

NO.	DESCRIPTION	DATE

**Recon-air**  
www.econair.com

**Chicago Foodservice Division**  
1120 Charleston Drive, St. Charles, IL, 60174 PHONE: (630) 377-2611 FAX: (619) 516-8738 EMAIL: reg55@econair.com

Rightous Kitchen  
390 E St Charles Rd,  
Lombard, IL, 60148

DATE: 2/7/2022

DWG.#: 5313595

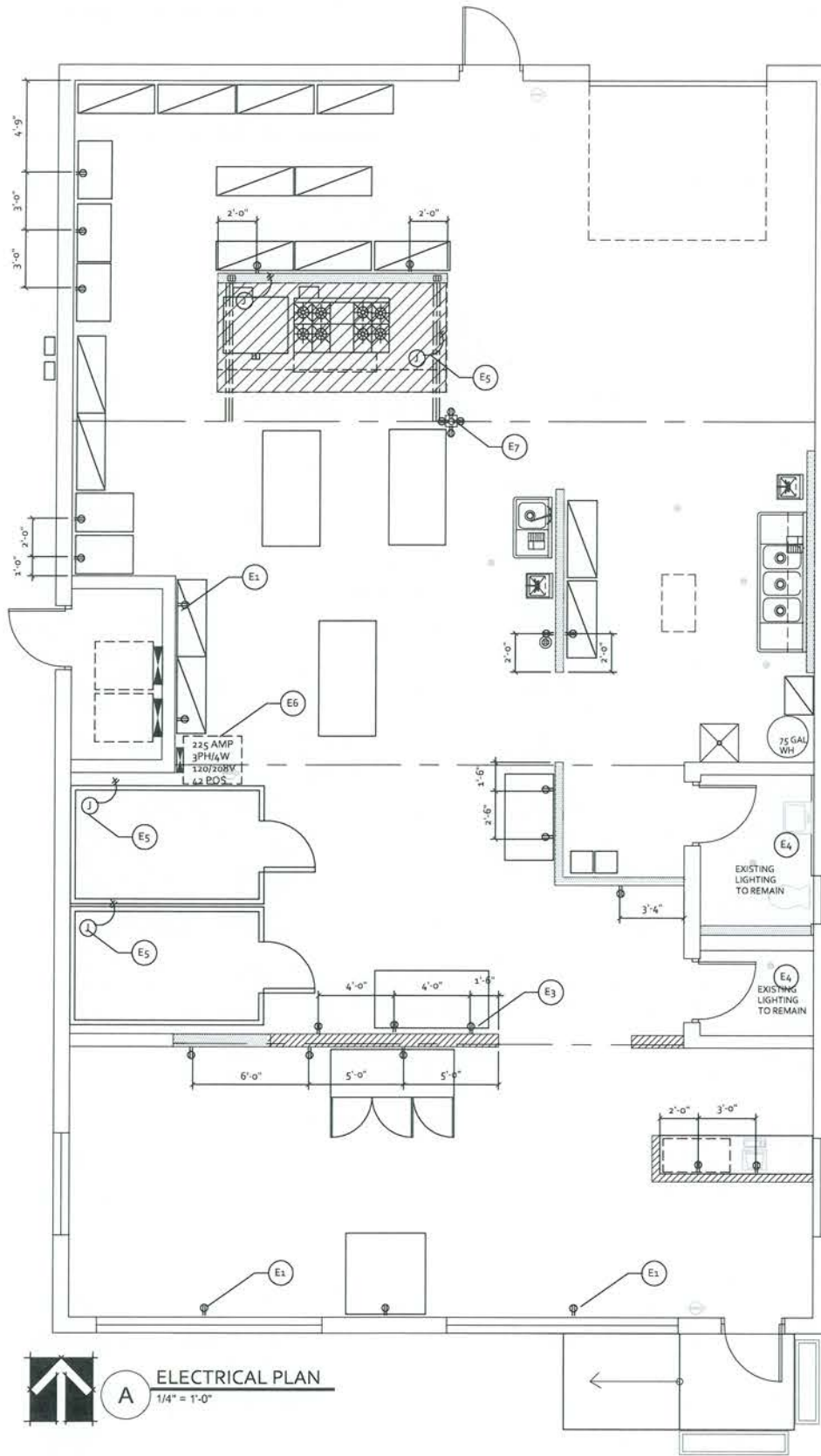
DRAWN BY: WEM

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

MASTER DRAWING

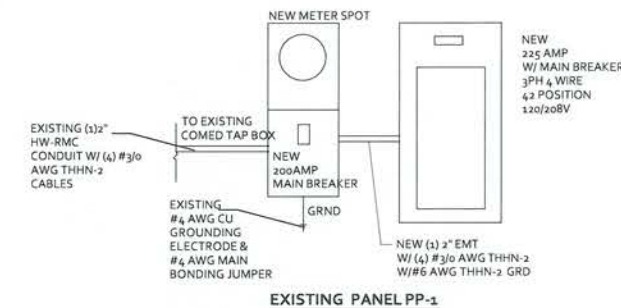
SHEET NO. 6





**LEGEND**

- EXIT SIGN/EM COMBO UNIT WITH 90 MIN. BATTERY BACK-UP. MAX 5WATTS PER SIDE
- EXIT SIGN WITH 90 MIN. BATTERY BACK-UP. MAX 5WATTS PER SIDE
- EMERGENCY LIGHTING W/ 90 MIN BATTERY BACK-UP
- FIRE EXTINGUISHER
- DUPLEX OUTLET
- 110V QUAD OUTLET
- DEDICATED OUTLET
- 110V RECESSED FLOOR OUTLET
- DATA/PHONE OUTLET PROVIDE 3/4\" CONDUIT STUB UP ABOVE CEILING- LOW VOLTAGE INSTALL BY OTHERS.
- 2'x4\" 120V 35W LAY-IN LED LIGHT FIXTURE WITH COVERED LENSES-REPLACE EXISTING FIXTURES WITH NEW. ADJUST LOCATION AS NEEDED
- 6\" LED CAN LIGHT 13W
- 50CFM EXHAUST FAN UNIT
- NEW HVAC SUPPLY DIFFUSER
- NEW HVAC RETURN DIFFUSER
- OCCUPANCY SENSOR-VERIFY/PROVIDE AT EXISTING RESTROOM/JAN CLOSET/ STORAGE ROOMS



**ELECTRICAL NOTES:**

1. WHERE CIRCUIT CONDUCTORS ARE SPLICED IN A JUNCTION BOX, ANY ASSOCIATED EQUIPMENT GROUNDING CONDUCTORS (EGC) SHALL BE BONDED (PIGTAILED) TO THE BOX. NEC 250.148
2. PROPER CLEARANCES FOR THE ELECTRICAL PANEL SHALL BE MAINTAINED PER NEC 110.26
3. AT LEAST (1) 120V 15 OR 20AMP RECEPTACLE SHALL BE INSTALLED ABOVE THE TOP OF A SHOW WINDOW AND FOR EACH 12' LINEAR FEET OR MAJOR FRACTION THEREOF MEASURED HORIZONTALLY AT ITS MAXIMUM WIDTH. VERIFY AND/OR PROVIDE.
4. TYPE AC, TYPE MC, AND ROMEX ARE PROHIBITED FROM USE.

**ELECTRICAL NOTES**

- E1. PROVIDE TYPICAL DUPLEX/QUAD OUTLET. ALL OUTLETS LOCATED AT EXISTING MASONRY WALLS AND OR TO EXISTING WALK-IN-COOLER TO BE SURFACE MOUNTED. TYPICAL OUTLET HEIGHT IS 18\" UNLESS NOTED OTHERWISE.
- E2. PROVIDE MERCHANTISE OUTLETS AT CEILING LEVEL ABOVE WINDOWS.
- E3. PROVIDE POWER AT EQUIPMENT LOCATIONS AS SHOWN. SHUNT TRIP BREAKER REQUIRED FOR ANY/ALL ELECTRIC UNDER HOOD. SEE MANUF. SPEC SHEET FOR INSTALLATION REQUIREMENTS.
- E4. EXISTING RESTROOM OUTLETS/FAN/LIGHTING TO REMAIN- NO WORK
- E5. PROVIDE JUNCTION BOX AT EQUIPMENT LOCATIONS AS SHOWN.
- E6. NEW 225 AMP 120/208V ELECTRICAL SERVICE PANEL
- E7. COORDINATE WITH CARPENTER FOR PADDED OUT COLUMN AT THIS LOCATION FOR POWER POLE INSTALL

PANEL PP-1													
SERVICE: 120/208 V, 3PH													
MFR: CUTLER-HAMMER		MAIN BREAKER: 200 AMP MAIN BREAKER				LOCATION: WEST WALL				MOUNTING: SURFACE			
TYPE: NEW		LOCATION: TOP				SOURCE: FEEDER				DWG. NO.: E-1.0			
BUS: 200 AMP.													
BRANCH CIRCUIT	VOLT - AMPS			BREAKER	CKT.	BUS			BREAKER	VOLT - AMPS			BRANCH CIRCUIT
	A	B	C			A	B	C		A	B	C	
RTU-1	2912			2 40 1				2 1 20					
RTU-1		2912		3				4 1 20					
ROOFTOP GFI			180	1 20 5				6 1 20			385		OUTDOOR SIGNAGE
HOOD-EXHAUST FAN	900			1 30 7				8 1 100	8400				CONV OVEN
HOOD-EXHAUST FAN		900		9				10		8400			CONV OVEN
HOOD-LIGHTS/AUX			40	1 20 11				12		8400			CONV OVEN
HOLDING CABINET	1440			1 20 13				14					SHUNT TRIP
HOLDING CABINET		1440		1 20 15				16					
KITCHEN LIGHTING		384		1 20 17				18					
PICKUP/AREA LIGHTING	384			1 20 19				20 1 20	1200				AIR COOLER
GENERAL KITCHEN OUTLETS		1080						22					
GENERAL KITCHEN OUTLETS/POLE			720	1 20 23				24					
W.I.C DEDICATED	4600			1 20 25				26 1 20	360				WINDOW OUTLETS
W.I.C DEDICATED		1900		1 20 27				28 1 20	360				FRONT COUNTER OUTLETS
UNISEX OUTLET/FAN			4600	1 20 29				30 1 20		1032			2DR ATOSA FREEZER
MUA-1	895			2 30 31				32					
MUA-1		895		33				34					
REACH IN FREEZER			1032	1 20 35				36					
REACH IN FREEZER			1032	1 20 37				38					
REACH IN FREEZER			1032	1 20 39				40 1 20		480			EMERGENCY LITES/SIGNAGE
3 DOOR MERCHANTISER			2200		41			42					
VOLT - AMP TOTAL	12165	9079	9156						9960	9340	9717		CONNECTED AMPS
													163 AMPS
TOTAL AMPS SHOWN AT 100% LOAD FACTOR- ACTUAL AMPS LESS THAN 130AMPS FOR RESTAURANT USE													

**ISSUES AND REVISIONS :**

NO.	BY:	DATE:	DESCRIPTION:
1	BG	2-5-22	BID PLANS

**NOTE TO BUILDING DEPARTMENT:**  
 THESE DOCUMENTS (PLANS & SPECIFICATIONS) ARE VALID FOR PERMITS ONLY WHEN THE ARCHITECT'S ORIGINAL SEAL AND SIGNATURE APPEARS AND IS AFFIXED, AND UNLESS OTHERWISE PROVIDED IN WRITING ARE INTENDED AS A PERMIT SUBMITTAL FOR ONE (1) BUILDING ONLY.  
 © BR Design & Architecture 2022

**INTERIOR REMODEL  
 RIGHTEOUS KITCHEN  
 TO BE LOCATED AT  
 390 E. ST CHARLES ROAD  
 LOMBARD, IL**

**BR DESIGN & ARCHITECTURE**

ONE TRANS AM PLAZA DRIVE SUITE #120  
 OAKBROOK TERRACE IL 60181  
 PHONE: 708-508-7281

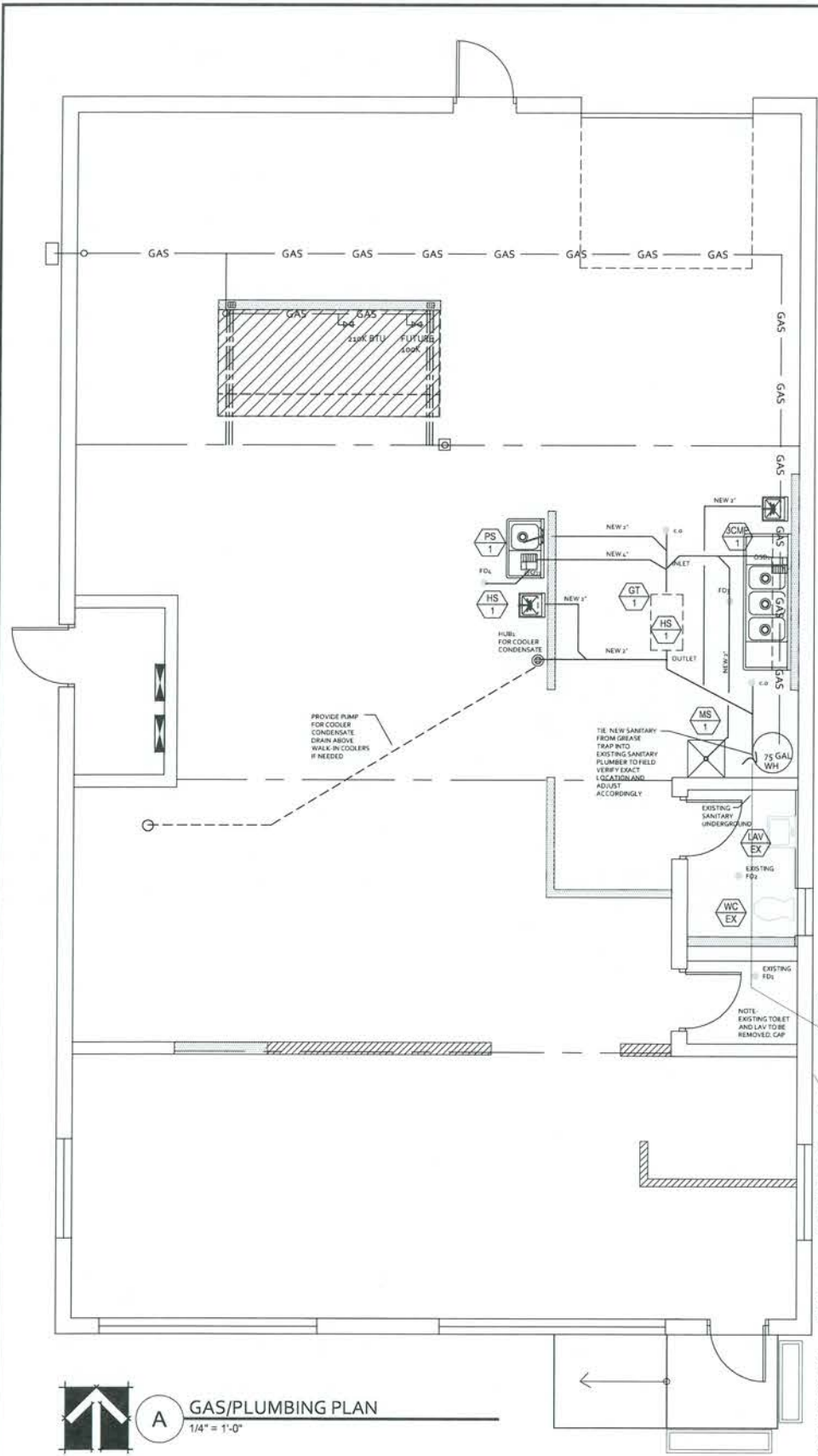
PROJECT ARCHITECT: DATE: 2-5-22  
 BG  
 DRAFTPERSON: SCALE:  
 BG  
 APPROVED: USER NAME  
 BG  
 PREPARED FOR: RIGHTEOUS KITCHEN  
 LOCATION: 390 E ST CHARLES RD LOMBARD, IL  
 JOB NUMBER: EXP 12/30/22

© BR Design & Architecture 2021  
 Copyright 2021, BR Design & Architecture These plans are protected under copyright laws of the United States and foreign countries, and are to be used only for the construction and repair and remodeling of the structure or structures defined in the contract between the Architect and the Owner. Any use of these plans to construct, remodel or repair additional structures constitutes a violation of the Architect's copyright of these plans and is prohibited.



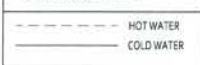




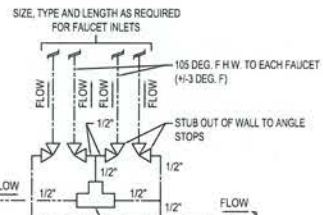


**A GAS/PLUMBING PLAN**  
1/4" = 1'-0"

- NOTE:**
1. 3/4" AIR CHAMBERS ON ALL RISERS
  2. 1/2" AIR CHAMBERS ON ALL FIXTURES
  3. SHUT OFF VALVES ON ALL FIXTURES
  4. WH W/ APPROVED TEMP. & PRESSURE RELIEF VALVE



**\*\*NOTE\*\* PLASTIC PLUMBING IS ALLOWED AND MUST BE INSTALLED IN ACCORDANCE TO THE ILLINOIS PLUMBING CODE**



**2 TYPICAL WATER PIPING AT LAVATORY**  
A-4.0 SCALE: NONE

- NOTE:**
1. UNDERGROUND AND UNDERFLOOR WASTE MIN. 4"
  2. UNDERGROUND AND UNDERFLOOR VENT MIN. 2"
  3. ALL FLOOR DRAINS SHALL BE INDIVIDUALLY VENTED
  4. SUPPLY: 1/2" COPPER ABOVE GROUND, 1/2" COPPER BELOW GROUND
  5. WATER TEMP FOR LAVS AND HAND SINKS - 130 DEGREES
  6. GREASE INTERCEPTOR REQUIREMENTS SHALL BE DONE IN ACCORDANCE TO SUBPART "E" SECTION 890.530 OF THE ILLINOIS STATE PLUMBING CODE.
  7. deleted
  8. PROVIDE "P" TRAPS FOR ALL FLOOR FIXTURES. MAX 24" FROM FIXTURE TO TRAP WEIR
  9. WATER SUPPLY AND WASTE ARE NOT PERMITTED IN EXTERIOR WALLS OR OTHER UNHEATED SPACES.
  10. WET VENTING NOT PERMITTED
  11. WATER PIPING TO SODA GUN AND SIMILAR EQUIPMENT TO BE INSTALLED BY A LICENSED PLUMBER AND THE MATERIAL TO COMPLY WITH APPENDIX A TABLES OF THE ILLINOIS PLUMBING CODE.
  12. deleted
  13. SCHEDULE 40 PVC IS ALLOWED FOR DRAIN/WASTE AND VENT LINES (INTERIOR ONLY)
  14. UNDERGROUND DRAIN AND RELATED PIPING SHALL BE INSTALLED IN SCHEDULE 40 MATERIAL
  15. PROVIDE A FULL SIZE MAIN VENT STACK FOR THE BUILDING DRAIN VENTED TO ROOF.
  16. DOUBLE COMBINATIONS WYE & BENDS SHALL BE LIMITED TO WHERE AND HOW THEY SHALL BE INSTALLED
  17. PROVIDE A CLEANOUT AT THE BASE OF EACH VENT STACK. A CLEANOUT SHALL BE PROVIDED AT, OR NO MORE THAN 4 FT ABOVE THE BASE OF EACH VERTICAL WASTE OR SOIL STACK. 890.420e
  18. PROVIDE ISOLATION SHUT OFF VALVES WHICH PERMIT THE WATER SUPPLY TO ALL EQUIP. AND/OR FIXTURES, IN EACH SEPARATE ROOM, TO BE SHUT OFF WITHOUT INTERFERING WITH THE WATER SUPPLY TO ANY OTHER ROOM.
  19. CAP ALL UNUSED DRAINS AND WASTE LINES WITH 1/2" FT OF MAIN SO AS TO NOT CREATE DEAD ENDS
  20. IF ABOVE CEILING SPACE IS USED FOR SUPPLY OR RETURN AIR, PVC IS NOT ALLOWED FOR WASTE AND VENT PIPING. THE MATERIALS WITHIN ALL PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 & A SMOKE INDEX OF NOT MORE THAN 50.
  21. BACKFLOW PROTECTION REQUIRED ON ALL KITCHEN EQUIPMENT SUPPLIED WITH DOMESTIC WATER. SECTION 890.130 ALSO PROVIDE BACKFLOW PREVENTION TO SEPARATE THE UNIT FROM THE REST OF THE BUILDING. MAIN WATER FEEDS LOCATED IN EXISTING UTILITY ROOM. (PC 890.130)
  22. STACK TEST REQUIRED ON UNDERGROUND AND ABOVE GROUND WASTE AND VENT PIPING.
  23. 75 BAR TEST OR WATER PRESSURE TEST REQUIRED ON WATER PIPING AT TIME OF ROUGH INSPECTION.
  24. ALL EXISTING PLUMBING THAT MAY POSE A HEALTH OR SAFETY HAZARD MUST BE REVISED TO MEET ILLINOIS PLUMBING CODE AND LOCAL COUNTY ORDINANCES.
  25. ALL NEW PLUMBING MUST MEET ILLINOIS PLUMBING CODE AND LOCAL COUNTY ORDINANCES.

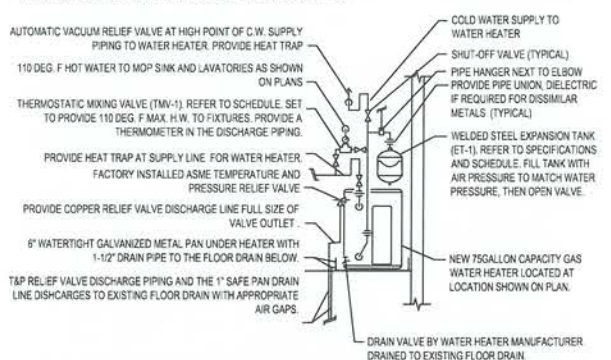
- Section 890.530 Grease Interceptor Requirements**
- Plumbing systems for institutions or commercial establishments in which grease, fats, culinary oils or similar waste products from kitchens or food processing areas are wasted, or in which grease, fats or culinary oils are wasted in connection with utensil, vat, dish or floor cleaning processes shall include grease interceptors. All waste lines and drains carrying grease, fats or culinary oil in these establishments shall be directed to one or more interceptors. (See Appendix E Illustrations A and B)
- a) All required grease interceptors shall comply with the following:
    - 1) Material and Covers. Grease interceptors shall be constructed of durable, corrosion-resistant materials and shall have water-tight covers securely fastened in place.
    - 2) Minimum Size. A grease interceptor installed on the same floor as the fixture shall have one-half the liquid holding capacity of the fixture. A grease interceptor located on a floor below the fixture shall have 60 percent of the liquid holding capacity of the fixture. To determine the liquid holding capacity in gallons of a plumbing fixture, the length is multiplied by the width by the height in inches and divided by 231. Where two or more sinks or receptacles are connected to an interceptor the liquid holding capacity shall be based on the combined volume of the fixtures served.
    - 3) No grease interceptor shall receive the discharge from a food waste disposal.
    - 4) The flow rate of the interceptor shall be sufficient to handle the maximum demand of the connected system.
    - 5) All interceptors shall be installed in an accessible location to permit the convenient removal of the lid and internal contents.
    - 6) All interceptors shall be designed and installed with proper venting so that they do not become air bound. (See Appendix E Illustration C.)
  - b) Prohibited Type. Water cooled grease interceptors are prohibited.

**PLUMBING FIXTURE SCHEDULE**

MARK	DESCRIPTION
WC EX	RESTROOM WATER CLOSETS - EXISTING ELONGATED TOILET AMERICAN STANDARD OR SIMILAR WITH WATER SAVER 1.6 GAL. FLUSH, HANDICAPPED ELONGATED BOWL, PRESSURE-ASSISTED SIPHON JET FLUSH ACTION, SPEED CONNECT TANK/BOWL COUPLING SYSTEM, VITREOUS CHINA AND 16-1/2" RIM HEIGHT. MEETS ANS I 112.19.2 AND A111.1 REQUIREMENTS. PROVIDE WITH NO. 305 D18 SUPPLY PIPE. PROVIDE TANK WITH THE TRIP LEVER ON THE PROPER SIDE TO ALLOW FLUSH ACTION FROM THE OPEN SIDE OF THE TOILET AREA. ● TOILET SEAT TO BE ANTI-MICROBIAL.
LAV EX	RESTROOM LAVATORY - EXISTING WALL MOUNTED LAV SINK PROVIDE TRUE BRO. LAV GUARD IF NEEDED UNDER-SINK PROTECTIVE PIPE COVERS (OR COVERS) ON ALL PIPING UNDER LAVATORY. PROVIDE GRID DRAIN WITH OFFSET TAILPIECE TO LOCATE P-TRAP TIGHT TO WALL. ● FAUCET ASSEMBLY - EXISTING ONE PIECE BODY WITH POL. SHED CHROME FINISH, AERATOR WITH 2.2 GPM FLOW RESTRICTOR, SINGLE LEVER HANDLE AND LIFT-ON/PUSH-OFF ACTION.
HS 1	JOHN BOOS & CO. MODEL PHS-W-1410 DEEP DRAWN WITH STAMPED RIM TO PREVENT SPILLAGE 1/2" HOT AND COLD WATER SUPPLY. SPLASH MOUNT GOOSE NECK FAUCET WITH WRIST BLADES PROVIDE S.S. SPLASH GUARDS EACH END.
SCMP 1	REGENCY 4003180218 3 COMPARTMENT STAINLESS STEEL BOWL WITH STAINLESS STEEL LEGS (2) 18" DRAINBOARDS AND 8" BACK SPLASH. 1/2" HOT AND COLD WATER SUPPLY. GOOSENECK FAUCET W/ WRIST BLADES PROVIDE LEVER STYLE DRAIN HANDLES AND STAINLESS STEEL SHELVING UNIT ABOVE FULL LENGTH
MS 1	NEW MUSTEE 19F SINK BASIN ● FAUCET ASSEMBLY - CHROME PLATED WITH VACUUM BREAKER, 3/4" HOSE OUTLET, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND FOUR ARM HANDLES. ● ACCESSORIES - HOSE AND HOSE BRACKET PROVIDE MOP HANGER BRACKET VINYL RIM BUMPER GUARD
PS 1	REGENCY 4003181818KFT 1 COMPARTMENT PREP SINK STAINLESS STEEL BOWL WITH STAINLESS STEEL LEGS (1) 18" DRAINBOARD AND 6" BACK SPLASH. 1/2" HOT AND COLD WATER SUPPLY. GOOSENECK FAUCET W/ WRIST BLADES PROVIDE LEVER STYLE DRAIN HANDLES AND STAINLESS STEEL SHELVING UNIT ABOVE FULL LENGTH
GWH 1	NEW GAS FIRED WATER HEATER - 75 GALLON W/ EXPANSION TANK AND REQUIRED SHUT OFF VALVES
GT 1	NEW WATTS QX75 OR APPROVED EQUAL TO 75 GALLONS PER MINUTE LIQUID HOLDING CAPACITY W/ 4" INLET AND OUTLET NOTE: MAINTAIN 6" CLEARANCE TO ACCESS LID

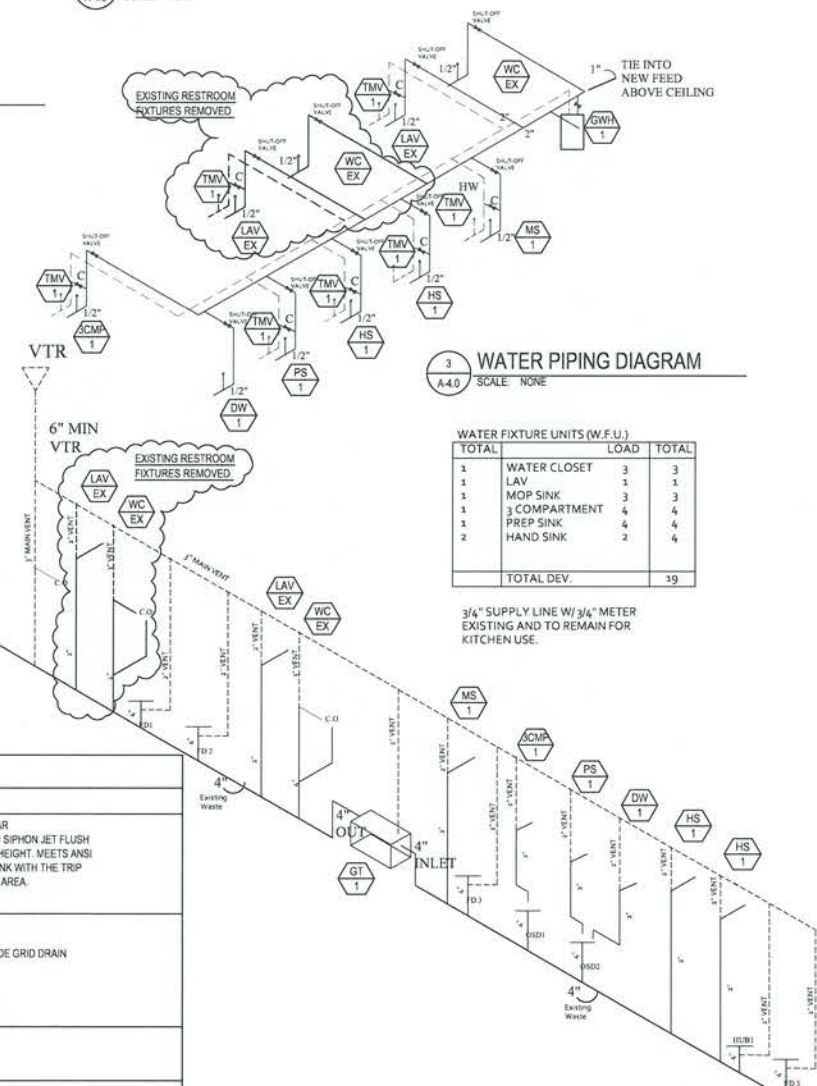
ALL FIXTURES ABOVE ARE RECOMMENDATIONS. ALTERNATE MODELS AND STYLES ARE ALLOWED AS LONG AS THEY ARE EQUAL AND MEET CODE

**NOTE TO PLUMBING CONTRACTOR:**  
WATER METERS ARE LOCATED WITHIN EXISTING UTILITY ROOM. THERE WERE NO RPZ VALVES INSTALLED. PROVIDE NEW RPZ VALVE AT DOMESTIC WATER FEED TO UNIT. INSTALL AS PER VILLAGE REQUIREMENTS.



REFER TO SPECIFICATIONS, SCHEDULES AND NOTES FOR MORE INFORMATION. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. VERIFY ALL CONNECTION SIZES AND LOCATIONS PER MANUFACTURERS REQUIREMENTS. ADJUST TO SUIT FIELD CONDITIONS. REFER TO PIPING DIAGRAMS FOR PIPE SIZES. PROVIDE SEISMIC STRAP OR BRACING (IF AS REQUIRED BY LOCAL AUTHORITIES). PROVIDE HEAT TRAPS WITH FIRST 1 FT OF HOT AND COLD SUPPLY PIPES TO BE INSULATED WITH 2" OF MATERIAL W/ 27BTU/IN.

**1 WATER HEATER DETAIL**  
A-4.0 SCALE: NONE



**WATER FIXTURE UNITS (W.F.U.)**

TOTAL	LOAD	TOTAL
1	WATER CLOSET	3
1	LAV	1
1	MOP SINK	3
1	3 COMPARTMENT	4
1	PREP SINK	4
2	HAND SINK	2
	<b>TOTAL DEV.</b>	<b>19</b>

3/4" SUPPLY LINE W/ 3/4" METER EXISTING AND TO REMAIN FOR KITCHEN USE.

**3 WATER PIPING DIAGRAM**  
A-4.0 SCALE: NONE

**5 DRAIN, WASTE & VENT PIPING DIAGRAM**  
A-4.0 SCALE: NONE

**GREASE TRAP CALCULATION**

SCMP SINK - 18X20X12/21" = 16.6 X 3 COMPARTMENTS = 49.8 GALLONS  
PREP SINK - 18X18X14/21" = 19.6 GALLONS  
MOP SINK - 24X20X14/21" = 29 GALLONS  
TOTAL = 98.4 / 2 = 49 GALLONS

**BR Design & Architecture 2021**  
Copyright, 2021, BR Design & Architecture. These plans are protected under copyright laws of the United States and foreign countries, and are to be used only for the construction and repair and remodeling of the structure or structures defined in the contract between the Architect and the Owner. Any use of these plans to construct, remodel or repair additional structures constitutes a violation of the Architect's copyright of these plans and is prohibited.

**ISSUES AND REVISIONS:**

NO.	DATE	DESCRIPTION
1	2-5-22	ISSUES AND REVISIONS

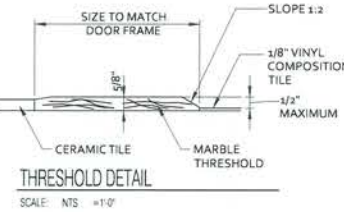
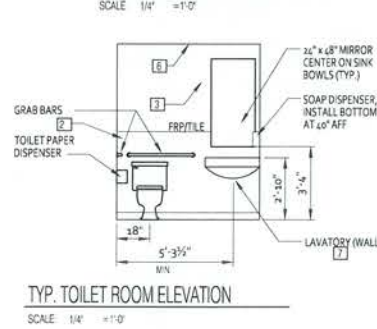
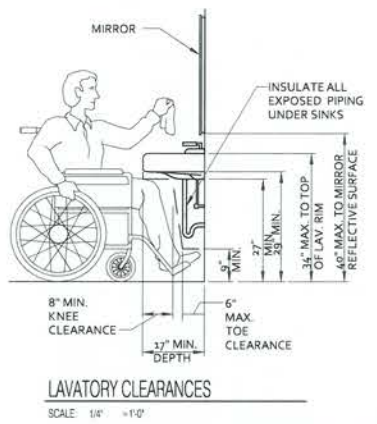
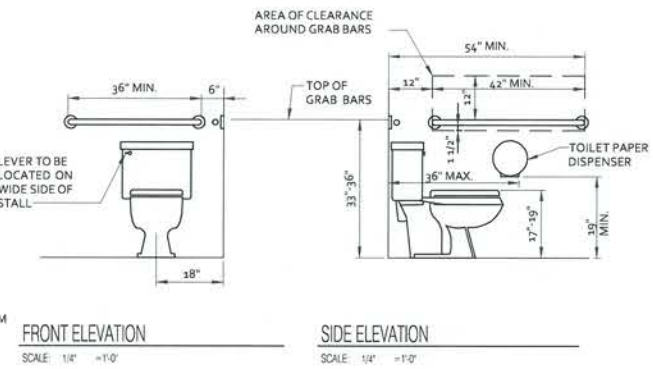
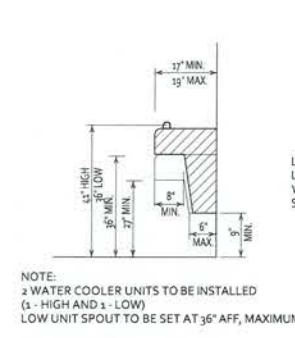
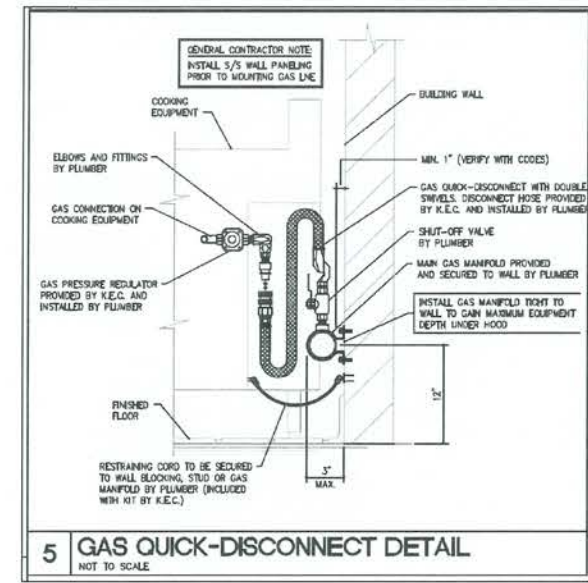
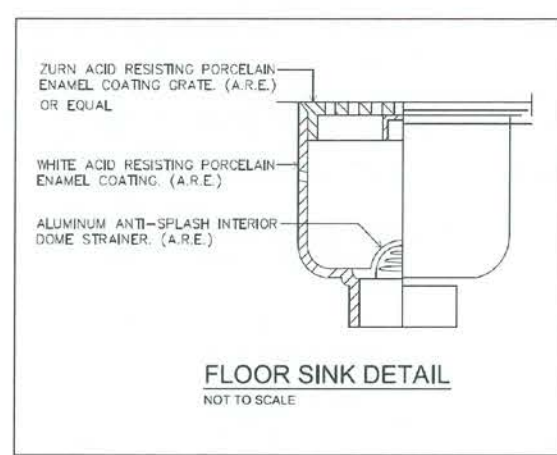
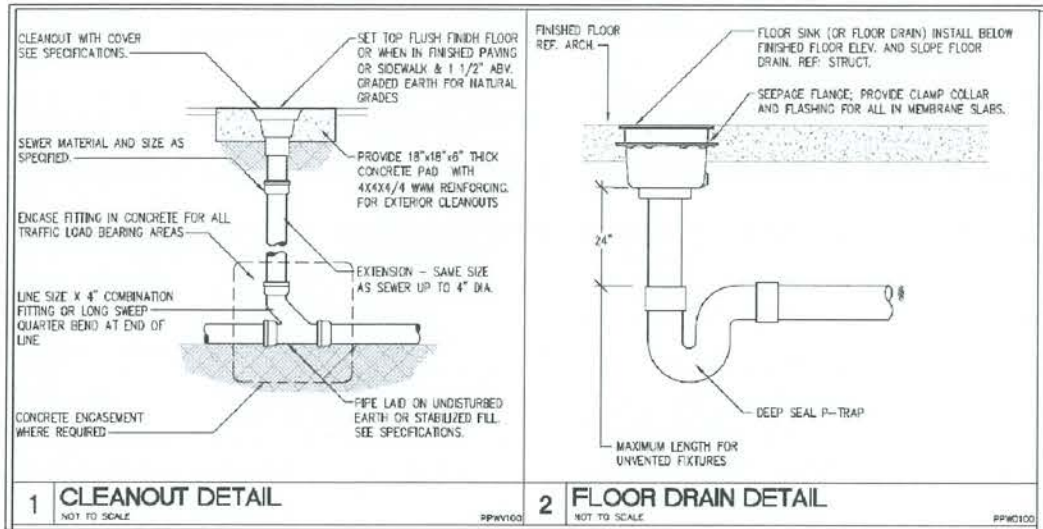
**NOTE TO BUILDING DEPARTMENT:**  
THESE DOCUMENTS (PLANS & SPECIFICATIONS) ARE VALID FOR PERMITS ONLY WHEN THE ARCHITECT'S ORIGINAL SEAL AND SIGNATURE APPEARS AND IS AFFIXED, AND UNLESS OTHERWISE PROVIDED IN WRITING ARE INTENDED AS A PERMIT SUBMITTAL FOR ONE (1) BUILDING ONLY.  
BR Design & Architecture 2022

**INTERIOR REMODEL  
RIGHTEOUS KITCHEN  
TO BE LOCATED AT  
390 E. ST CHARLES ROAD  
LOMBARD, IL**

**BR DESIGN & ARCHITECTURE**  
ONE TRANS AM PLAZA DRIVE - SUITE #120  
OAKBROOK TERRACE, IL - 60181  
PHONE: 708-508-7281

PROJECT ARCHITECT: DATE: 2-5-22  
DRAFTSPERSON: SCALE:  
APPROVED: **BRIAN L. GOULD**  
PREPARED FOR: **RIGHTEOUS KITCHENS**  
LOCATION: 390 E. ST CHARLES ROAD, LOMBARD, IL  
JOB NUMBER: EXP-113/2022





**TOILET ROOM SIGNAGE**  
A. PLACE "ADA" TOILET ROOM SIGNAGE ON WALL ADJACENT TO THE LATCH SIDE. MOUNTING HEIGHT SHALL BE 60" ABOVE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3 IN. OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

**BATHROOM SPECIFICATION SPECIFICATIONS**

**MATERIALS**

A. MIRROR TO BE "BRADLEY OR APPROVED EQUAL TO MEET SPECIFICATIONS

B. GYPSUM BOARD IN TOILET ROOMS TO BE WATER RESISTANT.

**TOILET ACCESSORIES**

A. GRAB BARS SHALL BE 1 1/2" O.D., 18 GAUGE, TYPE 304 STAINLESS STEEL, WITH A SATIN FINISH. BARS SHALL BE DESIGNED FOR WALL TO WALL MOUNTING WITH CONCEALED ANCHORS.

**ACCEPTABLE MANUFACTURERS:**

AMERICA SPECIALTIES, INC., BOBRICK, MCKINNEY/PARKER AND BRADLEY CORPORATION, OR APPROVED EQUAL.

B. SOAP DISPENSERS, DIAPER DISPENSER, ALUMINUM DOUBLE ROLL PAPER HOLDER FOR EACH WATER CLOSET AND TOWEL HOLDERS, ETC. TO BE SUPPLIED, AND INSTALLED BY GENERAL CONTRACTOR.

C. FOLDED TOWEL DISPENSER SUPPLIED, AND INSTALLED BY GENERAL CONTRACTOR. INSTALLED PER ADA SPECS.



**ISSUES AND REVISIONS:**

NO.	BY	DATE	DESCRIPTION
1	BG	2-5-22	ISSUE

**NOTE TO BUILDING DEPARTMENT:**  
THESE DOCUMENTS (PLANS & SPECIFICATIONS) ARE VALID FOR PERMITS ONLY WHEN THE ARCHITECT'S ORIGINAL SEAL AND SIGNATURE APPEARS AND IS AFFIXED, AND UNLESS OTHERWISE PROVIDED IN WRITING ARE INTENDED AS A PERMIT SUBMITTAL FOR ONE (1) BUILDING ONLY.

CBR Design & Architecture 2022

**INTERIOR REMODEL  
RIGHTEOUS KITCHEN  
TO BE LOCATED AT  
390 E. ST CHARLES ROAD  
LOMBARD, IL**



ONE TRANS AM PLAZA DRIVE - SUITE #120  
OAKBROOK TERRACE, IL 60181  
PHONE: 708-508-7281

PROJECT ARCHITECT: BG DATE: 2-5-22  
DRAFTPERSON: BG SCALE:  
APPROVED: BG  
PREPARED FOR: RIGHTEOUS KITCHEN  
LOCATION: 390 E. ST CHARLES ROAD, LOMBARD, IL  
JOB NUMBER:

**BRIAN L. GOULD**  
001-021417  
STATE OF ILLINOIS  
EXPIRES 11/30/22

©BR Design & Architecture 2021  
Copyright, 2021, BR Design & Architecture. These plans are protected under copyright laws of the United States and foreign countries, and are to be used only for the construction and repair and remodeling of the structure or structures defined in the contract between the Architect and the Owner. Any use of these plans to construct, remodel or repair additional structures constitutes a violation of the Architect's copyright of these plans and is prohibited.

SHEET NUMBER:  
**P-1.1** OF