RESTAURANT REQUIREMENTS

•HOOD EXHAUST FAN(S) SHOULD BE AS FAR FROM LEASE LINE AS POSSIBLE AT ROOF (5' MIN. PREFERRED). ENSURE THAT THEY ARE NO LESS THAN 10' FROM ANY ADJACENT TENANT INTAKE OR RTU.

•INSTALL GREASE GUARD(S) AROUND UPBLAST EXHAUST FAN(S) FOR HOODS AT ROOF.

•PROVIDE WATERPROOFING MEMBRANE ALONG ALL KITCHEN WALLS THAT ABUT LEASE LINE/DEMISING WALLS, UP TO 8' A.F.F. AND 8' AWAY FROM WALL, BEHIND/UNDER FINISHES (MAPEI, RED GARD, OR SIMILAR), EVEN BEHIND WATER RESISTANT FINISHES. PROVIDE PHOTOGRAPHIC EVIDENCE OF INSTALLATION.

•SEAL AROUND ALL REAR DOORS, ESPECIALLY IN KITCHEN AREAS.

•COOLERS/FREEZERS TO BE 4" MINIMUM FROM DEMISING (LEASE LINE) AND EXTERIOR WALLS, AND 2' MINIMUM FROM TENANTS INTERIOR WALLS, WITH MOISTURE AND MOLD RESISTANT WALL BOARD AND WATERPROOFING MEMBRANE BEHIND.

•PROVIDE STRUCTURAL REINFORCEMENT FOR THE HOOD EXHAUST FAN (ROOF) OPENINGS.

•GREASE REFILL AND WASTE IS PREFERRED TO BE ON A CLOSED LOOP SYSTEM (SIMILAR TO RESTAURANT TECHNOLOGIES), REFILL AND REMOVAL BOX SHALL BE RECESSED WITHIN REAR WALL.

MECHANICAL REQUIREMENTS

•DISTRIBUTE WEIGHT OF HVAC SYSTEMS UNIFORMLY, TO NOT OVERLOAD WOOD/STEEL JOISTS/TRUSSES.
•HVAC EQUIPMENT SHOULD NOT BE VISIBLE. SCREEN OR LOCATE ACCORDINGLY.
•REINFORCE ROOF OPENINGS WITH 4X4X1/4 STEEL ANGLE ON ALL SIDES MINIMALLY, OR PER AHJ.
•MAXIMUM FLEXIBLE DUCT LENGTH ALLOWED 6'-0".
•BALANCING DAMPENERS SHALL BE AT ALL BRANCH LINES.
•NO DUCT BOARD ALLOWED.
•PROVIDE ROOF WALK PADS ON ALL SIDES OF REGULARLY MAINTAINED ROOF TOP EQUIPMENT, INCLUDING RTUS.
•RETURN AIR TO BE FULLY DUCTED, OR TENANT TO REPLACE/ENSURE ALL MEP (EQUIPMENT, DUCTWORK, CONDUIT, PIPING, ETC.) IS PLENUM RATED. LL MAKES NO GUARANTY THAT EXISTING MEP IS PLENUM RATED.
•ALL HARD CEILINGS TO HAVE AN ACCESS HATCH DIRECTLY BELOW MEP EQUIPMENT (RTU'S, TRANSFORMERS, EXHAUST FANS, WATER METER/SUBMETER, ETC.) FOR SERVICING.
•NO EXPOSED ELECTRICAL CONDUIT FOR ROOF TOP EQUIPMENT. HOWEVER, IF UNAVOIDABLE, IT SHOULD BE ATTACHED TO UNIT(S) AND NOT ATTACHED TO CURB OR CURB FLASHING, NOR RUN FREELY ACROSS ROOF. MOUNT CONVENIENCE OUTLETS TO EQUIPMENT.
•REFRIGERANT LINES TO PENETRATE ROOF ADJACENT TO ROOF UNITS (RTUS, CONDENSERS, HEAT PUMPS, ETC.), THROUGH SEPARATE ROOF PENETRATION, USING LL'S REQUIRED ROOFER. THE LINES MAY SHARE A SINGLE PENETRATION, BUT HAVE MINIMAL RUN LENGTHS AND BE IN A NEAT AND ORGANIZED MANNER.
•ROUTE CONDENSATE LINES BELOW ROOF (WITHIN CURB OPENING OR PITCH PAN) IMMEDIATELY ADJACENT TO THE ROOF EQUIPMENT, HELD TIGHT TO DECK, INSULATE, AND TO DISCHARGE WITHIN DEMISED PREMISES. ANY PORTION OF THE CONDENSATE DRAIN CONNECTION ABOVE ROOF DECK TO BE COPPER (MAY TRANSITION TO PVC ONCE BELOW DECK). DO NOT PENETRATE SIDE OF CURB.
•INSULATE ALL CONDENSATE & REFRIGERANT LINES TO PREVENT SWEATING, DRIPPING ONTO CEILING.

SCOPE OF WORK

PROVIDE TWO NEW ROOF TOP UNITS WITH GAS HEAT OF 5 TON CAPACITIES EACH. PROVIDE NEW DUCTWORK AND PROVIDE NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEMS.

PROVIDE TWO NEW RESTROOM EXHAUST FANS. PROVIDE ONE NEW KITCHEN EXHAUST HOOD, ONE NEW HOOD EXHAUST FAN & ONE NEW MAKEUP AIR UNIT FOR HOOD.PROVIDE ONE NEW EXHAUST FAN ABOVE THE MOP SINK.

COORDINATE WITH GC ANY ADDITIONAL REFRIGERATION WORK REQUIRED AND WORK REQUIRED ON KITCHEN EXHAUST SYSTEMS AND WITH GC AND PLUMBING CONTRACTOR PROVIDING CONDENSATE LINES FOR MECHANICAL EQUIPMENT AND GAS FLUE FOR WATER HEATERS.

CITY OF NEWINGTON BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE 2018 CONNECTICUT STATE BUILDING CODE BASED ON 2015 INTERNATIONAL BUILDING CODE, AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

1. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
2. VENTILATION FOR ALL AREA SHALL COMPLY WITH INTERNATIONAL MECHANICAL CODE 2015 CHAPTER 4.
3. AS PER 408.2.5 OF INTERNATIONAL ENERGY CONSERVATION CODE 2015, CONSTRUCTION DOCUMENT SHALL REQUIRE THAT, WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER.
4. AS PER 408.3.2 OF INTERNATIONAL ENERGY CONSERVATION CODE 2015 CONSTRUCTION DOCUMENT SHALL REQUIRE THAT AN OPERATING MANUAL AND A MAINTAINED MANUAL BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL ENGINEER TO PROVIDE THE REQUIRED SPECIAL INSPECTIONS AND TESTS.
5. TESTS WILL BE CONDUCTED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS. THE TESTS WILL SHOW COMPLIANCE WITH INTERNATIONAL BUILDING CODE 2015 REQUIREMENTS AS OUTLINES IN SECTION [BC 1704].
6. THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.
7. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE INTERNATIONAL MECHANICAL CODE 2015:
   A. VENTILATION SYSTEM BALANCING IMC 2015 - 403.3.1.5
   B. SMOKE CONTROL SYSTEMS - IMC 2015 - 513.3
8. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
   A. STANDARDS OF HEATING - IMC 2015 - 309.1
   B. DUCT CONSTRUCTION AND INSTALLATION- IMC 2015 - 603
   C. AIR INTAKES, EXHAUSTS AND RELIEF - IMC 2015 - 401.5
   D. AIR FILTERS - IMC 2015 - 605
   E. MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS - IMC 2015 - 513
   F. GAS FIRED EQUIPMENT - FUEL GAS CODE
9. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
10. VENTILATION FOR ALL AREA SHALL COMPLY WITH IMC 2015-401.
11. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY IMC 2015 - 403.3
12. SMOKE DETECTION SYSTEMS SHALL BE INSTALLED AND SEQUENCED TO FOLLOW CONTROLS OPERATIONS WITH THE REQUIREMENTS OF SECTION IMC 2015 - 606 TO CLOSE DAMPERS AND AUTOMATICALLY STOP THE FAN.
13. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
14. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
15. ALL MECHANICAL SYSTEM SHALL BE COMMISSIONED AS PER 2015 IECC 408.2.4, 408.2.5.4, 408.2.1, 408.2.5.
16. A COMMISSIONING PLAN SHALL BE DEVELOPED BY A LICENSED DESIGN PROFESSIONAL, MECHANICAL ENGINEER OR APPROVED AGENCY.
17. PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE LICENSED DESIGN PROFESSIONAL, ELECTRICAL ENGINEER, MECHANICAL ENGINEER OR APPROVED AGENCY AND PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT AS PER IECC 2015, C408.2.4.
18. AIR ECONOMIZERS SHALL UNDERGO A FUNCTIONAL TEST TO DETERMINE THAT THEY OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

ROOF TOP UNIT SCHEDULE

TAG	RTU-1	RTU-2
UNIT	GAS HEAT	GAS HEAT
MANUFACTURER	CARRIER	CARRIER
MODEL	48HCEB06B2 (OR EQUIVALENT)	
STATUS	NEW	NEW
MOUNTING	ROOF	ROOF
NOMINAL CAPACITY	5.0 TON	5.0 TON
TOTAL COOLING BTUH'S	60,400	60,400
SENSIBLE COOLING BTUH'S	48,000	48,000
EER	12.45	12.45
SEER	15.20	15.20
HEATING BTUh's (IN)	115,000	115,000
HEATING BTUh's (OUT)	90,000	90,000
THERMAL EFF (%)	81%	81%
SUPPLY AIR (CFM)	2000	2000
OUTDOOR AIR (CFM)	420	240
VOLTAGE	208/3/60	208/3/60
MCA (A)	32	32
MOCP (A)	45	45
WEIGHT (lbs)	900	900

INCLUDED SYSTEM OPTIONS FOR NEW RTU:
A. PROVIDE FULL PERIMETER 14" HIGH ROOF CURB.
B. PROVIDE DUCT MOUNTED SMOKE DETECTOR IN RETURN SIDE.
C. PROVIDE 2" MERV-8 FILTERS - FACTORY.
D. PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS - FACTORY.
E. CONTRACTOR TO PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT FOR RTU WITH HUMIDITY CONTROL.
F. HAIL GUARD - FLD.
G. PROVIDE NON FUSED DISCONNECT SWITCH-FACTORY.
H. PROVIDE WITH TUBE & FIN COIL SYSTEM - FACTORY.
I. PROVIDE WITH DRAIN PAN OVERFLOW SWITCH-FACTORY.
J. PROVIDE WITH STANDARD CAP AND PHASE MONITOR SYSTEM - FACTORY..
K. PROVIDE WITH GFCI FLD WIRED FACTORY INSTALLED
L. PROVIDE HIGH STATIC DIRECT DRIVE
M. UNIT TO BE PROVIDED WITH LOW AMBIENT OPERATION CAPABILITIES.
N. PROVIDE LOW-LEAK ECONOMIZER WITH FDD (FAULT DETECTION & DIAGNOSTICS).
O. PROVIDED HOT GAS BYPASS SYSTEM, THEN CAPACITY OF HOT GAS BYPASS SHALL BE LIMITED TO 50% OF TOTAL UNIT CAPACITY.
P. PROVIDE RELIEF DAMPER WITH RELIEF HOOD.
Q. AIR ECONOMIZERS TO MEET THE REQUIREMENTS FOR DESIGN CAPACITY, CONTROL SIGNAL, VENTILATION CONTROLS, HIGH-LIMIT SHUT-OFF, INTEGRATED ECONOMIZER CONTROL, AND PROVIDE A MEANS TO RELIEVE EXCESS OUTSIDE AIR DURING OPERATION.
R. RTU SHOULD BE PROVIDED WITH 100% MODULATING ENTHALPY ECONOMIZER WITH WEATHER HOOD.

RTU NOTES:
1. INSTALL AS PER MANUFACTURERS SPECIFICATIONS AND MAINTAIN ALL SERVICE CLEARANCES.
2. PROVIDE CONDENSATE DRAIN 'P' TRAP MINIMUM 3" DEEP OR TWICE THE TOTAL STATIC PRESSURE WHICHEVER IS GREATER.
3. COMPRESSOR SHALL HAVE A MINIMUM 5 YEAR WARRANTY ALL OTHER EQUIPMENT SHALL HAVE , MINIMUM 1 YEAR WARRANTY.
4. RTU IS BASED ON AHRI STANDARD CONDITIONS OF 80°F DB, 67°F WB INDOOR ENTERING AIR TEMPERATURE AND 95°F DB ENTERING AIR FOR OUTDOOR UNIT.
5. MUST MEET THE EER'S MINIMUM EFFICIENCY CODE REQUIREMENTS.
6. PROVIDE: CARRIER - HOT GAS REHEAT WITH ASSOCIATED CONTROLS AND SENSORS FOR DEHUMIDIFICATION CONTROL.

CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT ETC. PRIOR TO ORDERING AND BID.

MAKEUP AIR UNIT SCHEDULE

TAG	MUA-1(N)
UNIT	GAS FIRED
MANUFACTURER	ECON-AIR
MODEL	EA1-D.250-15D
STATUS	NEW
MOUNTING	ROOF
GAS TYPE	NATURAL
INPUT BTU'S	136725
OUTPUT BTU'S	125787
BURNER EFFICIENCY	92%
SUPPLY AIR (CFM)	1900@0.375" W.C ESP
HP	1.50
FLA	4.4
VOLTAGE	208/3/60
MCA (A)	5.5
MOCP (A)	15
WEIGHT (lbs)	567

INCLUDED SYSTEM OPTIONS FOR NEW MUA - 1(N) :
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. 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.
8. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.
9. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE 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

OCCUPANCY CALCULATION PER 2015 MECHANICAL CODE ,TABLE 403.3.1.1

OFFICE	38 SQ. FT.	@5 PEOPLE/1000SQ.FT.	1 PEOPLE
DINING ROOM	570 SQ. FT.	@70 PEOPLE/1000SQ.FT.	40 PEOPLE
SERVICE AREA	243 SQ. FT.	@70 PEOPLE/1000SQ.FT.	18 PEOPLE
		TOTAL	59 PEOPLE

(OCCUPANCY FOR VENTILATION CALCULATIONS IS CONSIDERED AS PER ARCHITECTURAL LAYOUT)

VENTILATION REQUIREMENTS PER 2015 MECHANICAL CODE ,TABLE 403.3.1.1

OUTSIDE AIR CALCULATIONS				
OFFICE	38 SQ. FT. X	0.06 CFM/SQ. FT. =		2 CFM
	1 PEOPLE. X	5.0 CFM/PEOPLE. =		5 CFM
KITCHEN	443 SQ. FT. X	0.18 CFM/SQ. FT. =		80 CFM
	5 PEOPLE. X	7.5 CFM/PEOPLE. =		38 CFM
SERVICE AREA	243 SQ. FT. X	0.18 CFM/SQ. FT. =		44 CFM
	5 PEOPLE. X	7.5 CFM/PEOPLE. =		38 CFM
DINING AREA	570 SQ. FT. X	0.18 CFM/SQ. FT. =		103 CFM
	30 PEOPLE. X	7.5 CFM/PEOPLE. =		225 CFM
OUTSIDE AIR REQUIRED				535 CFM
EXHAUST AIR CALCULATIONS				
KITCHEN	443 SQ. FT. X	0.7 CFM/SQ. FT. =		310 CFM
SERVICE AREA	243 SQ. FT. X	0.7 CFM/SQ. FT. =		170 CFM
RESTROOM-1	70 CFM PER FIXTURE	X NO. OF FIXTURE(#1)	=	70 CFM
RESTROOM-2	70 CFM PER FIXTURE	X NO. OF FIXTURE(#1)	=	70 CFM
MOP SINK				70 CFM
EXHAUST AIR REQUIRED				690 CFM
AIR BALANCE				
RTU-1(N) & RTU-2(N) -O/A PROVIDED				660 CFM
MUA-1(N)-O/A PROVIDED				1900 CFM
KEF-1(N)				-2250 CFM
TEF-1(N)				-70 CFM
TEF-2(N)				-70 CFM
EF-1(N)				-70 CFM
BUILDING PRESSURE (BAROMETRIC RELIEF)				+100 CFM

FAN SCHEDULE

DESIGNATION	KEF-1(N)	TEF-1(N)	TEF-2(N)	EF-1(N)
STATUS	NEW	NEW	NEW	NEW
QUANTITY	1	1	1	1
MANUFACTURER	ECON-AIR	GREENHECK	GREENHECK	GREENHECK
MODEL	EADU180H	SP-A90	SP-A90	SP-A90
CFM	2250@1.0" W.C ESP	70@0.3" W.C ESP	70@0.3" W.C ESP	70@0.3" W.C ESP
HP	1.5	1.0	1.0	1.0
FLA(A)	6.5	0.17	0.17	0.17
WEIGHT (LBS)	220	17	17	17
VOLTAGE	208/3/60	115/1/60	115/1/60	115/1/60

OPTIONS FOR KEF-1(N):
1. GREASE BOX.
2. 2 YEAR PARTS WARRANTY.

OPTIONS FOR TEF-1(N) & TEF-2(N) :
1. FANS SHALL BE INTERLOCKED WITH LIGHTS IN RESTROOMS AND CONTROLLED VIA OCC. SENSOR.
2. COORDINATE ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
3. PROVIDE BACK DRAFT DAMPER.

OPTIONS FOR EF-1(N):
1. PROVIDE BACK DRAFT DAMPER.

DIFFUSER SCHEDULE

MANUFACTURER	TITUS	TITUS	TITUS	TITUS
DESIGNATION	A	A1	C	R
USE	SUPPLY	SUPPLY	SUPPLY	RETURN
MODEL	TDC-AA	PAS	250-AA(2/3 WAY)	56FL
MOUNTING	HARD CEILING	HARD CEILING	CEILING	SEE PLAN
LOCATION	ANY	KITCHEN	BATHROOM /STORAGE	ANY
FACE SIZE	24" X 24"	24"X24"	12"X12"	AS SHOWN
NECK SIZE	TO MATCH DUCT	TO MATCH DUCT	TO MATCH DUCT	TO MATCH DUCT
FRAME TYPE	LAY IN	FLANGED	FLANGED	LAY IN
FINISH	WHITE	WHITE	WHITE	WHITE
NOISE CRITERIA	<30	<30	<30	<30
ACCESSORIES	VOLUME DAMPER	OPPOSED BLADE DAMPER	VOLUME DAMPER	VOLUME DAMPER

AIR CURTAIN SCHEDULE

DESIGNATION	AC-1(N)
STATUS	NEW
QUANTITY	1
MANUFACTURER	MARS
MODEL	LPV236-1UA-OB
CFM	900
HP	1/6
AMPS(A)	2.4
LENGTH(IN)	36
VOLTAGE	115/1/60

NOTES :
1. PROVIDE MANUFACTURER RECOMMENDED ACCESSORIES.
2. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENT.

GENERAL NOTES

A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET. PAY SPECIAL ATTENTION TO THE RESPONSIBILITY SCHEDULE. WORK DESIGNATED ON SCHEDULE SHALL BE CONSIDERED INCLUDED IN YOUR SCOPE OF WORK AND CONTRACT AMOUNT.

B. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.

C. DRAWINGS/DETAILS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, AND CHECK/COORDINATE DRAWINGS OF ALL TRADES.

D. COORDINATE WITH THE WORK OF OTHERS SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DRIPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

E. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

F. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

G. USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL EXPOSED WIRING IN THE PLENUM SHALL BE PLENUM RATED.

H. VERIFY LOCATION OF PERMISSIBLE NEW STRUCTURAL ROOF PENETRATIONS AND ADAPT THE REQUIRED DUCTS ACCORDINGLY. THE OPENINGS MUST BE LOCATED USING A REBAR LOCATOR, TRYING TO LEAVE A TRANSVERSE BAR WITHIN 4" FROM THE OPENING. LOCATE OPENINGS AT MID-DISTANCE BETWEEN THE STEMS OF THE DOUBLE TEE AND LONGITUDINAL REINFORCEMENT SHALL NEVER BE CUT. CALL THE ARCHITECT'S OFFICE IN CASE OF UNEXPECTED DIFFICULTIES.

I. ALL A/C AND FRESH AIR ROUND EXPOSED DUCTS WILL BE SPIRAL GALVANIZED AND READY FOR PAINTING. ALL RECTANGULAR DUCTS OVER CEILINGS MAY BE SHEET METAL WITH EXTERNAL INSULATION. ALL SG SUPPLY GRILLS WILL BE DOUBLE DEFLECTION WITH VOLUME CONTROLS.

J. G.C. SHALL CONTRACT LANDLORD-APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ALL ROOF PENETRATIONS TO MAINTAIN ROOFING WARRANTY.

K. IF APPLICABLE CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR KITCHEN VENTILATION SYSTEM INCLUDING TYPE 1 HOOD AND FOR THE WALK-IN COOLER & FREEZER.

L. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

M. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE AND PROVIDE COPY TO LL.

N. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.

MECHANICAL SYMBOLS

EXHAUST FAN
SUPPLY OR OUTSIDE AIR DUCT
RETURN OR EXHAUST AIR DUCT
INSULATED RIGID DUCTWORK
DUCT TRANSITION
MANUAL VOLUME DAMPER
FLEXIBLE DUCTWORK R-6.0
ROOF MOUNTED EXHAUST FAN OUTLET
ROOFTOP UNIT
PERORATED TYPE SUPPLY DIFFUSER REFER TO DIFFUSER SCHEDULE FOR SPECIFICATIONS
EXHAUST FAN WITH LIGHT
OPPOSED BLADE DAMPER
DUCT SMOKE DETECTOR
PROGRAMMABLE THERMOSTAT
REMOTE SENSOR
ROUND DUCT DIAMETER
CFM CUBIC FEET/ MINUTE
S/A SUPPLY AIR
BACK DRAFT DAMPER
TEMPERATURE SENSOR
HUMIDITY SENSOR
R/A RETURN AIR
SG SUPPLY GRILLE
CD CONDENSATE PIPING
(E) EXISTING
(N) NEW
SUPPLY DIFFUSER REFER TO DIFFUSER SCHEDULE FOR SPECIFICATIONS
RETURN DIFFUSER REFER TO DIFFUSER SCHEDULE FOR SPECIFICATIONS

NOTE: THIS PROJECT MAY NOT USE EVERY SYMBOL OR DEVICE APPEARING ON THIS LEGEND.

NY ENGINEERS

PROJECT

SALSA FRESCA

REVISIONS DATES:
1 22/10/31 HEALTH DEPT. COMTS.

ISSUE DATE: 11.02.22
PROJECT #: 353D.1338D
DRAWN BY: NYE
CHECKED BY: NYE

HVAC NOTES & SCHEDULES

M-1

THERMOSTATIC CONTROLS

C403.2.4.1 THERMOSTATIC CONTROLS

THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE. WHERE HUMIDIFICATION OR DEHUMIDIFICATION OR BOTH IS PROVIDED, AT LEAST ONE HUMIDITY CONTROL DEVICE SHALL BE PROVIDED FOR EACH HUMIDITY CONTROL SYSTEM.

EXCEPTION: INDEPENDENT PERIMETER SYSTEMS THAT ARE DESIGNED TO OFFSET ONLY BUILDING ENVELOPE HEAT LOSSES, GAINS OR BOTH SERVING ONE OR MORE PERIMETER ZONES ALSO SERVED BY AN INTERIOR SYSTEM PROVIDED:

1. THE PERIMETER SYSTEM INCLUDES AT LEAST ONE THERMOSTATIC CONTROL ZONE FOR EACH BUILDING EXPOSURE HAVING EXTERIOR WALLS FACING ONLY ONE ORIENTATION (WITHIN +/-45 DEGREES) (0.8 RAD) FOR MORE THAN 50 CONTIGUOUS FEET (15 240 MM); AND

2. THE PERIMETER SYSTEM HEATING AND COOLING SUPPLY IS CONTROLLED BY THERMOSTATS LOCATED WITHIN THE ZONES SERVED BY THE SYSTEM.

A. C403.2.4.1.1 HEAT PUMP SUPPLEMENTARY HEAT

HEAT PUMPS HAVING SUPPLEMENTARY ELECTRIC RESISTANCE HEAT SHALL HAVE CONTROLS THAT, EXCEPT DURING DEFROST, PREVENT SUPPLEMENTARY HEAT OPERATION WHERE THE HEAT PUMP CAN PROVIDE THE HEATING LOAD.

B. C403.2.4.1.2 DEADBAND

WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 5°F (2.8°C) WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM.

EXCEPTIONS:

1. THERMOSTATS REQUIRING MANUAL CHANGEOVER BETWEEN HEATING AND COOLING MODES.

2. OCCUPANCIES OR APPLICATIONS REQUIRING PRECISION IN INDOOR TEMPERATURE CONTROL AS APPROVED BY THE CODE OFFICIAL.

C. C403.2.4.1.3 SETPOINT OVERLAP RESTRICTION

WHERE A ZONE HAS A SEPARATE HEATING AND A SEPARATE COOLING THERMOSTATIC CONTROL LOCATED WITHIN THE ZONE , A LIMIT SWITCH, MECHANICAL STOP OR DIRECT DIGITAL CONTROL SYSTEM WITH SOFTWARE PROGRAMMING SHALL BE PROVIDED WITH THE CAPABILITY TO PREVENT THE HEATING SET POINT FROM EXCEEDING THE COOLING SET POINT AND TO MAINTAIN A DEADBAND IN ACCORDANCE WITH SECTION C403.2.4.1.2.

D. C403.2.4.2 OFF-HOUR CONTROLS

EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM.

EXCEPTIONS:

1. ZONES THAT WILL BE OPERATED CONTINUOUSLY.

2. ZONES WITH A FULL HVAC LOAD DEMAND NOT EXCEEDING 6,800 BTU/H (2 KW) AND HAVING A READILY ACCESSIBLE MANUAL SHUTOFF SWITCH.

E. C403.2.4.2.1 THERMOSTATIC SETBACK CAPABILITIES

THERMOSTATIC SETBACK CONTROLS SHALL HAVE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAINZONE TEMPERATURES DOWN TO 55°F (13°C) OR UP TO 85°F (29°C).

F. C403.2.4.2.2 AUTOMATIC SETBACK AND SHUTDOWN CAPABILITIES

AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CAPABLE OF BEING ADJUSTED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY SENSOR.

G. C403.2.4.2.3 AUTOMATIC START CAPABILITIES

AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.

MECHANICAL PLAN NOTES

A. PROVIDE TWO NEW 5 TON ROOF TOP UNIT WITH GAS HEAT. PROVIDE NEW DUCT SYSTEM AS SHOWN. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN AIR DUCT CONNECTIONS. INSTALL FIRE DAMPERS IN ANY FIRE WALLS AND BETWEEN FLOORS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO ROOF TOP UNIT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

B. FOR SYSTEM OVER 2,000 CFM CHECK FOR DUCT MOUNTED AIR SMOKE DETECTORS AND THAT MEET THE REQUIREMENTS OF U.L. 268A, INTERLOCKED TO SHUTDOWN ROOF TOP UNIT UPON DETECTION OF SMOKE. IF NECESSARY PROVIDE SMOKE DETECTOR WITH AN ANNUNCIATOR, ALARM AND POWER L.E.D.'S FOR VISIBLE AND AUDIBLE ALARM SIGNAL, AND VISIBLE TROUBLE SIGNAL. MOUNT ANNUNCIATOR ON ROOM SIDE OF CEILING.

C. ALL DUCTS WILL MINIMUM 26 GAUGE SHEET METAL WITH EXTERNAL DUCT WRAP INSULATION. ALL DUCTS TO BE MANUFACTURED AND INSTALLED ACCORDING TO ASHRAE AND SMACNA METAL DUCT CONSTRUCTION STANDARD, LATEST EDITION. ALL MATERIALS WILL CONFORM TO NFPA 90A. NO DUCT BOARD ALLOWED.

D. THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE TYPE. MOUNT THERMOSTAT 48" A.F.F. COORDINATE LOCATION OF THERMOSTAT.

E. ALL INTERIOR AIR DUCTS WITH INSULATION SHALL HAVE A MINIMUM OF THICKNESS OF 1.5", R-6 INSULATION. EXTERIOR AIR DUCTS TO HAVE R-12 INSULATION ACCORDING TO INTERNATIONAL ENERGY CONSERVATION CODE - 2015.

F. ALL SEAMS, JOINTS, ETC WILL BE SEALED TO MAKE AIR DUCT AIRTIGHT. PRESSURE SENSITIVE MATERIALS AND OTHERS APPROVED BY LATEST SMACNA. SEALING MATERIALS WILL BE USED.

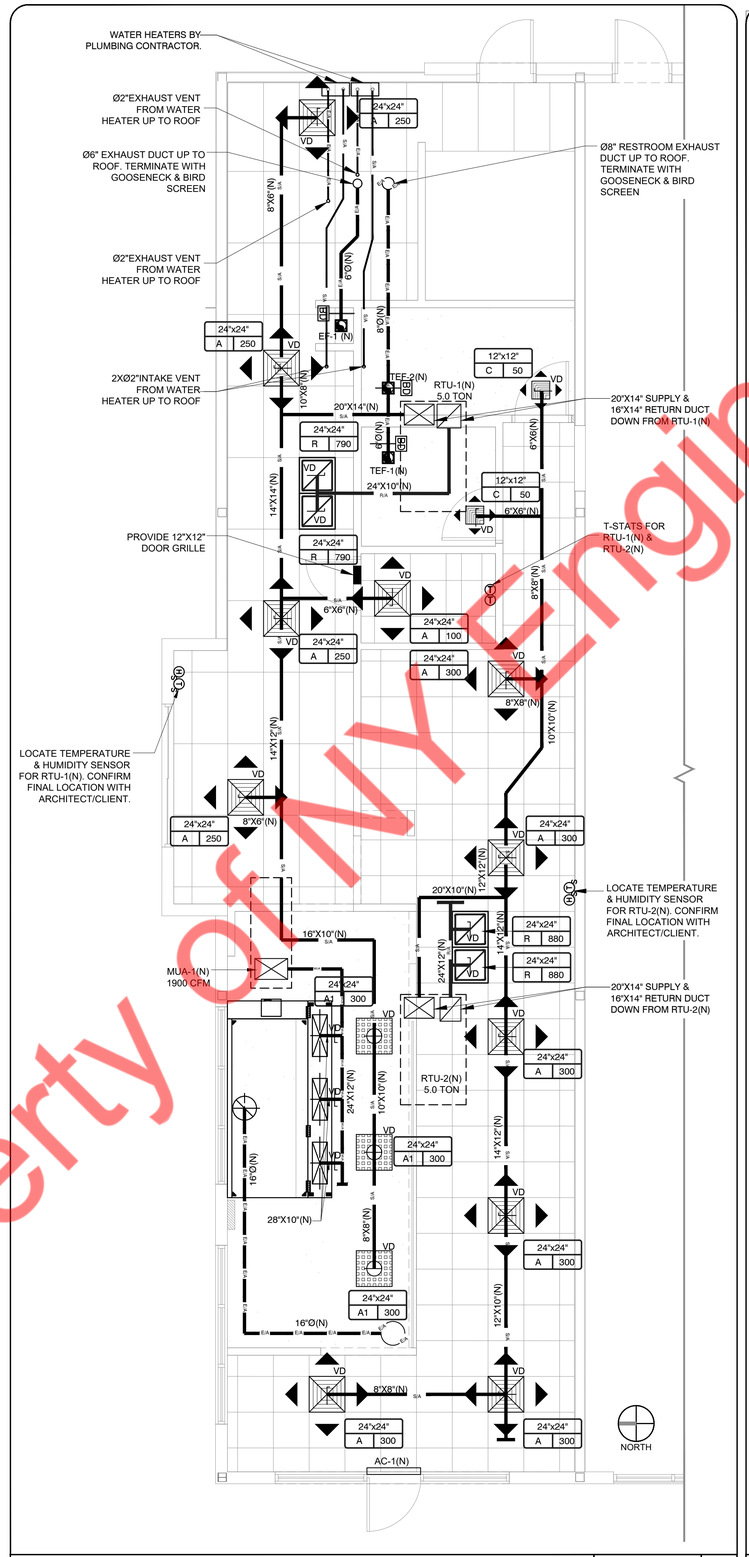
G. ALL ROOF TOP UNIT CONDENSATE DRAINS WILL BE COPPER FULL DIAMETER OF OUTLET AND WILL TERMINATE IN THE NEAREST ROOF DRAIN OR INDIRECT WASTE.

H. ALL EQUIPMENT AND MATERIALS WILL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO THE BEST PRACTICE.

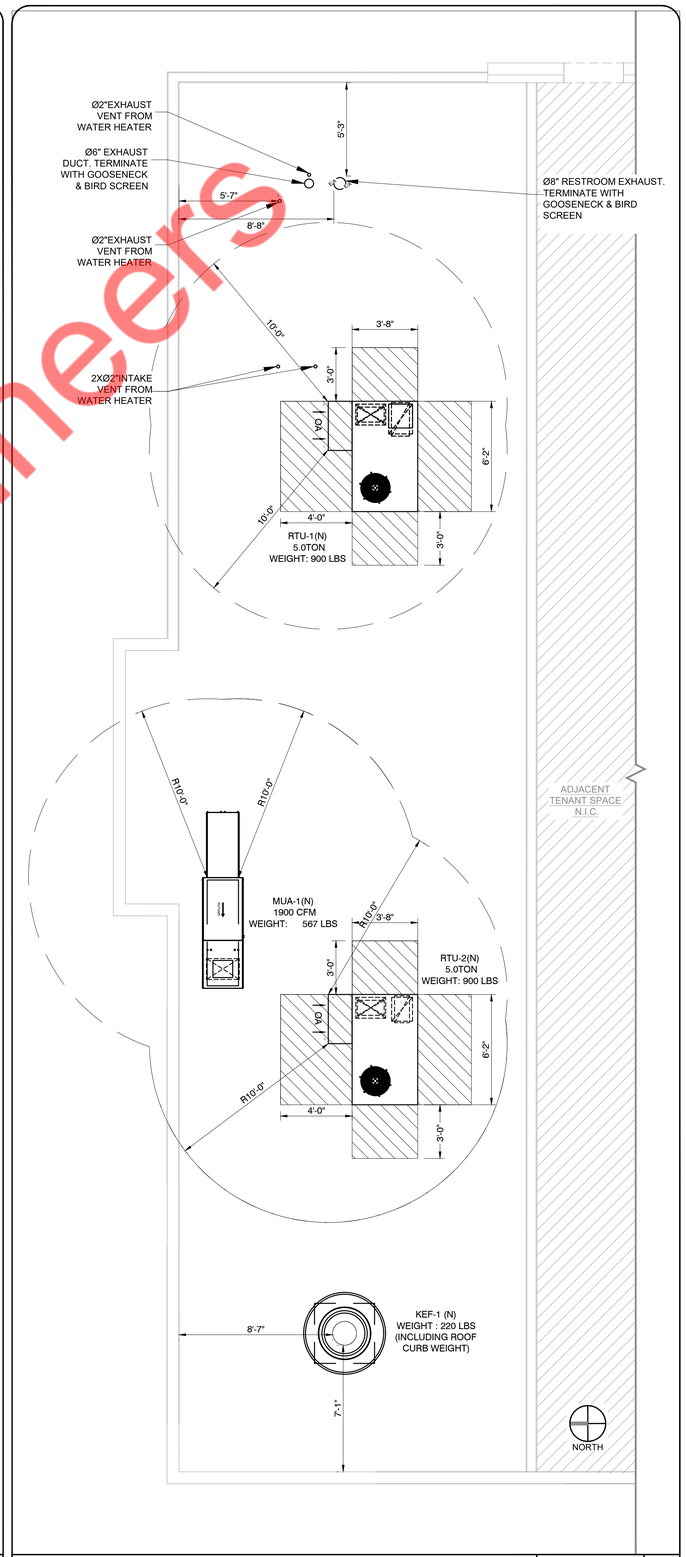
I. TESTING AND BALANCING SHALL BE DONE IN ACCORDANCE WITH IECC - 2015, SECTION C408.2.2. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (N.E.B.B.), THE ASSOCIATED AIR BALANCE COUNCIL (A.A.B.C) NATIONAL STANDARDS OR EQUIVALENT PROCEDURES.

J. HANGER ATTACHMENTS TO THE STEEL STRUCTURE WILL BE RATED POWDER ACTUATED FASTENERS, "C" CLAMPS, WELDED STUDS, CLAMP HANGERS, JOIST CLAMPS OR OTHER METHODS RECOMMENDED BY SMACNA'S "METAL AND FLEXIBLE STANDARDS", CHAPTER 4, AND WILL HAVE A MINIMUM SAFETY MARGIN OF 4:1. SUSPENDED FROM TOP CHORD OF JOISTS, NOTHING FROM DECK OR CROSS BRACING.

K. ALL HVAC CONTROLS AND CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.



HVAC FLOOR PLAN — SCALE 1/4" = 1'-0" — 1



HVAC ROOF PLAN — SCALE 1/4" = 1'-0" — 2

NY ENGINEERS

PROJECT

SALSA FRESCA

REVISIONS DATES:
1 22/10/31 HEALTH DEPT. COMTS.

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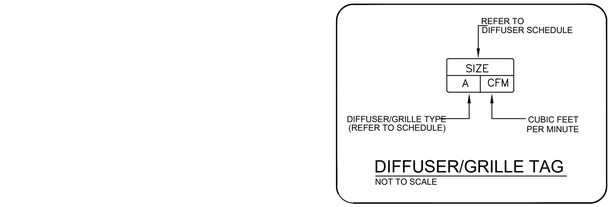
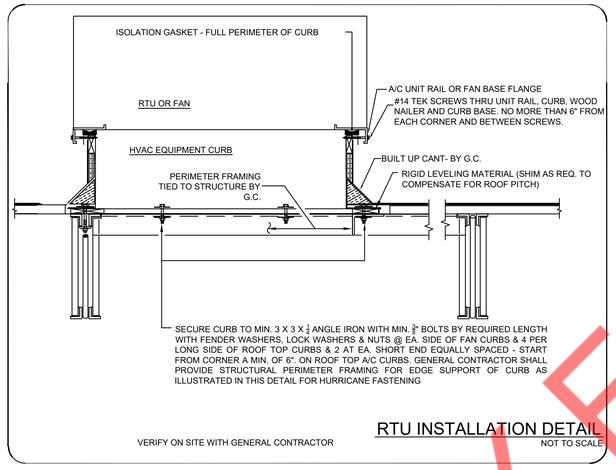
CHECKED BY: NYE

HVAC FLOOR & ROOF PLANS

M-2

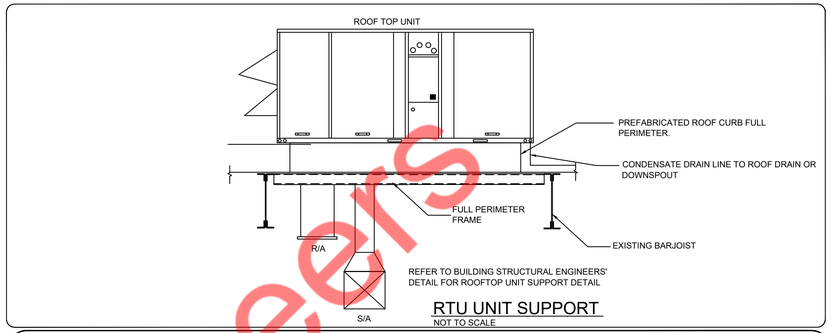


DIFFUSER/GRILLE TAG
NOT TO SCALE

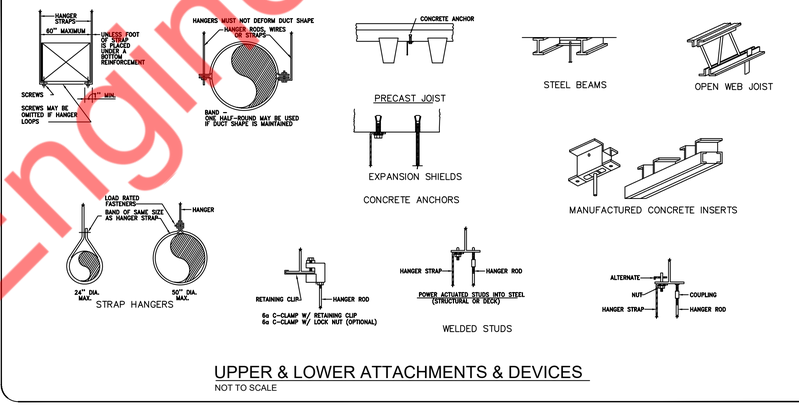


VERIFY ON SITE WITH GENERAL CONTRACTOR

RTU INSTALLATION DETAIL
NOT TO SCALE

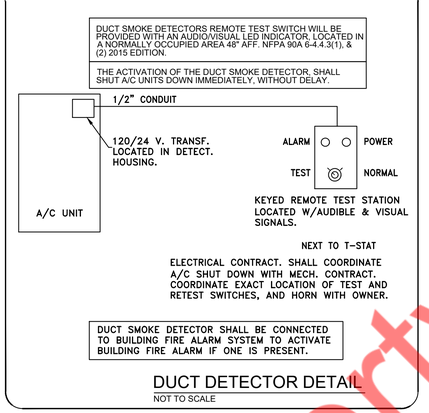


RTU UNIT SUPPORT
NOT TO SCALE

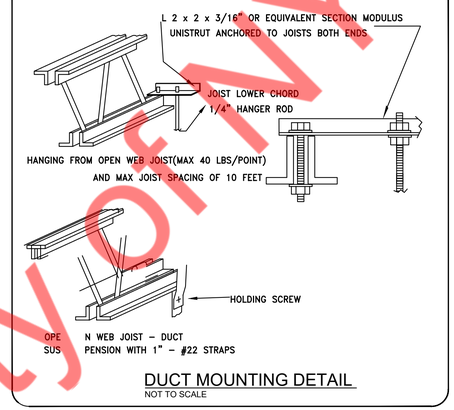


UPPER & LOWER ATTACHMENTS & DEVICES
NOT TO SCALE

ROUND GOOSENECK DETAIL AT ROOF
NOT TO SCALE

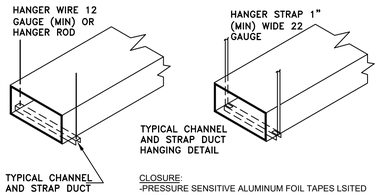


DUCT DETECTOR DETAIL
NOT TO SCALE



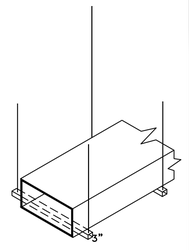
DUCT MOUNTING DETAIL
NOT TO SCALE

CHANNEL SELECTION	
DUCT WIDTH MIN. CHANNEL GUAGE MIN.	CHANNEL PROFILE
LESS THAN 18" 22 3"x 2"	
LESS THAN 30" 18 3"x 2"	



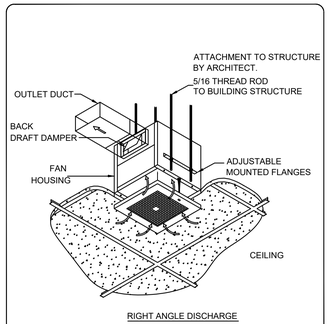
CLOSURE:
-PRESSURE SENSITIVE ALUMINUM FOIL TAPES LSITED UNDER UL 181A,
PART I (P)
- HEAT ACTIVATED ALUMINUM FOIL/SCRIM TAPES LISTED UNDER UL 181A, PART II (H)
- MASTIC AND GLASS FABRIC TAPE CLOSURE SYSTEMS LISTED UNDER UL 181A, PART III (M)

DUCT SIZE,IN.	MAXIMUM HANGER SPACING
① WIDTH 48" OR GREATER	4'–0"
② LESS THEN 48"W X 12"H	6'–0"
③ WIDTH BETWEEN 24" & 48" & HEIGHT OVER 24"	6'–0"
④ WIDTH BETWEEN 24" & 48" & HEIGHT BETWEEN 12" & 24"	8'–0"
⑤ WIDTH LESS THAN 24" & HEIGHT GREATER THAN 12"	8'–0"
DUCT REINFORCING PER SMACNA REQUIRED	

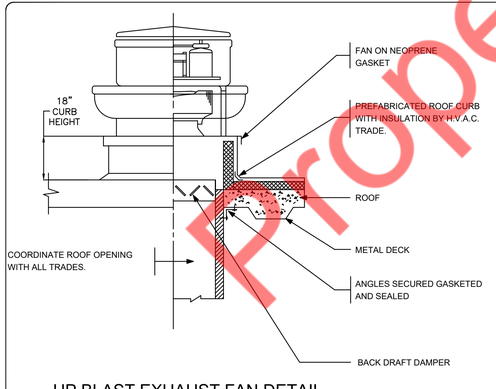


HANGER SPACING AND EXTENSION
3" WIDE CHANNELS

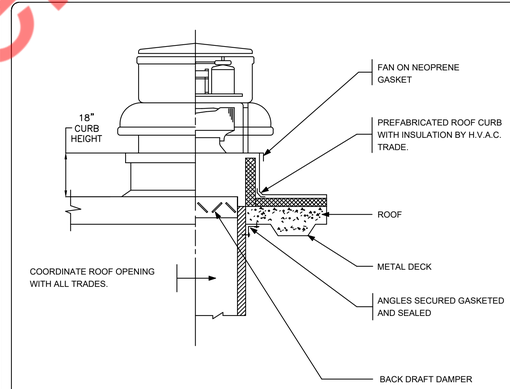
DUCT SUPPORTS
NOT TO SCALE



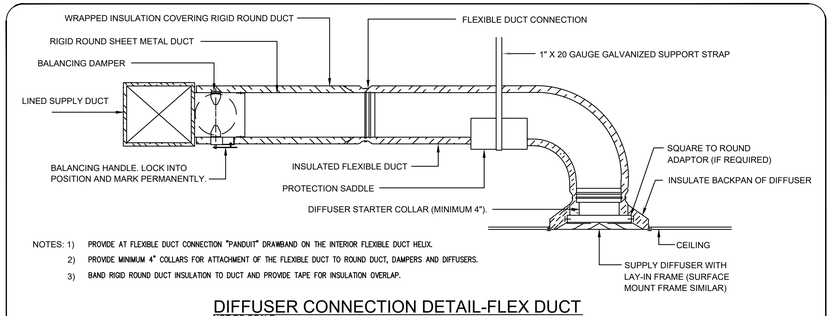
CEILING EXHAUST FAN DETAIL
NOT TO SCALE



UP BLAST EXHAUST FAN DETAIL
NOT TO SCALE



DOWN BLAST EXHAUST FAN DETAIL
NOT TO SCALE



NOTES: 1) PROVIDE AT FLEXIBLE DUCT CONNECTION "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.
2) PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
3) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

DIFFUSER CONNECTION DETAIL-FLEX DUCT
NOT TO SCALE

NY ENGINEERS

PROJECT

SALSA FRESCA

REVISIONS DATES:
1 22/10/31 HEALTH DEPT. COMTS.

ISSUE DATE: 11.02.22
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CHECKED BY: NYE

HVAC DETAILS

M-3

HOOD INFORMATION – JOB#5558867

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	27	5424 EX-2-PSP-F	ECON-AIR	10' 0"	600 DEG	I	HEAVY	225	2250			4"	16"	2250	1611	-0.737"	1900	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	27	CAPTRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	864 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	27	FIELD WRAPPER 6.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 132.00" LONG 430 SS VERTICAL.

PERFORATED SUPPLY PLENUM(S)

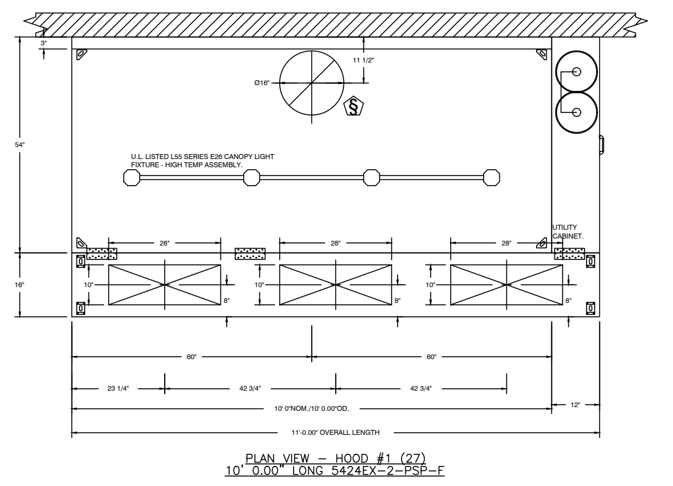
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1	27	Front	132"	16"	6"	MUA	10"	28"		633	0.184"
						MUA	10"	28"		633	0.184"
						MUA	10"	28"		633	0.184"

FIRE SYSTEM INFORMATION – JOB#5558867

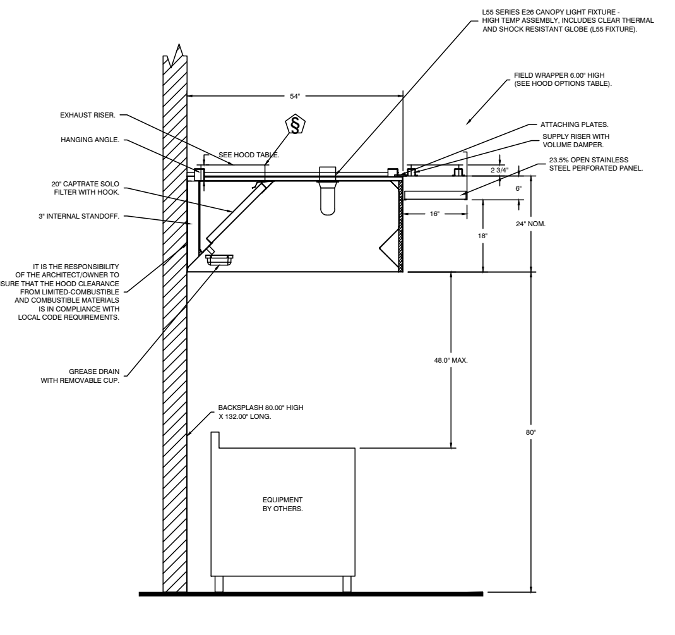
FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION SYSTEM	LOCATION ON HOOD
1	FS	TANK FS	4.0/4.0	28	FIRE CABINET RIGHT	RIGHT, HOOD 1

GAS VALVE(S)

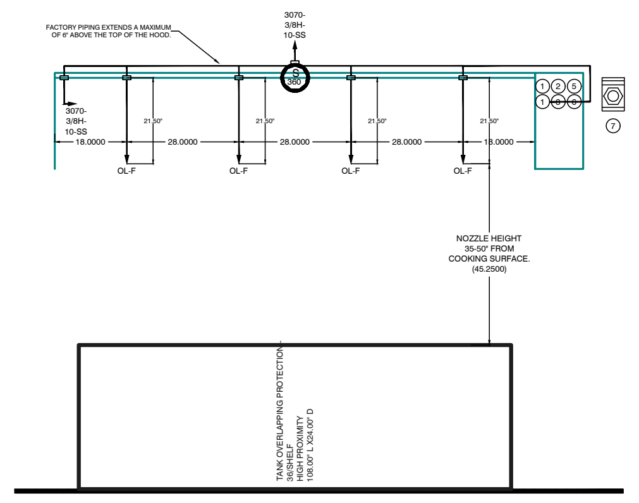
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	FS	SC ELECTRICAL	1.250	ECON-AIR



PLAN VIEW – HOOD #1 (27)



SECTION VIEW – MODEL 5424EX-2-PSP-F
HOOD – #1 (27)



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

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

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

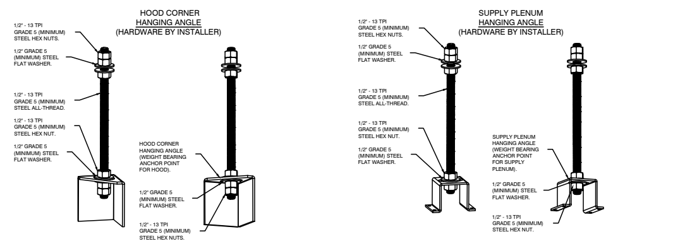
- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 5558867.
JOB NAME: SALSA FRESCA - NEWINGTON, CT.

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 28.
HOOD # 1 10' 0.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 16" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

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.



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 PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

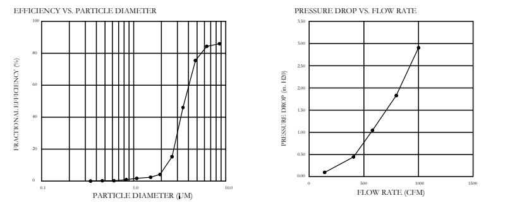
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

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.



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.

Salsa Fresca

DATE: 7/15/2022

DRAWN BY: SWA

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

SHEET NO. 1

EXHAUST FAN INFORMATION – JOB#5558867

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	EADU180H	ECON-AIR	2250	1.000	1038	TEFC,PREMIUM	1.500	0.7810	3	208	6.5	520 FPM	179	11.9

MUA FAN INFORMATION – JOB#5558867

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	1	EA1-D.250-15D	15MF-1-MOD	A1-D.250	1000	1900	0.375	1941	ODP,PREMIUM	1.500	1.1630	3	208	4.4	5.5A	15A	502	19.4

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	136725	125787	63°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

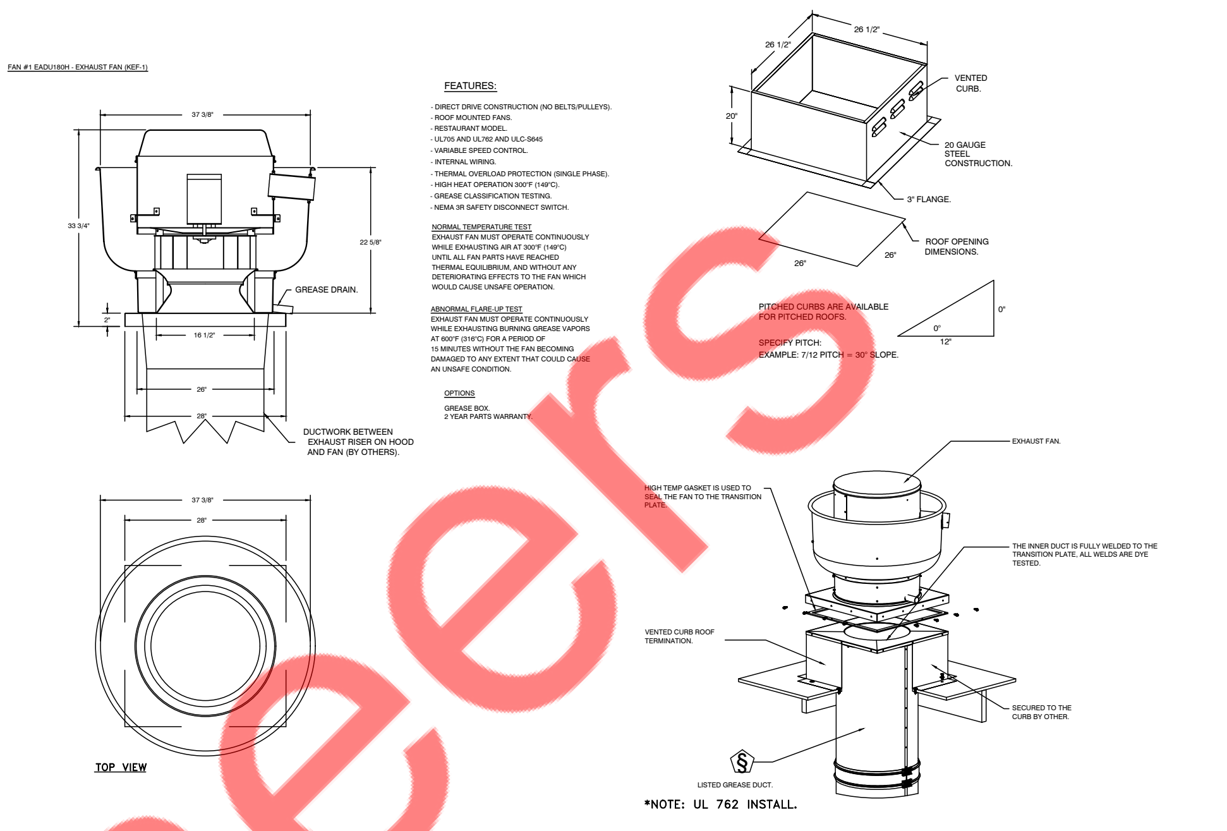
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	2 YEAR PARTS WARRANTY
2	MUA-1	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	LOW FIRE START
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	2 YEAR PARTS WARRANTY

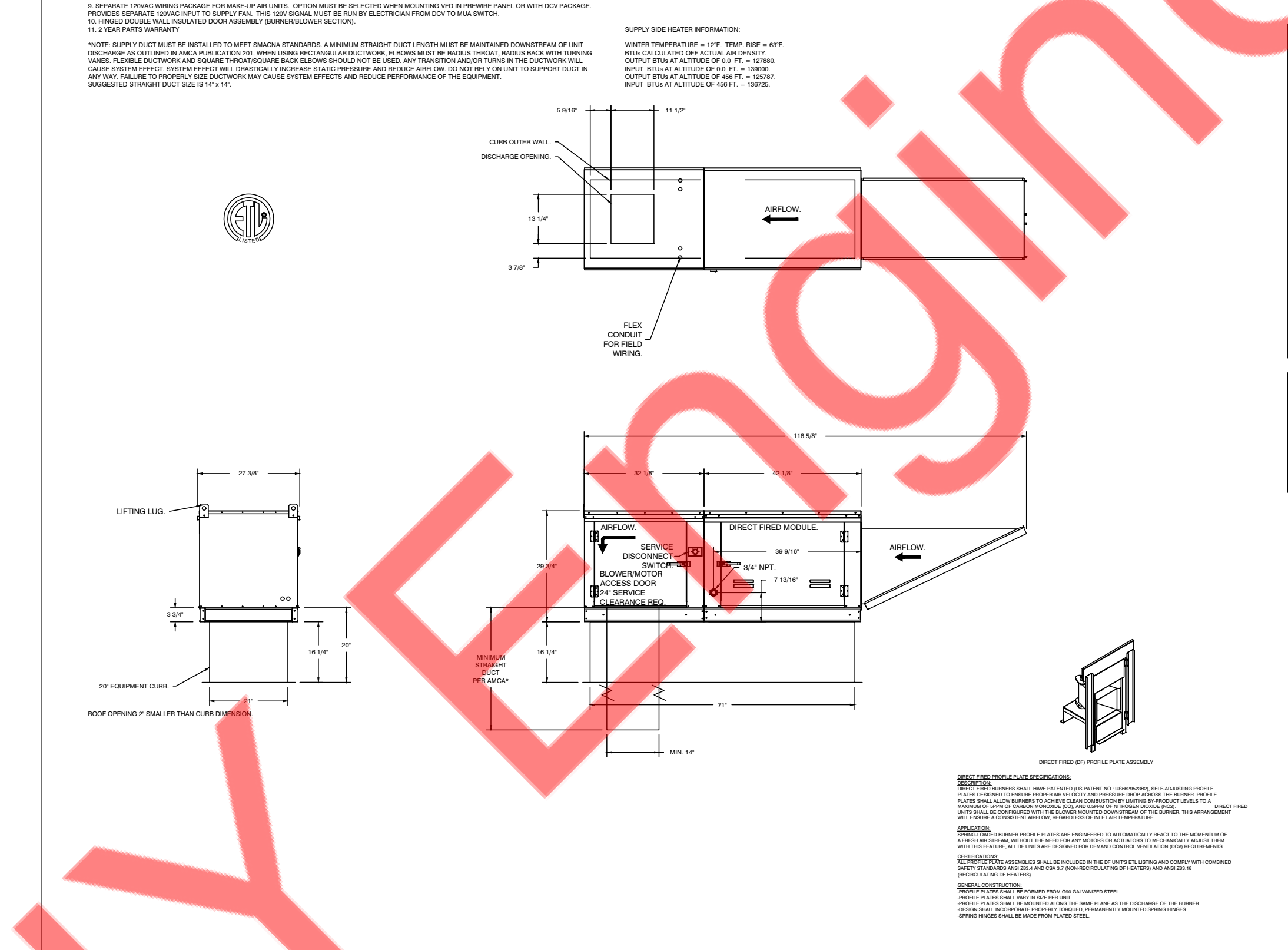
CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	41 LBS	CURB	26.500"W X 26.500"L X 20.000"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 (KEF-1)



*NOTE: UL 762 INSTALL.



GREASE DUCT & CHIMNEY SPECIFICATIONS:

PROVIDE GREASE DUCT EQUAL TO ECON-AIR MODEL "EDW"
ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "EDW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "EDW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "EDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO ECON-AIR MODEL "EDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE ______
YOUR TITLE ______ DATE ______

Salsa Fresca

DATE: 7/15/2022

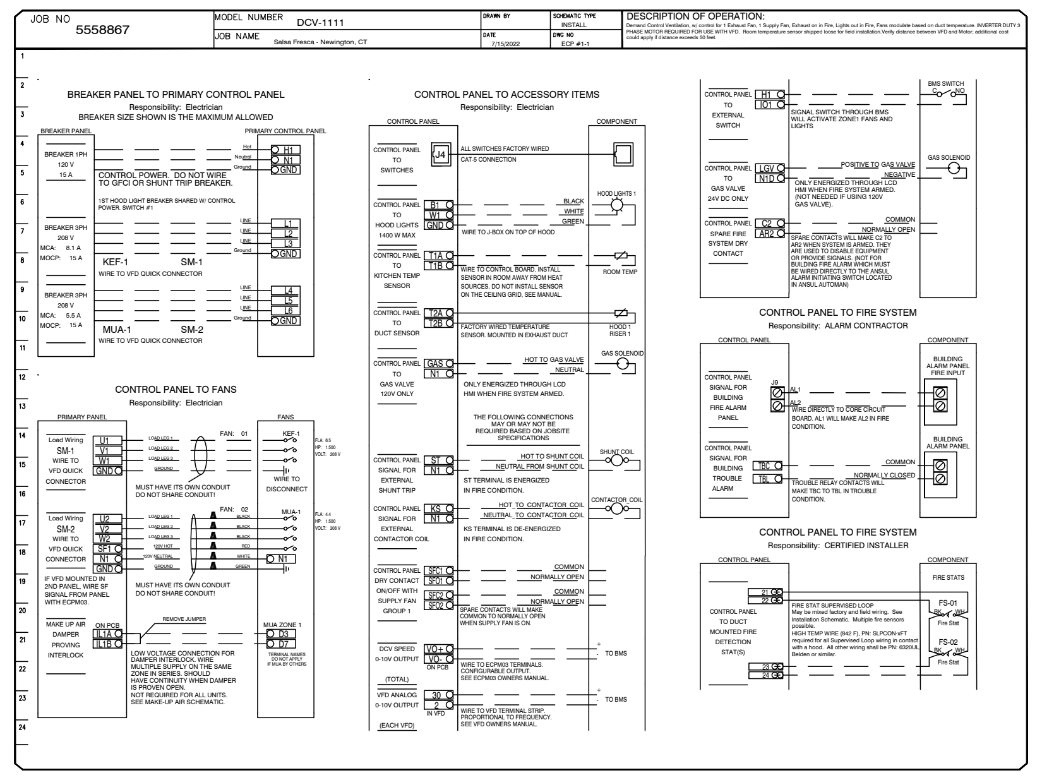
DRAWN BY: SWA

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

SHEET NO. 2

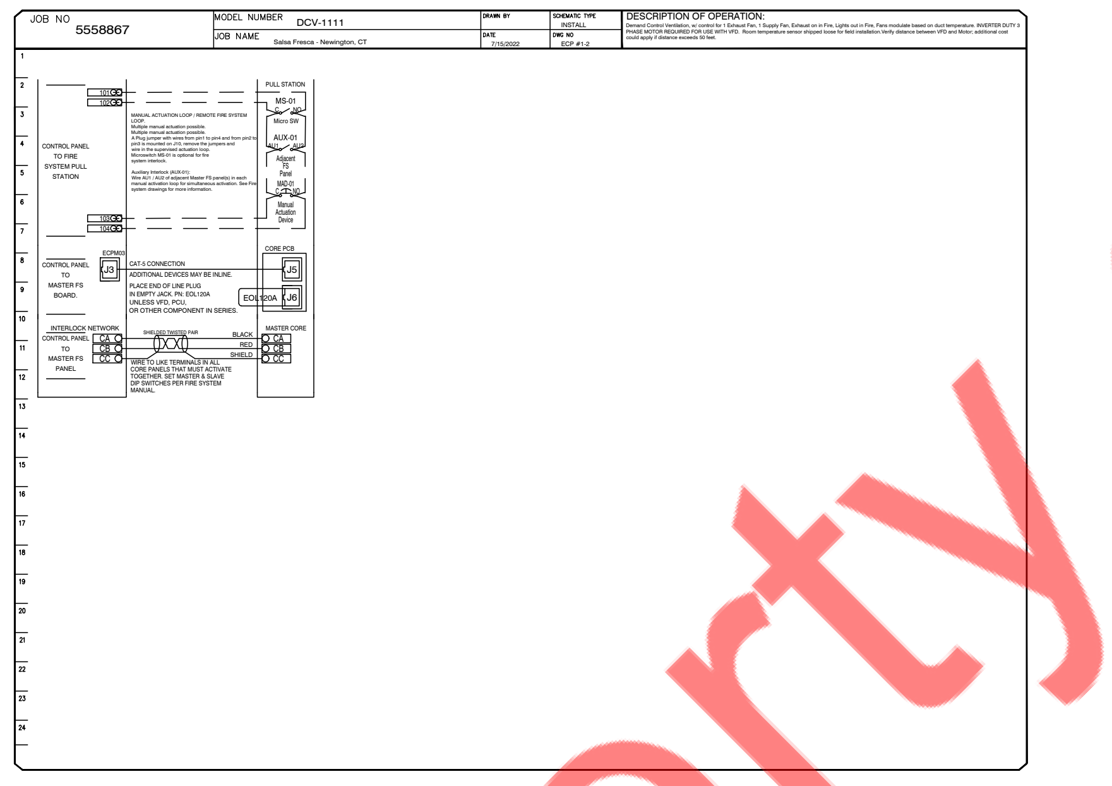
ELECTRICAL PACKAGE – JOB#5558867

NO	TAG	PACKAGE #	LOCATION	SWITCHES LOCATION	QUANTITY	OPTION	FANS CONTROLLED FAN TAG	TYPE	Φ	HP	VOLT	FLA
1	Controls	DCV-1111	UTILITY CABINET RIGHT	04 - UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	3	1.500	208	6.5
				HOOD # 1	1 FAN		MUA-1	SUPPLY	3	1.500	208	4.4

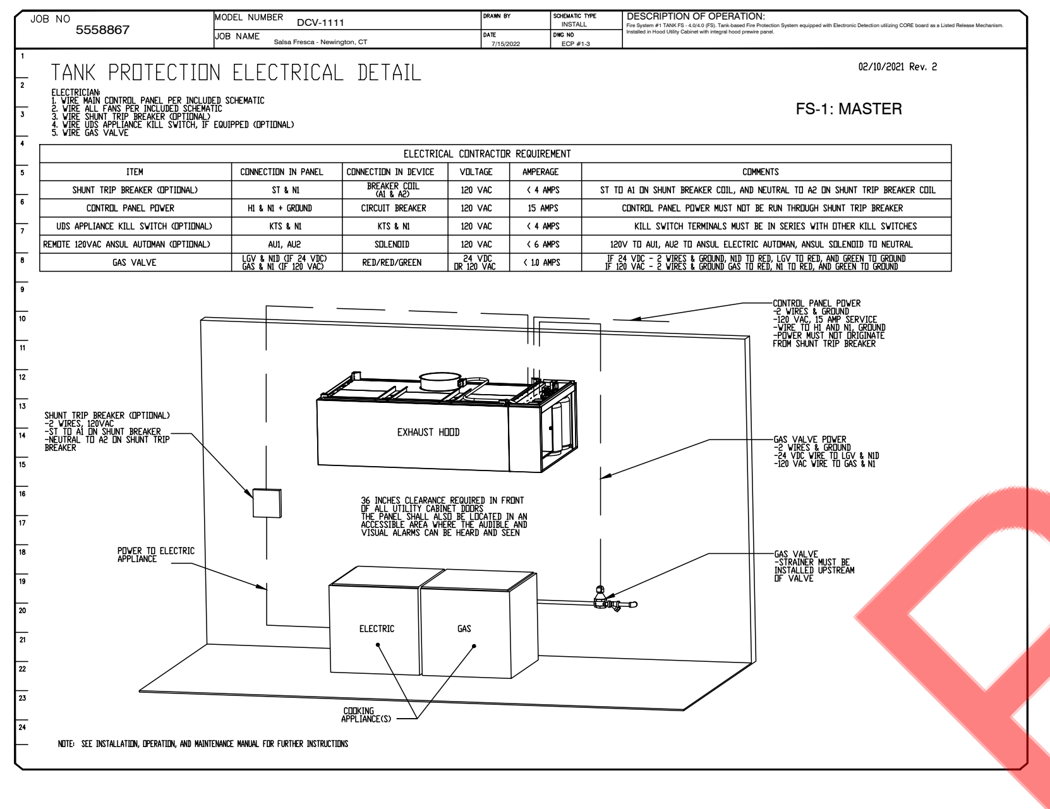


JOB NO 5558867
MODEL NUMBER DCV-1111
JOB NAME Salsa Fresca - Newington, CT
SCHEMATIC TYPE INSTALL
DATE 7/15/2022
DWG NO ECP #1-1

DESCRIPTION OF OPERATION:
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.



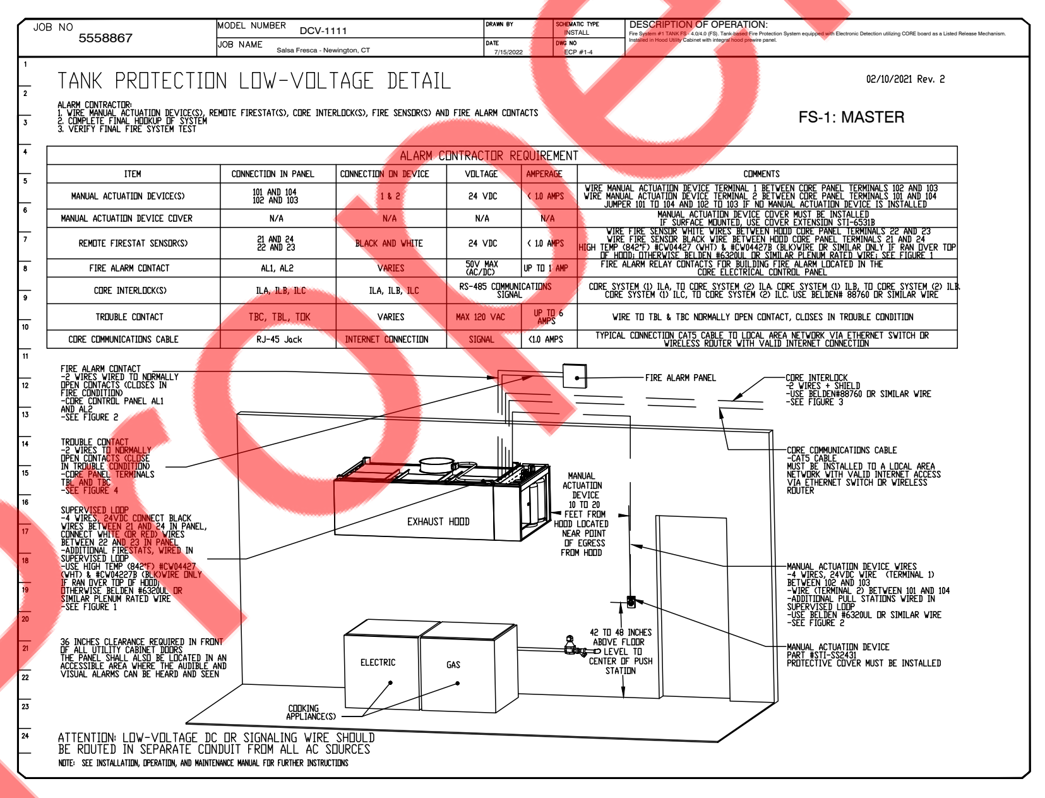
JOB NO 5558867



JOB NO 5558867

TANK PROTECTION ELECTRICAL DETAIL

FS-1: MASTER



JOB NO 5558867

TANK PROTECTION LOW-VOLTAGE DETAIL

FS-1: MASTER

Salsa Fresca

DATE: 7/15/2022

DRAWN BY: SWA

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

SHEET NO. 3

econ·air
N. NJ & S. NY
, Rutherford, NJ, 07070 PHONE: (201) 669-4982 FAX: (919) 747-5624 EMAIL: reg69@econair.com

NY ENGINEERS

PROJECT

SALSA FRESCA

REVISIONS DATES:
1 22/10/31 HEALTH DEPT. COMTS.

ISSUE DATE: 11.02.22
PROJECT #: 353D.1338D
DRAWN BY: NYE
CHECKED BY: NYE

HOOD DETAILS

M-4

SCOPE OF WORK

REUSE EXISTING 400A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL SERVICE, METER, AND DISCONNECT SWITCH PROVIDED FOR THE SALSA FRESCA SPACE. PROVIDE NEW (1) 400A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "TP1" & REUSE EXISTING (1) 200A, 120/208V 3-PHASE, 4-WIRE ELECTRICAL PANEL "TP1A" PROVIDED BY THE LANDLORD. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND LIGHTING FOR THE SALSA FRESCA SPACE INCLUDING WIRING FOR VENTILATION EQUIPMENT. COORDINATE WITH G.C FOR LOW VOLTAGE WIRING.

ELECTRICAL PLAN NOTES

1. ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET.
2. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT, NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.
3. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
4. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC... THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
6. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION FOR ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
7. ALL ELECTRICAL NOT BEING REUSED MUST BE REMOVED IN ITS ENTIRETY.
8. ALL CONDUIT IN OR UNDERGROUND OR IN CONCRETE MUST BE RIGID GALVANIZED STEEL.
9. CIRCUIT BREAKERS AND PANELS TO BE BOLT ON TYPE
10. ALL EQUIPMENT SHALL BE APPROVED BY UL OR OTHER NATIONALLY RECOGNIZED TESTING COMPANY.
11. ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY NEC 250.146
12. SUBMIT SERVICE ENTRANCE EQUIPMENT FOR SEPARATE APPROVAL.
13. ALL LOW VOLTAGE MUST BE IN CONDUIT TO ABOVE THE DROP CEILING. BRIDAL RINGS OR "J" HOOKS REQUIRED.
14. SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC.
15. SEPARATE PERMIT REQUIRED FOR SIGNAGE.
16. PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH GENERAL CONTRACTORS IS REQUIRED.
17. ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS.
18. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THHN INSULATION.
19. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, PLASTIC AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
20. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
21. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE N.E.C. OR LOCAL CODES.
22. ALL NEW MATERIALS SHALL BEAR UNDERWRITERS' LABELS.
23. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
24. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
25. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE THAT CERTIFICATE OF OCCUPANCY IS ISSUED. WARRANTY SHALL BE PROVIDED IN WRITING. PROVIDE COPY TO LL.
26. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
27. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
28. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.
29. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
30. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
31. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS.
32. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED.
33. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF N.E.C. NEMA, AND IECE.
34. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
35. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.
36. ELECTRICAL CONTROL PANEL ROOMS SHALL BE MARKED WITH A PLAINLY VISIBLE AND LEGIBLE SIGN STATING ELECTRIC ROOM IF APPLICABLE. ALL CIRCUIT BREAKERS WITHIN THE ELECTRIC PANEL SHALL BE LABELED FOR THEIR INTENDED USE. CIRCUIT BREAKERS THAT POWER EXIT SIGNS, EMERGENCY LIGHTING SHALL BE LABELED.
37. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 24" A.F.F. UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.
38. ALL LIGHT SWITCHES TO BE AT 42" A.F.F.
39. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL WIRING FOR HVAC SYSTEM INCLUDING CONTROLS, THERMOSTATS, POWER, ETC. SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
40. BREAKER AND PANELS – ALL CURRENT CARRYING BUSSES SHALL BE COPPER. ALL GROUND BUS BARS SHALL BE COPPER. PANEL BOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC HOLES. A.I.C. RATINGS SHALL BE AS INDICATED ON PANEL BOARD SCHEDULES.
41. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.
42. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
43. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACT SHALL FURNISH AND INSTALL.
44. CONTRACTOR SHALL CONFIRM WITH ANY AND ALL REQUIREMENTS SUCH AS: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, TRANSFORMER SIZE, SCHEDULED DOWN TIME FOR OWNERS CONFIRMATION, ETC. ANY CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
45. VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%. WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTORS.
46. CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V CIRCUITS OR GFI PROTECTION – FOR THE WHOLE CIRCUIT.
47. GAS PIPING SHALL BE BONDED.
48. ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE ENTRY WITH SERVICE PROVIDER PRIOR TO DETERMINING EXACT LOCATION OF THE METER BOX IN ORDER TO AVOID DISCREPANCIES BETWEEN DRAWINGS AND JOB CONDITIONS.
49. ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF.
50. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
51. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.
52. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRE CAULKING REQUIRED OF HIS WORK.
53. ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS. FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY (6'-0" OR LESS) ACCORDING TO SECTION 348.20.
54. EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR IN RIGHT ANGLES TO THE BUIDING STRUCTURE. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE SUPPORTED FROM THE ROOF DECK.
55. CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE, ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE PERMITTED.
56. ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN COMPLIANCE WITH NEC AND UL REQUIREMENTS.
57. ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS.
58. 7-DAY 24-HOUR TIME CLOCK IS REQUIRED TO CONTROL STOREFRONT ENTRY LIGHTS, SHOW WINDOW LIGHTS, SHOW WINDOW RECEPTACLES AND STOREFRONT SIGNAGE. ILLUMINATED STOREFRONT SIGNS MUST REMAIN LIT DURING ALL MALL BUSINESS HOURS.
59. TENANT IS REQUIRED TO MAKE A FIELD SURVEY OF THE EXISTING ELECTRICAL SERVICE TO ENSURE THAT THE TOTAL CONNECTED LOAD DOES NOT EXCEED THE ELECTRIC SERVICE. ANY/ALL MODIFICATIONS OR UPGRADES NEEDED ARE SUBJECT TO LANDLORD'S PRIOR APPROVAL AND WILL BE COMPLETED BY TENANT/TENANT'S GC AT TENANT'S SOLE EXPENSE.
60. ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.
61. PANEL PHASE LOADS TO BE BALANCED WITHIN 10%.
62. ALL CONDUITS RUNNING INSIDE THE SPACE SHALL BE ELECTRIC METALLIC TUBING (E.M.T.) AS PER NEW LENOX LOCAL AMENDMENTS.

RESTAURANT REQUIREMENTS

- HOOD EXHAUST FAN(S) SHOULD BE AS FAR FROM LEASE LINE AS POSSIBLE AT ROOF (5' MIN. PREFERRED). ENSURE THAT THEY ARE NO LESS THAN 10' FROM ANY ADJACENT TENANT INTAKE OR RTU.
- INSTALL GREASE GUARD(S) AROUND UPBLAST EXHAUST FAN(S) FOR HOODS AT ROOF.
- PROVIDE WATERPROOFING MEMBRANE ALONG ALL KITCHEN WALLS THAT ABUT LEASE LINE/DEMISING WALLS, UP TO 8' A.F.F. AND 8' AWAY FROM WALL, BEHIND/UNDER FINISHES (MAPEI, RED GARD, OR SIMILAR), EVEN BEHIND WATER RESISTANT FINISHES. PROVIDE PHOTOGRAPHIC EVIDENCE OF INSTALLATION.
- SEAL AROUND ALL REAR DOORS, ESPECIALLY IN KITCHEN AREAS.
- COOLERS/FREEZERS TO BE 4" MINIMUM FROM DEMISING (LEASE LINE) AND EXTERIOR WALLS, AND 2' MINIMUM FROM TENANTS INTERIOR WALLS, WITH MOISTURE AND MOLD RESISTANT WALL BOARD AND WATERPROOFING MEMBRANE BEHIND.
- PROVIDE STRUCTURAL REINFORCEMENT FOR THE HOOD EXHAUST FAN (ROOF) OPENINGS.
- GREASE REFILL AND WASTE IS PREFERRED TO BE ON A CLOSED LOOP SYSTEM (SIMILAR TO RESTAURANT TECHNOLOGIES), REFILL AND REMOVAL BOX SHALL BE RECESSED WITHIN REAR WALL.

GENERAL LIGHTING NOTES

A. CONNECT ALL EMERGENCY EGRESS AND NIGHT LIGHTING FIXTURES TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS PER STATE AND LOCAL CODES.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
EF	EXHAUST FAN
CEF	COMBINATION EXHAUST FAN/LIGHT (REFER TO MECHANICAL PLANS)
S	SPEAKERS @ CEILING
J	JUNCTION BOX
SD	CEILING MOUNTED SMOKE DETECTOR 110V., INTERCONNECTED W/ BATT. BACKUP. SMOKE DETECTOR SHALL COMPLY WITH NFPA 72, AND FBC 905.2.
	BATTERY BACK UP EXIT LIGHT
	BATTERY BACK UP EMERGENCY LIGHT
$	WALL SWITCH (SINGLE, DOUBLE,)
$3	WALL SWITCH (3 WAY, 4 WAY)
$T	WALL SWITCH (TIMER)
$D	DIMMER WALL SWITCH
$OS	OCCUPANCY SENSOR WALL SWITCH
	DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
	FLOOR MOUNTED. FLUSH DUPLEX RECEPTACLE
CL	CEILING MOUNTED DUPLEX RECEPTACLE
AC	ABOVE COUNTER DUPLEX RECEPTACLE
	ELECTRICAL PANEL
	DISCONNECT SWITCH
TV	TELEVISION OUTLET
T	TELEPHONE/DATA OUTLET
D	DATA OUTLET
A	30A/240V NON FUSED DISCONNECT SWITCH
B	60A/240V NON FUSED DISCONNECT SWITCH
C	100A/240V NON FUSED DISCONNECT SWITCH
SM	MANUAL MOTOR SWITCH

ABBREVIATIONS:

ABOVE FINISH FLOOR= A.F.F.	BELOW COUNTER= BC
COUNTER TOP LEVEL= C	PUSH BUTTON= PB
GROUND FAULT INTERRUPTER= GFCI	UNDER CABINET= UC
VERIFY PRIOR TO INSTALL= VH	VAPOR PROOF= VP
WEATHER PROOF= WP	SALVAGED = S
ABOVE COUNTER= AC	

LIGHTING FIXTURE SCHEDULE

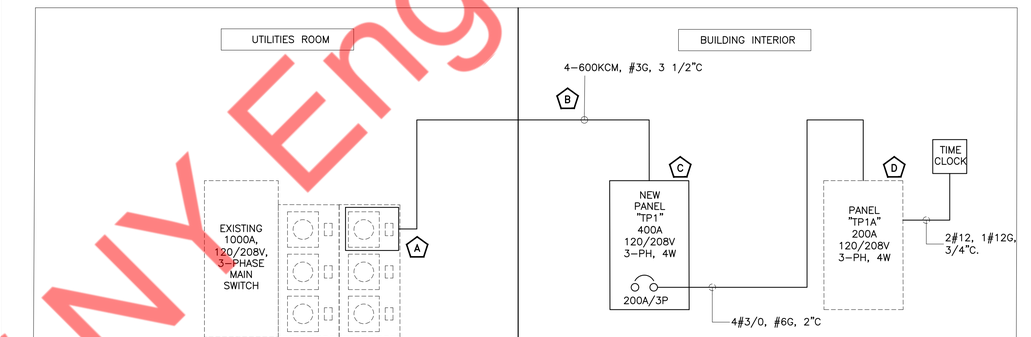
	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLT	LAMP TYPE	WATTS PER LAMP	MOUNTING
	F4	2x4 RECESSED LED TROFFER	COLUMBIA LIGHTING	4PS24-2/4PS24-3	120	FLUORESCENT LAMP	28	RECESSED
	F2	2x2 RECESSED LED FLAT PANEL	COMMERCIAL LIGHTING INDUSTRIES	CLI-NAROSH	120	LED LAMP	40	RECESSED
	C1	6" LED RECESSED	COMMERCIAL LIGHTING INDUSTRIES	CLI-NAROSC1	120	LED LAMP	15	RECESSED
	P1	LED PENDANT	TBD	TBD	120	LED LAMP	30	CEILING MOUNTED
	ML	1" DIA. SUSPENDED LED LIGHT	ALW	RLP1	120	LED LAMP	37	CEILING SUSPENDED
	X1	EXIT/EMERGENCY SIGNS	BEST LIGHTING PRODUCT	LEDCADXR-10-W/B	120	LED	5	WALL
	EX	EXIT/EMERGENCY COMBO SIGNS	BEST LIGHTING PRODUCT	CALEDCXTEU-1-R-W/R-RC-ARROWS	120	LED	5	WALL
	Y1	EMERGENCY LIGHTS	BEST LIGHTING PRODUCT	CAXTEU-2-R-W/B-EM	120	LED	5	WALL
$T	T	TIMER WALL SWITCH	LEVITON	6124	120			WALL
$OS	OS	OCCUPANCY WALL SWITCH	LEVITON	ODS10	120			WALL
OS		CEILING OCCUPANCY SENSOR	LEVITON	O2C10-UDW	120			CEILING
	(E)	EXISTING FIXTURE SHALL REMAIN	-	-	-	-	-	-

REFER TO SHEET A-2 - REFLECTED CEILING PLAN IN ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON COLORS AND TRIMS REQUIRED

REFER TO CS-5 FOR VENDORS INFORMATION

(*) EXISTING FIXTURES ARE ACCEPTABLE. IF THEY NEED TO BE REPLACED, REPLACE W/ EXACT MATCH OR MATCH SCHEDULE

SUBSTITUTIONS TO THE ABOVE FIXTURE SCHEDULE MUST BE SUBMITTED 14 DAYS PRIOR TO BID & REVIEWED BY THE ARCHITECT, ENGINEER & OWNER. SUBSTITUTIONS WILL NOT BE REVIEWED AFTER THIS TIME. SUBMITTAL PACKAGES MUST INCLUDE COLOR, CUT SHEETS, ALL PHOTOMETRICS & FIXTURE SAMPLES FOR ALL DECORATIVE FIXTURES, LANDSCAPE FIXTURES & OUTDOOR FIXTURES. WITHOUT THIS INFORMATION NO REVIEW WILL BE PROVIDED.



ELECTRICAL RISER KEYED WORK NOTES:

A. EXISTING 400A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL DISCONNECT SWITCH AND METER LOCATED IN METER BANK AT UTILITIES ROOM. E.C. SHALL COORDINATE WITH THE OWNER/BASE BUILDING FOR EXACT POWER DISTRIBUTION.

B. NEW ELECTRICAL INCOMING FEEDER FOR THE SALSA FRESCA SPACE FROM EXISTING ELECTRICAL DISCONNECT SWITCH AND METER LOCATED IN METER BANK AT UTILITIES ROOM.

C. NEW 400A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL"TP1". E.C. SHALL COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.

D. EXISTING 200A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL"TP1A" PROVIDED BY LANDLORD TO REMAIN. E.C. SHALL COORDINATE LOCATION WITH ARCHITECT/OWNER.

RISER DIAGRAM GENERAL NOTE:

1. E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.
2. E.C. SHALL VERIFY EXACT POWER DISTRIBUTION ON FIELD AND INFORM ENGINEER FOR ANY DISCREPANCY.
3. E.C. SHALL COORDINATE WITH THE UTILITY COMPANY FOR THE AVAILABLE AIC RATING.

ELECTRICAL RISER SYMBOLS:

- NEW
- EXISTING ITEM/FEEDER TO REMAIN
- EXISTING ITEM/FEEDER TO BE DISCONNECTED & REMOVED

ELECTRICAL RISER | SCALE N.T.S. | 1

NY ENGINEERS

PROJECT

SALSA FRESCA

REVISIONS DATES:
1 22/10/31 HEALTH DEPT. COMTS.

ISSUE DATE: 11.02.22
PROJECT #: 353D.133SD
DRAWN BY: NYE
CHECKED BY: NYE

ELECTRICAL RISER & GENERAL NOTES

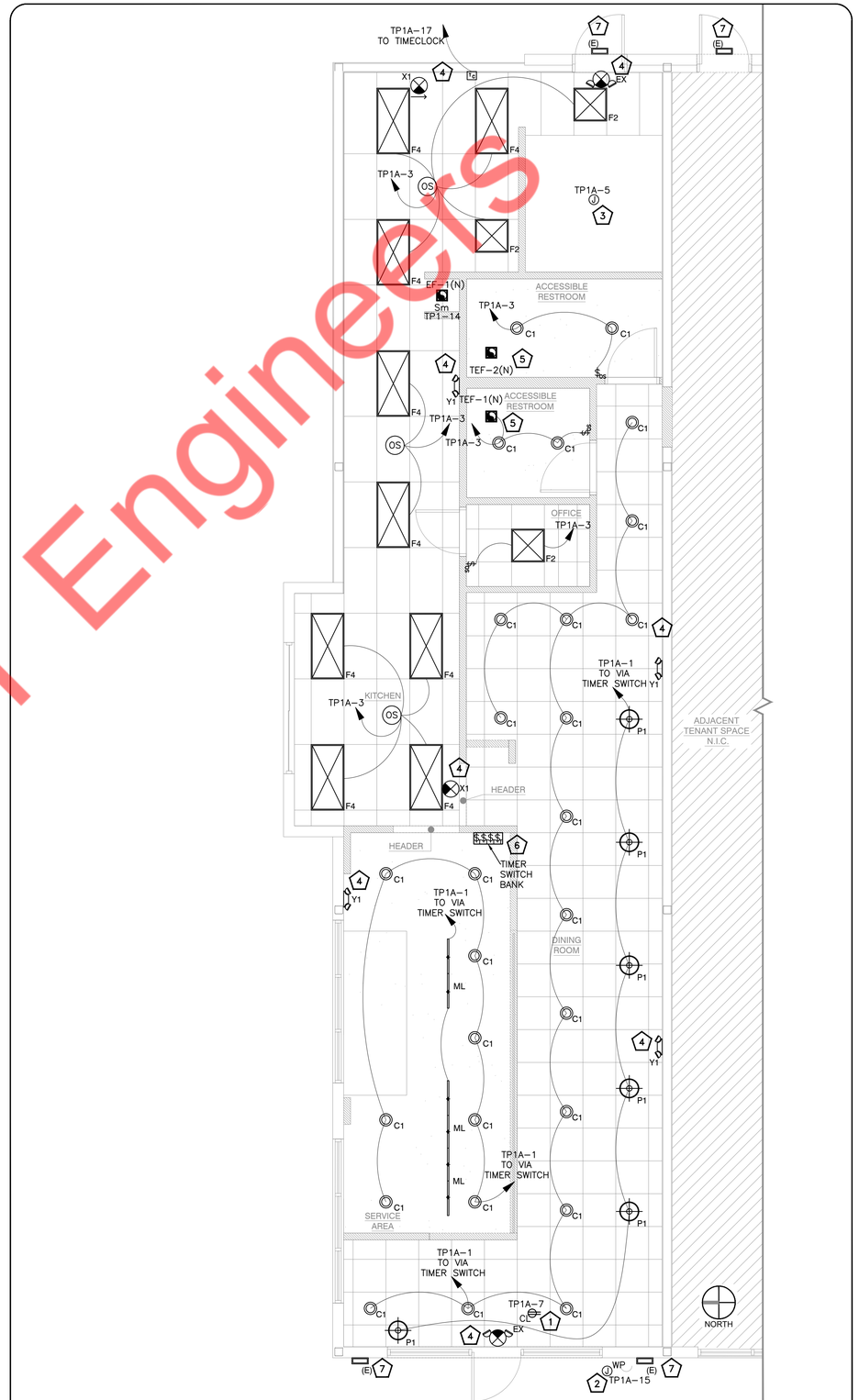
E-1

ELECTRICAL LIGHTING PLAN GENERAL NOTES:

1. COORDINATE FINAL FIXTURE MAKE AND MODEL WITH ARCHITECT/OWNER.

ELECTRICAL LIGHTING PLAN KEYED WORK NOTES:

1. PROVIDE CEILING MOUNTED RECEPTACLE FOR SHOW WINDOW AS REQUIRED BY CODE. VERIFY WITH LOCAL ENERGY AGENCY. VERIFY EXACT LOCATION WITH ARCHITECT.
2. EXTERIOR SIGNAGE. E.C COORDINATE EXACT POWER REQUIREMENT AND EXACT LOCATION, MOUNTING WITH OWNER/LANDLORD.
3. WALK IN BOX COOLER LIGHTING TO BE PROVIDED BY WALK IN BOX MANUFACTURER.
4. CONNECT ALL EMERGENCY EGRESS AND NIGHT LIGHTING FIXTURES TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS PER STATE AND LOCAL CODES.
5. EXHAUST FANS SHALL BE CIRCUITED AND CONTROLLED ALONG WITH LIGHT FIXTURES IN THE SAME ROOM.
6. COORDINATE EXACT LOCATION OF TIMER SWITCH BANK WITH OWNER/ARCHITECT.
7. EXISTING LIGHT FIXTURE IN THIS AREA DENOTED BY (E) SHALL REMAIN CONNECTED TO THE RESPECTIVE EXISTING ELECTRICAL HOUSE PANEL ALONG WITH THEIR CONTROLS. E.C. SHALL VERIFY THE CONTROLS IN FIELD AND REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.



LIGHTING PLAN | SCALE 1/4" = 1'-0" | 1

NY ENGINEERS

PROJECT

SALSA FRESCA

REVISIONS DATES:
1 22/10/31 HEALTH DEPT. COMTS.

ISSUE DATE: 11.02.22
PROJECT #: 353D.1338D
DRAWN BY: NYE
CHECKED BY: NYE

ELECTRICAL LIGHTING PLAN

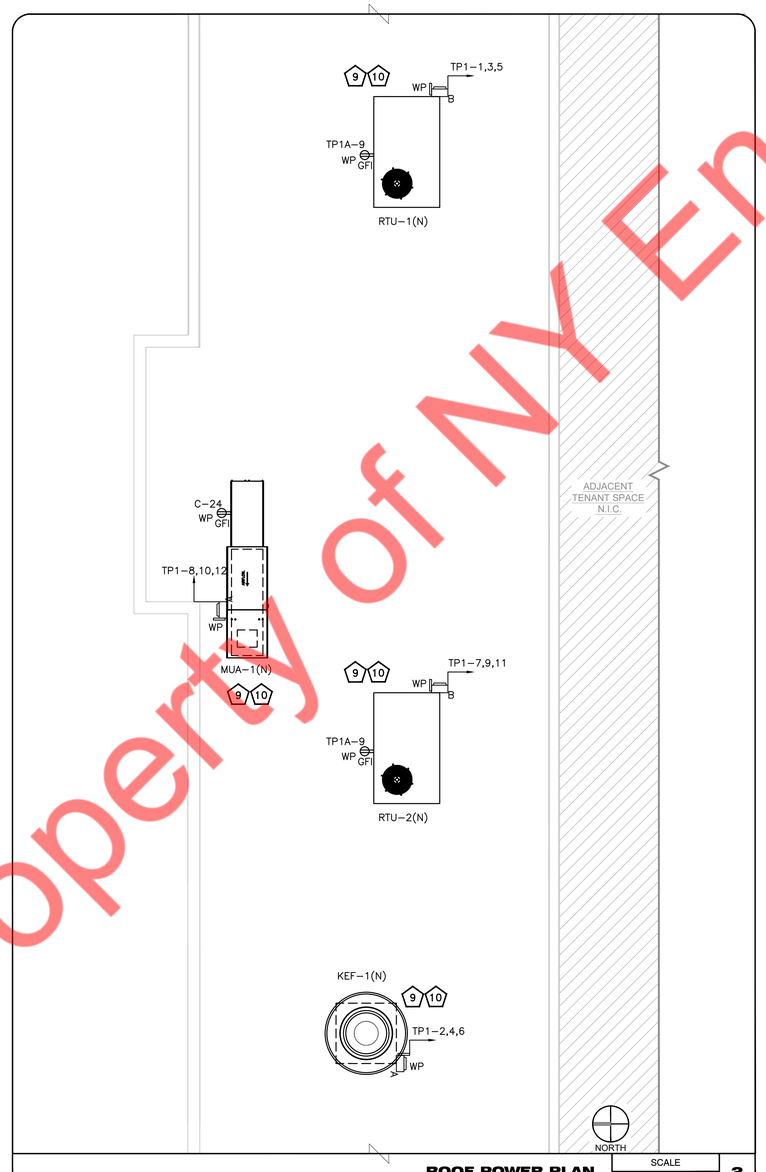
E-2

ELECTRICAL POWER PLAN KEYED WORK NOTES:

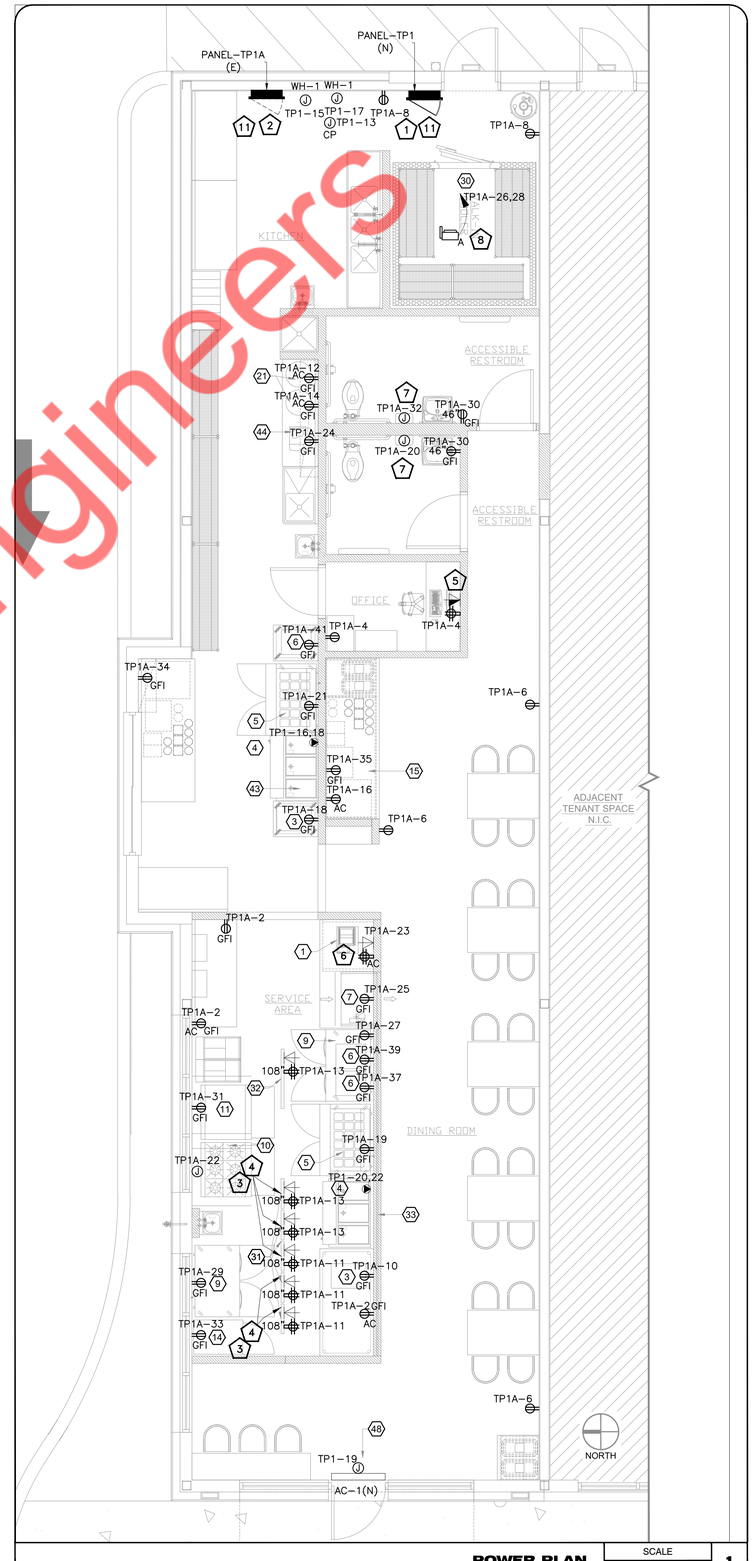
1. NEW 400A, 120/208V, 3–PHASE ELECTRICAL PANEL "TP1". E.C SHALL COORDINATE LOCATION WITH ARCHITECT/OWNER.
2. EXISTING 200A, 120/208V, 3–PHASE ELECTRICAL PANEL "TP1A" TO REMAIN. E.C SHALL COORDINATE LOCATION WITH ARCHITECT/OWNER.
3. PROVIDE (1) QUAD RECEPTACLE AND (1) CAT6 DATA CABLE AND CONNECTION FOR EACH MENUBOARD AT 108" A.F.F COORDINATE IN FIELD. FINAL LOCATION WITH OWNER.
4. COORDINATE WITH OWNER ADDITIONAL POWER AND DATA REQUIREMENTS FOR MENUBOARD PRIOR COMMENCING WORK.
5. PROVIDE TWO (2) CAT6 HOMERUN TO DESK AND ONE (1) QUAD 20 AMP RECEPTACLE AT 18" A.F.F AT DESK. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH–IN.
6. PROVIDE TWO (2) CAT 6 HOMERUN TO EACH POS AND KDS STATION AND ONE (1) QUAD 20 AMPS RECEPTACLE FOR POS COORDINATE WITH OWNER PRIOR TO ROUGH–IN FOR EXACT HEIGHT.
7. JUNCTION BOX FOR HAND DRYER. E.C. TO COORDINATE MOUNTING HEIGHT.
8. ELECTRICAL CONTRACTOR TO COORDINATE EXACT POWER REQUIREMENT WITH WALK IN BOX MANUFACTURER AND MAKE POWER PROVISION ACCORDINGLY.
9. ELECTRICAL CONTRACTOR SHALL COORDINATE FOR EXACT LOCATION OF MECHANICAL EQUIPMENTS WITH MECHANICAL DRAWINGS.
10. ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENT FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH–IN AND PROVIDE AS REQUIRED. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES.
11. E.C. SHALL VERIFY THE LOCATION OF ELECTRICAL PANELS IN COMPLIANCE WITH 2017 NEC ARTICLE 110.26(A) AND (B). E.C. SHALL FIELD VERIFY THAT THE PANELS ARE UNOBSTRUCTED AND THE AREA WHERE THE PANELS ARE PLACED SHALL NOT BE USED AS A STORAGE SPACE.

ELECTRICAL POWER PLAN GENERAL NOTES:

1. E.C. TO COORDINATE ALL RECEPTACLES HEIGHT WITH ARCHITECT PRIOR TO ROUGH–IN.



ROOF POWER PLAN | SCALE 1/4" = 1'-0" | 2



POWER PLAN | SCALE 1/4" = 1'-0" | 1

NY ENGINEERS

PROJECT

SALSA FRESCA

REVISIONS DATES:
1 22/10/31 HEALTH DEPT. COMTS.

ISSUE DATE: 11.02.22
PROJECT #: 353D.1338D
DRAWN BY: NYE
CHECKED BY: NYE

ELECTRICAL POWER PLAN

E-3

PANEL:	TP1(N)										MOUNTING:	SURFACE
208Y/120	VOLTS,	3	PHASE,		4	WIRE					PANEL LOCATION:	KITCHEN
MAIN CB:	400A	MLO:	NA		BUS:	400A	MIN,				FED FROM:	SERVICE DISCONNECT
NOTE:												

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA) A	B	C	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	45/3P	RTU-1(N)	H	3.84	3#8, #10G, 3/4"C	4.62			3#12, #12G, 3/4"C	0.78	M	KEF-1(N)	15/3P	2
3			H	3.84			4.62			0.78	M			4
5			H	3.84				4.62		0.78	M			6
7	45/3P	RTU-2(N)	H	3.84	3#8, #10G, 3/4"C	4.50			3#12, #12G, 3/4"C	0.66	H	MUA-1(N)	15/3P	8
9			H	3.84			4.50			0.66	H			10
11			H	3.84				4.50		0.66	H			12
13	20	CIRCULATION PUMP-CP	M	0.09	2#12, #12G, 3/4"C	0.11			2#12, #12G, 3/4"C	0.02	M	EF-1(N)	20	14
15	20	WH-1(GAS)	O	0.92	2#12, #10G, 3/4"C		2.12		2#12, #12G, 3/4"C	1.20	E	HOT WELL (#4)	20*/2P	16
17	20	WH-1(GAS)	O	0.92	2#12, #10G, 3/4"C			2.12		1.20	E			18
19	20	AC-1(N)	H	0.03	2#12, #10G, 3/4"C	1.23			2#12, #12G, 3/4"C	1.20	E	HOT WELL (#4)	20*/2P	20
21	20	SPARE					1.20			1.20	E			22
23	20	SPARE						0.00				SPARE	20	24
25	20	SPARE				0.00						SPARE	20	26
27	20	SPARE					0.00					SPARE	20	28
29	20	SPARE						0.00				SPARE	20	30
31	20	SPARE				0.00						SPARE	20	32
33	20	SPARE					0.00					SPARE	20	34
35	20	SPARE						0.00				SPARE	20	36
37	20	SPARE				10.60				10.60	O			38
39	20	SPARE					10.34		4#3/0, #6G, 2"C	10.34	O	EXISTING PANEL"TP1A"	200/3P	40
41	20	SPARE						10.44		10.44	O			42
					TOTAL CONNECTED LOAD (KVA)	21.06	22.79	21.69						

LOAD CLASSIFICATION		CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
TOTAL LIGHTING	L	0.00	125%	0.00
TOTAL RECEPTACLE	R	0.00	100%	0.00
TOTAL HVAC	H	25.07	100%	25.07
TOTAL MOTOR	M	2.45	100%	2.45
TOTAL KITCHEN/EQUIPMENTS	E	4.80	65%	3.12
TOTAL OTHER/MISCILLANEOUS	O	33.22	100%	33.22

PANEL TOTAL LOAD		
TOTAL CONNECTED LOAD	65.53	KVA
TOTAL DEMAND LOAD	63.85	KVA
TOTAL CONNECTED CURRENT	182.11	AMP
TOTAL DEMAND CURRENT	177.44	AMP
SYSTEM VOLTAGE	120/208 Wye	

PANEL:	TP1A(E)										MOUNTING:	SURFACE
208Y/120	VOLTS,	3	PHASE,		4	WIRE					PANEL LOCATION:	KITCHEN
MAIN CB:	200A	MLO:	NA		BUS:	225A	MIN,				FED FROM:	PANEL_TP1
NOTE:												

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA) A	B	C	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20	LIGHTING-DINING & SERVICE AREA	L	0.64	2#12, #12G, 3/4"C	1.00			2#12, #12G, 3/4"C	0.36	R	RECEPTACLE-GENERAL KITCHEN	20	2
3	20	LIGHTING-KITCHEN, OFFICE, RR	L	0.45	2#12, #12G, 3/4"C		0.99		2#12, #12G, 3/4"C	0.54	R	RECEPTACLE-OFFICE	20	4
5	20	WALK-IN COOLER LIGHT	L	0.10	2#12, #12G, 3/4"C			0.64	2#12, #12G, 3/4"C	0.54	R	RECEPTACLE-GENERAL FOH	20	6
7	20	SHOW WINDOWS(RECEP)	R	1.64	2#12, #12G, 3/4"C	2.00			2#12, #12G, 3/4"C	0.36	R	RECEPTACLE-GENERAL BOH	20	8
9	20	RECEPTACLE-ROOF	R	0.36	2#12, #12G, 3/4"C		2.16		2#12, #12G, 3/4"C	1.80	E	PANINI PRESS (#3)	20	10
11	20	MENUBOARD(RECEP)	R	1.08	2#12, #12G, 3/4"C			2.86	2#12, #12G, 3/4"C	1.78	E	RICE COOKER(#21)	20	12
13	20	MENUBOARD(RECEP)	R	1.08	2#12, #12G, 3/4"C	2.86			2#12, #12G, 3/4"C	1.78	E	RICE COOKER(#21)	20	14
15	20	SIGN	L	1.20	2#12, #12G, 3/4"C		1.38		2#12, #12G, 3/4"C	0.18	R	RECEPTACLE-DINING AREA	20	16
17	20	TIME CLOCK	L	0.20	2#12, #12G, 3/4"C			2.00	2#12, #12G, 3/4"C	1.80	E	PANINI PRESS (#3)	20	18
19	20	SANDWICH UNIT(#5)	E	0.40	2#12, #12G, 3/4"C	0.58			2#12, #12G, 3/4"C	0.18	O	HAND DRYER	20	20
21	20	SANDWICH UNIT(#5)	E	0.40	2#12, #12G, 3/4"C		0.58		2#8, #10G, 3/4"C	0.18	E	RANGE (#10)(GAS)	20	22
23	20	POS	R	0.36	2#12, #12G, 3/4"C			1.11	2#12, #12G, 3/4"C	0.75	E	FOOD PROCESSOR(#44)	20	24
25	20	REFRIGERATED SELF SERVICE COUNTER CASE (#7)	E	1.05	2#12, #12G, 3/4"C	2.00			2#12, #12G, 3/4"C	0.95	E	WALKIN COOLER(CU)(#30)	20/2P	26
27	20	WORKTOP REFRIGERATOR (#9)	E	0.30	2#12, #12G, 3/4"C		1.25			0.95	E			28
29	20	WORKTOP REFRIGERATOR (#9)	E	0.30	2#12, #12G, 3/4"C			0.66	2#12, #12G, 3/4"C	0.36	R	RECEPTACLE-RR	20	30
31	20	GAS GRIDDLE (#11)	E	0.18	2#12, #12G, 3/4"C	0.36			2#12, #12G, 3/4"C	0.18	O	HAND DRYER	20	32
33	20	HEATER CABINET (#14)	E	2.00	2#12, #12G, 3/4"C		2.18		2#12, #12G, 3/4"C	0.18	R	RECEPTACLE-DESPENSER	20	34
35	20	ICE MAKER(#15)	E	1.37	2#12, #12G, 3/4"C			1.37				SPARE	20	36
37	20	PANINI PRESS (#6)	E	1.80	2#12, #12G, 3/4"C	1.80						SPARE	20	38
39	20	PANINI PRESS (#6)	E	1.80	2#12, #12G, 3/4"C		1.80					SPARE	20	40
41	20	PANINI PRESS (#6)	E	1.80	2#12, #12G, 3/4"C			1.80				SPARE	20	42
					TOTAL CONNECTED LOAD (KVA)	10.60	10.34	10.44						

LOAD CLASSIFICATION		CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
TOTAL LIGHTING	L	2.58	125%	3.23
TOTAL RECEPTACLE	R	7.04	100%	7.04
TOTAL HVAC	H	0.00	100%	0.00
TOTAL MOTOR	M	0.00	100%	0.00
TOTAL KITCHEN/EQUIPMENTS	E	21.39	65%	13.90
TOTAL OTHER/MISCILLANEOUS	O	0.36	100%	0.36

PANEL TOTAL LOAD		
TOTAL CONNECTED LOAD	31.37	KVA
TOTAL DEMAND LOAD	24.53	KVA
TOTAL CONNECTED CURRENT	87.19	AMP
TOTAL DEMAND CURRENT	68.18	AMP
SYSTEM VOLTAGE	120/208 Wye	

* INDICATED GFCI CIRCUIT BREAKER

EQUIPMENT SCHEDULE:

ITEM NO.	DESCRIPTION	VOLTAGE	PHASE	AMPS	kW
1	POS STATION	115	1	3.13	0.36
3	PANINI PRESS	115	1	15.69	1.80
4	HOT WELL	208	1	11.54	2.40
5	SANDWICH UNIT	115	1	3.50	0.40
6	PANINI PRESS	115	1	15.69	1.80
7	REFRIGERATED SELF SERVICE COUNTER CASE	115	1	9.13	1.05
9	WORKTOP REFRIGERATOR	115	1	2.60	0.30
10	RANGE(GAS)	115	1	1.56	0.18
11	GAS GRIDDLE	115	1	1.56	0.18
14	HEATER CABINET	115	1	17.39	2.00
15	ICE MAKER	115	1	11.9	1.37
21	RICE COOKER	115	1	15.47	1.78
30	WALKIN COOLER	208	1	9.1	1.89
31,32	MENU BOARD	115	1	3.13	0.36
44	FOOD PROCESSOR	115	1	6.49	0.75

GENERAL NOTE:

1. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT POWER AND CONNECTION REQUIREMENTS WITH THE MANUFACTURER PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.

PROJECT

SALSA FRESCA

REVISIONS DATES:

1 22/10/31 HEALTH DEPT. COMTS.

ISSUE DATE: 11.02.22
PROJECT #: 353D.1338D
DRAWN BY: NYE
CHECKED BY: NYE

ELECTRICAL PANEL SCHEDULE

E-4

PANEL SCHEDULE

SCALE 1/4" = 1'-0"

SCOPE OF WORK

PROVIDE ALL PLUMBING FOR NEW FAST FOOD RESTAURANT INCLUDING ALL WATER & SANITARY LINES AND CONNECT TO EXISTING UTILITIES.PROVIDE NEW #2 GAS FIRED TANKLESS WATER HEATER AND GREASE INTERCEPTOR.

COORDINATE WITH GC AND MECH CONTRACTOR FOR ANY REQUIRED CONDENSATE LINES FOR WATER HEATERS.

FIXTURE BRANCH SCHEDULES

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (VALVE)	1"	--	4"	2"
LAVATORY	1/2"	1/2"	2"	1 1/2"
MOP SINK	1/2"	1/2"	3"	2"
FLOOR DRAIN / SINK	--	--	3"	2"
HAND SINK	1/2"	1/2"	2"	1 1/2"

NEW WATER HEATER SCHEDULE - WH-1

MANUFACTURER	NAVIEN
MODEL	NPE-240
STATUS	NEW
QUANTITY	2
CAPACITY	TANKLESS
FUEL	GAS
BTU/HR	199,900 EA
TOTAL FLOW RATE	8.0 GPM*
VOLTAGE	120/1/60
AMPERAGE	8 EA
WEIGHT (EMPTY)	154 LBS

NOTES

1. * @ 100° F TEMPERATURE RISE
2. INSTALL NEW EXPANSION TANK AMTROL MODEL THERM-X-TROL ST-5.2.0 GAL PER LOCAL CODE REQUIREMENTS

RECIRCULATION PUMP SCHEDULE

MANUFACTURER & MODEL	GRUNDFOS UP 15-35 SUC TLC
EQUIPMENT TAG	CP
STATUS	NEW
GPM	2
WATER TEMP.(°F)	140
PUMP TYPE	INLINE
MHP	86 WATTS
V/PH/HZ	115/1/60
RPM	2800
SERVICE FACTOR	1.0

NOTE

1.PROVIDE AQUA STAT WITH AUTOMATIC TIMER KIT FOR THE TEMPERATURE CONTROL OF HOT WATER SYSTEM.COORDINATE ELECTRICAL REQUIREMENTS FOR TIMER WITH ELECTRICAL CONTRACTOR.

PLUMBING NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
2. PLUMBING CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING OR PRECEDING WITH WORK.
3. ALL EQUIPMENT WHICH IS TO REMAIN MUST BE REFURBISHED TO A LIKE NEW CONDITION.
4. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
5. ALL MATERIALS SHALL BE NEW.
6. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
7. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
8. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
9. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
10. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
11. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
12. EXPOSED WATER PIPING SHALL BE TYPE "L" COPPER FOR 2" AND UNDER. WATER PIPING IN WALLS AND UNDERGROUND MAY BE "PEX" TYPE PIPING THAT MEETS ANSI/NSF STANDARD 61.
13. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE PVC BUT MAY NOT RUN THRU RATED ASSEMBLIES OR IN PLENUMS.
14. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
15. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE GROUP AS PER CODE AND WITH GOOD ENGINEERING PRACTICE.
16. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS; EXCEPT AT WATER HEATER AS PER CODE.
17. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD.
18. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS AS PART OF THE PLUMBER'S WORK.
19. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE WITHIN 72 HOURS OF NOTIFICATION AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED. PROVIDE COPY TO LL.
20. STUDOR MINI/MAXI AIR ADMITTANCE VALVES MAY NOT BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF.
21. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEAN OUT PLUG OR ACCESS PANEL FOR ALL CLEANOUTS.
22. NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
23. NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
24. WATER PIPING INSULATION SHALL BE 1" THICK ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION.
25. CONDENSATE DRAIN LINES TO BE RUN UNDER SLAB IN PVC SCH40 PIPE AND STUBBED OUT OF WALL TO UNIT. TIE-IN OF A/C TO BE BY OTHERS. PVC PIPING WITH 1/2" THICK ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40 FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40.
26. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
27. NO JOINTS UNDERGROUND FOR COPPER.
28. PLUMBING FIXTURES SHALL COMPLY WITH 2015 INTERNATIONAL PLUMBING CODE
29. WATER HAMMER ARRESTORS AS PER 2015 INTERNATIONAL PLUMBING CODE
30. PLUMBING CONTRACTOR TO PROVIDE ANTI-SCALDING VALVE FOR TUBS AND SHOWERS.
31. PLUMBING CONTRACTOR SHALL REVIEW ALL BID DOCUMENTATION.
32. PLUMBING CONTRACTOR SHALL REVIEW WALL FINISHES @ LOCATION REQUIRING BARRIER-FREE COMPLIANCE (EXAMPLE: CENTER LINE TO TOILET).
33. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
34. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. PROVIDE A COPY TO LL.

PLUMBING LEGEND

SAN	SANITARY SEWER PIPING
EX.CW	EXISTING DOMESTIC COLD WATER
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN
EX.SAN	EXISTING SANITARY SEWER PIPING
G	GAS PIPING
EX.G	EXISTING GAS PIPING
	PIPE RISE
	PIPE DROP
	CAPPED END OF PIPE
CO	CLEAN OUT
	P-TRAP
S.O.V.	SHUT-OFF VALVE
COTG	CLEAN OUT TO GRADE
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HB	HOSE BIBB
VTR	VENT THRU ROOF
	BALL VALVE
	CHECK VALVE
	BALANCING VALVE
	GAS COCK
	WATER HAMMER ARRESTER
FD	FLOOR DRAIN
F.W.	FILTERED WATER
B.P.	BACKFLOW PREVENTOR
I.W.	INDIRECT WASTE
	FLOOR SINK
	AIR ADMITTANCE VALVE
	CIRCULATION PUMP
	EXPANSION TANK
	THERMOSTATIC MIXING VALVE

GREASE INTERCEPTOR SIZING

TAG	DESCRIPTION	QTY	DIMENSIONS			VOLUME		%USAGE	GPM	GPM	
			LENGTH	WIDTH	DEPTH	CU.IN	GALLONS		1 MIN	2 MIN	
23	1- COMPARTMENT SINK	01	18	18	12	3888	16.8	0.75	12.6	6.3	
24	MOP SINK	01	24	24	10	5760	24.9	0.75	18.7	9.4	
8	HAND SINK	03	10	10	06	1800	7.8	0.75	5.8	2.9	1
17	3 COMP SINK	01	18	24	14	18144	78.5	0.75	58.9	29.5	1
							TOTAL GPM		96	48.1	
	AS PER 2015 INTERNATIONAL PLUMBING CODE SECTION 1003.3.5, PROPOSED GREASE INTERCEPTOR MODEL									SCHIER-GB-50	

GREASE INTERCEPTOR SCHEDULE

ITEM	SERVICE	FLOW CAPACITY (GPM)	GREASE CAPACITY (LBS)	MANUFACTURER AND MODEL
GREASE INTERCEPTOR GI-1	KITCHEN WASTE	50	439.5	SCHIER GB-50

NOTE- CONTRACTOR TO PROVIDE ALL REQUIRED ACCESSORIES FOR SATISFACTORY WORKING OF GREASE TRAP AS PER SITE CONDITIONS.

EXISTING CONTIDITONS NOTES

STOP AND READ

THE CONTRACTOR AND SUB-CONTRACTORS **SHALL NOT INITIATE ANY WORK UNTIL EXISTING FIELD CONDITIONS ARE PROPERLY VERIFIED**. THIS SHALL HOLD TRUE FOR FIRST GENERATION AND 2ND GENERATION SPACES. WHEN DEMOLITION IS REQUIRED, THAT WILL BE PERMITTED TO EXPOSE CONDITIONS. THESE VERIFICATIONS SHALL INCLUDE BUT NOT LIMITED TO: DIMENSIONS BOTH HORIZONTALLY AND VERTICAL, ELECTRICAL SERVICE /PANELS LOCATION AND VOLTS/PHASE, LOCATION/QTY OF ROOF MOUNTED HVAC EQUIPMENT, CONFIRM THAT INTERIOR HVAC HUNG UNITS HAVE PROPER SUPPORT CONNECTIONS FOR EXISTING STRUCTURE, FIRE SPRINKLER MAIN RUNS, TOILET ROOM DIMENSIONS, DOOR SWING FOR DOORS TO REMAIN AND ETC. IF NOT VERIFIED AND DISCOVERED AT A LATER TIME, THE CONTRACTOR SHALL REIMBURSE THE ARCHITECT FOR THE REDESIGN FEE. THIS DOES NOT INCLUDE HIDDEN WORK I.E. PITCH OF SANITARY LINES, ACTUAL CONDITIONS OF EXISTING HVAC EQUIPMENT, STRUCTURAL COLUMNS/BEARING WALLS OR CONDITIONS OF GREASE INTERCEPTORS AND ETC.

ENERGY CONSERVATION NOTES

1. AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.4, PIPING FROM A WATER HEATER TO THE TERMINATION OF HEATED WATER FIXTURE SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE C403.2.10 OF MINIMUM PIPE INSULATION THICKNESS.

2.HOT WATER SYSTEM PIPING IS DESIGNED AS PER MAXIMUM ALLOWED PIPE LENGTH METHOD AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.5.1 THE HOT WATER VOLUME FROM THE NEAREST SOURCE OF HEATED WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE AS PER MAXIMUM PIPING LENGTH TABLE.

3.AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE,C404.6.1, AUTOMATIC CONTROLS SHALL BE INSTALLED THAT LIMITS THE OPERATION OF A RECIRCULATING PUMP AND THE SYSTEM RETURN PIPE SHALL BE A DEDICATED RETURN PIPE OR A COLD WATER SUPPLY PIPE.

4.AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.7, PUMPS SHALL HAVE CONTROLS THAT COMPLY WITH BOTH OF THE FOLLOWING:

A. THE CONTROL SHALL START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE, SENSING THE PRESENCE OF A USER OF A FIXTURE OR SENSING THE FLOW OF HOT OR TEMPERED WATER TO A FIXTURE FITTING OR APPLIANCE.

B. THE CONTROL SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO 104°F (40°C).

RESTAURANT REQUIREMENTS

- •HOOD EXHAUST FAN(S) SHOULD BE AS FAR FROM LEASE LINE AS POSSIBLE AT ROOF (5' MIN. PREFERRED). ENSURE THAT THEY ARE NO LESS THAN 10' FROM ANY ADJACENT TENANT INTAKE OR RTU.
- •INSTALL GREASE GUARD(S) AROUND UPBLAST EXHAUST FAN(S) FOR HOODS AT ROOF.
- •PROVIDE WATERPROOFING MEMBRANE ALONG ALL KITCHEN WALLS THAT ABUT LEASE LINE/DEMISING WALLS, UP TO 8' A.F.F. AND 8' AWAY FROM WALL, BEHIND/UNDER FINISHES (MAPEI, RED GARD, OR SIMILAR), EVEN BEHIND WATER RESISTANT FINISHES. PROVIDE PHOTOGRAPHIC EVIDENCE OF INSTALLATION.
- •SEAL AROUND ALL REAR DOORS, ESPECIALLY IN KITCHEN AREAS.
- •COOLERS/FREEZERS TO BE 4" MINIMUM FROM DEMISING (LEASE LINE) AND EXTERIOR WALLS, AND 2' MINIMUM FROM TENANTS INTERIOR WALLS, WITH MOISTURE AND MOLD RESISTANT WALL BOARD AND WATERPROOFING MEMBRANE BEHIND.
- •PROVIDE STRUCTURAL REINFORCEMENT FOR THE HOOD EXHAUST FAN (ROOF) OPENINGS.
- •GREASE REFILL AND WASTE IS PREFERRED TO BE ON A CLOSED LOOP SYSTEM (SIMILAR TO RESTAURANT TECHNOLOGIES), REFILL AND REMOVAL BOX SHALL BE RECESSED WITHIN REAR WALL.

GREASE INTERCEPTOR

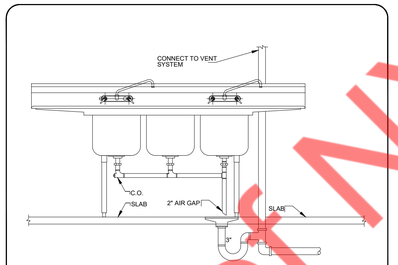
- •ENSURE GREASE TRAP IS DEEP ENOUGH FOR PROPER PAVEMENT THICKNESSES FOR HEAVY VEHICULAR TRAFFIC, WHILE MAINTAINING PROPER SLOPES.
- •RETURN PAVEMENT AND ALL SURFACES TO LIKE-NEW CONDITION.
- •VENT TO BE THROUGH ROOF, USING LL REQUIRED ROOFER.
- •GREASE WASTE AND SUPPLY ARE PREFERRED TO BE A CLOSED LOOP SYSTEM, TANKS STORED WITHIN PREMISES.

PLUMBING REQUIREMENTS

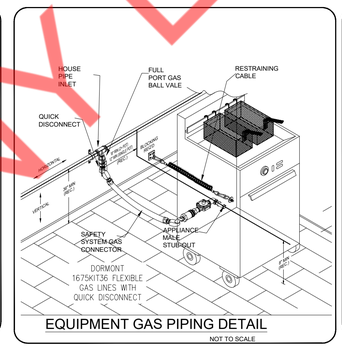
- •ANY BELOW GRADE WATER LINES TO BE PEX (NO JOINTS BELOW GRADE) AND SLEEVED, OR AS PER AHJ.
- •ALL FLOOR DRAINS/SINKS TO HAVE A TRAP PRIMER OR TRAP GUARD.
- •PROVIDE FOG'S AT ANY SANITARY SEWER AND GREASE LINE CONNECTIONS TO THE MAIN LINE (OR EXISTING RISERS).
- •EXTEND VTRS (NEW & EXISTING) TO ALIGN WITH NEAREST PARAPET HEIGHT OR 60" ABOVE ROOF SURFACE, WHICHEVER IS LOWER.
- •CONSOLIDATE SEWER LINES (SAN. & GREASE) AND OTHER BELOW GRADE UTILITIES/INFRASTRUCTURE INTO AS FEW TRENCHES (12" MIN.) AND BRANCH LINES AS POSSIBLE, OR AS PER AHJ, AND REINFORCE AS PER LL'S COMMENTS.
- •WATER LINES WITHIN DEMISING WALLS TO BE COPPER, PEX, OR PER AHJ, WHICHEVER IS MORE STRINGENT.
- •ENSURE WATER SUBMETER IS IN WORKING ORDER AND REPAIR/REPLACE AS NECESSARY. IF ONE IS NOT ALREADY IN PLACE, PROVIDE AND INSTALL WATER SUBMETER, AS PER PROPERTY MANAGEMENT'S REQUIREMENTS; PLACE IMMEDIATELY WHERE WATER LINE ENTERS THE PREMISES, WITH SHUTOFF VALVE TO IMMEDIATELY FOLLOW, MUST HAVE A NON-RESETTABLE, REMOTE READER, PLACED AT A LEVEL THAT CAN BE READ WITHOUT USE OF A LADDER OR STEPSTOOL, AND HAVE A MULTIPLIER OF 1.

GAS & MISC. REQUIREMENTS

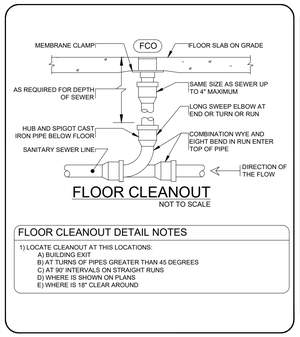
- •COORDINATE ANY GAS LINE ROUTING FROM METER WITH LANDLORD REP. GAS LINES MUST PASS THROUGH PROVIDED OPENINGS IN PARAPET WALL, AND NOT OVER TOP (UNLESS OTHERWISE NOTED BY PROP. MGR.). RUN GAS LINE OVER HALLWAYS OR SHARED SPACES WHEN AVAILABLE, OR AT VERY FRONT/REAR OF BUILDING WHEN NOT.
- •GAS LINE SUPPORTS MUST HAVE SLIP SHEETS (NEOPRENE OR TPO MATERIAL) UNDER EACH FOR ROOF PROTECTION.
- •EXTERIOR GAS LINE(S) MUST BE PAINTED TO MATCH EXISTING WALL FINISH OF BUILDING AND PAINTED PER CODE ON ROOFTOP.
- •GAS LINES WHICH EXTEND VERTICALLY BELOW DECK (THROUGH ATTIC SPACE) SHALL NOT HAVE JOINTS WITHIN ATTIC SPACE OR WALL CAVITIES. WALL CAVITIES WITH GAS LINES WITHIN SHALL BE VENTED TO AN OCCUPIABLE SPACE (NOT VENTED TO ATTIC SPACE).
- •GAS LINE DIRT LEGS AND CONDENSATION P-TRAPS TO BE 2" MIN. CLEAR OF ANY SURFACE, INCLUDING ROOF MEMBRANE.



RECESSED FLUSH IN FLOOR WITH FLOOR SINK
NOT TO SCALE



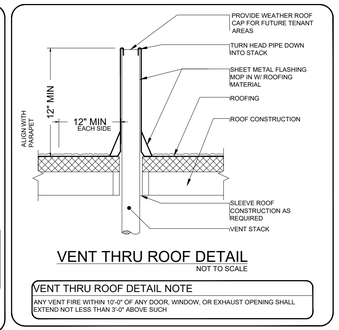
EQUIPMENT GAS PIPING DETAIL
NOT TO SCALE



FLOOR CLEANOUT
NOT TO SCALE

FLOOR CLEANOUT DETAIL NOTES

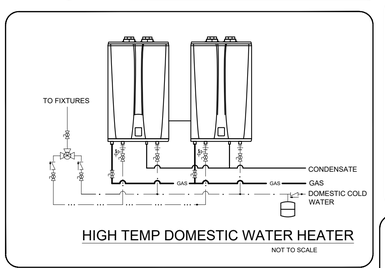
1) LOCATE CLEANOUT AT THIS LOCATIONS:
A) BUILDING EXIT
B) AT TURNS OF PIPES GREATER THAN 45 DEGREES
C) AT 90' INTERVALS ON STRAIGHT RUNS
D) WHERE IS SHOWN ON PLANS
E) WHERE IS 18" CLEAR AROUND



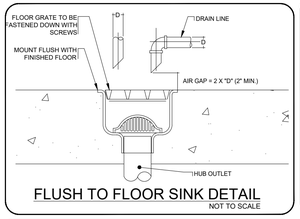
VENT THRU ROOF DETAIL
NOT TO SCALE

VENT THRU ROOF DETAIL NOTE

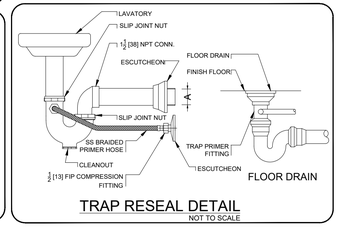
ANY VENT FIRE WITHIN 10'-0" OF ANY DOOR, WINDOW, OR EXHAUST OPENING SHALL EXTEND NOT LESS THAN 3'-0" ABOVE SUCH



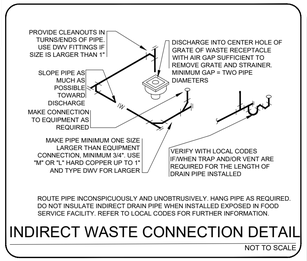
HIGH TEMP DOMESTIC WATER HEATER
NOT TO SCALE



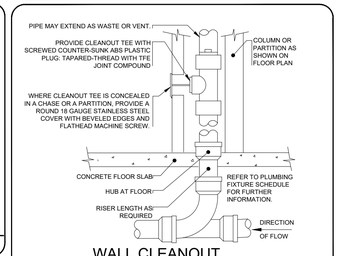
FLUSH TO FLOOR SINK DETAIL
NOT TO SCALE



TRAP RESEAL DETAIL
NOT TO SCALE



INDIRECT WASTE CONNECTION DETAIL
NOT TO SCALE



WALL CLEANOUT
NOT TO SCALE

WALL CLEANOUT DETAIL NOTES

1) PROVIDE WCO WHERE SHOWN ON PLANE, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT
2) LOCATE ABOVE FIXTURE FLOOR RIM WITHIN 4' OF FLOOR.
3) CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.
4) LONG SWEEP AT END OF LINE OR COMBINATION WYE AND EIGHT BEND IN RUN OF LINE
5) CLEAN OUT FACE SHALL BE WITHIN 4" OF WALL SURFACE. PROVIDE A PIPE EXTENSION IF REQUIRED
6) REFER TO PLUMBING FIXTURE SCHEDULE FOR FUTHER INFORMATION FOR (WCO)

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GENERAL NOTES & DETAILS

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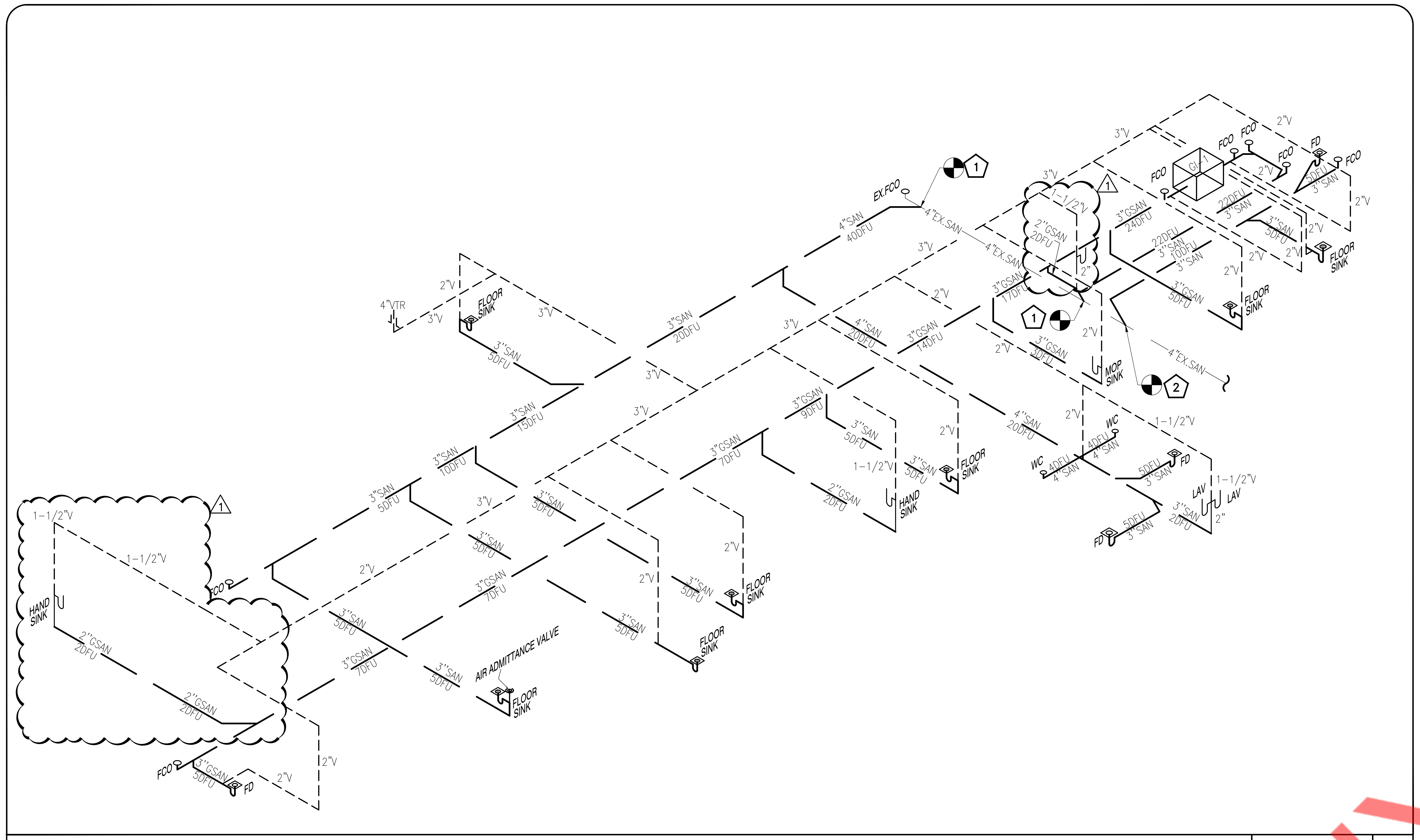


SANITARY RISER

SCALE	2
N.T.S.	

KITCHEN EQUIPMENT PLUMBING SCHEDULE

					WATER		WASTE	
Item No.	Qty.	Description	Manufacturer	Model	HOT	COLD	Direct	Indirect
8	3	HAND SINK	ADVANCE TABCO	7-PS-23	1/2"	1/2"	2"	
	2	THERMOSTATIC MIXING VALVES	WATTS	LFMMV	1/2"	1/2"		
4	2	HOT WELL	VOLLRATH	38117				3/4"
15	1	ICE MAKER	MANITOWOC	IDT0450A		3/8"		1/2"
17	1	3 COMPARTMENT SINK	ADVANCE TABCO	FC-3-1824-24RL-X				3@2"
17a1	1	FAUCET	ADVANCE TABCO	DTA-53	1/2"	1/2"		
17 a2	1	FAUCET	ADVANCE TABCO	K-117				
23	1	ONE COMPARTMENT SINK	ADVANCE TABCO	FE1-1812-18RL-X	1/2"	1/2"		2"
24	1	MOP SINK	MUSTEE	11U264	1/2"	1/2"	3"	
WH-1	2	WATER HEATER	NAVIEN	NPE-240	3/4"	3/4"		
		FLOOR SINKS	ZURN	FD2375-NH3			3"	
		FLOOR DRAINS*	ZURN	ZS415 W/ TYPE BS STRAINER			3"	

+ HOT WATER 140 DEG

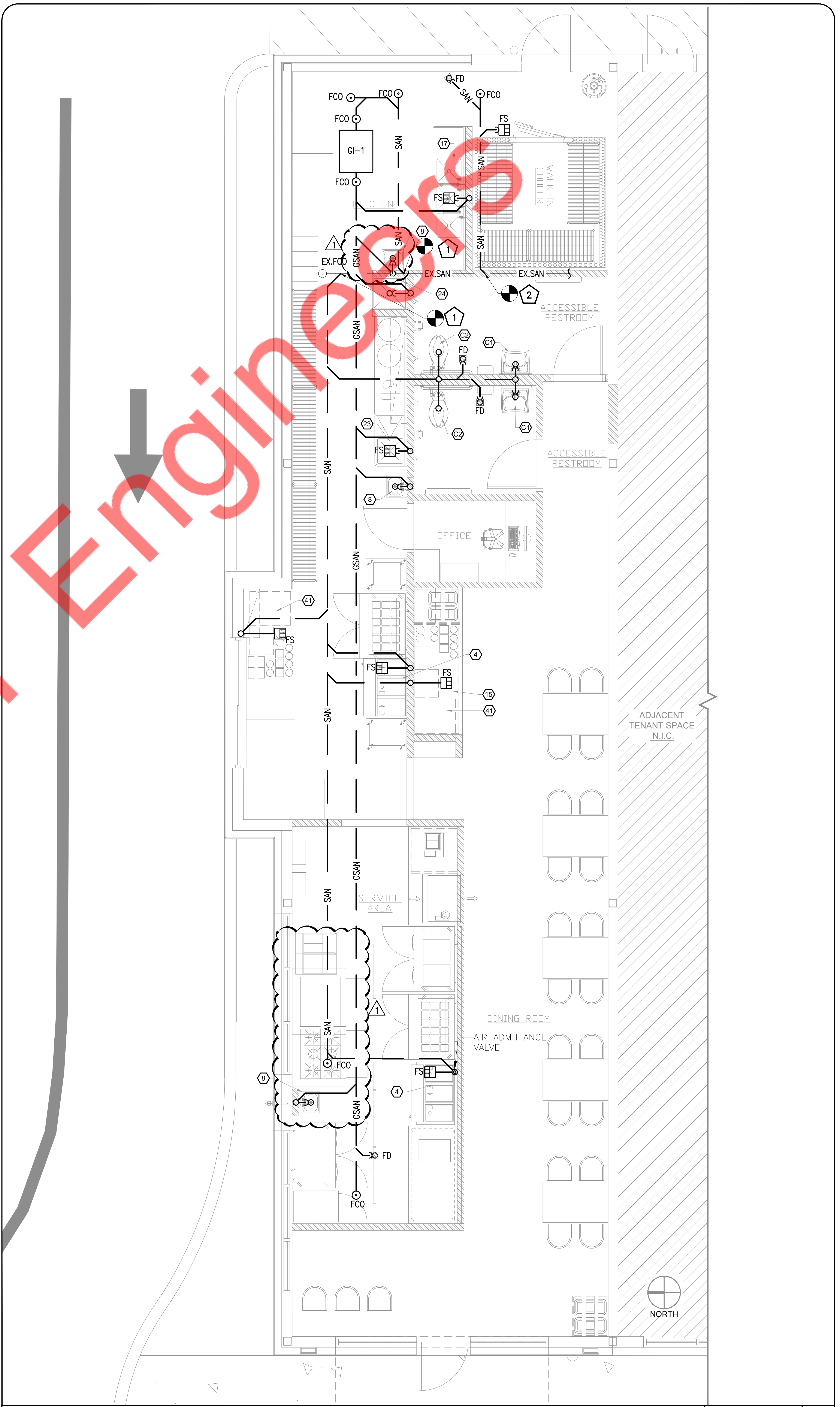
*PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS

BATHROOM PLUMBING SCHEDULE

					WATER		WASTE	
Item No.	Qty.	Description	Manufacturer	Model	Hot	Cold	Direct	
C1	2	LAVATORY	WS BATH	60.50A			2"	
	2	LAVATORY FAUCET	AMERICAN STANDARD	775B.103	1/2"	1/2"		0.35 GPM
	2	THERMOSTATIC MIXING VALVE	WATTS	LFMMV	1/2"	1/2"		
	2	INSULATED PLUMBING COVERS	LAV GUARD	102				
C2	2	WATER CLOSET	AMERICAN STANDARD	3641.001		1"	4"	1.28 GPF

SANITARY PLAN KEY NOTE

1. CONNECT NEW 4" SANITARY WASTE PIPING TO EXISTING SANITARY WASTE LINE OF ADEQUATE SIZE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, ROUTING AND INVERT ON SITE.
2. CONNECT NEW 3" SANITARY WASTE PIPING TO EXISTING SANITARY WASTE LINE OF ADEQUATE SIZE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, ROUTING AND INVERT ON SITE.



SANITARY PLAN

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

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PLUMBING
SANITARY PLAN,
RISER & NOTES

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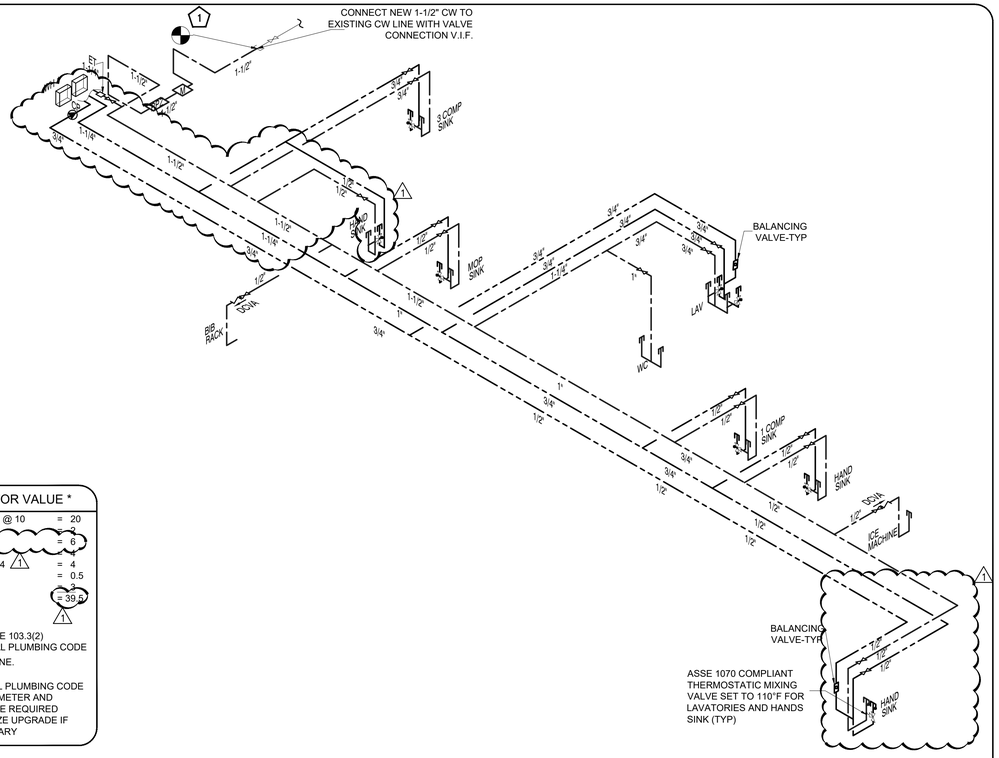


FIXTURE FACTOR VALUE *	
2 WATER CLOSETS (N) @ 10	= 20
2 LAVATORIES (N) @ 1	= 2
3 HAND SINKS (N) @ 2	= 6
1 - Comb Sink @ 4 ⚠1	= 4
1 - 3 COMP SINK (N) @ 4 ⚠1	= 4
**MISC. @.25	= 0.5
1 MOP SINK (N) @ 3	
TOTAL	= 39.5
	⚠1

* PER TABLE E 103.3(2)
IN 2015 INTERNATIONAL PLUMBING CODE

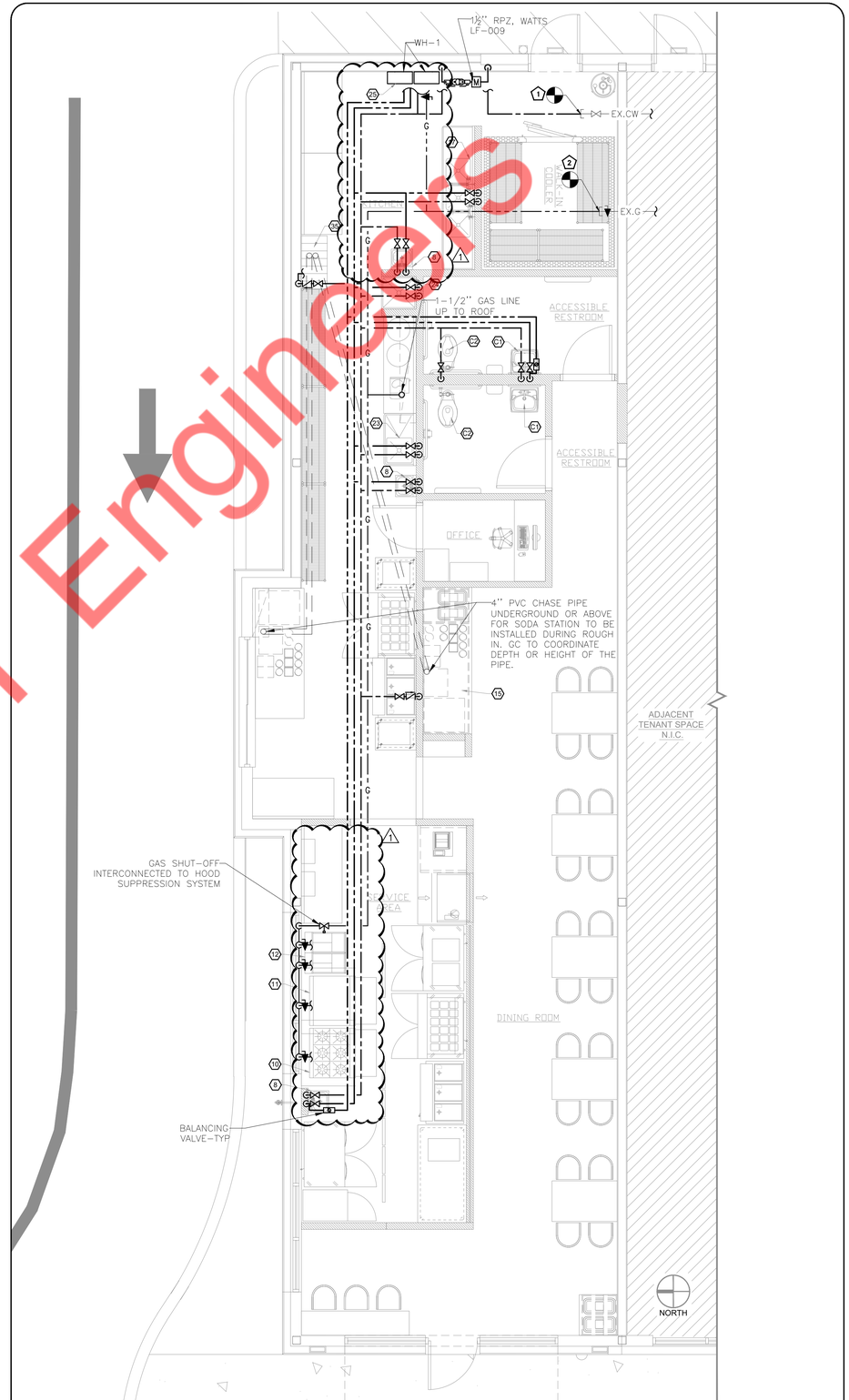
** BIB RACK, ICE MACHINE.

*2015 INTERNATIONAL PLUMBING CODE
1-1/2" Ø WATER METER AND
MIN. 1-1/2" Ø LINE REQUIRED
VERIFY METER SIZE UPGRADE IF
NECESSARY

WATER RISER | SCALE N.T.S. | 2

DOMESTIC WATER AND GAS KEY NOTE

1. CONNECT NEW 1-1/2" CW LINE TO EXISTING WATER MAIN LINE. CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF WATER LINE. PROVIDE RPZ AS PER LOCAL BUILDING CODE IF NOT PROVIDED.
2. CONNECT NEW 2-1/2" GAS LINE TO EXISTING GAS MAIN LINE. CONTRACTOR TO FIELD VERIFY SIZE ,PRESSURE AND LOCATION OF GAS LINE AND METER. UPGRADE IF REQUIRED



WATER AND GAS PLAN | SCALE 1/4" = 1'-0" | 1

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PLUMBING WATER, GAS PLAN, RISER & NOTES

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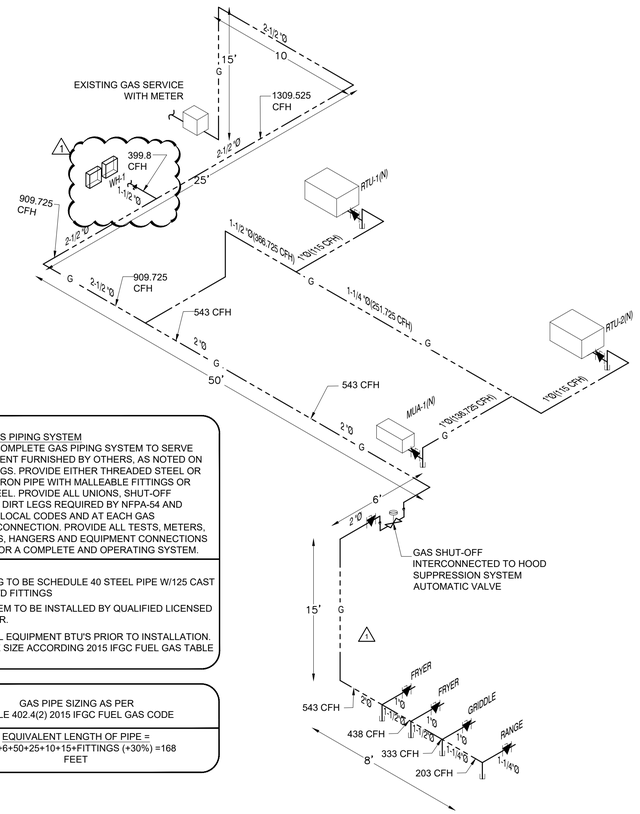


NATURAL GAS PIPING SYSTEM
PROVIDE A COMPLETE GAS PIPING SYSTEM TO SERVE GAS EQUIPMENT FURNISHED BY OTHERS, AS NOTED ON THE DRAWINGS. PROVIDE EITHER THREADED STEEL OR MALLEABLE IRON PIPE WITH MALLEABLE FITTINGS OR WELDED STEEL. PROVIDE ALL UNIONS, SHUT-OFF VALVES AND DIRT LEGS REQUIRED BY NFPA-54 AND GOVERNING LOCAL CODES AND AT EACH GAS APPLIANCE CONNECTION. PROVIDE ALL TESTS, METERS, INSPECTIONS, HANGERS AND EQUIPMENT CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

NOTES:

1. GAS PIPING TO BE SCHEDULE 40 STEEL PIPE W/125 CAST IRON SCREWD FITTINGS
2. GAS SYSTEM TO BE INSTALLED BY QUALIFIED LICENSED CONTRACTOR.
3. VERIFY ALL EQUIPMENT BTU'S PRIOR TO INSTALLATION. ADJUST PIPE SIZE ACCORDING 2015 IFGC FUEL GAS TABLE 402.4(2)

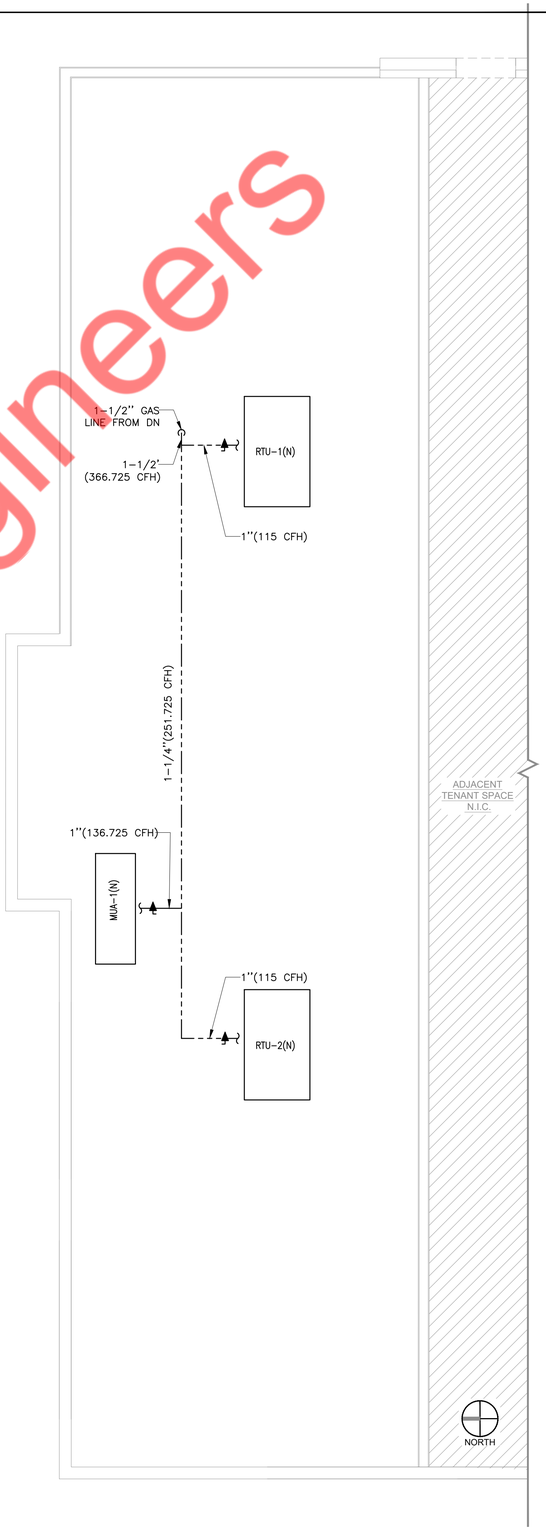
GAS PIPE SIZING AS PER
TABLE 402.4(2) 2015 IFGC FUEL GAS CODE

EQUIVALENT LENGTH OF PIPE =
8+15+6+50+25+10+15+FITTINGS (+30%) =168
FEET

GAS RISER | SCALE N.T.S. | 2

GAS SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER	MODEL	SIZE	BTU/HR.
10	1	RANGE	IMPERIAL	IR-6	1-1/4"	203,000
11	1	GRIDDLE	IMPERIAL	IHR GT-36	1"	130,000
12	2	FRYER	IMPERIAL	IFS-40	1"	210,000
25	2	WATER HEATER	NAVIEN	NPE-240	1-1/2"	399,800
-	1	RTU-1(N)	-	-	1"	115,000
-	1	RTU-2(N)	-	-	1"	115,000
-	1	MUA-1(N)	-	-	1"	136.725
TOTAL LOAD						1,243,525



ROOF GAS PLAN | SCALE 1/4" = 1'-0" | 1

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ROOF GAS PLAN & GAS RISER

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