

LEGEND	
	EXISTING PIPING, DUCTWORK, EQUIPMENT
	NEW PIPING, DUCTWORK, EQUIPMENT
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RECIRCULATION
	HUNG SANITARY DRAIN
	VENT (PLUMBING)
	NATURAL GAS LINE
	CONDENSATE DRAIN
	PIPE CUT
	PIPE UP
	PIPE DOWN
	UNION
	CAP OR PLUG
	SHUT-OFF VALVE
	PRESSURE REDUCING VALVE OR REGULATOR
	SOLENOID VALVE
	GAS VALVE
	FLOOR DRAIN
	COMBINATION DRAIN
	HUB DRAIN
	TRAP
	CLEAN OUT
	GAS OR WATER METER
	HOSE BIBB
	WALL HYDRANT
	SQUARE DIFFUSER X - AIRFLOW (CFM) Y - NECK SIZE
	RETURN OR EXHAUST GRILLE
	GRAVITY BACKDRAFT DAMPER
	BALANCING DAMPER (SINGLE BLADE)
	SPIN ON CONNECTION COMPLETE WITH BALANCING DAMPER
	THERMOSTAT
	TEMPERATURE SENSOR
	DIRECTION OF AIR FLOW
	STARTER

DRAWING LIST			
M101	MECHANICAL SPECIFICATIONS & LEGEND	M301	MECHANICAL SCHEDULES
M201	PLUMBING AND DRAINAGE - DEMOLITION LAYOUT	M302	MECHANICAL DETAILS 1
M202	SANITARY DRAINAGE LAYOUT	M303	MECHANICAL DETAILS 2
M203	PLUMBING LAYOUT	M304-M314	MECHANICAL KITCHEN EXHAUST DETAILS
M204	HVAC DEMOLITION PLAN		
M205	HVAC NEW PLAN		
M206	ROOF DEMOLITION PLAN		
M207	ROOF PLAN		

## GENERAL MECHANICAL SPECIFICATIONS

### SECTION 15A - GENERAL MECHANICAL CONDITIONS

- CONFORM TO INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS AND GENERAL REQUIREMENTS.
- THIS SECTION 15A SHALL APPLY TO ALL DIVISION 15 SECTIONS.
- BEFORE SUBMITTING TENDERS, EXAMINE SITE, EXISTING SERVICES AND ALL DRAWINGS. EXTRAS WILL NOT BE ALLOWED FOR FAILURE TO DO SO.
- PROVIDE ALL LABOUR, MATERIALS AND EQUIPMENT NECESSARY TO EXECUTE THE WORK SHOWN AND DESCRIBED. INSTALLATION OF MATERIALS SHALL MEET ALL APPLICABLE PROVINCIAL, FEDERAL AND MUNICIPAL REQUIREMENTS.
- OBTAIN PERMITS AND PAY ALL FEES FOR WORK AND REQUIRED INSPECTIONS.
- MAINTAIN LIABILITY INSURANCE TO PROTECT OWNER AND THE CONTRACTOR FROM ANY AND ALL CLAIMS UNDER THE WORKER'S COMPENSATION ACT.
- THE DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. ALL MEASUREMENTS SHALL BE TAKEN FROM BUILDING SITE AND ARCHITECT'S DRAWINGS.
- ALL MATERIALS SHALL CONFORM TO CSA, HEPC AND CEC REQUIREMENTS AND SHALL BEAR CSA LABEL, GAS FIRED EQUIPMENT SHALL BEAR CGA LABEL.
- ALL EXISTING SERVICES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THIS CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY LINES, ETC. SO AS TO CARRY OUT THE ABOVE.
- TEMPORARY LIGHT, POWER AND WATER BY GENERAL CONTRACTOR.
- ALL CUTTING AND PATCHING FOR MECHANICAL WORK WILL BE THE RESPONSIBILITY OF THIS SUB-CONTRACTOR. HIRE SPECIALIZED TRADES TO DO THIS WORK.
- PROVIDE TEMPORARY BUILDINGS AND MATERIAL STORAGE AS REQUIRED AND BE RESPONSIBLE FOR ANY LOSS OR DAMAGE THERETO.
- SUBMIT SAMPLES OF MATERIALS WHEN REQUIRED.
- SUBMIT SHOP DRAWINGS FOR REVIEW COVERING MAJOR MANUFACTURED ITEMS, I.E. FANS, PLUMBING FIXTURES, AC UNITS, GAS HEATERS, HOT WATER TANK, GRILLES, DIFFUSERS, KITCHEN HOODS, FIRE SUPPRESSION SYSTEM, ETC.
- WHERE SUBSTITUTIONS ARE MADE FOR EQUIPMENT SPECIFIED BY NAME OR MODEL NUMBER, BE FULLY RESPONSIBLE FOR CAPACITIES AS WELL AS PHYSICAL FIT OF SUBSTITUTED MATERIALS.
- SUPPLY AND LOCATE ALL BASES, SUPPORTS, SLEEVES, CURBS, ETC. REQUIRED FOR THIS WORK. FLASHING BY ROOF TRADES. COUNTERFLASHING BY THIS CONTRACTOR.
- UNLESS OTHERWISE NOTED, ALL MOTORS 1/2 HP AND UNDER SHALL BE 115/1/60, MOTORS OVER 1/2 HP SHALL BE OF 3 PHASE VOLTAGE AVAILABLE ON PROJECT.
- SUPPLY PROPER STARTERS WITH OVERLOAD PROTECTION AND DISCONNECT SWITCHES FOR POWERED MECHANICAL EQUIPMENT AND HAND OVER TO ELECTRICAL CONTRACTOR FOR INSTALLATION. THIS DOES NOT INCLUDE ISOLATION SWITCHES, UNLESS STATED SPECIFICALLY.
- ALL POWER WIRING BY ELECTRICAL CONTRACTOR, CONTROL AND INTERLOCK WIRING BY MECHANICAL CONTRACTOR. CONTROL WIRING IN RETURN AIR CEILING SPACES SHALL BE FT-6 OR INSTALLED IN CONDUIT.
- SUPPLY AND INSTALL ALL NECESSARY ACCESS DOORS FOR MECHANICAL EQUIPMENT. WHERE NECESSARY, DOORS SHALL BE RATED TO SUIT FIRE ASSEMBLY RATING.
- DO ALL EXCAVATING AND BACKFILL FOR MECHANICAL WORK.
- BACKFILL FROM BOTTOM OF TRENCH, AROUND PIPE AND TO 24" ABOVE PIPE SHALL BE CLEAN SAND, COMPACTED MECHANICALLY IN 6" LAYERS TO 98% MODIFIED PROCTOR DENSITY. REMAINDER OF TRENCH SHALL BE BACKFILLED UTILIZING NATIVE MATERIAL COMPACTED IN 6" LAYERS.
- ALL UNSUED EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.
- PIPE HANGERS SHALL BE CLEVIS SPLIT TYPE WITH MILD STEEL RODS. FOR COPPER PIPE, USE PLASTIC INSERTS. USE OVERSIZED HANGERS AND SADDLES FOR COLD WATER PIPING. DO NOT SUPPORT EQUIPMENT, DUCTS OR PIPING FROM ROOF DECK WITHOUT PERMISSION FROM ARCHITECTS. SUPPLY AND INSTALL NECESSARY STEEL TO TRANSFER LOAD TO STRUCTURAL MEMBERS.
- ALL DISSIMILAR METAL (STEEL-COPPER, ETC.) SHALL BE SEPARATED USING GASKETS AND INSULATING WASHERS OR WATTS "DI-ELECTRIC" FITTINGS.
- INSTALL CHROME-PLATED ESCUTCHEONS WHERE BRANCH PIPES PASS THROUGH FINISHED SURFACE.
- KEEP ACCURATE RECORD OF "AS-BUILT" DRAWINGS AND SUBMIT THESE BEFORE FINAL CERTIFICATE OF COMPLETION. BURIED SERVICES MUST BE DIMENSIONED.
- ALL SURFACES MUST BE LEFT CLEAN AND SMOOTH, READY FOR PAINTING BY GENERAL TRADES.
- IDENTIFY ALL PIPING. USE STENCILS OR COLOUR CODES AND DIRECTIONAL ARROWS.
- IDENTIFY ALL FANS, STARTERS, REMOTE CONTROL AND ALL OTHER EQUIPMENT AS TO SERVICE BY A BLACK LAMACOD ENGRAVED NAMEPLATE WITH WHITE CORE, FIRMLY AFFIXED WITH SCREWS TO EACH UNIT.
- ON COMPLETION OF THE WORK, REMOVE FROM THE PREMISES ALL TOOLS, DEBRIS, SURPLUS AND WASTE MATERIALS RESULTING FROM OPERATIONS UNDER THIS SECTION. CLEAN ALL EQUIPMENT AND LEAVE ALL ITEMS IN PERFECT ORDER READY FOR OPERATION.
- AFTER ACCEPTANCE, INSTRUCT OWNER IN EQUIPMENT OPERATION AND PROVIDE HIM WITH OPERATING AND MAINTENANCE MANUALS STANDARDS AND EXTENDED WARRANTY DOCUMENTS, INSPECTION CERTIFICATES AND COPIES OF SHOP DRAWINGS OF INSTALLED EQUIPMENT.
- THE CONTRACTOR SHALL, BEFORE FINAL PAYMENT IS MADE, GUARANTEE ALL MATERIALS AND WORKMANSHIP SUPPLIED BY HIM IN THE PERFORMANCE OF THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND SHALL, WHEN CALLED UPON, MAKE GOOD WITHOUT FURTHER COST TO THE OWNER SUCH DEFECTS AS MAY APPEAR WITHIN THIS PERIOD.
- SCAN SLAB PRIOR TO ANY DRILLING, CORING OR TRENCHING FOR NEW MECHANICAL WORK. UNDER NO CIRCUMSTANCES WILL DRILLING OR CUTTING OF FLOOR, WALL OR ROOF OF THE STRUCTURE BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF LANDLORD.
- ALL EQUIPMENT, DUCTWORK AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE SMACNA CODE "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEM AND PLUMBING PIPING SYSTEM", AND LOCAL CODES. PROVIDE SLACK CABLE RESTRAINTS OR OTHER APPROVED SYSTEM AS REQUIRED BY CODE.

### SECTION 15B - WARM AIR HEATING, VENTILATING AND AIR CONDITIONING

- SUPPLY AND INSTALL ALL HEATING, VENTILATION AND AIR HANDLING EQUIPMENT AS SHOWN ON DRAWINGS.
- SUPPLY AND INSTALL DUCTWORK AS INDICATED ON DRAWING. DUCTWORK SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH LATEST SMACNA STANDARDS AND SHALL BE MANUFACTURED OF GALVANIZED STEEL UNLESS SPECIFICALLY NOTED OTHERWISE. DUCTWORK TO HAVE GALVANNEAL "SATIN COAT" FINISH WHERE IT IS TO BE PAINTED.
- INSTALL MANUAL BALANCING DAMPERS AT ALL BRANCH TAKEOFFS AND IN OTHER LOCATIONS WHERE NECESSARY FOR SYSTEM BALANCING.
- FLEXIBLE DUCTS SHALL BE ALUMINUM HELICALLY WOUND SPIRAL DUCT, EQUAL TO FLEXMASTER T/L, MAXIMUM 10 FT. LENGTH, PROVIDE ACOUSTIC FLEX EQUAL TO FLEXMASTER MODEL T/L-A, WHERE DUCTS ARE TO BE INTERNALLY INSULATED.
- INSTALL 6" (150MM) APPROVED FLEXIBLE CONNECTOR ON DUCT CONNECTIONS TO RESILIENTLY MOUNTED FANS.
- WHERE SHOWN, DUCTWORK SHALL BE LINED INTERNALLY WITH (1") FACED FLEXIBLE DUCT LINER. SHOWN SIZES ARE CLEAR INSIDE DIMENSIONS, INCREASE DUCT SIZE ACCORDINGLY. SIMILARLY LINE SUPPLY AND RETURN DUCTS 10 FT (3M) FROM ALL HUNG AC UNITS.
- SUPPLY ALL GRILLES AND DIFFUSERS AS SHOWN ON DRAWINGS AND LISTED IN SCHEDULE.
- KITCHEN EXHAUST DUCTWORK SHALL BE 16 GAUGE WELDED CARBON STEEL. INSTALLATION, CLEARANCES AND FAN ARRANGEMENT SHALL BE IN ACCORDANCE WITH CBC AND NFPA 96.
- KITCHEN EXHAUST DUCTWORK SHALL BE WRAPPED IN 2 LAYERS OF ULC LISTED 3M FIRE DUCT WRAP WHERE 18" TO COMBUSTIBLE CANNOT BE MAINTAINED.
- SUPPLY AND INSTALL GAS VENTS FOR ALL GAS FIRED EQUIPMENT.
- THE REFRIGERANT LINES SHALL BE SIZED FOR A PRESSURE DROP OF NOT MORE THAN 14 KPA (2 PSI). REFRIGERANT PIPE SHALL BE TYPE L NITROGEN CHARGED ACR GRADE COPPER WITH FORGED BRASS OR WROUGHT COPPER REFRIGERATION FITTINGS. ALL JOINTS SHALL BE BRAZED. SAE FLARED FITTINGS ARE NOT ACCEPTED.
- PROVIDE SIGHT GLASSES FOR ALL LIQUID LINES AND SPORAN LIQUID LINE DRIERS AHEAD OF EACH THERMO EXPANSION VALVE. PROVIDE SOLENOID VALVE AHEAD OF EACH EXPANSION VALVE. SUCTION LINES SHALL BE PROPERLY LOOPED IN ORDER TO ALLOW THE RETURN OF OIL TO RETURN TO THE COMPRESSOR. PROVIDE NECESSARY WIRING TO OPERATE CONDENSER AND DX SOLENOID.
- REFRIGERANT SUCTON LINES SHALL BE INSULATED WITH 3/4" (19MM) THICK ARMAFLEX INSULATION, WITH CEMENTED JOINTS. LIQUID LINES OUTDOORS EXPOSED TO SUNLIGHT SHALL ALSO BE SIMILARLY INSULATED. COVER EXTERIOR INSULATION WITH ALUMINUM JACKETING.
- INCLUDE FOR STARTUP OF HVAC UNITS AND ALL OTHER AIR HANDLING EQUIPMENT.
- EXHAUST DUCTWORK WITHIN 5 FT. (1500MM) OF A WALL SHALL BE EXTERNALLY INSULATED WITH 1-1/2" (38MM) THICK FOIL FACED FIBREGLASS AND ALL OUT SIDE AIR INTAKE DUCTWORK DUCT INSULATION (R-5), APPLY USING RECOMMENDED ADHESIVE AND TAPE ALL JOINTS USING VAPOUR BARRIER TAPE. ALL AIR CONDITIONED SUPPLY DUCTWORK, UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE INSULATED IN A SIMILAR MANNER USING 1" MATERIAL.
- ADJUST ALL FAN SPEEDS TO DELIVER SHOWN AIR QUANTITIES. BALANCE ALL AIR SYSTEMS AND SUPPLY WRITTEN AIR BALANCING REPORTS IN TRIPLICATE. INCLUDE NECESSARY SPARE BELTS PULLEYS FOR FIELD ADJUSTMENT AND REPLACEMENT OF FILTERS. SET AIR SYSTEMS CONTROLS AND DEMONSTRATE OPERATION TO OWNER'S REPRESENTATIVE.
- PROVIDE ALL MOTORIZED DAMPERS TO OPEN AND CLOSE AS RESPECTIVE FANS START & STOP.
- ALL DUCWORK EXPOSED IN DINING AREA TO HAVE GALVANIZED SURFACE FINISH.

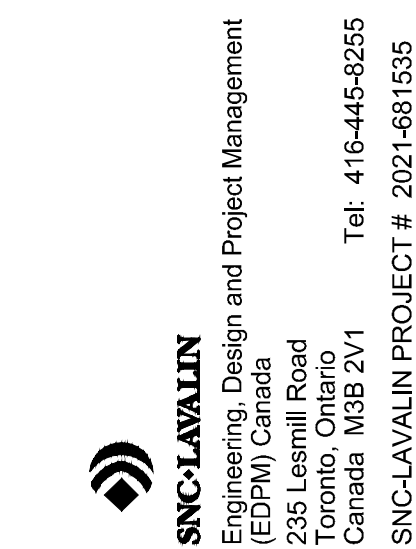
### SECTION 15C - PLUMBING AND DRAINAGE INSIDE THE BUILDING

- ALL WORK SHALL BE EXECUTED BY LICENSED PLUMBERS.
- ALL PLUMBING AND DRAINAGE WORK SHALL BE INSTALLED AS REQUIRED BY THE BRITISH COLUMBIA BUILDING CODE, REVISED TO DATE, AND SHALL MEET THE REQUIREMENTS OF ALL PROVINCIAL AND MUNICIPAL AUTHORITIES HAVING JURISDICTION.
- INCLUDE ALL PIPING, FITTINGS AND EQUIPMENT SHOWN ON DRAWINGS OR DESCRIBED IN SPECIFICATIONS. ALL ITEMS NOT MENTIONED BUT UNDERSTOOD TO BE NECESSARY TO COMPLETE THE PLUMBING SYSTEM SHALL BE INCLUDED.
- MAKE ALL NECESSARY CONNECTIONS TO EXISTING SERVICES.
- BURIED SANITARY DRAINAGE AND VENT PIPE AND FITTINGS UP TO 3" DIAMETER SHALL BE IPEX ABS-DWV. PIPE AND FITTINGS 3" AND GREATER SHALL BE IPEX BDS PVC SOLVENT WELD SEWER PIPE.
- ABOVE GROUND SANITARY DRAINAGE AND VENT PIPE AND FITTINGS SHALL BE CAST IRON CLASS 4000 WITH MECHANICAL JOINTS, FACTORY COATED WITH RAW LINSEED OIL OR TYPE DWV HARD DRAWN COPPER WITH DRAINAGE TYPE CAST BRONZE OR WROUGHT COPPER SOLDER FITTINGS.
- ABOVE GROUND WATER PIPING SHALL BE TYPE 'L' COPPER WITH 95/5 SOLDER JOINTS.
- VALVES UP TO 2" (50MM) SHALL BE FULL THROAT BRONZE BALL VALVES.
- SUPPLY AND INSTALL ALL GREASE INTERCEPTOR, PLUMBING FIXTURES, CLEANOUTS, HOSE BIBB, FLOOR DRAINS, COMBINATION DRAINS, WATER HEATERS, ETC. AS SHOWN ON DRAWINGS AND LISTED IN SCHEDULES.
- CLEANOUTS SHALL BE INSTALLED AS REQUIRED BY CODE AND WHERE SHOWN AND SHALL SUIT FLOORING MATERIAL.
- CONNECT TO EXISTING GAS SERVICE. ENTIRE INSTALLATION SHALL BE AS STATED IN NATURAL GAS AND PROPANE INSTALLATION CODE CAN/CSA B-149-1.00.
- ALL EXTERIOR GAS PIPING TO BE PAINTED TO MATCH EXTERIOR WALL AND FURTHER IDENTIFIED AS REQUIRED BY GAS CODE. ALL GAS PIPING ON ROOF SHALL BE PAINTED YELLOW.
- SUPPLY AND INSTALL ALL HOT AND COLD WATER, WASTE AND VENT CONNECTIONS REQUIRED IN THE KITCHEN AREA, AND IN ANY OTHER LOCATIONS WHERE SHOWN OR REQUIRED FOR ALL ITEMS SHOWN ON MECHANICAL OR ARCHITECTURAL DRAWINGS, INCLUDING "NOT-IN-CONTRACT" (N.I.C.) ITEMS. "CASH ALLOWANCE" ITEMS, "SUPPLIED BY OWNERS" (S.B.O.) ITEMS. THIS INCLUDES UNDER COUNTER DISHWASHERS, WASHERS, ICE MAKERS, CONDENSER UNITS ETC. COOPERATE WITH ALL OTHER TRADES TO THE EXTENT OF PROPERLY LOCATING ANY CONNECTIONS THEY REQUIRE AND CONNECT UP COMPLETE TO ALL PIECES OF APPARATUS SO SERVED, INSTALLING A VALVE ON EACH WATER AND GAS CONNECTION CLOSE TO EACH PIECE OF APPARATUS. INSTALL A CAST BRASS TRAP WITH CLEANOUT AND VENT ON THE WASTE CONNECTIONS, UNLESS WASTE DISCHARGES INTO A FLOOR DRAIN, HUB OR COMBINATION DRAIN. INCLUDE PIPING FROM APPARATUS WASTE CONNECTION TO SUCH OPEN DRAINS IN THE LATTER CASE. FINAL HOOKUP OF ALL EQUIPMENT BY PLUMBING CONTRACTOR.
- DOMESTIC COLD AND HOT WATER PIPING SHALL BE INSULATED WITH 1" (25MM) THICK FIBREGLASS PIPE INSULATION WITH ASA. USE 1-1/2" (40MM) MATERIAL FOR PIPING 2" AND OVER. IN EXPOSED AREAS FINISH WITH PVC. JACKETING. INSULATE ALSO COLD WATER METERS.
- SUPPLY AND INSTALL ALL FIRE EXTINGUISHERS AS REQUIRED BY CODE.
- SEE FIXTURE SCHEDULE FOR PLUMBING FIXTURE TYPES.
- SUPPLY AND INSTALL WHEEL HANDLE OR SCREW FIXTURES STOP VALVE ON THE HOT AND COLD WATER SUPPLY TO EVERY FIXTURE ON THE JOB, IN ADDITION TO THE VALVE OR FAUCET ON THE FIXTURE ITSELF.
- PROTECT ALL FIXTURES UNTIL HANDED OVER TO THE OWNER. ALL FIXTURES SHALL BE COMPLETE WITH NECESSARY TRIM, TRAP SUPPLIES, STOPS, TAIL PIECES, TRAPS, GASKETS, ETC.
- ALL EXISTING DRAIN LINES TO BE PRESSURE WASHED AND VIDEO INSPECTED BY PLUMBING CONTRACTOR, PRIOR TO COMMENCEMENT OF WORK.
- ALL FLOOR DRAINS, HUB DRAINS, TO BE TRAPPED, PRIMED AND VENTED AS PER CODE.

### SECTION 15D - SPRINKLERS

- ALTER THE EXISTING SPRINKLER SYSTEM TO SUIT THE REVISED LAYOUT.
- THIS IS PERFORMANCE SPECIFICATION ONLY. PREPARE SPRINKLER SHOP DRAWINGS FOR SUBMISSION TO ENGINEER, UNDERWRITERS AND BUILDING DEPARTMENT FOR APPROVAL PRIOR TO INSTALLATION. ENGINEERS DRAWINGS INDICATE GENERAL AREAS TO BE SPRINKLERED ONLY.
- SYSTEM SHALL BE COMPLETE WITH ALL NECESSARY PIPING, HANGERS, HEADS, DRIPS, DRAINS, TEST CONNECTIONS, SPARE SPRINKLERS, ETC., ALL IN STRICT ACCORDANCE WITH STANDARDS AS STIPULATED IN THE NATIONAL FIRE PREVENTION ASSOCIATION NFPA 13 AS REVISED TO DATE AND/OR AS APPROVED BY THE LOCAL FIRE DEPARTMENT AND BUILDING DEPARTMENT.
- IN GENERAL, SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH "ORDINARY (LIGHT) HAZARD OCCUPANCY" STANDARDS.
- ALL HEADS UNLESS NOTED OTHERWISE SHALL BE EQUAL TO GRINNELL "DURO SPEED".
- WHERE SUSPENDED CEILING OCCUR, HEADS SHALL BE CHROME PLATED SEMI-RECESSED PENDANT TYPE WITH CHROME ESCUTCHEON. WHERE DRYWALL CEILING OCCUR, HEADS SHALL BE BRONZE CONCEALED PENDANT TYPE WITH COVER PLATE. ALL PIPING SHALL BE CONCEALED ABOVE CEILING. IN EXPOSED AREAS WITH NO CEILING, HEADS SHALL BE UPRIGHT TYPE WITH PLAIN BRONZE FINISH. SUBMIT SAMPLES TO ARCHITECT FOR APPROVAL BEFORE INSTALLATION.
- PROVIDE FREEZE-PROOF DRY PENDANT SPRINKLER HEADS WITH GUARDS IN WALK-IN COOLER.
- CONTRACTOR SHALL PAY ALL NECESSARY CHARGES HE INCURS FROM UNDERWRITERS FOR THEIR REVIEW OF THESE DRAWINGS.
- CAPTIVE/PCU/ECOLOGY UNIT SHALL COMPLETE WITH "PCU CORE FIRE PROTECTION SPRINKLER SYSTEM". SPRINKLER CONTRACTOR SHALL COORDINATE WITH CAPTIVE/PCU FOR THE DESIGN AND INSTALLATION SCOPE FOR THIS SYSTEM.

Consultant:



COPYRIGHT 2019  
THIS DRAWING IS AN INSTRUMENT OF SERVICE  
AND AS SUCH REMAINS THE PROPERTY OF  
CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR  
USE OF THIS DOCUMENT IS LIMITED AND CAN BE  
EXTENDED ONLY BY WRITTEN AGREEMENT WITH  
CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
610 NEWPORT CENTER DR. SUITE 1300  
NEWPORT BEACH, CA, 92660  
TELEPHONE: 714.264.7392  
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
RICHMOND CENTRAL  
4720 MCCLELLAND RD., UNIT #1845  
RICHMOND, V6X 0M6  
B.C., CANADA

DESIGN BULLETIN: DB-06/2021

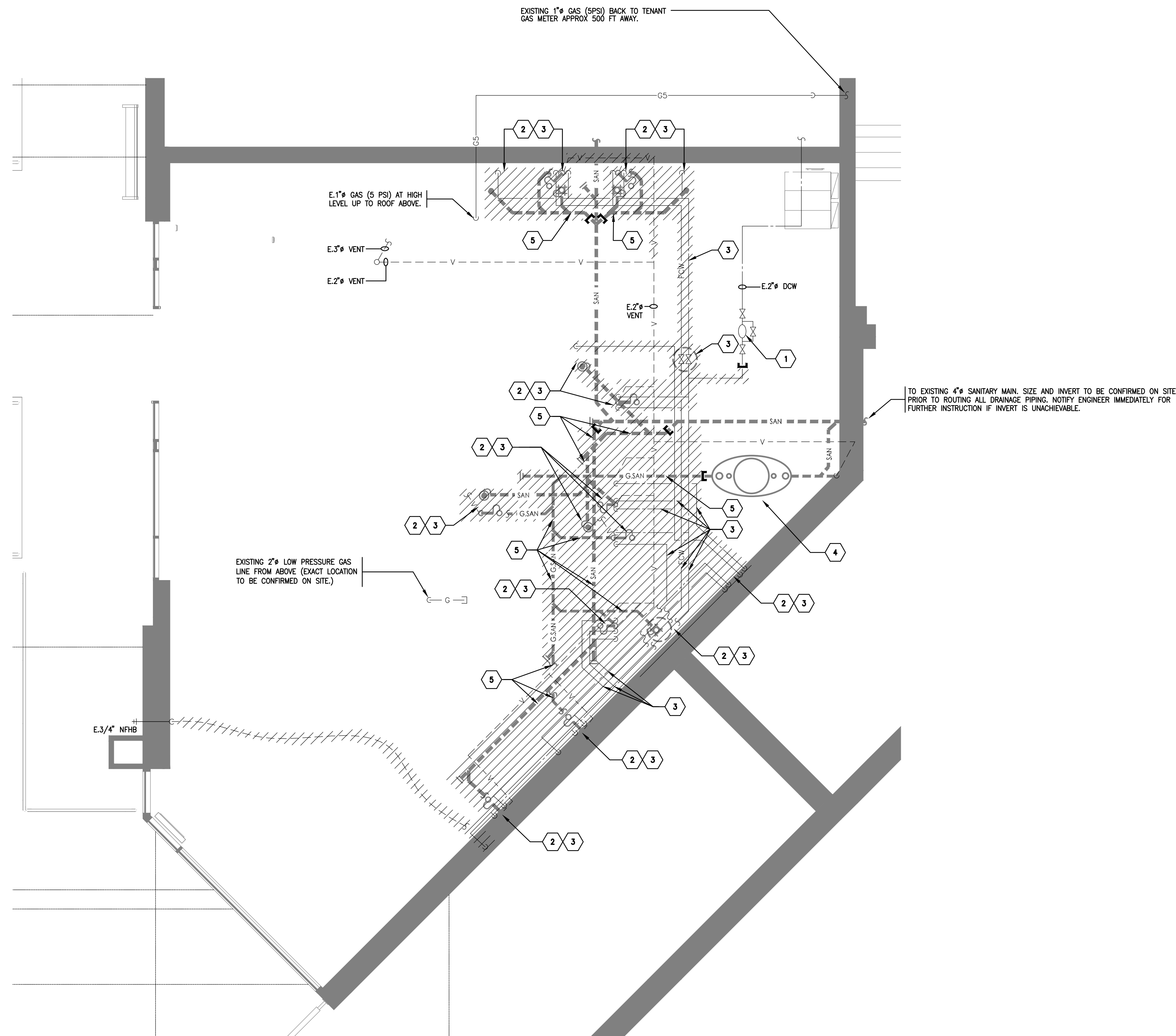
NO.	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: Checked:  
NW/KL JCY

Project No. SCALE:  
21074 N.T.S.

Contents:  
MECHANICAL  
SPECIFICATIONS  
& LEGEND

M101



- DRAWING NOTES**
- EXISTING WATER METER C/W BYPASS TO REMAIN.
  - ALL EXISTING FIXTURES SHOWN HIDDEN AND ASSOCIATED DRAIN LINES, FLOOR DRAINS, HUB DRAINS, ETC. SHOWN HATCHED TO BE REMOVED AND CAPPED OFF BEHIND FINISHED SURFACES. CAP ASSOCIATED VENT PIPING BACK TO MAIN.
  - ALL EXISTING WATER LINES, VENT LINES, FILTERED COLD WATER LINE, TEMPERED HOT WATER LINE, HOT WATER LINE, CONDENSATE LINES, TRAP SEAL PRIMERS, HOSE BIBB, ELECT. HOT WATER TANK ETC. SHOWN HATCHED TO BE REMOVED AND CAPPED OFF BEHIND FINISHED SURFACES.
  - EXISTING PROCEPTOR GMC 150 GALLON GREASE INTERCEPTOR SHOWN AT THIS LOCATION TO REMAIN. EXISTING GREASE TO BE PUMPED OUT. ASSOCIATED BURIED GREASE SANITARY LINES AND VENT LINES FROM INTERCEPTOR TO BE CLEANED.
  - SECTION OF BURIED SANITARY/GREASE SANITARY SHOWN HATCHED TO BE REMOVED AND/OR ABANDONED. CAP OFF LINE BACK TO MAIN AS SHOWN.

Consultant:

**SNC-LAVALIN**  
 Engineering, Design and Project Management  
 Equipment  
 235 Leslie Road  
 Toronto, Ontario  
 Canada M3B 2Y1  
 Tel: 416-445-8255  
 SNC-LAVALIN PROJECT # 2021-681635



COPYRIGHT 2019  
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
 610 NEWPORT CENTER DR. SUITE 1300  
 NEWPORT BEACH, CA 92660  
 TELEPHONE: 714.264.7392  
 INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
 RICHMOND CENTRAL  
 4720 MCCLELLAND RD., UNIT #1845  
 RICHMOND, V6X 0M6  
 B.C., CANADA

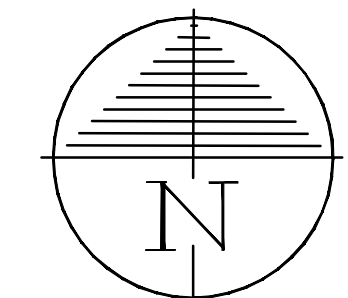
DESIGN BULLETIN: DB-06/2021

NO.	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
 Checked: JCY  
 Project No: 21074  
 SCALE: 1/4" = 1'-0"

Contents:  
 PLUMBING AND DRAINAGE DEMOLITION LAYOUT

M201





COPYRIGHT 2019  
 THIS DRAWING IS AN INSTRUMENT OF SERVICE  
 AND AS SUCH REMAINS THE PROPERTY OF  
 CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR  
 USE OF THIS DOCUMENT IS LIMITED AND CAN BE  
 EXTENDED ONLY BY WRITTEN AGREEMENT WITH  
 CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
 610 NEWPORT CENTER DR. SUITE 1300  
 NEWPORT BEACH, CA, 92660  
 TELEPHONE: 714.264.7392  
 INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
 RICHMOND CENTRAL  
 4720 MCCLELLAND RD., UNIT #1845  
 RICHMOND, V6X 0M6  
 B.C., CANADA

DESIGN BULLETIN: DB-06/2021

1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
 Checked: JCY  
 Project No: 21074  
 SCALE: 1/4" = 1'-0"

Contents:  
**SANITARY DRAINAGE LAYOUT**

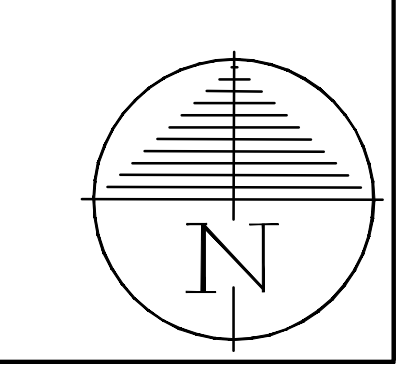
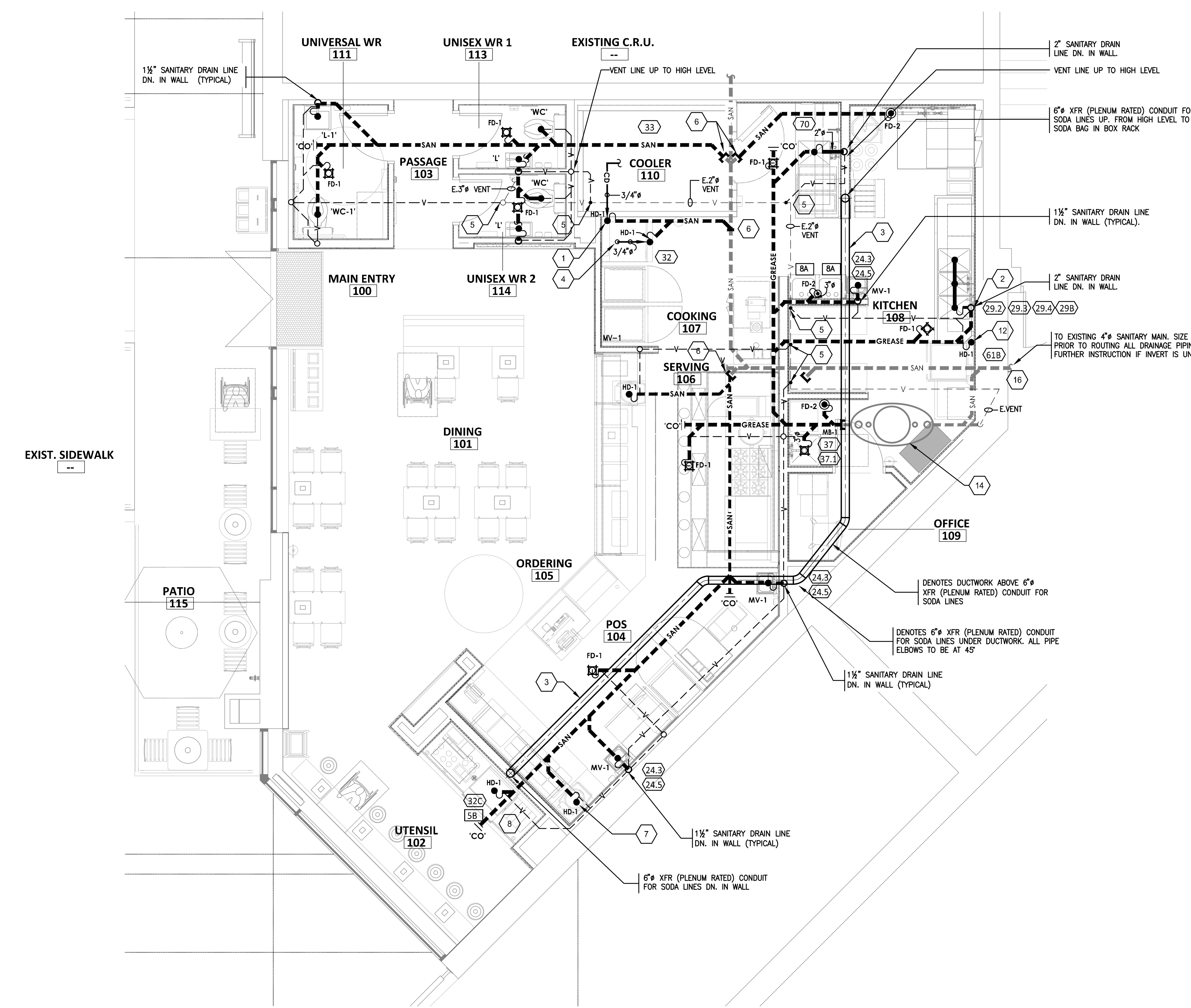
M202

SANITARY HYDRAULIC LOAD FIXTURE UNITS				
TAG	DESCRIPTION	SAN (FU)	No. OF FIXTURES	TOTAL OF FIXTURE UNITS
MV-1	KITCHEN HAND SINK	1½	3	4.5
WC	WATER CLOSET (FLUSH TANK)	4	2	8
WC-1	WATER CLOSET (BARRIER FREE-FLUSH TANK)	4	1	4
L	LAVATORY	1½	2	3
L-1	LAVATORY (BARRIER FREE)	1½	1	1½
HD-1	3" HUB DRAIN	3	7	21
FD-1	3" FLOOR DRAIN	3	5	15
FD-2	3" FUNNEL FLOOR DRAIN	3	3	9
TOTAL:				69

- GENERAL NOTES**
- PIPING LAYOUTS ON THE DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
  - FINAL CONNECTION OF ALL OWNER SUPPLIED EQUIPMENT BY THIS DIVISION UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT CHARTS FOR FURTHER DETAILS.
  - PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS PER DETAIL ON DWG M303.
  - WALL CLEANOUTS NOT PERMITTED IN TILE AND PLYWOOD SURFACES. IF A CLEANOUT IS REQUIRED, COORDINATE LOCATION WITH CHIPOTLE CONSTRUCTION MANAGER.

GREASE HYDRAULIC LOAD FIXTURE UNITS				
TAG	DESCRIPTION	SAN (FU)	No. OF FIXTURES	TOTAL OF FIXTURE UNITS
22	PREP. SINK	1.5	1	1.5
29B	3 COMPARTMENT SINK	1.5	1	1.5
MB-1	MOP SINK	3	1	3
TOTAL:				6

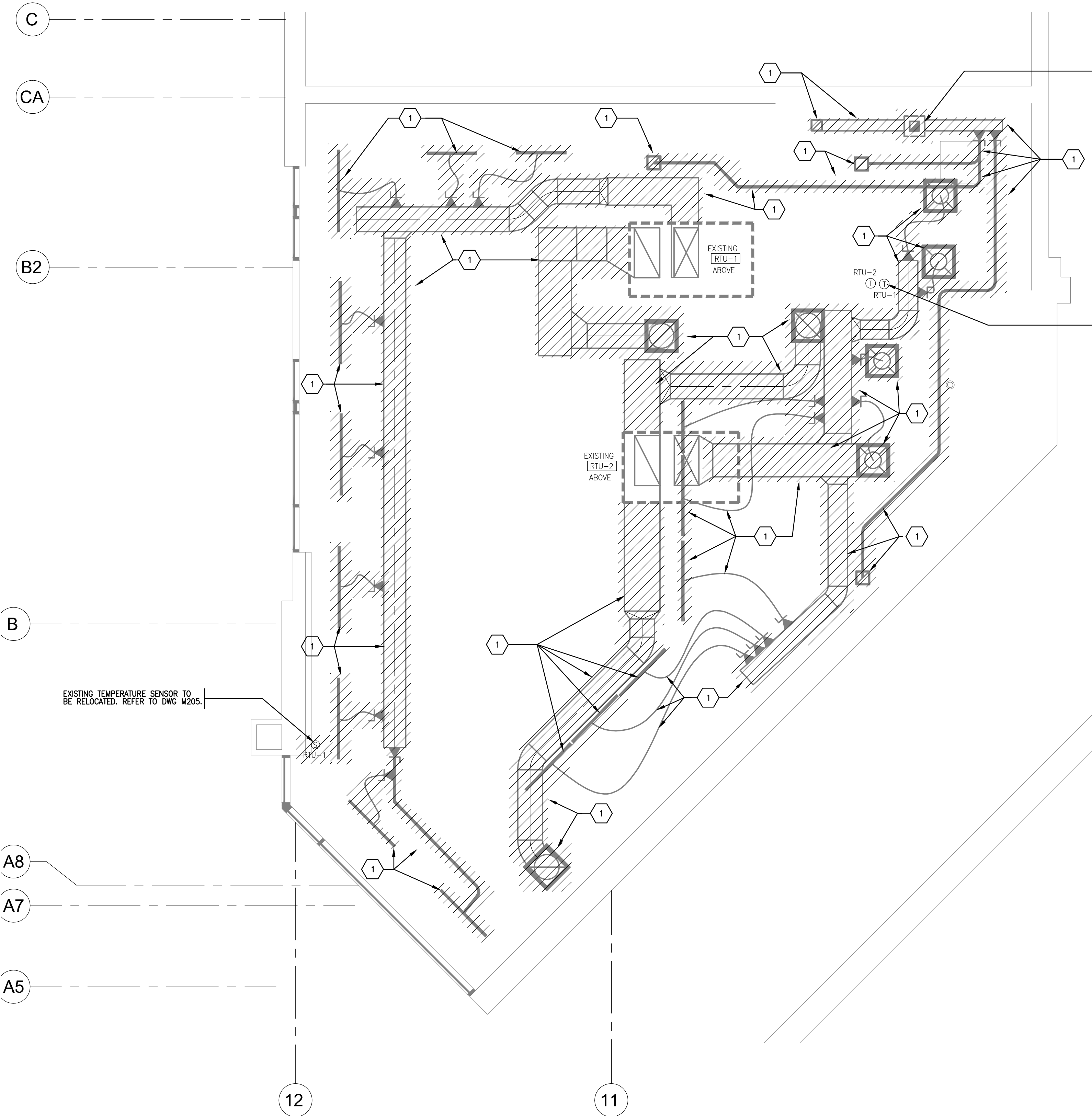
- PLUMBING WASTE & VENT PLAN NOTES**
- PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE HUB DRAIN BELOW AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL AT 8" AFF AND BE SECURED TO FLOOR.
  - PROVIDE DIRECT DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAILS.
  - PROVIDE 6" CONDUIT FOR SODA LINES FROM BAG-IN-BOX RACK TO SODA FOUNTAIN. CONDUIT TO RUN AT HIGH LEVEL AND DROP DOWN TO 24" A.F.F. C/W ELBOW AND PIPE STUB AS REQUIRED TO SUIT SODA LINE CONNECTIONS TO EQUIPMENT. ALL PIPE ELBOWS TO BE 45°. CONDUIT MATERIAL TO BE PVC SYSTEM XFR OR EQUIVALENT NON-COMBUSTIBLE PIPING. REFER TO DETAILS FOR FURTHER INFO.
  - PROVIDE 3/4" PVC DRAIN PIPES FROM THE ICE MACHINE TO THE HUB DRAIN PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE HUB DRAIN. SECURE DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.
  - CONNECT NEW VENT LINE TO EXISTING VENT LINE OF SUFFICIENT SIZE IN THIS AREA.
  - CONNECT NEW BURIED SANITARY DRAIN LINE TO EXISTING OF SUFFICIENT SIZE AT THIS LOCATION. SIZE AS SHOWN.
  - PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE HUB DRAIN. DRAIN THROUGH AN AIR GAP.
  - PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE HUB DRAIN. DRAIN THROUGH AN AIR GAP.
  - PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAILS.
  - PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR DRAIN CONCEALED IN THE WALL AS SHOWN IN DETAIL 6/M303.
  - NOT USED.
  - PROVIDE 1-1/2" DRAIN PIPE FROM DISH MACHINE TO HUB DRAIN. HOLD DRAIN LINE TIGHT TO WALL AS SHOWN AND DRAIN THROUGH AN AIR GAP AT HUB DRAIN.
  - NOT USED.
  - EXISTING PROCEPTOR GMC 150 GALLON GREASE INTERCEPTOR SHOWN AT THIS LOCATION TO REMAIN. EXISTING GREASE TO BE PUMPED OUT. ASSOCIATED BURIED GREASE SANITARY LINES AND VENT LINES FROM INTERCEPTOR TO BE CLEANED.





**DRAWING NOTES** #

- EXISTING SUPPLY DIFFUSERS / SUPPLY DUCTWORK / RETURN AIR GRILLES / RETURN DUCTWORK / EXHAUST GRILLES / EXHAUST DUCTWORK SHOWN HATCHED TO BE REMOVED IN THEIR ENTIRETY.



COPYRIGHT 2019  
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
 610 NEWPORT CENTER DR. SUITE 1300  
 NEWPORT BEACH, CA, 92660  
 TELEPHONE: 714.264.7392  
 INTERNET: WWW.CHIPOTLE.COM

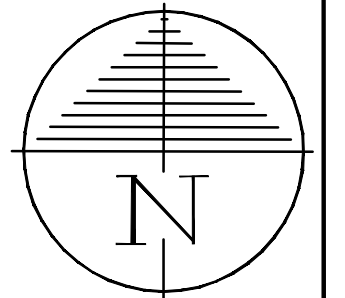
STORE NO.: 52-4321  
 RICHMOND CENTRAL  
 4720 MCCLELLAND RD., UNIT #1845  
 RICHMOND, V6X 0M6  
 B.C., CANADA

DESIGN BULLETIN: DB-06/2021

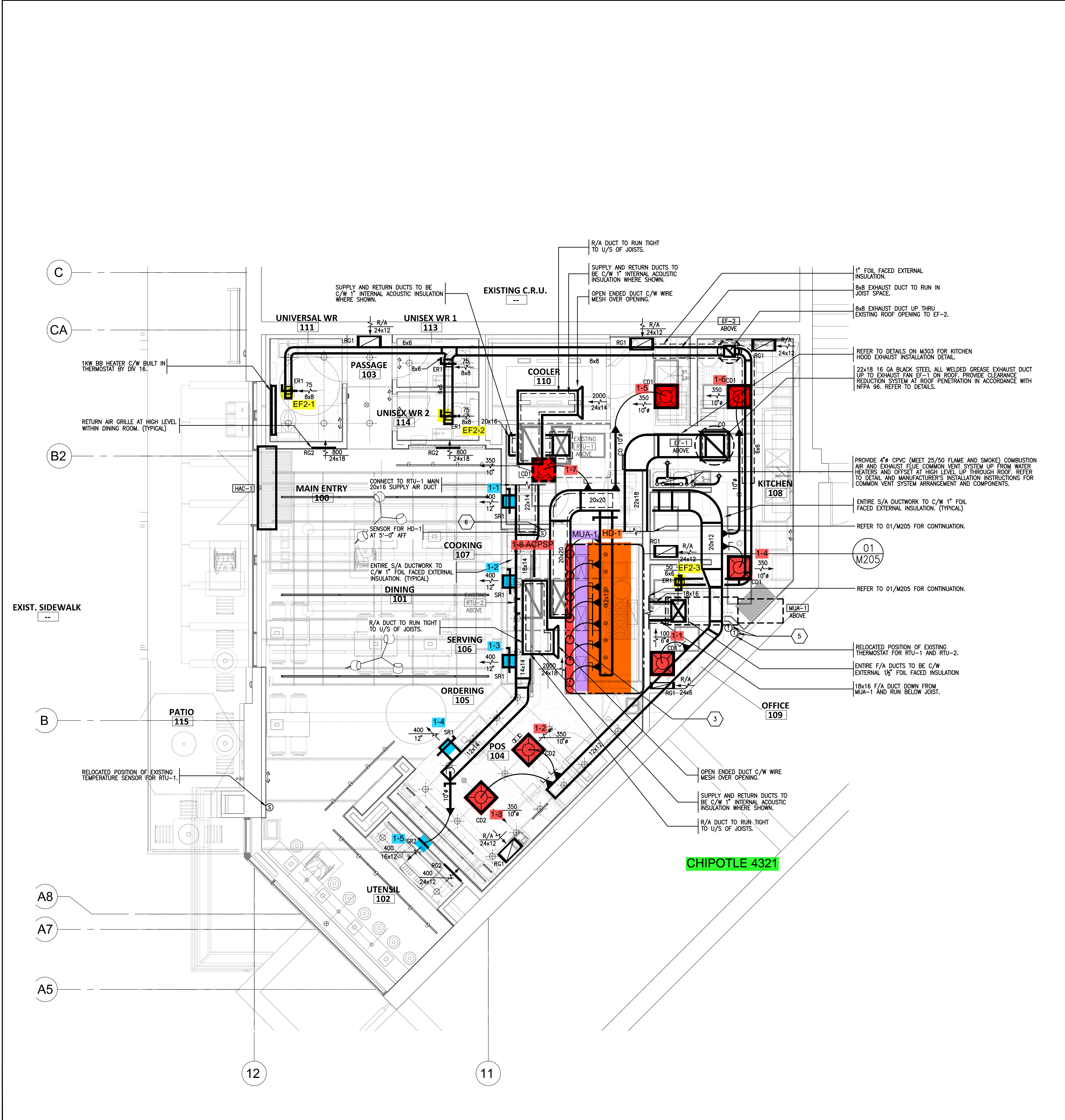
NO.	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
 Checked: JCY  
 Project No: 21074  
 SCALE: 1/4" = 1'-0"

Contents:  
 HVAC DEMOLITION  
 PLAN



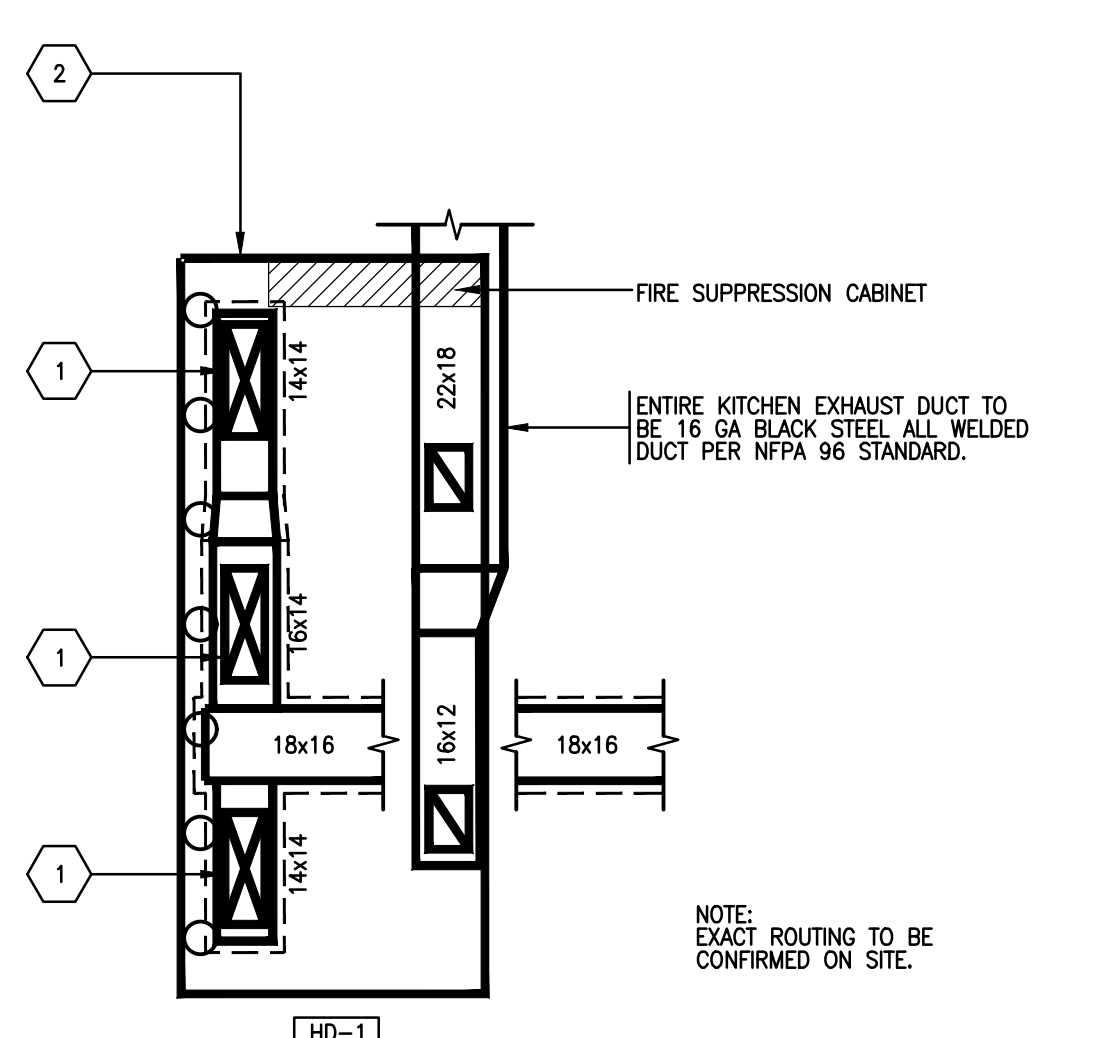
M204



- DRAWING NOTES**
- 15x10 GREASE EXHAUST DUCT UP FROM 15x10 HOOD COLLAR.
  - INSTALL EXHAUST HOOD HD-1 SUPPLIED BY CHIPOTLE. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING. IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKE-UP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE. REFER TO DETAILS ON DWGS M304-310. OWNER TO PROVIDE THIRD PARTY TESTING OF THE INTEGRITY OF THE GREASE DUCT SYSTEM.
  - CONNECT 8" FLEXIBLE SUPPLY DUCT TO EXHAUST HOOD SUPPLY PLENUM. BALANCE TO 114 CFM. TYPICAL FOR 7.
  - 28"x10" SUPPLY DUCT DOWN FROM UNDERSIDE OF MAIN TO EXHAUST HOOD MAKE-UP AIR PSP CONNECTION. BALANCE TO 650 CFM. TYPICAL FOR 3.
  - INSTALL 7 DAY PROGRAMMABLE THERMOSTAT FOR ROOFTOP UNIT TO OFFICE WALL AT 4'-0" A.F.F. COORDINATE WITH ELECTRICAL SWITCHES AND WALL MOUNTED EQUIPMENT IN THIS AREA. LABEL EACH THERMOSTAT ACCORDINGLY. THERMOSTATS SUPPLIED WITH 75'-0" FT-6 PLENUM RATED CABLE AS REQUIRED. PROVIDE COMPATIBLE REMOTE TEMPERATURE SENSORS AND WIRE BACK TO THERMOSTATS. SET THERMOSTAT FOR CONTINUOUS FAN OPERATION.
  - INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 66" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.

- GENERAL NOTES**
- DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK CONNECTIONS, OFFSETS, ACCESSORIES AND MATERIAL NECESSARY FOR A COMPLETE SYSTEM.
  - AIR CONDITIONED SUPPLY DUCTWORK INSTALLED IN UNCONDITIONED CEILING SPACE TO BE EXTERNALLY INSULATED TO R-3.5.
  - REPLACE AIR FILTERS WITH NEW MERV 8 FILTERS AT TURNOVER.
  - ALL DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEAR HEIGHT. COORDINATE DUCTWORK LAYOUT WITH WATER AND SPRINKLER PIPING, LIGHTING, CEILING AND BULBHEADS PRIOR TO INSTALLATION.
  - MAINTAIN ALL REQUIRED MANUFACTURER'S SERVICE AND MAINTENANCE CLEARANCES TO NOTED MECHANICAL EQUIPMENT.
  - REFER TO KITCHEN EXHAUST SYSTEM DRAWINGS M304 TO M314 FOR FURTHER DETAILS REGARDING CAPTIVE AIRE EQUIPMENT INSTALLATION AND SPECIFICATIONS.

- CONTROL FUNCTIONS**
- THE MAIN COOKING EXHAUST FAN, ELECTRIC DUCT HEATER AND SUPPLY FAN SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
  - THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
  - THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.



**MAKE UP AIR AND EXHAUST DUCT HOOD CONNECTION DETAIL**

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

Consultant:

**SNC-LAVALIN**  
Engineering, Design and Project Management  
(E/P/M) Canada  
85 Lorne St. 10th Floor  
Toronto, Ontario  
Canada M5R 2V1  
Tel: 416-446-9255  
SNC-LAVALIN PROJECT # 2021-681535



COPYRIGHT 2019  
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
610 NEWPORT CENTER DR. SUITE 1300  
NEWPORT BEACH, CA 92660  
TELEPHONE: 714.264.7392  
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
RICHMOND CENTRAL  
4720 MCCLELLAND RD., UNIT #1845  
RICHMOND, V6X 0M6  
B.C., CANADA

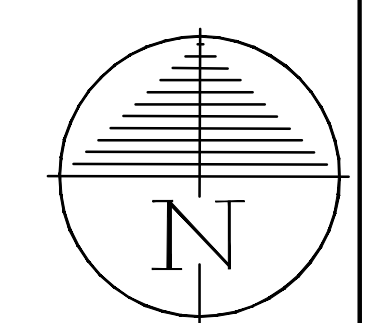
DESIGN BULLETIN: DB-06/2021

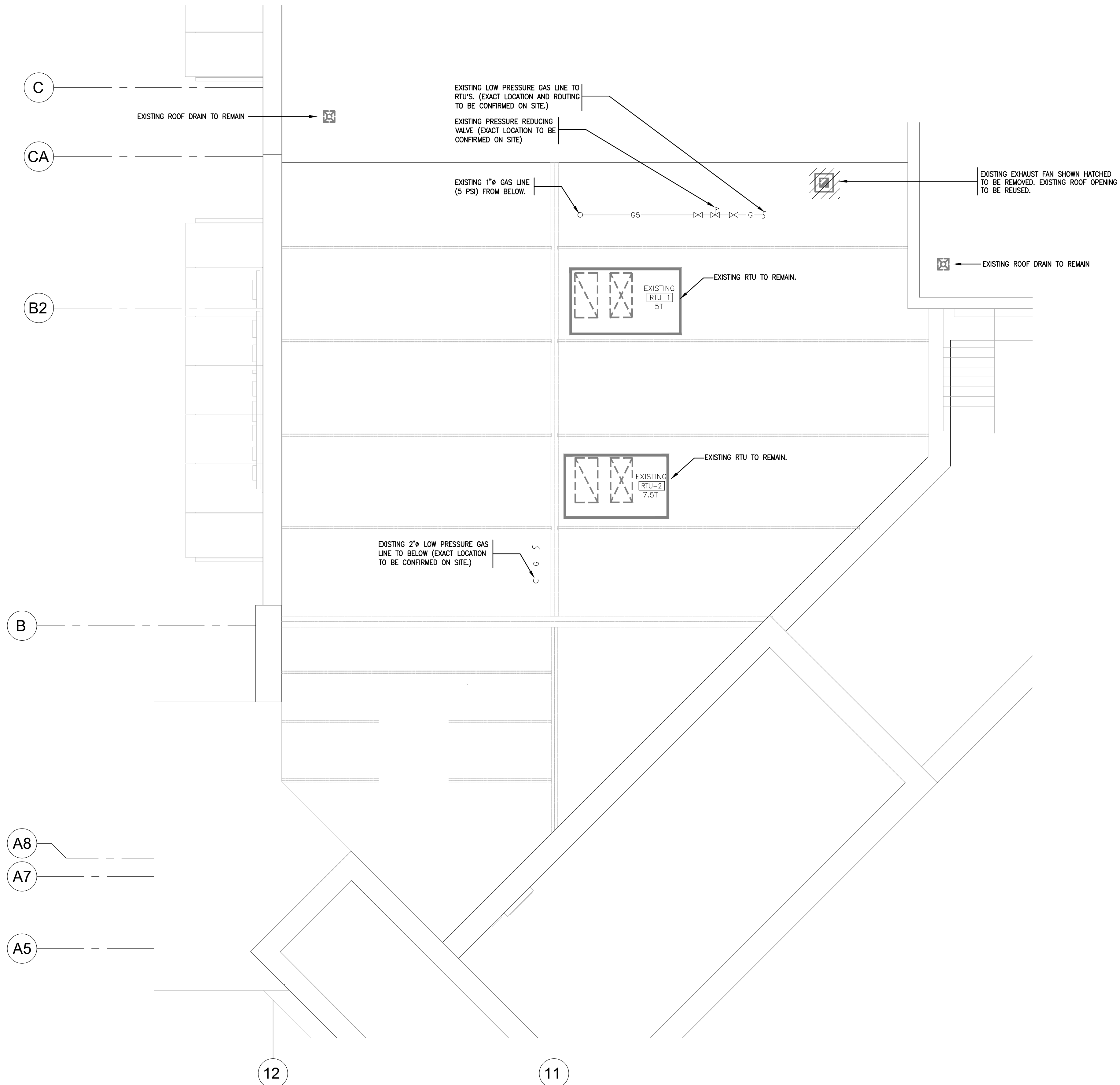
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
Checked: JCY  
Project No: 21074  
SCALE: 1/4" = 1'-0"

Contents:  
HVAC NEW PLAN

M205





Consultant:  
**SNC-LAVALIN**  
 Engineering, Design and Project Management  
 (EP/M) Canada  
 55 Line 10  
 Toronto, Ontario  
 Canada M3B 2Y1  
 Tel: 416-445-9255  
 SNC-LAVALIN PROJECT # 2021-681535



COPYRIGHT 2019  
 THIS DRAWING IS AN INSTRUMENT OF SERVICE  
 AND AS SUCH REMAINS THE PROPERTY OF  
 CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR  
 USE OF THIS DOCUMENT IS LIMITED AND CAN BE  
 EXTENDED ONLY BY WRITTEN AGREEMENT WITH  
 CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
 610 NEWPORT CENTER DR. SUITE 1300  
 NEWPORT BEACH, CA, 92660  
 TELEPHONE: 714.264.7392  
 INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
 RICHMOND CENTRAL  
 4720 MCCLELLAND RD., UNIT #1845  
 RICHMOND, V6X 0M6  
 B.C., CANADA

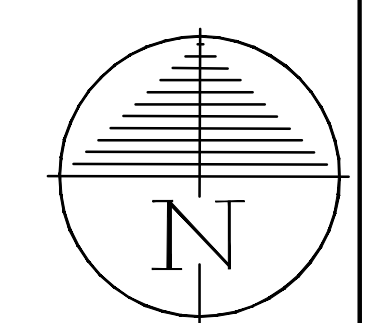
DESIGN BULLETIN: DB-06/2021

NO.	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
 Checked: JCY

Project No. 21074  
 SCALE: 1/4" = 1'-0"

Contents:  
 ROOF DEMOLITION  
 PLAN



M206



HVAC EQUIPMENT SCHEDULE															
TAG	DESCRIPTION	MANUFACTURER	MODEL	AIRFLOW (CFM)	E.S.P. (IN. WC)	MCA	MOCP (A)	ELECTRICAL (V/Ph/Hz)	MOTOR HP	GAS HEATING (MBH)		NOMINAL TONNAGE	FRESH AIR MIN. %	WEIGHT (LBS)	REMARKS
										INPUT	OUTPUT				
RTU-1	EXISTING ROOFTOP UNIT	YORK	ZF06	2,000	0.8	25.1	-	208V/3/60	-	---	60	5	12.5	650	EXISTING. TO SERVE DINING AREA.
RTU-2	EXISTING ROOFTOP UNIT	---	---	3,000	-	-	-	-	-	-	7.5	18.3	-	-	EXISTING. TO SERVE KITCHEN/OFFICE SPACE.
MAU-1	MAKE-UP AIR UNIT	CAPTIVE AIRE	A1-D.250-15D	1,950	0.45	2.7	15	575V/3/60	2.0	224	206	-	100	508	DIRECT FIRED MAKE-UP AIR UNIT SUPPLIED BY OWNER AND INSTALLED BY THIS DIVISION. UNIT COMPLETE WITH ROOF CURB, INTAKE HOOD AND MOTORIZED DAMPER. OPERATION INTERLOCKED WITH EXHAUST FAN EF-1. REFER TO DRAWINGS M304-M314 FOR FURTHER DETAILS.

FAN SCHEDULE													
TAG	DESCRIPTION	MANUFACTURER	MODEL	AIRFLOW (CFM)	E.S.P. (IN. WC)	FLA (A)	MOCP (A)	ELECTRICAL (V/Ph/Hz)	MOTOR HP	RPM	WEIGHT (LBS)	REMARKS	
													EF-1
EF-2	WASHROOM EXHAUST FAN	CAPTIVE AIRE	DR12HFA	275	0.75	2.9	-	120V/1/60	0.25	1,486	49	DOWNDRAFT ROOF EXHAUST FAN SUPPLIED BY OWNER AND INSTALLED BY THIS DIVISION. FAN COMPLETE WITH ROOF CURB AND BACKDRAFT DAMPER. REFER TO DRAWINGS M304-M314 FOR FURTHER DETAILS.	

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE													
TAG	DESCRIPTION	MANUFACTURER	MODEL	SPECIFICATION	CONNECTION SIZES								
					HW	CW	DRAIN						
FD-1	FLOOR DRAIN (KITCHEN)	ZURN	ZN-211-B5-P-Y	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR, POLISHED NICKEL BRONZE STRAINER, 1/2" TRAP PRIMER CONNECTION, SEDIMENT BUCKET.	---	---	3"						
FD-2	FUNNEL FLOOR DRAIN	ZURN	ZN-211-BF-P	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR, POLISHED NICKEL BRONZE OPEN THROAT OVAL FUNNEL GRATE, 1/2" TRAP PRIMER CONNECTION.	---	---	3"						
CO	FLOOR CLEANOUT	ZURN	ZN-1602-SP	ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH NEOPRENE BODY SLEEVE, POLISHED NICKEL BRONZE ADJUSTABLE HEAD AND GASKETED, SECURED, SCORATED COVER, SEAL PLUG.	---	---	4"						
MB-1	MOP BASIN	FIAT	MSB2424	24"x24"x10" MOLDED STONE MOP BASIN, INSTALL OWNER-SUPPLIED SERVICE FAUCET WITH BUILT-IN STOPS, LEVER HANDLES AND WALL BRACE.	1/2"	1/2"	3"						
MV-1	KITCHEN HAND SINK MIXING VALVE	LEONARD	270-LF-BRKT	LEAD-FREE THERMOSTATIC POINT OF USE MIXING VALVE, C/W MOUNTING BRACKETS.	1/2"	1/2"	---						
TSP	TRAP SEAL PRIMER	ZURN	Z1020	ELECTRONIC TRAP PRIMER C/W ATMOSPHERIC VACUUM BREAKER, 24 VAC SOLENOID, 120-24V TRANSFORMER, RECESSED BOX MOUNT AND COVER. PROVIDE ADDITIONAL OUTLETS AS REQUIRED.	---	1/2"	---						
DCVA	DOUBLE CHECK VALVE ASSEMBLY	WATTS	LF007	LEAD FREE CAST COPPER SILICON ALLOY BODY CONSTRUCTION, TOP MOUNTED LEAD FREE BALL VALVE TEST COCKS.	---	1/2" FW	---						
RP	REDUCED PRESSURE PRINCIPLE ASSEMBLY	WATTS	LF009-QT	LEAD FREE CAST COPPER SILICON ALLOY BODY CONSTRUCTION, BALL VALVE TEST COCKS, QUARTER-TURN SHUTOFF VALVES, AIR GAP DRAIN FITTING.	SEE PLAN	SEE PLAN	---						
HD-1	HUB DRAIN	ZURN	ZN-211-S	DURA COATED CAST IRON BODY WITH BOTTOM OUTLET POLISHED NICKEL BRONZE HUB.	---	---	3"						
					---	---	3"						
L	WASHROOM LAVATORY	AMERICAN STANDARD	COSSU D20126100.415 (R)	20"x10" FIRE CLAY WALL-HUNG LAVATORY WITH OVERFLOW, SINGLE HOLE, RIGHT HAND FAUCET LEDGE (SEE PLAN), OPEN GRID STRAINER, OFFSET WASTE ASSEMBLY, TRAP, SUPPLIES STOPS AND ZURN 1251 CONCEALED AIR WALL SUPPORT CARRIER. TRIM: SLOAN BASYS EFX-200-100-0000 COMPLETE WITH EAF-37, 120V PLUG IN TRANSFORMER, MIXING VALVE MIX 60A. RECEPTACLE TO BE LOCATED 24" A.F.F. UNDER LAVATORY.	1/2"	1/2"	1-1/4"						
WC	WATER CLOSET	AMERICAN STANDARD	CHAMPION PRO ELONGATED 211AA.154	FLOOR MOUNTED ELONGATED LINED FLUSH TANK TOILET (6 LITRE) WITH BOLT DOWN COVER, 3/8" C.P. SUPPLY WITH SCREW DRIVER STOP AND WHITE OPEN FRONT SEAT WITH COVER AND STAINLESS STEEL HINGE, POSTS AND NUTS. FIGURE: AMERICAN STANDARD CHAMPION PRO ELONGATED 211AA.154 SEAT: CENTOCC 500 STS CC COMPLETE WITH STAINLESS STEEL HINGES, POSTS AND NUTS.	---	1/2"	3"						
L-1	WASHROOM LAVATORY BARRIER FREE	AMERICAN STANDARD	MURRO 0954.000	WALL HUNG VITREOUS CHINA BASIN WITH ELECTRONIC FAUCET, MIXING VALVE, OPEN GRID STRAINER, OFFSET WASTE ASSEMBLY, TRAP, SUPPLIES WITH STOPS & FLOOR BASED CHAIR CARRIER AND 0.5 GAL AERATOR. FIGURE: AMERICAN STANDARD "MURRO" 0954.000 TRIM: SLOAN BASYS EFX-200-100-0000 COMPLETE WITH EAF-37, 120V PLUG IN TRANSFORMER, MIXING VALVE MIX 60A. TRANSFORMER TO BE LOCATED BELOW SINK. REFER TO DETAILS. CARRIER: ZURN Z-1231-SL	1/2"	1/2"	1-1/4"						
WC-1	WATER CLOSET	AMERICAN STANDARD	CHAMPION PRO ELONGATED 211AA.154	FLOOR MOUNTED ELONGATED LINED FLUSH TANK TOILET (6 LITRE) 16" HIGH WITH BOLT DOWN COVER, 3/8" C.P. SUPPLY WITH SCREW DRIVER STOP AND WHITE OPEN FRONT SEAT WITH COVER AND STAINLESS STEEL HINGE, POSTS AND NUTS. FIGURE: AMERICAN STANDARD CHAMPION PRO ELONGATED 211AA.154 SEAT: CENTOCC 820 STS CC COMPLETE WITH STAINLESS STEEL HINGES, POSTS AND NUTS.	---	1/2"	3"						

EXHAUST HOOD SCHEDULE									
TAG	MANUFACTURER	MODEL	EXHAUST (CFM)	MUA (CFM)	SUPPLY (CFM)	ELECTRICAL (V/Ph/Hz)	WEIGHT (LBS)	REMARKS	
HD-1	CAPTIVE AIRE	5424 ND-2-ACPSP-F	3,200	1,950	800	120V/1/60	1,070	ULC LISTED TYPE-1 WALL CANOPY HOOD WITH PERFORATED MUA AND AC SUPPLY PLENUMS, 18-GA 430 S/S CONSTRUCTION, UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, 4-POLE 20A CONTACTOR. REFER TO DRAWINGS M304-M314 FOR FURTHER DETAILS.	

HEATED AIR CURTAIN SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER	MODEL	HEATING ELECTRICAL OUTPUT	ELECTRICAL (V/Ph/Hz)	FLA (A)	MOTOR HP	REMARKS	
HAC-1	MAIN ENTRANCE	FRICO	PAEC3220CE-600	18KW	575/3/60	17.0	-	FRICO ELECTRICALLY HEATED AIR CURTAIN C/W STARTER AND 7 DAY PROGRAMMABLE THERMOSTAT. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS.	

WATER HEATER SCHEDULE									
TAG	MANUFACTURER	MODEL	STORAGE (U.S.G.)	CAPACITY	RECOVERY (GPM)	MCA (A)	MAX FUSE (A)	ELECTRICAL (V/Ph/Hz)	REMARKS
DWH-1	NAVIER	NPE-240A	---	199 MBH	5.6 @ 67" RISE	---	---	120V/1/60	GAS FIRED FORCED DRAFT DIRECT VENT INSTANTANEOUS WATER HEATER MOUNTED ON WALL. PROVIDE WITH REMOTE CONTROLLER, CONDENSATE NEUTRALIZER, LEAD FREE "PLUMB EASY VALVE SET", AND HOT WATER RECIRC PUMP: GRUNDFOS, UPS 26-99 SFC.
DWH-2	NAVIER	NPE-240A	---	199 MBH	5.6 @ 67" RISE	---	---	120V/1/60	GAS FIRED FORCED DRAFT DIRECT VENT INSTANTANEOUS WATER HEATER MOUNTED ON WALL. PROVIDE WITH REMOTE CONTROLLER, CONDENSATE NEUTRALIZER, LEAD FREE "PLUMB EASY VALVE SET", AND HOT WATER RECIRC PUMP: GRUNDFOS, UPS 26-99 SFC.

AIR BALANCE SCHEDULE			
TAG	OUTDOOR AIR (CFM)	EXHAUST AIR (CFM)	SUBTOTAL (CFM)
EF-1	0	3,175	-3,175
EF-2	0	275	-275
MAU-1	1,950	0	2000
RTU-1	600	0	600
RTU-2	850	0	850
NET PRESSURIZATION (CFM)			0

### OWNER SUPPLIED EQUIPMENT - PLUMBING, DRAINAGE & GAS REQUIREMENTS

#### KITCHEN EQUIPMENT LIST

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	WATER			DRAIN		GAS	REMARKS
				CW	FW	HW	DIRECT	INDIRECT		
1A	Front Serve Line - 12 Pan - POS Left	Delfield	12 Pan Serve Line POS_225.5x38.5in (Left)					3/4"	PROVIDE VALVE ON DRAIN. DRAIN TO FLOOR SINK.	
13	Grill 48in - Natural Gas - Divider Right	Woodstone	WS-PL-48-36-4-CT-Right					3/4"	REFER TO GAS LOAD SUMMARY FOR CAPACITY.	
14	Range 6 Burner - Natural Gas	Garland	U36-6S					3/4"	REFER TO GAS LOAD SUMMARY FOR CAPACITY.	
16	Fryer - Gas - Standard Efficiency	Pitco	35CS					3/4"	REFER TO GAS LOAD SUMMARY FOR CAPACITY.	
18	Gas Rice Cooker	Rinnai	RER-55AS					3/4"	REFER TO GAS LOAD SUMMARY FOR CAPACITY.	
22	Prep Sink - Corner - Left	Trimark	S1-122x34-US-FF-L					2"		
22.1	Prep Sink Faucet Big Flow Faucet	T&S	B-0293-01			1/2"				
22.2	Prep Sink Vegetable Wash Faucet	T&S	B-0730			1/2"			CW SUPPLY FROM RP BFP WALL MOUNTED BELOW WATER FILTERS. PROVIDE 3/4" HOSE CONNECTION TO VICTORY WASH CHEMICAL DISPENSER.	
22.3	Prep Sink Drain Assembly	T&S	B-3950					2"	DRAIN TO HUB DRAIN	
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF					1-1/2"		
24.5	Kitchen Hand Sink Faucet Splash Mount	T&S	B-1146-04			1/2"			110°F HW FROM MIXING VALVE BELOW SINK.	
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRBJSK Substitute Sprayer B-0107-J-SWV			1/2"		2"		
29.3	Dish Sink Drain Assembly	T&S	B-3950					2"	DRAIN TO HUB DRAIN	
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX			1/2"		1/2"	CW & HW SUPPLIES FROM RP BFP'S WALL MOUNTED BELOW WATER FILTERS. PROVIDE 3/4" HOSE CONNECTION TO ECOLAB CHEMICAL DISPENSER.	
29B	3 Comp. Sink - 18x24in bowls - 111 3/4in	Nationwide fabrication: Marlo Mfg	S3-30x111.75x36.5-FF			1/2"		1/2"		
32.2	Ice Maker - Storage Bin	Hoshizaki	BS005F					3/4"	DRAIN TO HUB DRAIN. FW SUPPLY FROM DCVA WALL MOUNTED BELOW WATER FILTERS.	
32.3	Icemaker- Filter	Cuno	Bev 190			1/2"				
32.4	Ice Maker - Scale Inhibitor	Cuno	CF5440-HT			1/2"				
32A	Ice Maker For B.O.H. Ice Bin (Shorter)	Hoshizaki	KML-700MRJ							
32C	Ice Maker Mounted On Soda Machine - Air Cooled	Hoshizaki	KMD-530MAJ							
33	Walk In Cooler 7x10x10ft 3in - Standard - Insulated Floor	Manitowoc/Norlake	CHP710SR-RS							
37	Mop Sink Faucet	T&S	B-0660-B5TR			1/2"		1/2"		
37.1	Mop Sink Chemical Faucet	T&S	B-2345-01-XX			1/2"		1/2"	CW & HW SUPPLIES FROM RP BFP'S WALL MOUNTED BELOW WATER FILTERS. PROVIDE 3/4" HOSE CONNECTION TO ECOLAB CHEMICAL DISPENSER.	
39B	DML 2.0 130in - Left - W/POS & Cash Drawer	Franke/Delfield	DML 2.0_LT-130x39							
61	Dish Machine (w/Pump)	Hobart	AM165CB			1/2"		3/4"	DRAIN TO HUB DRAIN	
69B	Simplicity Bubbler Mini-Quad	Crathco	CS-4E-16					3/4"	DRAIN TO HUB DRAIN	
70	Speed Fill Faucet	T&S	B-0432 MOD			1/2"		1/2"		

GRILLE AND DIFFUSER SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
CD1	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE L	24"x24", LAY-IN, INTEGRAL OBD, WHITE FINISH
CD2	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE S	SURFACE MOUNTED, INTEGRAL OBD, WHITE FINISH. REMOVE 4-WAY DEFLECTOR, SEE PLAN FOR SIZE.
ER1	PERFORATED CEILING EXHAUST	NAILOR	4330R TYPE S	8"x8" SURFACE MOUNT, INTEGRAL OBD, WHITE FINISH
RG1	PERFORATED CEILING RETURN	NAILOR	4330R TYPE L	LAY-IN, INTEGRAL OBD, WHITE FINISH. SEE PLAN FOR SIZE.
RG2	0' FIXED BLADE RETURN GRILLE	NAILOR	51FH	SURFACE MOUNT, HORIZONTAL 0' FIXED BLADE, INTEGRAL OBD, PAINTED TO MATCH WALL COLOR. SEE PLAN FOR SIZE.
SR1	ADJUSTABLE TURBO NOZZLE	SEIHO	NTX10R	SURFACE MOUNT, PROVIDED WITH FACE ACCESSIBLE OBD, MILL FINISH.
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	NAILOR	51DH TYPE S	SURFACE MOUNT, HORIZONTAL FRONT BLADES, INTEGRAL OBD, MILL FINISH

Consultant:  
**SNC-LAVALLIN**  
 Engineering, Design and Project Management  
 (E/P/M) Canada  
 755 Lakeshore Blvd. W.  
 Toronto, Ontario  
 Canada M8B 2V1  
 Tel: 416-446-9255  
 SNC-LAVALLIN PROJECT # 2021-681535



COPYRIGHT 2019  
 THIS DRAWING IS AN INSTRUMENT OF SERVICE  
 AND AS SUCH REMAINS THE PROPERTY OF  
 CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR  
 USE OF THIS DOCUMENT IS LIMITED AND CAN BE  
 EXTENDED ONLY BY WRITTEN AGREEMENT WITH  
 CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
 610 NEWPORT CENTER DR. SUITE 1300  
 NEWPORT BEACH, CA, 92660  
 TELEPHONE: 714.264.7392  
 INTERNET: WWW.CHIPOTLE.COM

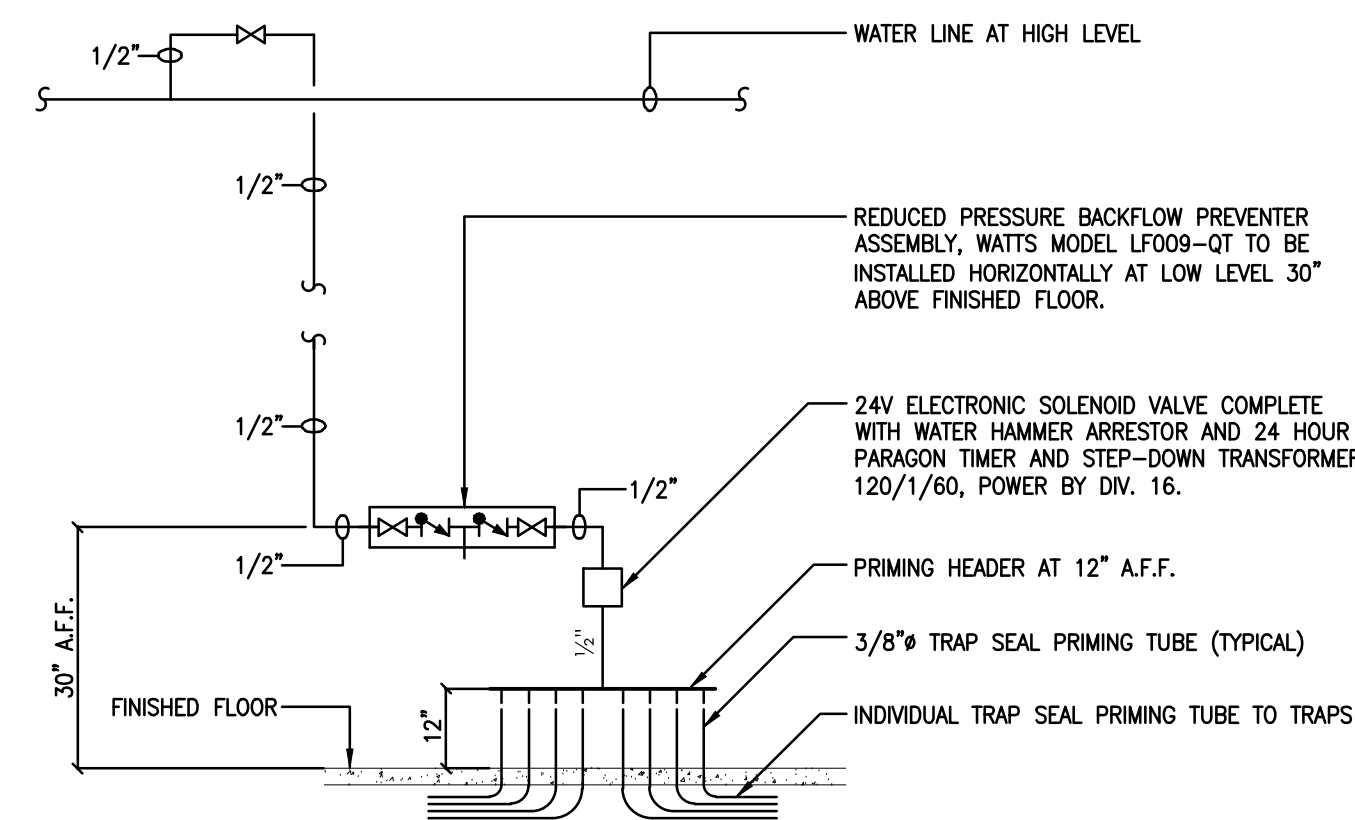
STORE NO.: 52-4321  
 RICHMOND CENTRAL  
 4720 MCCLELLAND RD., UNIT #1845  
 RICHMOND, V6X 0M6  
 B.C., CANADA

DESIGN BULLETIN: DB-06/2021

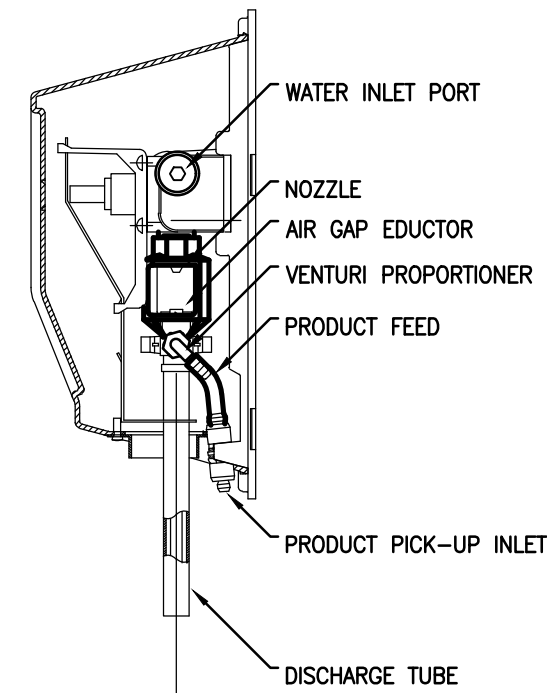
NO.	DATE	ISSUED FOR	STATUS
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: \_\_\_\_\_ Checked: \_\_\_\_\_  
 NV/KL JCY  
 Project No. 21074 SCALE: N.T.S.

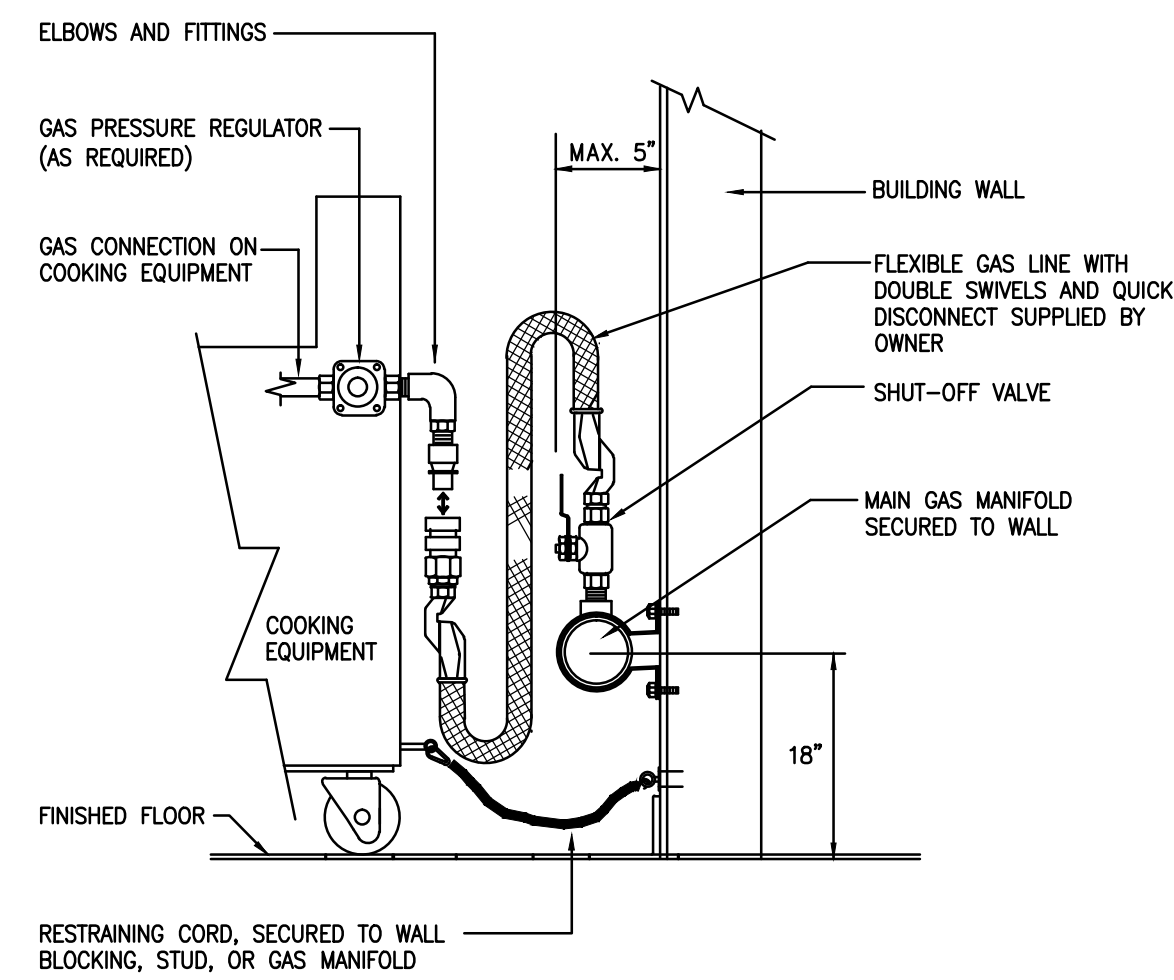
Contents:  
**MECHANICAL SCHEDULES**



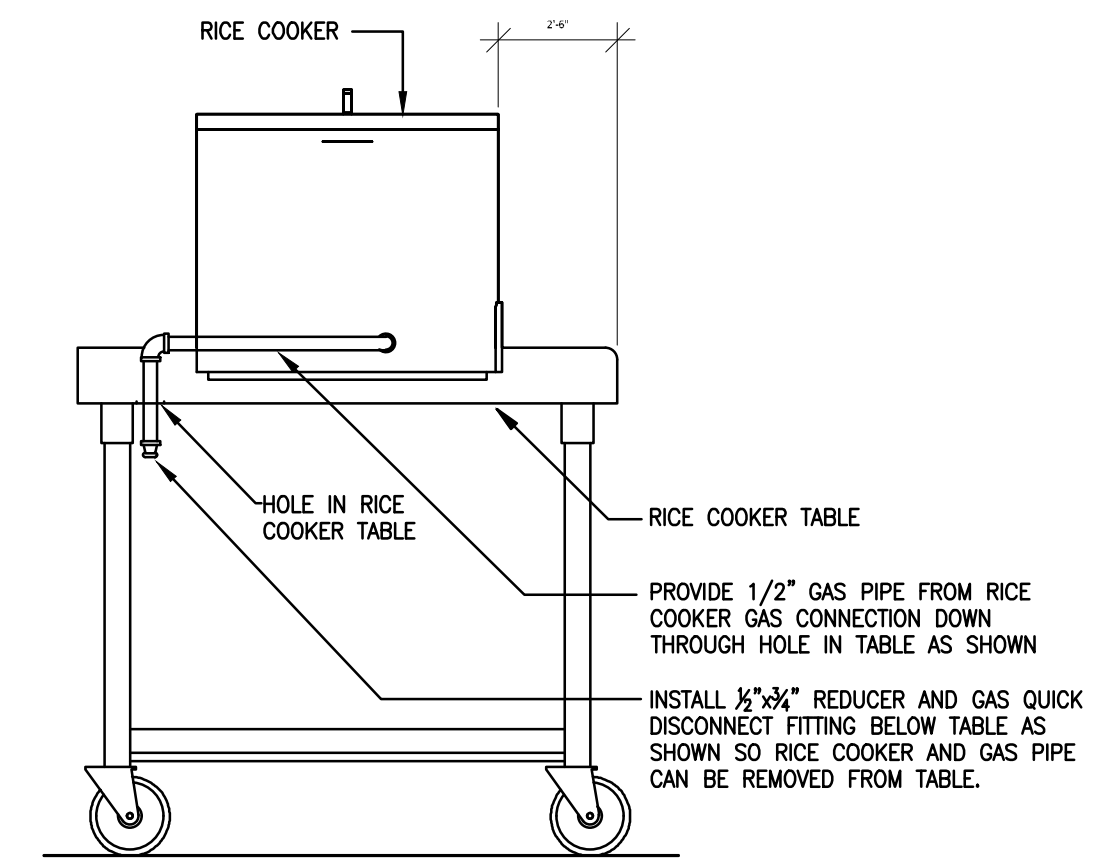
**1 TRAP SEAL PRIMER DETAIL**  
M302 NTS



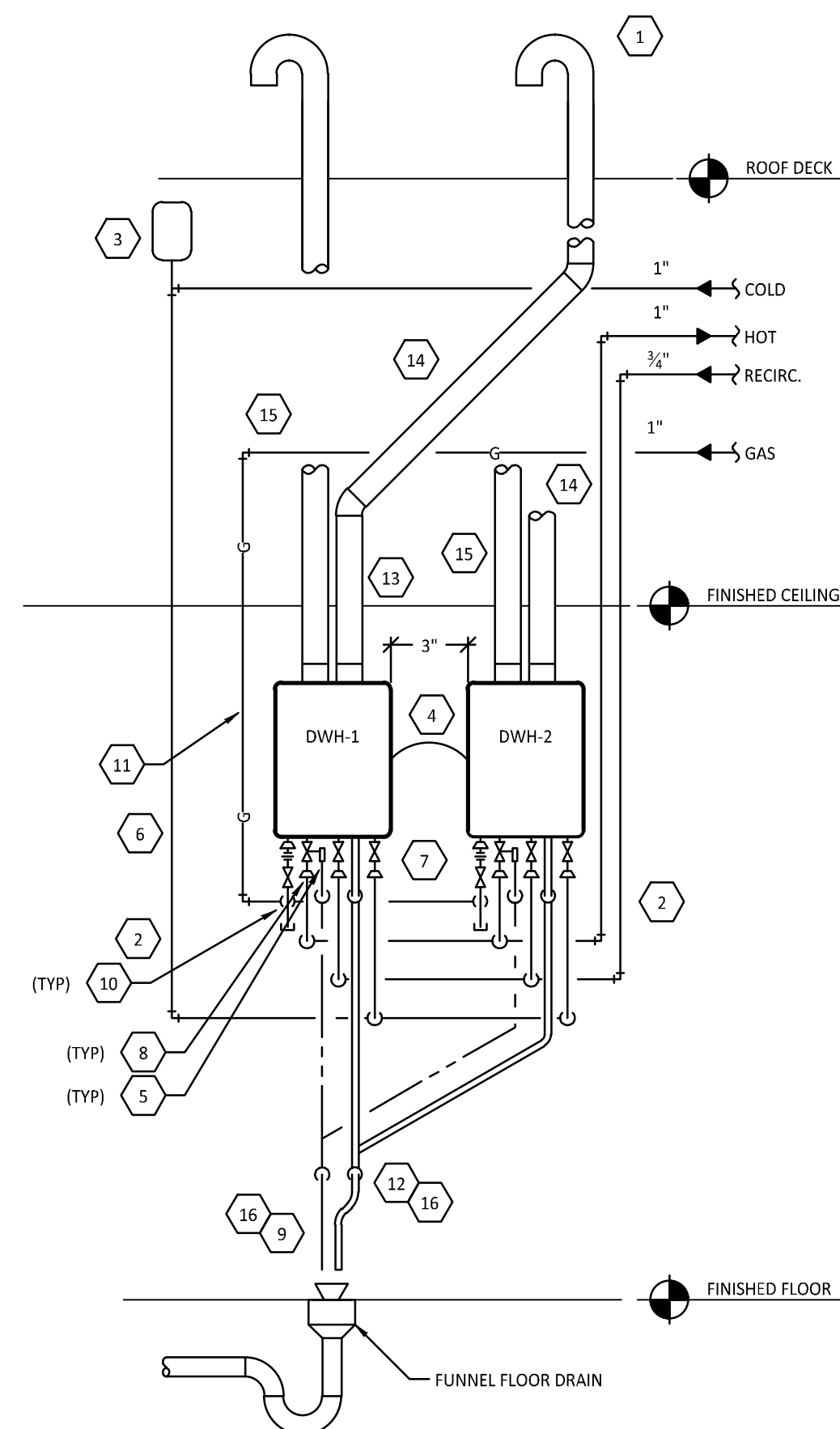
**2 SINK CHEMICAL DISPENSER DETAIL**  
M302 NTS



**3 KITCHEN EQUIPMENT GAS CONNECTION DETAIL**  
M302 NTS



**4 RICE COOKER GAS CONNECTION DETAIL**  
M302 NTS



**WATER HEATER DETAIL NOTES**

1. PROVIDE GOOSENECK C/W BIRD SCREEN AT FLUE/INTAKE TERMINATION THROUGH ROOF. TYPICAL FOR BOTH WATER HEATERS.
2. ROUGH IN COLD, HOT, AND RECIRC WATER PIPES AT 56" AND GAS PIPE AT 59" BELOW THE FINISHED CEILING.
3. PROVIDE EXPANSION TANK ET-1, SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
4. PROVIDE COMMUNICATION CABLE CONCEALED IN WALL BETWEEN WATER HEATERS.
5. PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO FLOOR DRAIN OR MOP BASIN.
6. CONCEAL WATER PIPING WITHIN THE WALL AS SHOWN. INSULATE EXPOSED AND CONCEALED WATER PIPING TO WITHIN 3" OF THE WATER HEATERS.
7. INSTALL "PLUMB EASY VALVE SET" EXPOSED AT THE COLD AND HOT WATER CONNECTIONS TO THE WATER HEATERS AS SHOWN.
8. IF THE PIPE SIZES AS SHOWN ON THE PLUMBING PLANS IS LARGER THAN THE WATER HEATER CONNECTION SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATERS.
9. PIPE PRESSURE RELIEF VALVE DISCHARGES AND FLUE CONDENSATE DRAINS TO THE FLOOR DRAIN OR MOP BASIN. DRAIN THROUGH AN AIR GAP.
10. PROVIDE AN EXPOSED DRIP LEG AND LINE-SIZE GAS VALVE ON THE GAS SERVICE TO THE WATER HEATER.
11. CONCEAL GAS PIPING IN THE WALL AS SHOWN.
12. PROVIDE 1/2" CLEAR PLASTIC TUBE FROM THE FLUE CONDENSATE CONNECTIONS TO THE FLOOR DRAIN OR MOP BASIN. FASTEN THE TUBE SECURELY TO THE WALL.
13. INSTALL THE TANKLESS WATER HEATERS WITH THE TOP OF THE WATER HEATERS WITHIN 12" OF THE FINISHED CEILING.
14. PROVIDE A 3/8" CPVC PIPE FROM THE TANKLESS WATER HEATER TO THE POINT OF DISCHARGE (TO MEET 25/50 FLAME AND SMOKE REQ), SLOPE HORIZONTAL SECTION OF THE FLUE 1/4" PER FOOT TOWARDS THE DRAIN TEE.
15. PROVIDE A 3/8" CPVC INTAKE PIPE (TO MEET 25/50 FLAME AND SMOKE REQ).
16. CONCEAL DRAIN LINES IN WALL PER DETAIL 6/M302.

**WATER HEATER INSTALLATION NOTES**

- A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE OWNER.
- B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
- C. MAINTAIN REQUIRED CLEARANCES TO COMBUSTIBLE MATERIALS.
- D. SEE ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT.
- E. ADJUST WATER HEATER TO A SETPOINT OF 140° F.

**5 DUAL TANKLESS WATER HEATER INSTALLATION DETAIL**  
M302 NTS

Consultant:  
**SNC-LAVALIN**  
Engineering, Design and Project Management  
(E/P/M) Canada  
55 Lorne Ave. West  
Toronto, Ontario  
Canada M3B 2Y1  
Tel: 416-445-9255  
SNC-LAVALIN PROJECT # 2021-681535



COPYRIGHT 2019  
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
610 NEWPORT CENTER DR. SUITE 1300  
NEWPORT BEACH, CA 92660  
TELEPHONE: 714.264.7392  
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
RICHMOND CENTRAL  
4720 MCCLELLAND RD., UNIT #1845  
RICHMOND, V6X 0M6  
B.C., CANADA

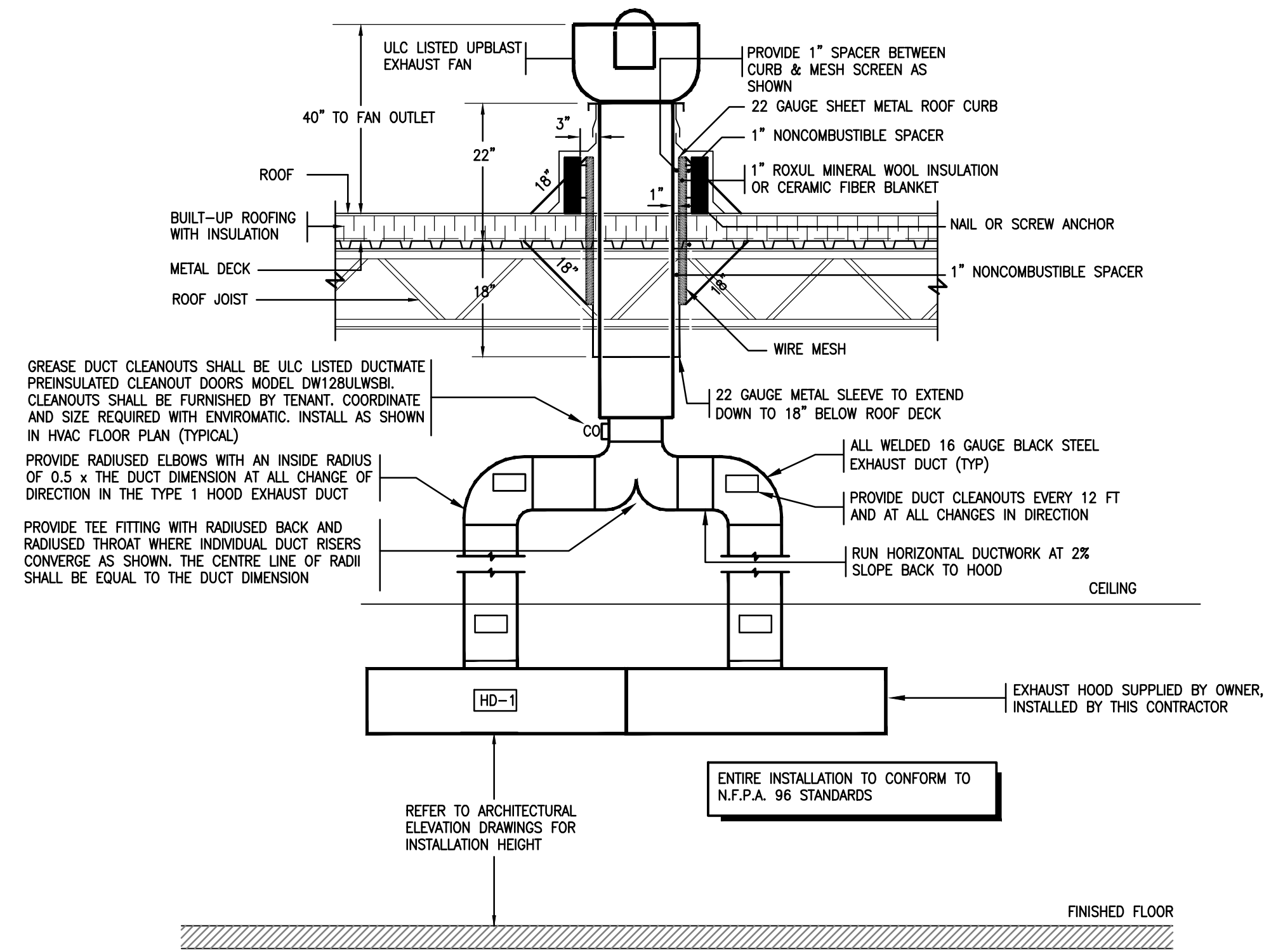
DESIGN BULLETIN: DB-06/2021

NO.	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

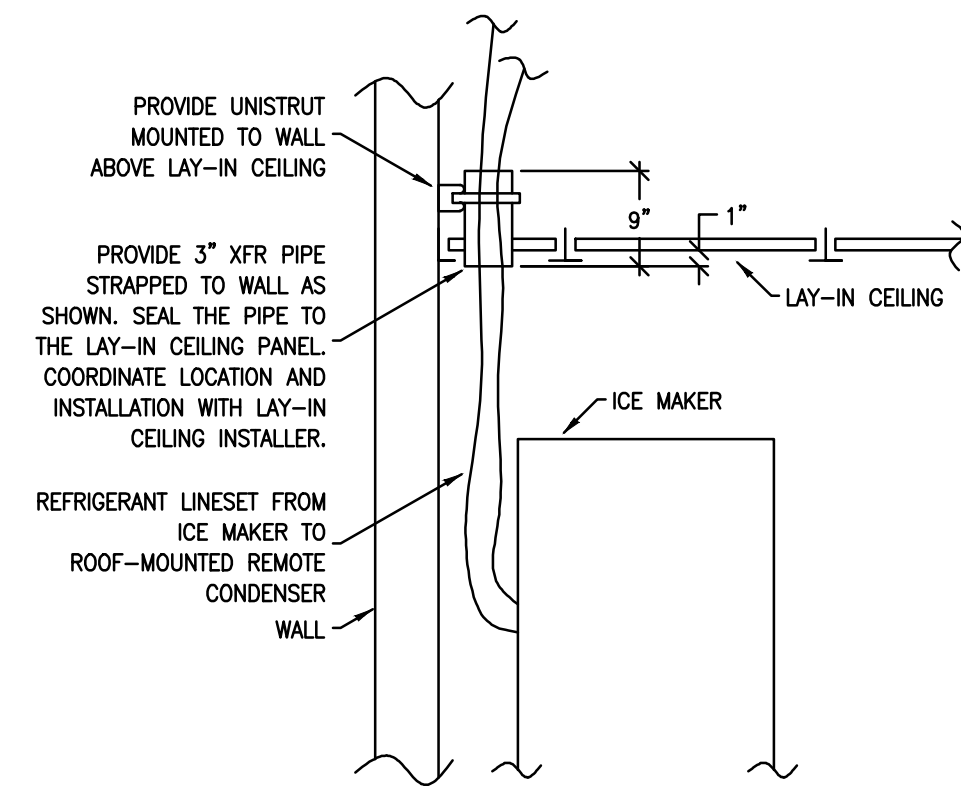
Drawn: NN/KL  
Checked: JCY  
Project No: 21074  
SCALE: N.T.S.

Contents:  
**MECHANICAL**  
DETAILS 1

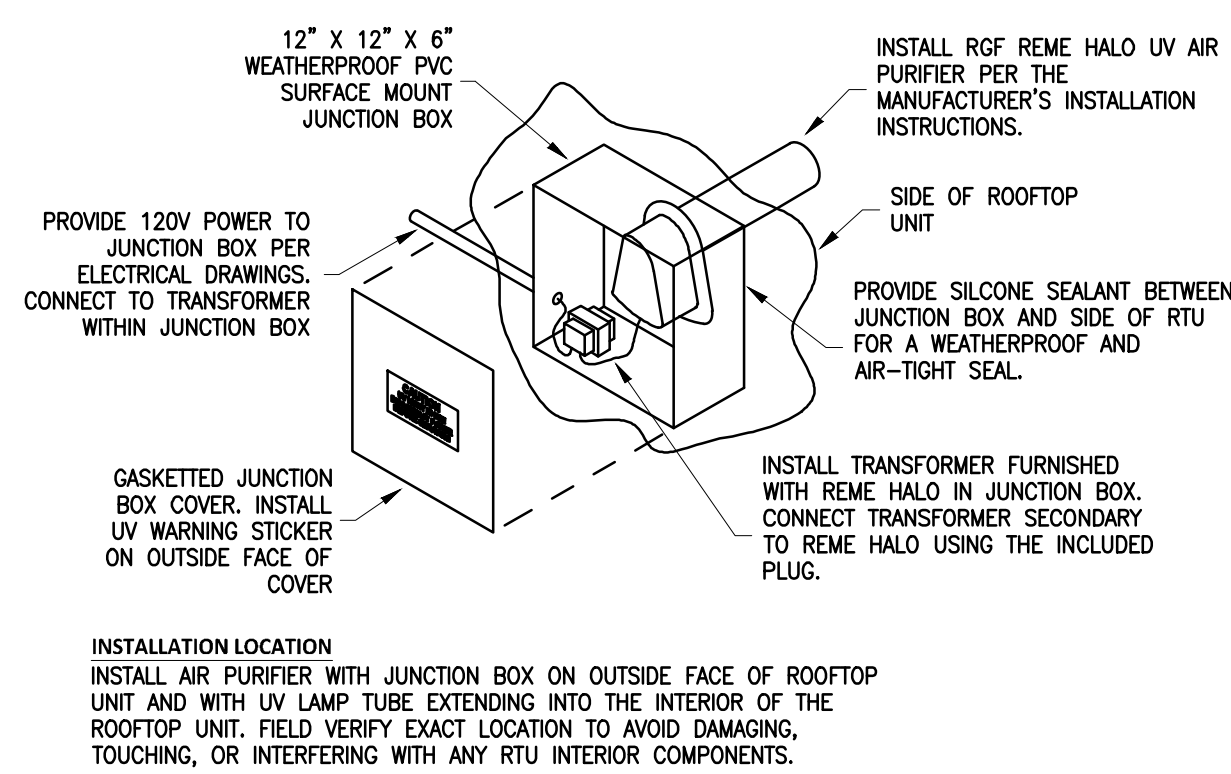
M302



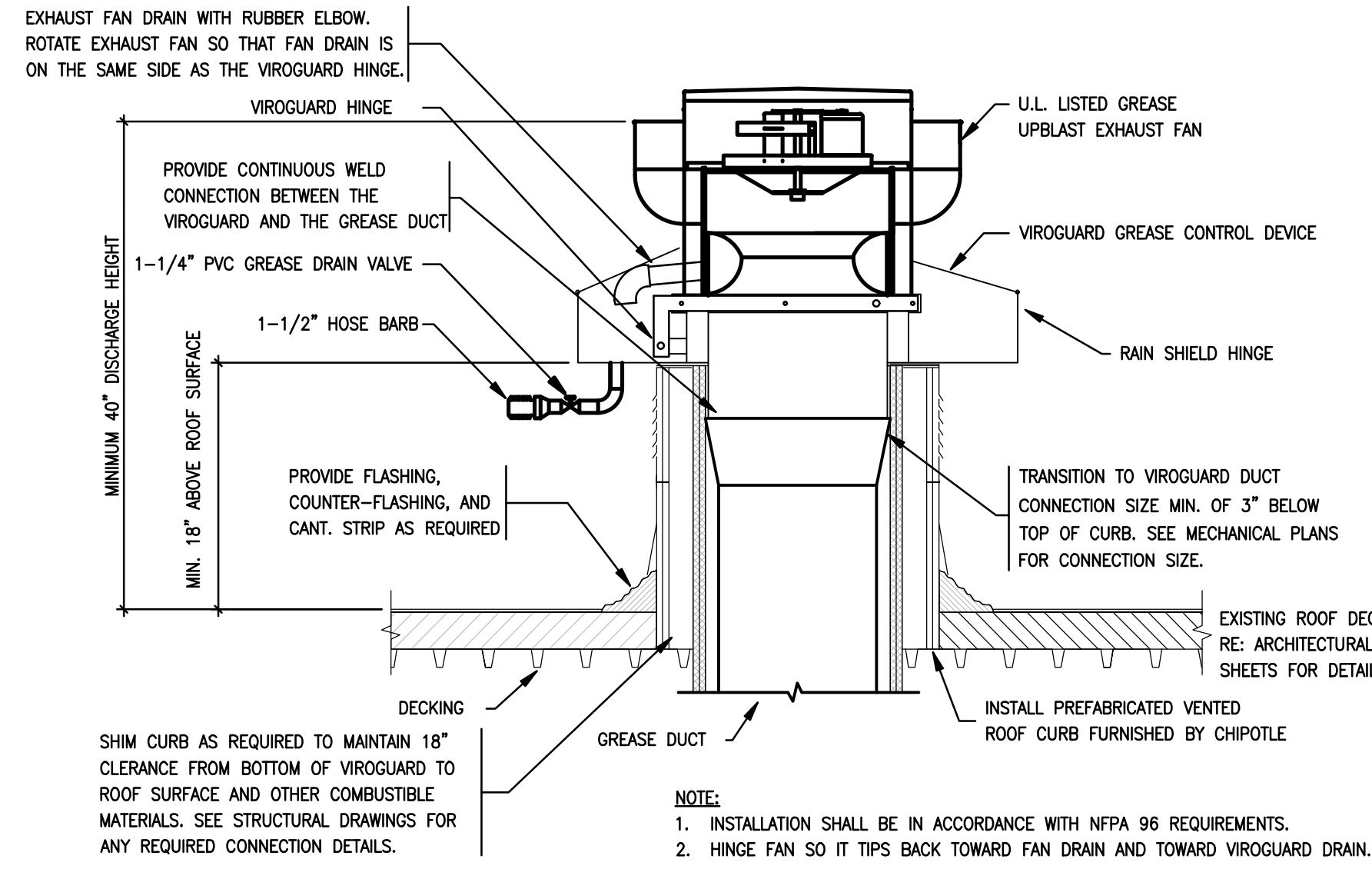
**1 HOOD EXHAUST SYSTEM INSTALLATION DETAIL**  
M303 NTS



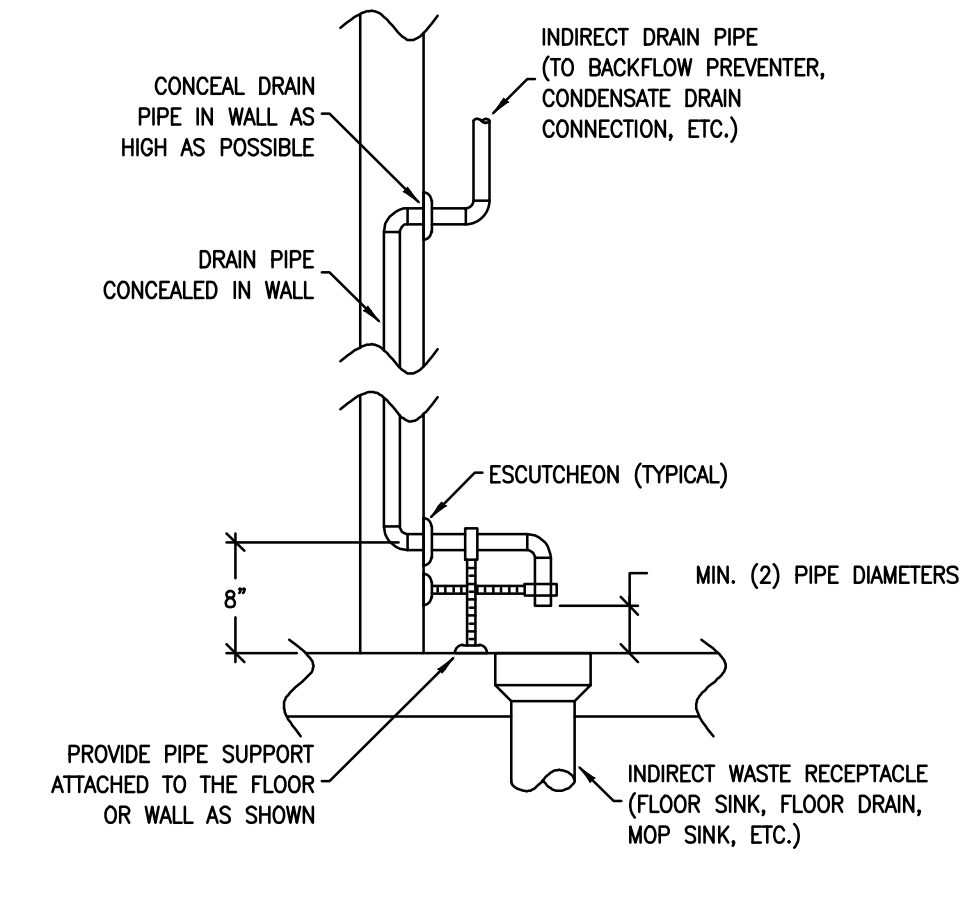
**4 CEILING PENETRATION DETAIL**  
M303 NTS



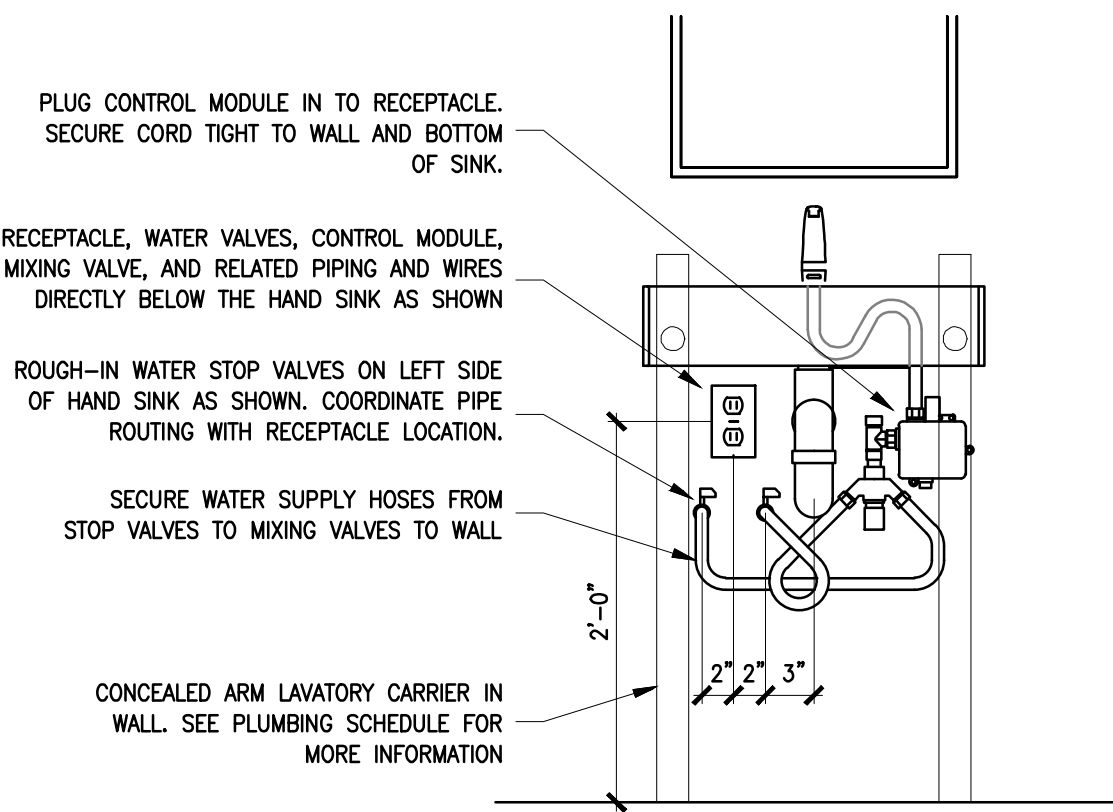
**7 UV AIR PURIFIER INSTALLATION**  
M303 NTS



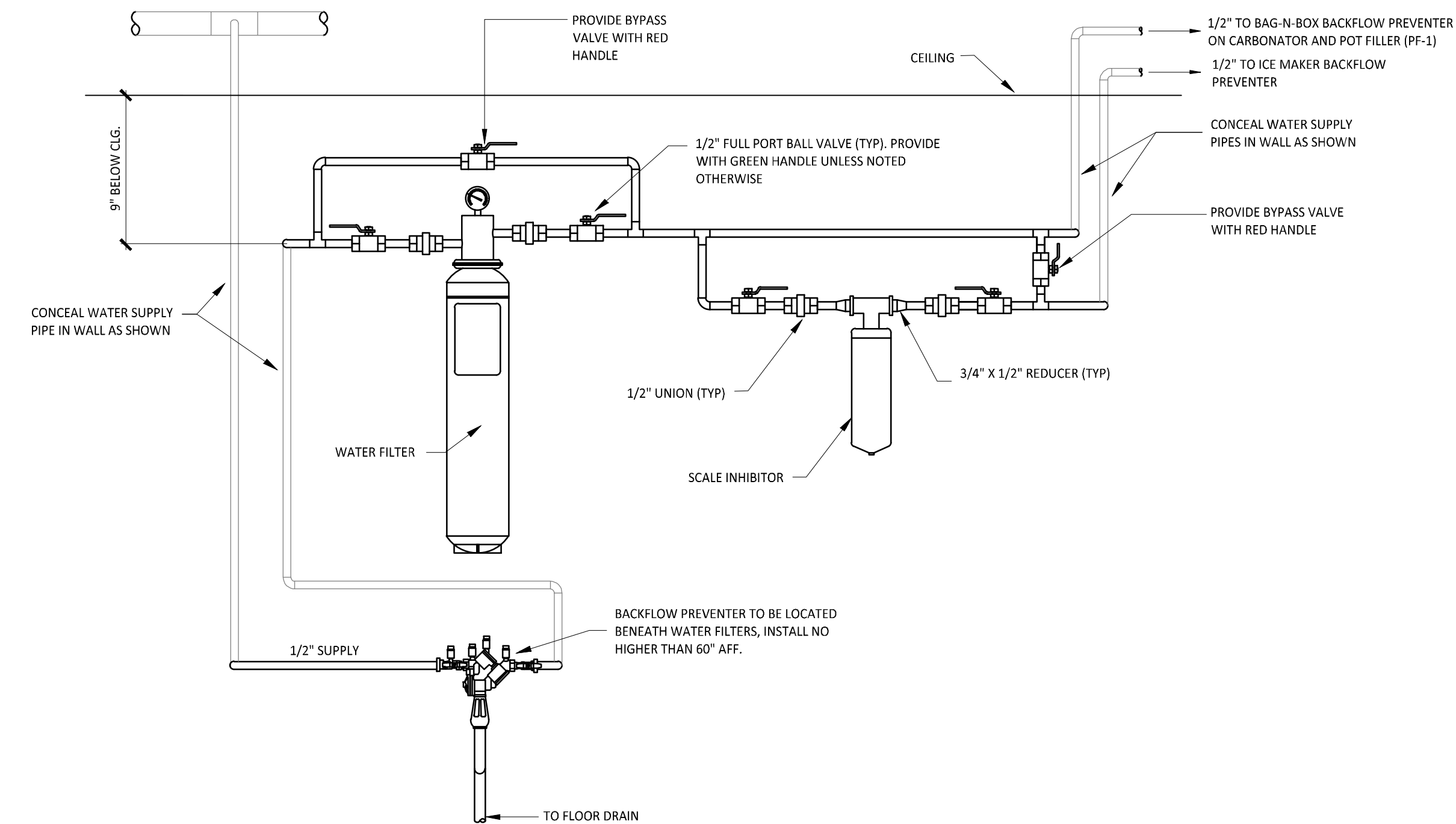
**2 KITCHEN EXHAUST FAN AND GREASE VIROGUARD SYSTEM INSTALLATION DETAIL**  
M303 NTS



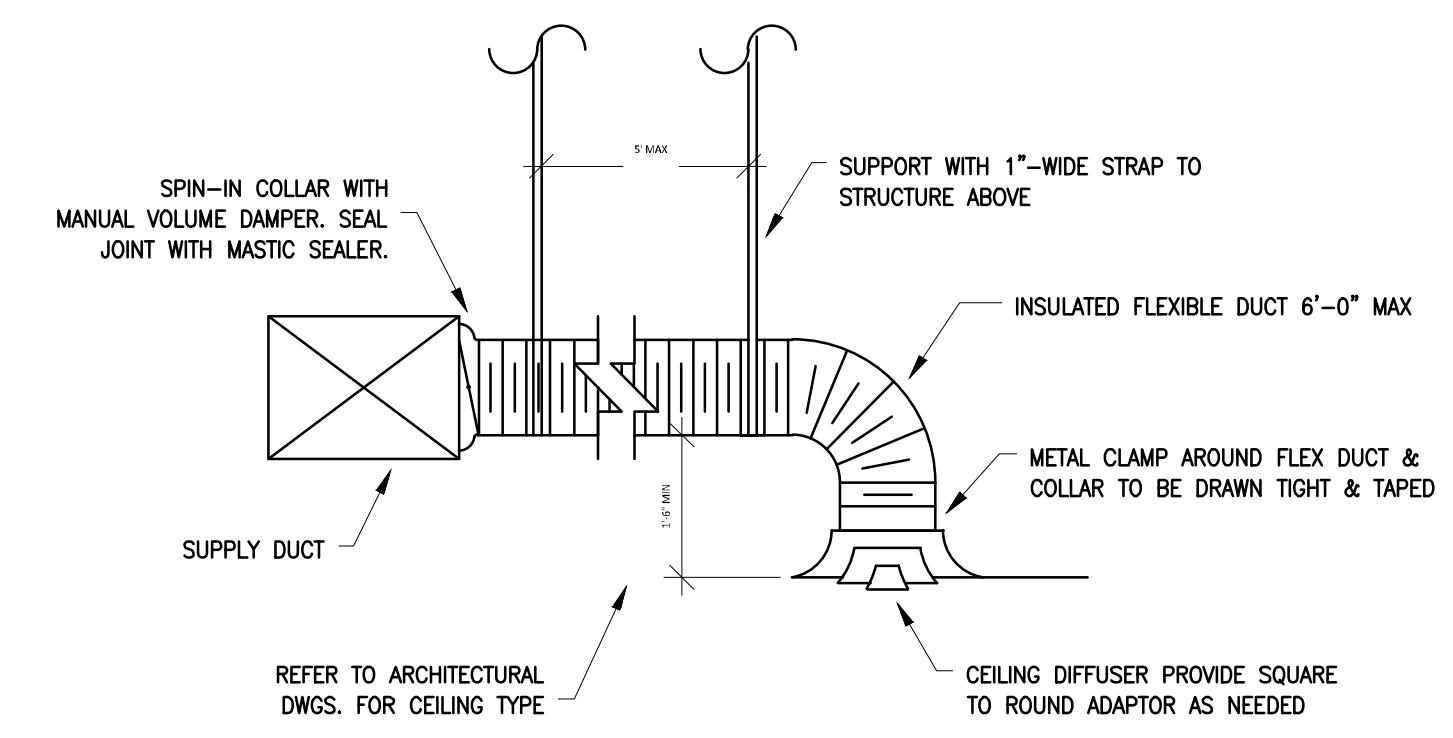
**3 INDIRECT WASTE PIPING DETAIL**  
M303 NTS



**5 WASHROOM LAVATORY DETAIL**  
M303 NTS



**6 WATER FILTRATION SYSTEM DETAIL**  
M303 NTS



**8 DIFFUSER CONNECTION DETAIL**  
M303 NTS

Consultant:

**SNC-LAVALIN**  
Engineering, Design and Project Management  
(E/P/M) Canada  
855 Lakeshore Blvd. West  
Toronto, Ontario  
Canada M8B 2V1  
Tel. 416-445-9255  
SNC-LAVALIN PROJECT # 2021-681535



COPYRIGHT 2019  
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
610 NEWPORT CENTER DR. SUITE 1300  
NEWPORT BEACH, CA, 92660  
TELEPHONE: 714.264.7392  
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
RICHMOND CENTRAL  
4720 MCCLELLAND RD., UNIT #1845  
RICHMOND, V6X 0M6  
B.C., CANADA

DESIGN BULLETIN: DB-06/2021

NO.	DATE	ISSUED FOR	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
Checked: JCY  
Project No: 21074  
SCALE: N.T.S.

Contents:  
**MECHANICAL**  
DETAILS 2

M303

FOR QUESTIONS, CALL THE  
Highwoods Group  
REGION 40  
PHONE: (919) 975-0420  
EMAIL: reg40@capliveaire.com

PATENT NUMBERS  
AC-PSP (UNITED STATES) - US PATENT 7963830 B2  
AC-PSP WALL (CANADA) - CA PATENT 2620509  
AC-PSP ISLAND (CANADA) - CA PATENT 2520330

**HOOD INFORMATION - JOB#5211062**

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFMFT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)					MJA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM				VEL	SP	END TO
1		5424 ND-2-ACPS-P-F	CAPTIVEAIRE	14' 3"	600 DEG	I	HEAVY	225	3200	10"	15"	4"	1800	1536	-0.854"	1950	798	430 SS WHERE EXPOSED	ALONE	ALONE

**HOOD INFORMATION**

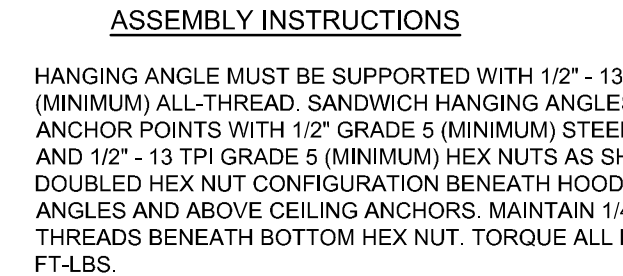
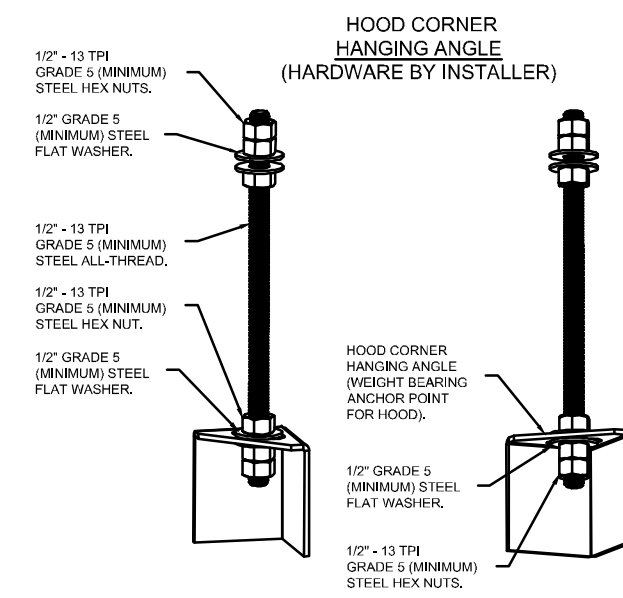
HOOD NO	TAG	FILTER(S)					LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #			SWITCHES QUANTITY
1		CAPTRATE SOLO FILTER	10	16"	16"	85% SEE FILTER SPEC	10	L55 SERIES E26	NO	LEFT	12"x54"x24"	ANSUL R-102	3.0/3.0	SC-311110MA	1 LIGHT 1 FAN	YES	1070 LBS

**HOOD OPTIONS**

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 6.00" HIGH FRONT, LEFT, RIGHT, RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS, LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS, INSULATION FOR BACK OF HOOD, FULL DIMENSION HANGING BRACKET - FRONT.

**PERFORATED SUPPLY PLENUM(S)**

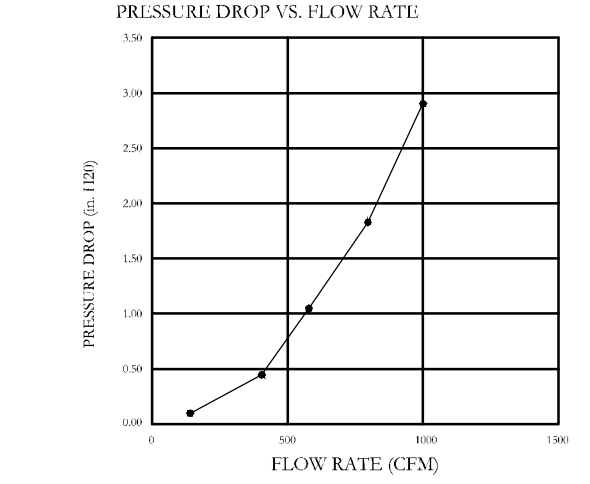
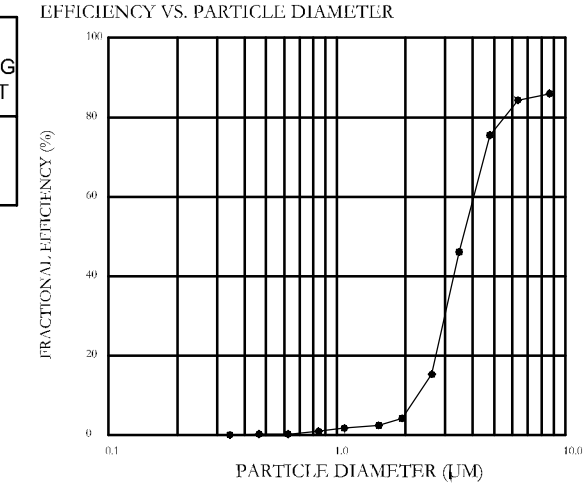
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1		Front	183"	22"	6"	MJA	10"	28"		850	0.166"
						MJA	10"	28"		850	0.166"
						MJA	10"	28"		850	0.166"
						AC		8"	114	0.041"	
						AC		8"	114	0.041"	
						AC		8"	114	0.041"	
						AC		8"	114	0.041"	
						AC		8"	114	0.041"	
						AC		8"	114	0.041"	
						AC		8"	114	0.041"	



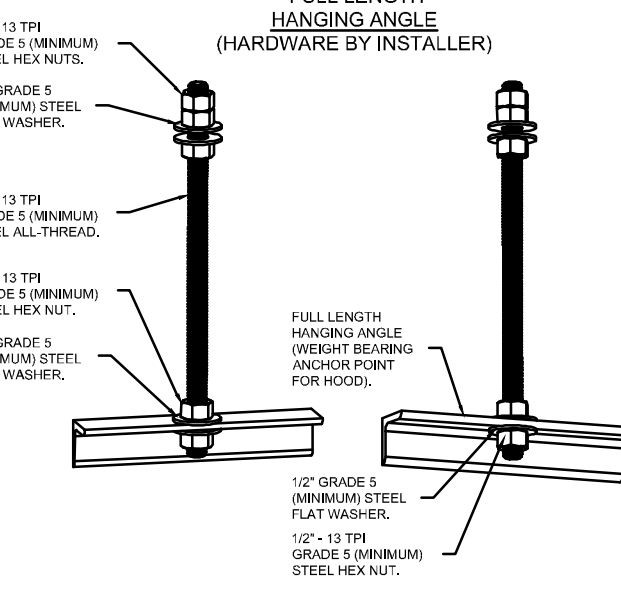
**ASSEMBLY INSTRUCTIONS**  
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH 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.

**SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER**

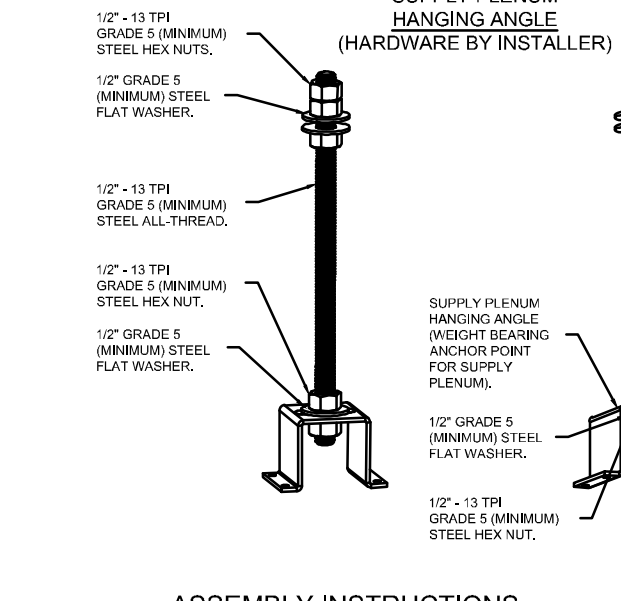
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE 5-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.  
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).  
UNITS 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.



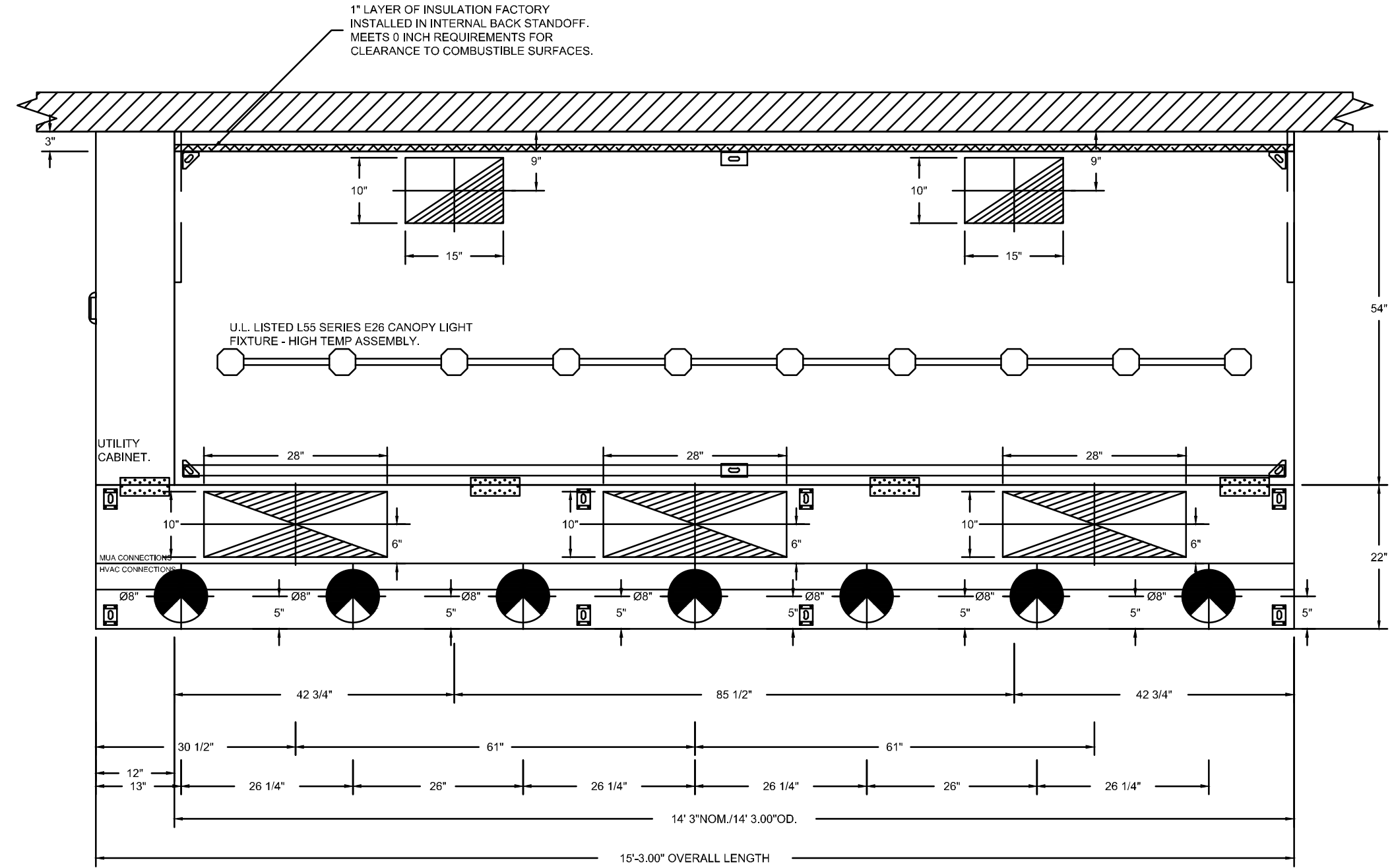
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
NFPA #96,  
NSF STANDARD #2,  
UL STANDARD #1046,  
INT. MECH. CODE (IMC),  
ULC-S649.



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



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



PLAN VIEW - HOOD #1  
14' 3.00" LONG 5424ND-2-ACPS-P-F  
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.  
ACPS-P SHIPS LOOSE FOR FIELD INSTALLATION

**REVISIONS**

NO.	DESCRIPTION	DATE

**CAPTIVEAIRE**  
Highwoods Group  
www.captiveaire.com  
4641 Parnham Park Rd., Raleigh, NC 27616 PHONE: (919) 975-0420 FAX: (919) 975-0577 EMAIL: reg40@capliveaire.com

Consultant:  
**SNC-LAVALIN**  
Engineering, Design and Project Management  
(EDPM) Canada  
850 Lakeshore Blvd. West  
Toronto, Ontario  
Canada M8B 2V1  
Tel: 416-445-9255  
SNC-LAVALIN PROJECT # 2021-681535



COPYRIGHT 2019  
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
610 NEWPORT CENTER DR. SUITE 1300  
NEWPORT BEACH, CA 92660  
TELEPHONE: 714.264.7392  
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
RICHMOND CENTRAL  
4720 MCCLELLAND RD., UNIT #1845  
RICHMOND, V6X 0M6  
B.C., CANADA

DESIGN BULLETIN: DB-06/2021

NO.	DATE	ISSUED FOR	STATUS
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

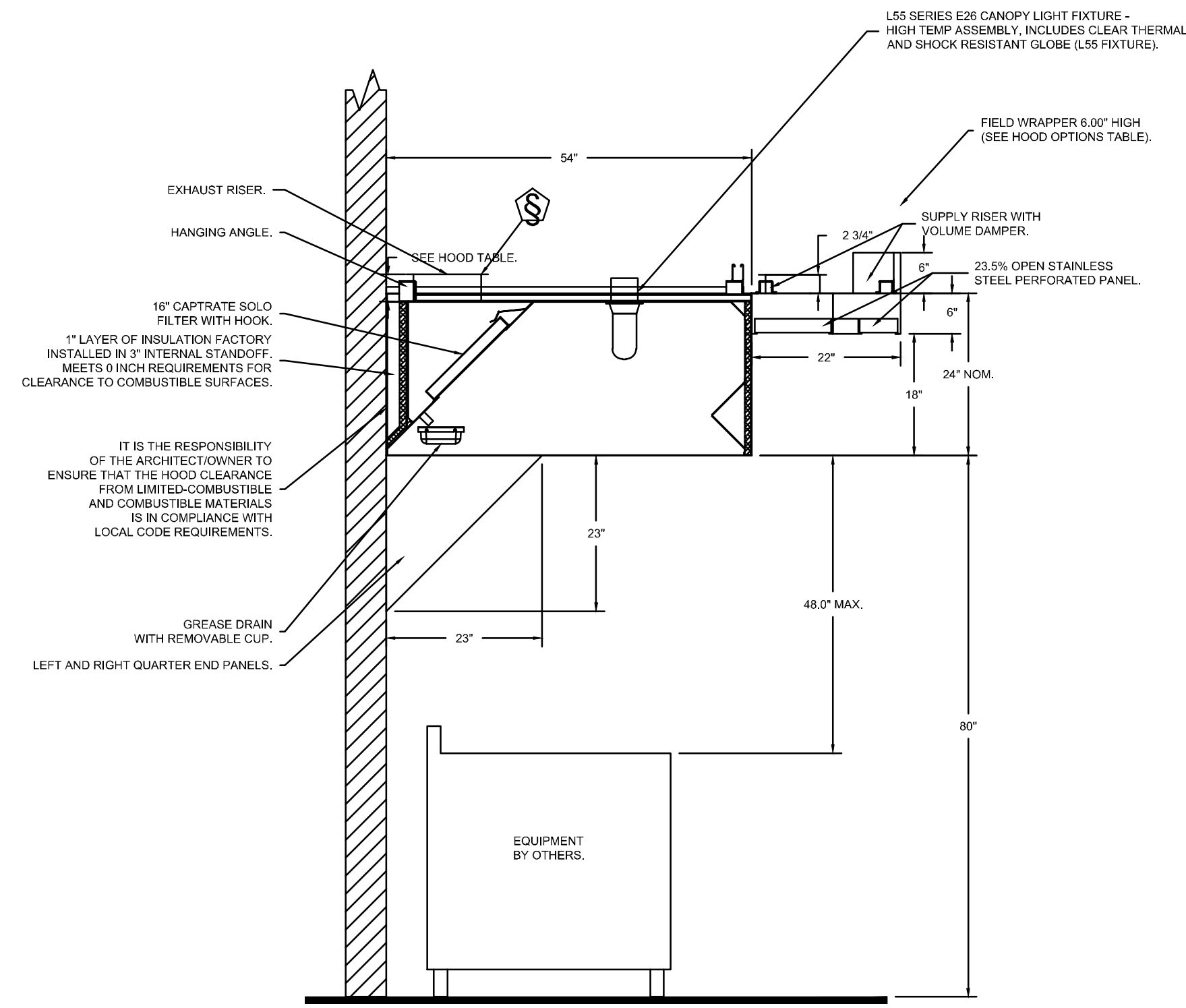
DATE: 12/20/2021  
DWG.#: 5211062  
DRAWN BY: JMB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 1

KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

Drawn: Checked:  
NV/KL JCY  
Project No. SCALE:  
21074 N.T.S.

Contents:  
MECHANICAL  
KITCHEN EXHAUST  
DETAILS



SECTION VIEW - MODEL 5424ND-2-ACPSP-P  
HOOD - #1

REVISIONS	
DESCRIPTION	DATE

**CAPTIVE**  
Highwoods Group

4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg@captiveme.com

CHIPOTLE RICHMOND CENTRAL #4321  
RICHMOND, BC, V6V 1V8

DATE: 12/20/2021  
DWG.#: 5211062  
DRAWN BY: JMB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO.  
2

KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

Consultant:

**SNC-LAVALIN**  
Engineering, Design and Project Management  
(E/P/M) Canada  
155 Lakeshore Blvd. East  
Toronto, Ontario  
Canada M3B 2Y1  
Tel: 416-445-9255  
SNC-LAVALIN PROJECT # 2021-681535

**C. V. YELINS**  
# 42058  
REGISTERED  
ENGINEER  
SNC-LAVALIN INC.  
PERMIT TO PRACTICE NO. 100042

COPYRIGHT 2019  
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.

**CHIPOTLE MEXICAN GRILL**

CHIPOTLE MEXICAN GRILL, INC.  
610 NEWPORT CENTER DR. SUITE 1300  
NEWPORT BEACH, CA, 92660  
TELEPHONE: 714.264.7392  
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
RICHMOND CENTRAL  
4720 MCCLELLAND RD., UNIT #1845  
RICHMOND, V6X 0M6  
B.C., CANADA

DESIGN BULLETIN: DB-06/2021

NO.	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
Checked: JCY  
Project No: 21074  
SCALE: N.T.S.

Contents:  
MECHANICAL  
KITCHEN EXHAUST  
DETAILS

M305

SECTION 23 38 13 13  
 SPECIFICATIONS  
 TAG: Commercial Kitchen Ventilation Hoods, Listed Commercial Kitchen Hoods

PART 1 - GENERAL

1.1 SUMMARY

- A. The ND2 series is a Type I, wall canopy hood for use over 600°F cooking surface temperatures. The aerodynamic design includes a mechanical baffle and performance enhancing lip for exceptional capture and containment.
- B. The hood shall have the size, shape, and performance specified on drawings.

1.2 SUBMITTALS

- A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the project's requirements and meet Federal, State, and Local codes and regulations.
- B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.
- C. The manufacturer shall supply complete computer generated submittal drawings, including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect, and owner for their use in construction, operation, and maintenance.

1.3 QUALITY ASSURANCE

- A. This hood is ETL-listed to standard UL710, ULC710, and ULC-S646 when installed in accordance with these installation instructions and National Fire Protection Association Standard "NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations."
- B. Built-in compliance with NSF/ANSI Standard 2.
- C. The hood shall be ETL Listed as:
  1. "Exhaust Hood Without Exhaust Damper."
  2. ETL Sanitation Listed and built in accordance with NFPA 96.
  3. The ETL label shall list temperature rating(s) and minimum CFM/ft rating(s).

1.4 WARRANTY

- A. All units shall be provided with the following standard warranty:
  1. This equipment is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 2-years from date of shipment.
- B. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 2-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.
- C. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints, and penetrations of the hood enclosure to the lower outermost perimeter, which directs and captures grease-laden vapor and exhaust gases, shall have a liquid-tight continuous external weld in accordance with NFPA 96.

- B. Duct sizes, CFM, and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

2.2 CONSTRUCTION

- A. Construction shall be type 430 stainless steel.
- B. Double wall insulated front to eliminate condensation and increase rigidity on wide sizes. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- C. Hood shall be equipped with a minimum of four connections for hanger rods. Hood lengths greater than 12' will have added hangers.
- D. Exhaust duct collar to be 4" high with flange.
- E. The grease drain system shall be an enclosed integral part of the hood back and have slopes with an exposed, removable 1/2 grease cup to facilitate cleaning.
- F. An integral baffle to direct grease laden vapors toward the exhaust filter bank.
- G. Hood shall be furnished with UL classified filters, supplied in size and quantity as required by ventilator.
- H. All seams shall be welded and have stainless steel on exposed surfaces.

2.3 LIGHTING

- A. L55 Series canopy light fixture, includes clear thermal and shock resistant globe.

2.4 FILTERS

- A. Stainless Steel Captrate Solo filter with hook, ETL Listed. Particulate capture efficiency: 85% efficient at 9 microns, 76% efficient at 5 microns.

2.5 OPTIONS

- A. Fire Suppression System: UL 300 fire suppression system.
- B. Optional perforated supply plenum shall provide make-up air discharged below the cooking equipment.
  1. Perforated diffuser plates shall be included in the design to provide even air distribution.
  2. Unexposed surfaces shall be constructed of aluminized steel. Plenum shall be insulated to prevent condensation.
  3. Dual Plenum (AC-PSP)
- C. Hood Mounted Utility Cabinet - Cabinet can store listed fire suppression system, listed components, pre-wired electrical controls.

2.6 ACCESSORIES

- A. End Panel(s) maximize hood performance and eliminate the effects of cross drafts in the kitchen. Units constructed of stainless steel and sized according to hood width and cooking equipment. Exposed edges hemmed for safety and rigidity. Selected panels:
  1. Quarter End Panel
- B. Wrapper(s) may be installed from the factory or field installed. Wrapper(s) selected:
  1. Wrapper
- C. Miscellaneous option(s) selected:
  1. Full Dimension Hanging Bracket – Unistrut added to allow for various hood mounting locations.
  2. Insulation for Back of Hood – Backside of hood is fully insulated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been

corrected in a manner acceptable to installer.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

REVISIONS	
DESCRIPTION	DATE

**CAPTIVE**

Highwoods Group

www.captiveare.com  
 4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg@0@captiveare.com

CHIPOTLE RICHMOND CENTRAL #4321  
 RICHMOND, BC, V6V 1V8

DATE: 12/20/2021  
 DWG.#: 5211062  
 DRAWN BY: JMB-40  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

SHEET NO.  
 3

KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

Consultant:

**SNC-LAVALLIN**  
 Engineering, Design and Project Management  
 (EDPM) Canada  
 85 Lorne Street  
 Toronto, Ontario  
 Canada M3B 2V1  
 Tel: 416-445-9255  
 SNC-LAVALLIN PROJECT # 2021-681535



COPYRIGHT 2019  
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
 610 NEWPORT CENTER DR. SUITE 1300  
 NEWPORT BEACH, CA, 92660  
 TELEPHONE: 714.264.7392  
 INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
 RICHMOND CENTRAL  
 4720 MCCLELLAND RD., UNIT #1845  
 RICHMOND, V6X 0M6  
 B.C., CANADA

DESIGN BULLETIN: DB-06/2021

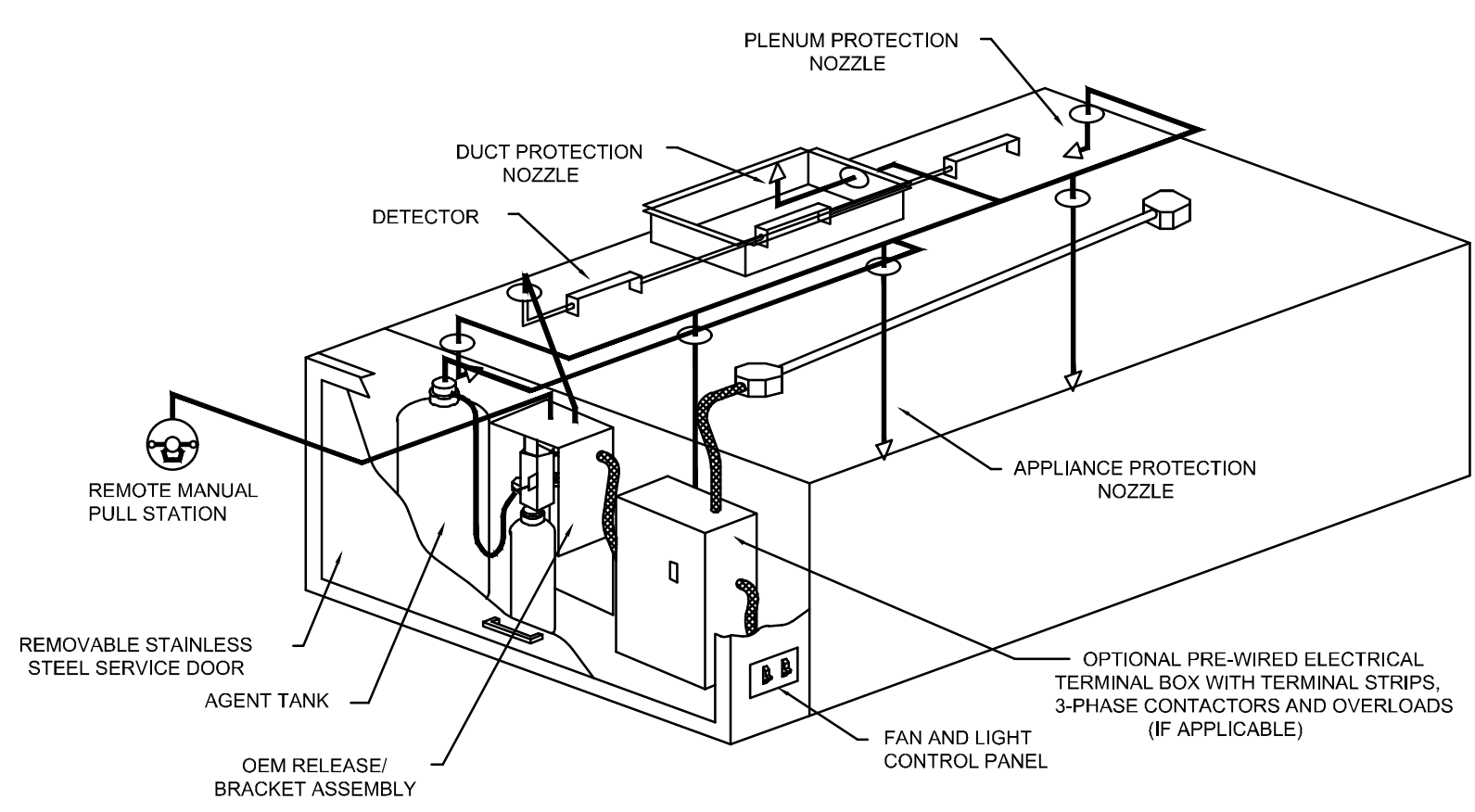
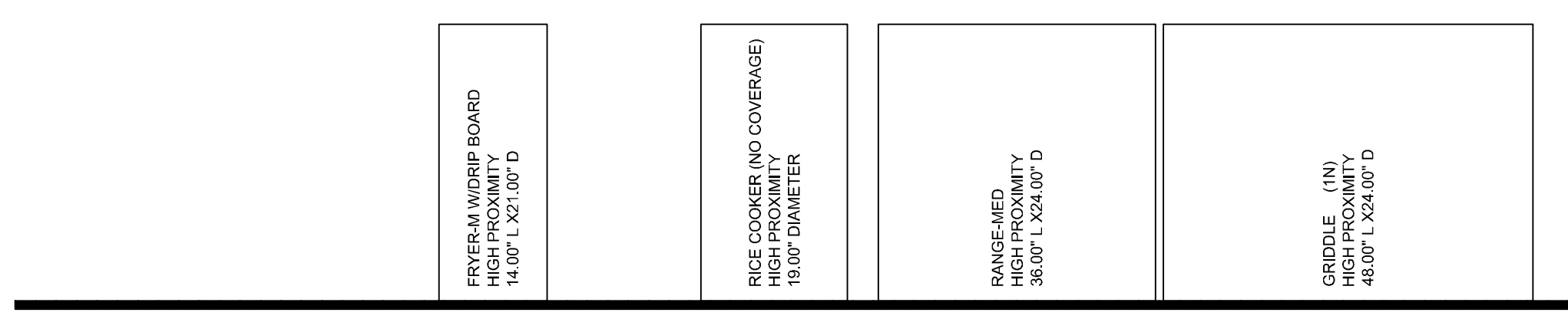
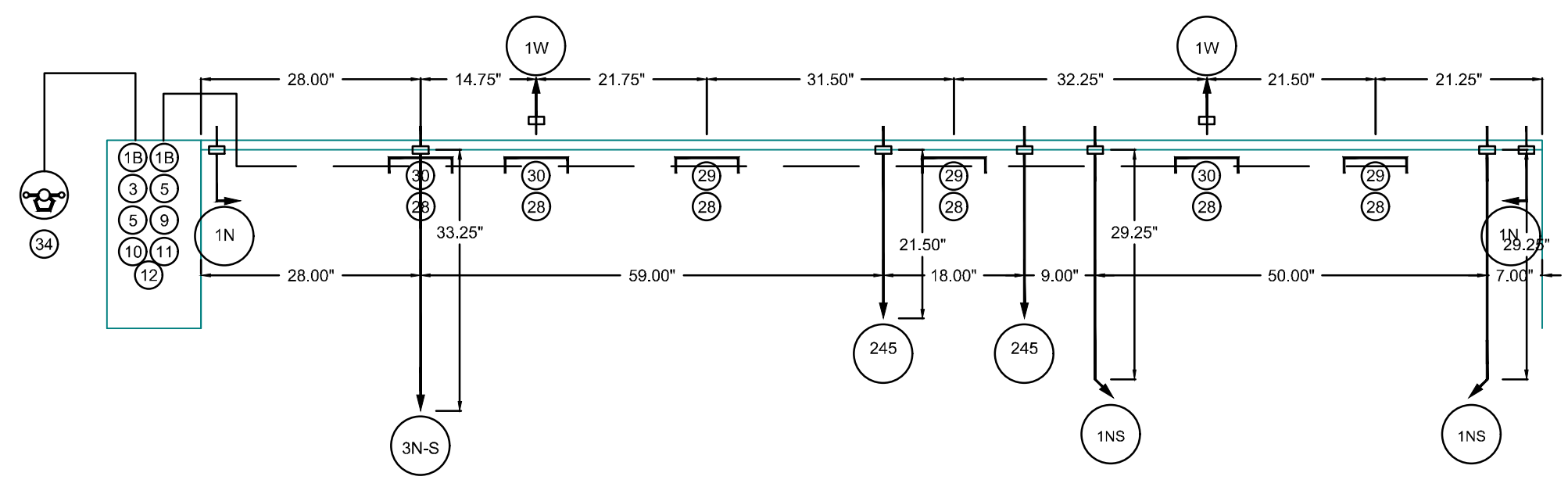
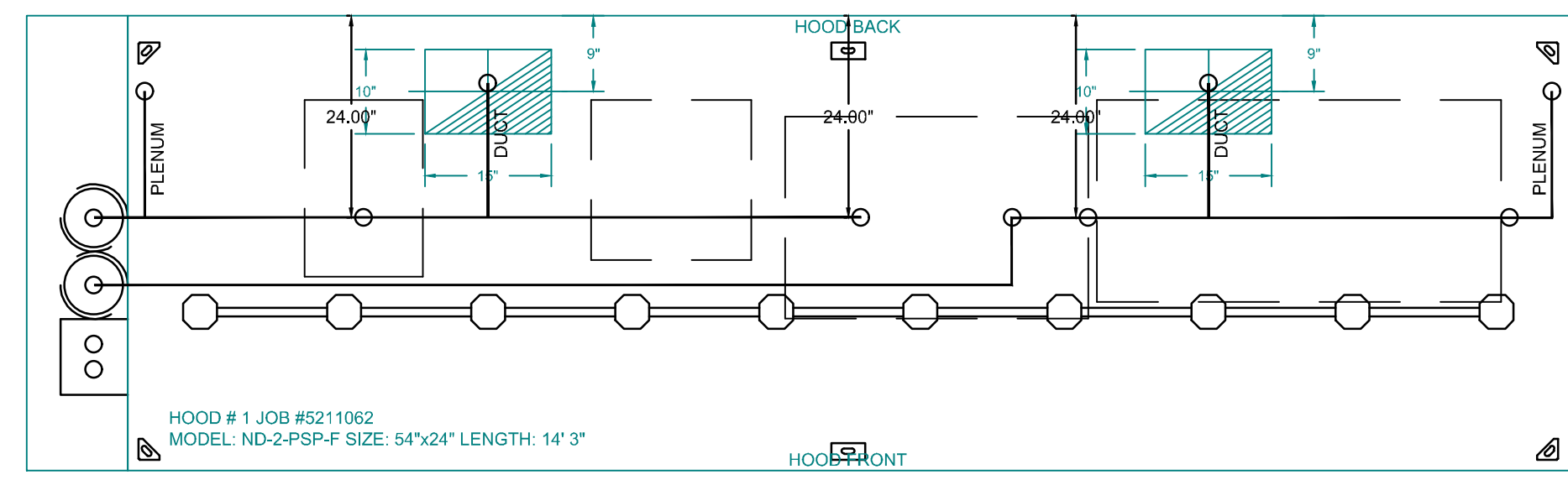
NO.	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
 Checked: JCY  
 Project No: 21074  
 SCALE: N.T.S.

Contents:  
 MECHANICAL  
 KITCHEN EXHAUST  
 DETAILS

M306





TYPICAL ANSUL R-102 SYSTEM LAYOUT

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES). ONE MECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2" PERMIT, AND SYSTEM TEST.

EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE). GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

**NOTES**

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER 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.

**SPECIFICATIONS**

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL).

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

**NOTES**

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER 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.

JOB #: 5211062  
JOB NAME: CHIPOTLE RICHMOND #4321

SYSTEM SIZE: ANSUL-3.0/3.0 TOTAL FP REQUIRED: 13.  
HOOD # 1 14' 3.00" LONG x 54" WIDE x 24" HIGH.  
RISER # 1 SIZE: 10" x 15".  
RISER # 2 SIZE: 10" x 15".  
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

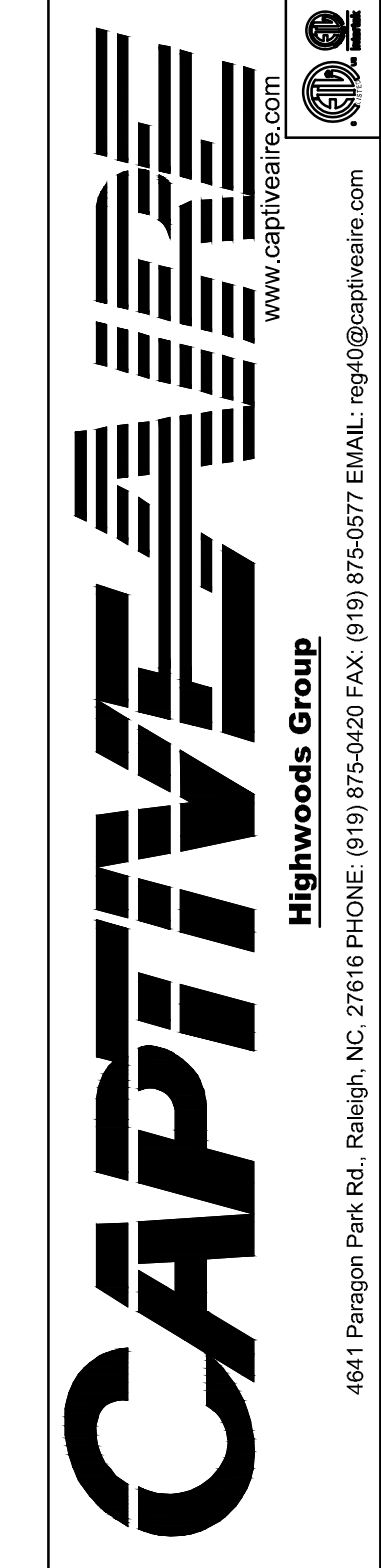
**LEGEND - FIRE CABINET ANSUL SYSTEM**

- 1A 1.5 GALLON TANK.
- 1B 3 GALLON TANK.
- 2 OEM AUTOMAN RELEASE.
- 3 OEM REGULATED RELEASE.
- 4 OEM REGULATED ACTUATOR.
- 5 ANSULX LIQUID AGENT (3 GAL.).
- 6 ANSULX LIQUID AGENT (1.5 GAL.).
- 7 CARTRIDGE (101-20).
- 8 CARTRIDGE (101-10).
- 9 CARTRIDGE (101-30).
- 9A CARTRIDGE (LT-A-101-30).
- 9B DOUBLE TANK CARTRIDGE.
- 10 TEST LINK.
- 11 DOUBLE MICROSWITCH.
- 12 HOSE ASSEMBLY.
- 1100 DUCT NOZZLE (430913).
- 2W DUCT NOZZLE (419337).
- 1W NOZZLE ASSEMBLY (419336).
- 1F NOZZLE ASSEMBLY (419333).
- 1N NOZZLE ASSEMBLY (419335).
- 1/2N NOZZLE ASSEMBLY (419334).
- 3N NOZZLE ASSEMBLY (419338).
- 245 NOZZLE ASSEMBLY (419340).
- 230 NOZZLE ASSEMBLY (419339).
- 2120 NOZZLE ASSEMBLY (419343).
- 290 NOZZLE ASSEMBLY (419342).
- 260 NOZZLE ASSEMBLY (419341).
- 28 DETECTOR BRACKET.
- 29 LOW TEMP FUSIBLE LINK.
- 30 HIGH TEMP FUSIBLE LINK.
- MGV MECHANICAL GAS VALVE.
- EGV ELECTRICAL GAS VALVE.
- 34 REMOTE MANUAL PULL STATION.
- S SWIVEL ADAPTOR.

JOB #: 5211062.  
JOB NAME: CHIPOTLE RICHMOND CENTRAL #4321.

SYSTEM SIZE: ANSUL-3.0/3.0 TOTAL FP REQUIRED: 13.  
HOOD # 1 14' 3.00" LONG x 54" WIDE x 24" HIGH.  
RISER # 1 SIZE: 10" x 15".  
RISER # 2 SIZE: 10" x 15".

REVISIONS	
DESCRIPTION	DATE



CHIPOTLE RICHMOND CENTRAL #4321  
RICHMOND, BC, V6V 1V8

DATE: 12/20/2021  
DWG.#: 5211062  
DRAWN BY: JMB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 5

KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

Consultant:  
SNC-LAVALIN  
Engineering, Design and Project Management  
(EDPM) Canada  
55 Lorne St. 10th Floor  
Toronto, Ontario  
Canada M5B 2V1  
Tel: 416-445-9255  
SNC-LAVALIN PROJECT # 2021-681535



COPYRIGHT 2019  
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
610 NEWPORT CENTER DR., SUITE 1300  
NEWPORT BEACH, CA, 92660  
TELEPHONE: 714.264.7392  
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
RICHMOND CENTRAL  
4720 MCCLELLAND RD., UNIT #1845  
RICHMOND, V6X 0M6  
B.C., CANADA

DESIGN BULLETIN: DB-06/2021

NO.	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
Checked: JCY  
Project No: 21074  
SCALE: N.T.S.

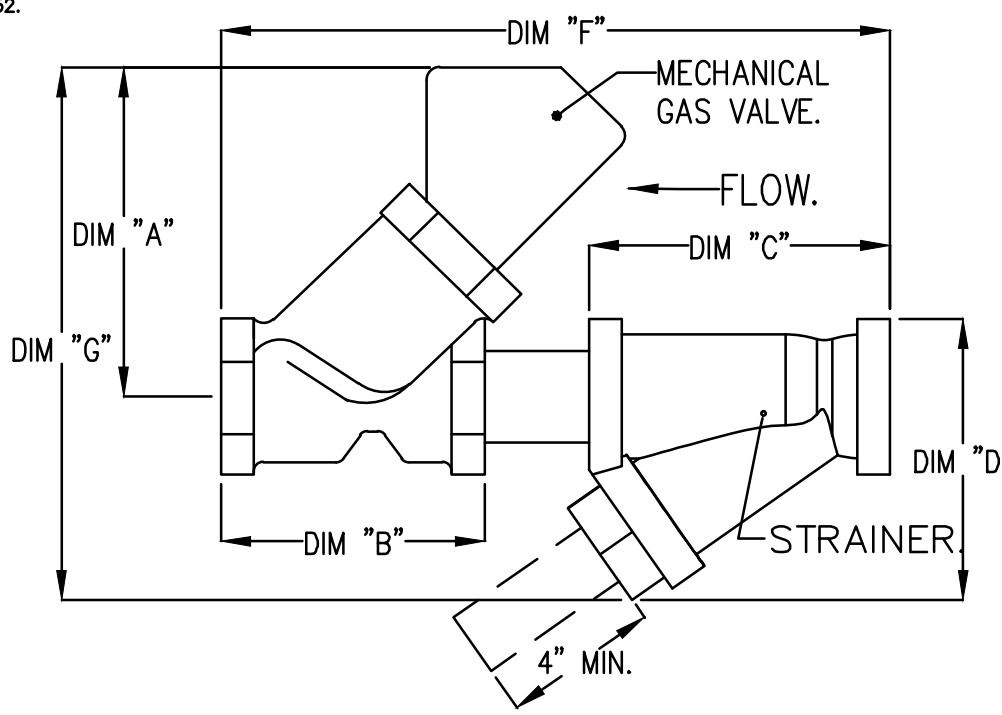
Contents:  
MECHANICAL  
KITCHEN EXHAUST  
DETAILS

M308

GAS VALVES AND STRAINERS																
TYPE	SIZE	VOLTAGE	GAS VALVE SIZING			GAS VALVE DIMENSIONS					INSTALLATION	PART NUMBERS				
			MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"		DIM "E"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER
GAS VALVE FOR FS#1 → MECHANICAL	1-1/2"	N/A	0 PSI (0 IN.W.C.)	10 PSI (277 IN.W.C.)	2,630,000 BTU/HR	1,706,569 BTU/HR	6-3/8"	4-7/8"	5-3/4"	6-3/16"	12-5/8"	11-3/8"	HORIZONTAL	27-55607	4417K67	MGVA1-1/2

**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>3/4</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>3/4</sup>



REVISIONS	
DESCRIPTION	DATE

**CAPTIVE**

Highwoods Group

www.captiveare.com  
 4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875-0420 FAX: (919) 875-0777 EMAIL: reg40@captiveare.com

CHIPOTLE RICHMOND CENTRAL #4321  
 RICHMOND, BC, V6V 1V8

DATE: 12/20/2021  
 DWG.#: 5211062  
 DRAWN BY: JMB-40  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING

SHEET NO.  
 6

KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

Consultant:

**SNC-LAVALIN**  
 Engineering, Design and Project Management  
 (E/D/P/M) Canada  
 55 Line 10, Wood  
 Toronto, Ontario  
 Canada M3B 2V1  
 Tel: 416-445-9255  
 SNC-LAVALIN PROJECT # 2021-681535



COPYRIGHT 2019  
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
 610 NEWPORT CENTER DR. SUITE 1300  
 NEWPORT BEACH, CA, 92660  
 TELEPHONE: 714.264.7392  
 INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
 RICHMOND CENTRAL  
 4720 MCCLELLAND RD., UNIT #1845  
 RICHMOND, V6X 0M6  
 B.C., CANADA

DESIGN BULLETIN: DB-06/2021

NO.	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
 Checked: JCY  
 Project No: 21074  
 SCALE: N.T.S.

Contents:  
 MECHANICAL  
 KITCHEN EXHAUST  
 DETAILS

M309

**EXHAUST FAN INFORMATION - JOB#5211062**

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	EF-1	1	DU200HFA	CAPTIVEAIRE	3200	2.000	1336	TEFC PREMIUM	5.000	2.3810	3	575	5.1	779 FPM	240	26
2	EF-2	1	DR12HFA	CAPTIVEAIRE	275	0.750	1486	TEAO-ECM	0.250	0.1460	1	115	2.9		49	9.7

**MUA FAN INFORMATION - JOB#5211062**

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
3	MAU-1	1	A1-D-250-15D	15MF-1-MOD	A1-D-250	1000	1950	0.450	2010	ODP PREMIUM	2.000	1.3310	3	575	2.1	2.7A	15A	508	21

**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(%)
3	MAU-1	223711	205814	110°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	REMOVE HINGE KIT LABEL FROM THE FAN BASE
		1	LOAD REACTOR MOUNTED IN FAN
2	EF-2	1	2 YEAR PARTS WARRANTY
		1	1/2-BDD DAMPER
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION
3	MAU-1	1	2 YEAR PARTS WARRANTY
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	LOW FIRE START
		1	EXHAUST CONTACTOR BEFORE AIRFLOW SWITCH - FIELD WIRED
		1	UPSTREAM PILOT FOR SIZES 1-3
		1	FREESTAT (10)
		1	LOAD REACTOR MOUNTED IN FAN
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
		1	2 YEAR PARTS WARRANTY

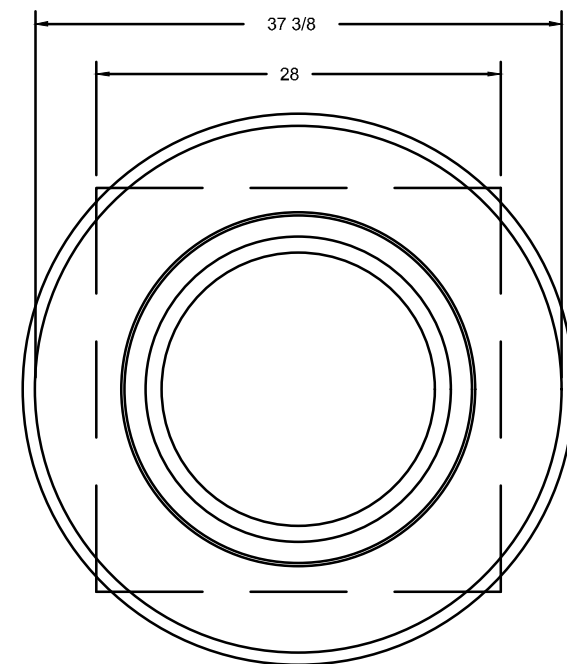
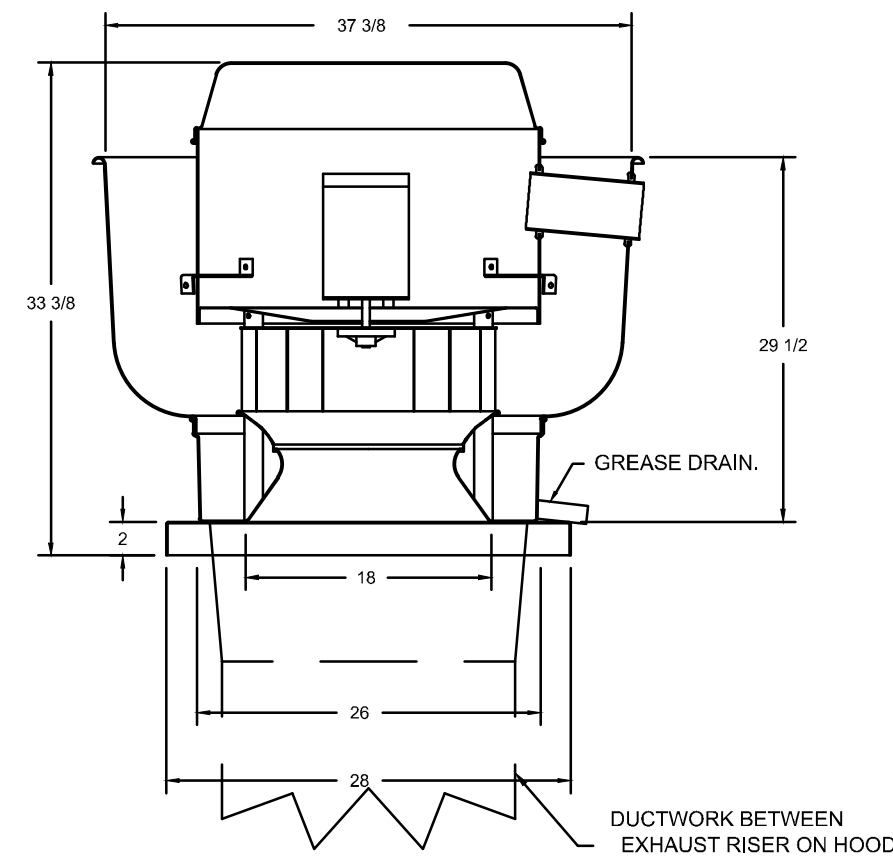
**FAN ACCESSORIES**

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	EF-2		YES					
3	MAU-1						YES	

**CURB ASSEMBLIES**

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	#1	EF-1	37 LBS	CURB	26.500"W X 26.500"L X 20.000"H ALONG LENGTH, RIGHT VENTED.
2	#2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H ALONG LENGTH, RIGHT.
3	#3	MAU-1	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.

FAN #1 DU200HFA - EXHAUST FAN (EF-1)



TOP VIEW

**FEATURES:**

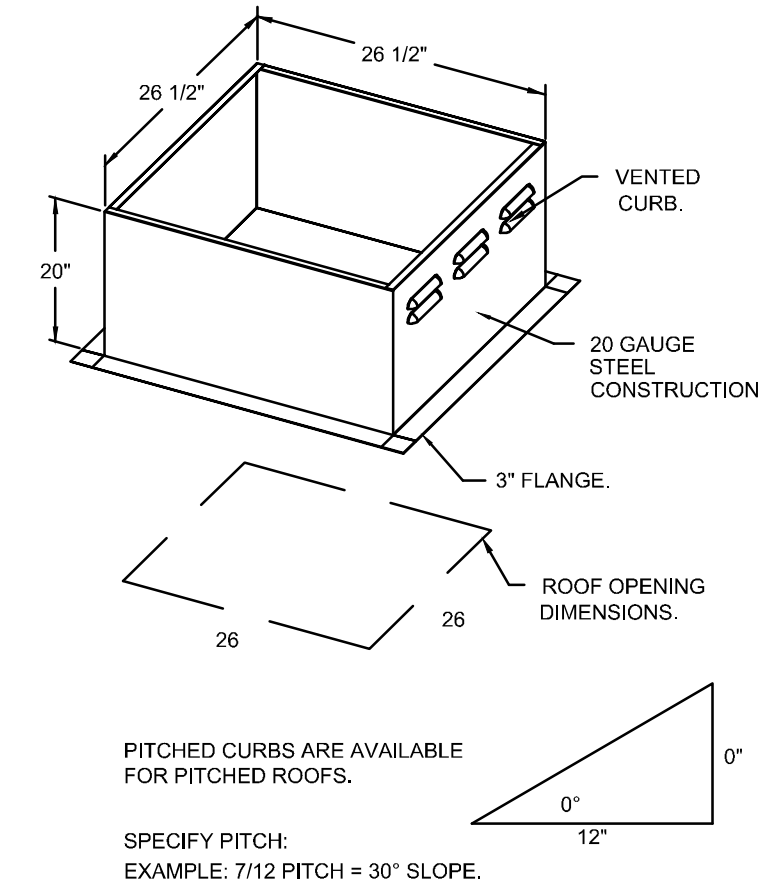
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND UL-C-9845
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT 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.
- REMOVE HINGE KIT LABEL FROM THE FAN BASE.
- LOAD REACTOR MOUNTED IN FAN.
- 2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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

REVISIONS	
DESCRIPTION	DATE



**SNC-LAVALIN**  
 Engineering, Design and Project Management  
 (EP/M) Canada  
 55 Lorne Ave. West  
 Toronto, Ontario  
 Canada M3B 2V1  
 Tel: 416-445-9255  
 Fax: 416-445-9255  
 www.captiveaire.com  
 Highwoods Group  
 4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg@highwoods.com

**CHIPOTLE RICHMOND CENTRAL #4321**  
**RICHMOND, BC, V6V 1V8**

**DATE:** 12/20/2021  
**DWG.#:** 5211062  
**DRAWN BY:** JMB-40  
**SCALE:** 3/4" = 1'-0"  
**MASTER DRAWING**

**SHEET NO.**  
7

KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

Consultant:  

**SNC-LAVALIN**  
 Engineering, Design and Project Management  
 (EP/M) Canada  
 55 Lorne Ave. West  
 Toronto, Ontario  
 Canada M3B 2V1  
 Tel: 416-445-9255  
 Fax: 416-445-9255  
 www.captiveaire.com  
 Highwoods Group  
 4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg@highwoods.com



COPYRIGHT 2019  
 THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
 610 NEWPORT CENTER DR., SUITE 1300  
 NEWPORT BEACH, CA, 92660  
 TELEPHONE: 714.264.7392  
 INTERNET: WWW.CHIPOTLE.COM

**STORE NO.:** 52-4321  
**RICHMOND CENTRAL**  
**4720 MCCLELLAND RD., UNIT #1845**  
**RICHMOND, V6X 0M6**  
**B.C., CANADA**

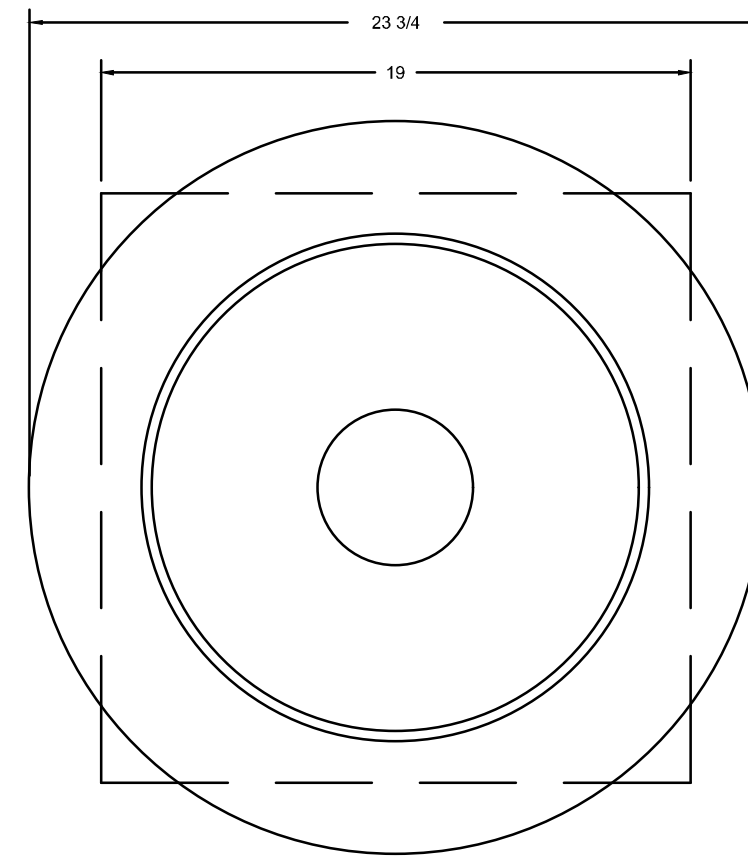
DESIGN BULLETIN: DB-06/2021

NO	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

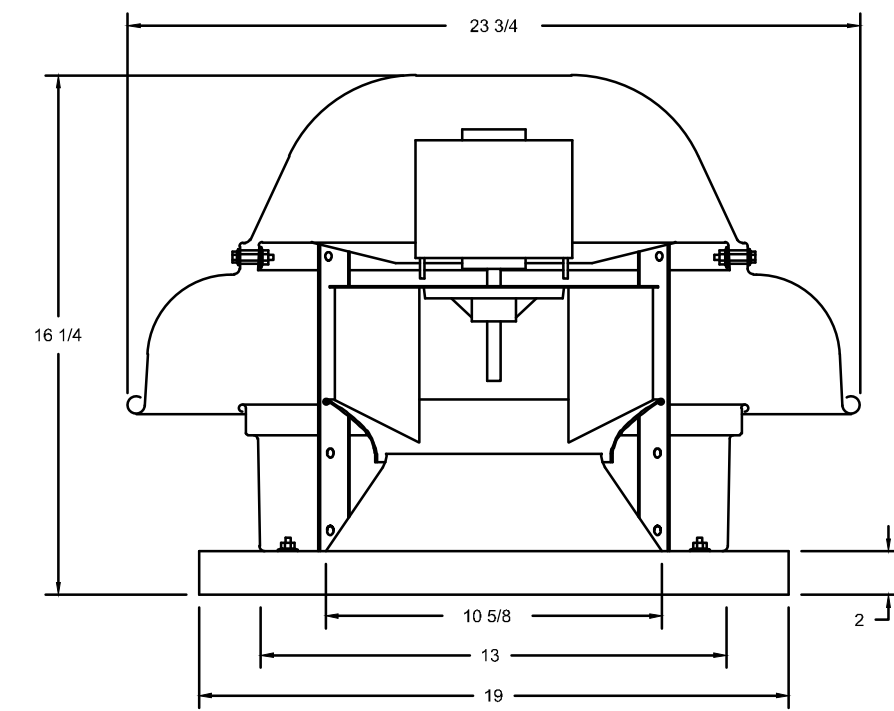
Drawn: NN/KL  
 Checked: JCY  
 Project No: 21074  
 SCALE: N.T.S.

Contents:  
**MECHANICAL**  
**KITCHEN EXHAUST**  
**DETAILS**

FAN #2 DR12HFA - EXHAUST FAN (EF-2)



TOP VIEW

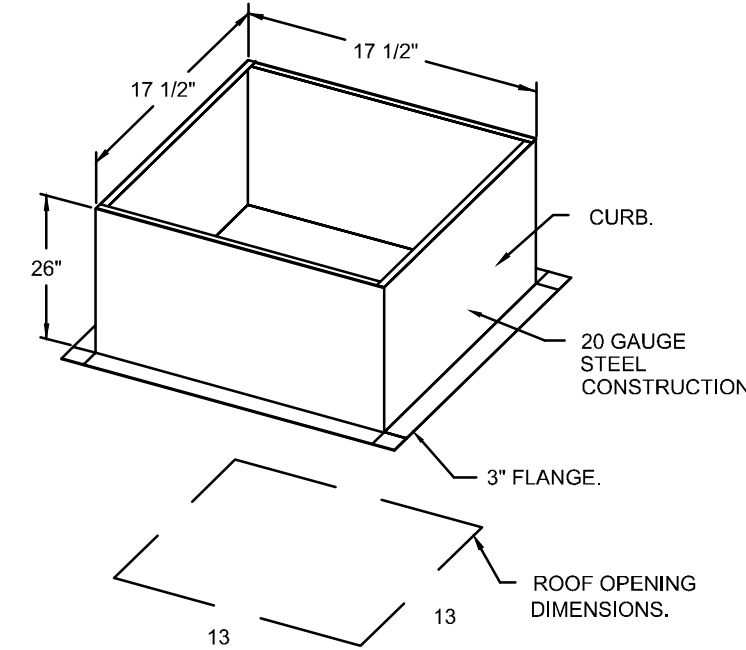


**FEATURES:**

- DIRECT DRIVE CONSTRUCTION (NO BELTSPULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.

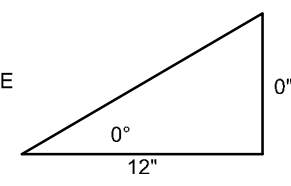
**OPTIONS**

- 1. 12-8DD DAMPER, ECM WIRING PACKAGE - MANUAL OR 0-30VDC REFERENCE SPEED CONTROL (TELCO MOTOR), COW ROTATION.
- 2. YEAR PARTS WARRANTY.

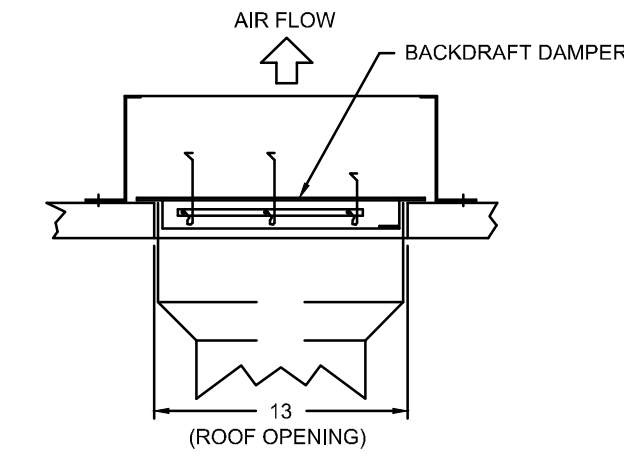


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

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

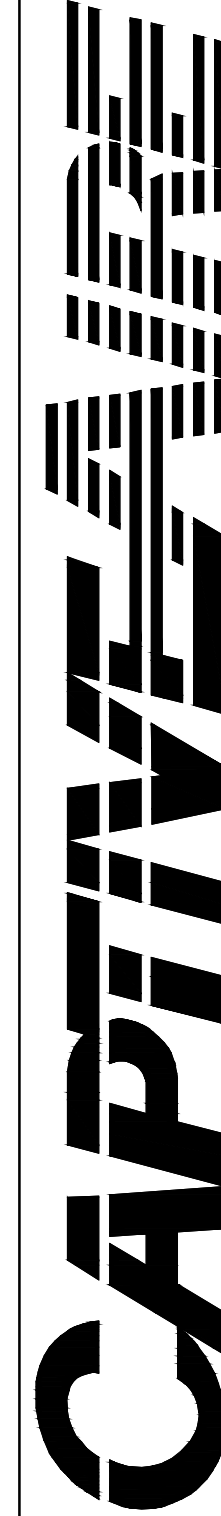


**BACKDRAFT DAMPER INSTALLATION**



**REVISIONS**

NO.	DESCRIPTION	DATE



www.captive.ca  
www.highwoods.com

4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg@0@captive.com

CHIPOTLE RICHMOND CENTRAL #4321  
RICHMOND, BC, V6V 1V8

DATE: 12/20/2021

DWG.#: 5211062

DRAWN BY: JMB-40

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

MASTER DRAWING

SHEET NO. 8

KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

Consultant:

**SNC-LAVALLIN**  
Engineering, Design and Project Management  
(EDPM) Canada  
5500 Steeles Ave. East  
Toronto, Ontario  
Canada M3B 2V1  
Tel: 416-445-9255  
SNC-LAVALLIN PROJECT # 2021-681535



COPYRIGHT 2019  
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
610 NEWPORT CENTER DR., SUITE 1300  
NEWPORT BEACH, CA, 92660  
TELEPHONE: 714.264.7392  
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
RICHMOND CENTRAL  
4720 MCCLELLAND RD., UNIT #1845  
RICHMOND, V6X 0M6  
B.C., CANADA

DESIGN BULLETIN: DB-06/2021

NO.	DATE	DESCRIPTION	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
Checked: JCY

Project No: 21074  
SCALE: N.T.S.

Contents:  
MECHANICAL  
KITCHEN EXHAUST  
DETAILS

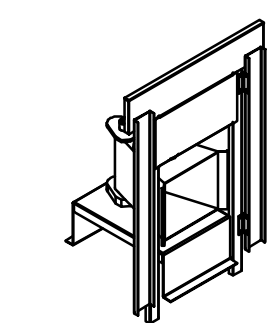
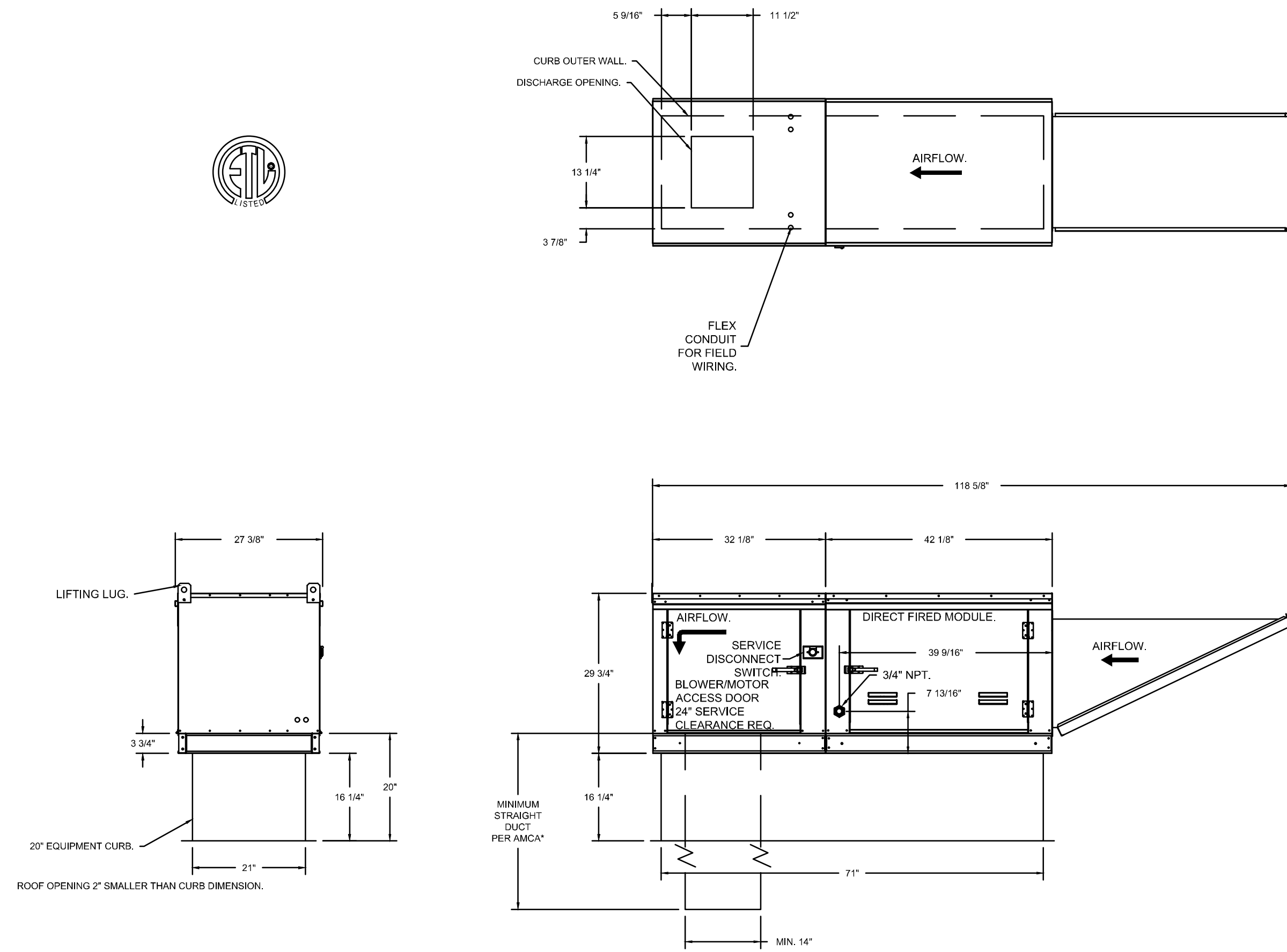
M311

- FAN #3 A1-Q-250-150 - HEATER (MMA-1)
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 - 0-30" 2" DIAMETER, 1/4" THREAD SIZE.
  5. GAS PRESSURE GAUGE - 0 TO 15 INCHES WG, 2.5" DIAMETER, 1/4" THREAD SIZE.
  6. MOTORIZED BACK DRAFT DAMPER 16" X 16" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, FIBERGLASS ACTUATOR INCLUDED.
  7. LOW FIRE START, ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
  8. FIELD WIRING EXHAUST CONTACTOR BEFORE AIRFLOW SWITCH, RATED 25 AMPS, STARTS UP TO (2) SINGLE PHASE MOTORS, 2HP MAX, 115V, 3PH MAX, 240V, STARTS ONE THREE PHASE MOTOR, 5HP MAX, 208V, 7.5HP MAX, 230V, 15HP MAX, 480V, OVERLOAD NOT INCLUDED.
  9. PILOT LOCATED UPSTREAM OF FIRST REDUNDANT SOLENOID VALVE OF SIZE 1-3 MAX GAS PRESSURE OF 14" WC.
  10. FREEZE STAT WITH 10" SENSOR, FACTORY SET AT 35°F AND 10 MINUTES.
  11. MOUNT LOAD REACTOR IN FAN.
  12. 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 MAKE SWITCH.
  13. UNIT MOUNTED VFD FOR USE WITH ECPW03.
  14. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
  15. 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 = 25°F, TEMP. RISE = 110°F.  
BTUs CALCULATED OFF ACTUAL AIR DENSITY.  
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 200038.  
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 223864.  
OUTPUT BTUs AT ALTITUDE OF 30 FT. = 20584.  
INPUT BTUs AT ALTITUDE OF 30 FT. = 223711.



**DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY**

**DESCRIPTION:**  
DIRECT FIRED BURNER SHALL HAVE PATENTED (US PATENT NO. 1,006,000) SELF-ADJUSTING PROFILE PLATES COINED TO ENHANCE FUEL AIR VELOCITY AND PREVENT DROOP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY BURNING BY PRODUCT LEVELS TO A MAXIMUM OF 30% OF CARBON MONOXIDE (CO) AND 0.50% OF NITROGEN DIOXIDE (NO<sub>2</sub>). DIRECT FIRED UNITS SHALL BE COMPLIANT WITH THE FOLLOWING DOWNSTREAM OF THE BURNER: THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

**GENERAL NOTES:**  
DIRECT FIRED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM WITHOUT THE NEED FOR ANY MOTOR OR ACTUATOR TO MECHANICALLY ADJUST THEM WITH THIS FEATURE. ALL OF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

**GENERAL CONSTRUCTION:**  
PROFILE PLATES SHALL BE FORMED FROM GAS 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	
DESCRIPTION	DATE

www.captiveair.com  
4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875-0420 FAX: (919) 875-0577 EMAIL: reg@0@captiveair.com

CHIPOTLE RICHMOND CENTRAL #4321  
RICHMOND, BC, V6V 1V8

DATE: 12/20/2021  
DWG.#: 5211062  
DRAWN BY: JMB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 9

KITCHEN EXHAUST SYSTEM VENDOR DRAWINGS HAVE BEEN INCLUDED FOR REFERENCE PURPOSES ONLY. EQUIPMENT AND COMPONENTS AS DETAILED ABOVE TO BE SUPPLIED DIRECTLY BY THE OWNER FOR INSTALLATION UNDER THIS CONTRACT

Consultant:

SNC-LAVALIN  
Engineering, Design and Project Management  
(EP/M) Canada  
350 Line 10  
Tomball, ON  
Canada M3B 2V1  
Tel. 416-445-9255  
SNC-LAVALIN PROJECT # 2021-681535

C. V. YEUNG  
#42058  
ENGINEER  
SNC-LAVALIN INC.  
PERMIT TO PRACTICE NO. 100942

COPYRIGHT 2019  
THIS DRAWING IS AN INSTRUMENT OF SERVICE AND AS SUCH REMAINS THE PROPERTY OF CHIPOTLE MEXICAN GRILL, INC. PERMISSION FOR USE OF THIS DOCUMENT IS LIMITED AND CAN BE EXTENDED ONLY BY WRITTEN AGREEMENT WITH CHIPOTLE MEXICAN GRILL, INC.



CHIPOTLE MEXICAN GRILL, INC.  
610 NEWPORT CENTER DR. SUITE 1300  
NEWPORT BEACH, CA, 92660  
TELEPHONE: 714.264.7392  
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 52-4321  
RICHMOND CENTRAL  
4720 MCCLELLAND RD., UNIT #1845  
RICHMOND, V6X 0M6  
B.C., CANADA

DESIGN BULLETIN: DB-06/2021

NO.	DATE	ISSUED FOR	BY
1	2021-12-08	ISSUED FOR COORDINATION	KL
2	2021-12-13	ISSUED FOR COORDINATION	KL
3	2021-12-15	ISSUED FOR LANDLORD REVIEW	KL
4	2022-08-18	ISSUED FOR PERMIT	KL

Drawn: NN/KL  
Checked: JCY  
Project No: 21074  
SCALE: N.T.S.

Contents:  
MECHANICAL  
KITCHEN EXHAUST  
DETAILS

M312



