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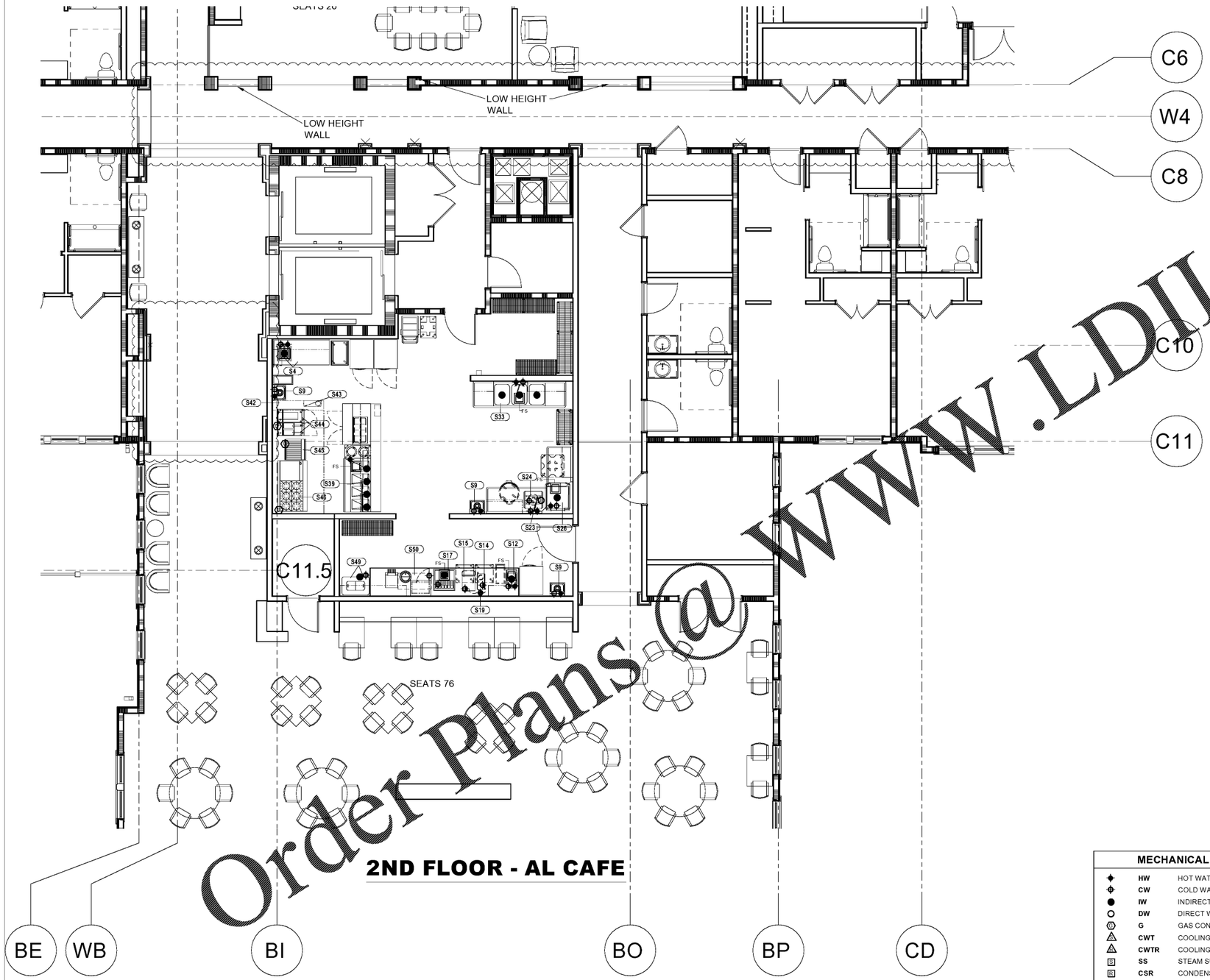

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MECHANICAL NOTES

WORK DESCRIBED IN THESE NOTES IS TO BE PERFORMED UNDER DIVISION 22 (PLUMBING) AND DIVISION 23 (HVAC)

1. THIS DRAWING LOCATES FINAL MECHANICAL POINTS OF CONNECTION FOR EACH FOODSERVICE EQUIPMENT ITEM. IT DOES NOT INDICATE UTILITY ROUGH-IN LOCATIONS. LOCATIONS, SIZES, AND HEIGHTS ABOVE THE FLOOR ARE APPROXIMATELY AS THEY WILL OCCUR ON EQUIPMENT ITEMS SHOWN. THE DESIGN OF SYSTEMS TO ACCOMMODATE THESE REQUIREMENTS IS TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND MEET WITH THE APPROVAL OF ALL GOVERNING AUTHORITIES.
2. UTILITIES SHOWN ARE FOR FOODSERVICE EQUIPMENT ITEMS ONLY. THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE MECHANICAL DRAWINGS FOR OTHER REQUIRED UTILITIES.
3. CONCEAL ALL UTILITIES (GAS, WATER AND STEAM LINES) IN WALLS AND STUB-OUT OF WALLS AS REQUIRED FOR CONNECTIONS. DO NOT STUB OUT OF THE FLOOR UNLESS INDICATED ON PLANS AND /OR RUN EXPOSED ON THE FACE OF THE WALL.
4. ALL EXPOSED PIPING AND FITTINGS TO BE STAINLESS STEEL OR CHROME PLATED BRASS IF POSSIBLE. IF USED, COPPER LINES AND PVC DRAIN PIPES SHOULD BE PAINTED SILVER GLOSS WHERE EXPOSED.
5. ALL HORIZONTAL PIPING RUNS EXTENDED TO AND CONNECTED TO EQUIPMENT ITEMS SHALL BE AT THE HIGHEST PRACTICAL ELEVATION, BUT NOT LESS THAN 6" (150MM) ABOVE THE FLOOR SO AS TO PROVIDE CLEARANCE FOR CLEANING.
6. PROVIDE WATER AND GREASE PROOF EXHAUST DUCTS FROM VENT CONNECTIONS OF DISHWASHING MACHINES, EXHAUST HOODS, AND VENTILATORS.
7. PROVIDE FIRE EXTINGUISHING SYSTEM IN ALL GREASE EXHAUST DUCTS AS REQUIRED.
8. CONCEAL EXHAUST VENTILATOR DRAIN LINES IN WALLS AND EXTEND TO BUILDING DRAINS AS REQUIRED.
9. FOR FIRE SUPPRESSION SYSTEM, A MECHANICAL GAS SHUT OFF VALVE OR ELECTRICAL SOLENOID SHUT OFF VALVE WITH MOMENTARY POWER INTERRUPTION DEVICE (BY POWERGUARD TECHNOLOGIES OR OTHERS) SHALL BE PROVIDED LOOSE BY KITCHEN EQUIPMENT CONTRACTOR FOR FIELD INSTALLATION IN SUPPLY LINE FOR GAS FUELED EQUIPMENT ITEMS.
10. PROVIDE GREASE TRAPS WITH TOP FLUSH WITH TOP OF FINISHED FLOOR UNLESS PROVIDED OUTSIDE FOODSERVICE AREA. GREASE TRAPS SHALL NOT BE LOCATED BENEATH ANY FOODSERVICE EQUIPMENT. GREASE TRAPS SIZED AND LOCATED BY MECHANICAL ENGINEERS.
11. PROVIDE EACH AIR-COOLED REFRIGERATION SYSTEM WITH A MINIMUM AIR SUPPLY OF 1,000 CFM (472 L/S) PER HORSE POWER AND ADEQUATE EXHAUST TO KEEP AREA ADJACENT TO COMPRESSOR AND/OR COMPRESSOR ROOM TEMPERATURE BELOW 90ºF (32ºC).
12. PROVIDE EACH WATER COOLED REFRIGERATION SYSTEM WITH A MINIMUM WATER SUPPLY OF 1.5 GPM (5.7 L/ MIN) PER HORSEPOWER AT 70ºF (21ºC) AND A MINIMUM AIR SUPPLY OF 250 CFM (118 L/S) PER HORSEPOWER WITH ADEQUATE EXHAUST TO MAINTAIN AREA ADJACENT TO COMPRESSOR AND/OR COMPRESSOR ROOM TEMPERATURE BELOW 90ºF (32ºC).
13. SEE SPECIAL CONDITIONS PLAN OF EACH AREA FOR SIZE AND LOCATION OF CONDUIT FOR BEVERAGE SYSTEM LINES. CONDUITS FOR BEVERAGE SYSTEMS SHALL BE WATERTIGHT AND HAVE 24" (600MM) MINIMUM RADIUS BENDS AND PULL BOXES EVERY 75' (22.5 METERS) OR EVERY 3 BENDS.
14. ALL INTERCONNECTED WATER LINE (IWL) RUNS ARE FOR DESIGN INTENT ONLY AND DO NOT REPRESENT ACTUAL FIELD RUNS. REFER TO UTILITY LOAD SCHEDULE SHEETS FOR INFORMATION ON POINT OF CONNECTIVITY.
15. PROVIDE LINES FOR COMPRESSED AIR AND INTERCONNECT EACH ITEM UTILIZING COMPRESSED AIR TO THE APPROPRIATE AIR COMPRESSOR.
16. GAS REGULATOR AND INCOMING GAS LINE TO BE INSTALLED AS TIGHT AS POSSIBLE TO WALL. SEE DETAIL C9.
17. PROVIDE AND INSTALL BACKFLOW PREVENTERS AS REQUIRED.
18. KITCHEN EQUIPMENT TRADE TO SUPPLY GAS REGULATORS (FOR COOKING EQUIPMENT ONLY), QUICK DISCONNECT HOSES, FAUCETS, OVERFLOWS AND LEVER DRAIN VALVES FOR PLUMBING TRADE TO COMPLETE AND INSTALL. ALL DIRECT/INDIRECT WASTE LINES, INTERCONNECTIONS AND FINAL CONNECTIONS BY PLUMBING TRADE.
19. REFRIGERATION LINES (VALVES, CONTROLS, INSULATION, ETC.) FOR WALK-INS AND REMOTE REFRIGERATED UNITS SUPPLIED AND INSTALLED BY KITCHEN EQUIPMENT TRADE. GC TO PROVIDE PENETRATIONS AND SLEEVES IN FLOOR, ROOF AND WALL FOR LINE RUNS AND SEAL OPENINGS. PLUMBING TRADE TO PROVIDE AND INSTALL INDIRECT DRAIN LINES AND TRAPS FROM EVAPORATOR COILS AND SEAL PENETRATIONS IN WALK-IN PANELS.
20. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE FIXED NOZZLE FROM WASTE DISPOSER FOR PLUMBING TRADE TO INSTALL AT END OF TROUGH AND INTERCONNECT TO SYSTEM.
21. PLUMBING TRADE/ GAS COMPANY TO PROVIDE AND INSTALL GAS REGULATOR TO DELIVER ADEQUATE GAS PRESSURE (5"-10"WC, 1/2#) IN MAIN GAS LINE SERVING COOKING LINE.
22. MAXIMUM WATER PRESSURE FOR COOLING WATER OR CHILLED WATER TO REFRIGERATOR OR ICE EQUIPMENT IS 100 PSI.

FIRE EXTINGUISHING SYSTEM NOTES

PM1	1" INCOMING SPRINKLER SYSTEM WATER LINE BY PLUMBING TRADE.
PM2	PIPING FROM CONTROL PANEL TO CONNECTION AT VENTILATORS BY KITCHEN EQUIPMENT TRADE.
PM3	IF REQUIRED BY LOCAL MECHANICAL JURISDICTIONS, PLUMBING TRADE TO PROVIDE BY-PASS AT GAS SOLENOID VALVE.

MECHANICAL SYMBOLS

	HW	HOT WATER
	CW	COLD WATER
	IW	INDIRECT WASTE
	DW	DIRECT WASTE
	G	GAS CONNECTION
	CWT	COOLING WATER TOWER
	CWTR	COOLING WATER TOWER RETURN
S	**SS**	STEAM SUPPLY
R	**CSR**	CONDENSATE STEAM RETURN
	FS/FFD	FLOOR SINK/FUNNEL FLOOR DRAIN
	AGD	AIR GAP DRAIN
	AFD	AREA FLOOR DRAIN
	EXH	EXHAUST DUCT
	SUP	SUPPLY DUCT
	IWL	INTERCONNECTED WATER LINE
	AIR	COMPRESSED AIR (LAUNDRY ONLY)

NOTE:
SEE SHEET FS-2UL FOR EQUIPMENT SCHEDULE & UTILITY LOAD SCHEDULE

1/4" = 1'-0"
0 1' 5' 10'

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