200 CFM □

200 CFM

200 CFM

200 CFM

KEYED NOTES

370 CFM

Ø10"

200 CFM

200 CFM

SEATING

- LOCATION OF DIGITAL THERMOSTAT CONTROL. INSTALL AND WIRE NEW 7-DAY PROGRAMMABLE THERMOSTAT. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PROVIDE LOCKABLE COVER.
- 2 EF-1 TO BE INTERLOCKED WITH TIME CLOCK.
- 3 CONNECT AIR DISTRIBUTION DUCT TO ROOF MOUNTED UNIT EQUIPMENT AS NECESSARY. PROVIDE TRANSITION IN CURB AS REQUIRED FOR UNIT CONNECTION.
- TEMPERATURE SENSOR SHALL BE INSTALLED IN RETURN AIR DUCTWORK AND WIRE BACK TO
- 6" EXHAUST AIR DUCT UP THROUGH ROOF. TERMINATE ON ROOF WITH GOOSENECK & BIRD
- Ø3"/Ø5" CONCENTRIC VENT LINE FOR COMBUSTION AIR INTAKE / EXHAUST FROM GAS FIRED EQUIPMENT TO ROOF TERMINATION KIT. ROUTE PIPING FROM RESPECTIVE UNIT TO LOCATION INDICATED ON ROOF PLAN. ROUTE PIPING WITH MINIMAL AMOUNT OF BENDS AND MINIMUM LENGTH AS REQUIRED BY RESPECTIVE UNIT MANUFACTURER'S REQUIREMENTS.

370 CFM

Ø10"

200 CFM

200 CFM

12"X12"

AREA

101

Ø18"

AREA

Ø10"

1" UNDER CUT TO BE PROVIDED FOR RETURN AIR TRANSFER.

THERMOSTATIC CONTROLS

- A. C403.2.4.1 THERMOSTATIC CONTROLS (MANDATORY)
- THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE. WHERE HUMIDIFICATION OR DEHUMIDIFICATION OR BOTH IS PROVIDED, AT LEAST ONE HUMIDITY CONTROL DEVICE SHALL BE PROVIDED FOR EACH HUMIDITY CONTROL SYSTEM.
- B. C403.2.4.1.2 DEADBAND (MANDATORY)
 - WHERE USED TO CONTROL BOTH HEATING AND COOLING. ZONE THERMOSTATIC CONTROLS SHALL BE CONFIGURED TO PROVIDE A TEMPERATURE RANGE OR DEADBAND OF NOT LESS THAN 5°F (2.8°C) WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM.
 - C. C403.2.4.1.3 SETPOINT OVERLAP RESTRICTION (MANDATORY) WHERE A ZONE HAS A SEPARATE HEATING AND A SEPARATE COOLING THERMOSTATIC CONTROL LOCATED WITHIN THE ZONE, A LIMIT SWITCH, MECHANICAL STOP OR DIRECT DIGITAL CONTROL SYSTEM WITH SOFTWARE PROGRAMMING SHALL BE CONFIGURED TO PREVENT THE HEATING SETPOINT FROM EXCEEDING THE COOLING SETPOINT AND TO MAINTAIN A DEADBAND IN ACCORDANCE WITH SECTION C403.4.1.2.
 - D. C403.2.4.2.1 THERMOSTATIC SETBACK. (MANDATORY) THERMOSTATIC CONTROLS SHALL HAVE THE CAPABILITIES TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURE DOWN TO 55 DEG. F (13 DEG. C) OR UP TO 85 DEG.F (29 DEG. C).

 - E. C403.2.4.2.2 AUTOMATIC SETBACK AND SHUTDOWN (MANDATORY) AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY
- F. C403.2.4.1.3 SETPOINT OVERLAP RESTRICTION
- WHERE A ZONE HAS A SEPARATE HEATING AND A SEPARATE COOLING THERMOSTATIC CONTROL LOCATED WITHIN THE ZONE, A LIMIT SWITCH, MECHANICAL STOP OR DIRECT DIGITAL CONTROL SYSTEM WITH SOFTWARE PROGRAMMING SHALL BE PROVIDED WITH THE CAPABILITY TO PREVENT THE HEATING SET POINT FROM EXCEEDING THE COOLING SET POINT AND TO MAINTAIN A DEADBAND IN ACCORDANCE WITH SECTION C403.2.4.1.2.
- G. C403.2.4.3 AUTOMATIC START

1025 CFM -14"X14"

740 CFM

12"X12"

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

14"X14"

BUILDING DEPARTMENT NOTES:

- ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF 2015 IBC AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.
- THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.
- TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE 2015 IMC:
- A. VENTILATION SYSTEM SERVING COMMERCIAL COOKING APPLIANCES MC 506
- THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
- A. DUCT CONSTRUCTION AND INSTALLATION- 2015 IMC 603 B. AIR INTAKES, EXHAUSTS AND RELIEF - 2015 IMC 401.5 C. GAS FIRED EQUIPMENT -2015 INTERNATIONAL FUEL GAS CODE
- MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
- VENTILATION FOR ALL AREA SHALL COMPLY WITH 2015 IMC 401.
- A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY 2015 IMC
- REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION.
- THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- 9. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
- 10. SMOKE DETECTOR SHALL MEET UL268A.

8'x10'

WALK-IN FREEZER

STORAGE AREA

380 CFM

Ø12"

Ø12"

70 CFM

- SUPPLY & RETURN AIR DUCT DROPPERS TO &

FROM RTU-1

SUPPLY & RETURN AIR JCT DROPPERS TO &

- VENTILATION SYSTEMS SHALL BE BALANCED TO MAINTAIN THE MINIMUM VENTILATION AIRFLOW RATE AS SHOWN IN VENTILATION REQUIREMENT TABLE. THIS SYSTEM SHALL BE BALANCED BY APPROVED METHOD - IMC 2015 403.3.1.5. CONTRACTOR SHALL SUBMIT THE AIR BALANCE REPORT TO THE INSPECTOR.
- 12. INDOOR DUCT AND PLENUM INSULATION SCHEDULE; (SECTION 230713) A. CONCEALED, RECTANGULAR, ROUND AND FLAT-OVAL, SUPPLY-RETURN,
- OUTDOOR-AND EXHAUST-AIR DUCT AND AIR PLENUM INSULATION: B. FLEXIBLE ELASTOMERIC, MINERAL-FIBER BLANKET, MINERAL-FIBER BOARD OR POLYOLEFIN WITH MINIMUM INSTALLED THERMAL RESISTANCE AS FOLLOWS:
- UNCONDITIONED SPACES WITHIN BUILDING: ITHIN BUILDING ENVELOPE ASSEMBLY:

- WATER

HEATER BY

PLUMBING

CONTRACTOR

MECHANICAL NOTES:

- ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.
- THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THE MECHANICAL DRAWINGS UNLESS OTHERWISE NOTED. ALL EQUIPMENT SHALL BE UL LISTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.
- ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING
- G. EACH UNIT GENERATING CONDENSATE SHALL BE PROVIDED WITH A CONDENSATE DRAIN WITH EXTERNAL. 4" DEEP P-TRAP, EXTEND DRAIN TO A ROOF MOUNTED
- SPLASH PAD OR AN ACCEPTABLE LOCATION REQUIRED BY CODE. DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSION.
- ALL METAL DUCT AND AIR DISTRIBUTION DEVICES SHALL BE INSULATED WITH R-6, 75 DENSITY FOIL-BACKED INSULATION WITH FIRE AND SMOKE RATING 25-50). ALL DUCTWORK SHALL BE FABRICATED, INSTALLED, SEALED, AND INSULATED PER THE LATEST ISSUE OF SMACNA LOW-VELOCITY DUCT MANUAL.
- UNLESS OTHERWISE NOTED, ALL SUPPLY TAKEOFFS SHALL HAVE A MANUAL VOLUME CONTROL DAMPER.
 ALL FLEX DUCT SHALL BE UL LISTED, R-6. FOIL-BACKED, CLASSIFIED AS A CLASS 1 AIR DUCT. MAXIMUM LENGTH IS TO BE 12'-O" PER DROP OR PER LOCAL CODE.
- THE CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT REFLECTED CEILING PLAN. THE CONTRACTOR IS TO MAKE ALL LOW-VOLTAGE WIRING CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING TEMPERATURE CONTROLS, ROOF TOP UNITS,
- SMOKE DETECTORS AND CONTACTOR PA AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF.
- AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR-MOVING EQUIPMENT UPON DETECTION OF SMOKE IN THE SUPPLY AIR DUCT SERVED BY SUCH EQUIPMENT. WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, THE SMOKE TECTORS REQUIRED TO BE SUPERVISED BY SUCH SYSTEMS AND SHALL ACTIVATE THE FIRE ALARM SYSTEM.
- THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR NUIPM<mark>ENT</mark> AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER. WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL
- CREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL, UPON COMPLETION OF PROJECT, PERFORM A COMPLETE TEST AND BALANCE OF ALL EQUIPMENT. PROVIDE A WRITTEN REPORT TO ARCHITECT, ALL CAPACITIES MUST BE SET TO WITHIN ±10% OF AMOUNTS INDICATED ON THE FLOOR PLAN AND SCHEDULES. LL EQUIPMENT AND APPLIANCES REGULATED BY THE INTERNATIONAL MECHANICAL CODE AND INTERNATIONAL FUEL GAS CODE SHALL BE LISTED, LABELED R SPECIFIC USE AND INSTALLED PER CODE AND MANUFACTURER INSTRUCTIONS AS REQUIRED BY 2015 INTERNATIONAL MECHANICAL CODE SECTION 301.7 & APTER 9 AND 2015 INTERNATIONAL FUEL GAS CODE SECTION 301.3 & CHAPTER 6.
- PROVIDE FIRE OR FIRE+ SMOKE DAMPER WHEREVER DUCTS ARE CROSSING FIRE/SMOKE RATED WALL/BARRIERS. COORDINATE WITH ARCHITECTURAL DRAWING FOR FIRE RATING OF THE WALLS.
- EXPOSED DUCT SHALL HAVE THE INTERNAL INSULATION AND CONCEALED DUCT SHALL HAVE EXTERNAL INSULATION.

IAUST FAN S	CHEDULE			

EXH	AUST FAN S	CHEDULE										
					FAN	S.P.		MOTOF	₹		INTERLOCKED	
SYMBOL	MANUF	MODEL	CFM	TYPE	RPM	(IN W.G.)	H.P.	VOLT	PH.	SERVICE	WITH	NOTES / ACCESSORIES
EF1	BROAN	676	110	CEILING	-	0.375	1/8	120	1	RESTROOM	TIME CLOCK	1-6

- NOTES / ACCESSORIES: I. ALUMINIZED BIRDSCREEN
- 2. SAFETY DISCONNECT SWITCH 3. GRAVITY BACKDRAFT DAMPER
- 4. AMCA SEAL & UL CERTIFIED
- 5. SPEED CONTROL SWITCH MOUNTED TO FAN CABINET FOR EXACT BALANCING
- 6. COORDINATE WITH MANUFACTURER FOR FINAL SELECTION

DIFF	USER AND F	REGISTER	SCHED	UL

UNIT ID	MANUFACTURER	MODEL	SIZE	DESCRIPTION	NOTES / ACCESSORIES
A	METALAIRE	5700-6 AL	24x24	ALUMINUM, 2-CONE SQUARE FACE OFFICE DIFFUSER WITH ROUND NECK. ALUMINUM, WITH ADJUSTABLE DISCHARGE AND RADIAL OPPOSED BLADE DAMPER, MODEL D3	1, 2, 3, 4, 5
В	METALAIRE	5700-6 AL	12x12	ALUMINUM, 2-CONE SQUARE FACE OFFICE DIFFUSER WITH ROUND NECK. ALUMINUM, WITH ADJUSTABLE DISCHARGE AND RADIAL OPPOSED BLADE DAMPER, MODEL D3	1, 2, 3, 4, 5
С	METALAIRE	RH-6	24x24	ALUMINUM RETURN GRILLE - 0.667" SPACING SET AT 45 DEGREE ANGLE, VOLUME CONTROL OPPOSED BLADE DAMPERS, MODEL OBDA	1, 2, 4
D	METALAIRE	4002PCF	10x6	ALUMINUM, SPIRAL MOUNT GRILLE. VERTICAL FRONT BLADES CURVED FLANGE AND AIR SCOOP, MODEL 4002PCF.	1, 2, 4
E	METALAIRE	RH-6	30x18	ALUMINUM RETURN GRILLE - 0.667" SPACING SET AT 45 DEGREE ANGLE, VOLUME CONTROL OPPOSED BLADE DAMPERS, MODEL OBDA	1, 2, 4

NOTES:

I. MAXIMUM NOISE CRITERION RATING <35 DBA

2. BAKED ENAMEL FINISH, COLOR TO BE SELECTED BY ARCHITECT 3. DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE INDICATED ON PLANS.

4. MOUNTING FRAME TYPE SHALL BE COORDINATE WITH CEILING / WALL CONSTRUCTION TYPE. 5. NECK SIZE SHALL BE AS SCHEDULED.

ROUND NECK SIZE SCHEDULE:
UP TO 100 CFM - 6" DIA.
101 TO 225 CFM - 8" DIA.
226 TO 375 CFM - 10" DIA.
376 TO 600 CFM - 12" DIA.
601 TO 900 CFM - 14" DIA.
901 TO 1100 CFM - 15" DIA.

ROOF TOP LINIT SCHEDULE

			/	AIR FLC	WC	COO	LING			HEATING	}	EL	ECTRIC.	AL				
SYMBOL	TONS	MODEL NUMBER	UNIT CFM	OA CFM	ESP (IN. WC)	TOTAL MBH		SA TEMP DB/WB °F	EFF. % TYPE	INPUT MBH	OUTPUT MBH	V/PH/H	MCA	МОСР	REF.	EER	SEER	WEIGHT Lbs
RTU1	5	TRANE YSK060A4S0L	2000	355	1.0	57	45.8	80/67	81 % Std.	80	64.8	460/3/60	15	20	R454B	12	14	910 Appro
RTU2	5	TRANE YSK060A4S0L	2000	235	1.0	57	45.8	80/67	81 % Std.	80	64.8	460/3/60	15	20	R454B	12	14	910 Appro

NOTES:

1. CONTRACTOR TO BALANCE OUTSIDE AIR DAMPER ON RTU TO MATCH VALUE MENTIONED IN EQUIPMENT SCHEDULE

2. 2" MERV 8 STANDARD FILTERS. 3. BOTTOM DISCHARGE & RETURN CONFIGURATION. ELECTRICAL CONNECTION TO BE SINGLE POINT AND TO BE THROUGH THE BOTTOM OF THE UNIT. 4. UNIT TO BE PROVIDED WITH LOW LEAKAGE VOLUME CONTROL DAMPER, NEMA 3R DISCONNECT, FAN WITH VFD, VIBRATION ISOLATION SPRING SUPPORTED

BLOWER, INTAKE HOOD, SCREEN INTAKE. 5. STAINLESS STEEL DRIP PAN.

6. PROVIDE FLEXIBLE CONNECTION AT DUCT CONNECTION TO UNIT.

7. PROVIDE 14" ROOF CURB AND CONTRACTOR SHALL FILED INSULATE THE CURB. 8. PROVIDE 8-WIRE, 24 VAC, AUTOMATIC CHANGEOVER, 2-STAGE HEAT / COOL, REMOTELY PROGRAMMABLE THERMOSTAT.

9. PROVIDE VIBRATION ISOLATOR FOR UNIT MOUNTING. 10. REMOTE SENSORS SHALL BE PROVIDED IN RETURN AIR PATH & WIRED BACK TO PROGRAMMABLE, 24 HOUR, 7 DAY, THERMOSTATS.

11. PROVIDE ALL COMPRESSORS WITH 5 YEAR WARRANTY. 12. PLUMBING CONTRACTOR TO COORDINATE EXACT GAS REQUIREMENTS OF RTU'S INSTALLED ON SITE.

13. 1" CONDENSATE DRAIN WITH DEEP VENTED TRAP DISCHARGE TO SPLASH BLOCK ON ROOF. 14. DRY-BULB ECONOMIZER WITH BAROMETRIC RELIEF/25% MANUAL OUTSIDE AIR DAMPER ASSEMBLY HOOD. PROVIDE FDD. 15. PROVIDE HOT GAS REHEAT WITH ASSOCIATED CONTROLS AND SENSORS FOR DEHUMIDIFICATION CONTROL.

AIR CUR	TAIN SCHEDU	ILE								
UNIT ID	MANUFACTURER	MODEL	TYPE	ELECTRICAL (V/HZ/PH)	AMPS	NUMBER OF MOTORS	HP	CFM	dBA	DIMENSIO (WXHX

| LPV236-1UA-OB | UNHEATED | 115/60/1 | 2.4

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

TESTING AND ADJUSTING NOTES

- HVAC SYSTEM AND COMPONENTS WILL BE TESTED, ADJUSTED AND BALANCED IN ACCORDANCE WITH ONE OF THE FOLLOWING STANDARDS:
- TABB'S CONSTRUCTION SPECIFICATION INSTITUDE MASTERFORMAT - NEBB'S STANDARDS FOR TESTING, ADJUSTMENT, AND BALANCING OF ENVIRONMENTAL SYSTEMS (7th. Ed.)
- AABC'S NATIONAL STARDARDS FOR TOTAL SYSTEM BALANCE (6th. Ed.) - ASHRAE'S STANDARD 111-2008



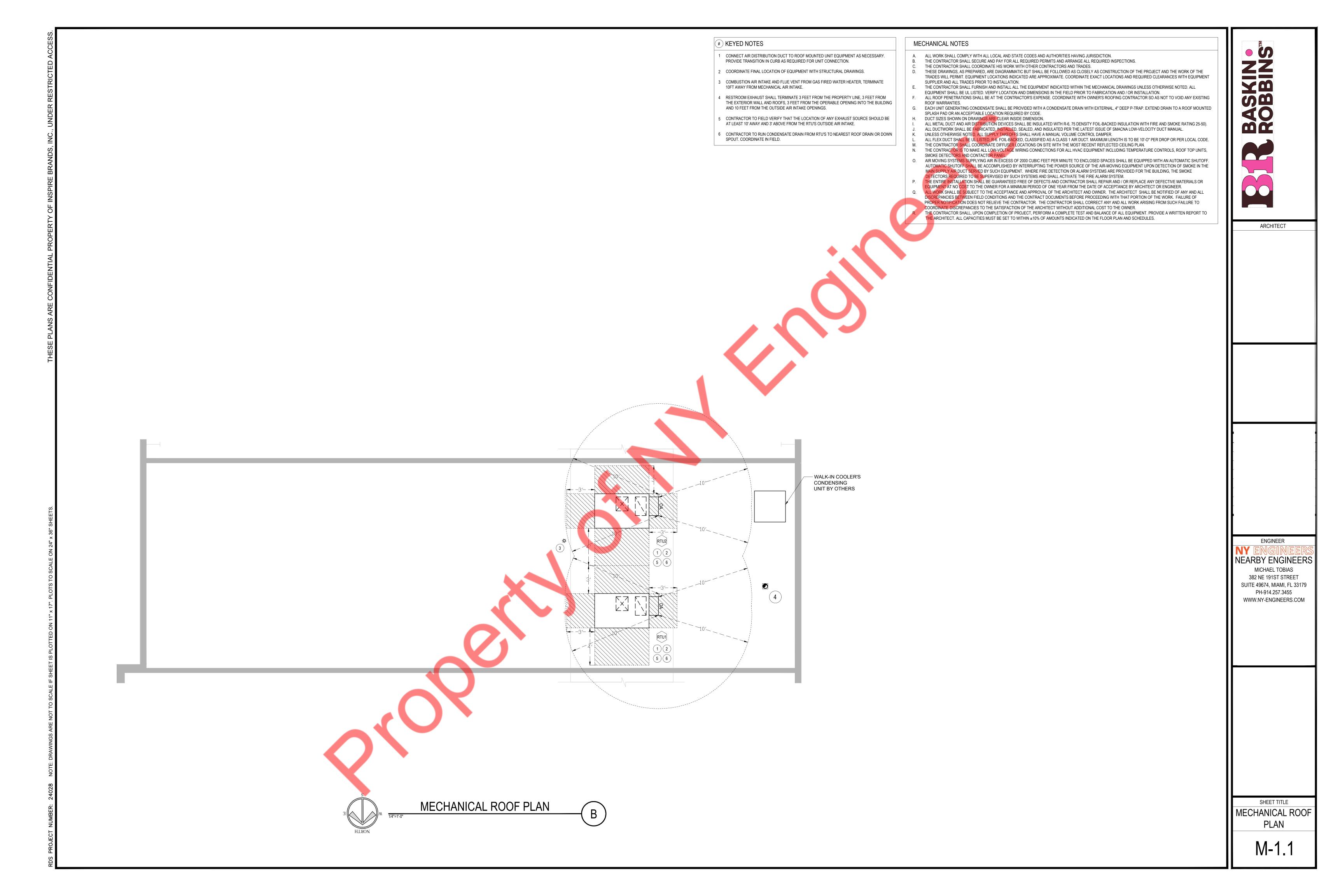


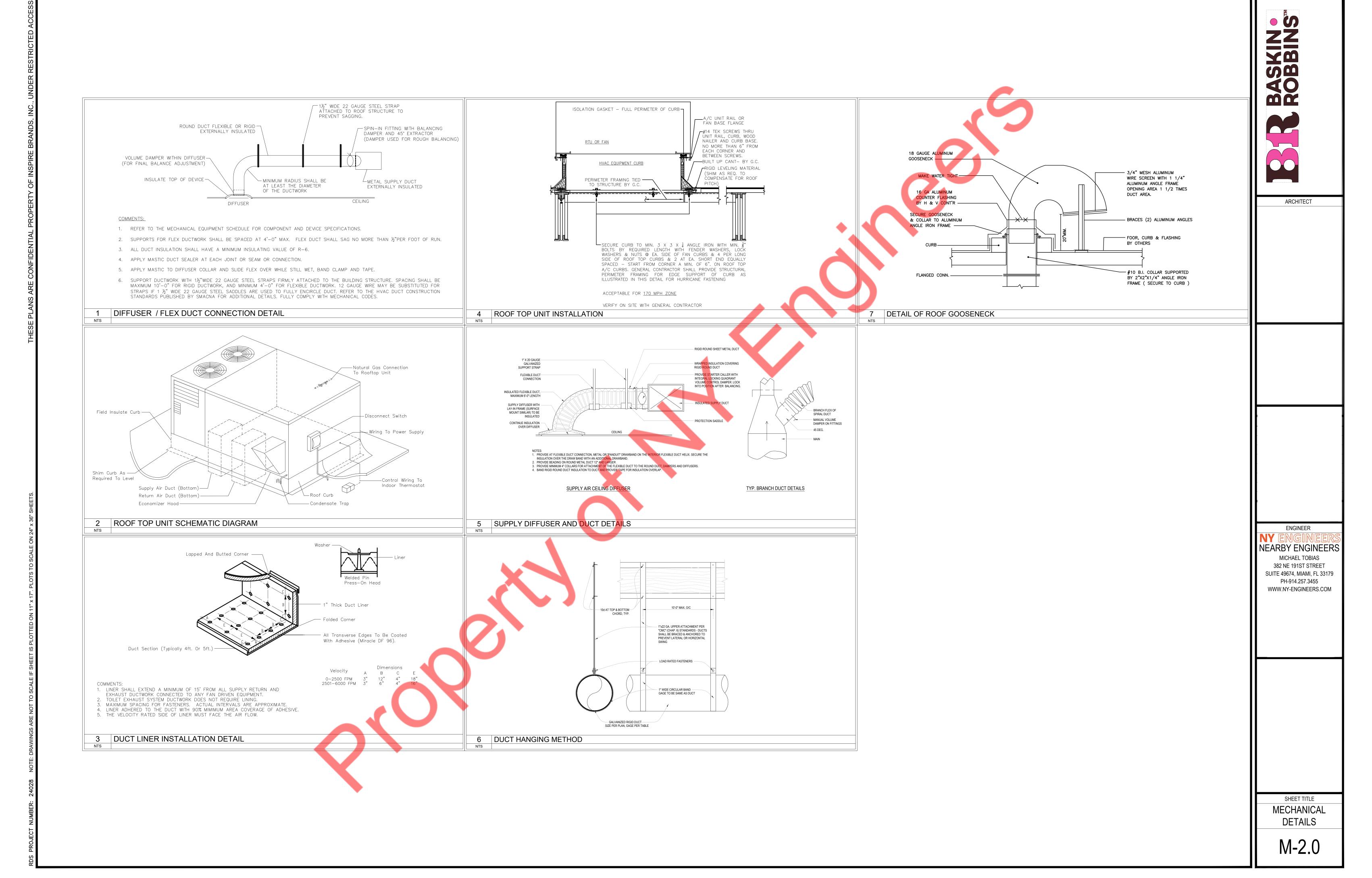
MECHANICAL FLOC

ENGINEER

NEARBY ENGINEERS

ARCHITECT





E: DRAWINGS ARE NOT TO SCALE IF SHEET IS PLOTTED ON 11" x 17".

ELECTRICAL POWER PLAN KEYED WORK NOTES

- REFER TO BASKIN ROBBINS STANDARDS FOR FURTHER INFORMATION REGARDING POS AND UNDER COUNTER ELECTRICAL SERVICE.
- J-BOX FOR AIR CURTAIN. G.C. SHALL PROVIDE DELIVERY DOOR AIR CURTAIN FAN. INSTALL AND WIRE FOR MICRO SWITCH IN DOOR FRAME FOR ON/OFF CONTROL OF DOOR AIR CURTAIN FAN. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOX WITH TOGGLE DISCONNECT SWITCH PER NEC FOR THE
- EXTERIOR BUILDING SIGNAGE. INSTALL THE JUNCTION BOX WITHIN THE BUILDING. THE SIGNS SHOULD BE SUPPLIED WITH WHIPS FOR FINAL CONNECTION TO THIS JUNCTION BOX. COORDINATE WITH THE SIGN VENDOR ON THE QUANTITY AND LOCATION OF THE REQUIRED JUNCTION BOXES. THE CONTRACTOR SHALL PROPERLY SIZE THE JUNCTION BOX BASED ON THE QUANTITY OF CONNECTIONS REQUIRED. VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS AND SIGN VENDOR PRIOR TO INSTALLING. ALL SIGNS SHALL BE CONTROLLED VIA TIME CLOCK/EXTERNAL MOUNTED
- MOUNT RECEPTACLES FOR DIPPER CABINETS IN KNEE WALL OF ADJACENT CABINET. PROVIDE MANUFACTURER APPROVED CORD AND PLUG FROM DIPPER CABINET TO RECEPTACLE. COORDINATE AS REQUIRED.
- DEDICATED RECEPTACLE AND DATA PORT FOR DIGITAL MENU BOARD MOUNTED AT 16" ABOVE SOFFIT. REFER TO BASKIN ROBBINS STANDARDS FOR FURTHER INFORMATION.
- PROVIDE JUNCTION BOXES AT TOILETS, SINKS AND OPTIONAL URINAL IF ALTERNATE "HANDS FREE" TOILET FIXTURES ARE BEING PROVIDED.
- [7] E.C. SHALL MAINTAIN CLEARANCE FOR ELECTRICAL PANELS PER NEC 110.26 (A) (1).
- 3 JB FOR HAND DRYER. E.C. TO COORDINATE JUNCTION BOX AND ITS POWER DETAILS AS PER ADA REQUIREMENT.
- 9 E.C. TO COORDINATE THE EXACT LOCATION AND ELECTRICAL REQUIREMENT OF MECHANICAL/PLUMBING EQUIPMENTS
- WITH MECHANICAL/PLUMBING CONTRACTOR. PROVIDE THE ELECTRICAL CONNECTION AS PER MECHANICAL/PLUMBING

 E.C TO INSTALL SHOW WINDOW RECEPTACLES AS PER NEC 210.62. COORDINATE THE EXACT LOCATION WITH
- NEW 100A (MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL 'A' FOR THE PROJECT SPACE. E.C. SHALL COORDINATE WITH LANDLORD/OWNER FOR THE EXACT LOCATION OF ELECTRICAL PANEL 'A' IN FIELD.
- NEW 100A (MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL 'B' FOR THE PROJECT SPACE. E.C. SHALL COORDINATE WITH LANDLORD/OWNER FOR THE EXACT LOCATION OF ELECTRICAL PANEL 'B' IN FIELD.
- NEW 200A (MCB), 480/277V, 3-PHASE, 4-WIRE ELECTRICAL PANEL 'MDP' FOR THE PROJECT SPACE. E.C. SHALL COORDINATE WITH LANDLORD/OWNER FOR THE EXACT LOCATION OF ELECTRICAL PANEL 'MDP' IN FIELD.
- 14 NEW 45KVA CEILING MOUNTED, STED DOWN 480/277V TO 208/120V TRANSFORMER FOR THE PROJECT SPACE. REFER TO ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION. E.C. SHALL COORDINATE WITH LANDLORD/OWNER FOR THE EXACT LOCATION IN FIELD. MAINTAIN CLEARANCE AS PER NEC 110.26.

ELECTRICAL PLAN GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.
- 3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.
- 4. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.
- 5. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.
- 6. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.
- 7. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.
- 8. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
- 9. COORDINATE ALL EQUIPMENT UTILITY INFORMATION SHOWN ON THIS SHEET WITH THE DUNKIN' BRANDS EQUIPMENT SCHEDULE AND EQUIPMENT MANUFACTURER'S CUT SHEETS.
- 10. ALL EXTERIOR LIGHTS TO BE TIMECLOCK CONTROLLED.
- 11. ALL 15A AND 20A, 120V KITCHEN RECEPTACLES SHALL BE GFCI TYPE OR PROTECTED BY GFCI BREAKER. ALL RECEPTACLES SHALL BE NEMA SIZED AND RATED FOR THE LOAD SERVED. ALL RECEPTACLES WITHIN 6 FT. OF SINKS OR WATER FAUCETS SHALL BE GFCI TYPE OR PROTECTED BY GFCI BREAKER.
- 12. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.
- 13. ALL FIXTURES TAGGED WITH "NL/EM" SHALL BE PROVIDED WITH AN EMERGENCY BALLAST TO SUPPORT ONE OR MORE LAMPS PER FIXTURE. COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR.
- 14. ALL EMERGENCY AND EXIT FIXTURES SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. PROVIDE ADDITIONAL FIXTURES AS NEEDED TO MEET THE CODE REQUIREMENTS PER LOCAL REQUIREMENTS.
- 15. PROVIDE WOOD BLOCKING BEHIND ALL EXTERIOR LIGHTING FIXTURES COORDINATE WITH GENERAL CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE LATEST KITCHEN PLANS AND EQUIPMENT CUTS SHEETS FOR PROPER EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS PRIOR TO STARTING WORK.

- 17. a. ELECTRICAL SUBJECT TO FIELD INSPECTIONS.
 b. ALL FOLIPMENT SHALL BE LISTED BY A NATIONAL
- b. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
- RHW, WITH IDEAL WINGNUTS AND SCOTCHLOCK CONNECTORS.

 19 NO 8 AND LARGER STRANDED CONDUCTOR COPPER TYPES THW THWN RHW

18. NO. 10 AND SMALLER, SOLID CONDUCTOR, COPPER TYPES, TW, THW, THWN, R, RH,

- 19. NO. 8 AND LARGER, STRANDED CONDUCTOR, COPPER TYPES, THW, THWN, RHW, WITH SOLDERLESS BOLTED PRESSURE CONNECTORS.
- MINIMUM SIZE, SHALL BE NO. 12 AWG, TYPE THWN, EXCEPT FOR CONTROL CIRCUITS.
 NO ARMORED CABLE (BX) SHALL BE USED FOR BRANCH CIRCUIT WORK. MC TYPE CABLE MAY BE USED FOR FINAL CONNECTIONS, BUT MUST BE LESS THAN 6'-0" IN LENGTH. CONDUCTOR INSULATION SHALL BE COLOR CODED AS STATED BELOW.
- 22. ALL WIRING SHALL BE COLOR CODED THROUGHOUT AS FOLLOWS:
- 120/208 VOLT SYSTEM PHASE A BLACK
- PHASE B RED
- PHASE C BLUE NEUTRAL - WHITE
- 23. FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDER.
- 24. ALL EQUIPMENT PANELS, BREAKERS, FUSES ARE FULLY RATED FOR THE MAXIMUM AVAILABLE FAULT VALUE. NO SERIES RATING ALLOWED.
- 25. ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(B) SHALL BE WITH GFCI PROTECTION.
- 26. THE RECEPTACLES MARKED AS "GFI" ON THE FLOOR PLAN INDICATES THAT THE RECEPTACLES SHALL BE GFI PROTECTED. E.C. SHALL PROVIDE GFI BREAKER IN PANEL IF GFI RECEPTACLES IN NOT READILY ACCESSIBLE OR FOR THE RECEPTACLES OTHER THAN 20A.
- 27. SEE ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF DEVICES.
- 28. COORDINATE EXACT LOCATION OF HVAC EQUIPMENTS ON ABOVE CEILING WITH MECHANICAL CONTRACTOR.
- 29. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE EQUIPMENT SUPPLIER/OWNER AND PROVIDE PLUGS / RECEPTACLE/DISCONNECTS AS REQUIRED. IF ANY EQUIPMENT NEEDS TO BE TERMINATED AS A HARD WIRE, IT IS THE CONTRACTOR RESPONSIBILITY TO PROVIDE THE CONNECTION WITH SUITABLE DISCONNECT / PLUG. BASE BID ACCORDINGLY.
- 30. E.C. SHALL VERIFY THE EXACT ELECTRICAL REQUIREMENT INCLUDING RECEPTACLE, PLUG/CIRCUIT BREAKER AND CABLES FOR ALL THE KITCHEN EQUIPMENTS IN FIELD AND ACCORDINGLY PROVIDE THE ELECTRICAL CONNECTION FOR ALL KITCHEN EQUIPMENTS AS REQUIRED.
- 31. FOR KITCHEN EQUIPMENT SCHEDULE REFER TO ARCHITECTURAL SHEET K-1.0 . E.C. SHALL VERIFY AND PROVIDE THE EXACT ELECTRICAL REQUIREMENT INCLUDING RECEPTACLE, PLUG, CORD, CIRCUIT BREAKER AND CABLES FOR ALL THE KITCHEN EQUIPMENTS IN COORDINATION WITH EQUIPMENT SUPPLIER/MANUFACTURER IN FIELD. BASE BID ACCORDINGLY.
- 32. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES

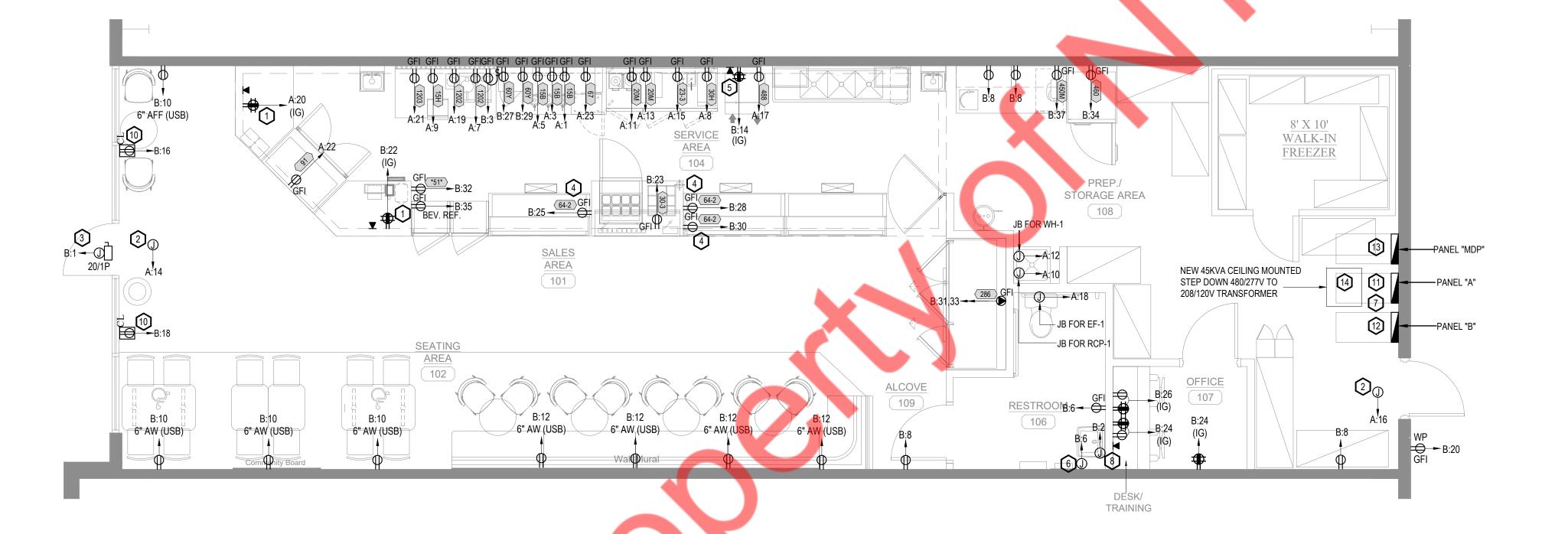
CIRCUIT PLAN NOTES

- 1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH KITCHEN EQUIPMENT SUPPLIER BEFORE ROUGH-IN.
- 2. COORDINATE EXACT NEMA CONFIGURATION WITH KITCHEN EQUIPMENT SUPPLIER CONTRACTOR PRIOR TO FINAL INSTALLATION.
- 3. ALL CONDUIT AND FLEXIBLE CONDUITS THAT ARE EXPOSED TO WATER, SPLASHING, OR WEATHER SHALL BE LIQUID
- 4. FOOD SERVICE EQUIPMENT HAVING MOTORS, ELECTRICAL HEATING UNITS, LIGHTING FIXTURES, RECEPTACLES AND THE LIKE SHALL BE INTERNALLY WIRED TO JUNCTION BOX MOUNTED ON THE EQUIPMENT BY THE ELECTRICAL CONTRACTOR. PROVIDE REMOTE SWITCHES FOR LIGHTING IN EXHAUST VENTILATORS TO JUNCTION BOX MOUNTED ON THE EQUIPMENT BY THE ELECTRICAL CONTRACTOR. PROVIDE REMOTE SWITCHES FOR LIGHTING IN EXHAUST VENTILATORS.
- 5. CIRCUIT NUMBERS ARE SHOWN FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTOR'S AS-BUILT DRAWINGS.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE BREAKER OR FUSES AND METER SOCKET AS REQUIRED TO LANDLORD'S ELECTRIC SERVICE EQUIPMENT LOCATION OR CONNECTION TO LOCAL UTILITY WITH ANY ASSOCIATED EQUIPMENT OR REQUIREMENTS. ALL SHUT DOWN SHALL BE COORDINATED WITH LANDLORD. ELECTRICAL CONTRACTOR TO PAY ANY
- BACK CHARGES IF ANY BY LOCAL POWER COMPANY FOR SERVICE CONNECTION.

 7. ELECTRICAL CONTRACTOR TO CONTACT LOCAL TELEPHONE COMPANY FOR TELEPHONE SERVICE TO SPACE.
- 8. BACK CHARGE TO BE BY OWNER. ALL ELECTRICAL PENETRATIONS IN THE WALK-IN COOLER/FREEZER SHALL BE SEALED PER GOVERNING CODES.

ALL SYMBO	OLS <u>DO NOT</u> NECESSARILY APPLY	MOUNTING HGT.	TO CENTERLINE U.N.O
SYMBOL	DESCRIPTION		HEIGHT
<u> </u>	WIRED JUNCTION BOX		18"
\Rightarrow	DUPLEX RECEPTACLE, 3 WIRE GRD	. TYPE, 20A	18"
₩P	DUPLEX RECEPTACLE, WEATHERP	ROOF,20A	18"
	GROUND FAULT PROTECTED DUPL	EX RECEPTACLE, 20A	-
\Rightarrow	QUADRAPLEX WALL RECEPTACLE,	20A	AS REQUIRED
	SPECIAL RECEPTACLE, VOLTAGE A BASED ON CONNECTED CIRCUIT	ND AMPERAGE	AS REQUIRED
	DUPLEX RECEPTACLE, MOUNT ABO COUNTER HEIGHT UNO	OVE	AS REQUIRED
$\Phi_{\!\scriptscriptstyle{ ext{CL}}}$	DUPLEX RECEPTACLE, 20A, 120V CEILING MOUNTED		-
\blacksquare	QUAD DATA OUTLET		18"
-	NON FUSED DISCONNECT SWITCH RATED TO ACCOMODATE EQUIPME	NT BEING SERVED	AS REQUIRED
NOTE: IN HA	NDICAPPED AREAS, THE RECEPTACI	LES AND TELEPHONE (OUTLETS SHALL

BE MOUNTED AT 24" A.F.F.; THE TOGGLE SWITCHES, THERMOSTATS AND MANUAL MOTOR STARTERS SHALL BE MOUNTED AT 42" A.F.F.



ELECTRICAL POWER PLAN

A

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ELECTRICAL POWER PLAN

E-1.0

ELECTRICAL POWER PLAN KEYED WORK NOTES E.C. TO COORDINATE THE EXACT LOCATION AND ELECTRICAL REQUIREMENT OF MECHANICAL/PLUMBING EQUIPMENTS WITH MECHANICAL/PLUMBING CONTRACTOR AND MANUFACTURER. PROVIDE THE ELECTRICAL CONNECTION AS PER MECHANICAL/PLUMBING EQUIPMENTS REQUIREMENT IN FIELD. SINGLE POINT CONNECTION FOR WALK-IN FREEZER. THE CONTRACTOR SHALL CONFIRM ELECTRICAL REQUIREMENTS AND MEANS OF DISCONNECT OF THE ROOF MOUNTED CONDENSING UNIT AND EVAPORATOR UNIT LOCATED WITHIN THE BOXES. ALSO, PROVIDE ELECTRICAL CONNECTION OF DOOR HEATER, CONDENSATE DRAIN AND HEAT TRACE POWER DEVICE LEGEND DUPLEX RECEPTACLE, 20A, 120V ☐ DISCONNECT SWITCH - FUSED OR UNFUSED ARCHITECT — WALK-IN FREEZER'S CONDENSING UNIT BY OTHERS 20/3P/3R 1 2 NEARBY ENGINEERS ELECTRICAL ROOF POWER PLAN

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ELECTRICAL ROOF **POWER PLAN**

E-1.1

LIGHT	TING FIX	TURE SCHEDULE							
SYMBOL	NOTATION	DESCRIPTION	LAMP	MANUF. & CATALOG NO.	SYMBOL	NOTATION	DESCRIPTION	LAMP	MANUF. & CATALOG NO.
0	LT-01	6" DIA RECESSED DOWNLIGHT W/ LED LAMP	12W LED	CREE CR6T-1600L-35K-12-E26GU24	+	LT-07	SUSPENDED "GLOBE" LIGHT CLUSTERS (SIZE AND MOUNTING HEIGHTS VARY; MIN. 7'-3" A.F.F.	9W LED	VILLA LIGHTING NV-HGRA540
Ø	LT-02	10W TRACK HEAD ON BLACK MONO POINT BASE CANOPY	10W LED	JUNO R600L-35-K-F-BLL		LT-09	RESTROOM WALL SCONCE	32W LED	FJORD 62482LEDD-CH/OPL
0	LT-03	PENDANT CYLINDER (BLACK) W/ LED LAMP AT 11'-6" TO BTM OF FIXTURE	12W LED	NORA NYLD-6C9130DD-B4		EX1	LED EMERGENCY EXIT	2W LED	SUR APC7R
	LT-04	LED 2X2 RECESSED FIXTURE W/ SHATTERPROOF LENS	35W LED	LSI #ELFP-24-LED-35-U-E		EBU-W	THERMOPLASTIC LED EMERGENCY LIGHT	4W LED	EXITRONIX EQMS
	LT-05	4'/8' BLACK TRACK AND LIVE END FEED		JUNO T4BL/T38BL					

LIGHTING FIXTURE NOTES :

- 1. ELECTRICAL CONTRACTOR SHALL ENSURE THAT LIGHT BULBS SHALL BE SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT IN AREAS WHERE THERE IS EXPOSED FOOD, CLEAN EQUIPMENT, UTENSILS, AND LINENS, OR UNWRAPPED SINGLE-SERVICE AND SINGLE-USE ARTICLES AS PER HEALTH DEPARTMENT AND LOCAL AHJ REQUIREMENTS.
- 2. COORDINATE WITH ARCHITECT/OWNER FOR FINAL SELECTION OF LIGHT FIXTURES IN FIELD.

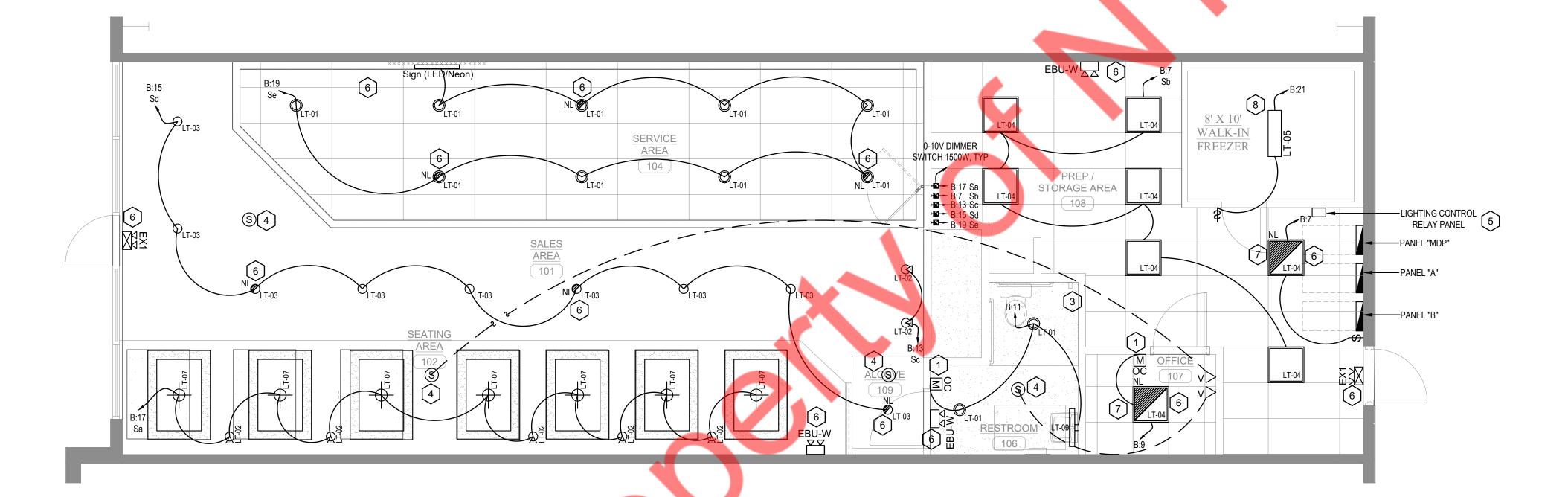
ELECTRICAL LIGHTING PLAN KEYED WORK NOTES

- (1) INSTALL SWITCH HEIGHT MOUNTED OCCUPANCY SENSOR IN THE RESTROOMS.
- DIMMER SWITCH BANK. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
- 1 INTERLOCK TOILET ROOM LIGHT WITH EXHAUST FAN.
- SPEAKER AND SOUND SYSTEM TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. LOCATE VOLUME CONTROL NEAR THE OFFICE DESK. SEE ARCHITECTURAL CEILING PLAN FOR EXACT LOCATION AND CONTROL.
- PROVIDE CONTROL RELAY PANEL AS SPECIFIED BY THE LIGHTING VENDOR. PROVIDE AND INSTALL DIGITAL/DIMMER SWITCH(ES) AS REQUIRED. LOCATION OF SWITCHES BY ARCHITECT OR OWNER.
- WIRE ALL EMERGENCY, EXIT LIGHT AND NIGHT LAMP TO THE NEAREST CIRCUIT AHEAD OF ALL CONTROLS & SWITCHING FOR CONTINUOUS OPERATION.
- COMPLIED AS PER NEC 110.26(D).
- 8 LIGHT FIXTURE AND ITS CONTROL SHALL BE PROVIDED BY WALK-IN-FREEZER MANUFACTURER / SUPPLIER. E.E. SHALL PROVIDE ELECTRICAL CONNECTION TO IT.

MUSIC SYSTEM NOTES

- . MUSIC SYSTEM IS REQUIRED IN ALL NEW AND REMODEL STORES. MUSIC SYSTEM TO USE DBI APPROVED PROGRAMMING
- 2. ALL CEILING SPEAKERS TO BE FLUSH MOUNTED WHITE. ALL EXTERIOR SPEAKERS TO BE BLACK, WITH EXTERIOR GRADE CONSTRUCTION.
- 3. ONE SPEAKER IN EACH BATHROOM TO BE FLUSH MOUNTED WHITE.
- 4. A MINIMUM OF TWO SPEAKERS IN THE SEATING AREA (NO SPEAKERS IN THE SERVICE AREA).
- A MINIMUM OF TWO SPEAKERS AT EXTERIOR SEATING AREAS WHERE APPLICABLE.
- 6. SPEAKER AT EXTERIOR OF BUILDING ADJACENT TO ENTRY.
- 7. PROVIDE AND INSTALL SEPARATE VOLUME CONTROLS FOR EACH AREA (RESTROOMS, SEATING AREA, EXTERIOR)
- 8. HARDWARE TO BE INSTALLED IN THE OFFICE. FIELD VERIFY AND COORDINATE WITH FRANCHISE FOR THE EXACT LOCATION OF THE UNIT AND VOLUME CONTROLS.

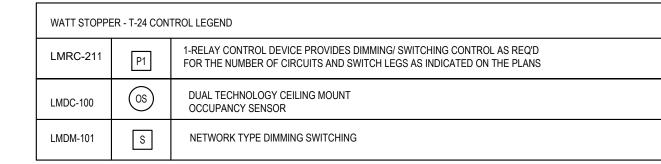
LEGEND:		
8	MANUAL SWITCH	
	EXHAUST FAN	
OS M	OCCUPANCY SENSOR WALL MOUNTED	
S	SPEAKER	

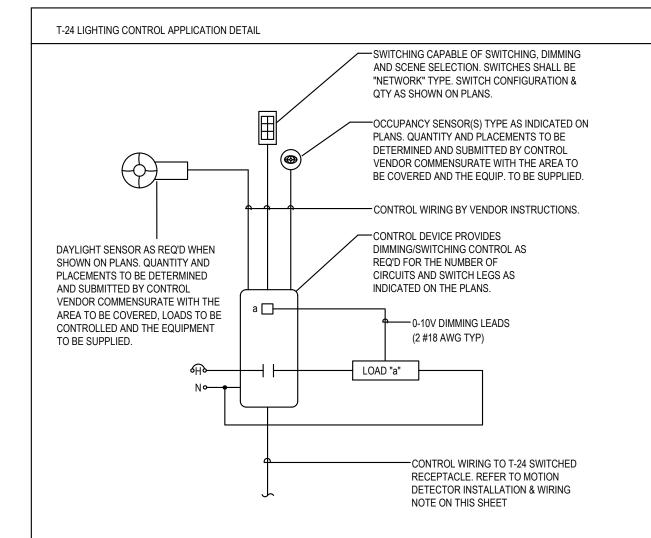


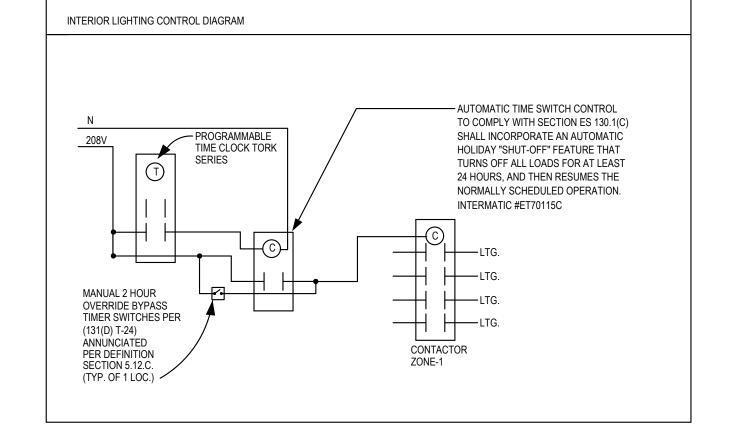


LIGHTING PLAN NOTES

- 1. REFER TO ARCHITECTURAL DRAWING FOR LIGHTING FIXTURE SCHEDULE.
- 2. LIGHT FIXTURES SHALL BE INSTALLED AT MOUNTING HEIGHTS AND LOCATIONS AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, PART PLANS AND DETAILS. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION.
- 3. CIRCUIT NUMBERS ARE SHOWN FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTOR'S AS-BUILT DRAWINGS
- 4. ALL LIGHTING SWITCHES SHALL BE LABELED TO INDICATE ASSOCIATED AREAS OF CONTROL.
- 5. EMERGENCY LIGHTING SHALL BE PROVIDED AS REQUIRED BY ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
- 6. EXIT SIGNS, FIXTURES DESIGNATED AS NIGHT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUITS SERVING THE AREA. THE ASSOCIATED CIRCUIT BREAKER SHALL BE PROVIDED WITH A HANDLE LOCK.
- 7. FURNISH, ASSEMBLE, HANG AND CONNECT ALL LIGHTING FIXTURES. LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS.
- 8. ALL FIXTURES SHALL BE FURNISHED COMPLETE WITH SOCKETS, WIRING TRIMS, HANGERS, FRAMES, LAMPS, BALLASTS, ETC.
- 9. ALL LAMPS AND BALLASTS SHALL BE OF THE ENERGY SAVING TYPE.
- 10.PROVIDE ALL FIXTURES COMPLETE WITH LAMPS. REFER TO NATIONAL ACCOUNT SOURCE INFO FOR LAMP SPECS. & VENDOR INFORMATION.
- 11. ALL INCANDESCENT LAMPS SHALL BE RATED 130 VOLTS.
- 12. ALL BALLASTS SHALL BE HIGH POWER FACTOR. FLUORESCENT BALLASTS FOR T8 LAMPS TO BE OSRAM/SYLVANIA OR MAGNATEK FULL-OUTPUT ELECTRONIC, EXCEPT OUTDOOR FIXTURES TO BE ZERO-DEGREE MAGNETIC BALLASTS.
- 13.PROVIDE HOLD DOWN CLIPS FOR EACH CORNER OF FLUORESCENT GRID TROFFERS.
- 14.PROVIDE ALL REQUIRED MOUNTING OR HANGING HARDWARE.
- 15. COORDINATE AND VERIFY ALL FIXTURE INFORMATION, TYPES AND FINAL LOCATIONS WITH THE REFLECTED CEILING PLAN.
- 16.LAMPS SHALL BE AS MANUFACTURED BY SYLVANIA, WESTINGHOUSE, GENERAL ELECTRIC, OR APPROVED EQUAL.
- 17. THE WATTAGE OF LUMINAIRES WITH PERMANENTLY INSTALLED OR REMOTELY INSTALLED BALLASTS OR DRIVERS SHALL BE THE INOUT WATTAGE RATING OF THE LAMP/BALLAST OR
- 18. THE WATTAGE OF LIGHT EMITTING DIODE (LED) LUMINAIRES SHALL BE THE MAXIMUM RATED INPUT WATTAGE OF THE SYSTEM AS INDICATED ON THE FACTORY INSTALLED LABEL.
- 19. ALL FIXTURES TAGGED WITH "NL/EM" SHALL BE PROVIDED WITH AN EMERGENCY BALLAST TO SUPPORT ONE OR MORE LAMPS PER FIXTURE. COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR
- 20. ALL EMERGENCY AND EXIT FIXTURES SHALL BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING . PROVIDE ADDITIONAL FIXTURES AS NEEDED TO MEET THE CODE REQUIREMENTS PER LOCAL REQUIREMENTS.
- 21. PROVIDE WOOD BLOCKING BEHIND ALL EXTERIOR LIGHTING FIXTURES. COORDINATE WITH GENERAL CONTRACTOR.







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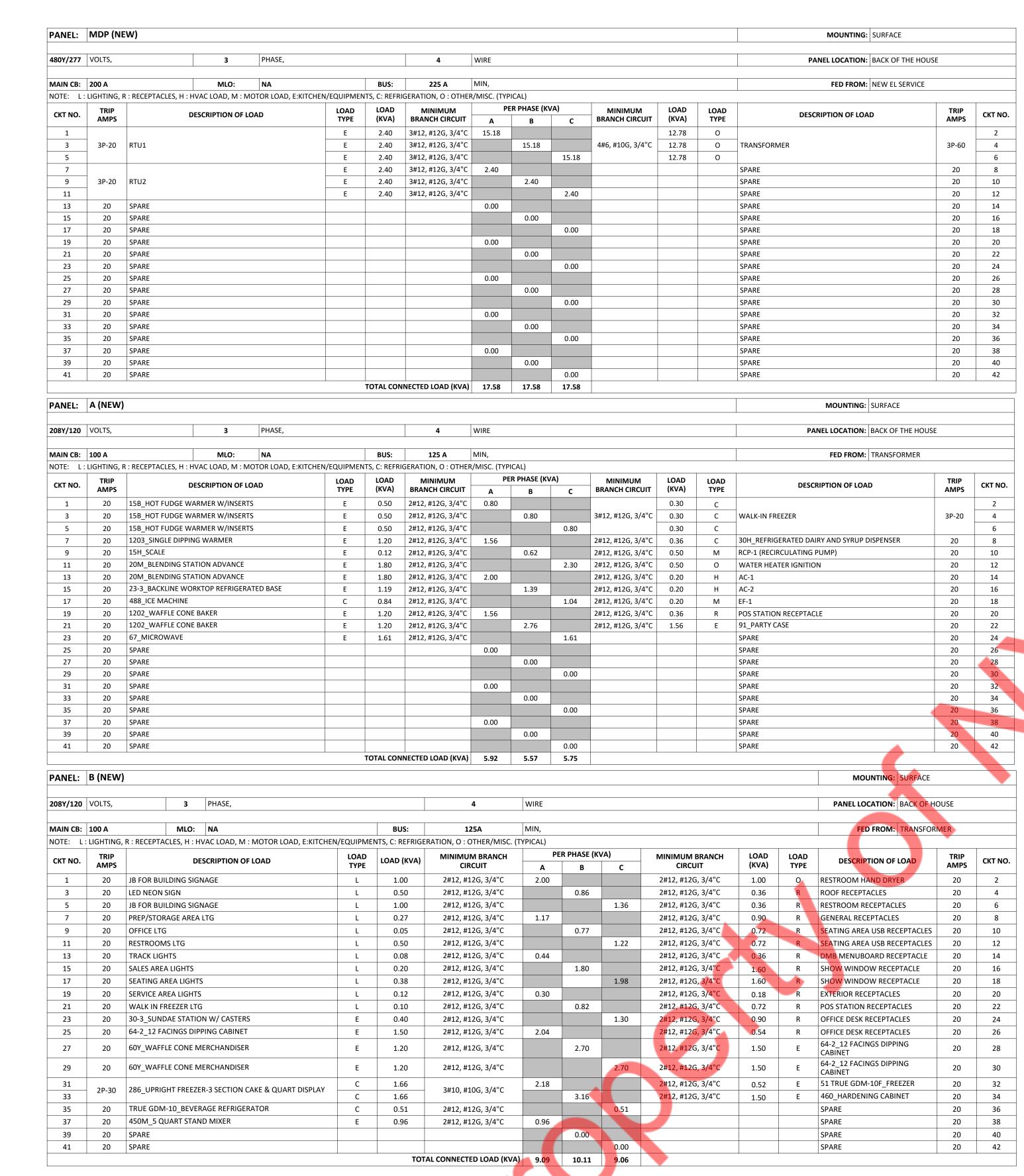
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ELECTRICAL

E-2.0

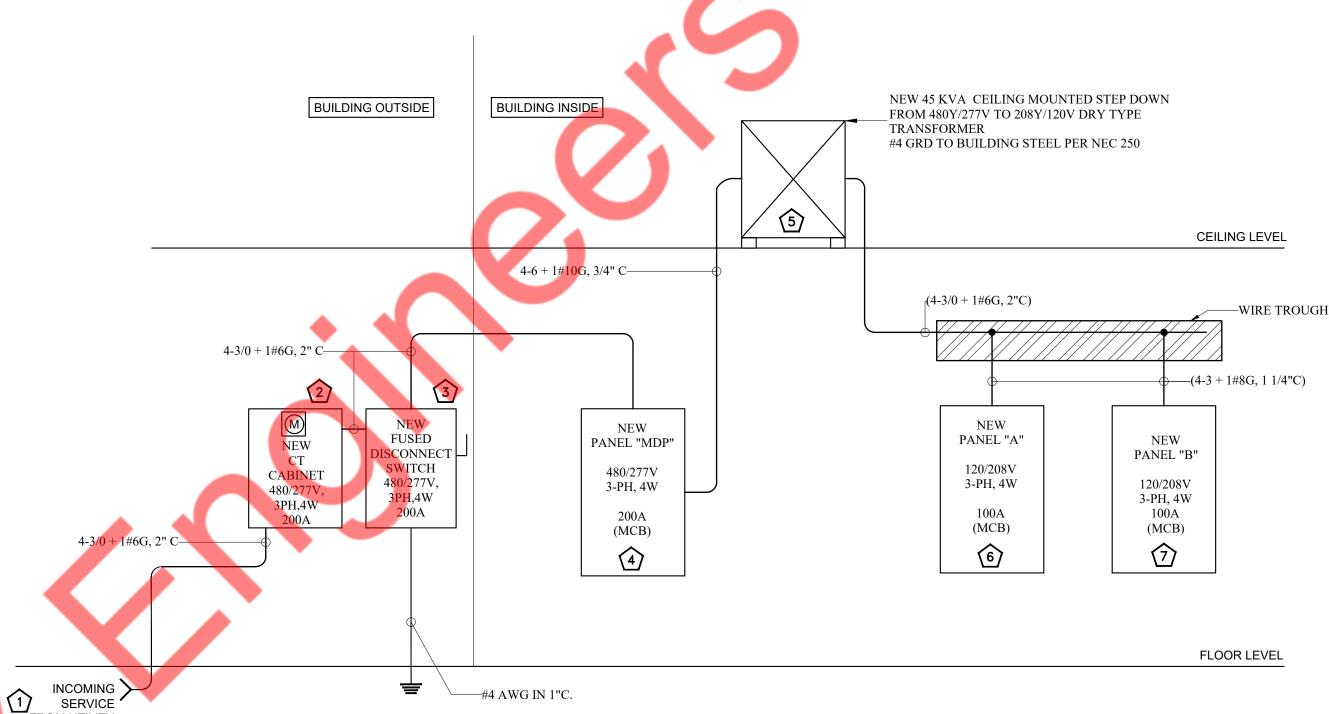
LIGHTING PLAN



ELECTRICA	L LOAD SUMMARY					ELECTRICA	L LOAD SUMMARY			
VOLTAGE	: 208/120V, 3-PH, 4W					VOLTAGE				
SR. NO.	LOAD TYPE	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)		SR. NO.	LOAD TYPE	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
1	LIGHTING	4.19	125%	5.24		1	LIGHTING	0.00	125%	0.00
2	RECEPTACLES	9.32	100%	9.32	7	2	RECEPTACLES	0.00	100%	0.00
3	HVAC	0.40	100%	0.4		3	HVAC	0.00	100%	0.00
4	MOTOR	0.70	100%	0.7		4	KITCHEN	0.00	100%	0.00
5	KITCHEN/EQUIPMENT	23.46	65%	15.2516		5	MOTOR	14.40	65%	9.36
5	REFRIGERATION	5.94	100%	5.938		6	REFRIGERATOR	0.00	100%	0.00
7	OTHER/MISC.	1.50	100%	1.5		7	OTHER/MISC.	38.35	100%	38.35
	TOTAL LOAD (KVA)	45.51		38.35			TOTAL LOAD (KVA)	52.75		47.71

ELECTRICAL PANEL SCHEDULE





ELECTRICAL RISER DIAGRAM

RISER DIAGRAM GENERAL NOTES

FROM UTILITY

ABOVE RISER DIAGRAM IS FOR REFERENCE PURPOSES ONLY. E.C. SHALL VERIFY EXACT POWER DISTRIBUTION IN FIELD AND INFORM ENGINEER ON RECORD FOR AN

- 2. E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION WITH UTILITY COMPANY/OWNER.
- 3. ELECTRICAL CONTRACTOR TO COORDINATE FAULT CURRENT (Isc) RATING WITH UTILITY COMPANY AND AHJ PRIOR TO COMMENCING ANY WORK.
- . E.C. SHALL PROVIDE ALL REQUIRED ACCESSORIES/WIRES AND DEVICES REQUIRED FOR THE PROPER DISTRIBUTION PER LOCAL AHJ REQUIREMENTS. BASE BID ACCORDINGLY.
- 5. E.C. SHALL ENSURE THAT VOLTAGE DROP SHALL BE WITHIN THE LIMIT OF PERMISSIBLE VALUES PER LOCAL AHJ AND NEC REQUIREMENTS..

RISER DIAGRAM KEYED WORK NOTES

- NEW 200A, 480/277V, 3-PHASE, 4-WIRE UNDERGROUND ELECTRICAL SERVICE FOR THE PROJECT SPACE. E.C. SHALL VERIFY THE EXACT LOCATION/DETAILS OF SERVICE EQUIPMENTS WITH LANDLORD/OWNER/UTILITY COMPANY IN FIELD.
- NEW 200A, 480/277V, 3-PHASE, 4-WIRE ELECTRICAL METER & CT CABINET FOR THE PROJECT SPACE. E.C. SHALL VERIFY THE EXACT LOCATION OF ELECTRICAL METER & CT CABINET WITH LANDLORD/OWNER/UTILITY COMPANY IN FIELD. BASE BID ACCORDINGLY.
- NEW 200A, 480/277V, 3-PHASE, 4-WIRE FUSED DISCONNECT SWITCH FOR THE PROJECT SPACE. E.C. SHALL VERIFY THE EXACT LOCATION OF ELECTRICAL SERVICE ENTRANCE MANUAL TRANSFER SWITCH WITH LANDLORD/OWNER/UTILITY COMPANY IN FIELD. BASE BID ACCORDINGLY.
- NEW 200A (MCB), 480/277V, 3-PHASE 4-WIRE ELECTRICAL PANEL "MDP FOR THE PROJECT SPACE. E.C. SHALL COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION OF ELECTRICAL PANEL "A" IN FIELD.
- NEW CEILING MOUNTED 45 KVA, 480/277V TO 208/120V STEP DOWN DRY TYPE TRANSFORMER FOR THE PROJECT SPACE. E.C. SHALL COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION OF TRANSFORMER IN FIELD.
- NEW 100A (MCB), 120/208V, 3-PHASE 4-WIRE ELECTRICAL PANEL "A" FOR THE PROJECT SPACE. E.C. SHALL COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION OF ELECTRICAL PANEL "A" IN FIELD.
- NEW 100A (MCB), 120/208V, 3-PHASE 4-WIRE ELECTRICAL PANEL "B" FOR THE PROJECT SPACE. E.C. SHALL COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION OF ELECTRICAL PANEL "B" IN FIELD.

ELECTRICAL PANEL SCHEDULE NOTES

- ALL CIRCUITING SHOWN IS FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY THE ELECTRICAL REQUIREMENT FOR CIRCUITING IN FIELD AS PER THE FINAL ELECTRICAL LOAD AND INFORM ENGINEER FOR ANY DISCREPANCIES.
- E.C. SHALL VERIFY THE BREAKER AND CABLE RATING WITH EQUIPMENT SUPPLIER/OWNER AND ACCORDINGLY UPDATE THE BREAKER RATING CABLE SIZE IN
- 3. E.C. SHALL COORDINATE WITH WALK-IN SUPPLIER FOR THE BREAKER AND CABLE REQUIREMENT AND ACCORDINGLY UPDATE IF REQUIRED IN FIELD.
- ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS. AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND. 100 AMPERES OR LESS. INSTALLED IN THE LOCATIONS SPECIFIED IN 210.8(8) SHALL BE WITH GFCI PROTECTION.
- REFER TO ARCHITECTURAL SHEET K-1.0 FOR KITCHEN EQUIPMENT SCHEDULE. E.C. SHALL VERIFY THE BREAKER. CABLE. ELECTRICAL LOAD AND CONDUIT REQUIREMENT/SIZES/RATINGS FOR ALL KITCHEN EQUIPMENTS/MECHANICAL EQUIPMENTS WITH EQUIPMENT SUPPLIER/MANUFACTURER AND PROVIDE THE ELECTRICAL CONNECTION ACCORDINGLY. BASE BID ACCORDINGLY.

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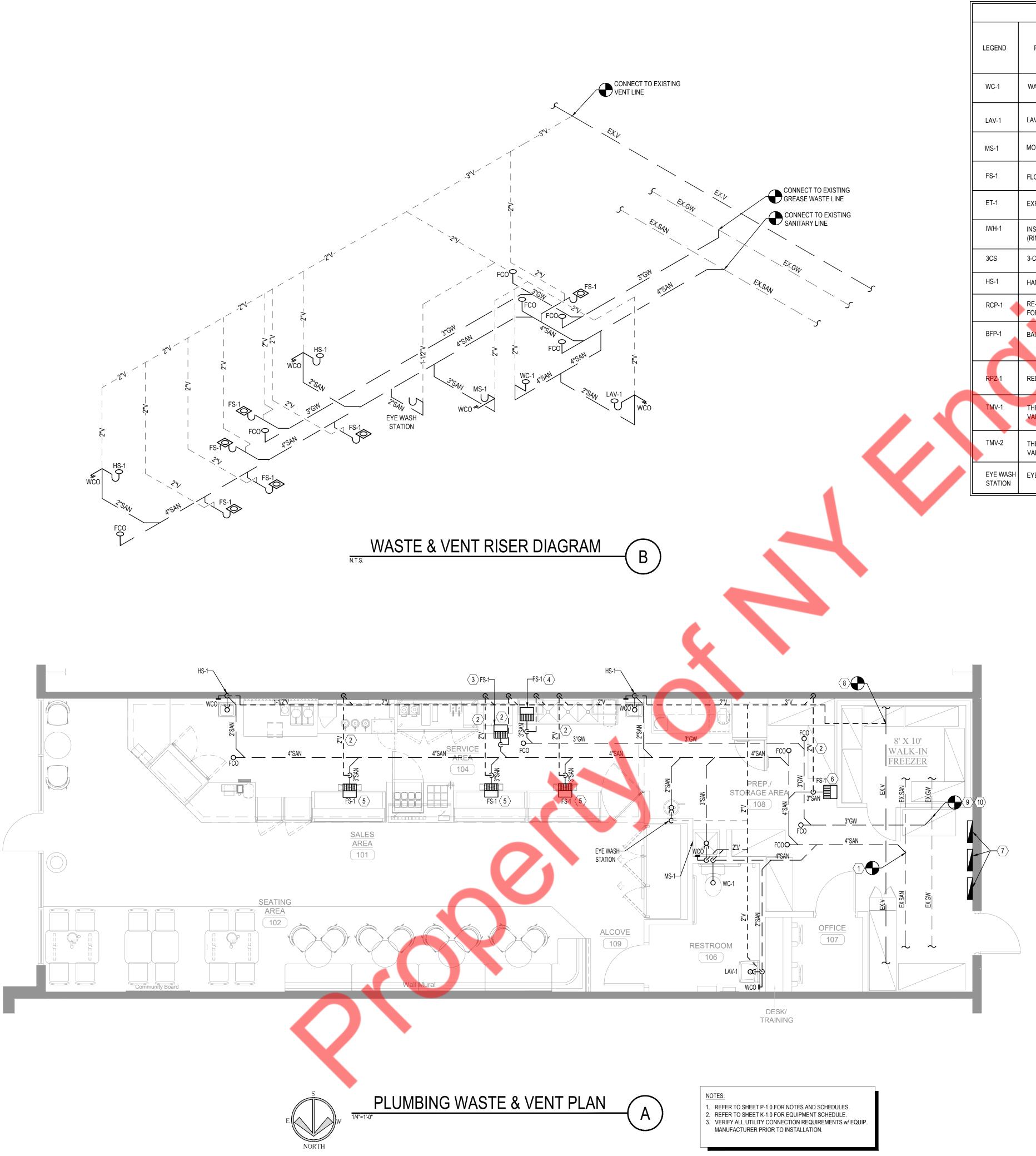
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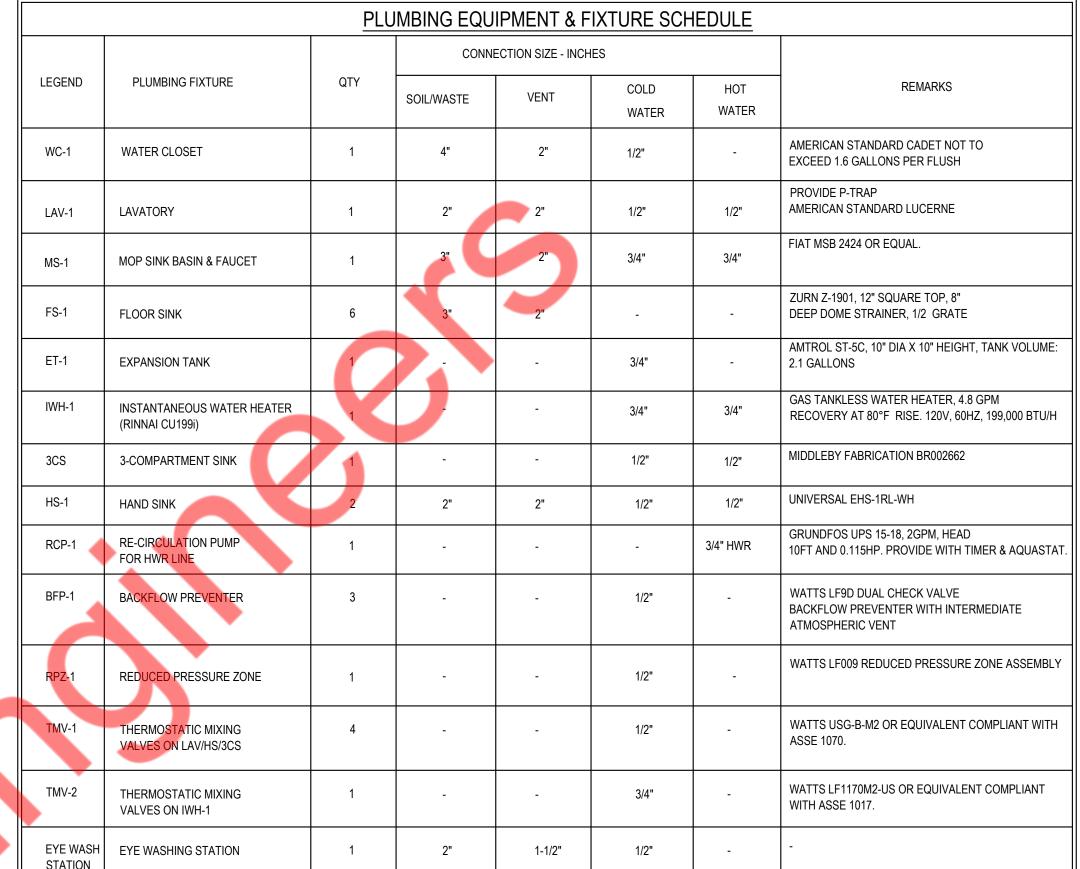
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PLUMBING KEYED NOTES:

- CONNECT TO EXISTING WASTE LINE. CONTRACTOR TO VERIFY P.O.C. SIZE, LOCATION, FLOW OF DIRECTION & INVERT IN FIELD.
- 2 VENT LINES ROUTED BELOW GRADE AS SHOWN.
- ROUTE INDIRECT WASTE FROM ICE MACHINE & ICE BIN TO FLOOR SINK WITH APPROVED AIR GAP. CONSULT ICE MACHINE INSTRUCTION MANUAL FOR INDIRECT PIPING REQUIREMENTS. REFER DETAIL F/P-3.0.
- ROUTE INDIRECT WASTE FROM 3 COMP. SINK TO FLOOR SINK WITH APPROVED AIR GAP.
- 5 ROUTE INDIRECT WASTE FROM DIPPERWELL TO FLOOR SINK WITH APPROVED AIR GAP
- ROUTE WALK-IN CONDENSATE DRAIN LINE IN WALL CAVITY AS HIGH AS POSSIBLE AND ALONG WALLS. PROVIDE ACCESS PANEL WHERE IT PENETRATES WALK IN BOX. INSULATE ALL CONDENSATE PIPING AND PITCH A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL CONDENSATE LINES MOUNTED ON INSIDE OF COOLER WALLS TO HAVE 3/4" NYLON STAND OFF BLOCKS WITH NYLON TIE. SEAL ALL COOLER WALL PENETRATIONS WATER TIGHT AND COVER EACH WITH AN ESCUTCHEON PLATE. PROVIDE FULL SIZE TRAP AND EXTEND ABOVE FLOOR AND BEHIND EQUIPMENT FOR AN INDIRECT CONNECTION TO FLOOR SINK. REFER TO DETAIL I/P-3.0.
- NO PIPING SHALL BE RUN ABOVE OR BELOW ELECTRIC PANELS.
- EXTEND AND CONNECT TO EXISTING VENT PIPE IN THE SPACE. CONTRACTOR TO VERIFY EXACT LOCATION OF VTR ON SITE. IF THERE IS LESS THAN 10'-0" CLEARANCE BETWEEN MECHANICAL UNIT INTAKES AND EXISTING VTR. CONTRACTOR TO PROPOSE NEW SUITABLE LOCATION FOR VTR.
- 9 CONNECT TO EXISTING GREASE WASTE LINE IN THE SPACE. CONTRACTOR TO FIELD VERIFY EXACT P.O.C., SIZE, LOCATION, FLOW OF DIRECTION & INVERT IN FIELD. CONFIRM WITH OWNER THAT GREASE INTERCEPTOR WILL RECEIVE MOSTLY CREAM AND BUTTER TYPE WASTE.
- CONTRACTOR TO FIELD VERIFY THE EXISTING GREASE INTERCEPTOR'S CAPACITY AND CONDITION. IF THE CAPACITY IS INSUFFICIENT BASED ON THE CALCULATED TOTAL GALLONS REQUIRED, REPLACE THE GREASE INTERCEPTOR. BEFORE REUSING, ENSURE THE EXISTING GREASE INTERCEPTOR IS THOROUGHLY CLEANED.

C D			Dim	ensions (Inc	hes)	Volu	ume	DEDCENTACE	ACTUAL	FLOW RA	44.18 22.09
SR. NO.	FIXTURE	QUANTITY	LENGTH (L)	WIDTH (W)	DEPTH (D)	CUBIC INCHES	GALLONS	PERCENTAGE USAGE	USAGE	1 MINUTE	2 MINUTES
1	3 COMP SINK (3CS)	3	18	18	14	13608	58.9	0.75	44.18	44.18	22.09
ТОТА	L									44.18	22.09

CONTRACTOR NOTE:

- IT IS RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD OR TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.
- BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE
- OF THE WORK.
- THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS.
- THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AS EXAMINATION AND COMPLIANCE WITH THE GOVERNING CODES/REQUIREMENTS HAS BEEN
- LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN HAD AND EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

SHEET TITLE

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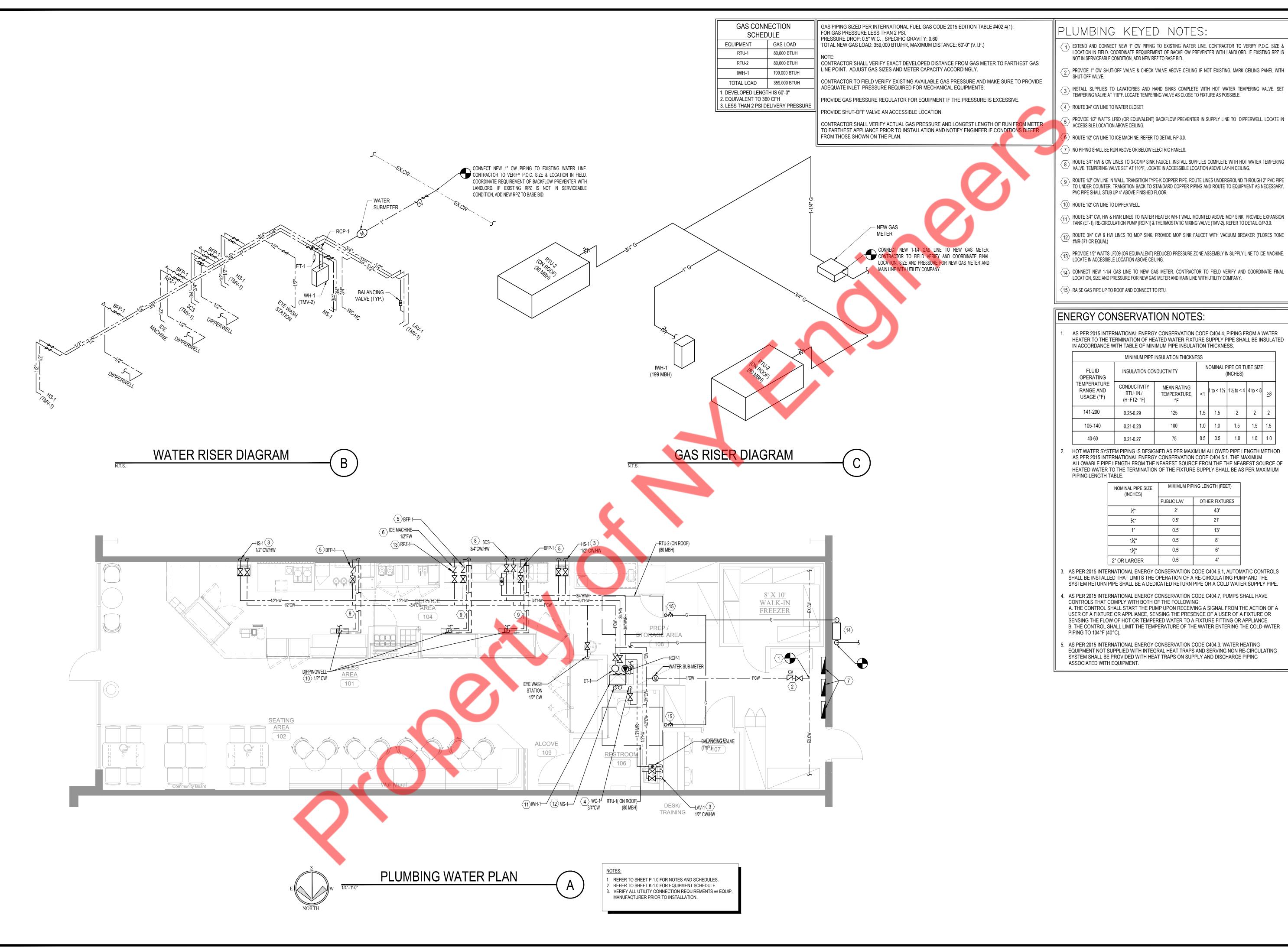
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PLUMBING WASTE & VENT PLAN

P-2.0



- > EXTEND AND CONNECT NEW 1" CW PIPING TO EXISTING WATER LINE. CONTRACTOR TO VERIFY P.O.C. SIZE & LOCATION IN FIELD. COORDINATE REQUIREMENT OF BACKFLOW PREVENTER WITH LANDLORD. IF EXISTING RPZ IS
- PROVIDE 1" CW SHUT-OFF VALVE & CHECK VALVE ABOVE CEILING IF NOT EXISTING. MARK CEILING PANEL WITH SHUT-OFF VALVE.
- PROVIDE 1/2" WATTS LF9D (OR EQUIVALENT) BACKFLOW PREVENTER IN SUPPLY LINE TO DIPPERWELL. LOCATE IN
- ROUTE 3/4" HW & CW LINES TO 3-COMP SINK FAUCET. INSTALL SUPPLIES COMPLETE WITH HOT WATER TEMPERING
- 9 ROUTE 1/2" CW LINE IN WALL. TRANSITION TYPE-K COPPER PIPE. ROUTE LINES UNDERGROUND THROUGH 2" PVC PIPE $^{\prime}$ to under counter. Transition back to standard copper piping and route to equipment as necessary.
- ROUTE 3/4" CW, HW & HWR LINES TO WATER HEATER WH-1 WALL MOUNTED ABOVE MOP SINK. PROVIDE EXPANSION
- ROUTE 3/4" CW & HW LINES TO MOP SINK. PROVIDE MOP SINK FAUCET WITH VACUUM BREAKER (FLORES TONE

 - LOCATION, SIZE AND PRESSURE FOR NEW GAS METER AND MAIN LINE WITH UTILITY COMPANY.

AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.4, PIPING FROM A WATER HEATER TO THE TERMINATION OF HEATED WATER FIXTURE SUPPLY PIPE SHALL BE INSULATED

	MINIMUM PIPE	INSULATION THICKNE	ESS				
FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY BTU· IN./ (H· FT2· °F)	MEAN RATING TEMPERATURE, °F	<1	1 to < 1½	1½ to < 4	4 to < 8	<u>></u> 8
141-200	0.25-0.29	125	1.5	1.5	2	2	2
105-140	0.21-0.28	100	1.0	1.0	1.5	1.5	1.5
40-60	0.21-0.27	75	0.5	0.5	1.0	1.0	1.0

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

- SHALL BE INSTALLED THAT LIMITS THE OPERATION OF A RE-CIRCULATING PUMP AND THE SYSTEM RETURN PIPE SHALL BE A DEDICATED RETURN PIPE OR A COLD WATER SUPPLY PIPE.
- . AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.7, PUMPS SHALL HAVE A. THE CONTROL SHALL START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE, SENSING THE PRESENCE OF A USER OF A FIXTURE OR SENSING THE FLOW OF HOT OR TEMPERED WATER TO A FIXTURE FITTING OR APPLIANCE. B. THE CONTROL SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER
- . AS PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE C404.3, WATER HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NON RE-CIRCULATING SYSTEM SHALL BE PROVIDED WITH HEAT TRAPS ON SUPPLY AND DISCHARGE PIPING

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> > SHEET TITLE

PLUMBING WATER GAS SUPPLY PLAN

