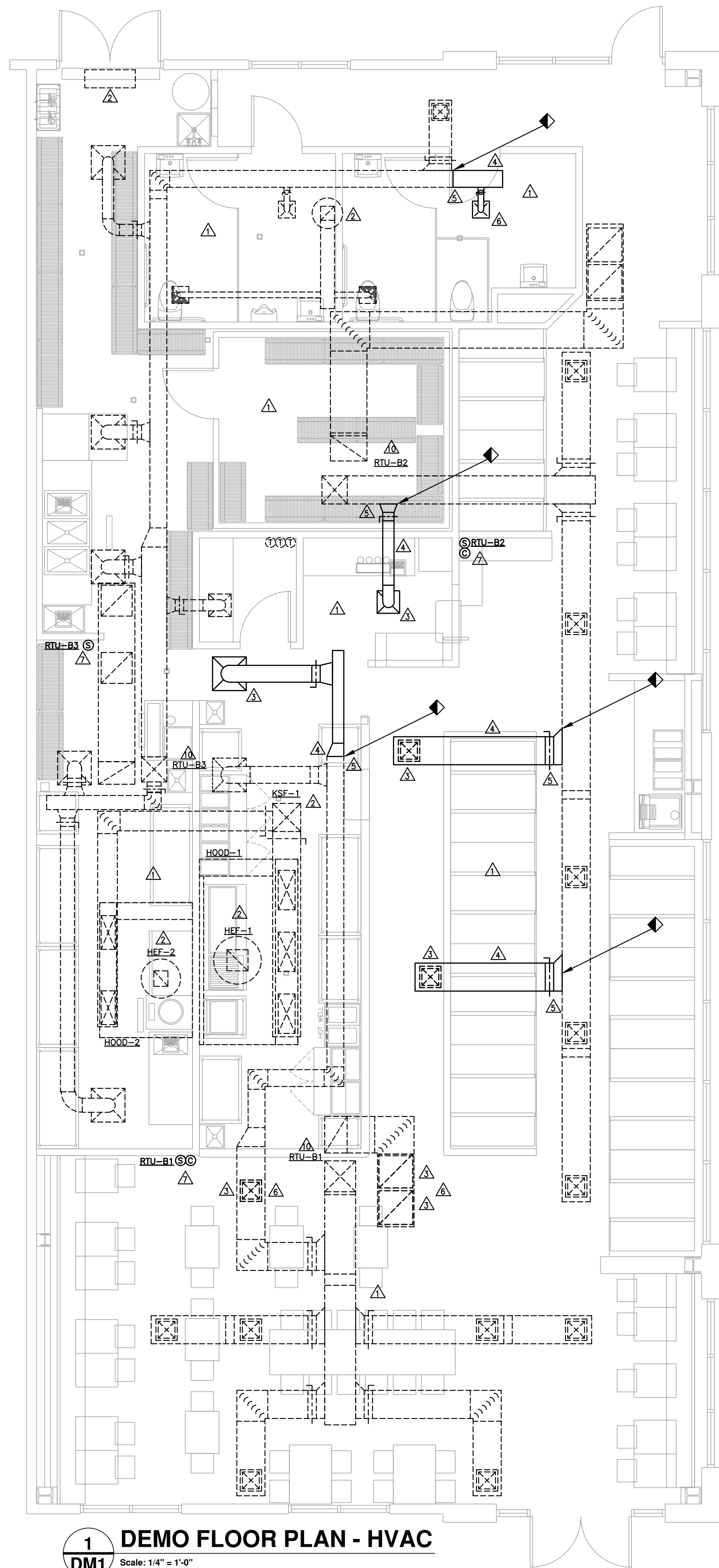
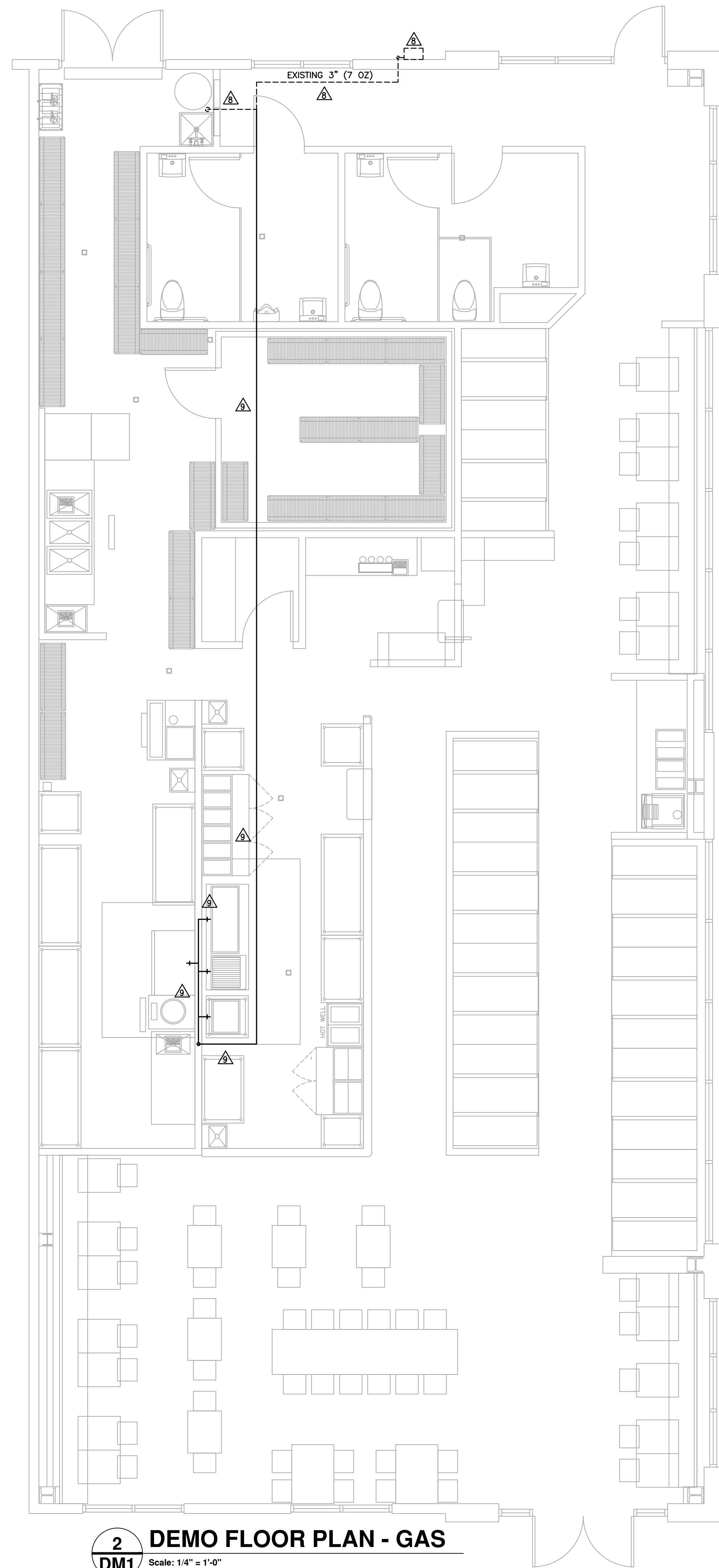




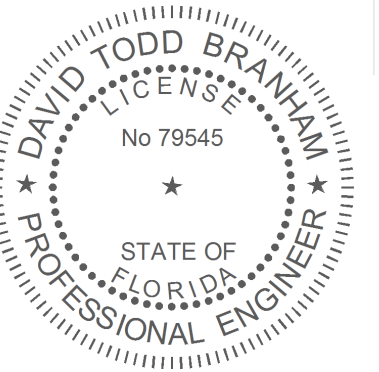
1 DEMO FLOOR PLAN - HVAC
Scale: 1/4" = 1'-0"

DEMOLITION NOTES:

- △ CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
- △ EXISTING HVAC EQUIPMENT, DUCTWORK, AND AIR DEVICES SHALL REMAIN IN USE UNLESS OTHERWISE NOTED.
- △ REMOVE EXISTING AIR DEVICES AS SHOWN.
- △ REMOVE EXISTING DUCTWORK AS SHOWN.
- △ CAP ALL UNUSED OPENINGS WITH INSULATED SHEET-METAL.
- △ REMOVE EXISTING AIR DEVICE AS SHOWN FOR RELOCATION UNDER NEW WORK.
- △ RELOCATE EXISTING SENSOR. REFER TO NEW PLANS FOR LOCATION.
- △ EXISTING GAS PIPING AND METER TO REMAIN.
- △ EXISTING GAS PIPING SHALL BE REMOVED AS SHOWN.
- △ EXISTING RTU TO REMAIN. CONTRACTOR SHALL SERVICE EXISTING HVAC UNITS AND PROVIDE ROUTINE MAINTENANCE PER MANUFACTURER'S RECOMMENDATIONS. REPORT ANY AND ALL DEFICIENCIES TO THE BUILDING OWNER AND TENANT.



2 DEMO FLOOR PLAN - GAS
Scale: 1/4" = 1'-0"



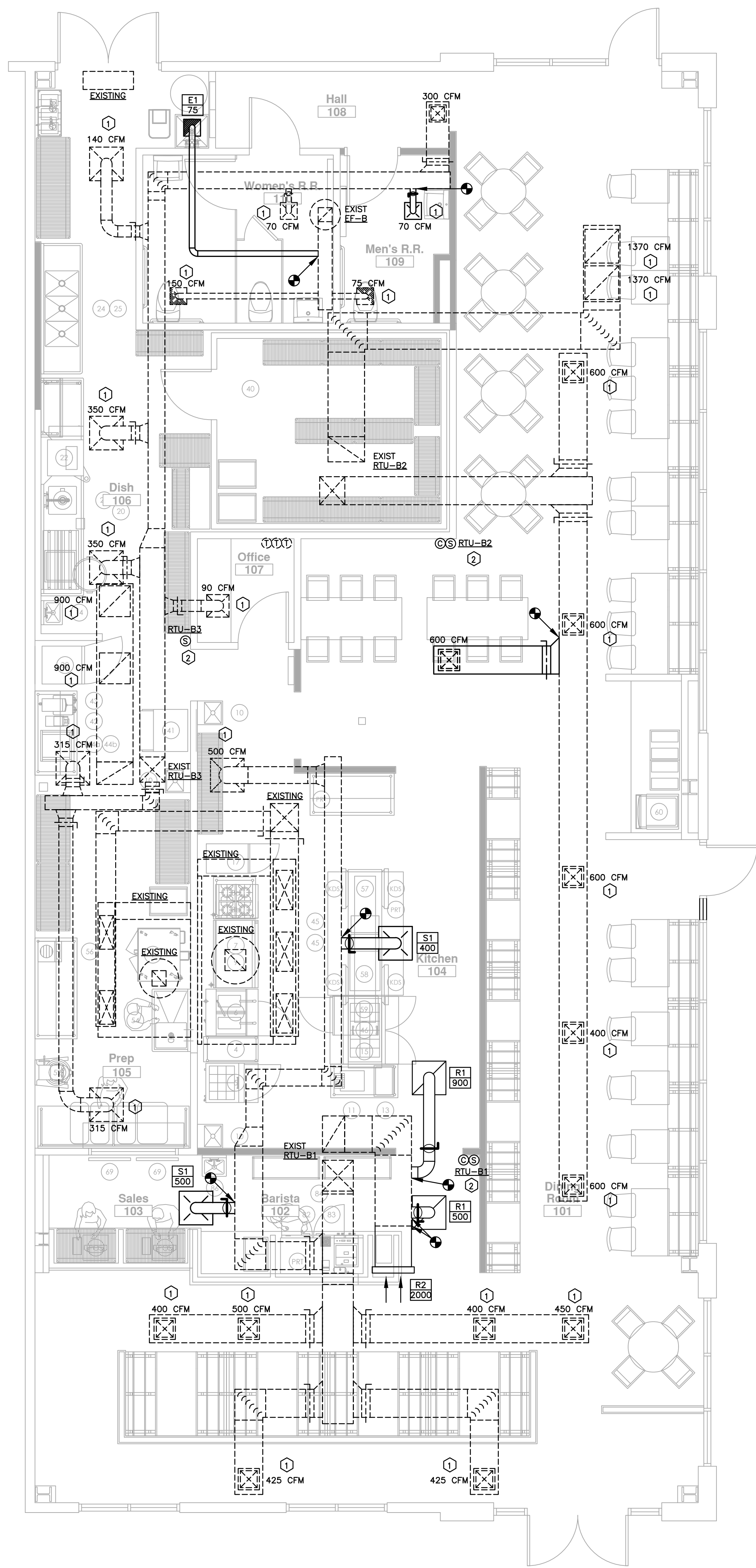
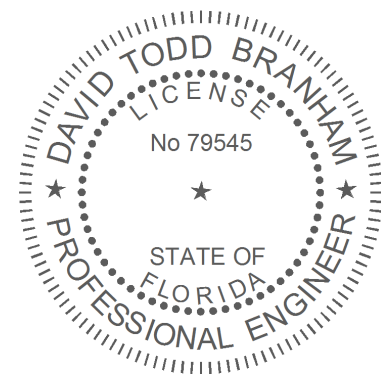
Biscuit Belly
15463 Panama City Beach Pkwy Ste B
Panama City Beach, FL 32413

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DEMO FLOOR PLAN
- MECHANICAL





HVAC NOTES:

- ① RE-BALANCE EXISTING AIR DEVICE FOR CFM AS SHOWN.
- ② RELOCATED SENSORS MOUNTED 54" AFF.

GENERAL HVAC NOTES:

- 1. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- 2. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT BUILDING ARRANGEMENT, DIMENSIONS AND DETAILS. THESE DRAWINGS ARE DIAGRAMMATIC, AND ARE NOT TO BE SCALED.
- 3. COORDINATE DUCT AND PIPE ROUTING AND EQUIPMENT LOCATION WITH PLUMBING AND ELECTRICAL INSTALLATIONS AND WITH BUILDING STRUCTURAL MEMBERS. OFF-SET DUCTS/PIPING AND SHIFT EQUIPMENT AS REQUIRED TO AVOID CONFLICTS WITH OTHER INSTALLATIONS.
- 4. COORDINATE LOCATION OF CEILING REGISTERS WITH LIGHTING LAYOUT, SPRINKLER HEADS AND CEILING GRID SYSTEMS AND APPURTENANCES. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION.
- 5. DUCT SIZES INDICATED ON THE PLANS ARE CLEAR INSIDE DIMENSIONS REQUIRED. WHERE LINER IS INDICATED OR NOTED, INCREASE DUCT SIZE TO ACHIEVE INDICATED DIMENSION(S).
- 6. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE, PHASE, MAXIMUM ALLOWABLE CURRENT DRAW, AMPERAGE AND CONNECTION ARRANGEMENT (SINGLE, MULTI-POINT, ETC.) OF ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING/INSTALLING EQUIPMENT.
- 7. SUPPORT ALL DUCTS, PIPING AND EQUIPMENT FROM PRIMARY BUILDING STRUCTURAL MEMBERS AND PROVIDE SUPPLEMENTAL STRUCTURAL FRAMING AS REQUIRED BETWEEN PRIMARY BUILDING STRUCTURAL MEMBERS TO SUPPORT ALL SYSTEMS INSIDE THE BUILDING.
- 8. PROVIDE STRUCTURAL FRAMING AROUND FULL PERIMETER OF ALL ROOF OPENING/EQUIPMENT. PROVIDE STRUCTURAL LINTELS ABOVE ALL WALL OPENINGS. SEE STRUCTURAL FOR LINTEL DETAIL(S).
- 9. PROVIDE PIPE SLEEVE THRU ALL WALLS AND THRU ALL FLOOR SLABS. SEE PIPE SLEEVE DETAIL.
- 10. PROVIDE PIPE HANGERS FOR ALL SUSPENDED PIPING AS SHOWN IN DETAILS. PROVIDE PIPE STAND FOR ALL FLOOR/GRADE MOUNTED PIPING AS SHOWN IN DETAILS.
- 11. INSTALL DUCT PENETRATIONS THROUGH NON-RATED WALLS AS SHOWN IN DETAILS.
- 12. PROTECT ALL NEW OPENING IN ACCORDANCE WITH BARRED ROOF OPENING AND ARCHITECTURAL REQUIREMENTS.
- 13. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND OTHER DISCIPLINES PRIOR TO CONSTRUCTION.
- 14. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- 15. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- 16. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
- 17. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
- 18. ALL DUCTWORK SHALL BE RIGID TYPE UNLESS OTHERWISE NOTED ON PLANS.
- 19. REFER TO AIR DEVICE SCHEDULE FOR INDIVIDUAL RUNOUT SIZES.

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M1.1

FLOOR PLAN - HVAC

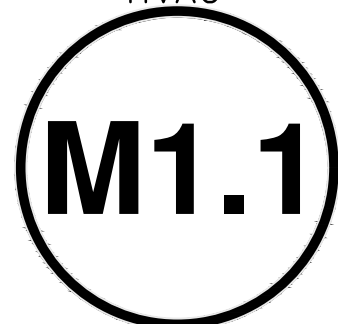
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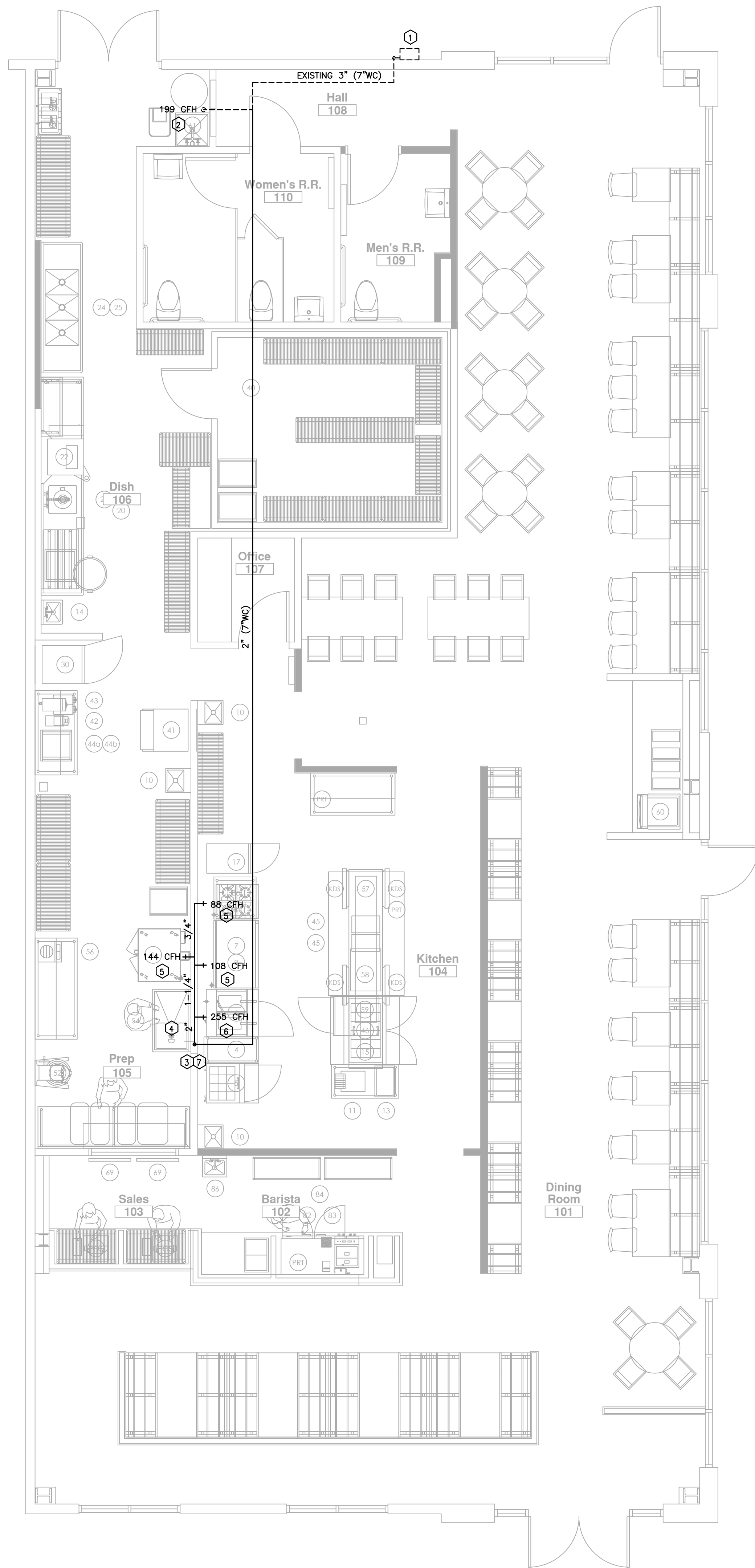
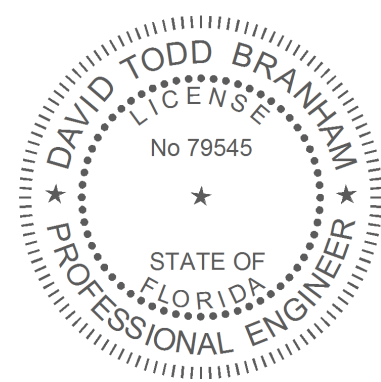
15 Sept 2026

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FLOOR PLAN –

HVAC





GAS NOTES:

- NEW CONNECTED LOAD AT METER SHALL BE 1,111 CFH. VERIFY WITH LOCAL UTILITY COMPANY THAT EXISTING METER IS SUFFICIENT FOR NEW LOAD. IF NOT SUFFICIENT, COORDINATE REPLACEMENT OF METER WITH LOCAL UTILITY.
- EXISTING 1-1/4" GAS TO EXISTING WATER HEATER.
- ROUTE 2" GAS PIPING TO HOOD AUTOMATIC SHUT-OFF VALVE(S) PROVIDED BY FIRE SUPPRESSION COMPANY.
- ROUTE 2" GAS PIPING HEADER FROM HOOD AUTOMATIC VALVE TO BEHIND EQUIPMENT.
- PROVIDE 3/4" CONNECTION WITH SHUT-OFF VALVE AND FLEXIBLE CONNECTOR TO APPLIANCE.
- PROVIDE 1" CONNECTION WITH SHUT-OFF VALVE AND FLEXIBLE CONNECTOR TO APPLIANCE.
- PROVIDE GAS COCK, AND DRIP LEG.

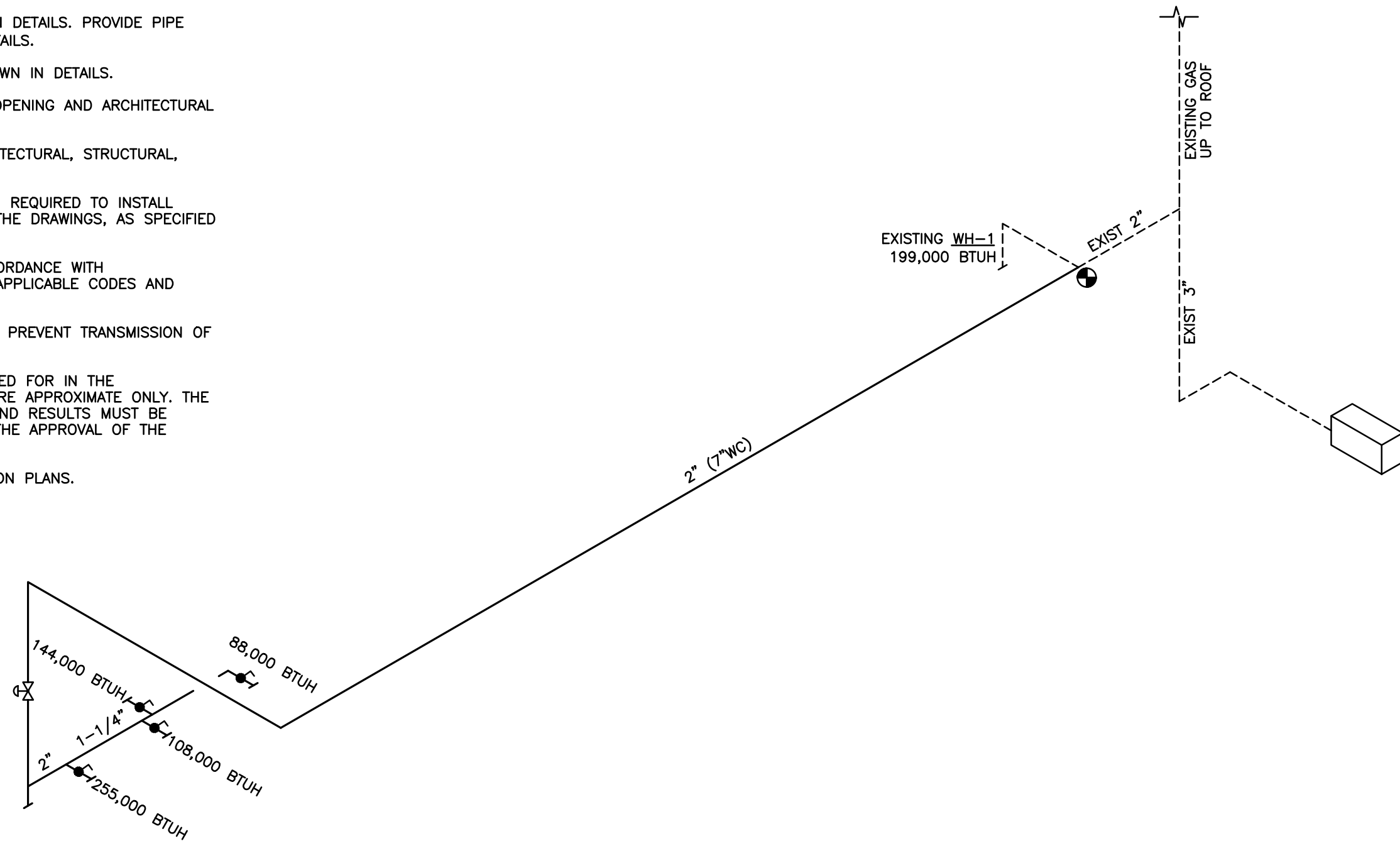
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- ALL DUCTWORK SHALL BE RIGID TYPE UNLESS OTHERWISE NOTED ON PLANS.
- REFER TO AIR DEVICE SCHEDULE FOR INDIVIDUAL RUNOUT SIZES.

GAS LOAD AND FLUE SCHEDULE						
ITEM	NUMBER OF ITEMS	TOTAL LOAD FOR ITEMS (CFH)	GAS PRESSURE	LOCATION	FLUE SIZE AND TYPE (EACH ITEM)	REMARKS
EXISTING RTU-B1	1	120	7" WC	ROOF	-	1,2
EXISTING RTU-B2	1	125	7" WC	ROOF	-	1,2
EXISTING RTU-B3	1	72	7" WC	ROOF	-	1,2
#1 - OVEN	1	144	7" WC	KITCHEN	-	-
#6 - FRYER	1	255	7" WC	KITCHEN	-	-
#9 - GRIDDLE	1	108	7" WC	KITCHEN	-	-
#3 - HOT PLATE	1	88	7" WC	KITCHEN	-	-
EXISTING WH-1	1	199	7" WC	KITCHEN	2" PVC	1,2
	8	1,111				

NOTES:

- EXISTING GAS PIPING SIZED FOR LOW PRESSURE.
- GAS PIPING SIZED AT 100 EQUIVALENT FEET.



SUPPLY AIR DEVICES									
MARK	NECK SIZE	CFM RANGE	MAX TOTAL ΔP	MAX NC	TITUS MODEL NO.				
					SERIES	ACCESSORIES	REMARKS		
S1 —	4"ø NECK	UP TO 85	0.08"	30	TMSI	①	12x12 SQUARE CEILING DIFFUSER WITH OPPOSED BLADE DAMPER AND INSULATION BLANKET		
	5"ø NECK	86–125	0.08"	30	TMSI				
	6"ø NECK	126–160	0.08"	30	TMSI				
S1 —	6"ø NECK	161–180	0.08"	30	TMSI	①	24x24 SQUARE CEILING DIFFUSER WITH OPPOSED BLADE DAMPER AND INSULATION BLANKET		
	8"ø NECK	181–310	0.08"	30	TMSI				
	10"ø NECK	311–440	0.08"	30	TMSI				
	12"ø NECK	441–590	0.08"	30	TMSI				
	14"ø NECK	591–750	0.08"	30	TMSI				
	15"ø NECK	751–825	0.08"	30	TMSI				
S2 —	12x4 NECK	121–170	0.08"	30	300RS	①	LOUVERED FACE, DOUBLE DEFLECTION SIDEWALL SUPPLY REGISTER, 22.5" BLADE DEFLECTION TO EACH SIDE, 3/4" SPACING		
	16x4 NECK	171–230	0.08"	30	300RS				
	20x4 NECK	231–300	0.08"	30	300RS				
RETURN DEVICES									
R1 —	6"ø NECK	UP TO 115	0.08"	30	8R		24x24 PERFORATED FACE RETURN		
	8"ø NECK	116–200	0.08"	30	8R				
	10"ø NECK	201–310	0.08"	30	8R				
	12"ø NECK	311–450	0.08"	30	8R				
	14"ø NECK	451–600	0.08"	30	8R				
	15x15 NECK	601–930	0.08"	30	8R				
R2 —	24X24	UP TO 1800	0.08"	30	350RL		LOUVERED FACE, SINGLE DEFLECTION SIDEWALL RETURN GRILLE, 30" BLADE DEFLECTION		
	36X18	1800 TO 2800	0.08"	30	350RL				
EXHAUST DEVICES									
E1 —	6x6	UP TO 115	0.08"	30	50F		1/2" EGGRATE RETURN GRILLE W/ ALUMINUM BORDER AND GRID		
	8x8	116–250	0.08"	30	50F				
X — XXX — SERVICE AND MARK NUMBER— S = SUPPLY R = RETURN ACCESSORIES: ① OBD									
NOTES: 1. CEILING DEVICES FURNISHED SHALL BE COMPATIBLE WITH CEILINGS SPECIFIED BY ARCHITECT. 2. UNLESS OTHERWISE NOTED, PROVIDE SOUND ATTENUATING FLEX DUCT AT CONNECTION. 3. PROVIDE SUPPLY AIR CEILING DEVICES WITH 4–WAY THROW PATTERN, UNLESS OTHERWISE INDICATED.									
SUPPLY RUNOUT SIZES (U.N.O.) CFM_RANGES DUCT_SIZE 0–100 6"ø 101–130 7"ø 131–200 8"ø 201–260 9"ø 261–400 10"ø 401–500 11"ø 501–620 12"ø 621–790 14"ø RETURN RUNOUT SIZES (U.N.O.) CFM_RANGES DUCT_SIZE 0–75 6"ø or 6/6 76–140 7"ø or 8/6 141–190 8"ø or 8/8 191–250 9"ø or 10/8 251–320 10"ø or 10/10 321–420 11"ø or 12/10 421–520 12"ø or 12/12 521–800 14"ø or 14/12 * RUNOUT SIZES TO BE USED ONLY IF NOT NOTED ON PLANS.									

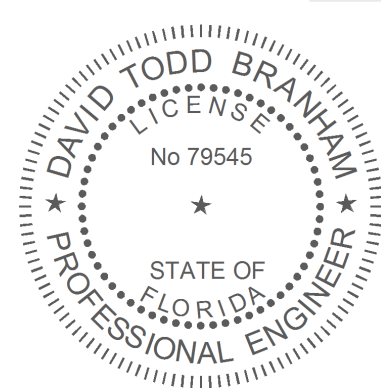
EXISTING ROOFTOP UNIT SCHEDULE																			
MARK	SA CFM MAXIMUM	OA CFM	EXT. SPWG (INCHES)	COOLING DATA				HEATING DATA				ELECTRICAL DATA						MANUFACTURER & MODEL NUMBER	INTERLOCKS (SEE FAN SCHED.)
				ENT. AIR Fdb	FWD	CAPACITY AIR SUPPLY SENSIBLE	STANDARD TOTAL	FUEL	INPUT MBH	HEAT STAGE	FURNACE MIN. EFFIC. (AFU)	VOLTAGE	MCA	MOCp	COMPRESSOR RLA / LRA	CONDENSER FAN FLA	EVAPORATOR FAN HP / FLA	EXHAUST FAN FLA	
RTU–B1	4,000	600																	
RTU–B2	3,400	660																	
RTU–B3	2,000	200																	

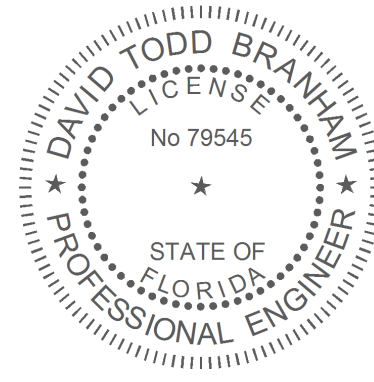
NOTES:
1. REBALANCE OUTSIDE AIR FOR CFM AS SHOWN. PROVIDE MANUAL OUTSIDE AIR DAMPER IF NOT EQUIPPED.

LEGEND	
SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
CO	CLEAN OUT
CU	CONDENSING UNIT
EF	EXHAUST FAN
F	FAN COIL UNIT
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
SF	SUPPLY FAN
UH	UNIT HEATER
—	SUPPLY DUCTWORK
—	RETURN DUCTWORK
—	EXHAUST DUCTWORK
	DUCT MOUNTED SUPPLY GRILLE
	SUPPLY AIR (DENOTES FOUR WAY DIFFUSER)
	RETURN AIR
	EXHAUST AIR
	SIDEWALL RETURN AIR GRILLE
	SUPPLY DUCT UP
	RETURN / EXHAUST DUCT UP
①	WALL THERMOSTAT
②	INDICATES KEY NOTES
	AIR DEVICE #1 CFM AIR QUANTITY } SEE AIR DISTRIBUTION SCHEDULE
—MVD	MANUAL VOLUME BALANCING DAMPER
	NEW TO EXISTING SYMBOL
	DEMOLITION POINT OF DISCONNECT

OUTSIDE AIR REQUIREMENTS (ASHRAE 62.1-2019)											
AREA	AREA	UNIT	FLOOR	OA RATE		OCCUPANCY	TOTAL				
SERVED	CLASSIFICATION	SERVED	AREA (SF)	CFM/SF	CFM	PEOPLE / 1000 SF	PEOPLE	CFM / PERSON	CFM	EXHAUST	TOTAL OA
MAIN ENTRY	MAIN ENTRY	RTU-B1	180	0.06	11	10	2	5	9	0	20
	RESTAURANT DINING ROOM	RTU-B1	350	0.18	63	70	25	7.5	184	0	247
	SALES	RTU-B1	200	0.12	24	15	3	7.5	23	0	47
	KITCHEN (COOKING)	RTU-B1	420	0.12	50	20	8	7.5	63	0	113
											426
DINING	RESTAURANT DINING ROOM	RTU-B2	920	0.18	166	70	64	7.5	483	0	649
	HALL CORRIDOR	RTU-B2	180	0.06	11	0	0	0	0	0	11
											659
RESTROOM	TOILET	RTU-B3	115	0	0	0	0	0	0	0	0
	TOILET	RTU-B3	65	0	0	0	0	0	0	0	0
	OFFICE	RTU-B3	40	0.06	2	5	0	5	1	0	3
	KITCHEN (COOKING)	RTU-B3	575	0.12	69	20	12	7.5	86	0	155
	HALL CORRIDOR	RTU-B3	65	0.06	4	0	0	0	0	0	4
											163

AIR BALANCE						
MARK	SUPPLY CFM	RETURN CFM	OUTSIDE AIR CFM	EXHAUST CFM	RELATIVE PRESSURE (CFM)	REMARKS
EXISTING RTU–B1	4,000	3,400	600	–	–	FRONT OF HOUSE AC
EXISTING RTU–B2	3,400	2,740	660	–	–	FRONT OF HOUSE AC
EXISTING RTU–B3	2,000	3,000	200	–	–	BACK OF HOUSE AC
KSF–1	2,980	–	2,980	–	–	MAKE–UP AIR UNIT
HEF–1	–	–	–	2,500	–	HOOD EXHAUST
HEF–2	–	–	–	1,225	–	HOOD EXHAUST
EF–B	–	–	–	300	–	TOILET/JAN EXHAUST
TOTALS	12,380	9,140	4,440	4,025	415	





HVAC SPECIFICATIONS

PART 1

GENERAL

- FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION AND INCIDENTALS TO COMPLETE THE PROJECT IN EVERY DETAIL, AND LEAVE IN WORKING ORDER ALL ITEMS CALLED FOR HEREIN OR SHOWN ON THE ACCOMPANYING DRAWINGS.
- IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.
- LAYOUT SHOWN IN DRAWINGS IS BASED ON A PARTICULAR MAKE OF EQUIPMENT. CONTRACTOR SHALL PROVIDE SIX SUBMITTAL SETS OF SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO STARTING WORK. IF ANOTHER MAKE OF EQUIPMENT IS DESIRED, THESE SUBMITTALS SHALL ALSO SHOW ALL REQUIRED MODIFICATIONS AND CHANGES, INCLUDING THOSE INVOLVING OTHER TRADES, AND COST THEREOF SHALL BE INCLUDED IN HIS BID. CONTRACTOR MUST RECEIVE APPROVED SUBMITTAL COPY, SIGNED BY ENGINEER BEFORE PROCEEDING WITH ANY MODIFICATIONS. WORK INSTALLED USING UNAPPROVED SUBSTITUTIONS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL VISIT THE SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING SCOPE OF WORK. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF ANY RESPONSIBILITY IN THE PERFORMANCE OF HIS WORK. ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE BY CRAFTSMEN SKILLED IN THIS PARTICULAR WORK. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN ALL PERMITS AND CERTIFICATES OF INSPECTION RELATIVE TO THIS WORK.
- COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF THE FOLLOWING: STATE BUILDING CODE, INTERNATIONAL BUILDING CODE, NFPA-90A, NFPA-101, NFPA-96, AND NFPA-54. ALL EQUIPMENT SHALL BE ARI CERTIFIED AND U.L. LISTED.
- SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM OF FIVE (5) YEAR WARRANTY INCLUDING LABOR.
- UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO ACCEPTABLE CONDITION. ALL EQUIPMENT COMPONENTS AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.
- IF HVAC EQUIPMENT IS USED FOR TEMPORARY HEATING, THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR CLEANING FILTERS, COILS, AND OTHER EQUIPMENT. FINAL PERMANENT CONNECTIONS OF SERVICES TO UNITS SHALL BE COMPLETE PRIOR TO ANY START-UP OF EQUIPMENT.

PART 2

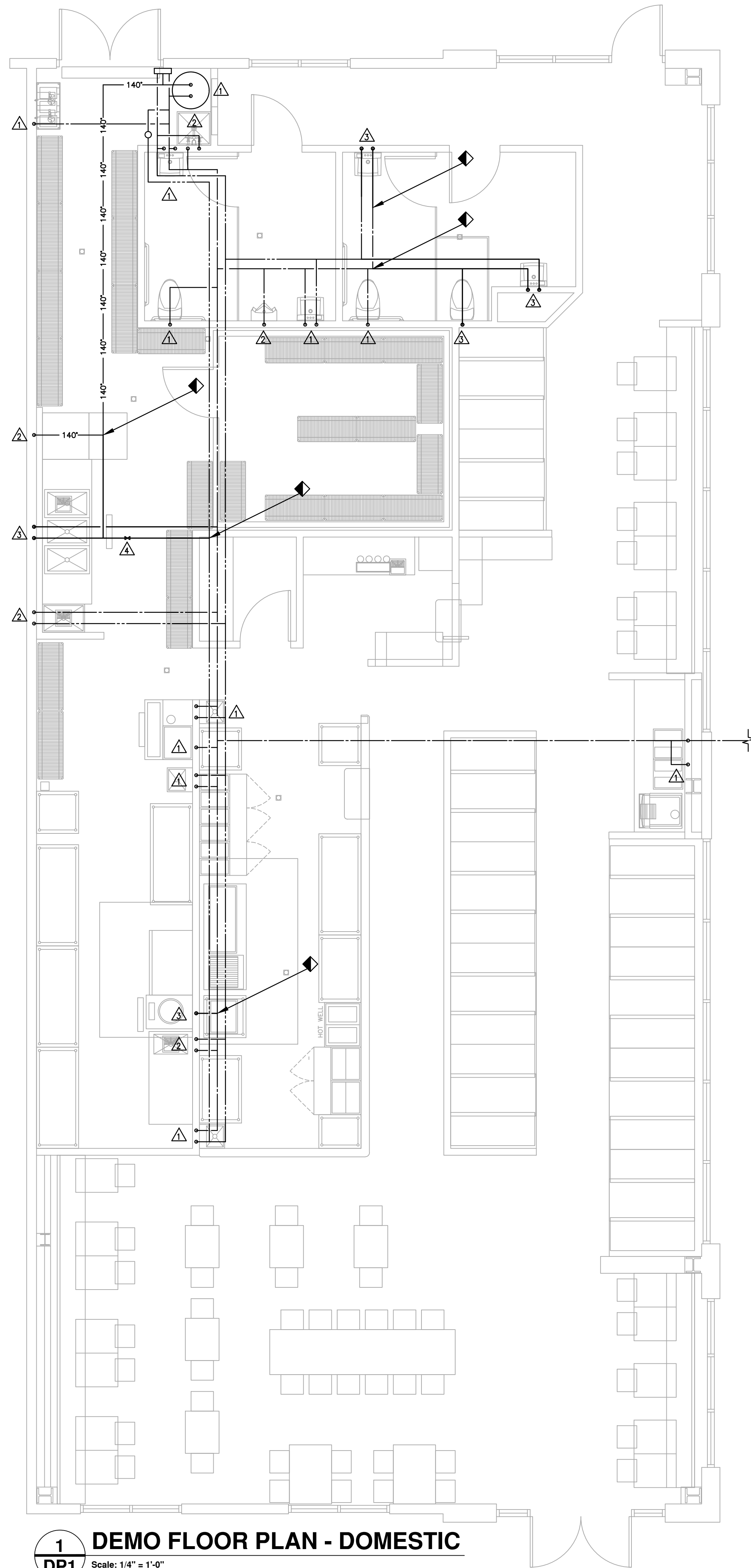
PRODUCTS

- HEATING AND COOLING EQUIPMENT

- FURNISH AND INSTALL ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND NATURAL GAS FIRED HEATING UNITS BY CAPTIVEAIRE AS SHOWN ON DRAWINGS. UNITS SHALL BE MOUNTED ON A MATCHING FULL PERIMETER SEISMICALLY BRACED ROOF CURB PROVIDED BY EQUIPMENT MANUFACTURER. REFER TO SCHEDULE FOR ALL ACCESSORIES. MANUFACTURERS NOT LISTED ABOVE SHALL BE REQUIRED TO GET PRE-APPROVED PRIOR TO BIDDING. CONTACT ENGINEER OF RECORD FOR APPROVAL.
- UNIT SHALL BE FACTORY ASSEMBLED, TESTED AND HAVE COMPLETE REFRIGERANT CHARGE, READY TO OPERATE. ALL TUBING JOINTS SHALL BE BRAZED. COIL SHALL BE MINIMUM OF 3-ROWS DEEP. COIL SHALL BE COPPER TUBING W/ ALUMINUM PLATE FINS. SPINE FINS ARE NOT ACCEPTABLE.
- FAN SHALL BE STATICALLY AND DYNAMICALLY BALANCED, DOUBLE INLET, FORWARD CURVED BLOWER CAPABLE OF DELIVERING DESIGN CFM. FAN SHALL BE QUIET IN OPERATION AS DETERMINED BY THE ENGINEER, AND INTERNALLY VIBRATION ISOLATED.
- EQUIPMENT SHALL BE COMPLETELY FACTORY WIRED WITH ALL CONTROL AND PROTECTIVE DEVICES. ALL EQUIPMENT SHALL HAVE A SMOKE DETECTOR IN RETURN DUCT AND CONTROLS FOR SMOKE DETECTORS SHUTDOWN. FIRE-STATS SHALL BE INCLUDED ON ALL OTHER UNITS AS REQUIRED BY CODE. ALL FIRE-STATS SHALL HAVE 136" SETPOINT.
- FILTERS SHALL BE FARR MERV-4 1" OR MERV-7 2" THROW AWAY TYPE, OR AS SCHEDULED. A CLEAN SET OF REPLACEMENT FILTERS SHALL BE PROVIDED BY CONTRACTOR UPON START-UP OF EQUIPMENT.
- SYSTEMS SHALL BE COMPLETE WITH THERMOSTAT AND SUBBASE SPECIFICALLY DESIGNED FOR SYSTEM AND AS SHOWN ON DRAWINGS.
- ACCESSORIES SHALL INCLUDE TIME DELAY RELAYS TO PREVENT COMPRESSOR SHORT CYCLING, MALFUNCTION SWITCH, FIRE-STAT CUT-OUTS, LOW PRESSURE SWITCH, HIGH-PRESSURE CUT-OUT, LOW AMBIENT OPERATING KIT, CRANK CASE HEATER & COIL GUARD.
- UNITS SHALL HAVE MANUAL OUTSIDE AIR DAMPERS EXCEPT AS SHOWN ON DRAWINGS.
- REFRIGERANT PIPING TO BE ACR COPPER, TYPE L, HARD DRAWN WITH SILVER BRAZED JOINTS. ALL JOINT CONNECTIONS TO BE WITH SILFOS OR STAY-BRITE #8. USE MANUFACTURER'S RECOMMENDED FLUX ON ALL BRAZED JOINTS. PROVIDE ISOLATION / CHARGING VALVES, FILTER DRIER, AND MOISTURE INDICATING SIGHT GLASS. REFRIGERANT SUCTION PIPING TO BE INSULATED WITH 3/4" THICK AP ARMAFLEX. EXTERIOR INSULATED PIPING SHALL HAVE ALUMINUM JACKET COVER WITH ALL SEAMS CAULKED WITH RTV CLEAR SILICONE CAULKING.
- GAS FIRED EQUIPMENT
- ALL GAS FIRED EQUIPMENT SHALL BE AGA CERTIFIED.
- BURNERS SHALL BE EQUIPPED WITH CONTROLS AND SAFETIES REQUIRED FOR COMPLETE AND FULLY OPERATIONAL SYSTEM. PILOT SHALL BE INTERMITTENT ELECTRIC IGNITION TYPE.
- HEAT EXCHANGER SHALL BE PROVIDED WITH A MINIMUM FIVE (5) YEAR FULL WARRANTY.
- FANS
- FANS SHALL BE EQUAL TO THE MAKE AND MODEL(S) INDICATED AND SHALL BE LOCATED AS SHOWN ON DRAWINGS. FANS SHALL BE PENN, ACME, LOREN COOK OR GREENHECK. CURB MOUNTED FANS SHALL BE MOUNTED ON INSULATED CURBS, MINIMUM 1'-0" HIGH.
- FANS SHALL OPERATE CONTINUOUSLY UNLESS OTHERWISE NOTED ON EQUIPMENT SCHEDULE TO BE SWITCHED. SWITCH SHALL BE INSTALLED BY DIVISION 13.
- DUCTWORK AND INSULATION
- ALL LOW PRESSURE DUCTWORK SHALL BE SHEETMETAL 1" SPWG CONSTRUCTION EXCEPT AS NOTED. CONSTRUCTION STANDARDS AND RECOMMENDATIONS OF SMACNA, LATEST EDITION, SHALL BE FOLLOWED WITH RESPECT TO CONSTRUCTION, INSTALLATION AND SUPPORTING OF ALL DUCTWORK. EXCEPT MINIMUM GAUGE SHALL BE 24 GAUGE. ALL JOINTS SHALL BE SEALED WITH APPROVED SEALANT.
- DIMENSIONS FOR SHEETMETAL WORK ON DRAWINGS ARE INSIDE CLEAR UNLESS OTHERWISE NOTED. CONTRACTOR SHALL ADJUST SHEETMETAL SIZES TO ALLOW FOR INTERNAL LINER WHERE SPECIFIED.
- ALL RECTANGULAR RETURN DUCTS SHALL HAVE INTERNAL INSULATION. INSULATION SHALL BE 1" THICK AT 1.5 LB DENSITY, GLUED AND PINNED. WHERE INTERNAL LINER AND EXTERNAL WRAP MEET, THEY SHALL OVERLAP BY MINIMUM OF 6". INSULATION SHALL BE BY ARXVILLE T-1 CORPORATION, CERTAINTED OR KNAUF. ROUND RETURN DUCTS IN UNCONDITIONED SPACES SHALL HAVE 2" EXTERNAL INSULATION SAME AS SUPPLY DUCTS.
- ALL SUPPLY DUCTS SHALL BE EXTERNALLY INSULATED WITH MINIMUM 2" THICK FIBERGLASS FLEXIBLE DUCT INSULATION WITH VAPOR BARRIER, MANVILLE CORPORATION, CERTAINTED OR KNAUF. IN ADDITION, INSULATE INTERNALLY WHEN INDICATED. SPIRAL DUCTWORK IS THE ONLY EXCEPTION.
- TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS IN BOTH SUPPLY AND RETURN.

- INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR CONNECTION TO GRILLES AND REGISTERS IN MAXIMUM LENGTHS OF 4'-0" PER BRANCH RUN. FLEXIBLE DUCT SHALL BE CERTAINTED, WIREMOLD OR MANVILLE CORPORATION, FLEX METAL. INSULATED WITH ACOUSTICAL VINYL VAPOR BARRIER, U.L. APPROVED WITH CONDUCTANCE 0.22 AT 75° F.
- ROUND DUCT TAKE-OFFS SHALL BE SPIN-IN OR CONICAL TEE TYPE WITH DAMPERS, NO AIR SCOOPS. ALL ROUND PIPE TO BE CONNECTED WITH SHEET METAL SCREWS AND SUPPORTED WITH 1" METAL STRAP. RECTANGULAR TAKE-OFFS AND BRANCHES SHALL BE 45° ANGLE BOOT OR TEE.
- SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90° TURNS IN LOW PRESSURE MAIN SUPPLY DUCTS.
- INTERNALLY INSULATE AND WEATHERPROOF DUCTWORK EXPOSED TO WEATHER WITH MINIMUM THREE COATS OF FIBERGLASS CLOTH AND EC-800. FINISH WITH COMPATIBLE EXTERIOR PAINT, COLOR AS SELECTED BY ARCHITECT.
- SMOKE/FIRE DAMPERS
- CONTRACTOR SHALL COORDINATE ALL RATED ASSEMBLY'S WITH LATEST EDITION OF ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY TO INSTALL FIRE, COMBINATION FIRE & SMOKE, AND RADIATION DAMPERS IN RATED ASSEMBLY'S.
- FIRE AND SMOKE DAMPERS SHALL BE U.L. LISTED BY RUSKIN OR EQUAL RATED IN ACCORDANCE WITH THE ASSEMBLY IN WHICH DAMPER IS INSTALLED. INSTALL IN ACCORDANCE WITH APPLICABLE CODES AND DAMPER LISTING. DAMPERS SHALL BE DYNAMIC TYPE.
- FIRE DAMPERS AND CEILING DAMPERS MAY BE FUSIBLE LINK TYPE.
- SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE ELECTRIC MOTOR OPERATED, REMOTE RESETTABLE TYPE. COORDINATE DAMPER MOTOR VOLTAGE WITH SMOKE DETECTOR BY DIVISION 16, PROVIDE CONTROL VOLTAGE TRANSFORMER IF REQUIRED.
- CONTRACTOR SHALL INSTALL REQUIRED ACCESS DOORS TO EACH FIRE DAMPER AND LABEL ACCORDINGLY.
- AIR DEVICES
- AIR DEVICES SHALL BE TITUS OR METALARE COMMERCIAL TYPE WITH FRAME TYPE SUITABLE FOR CEILING FINISH. ALL CEILING DIFFUSERS WITHIN A SPACE SHALL HAVE UNIFORM FACE DIMENSIONS UNLESS OTHERWISE NOTED. SEE DRAWINGS FOR OTHER REQUIREMENTS.
- CEILING DIFFUSERS SHALL BE SQUARE LOUVER TYPE WITH OPPOSED BLADE DAMPERS, ALUMINUM CONSTRUCTION, OFF WHITE FINISH, SIZES AS SHOWN ON DRAWINGS.
- SUPPLY AIR REGISTERS SHALL BE HORIZONTAL FACE TYPE WITH OPPOSED BLADE DAMPERS, OFF WHITE FINISH, ALUMINUM, SIZES AS SHOWN ON DRAWINGS.
- CEILING RETURN AIR AND EXHAUST GRILLES SHALL BE 2" X 2" EGGORATE TYPE WITH OFF-WHITE FINISH, ALUMINUM, SIZES AS SHOWN ON DRAWINGS.
- SIDEWALL RETURN AIR GRILLES SHALL BE HORIZONTAL FACE TYPE ALUMINUM (STEEL CONSTRUCTION FOR GRILLES NEAR FLOOR), OFF-WHITE FINISH OR AS SPECIFIED BY OWNER, SIZE AS SHOWN ON DRAWINGS.
- AIR DEVICES IN CEILINGS NOT EASILY ACCESSIBLE SHALL HAVE CABLE-OPERATED ACTUATED DAMPERS OR BALANCING DAMPERS AT THE AIR DEVICE.
- LOUVERS AND DAMPERS
- INTAKE AND RELIEF AIR LOUVERS SHALL BE AMERICAN WARMING, RUSKIN, LOUVERS AND DAMPERS OR VENT PRODUCTS, 6" DEEP "STORMPROOF", DRAINABLE DESIGN, FABRICATED OF EXTRUDED ALUMINUM. LOUVER SHALL BE SUPPLIED WITH ALUMINUM BIRD SCREEN IN A REMOVABLE FRAME AND WITH PRIMER FINISH FOR PAINTING TO ARCHITECT'S SPECIFICATIONS. SEE DRAWINGS FOR SIZES. LOUVERS SHALL BE AMCA RATED. WATER PENETRATION SHALL NOT EXCEED 0.01 OZ./S.F. PER MINUTES AT 1,000 FPM WITH WATER FLOW AT 0.25 GPM.
- DAMPERS SHALL BE AMERICAN WARMING, RUSKIN, LOUVERS AND DAMPERS OR VENT PRODUCTS, ELECTRIC MOTORIZED DAMPER OF EXTRUDED ALUMINUM. DAMPER SHALL BE LOW LEAKAGE TYPE, RUSKIN CD-50 OR EQUAL.
- MANUAL VOLUME DAMPERS SHALL BE INSTALLED IN AREAS ACCESSIBLE FOR BALANCING. IF ACCESS IS NOT AVAILABLE VIA ACCESS DOORS OR REMOVABLE CEILING TILE, PROVIDE CABLE OPERATED DAMPER WITH CABLE INSIDE AIRSTREAM OR OUTSIDE AIRSTREAM.
- FLUES AND VENTS
- CONTRACTOR SHALL FURNISH AND INSTALL ALL FLUES AND VENTS. FLUES AND VENTS SHALL BE U.L. LISTED DOUBLE WALL TYPE, "B" OR PVC FOR CONDENSING FURNACES PER MANUFACTURER WITH SIZES AS INDICATED ON DRAWINGS.
- CONSTRUCTION AND HEIGHT OF FLUE ABOVE ROOF SHALL CONFORM TO REQUIREMENTS OF NFPA 54 AND LOCAL CODES.
- PAINTING
- ALL EQUIPMENT LOCATED OUTDOORS SHALL BE FURNISHED WITH FACTORY FINISH. CONTRACTOR SHALL TOUCH UP ANY SCRATCHES OR CHIPS IN ORIGINAL FINISH WITH FACTORY TOUCH-UP PAINT.
- PAINT INSIDE OF DUCTS VISIBLE TO VIEW WITH FLAT BLACK PAINT.
- EQUIPMENT OR DEVICES INSTALLED AND SCRATCHED SHALL BE PAINTED USING MANUFACTURERS TOUCH-UP PAINT OR REPLACED WITH NEW.
- SLEEVES
- PROVIDE 18 GAGE SLEEVING AT MASONRY WALLS, ETC.
- SEAL ALL PENETRATIONS OF RATED PARTITIONS WITH U.L. LISTED FIRE BARRIER MATERIAL.
- CONTROLS
- HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL LOW VOLTAGE CONTROL WIRING AND CONDUIT REQUIRED TO OPERATE THE HVAC EQUIPMENT AS SPECIFIED HEREIN OR AS SHOWN ON DRAWINGS. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. REFER TO DRAWINGS OR SCHEDULE FOR COORDINATION OF EQUIPMENT STARTERS AND SAFETY DISCONNECTS.
- DUCT MOUNTED SMOKE DETECTORS FURNISHED AND INSTALLED ON SUPPLY AND RETURN DUCT FOR ALL UNITS. COORDINATE POWER CONNECTIONS WITH DIVISION 16 IF BUILDING HAS FIRE ALARM SYSTEM; OTHERWISE WIRE TO SHUT-DOWN UNIT IN PRESENCE OF SMOKE.
- MANUFACTURERS CONTROLS SHALL BE COMPATIBLE WITH UNITS AND UNIT CAPABILITIES. VERIFY ALL COOLING AND HEATING STAGES WORK AS INTENDED.
- NATURAL GAS PIPING
- PIPE SHALL BE SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM A53, ASSEMBLED WITH MALLEABLE IRON (ANSI/ASME 816.3) OR FORMED STEEL WELDING FITTINGS. USE WELDING FITTINGS ON 2" AND ABOVE, ON ALL BURIED PIPING, AND ON ALL PIPING FROM GAS METER TO GAS PRESSURE REGULATORS (ON PIPING SYSTEMS ABOVE STANDARD PRESSURE). WELDING SHALL CONFORM TO ANSI/AWS D1.1.
- PIPE BELOW GRADE SHALL BE COATED AND WRAPPED. STRAIGHT LENGTHS SHALL BE FURNISHED WITH FACTORY-APPLIED ELECTRICALLY INSULATING COATING. FITTINGS AND DAMAGED COATING SHALL BE WRAPPED WITH TAPECOAT CT APPLIED IN ACCORDANCE WITH MANUFACTURER'S LATEST PRINTED INSTRUCTIONS. PROVIDE INSULATING FILLINGS (ABOVE GRADE) AT EACH END OF PIPE RUN.
- IF APPROVED BY THE LOCAL GAS UTILITY, PIPE BELOW GRADE SHALL BE DRISCOPIE 6500 OR AS APPROVED POLYETHYLENE TYPE, INSTALLED TO CONFORM TO MANUFACTURER'S RECOMMENDATIONS AND LOCAL UTILITY REQUIREMENTS.
- GAS PRESSURE REGULATORS, WHERE INDICATED, SHALL BE INTERNALLY VENTED TYPE. VENT TO OUTSIDE WHEN APPLICABLE. DO NOT INSTALL ABOVE CEILINGS.
- PROVIDE GAS COCK AND DIRT LEG AT EACH APPLIANCE AND WHERE INDICATED ON DRAWINGS. PROVIDE DIELECTRIC FLANGES AT DISSIMILAR METAL CONNECTIONS AND WHERE INDICATED ON DRAWINGS.
- AFTER COMPLETION OF WORK, AND BEFORE BACKFILLING, IF REQUIRED, THE ENTIRE SYSTEM SHALL BE TESTED TO AN AIR PRESSURE OF 125 PSI FOR A PERIOD OF TWO HOURS AND PROVIDED TIGHT BY INSPECTION. FURNISH RESULTS OF THE TESTS, SIGNED BY THE CONTRACTOR, TO THE ARCHITECT-ENGINEER.
- GREASE HOOD DUCT SYSTEM
- ALL DUCT SYSTEMS SERVING EXHAUST HOODS REMOVING SMOKE OR GREASE-LADEN VAPORS SHALL BE CONSTRUCTED AND SUPPORTED BY STEEL MINIMUM 0.0598 INCH THICKNESS IN ACCORDANCE WITH NFPA 96. ALL SEAM AND JOINTS SHALL BE CONTINUOUS EXTERNAL WELD, LIQUID TIGHT. CLEAN-OUT OPENINGS ON THE SIDES OF DUCT SHALL BE OF SUFFICIENT SIZE TO PERMIT THOROUGH CLEANING OF DUCT AND SHALL HAVE LIQUID TIGHT FITTING DOORS OF SAME THICKNESS AS DUCT. DUCT SIZE SHALL MAINTAIN MINIMUM AIR VELOCITY OF 1500 FT. PER MINUTE.

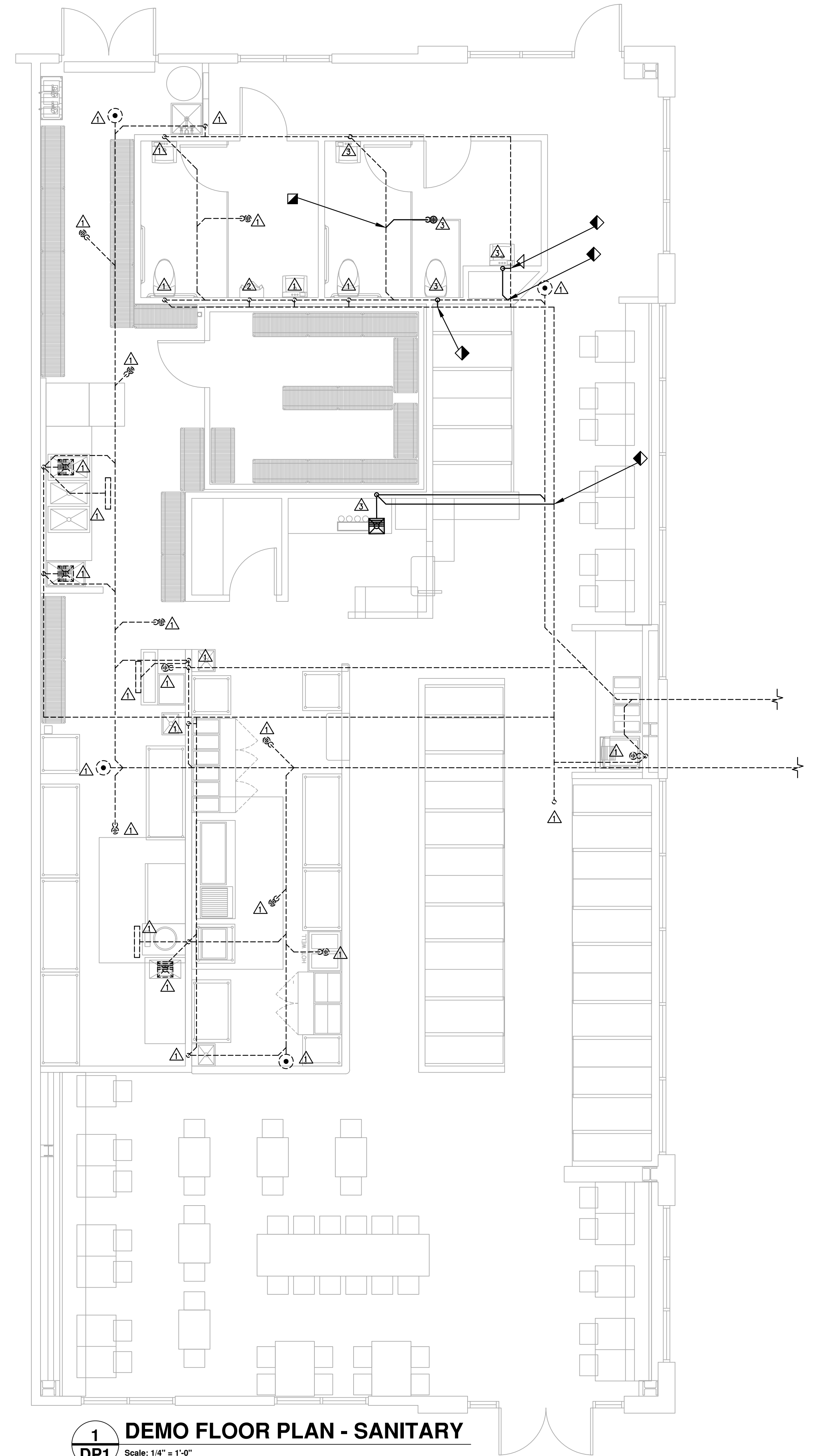
- DUCT SYSTEMS AND GREASE REMOVAL DEVICES SHALL BE PROTECTED BY AUTOMATIC FIRE EXTINGUISHING SYSTEM IN ACCORDANCE WITH STATE AND LOCAL CODES.
- CLEANOUTS SHALL BE EASILY ACCESSIBLE AT THE BASE OF EACH TURN IN DIRECTION AS DEFINED BY CODE.
- FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURERS RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
- HVAC CONTRACTOR SHALL PROVIDE THE SERVICES OF AN INDEPENDENT AABC OR NEBB CERTIFIED TEST AND BALANCE COMPANY TO ASSURE CONFORMANCE WITH DESIGN. CONTRACTOR SHALL SUBMIT WRITTEN TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW. TEST AND BALANCE COMPANY SHALL MAKE NECESSARY ATTEMPTS TO BALANCE SYSTEM WITHIN 10% OF DESIGN.
- CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT. PROVIDE IOM DOCUMENTS FOR ALL EQUIPMENT.
- CONTRACTOR SHALL PROVIDE OWNER WITH AS-BUILT DRAWINGS REFLECTING ACTUAL INSTALL.
- PROVIDE 4" THICK STEEL REINFORCED CONCRETE PAD FOR EXTERIOR EQUIPMENT OF LESS THAN 1,000 LBS. LOCATED ON THE GROUND , AND 6" THICK FOR MORE THAN 1,000 LBS. BOLT AIR CONDITIONING UNIT COMPONENTS TO THE PADS AT MINIMUM 2 CORNERS.
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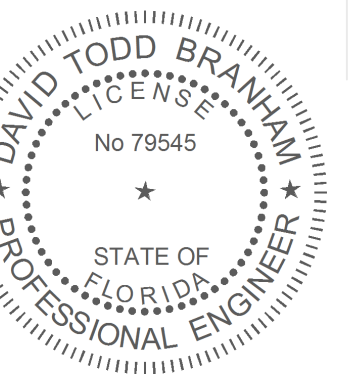
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DP1 **DEMO FLOOR PLAN - DOMESTIC**
Scale: 1/4" = 1'-0"

DEMOLITION NOTES:

- △ EXISTING FIXTURE TO REMAIN.
- △ PLUMBING FIXTURE TO BE REPLACED WITH NEW AS SCHEDULED. REUSE EXISTING PIPING.
- △ EXISTING FIXTURE TO BE DEMOLISHED. DEMOLISH ALL ASSOCIATED PIPING AS SHOWN. VERIFY EXACT LOCATION.
- △ RELOCATE BALANCING VALVE TO NEW LOCATION AS SHOWN ON P1.1.



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DP1 **DEMO FLOOR PLAN - SANITARY**
Scale: 1/4" = 1'-0"



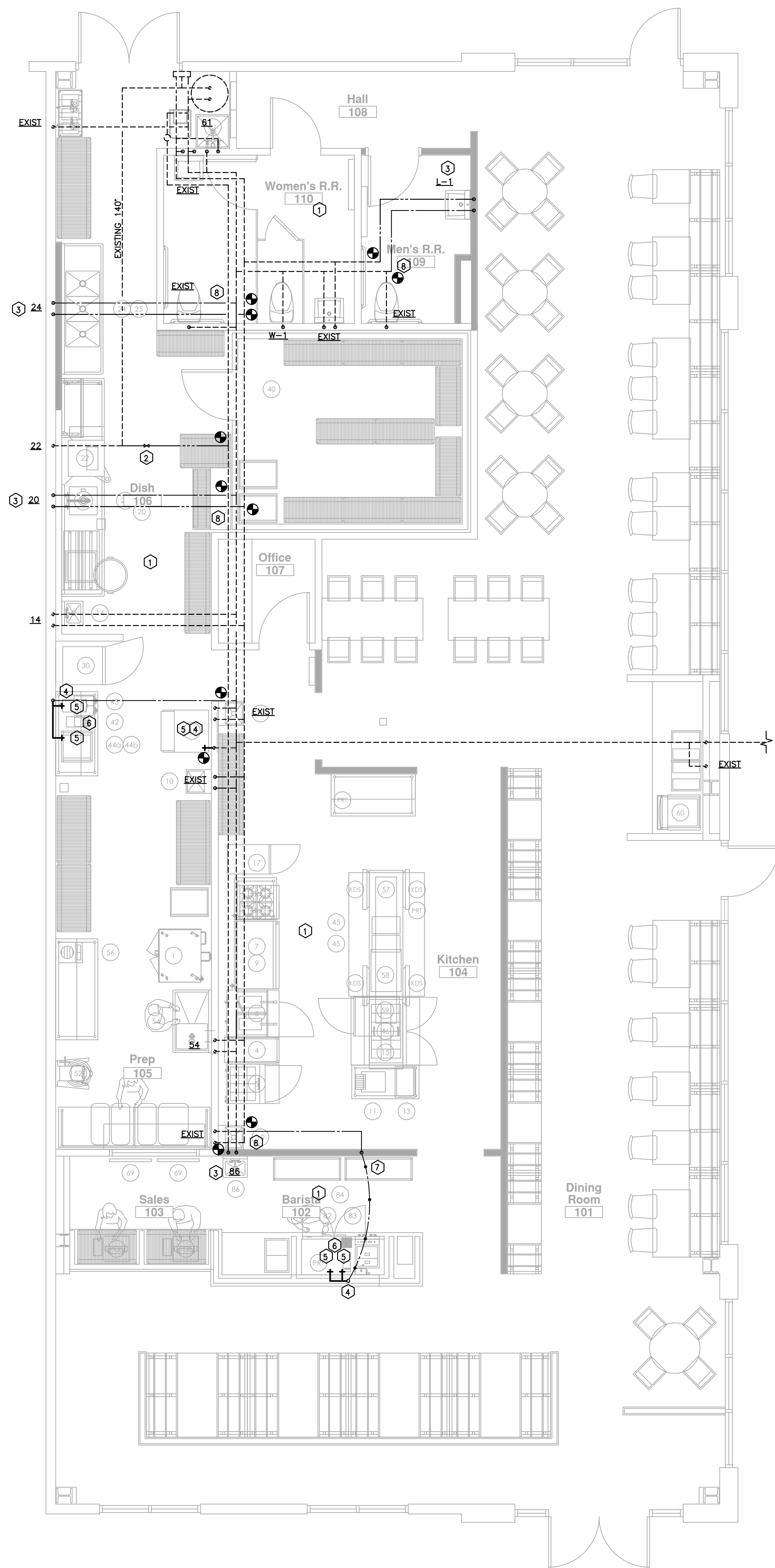
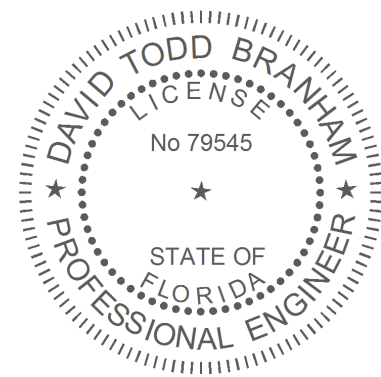
Biscuit Belly
15463 Panama City Beach Pkwy Ste B
Panama City Beach, FL 32413

insomnia DESIGN

15 Sept 2026
MEP Permit

DEMO FLOOR
PLAN - PLUMBING

DP1

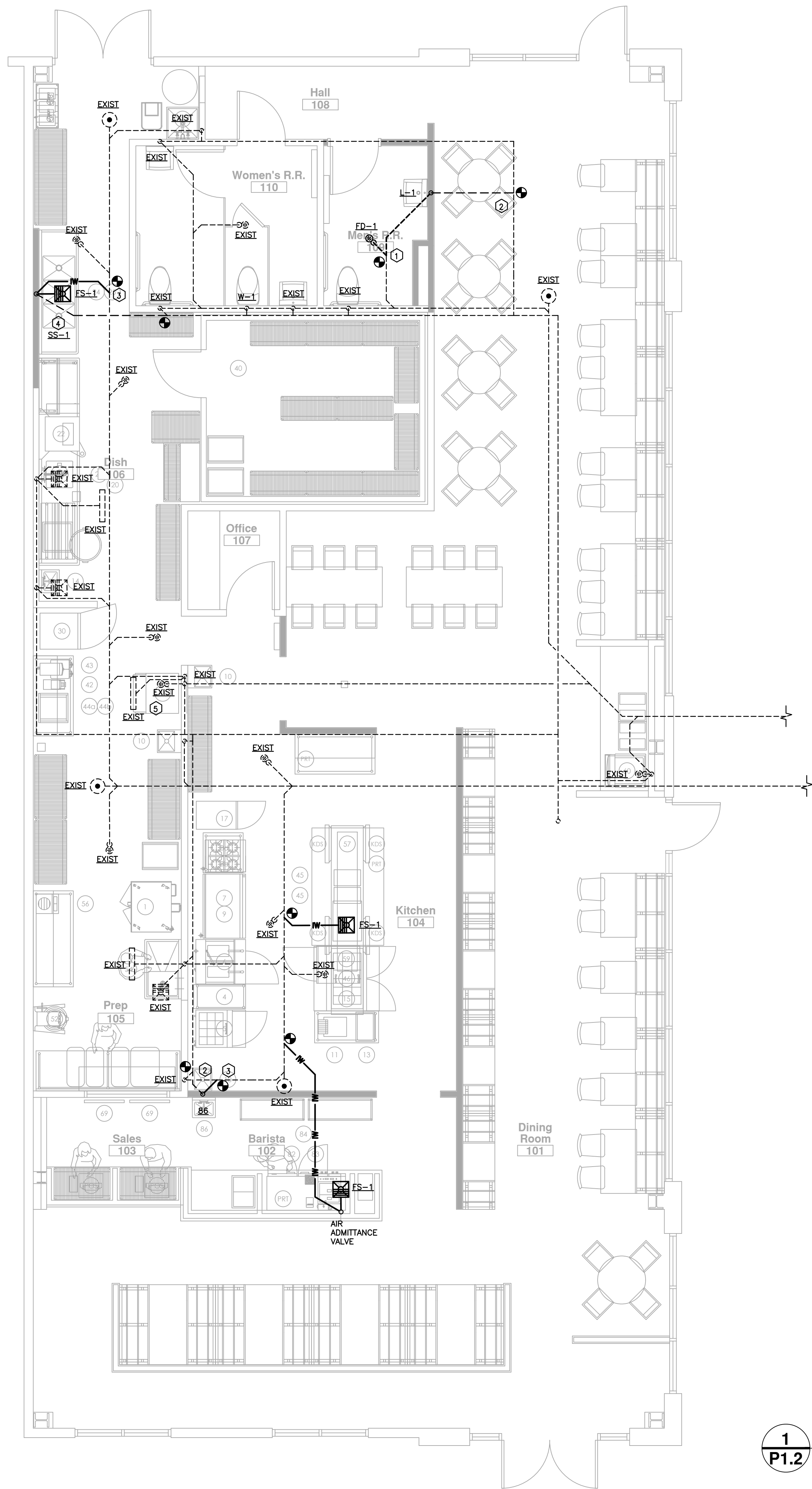
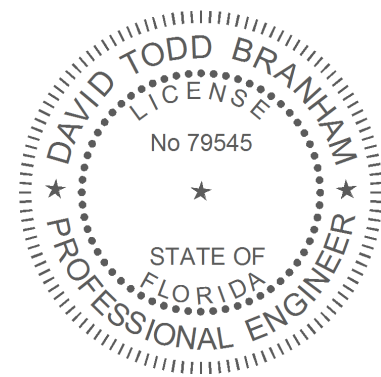


DOMESTIC NOTES:

- CONTRACTOR SHALL COORDINATE ALL PLUMBING REQUIREMENTS WITH OWNER FURNISHED EQUIPMENT FOR A COMPLETE OPERABLE SYSTEM. REFERENCE ARCHITECTURAL KITCHEN SHEETS FOR ADDITIONAL INFORMATION.
- NEW BALANCING VALVE LOCATION. TIE IN NEW HWR AS SHOWN.
- 1/2" CW AND 1/2" HW DOWN TO FIXTURE WITH SHUT-OFF VALVES.
- 1/2" CW TO FILTER.
- 1/2" FILTERED CW TO FIXTURE WITH SHUT-OFF VALVE.
- IN-LINE WATER FILTERS, PRESSURE REDUCING VALVES, AND BACKWATER VALVES REQUIRED FOR EQUIPMENT SHALL BE INSTALLED.
- COUNTER-HEIGHT HALF WALL. ALL WATER LINES TO DROP DOWN IN FULL HEIGHT WALL AND RAN UNDERGROUND.
- CONNECT NEW 1/2" CW AND 1/2" HW TO EXISTING OF EQUAL OR GREATER SIZE.

GENERAL PLUMBING NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL PLUMBING LAYOUTS AND PIPE ROUTING FOR BIDDING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS AND TO CONFIRM SPACE ALLOCATIONS.
- CONTRACTOR SHALL COORDINATE INSTALLATION FOR ALL EQUIPMENT PROVIDED BY OTHERS. USE LATEST EDITION OF VENDOR DRAWINGS FOR MODEL NUMBERS AND REQUIREMENTS FOR A COMPLETE OPERABLE SYSTEM. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR A COMPLETE OPERABLE SYSTEM.
- SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS AND EXACT LOCATIONS OF FIXTURES.
- CONTRACTOR SHALL VERIFY ALL FLOW LINES PRIOR TO ROUGHING IN.
- ALL WORK SHALL CONFORM TO APPLICABLE PLUMBING CODE, LOCAL BUILDING CODES AND STATE HEALTH REGULATIONS HAVING JURISDICTION.
- PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, ELECTRICAL, SPRINKLER AND MECHANICAL DRAWINGS AND COORDINATE HIS WORK WITH ALL OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. AVOID INTERFERENCE WITH ARCHITECTURAL FEATURES, BEAMS, FOOTINGS, WINDOWS, ETC. NOTIFY ARCHITECT OF ANY CONFLICTS.
- CONTRACTOR MAY RE-LAYOUT TO HIS ADVANTAGE CODE EQUIVALENT PLUMBING SO AS TO REDUCE INSTALLATION COSTS OR TO RE-ROUTE TO AVOID CONFLICTS WITH OTHER TRADES AFTER FIRST HAVING RECEIVED THE APPROVAL OF THE ARCHITECT / ENGINEER.
- PLUMBING CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC. OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO ORDERING. ALL EQUIPMENT SHALL BE U.L. AND N.E.M.A. LISTED.
- PLUMBING CONTRACTOR SHALL FURNISH ACCESS PANELS TO BE INSTALLED BY GENERAL CONTRACTOR AS REQUIRED FOR PLUMBING INSTALLATIONS.
- ALL VALVES AND SHOCKSTOPS SHALL BE ACCESSIBLE.
- SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE.
- ALL OPENINGS THROUGH RATED WALLS SHALL BE SEALED WITH AN APPROVED FIREPROOFING TO MAINTAIN THE INTEGRITY OF THE WALL.
- PROVIDE MANUFACTURED COMPATIBLE PIPE HANGERS, RODS AND INSERTS, OR CLAMPS FOR THE PROPER SUPPORT OF ALL PIPING. NO BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING WILL BE PERMITTED.
- PROVIDE SUITABLE BACKING AND SUPPORT FOR ALL PLUMBING FIXTURES.
- OFFSET ALL V.T.R.'S AS REQUIRED WHETHER OR NOT SHOWN ON DRAWINGS.
- ALL V.T.R.'S SHALL BE A MINIMUM OF 10 FT. AND/OR AS REQUIRED BY CODE AWAY FROM A/C INTAKES WHETHER OR NOT SHOWN ON PLANS.
- ALL PIPING SHALL BE LABELED.
- UPON COMPLETION OF THE WORK COVERED BY THIS CONTRACT, FURNISH THE OWNER WITH ONE (1) SET OF REPRODUCIBLE RECORD DOCUMENTS WHICH SHOW ALL PLUMBING INSTALLED UNDER THIS CONTRACT.
- ALL PIPING SUBJECT TO FREEZING SHALL BE WRAPPED WITH HEAT TAPE EQUAL TO RAYCHEM "XL TRACE" AND SHALL BE INSULATED.
- ALL WATER PIPING SHALL BE SLOPED TO LOW POINTS AND PROVIDED WITH DRAINS SO THAT ENTIRE SYSTEM MAY BE DRAINED. ALL DRAINS SHALL BE ACCESSIBLE.
- PROVIDE ALL V.T.R.'S WITH 4 LB. HIGH BOOT LEAD FLASHING.
- ALL WATER PIPING INSTALLED BELOW SLAB SHALL BE TYPE "K" COPPER, 2" OR SMALLER SHALL BE LOOPED (NO JOINTS). LARGER THAN 2" SHALL HAVE SILFOS BRAZED JOINTS.
- DO NOT RUN ANY WATER PIPING ABOVE ELECTRICAL PANELS (COORDINATE WITH ELECTRICAL CONTRACTOR).
- CONTRACTOR SHALL NOT INSTALL ANY DEAD ENDS IN WATER PIPING. WATER HAMMER ARRESTORS AND VALVED WATER CONNECTIONS FOR FUTURE SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO TEE CONNECTION. WATER HAMMER ARRESTORS SHALL BE INSTALLED ABOVE CEILING FOR ACCESS PURPOSES.



SANITARY NOTES:

- 1 TIE NEW SANITARY INTO EXISTING OF EQUAL OR GREATER SIZE. FIELD VERIFY EXACT LOCATION.
- 2 TIE NEW VENT INTO EXISTING OF EQUAL OR GREATER SIZE. FIELD VERIFY EXACT LOCATION.
- 3 TIE NEW GREASE INTO EXISTING OF EQUAL OR GREATER SIZE. FIELD VERIFY EXACT LOCATION OF EXISTING GREASE TRAP AND PIPING.
- 4 3-COMPARTMENT SINKS SHALL DISCHARGE (EACH COMPARTMENT) INDEPENDENTLY OF EACH OTHER INTO FLOOR SINK WITH AIR GAP. ROUTE TIGHT TO WALL.
- 5 DRAIN ICE MACHINE TO HUB DRAIN WITH AIR-GAP.

GENERAL PLUMBING NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL PLUMBING LAYOUTS AND PIPE ROUTING FOR BIDDING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS AND TO CONFIRM SPACE ALLOCATIONS.
- 2. CONTRACTOR SHALL COORDINATE INSTALLATION FOR ALL EQUIPMENT PROVIDED BY OTHERS. USE LATEST EDITION OF VENDOR DRAWINGS FOR MODEL NUMBERS AND REQUIREMENTS FOR A COMPLETE OPERABLE SYSTEM. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR A COMPLETE OPERABLE SYSTEM.
- 3. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS AND EXACT LOCATIONS OF FIXTURES.
- 4. CONTRACTOR SHALL VERIFY ALL FLOW LINES PRIOR TO ROUGHING IN.
- 5. ALL WORK SHALL CONFORM TO APPLICABLE PLUMBING CODE, LOCAL BUILDING CODES AND STATE HEALTH REGULATIONS HAVING JURISDICTION.
- 6. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, ELECTRICAL, SPRINKLER AND MECHANICAL DRAWINGS AND COORDINATE HIS WORK WITH ALL OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. AVOID INTERFERENCE WITH ARCHITECTURAL FEATURES, BEAMS, FOOTINGS, WINDOWS, ETC. NOTIFY ARCHITECT OF ANY CONFLICTS.
- 7. CONTRACTOR MAY RE-LAYOUT TO HIS ADVANTAGE CODE EQUIVALENT PLUMBING SO AS TO REDUCE INSTALLATION COSTS, OR TO RE-ROUTE TO AVOID CONFLICTS WITH OTHER TRADES AFTER FIRST HAVING RECEIVED THE APPROVAL OF THE ARCHITECT / ENGINEER.
- 8. PLUMBING CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC. OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO ORDERING. ALL EQUIPMENT SHALL BE U.L. AND N.E.M.A. LISTED.
- 9. PLUMBING CONTRACTOR SHALL FURNISH ACCESS PANELS TO BE INSTALLED BY GENERAL CONTRACTOR AS REQUIRED FOR PLUMBING INSTALLATIONS.
- 10. ALL VALVES AND SHOCKSTOPS SHALL BE ACCESSIBLE.
- 11. SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE.
- 12. ALL OPENINGS THROUGH RATED WALLS SHALL BE SEALED WITH AN APPROVED FIREPROOFING TO MAINTAIN THE INTEGRITY OF THE WALL.
- 13. PROVIDE MANUFACTURED COMPATIBLE PIPE HANGERS, RODS AND INSERTS, OR CLAMPS FOR THE PROPER SUPPORT OF ALL PIPING. NO BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING WILL BE PERMITTED.
- 14. PROVIDE SUITABLE BACKING AND SUPPORT FOR ALL PLUMBING FIXTURES.
- 15. OFFSET ALL V.T.R.'S AS REQUIRED WHETHER OR NOT SHOWN ON DRAWINGS.
- 16. ALL V.T.R.'S SHALL BE A MINIMUM OF 10 FT. AND/OR AS REQUIRED BY CODE AWAY FROM A/C INTAKES WHETHER OR NOT SHOWN ON PLANS.
- 17. ALL PIPING SHALL BE LABELED.
- 18. UPON COMPLETION OF THE WORK COVERED BY THIS CONTRACT, FURNISH THE OWNER WITH ONE (1) SET OF REPRODUCIBLE RECORD DOCUMENTS WHICH SHOW ALL PLUMBING INSTALLED UNDER THIS CONTRACT.
- 19. ALL PIPING SUBJECT TO FREEZING SHALL BE WRAPPED WITH HEAT TAPE EQUAL TO RAYCHEM "XL TRACE" AND SHALL BE INSULATED.
- 20. ALL WATER PIPING SHALL BE SLOPED TO LOW POINTS AND PROVIDED WITH DRAINS SO THAT ENTIRE SYSTEM MAY BE DRAINED. ALL DRAINS SHALL BE ACCESSIBLE.
- 21. PROVIDE ALL V.T.R.'S WITH 4 LB. HIGH BOOT LEAD FLASHING.
- 22. ALL WATER PIPING INSTALLED BELOW SLAB SHALL BE TYPE "K" COPPER, 2" OR SMALLER SHALL BE LOOPED (NO JOINTS). LARGER THAN 2" SHALL HAVE SILFOS BRAZED JOINTS.
- 23. DO NOT RUN ANY WATER PIPING ABOVE ELECTRICAL PANELS (COORDINATE WITH ELECTRICAL CONTRACTOR).
- 24. CONTRACTOR SHALL NOT INSTALL ANY DEAD ENDS IN WATER PIPING. WATER HAMMER ARRESTORS AND VALVED WATER CONNECTIONS FOR FUTURE SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO TEE CONNECTION. WATER HAMMER ARRESTORS SHALL BE INSTALLED ABOVE CEILING FOR ACCESS PURPOSES.

PLUMBING SPECIFICATIONS:

PART 1:

GENERAL

1. MATERIALS AND INSTALLATION SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS.
2. OBTAIN AND PAY FOR ALL REQUIRED PERMITS, INSPECTION FEES, TAPPING FEES, CONNECTION CHARGES, AND UTILITY COMPANY SERVICE CHARGES.
3. INSTALLATION SHALL BE DONE IN A NEAT AND PROFESSIONAL MANNER. PART

PART 2:

PRODUCTS

1. ALL PIPING AND FITTINGS FOR THE DOMESTIC WATER SYSTEM SHALL BE CERTIFIED BY THE UNDERWRITERS LABORATORY TO MEET THE ANSI NSF 61 SECTION 9 STANDARD.
2. ALL DOMESTIC WATER PIPING INSIDE THE BUILDING ABOVE SLAB SHALL BE TYPE "L" HARD COPPER.
3. DOMESTIC WATER PIPING BELOW SLAB AND OUTSIDE SHALL BE TYPE "K" SOFT SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB.
4. COPPER PIPE FITTINGS SHALL BE SWEATED JOINT, WROUGHT COPPER, SWEEP PATTERN FITTINGS, SOLDERED USING 95-5 LEAD-FREE SOLDER.
5. ALL SANITARY WASTE AND VENT PIPING INSIDE AND UNDERSLAB TO 5'-0" OUTSIDE THE BUILDING SHALL BE SCHEDULE 40 PVC, DWV OR SERVICE WEIGHT CAST IRON WITH DRAINAGE FITTINGS. OUTSIDE PVC PIPING 5'-0" FROM BUILDING SHALL BE SDR-35 OR D-3034.
6. JOINT FOR PVC PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB TO 5'-0" OUTSIDE THE BUILDING AND NEOPRENE PUSH-ON TYPE JOINTS OUTSIDE 5'-0" FROM THE BUILDING. JOINTS FOR CAST IRON PIPE SHALL BE NO-HUB TYPE ABOVE, SLAB ON GRADE, AS MANUFACTURED BY CLAMP-ALL OR ANKO HUSKY. CAST IRON SOIL PIPING INSTITUTE NO-HUB, DOUBLE BAND CONNECTORS SHALL NOT BE ALLOWED. JOINTS FOR CAST IRON PIPE BELOW SLAB OR GRADE SHALL BE NEOPRENE PUSH-ON TYPE.
7. HANGERS: PIPE SIZES 1/2" TO 1-1/2": ADJUSTABLE WROUGHT STEEL LOOP (COPPER, ELECTROPLATE IF APPLICABLE).
8. HANGERS: PIPE SIZES 2" AND UP: ADJUSTABLE WROUGHT STEEL CLEVIS (COPPER, ELECTROPLATE IF APPLICABLE).
9. MULTIPLE OR TRAPEZE HANGERS: STEEL CHANNELS WITH WELDED SPACERS AND HANGER RODS.
10. PROVIDE STEEL HANGER RODS, THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUS THREADED AS REQUIRED.
11. INSULATE DOMESTIC COLD WATER, HOT WATER WITH 1" THICK FIBERGLASS INSULATION WITH MOLDED FIBERGLASS VAPOR AS MANUFACTURED BY MANVILLE CORPORATION, OWENS-CORNING, KNAUF, OR CERTAINTED. INSULATE DOMESTIC HOT AND COLD WATER PIPING IN WALLS AND CHASSES BEHIND FIXTURES WITH 1/2" THICK FIBERGLASS INSULATION.
12. INSULATE ALL DOMESTIC WATER PIPING BELOW SLAB AND TO 5'-0" OUTSIDE THE BUILDING WITH 1/2" ARMAFLEX.
13. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NO GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED.
14. CONCRETE ANCHORS (WEDGE ANCHORS) SHALL BE ZINC-PLATED CARBON STEEL WEDGE ANCHORS AVAILABLE IN ANCHOR/DRILL SIZES 1/4" TO 3/4" AND LENGTHS OF 1-3/4" THROUGH 12", MEETING U.S. GOVERNMENT C.S.A. SPECIFICATIONS FF-S-325 GROUP II, TYPE 4, CLASS 1, FOR FASTENING PLUMBING SYSTEMS TO CONCRETE AND PIPE HANGING. ITW RAMSET/RED HEAD BRAND OR APPROVED EQUAL.
15. ACCEPTABLE FIXTURE MANUFACTURERS
- A. NO OTHER MANUFACTURER SUBSTITUTIONS SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER FIVE (5) DAYS BEFORE BIDDING.
- B. CONTRACTOR SHALL PROVIDE FAUCETS AND FITTINGS THAT ARE CERTIFIED BY UNDERWRITERS LABORATORY TO MEET THE ANSI NSF 61, SECTION 9 STANDARD.
- C. FIXTURES SHALL BE MOUNTED RIGID TO WALLS AND FLOOR.
- D. FIXTURES: ELJER, AMERICAN STANDARD OR KOHLER.
- E. FITTINGS: SYMMONS, CHICAGO FAUCET CO.
- F. FLUSH VALVES: SLOAN VALVE COMPANY, ZURN, OR DELANEY (IF MODIFIED TO BE NON-HOLD OPEN)
- G. STAINLESS STEEL SINKS: JUST OR ELKAY.
- H. SERVICE BASINS: STERN WILLIAMS, FIAT, OR CREATIVE INDUSTRIES.
- I. WATER HEATERS: LOCHINVAR, STATE, RUUD, OR A. O. SMITH.
- J. TOILET SEATS: CHURCH, OLSONITE, BENEKE OR BEMIS.
- K. DRAIN, HYDRANTS, CARRIERS AND SHOCK ABSORBERS: J. R. SMITH, ZURN, WADE, OR JOSAM.
- L. WATER HEATER PANS: SHAMROCK OR TREND MFG. OF AMERICA.
- M. REDUCED PRESSURE BACKFLOW PREVENTION: FEBCO, HERSEY, WATTS, OR WILKINS.

PART 3:

EXECUTION

1. EXCAVATION, BACKFILLING AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH O.S.H.A. AND EXISTING SAFETY STANDARDS.
- A. PROVIDE SHORING AND CLEANING NECESSARY TO KEEP TRENCHES IN WORKING CONDITIONS, INCLUDING PUMPING OUT WATER.
- B. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO AT LEAST 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LESTONE. GRAVEL SHALL BE SCOOPED OUT UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.
- C. IN MOSTLY EARTH OR SAND MATERIAL, THE LAST 6" OF EXCAVATION SHALL BE DONE BY HAND. TRENCH BOTTOM SHALL BE SCOOPED OUT AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.
- D. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". THE REST OF THE FILL UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION. DEBRIS: WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A ELASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE DONE IN LAYERS OF NOT MORE THAN 8" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.
- E. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
2. EXPOSED HOT AND COLD WATER TRIM IN FINISHED AREAS SHALL BE CHROME FINISHED.
3. ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODE RECOMMENDATIONS. SUPPORTS SHALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR ALL STATIC AND OPERATIONAL CONDITIONS OF THE VARIOUS SYSTEMS AND SHALL NOT BE SUBJECT TO ELECTROLYTIC ACTION. THIS SHALL BE ACCOMPLISHED BY USING THE SUMMER SYSTEM, THE POSIFIX, STAKFIX, PIPEFIX OR CHANNEL.
4. SHOCK ABSORBERS SHALL BE INSTALLED ON ALL HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR QUICK CLOSING VALVES SUCH AS DISHWASHERS, CLOTHES WASHERS, AND THEIR EQUIPMENT, BETWEEN THE LAST TWO FIXTURES. THIS SHALL BE ACCOMPLISHED BY USING THE SUMMER SYSTEM, THE POSIFIX, STAKFIX, PIPEFIX OR CHANNEL.

5. SANITARY WASTE AND VENT, RAINWATER LEADERS, AND STORMWATER PIPING SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR PIPE LARGER THAN 3" IN DIAMETER.

6. SUPPORT HORIZONTAL PIPING AS FOLLOWS:

MAXIMUM NOMINAL PIPE SIZE (IN.)	MINIMUM DISTANCE BETWEEN SUPPORT (FT.)	HANGER ROD DIAMETER (IN.)
1/2	6	3/8
3/4 TO 1-1/2	6	3/8
2 TO 2-1/2	10	3/8
3 TO 4	12	1/2 TO 5/8
6	14	3/4

7. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.
8. HANGERS SHALL BE ATTACHED TO STRUCTURAL STEEL WORK BY CLAMPING OR OTHER APPROVED METHODS, EXCEPT THAT STRUCTURAL WORK SHALL NOT BE DRILLED AND PUNCHED.
9. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT AND LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS.
10. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE INSULATION AS THE PIPING OR WITH HYDRAULIC SETTING CEMENT. BUILT UP TO THE SAME THICKNESS AS LINES. COVER SHALL BE SAME AS ADJACENT PIPING OR PVC PREFORMED JACKET.
11. SEAL ALL PENETRATIONS OF RATED PARTITIONS WITH U.L. RATED FIRE BARRIER MATERIAL.
12. AIR ADMITTANCE VALVES SHALL NOT BE ALLOWED ON SANITARY WASTE AND VENT SYSTEMS.
13. THE SYSTEM TESTS DESCRIBED HEREIN ARE MINIMUM REQUIREMENTS. HOWEVER, ADDITIONAL TESTS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION SHALL ALSO BE PERFORMED.
14. DOMESTIC WATER PIPING SHALL BE TESTED AT 125 PSI. IN ADDITION, PIPING SHALL BE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
15. THE DOMESTIC WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
16. THE SANITARY WASTE SYSTEMS SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.
17. THE ENTIRE SANITARY WASTE SYSTEMS SHALL BE TESTED AGAINST A HEAD PRESSURE OF 10' TSH, FOR A MINIMUM OF 8 HOURS WITHOUT LEAKAGE.

PLUMBING FIXTURE SCHEDULE							
SYMBOL	FIXTURE	DESCRIPTION	SOIL	WASTE	VENT	HW	CW
<u>W-1</u>	WATER CLOSET	BRADENTON SHBD225WH ELONGATED FLOOR MOUNTED TANK TYPE (1.28 GAL. FLUSH) WITH CENTOCO 1500STSCC OPEN FRONT WHITE SEAT WITH COVER, AND WATTS MODEL 890-003LK ANGLE SUPPLY STOP.	4"	-	2"	-	1"
<u>L-1</u>	LAVATORY	KOHLER #K-2031 'GREENWICH', SIGNATURE HARDWARE LEXIA SINGLE-HOLE LEVER FAUCET, MCGUIRE #155WC C.P. OFFSET GRID DRAIN W/ STRAINER & 17 GA. TAILPIECE, #8872 17 GA. C.P. BRASS "P" TRAP WITH WALL BEND, #H2165LK C.P. SUPPLY WITH LOOSE KEY STOP, CONCEALED ARM CHAIR CARRIER, AND TRUEBRO #103 INSULATION KIT.	-	2"	1-1/2"	1/2"	1/2"
<u>14</u>	OWNER FURNISHED SINK	OWNER FURNISHED EQUIPMENT WITH ALL ACCESSORIES. PROVIDE COMPLETE INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO ARCHITECTURAL PLANS. SINK SHALL HAVE NON-SCALDING DEVICES.	-	2"	1-1/2"	1/2"	1/2"
<u>20</u>	OWNER FURNISHED PRE-RINSE	OWNER FURNISHED EQUIPMENT WITH ALL ACCESSORIES. PROVIDE COMPLETE INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO ARCHITECTURAL PLANS.	-	2" IN-DIRECT	1-1/2"	1/2"	1/2"
<u>22</u>	OWNER FURNISHED DISHWASHER	OWNER FURNISHED EQUIPMENT WITH ALL ACCESSORIES. PROVIDE COMPLETE INSTALL PER MANUFACTURERS RECOMMENDATIONS.	-	2" IN-DIRECT	-	1"	-
<u>24</u>	OWNER FURNISHED 3-COMP	OWNER FURNISHED EQUIPMENT WITH ALL ACCESSORIES. PROVIDE COMPLETE INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO ARCHITECTURAL PLANS. THIS SINK IS FOR FOOD PREP.	-	(3) 2" IN-DIRECT	1-1/2"	1/2"	1/2"
<u>54</u>	OWNER FURNISHED SINK	OWNER FURNISHED EQUIPMENT. PROVIDE COMPLETE INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO ARCHITECTURAL PLANS. THIS SINK IS FOR FOOD PREP.	-	2"	1-1/2"	1/2"	1/2"
<u>61</u>	OWNER FURNISHED SINK	OWNER FURNISHED EQUIPMENT WITH ALL ACCESSORIES. PROVIDE COMPLETE INSTALL PER MANUFACTURERS RECOMMENDATIONS.	-	3"	2"	3/4"	3/4"
<u>86</u>	OWNER FURNISHED SINK	OWNER FURNISHED EQUIPMENT WITH ALL ACCESSORIES. PROVIDE COMPLETE INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO ARCHITECTURAL PLANS. SINK SHALL HAVE NON-SCALDING DEVICES.	-	2"	1-1/2"	1/2"	1/2"

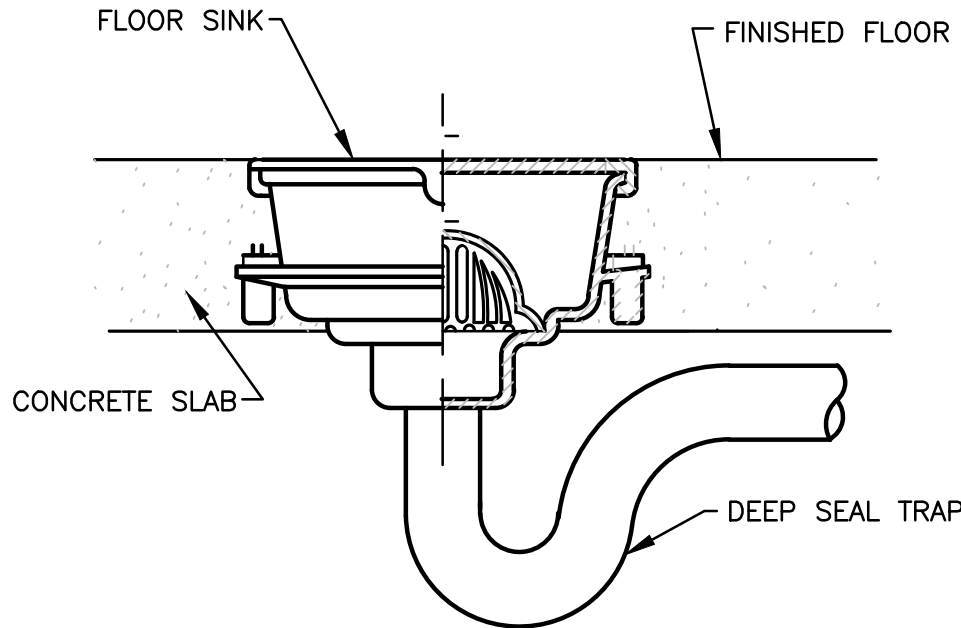
1. WATER CLOSETS SHALL BE PROVIDED WITH A MAXIMUM FLUSHING RATE PER CODE IF MORE RESTRICTED THAN FIXTURE SPECIFIED.
2. PROVIDE SET SCREWS ON ALL ESCUTCHEONS.
3. PROVIDE 3 GPM MAX. FLOW CONTROLS ON ALL SINK FAUCETS AND .5 GPM MAX. FLOW CONTROLS ON ALL LAVATORY FAUCETS.
4. INSULATE ALL TRAPS, CW AND HW SUPPLIES ON HANDICAPPED LAVATORIES AND SINKS WITH TRUEBRO. INC., MODEL #102W & #105W. (UNLESS NOTED OTHERWISE.)
5. MOUNT ALL HANDICAPPED FIXTURES AT HEIGHT AS PER ADA REQUIREMENTS.
6. ALL FIXTURES ARE WHITE OR STAINLESS STEEL UNLESS NOTED OTHERWISE.
7. MOUNT ALL PUBLIC FLUSH VALVES AT A HEIGHT OF 42 INCHES, UNLESS OTHERWISE NOTED.
8. REFER TO ARCH. PLAN FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL FIXTURES.
9. PROPERLY ADJUST ALL AUTOMATIC FAUCETS TO PROVIDE WARM WATER.

MISC. PLUMBING SCHEDULE		
SYMBOL	FIXTURE	DESCRIPTION
<u>FCO</u>	FLOOR CLEANOUT	PVC CLEANOUT WITH SECURED DUCTILE IRON COVER
<u>WCO</u>	WALL CLEANOUT	PVC WALL CLEANOUT FOR DRY OR BLOCK WALL CONSTRUCTION, WITH ACCESS COVER SUITABLE FOR WALL FINISH.
<u>GCO</u>	GRADE CLEANOUT	PVC CLEANOUT WITH TRAFFIC-RATED COVER, SET IN CONCRETE PAD.
<u>FD-1</u>	FLOOR DRAIN	PVC FLOOR DRAIN WITH 6" STRAINER AND SEDIMENT BUCKET
<u>FS-1</u>	FLOOR SINK	PVC FLOOR SINK 12"x12"x6" WITH DOME STRAINER AND SEDIMENT BUCKET.
<u>HD-1</u>	HUB DRAIN	DEEP SEAL P-TRAP WITH 1/2" TRAP PRIMER CONNECTION, MODEL 7222-P050. 3" FIXED AIR GAP WITH 1-1/4" SET SCREW INLET AND 2" NO-HUB OUTLET, MODEL 3955S.
<u>IM</u>	ICE MAKER BOX	PLASTIC ICE MAKER BOX WITH SHUT-OFF VALVE AND BACKWATER VALVE
<u>TD-1</u>	TRENCH DRAIN	SECTIONAL PVC TRENCH DRAIN W/ INSIDE CAULK OUTLET, FLANGE, AND GRATE. PROVIDE W/ 3" OUTLET AND 12" EXTENSION.

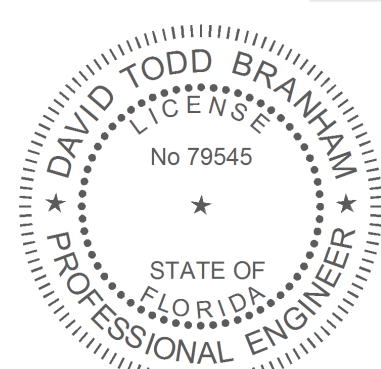
NOTES:

1. PROVIDE CARPET MARKERS FOR ALL FLOOR CLEANOUTS IN CARPETED AREAS.
2. ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS. TRAP PRIMERS SHALL BE LOCATED AT NEAREST LAVATORY OR SINK AND RUN 1/2" TYPE "K" COPPER BELOW SLAB TO FLOOR DRAINS. KITCHEN DRAINS AND SHOWERS ARE THE ONLY EXCEPTION.
3. ALL CLEANOUTS AND FLOOR DRAINS IN TILE FLOOR SHALL BE PROVIDED WITH SQUARE TOP.
4. ALL VENTS THRU ROOF SHALL BE PROVIDED WITH VANDAL PROOF VENT CAPS.
5. PROVIDE VANDAL PROOF SCREWS FOR ALL CLEANOUTS, FLOOR DRAINS.
6. ALL FLOOR SINKS AND HUB DRAINS SHALL BE INSTALLED WITH RIMS 1/2" TO 3/4" ABOVE FINISHED FLOOR AS PER #802.3.2 IPC.

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
-----	SANITARY WASTE
-----	SANITARY VENT
-----	HOT WATER (HW)
-----	HOT WATER RETURN (HWR)
140"	140" HOT WATER (140')
-----	COLD WATER (CW)
-----	COLD WATER (CW) BELOW GRADE
-----	BALL VALVE
F.D.	FLOOR DRAIN
C.O.	CLEAN OUT
F.C.O.	FLOOR CLEANOUT
G.C.O.	GRADE CLEANOUT
W.C.O.	WALL CLEANOUT
V.T.R.	VENT THRU ROOF
WH	WALL HYDRANT
NFWH	NON-FREEZE WALL HYDRANT
DF-1	PLUMBING FIXTURE
R.P.B.P.	REDUCED PRESSURE BACKFLOW PREVENTER
OSCI	OWNER SUPPLIED, CONTRACTOR INSTALLED
●	NEW WORK POINT OF NEW TO EXISTING
◀	DEMOLITION POINT OF DISCONNECT



FLOOR SINK DETAIL



Biscuit Belly

15463 Panama City Beach Pkwy Ste B
Panama City Beach, FL 32413

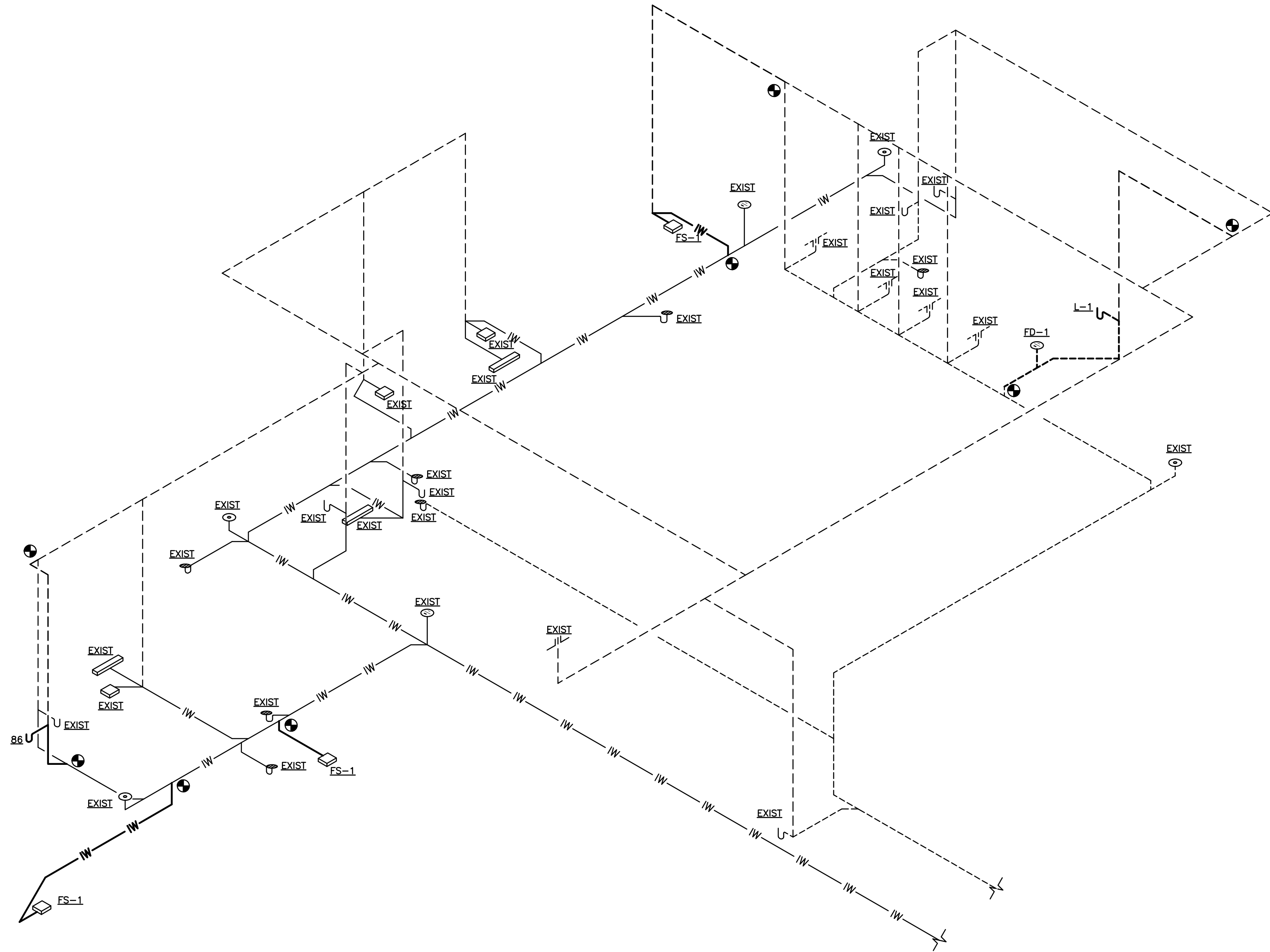
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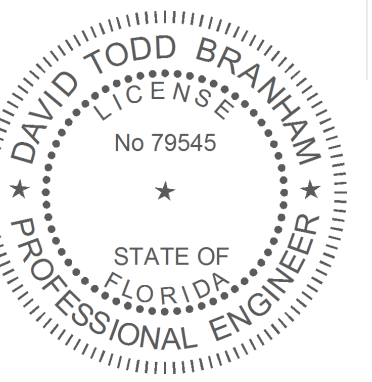
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PLUMBING
SCHEDULES

P2.1



SANITARY RISER



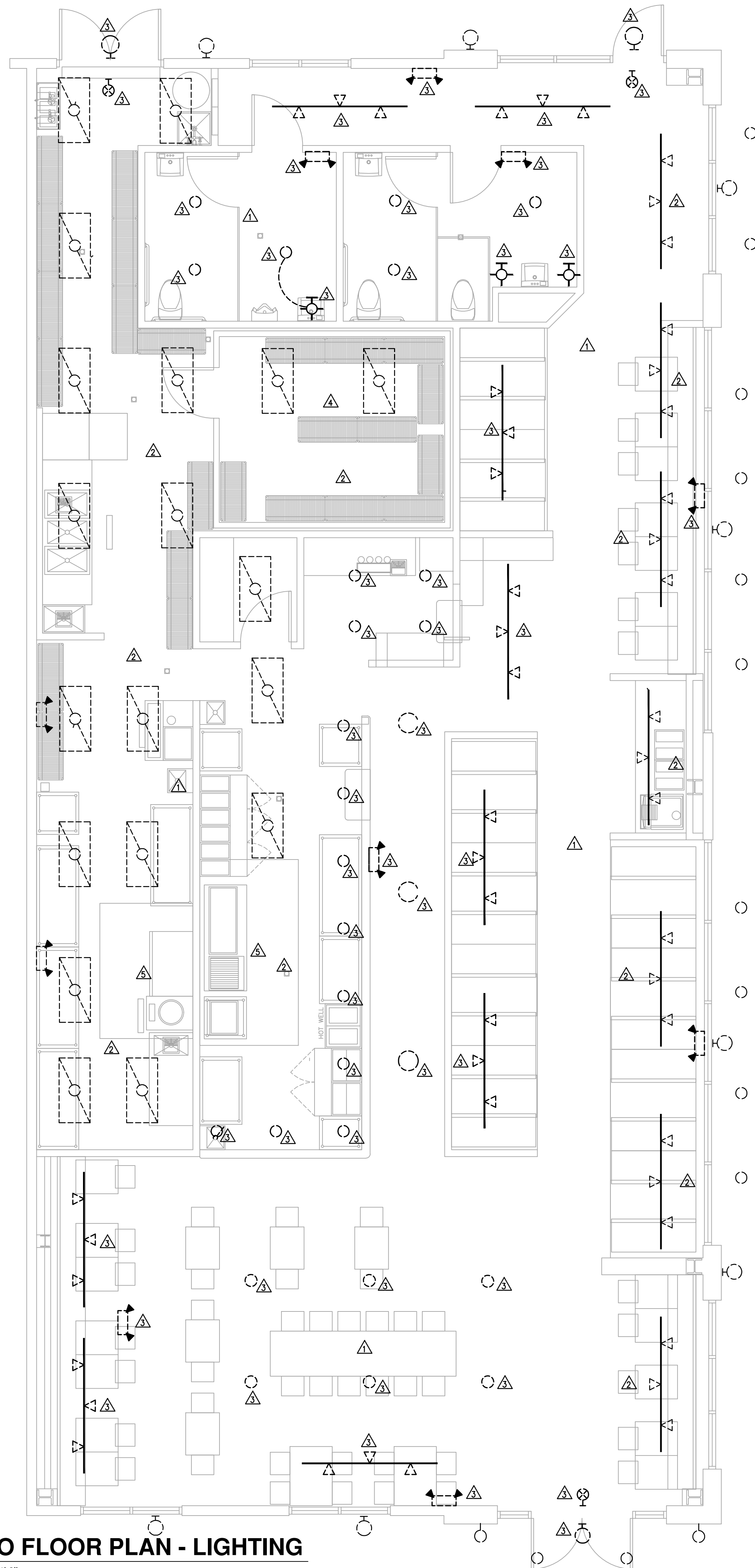
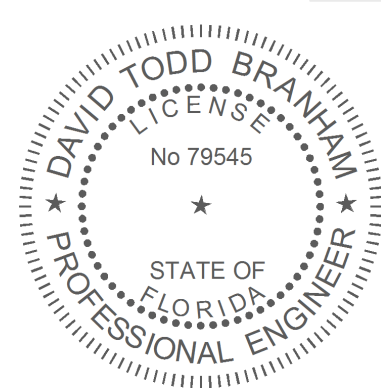
Biscuit Belly
15463 Panama City Beach Pkwy Ste B
Panama City Beach, FL 32413

insomnia DESIGN

15 Sept 2026
MEP Permit

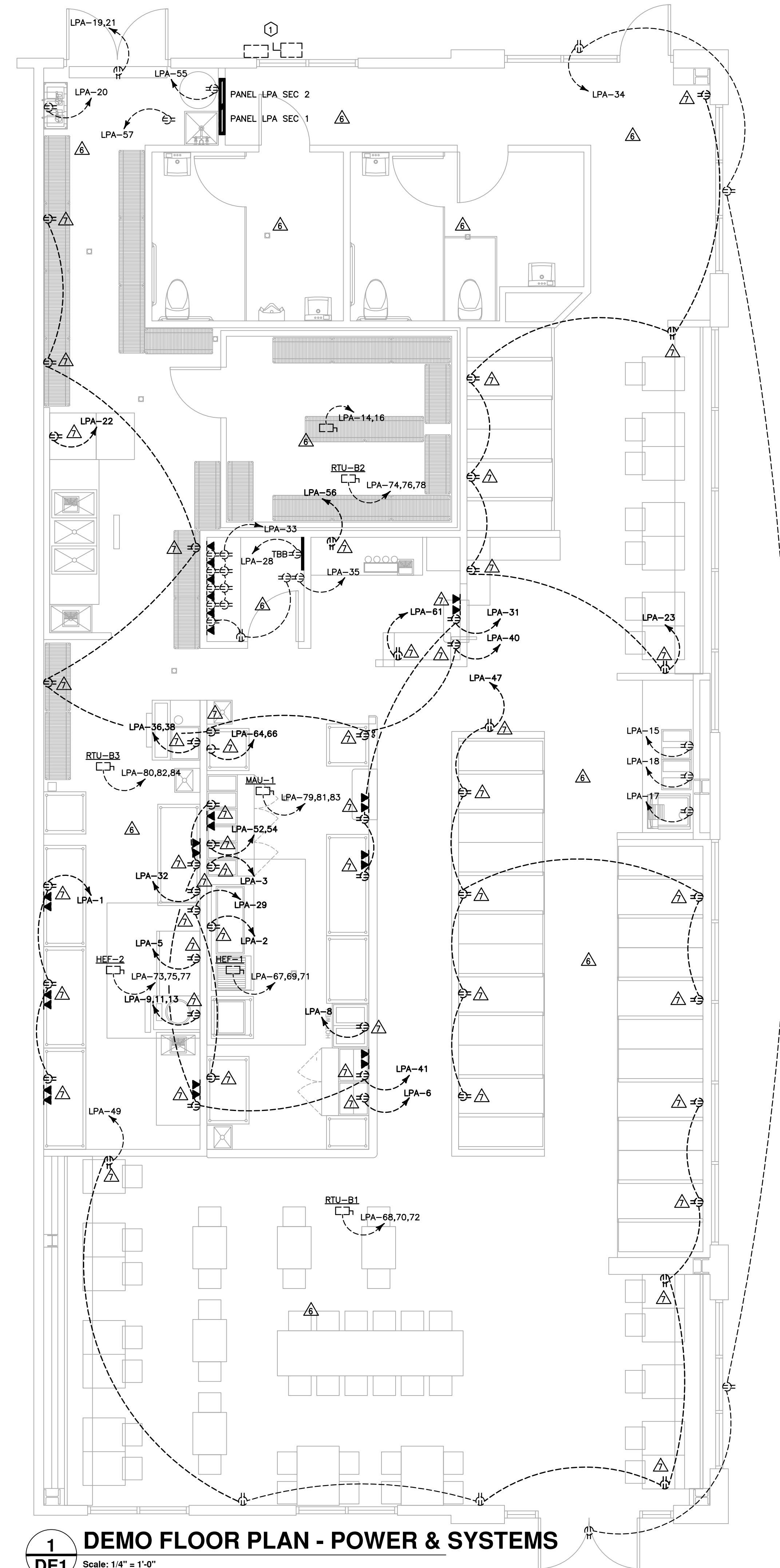
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SPECIFICATIONS

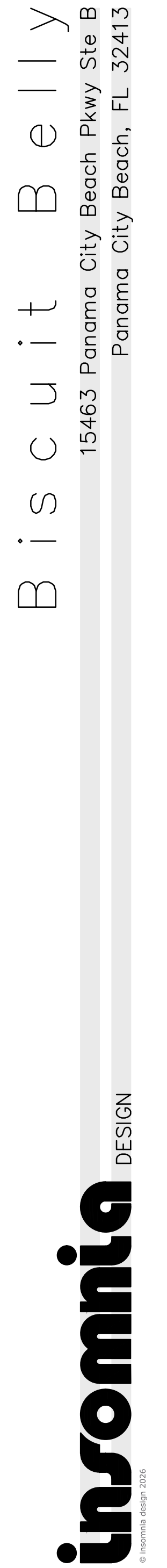
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DEMOLITION NOTES:

- △ CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
- △ EXISTING LIGHT FIXTURES AND CONTROLS SHALL REMAIN IN USE UNLESS OTHERWISE NOTED. FIELD VERIFY EXISTING CIRCUITS.
- △ REMOVE EXISTING LIGHT FIXTURE.
- △ LIGHTING FOR COOLER SHALL BE EXISTING TO REMAIN.
- △ LIGHTING FOR HOODS SHALL BE EXISTING TO REMAIN.
- △ EXISTING POWER SHALL REMAIN IN USE UNLESS OTHERWISE NOTED. VERIFY EXISTING CIRCUIT.
- △ REMOVE EXISTING RECEPTACLE / JUNCTION BOX. TERMINATE CIRCUIT AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR.





① ALL EMERGENCY FIXTURES SHALL BE UNSWITCHED.

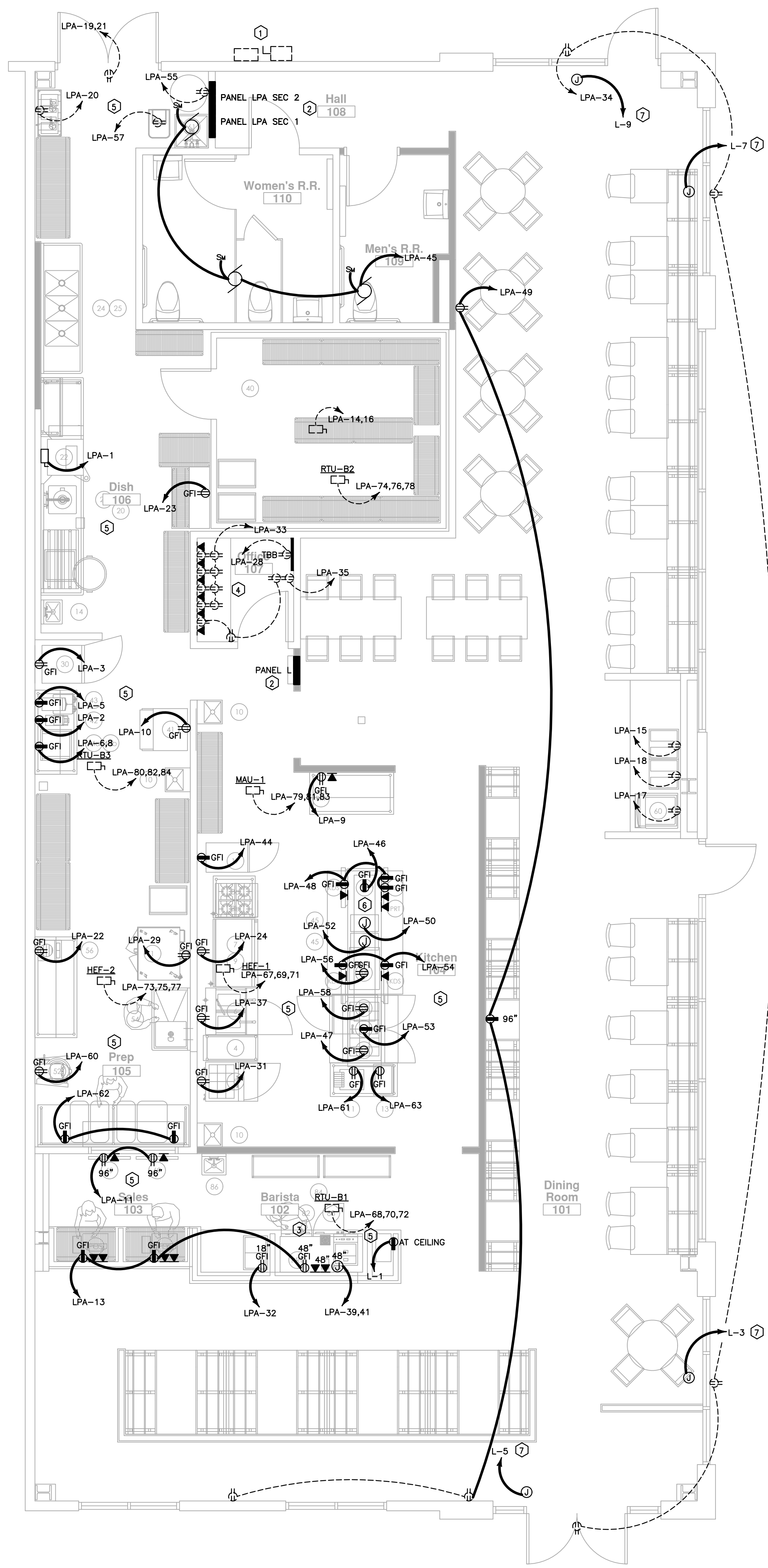
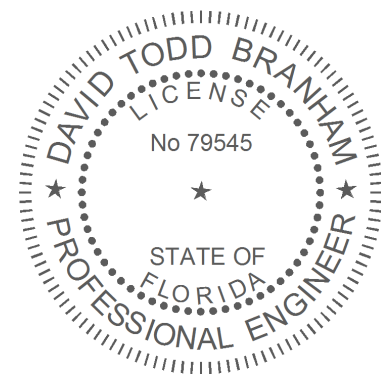
② PROVIDE DIMMER SWITCHES IN OFFICE FOR DINING ROOM LIGHTS AS FOLLOWS:

- * ALL C1 TRACK LIGHTING
- * ALL C2 TRACK LIGHTING
- * ALL B1 PENDANTS
- * ALL B4 PENDANTS

1. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL ELECTRICAL LAYOUTS FOR BIDDING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS AND TO CONFIRM SPACE ALLOCATIONS.
2. CONTRACTOR SHALL COORDINATE INSTALLATION FOR ALL EQUIPMENT PROVIDED BY OTHERS. USE LATEST EDITION OF VENDOR DRAWINGS FOR MODEL NUMBERS AND REQUIREMENTS FOR A COMPLETE OPERABLE SYSTEM. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR A COMPLETE OPERABLE SYSTEM.
3. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS AND EXACT LOCATIONS OF FIXTURES.
4. CONTRACTOR SHALL VERIFY VOLTAGES AVAILABLE PRIOR TO ROUGHING IN.
5. MOUNTING HEIGHTS AS INDICATED ON DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.
6. PANELBOARD AND SAFETY DISCONNECTS SHALL BE EASILY ACCESSIBLE AND MAINTAIN ALL SERVICE CLEARANCE PER NEC.
7. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTER-RELATIONSHIP AND REQUIRED COORDINATION BETWEEN TRADES.
8. ALL WORK SHALL CONFORM TO APPLICABLE NEC, LOCAL BUILDING CODES, AND STATE HEALTH REGULATIONS HAVING JURISDICTION, AND STATE AMENDMENTS TO BUILDING CODE.
9. IN AREAS WHERE ELECTRICAL OUTLETS ARE LOCATED BENEATH A WINDOW AND THE WINDOW PREVENTS ROUTING OF CONDUIT UP THE WALL; CONDUIT SHALL BE ROUTED TO A WALL WHICH ALLOWS CONDUIT TO RISE UP TO CEILING SPACE.
10. ALL CONDUIT ROUTED FROM PANELBOARD TO DISCONNECTS AT EXTERIOR HVAC UNITS OR ANY OTHER EQUIPMENT SHALL BE ROUTED BELOW GRADE. TRANSITION FROM GRADE TO EQUIPMENT TO MAKE A SEALED CONNECTION.
11. ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX COVER, NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4" IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE.
12. ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLEING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SUPPORT WIRES IS NOT ACCEPTABLE.
13. ALL RECEPTACLES LOCATED WITHIN 6"-0" TO THE EDGE SINK OR OTHER WATER SOURCE SHALL BE GFCI TYPE DEVICE IN ACCORDANCE WITH N.E.C 210-8.7. COORDINATE LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
14. COORDINATE EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH DIVISION 23 PRIOR TO ROUGH IN. ADJUST LOCATION OF DISCONNECTING MEANS AND BRANCH CIRCUITRY AS REQUIRED.
15. PRIOR TO PROJECT COMPLETION, ELECTRICAL CONTRACTOR SHALL OBTAIN FINAL SPACE NUMBERS FROM OWNER AND/OR ARCHITECT. TYPEWRITTEN PANELBOARD DIRECTORIES SHALL REFLECT SPACE DESIGNATION OF EACH CIRCUIT. NO EXCEPTIONS.
16. ALL THIN / THIN WIRE SHALL HAVE A FACTORY INSTALLED COLOR CODED OUTER JACKET. CONTRACTOR IS TO NOTE THAT ALL FEEDER CONDUCTORS SHALL HAVE FULL COLOR CODED OUTER JACKET INTEGRAL TO THE CONDUCTOR INSULATION. USE OF COLOR PHASING TAPE IS NOT ALLOWED.
17. ALL RECEPTACLES AND SWITCHES SHALL BE SIDEWIREN, CONTRACTOR MY ELECT TO USE FACTORY TERMINATED MALE / FEMALE QUICK CONNECTS. (P&S "PLUG" OR EQUAL).
18. ALL LOW VOLTAGE SYSTEMS WHICH HAVE UNDERGROUND CONDUIT / CONDUCTORS ROUTED OUTSIDE OF THE BUILDING FOOTPRINT SHALL HAVE LIGHTNING PROTECTION SURGE MODULES LOCATED AT EACH END OF LOW VOLTAGE CABLEING.
19. ALL WIRING DEVICE COVERPLATES SHALL BE HAND LABELED ON BACK OF COVERPLATE. LABELING SHALL BE PERMANENT MARKER, LEGIBLE, AND NOTE PANEL/CIRCUIT NUMBER SERVING DEVICE.
20. ALL EMPTY CONDUITS SHALL HAVE PULLSTRINGS INSTALLED. CAP OFF ALL STUB UP CONDUIT, INSTALL LABEL NOTING LOCATION OF CONDUIT STUB OUT.
21. ALL LOW VOLTAGE CONDUCTORS NOT IN CONDUIT SHALL BE PLENUM RATED. ALL TY-WRAPS SUPPORTING SUCH SHALL BE PLENUM RATED. PROVIDE J-HOOKS AND SUPPORT MEANS AS REQUIRED.
22. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, PLUMBING, SPRINKLER AND MECHANICAL DRAWINGS AND COORDINATE HIS WORK WITH ALL OTHER TRADES FOR POWER REQUIREMENTS AND EQUIPMENT PLACEMENT. AVOID INTERFERENCE WITH ARCHITECTURAL FEATURES, BEAMS, FOOTINGS, WINDOWS, ETC. NOTIFY ARCHITECT OF ANY CONFLICTS.
23. SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE.
24. ALL OPENINGS THROUGH RATED WALLS SHALL BE SEALED WITH AN APPROVED FIREPROOFING TO MAINTAIN THE INTEGRITY OF THE WALL.
25. PROVIDE MANUFACTURED COMPATIBLE PIPE HANGERS, RODS AND INSERTS, OR CLAMPS FOR THE PROPER SUPPORT OF ALL CONDUIT. NO BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING WILL BE PERMITTED.
26. UPON COMPLETION OF THE WORK COVERED BY THIS CONTRACT, FURNISH THE OWNER WITH ONE (1) SET OF REPRODUCIBLE RECORD DOCUMENTS WHICH SHOW ALL ELECTRICAL INSTALLED UNDER THIS CONTRACT.

FLOOR PLAN –
LIGHTING

(E1.1)



POWER & SYSTEMS NOTES:

- EXISTING 400-AMP 120/208 VOLT 3-PHASE SERVICE WITH 400-AMP SERVICE DISCONNECT AND METER WITH NEMA-3R ENCLOSURE AT SERVICE ENTRANCE. FIELD VERIFY EXACT LOCATION.
- NEW 100-AMP SUB-PANEL AT LOCATION SHOWN. PROVIDE NEW CONDUCTORS FROM DISCONNECT.
- SEE 3/A3.3 INTERIOR ELEVATIONS FOR ELECTRICAL LAYOUT AT BARISTA COUNTER. ESPRESSO AND PRINTER SHALL BE ABOVE COUNTER WITH REFRIGERATOR BELOW COUNTER.
- SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR ELECTRICAL LAYOUT AT DESK AREA.
- ALL 15-AMP AND 20-AMP RECEPTACLES IN KITCHEN, DISH, PREP, SALES AREAS ARE TO BE GFI.
- COORDINATE KITCHEN ISLAND AREA POWER REQUIREMENTS WITH SHOP DRAWINGS.
- COORDINATE POWER REQUIREMENTS FOR EXTERIOR SIGNAGE WITH OWNER AND SIGN FABRICATOR DRAWINGS.

GENERAL ELECTRICAL NOTES:

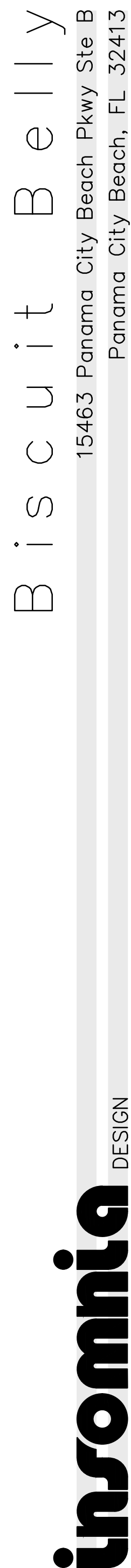
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL ELECTRICAL LAYOUTS FOR BIDDING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS AND TO CONFIRM SPACE ALLOCATIONS.
- CONTRACTOR SHALL COORDINATE INSTALLATION FOR ALL EQUIPMENT PROVIDED BY OTHERS. USE LATEST EDITION OF VENDOR DRAWINGS FOR MODEL NUMBERS AND REQUIREMENTS FOR A COMPLETE OPERABLE SYSTEM. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR A COMPLETE OPERABLE SYSTEM.
- SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS AND EXACT LOCATIONS OF FIXTURES.
- CONTRACTOR SHALL VERIFY VOLTAGES AVAILABLE PRIOR TO ROUGHING IN.
- MOUNTING HEIGHTS AS INDICATED ON DRAWINGS SHALL BE FROM THE FINISHED FLOR TO THE CENTER LINE OF THE OUTLET BOX.
- PANELBOARD AND SAFETY DISCONNECTS SHALL BE EASILY ACCESIBLE AND MAINTAIN ALL SERVICE CLEARANCE PER NEC.
- THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTER-RELATIONSHIP AND REQUIRED COORDINATION BETWEEN TRADES.
- ALL WORK SHALL CONFORM TO APPLICABLE NEC, LOCAL BUILDING CODES, AND STATE HEALTH REGULATIONS HAVING JURISDICTION, AND STATE AMENDMENTS TO BUILDING CODE.
- IN AREAS WHERE ELECTRICAL OUTLETS ARE LOCATED BENEATH A WINDOW AND THE WINDOW PREVENTS ROUTING OF CONDUIT UP THE WALL; CONDUIT SHALL BE ROUTED TO A WALL WHICH ALLOWS CONDUIT TO RISE UP TO CEILING SPACE.
- ALL CONDUIT ROUTED FROM PANELBOARD TO DISCONNECTS AT EXTERIOR HVAC UNITS OR ANY OTHER EQUIPMENT SHALL BE ROUTED BELOW GRADE. TRANSITION FROM GRADE TO EQUIPMENT TO MAKE A SEALTIGHT CONNECTION.
- ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4" IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE.
- ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SUPPORT WIRES IS NOT ACCEPTABLE.
- ALL RECEPTACLES LOCATED WITHIN 6'-0" TO THE EDGE SINK OR OTHER WATER SOURCE SHALL BE GFCI TYPE DEVICE IN ACCORDANCE WITH N.E.C. 210-8.A.7. COORDINATE LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
- COORDINATE EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH DIVISION 23 PRIOR TO ROUGH IN. ADJUST LOCATION OF DISCONNECTING MEANS AND BRANCH CIRCUITRY AS REQUIRED.
- PRIOR TO PROJECT COMPLETION, ELECTRICAL CONTRACTOR SHALL OBTAIN FINAL SPACE NUMBERS FROM OWNER AND/OR ARCHITECT. TYPEWRITTEN PANELBOARD DIRECTORIES SHALL REFLECT SPACE DESIGNATION OF EACH CIRCUIT. NO EXCEPTIONS.
- ALL THHN / THWN WIRE SHALL HAVE A FACTORY INSTALLED COLOR CODED OUTER JACKET. CONTRACTOR IS TO NOTE THAT ALL FEEDER CONDUCTORS SHALL HAVE FULL COLOR CODED OUTER JACKET INTEGRAL TO THE CONDUCTOR INSULATION. USE OF COLOR PHASING TAPE IS NOT ALLOWED.
- ALL RECEPTACLES AND SWITCHES SHALL BE SIDEWIRED, CONTRACTOR MY ELECT TO USE FACTORY TERMINATED MALE / FEMALE QUICK CONNECTS. (P&S "PLUGTAIL" OR EQUAL).
- ALL LOW VOLTAGE SYSTEMS WHICH HAVE UNDERGROUND CONDUIT / CONDUCTORS ROUTED OUTSIDE OF THE BUILDING FOOTPRINT SHALL HAVE LIGHTNING PROTECTION SURGE MODULES LOCATED AT EACH END OF LOW VOLTAGE CABLING.
- ALL WIRING DEVICE COVERPLATES SHALL BE HAND LABELED ON BACK OF COVERPLATE. LABELING SHALL BE PERMANENT MARKER, LEGIBLE, AND NOTE PANEL/CIRCUIT NUMBER SERVING DEVICE.
- ALL EMPTY CONDUITS SHALL HAVE PULLSTRINGS INSTALLED. CAP OFF ALL STUB UP CONDUIT, INSTALL LABEL NOTING LOCATION OF CONDUIT STUB OUT.
- ALL LOW VOLTAGE CONDUCTORS NOT IN CONDUIT SHALL BE PLENUM RATED. ALL TY-WRAPPS SUPPORTING SUCH SHALL BE PLENUM RATED. PROVIDE J-HOOKS AND SUPPORT MEANS AS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, PLUMBING, SPRINKLER AND MECHANICAL DRAWINGS AND COORDINATE HIS WORK WITH ALL OTHER TRADES FOR POWER REQUIREMENTS AND EQUIPMENT PLACEMENT. AVOID INTERFERENCE WITH ARCHITECTURAL FEATURES, BEAMS, FOOTINGS, WINDOWS, ETC. NOTIFY ARCHITECT OF ANY CONFLICTS.
- SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE.
- ALL OPENINGS THROUGH RATED WALLS SHALL BE SEALED WITH AN APPROVED FIREPROOFING TO MAINTAIN THE INTEGRITY OF THE WALL.
- PROVIDE MANUFACTURED COMPATIBLE PIPE HANGERS, RODS AND INSERTS, OR CLAMPS FOR THE PROPER SUPPORT OF ALL CONDUIT. NO BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING WILL BE PERMITTED.
- UPON COMPLETION OF THE WORK COVERED BY THIS CONTRACT, FURNISH THE OWNER WITH ONE (1) SET OF REPRODUCIBLE RECORD DOCUMENTS WHICH SHOW ALL ELECTRICAL INSTALLED UNDER THIS CONTRACT.

1 FLOOR PLAN - POWER & SYSTEMS
E1.2 Scale: 1/4" = 1'-0"

15 Sept 2026
MEP Permit

FLOOR PLAN -
POWER & SYSTEMS





PANELBOARD SCHEDULE

LPA

VOLTAGE	120/280	AMPS	400	MOUNTING		FLUSH		NOTES:				
PHASE	3	MAIN	MLO	ENCLOSURE		NEWA 1		*BRANCH CIRCUITS ARE (2#1/2, 1)(#12 GND IN 1/2" COND. UN) . SEE CIRCUIT SCHEDULE.				
WIRE	4	MIN AIC	10,000									
CONNECTED LOADS												
CIR#	TYPE	DESCRIPTION	BKR	CKT*	KVA	PHASE	KVA	CKT*	BKR	DESCRIPTION	TYPE	CIR#
1	K	#22 DISH MACHINE	201/		1.5	A	1.3		201/	#42 GRINDER	K	2
3	K	#30 FREEZER	201/		0.6	B				(SHUNT TRIP COLL)		4
5	K	#43 TEA BREWER	201/		1.7	C	3.0	30/2		#44 COFFEE BREWER	K	6
7	K	(SHUNT TRIP COLL)	201/		A	3.0					K	8
9	K	PRINTER	201/		0.8	B	1.4		201/	#41 ICE MACHINE	K	10
11	K	DISPLAYS	201/		1.0	C				(SHUNT TRIP COLL)		12
13	K	POS	201/		1.2	A	0.9	20/2		CONDENSER		14
15	K	ITEM 25B #1	201/		1.8	B	0.9				K	16
17	K	SODA DISPENSER	201/		0.8	C	1.8	20/1		ITEM 25B #2	K	18
19	K	EXISTING AIR CURTAIN	20/2		1.0	A	1.2	20/1		BAG IN BOX	K	20
21	K	I	I		1.0	B	1.8			#56 INDUCTION RANGE	K	22
23	K	DARPO STORAGE	201/		0.6	C	0.4	20/1		#7 REFIGERATION TASE	K	24
25	L	COOL LIGHTS	201/		1.4	A		20/1		(SHUNT TRIP COLL)		26
27	K	(SHUNT TRIP COLL)	201/		B	0.4				TBS		28
29	K	#1 CONVECTION OVEN	201/		1.0	C	0.2	20/1		COOLER LIGHTS	L	30
31	K	#5 REFRIGERATED PREP	201/		0.4	A	0.3	20/1		#81 UC REFRIGERATOR	K	32
33	R	OFFICE RECEP TACLES	201/		0.8	B	0.8	20/1		OUTDOOR REC	R	34
35	R	OFFICE RECEP TACLES	201/		0.6	C	3.7			PANEL L	C	36
37	K	#6 FRYER BATTERY	201/		1.5	A	3.7			I	C	38
39	K	FUTURE ESPRESSO	30/2		2.8	B	3.7			I	C	40
41	K	I	I		2.8	C					C	42
NOTES:												
LOAD SUMMARY												
LOAD TYPE												
APPLIANCE (A)					CNNT KVA	ADJ FACTOR	DMD KVA		CONNECTED KVA		51.4	
ELECTRIC HEAT (H)					0.0	100%	0.0		DEMAND KVA		40.5	
LIGHTING (L)					1.6	125%	2.0		DEMAND AMPS		112.6	
NON-CONT MOTORS (M)					0.0	100%	0.0					
RECEPTACLE (R)					2.2	125%	2.8		PHASE A CONNECTED AMPS		145.0	
OTHER CONT (C)					11.1	125%	13.9		PHASE B CONNECTED AMPS		140.0	
OTHER NON-CONT (N)					0.0	100%	0.0		PHASE C CONNECTED AMPS		146.7	
KITCHEN EQUIPMENT*					36.5	60%	21.9		MAX IN-BALANCE		5%	

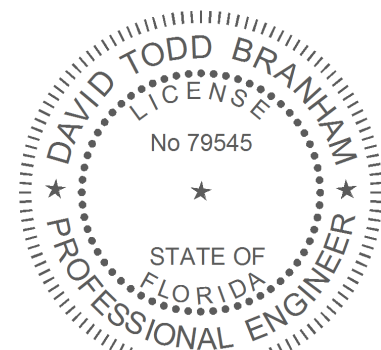
PANELBOARD SCHEDULE SECTION 2

LPA

VOLTAGE	120/208	AMP BS	400	N COUNTING	FLUSH	NOTES:						
PHASE	3	MAIN	M.O.	ENCLOSURE	NEWA 1	*BRANCH CIRCUITS ARE 2#1/2, 1(1)12 GND IN 1/2" COND.						
WIRE	4	MIN A/C	10,000			LOW. SEE CIRCUIT SCHEDULE.						
CONNECTED LOADS												
CIR#	TYPE	DESCRIPTION	BKR	CKT#	KVA	PHASE	KVA	CKT#	BKR	DESCRIPTION	TYPE	CIR#
43		SPARE	2001		0.0	A	1.9		201/	#17 HOT HOLD	K	44
45	R	TLT & JAN EXHAUST	2001		0.8	B	2.1		201/	#57 HEAT LAMP	K	46
47	K	#15 HEAT LAMP	2001		1.4	C	1.8		201/	KDS	K	48
49	R	DINING RECEPT CLES	2001		1.2	A	1.3		201/	#45 HOT WELLS	K	50
51	L	HOOD LIGHTS/CONTROL	2001		1.2	B	1.3		201/	#45 HOT WELLS	K	52
53	K	#46 REFRIG TABLE	2001		0.8	C	1.0		201/	KDS	K	54
55	M	EXISTING WH-1	2001		0.2	A	1.4		201/	#58 HEAT LAMP	K	56
57	M	EXISTING P-1	2001		0.2	B	0.7		201/	#57 HEAT LAMP	K	58
59	R	ALARM SYSTEM	2001		0.4	C	2.0		201/	#52 FLOOR MIXER	K	60
61	K	#11 CONVEYOR TOASTER	2001		1.8	A	0.6		201/	KITCHEN REC	R	62
63	K	#13 FOOD WARMER	2001		1.6	B						64
65						C						66
67	M	HEF-1	2003		0.9	A	5.1		603/	RTU-B1	H	68
69	M	I	I		0.9	B	5.1		I	I		70
71	M	I	I		0.9	C	5.1		I	I		72
73	M	HEF-2	2003		0.6	A	4.8		603/	RTU-B2	H	74
75	M	I	I		0.6	B	4.8		I	I		76
77	M	I	I		0.6	C	4.8		I	I		78
79	M	MAU-1	2003		1.4	A	3.2		603/	RTU-B3	H	80
81	M	I	I		1.4	B	3.2		I	I		82
83	M	I	I		1.4	C	3.2		I	I		84
NOTES:												
LOAD SUMMARY												
LOAD TYPE		CNNT KVA		ADJ FACTOR		DMD KVA		CONNECTED KVA				
APPLIANCE (A)		0.0		100%		0.0		CONNECTED KVA		71.7		
ELECTRIC HEAT (H)		39.3		100%		39.3		DEMAND KVA		180.9		
LIGHTING (L)		1.2		125%		1.5		DEMAND AMPS		65.1		
NON-CNT MOTORS (M)		9.1		100%		9.1						
RECEPTACLE (R)		3.0		125%		3.8		PHASE A CONNECTED AMPS		203.3		
OTHER CONT (C)		0.0		125%		0.0		PHASE B CONNECTED AMPS		199.2		
OTHER NON-CNT (N)		0.0		100%		0.0		PHASE C CONNECTED AMPS		195.0		
KITCHEN EQUIPMENT		19.1		60%		11.5		MAX IN-BALANCE		4%		

1. EXISTING 400-AMP 120/208 VOLT 3-PHASE DISCONNECT AND METER AT SERVICE ENTRANCE.





ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

1. FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION AND INCIDENTALS TO COMPLETE IN EVERY DETAIL, AND LEAVE IN WORKING ORDER ITEMS SHOWN ON THE CONTRACT DOCUMENTS.
2. INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN COORDINATION.
3. LAYOUT SHOWN IN DRAWINGS IS BASED ON A PARTICULAR MAKE OF EQUIPMENT. CONTRACTOR SHALL PROVIDE SIX SUBMITTAL SETS OF INDICATED PRODUCTS SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING WORK. PANEL SCHEDULES SHALL BE REJECTED WITHOUT DIMENSIONED LAYOUT OF ELECTRICAL ROOM(S), IF ANOTHER MAKE OF EQUIPMENT IS DESIRED, THESE SUBMITTALS SHALL ALSO SHOW ALL REQUIRED MODIFICATIONS AND CHANGES, INCLUDING THOSE INVOLVING CONTRACTOR MUST RECEIVE APPROVED SUBMITTAL COPY, SIGNED BY ENGINEER BEFORE PROCEEDING WITH ANY MODIFICATIONS. WORK INSTALLED USING UNAPPROVED SUBSTITUTIONS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL VISIT THE SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING SCOPE OF WORK. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF ANY RESPONSIBILITY IN THE PERFORMANCE OF HIS WORK. ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE BY CRAFTSMEN SKILLED IN THIS PARTICULAR WORK.
5. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCE, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF THE FOLLOWING:
- NFPA-70- NATIONAL ELECTRICAL CODE
 - NFPA-72- PROTECTIVE SIGNALING SYSTEMS
 - NFPA-101- LIFE SAFETY CODE
 - INTERNATIONAL BUILDING CODE
6. CONTRACTOR SHALL MAINTAIN LIGHTING AND POWER AND SHALL PROVIDE MATERIALS NECESSARY FOR TEMPORARY LIGHTS AND POWER. POWER CONSUMPTION WILL BE PAID FOR BY THE CONTRACTOR.
7. OBTAIN PERMITS AND CERTIFICATES OF APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION OVER THE INSTALLATION AND PAY ALL FEES REQUIRED.

PART 2 PRODUCTS

1. CONDUIT
- A. PROVIDE A COMPLETE CONDUIT SYSTEM WITH ASSOCIATED COUPLINGS, CONNECTORS, AND FITTINGS.
- B. CONDUIT SHALL BE AS MANUFACTURED BY ALLIED, WHEATLAND OR REPUBLIC FOR GALVANIZED RIGID/EMT AND ANACONDA, ALFLEX OR INTERNATIONAL FOR FLEXIBLE STEEL CONDUIT.
- C. FOR EMT PROVIDE STEEL SET SCREW TYPE COUPLINGS, CONNECTORS, AND FITTINGS WITH NYLON INSULATED THROATS AND CASE HARDENED LOCKNUTS.
- D. RIGID NONMETALLIC (PVC) CONDUIT: CARLON SCHEDULE 40, HEAVY WALL OR APPROVED EQUAL.
- E. RUN CONCEALED CONDUITS IN AS DIRECT LINE AS POSSIBLE BETWEEN OUTLETS. RUN EXPOSED CONDUITS AT RIGHT ANGLES WITH BUILDING STRUCTURE.
- F. MAINTAIN INTEGRITY OF FIRE PARTITIONS AND FLOOR SLABS WHERE CONDUITS PASS THROUGH SLEEVES FROM ONE AREA TO ANOTHER WITH U.L. LISTED FIRE AND SMOKE STOP FITTINGS.
- G. COMPLETE ALL CONDUIT SYSTEMS BEFORE INSTALLING CONDUCTORS.
- H. INSTALL COPPER, GROUND WIRE IN ALL FLEXIBLE CONDUIT.
- I. ALLOW SUFFICIENT SLACK IN FLEXIBLE CONDUIT TO REDUCE VIBRATION EFFECT. USE LIQUIT-TIGHT FLEXIBLE CONDUIT FOR FINAL CONNECTION TO MOTORS AND WHERE SUBJECTED TO DAMP AND WET LOCATION.
- J. SUPPORT CONDUIT WITH APPROVED STRAPS AND HANGERS AT INTERVALS REQUIRED BY N.E.C.
- K. USE ELECTRICAL METALLIC TUBING WHERE DRAWINGS CALL FOR CONDUIT TO BE CONCEALED IN WALLS OR ABOVE CEILINGS.
- L. USE GALVANIZED RIGID WHERE CONDUITS ARE RUN EXPOSED ABOVE FINISHED FLOOR OR GRADE.
- M. USE PVC SCHEDULE 40 WHERE RUN IN SLAB (ON FIRST FLOOR ONLY) AND BELOW GRADE WITH TRANSITION BEING MADE TO GALVANIZED RIGID BEFORE TURNING UP OUT OF SLAB OR GRADE.
- N. MINIMUM CONDUIT SIZE SHALL BE 1/2".
2. WIRE AND CABLE
- A. PROVIDE A COMPLETE SYSTEM OF CONDUCTORS FOR LIGHTING AND POWER SYSTEMS THROUGHOUT THE PROJECT
- B. ALL CONDUCTORS SHALL BE 98 PERCENT CONDUCTIVITY COPPER WITH 600 VOLT MINIMUM INSULATION. 75 DEGREE C
- C. ALL CONDUCTORS NO. 8 AND SMALLER SHALL HAVE TYPE THHN OR THWN INSULATION AND SHALL BE SOLID UNLESS NOTED OTHERWISE ON PLANS.
- D. ALL CONDUCTORS NO. 6 AND LARGER SHALL HAVE TYPE THHN OR THWN INSULATION AND SHALL BE STRANDED UNLESS NOTED OTHERWISE ON PLANS.
- E. CONDUCTORS SHALL BE AS MANUFACTURED BY ANACONDA, GENERAL CABLE, HABIRSHAW, OKONITE, ROME, TRIANGLE OR SOUTHWIRE UNLESS NOTED OTHERWISE.
- F. MAKE ALL SPLICES OR CONNECTIONS ONLY AT OUTLET OR JUNCTION BOXES.
- G. USE ONLY APPROVED (SOAPSTONE) OR OTHER LUBRICANT WHERE REQUIRED.
- H. USE APPROVED SCOTCHLOCK OR T&B CONNECTORS FOR INTENDED APPLICATION WHERE CONNECTORS ARE REQUIRED.
- I. CONDUCTORS ARE TO BE COLOR CODED WITH A DIFFERENT COLOR FOR EACH PHASE, NEUTRAL, AND GROUND AS FOLLOWS:
120/208V CIRCUITS: PHASE A, B, AND C: BLACK, RED, AND BLUE RESPECTIVELY. NEUTRAL, WHITE. GROUND, GREEN.
- J. CONDUCTORS ARE TO BE COLOR CODED WITH A DIFFERENT COLOR FOR EACH PHASE, NEUTRAL, AND GROUND AS FOLLOWS:
277/480V CIRCUITS: PHASE A, B, AND C: BROWN, ORANGE, AND YELLOW RESPECTIVELY. NEUTRAL, WHITE. GROUND, GREEN.
3. OUTLET AND JUNCTION BOXES
- A. PROVIDE EACH FIXTURE, SWITCH, RECEPTACLE, AND OTHER DEVICE WITH A GALVANIZED STEEL OUTLET BOX OF APPROPRIATE SIZE AND DEPTH FOR ITS PARTICULAR LOCATION AND PROVIDE PULL AND JUNCTION BOXES WHERE REQUIRED.
- B. CEILING OUTLET BOXES SHALL BE 4" OCTAGON AND WALL BOXES TO BE 4" SQUARE WITH RAISED PLASTER RINGS OR DEVICE RINGS. PROVIDE FIXTURE STUDS IN CENTER OF BOXES USED FOR SUPPORT OF FIXTURES.
- C. OUTLET AND JUNCTION BOXES SHALL BE AS MANUFACTURED BY NATIONAL APPLETON, GENERAL ELECTRIC, RACO, OR STEEL CITY.
- D. INSTALL PULL BOXES IN ALL CIRCUITS OR FEEDERS OVER 100 FEET LONG.
- E. OUTLET BOXES SHALL BE SECURELY ANCHORED, SET TRUE AND PLUMB AND NO PART OF BOX OR COVER SHALL EXTEND BEYOND FINISHED WALL OR CEILING. FLUSH MOUNTED BOXES SHALL BE SET TO WITHIN 1/8" OF FINISHED WALL AND A PLASTER RING USED TO MAKE COVER FLUSH WITH WALL. PLASTER RING NOT REQUIRED FOR EXPOSED LOCATIONS.

- F. OUTLET BOXES SHALL NOT BE LOCATED ON OPPOSITE SIDES OF THE SAME FIRE OR SMOKE RATED WALL WITHIN THE SAME STUD COMPARTMENT. BOXES SHALL BE OFFSET AS REQUIRED TO PREVENT THIS AND TO MAINTAIN WALL RATINGS.
4. WIRING DEVICES AND PLATES
- A. PROVIDE SUBMITTALS.
- B. PROVIDE SWITCHES, RECEPTACLES, AND OTHER WIRING DEVICES AS INDICATED ON DRAWINGS.
- C. PROVIDE IVORY DEVICE PLATES ON ALL WIRING DEVICES. UNLESS DIRECTED OTHERWISE BY OWNER. FIELD COORDINATE DEVICE AND DEVICE PLATE COLOR TO MATCH WALL COVERINGS AS DIRECTED BY OWNER.
- D. SWITCHES (LEVITON NO. USED; P&S, LUTRON OR HUBBLE ACCEPTABLE).
- 1) 20AMP, 120/277V, AC:
CSB1-201 SINGLE POLE
CSB4-201 THREE WAY
- E. RECEPTACLES:
- 1) 20-AMP, 125 V, AC:
BR20-1 DUPELEX TYPE
68991 GF1
- F. MISCELLANEOUS DEVICES:
- 1) MANUAL MOTOR STARTER: BRYANT NO. 10004 OR SQUARE D, CLASS 2150.
- G. MOUNT ALL SWITCHES 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- H. MOUNT ALL RECEPTACLES 18" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE OR OTHERWISE REQUIRED TO MATCH EXISTING DEVICES IN SAME ROOM.
- I. CHECK ARCHITECTURAL DRAWINGS FOR SPECIAL MOUNTING CONDITIONS FOR CASEWORK AND IN SPECIAL AREAS
- J. INSTALL DEVICE PLATES IN FULL CONTACT WITH WALL.
5. PANELBOARDS
- A. PROVIDE SUBMITTALS SHOWING CIRCUIT BREAKER SIZES, AIC RATINGS, BUS AND NEUTRAL SIZES, PROVIDE ROOM DIMENSIONS IF APPLICABLE.
- B. PANELBOARDS SHALL BE OF THE CIRCUIT BREAKER TYPE AS MANUFACTURED BY SQUARE "D", SIEMENS, GENERAL ELECTRIC, CUTLER-HAMMER OR APPROVED EQUAL.
- C. PANELBOARDS SHALL BE RATED FOR 120/208 VOLT 3 PHASE, 4 WIRE, AND 277/480 VOLT 3 PHASE, 4 WIRE AS INDICATED ON SCHEDULE.
- D. ALL PANELBOARDS SHALL HAVE ISOLATED NEUTRAL BUS.
- E. ALL PANELS SHALL HAVE SEPARATE GROUND BUS CONNECTED WITH A GREEN GROUNDING CONDUCTOR BACK TO THE SOURCE OF ITS PARTICULAR FEED.
- F. ALL PANELBOARDS SHALL HAVE TYPED DIRECTORY CARDS EXCEPT THAT POWER PANELS WILL BE ENGRAVED PHENOLIC NAMEPLATES ATTACHED TO THE INDIVIDUAL BREAKERS INDICATING THE PANELBOARD OR DEVICE BEING SERVED.
- G. INSTALL FLUSH MOUNTED PANELBOARDS WHERE INDICATED SO THAT THE PANEL BOX WILL BE FLUSH WITH THE WALL SURFACE AND THE PANELBOARD FRONT WILL BE IN FULL CONTACT WITH THE WALL. STUB OUT INTO CEILING SPACE A MINIMUM OF ONE 3/4" EMPTY CONDUIT PER EACH 3 POLES OF SPARES OR SPACES.
- H. SURFACE MOUNTED PANELBOARDS SHALL BE FIRMLY ATTACHED TO THE WALL ON WHICH IT IS BEING MOUNTED.
- I. ALL PANELBOARDS SHALL HAVE A COPPER BUS.
6. SAFETY SWITCHES
- A. PROVIDE SUBMITTALS
- B. SAFETY SWITCHES SHALL BE AS MANUFACTURED BY SQUARE D, SIEMENS, GENERAL ELECTRIC, CUTLER-HAMMER OR APPROVED EQUAL.
- C. SAFETY SWITCHES SHALL BE OF THE HEAVY DUTY TYPE WITH ARC SHIELDS AND GROUND LUG AND SHALL BE RATED FOR THE VOLTAGE OF THE SYSTEM TO WHICH IT IS BEING USED.
- D. PROVIDE NEMA 1 ENCLOSURES FOR INTERIOR APPLICATIONS AND NEMA 3R FOR EXTERIOR APPLICATIONS OR IN WET LOCATIONS.
- E. FUSES FOR SAFETY SWITCHES SHALL BE AS MANUFACTURED BY BUSSMAN OR LITTELFUSE AND SHALL BE DUAL ELEMENT FUSETRONS FOR MOTORS AND "LOW PEAK" FOR OTHER LOADS.
7. SERVICE ENTRANCE AND GROUNDING
- A. ALL CURRENT CONSUMING DEVICES SHALL HAVE A GROUND WIRE INSTALLED IN THE SAME CONDUIT AS THE PHASE CONDUCTORS FROM THE PANEL TO THE DEVICE. THIS APPLIES TO RECEPTACLES, MOTORS, ETC.
- B. SERVICE ENTRANCE RACEWAYS, CONDUCTORS, TRENCHING, BACKFILL, ETC. SHALL BE INSTALLED AS INDICATED ON DRAWINGS AND PER NEC AND LOCAL CODE REQUIREMENTS INCLUDING LOCAL UTILITY COMPANY INSTALLATION SPECIFICATIONS.
- C. ALL GROUND WIRE SHALL BE COPPER WITH A GREEN INSULATION OR IF A GREEN INSULATION IS NOT AVAILABLE, THEN GREEN IDENTIFYING TAPE WILL BE INSTALLED AT BOTH TERMINATION POINTS.
- D. ALL MATERIALS SHALL BE AS SPECIFIED ON DRAWINGS OR AS SPECIFIED BY LOCAL UTILITY COMPANY FOR SERVICE EQUIPMENT INSTALLATIONS.
- E. PROVIDE GROUND WIRES THROUGHOUT DISTRIBUTION SYSTEM AND TO ALL UTILIZATION EQUIPMENT, SUCH AS RECEPTACLES, MOTORS, AND OTHER REQUIREMENT LOCATIONS PER NATIONAL ELECTRICAL CODE ARTICLE 250.
- F. PROVIDE SERVICE INSTALLATION PER DRAWINGS. CONTRACTOR SHALL FIELD COORDINATE EXACT LOCATION AND POINT OF SERVICE INSTALLATION WITH UTILITY COMPANY INCLUDING PROVIDING FINAL BROKEN DOWN LISTING OF LOADS FOR UTILITY COMPANY USE IN DETERMINING SERVICE EQUIPMENT SIZES AND TYPES.
8. LIGHTING FIXTURES
- A. PROVIDE SUBMITTALS
- B. PROVIDE LIGHTING FIXTURES AS INDICATED ON LIGHTING FIXTURE SCHEDULE ON DRAWINGS. EQUAL TO BE BY LITHONIA, BENJAMIN-DAYBRITE, HUBBELL, METALUX OR LIGHTOLIER.
- C. FLUORESCENT BALLASTS SHALL BE ELECTRONIC AS MANUFACTURED BY ADVANCE, MOTOROLA OR MAGNETEC.
- D. FLUORESCENT LAMPS SHALL BE RAPID START COOL WHITE UNLESS NOTED OTHERWISE.
- E. LED FIXTURES SHALL BE 4000K MINIMUM.
- F. HID LAMPS SHALL BE RATED AT VOLTAGE INDICATED ON DRAWINGS. HID FIXTURES SHALL BE FURNISHED WITH REGULATING, HPF BALLASTS AND WHERE RECESSED, SHALL HAVE INTEGRAL THERMAL PROTECTION.
- G. LAMPS SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, SYLVANIA, OR PHILIPS.
- H. TIME SWITCHES OR PHOTOCELLS SHALL BE TORK, INTERMATIC OR PARAGON OF TYPES SHOWN ON DRAWINGS.

- I. JOINTS AND FIXTURE WIRING SHALL BE MADE USING WIRE NUTS, PREINSULATED SCOTCH LOCKS OR OTHER APPROVED MECHANICAL MEANS OF CONNECTION.
- J. COORDINATE FIXTURE LOCATIONS TO CLEAR DIFFUSERS, DUCTWORK, PIPING, ETC.
- K. COORDINATE FIXTURE TYPES WITH CEILING TYPES BEING INSTALLED.
- L. ADJUST FIXTURES TO LIGHT INTENDED AREA WHERE ADJUSTABLE.
9. TELEPHONE/DATA RACEWAY SYSTEM
- A. PROVIDE CONDUIT STUB UP AS INDICATED ON THE DRAWINGS AT EACH DEVICE.
- B. TERMINATE CONDUITS ABOVE DROPPED CEILING USING NYLON INSULATED BUSHINGS.
- C. OUTLET BOXES SHALL BE 411/16" SQUARE BOXES WITH PLASTER RING AND COVER AS REQUIRED BY TELEPHONE VENDOR.
- D. PROVIDE SERVICE CONDUITS, OUTLET CONDUITS, BACK BOXES, COVER PLATES, JUNCTION BOXES, AND TERMINAL BOARDS OR CABINETS AS REQUIRED BY DRAWINGS AND TELEPHONE/ DATA VENDOR.
- E. LEAVE NYLON PULLSTRING IN ALL EMPTY CONDUITS.
- F. PROVIDE METALLIC CONDUIT SLEEVES WHEREVER CABLES PASS THROUGH FIRE OR SMOKE RATED WALL ASSEMBLIES.
- G. OWNER VENDOR TO PROVIDE CABLE, PULL CABLE AND MAKE TERMINATIONS.
- H. SERVICE ENTRANCE CONDUITS AND FIREPROOF 4 x 4" x 3/4" TERMINAL BOARDS SHALL BE FURNISHED AS SHOWN ON DRAWINGS. CONTRACTOR SHALL FIELD COORDINATE ACTUAL LOCATION OF TERMINATION WITH LOCAL UTILITY PRIOR TO ROUGH-IN. GROUND WITH BARE #6 AWG THROUGH GROUND BUSHINGS.

PART 3 EXECUTION

- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS, MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1)YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED.
- 2) UPON COMPLETION OF PROJECT, ALL EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITIONS WITH ALL DAMAGE RESTORED TO ACCEPTABLE CONDITION. ALL EQUIPMENT SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR USE. AT COMPLETIONS OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.
3. WHERE CONDUITS ARE TO PASS THROUGH WALLS, FLOORS, ETC. SLEEVES SHALL BE PROVIDED PRIOR TO WALL CONSTRUCTION. SLEEVES SHALL BE OF RIGID METAL WHERE SLEEVES PENETRATE EXTERIOR SURFACES, VOIDS SHALL BE SEALED WATER TIGHT. WHERE SLEEVES PASS THROUGH RATED PARTITIONS, SLEEVE PACKING SHALL BE OF U.L. LISTED FIRE SAFE TYPE.
4. CONTRACTOR SHALL SUBMIT THREE SETS (3) OF INSTRUCTION BOOKS, INCLUDING INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS, PAMPHLETS OR PROCEDURES AND ALL EQUIPMENT WARRANTIES OBTAINED FROM EACH MANUFACTURER OF EQUIPMENT.
5. CONTRACTOR SHALL MAINTAIN ONE SET OF BLUE LINES AT THE CONSTRUCTION SITE. THESE BLUE LINES SHALL BE MARKED FOR CHANGES AND SHALL BE USED FOR AS-BUILT DRAWINGS. TURN DRAWINGS OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.
6. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED FOR EXACT SIZES OR LOCATIONS.