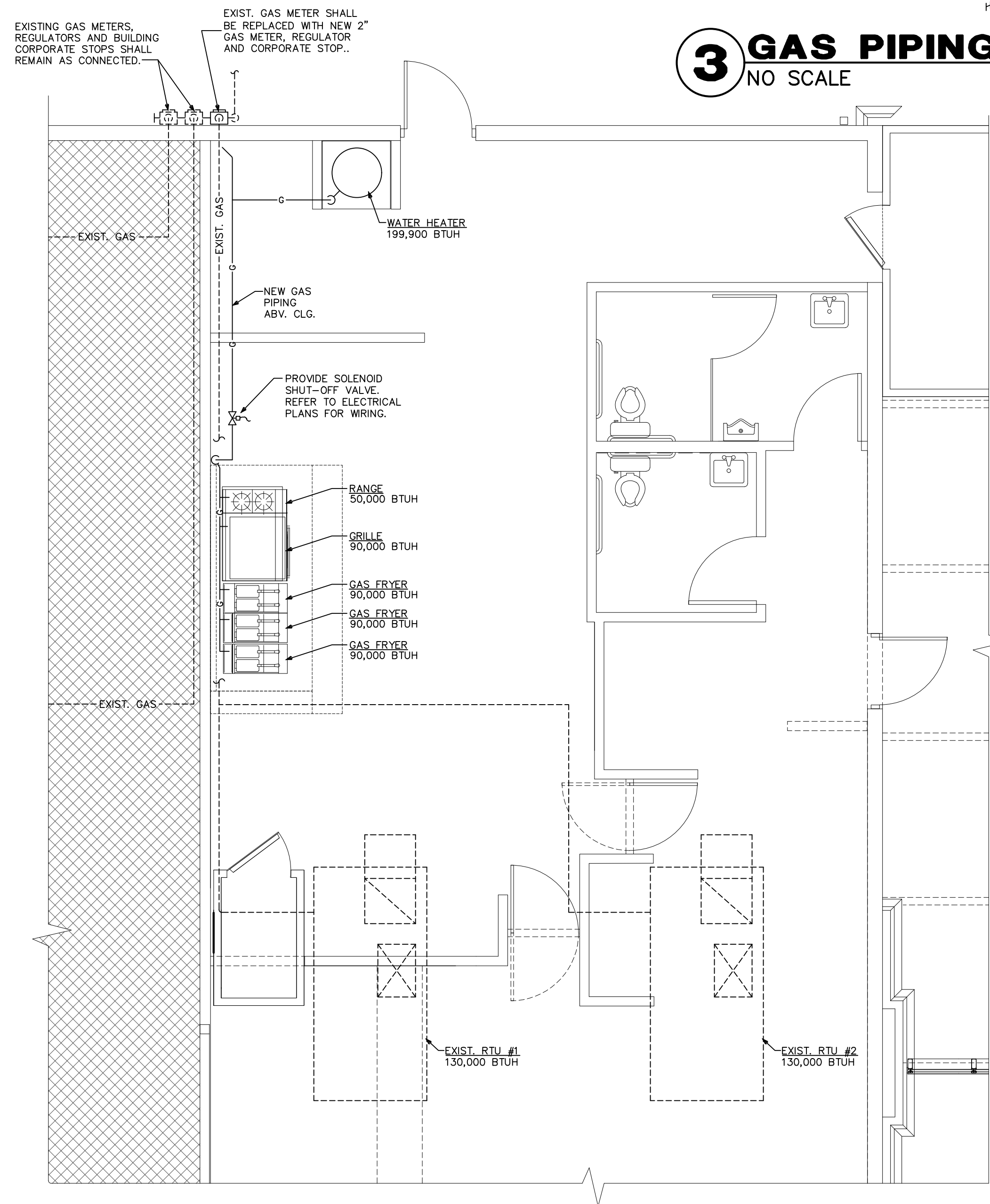
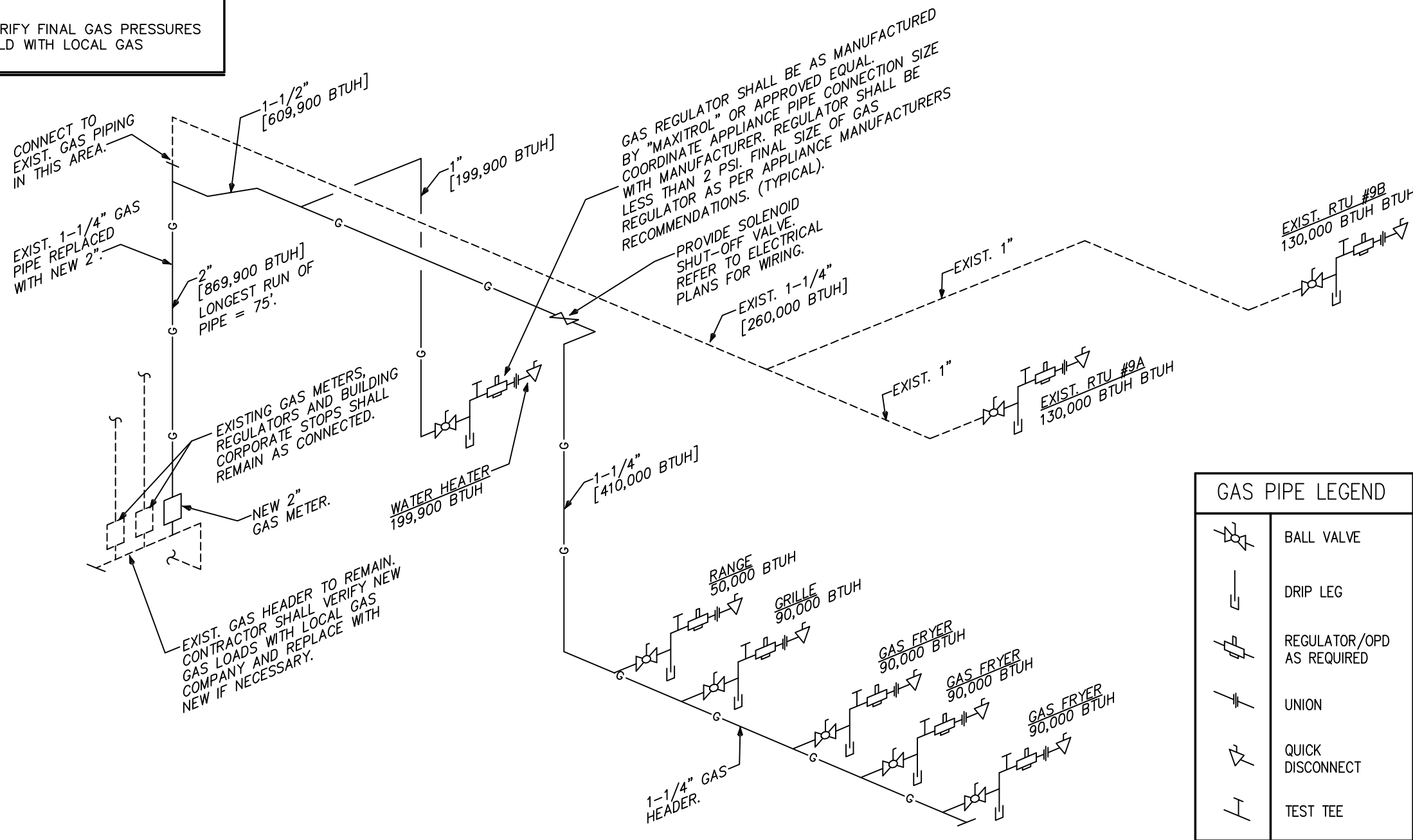


- GENERAL GAS PIPING NOTES**
1. NEW GAS PIPING AND FITTINGS SHALL BE SEAMLESS BLACK STEEL WITH MALLEABLE IRON FITTINGS. DIELECTRIC COUPLINGS OR UNIONS SHALL BE UTILIZED WHEN PIPING OF DISSIMILAR METAL IS CONNECTED. EXTERIOR GAS PIPING ON ROOF SHALL BE PAINTED WITH YELLOW "TRUSTOLEUM" PAINT. EXPOSED GAS PIPING ON BACK WALL SHALL BE "TRUSTOLEUM", PAINTED TO MATCH BUILDING. GAS PIPING CONNECTIONS SHALL BE THREADED UNLESS OTHERWISE REQUIRED BY CODE.
 2. NEW GAS PIPING SYSTEM SHALL BE INSTALLED TO THE REQUIREMENTS OF THE AGA PAMPHLET "INSTALLATION OF GAS APPLIANCES AND GAS PIPING" AND THE NFPA STANDARD #54. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY ALL FEES WITH THE "LOCAL" GAS COMPANY FOR THE INSTALLATION OF THE GAS METER, GAS SERVICE, AND ITS ACCESSORIES NECESSARY FOR A COMPLETE SYSTEM.
 3. GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA #54, AND ANY OTHER TESTS REQUIRED BY THE LOCAL BUILDING DEPARTMENT AND/OR THE LOCAL GAS UTILITY COMPANY.
 4. THE INSTALLING SUBCONTRACTOR SHALL BE LICENSED BY THE STATE FOR THE INSTALLATION OF GAS PIPING.
 5. RUNOUT PIPING, FROM THE MAIN PIPING TO APPLIANCES, SHALL BE WITH AN INVERTED TRAP CONNECTION AT THE MAIN.
 6. A 12" DIRT LEG, AND A GAS COCK, SHALL BE PROVIDED AT ALL GAS APPLIANCES.
 7. ALL EXPOSED GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL, MARKED "GAS" IN BLACK LETTERS. THE MARKERS SHALL BE AT INTERVALS NOT EXCEEDING 5'.
 8. ALL NEW GAS BURNING EQUIPMENT SHALL BE INSTALLED PER NFPA #58, NFPA #54 (L.P.G.) OR NFPA #96 (COMMERCIAL COOKING EQUIPMENT).
 9. NEW GAS CONNECTIONS PER ANSI Z21.69



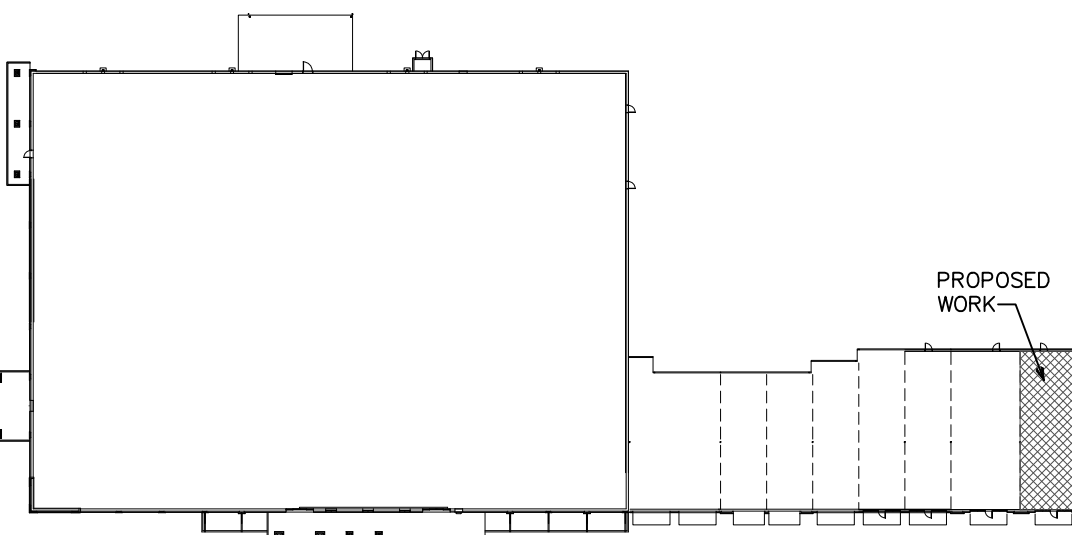
2 PART. FLOOR PLAN - GAS PIPING
SCALE: 1/4"=1'-0"

NOTE:
EXISTING GAS PIPING IS SIZED BASED ON GAS PIPING WITH AN INITIAL PRESSURE OF LESS THAN 2 PSI. GAS PIPING IS SIZED AS PER 2012 NCGC TABLE 402.4(2). ALL NEW GAS PIPING BASED ON SAME PRESSURE.
* CONTRACTOR SHALL VERIFY FINAL GAS PRESSURES AND CONNECTIONS IN FIELD WITH LOCAL GAS COMPANY.



3 GAS PIPING ISOMETRIC
NO SCALE

- SPECIFIC MECHANICAL NOTES**
1. CONNECT TO EXISTING DUCTWORK ABOVE CEILING IN THIS AREA. CONTRACTOR SHALL VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
 2. EXISTING RTU WITH ECONOMIZER AND DUCT SMOKE DETECTORS IN R/A & S/A DUCTS SHALL REMAIN AS CONNECTED. OUTSIDE AIR DAMPER SHALL BE BALANCED TO REQUIRED OUTSIDE AIR INDICATED IN OUTSIDE AIR SCHEDULE ON SHEET M-3.



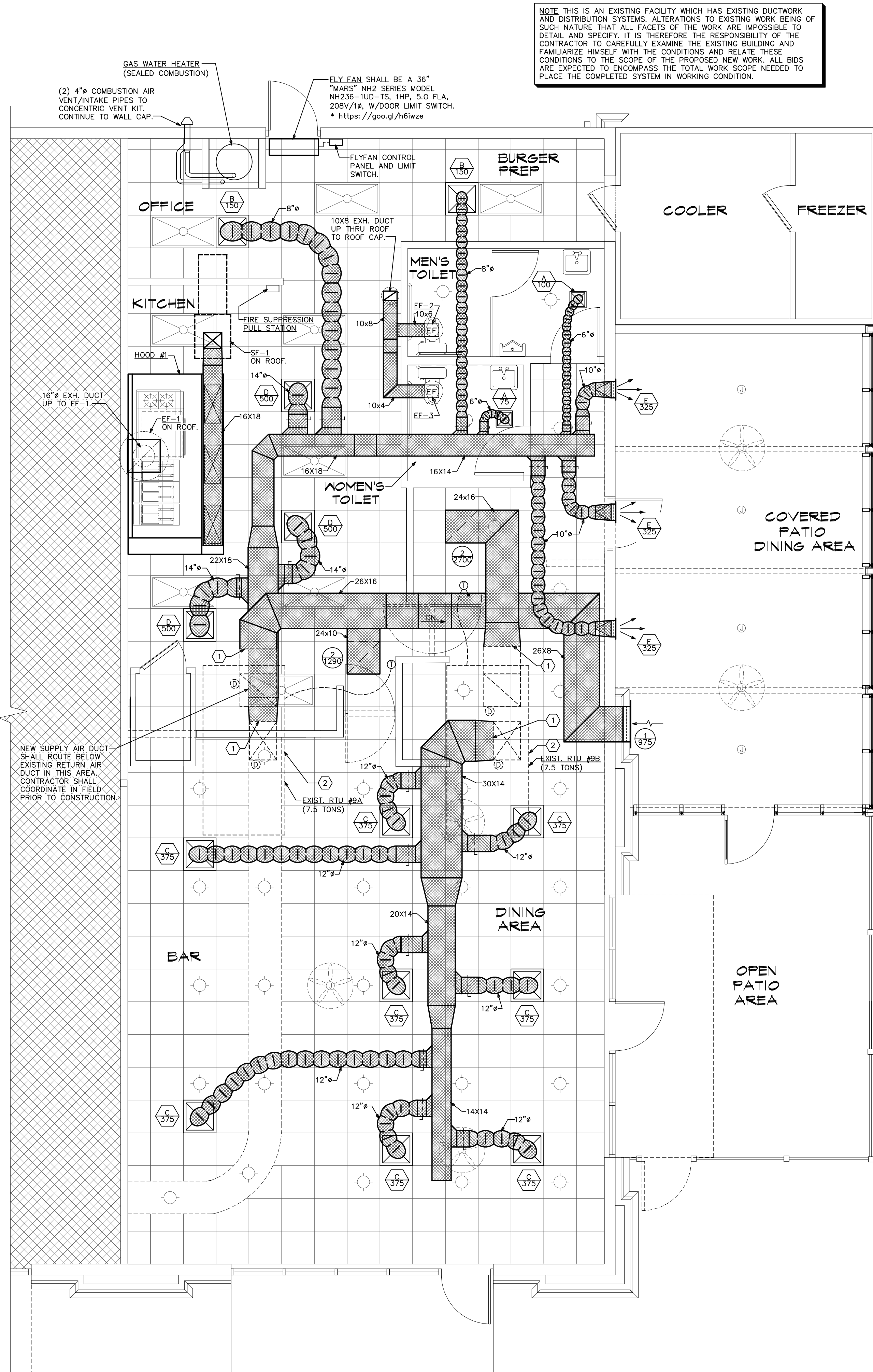
KEY PLAN NO SCALE

SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE		DESIGNATES CFM QUANTITY FOR DIFFUSER		
DESIGNATES CFM QUANTITY FOR DIFFUSER		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS TDC-AA	6"	0 - 125	12X12 LOUVERED FACE *
B	TITUS PCS-AA	8"	130 - 200	PERFORATED FACE **
C	TITUS PCS-AA	12"	330 - 450	PERFORATED FACE **
D	TITUS PCS-AA	14"	455 - 600	PERFORATED FACE **
E	TITUS 300RL	12X8	0 - 350	SIDEWALL REGISTER *

* BORDER TYPE 1 (SURFACE MOUNT)
** BORDER TYPE 3 (LAY-IN) WITH 4-WAY INTERNAL DEFLECTORS.

RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT.		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	26X10	0 - 1000	SIDEWALL REGISTER *
2	TITUS 50F	24X24	0 - 3500	PERFORATED FACE **

* BORDER TYPE 1 (SURFACE MOUNT)
** LAY-IN (PANEL MOUNTED).



1 FLOOR PLAN - MECHANICAL
SCALE: 1/4"=1'-0"

NOTE THIS IS AN EXISTING FACILITY WHICH HAS EXISTING DUCTWORK AND DISTRIBUTION SYSTEMS. ALTERATIONS TO EXISTING WORK BEING OF SUCH NATURE THAT ALL FACETS OF THE WORK ARE IMPOSSIBLE TO DETAIL AND SPECIFY. IT IS THEREFORE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE EXISTING BUILDING AND FAMILIARIZE HIMSELF WITH THE CONDITIONS AND RELATE THESE CONDITIONS TO THE SCOPE OF THE PROPOSED NEW WORK. ALL BIDS ARE EXPECTED TO ENCOMPASS THE TOTAL WORK SCOPE NEEDED TO PLACE THE COMPLETED SYSTEM IN WORKING CONDITION.

REV	DESCRIPTION	BY
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HOOD INFORMATION – Job#3181257

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)						TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.		
						WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.			S.P.	END TO END	ROW
1		5424 ND-2=PSP-F	10' 0"	450 Deg.	2500			4"	16"	2500	1790	-0.909"	2000	430 SS Where Exposed	ALONE	ALONE

HOOD INFORMATION

HOOD NO.	TAG	TYPE	FILTER(S)		LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	LIGHT(S)		WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)		FIRE SYSTEM PIPING	HOOD HANGING WH1	
			QTY.	HEIGHT				TYPE	SIZE				TYPE	MODEL #			SWITCHES
1		Captrate Solo Filter	7	20"	16"	85% See Filter Spec.	5	L55 Series E26	NO	Left	12"x54"x24"	Ansul R102	3.0/1.5	SC-311110FP	1 Light 1 Fan	YES	771 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 17.00" High Front, Left, Right BACKSPLASH 122.00" High X 168.00" Long 430 SS Vertical

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1	Front	132"	16"	6"		MUA	12"	28"		666	0.169"
						MUA	12"	28"		666	0.169"
						MUA	12"	28"		666	0.169"

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

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

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.

Fire System Information – Job#3181257

FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		Ansul R102	3.0/1.5	2	Fire Cabinet Left	Left

EXHAUST FAN INFORMATION – Job#3181257

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1	EF	DUI80HFA	2500	1.500	1236	1.500	0.9660	3	208	6.6	577 FPM	174	16.8

MUA FAN INFORMATION – Job#3181257

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
2	SF	A1-15D	15MF-1-MOD	A1	2000	0.350	1773	1.500	0.8780	3	208	4.4	260	23

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. – Descr.)
1	EF	1 – Grease Box
2	SF	1 – Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) – Three Phase Only

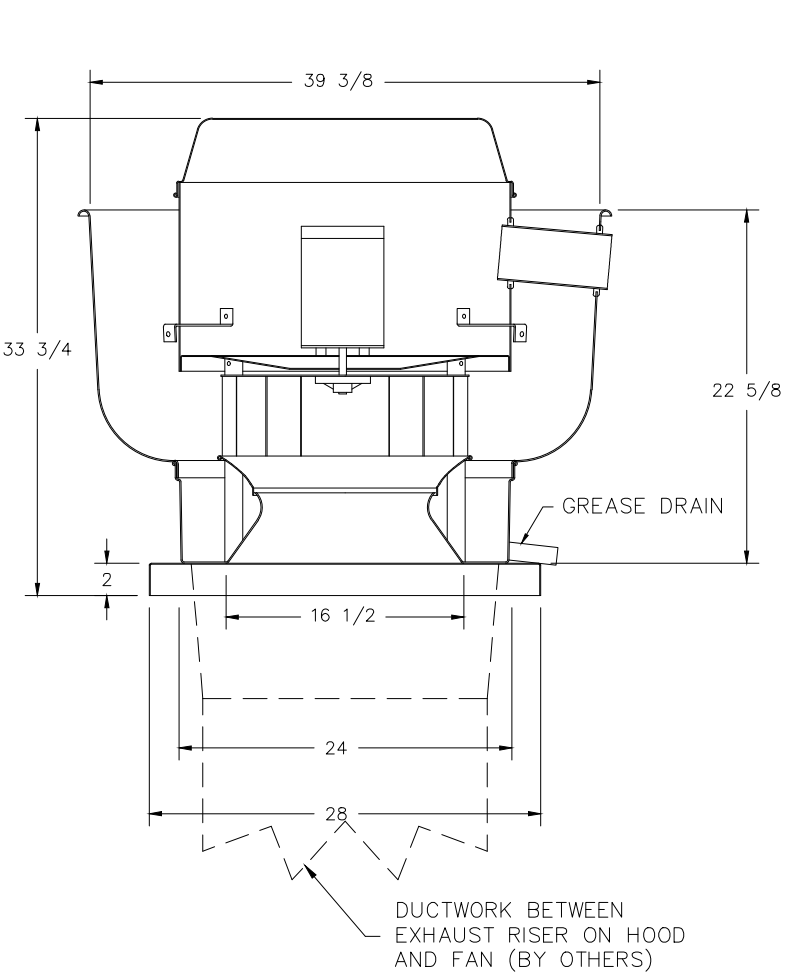
FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF	YES						
2	SF							

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	34 LBS	Curb	26.500"W x 26.500"L x 24.000"H Vented Hinged
2	# 2	29 LBS	Curb	21.000"W x 21.000"L x 14.000"H

EF-1 – DUI80HFA – EXHAUST FAN (EF)



FEATURES:

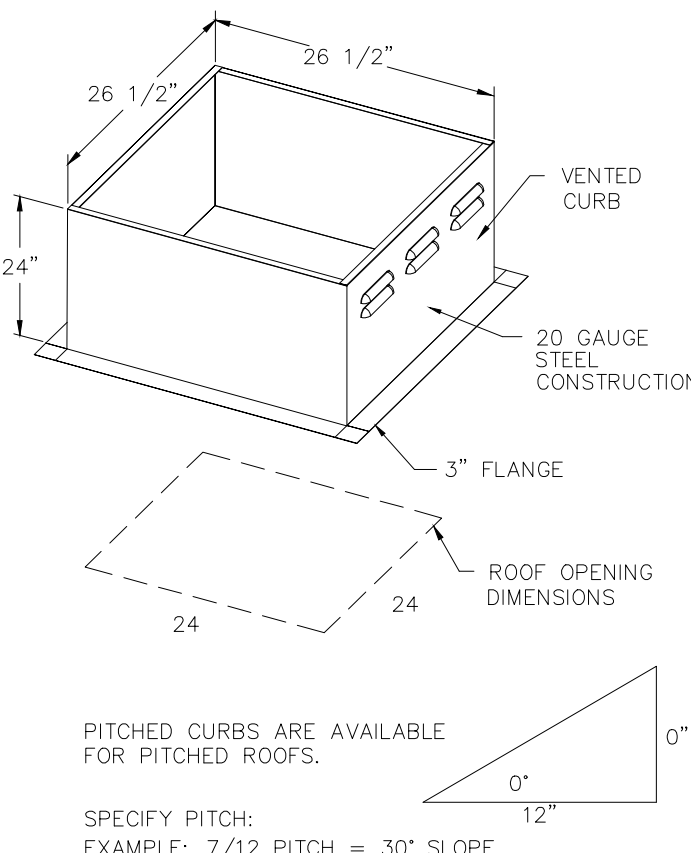
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX



FOR QUESTIONS, CALL THE
CHARLOTTE, NORTH CAROLINA
AVERY GRANT
PHONE: 704-844-9088, FAX: 704-844-0599
– EMAIL: reg30@captiveaire.com

CAPTIVEAIRE

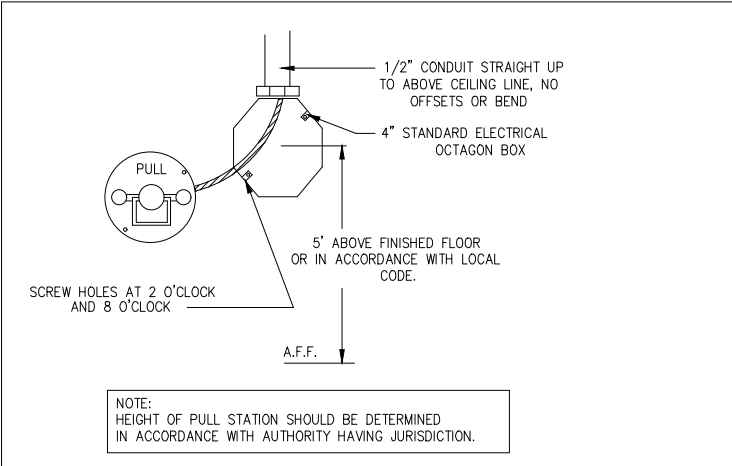
CAPTIVE-AIRE HOODS ARE
BUILT IN COMPLIANCE WITH



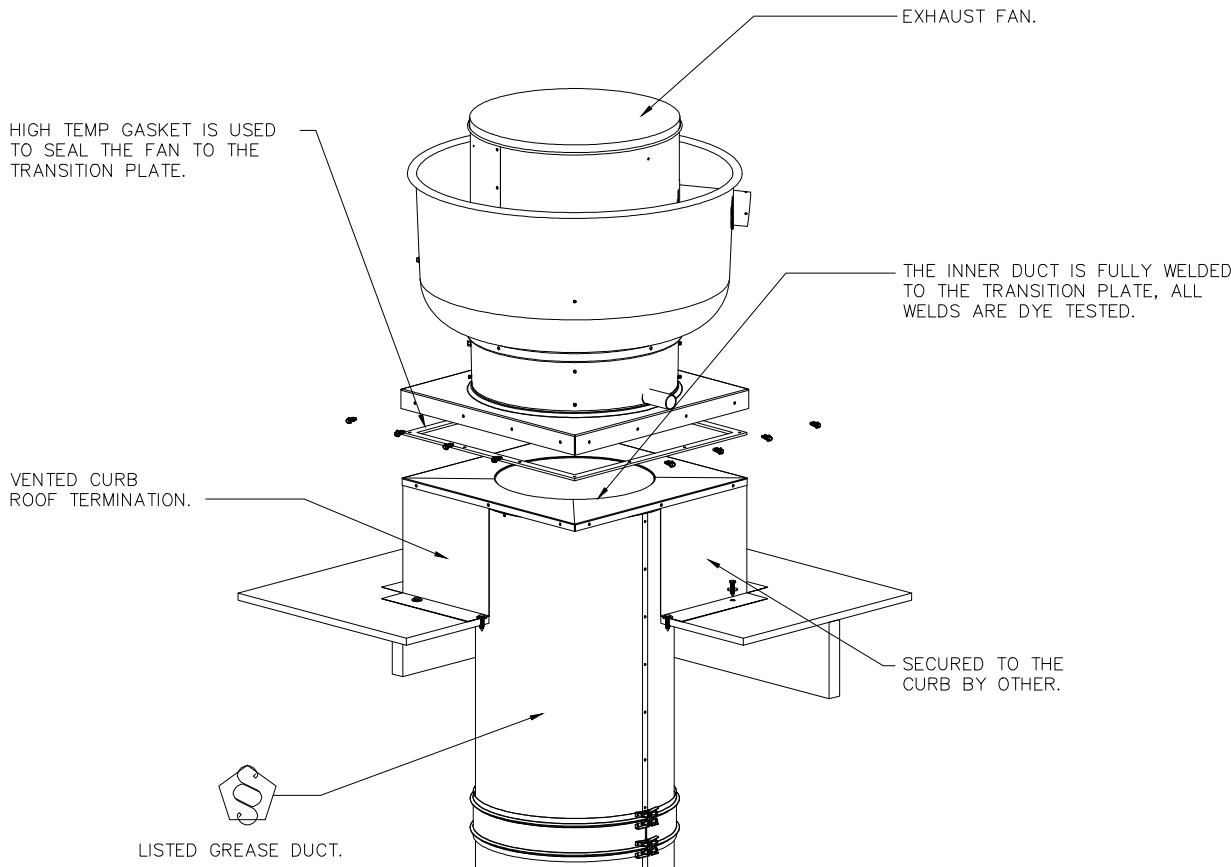
NFPA #96
NSF
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

NOTE:
AS PER NFPA 17A, PULL STATION
SHALL BE NO LESS THAN 10' FROM
HOOD AND NOT FARTHER THAN 20'
FROM HOOD AND MUST BE LOCATED
IN PATH OF EGRESS.

ANSUL PULL STATION DETAIL

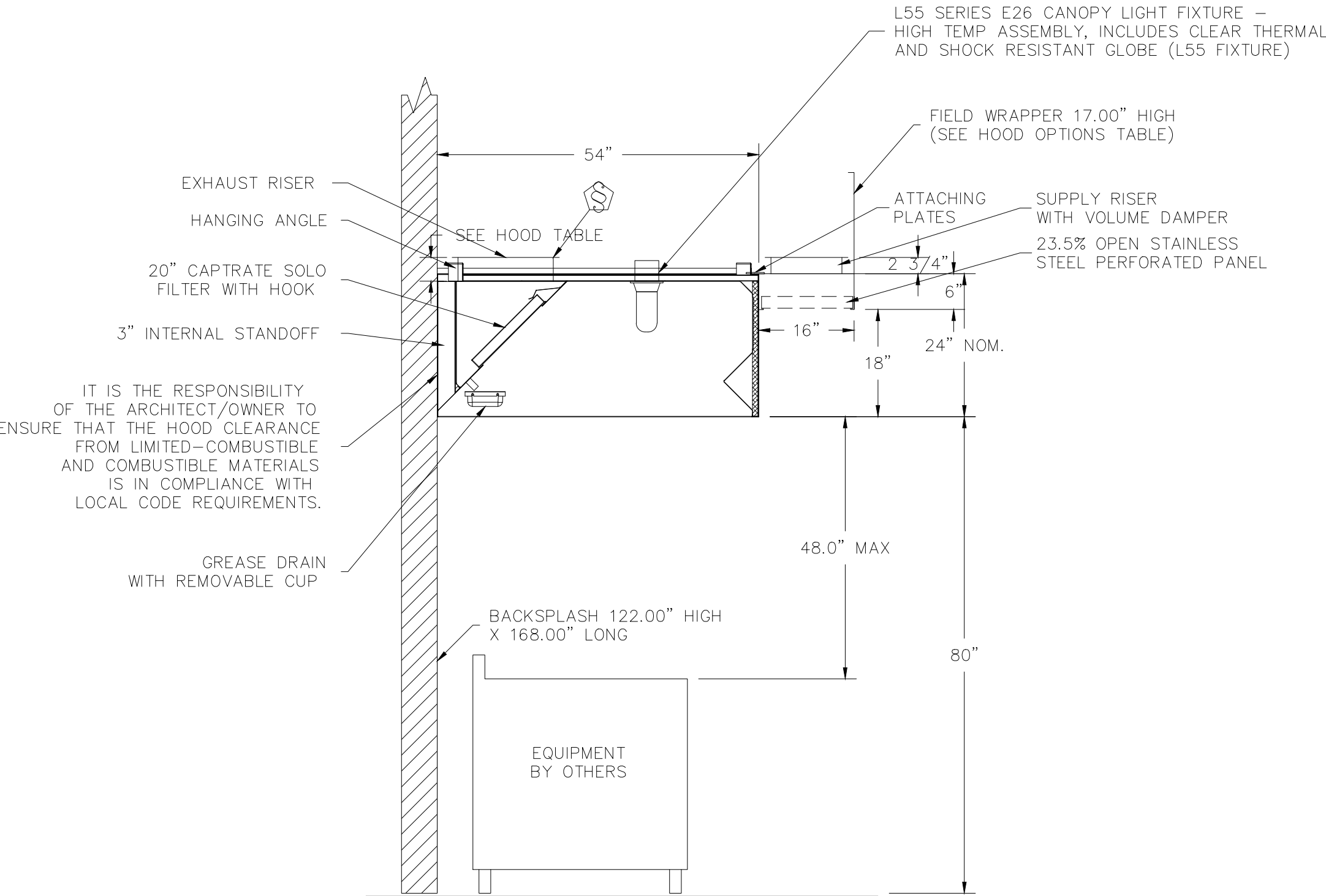
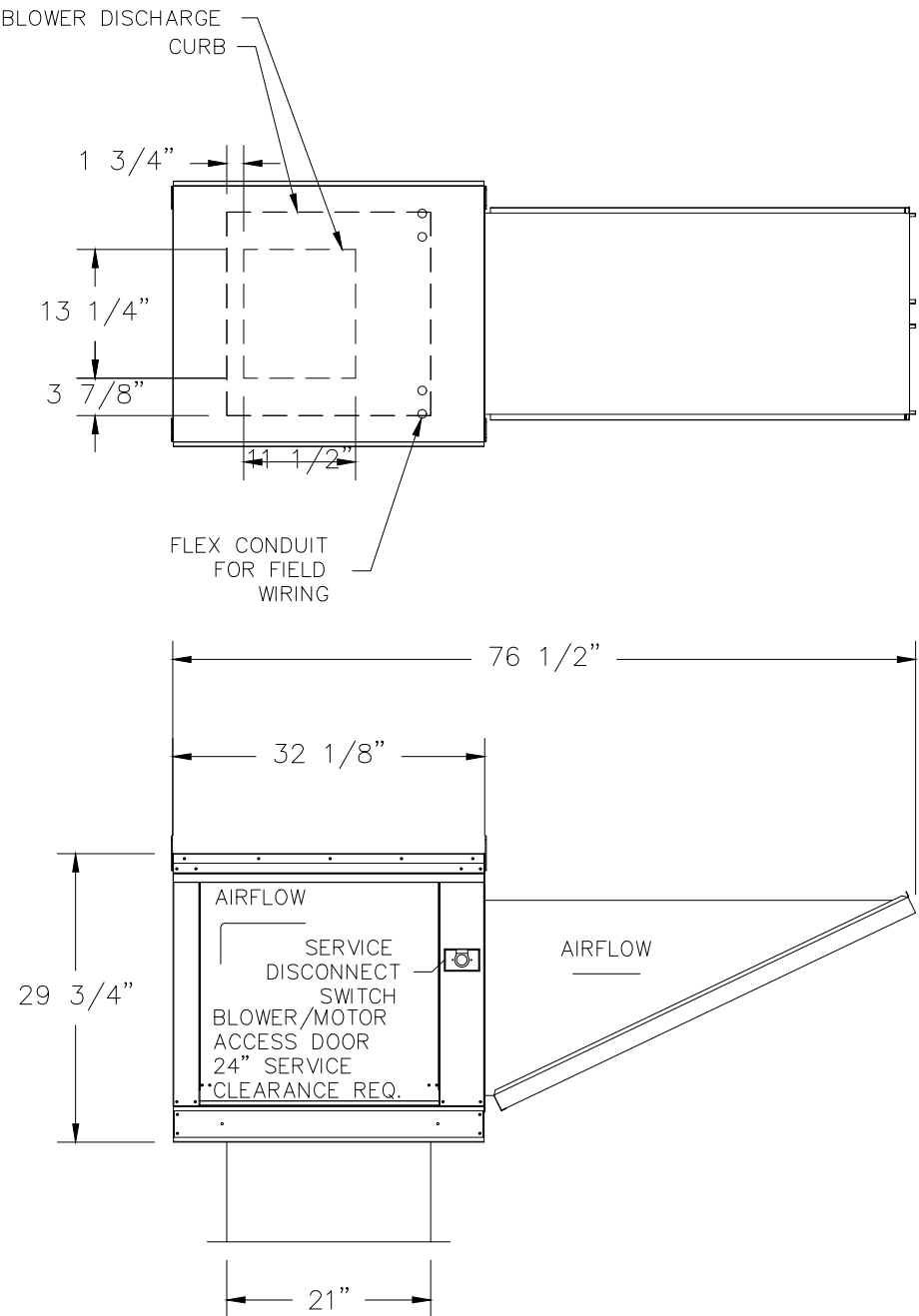


EXPOSED REMOTE FIRE PROTECTION
PULL STATION DETAIL



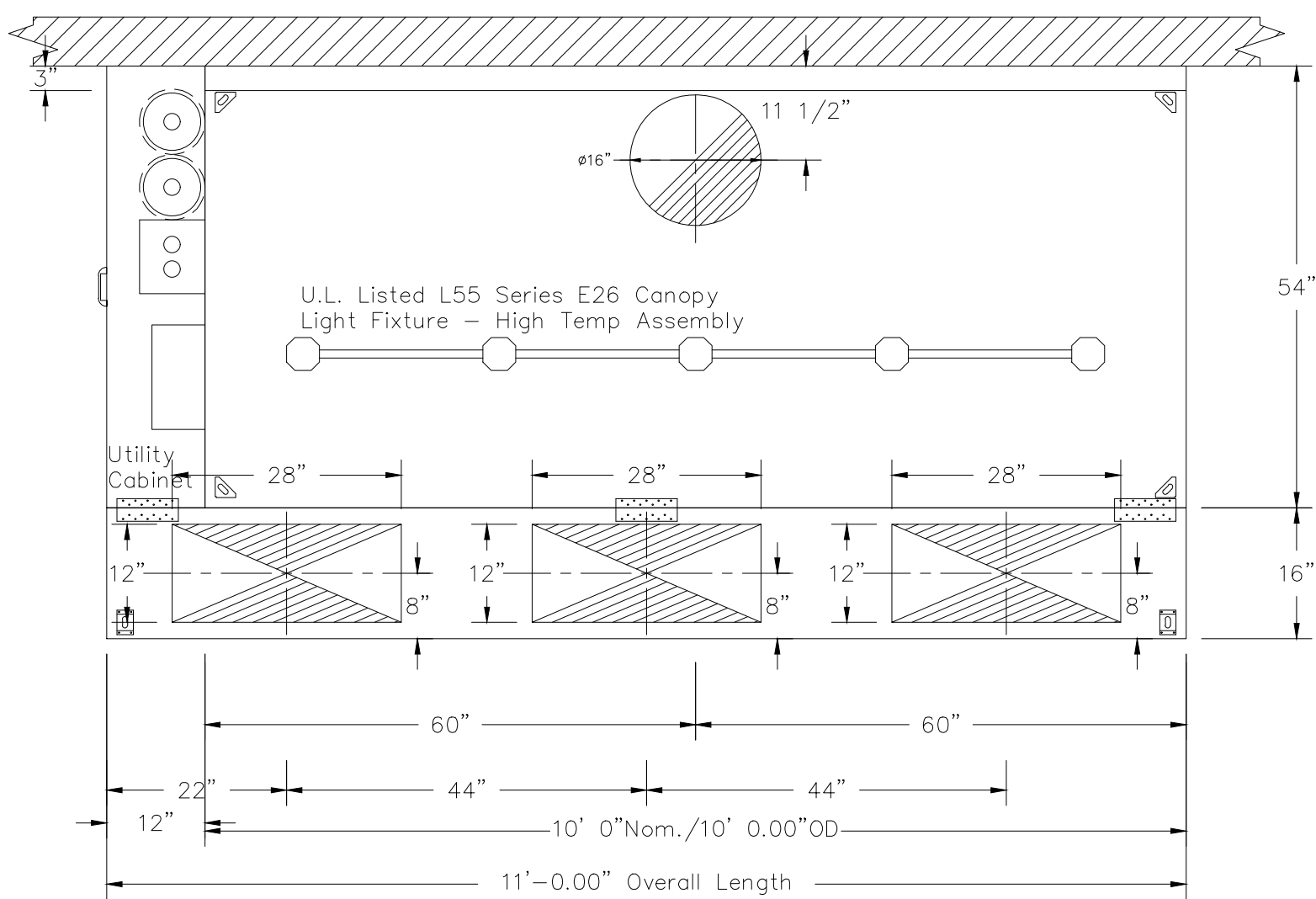
EF-2 – A1-15D – SUPPLY FAN (SF)

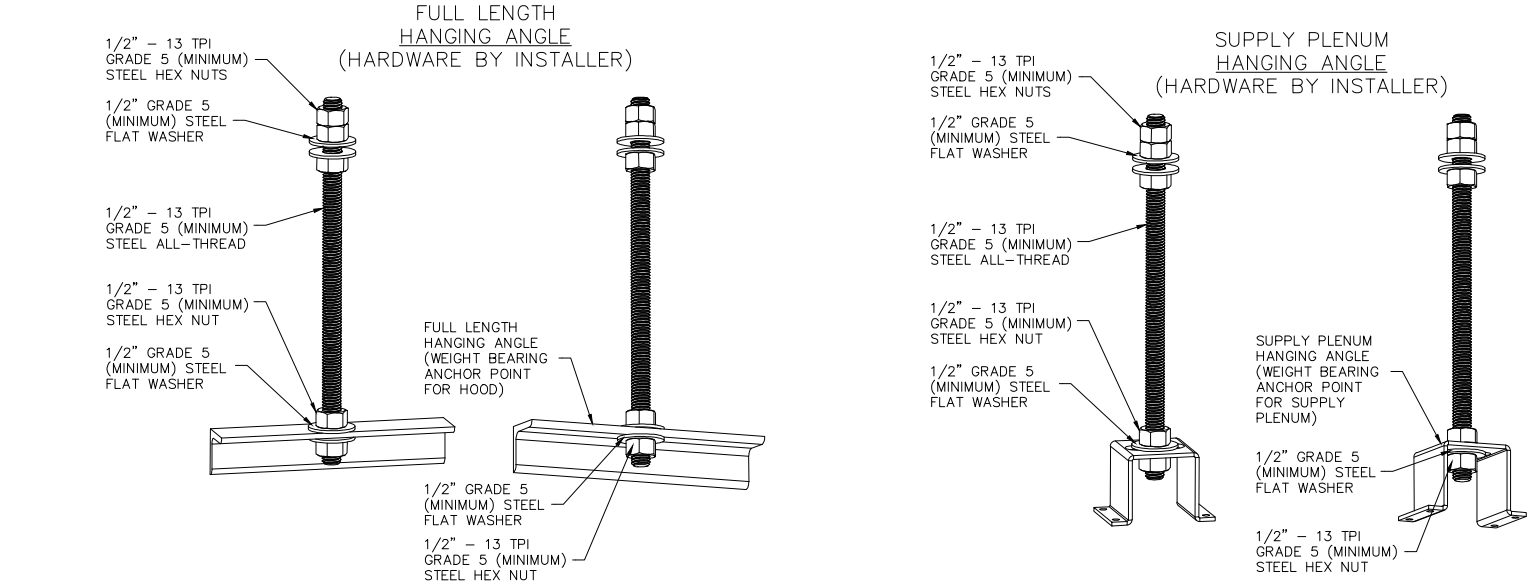
1. UNTEMPERED SUPPLY UNIT WITH 15" DIRECT DRIVE FAN IN SIZE #1 HOUSING
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE – AIR FLOW RIGHT -> LEFT
4. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.



SECTION VIEW – MODEL 5424ND-2-PSP-F
HOOD – #1

PLAN VIEW – Hood #1
10' 0.00" LONG 5424ND-2-PSP-F





ASSEMBLY INSTRUCTIONS

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

ASSEMBLY INSTRUCTIONS

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

AIR BALANCE SCHEDULE					
OUTSIDE	OUTSIDE AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	RESULTING PRESSURES
EXIST. RTU #9A	575 (19%)	2425	3000		+575
EXIST. RTU #9B	300 (10%)	2700	3000		+300
EF-1 (HOOD 1)				2500	-2500
EF-2 (TLT. RM.)				90	-90
EF-3 (TLT. RM.)				190	-190
SF-1 (HOOD 1)	2000				+2000
TOTAL	2875	5125	6000	2780	+95

OUTSIDE AIR CALCULATIONS

THE FOLLOWING IS BASED ON NCMC TABLE 403.3 MINIMUM VENTILATION RATES FOR OUTSIDE AIR REQUIREMENTS (EQUATION 4+1)

UNIT LABEL	OCCUPANCY CATEGORY	AREA A_z	ESTIMATED MAX. OCCUPANCY P_z	OUTSIDE AIR REQUIRED (CFM) $P_z \times R_p$	ZONE AIR DISTR. EFF. E_z	TOTAL $0.300/1.0 = 0.300$	EXHAUST AIRFLOW RATE CFM/SQ. FT. 0.7 CFM/SQ. FT.	
RTU #9A	DINING	0,430	7.5 PEOPLE PER 1,000 S.F.	70.0 CFM PER PERSON	$(30 \times 7.5) + (0.420 \times .18) = 0.300$	1.0*	0,300/1.0 = 0,300	N/A
RTU #9A	KITCHEN	0,675	N/A	N/A	$(N/A) + (N/A) = N/A$	N/A	N/A	675 X 0.7 = 472
RTU #9B	DINING	0,813	7.5 PEOPLE PER 1,000 S.F.	70.0 CFM PER PERSON	$(57 \times 7.5) + (0.813 \times .18) = 0.574$	1.0*	0,574/1.0 = 0,574	N/A
								EXH. HOOD (2,500 CFM)

A_z — ZONE FLOOR AREA
 P_z — ZONE POPULATION
 R_p — PEOPLE OUTDOOR RATE
 E_z — ZONE AIR DISTRIBUTION EFFECTIVENESS

* ALL SYSTEMS ON THIS PROJECT ARE SINGLE ZONE SYSTEMS WHERE ONE AIR HANDLER SUPPLIES A MIXTURE OF OUTDOOR AIR AND RECIRCULATED RETURN AIR TO ONLY ONE ZONE, SO NCMC SECTION 403.3.2.1 ALLOWS THE E_z OF 1.0 TO BE UTILIZED.

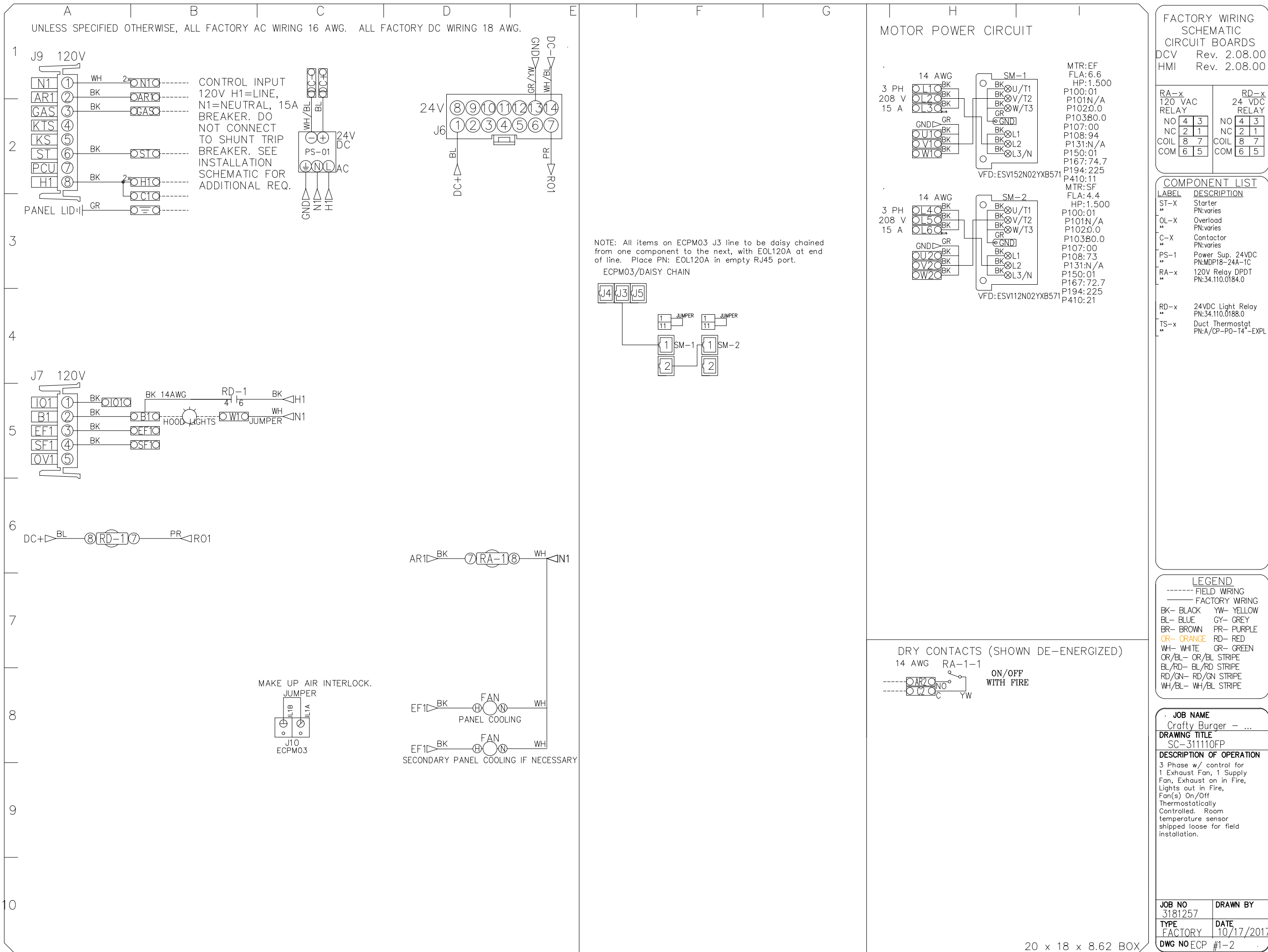
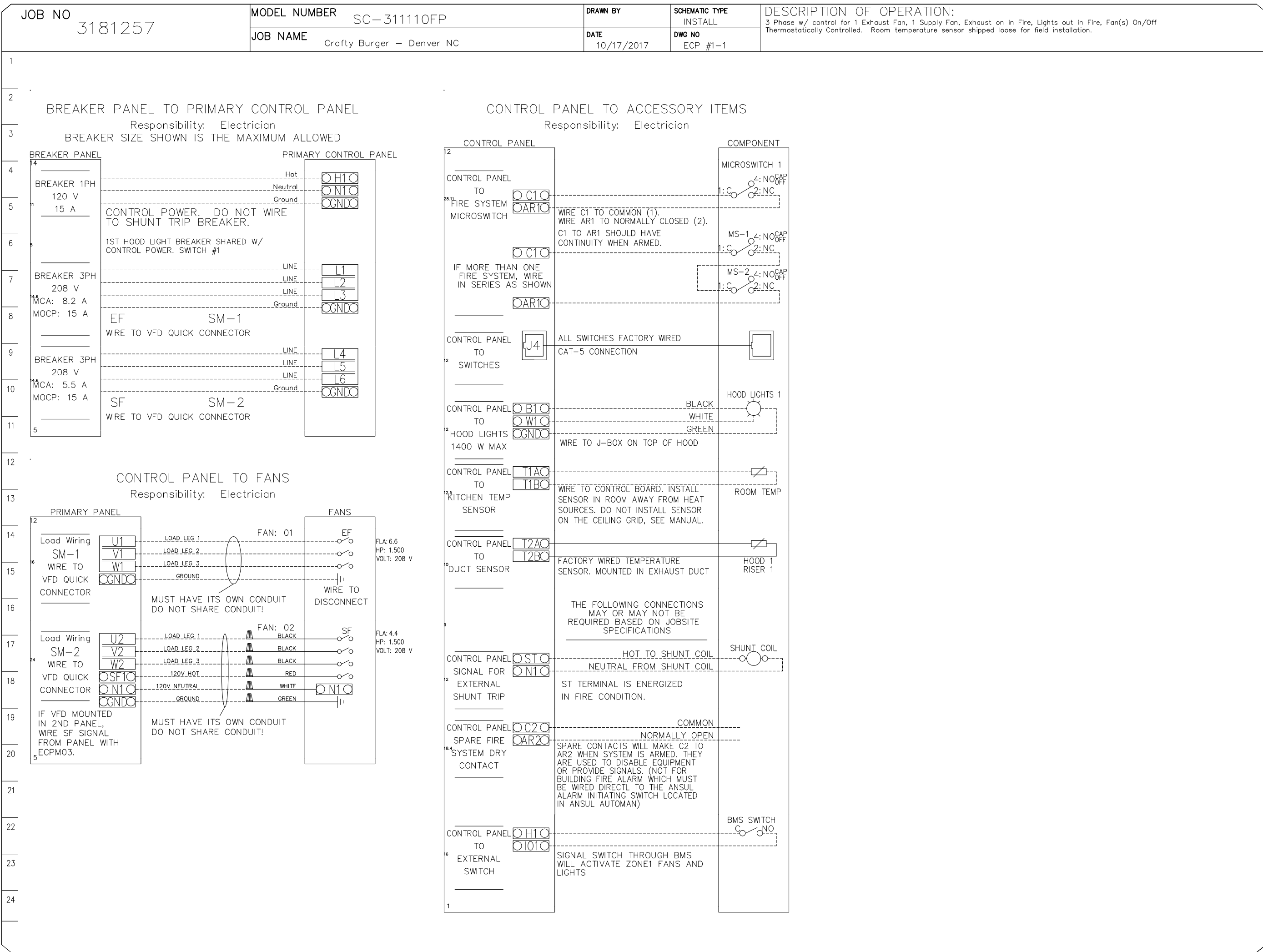
FAN SCHEDULE

LABEL	TYPE OF UNIT — AREA SERVED	MANUFACTURER & MODEL NO.	CFM	SP	MOUNTING ARRANGEMENT	MOTOR H.P.	ENCLOSURE TYPE	RPM	VOLTAGE	NOTES
EF-1	REFER TO HOOD DETAILS AND DPECIFICATIONS ON SHEET M-2.		—	—	—	—	—	—	—	—
EF-2	CABINET FAN — REFER TO PLANS	PENN ZEPHYR Z6	90	.125"	CEILING MOUNTED	50 WATTS	OPEN DRIP PROOF	1055	115V/1ø	1
EF-3	CABINET FAN — REFER TO PLANS	PENN ZEPHYR Z7	190	.125"	CEILING MOUNTED	68 WATTS	OPEN DRIP PROOF	1640	115V/1ø	1

NOTES: 1.) REFER TO ELECTRICAL PLANS FOR CONTROL.

ELECTRICAL PACKAGES — Job#3181257

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	Ø	H.P.	VOLT FLA
1		SC-31110FP	Utility Cabinet Left	03 — Utility Cabinet Left	1 Light	Smart Controls Thermostatic Control	EF	Exhaust	3	1.500	208 6.6
				Hood # 1	1 Fan		SF	Supply	3	1.500	208 4.4



REV	DESCRIPTION	BY
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Recovery Rate Needed (GPH):	193
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- ## SPECIFIC PLUMBING NOTES
- ① 3/8" WATER CONNECTION TO ICE BREWER, COFFEE BREWER AND SODA MACHINE SHALL HAVE A BACKFLOW PREVENTER. BACKFLOW FOR EACH MACHINE SHALL BE A "WATTS" SD3 3/8".
<http://media.wattswater.com/es-sd3.pdf> *ASSE 1022 Approved Dual Check with Atmospheric Vent.
 - ② 3/8" WATER CONNECTION TO ICE MAKER SHALL HAVE A BACKFLOW PREVENTER. BACKFLOW FOR EACH MACHINE SHALL BE A "WATTS" SD3 3/8".
<http://media.wattswater.com/es-sd3.pdf> *ASSE 1022 Approved Dual Check with Atmospheric Vent.
 - ③ 1/2" C.W. TRAP PRIMER BL. FL. TO FLOOR DRAIN P-TRAP.
 - ④ P-TRAP SERVING TRENCH DRAIN SHALL HAVE A 1/2" TRAP PRIMER CONNECTION.

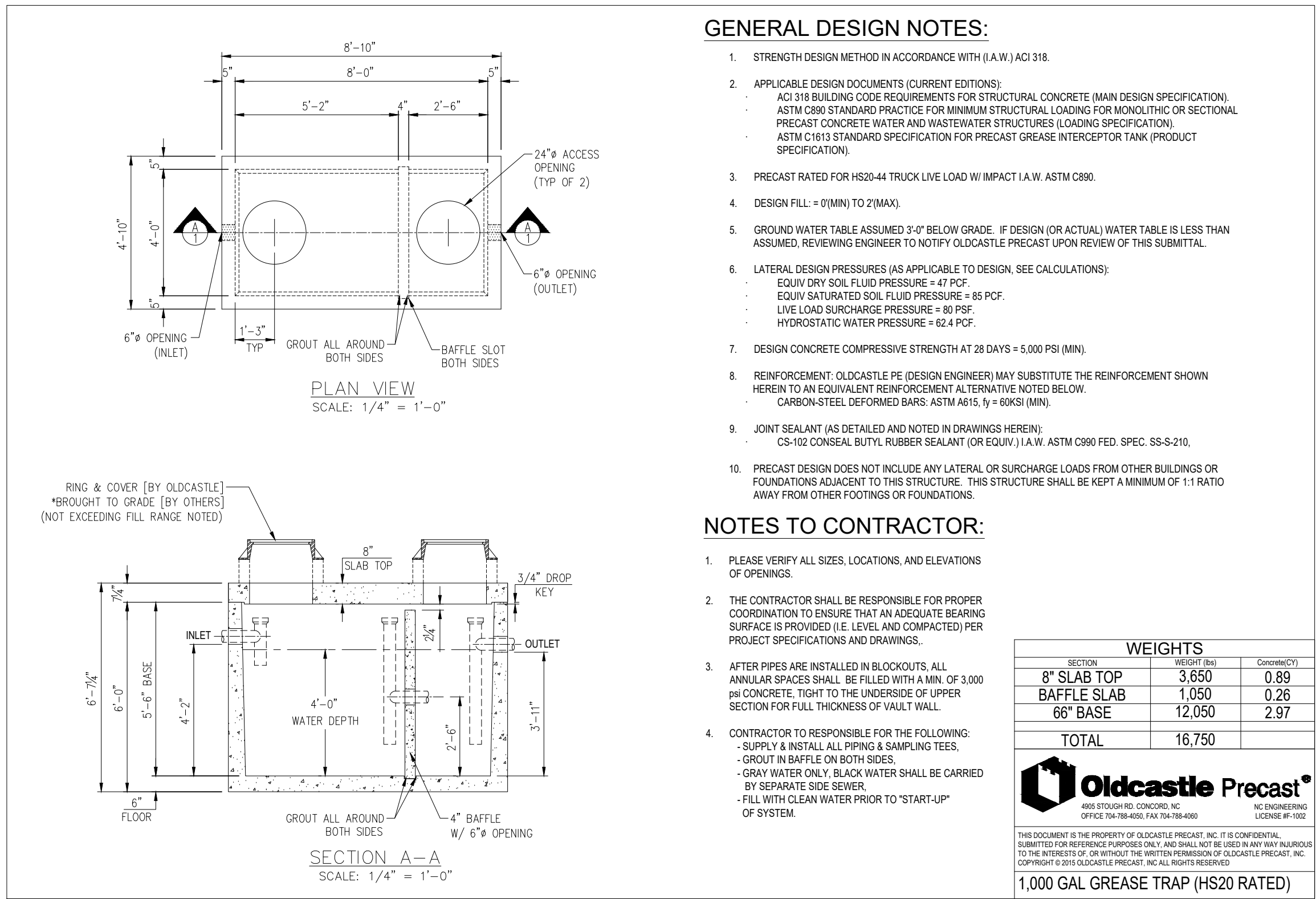
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PLUMBING FIXTURE SCHEDULE

P-1 (HANDICAPPED FLOOR MOUNTED FLUSH-TANK WATER CLOSET) SHALL BE AN AMERICAN STANDARD MODEL 270AA.001 CADET 3 RIGHT HEIGHT ELONGATED 1.6 GPF TOILET, VITREOUS CHINA, CADET FLUSHING SYSTEM, TANK TYPE: FLOOR MOUNTED, FLOOR-OUTLET, WITH AMERICAN STANDARD OPEN FRONT HEAVY-DUTY COMMERCIAL SEAT MODEL 5501.100. * TOILET LEVER HANDLE SHALL BE LOCATED ON ACCESSIBLE SIDE OF TOILET.	
WATER CLOSET: https://goo.gl/kP4iSI	TOILET SEAT: https://goo.gl/120eyk
P-2 (HANDICAPPED URINAL AND FLUSH VALVE) SHALL BE AN AMERICAN STANDARD WASHROOM MODEL 6501.511 3/4" TOP SPUD, 0.125 TO 1.0 GPF. URINAL INCLUDES AMERICAN STANDARD MANUAL FLUSH VALVE MODEL 6590.001 3/4" TOP SPUD. URINAL & VALVE: https://goo.gl/yJstAT	
P-3 (HANDICAPPED WALL HUNG LAVATORY) SHALL BE AN AMERICAN STANDARD LUCERNE LAVATORY MODEL 0356.041 (CENTER HOLE ONLY), VITREOUS CHINA, WALL MOUNT WITH EXPOSED BRACKET SUPPORT. FAUCET SHALL BE A "AMERICAN STANDARD" MODEL 1340M.105 METERING FAUCET W/MIXING VALVE SET TO 110°F. UNIT IS ADA COMPLIANT, ADJUSTABLE RUN TIME FROM 2 TO 15 SECONDS, OPENS WITH PUSH, 0.20 MAX GALLON/CYCLE, WATER PIPING AND P-TRAP SHALL BE COVERED WITH AN UNDER-SINK PROTECTIVE PINE COVER KIT BY TRUEBRO (TRUEBRO.COM) OR APPROVED EQUIVALENT. LAVATORY: https://goo.gl/2Rkz3N FAUCET: https://goo.gl/o6WUoB	
P-4 (S.S. HAND SINK W/FAUCET) COORDINATE FINAL SPECIFICATIONS WITH ARCHITECT/OWNER PRIOR TO BID.	
P-5 (S.S. PREP SINK W/FAUCET) COORDINATE FINAL SPECIFICATIONS WITH ARCHITECT/OWNER PRIOR TO BID.	
P-6 (S.S. 3 COMPARTMENT SINK W/FAUCET) COORDINATE FINAL SPECIFICATIONS WITH ARCHITECT/OWNER PRIOR TO BID.	
P-7 (FLOOR MOUNTED INTERIOR CANWASH/MOP RECEPTOR) SHALL BE A FLORESTONE #50 36X36X6" MOLDED MOP BASIN WITH 3" OUTLET. PROVIDE WITH MR-371 THREADED FAUCET WITH WALL BRACE, PAUL HOOK AND APPROVED VACUUM BREAKER, MR-370 HOSE & HOSE BRACKET, MR-372 MOP HANGER, MR-373 BUMPER GUARDS AND MR-377 STAINLESS TIE WALL GUARD. SINK: https://goo.gl/Nnnh75Y FAUCET/ACCESSORIES: https://goo.gl/lwcWM7	
P-8A (FLOOR DRAIN) SHALL BE A JOSAM 30003-A SERIES COATED CAST IRON FLOOR DRAIN. 3"Ø PIPE CONNECTION, 6"Ø DRAIN TOP, STRAINER TYPE 6A. TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEILCO INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET AND ADJUSTABLE SATIN NIKALOY ROUND SUPER-FLO STRAINER. DRAIN: https://goo.gl/OG5ily	
P-8B (FLOOR DRAIN WITH TRAP PRIMER) SHALL BE A JOSAM 30003-305 SERIES COATED CAST IRON FLOOR DRAIN WITH 1/2" TRAP PRIMER. PIPE CONNECTION, 6"Ø DRAIN TOP, STRAINER TYPE 6A. TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEILCO INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET AND ADJUSTABLE SATIN NIKALOY ROUND SUPER-FLO STRAINER. DRAIN: https://goo.gl/OG5ily	
P-9 (FLOOR SINK W/SEDIMENT BUCKET) SHALL BE A JOSAM 49340A-3-31 SERIES SQUARE CAST IRON 8" DEEP SUPER-FLO-SEPTOR FLOOR SINK WITH PORC-COATED INTERIOR, DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, BOTTOM OUTLET AND ALUMINUM INTERNAL DOME STRAINER, AND CAST IRON, NON-TRAFFIC, PORC-COATED, ANTI-TILTING GRATE, WITH HALF GRATE AND ALUMINUM SEDIMENT BUCKET. DRAIN: https://goo.gl/TcUVCG	
P-10 (AUTOMATIC TRAP PRIMER) SHALL BE A IPS CORPORATION "SIOUX CHIEF" MODEL 695 TRAP PRIMER WITH VACUUM BREAKER. AUTOMATIC TRAP PRIMER VALVE SHALL ACTIVATE WITH A 10 PSIG PRESSURE DROP BETWEEN 30-150 PSIG. DRAIN: https://goo.gl/WqkVxK	
P-11A (TRENCH DRAIN CATCH BASIN) SHALL BE A "ZURN" MODEL 2887-6-HD CATCH BASIN - 6" X 20" - HIGH DENSITY POLYETHYLENE (HDPE). CATCH BASIN: https://goo.gl/5oHjNb	
P-11B (TRENCH DRAIN) SHALL BE A "ZURN" MODEL 2886-HD, 6" WIDE HIGH DENSITY POLYETHYLENE DRAIN SYSTEM WITH CENTER 4"Ø DRAIN. TRENCH TO BE PROVIDED WITH HEAVY DUTY GRATE. TRENCH: https://goo.gl/xbgdVR	
P-12 (2" STUDOR VENT - AIR ADMITTANCE VALVE) SHALL BE A IPS CORPORATION "STUDOR MINI-VENT", 2" VENT. * http://www.ipscorp.com/plumbing/studor/minivent	
P-13 (HOT WATER CIRCULATOR PUMP W/REMOTE TIMER) SHALL BE A "GRUNDFOSS" MODEL #007-F5, GRANGER ITEM #4PC90, INLINE CIRCULATOR PUMP, CLOSED LOOP SYSTEM, 1/25 HP, 1 PHASE, VOLTAGE 115, 3/4" INLET/OUTLET, WET ROTOR, MAINTENANCE FREE. TIMER SHALL BE A "INTERMATIC" MODEL #MIL72EQUT2H-120, GRANGER ITEM #20XF62, 120V/1Ø, 21 AMPS, MAX. TIME SETTING: 23 HR. 45 MIN. RECIRCULATING PUMP: https://goo.gl/eyRuiI TIMER: https://goo.gl/6T2Jv2	
P-14 (GAS WATER HEATER - DIRECT VENT - SEALED COMBUSTION) SHALL BE A STATE "ULTRA FORCE" MODEL SUFFLO 199NE(A) GAS FIRED COMMERCIAL WATER HEATER, 199,900 BTU INPUT TO PRODUCE 235 GALLONS PER HOUR OF HOT WATER AT 100 DEGREE F. INSULATED GLASSLINED 100 GALLON STORAGE TANK, WATER HEATER SHALL MEET ENERGY STAR AND ENERGY STAR CERTIFICATIONS OF ASHRAE SECTIONS 90-60A AND NAEGA REQUIREMENTS FOR ENERGY CONSERVATION. * HEATER SHALL BE PROVIDED WITH OPTIONAL CONCENTRIC VENT KIT. WATER HEATER: https://goo.gl/eh4Uok	
P-15 (S.S. PRE-RINSE SINK W/FAUCET) COORDINATE FINAL SPECIFICATIONS WITH ARCHITECT/OWNER PRIOR TO BID.	
P-16 (1/2" MIXING VALVE) 1/2" MIXING VALVE SHALL BE A "WATTS" MODEL LF1170-PX-M2 SET AT 110°. LEAD FREE* CAST COPPER SILICON ALLOY BODY CONSTRUCTION MIXING VALVE: https://goo.gl/ESnqKq	
NOTES: 1.) ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL. 2.) PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.	

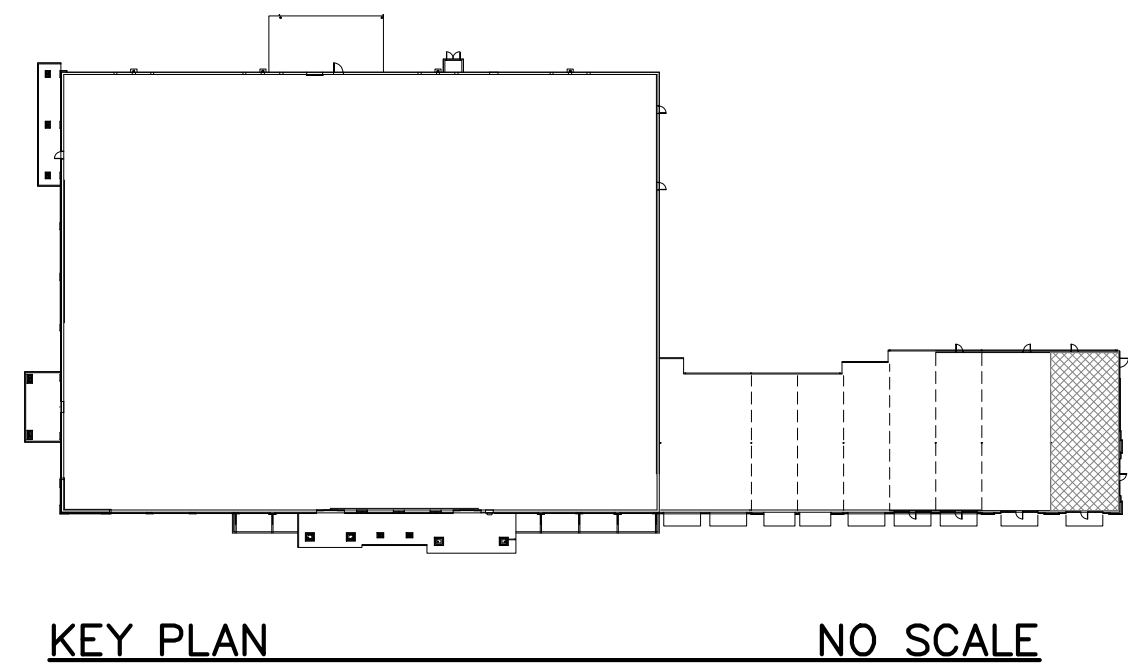
GENERAL PLUMBING NOTES

- 1.) DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION. CONTRACTOR IS RESPONSIBLE TO INSTALL ALL FIXTURES AND EQUIPMENT IN STRICT COMPLIANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS. THIS REQUIREMENT IS TO SUPERSEDE ANY DETAILS OR INFORMATION CONTAINED ON THESE DRAWINGS.
- 2.) ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
- 3.) THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
- 4.) ALL MATERIAL SHALL BE NEW.
- 5.) ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- 6.) ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- 7.) THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
- 8.) ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 9.) THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ONE YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- 10.) VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- 11.) ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
- 12.) ALL BELOW FLOOR SLAB WATER PIPING SHALL BE FLEXIBLE "TEMPRITE PEX (CROSS-LINKED POLYETHYLENE)" INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.LUBRIZOL.COM. ALL ABOVE SLAB WATER PIPING SHALL BE "FLOWGUARD GOLD CPVC" INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.FLOWGUARDGOLD.COM. ALL WATER PIPING AS SPECIFIED OR APPROVED EQUAL. ALL 2" WATER PIPING SHALL BE TYPE "L" COPPER AND TYPE "K" COPPER FOR 2 1/2" AND LARGER. (OR APPROVED EQUAL)
- 13.) SOIL, WASTES AND VENT PIPING SHALL BE PVC #40 DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC, IF APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION, OTHERWISE CAST IRON. PVC SHALL NOT BE INSTALLED IN A/C RETURN AIR PLENUM OR PENETRATE FIRE RATED WALLS OR FLOORS.
- 14.) AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC #40 OR COPPER DRAIN WASTE AND BENT PIPE AND FITTINGS. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERIOR PIPING. INSTALL ALL CONDENSATE PIPING FOR AIR CONDITIONING UNITS AS REQUIRED PER LOCAL CODES.
- 15.) FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS AT EACH GROUP OF FIXTURES. INSTALLATION OF WATER HAMMER ARRESTORS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND INSTALL AN APPROVED WATER HAMMER ARRESTOR AT EACH FIXTURE OR DEVICE THAT HAS A SOLENOID WATER CONTROL VALVE.
- 16.) PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS. JOSAM 58890.
- 17.) INSULATE LINES AS FOLLOWS:
 - A.) 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON BOTH C.W. & H.W. WHEN PIPING IS LOCATED OUTSIDE OF THE INSULATED BUILDING ENVELOPE.
 - B.) 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON HW PIPING & H.W. RECIRC. PIPING, ONLY WHEN THERE IS A H.W. RECIRCULATING PIPING SYSTEM.
 - C.) CONDENSATE PIPING: 1/2" THICK ARMAFLEX PREFORMED OR APPROVED EQUAL.



(1,000 GALLONS)
2 GREASE TRAP DETAIL
NO SCALE

P-3



LIGHTING FIXTURE SCHEDULE						
LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.
A	DOWNLIGHT		LED	120	20W	RAB NDR20D/E2
B	RECESSED 2'X4' TROFFER	WHITE	LED	120	38W	RAB TRLED2X4-37N/D10
C	EXTERIOR LED WALL LIGHT	BRONZE	LED	120	24W	LITHONIA WSQ-LED 1-700/30K SR3 PE
EM	EMERGENCY EGRESS	WHITE		120	INCLUDED	LITHONIA EU2 LED M12
EX	EXIT SIGN W/ REM HEAD	WHITE	RED	120	INCLUDED	LITHONIA LHQM LED R
REMARKS						
W/ PHOTOCELL CONTROL						
W/ BATTERY BACKUP						
W/ BATTERY BACKUP / DUAL HEAD ELAT QWP						

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE

PRESCRIPTIVE ☒

PERFORMANCE ☐

ENERGY COST BUDGET ☐

PROVIDE A STANDARD RISER DIAGRAM WHICH INDICATES DESIGNATED POINTS FOR CHECK METERING. PROVIDE A STANDARD PANEL SCHEDULE DESCRIPTION WHICH IDENTIFIES DIFFERENT ENDUSE LOADS.

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURESEE SCHEDULE ON DRAWINGS

NUMBER OF LAMPS IN FIXTURESEE SCHEDULE ON DRAWINGS

BALLAST TYPE USED IN FIXTURESEE SCHEDULE ON DRAWINGS

NUMBER OF BALLASTS IN FIXTURESEE SCHEDULE ON DRAWINGS

TOTAL WATTAGE PER FIXTURESEE SCHEDULE ON DRAWINGS

TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED962.00 VS 2,020.00

TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWEDN/A

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)

MOTOR HORSEPOWERN/A

NUMBER OF PHASESN/A

MINIMUM EFFICIENCYN/A

MOTOR TYPEN/A

NUMBER OF POLESN/A

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA ENERGY CODE 2012, CHAPTER 5.

SIGNED:

NAME: TODD W. CAREY, P.E.

TITLE: NORTH CAROLINA PROFESSIONAL ENGINEER #9079

ELECTRICAL NOTES:

1. GENERAL: ALL WORK SHALL CONFORM TO THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL JURISDICTIONAL CODES.

THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM, AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN.

THE CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND EQUIPMENT WITH THE REPRESENTATIVES OF THE OTHER TRADES INVOLVED BEFORE STARTING INSTALLATION OF THOSE ITEMS.

COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES, CONDUIT, AND SLEEVES TO BE SET IN CAST-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED. UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL SPECS ARE NOT INTENDED TO BE PROPRIETARY, SUBSTITUTIONS WILL BE ACCEPTABLE FOR EQUAL RATED AND LISTED UNITS.

2. SCOPE: EXCEPT WHERE OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS BY "FUTURE," "BY OTHERS," OR BY A SIMILAR NOTATION, IT IS THE INTENT THAT THE CONTRACTOR FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS NECESSARY TO PROVIDE ALL SYSTEMS IN COMPLETE AND OPERATING CONDITION.

3. EXCAVATE AS NECESSARY FOR THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT. VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES BEFORE EXCAVATING AND EXERCISE CARE TO AVOID DAMAGE TO SUCH ITEMS DURING EXCAVATION. BACKFILL WITH EARTH FREE OF LARGE CLODS, LARGE STONES AND FOREIGN DEBRIS, DEPOSITED IN 6" LAYERS AND COMPACTED TO A DENSITY OF NOT LESS THAN THAT OF THE SURROUNDING UNDISTURBED MATERIAL.

4. MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE AS INDICATED ON THE DRAWINGS; SUBSTITUTIONS SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION OF THE ITEMS. THE ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING AUTHORITY.

5. GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.

6. SHARED NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED UNLESS INSTALLED IN ACCORDANCE WITH NEC-210.4

7. CONDUITS: PROVIDE CONDUITS WHERE CALLED FOR ON PANEL SCHEDULES. ELECTRICAL METALLIC TUBING (EMT) SHALL BE INSTALLED ONLY IN DRY LOCATIONS, IN CONCRETE ABOVE GRADE, AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE.

CONDUITS INSTALLED UNDERGROUND SHALL BE POLYVINYLCHLORIDE (PVC) AND SHALL NOT BE SMALLER THAN 3/4" TRADE SIZE. WHERE PVC CONDUIT IS INSTALLED UNDERGROUND, ELBOWS TURNING UP AND CONDUIT EMERGING ABOVE GRADE SHALL BE RSC. THE TOPS OF CONDUITS SHALL NOT BE LESS THAN 24" BELOW FINISHED GRADE. PVC CONDUIT INSTALLED ABOVE GRADE OR DIRECT-BURIED IN EARTH SHALL BE NEMA TC2 TYPE EPC-40-PVC (SCHEDULE 40) EXCEPT THAT WHERE UNDER AREAS SUBJECT TO HEAVY VEHICULAR TRAFFIC, IT SHALL BE NEMA TC2 TYPE EPC-80-PVC (SCHEDULE 80).

ALL ARMOR CLAD CABLE (AC CABLE) WIRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.

8. CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG (CU), OR #12 AWG (AL), CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #18 AWG CU. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES EXCEPT WITHIN WIREWAY OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS, PULL BOXES OR WIREWAYS AND TERMINAL STRIP TERMINALS FOR IDENTIFICATION OF CIRCUITS.

CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICES, EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUT TYPE CONNECTORS. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION OR PRESSURE TYPE TERMINAL LUGS, OR IN PRESSURE TERMINALS. COMPRESSION SPLICES USED ON CONDUCTORS #10 AWG AND SMALLER, SHALL BE THE SELF-INSULATED TYPE; OTHER SPLICES SHALL BE INSULATED USING 3M #33+ OR #88 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCHCAST OR EQUAL POTTING COMPOUND.

9. PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC. WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORK SPACE.

10. LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS, AND SHALL BE INSTALLED COMPLETE WITH LAMPS. FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE THE REQUIRED LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST.

11. TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE.

12. TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION.

13. ALL PANELBOARDS, UNLESS OTHERWISE NOTED, SHALL BE PROVIDED WITH PLUG-IN TYPE CIRCUIT BREAKERS.

ELECTRICAL SYMBOLS LEGEND			
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	DUPLEX RECEPTACLE, MTD. +18" AFF		TRANSFORMER - SIZE AS NOTED
	240 VOLT RECEPTACLE (HT. AS REQ.)		PANEL - SIZE AS NOTED
	QUADRUPLEX RECEPTACLE, MTD. +18"		MOMENTARY CONTACT PUSH BUTTON
	COUNTERTOP HT. RECEPTACLE +42"		F-FAN; M-MOTOR; P-PUMP
	SINGLE POLE SWITCH, MTD +47"		SPECIAL OUTLET - AS REQUIRED
	THREE-WAY SWITCH, MTD +47"		CKT. HOMERUN (B INDICATES PANEL)
	MANUAL STARTER SWITCH		"2" DESIGNATES CIRCUIT NUMBER
	DIMMER SWITCH, MTD +47"		EXIT SIGN; ONE SIDED, OR TWO SIDED
	SWITCH W/ ILLUM WHEN ON MTD +47"		EMERGENCY LIGHTING
	THREE-WAY SWITCH W/ OCCU SENSOR MTD. +47"		RECESSED MOUNTED LIGHTING FIXTURE
	SWITCH W/ OCCU SENSOR, MTD. +47"		B DESIGNATES FIXTURE TYPE
	JUNCTION BOX, FLUSH IF POSSIBLE		OVERHEAD OCCUPANCY SENSOR
	TELEPHONE / DATA OUTLET +18"		HIGHBAY HID LIGHTING FIXTURE
	DED. COMPUTER TERM. OUTLET +18"		B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH W/ STARTER		FLUORESCENT/LED LIGHTING FIXTURE
	DISCONNECT SWITCH		B DESIGNATES FIXTURE TYPE
	FLR. MTD. FLUSH DUPLEX RECEPTACLE		FLUORESCENT/LED STRIP LIGHTING FIXT
	FLR. MTD. FLUSH QUAD. RECEPTACLE		B DESIGNATES FIXTURE TYPE
	FLR. MTD. FLUSH PHONE/DATA OUTLET		
	FLR. MTD. FLUSH COMPUTER OUTLET		
	AREA SMOKE DETECTOR		
	HEAT DETECTOR		
	DUCT SMOKE DETECTOR		
	FIRE ALARM MAN. PULL STATION +47"		
	HORN WITH STROBE LIGHT, MTD. +80"		
	# BESIDE DEVICE IS CANDELLA RATING		
	STROBE LIGHT ONLY, MTD. +80"		
	# BESIDE DEVICE IS CANDELLA RATING		
			ISOLATED GROUND
			WEATHER-PROOF
			BELOW COUNTER
			TIME CLOCK - 24 HOUR
			GROUND FAULT INTERRUPTER
			ABOVE FINISHED FLOOR
			ELECTRIC WATER COOLER
			ABOVE SHOW WINDOW
			BELOW SHOW WINDOW
			FIRE ALARM CONTROL PANEL
			FIRE ALARM ANNUNCIATOR PANEL

1 FLOOR PLAN - ELECTRICAL

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

REV.	DESCRIPTION	BY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

E-1



FOOD SERVICE EQUIPMENT SCHEDULE

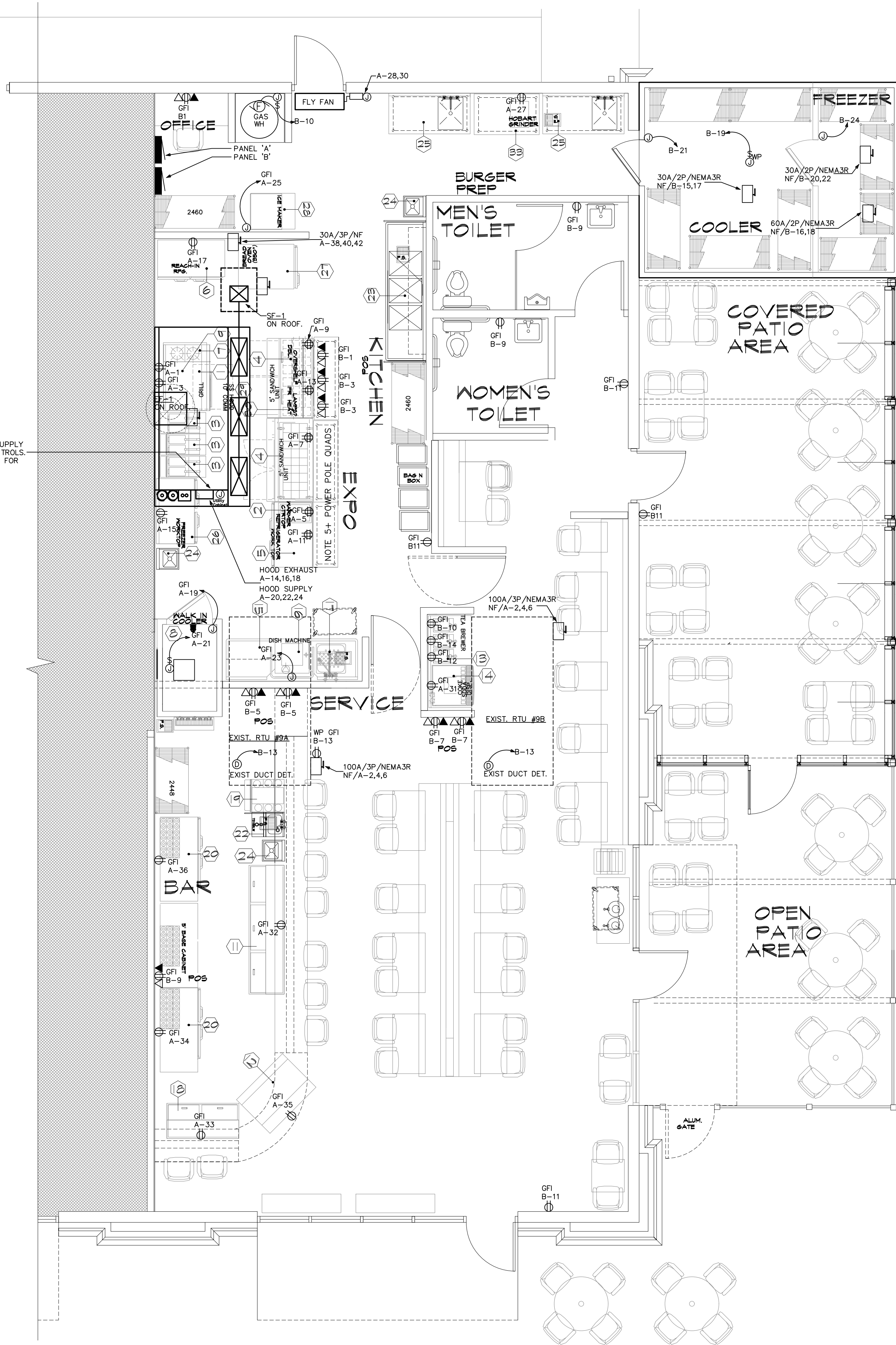
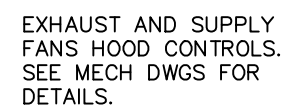
FOOD SERVICE EQUIPMENT SCHEDULE																			
		SUPPLY OWNER GC ?		INSTALL GC ?		DESCRIPTION	MANUFACTURER	MODEL #	V/PH	AMPS	HP	KW	CW	HWW	IW	CONN	BTU	ULNSF	certif.
ITEM	QTY																		
1	1	●	●			3" GAS FLAT GRILL	MARSHCOGN	MK366	120/60	-	-	-	-	-	-	3/4"	40/200	5A NSF	
2	1	●	●			COUNTERTOP FOOD WARMER	AVANTCO	W130	-	-	-	1.2	-	-	-	-	-	-	ETL SAN
3	5	●	●			50/25 LB. GAS FRYER	QUALITE	GL-4N6	-	-	-	-	-	-	-	1/2"	40/200	ETL SAN	
4	2	●	●			MESA TOP PREP TABLE	SERV-WARE	SPC0-24M	115/60/1	7.5	-	-	-	-	-	-	-	-	UL SAN
5	1	●	●			UNDER CUPBARS	SERV-WARE	VAC-48	115/60/1	5	-	-	-	-	-	-	-	-	UL NSF 7
6	1	●	●			2 OVENBACH IN RFS	SERV-WARE	RNR 2	115/60/1	4	-	-	-	-	-	-	-	-	UL NSF 7
7	1	●	●			2 BURNR. GAS PLATE	SERV-WARE	5PH-12	-	-	-	-	-	-	-	-	50/200	5A NSF	
8	1	●	●			WALK-IN KES COOLER	NORLAK	KL46	115/60/1	153.1	5/8	-	-	-	-	-	-	UL FLARE SPREAD 25 PRLA	UL NSF
9	1	●	●			50" CHEF BASE	SERV-WARE	CE40	115/60/1	6	-	-	-	-	-	-	-	-	UL SAN
10	1	●	●			BOTTLE COOLER	SERV-WARE	BC-45	115/60/1	1	-	-	-	-	-	-	-	-	UL SAN
11	1	●	●			CURVED GLASS RFS, DELI CASE	TRUE MFG.	TC65-48	115/60/1	1.8	1/8	1/8	-	-	-	-	-	-	UL NSF
12	1	●	●			5 GALLON ICED TEA BREWER	BUNN	- T503	120/60/1	15	-	1.8	1/4"	-	-	-	-	-	UL NSF-7
13	1	●	●			DROP IN BEVISE DISPENSER	COCA COLA	- BY	115/60/1	-	-	-	1/2"	-	HD	-	-	-	UL NSF-7
14	1	●	●			5.5. WAREWASHER CLEAN TABLE	EAGLE	CDTR-24	-	-	-	-	-	-	-	-	-	-	NSF
15	1	●	●			LONG TEMP DISHWASHER	GMA DISHWASHERS	ANC	115/60/1	18	-	1	1/2"	-	FS	-	40 RACKS PER	NR UL NSF	
16	1	●	●			5.5. WAREWASHER SOILED TABLE	EAGLE	D15-D10-48L	-	-	-	-	-	-	-	-	-	-	NSF
17	1	●	●			BOTTLE COOLER	SERV-WARE	BC-30	115/60/1	-	1	-	-	-	-	-	-	-	UL SAN
18	1	●	●			ICE BIN	REGENCY	600BSB30	-	-	-	-	-	-	-	-	-	-	UL NSF
19	2	●	●			BEVERAGE DISPENSER/COINAKER	SERV-WARE	BB6H-24	115/60/1	4.5	-	-	-	-	-	-	-	-	NSF
20	1	●	●			BAR DUMP SINK	REGENCY	600BS525212	-	-	-	-	-	1/2"	1/2"	FS	-	-	UL NSF
21	1	●	●			THREE COMPARTMENT SINK W/ OVERSINK POT RACK	REGENCY	600S3824212	-	-	-	-	-	1/2"	1/2"	FS	-	-	NSF
22	3	●	●			HAND SINK	SERV-WARE	HS05-GHP	-	-	-	-	-	1/2"	1/2"	D	-	-	NSF
23	2	●	●			PREP SINK	ADVANCE TAREGO	KMS-11B-30SR	-	-	-	-	-	1/2"	1/2"	FS	-	-	NSF
24	1	●	●			MORFOTOP FREEZER	SERV-WARE	UCF-48	115/60/1	4	-	-	-	-	-	-	-	-	UL NSF
25	1	●	●			BREAD OVEN	NAVCO	GB-3M	20/22										
26	1	●	●			ICEWASHER	SCOTTISH BREAD	CORRO	115/60/1	15.2	-	-	-	-	-	-	8 B50	-	ETL NSF
27	1	●	●			10" 55 CORN. HOOD	CAPTAIN AIRS	5044	120/208										
28	1	●	●			HEAT LAMPS	HATCO	GRAH 1B	?	-	-	250	-	-	-	-	2000 WATT TUNGSTEN HALOGEN	-	ETL NSF
29	1	●	●			12X16" CORNED WALK IN COOLER	NORLAK	?	-	-	-	-	-	-	-	-	-	-	UL NSF
30	1	●	●			56 WORK TABLE	EAGLE	TS046	-	-	-	-	-	-	-	-	-	-	NSF
31	1	●	●			MEAT CHOPPER	HOBART	4812	115/60/1	?	1/2	-	-	-	-	-	-	-	UL NSF

ALL EQUIPMENT MUST BE NSF/UL SANITATION APPROVED

ELECTRICAL NOTES:

- GENERAL: ALL WORK SHALL CONFORM TO THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL JURISDICTIONAL CODES.
- THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PORTION IS FOUND TO BE IN CONFLICT WITH THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM, AND SHALL PROCEED WITH THAT PORTION OF THE WORK UNTIL THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN.
- THE CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND EQUIPMENT WITH THE REPRESENTATIVES OF THE OTHER TRADES INVOLVED BEFORE STARTING INSTALLATION OF THOSE ITEMS.
- COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES, CONDUIT, AND WIRING TO BE INSTALLED IN CAST-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.
- UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL SPECS SHALL BE PROVIDED BY THE APPROPRIATE SUBCONTRACTOR. IT WILL BE ACCEPTABLE FOR EQUAL RATED AND LISTED UNITS.
2. SCOPE: EXCEPT WHERE OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS BY "FUTURE," "BY OTHERS," OR BY A SIMILAR NOTATION, IT IS THE INTENT THAT THE CONTRACTOR FURNISH, LABOR, MATERIALS, EQUIPMENT, AND TOOLS NECESSARY TO PROVIDE ALL SYSTEMS IN COMPLETE AND OPERATING CONDITION.
3. EXCAVATE AS NECESSARY FOR THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT. VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES BEFORE EXCAVATING AND EXERCISE CARE TO AVOID DAMAGE TO SUCH ITEMS DURING EXCAVATION. BACKFILL WITH CARE WITHIN 6" OF LARGE ROCKS AND STONES AND FOREIGN DEBRIS, DEPOSITED IN 6" LAYERS AND COMPACTED TO A DENSITY OF NOT LESS THAN THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
4. MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE INDIVIDUALLY IDENTIFIED AND SUBSTITUTIONS SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION. ITEMS TO BE IDENTIFIED AS ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING AUTHORITY.
5. GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.
6. SHARED NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED UNLESS INSTALLED IN ACCORDANCE WITH NEC-210.4
- CONDUITS INSTALLED UNDERGROUND SHALL BE POLYVINYLCHLORIDE (PVC) AND SHALL NOT BE SMALLER THAN 3/4" TRADE SIZE. WHEN INSTALLED UNDERGROUND, ELBOWS TURNING UP AND CONDUIT EMERGING ABOVE GRADE SHALL BE RSC. THE TOPS OF CONDUITS SHALL NOT BE LESS THAN 24" ABOVE FINISHED GRADE. PVC CONDUIT INSTALLED ABOVE GRADE OR DIRECT-BURIED IN EARTH SHALL BE NEMA TC2 TYPE EPC-40 PVC (SCHEDULE 40) TYPE, THAT WHERE UNDER GRADE, SUBJECT TO HEAVY FLEXIBULAR TRAFFIC, BE NEMA TC2 TYPE EPC-80-PVC (SCHEDULE 80).
- ALL ARMOR LAD CABLE (AC CABLE) WIRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.
8. CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG CU. ALL CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #18 AWG CU. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES. CONDUCTORS AT JUNCTION BOXES OR MARK CONDUCTORS IN PANELS, PULL BOXES OR WIREWAYS AND TERMINAL STRIP TERMINALS FOR IDENTIFICATION OF CIRCUITS.
- CONDUCTORS SHALL BE JOINED USING COMPRESSION SPICES, EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUTS. CONNET NUTS SHALL NOT BE USED. WIRE BE TERMINATED USING COMPRESSION OR PRESSURE TYPE TERMINAL LUGS, OR IN PRESSURE TERMINALS. COMPRESSION SPICES USED ON CONDUCTORS #10 AWG. AND SMALLER, SHALL BE THE SELF-TERMINATING TYPE. MINIMUM WIRE INSULATION LEAD IN, 5M #33+ OR #8B PLASTIC TAPE. SPICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SPODCAST OR EQUAL POTTING COMPOUND.
9. PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND REQUIRED BY THE DRAWINGS. TAG OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC, WHERE FEEDER SPICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORK SPACE.
10. LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS, AND SHALL BE INSTALLED COMPLETE WITH LAMPS. FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE UNIFORM LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST.
11. TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE.
12. TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION.
13. ALL PANELBOARDS, UNLESS OTHERWISE NOTED, SHALL BE PROVIDED WITH PLUG-IN TYPE CIRCUIT BREAKERS.

ELECTRICAL SYMBOLS LEGEND		NOTE – NOT ALL SYMBOLS MAY BE USED ON PROJECT	
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	DUPLEX RECEPTACLE, MTD. +18" AFF		TRANSFORMER – SIZE AS NOTED
	240 VOLT RECEPTACLE (HT. AS REQ.)		PANEL – SIZE AS NOTED
	QUADRUPLX RECEPTACLE, MTD. +18"		MOMENTARY CONTACT PUSH BUTTON
	COUNTERTOP HT. RECEPTACLE +42"		F–FAN; M–MOTOR; P–PUMP
	SINGLE POLE SWITCH, MTD +47"		SPECIAL OUTLET – AS REQUIRED
	THREE-WAY SWITCH, MTD +47"		CKT. NUMBER (B INDICATES PANEL) "2" DESIGNATES CIRCUIT NUMBER
	MANUAL STARTER SWITCH		EXIT SIGN; ONE Sided, OR TWO SIDED EMERGENCY LIGHTING
	DIMMER SWITCH, MTD +47"		RECESSED MOUNTED LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	SWITCH W/ ILLUM. WHEN ON MTD +47"		OVERHEAD OCCUPANCY SENSOR
	THREE-WAY SWITCH W/ OCCU SENSOR MTD. +47"		HIGHBAY HT. LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	SWITCH W/ OCCU SENSOR, MTD. +47"		FLUORESCENT LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	JUNCTION BOX, FLUSH IF POSSIBLE		FLUORESCENT LIGHTING NIGHT LIGHT B DESIGNATES FIXTURE TYPE
	TELEPHONE / DATA OUTLET +18"		FLUORESCENT EMERGENCY LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	DED. COMPUTER TERM. OUTLET +18"		LED LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH W/ STARTER		ISOLATED GROUND
	DISCONNECT SWITCH	IG	
	FLR. MTD. FLUSH DUPLEX RECEPTACLE	WP	WEATHER–PROOF
	FLR. MTD. FLUSH QUAD. RECEPTACLE	BC	BELOW COUNTER
	FLR. MTD. FLUSH PHONE/DATA OUTLET	TC	TIME CLOCK – 24 HOUR
	FLR. MTD. FLUSH COMPUTER OUTLET	AFI	GROUND FAULT INTERRUPTER
	AREA SMOKE DETECTOR	AGF	ABOVE FINISHED FLOOR
	HEAT DETECTOR	ESC	ELECTRIC WATER COOLER
	DUCT SMOKE DETECTOR	AWO	ABOVE SHOW WINDOW
	FIRE ALARM MAN. PULL STATION +47"	BSW	BELOW SHOW WINDOW
	HORN WITH STROBE LIGHT, MTD. +80"	FAF	FIRE ALARM CONTROL PANEL
	* BESIDE DEVICE IS CANDELLA RATING STROBE LIGHT ONLY, MTD. +40"	FACP	FIRE ALARM ANNUNCIATOR PANEL



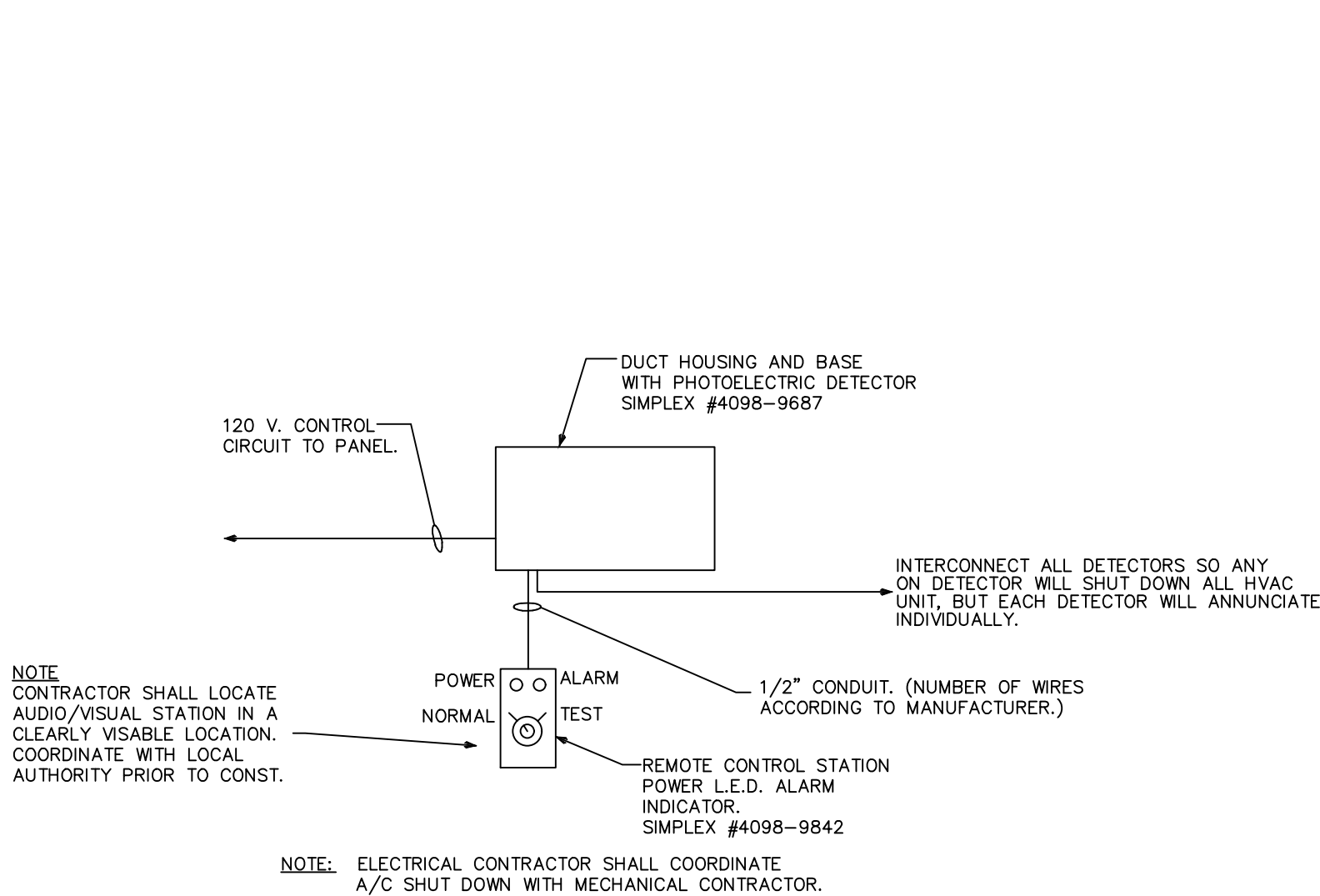
1 FLOOR PLAN - ELECTRICAL

PANEL SCHEDULE A																			
400 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, 400A. M.C.B., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																			
##	BKR.	WIRE AND CONDUIT					LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT					BKR.	##
		COND.	NEUTRAL	GND	C.	KEYS							KEYS	C.	GND	NEUTRAL	COND.		
1	15/1	#14	#14	#14	1/2	CHAL	3' GAS GRILL	120	120	-----	-----								
3	15/1	#14	#14	#14	1/2	CHAL	50" CHEF BASE	720	720	-----	-----								
5	15/1	#14	#14	#14	1/2	CHAL	COUNTERTOP WARMER	1200	660	-----	1200	RTU #9A	CHAL	1	#14	---	#4	70/3	4
7	15/1	#14	#14	#14	1/2	CHAL	MEGA TOP PREP TABLE	900	900	-----	6600								6
9	15/1	#14	#14	#14	1/2	CHAL	MEGA TOP PREP TABLE	900	900	-----	6600								8
11	15/1	#14	#14	#14	1/2	CHAL	UNDER COUNTER FRIG.	600	600	-----	600	RTU #9B	CHAL	1	#14	---	#4	70/3	10
13	15/1	#14	#14	#14	1/2	CHAL	HEAT LAMPS	500	500	-----	6600								12
15	15/1	#14	#14	#14	1/2	CHAL	WORKTOP FREEZER	1800	1800	-----	1080	HOOD LIGHTS/CONTROL	CHAL	1/2	#14	#14	#14	15/1	14
17	15/1	#14	#14	#14	1/2	CHAL	2 DOOR FRIGERATOR	1080	792	-----	1080								16
19	15/1	#14	#14	#14	1/2	CHAL	WALK-IN COOLER DOOR GFI	120	792	-----	792	HOOD EXHAUST FAN	CHAL	1/2	#14	---	#14	15/3	18
21	20/1	#12	#12	#12	1/2	CHAL	WALK-IN COOLER GFI BRK	1932	528	-----	528								20
23	20/1	#12	#12	#12	1/2	CHAL	DISH WASHER GFI BREAKER	1920	528	-----	1920	HOOD SUPPLY FAN	CHAL	1/2	#14	---	#14	15/3	22
25	20/1	#12	#12	#12	1/2	CHAL	ICE MAKER	1824	528	-----	528								24
27	15/1	#14	#14	#14	1/2	CHAL	MEAT CHOPPER	1176	520	-----	520	FLY FAN	CHAL	1/2	#14	---	#14	15/2	26
29	15/1	#14	#14	#14	1/2	CHAL	WATER HEATER	600	520	-----	520								28
31	20/1	#12	#12	#12	1/2	CHAL	CDCA COLA MACHINE	1920	840	-----	840	BOTTLE COOLER BC-95	CHAL	1/2	#14	#14	#14	15/1	30
33	15/1	#14	#14	#14	1/2	CHAL	BOTTLE COOLER BC-50	840	540	-----	540	BEVERAGE DISPENSER	CHAL	1/2	#14	#14	#14	15/1	34
35	15/1	#14	#14	#14	1/2	CHAL	GLASS REFRIGERATOR	1416	540	-----	1416	BEVERAGE DISPENSER	CHAL	1/2	#14	#14	#14	15/1	36
37								5517	6016	-----	1980								
39	100/3	#3	#6	#8	1-1/4	CHAL	PANELBOARD 'B'	3580	8759	-----	1980	BREAD OVEN	CHAL	1/2	#12	---	#12	20/3	40
41								4260	8940	-----	1980								42
WIRE/CONDUIT KEY								30540		32967		33316		PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 112.8 AMPS NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 269. AMPS					
1234												96,823							
L-TEMP RATING CONDUIT TYPE INSULATION WIRING TYPE																			
														PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001 REGISTERED TO - TODD W. CAREY AND ASSOCIATES OF THE CAROLINAS, PA					

PANEL A DIVERSIFICATION CALCULATIONS									
RECEPTACLES (22)	-	3960	VA	TOTAL					
FIRST 10 KVA AT 100%	-	3960							
LIGHTING	-	1125	X	125%	-	1406			
HVAC LOAD AT 100%	-	3960							
MOTOR LOADS AT 100%	-	6800							
PLUS 25% OF THE LARGEST MOTOR	-	4950							
MISC. NON-CONTINUOUS LOADS AT 100%	-	400							
KITCHEN EQUIPMENT (23)	-	29210							
44938 X 0.65	-	29210							
TOTAL DIVERSIFIED PANEL LOAD	-	86326							
LOAD AT 120/208V/3-PHASE/4-WIRE	-	239.8A							

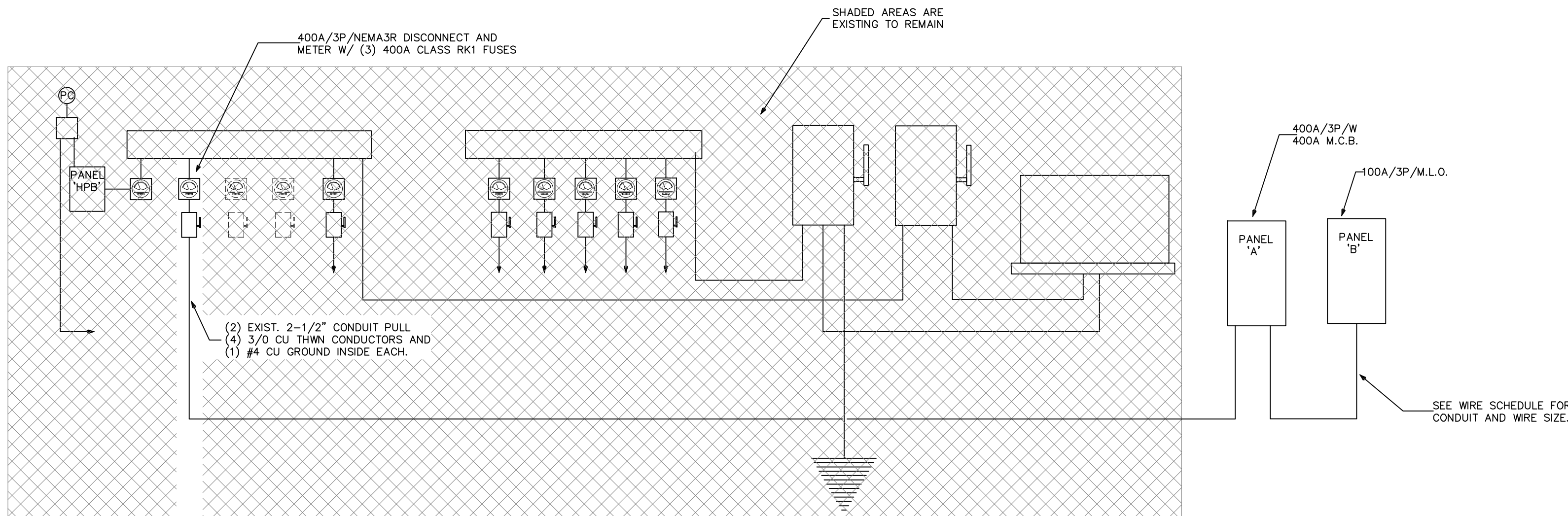
PANEL SCHEDULE B																			
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																			
##	BKR.	WIRE AND CONDUIT					LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT					BKR.	##
		COND.	NEUTRAL	GND	C.	KEYS							KEYS	C.	GND	NEUTRAL	COND.		
1	20/1	#12	#12	#12	1/2	CHAL	OFFICE/POS RECEPTACLE	540	540	-----	-----	LIGHTS	CHAL	1/2	#12	#12	#12	20/1	2
3	20/1	#12	#12	#12	1/2	CHAL	KITCHEN POS RECEPTACLE	1125	1125	-----	-----		540	540	-----	-----	540	540	-----
5	20/1	#12	#12	#12	1/2	CHAL	SERVICE POS RECEPTACLE	540	540	-----	400	PATIO JBOX	CHAL	1/2	#12	#12	#12	20/1	4
7	20/1	#12	#12	#12	1/2	CHAL	SERVICE POS RECEPTACLE	1080	540	-----	540	FANS	CHAL	1/2	#12	#12	#12	20/1	6
9	20/1	#12	#12	#12	1/2	CHAL	BAR POS/TOILET RECEPTACLE	540	720	-----	720	PATIO FANS	CHAL	1/2	#14	#14	#14	20/1	8
11	20/1	#12	#12	#12	1/2	CHAL	RECEPTACLE	720	720	-----	1800	BREWER	CHAL	1/2	#14	#14	#14	20/1	10
13	20/1	#12	#12	#12	1/2	CHAL	SERVICE/DUCT DET. RECEPT.	1800	1800	-----	720	BREWER	CHAL	1/2	#14	#14	#14	15/1	12
15								360	360	-----	1800	BREWER	CHAL	1/2	#14	#14	#14	15/1	12
17	25/2	#10	---	#10	1/2	CHAL	COOLER COMPRESSOR	1800	1800	-----	0		CHAL	1/2	#14	#14	#14	15/1	14
19	15/1	#14	#14	#14	1/2	CHAL	COOLER DEFROST	0	2080	-----	2600	FREEZER COMPRESSOR	CHAL	1/2	#10	---	#8	35/2	16
21	15/1	#14	#14	#14	1/2	CHAL	COOLER DOOR GFI	0	2600	-----	2600								18
23							SPACE	432	432	-----	0	FREEZER DEFROST	CHAL	1/2	#14	---	#14	15/2	20
25							SPACE	0	499	-----	0								22
27							SPACE	120	120	-----	120	FREEZER DOOR GFI	CHAL	1/2	#14	#14	#14	15/1	24
29							SPACE	0	125	-----	0	EXTERIOR DOOR LIGHTING	CHAL	1/2	#12	#12	#12	20/1	26
							SPACE	0	0	-----	0								28
							SPACE	0	0	-----	0								30
WIRE/CONDUIT KEY								6141	8759	8940	PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 47. AMPS NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 66.2 AMPS								
1234								23,840											
L-TEMP RATING L-CONDUIT TYPE L-INSULATION L-WIRING TYPE								PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001 REGISTERED TO - TODD W. CAREY AND ASSOCIATES											

PANEL B DIVERSIFICATION CALCULATIONS									
RECEPTACLES (22)	-	3960	VA	TOTAL					
FIRST 10 KVA AT 100%	-	3960							
LIGHTING	-	1250	X	125%	-	1563			
MOTOR LOADS AT 100%	-	1800							
PLUS 25% OF THE LARGEST MOTOR	-	270							
MISC. CONTINUOUS LOADS AT 125%	-	500							
400 X 1.25	-	500							
KITCHEN EQUIPMENT (9)	-	10680							
16430 X 0.65	-	10680							
TOTAL DIVERSIFIED PANEL LOAD	-	18773							
LOAD AT 120/208V/3-PHASE/4-WIRE	-	52.1A							



2 DUCT SMOKE DETECTOR WIRING

NO SCALE



1 EXIST. ELECTRICAL SERVICE RISER DIAGRAM

NO SCALE

REV.	DESCRIPTION	BY
1		
2		
3		
4		
5		
6		
7		