

**HOOD INFORMATION**

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM					MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG.		
					TOTAL EXH. CFM	WIDTH	LENG.	DIA.	CFM				S.P.	END TO END	ROW
1		5424 ND-2-ACPSP-F	13' 0.00"	600 Deg.	2925	10"	14"		1462	-0.728"	1775	693	430 SS Where Exposed	ALONE	ALONE

**HOOD INFORMATION**

HOOD NO.	TAG	TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	UTILITY CABINET(S)		FIRE SYSTEM PIPING	HOOD HANGING WGT		
											FIRE SYSTEM	ELECTRICAL			SWITCHES	
1		Captrate Solo Filter	9	16"	16"	93% See Filter Spec.	9	L55 Series E26	NO	Right	ANSUL R102	3.0/1.5	SC-311110FP	1 Light 1 Fan	YES	914 LBS

**HOOD OPTION**

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 18.00" High Front, Left, Right
		RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS
		LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS
		INSULATION FOR BACK OF HOOD

**PERFORATED SUPPLY**

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)		
							WIDTH	LENG.	S.P.
1		Front	168"	22"	6"	MUA	10"	16"	443 0.165"
						MUA	10"	16"	443 0.165"
						MUA	10"	16"	443 0.165"
						MUA	10"	16"	443 0.165"
						AC	8"	99	0.032"
						AC	8"	99	0.032"
						AC	8"	99	0.032"
						AC	8"	99	0.032"
						AC	8"	99	0.032"
						AC	8"	99	0.032"
						AC	8"	99	0.032"

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED  
ETL LISTED FILE# 3054804-001

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

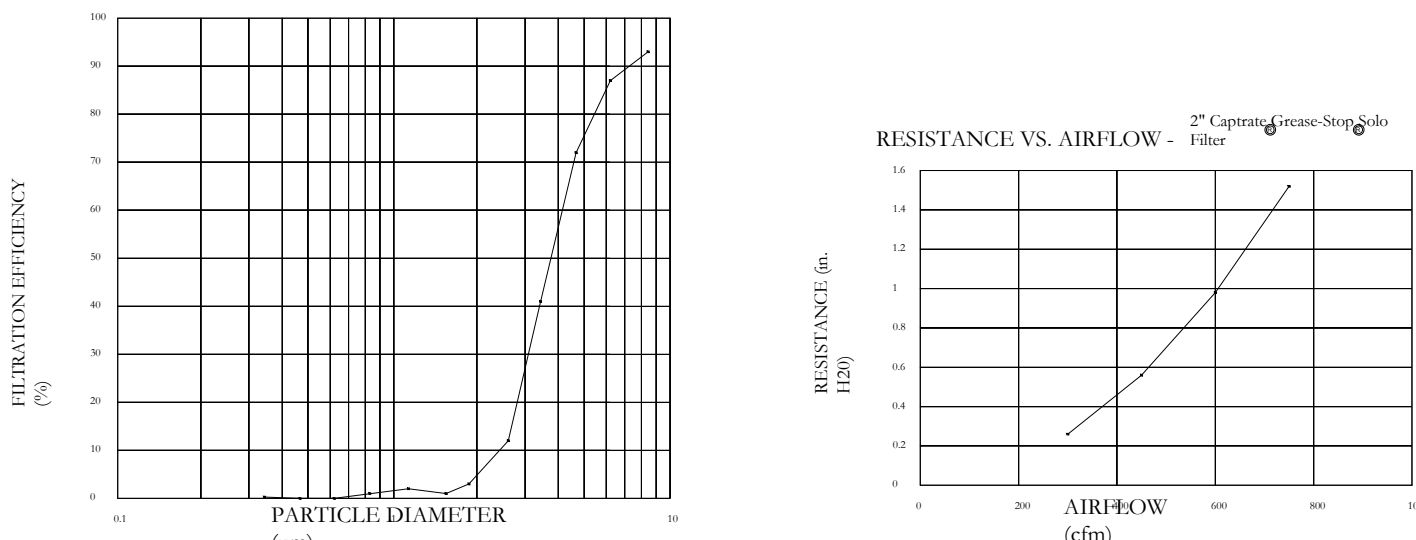
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

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

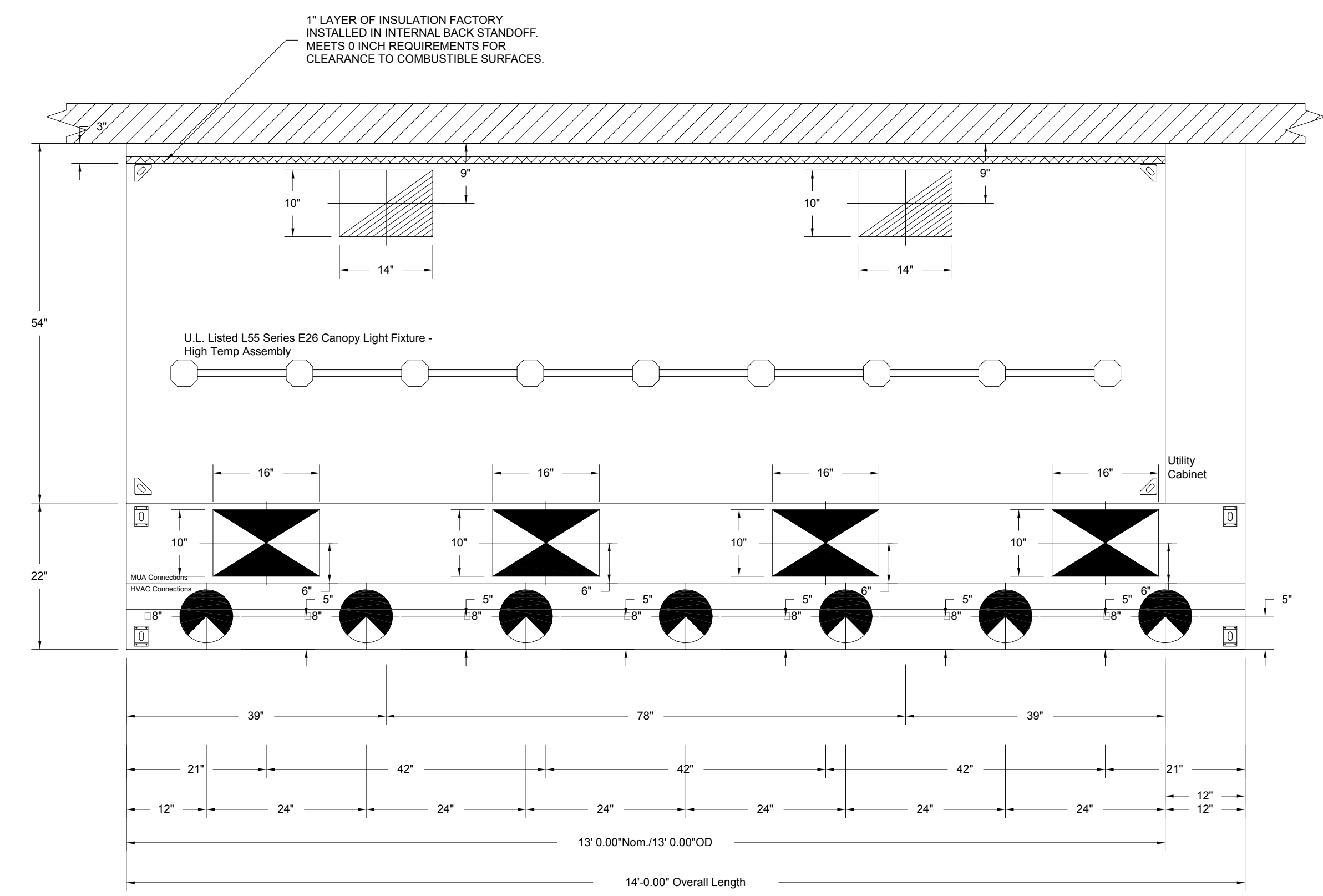
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 90% 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. FILTER COLLECTION EFFICIENCY

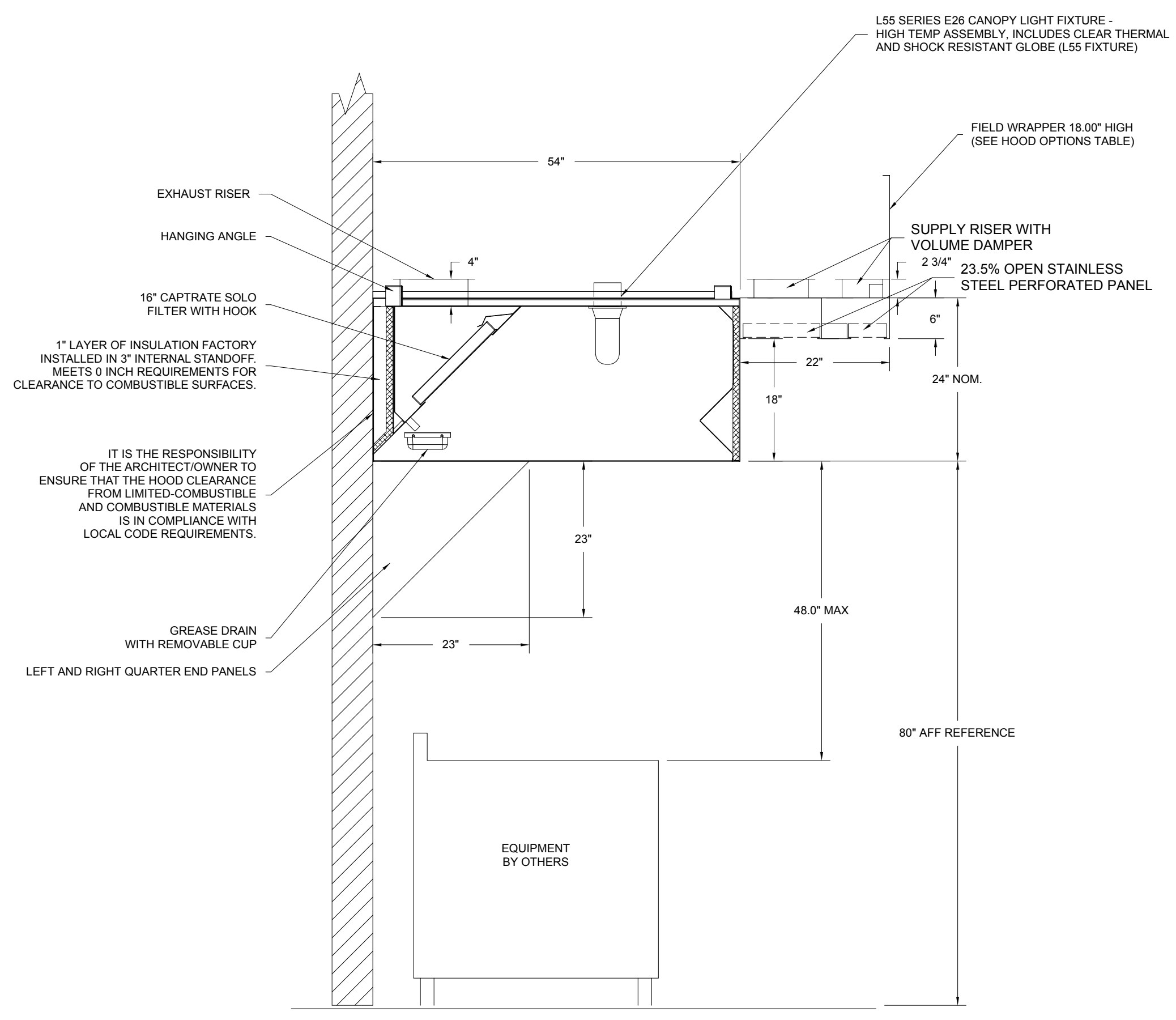


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
NFPA #96  
NSF STANDARD #2  
UL STANDARD #1046  
INT. MECH. CODE (IMC)



PLAN VIEW - HOOD #1  
13' 0.00" LONG 5424ND-2-ACPSP-F  
NOTE: Additional hanging angles provided for hoods 12' and longer.

ACPSP ships loose for field installation



SECTION VIEW - MODEL  
5424ND-2-ACPSP-F  
#1



CHIPOTLE MIRAMAR FL #2417  
MIRAMAR, FL, 33027

10/14/2014
2153206
JMB-40
3/4" = 1'-0"
MASTER DRAWING

**EXHAUST FAN INFORMATION -**

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	□	VOLT	FLA	WEIGHT (LBS.)	SONES
1	EF-1	NCA24HPFA	2925	1.200	826	2.000	3	208	6.2	243	12.7
2	EF-2	DR12HFA	150	0.600	1282	0.180	1	115	2.0	42	8

**MUA FAN INFORMATION -**

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	CFM	ESP.	RPM	H.P.	□	VOLT	FLA	WEIGHT (LBS.)	SONES
3	MAU-1	A1-G10	G10	A1	1775	0.800	911	0.750	3	208	2.7	255	18.7

**FAN OPTIONS**

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	EF-1	1 - Grease Box 1 - Fan Base Ceramic Seal - For Grease Ducts 1 - Miami Dade Certification.
2	EF-2	1 - 12-BDD Damper 1 - Miami Dade Certification.
3	MAU-1	1 - Motorized Backdraft Damper for Size 1 Housing 1 - Miami Dade Certification.

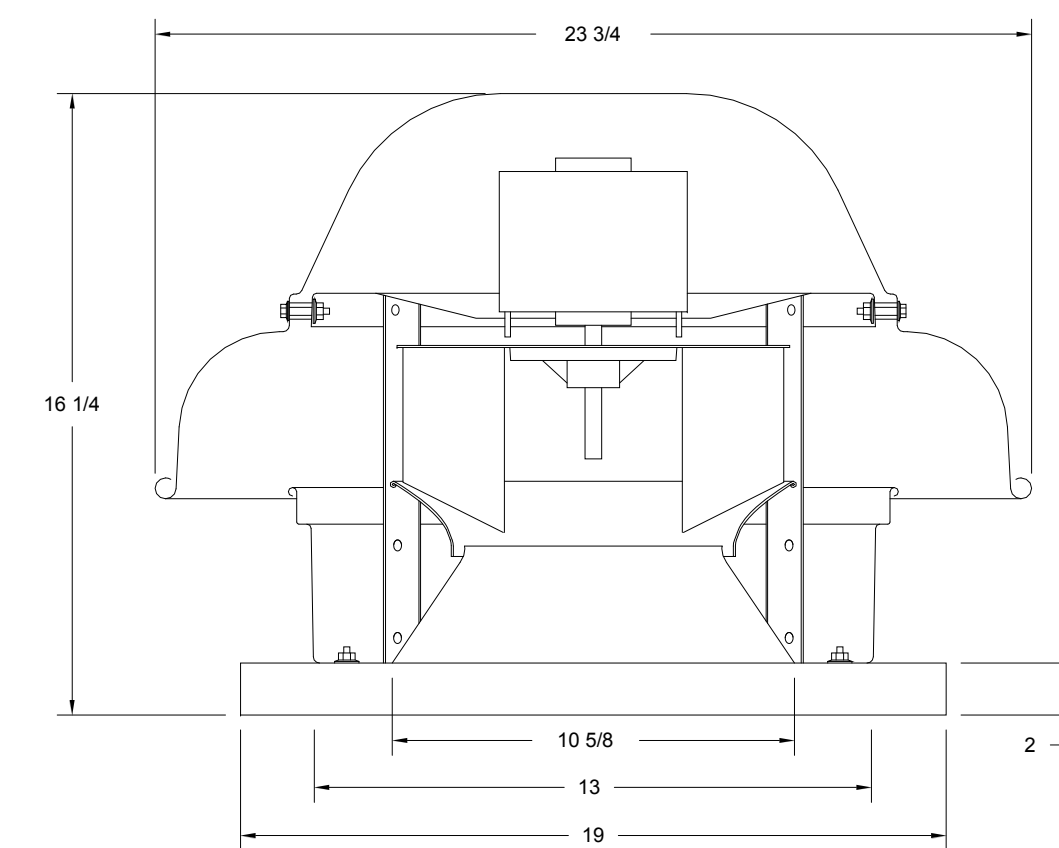
**FAN ACCESSORIES**

FAN UNIT NO.	TAG	EXHAUST				SUPPLY		
		GREASE CLIP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	EF-2							
3	MAU-1						YES	

**CURB ASSEMBLIES**

NO.	FAN	WEIGHT	ITEM	SIZE
1	# 1	90 LBS	Curb	31.500"W x 31.500"L x 26.000"H Vented 16 Gauge
2	# 2	51 LBS	Curb	17.500"W x 17.500"L x 26.000"H 16 Gauge
3	# 3	56 LBS	Curb	21.000"W x 21.000"L x 26.000"H 16 Gauge

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



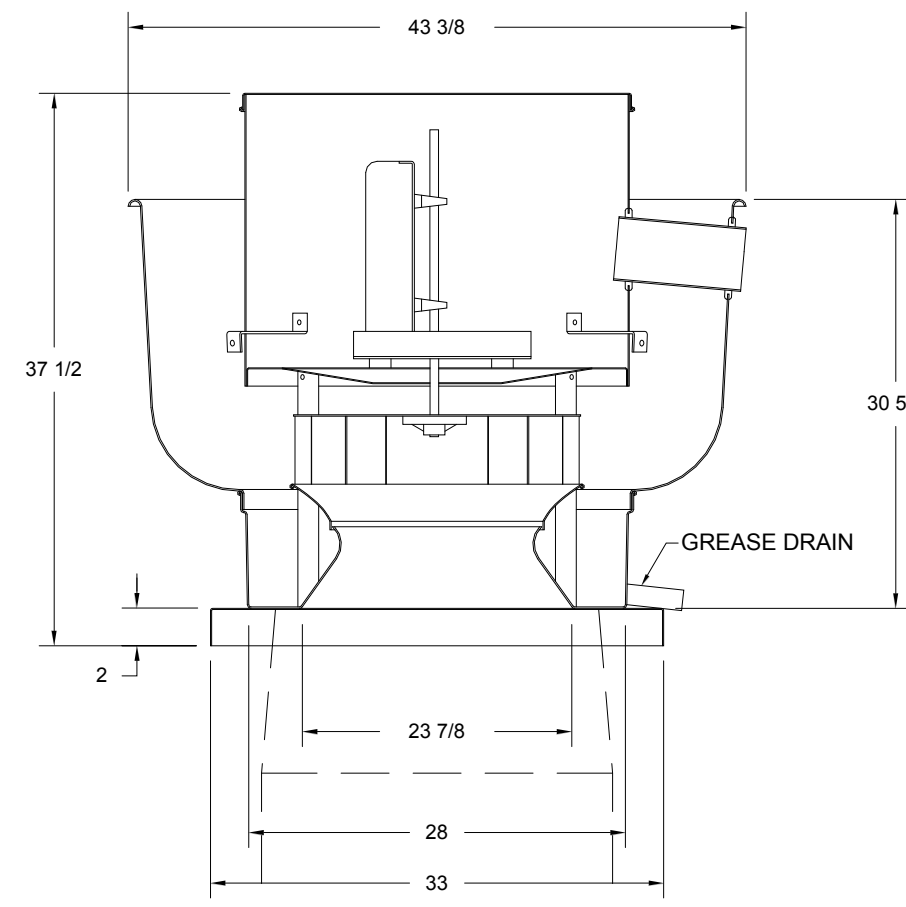
**FEATURES:**

- ROOF MOUNTED FANS
- UL705
- SAFETY DISCONNECT
- STANDARD BIRD SCREEN
- SPEED CONTROL

**OPTIONS**

- 1 12-BDD DAMPER
- MIAMI DADE CERTIFICATION.

FAN #1 NCA24HPFA - EXHAUST FAN (EF-1)



**FEATURES:**

- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL702
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- 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
- FAN BASE CERAMIC SEAL - FOR GREASE DUCTS
- MIAMI DADE CERTIFICATION.

**DUCTWORK BETWEEN EXHAUST RISER ON HOOD**

FAN #1 AND #2 OTHERS (MAU-1)  
1. UNTEMPERED SUPPLY UNIT WITH 10" BLOWER IN SIZE #1 HOUSING

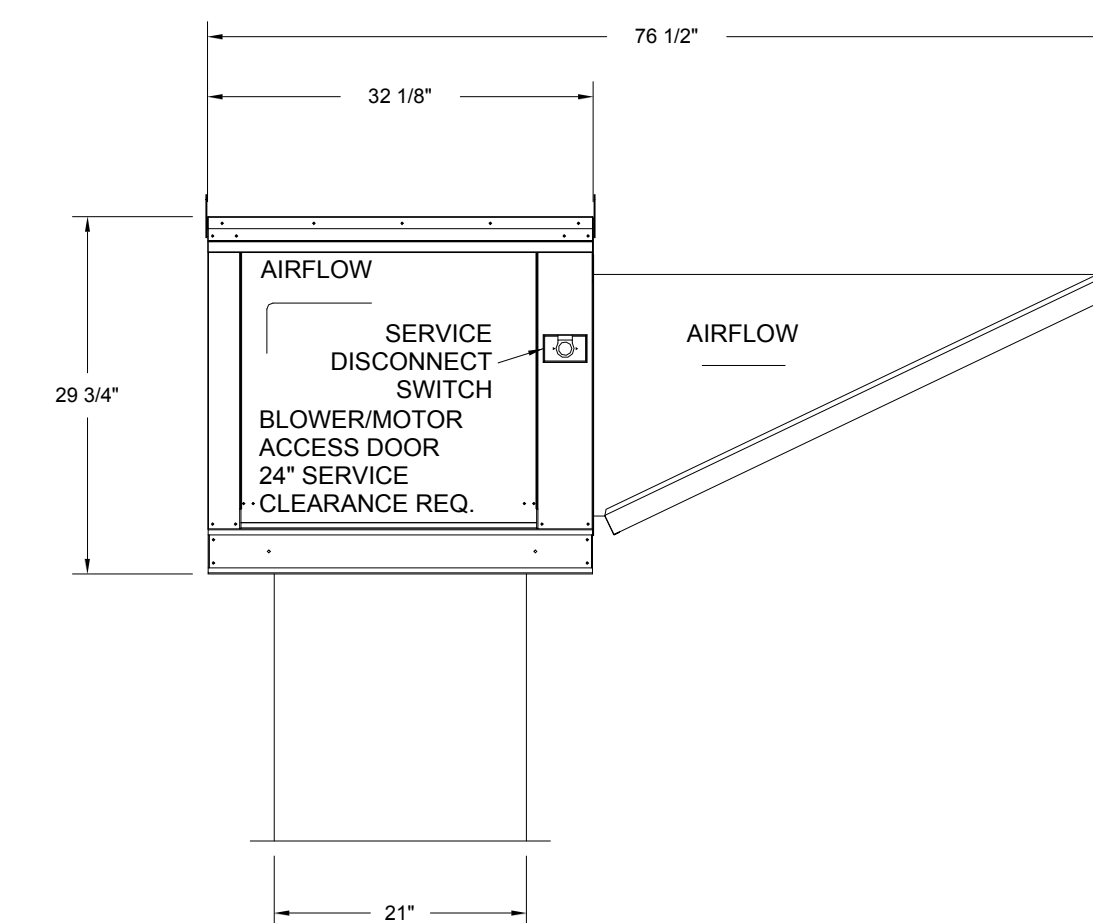
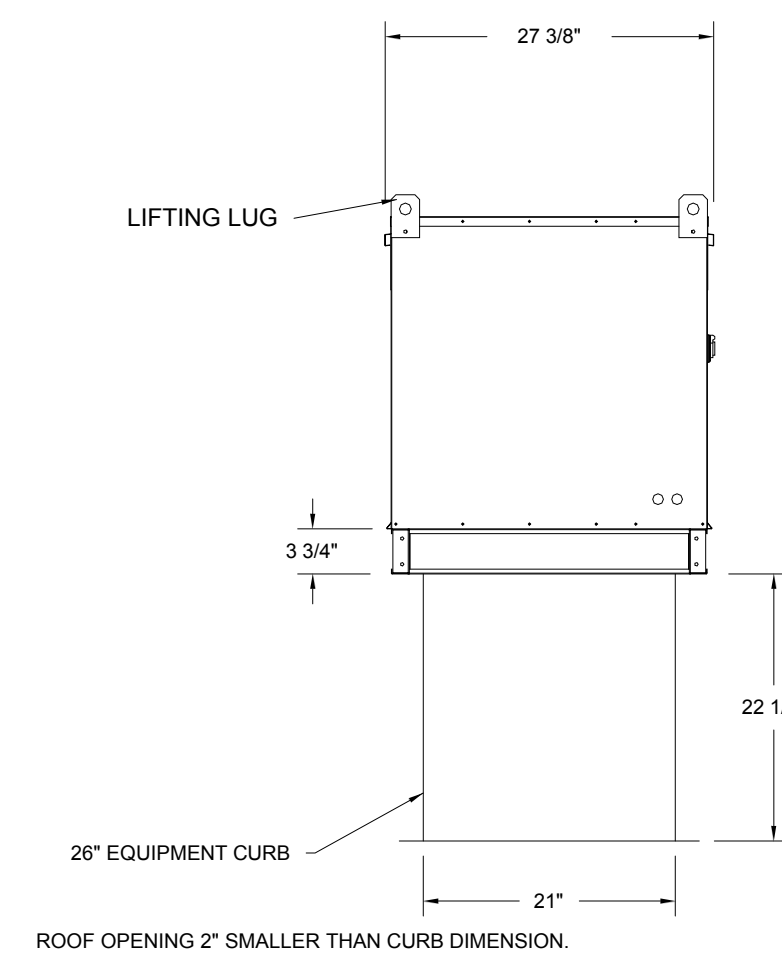
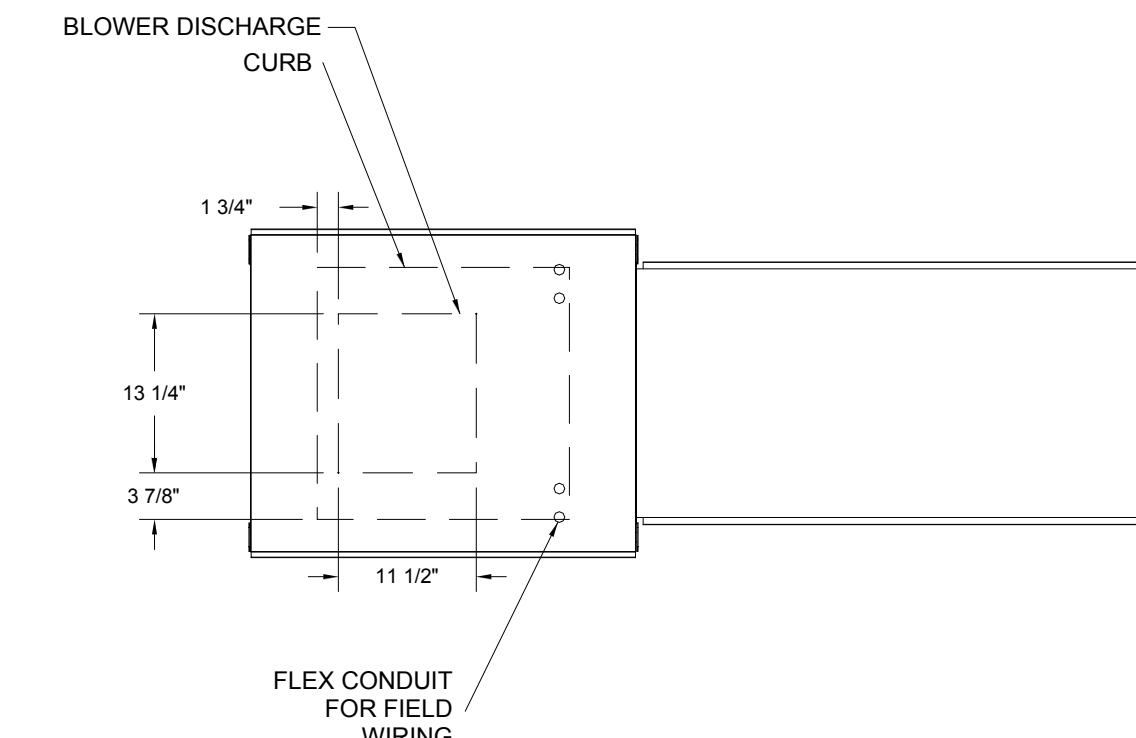
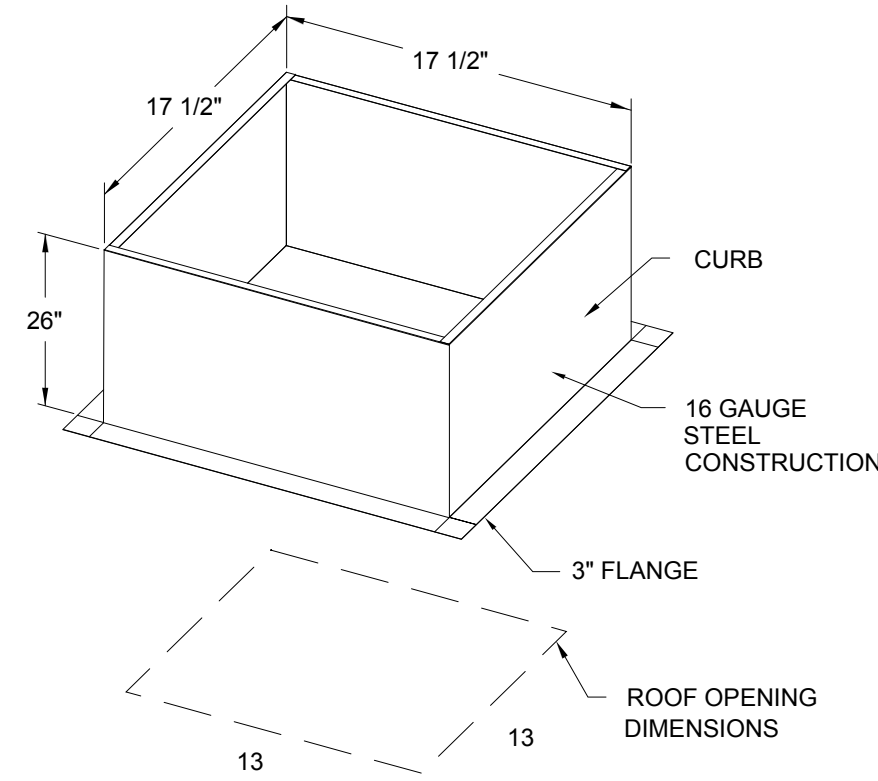
2. INTAKE HOOD WITH EZ FILTERS

3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT

4. MOTORIZED BACK DRAFT DAMPER 16" X 18", STANDARD GALVANIZED CONSTRUCTION, 1 1/4" REAR FLANGE, WITH MS4104F MOTOR, WALL SUPPLY MOUNT, FOR SIZE 1 UNTEMPERED FAN HOUSING (5191)

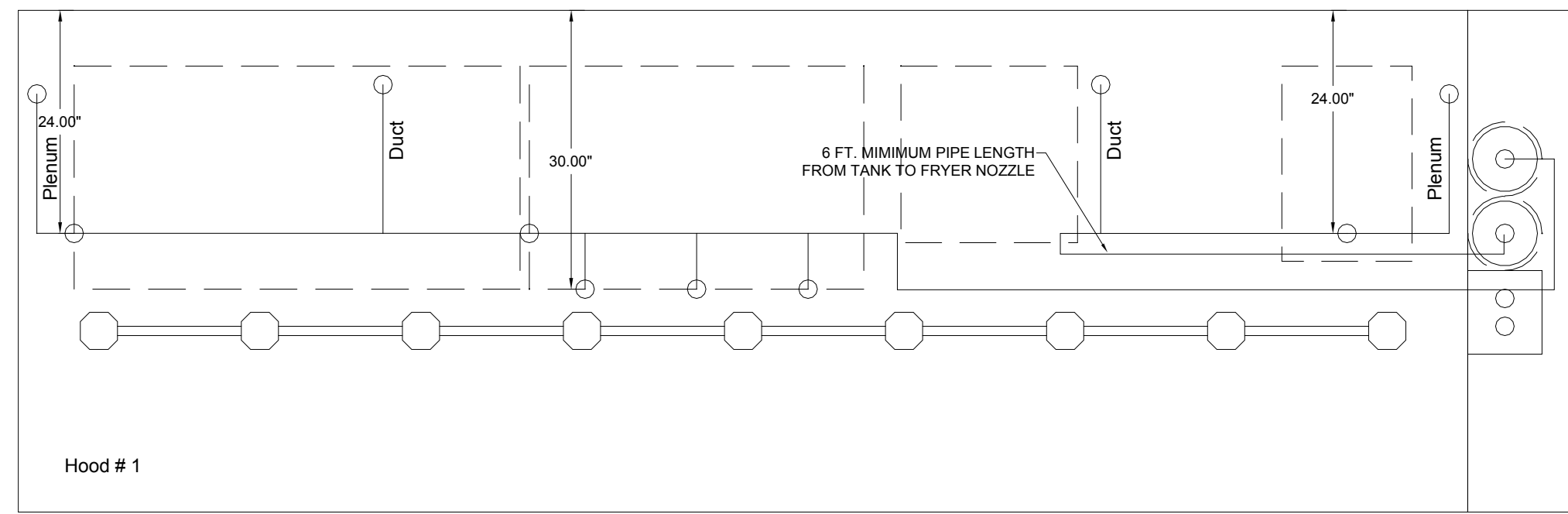
5. MIAMI DADE IMPACT AND WIND LOAD CERTIFICATION - MIAMI DADE COUNTY PRODUCT CONTROL APPROVED. FLORIDA BUILDING CODE APPROVAL. CURBS MUST BE 16 GAUGE ALUMINIZED.

MPU CURB CLIPS ORDERED SEPARATELY.



CHIPOTLE MIRAMAR FL #2417  
MIRAMAR, FL, 33027

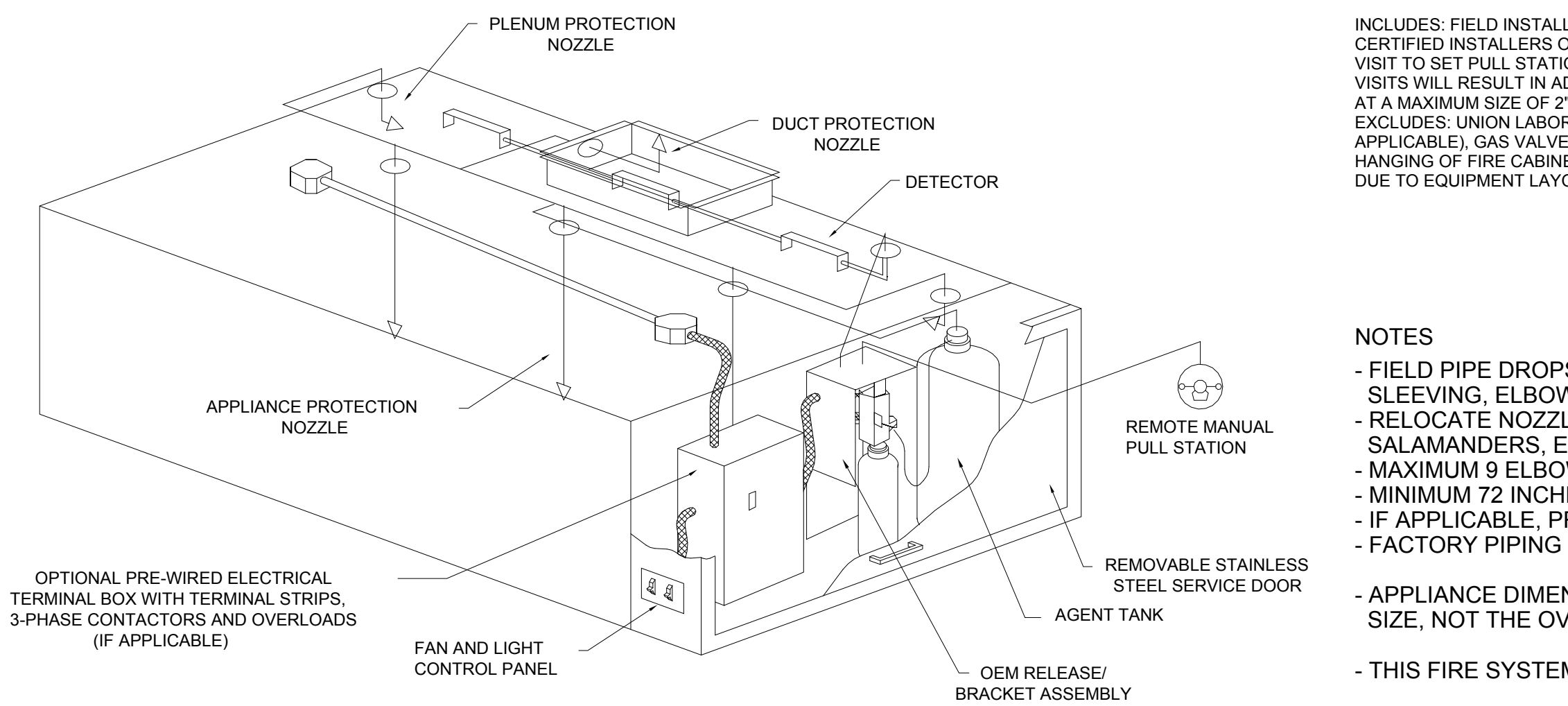
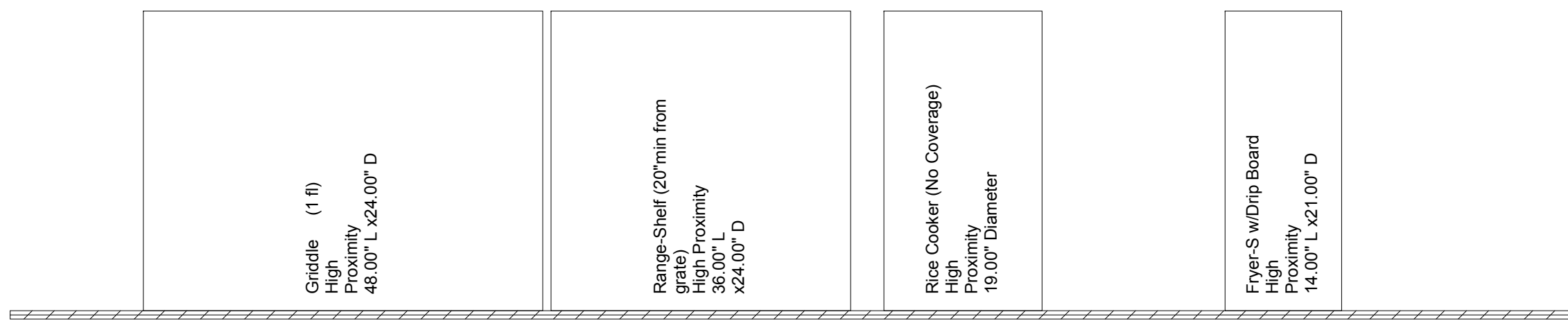
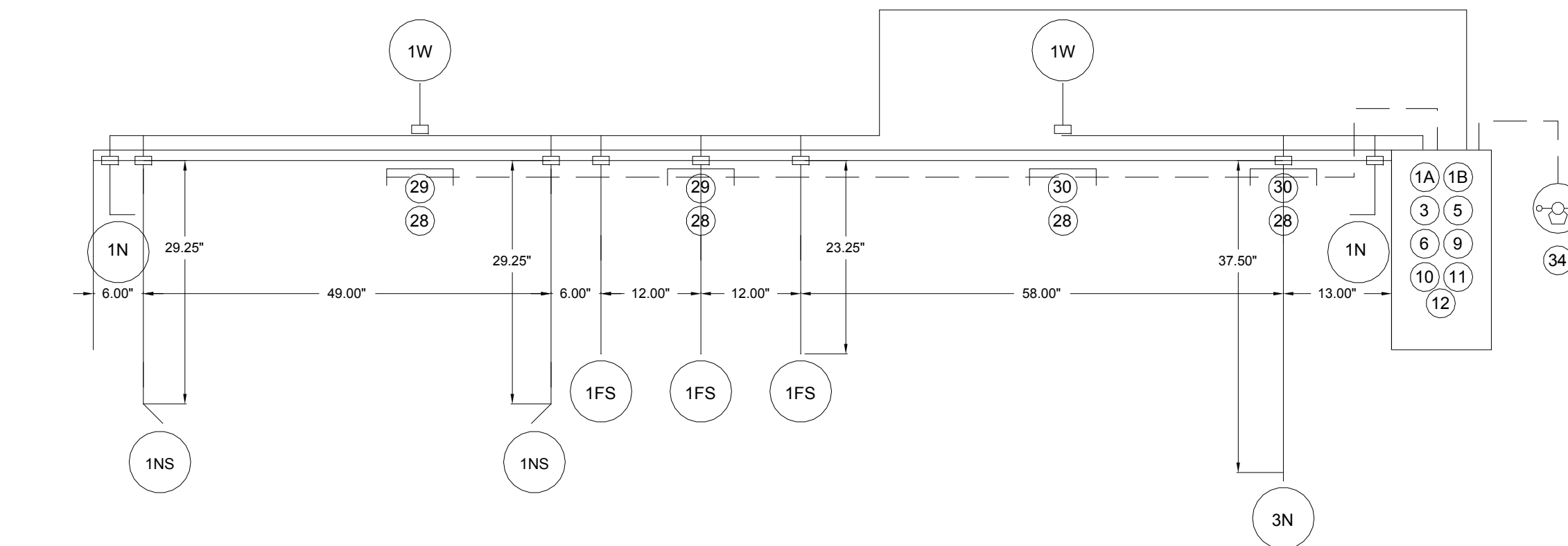
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JMB-40  
3/4" = 1'-0"  
MASTER DRAWING



Job #: 2153206  
 Job Name: CHIPOTLE MIRAMAR #2417  
 Drawn By: CM  
 System Size: ANSUL-3.0/1.5 Total FP required: 12  
 Hood # 1 13' 0.00" Long x 54" Wide x 24" High  
 Riser # 1 Size: 10" x 14"  
 Riser # 2 Size: 10" x 14"

**LEGEND - FIRE CABINET ANSUL SYSTEM**

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



**TYPICAL ANSUL R-102 SYSTEM LAYOUT**

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

- NOTES**
- FIELD PIPE DROPS AS SHOWN
  - SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS
  - RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
  - MAXIMUM 9 ELBOWS IN SUPPLY LINE.
  - MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
  - IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
  - FACTORY PIPING EXTENDS A MAXIMUM OF 6\"/>

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS

**SPECIFICATIONS**

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

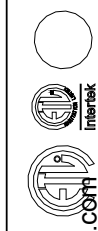
THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

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

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

**Fire System Parts List**

FIRE SYSTEM NO.	TAG	KEY NUMBER - PART DESCRIPTION	QTY. BY FACTORY	QTY. BY DIST.
1		0 - 0 - 43-15733 AIR CYLINDER ASSEMBLY - Air Cylinder and Tubing for Mechanical Gas Valves (Ansul)	1	0
1		0 - 0 - METALCAP-CB BLOWOFF CAP - Metal	10	0
1		1 - 1 - AT - 1.5 TANK(#1A) - 1.5 Gallon SS Tank (for use with Automan Release, Actuator, or SS Enclosure (UL/ULC))	1	0
1		1 - 1 - AT - 3.0 TANK(#1B) - 3.0 Gallon SS Tank (for use with Automan Release, Actuator, or SS Enclosure (UL/ULC))	1	0
1		3 - 3 - ANS-OEM REGULATED RELEASE - Ansul Regulated Mechanical Release/Bracket Assembly, OEM, R-102	1	0
1		5 - 5 - LIQ-3.0 AGENT - Ansulex Low PH Wet Chemical Agent, 3 Gallon (UL)	0	1
1		6 - 6 - LIQ-1.5 AGENT - Ansulex Low PH Wet Chemical Agent, 1.5 Gallon (UL)	0	1
1		9 - 9 - 101-30 CARTRIDGE - Carbon Dioxide, 101-30, Cartridge (R-102)	0	1
1		10 - 10 - T-LINK LINK - Test Link (1 test link)	0	1
1		11 - 11 - MICRO-SDA MICROSWITCH - Single Dual Electric Switch, One Standard Switch, One Alarm Duty Switch 437155	1	0
1		12 - 12 - HOSE HOSE - Rubber Hose	1	0
1		14 - 14 - 419336 NOZZLE - 1W Nozzle, Duct/Appliance (Replaces ANSUL Part# 419347, CAS Part# 419336) A0001266	2	0
1		15 - 15 - 419333 NOZZLE - 1F Nozzle, Appliance (Replaces ANSUL Part # 419344, CAS# 419333) A0001263	3	0
1		16 - 16 - 419335 NOZZLE - 1N Nozzle, Plenum/Appliance (Replaces ANSUL Part# 419346, CAS Part# 419335) A0001265	4	0
1		19 - 19 - 419338 NOZZLE - 3N Nozzle, Appliance (Replaces ANSUL Part# 419349, CAS Part# 419338) A0001268	1	0
1		25 - 25 - 418569 NOZZLE ADAPTOR - Swivel Nozzle Adaptor (Replaces CAS Part # 418569) A0001274	5	0
1		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL)	10	0
1		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" Hood Seal (UL)	1	0
1		28 - 28 - S-DET DETECTOR - Series (Scissor Linkage) NEW#435547/435548 (OLD#417369/434480)	4	0
1		29 - 29 - ANS-360FL FUSIBLE LINK - 360deg F, R-102 and PIRANHA	2	0
1		30 - 30 - ANS-500FL FUSIBLE LINK - 500deg F, R-102 and PIRANHA	2	0
1		34 - 34 - RPS-A REMOTE PULL STATION - Red composite (without wire rope) 434618	1	0
1		35 - 35 - PE-LT PULLEY ELBOW - Low Temp. Pulley Elbow, Set Screw Type	2	0
1		36 - 36 - PE-HT PULLEY ELBOW - High Temp Pulley Elbow, Compression Type	1	0
1		41 - 41 - SN-CHAR SINGLE NOZZLE EXTENDED DROP ASSY	1	0



*ELECTRICAL PACKAGES -*

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	H.P.	VOLT	FLA	
											Utility Cabinet Right
1		SC-31110FP	Utility Cabinet Right	Hood # 1	1 Fan	Smart Controls Thermostatic Control	Supply	3	0.750	208	2.7

*Fire System Information -*

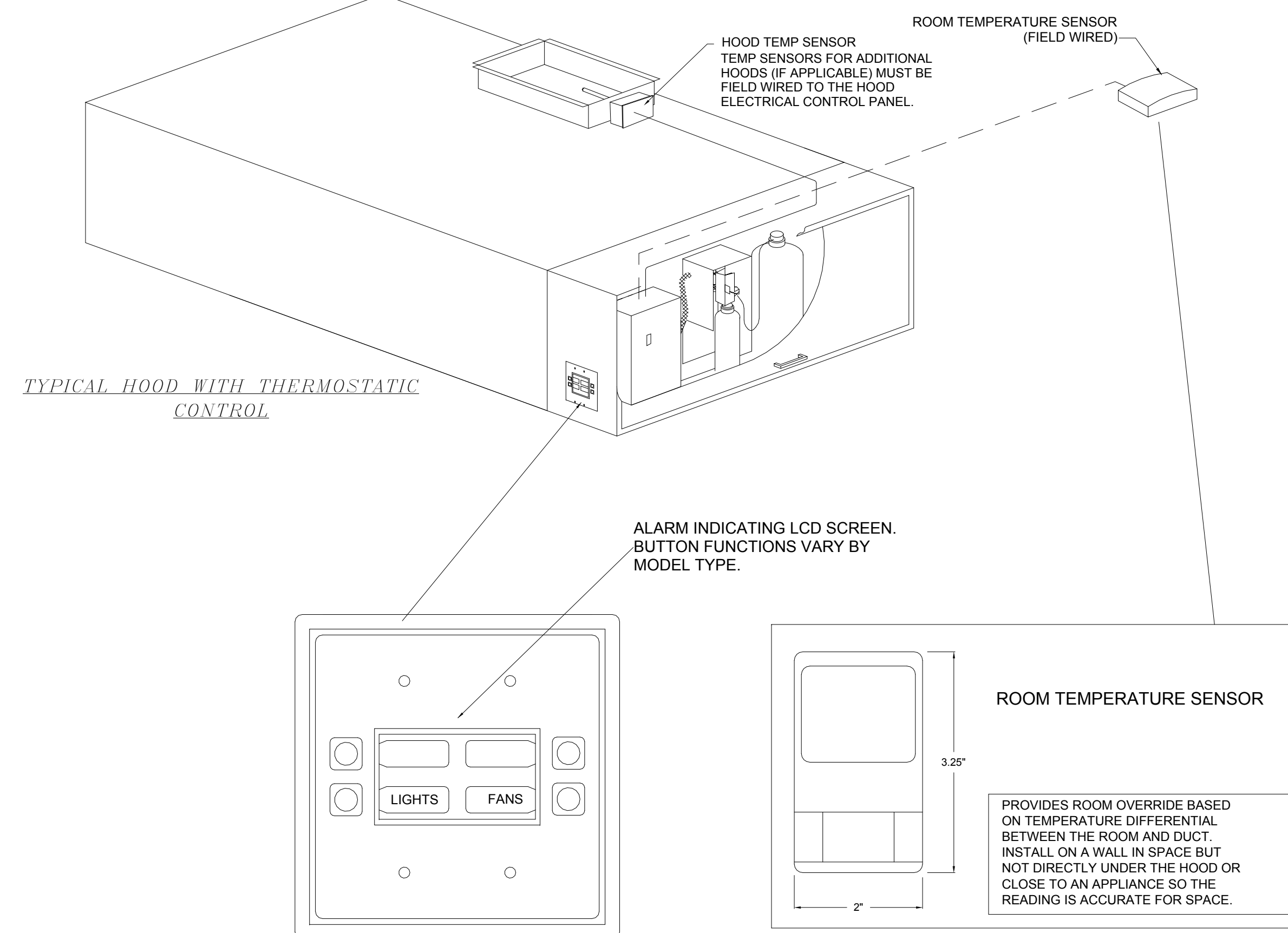
FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		Ansul R102	3.0/1.5	4	Fire Cabinet Right	Right

*CAS*

FIRE SYSTEM NO.	(\$)	TAG	TYPE	SIZE	SUPPLIED BY
1			Mechanical	2.000	CaptiveAire Systems

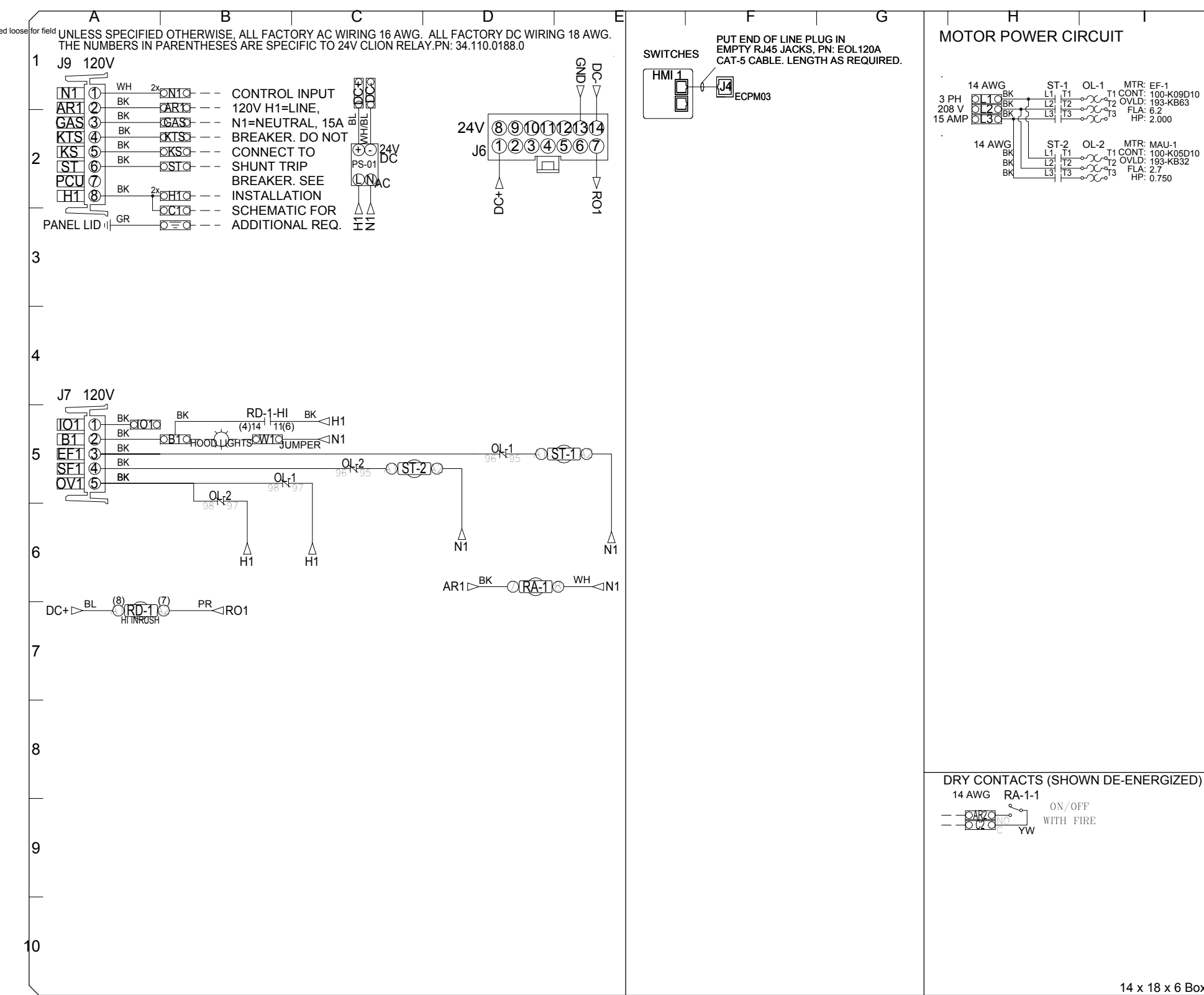
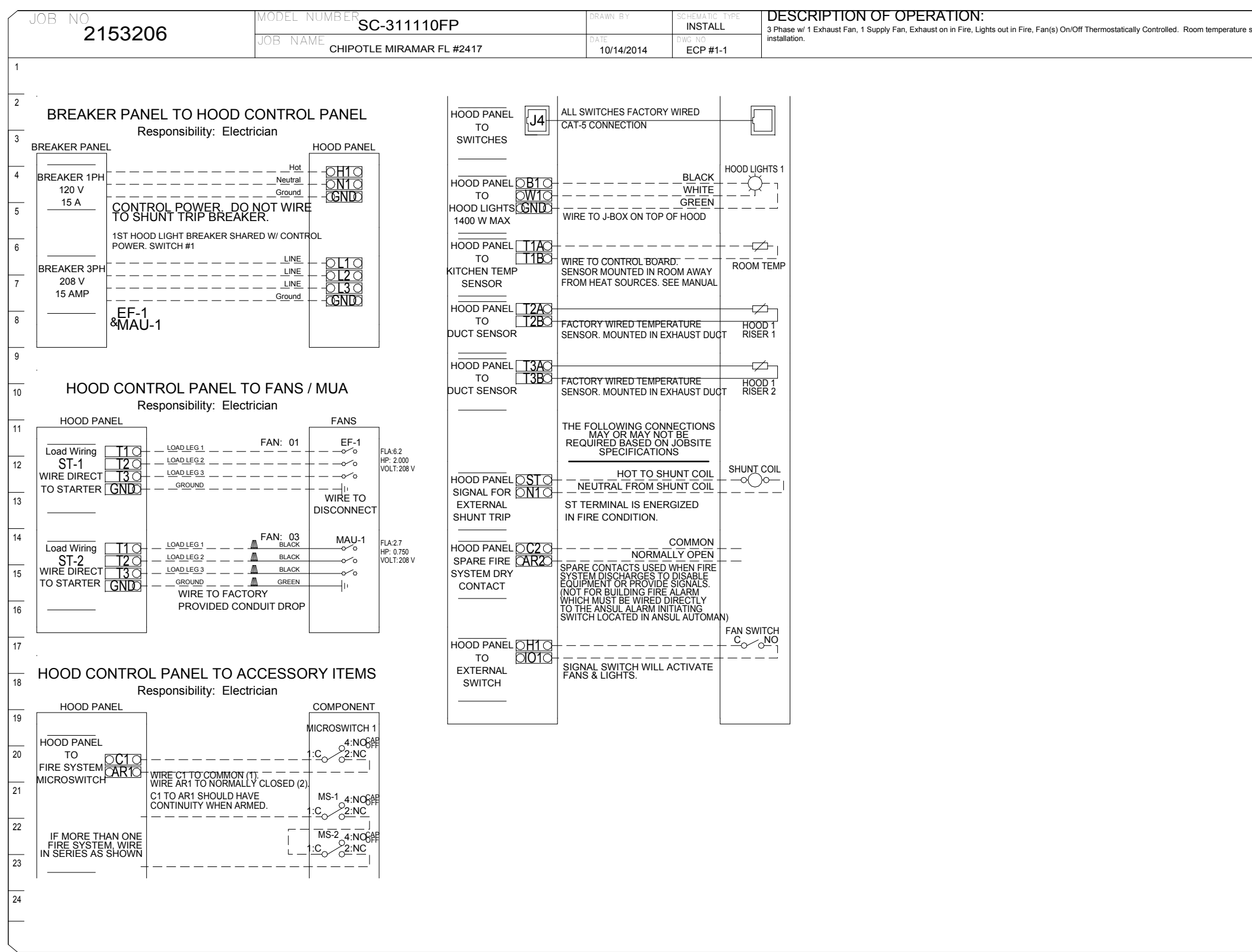
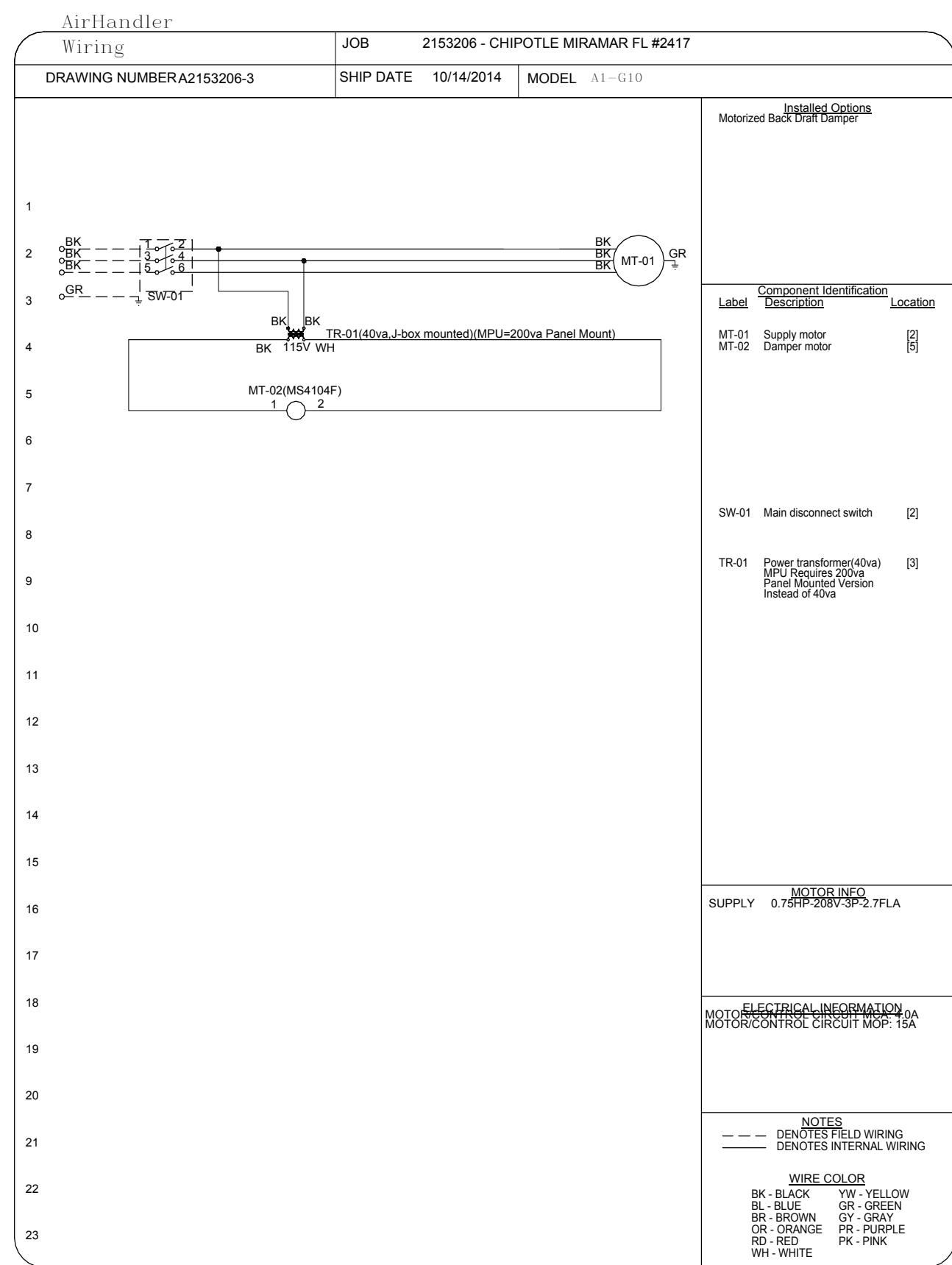
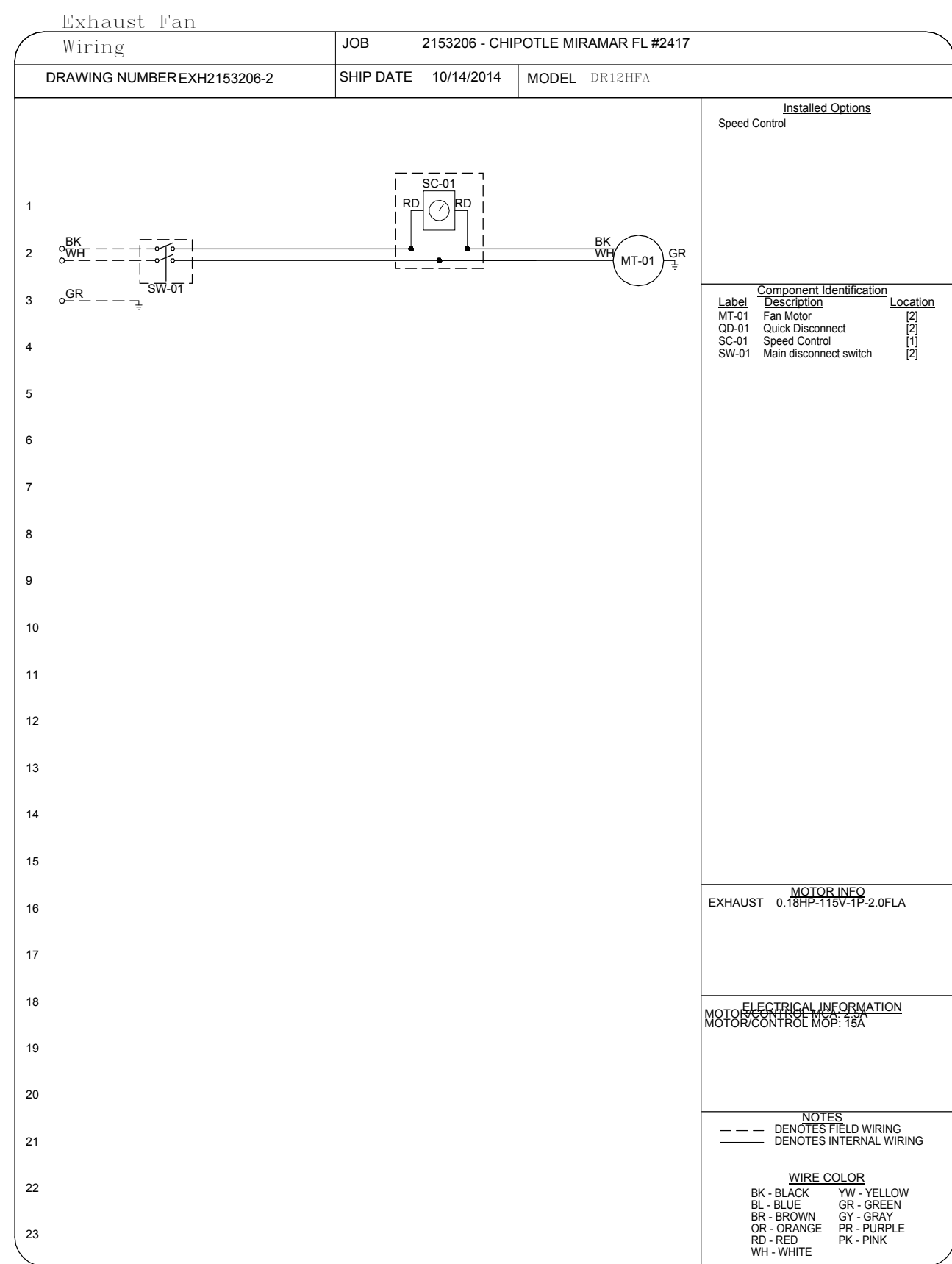
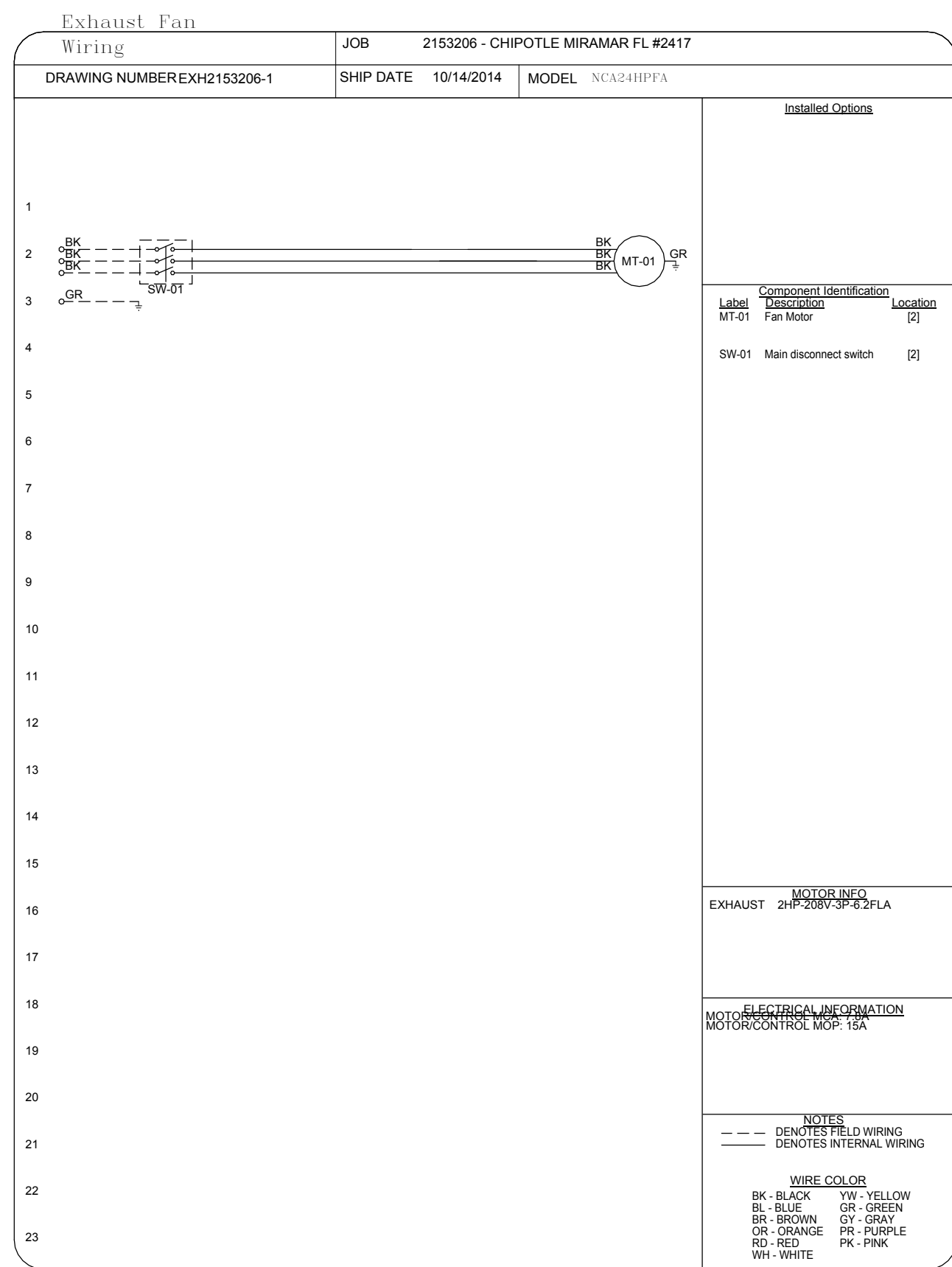
TEMPERATURE SENSOR INTERLOCK

THE TEMPERATURE SENSOR INTERLOCK OPTION COMPLIES WITH IMC 507.2.1.1 AND NFPA 96 11.1.1 BY INTERLOCKING WITH COOKING APPLIANCES THROUGH MEANS OF A HEAT SENSOR TO AUTOMATICALLY ACTIVATE EXHAUST FANS DURING COOKING OPERATIONS.



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**FACTORY WIRING SCHEMATIC CIRCUIT BOARDS**  
 ECPM03 Rev. 1.32  
 HMI Rev. 1.06

**COMPONENT LIST**

Part No.	Description	Quantity
DLX	Panel	1
CA	Panel	1
PS-1	Power Sup. 24VDC	1
RA-4	120V Relay DPDT	1
RA-5	120V Relay DPDT	1
RA-6	120V Relay DPDT	1
RA-7	120V Relay DPDT	1
RA-8	120V Relay DPDT	1
RA-9	120V Relay DPDT	1
RA-10	120V Relay DPDT	1

**LEGEND**

**FIELD WIRING:**  
 BK-BLACK, YW-YELLOW, BL-BLUE, GR-GREEN, BK-BROWN, PR-PURPLE, DR-ORANGE, RD-RED, WH-WHITE, ST-STRIPES, BL-RD-BL-RD STRIPES, BK-GR-BK-GR STRIPES, WH-BL-WH-BL STRIPES

**CHIPOTLE MIRAMAR SC-31111FP**  
 2 Phase w/1 Exhaust Fan, 1 Supply Fan, Exhaust on 1 Fire, Lights on 1 Fire, Fans On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation.

Highwoods Group

3100 SMOKETREE COURT, SUITE # 010, Raleigh, NC, 27604 PHONE: (919) 875-0420 FAX: (919) 875-0677 EMAIL: reg@captivewire.com

CHIPOTLE MIRAMAR FL #2417  
 MIRAMAR, FL, 33027

10/14/2014

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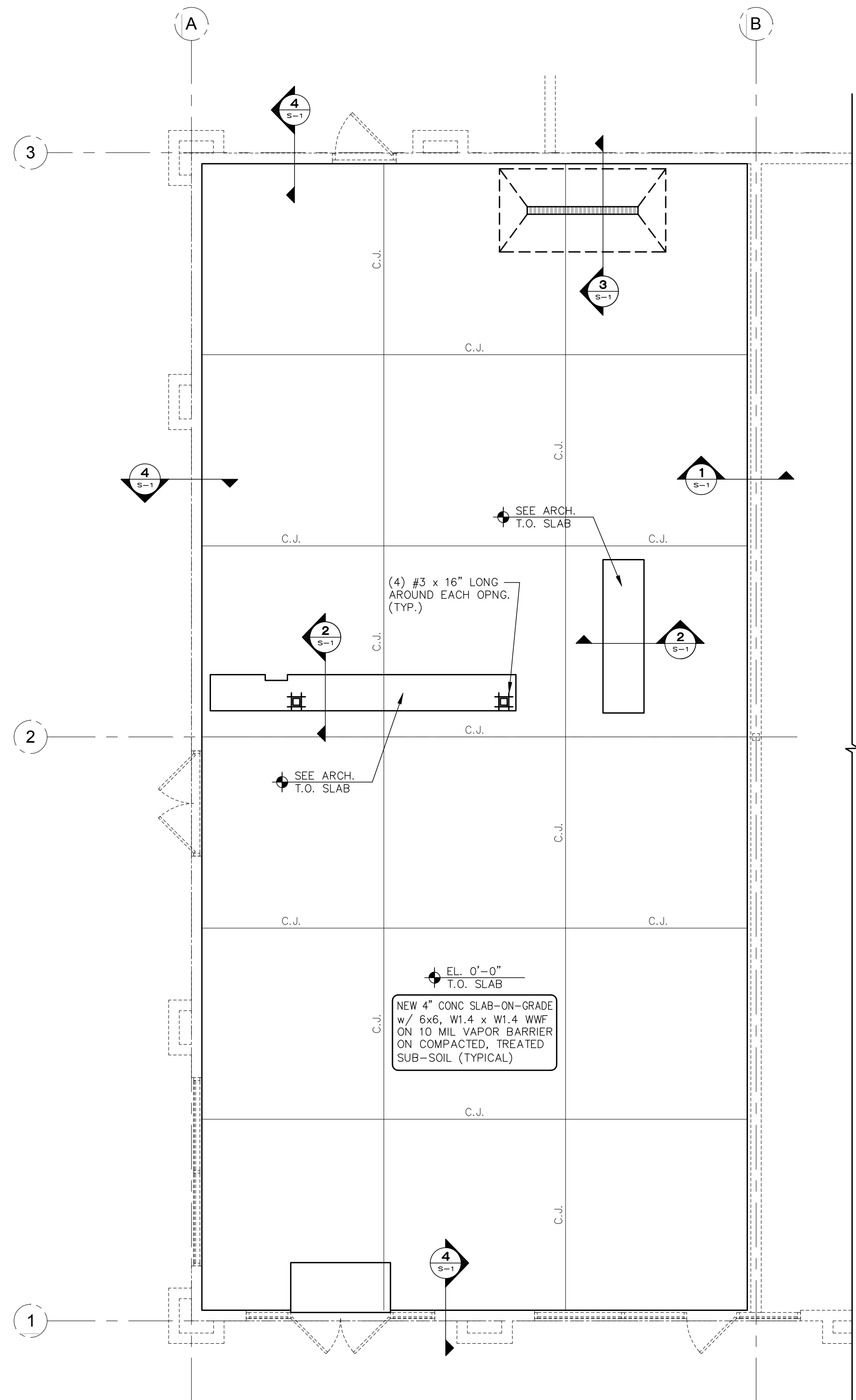
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3/4" = 1'-0"

MASTER DRAWING

HD5





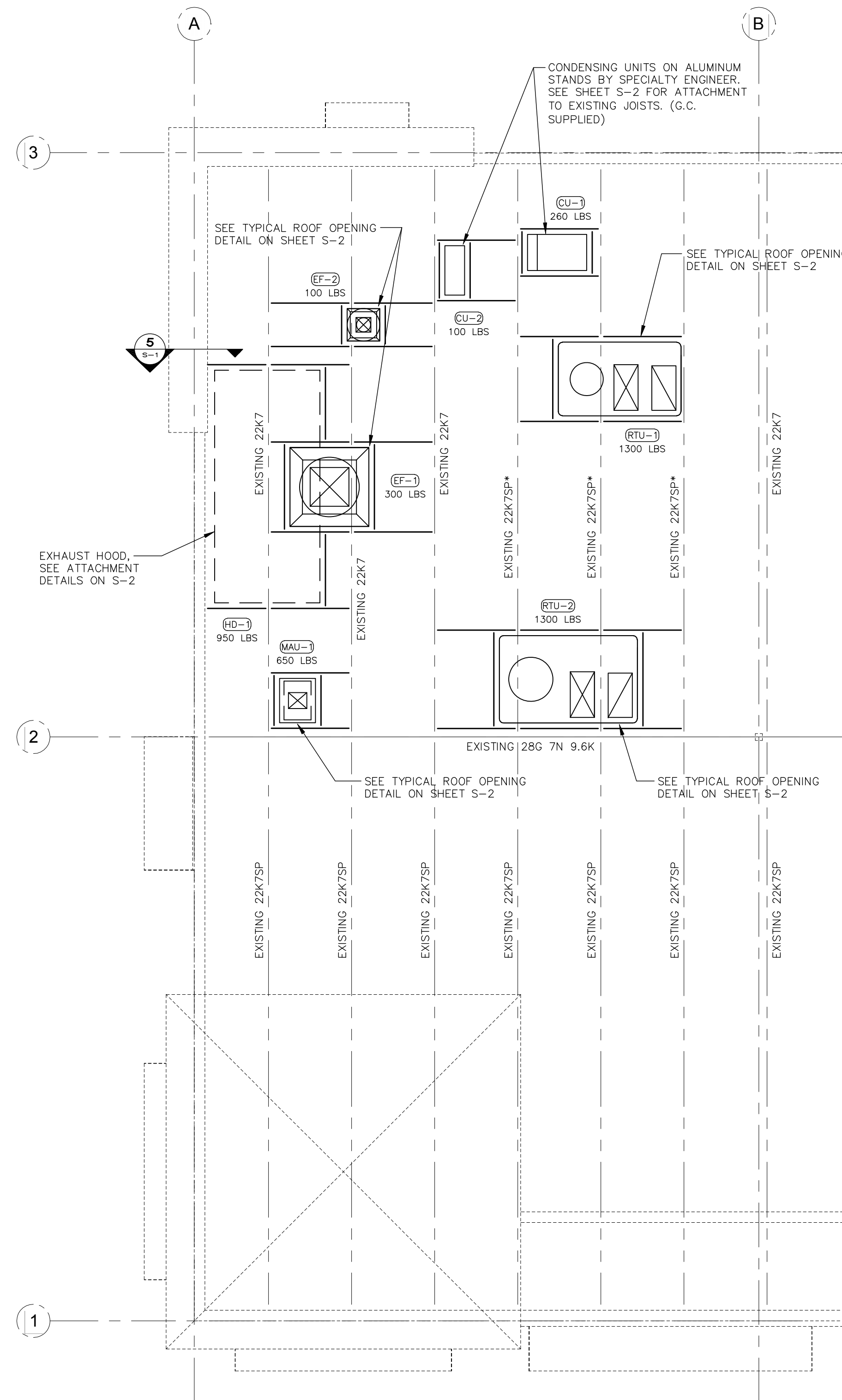
**FOUNDATION PLAN**

SCALE: 3/16"=1'-0"

**FOUNDATION NOTES:**

1. RECOMPACT EXISTING SUBGRADE TO 95% COMPACTION AND TESTED BY GEOTECHNICAL ENGINEER.
2. C.J.- INDICATES SAW CUT CONTROL JOINTS AT 12'-0" o.c. E.W. MAX. TYP.

IF REQUIRED BY AUTHORITY HAVING JURISDICTION, AN INDEPENDENT THIRD PARTY INSPECTOR MUST INSPECT AND PRESENT REPORTS TO THE BUILDING DEPT. FOR WELDING, STRUCTURAL ERECTION AND ASSEMBLY OF STRUCTURES WITH HIGH STRENGTH BOLTS. THE G.C. SHALL NOT CONCEAL ANY STRUCTURAL STEEL UNTIL THE INSPECTION HAS BEEN DONE AND AN APPROVED REPORT IS FILED WITH THE COUNTY.



**ROOF FRAMING PLAN**

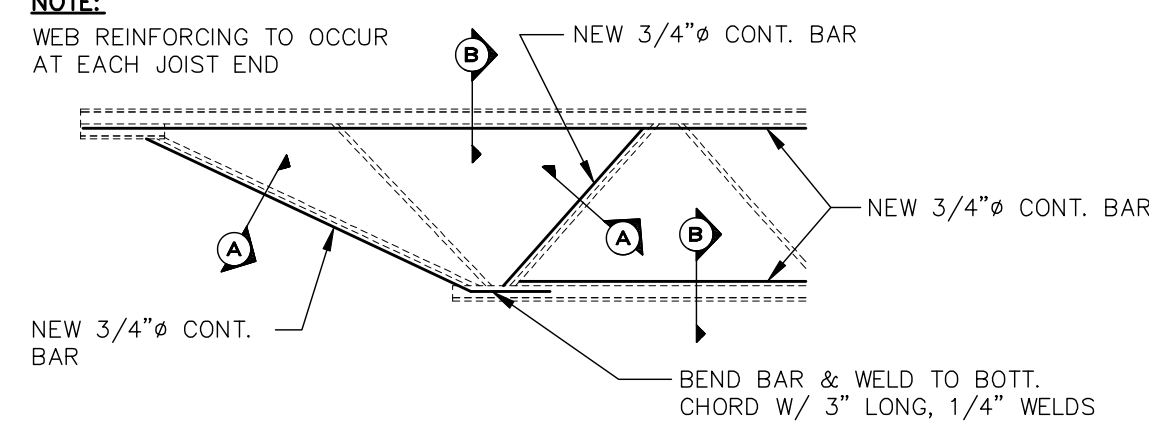
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**ROOF FRAMING PLAN NOTES:**

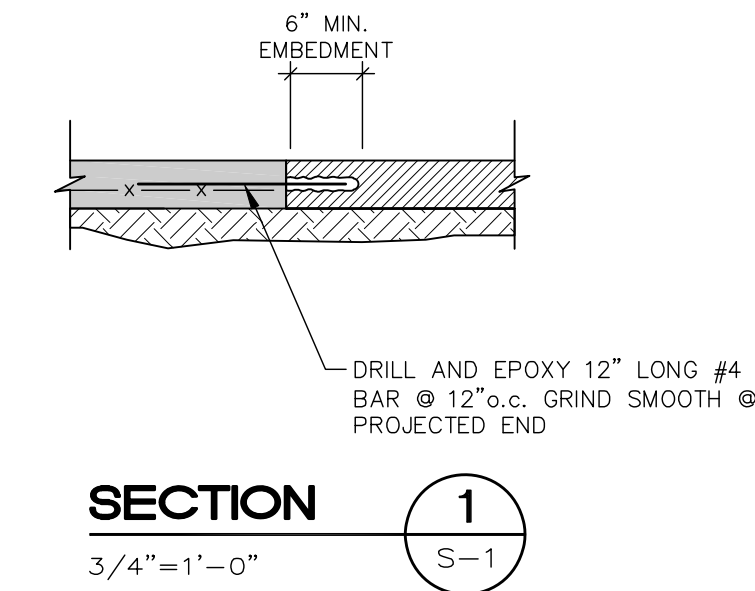
1. REFER TO ARCH'L. FOR LOCATION OF ALL MECH. UNITS.
2. G.C. TO VERIFY ALL EXISTING JOIST CONDITIONS MATCH DRAWINGS.
3. ALL EXISTING ANGLE BRACING TO REMAIN.
4. JOISTS SUPPORTING RTU'S TO HAVE BEEN DESIGNED FOR WEIGHT OF RTU'S IN SHELL PERMIT. G.C. VERIFY.
5. (\*) INDICATES EXISTING ROOF JOIST TO BE REINFORCED.

**NOTE:**

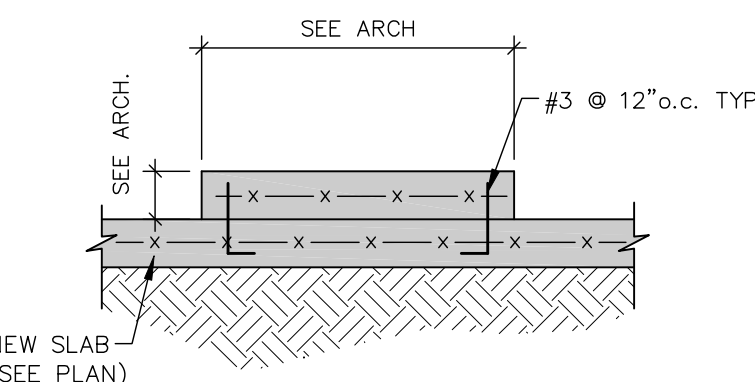
WEB REINFORCING TO OCCUR AT EACH JOIST END



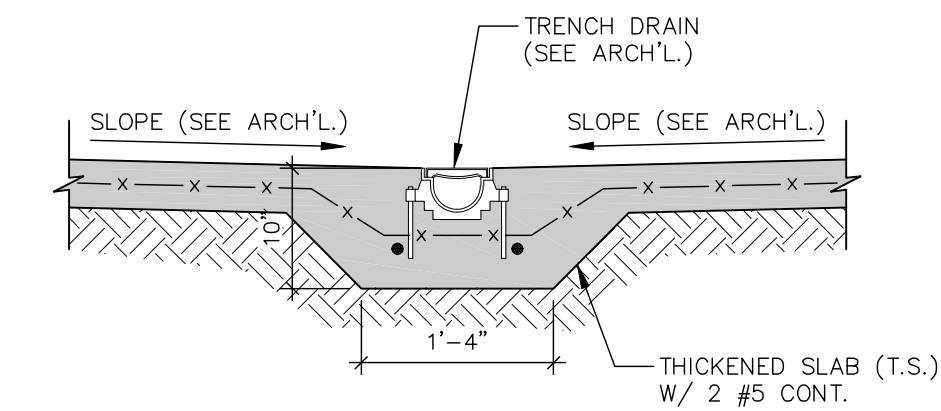
**JOIST REINFORCING DETAIL (SEE NOTE 5)**  
(SEE PLAN FOR JOISTS WITH \*) N.T.S.



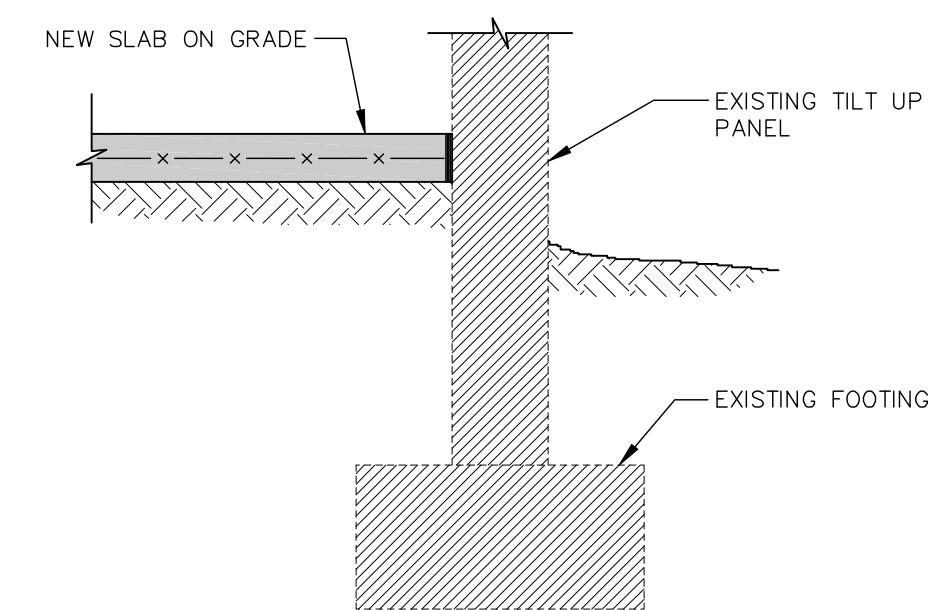
**SECTION 1**  
3/4"=1'-0" S-1



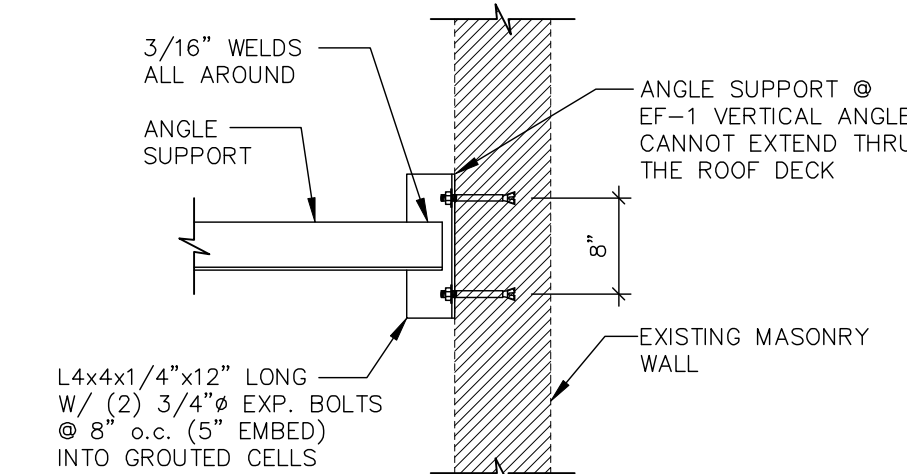
**SECTION 2**  
3/4"=1'-0" S-1



**SECTION 3**  
3/4"=1'-0" S-1



**SECTION 4**  
3/4"=1'-0" S-1



**SECTION 5**  
3/4"=1'-0" S-1

3/4" BAR W/ 2" OF 1/4" WELD EA. END

**SECTION A**

NEW 3/4" CONT. BAR

**SECTION B**

**PERMIT SET**

10/16/14

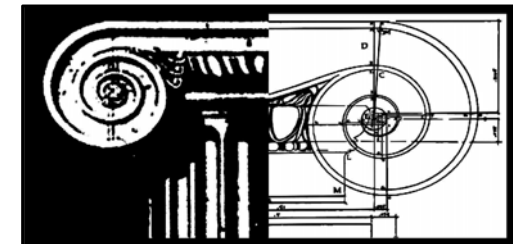
**ONMJ**

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Issue Record:


Revisions:


Drawn:

CB

Checked:

PJR

Project No.

Contents:

**FOUNDATION PLAN & ROOF FRAMING PLAN**

**S-1**

Date:

**CONTRACTOR NOTE:**

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. O'DONNELL, NACCARATO, MIGNOGNA & JACKSON, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION OR FOR RELATED SAFETY PRECAUTIONS AND PROGRAMS.

**CODES AND STANDARDS**

- 1. WIND LOADS AS PER:
  - A. FLORIDA BUILDING CODE 2010 EDITION, FOR AN ULTIMATE WIND SPEED OF 170 MPH, RISK CATEGORY II, EXPOSURE C,  $\mu$  0.18 INTERNAL PRESSURE COEFFICIENT.
- 2. THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE:
  - A. FLORIDA BUILDING CODE 2010 EDITION.
- 3. ARCHITECTURAL AND MECHANICAL DRAWINGS:

- A. THE STRUCTURAL DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS AND DO NOT BY THEMSELVES PROVIDE ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT.
- B. REFER TO ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS, DEPRESSIONS, FINISHES, INSERTS, BOLTS SETTINGS, DRAINS, REGLETS, ETC.
- C. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
- D. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH ANY WORK.
- E. ALL STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LOADS LISTED ONLY AS COMPLETED. THE GENERAL CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT WORK IN PROGRESS UNTIL THE STRUCTURES ARE COMPLETED. THE GENERAL CONTRACTOR SHALL ALSO INSURE THAT ITS OPERATIONS AND PROCEDURES PROVIDE NO LOADING GREATER THAN BY THE DESIGN LOADS LISTED ON ANY MEMBER.

**SECTIONS AND DETAILS:**

ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.

**SPECIALTY ENGINEERED PRODUCTS**

- 1. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PROPER SUBMISSION OF SPECIALTY ENGINEERED SHOP DRAWINGS WHICH SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THE SPECIALTY ENGINEERED SHOP DRAWINGS ARE SUBMITTED IN A TIMELY MANNER SO AS TO ALLOW REVIEWS AND RESUBMISSIONS AS REQUIRED. ALL SPECIALTY ENGINEERED PRODUCTS SHALL BE DESIGNED FOR THE APPROPRIATE GRAVITY LOADS AND WIND LOADS INCLUDING PLIFT AND LATERAL LOADS. INTERIOR SPECIALTY PRODUCTS SHALL BE DESIGNED FOR LATERAL LOADS TO ASSURE STABILITY. SPECIALTY ENGINEERED PRODUCTS SHALL BE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
  - A. LIGHT GAUGE METAL, INCLUDING BUT NOT LIMITED TO, SOFFITS, CLADDING, CEILING, ETC.
  - B. MISCELLANEOUS METALS INCLUDING STEEL STAIRS, MECHANICAL EQUIPMENT SUPPORTS, FRAMES THAT SUPPORT MACHINES, PIPES OR OTHER STRUCTURAL METAL USED FOR SUPPORT OF MECHANICAL SYSTEMS.
  - C. MISCELLANEOUS HANGERS, CHANDELIERS, CABINETS, METAL FRAMES, LADDERS, RIGGING, HANGING WALLS, RAILINGS, GLAZING FRAMES, CLADDING SUCH AS STONE, PRECAST, ALUMINUM, METAL PANELS, CABLE BARRIER SYSTEMS, ETC. OR ANY OTHER MISCELLANEOUS PRODUCT REQUIRED BY ANY OF THE CONSTRUCTION DOCUMENTS.
  - D. IN ADDITION TO THE LOADS SHOWN IN THE DESIGN LOAD SCHEDULE, THE SPECIALTY ENGINEER SHALL DESIGN FOR THE WEIGHT OF ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND FIXTURES, AS WELL AS CHANDELER FIXTURES, BAR CABINETS, AND ART WORK / MOBILES.

GENERAL CONTRACTOR TO INCLUDE IN THEIR BID THE COST OF THE ABOVE NOTED SPECIALTY ENGINEERING.

**ADDITIONS/RENOVATIONS**

- 1. ALL EXISTING CONDITIONS, DIMENSIONS, LOCATIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE GENERAL CONTRACTOR IN THE FIELD AND COORDINATED WITH THE NEW CONSTRUCTION PRIOR TO PREPARATION OF SHOP DRAWINGS OR FABRICATION AND COMMENCEMENT OF ANY WORK. IF DISCREPANCIES ARE DISCOVERED BETWEEN EXISTING CONDITIONS AND CONTRACT WORK, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER PRIOR TO PERFORMANCE OF ANY WORK.
- 2. PRIOR TO SHOP DRAWING PREPARATION, THE GENERAL CONTRACTOR IS TO INVESTIGATE AND VERIFY ACTUAL FIELD CONDITIONS, EXPOSED OR CONCEALED AND TAKE INTO ACCOUNT ANY POSSIBLE CONSTRUCTION INTERFERENCES AND RELOCATIONS OR, BUT NOT LIMITED TO STRUCTURES, EQUIPMENT, UTILITIES, CABLES, DUCT LINES, PIPING, DRAIN LINES, ETC.
- 3. ANY PORTION OF EXISTING STRUCTURE ADJACENT TO THE CONSTRUCTION WHICH MAY BE DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION AS GOOD AS BEFORE THE COMMENCEMENT OF THE WORK AT NO ADDITIONAL COSTS TO THE OWNER.
- 4. EXISTING STRUCTURE SHALL BE PROTECTED, MAINTAINED AND SUPPORTED DURING THE CONSTRUCTION WORK.

**FOUNDATION**

- 1. SOILS SUPPORTING ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE COMMENCING WORK. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN SPECIFIED SOIL BEARING PRESSURE.

**EXCAVATION & BACKFILL:**

- A. ALL EXCAVATION SHALL BE KEPT DRY. EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED. TAKE EVERY PRECAUTION TO GUARD AGAINST ANY MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES, UTILITIES, PIPING, ETC.
- B. PROVIDE ANY BRACING OR SHORING NECESSARY TO AVOID SETTLEMENT OR DISPLACEMENT OF EXISTING FOUNDATION OR STRUCTURES.

**CONCRETE**

- 1. CONCRETE ELEMENTS TO HAVE THE FOLLOWING STRENGTHS:
  - A. SLAB-ON-GRADE 3000 PSI
- 2. ALL CONCRETE SHALL BE READY MIX AND MEET THE FOLLOWING REQUIREMENTS:
  - A. A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS.
  - B. SLUMPS SHALL BE 4" MINIMUM AND 6" MAXIMUM.
  - C. CONCRETE SHALL HAVE 3 ± 1 PERCENT AIR ENTRAINMENT.
  - D. ALL CONCRETE TO HAVE MAXIMUM WATER/CEMENT RATIO OF 0.55.
  - E. JOBSITE WATER SHALL NOT BE ADDED.
- 3. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ACI BUILDING CODE (ACI 318 / LATEST EDITION), THE ACI DETAILING MANUAL (ACI 318 / LATEST EDITION), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301 / LATEST EDITION).
- 4. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A 185, UNLESS OTHERWISE SPECIFIED. PLACE FABRIC 2" CLEAR FROM TOP OF THE SLAB IN SLAB ON GRADE AND SUPPORT ON SLAB BOLSTERS SPACED AT 3'-0" O.C.
- 5. REQUIREMENTS: WWF SHALL COMPLY WITH ASTM A 185.

**STEEL**

- 1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERRECTED IN ACCORDANCE WITH THE LATEST AISC CODE. STRUCTURAL STEEL SHALL CONFORM TO:
  - A. ASTM SPECIFICATION A 36 FOR MISCELLANEOUS STEEL SHAPES (ANGLES, PLATES, ETC.), NEW STEEL COLUMNS TO BE A500 GRADE B ( $f_y = 46$  KSI).
  - B. ALL STEEL TO HAVE A SHOP COAT OF RUST INHIBITIVE PAINT.
  - C. DELETE PAINT ON ALL STEEL TO RECEIVE SPRAYED ON FIREPROOFING OR CONCRETE ENCASUREMENT.

**STEEL CONTINUED**

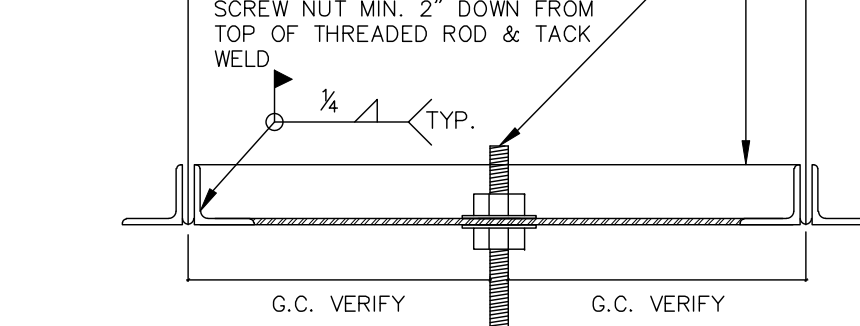
- 2. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" (AWS D1.1), TO PERFORM THE TYPE OF WORK REQUIRED.
- 3. ALL ALUMINUM AND STEEL MEMBERS TO BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS.
- 4. ALL STEEL WELDING RODS SHALL BE E70XX ELECTRODES.

**EQUIPMENT SUPPORTS:**

- PROVIDE ALL SUPPORTING STEEL NOT INDICATED ON PLAN AS REQUIRED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT AND MATERIALS, INCLUDING ANGLES, CHANNELS, BEAMS, HANGERS, ETC. DO NOT SUPPORT EQUIPMENT OR PIPING FROM METAL DECKING.

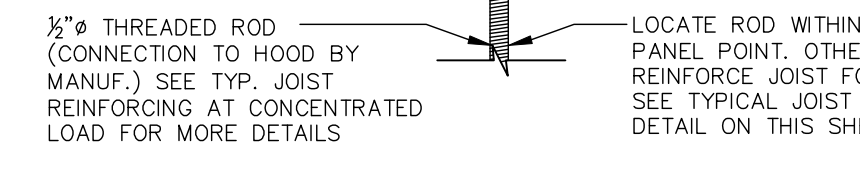
**SHOP DRAWINGS**

- 1. THE SHOP DRAWINGS SHALL BE SUBMITTED IN COMPLETE PACKAGES FOR THE FOLLOWING:
  - A. CONCRETE MIX DESIGNS
  - B. CONCRETE REINFORCING STEEL AND WELDED WIRE FABRIC
- 2. PRE-ENGINEERED ITEMS SHALL BE SUBMITTED SIGNED AND SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA.



**TYPICAL JOIST REINFORCING AT CONCENTRATED LOAD**

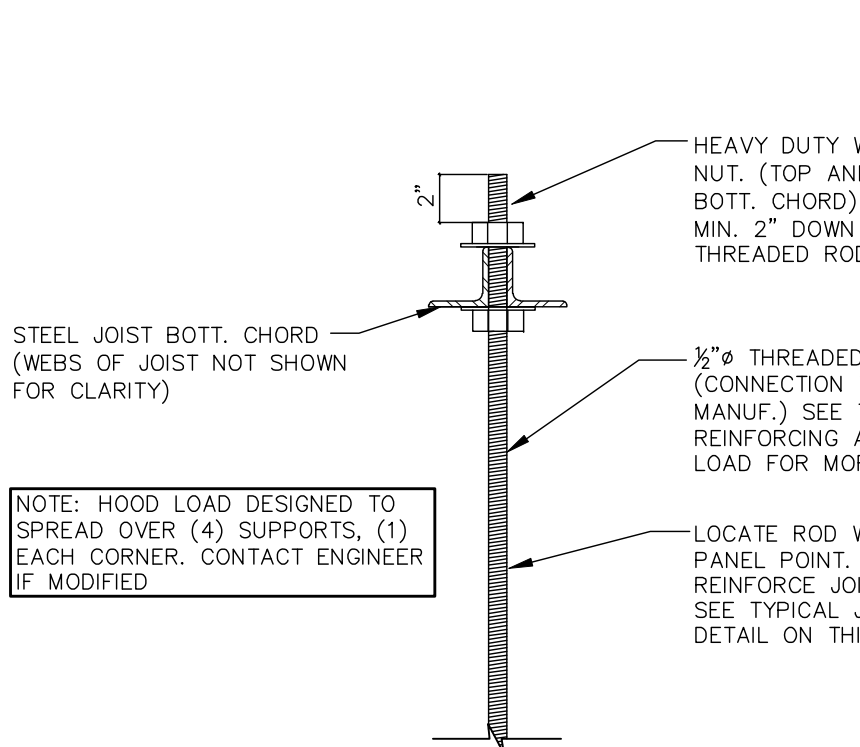
N.T.S.



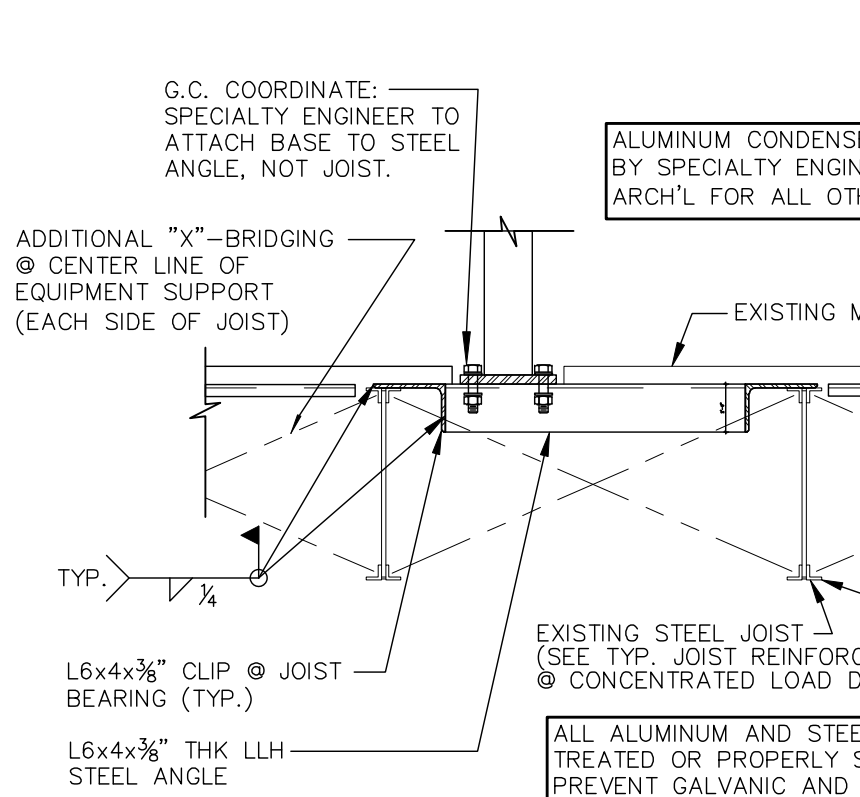
**SUPPORT LOCATED BETWEEN STEEL JOIST**

**TYPICAL HANGING HOOD DETAILS**

N.T.S.



**SUPPORT LOCATED AT STEEL JOIST**



**TYPICAL ALUMINUM C.U. RACK ATTACHMENT DETAIL**

N.T.S.

**CRITERIA FOR C.U. RACK:**

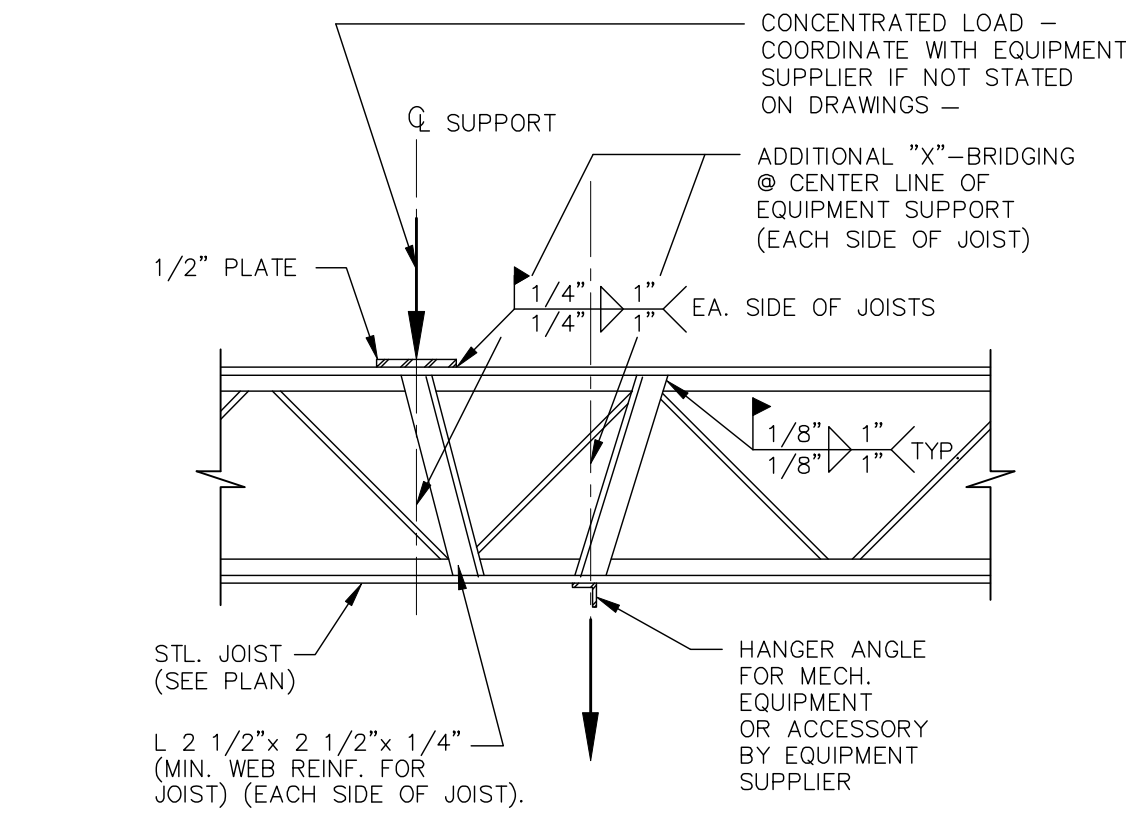
- 110 psf WIND PRESSURE
- DIMENSIONS AND WEIGHT: VERIFY WITH MEP AND ARCH'L.

ULTIMATE					
COMPONENT & CLADDING WIND DESIGN PRESSURES					
PRESSURES BASED ON $V_{50}$	ROOF WIND LOADS (10.50 FT)			WALL WIND LOADS (SEE NOTE 1)	
	1	2	3	4	5
Kd IS INCLUDED					
PRESSURE (PSF)	+31.4	+70.5	+70.5	+70.5	+70.5
SUCTION (PSF)	-77.0	-129.2	-129.2	-76.4	-94.0

- EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH 2010 FLORIDA BUILDING CODE BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS.
- WIND DESIGN PRESSURES NOTED MAY BE MULTIPLIED BY (6) FOR COMPARISON TO ALLOWABLE (NOMINAL) WIND PRESSURES OF TESTED ASSEMBLIES. PER SECTION 1609.1.5 OF 2010 FBC.
- REFER TO STRUCTURAL NOTES FOR ALL WIND LOAD PARAMETERS.
- CORNER DISTANCE, A = 8 FEET

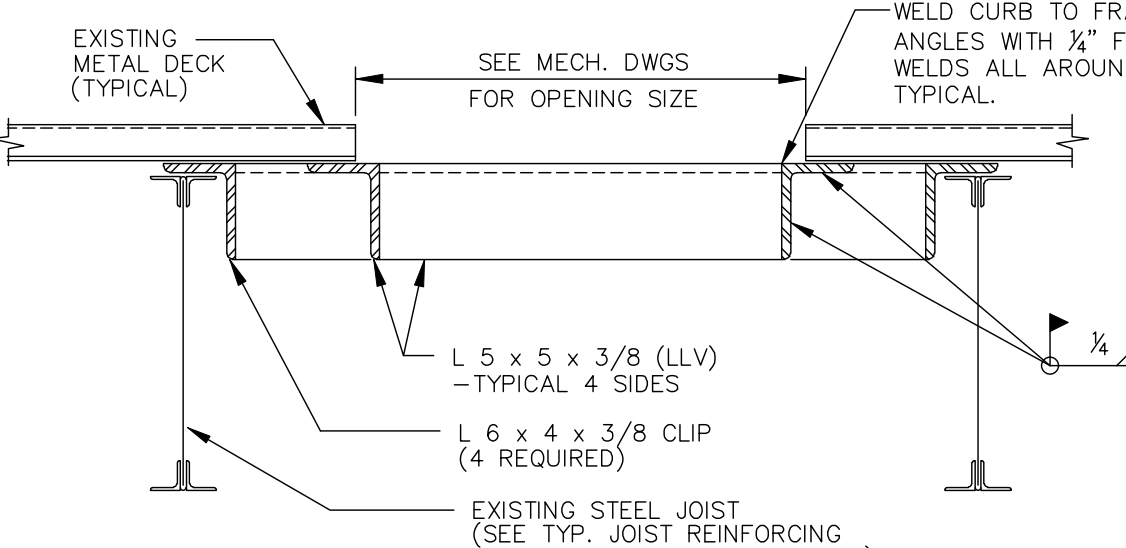
ALLOWABLE					
COMPONENT & CLADDING WIND DESIGN PRESSURES					
PRESSURES BASED ON $V_{50}$	ROOF WIND LOADS (10.50 FT)			WALL WIND LOADS (SEE NOTE 1)	
	1	2	3	4	5
Kd IS INCLUDED					
PRESSURE (PSF)	+18.8	+42.3	+42.3	+42.3	+42.3
SUCTION (PSF)	-46.2	-77.5	-77.5	-45.8	-56.4

- EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH 2010 FLORIDA BUILDING CODE BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS.
- REFER TO STRUCTURAL NOTES FOR ALL WIND LOAD PARAMETERS.
- CORNER DISTANCE, A = 8 FEET



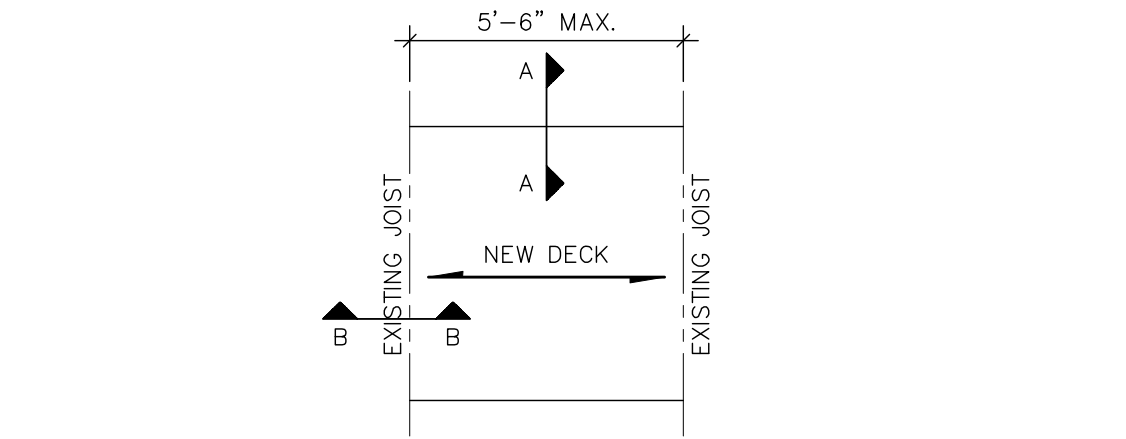
**TYPICAL MAKE UP AIR (MAU-1) CURB ATTACHMENT DETAIL**

N.T.S.



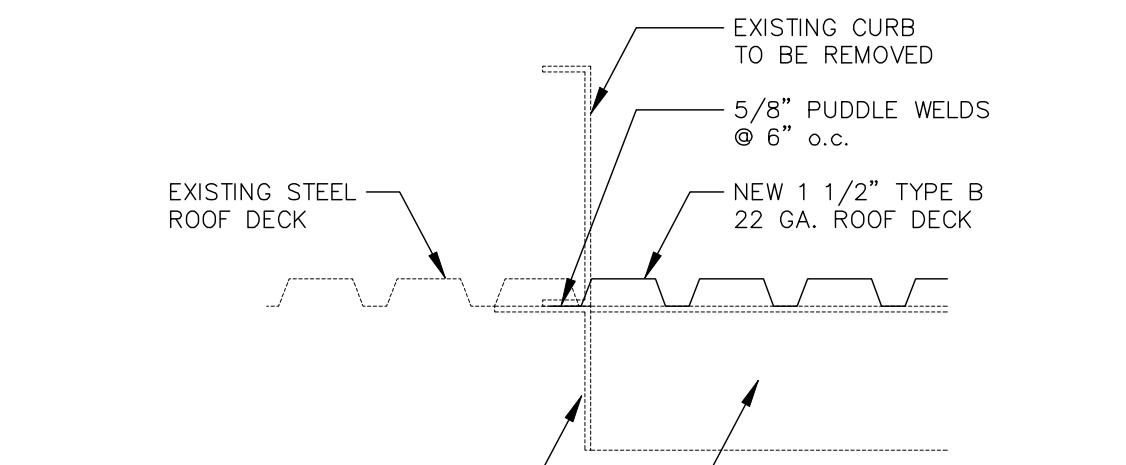
**TYPICAL ROOF OPENING DETAIL - JOISTS**

N.T.S.



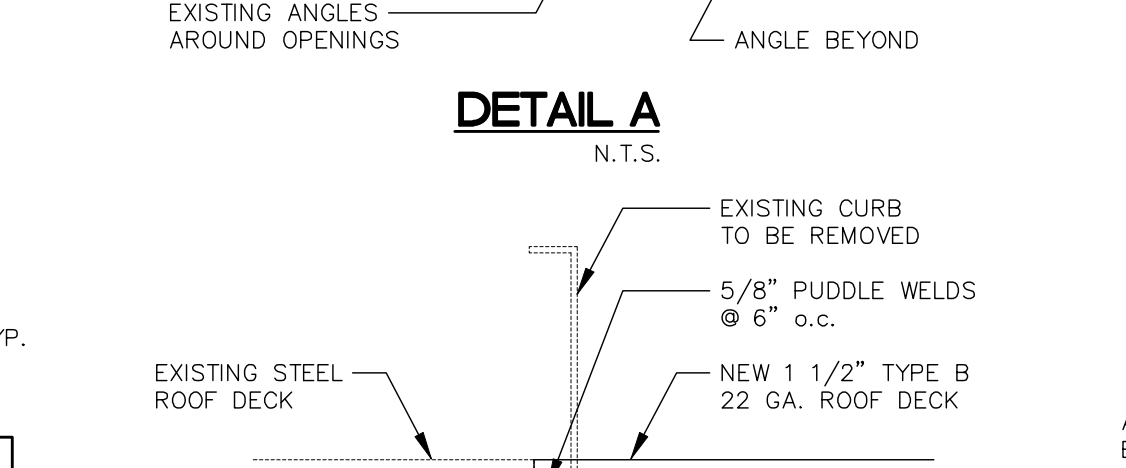
**INFILL OF EXISTING OPENING IN ROOF DETAIL (IF REQUIRED)**

N.T.S.



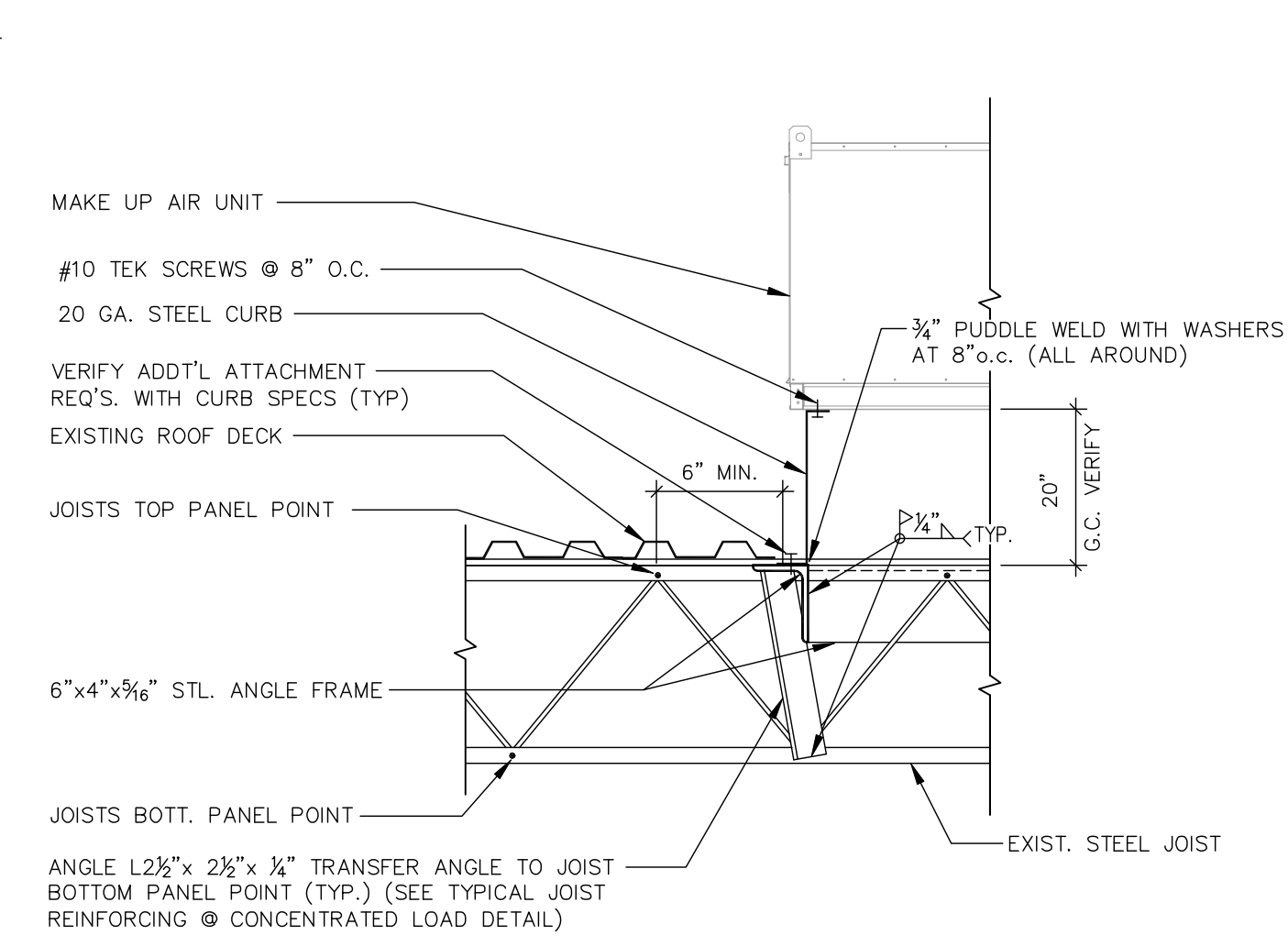
**TYPICAL EXHAUST FAN (EF-1) CURB ATTACHMENT DETAIL**

N.T.S.



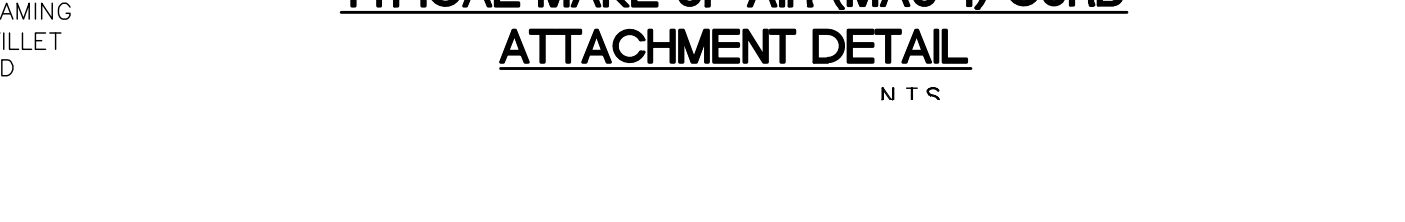
**TYPICAL EXHAUST FAN (EF-2, EF-3) CURB ATTACHMENT DETAIL**

N.T.S.



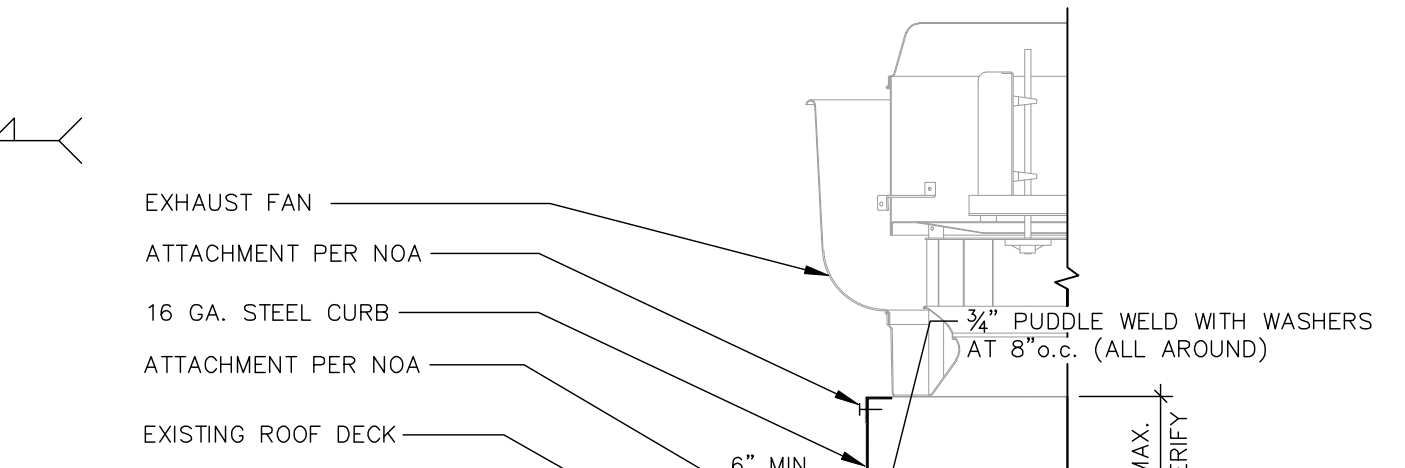
**TYPICAL UNIT TO CURB ATTACHMENT DETAIL**

N.T.S.



**ALTERNATIVE MECHANICAL UNIT ROOF ATTACHMENT**

N.T.S.



**ALTERNATIVE MECHANICAL UNIT ROOF ATTACHMENT**

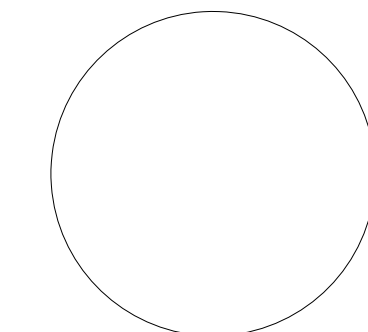
N.T.S.

NOTE: GENERAL CONTRACTOR SHALL CONSTRUCT BRACKET OF 3/8" GALVANIZED STEEL. INSTALL BRACKETS @ LONG SIDE @ EACH UNIT CORNER TYP. (4 TOTAL).

FIELD VERIFY CURB CONFIGURATION AND BRACKET DIMENSIONS PRIOR TO FABRICATING

**TYPICAL UNIT TO CURB ATTACHMENT DETAIL**

N.T.S.



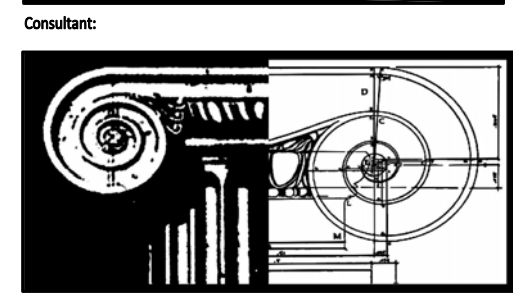
**PERMIT SET**

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Project No:

CONTENTS: SCHEDULES, DETAILS & STRUCTURAL NOTES

Date:



MECHANICAL SPECIFICATIONS

SECTION 15080 - MECHANICAL INSULATION

- PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Quality Assurance: Labeled with maximum flame-spread rating of 25 and maximum smoke developed rating of 50 according to ASTM E 84.

- PART 2 - PRODUCTS
2.1 PIPE INSULATION
A. Preformed Glass Fiber Pipe Insulation: ASTM C 547, Class 1, with factory applied, all purpose, vapor retarder jacket.
B. Polyolefin Pipe Insulation: Unicellular polyethylene, preformed pipe insulation. Comply with ASTM C 534, Type I, except for density.

- PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vapor barriers on insulated pipes with surface operating temperatures below 60 deg F.
B. Insulate fittings, valves, and specialties.
C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections.
D. Coat glass fiber pipe insulation ends with vapor barrier coating.
E. Roof Penetrations: Apply insulation for interior applications to a point even with the top of the roof flashing.
F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.

- G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.
H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetrations through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.
I. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.
J. Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with vapor barrier compound.
K. Interior Piping System Applications: Insulate the following piping systems:
1. Domestic hot and cold water.
2. Exposed sanitary drains of fixtures for the disabled.
3. Refrigerant piping.
L. Do not apply insulation to the following systems, materials, and equipment:
1. Flexible connectors.
2. Fire protection piping systems.
3. Sanitary drainage and vent piping.
4. Chrome plated pipes and fittings, except for plumbing fixtures for the disabled.
5. Piping specialties, including air chambers, unions, strainers, check valves, plug valves, and flow regulators.
M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and thicknesses:
1. Domestic Hot and Cold Water: 1/2-inch preformed glass fiber pipe insulation.
2. Sanitary Drains: 1/2-inch polyolefin pipe insulation.

END OF SECTION 15080

SECTION 15554 - FLUES AND VENTS

- PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
PART 2 - PRODUCTS
2.1 GAS VENTS
A. Vent/air intake for high efficiency domestic water heater. Size per manufacturer's recommendation.
B. Accessories: Tees, elbows, increasers, draft hood connectors, metal cap with bird barrier, adjustable roof flashing, storm collar, support assembly, thimbles, firestopping spacers, and fasteners; fabricated of similar materials and designs as vent-pipe straight sections.

- PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vents according to stipulated minimum clearances from combustibles.
B. Seal between sections of positive pressure vents using only sealants recommended by manufacturer.
C. Support vents at intervals to support the weight of the vent and all accessories, without exceeding loading of appliances.
END OF SECTION 15554

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

- PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and Shop Drawings.
B. Comply with ASHRAE 15.
C. EER: Equal to or greater than prescribed by ASHRAE 90.1, "Energy Efficient Design of New Building, except Low Rise Residential Buildings."
D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.
PART 2 - PRODUCTS
2.1 PACKAGED UNITS, 5 TO 20 TONS
A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M200 for capacities, and manufacturers.
2. Evaporator Fans: Belt driven, forward curved centrifugal.
3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
4. Condenser Fans: Direct drive propeller.
5. Refrigerant Coils: Aluminum fins and copper coil.
6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.
8. Economizer controls (Comparative Enthalpy, 100% capacity).
9. Low ambient controls.
10. Smoke Detectors: Photoelectric.
11. Operating Controls: Two stage heating and two stage cooling on units 8-1/2 tons and over.
12. Roof curb.
13. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
14. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.

- PART 3 - EXECUTION
3.1 INSTALLATION
A. Install units level and plumb and firmly anchored.
B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
C. Connect to supply and return hydronic piping with shutoff valve and union or flange at each connection.
D. Install ducts to termination in roof mounting frames. Terminate return air duct through roof structure.
E. Connect units to wiring systems and to ground.
END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

- PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data for fire and smoke dampers.
B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," Chapter 3, "Duct System," for range hood ducts, except single family residential usage, unless otherwise indicated.
E. Comply with UL 181 and UL 181A for ducts and closures.
F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified.
PART 2 - PRODUCTS
2.1 DUCTS
A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
B. Galvanized Steel Sheet: Forming steel, ASTM A 653/953M, G90 coating designation.
C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch, R-value : 6.3.
1. Adhesive: ASTM C 916, Type I.
2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
D. Joint and Seam Tape: Comply with UL 181A.
E. Joint and Seam Sealant: Comply with UL 181A.
F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

- 2.2 ACCESSORIES
A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

- PART 3 - EXECUTION
3.1 INSTALLATION
A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
C. Avoid passing through electrical equipment spaces and enclosures.
D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
F. Install liner on all supply and return duct.
G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
I. Install fusible links in fire dampers.
J. Provide saddle taps at tees for exposed ductwork.
3.2 TESTING, ADJUSTING, AND BALANCING
A. The owner will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
B. The general contractor is to have trained staffed available during the balancing to correct issues noted by the balance agent.
C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
D. The balance agent is to supply a copy of the balance report to the owner, engineer and general contractor for review.
END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

- PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
PART 2 - PRODUCTS
2.1 OUTLETS AND INLETS
A. Diffusers:
1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
3. Material: As scheduled.
4. Finish: As scheduled.
5. Mounting: As scheduled.
B. Wall and Ceiling Registers:
1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
3. Material: As scheduled.
4. Finish: As Scheduled.
5. Mounting: Countersunk screw.
C. Wall and Ceiling Grilles:
6. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
7. Manufacturer: As scheduled (NO SUBSTITUTIONS)
8. Material: As scheduled.
9. Finish: As Scheduled.
10. Mounting: Countersunk screw or lay in depending location.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
B. Locate ceiling diffusers, registers, and grilles, as indicated on general construction "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.
END OF SECTION 15855

SECTION 15900 - HVAC INSTRUMENTATION AND CONTROLS

- PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Summary: Electric/electronic control sequences for HVAC systems and equipment.
B. Submittals: Shop Drawings detailing operating control sequences of each item of HVAC equipment and system and Product Data for controllers, sensors, operators, control panels, thermostats, humidistats, actuators, control valves and dampers.
C. System Description: Control systems consists of sensors, indicators, actuators, final control elements, interface equipment, and other apparatus, accessories, required to operate mechanical systems according to sequences of operation indicated and specified.
D. Operation Sequence:
1. Unoccupied Cycle: During unoccupied hours as set by a programmable thermostat the outside air and return dampers for the HVAC unit close, and the thermostat set point resets to 65° F (user adjustable). Upon a call for heating, the HVAC unit energizes.
2. Occupied Cycle: During occupied hours, as set by a programmable thermostat the outside air and return dampers open to a minimum set point. The furnace and exhaust fans run continuously. Upon a call for heating, the furnace heating energizes. Upon a call for cooling, the condensing unit energizes.
PART 2 - PRODUCTS (Not Applicable)
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install control wiring concealed, except in mechanical rooms, and according to requirements specified in Division 16 Sections.
END OF SECTION 15900



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Issue Record table with columns for Issue Record, Date, and Permit & Landlord Review.

Revisions table with columns for Revision, Description, and Date.

Drawn: AMD
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Project No. 1401051

Contents:

Mechanical Specifications

M010

Date of Last Print: 1-30-15



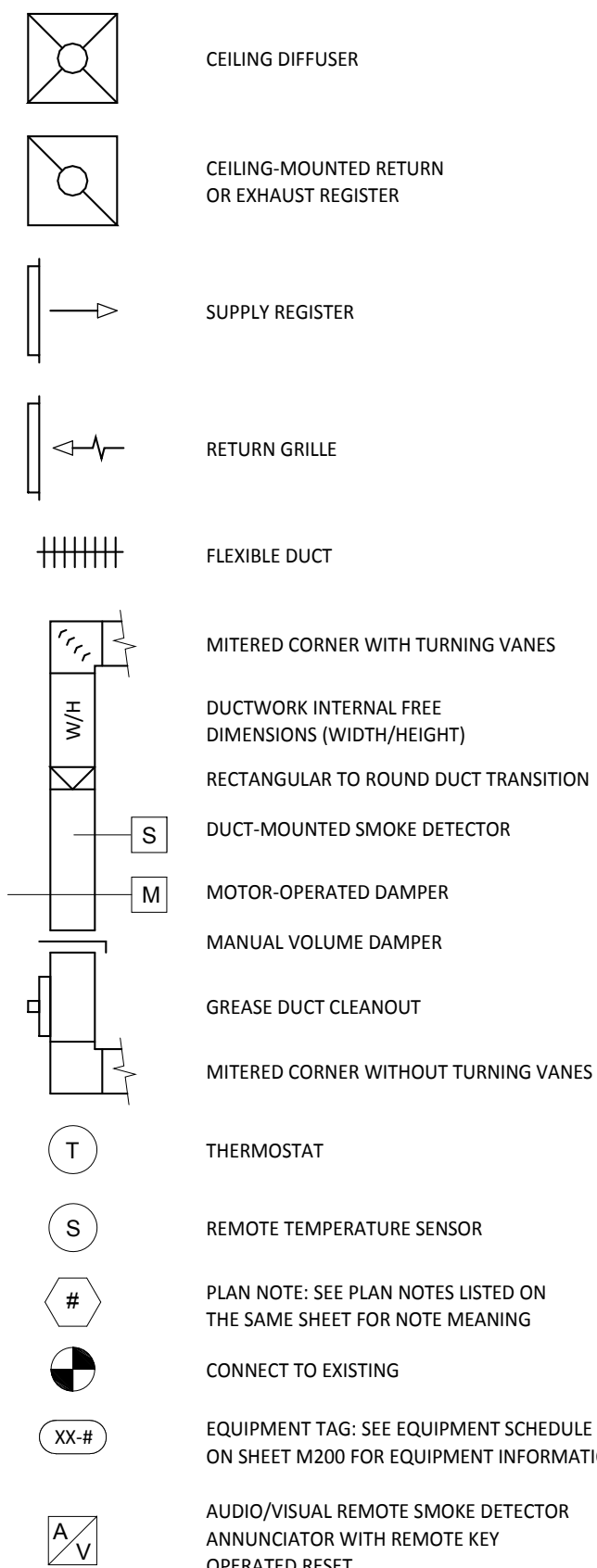
# PLAN NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
- REFER TO ARCHITECTURAL SHEETS FOR SUPPLY REGISTER ELEVATIONS AND LOCATIONS.
- 18/16 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
- 20/16 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION. ROUTE DUCT TIGHT TO DECK OR THROUGH JOIST GIRDER IF POSSIBLE.
- 18/16 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 20/18 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- 16/16 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 10/14 DUCTS UP FROM HOOD TO 20/14 DUCT THROUGH ROOF TO EF-1. PROVIDE RADIOUS ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
- 8/6 DUCT UP THROUGH ROOF TO RTU-2.
- 16/10 DUCT DOWN TO MAKEUP AIR P5P DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 4.
- 8" DIA. DUCT DOWN TO AC P5P DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- PROVIDE REMOTE TEMPERATURE SENSOR FOR RTU-1 AT THIS LOCATION @ 5'-0" AFF. COORDINATE LOCATION WITH EQUIPMENT.
- PROVIDE REMOTE TEMPERATURE AND HUMIDITY SENSORS FOR RTU-2 AT THIS LOCATION @ 5'-0" AFF. COORDINATE LOCATION WITH EQUIPMENT AND WALL MOUNTED ARTWORK.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION @ 5'-0" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
- INSTALL CHIPOTLE-FURNISHED "LIGHTSTAT" THERMOSTATS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA AND EXTEND WIRING TO REMOTE TEMPERATURE SENSORS AND ROOFTOP UNITS. LABEL EACH THERMOSTAT ACCORDINGLY. COORDINATE THERMOSTAT LOCATION WITH WALL-MOUNTED EQUIPMENT SO THAT THERMOSTATS ARE NOT OBSCURED BY SHELVING, COAT RACKS, OR DOORS.
- INSTALL CHIPOTLE-FURNISHED KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 4, AND 5/M300. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM. HOOD IS DESIGNED TO COMPLY WITH FBC MECHANICAL 507.2.1.1.
- INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH COOLER ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
- INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE WATER HEATER COMBUSTION AIR AND FLUE VENTS THROUGH THE ROOF PER DETAIL 1/P300. MAINTAIN 10" MINIMUM SEPARATION BETWEEN FLUE VENT AND VENTILATION AIR INTAKES. TERMINATE PER THE WATER HEATER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALL EXHAUST FAN EF-1 PER DETAIL 6/M300. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M300. TYPICAL.
- PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 72" AFF AT THIS LOCATION. GC SHALL COORDINATE WITH INSPECTOR.
- INSTALL RETURN GRILL IN TOP OF JOIST SHELF, FACING THE DECK SO CONCEALED FROM VIEW FROM THE DINING ROOM.
- PROVIDE EXHAUST REGISTER CONCEALED IN RESTROOM COVE AS SHOWN IN SECTION 2/M100.
- SUPPORT EXPOSED ROUND DUCTWORK PER DETAIL 7/M300. CONSTRUCT EXPOSED SPIRAL DUCT USING FITTINGS MANUFACTURED BY SPIRAL DUCT MANUFACTURER. USE COMBINATION OF FITTINGS AVAILABLE TO MATCH DUCT LAYOUT ON PLAN. REFER TO ARCH FOR LOCATION.

HVAC GENERAL NOTES

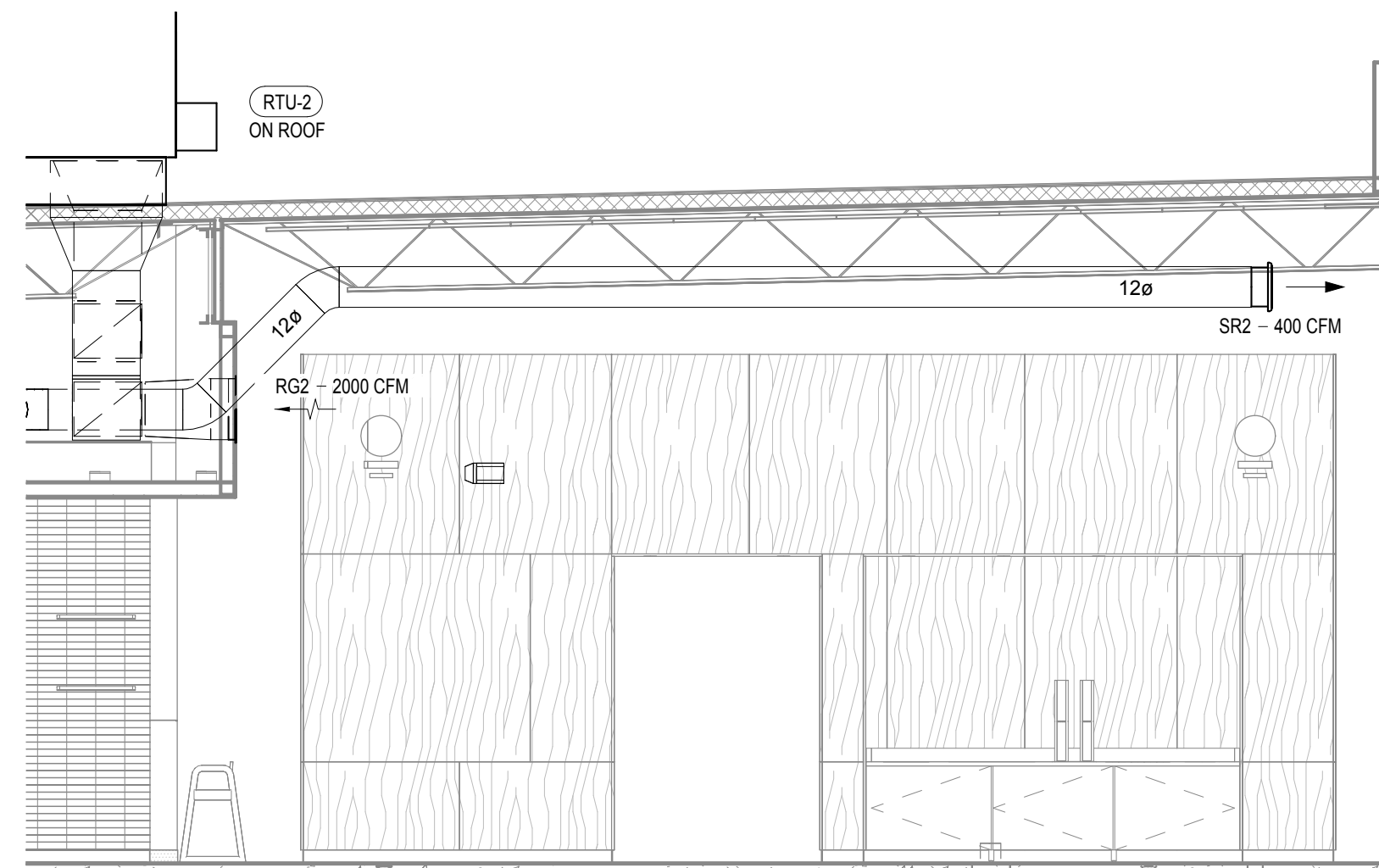
- A GENERAL NOTES APPLY TO HVAC SHEETS.
- B WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE SHEET A000 FOR THE PREVAILING CODES.
- C CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- D COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
- E DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- G PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- H COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- I UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIOUS ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
- J REPLACE AIR FILTERS WITH NEW, CLEAN MERV 7 AIR FILTERS AT TURNOVER.
- K THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL COMPLETE AND READY FOR THE INTENDED USE. SUPPLY ALL MECHANICAL EQUIPMENT WITH MOTORIZED DAMPERS IF REQUIRED BY CODE.

HVAC SYMBOLS



ABBREVIATIONS

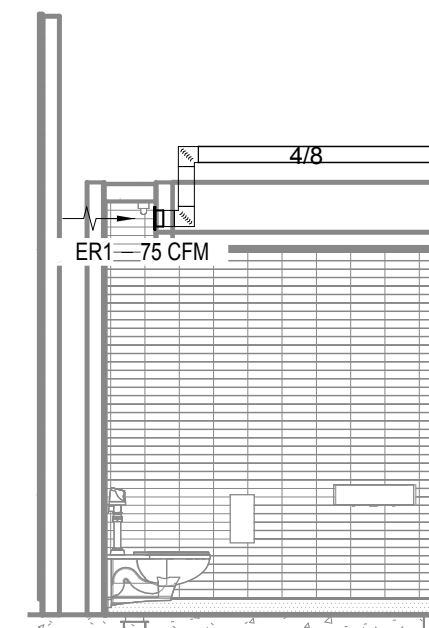
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CD	CEILING DIFFUSER
CU	CONDENSING UNIT
EF	EXHAUST FAN
ER	EXHAUST REGISTER
EXTG	EXISTING
HD	HOOD
MUA	MAKEUP AIR UNIT
OB	BLADE DAMPER
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
THS	TENANT'S HOOD SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
WCS	TENANT'S WALK-IN COOLER SUPPLIER



3 HVAC BOX SECTION  
1/4" = 1'-0"

MATERIAL SCHEDULE

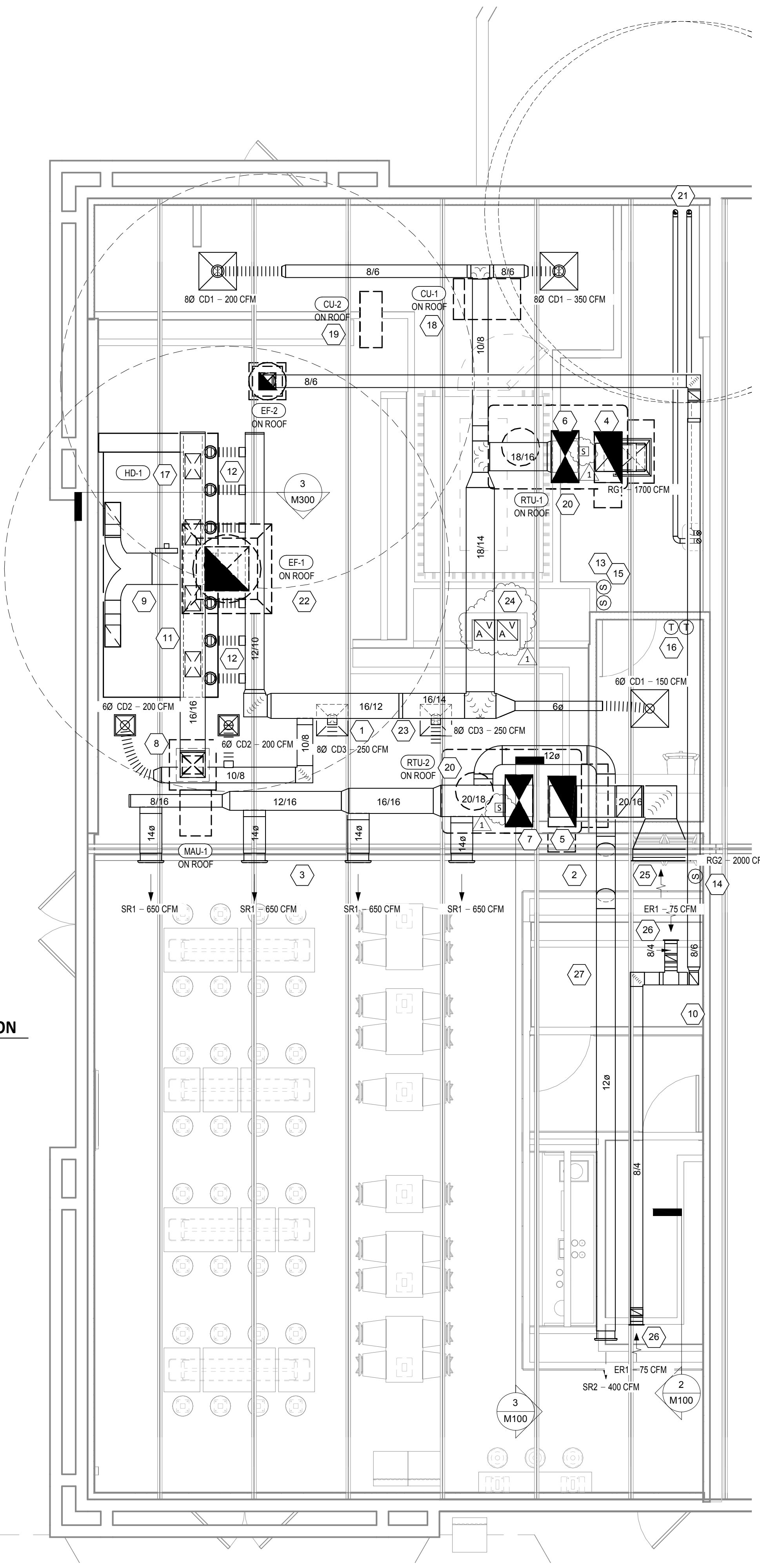
CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, PAINTED TO MATCH ROOF DECK
	EXPOSED RETURN	RECTANGULAR, PAINTED TO MATCH ROOF DECK
	EXPOSED GEN. EXHAUST	RECTANGULAR, PAINTED TO MATCH ROOF DECK
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
DUCT	CONCEALED, GEN. EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)



2 RESTROOM HVAC SOFFIT SECTION  
1/4" = 1'-0"

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

Tag	Furnished By	Installed By	Manufacturer	Model	Description	Size	Material	Finish	Mounting	Notes
CD1	GC	GC	Nailor	4320A Type L	Perforated Ceiling Diffuser	Face: 24" x 24" Neck: Varies	Aluminum	White	Lay-in Ceilings	Provide integral OBD
CD2	GC	GC	Nailor	4320A Type S	Perforated Ceiling Diffuser	Face: 12" x 12" Neck: 6"Ø	Aluminum	White	Ceiling	Provide integral OBD, Remove 4-way deflector
CD3	GC	GC	Nailor	4320A Type S	Perforated Ceiling Diffuser	Face: 20" x 20" Neck: Varies	Aluminum	White	Ceiling	Provide integral OBD
ER1	GC	GC	Nailor	51FH	0" Fixed Blade Return Grill	Neck: 8" x 4"	Aluminum	White	Wall	Provide integral OBD
RG1	GC	GC	Nailor	4330R Type S	Perforated Ceiling Return	Face: 24" x 24" Neck 22" x 22"	Aluminum	White	Lay-in Ceilings	
RG2	GC	GC	Nailor	51FH	0" Fixed Blade Return Grill	Neck: 36" x 18"	Aluminum	White	Wall	Provide integral OBD
SR1	GC	GC	Seiho	NT14	Adjustable Turbo Nozzle	Neck: 14"Ø	Aluminum	White	Wall	Provide with face-accessible OBD
SR2	GC	GC	Seiho	NTX 10R	Adjustable Turbo Nozzle	Neck: 12"Ø	Aluminum	Paint to match duct	Duct	Provide with face-accessible OBD



1 HVAC FLOOR PLAN  
1/4" = 1'-0"



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1-30-15	FOR BIDDING

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1 12-17-14	

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HVAC Plan

M100

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Contents:

HVAC Schedules

M200

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1-30-15

**CONTROL FUNCTIONS**

- A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS USING A BUILT-IN LIGHT SENSOR, SUCH THAT WHEN THE AMBIENT LIGHT IS ABOVE AN ADJUSTABLE SETPOINT THE SYSTEM SHALL BE IN OCCUPIED MODE AND WHEN THE AMBIENT LIGHT IS BELOW AN ADJUSTABLE SETPOINT THE SYSTEM SHALL BE IN UNOCCUPIED MODE.

**OA VENTILATION CFM**

ZONE	REQUIRED OA CFM	ACTUAL OA CFM
KITCHEN	607	2925
OFFICE	5	34
DINING	636	1000
RESTROOMS	100	150

\*\*\*CALCULATIONS OF THESE VALUES WERE CONDUCTED USING TABLE 403 IN THE MECHANICAL PORTION OF THE 2010 FLORIDA BUILDING CODE.

**AIR BALANCE SCHEDULE**

TAG	OUTSIDE AIR CFM	EXHAUST CFM	NET CFM
EF-1		2925	-2925
EF-2		150	-150
MAU-1	1575		1575
RTU-1	500		500
RTU-2	1000		1000
TOTAL			0

**FAN SCHEDULE**

Tag	Drive Type	Exhaust Flow	E.S.P.	Weight	Electrical		Furnished By	Installed By	Basis for Design		Remarks
					Motor Power	V/P/H			Manufacturer	Model	
EF-1	Belt	2925 CFM	1.20 in-wg	300	2 HP	208/3/60	THS	GC	Captive-Aire	NCA24HPFA	WITH DISCONNECT AND VENTED ROOF CURB
EF-2	Direct	150 CFM	0.60 in-wg	100	0.18 HP	120/1/60	THS	GC	Captive-Aire	DR12HFA	WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER AND ROOF CURB

**MAKEUP AIR UNIT SCHEDULE**

Tag	Description	Airflow		Heating Capacity				Electrical		Furnished By	Installed By	Basis for Design		Remarks	
		Supply Flow [CFM]	E.S.P. [IN. W.C.]	Input [MBH]	Output [MBH]	Maximum Turndown	EAT	Approximate Weight [LBS]	Motor Power			V/P/H	Manufacturer		Model
MAU-1	Untempered Makeup Air Unit	1575	0.80					350	1 HP	208/3/60	THS	GC	Captive-Aire	A1-G10	FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

**CONDENSING UNIT SCHEDULE**

Tag	Description	Nominal Capacity [Tons]	No. of Compressors	No. of Circuits	Refrigerant Type	Refrigerant Charge	Weight	Electrical			Furnished By	Installed By	Basis for Design		Remarks
								MOCP	FLA	V/P/H			Manufacturer	Model	
CU-1	Walk-in Cooler Remote Condensing Unit	--	1	1	R-410A	10.7 lbs	260	20 A	16.2 A	208/3/60	WCS	GC	Norlake	NASD150RL3	FURNISHED WITH WALK-IN COOLER
CU-2	Ice Maker - Remote Condenser	--	0	1	R-404A	4.0 lbs	100			120/1/60	TES	KES	Hoshizaki	URC-14F	FURNISHED WITH ICE MAKER

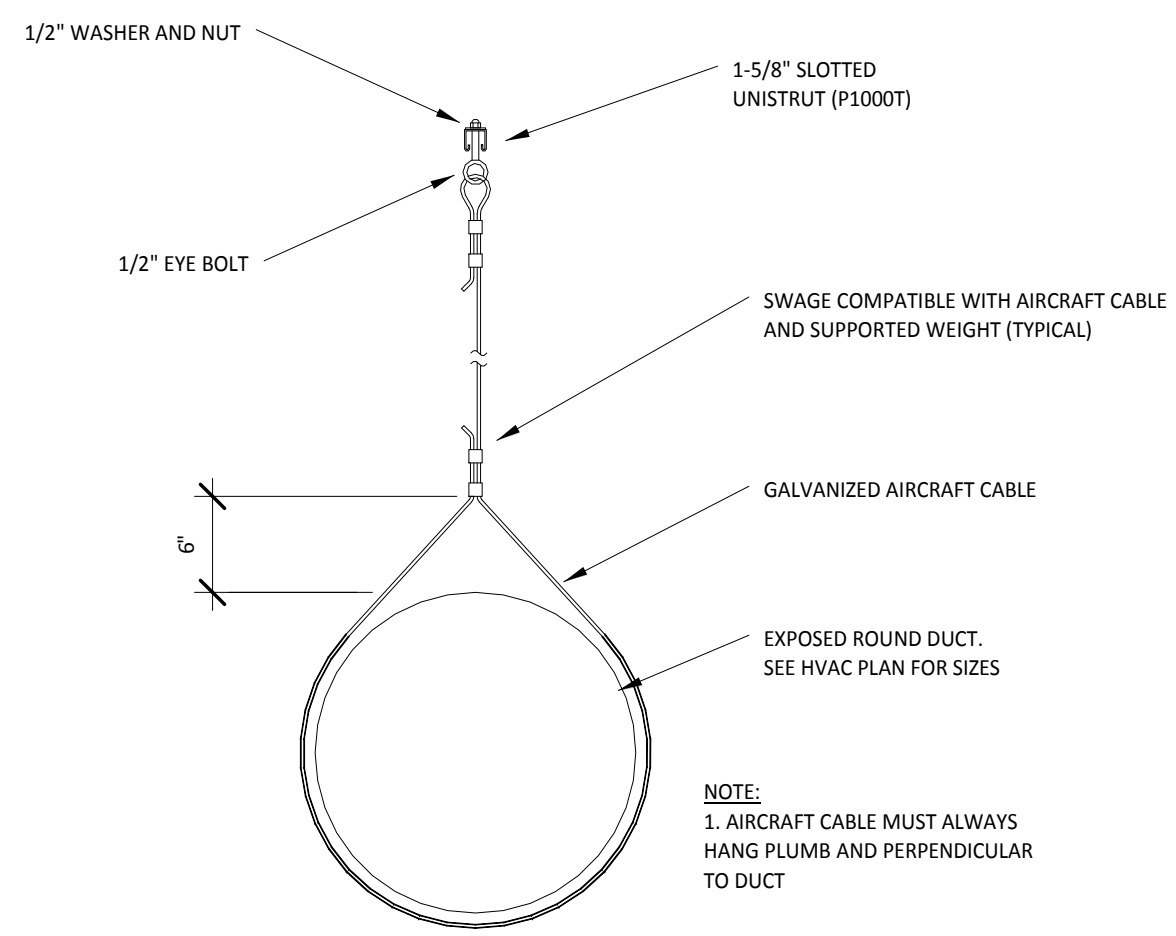
**KITCHEN HOOD SCHEDULE**

Tag	Description	Max Cooking Temp.	Exhaust Plenum										Perforated Supply Plenums						No. of Light Fixtures	Approximate Weight [lbs]	Furnished By	Installed By	Basis for Design		Remarks		
			Airflow [CFM]	SP [in. w.c.]	Duct Collars			Filter Face Vel.	Length	Width	SP [in. w.c.]	Supply Plenum Length	Supply Plenum Width	MAU Plenum			AC Plenum						Manufacturer	Model			
					No.	Width	Length							Airflow [CFM]	Duct Collars		Airflow [CFM]	Duct Collars									
															No.	Width		Length								No.	Diameter
HD-1	Type I Canopy Hood with Perforated MAU and AC Supply Plenums	450°F	2925	0.77	2	10"	14"	--	13' - 0"	4' - 3"	0.1	14' - 0"	22"	1775	4	10"	16"	600	7	8"	9	950	THS	GC	Captive-Aire	5424 ND-2-ACPS-P	MAT'L: 18 GA. TYPE 430 SS. PROVIDE WITH (1) 16"X16" AND (7) 20" X 16" HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR & PREWIRE PACKAGE. HOOD IS DESIGNED TO COMPLY WITH FBC MECHANICAL 507.2.1.1

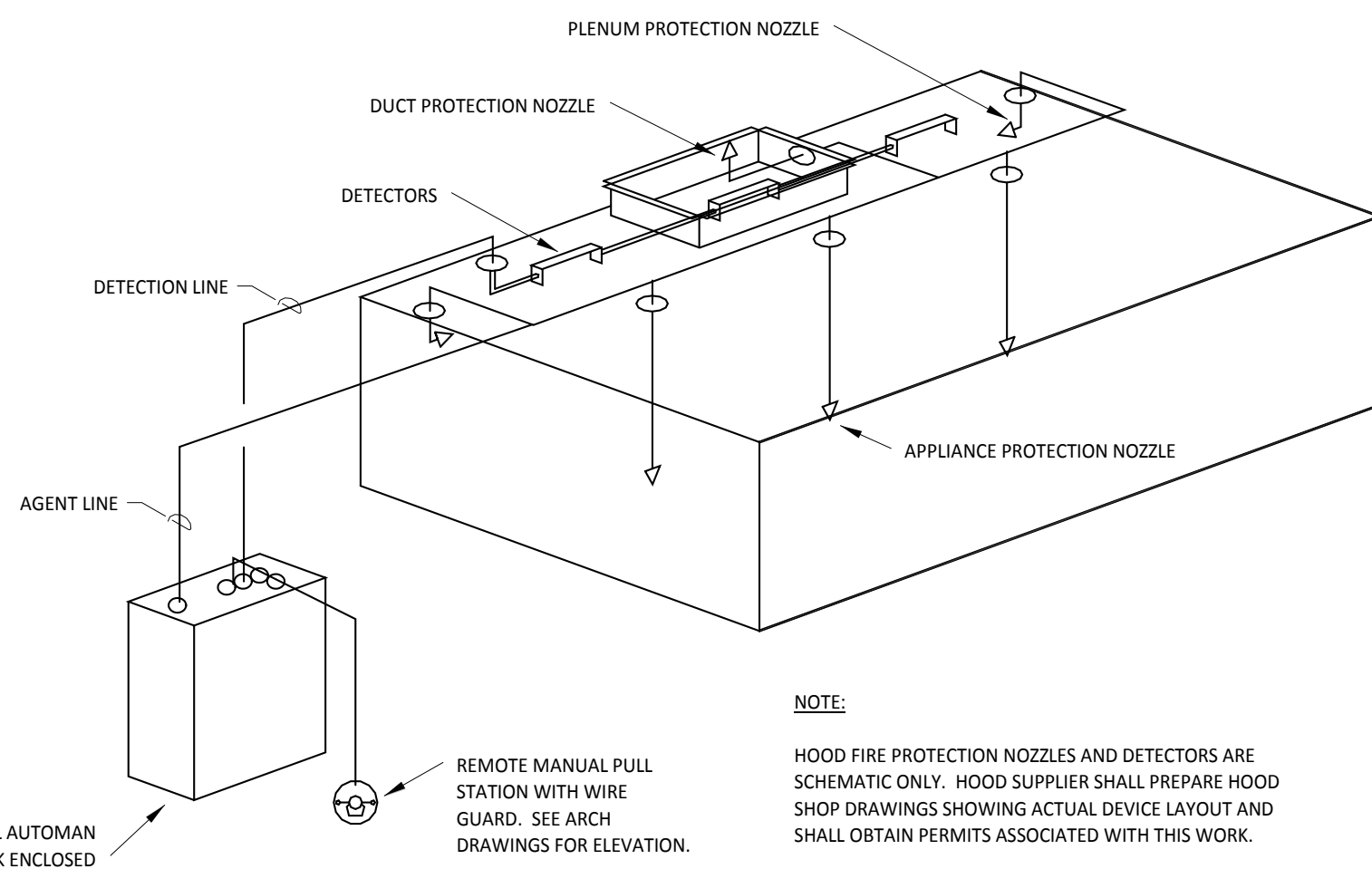
**ROOFTOP UNIT SCHEDULE**

Tag	Description	Nominal Capacity [Tons]	EER	Airflow			Cooling Capacity					Heating Capacity					Electrical			Furnished By	Installed By	Basis for Design		Remarks			
				Total [CFM]	OA [CFM]	ESP [in. w.c.]	Total [MBH]	Sensible [MBH]	EAT [Deg. F]	Cond. EAT [Deg. F]	Input [MBH]	Output [MBH]	EAT [Deg. F]	Number of Compressors	Number of Circuits	Refrigerant Type	Refrigerant Charge	Approximate Weight [LBS]	MOCP			FLA	V/P/H		Manufacturer	Model	
RTU-1	Kitchen Rooftop Unit	6	12.6	2200	500	1.0	70	42	80	70	96	80	64	65	1	1	R-410A	14.3 LBS	1300	50 A	32.3 A	208/3/60	HES	GC	Trane	YHC072	FURNISHED FOR PROPANE OPERATION WITH COMPARATIVE ENTHALPY ECONOMIZER W/ BAROMETRIC RELIEF, HINGED PANELS, MERV 8 FILTERS, HAIL GUARD, CIRCUIT BREAKER, UNPOWERED CONVENIENCE RECEPTACLE, SUPPLY AIR SMOKE DETECTOR, LIGHTSTAT WITH REMOTE SENSOR, AND ROOF CURB
RTU-2	Dining Rooftop Unit	8-1/2	13	3000	1000	1.0	96	60	81	70	96	120	96	62	2	2	R-410A	25 LBS	1300	50 A	42.0 A	208/3/60	HES	GC	Trane	YHC102	FURNISHED FOR PROPANE OPERATION WITH COMPARATIVE ENTHALPY ECONOMIZER W/ BAROMETRIC RELIEF, HINGED PANELS, MERV 8 FILTERS, HAIL GUARD, CIRCUIT BREAKER, UNPOWERED CONVENIENCE RECEPTACLE, SUPPLY AIR SMOKE DETECTOR, LIGHTSTAT WITH REMOTE SENSOR, AND ROOF CURB. FURNISH WITH BAYSSENS 119AA SITH REMOTE COMBINATION TEMPERATURE/HUMIDITY SENSOR.

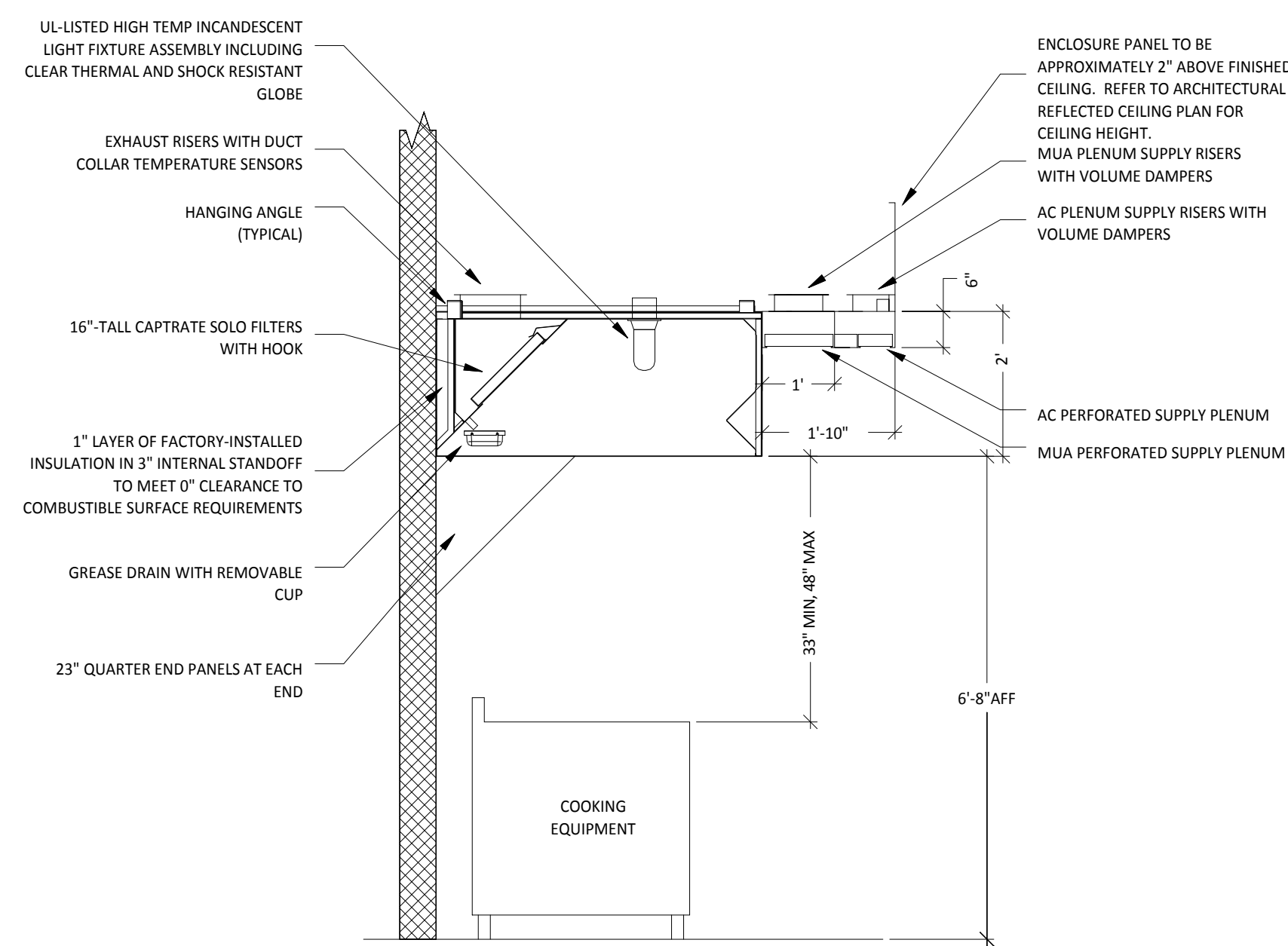




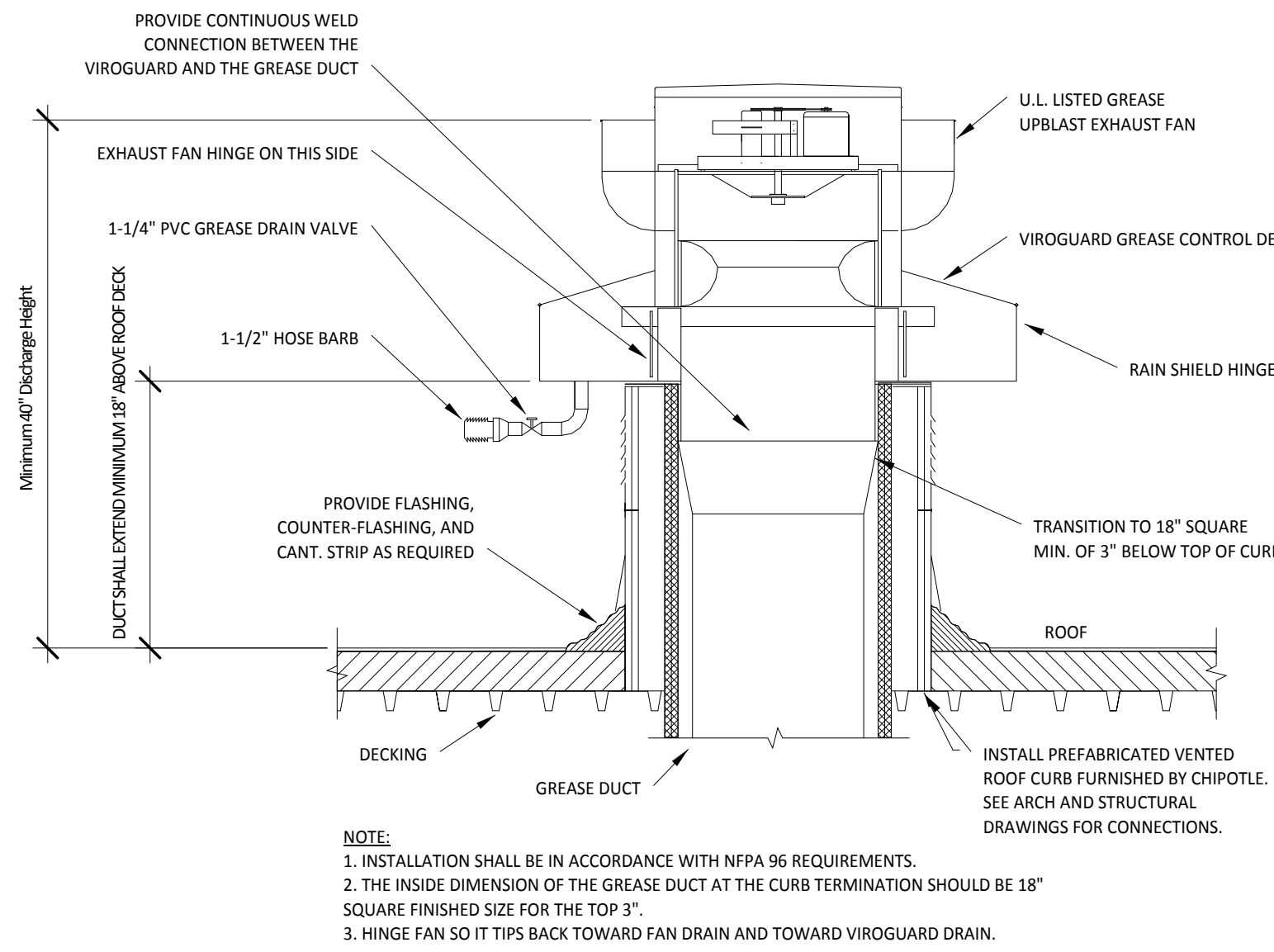
7 M300 EXPOSED DUCT SUPPORT  
N.T.S.



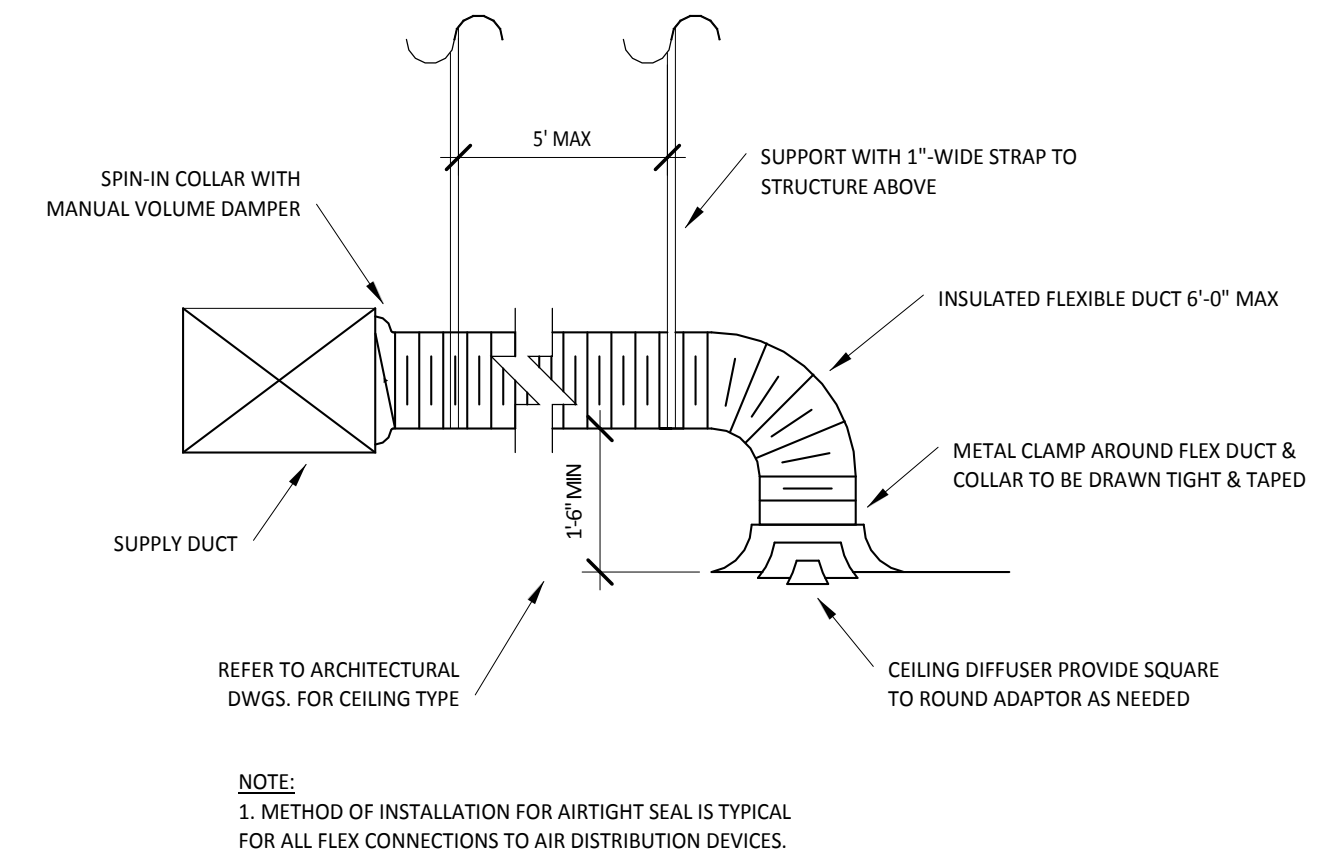
5 M300 FIRE SUPPRESSION SYSTEM SCHEMATIC  
N.T.S.



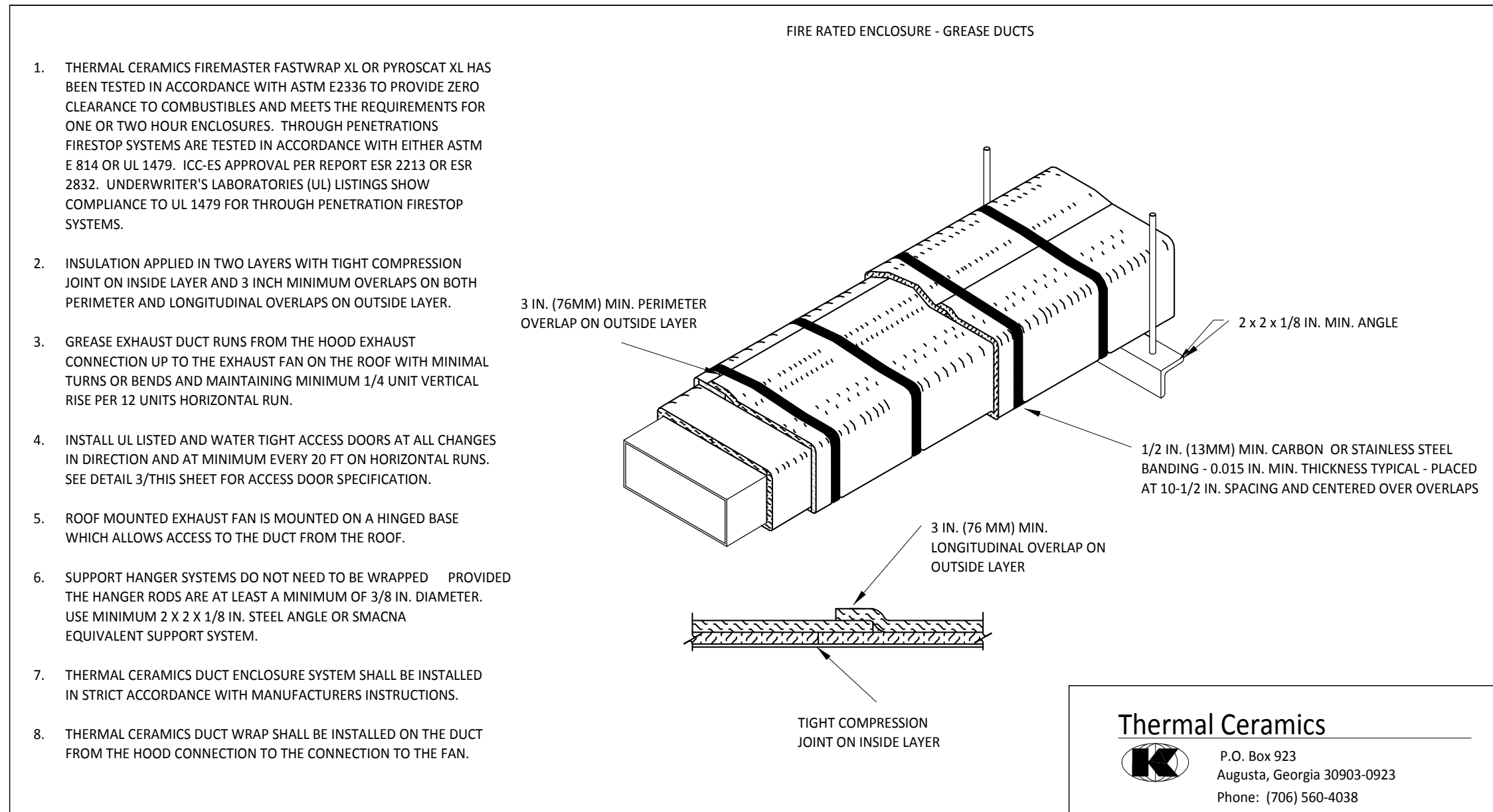
4 M300 HOOD SECTION VIEW  
N.T.S.



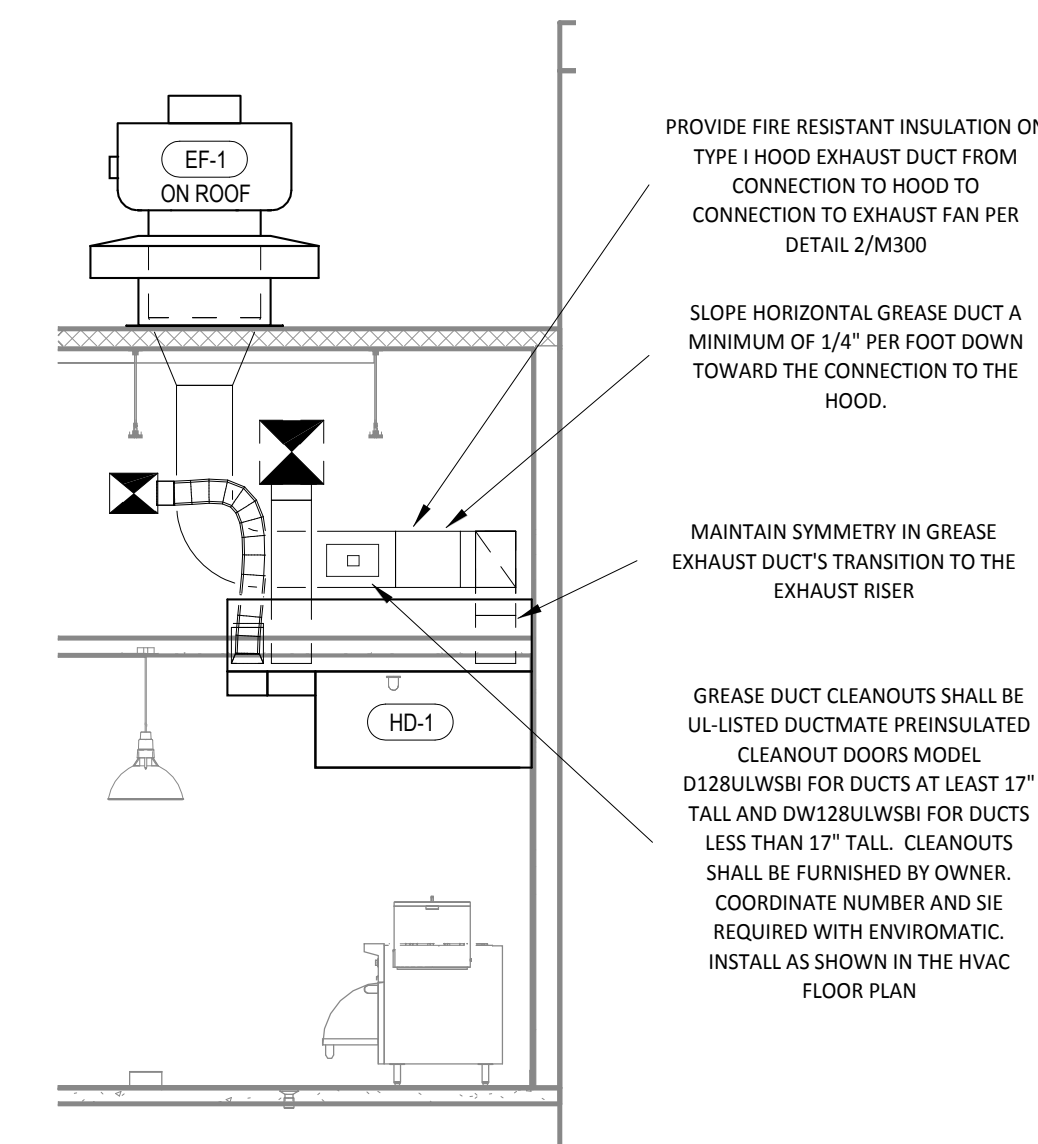
6 M300 GREASE EXHAUST FAN  
N.T.S.



1 M300 DIFFUSER CONNECTION  
N.T.S.



2 M300 FIREMASTER DUCT WRAP - UL HNKT-G18  
N.T.S.



3 M300 DUCT SECTION AT HOOD  
1/4" = 1'-0"





# PLAN NOTES

- 1 CONNECT TO THE EXISTING 1-1/2" DOMESTIC WATER SERVICE WITH UPSTREAM METER AND REDUCED PRESSURE BACKFLOW PREVENTER. GC TO VERIFY LOCATION.
- 2 PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 102.5 RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
- 3 PROVIDE WATER HEATER DWH-1 PER DETAIL 1/P300.
- 4 PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 11/P300. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
- 5 PROVIDE 1/2" FILTERED WATER TO THE ICE MAKER AT 56" AFF.
- 6 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
- 7 CONNECT TO THE EXISTING 1" PROPANE GAS LINE.
- 8 PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 2/P300.
- 9 SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/P300. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
- 10 PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.
- 11 PAINT INTERIOR AND EXTERIOR EXPOSED GAS PIPING WITH ZINC CHROMATE PRIMER AND ONE FINAL COAT OF EXTERIOR ENAMEL. FINAL COLOR SHALL MATCH SURROUNDING FINISHES.
- 12 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
- 13 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
- 14 PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 10/P300.
- 15 CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 4/THIS SHEET.
- 16 PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS USC-9, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK. FASTEN MIXING VALVE TO WALL AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
- 17 PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
- 18 PROVIDE WATER HAMMER ARRESTOR ON WATER SUPPLY PIPE TO WATER CLOSET.
- 19 CONCEAL RESTROOM DOMESTIC WATER PIPES IN THE DEMISING WALL.
- 20 PROVIDE DOMESTIC WATER PIPES ABOVE THE RESTROOMS BELOW THE TOP OF THE PLYWOOD BOX ELEMENT UNLESS NOTED OTHERWISE.
- 21 PROVIDE AN ACCESSIBLE MAIN DOMESTIC WATER SHUTOFF VALVE ABOVE LAY-IN CEILING AS SHOWN. VALVE SHALL BE 12" ABOVE THE TOP OF THE LAY-IN CEILING. PERMANENTLY INSTALL THE "WATER SHUTOFF" SIGN TO THE CEILING GRID BELOW THE VALVE.
- 22 PROVIDE CIRCUIT-SETTER BALANCE VALVE WITH STRAINER IN PIPE TO FLUSH VALVES UPSTREAM FROM ET-2. ADJUST THIS VALVE SO THAT THE EXPANSION TANK REFILLS IN 30-45 SECONDS FOLLOWING A SINGLE FULL WATER CLOSET FLUSH.
- 23 PROVIDE WATER SOFTENER AS SHOWN IN DETAIL 5/THIS SHEET.
- 24 PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 9/P300.

PLUMBING GENERAL NOTES

- A GENERAL NOTES APPLY TO PLUMBING SHEETS.
- B PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING CODE, LOCAL HEALTH DEPARTMENT STANDARDS, AND THE AUTHORITY HAVING JURISDICTION. SEE SHEET ADD FOR THE PREVAILING CODES.
- C PIPING LAYOUTS ON DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
- D CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.
- E PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FIXTURE.
- F PROVIDE STOP VALVES AT FIXTURES.
- G PROVIDE TRAP PRIMERS FOR FLOOR DRAINS.
- H WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DIAGRAMS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.
- I PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
- J INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE SPECIFICATIONS AND DETAIL 6/P300.
- K PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
- L PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE.
- M PRIOR TO TURNOVER PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLS, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
- N THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- O PRIOR TO CONNECTION TO ANY EXISTING SEWER SYSTEM PERFORM A DIE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.
- P ALL GAS FIRED EQUIPMENT WILL OPERATE ON PROPANE. PROVIDE NECESSARY FITTINGS FOR PROPANE USAGE.

ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR  
 AFG ABOVE FINISHED GRADE  
 CD CEILING DIFFUSER  
 EXT'G EXISTING  
 FCO FLOOR CLEANOUT  
 FD FLOOR DRAIN  
 FS FLOOR SINK  
 GCO GRADE CLEANOUT
- GC GENERAL CONTRACTOR  
 HES TENANT'S HVAC EQUIPMENT SUPPLIER  
 TAB TENANT'S TEST AND BALANCE VENDOR  
 TCC TENANT'S CASLING CONTRACTOR  
 TES TENANT'S KITCHEN EQUIPMENT SUPPLIER  
 THS TENANT'S HOOD SUPPLIER  
 TLS TENANT'S LIGHT/LAMP SUPPLIER  
 TMB TENANT'S MENU BOARD SUPPLIER  
 TMS TENANT'S MILLWORK SUPPLIER  
 TP TENANT'S PHONE SUPPLIER  
 TRS TENANT'S RAILING SUPPLIER  
 TSV TENANT'S SIGN VENDOR  
 WCS TENANT'S WALK-IN COOLER SUPPLIER

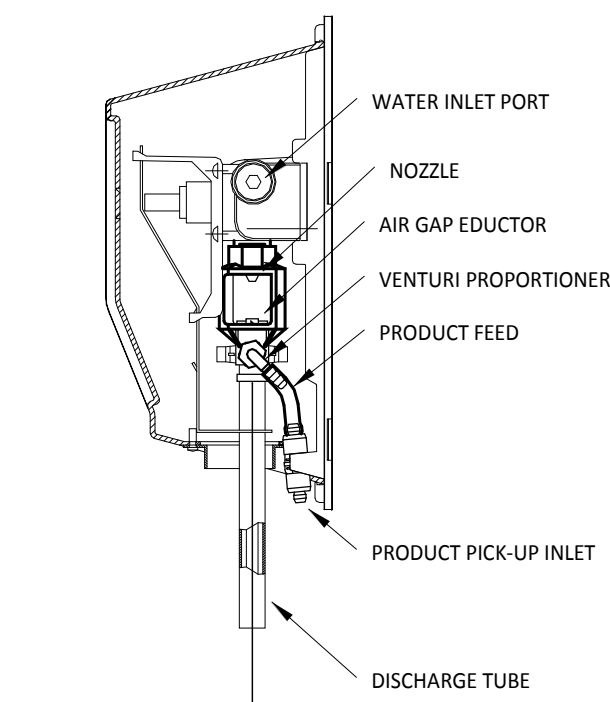
SOFTENER INSTALLATION NOTES

- A. DETAIL IS BASED ON CUNO MODEL CFSM1254E.
- B. CONNECT SOFT WATER FEED TO WATER HEATER PRIOR TO RECIRCULATION SYSTEM CHECK VALVE.
- C. SEE WATER HEATER DETAIL FOR CONTINUATION.

SOFTENER DETAIL NOTES

1. RESIN TANK.
2. BRINE TANK.
3. 1" BALL VALVE.
4. 1" DOMESTIC COLD WATER. (74" AFF)
5. 1" SOFT WATER FEED TO WATER HEATER. (74" AFF)
6. 3/4" SCH 80 PVC.
7. PLUG UNIT INTO GFCI PROTECTED OUTLET.
8. DUNNAGE RACK.

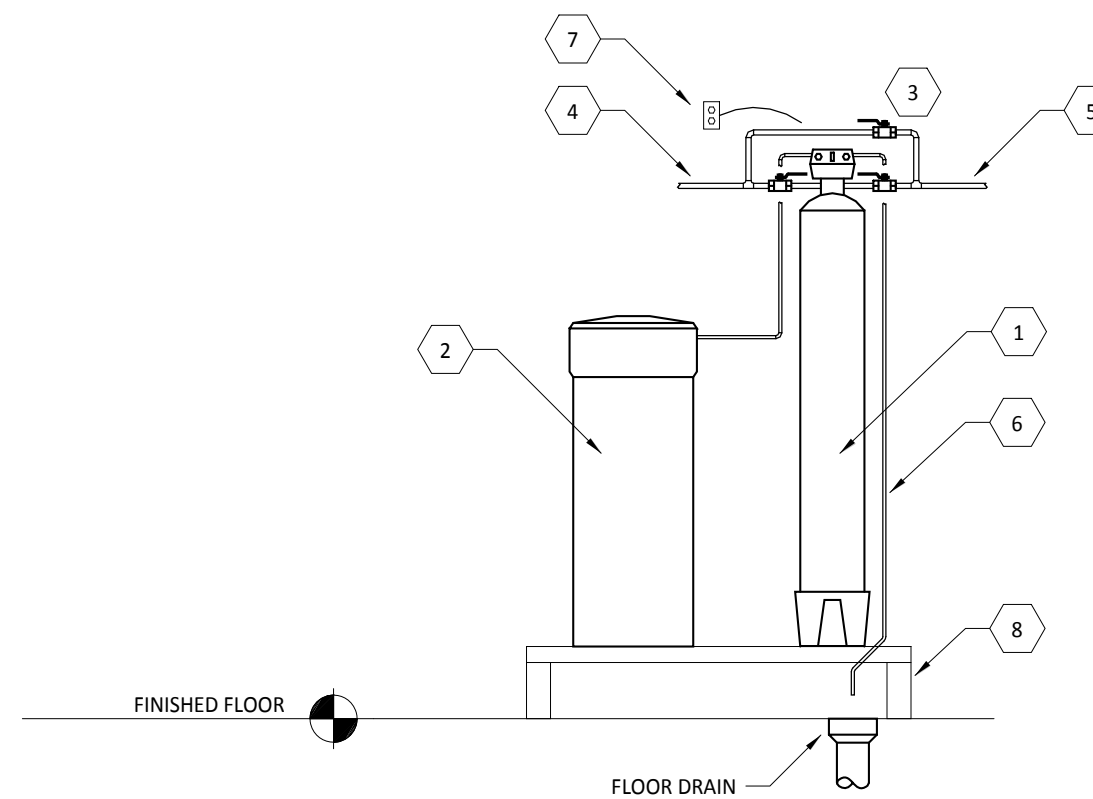
5 WATER SOFTENER DETAIL  
 P100 N.T.S.



4 CHEMICAL DISPENSER DETAIL  
 P100 N.T.S.

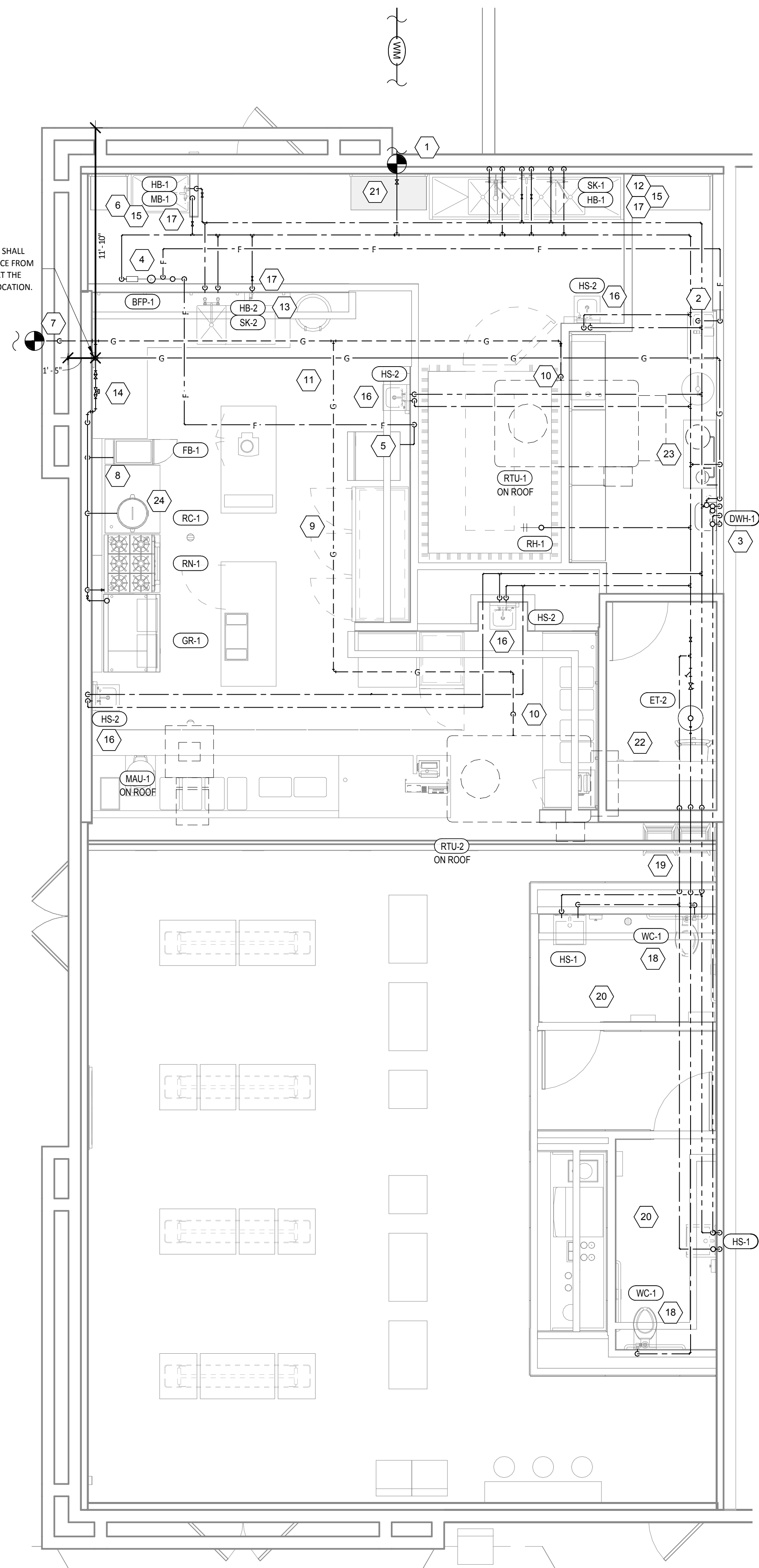
PLUMBING SYMBOLS

- ELBOW UP  
 ELBOW DOWN  
 DOMESTIC COLD WATER  
 DOMESTIC FILTERED COLD WATER  
 DOMESTIC SOFTENED COLD WATER  
 DOMESTIC HOT WATER (110 DEGREES)  
 DOMESTIC HOT WATER RECIRC.  
 GAS  
 GAS (ON ROOF)
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- WATER METER
- GAS METER
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P200 FOR EQUIPMENT INFORMATION
- VALVE
- SOLENOID OPERATED VALVE
- WALL HYDRANT/ROOF HYDRANT
- CHECK VALVE
- CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER



FINISHED FLOOR

MATERIAL SCHEDULE		
CATEGORY	APPLICATION	ALLOWABLE MATERIAL
WATER SUPPLY PIPE	ABOVE GRADE	TYPE L COPPER TUBE
PROPANE GAS PIPE	CONCEALED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS
	EXPOSED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS, PAINTED



GAS SERVICE SHALL ENTER THE SPACE FROM THE ROOF AT THE FOLLOWING LOCATION.

1 PLUMBING SUPPLY PLAN  
 P100 1/4" = 1'-0"



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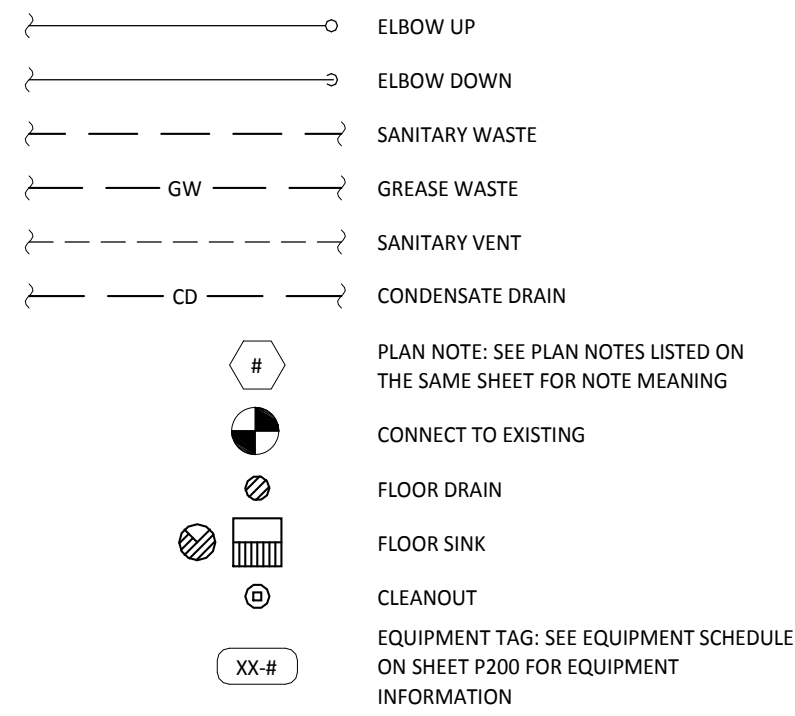
Project No. 1401051

Contents:  
 Plumbing Plan Water & Gas

P100

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**PLUMBING SYMBOLS**

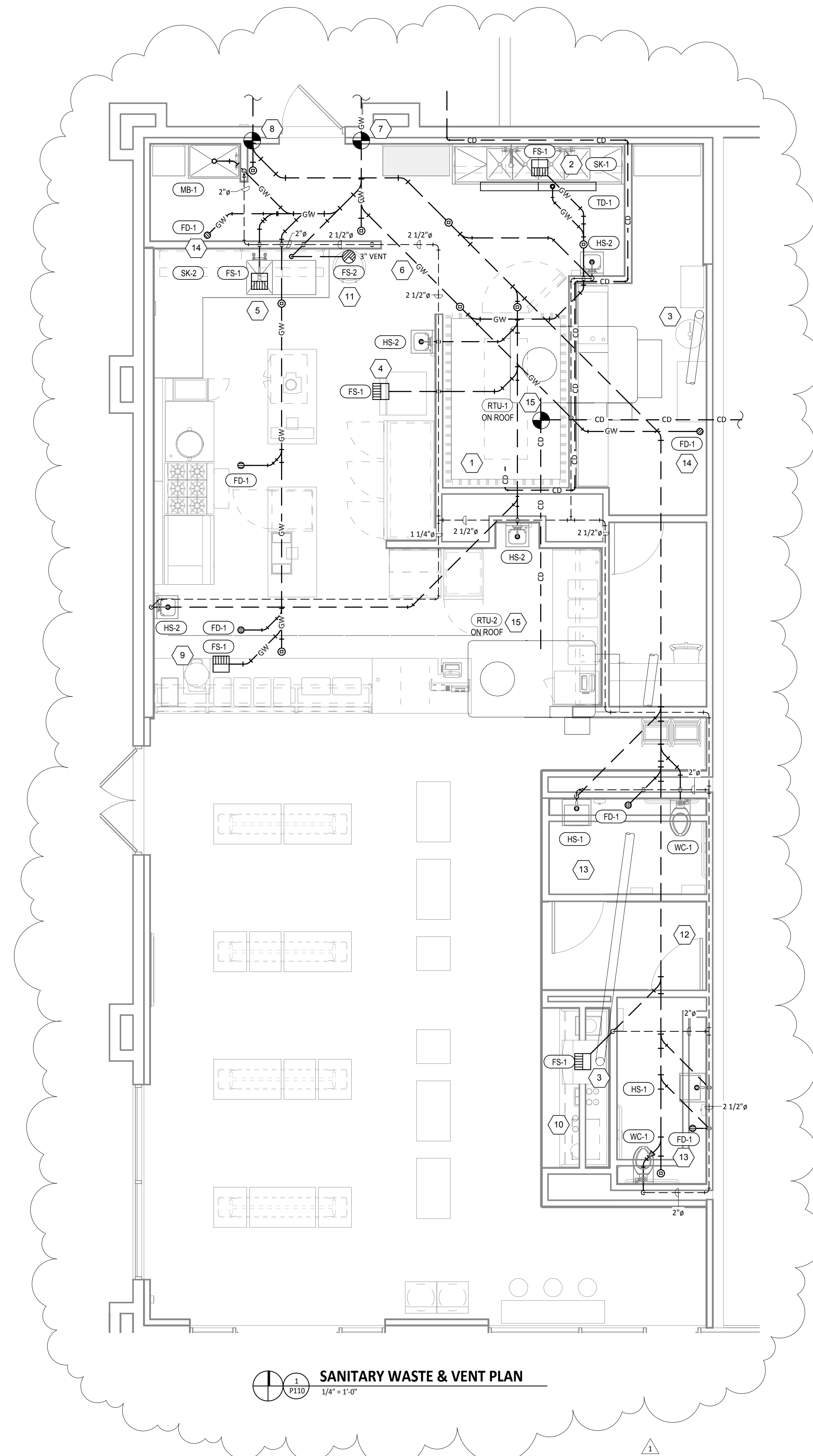


**MATERIAL SCHEDULE**

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
SANITARY WASTE & VENT PIPE	ABOVE GROUND, CONCEALED	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND PREP SINK AND WARE WASHING SINK DRAINS	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
	BELOW GROUND	PVC PLASTIC DWV PIPE AND FITTINGS

**PLAN NOTES**

- PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO RAIN WATER LEADER AT THE REAR OF THE SPACE AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP.
- PROVIDE DRAIN CONNECTIONS TO THE FOUR COMPARTMENT SINK PER DETAIL 4/P300.
- PROVIDE A 6" SCHEDULE 40 PVC CONDUIT SODA LINE SLEEVE UNDER THE SLAB FROM THE BAG-IN-BOX RACK TO THE SODA FOUNTAIN PER DETAIL 7/P300. SEE THE ARCHITECTURAL FLOOR PLAN FOR THE LOCATIONS OF THESE STUBS.
- PROVIDE DRAINAGE PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
- PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
- PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 8/P300. CONNECT TO EXISTING VENT IF POSSIBLE.
- CONNECT TO EXISTING 4" GREASE WASTE LINE LEADING TO EXISTING 1250 GALLON INTERCEPTOR.
- CONNECT TO EXISTING 4" SANITARY SEWER.
- PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
- PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
- PROVIDE EXPOSED INDIRECT DRAIN FROM THE SALAD SPINNER DRAIN CONNECTION TO THE FLOOR SINK BELOW. DRAIN THROUGH AN AIR GAP.
- HOLD HORIZONTAL VENT PIPES ABOVE THE RESTROOM BELOW THE TOP OF THE PLYWOOD BOX ELEMENT. PAINT EXPOSED VERTICAL VENT PIPES TO MATCH THE ROOF DECK.
- DO NOT PROVIDE WALL CLEANOUTS OFF-TILE AND PLYWOOD SURFACES. IF A WALL CLEANOUT IS REQUIRED IN A TILE SURFACE COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.
- PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 12/P300.
- PROVIDE 3/4" PVC CONDENSATE DRAIN LINE FROM ROOFTOP UNIT TO EXISTING CONDENSATE DRAIN LINE ON ROOF AS SHOWN. DRAIN LINE SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT AND BE SUPPORTED ON ROOF PER DETAIL 5/P300.



**SANITARY WASTE & VENT PLAN**  
1/4" = 1'-0"



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10.16.2014	FOR BIDDING
1-30-15	

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Contents:  
 Plumbing Plan Waste & Vent

**P110**

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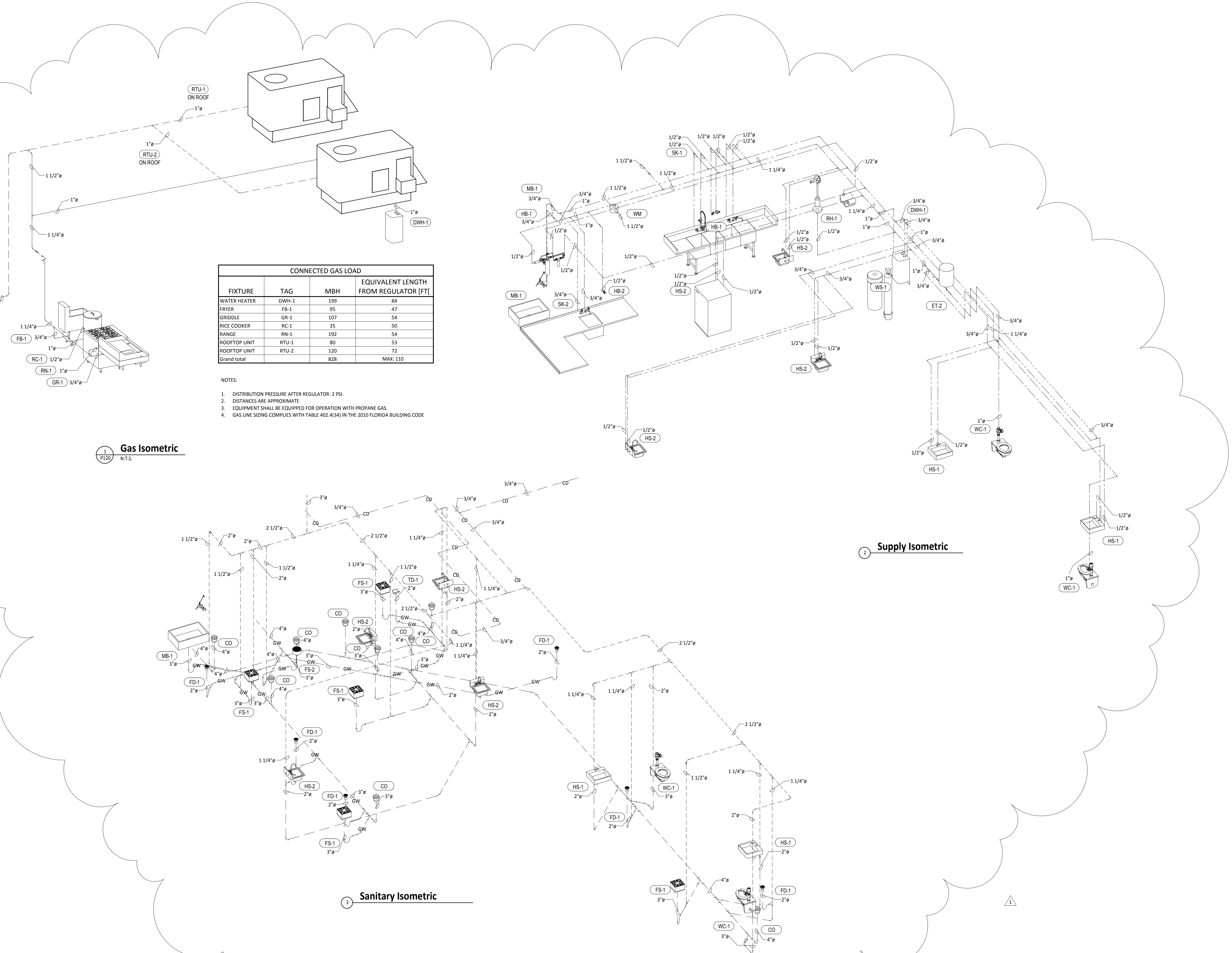
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Project No:  
1401051

Contents:  
Plumbing Isometrics

P120

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CONNECTED GAS LOAD			
FIXTURE	TAG	MBH	EQUIVALENT LENGTH FROM REGULATOR [FT]
WATER HEATER	DWH-1	199	84
FRYER	FB-1	95	47
GRIDDLE	GR-1	107	54
RICE COOKER	RC-1	35	50
RANGE	RN-1	192	54
ROOFTOP UNIT	RTU-1	80	53
ROOFTOP UNIT	RTU-2	120	72
Grand total		828	MAX: 110

- NOTES:
1. DISTRIBUTION PRESSURE AFTER REGULATOR: 2 PSI.
  2. DISTANCES ARE APPROXIMATE
  3. EQUIPMENT SHALL BE EQUIPPED FOR OPERATION WITH PROPANE GAS.
  4. GAS LINE SIZING COMPLIES WITH TABLE 402.4(34) IN THE 2010 FLORIDA BUILDING CODE

1 Gas Isometric  
P120 N.T.S.

2 Supply Isometric

3 Sanitary Isometric





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1 12-17-14 Permit Review Comments

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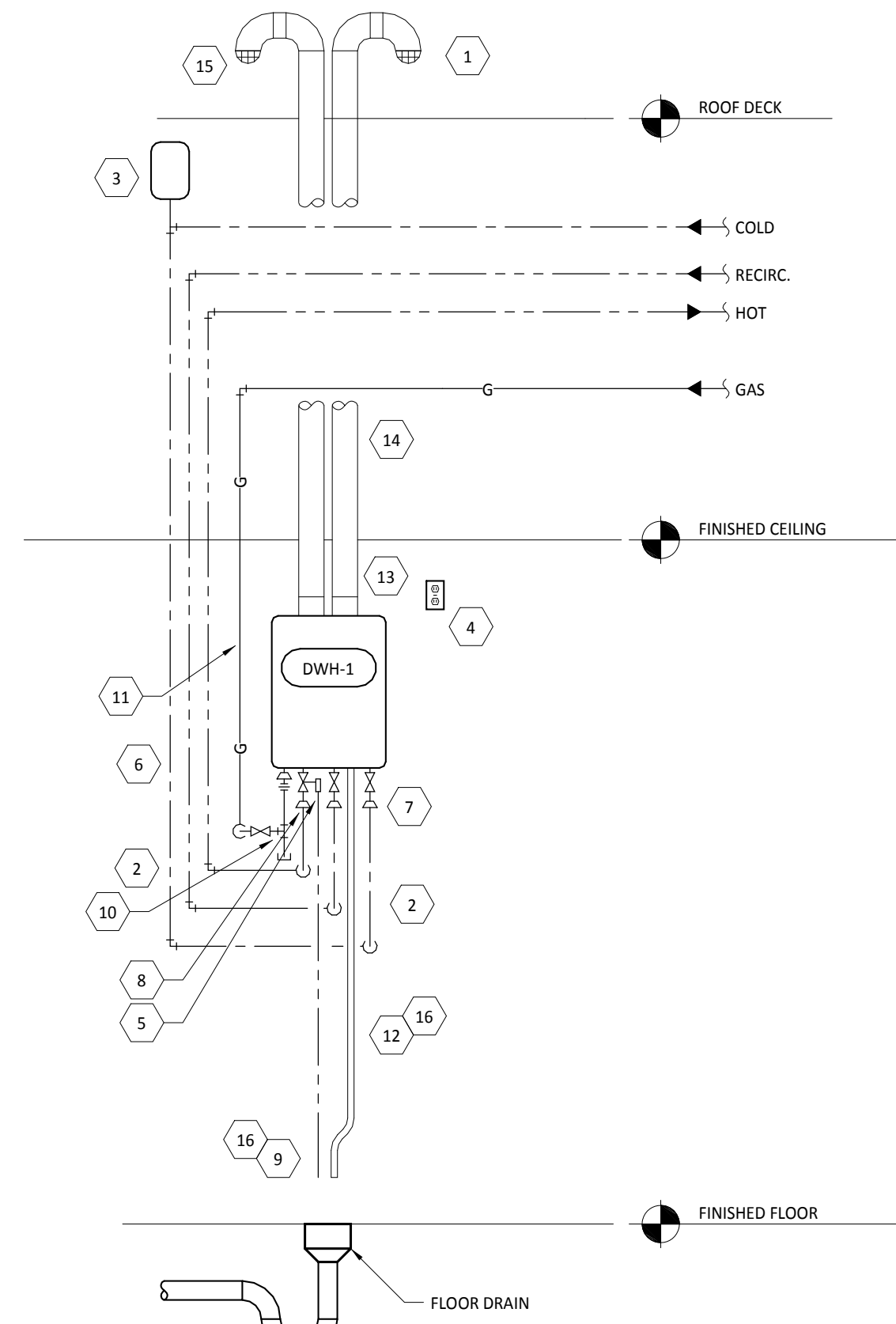
Plumbing Schedule

P200

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1-30-15

PLUMBING FIXTURE SCHEDULE															
TAG	FIXTURE	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	DESCRIPTION	QUANTITY	CONNECTION SIZES			SUBTOTAL FIXTURE UNITS				
								HW	CW	WASTE	HW	CW	Total	SAN	
BFP-1	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-203-T2F	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1		1/2"			0	1	0	0
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1		3/4"			0	0	0	0
ET-2	EXPANSION TANK	GC	GC	AMTROL	WX-200	14.0 GALLON PRE-CHARGED EXPANSION TANK WITH 4.1 GALLON ACCEPTANCE FROM 60 TO 40 PSI.	1		3/4"			0	0	0	0
FD-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN, ROUND POLISHED METAL RING AND STRAINER	6			2"		0	0	0	12
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	5			3"		0	0	0	25
FS-2	FLOOR SINK	GC	GC	SIOUX CHIEF	860-3P_3	HIGH CAPACITY PVC FLOOR DRAIN WITH PVC OPEN-QUARTER STRAINER AND ALUMINUM DOME BOTTOM STRAINER	1			3"		0	0	0	5
HB-1	HOSE BIBB	YES	GC	T&S	B-2345-01-XX	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE.	2	1/2"	1/2"			3	3	4	0
HB-2	HOSE BIBB	YES	GC	T&S	B-0730	SILL FAUCET WITH 1/2" NPT FEMALE INLET AND 3/4" GARDEN HOSE THREADED OUTLET.	1		1/2"			0	1.5	1.5	0
HS-1	RESTROOM HAND SINK	GC/YES	GC	KOHLER	K-2084	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. INSTALL PLUG-IN AUTOMATIC FAUCET WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING VALVE FURNISHED BY KES. PROVIDE ZURN 21231 (21231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL.	2	1/2"	1/2"	1 3/4"		3	3	4	2
HS-2	KITCHEN HAND SINK	YES	GC	FURNISHED BY YES	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPLASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	4	1/2"	1/2"	2"		6	6	8	4
MB-1	MOP BASIN	GC/YES	GC	CREATIVE INDUSTRIES TERRAZZO PRODUCTS	MC3624-10	PROVIDE TERRAZZO 36"x24"x10" HIGH MOP BASIN (COLOR: ICE) WITH STAINLESS STEEL CAPS. CONTACT TERE GRENATO OR CAROLYN DEVIVO WITH CREATIVE INDUSTRIES TERRAZZO PRODUCTS AT (773) 235-9088 TO ORDER. INSTALL SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, AND WALL BRACE FURNISHED BY YES.	1	1/2"	1/2"	3"		2.25	2.25	3	3
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER HOEPTNER PRODUCTS (408) 847-7615	1		3/4"			0	1	0	0
SK-1	FOUR COMPARTMENT SINK	YES	GC	FURNISHED BY YES	--	FOUR-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET AND (1) MIXING FAUCET WITH 12" SWING NOZZLE	1	1/2"	1/2"			1.5	1.5	2	0
SK-2	PREP SINK	YES	GC	FURNISHED BY YES	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1					3	3	4	0
TD-1	TRENCH DRAIN	GC	GC	ZURN	(2)2883	(2) 6" X 40" HDPE TRENCH DRAINS (80" OVERALL LENGTH) WITH (2) CLOSED END CAPS, (1) 2" NO-HUB BOTTOM OUTLET, AND CLASS-A HEEL-PROOF POLYETHYLENE GRATE	1			2"		0	0	0	2
WC-1	WATER CLOSET	GC	GC	AMERICAN STANDARD	WC: 2257.001, SEAT: 5901.100	ADA-COMPLIANT APWALL ELONGATED WALL-MOUNT 1.28 GPF FLUSH VALVE TOILET. INSTALL WITH SEAT HEIGHT SET AT 17" AFF. PROVIDE WITH SLOAN ECOS 8111-1.6/1.1 BATTERY-POWERED AUTOMATIC DUAL-FLUSH FLUSH VALVE AND ZURN ZN1203-N4 (ZURN ZN1203-N4 FOR BACK-TO-BACK APPLICATIONS) SERIES WATER CLOSET CARRIER.	2		1"	3"		0	10	10	12
WS-1	WATER SOFTENER	GC	GC	CUNO	CFSM1245E	POINT OF ENTRY HIGH CAPACITY WATER TREATMENT SYSTEM	1		1"			0	0	0	0
<b>Grand total</b>												18.75	32.25	36.4	65

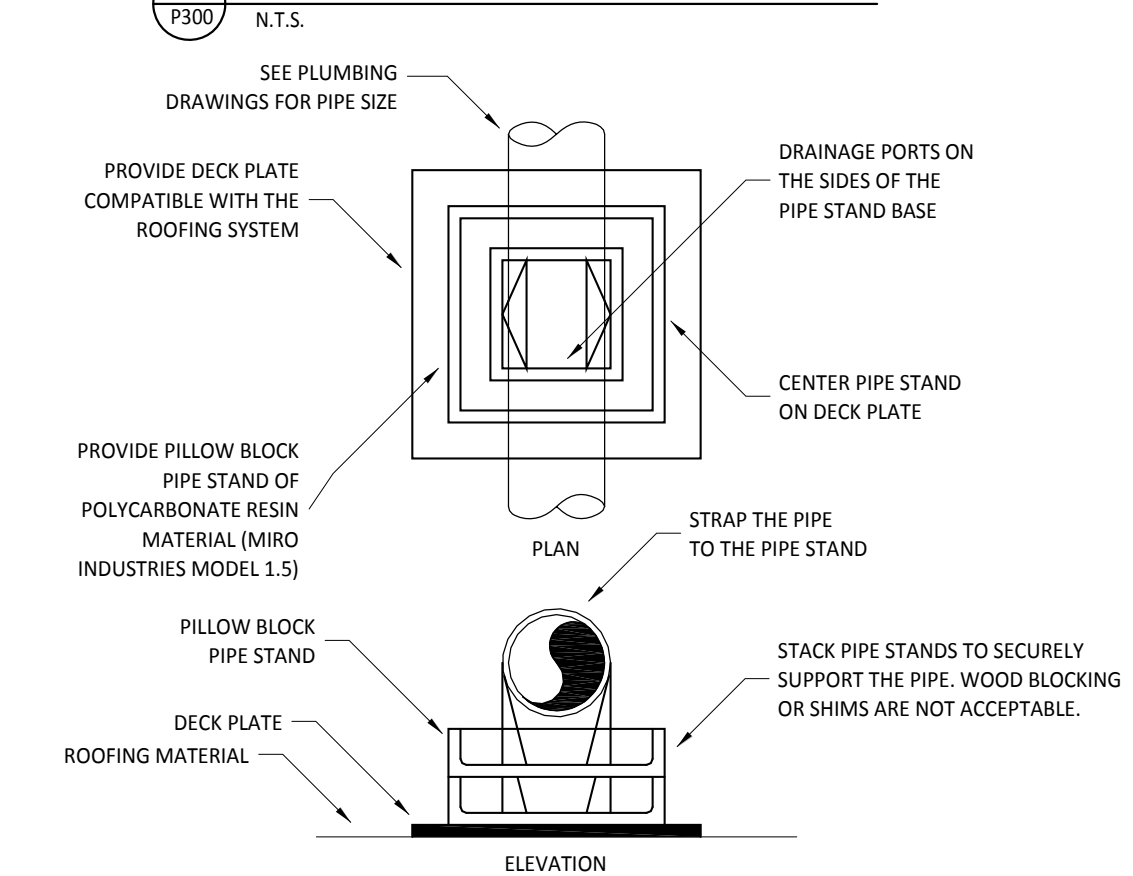
WATER HEATER SCHEDULE - INSTANTANEOUS								
MARK	DESCRIPTION	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	INPUT MBH	DELIVERY	NOTES
DWH-1	DIRECT VENT GAS-FIRED INSTANTANEOUS WATER HEATER	GC	GC	NAVIENT	NPE-240A	199	354 GPH @ 65" RISE	PROVIDE WITH REMOTE CONTROLLER AND LEAD FREE "PLUMB EASY VALVE SET". WATER HEATER IS TO BE PROPANE-FIRED.



**WATER HEATER INSTALLATION NOTES**

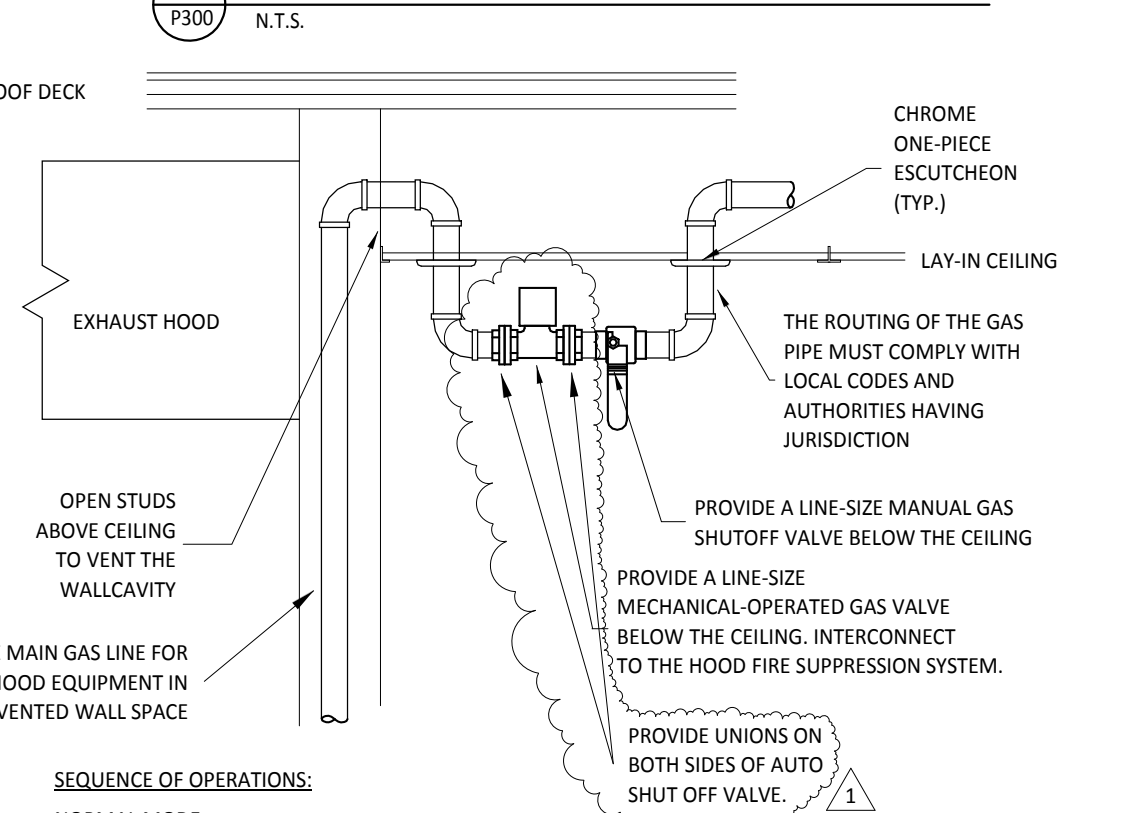
- A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE OWNER.
- B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
- C. MAINTAIN REQUIRED CLEARANCES TO COMBUSTIBLE MATERIALS.
- D. SEE ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT.
- E. ADJUST WATER HEATER TO A SETPOINT OF 120° F.

**WATER HEATER DETAIL**



PROVIDE PIPE STANDS AS SHOWN FOR STEEL PIPE FROM 1/2" TO 1-1/2" DIAMETER. SUPPORT SPACING FOR PIPE SIZE: 1/2"-40, 3/4" 1"-80, 1 1/4" AND LARGER=10'. PROVIDE DECK PLATES ON ROOFING AND SET PIPE STAND FREE ON DECK PLATES. STACK PIPE STAND WHERE REQUIRED TO ELLEVATE PIPING. INSTALL GAS PIPE TO ALLOW FOR EXPANSION AND CONTRACTION. PRIMER COAT AND PAINT EXTERIOR GAS PIPE. GAS PIPE ON THE ROOF SHALL BE PAINTED YELLOW AND GAS PIPE INSTALLED EXPOSED ON EXTERIOR WALLS SHOULD BE PAINTED TO MATCH THE WALL FINISH.

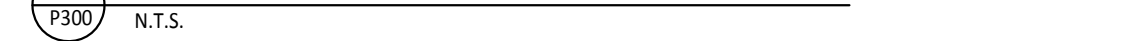
**ROOFTOP PIPING SUPPORT**



**SEQUENCE OF OPERATIONS:**

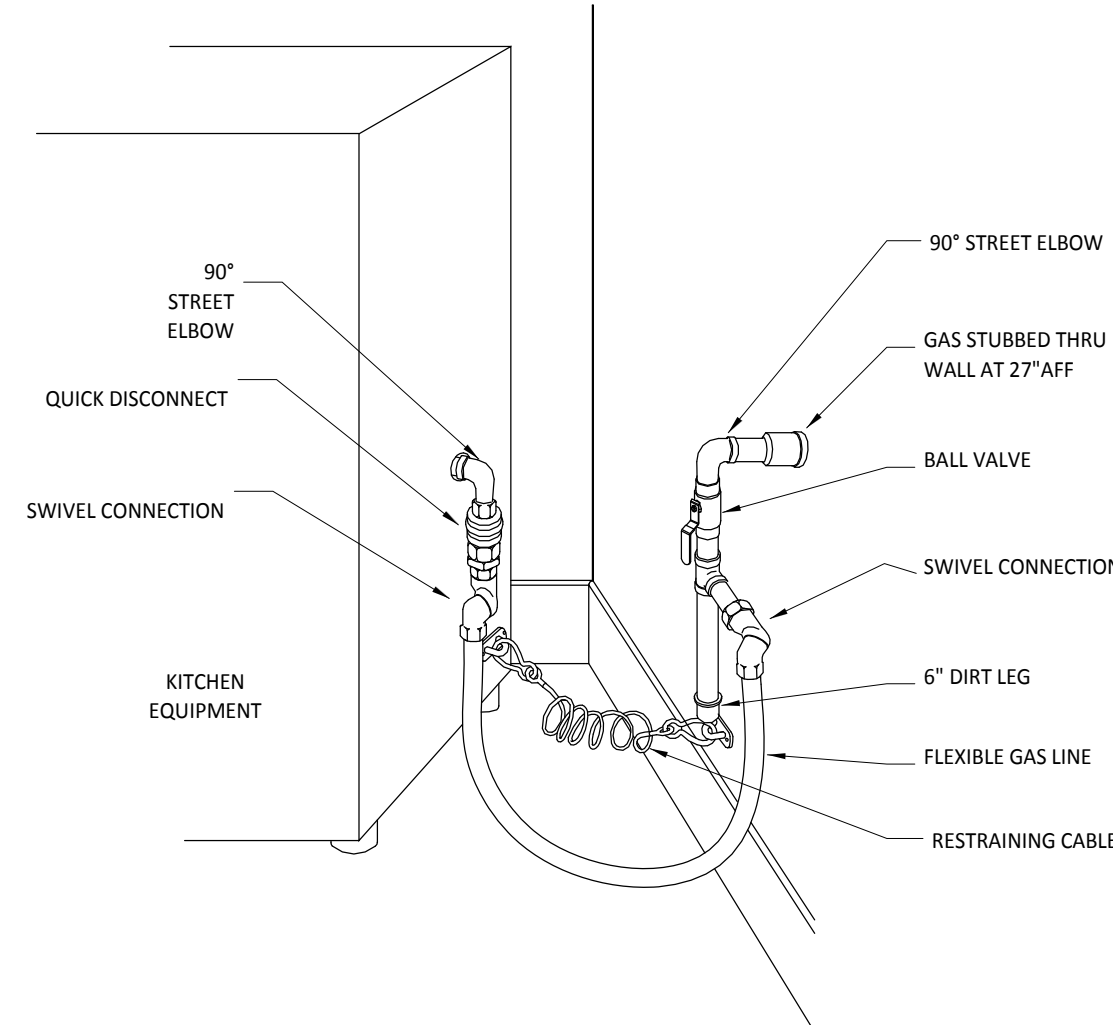
- NORMAL MODE:**
- WHEN HOOD FAN IS ENERGIZED SOLENOID VALVE IS TO OPEN.
  - ON A LOSS OF POWER OR IF THE FAN IS DE-ENERGIZED THE VALVE IS TO CLOSE.
- EMERGENCY MODE:**
- UPON ACTUATION OF THE FIRE SUPPRESSION SYSTEM OR A SIGNAL FROM THE FIRE ALARM, THE SOLENOID VALVE IS TO CLOSE

**KITCHEN GAS SHUTOFF DETAIL**



**WATER HEATER DETAIL NOTES**

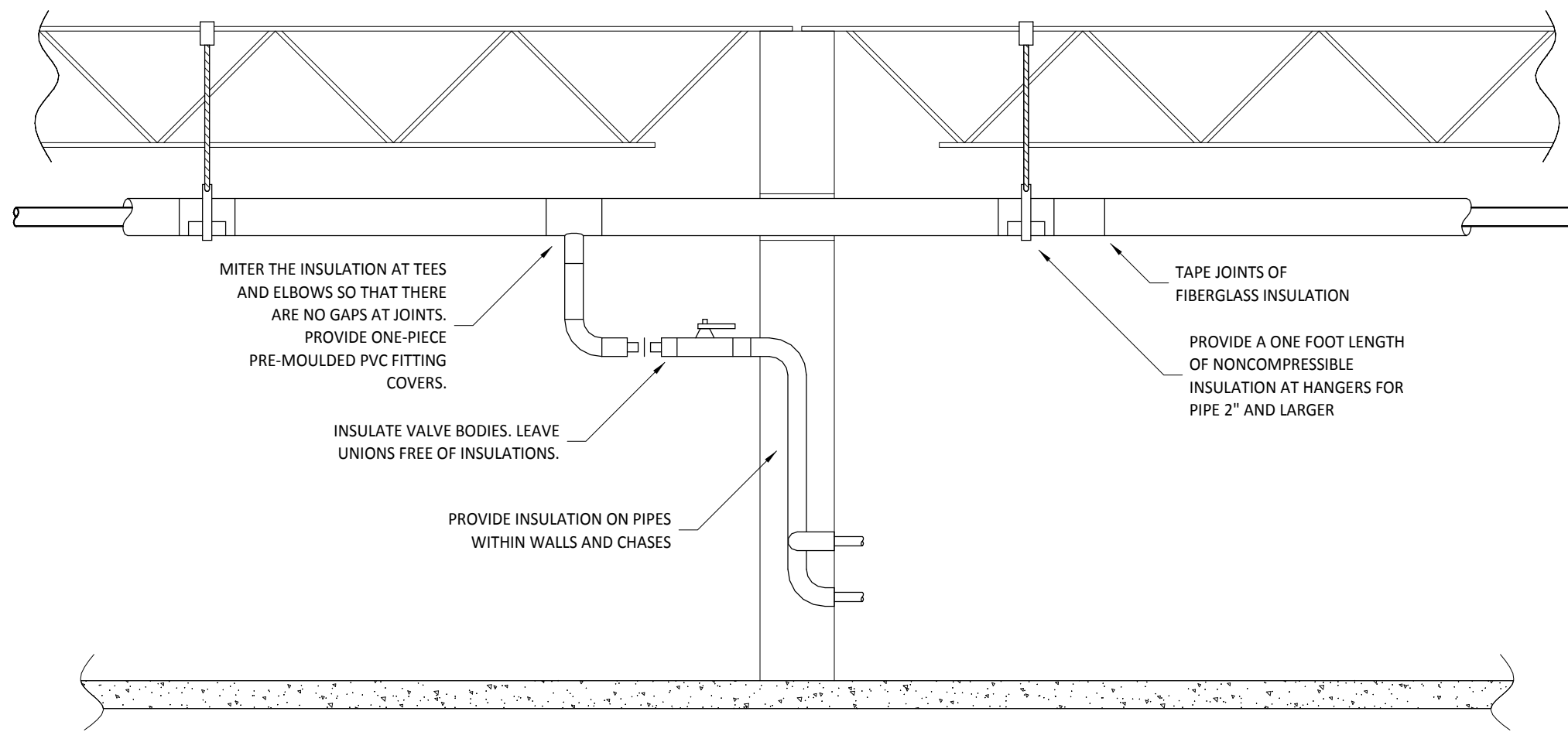
1. PROVIDE TWO 90° ELBOWS AND A SCREEN FOR THE FLUE TERMINATION THROUGH ROOF.
2. ROUGH IN COLD, HOT, AND RECIRC WATER PIPES AT 64" AND PROPANE GAS PIPE AT 67-1/2" BELOW THE FINISHED CEILING.
3. PROVIDE EXPANSION TANK ET-1 AS SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
4. PROVIDE WATER HEATER RECEPTACLE WITHIN 12" OF THE FINISHED CEILING. FASTEN CORD TIGHT TO THE WALL.
5. PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO FLOOR DRAIN OR MOP BASIN. CONCEAL WATER PIPING WITHIN THE WALL AS SHOWN. INSULATE EXPOSED AND CONCEALED WATER PIPING TO WITHIN 3" OF THE WATER HEATER.
7. INSTALL "PLUMB EASY VALVE SET" EXPOSED AT THE COLD AND HOT WATER CONNECTIONS TO THE WATER HEATER AS SHOWN.
8. IF THE PIPE SIZES AS SHOWN ON THE PLUMBING PLANS IS LARGER THAN THE WATER HEATER CONNECTION SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER.
9. PIPE PRESSURE RELIEF VALVE DISCHARGE AND FLUE CONDENSATE DRAIN TO THE FLOOR DRAIN OR MOP BASIN. DRAIN THROUGH AN AIR GAP.
10. PROVIDE AN EXPOSED DRIP LEG AND LINE SIZE GAS VALVE ON THE PROPANE GAS SERVICE TO THE WATER HEATER.
11. CONCEAL PROPANE GAS PIPING IN THE WALL AS SHOWN.
12. PROVIDE 1/2" CLEAR PLASTIC TUBE FROM THE FLUE CONDENSATE CONNECTION TO THE FLOOR DRAIN OR MOP BASIN. FASTEN THE TUBE SECURELY TO THE WALL.
13. INSTALL THE TANKLESS WATER HEATER WITH THE TOP OF THE WATER HEATER WITHIN 12" OF THE FINISHED CEILING.
14. PROVIDE A 3"Ø PVC PIPE FROM THE TANKLESS WATER HEATER TO THE POINT OF DISCHARGE. SLOPE HORIZONTAL SECTION OF THE FLUE 1/4" PER FOOT TOWARDS THE DRAIN TEE.
15. PROVIDE A SCREENED AIR INTAKE WITH TWO 90° ELBOWS ABOVE THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
16. CONCEAL DRAIN LINES IN WALL PER DETAIL 13/THIS SHEET.
17. PROVIDE APPROPRIATE EQUIPMENT/FITTINGS FOR PROPANE USAGE.



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION.

**KITCHEN GAS EQUIPMENT DETAIL**

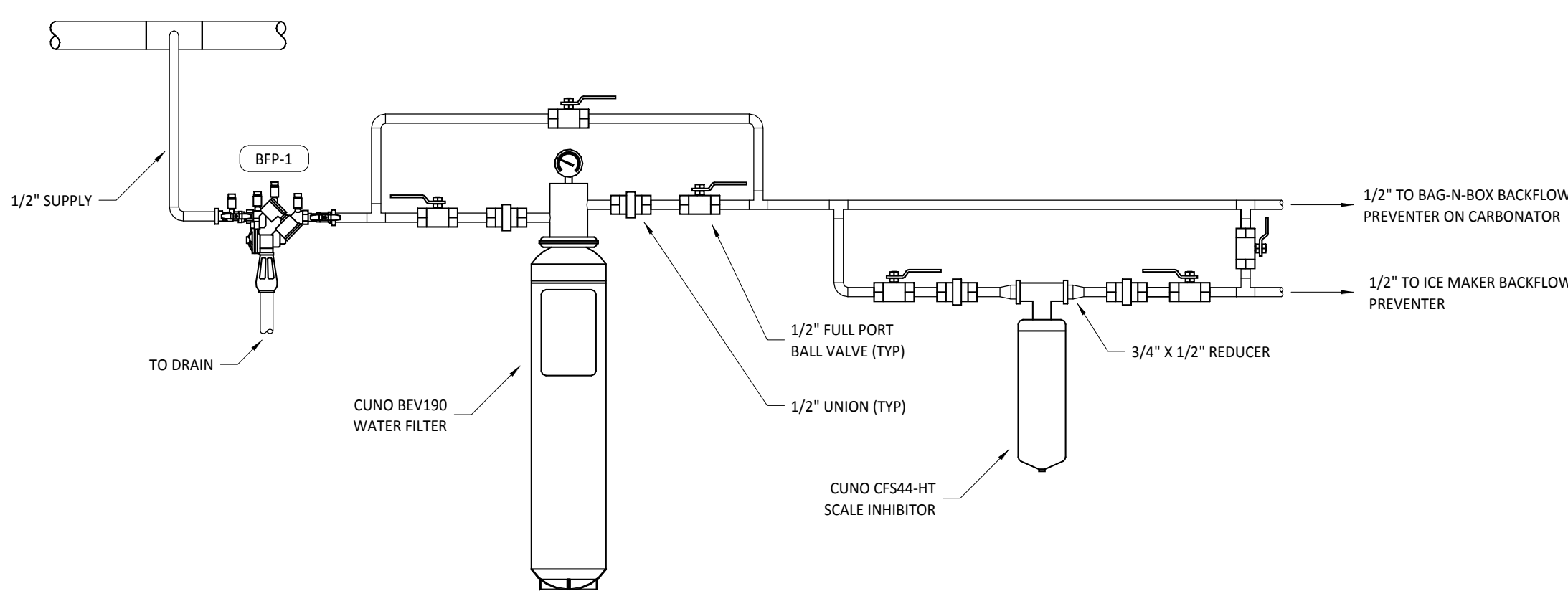
2 P300 N.T.S.



PROVIDE INSULATION ON INTERIOR COLD AND HOT WATER PIPING, CONDENSATE DRAIN PIPE, AND STORM PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS OF SEALANT AND TAPE. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. PROVIDE PREFORMED GLASS FIBER PIPE INSULATION WITH PRE-MOLDED PVC JACKETS, SLEEVES, AND FITTING COVERS ON EXPOSED WATER PIPE SO THAT EXPOSED WATER PIPE IS COVERED ENTIRELY WITH PVC INSULATION COVERS.

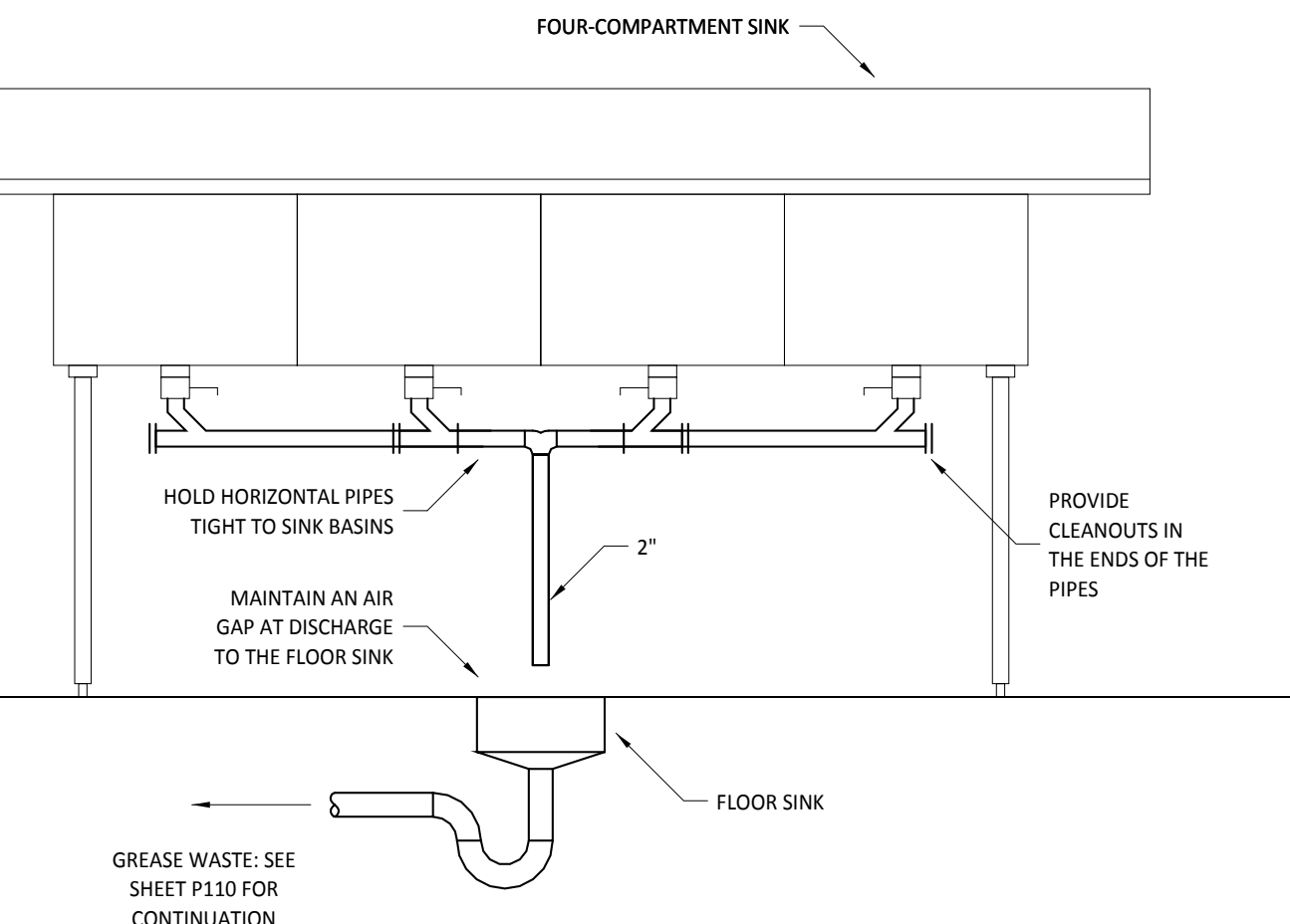
**PIPE INSULATION DETAIL**

5 P300 N.T.S.



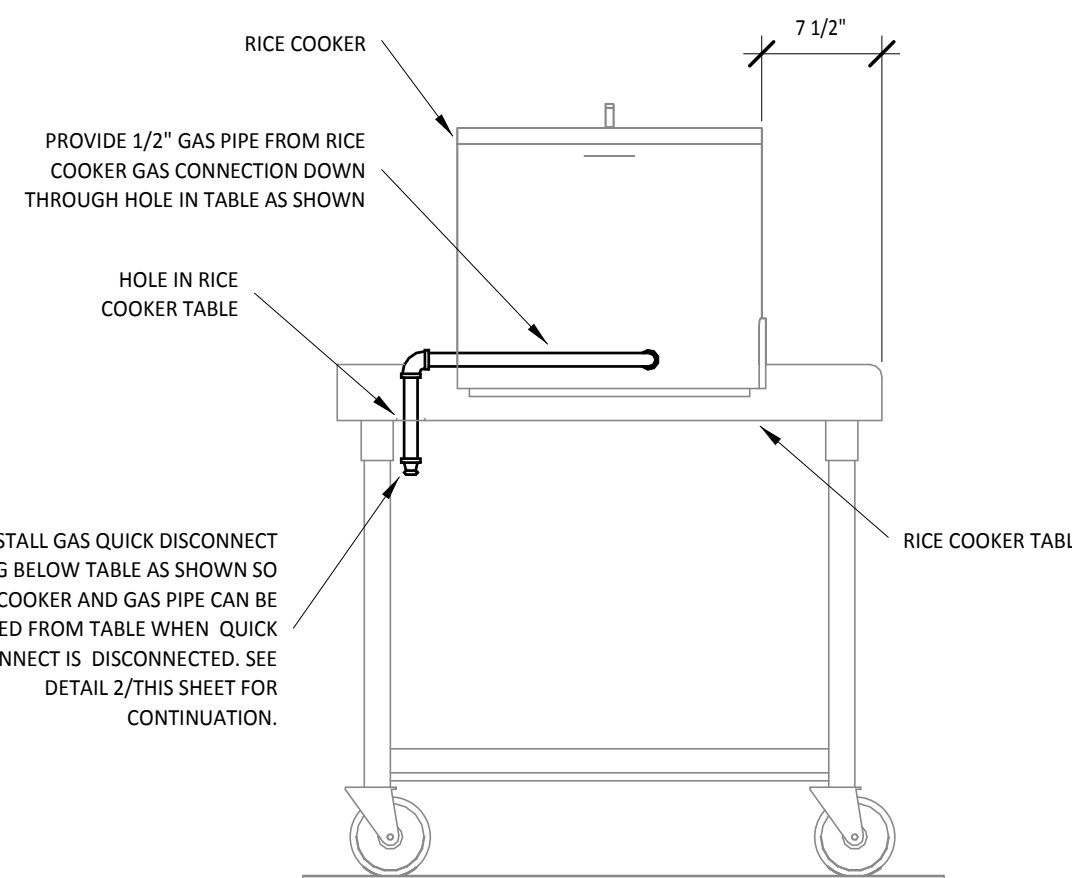
**WATER FILTRATION DETAIL**

11 P300 N.T.S.



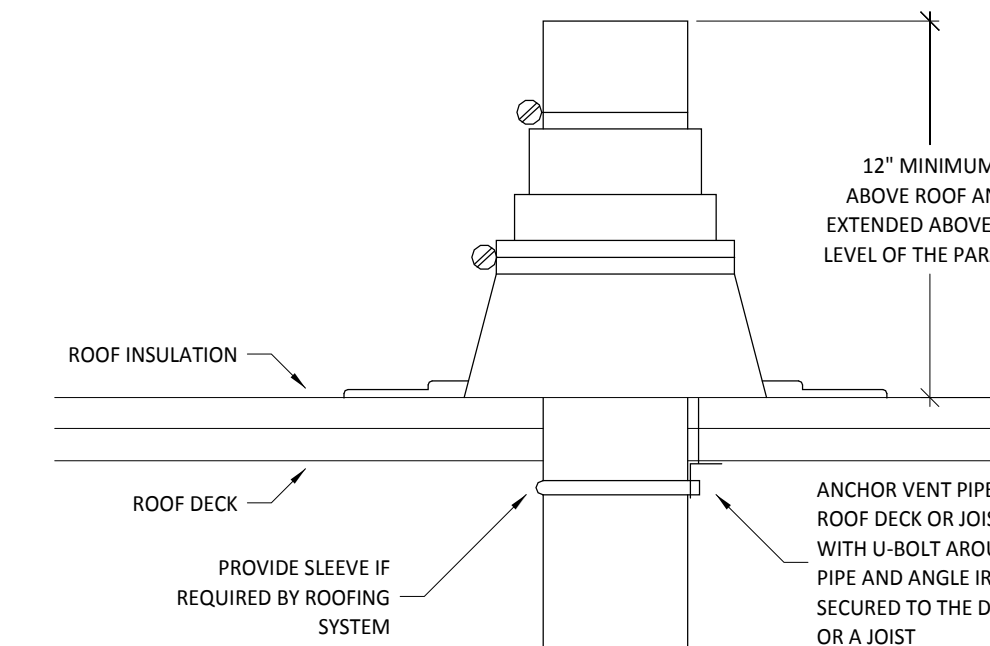
**WARE-WASHING SINK DETAIL**

4 P300 N.T.S.



**RICE COOKER GAS CONNECTION DETAIL**

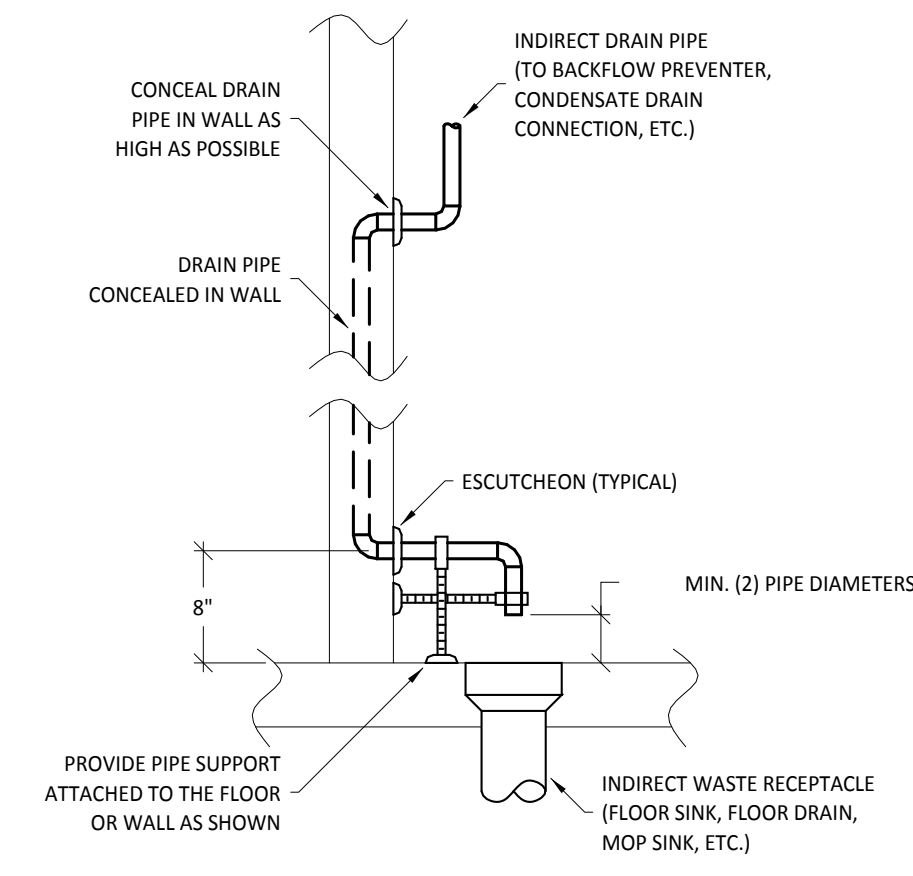
9 P300 N.T.S.



**VENT THROUGH ROOF**

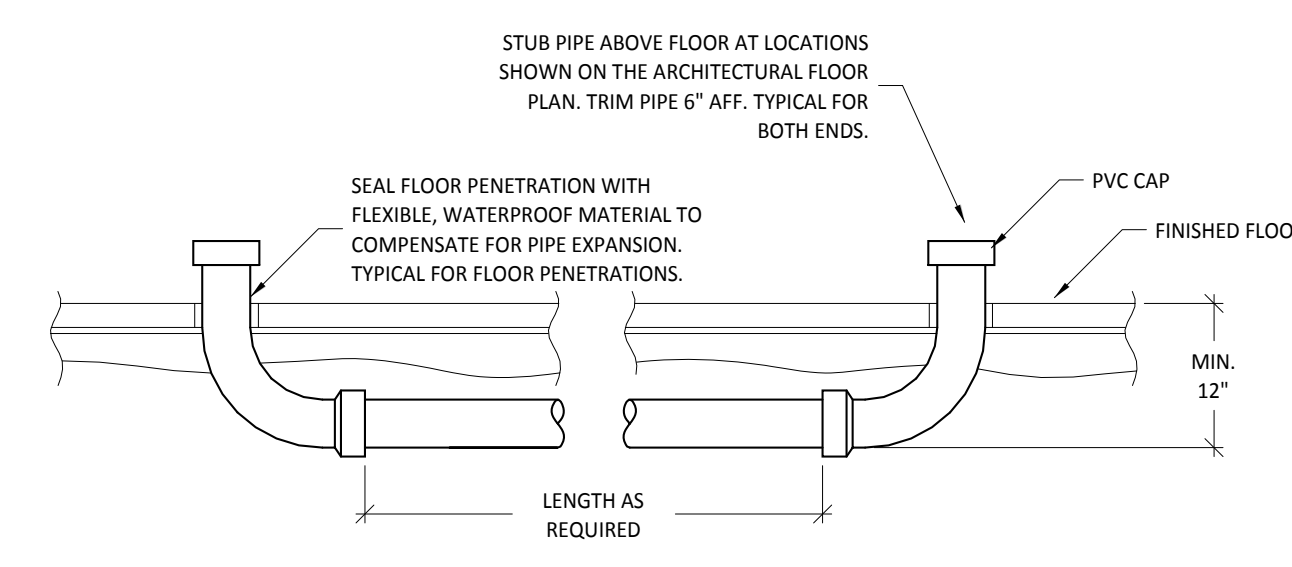
8 P300 N.T.S.

REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. FLASHING AND COUNTER FLASHING ARE TO BE COMPATIBLE WITH THE ROOFING SYSTEM.



**INDIRECT WASTE PIPING DETAIL**

12 P300 N.T.S.



**SODA CONDUIT DETAIL**

7 P300 N.T.S.

PROVIDE SIX INCH SCHEDULE 40 PVC ELECTRICAL CONDUIT AND FITTINGS WITH SOLVENT-WELDED JOINTS. USE MINIMUM QUANTITY OF FITTINGS. PROVIDE LONG SWEEP ELBOWS AT BOTH ENDS, WITH MINIMUM 16 INCH RADIUS. AVOID ELBOWS IN HORIZONTAL RUN. SEAL ENDS OF CONDUIT WITH FOAM AFTER SYRUP LINE IS INSTALLED IN CONDUIT. INSTALL PVC CAP WITH HOLE FOR SODA LINES ON EACH END OF THE CONDUIT. SEAL HOLE IN PVC CAP AROUND SODA BUNDLE.



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Issue Record:	Permit & Landlord Review
10-16-2014	FOR BIDDING
1-30-15	

Revisions:	Permit Review Comments
1 12-17-14	

Drawn:	Checked:
AMD	MPC

Project No:  
1401051

Contents:  
**Plumbing Details**

P300





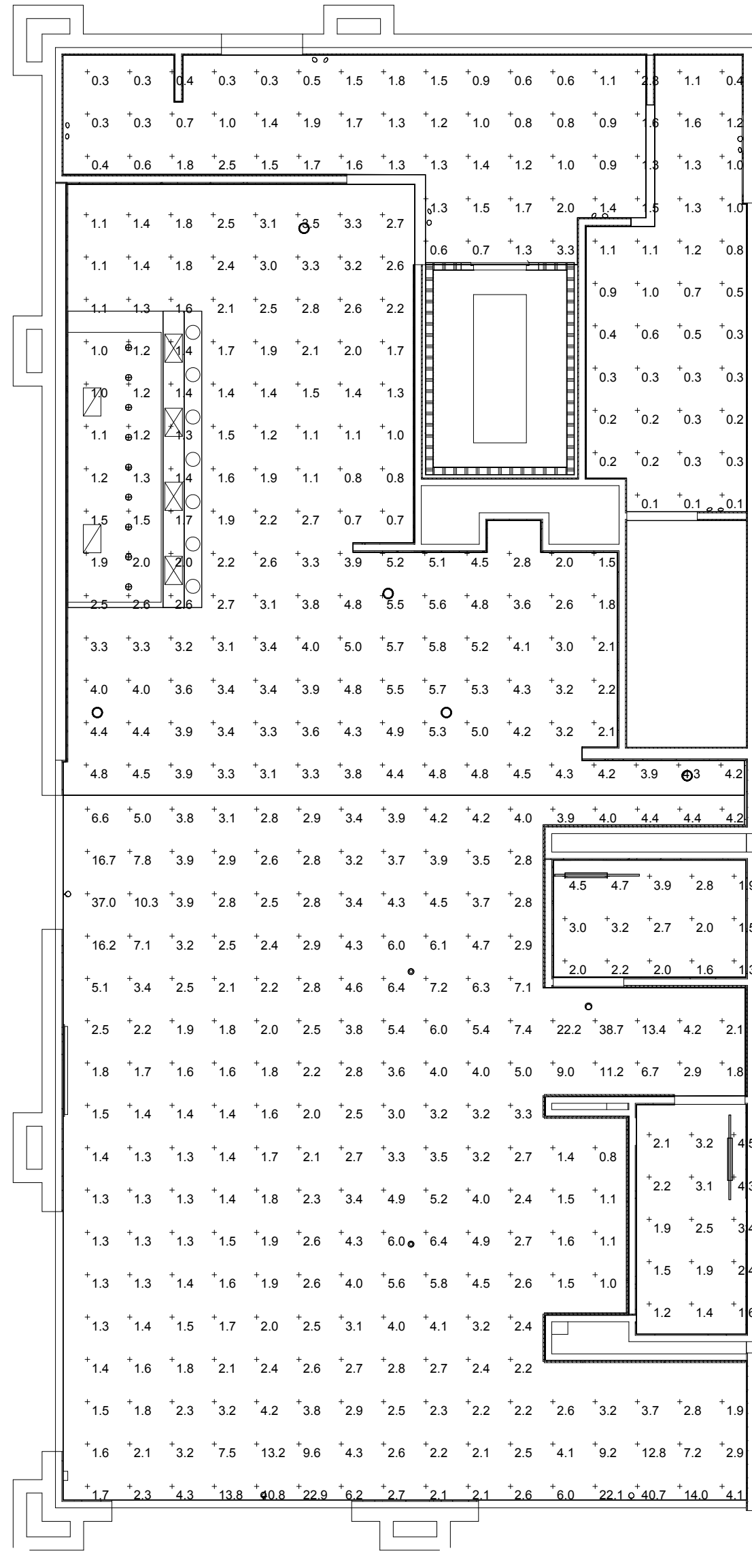
MATERIAL SCHEDULE		
CATEGORY	APPLICATION	ALLOWABLE MATERIAL
CONDUCTORS	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
CONDUITS	OUTDOOR, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	OUTDOOR OR INDOOR DAMP LOCATIONS, CONNECTION TO VIBRATING EQUIPMENT	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	INDOOR, CONCEALED	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CLAD CABLE
	INDOOR DRY LOCATIONS, CONNECTION TO VIBRATING EQUIPMENT	FLEXIBLE METAL CONDUIT
WIRING DEVICES	LOW VOLTAGE, INDOOR, ABOVE GRADE	ELECTRICAL METALLIC TUBING
	LOW VOLTAGE, BELOW GRADE	RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC)
	IN KITCHEN, OFFICE, OR NON-PUBLIC SPACES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IG OR IG/IGI RECEPTACLES	ORANGE DEVICE WITH STAINLESS STEEL COVER PLATE
WIRING DEVICES	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON PLYWOOD, HOT ROLLED STEEL, OR RICHLITE	BLACK DEVICE WITH BLACK COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE

- ELECTRICAL GENERAL NOTES**
- GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
  - ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE SHEET A000 FOR THE PREVAILING CODES.
  - WIRING SHALL BE (2) #12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.
  - INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
  - CIRCUIT EMERGENCY EGRESS LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING.
  - INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 48" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.
  - INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
  - PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT BUSHING.
  - THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
  - ELECTRICAL DESIGN COMPLIES WITH THE NEC 2008 CODE.

- ELECTRICAL SYMBOLS**
- CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY
  - CONDUIT CONCEALED BELOW THE SLAB
  - HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
  - PLAN NOTE-SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
  - DISCONNECT SWITCH:  
X = SWITCH RATING  
Y = FUSE SIZE (NF = NON-FUSED)  
Z = NUMBER OF POLES
  - JUNCTION BOX
  - ELECTRIC PANELBOARD
  - GENERAL PURPOSE 1-POLE SWITCH
  - MANUAL STARTER WITH PILOT LIGHT
  - OCCUPANCY SENSOR ACTIVATED WALL SWITCH (HUBBELL LHMTS1W - LIGHTHAWK PIR & US SINGLE CIRCUIT, WHITE)
  - NEMA 5-20R DUPLEX RECEPTACLE

- PLAN NOTES**
- STORE LIGHTING SWITCH BANK. PROVIDE ONE SWITCH PER LIGHTING CIRCUIT. LABEL SWITCHES WITH AREA SERVED.
  - CONNECT LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE STORE LIGHTING SWITCH BANK. PROVIDE ONE UNSWITCHED CONDUCTOR FOR CONNECTION TO LOCALLY SWITCHED FIXTURES, FIXTURES DESIGNATED AS NIGHT LIGHTS, EXIT SIGNS, AND EMERGENCY FIXTURES.
  - WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE.
  - VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED.
  - PROVIDE DOUBLE-POLE SINGLE-THROW LIGHT SWITCH IN OFFICE FOR CONTROL OF OFFICE LIGHT AND RESTROOM EXHAUST FAN.
  - INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER.
  - INSTALL DUAL-LITE LG25 EMERGENCY LIGHTING MINI INVERTERS, EM1 AND EM2, FURNISHED BY OWNER ON WALL. CONNECT TO CIRCUIT SHOWN. INVERTER SHALL BE CAPABLE OF POWERING UP TO 250W OF FLUORESCENT LIGHT FIXTURES AT 100% LIGHT OUTPUT FOR 90 MINUTES.
  - CONNECT LIGHTS TO EMERGENCY LIGHTING INVERTER SHOWN. CONNECT LIGHTS SO THAT THEY OPERATE 24 HOURS PER DAY AS NIGHT LIGHTS AND ALSO STAY ILLUMINATED DURING A LOSS OF POWER AS EMERGENCY LIGHTS.
  - PROVIDE GFCI RECEPTACLES FOR UNDERSHELF LIGHTING AS SHOWN IN DETAIL 5/E110. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT AS SHOWN. SEE ARCHITECTURAL ELEVATIONS FOR RECEPTACLE LOCATIONS AND HEIGHTS. RECEPTACLES SHALL BE INSTALLED IN A HORIZONTAL ORIENTATION.
  - INSTALL HANGING LIGHT FIXTURES WITH LOOSE CORD SO THAT CORD HAS 6"-12" OF SLACK. DO NOT SECURE CORD TO HANGING ROD. TYPICAL.
  - PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.
  - CONCEAL EMERGENCY LIGHT FIXTURE ABOVE THE RESTROOM AND BELOW THE TOP OF THE PLYWOOD BOX TO POWER REMOTE EMERGENCY FIXTURE. LIGHT FIXTURE SHALL NOT BE VISIBLE FROM THE DINING ROOM AND RESTROOMS.
  - PROVIDE QUAD RECEPTACLE CONCEALED ABOVE BOX. CONNECT TO A SWITCHED LEG OF THE LIGHTING CIRCUIT AS SHOWN.
  - PROVIDE (2) GFCI RECEPTACLES FOR UNDERSHELF LIGHTING AS SHOWN. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT AS SHOWN. SEE ARCHITECTURAL ELEVATIONS FOR RECEPTACLE LOCATIONS AND HEIGHTS.
  - CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL PER DETAIL 2/E200.
  - INSTALL WALL-MOUNTED OCCUPANCY SENSOR FURNISHED BY LIGHTING SUPPLIER. ADJUST SETTINGS SWITCHES SO THAT SWITCHES 1, 2, 3, 7, AND 8 ARE UP AND SWITCHES 4, 5, AND 6 ARE DOWN.

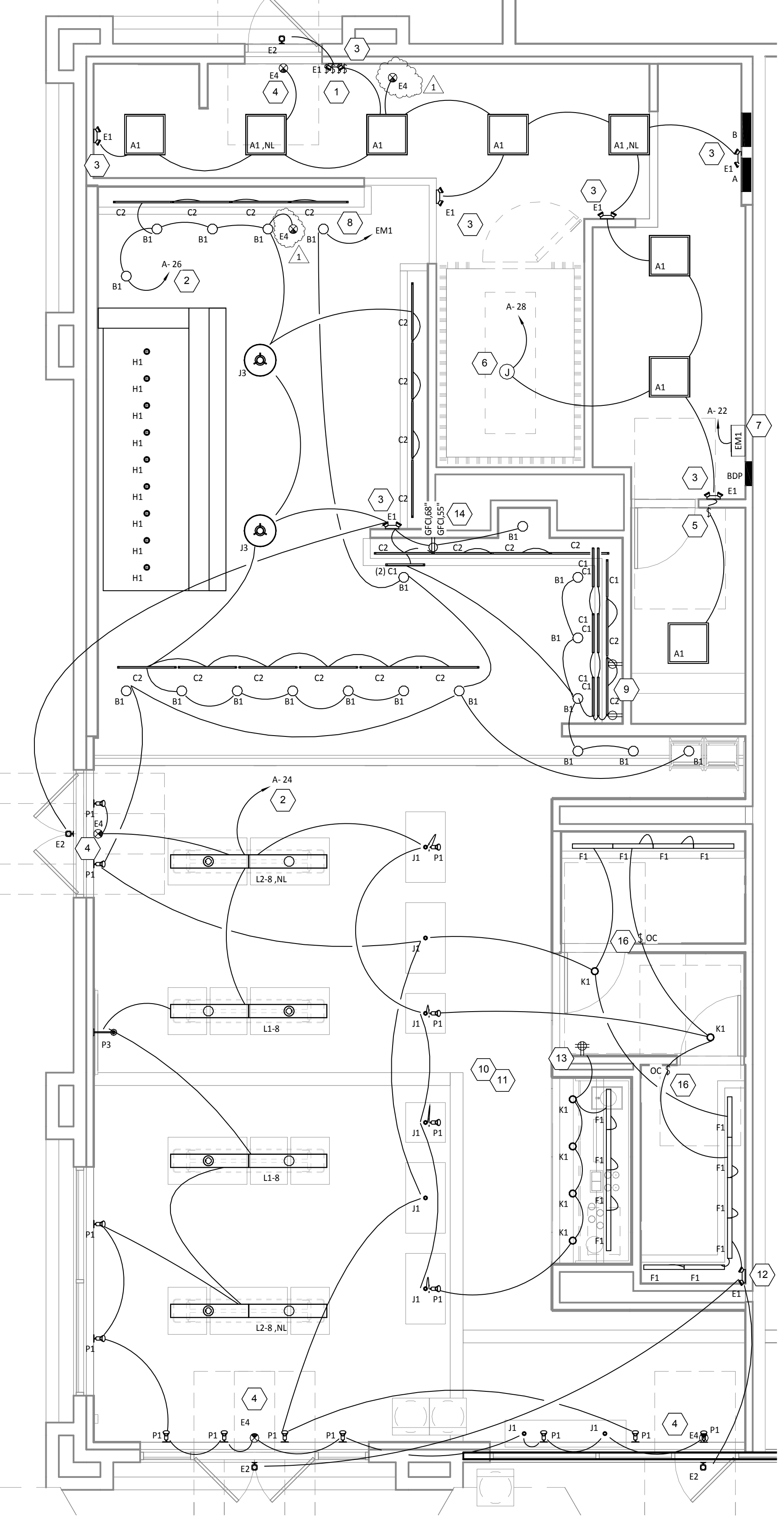
- ABBREVIATIONS**
- AFB ABOVE FINISHED FLOOR
  - AFG ABOVE FINISHED GRADE
  - C CONDUIT
  - G GROUND
  - GFCI GROUND FAULT CIRCUIT INTERRUPT
  - IG ISOLATED GROUND
  - JB JUNCTION BOX
  - NL NIGHT LIGHT
  - S SURFACE MOUNTED
  - WP WEATHERPROOF
  - GC GENERAL CONTRACTOR
  - HES TENANT'S HVAC EQUIPMENT SUPPLIER
  - TAB TENANT'S TEST AND BALANCE VENDOR
  - TCC TENANT'S CABLING CONTRACTOR
  - TES TENANT'S KITCHEN EQUIPMENT SUPPLIER
  - THS THIS
  - TLS TENANT'S LIGHT/LAMP SUPPLIER
  - TMB TENANT'S MENU BOARD SUPPLIER
  - TMS TENANT'S MILLWORK SUPPLIER
  - TP TENANT'S PHONE SUPPLIER
  - TRS TENANT'S RAILING SUPPLIER
  - TSV TENANT'S SIGN VENDOR
  - WCS TENANT'S WALK-IN COOLER SUPPLIER



**PHOTOMETRIC STATISTICS**

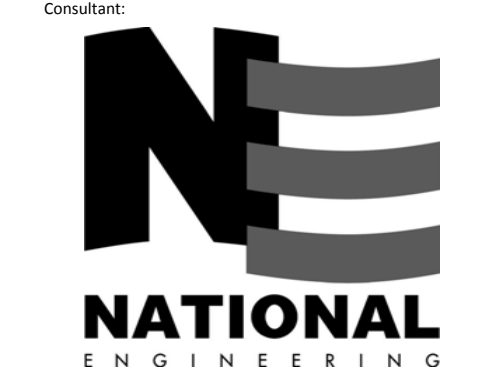
AREA	MAX	MIN	AVG
MEN'S RR	4.7 FC	1.3 FC	2.6 FC
WOMEN'S RR	4.5 FC	1.2 FC	2.5 FC
DINING	40.8 FC	0.8 FC	4.5 FC
BACK OF HOUSE	3.3 FC	0.1 FC	1.0 FC
KITCHEN	5.8 FC	0.7 FC	2.9 FC

ILLUMINATION LEVELS SHOWN ARE MEASURED AT FLOOR LEVEL. THESE WERE CALCULATED USING VISUAL LIGHTING PROFESSIONAL EDITION VERSION 2.06.0234



LIGHTING FIXTURE SCHEDULE										
TAG	TYPE	MOUNT	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	LAMP(S)	VOLTS	WATTS	SPECIAL REQUIREMENTS
A1	2x2 LENSED TROFFER	LAY-IN	TLS	GC	CRESCENT	Z2GPA17FSA1B04YK3	(4)FO17/830/ECO	120	68	
B1	RECESSED GIN CAN LIGHT	CEILING	TLS	GC	NORA LIGHTING	NHIC-RG24ATFL with NTM-57W/M1 Trim	(1) 12W CREE PAR38 LED (20"-2700K) W/ GU 24 BASE	120	12	
C1	LOW PROFILE FLUORESCENT 2FT	SURFACE	TLS	GC	HERA	ES22WW/BC	(1) FP14/830/ECO (INCLUDED)	120	14	FURNISHED WITH COVERS, (1) HARDWARE BOX, AND CONNECTORS, OR CORD & PLUG
C2	LOW PROFILE FLUORESCENT 3FT	SURFACE	TLS	GC	HERA	ES34WW/BC	(1) FP21/830/ECO (INCLUDED)	120	21	FURNISHED WITH COVERS, (1) HARDWARE BOX, AND CONNECTORS, OR CORD & PLUG
E1	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	TLS	GC	EXITRONIX	LED-90 WHITE	(2) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP
E2	EMERGENCY LIGHT - SINGLE HEAD	VARIOUS	TLS	GC	EXITRONIX	HLED-BL-WP with PMC-B-1 Mounting Plate	(1) SPECIAL LED	120	1	EXTERIOR REMOTE EMERGENCY HEAD
E4	WHITE EXIT LIGHT - STANDARD RED LETTERS	VARIOUS	TLS	GC	EXITRONIX	VEX-8P-WB-WH	(1) SPECIAL LED	120	4	90 MINUTE BATTERY BACKUP, FURNISHED WITH WALL MOUNT
F1	2 FT FLUORESCENT FIXTURE	SURFACE	TLS	GC	CRESCENT	C117BK1Y	(1)FO17/830/ECO	120	17	
H1	HOOD LIGHT	SURFACE	THS/TLS	GC	VAPOR PROOF LIGHT FIXTURE FURNISHED WITH HOOD	FURNISHED WITH HOOD	(1) CF23EL/MINI/827	120	23	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J1	PENDANT LIGHT - ADJUSTABLE HEIGHT - PAR 20	CEILING	TLS	GC	KAMMETAL	C-LP1-01	(1) 7W ECOSTORY PAR20 LED (50"-2750K) W/ GU 10 BASE	120	7	SEE ARCHITECTURAL RCP FOR STEM LENGTH
J3	PENDANT DOME LIGHT - ADJUSTABLE HEIGHT - PAR20	CEILING	TLS	GC	HI-LITE MFG. CO.	H-CW1600-2	(1) 32W CFL (2700K) W/ GU 24 BASE	120	32	WITH JELLY JAR. SEE ARCHITECTURAL RCP FOR STEM LENGTH
K1	KEYLESS DOWN LIGHT	CONCEALED	TLS	GC	SATCO	90-2467	(1) 12W ECOSTORY PAR30 LED (30"-2750K) W/ GU 24 BASE	120	12	
L1-8	LONG LIGHT - 8 TOP - PAR 20	SUSPENDED	TMS/TLS	GC	KAMMETAL	C-L1-08	(8) FP23/830/ECO, (4) FP28/830/ECO	120	140	WITH DUAL CIRCUIT SWITCHING, 223-TS-XX COLORED FLUOR. SLEEVES
L2-8	LONG LIGHT - 8 TOP - PAR 20 - W/ EM BALLAST	SUSPENDED	TMS/TLS	GC	KAMMETAL	C-L2-08-EM	(8) FP23/830/ECO, (4) FP28/830/ECO	120	140	WITH DUAL CIRCUIT SWITCHING, EM BALLASTS, 223-TS-XX COLORED FLUOR. SLEEVES
P1	ACCENT LIGHT - SWIVEL SPOT LIGHT - SINGLE HEAD	CEILING	TLS	GC	LUMOS	MS-4020-B-2010035-F1 w/ (1) MS-4042-A	(1) 12W ECOSTORY PAR30 LED (30"-2750K) W/ GU 24 BASE	120	12	
P3	ACCENT LIGHT - ARTWORK LIGHT FIXTURE	WALL	TLS	GC	KAMMETAL	C-LC2-01A	(1) 12W ECOSTORY PAR30 LED (30"-2750K) W/ GU 24 BASE	120	12	

- LIGHTING FIXTURE SCHEDULE NOTES**
- FLUORESCENT LAMPS NOT INCLUDED WITH THE FIXTURE ARE TO BE MANUFACTURED BY SYLVANIA UNLESS OTHERWISE NOTED. PHILIPS FLUORESCENT LAMPS WILL BE AN ACCEPTABLE ALTERNATE.
  - SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.
  - SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.



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Issue Record	Permit & Landlord Review
10.16.2014	FOR BIDDING
1-30-15	

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Drawn: AMD  
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Project No.: 1401051

Contents:  
Electrical Lighting Plan

E100

Date of Last Print:  
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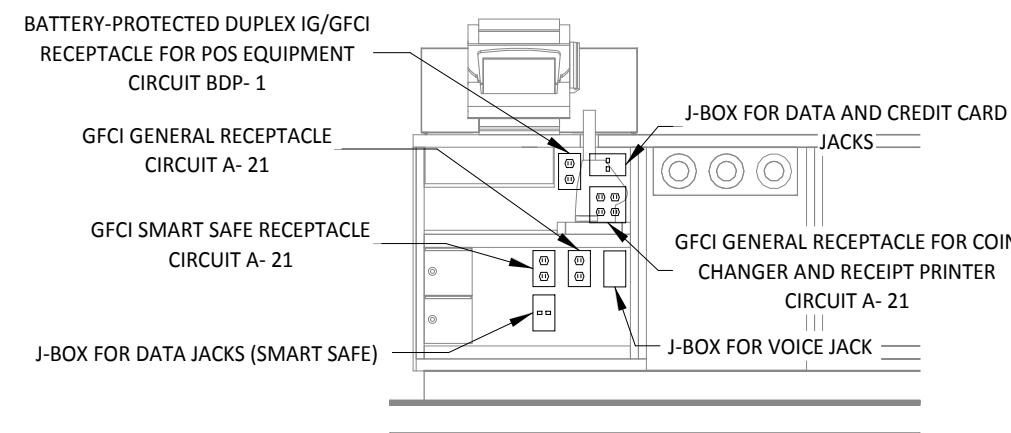


**PLAN NOTES**

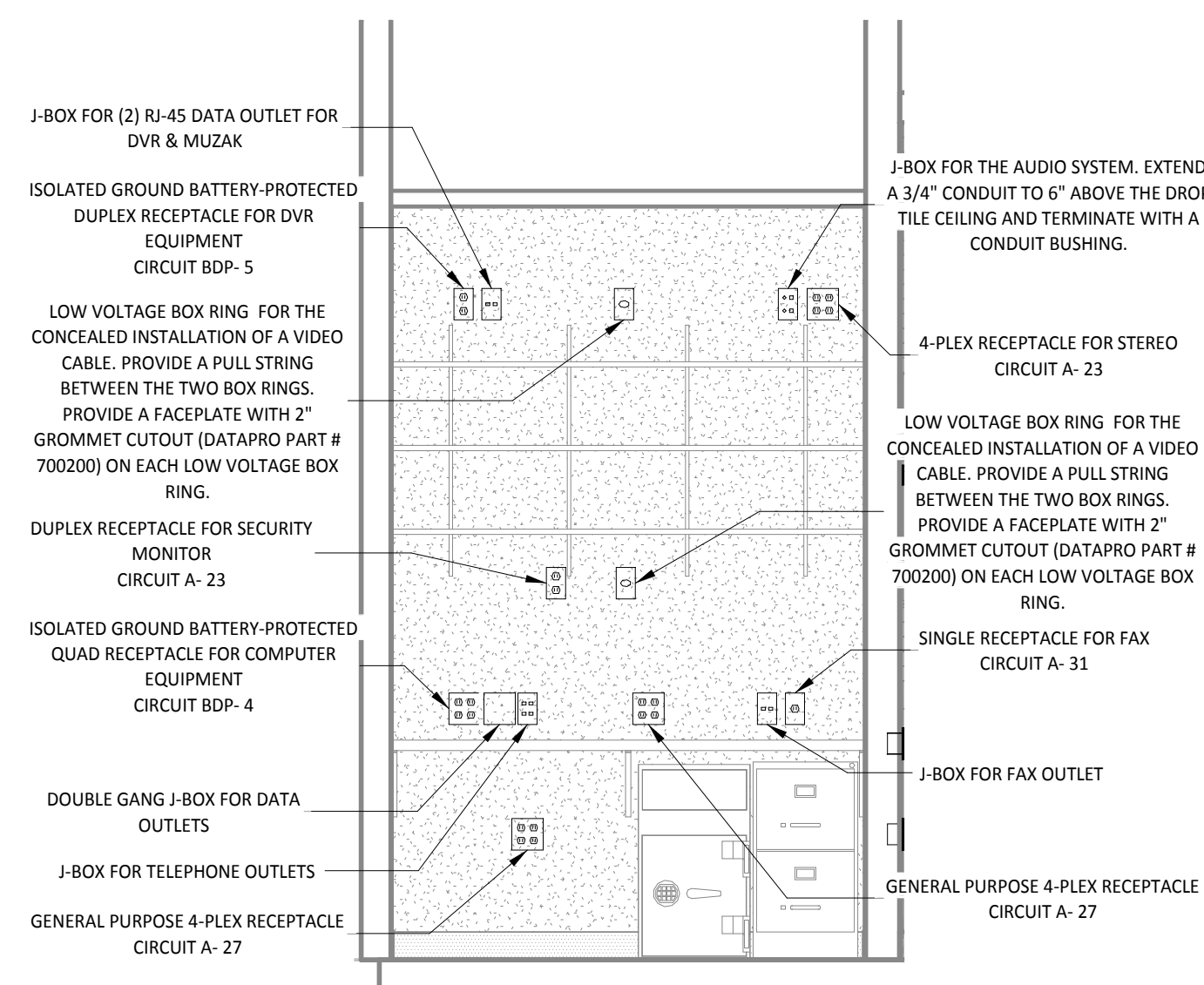
- SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW.
- ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE TWO PHASE CONDUCTORS, ONE NEUTRAL CONDUCTOR, AND ONE GROUND CONDUCTOR TO THE L14-20R RECEPTACLE. PROVIDE L5-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH L14-20P END AND ONE WITH L5-20R END, FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.
- PROVIDE RECEPTACLES FOR TELEPHONE BACKBOARDS AND T1 ROUTER AND TWO EMPTY DUAL-GANG J-BOX WITH 1" CONDUITS ROUTED TO ABOVE OFFICE CEILING.
- PROVIDE SHUNT TRIP CIRCUIT BREAKER FOR CIRCUITS SERVING EQUIPMENT BELOW THE KITCHEN HOOD. CONNECT SHUNT TRIP CIRCUIT BREAKER TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTACLE IS DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.
- JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 2/E200.
- PROVIDE 4" OCTAGONAL JUNCTION BOX WITH SCREW THREADS SET AT THE 2 & 8 O'CLOCK POSITIONS FOR THE ANSUL PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J-BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE ANSUL SYSTEM INSTALLER AND THE FIRE MARSHALL PRIOR TO ROUGH-IN.
- HOOD CONTROL PANEL AND ANSUL CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- INSTALL WIRING HARNESS FURNISHED WITH WALK-IN COOLER FROM CONDENSING UNIT ON ROOF TO THE CAPSULE-PAK REFRIGERATION MODULE ON THE WALK-IN COOLER.
- PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL THE 22/2 VOLUME CONTROL WIRE FURNISHED BY THE OWNER FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.
- COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN. SEE ARCHITECTURAL ELEVATION FOR THE POS ELEVATION.
- CONNECT WALK-IN COOLER LIGHTS TO CIRCUIT SHOWN.
- PROVIDE (3) 2" X 1'-0" X 3/4" PLYWOOD BACKBOARDS ABOVE THE OFFICE DOOR FOR THE TELEPHONE, SECURITY, AND T1 SYSTEMS. LOCATE ONE ABOVE AND TWO BELOW THE DROP TILE CEILING. SEE ARCHITECTURAL ELEVATION FOR DETAILS.
- PROVIDE AN EMPTY 3/4" CONDUIT WITH PULL STRING FROM THE BASE BUILDING'S TELEPHONE SERVICE ENTRANCE LOCATION TO THE SPACE ABOVE THE OFFICE CEILING.
- SEE ARCHITECTURAL SHEETS FOR EXACT LOCATION AND MOUNTING HEIGHT FOR FAX LINE, OFFICE, AND POS RECEPTACLES. LABEL FAX LINE, OFFICE, AND POS RECEPTACLES PER ARCHITECTURAL ELEVATIONS. AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE FAX LINE, POS, AND OFFICE.
- PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSER CU-2.
- UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.
- PROVIDE DOOR CHIME AND BUZZER AT 96" AFF SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION.
- INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE OWNER. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL 3/E200.
- ROUGH-INS TO SERVE LINE AND POS EQUIPMENT IS UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE.
- ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.
- PROVIDE SINGLE GANG VERTICAL METAL DIE CAST WEATHER-PROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE AND UNDER FOUR-COMPARTMENT SINK. COVER SHALL BE INTERMATIC WP1010MXD FOR SINGLE GANG BOXES AND WP1030MXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.
- LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED: DISCONNECT AT PANEL BDP".
- LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."
- PROVIDE A NEMA 5-15P FLANGED INLET (LEVITON MODEL #5239) AND A SINGLE NEMA 5-20R RECEPTACLE IN OFFICE FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE UPS INTO THE SINGLE RECEPTACLE.
- CONNECT EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE DOUBLE-POLE SINGLE-THROW LIGHT SWITCH IN THE OFFICE.
- INSTALL 16/2 SPEAKER WIRE FURNISHED BY OWNER FROM THE SPEAKER LOCATION TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS.
- PROVIDE POWER CONNECTIONS UNDER PREP TABLE INSTALLED IN A METALLIC PEDESTAL MOUNTED ON TOP OF A CURB PER DETAIL 6/E110. PROVIDE GFCI DUPLEX RECEPTACLES IN THREE J-BOXES INTEGRAL TO PREP TABLES (FOR UNDERCOUNTER REFRIGERATOR, HOT HOLDING CABINET, AND GENERAL RECEPTACLE). PROVIDE FINAL CONNECTION FROM PEDESTALS TO RECEPTACLES AND CARVING STATION USING LIQUIDTIGHT CONDUIT HELD TIGHT TO PREP TABLES.
- PROVIDE RECEPTACLES SHOWN AT 55" BELOW THE SHELVING IN A HORIZONTAL ORIENTATION.
- PROVIDE PASS & SEYMOUR 2095GRY (GRAY) SPEC GRADE 20A DUPLEX GFCI RECEPTACLE FOR SALAD SPINNER.
- PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.
- PROVIDE J-BOX IN CEILING AS SHOWN. PROVIDE 1" CONDUIT FROM J-BOX TO ABOVE THE OFFICE CEILING. SEE ARCHITECTURAL RCP FOR EXACT LOCATION.
- INSTALL LAUNCHPORT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE WALLSTATION AT 62" AFF AND THE WALL PLATE DIRECTLY ABOVE THE WALLSTATION AT 90" AFF. SEE ARCHITECTURAL DRAWINGS FOR HORIZONTAL LOCATION OF WALL PLATE AND WALLSTATION. PROVIDE SINGLE-GANG J-BOX AT 90" AFF FOR THE WALL PLATE INSTALLATION, A 4" X 2-1/8" DEEP OCTAGON J-BOX AT 62" AFF FOR THE WALLSTATION INSTALLATION, AND A 3/4" CONDUIT BETWEEN THE TWO J-BOXES. INSTALL THE CONNECTING CORD THROUGH THE CONDUIT BETWEEN THE WALLSTATION AND THE WALL PLATE J-BOXES. PROVIDE RECEPTACLE AT 90" AFF NEXT TO THE WALL PLATE J-BOX AS SHOWN. THE RECEPTACLE AND WALL PLATE AT 90" AFF SHALL BE CONCEALED FROM PUBLIC VIEW BY THE HOOD.
- ALL KITCHEN RECEPTACLES RATED AT 15A OR 20A AT 120V MUST BE A GFCI RECEPTACLE.

**ELECTRICAL SYMBOLS**

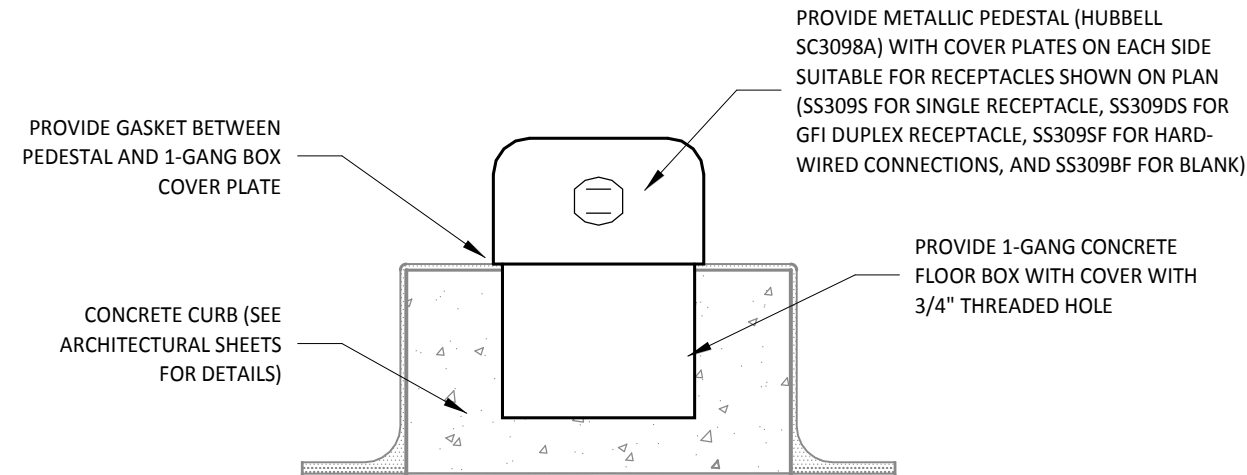
- CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY
- CONDUIT CONCEALED BELOW THE SLAB
- HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- DISCONNECT SWITCH:  
X = SWITCH RATING  
Y = FUSE SIZE (NF = NON-FUSED)  
Z = NUMBER OF POLES
- JUNCTION BOX
- ELECTRIC PANELBOARD
- GENERAL PURPOSE 1-POLE SWITCH
- MANUAL STARTER WITH PILOT LIGHT
- WEATHER-PROOF SWITCH
- OCCUPANCY SENSOR ACTIVATED WALL SWITCH (HUBBELL LHM7S1W - LIGHTHAWK PIR & US SINGLE CIRCUIT, WHITE)
- NEMA 5-20R 1-PLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE
- NEMA 5-20R DOUBLE-DUPLEX RECEPTACLES
- NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND/GFI RECEPTACLE PASS & SEYMOUR MODEL2095GTRD
- OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE
- JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- DOUBLE GANG JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- JUNCTION BOX FOR RJ-11 TELEPHONE OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- SECURITY SYSTEM KEYPAD: PROVIDE A RECESSED JB WITH A 1/2" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA AND TERMINATE WITH A CONDUIT BUSHING



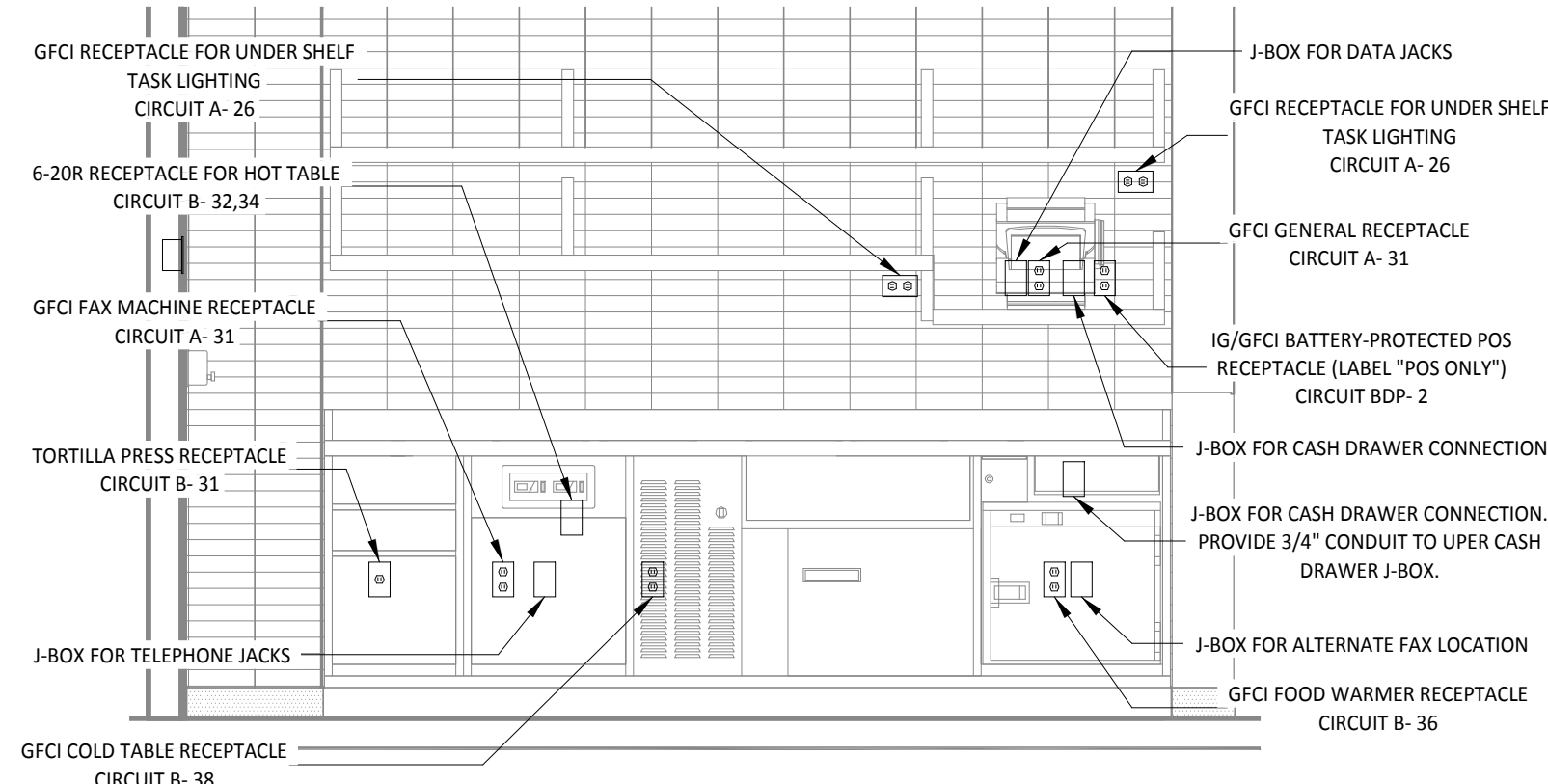
**POS COUNTER ELECTRICAL ELEVATION**  
6/E110 1/2" = 1'-0"



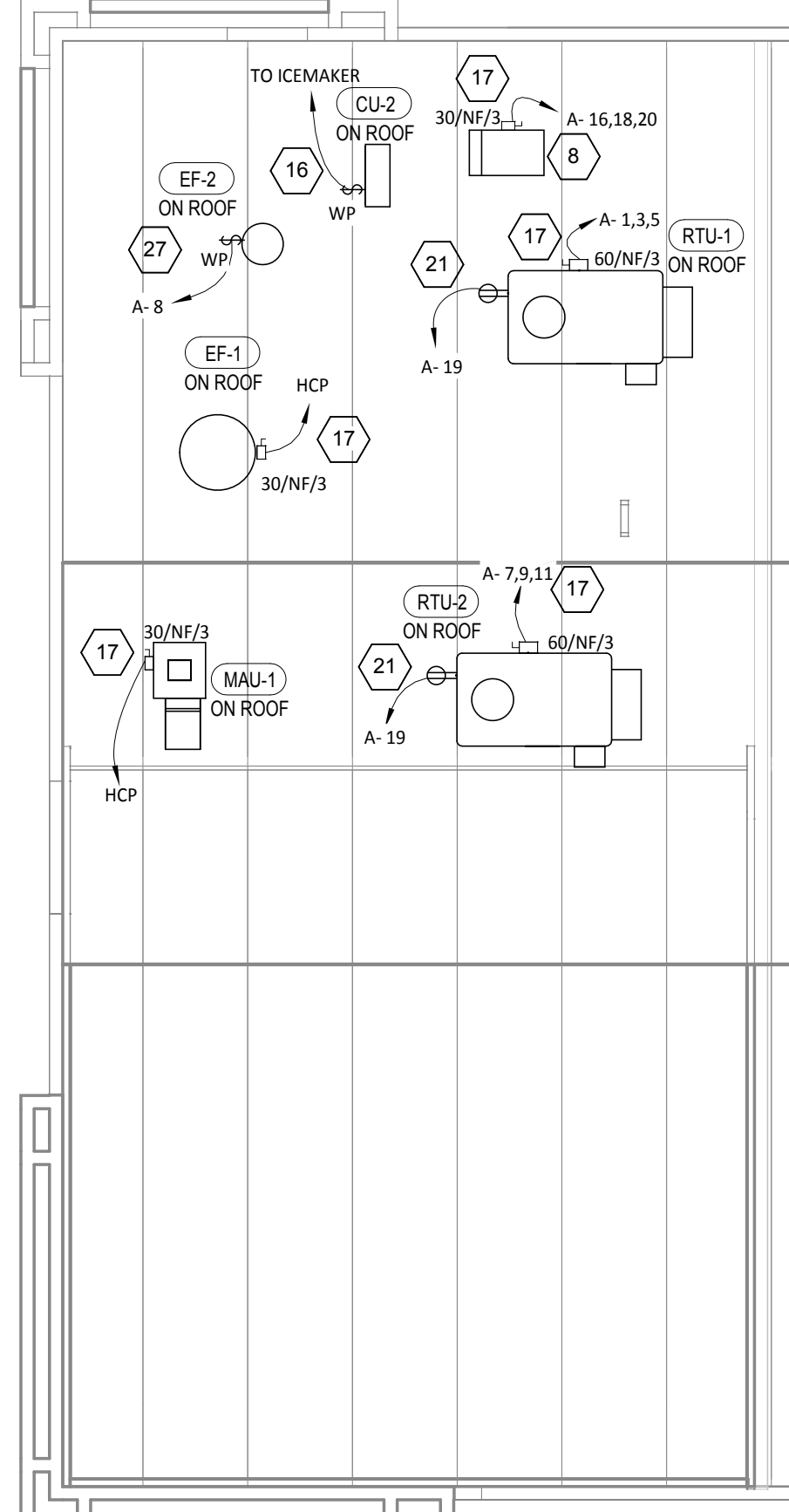
**OFFICE DESK ELECTRICAL ELEVATION**  
3/E110 1/2" = 1'-0"



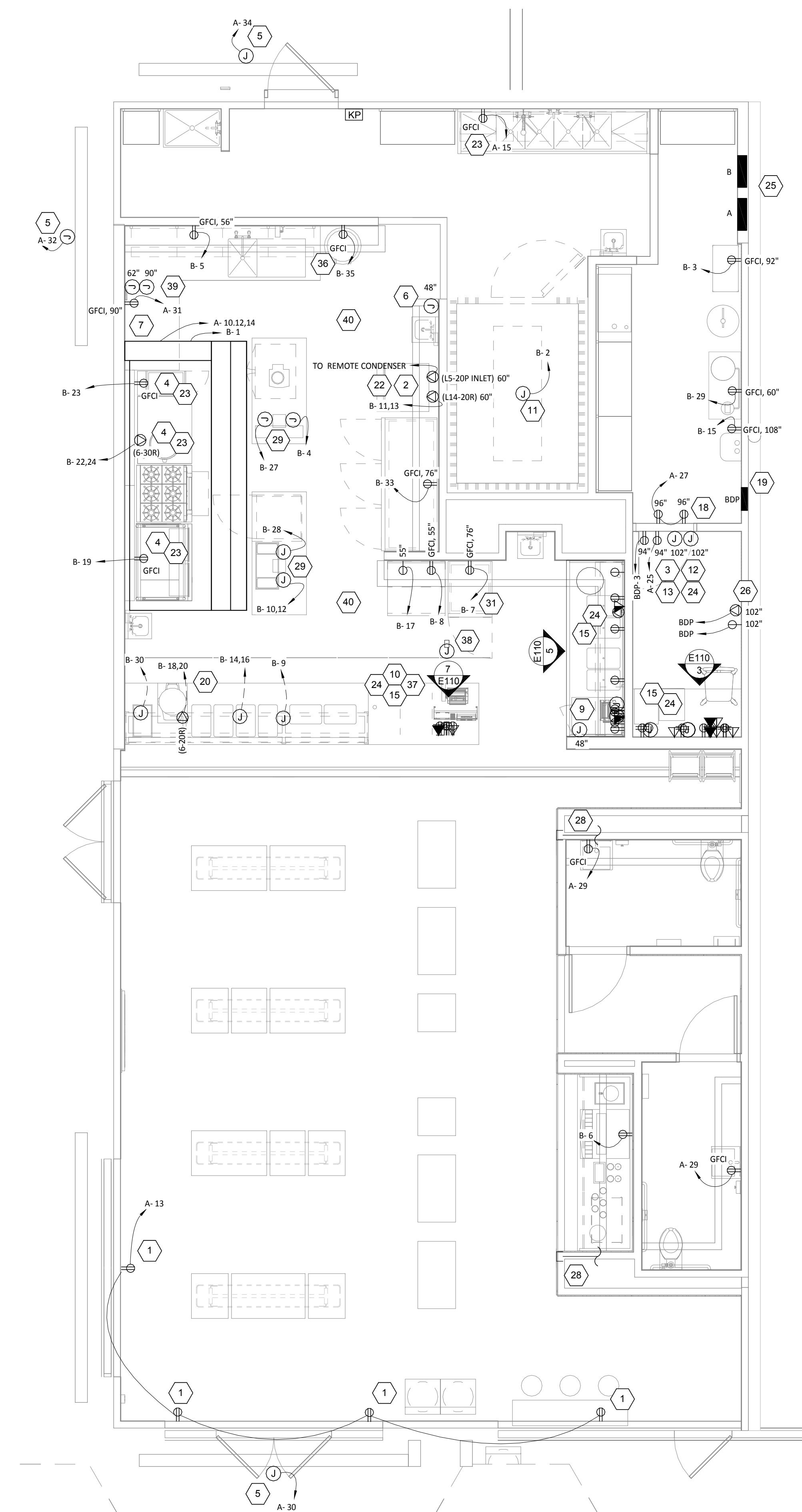
**PEDESTAL OUTLET DETAIL**  
6/E110 N.T.S.



**FAX LINE ELECTRICAL ELEVATION**  
5/E110 1/2" = 1'-0"



**POWER ROOF PLAN**  
2/E110 1/8" = 1'-0"



**POWER FLOOR PLAN**  
3/E110 1/4" = 1'-0"



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Issue Record:	Permit & Landlord Review
10.16.2014	
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AMD	MPC

Project No.  
1401051

Contents:  
Electrical Power Plan

E110

Date of Last Print:  
1-30-15



STORE NO.: 2417  
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 Miramar, FL 33027

Issue Record:	Permit & Landlord Review
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Revisions:

No.	Description

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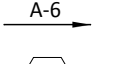
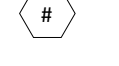
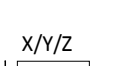


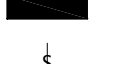
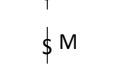
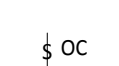


Project No.  
 1401051

Contents:  
 Security Camera Plan

**E120**

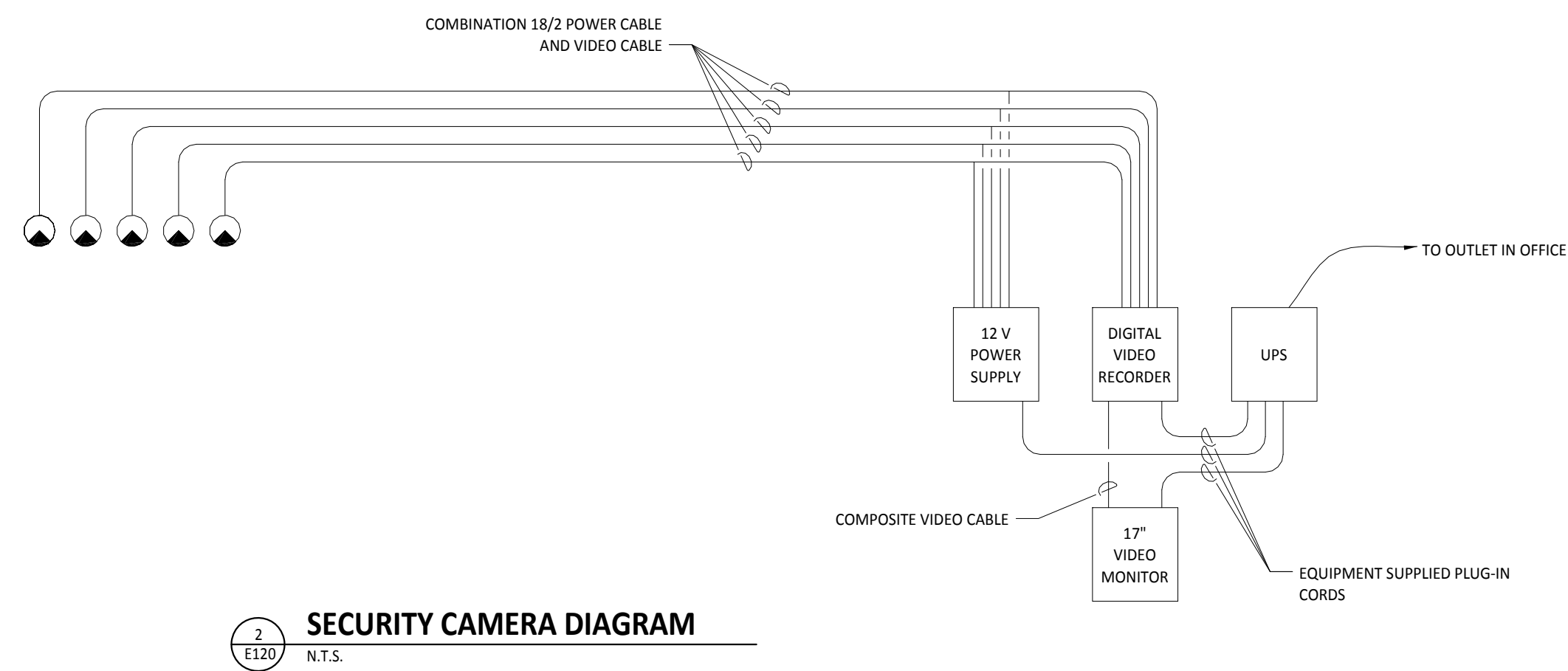
Date of Last Print:  
 1-30-15

**ELECTRICAL SYMBOLS**

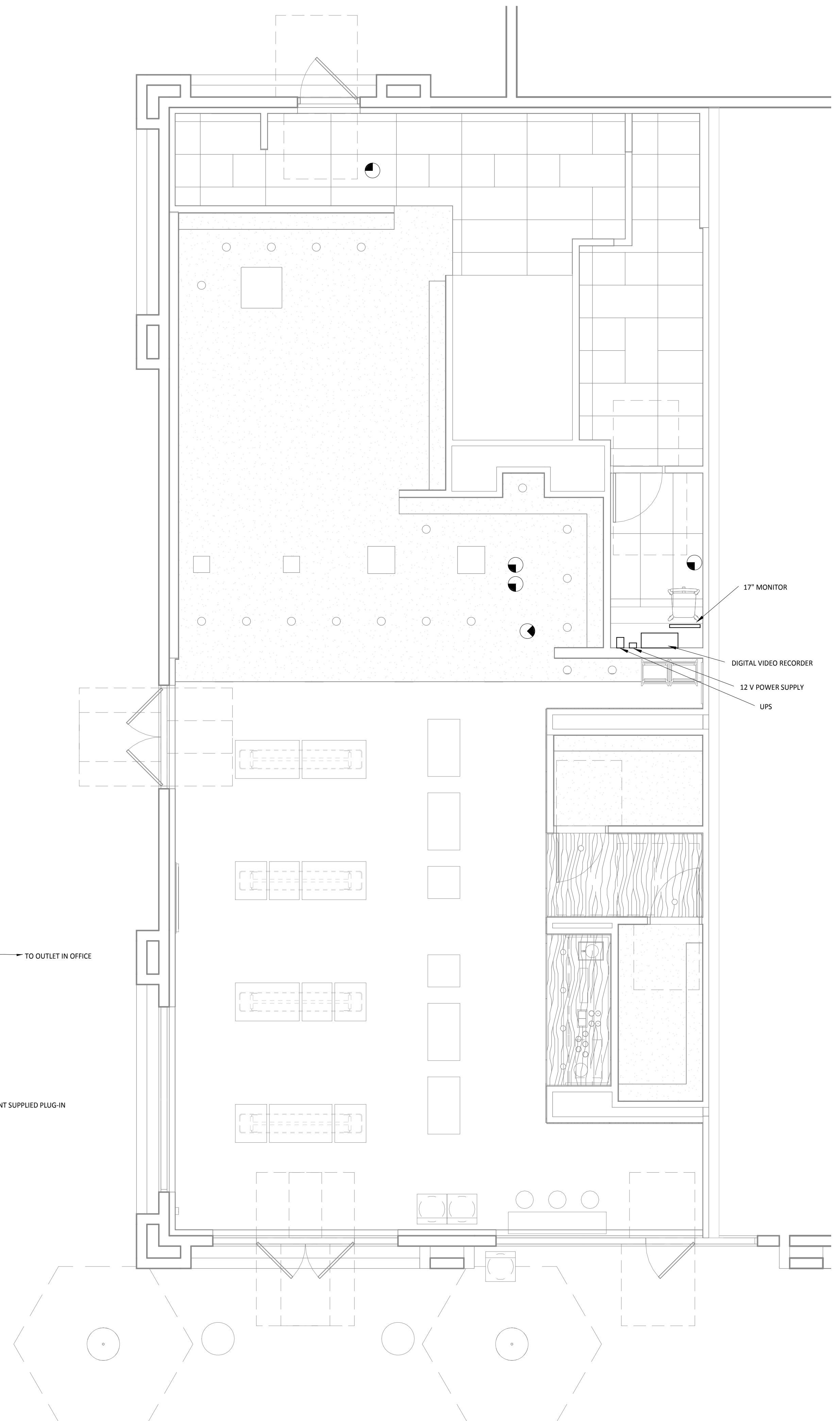
-  CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY
-  CONDUIT CONCEALED BELOW THE SLAB
-  HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
-  PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
-  DISCONNECT SWITCH:  
X = SWITCH RATING  
Y = FUSE SIZE (NF = NON-FUSED)  
Z = NUMBER OF POLES
-  JUNCTION BOX
-  ELECTRIC PANELBOARD
-  GENERAL PURPOSE 1-POLE SWITCH
-  MANUAL STARTER WITH PILOT LIGHT
-  OCCUPANCY SENSOR ACTIVATED WALL SWITCH (MANUFACTURER: WATTSTOPPER)
-  NEMA 5-20R DUPLEX RECEPTACLE
-  SECURITY CAMERA

**ABBREVIATIONS**

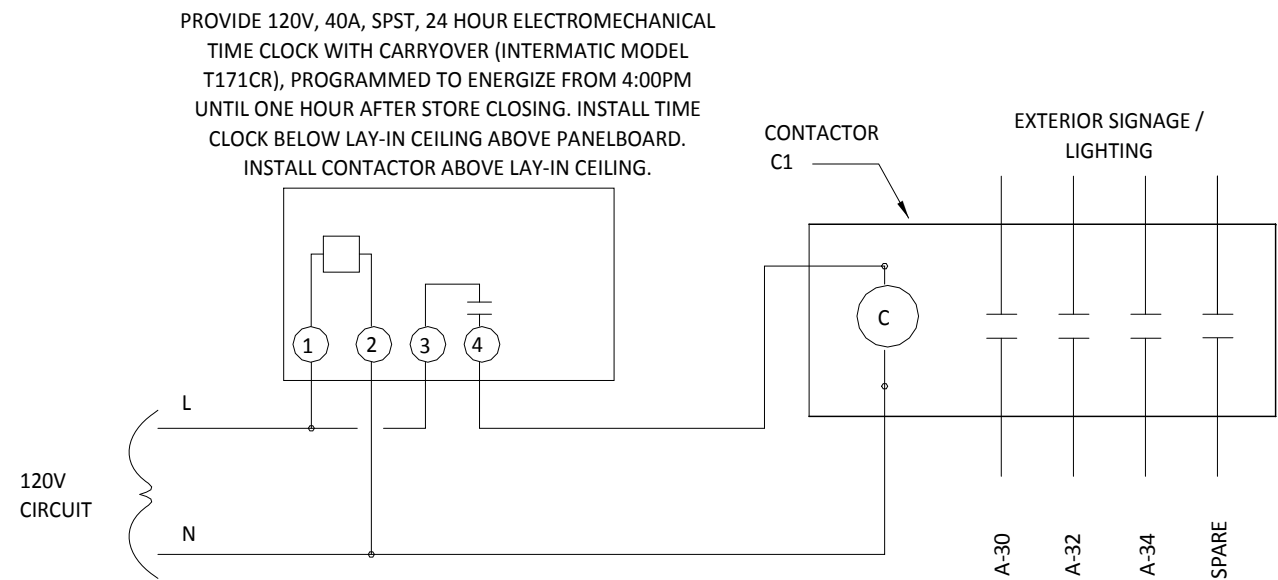
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- C CONDUIT
- G GROUND
- GFI GROUND FAULT CIRCUIT INTERRUPT
- IG ISOLATED GROUND
- JB JUNCTION BOX
- NL NIGHT LIGHT
- S SURFACE MOUNTED
- WP WEATHERPROOF



**SECURITY CAMERA DIAGRAM**  
 E120 N.T.S.

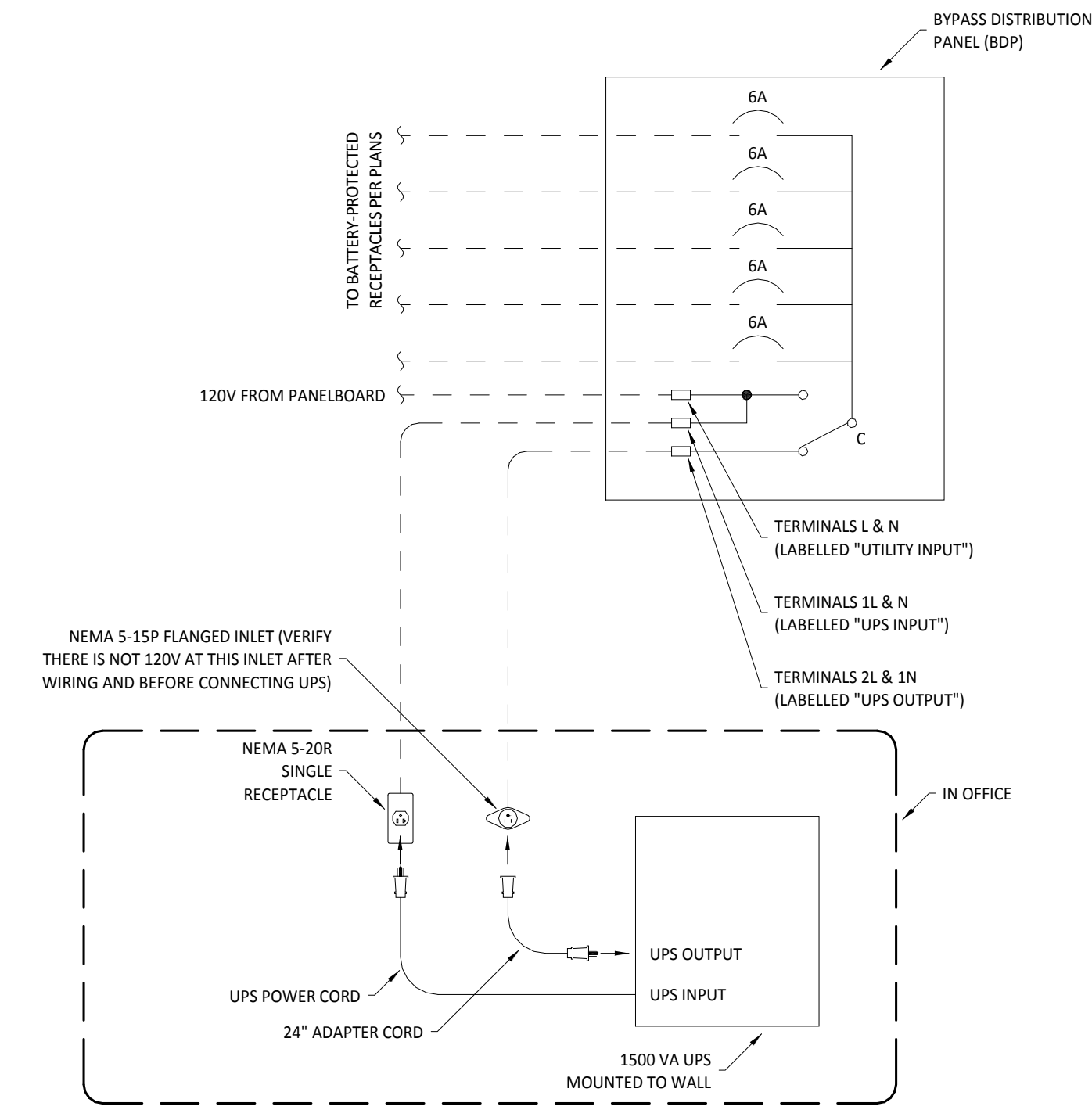


**SECURITY CAMERA FLOOR PLAN**  
 E120 1/4" = 1'-0"



**EXTERIOR SIGN LIGHTING CONTROL**

E200 N.T.S.



**LEGEND**  
 — PREWIRED CONDUCTOR  
 - - - FIELD-WIRED CONDUCTOR

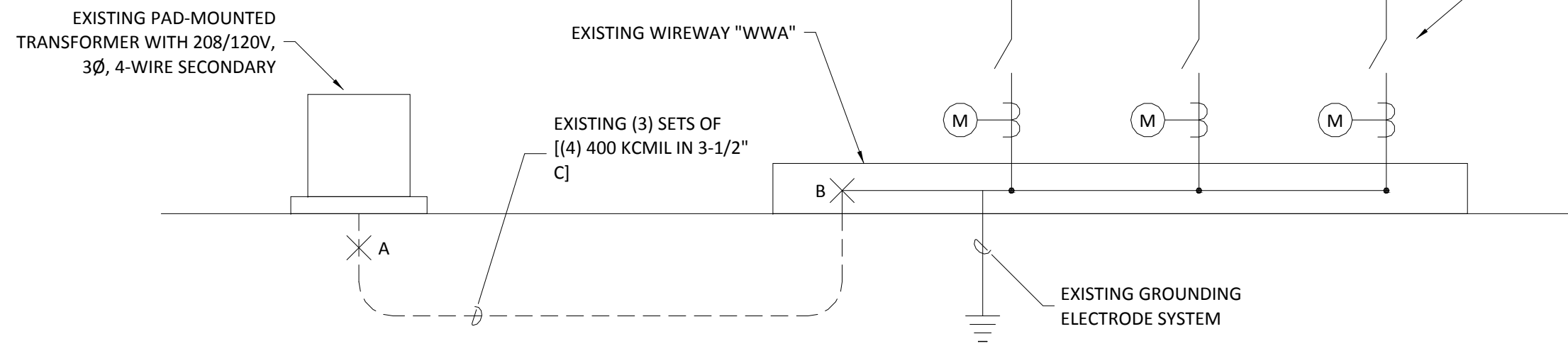
**NOTE**  
 REVIEW BDP PANEL INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.

**BYPASS DISTRIBUTION PANEL WIRING DIAGRAM**

E200 N.T.S.

Panel Name: BDP		Volts: 120	Mains: LUGS	
Mounting: Recessed		Phases: 1	Amperage: 30 A	
Enclosure: Type 1		Wires: 3		
CKT	Circuit Description	Trip	Poles	Load
1	POS	6A	1	0.2 kVA
2	Fax Line	6A	1	0.2 kVA
3	Office - Network Gear	6A	1	0.2 kVA
4	Office - Computer	6A	1	0.4 kVA
5	Office - DVR	6A	1	0.2 kVA
		<b>Total Load:</b>		0.5 kVA
		<b>Total Amps:</b>		5 A

AVAILABLE FAULT CURRENT CALCULATIONS									
POINT	VOLTAGE	PHASES	CONDUCTOR				F VALUE	M VALUE	AVAILABLE FAULT CURRENT
			LENGTH	# SETS	SIZE	CONDUIT TYPE			
A	208 V	3							31,259 A
B	208 V	3	100 FT	3	400 MCM CU	PVC	24,297	0.357	23,038 A
C	208 V	3	42 FT	1	500 MCM CU	PVC	26,706	0.302	17,693 A

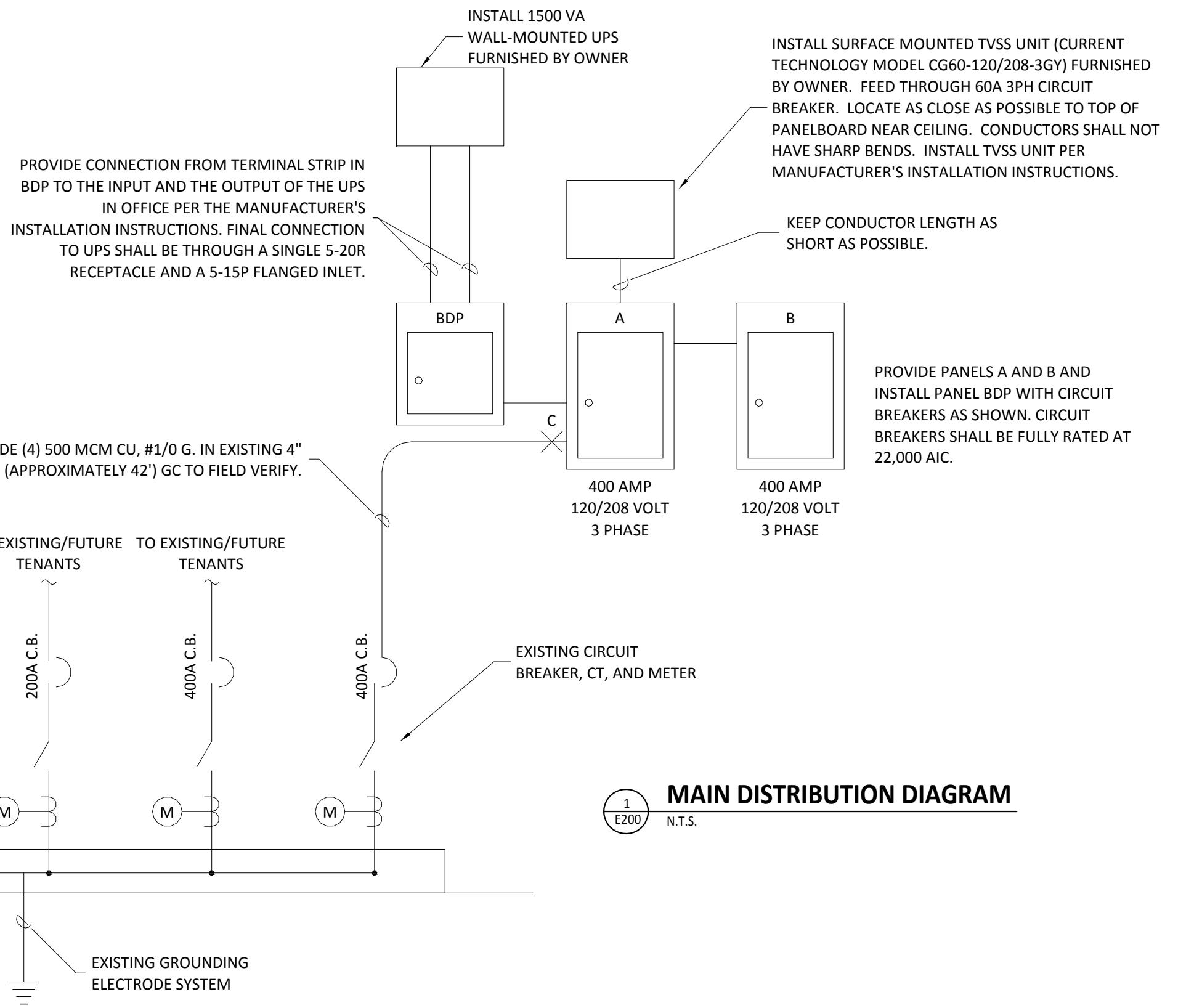


**MAIN DISTRIBUTION DIAGRAM**

E200 N.T.S.

Panel: A																	
Volts: 208/120V Wye																	
Phases: 3																	
Wires: 4																	
Mounting: Recessed																	
Enclosure: Type 1																	
Mains: LUGS																	
Amperage: 400 A																	
MCB Rating:																	
CKT	Circuit Description	Rating	Poles	Type Notes	CKT AMPS	Load Type	A	B	C	Load Type	CKT AMPS	Type Notes	Poles	Rating	Circuit Description	CKT	
1	RTU-1 (3-#8, #10 G. in 3/4" C.)	50 A	3	HACR	32.3	C	3.9 kVA	0.0 kVA			0.0		3	50 A	TVSS	2	
3								3.9 kVA	0.0 kVA							4	
5									3.9 kVA	0.0 kVA						6	
7	RTU-2 (3-#8, #10 G. in 3/4" C.)	50 A	3	HACR	42.0	C	5.0 kVA	0.5 kVA		E	4.4		1	15 A	EF-2	8	
9							5.0 kVA	1.4 kVA		E	11.7		3	30 A	EF-1/MAU-1 (3-#10, #10 G. in 3/4" C.)	10	
11								5.0 kVA	1.4 kVA							12	
13	RECEPTACLES - STOREFRONT	20 A	1		6.0	G	0.7 kVA	1.4 kVA								14	
15	WARE WASH FLOOR DRYER	20 A	1		9.8	F		1.2 kVA	2.0 kVA	F	16.2		3	20 A	CU-1 (WIC)	16	
17	Panel BDP	20 A	1		9.0	G			0.5 kVA	2.0 kVA						18	
19	RECEPTACLES - ROOFTOP	20 A	1		3.0	G	0.4 kVA	2.0 kVA								20	
21	RECEPTACLES - POS GENERAL	20 A	1		6.0	G		0.7 kVA	0.3 kVA	A	2.8		1	20 A	LIGHTING - EM/NL LUCES	22	
23	SECURITY/AUDIO	20 A	1		4.5	G			0.5 kVA	1.4 kVA	A	11.7		1	20 A	LIGHTING - DINING ROOM LUCES	24
25	TELEPHONE BACKBOARD	20 A	1		1.5	G	0.2 kVA	1.5 kVA		A	12.5		1	20 A	LIGHTING - FRONT KITCHEN LUCES	26	
27	RECEPTACLES - OFFICE	20 A	1		9.0	G		1.1 kVA	0.8 kVA	A	6.4		1	20 A	LIGHTING - BACK KITCHEN LUCES	28	
29	RECEPTACLES - RESTROOMS	20 A	1		3.0	G			0.4 kVA	0.9 kVA	B	7.5		1	20 A	SIGN LIGHTING LUCES	30
31	RECEPTACLES - FAX & LAUNCHPOINT	20 A	1		6.0	G	0.7 kVA	0.9 kVA		B	7.5		1	20 A	SIGN LIGHTING LUCES	32	
33	Spare	0 A	1					0.0 kVA	0.9 kVA	B	7.5		1	20 A	SIGN LIGHTING LUCES	34	
35	Spare	0 A	1					0.0 kVA	0.0 kVA				1	0 A	Spare	36	
37	Spare	0 A	1				0.0 kVA	0.0 kVA					1	0 A	Spare	38	
39	Spare	0 A	1					0.0 kVA	0.0 kVA				1	0 A	Spare	40	
41	Spare	0 A	1					0.0 kVA	0.0 kVA				1	0 A	Spare	42	
							<b>kVA</b>	29.1 kVA	29.2 kVA	26.9 kVA							
							<b>AMPS</b>	246 A	247 A	224 A							

Type	Description	Connected Load	Demand Factor	Estimated Demand	Panel Totals (Includes Panel B)
A	Interior Lighting	4 kVA	125.00%	5 kVA	Total Connected kVA: 85 kVA Total Connected Amps: 237 A Total Estimated kVA: 70 kVA Total Estimated Amps: 195 A
B	Exterior Lighting	3 kVA	125.00%	3 kVA	
C	Comfort Cooling	27 kVA	100.00% + 25% Largest Motor	27 kVA	
D	Comfort Heating	0 kVA	0.00%	0 kVA	
E	Miscellaneous Motor	3 kVA	100.00%	3 kVA	
F	Kitchen Equipment	41 kVA	65.00%	27 kVA	
G	Receptacles	6 kVA	100.00%	6 kVA	



Panel: B																	
Volts: 208/120V Wye																	
Phases: 3																	
Wires: 4																	
Mounting: Recessed																	
Enclosure: Type 1																	
Mains: LUGS																	
Amperage: 400 A																	
MCB Rating:																	
CKT	Circuit Description	Rating	Poles	Type Notes	CKT AMPS	Load Type	A	B	C	Load Type	CKT AMPS	Type Notes	Poles	Rating	Circuit Description	CKT	
1	HO-1 (CONTROL & LIGHTS)	20 A	1		1.5	E	0.2 kVA	0.2 kVA		F	1.7		1	20 A	WALK-IN COOLER	2	
3	SODA CARBONATOR	20 A	1		9.4	F		1.1 kVA	1.4 kVA	F	11.3	GFCI	1	20 A	FOOD PREP TABLE (ISLAND) Receptaculo	4	
5	FOOD PREP TABLE	20 A	1		11.3	F			1.4 kVA	1.1 kVA	F	9.4	GFCI	1	20 A	SODA SYSTEM DISPENSER Sistema de Sodas	6
7	BEACH-IN REFRIGERATOR	20 A	1		13.8	F	1.7 kVA	0.8 kVA		F	6.3		1	20 A	BLENDER Mezclador	8	
9	COLD TOP (SERVE LINE)	20 A	1		12.0	F		1.4 kVA	1.0 kVA	F	10.0		2	20 A	CARVING STATION	10	
11	ICE MAKER	20 A	2		10.7	F			1.1 kVA	1.0 kVA						12	
13							1.1 kVA	2.1 kVA		F	20.0		2	30 A	HOT FOOD SERVER (SERVE) Servidor Caliente del Alimento (2-#10, #10 G. in 3/4" C.)	14	
15	GAS WATER HEATER	20 A	1		5.0	F		0.6 kVA	2.1 kVA							16	
17	TORTILLA PRESS (BACK BAR)	20 A	1		13.8	F			1.7 kVA	1.4 kVA	F	13.0		2	20 A	TORTILLA PRESS (SERVE LINE) Parrilla del Emparedado (2-#10, #10 G. in 3/4" C.)	18
19	GAS GRIDDLE	20 A	1		SHNT TRIP	1.5	F	0.2 kVA	1.4 kVA							20	
21	SHUNT							0.0 kVA	0.5 kVA	F	4.8	SHNT TRIP	2	30 A	ELECTRIC RICE COOKER (2-#10, #10 G. in 3/4" C.)	22	
23	GAS FRYER	20 A	1		SHNT TRIP	0.6	F			0.1 kVA	0.5 kVA					24	
25	SHUNT						0.0 kVA	0.0 kVA								26	
27	FOOD WARMER (RICE TABLE)	20 A	1		1.5	F		0.2 kVA	1.2 kVA	F	9.8		1	20 A	REFRIGERATOR (COOK LINE) Refrigerador	28	
29	WATER SOFTENER	20 A	1		1.5	F			0.2 kVA	0.8 kVA	F	7.0		1	20 A	FUTURE EQUIPMENT	30
31	TORTILLA PRESS (FAX LINE)	20 A	1		GFCI	13.8	F	1.7 kVA	1.0 kVA	F	10.0		2	20 A	HOT FOOD SERVER (FAX LINE) Servidor Caliente del Alimento (2-#10, #10 G. in 3/4" C.)	32	
33	UPRIGHT REFRIGERATOR	20 A	1		12.0	F		1.4 kVA	1.0 kVA							34	
35	SALAD SPINNER	20 A	1		2.1	F			0.3 kVA	1.4 kVA	F	11.7		1	20 A	FOODWARMER (FAX LINE) Warmer de Alimento	36
37	Spare	0 A	1				0.0 kVA	1.2 kVA		F	10.0	GFCI	1	20 A	COLD TOP (FAX LINE) Refrigerador	38	
39	Spare	0 A	1				0.0 kVA	0.0 kVA								40	
41	Spare	0 A	1				0.0 kVA	0.0 kVA								42	
							<b>kVA</b>	11.4 kVA	12.0 kVA	10.9 kVA							
							<b>AMPS</b>	96 A	101 A	91 A							



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