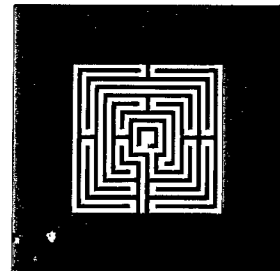


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REVISIONS	REVISIONS
10.08.09 CMB COMMENTS	

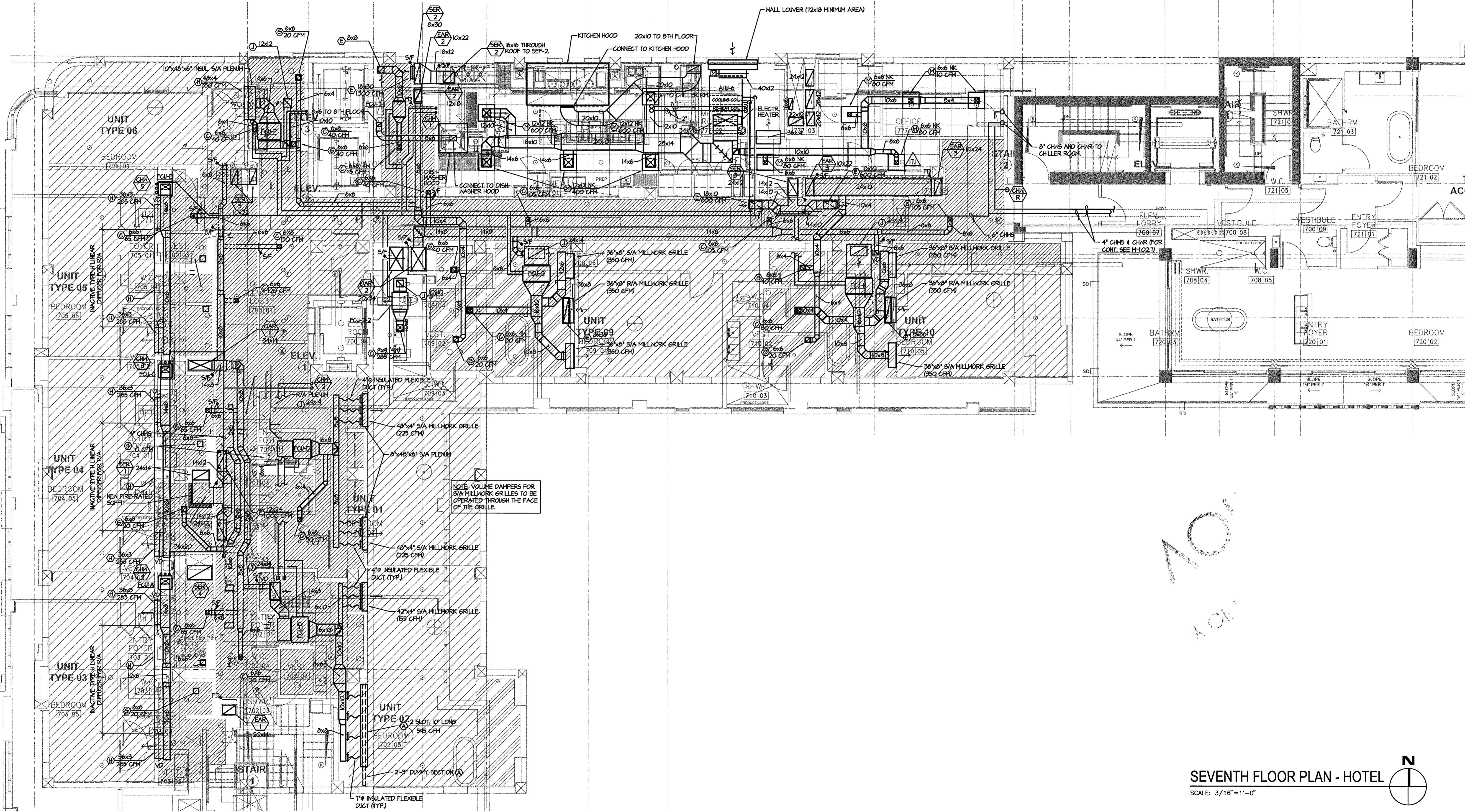
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Licence # 27035.



SOHO BEACH HOUSE
4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

M-1.01.7K
09.15.2009

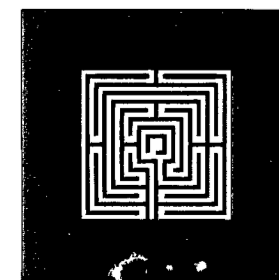
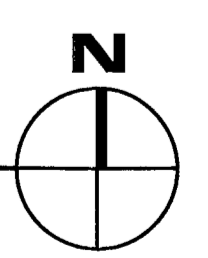
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NOTE: VOLUME DAMPERS FOR S/A MILLWORK GRILLES TO BE OPERATED THROUGH THE FACE OF THE GRILLE.

701
702

SEVENTH FLOOR PLAN - HOTEL
SCALE: 3/16" = 1'-0"



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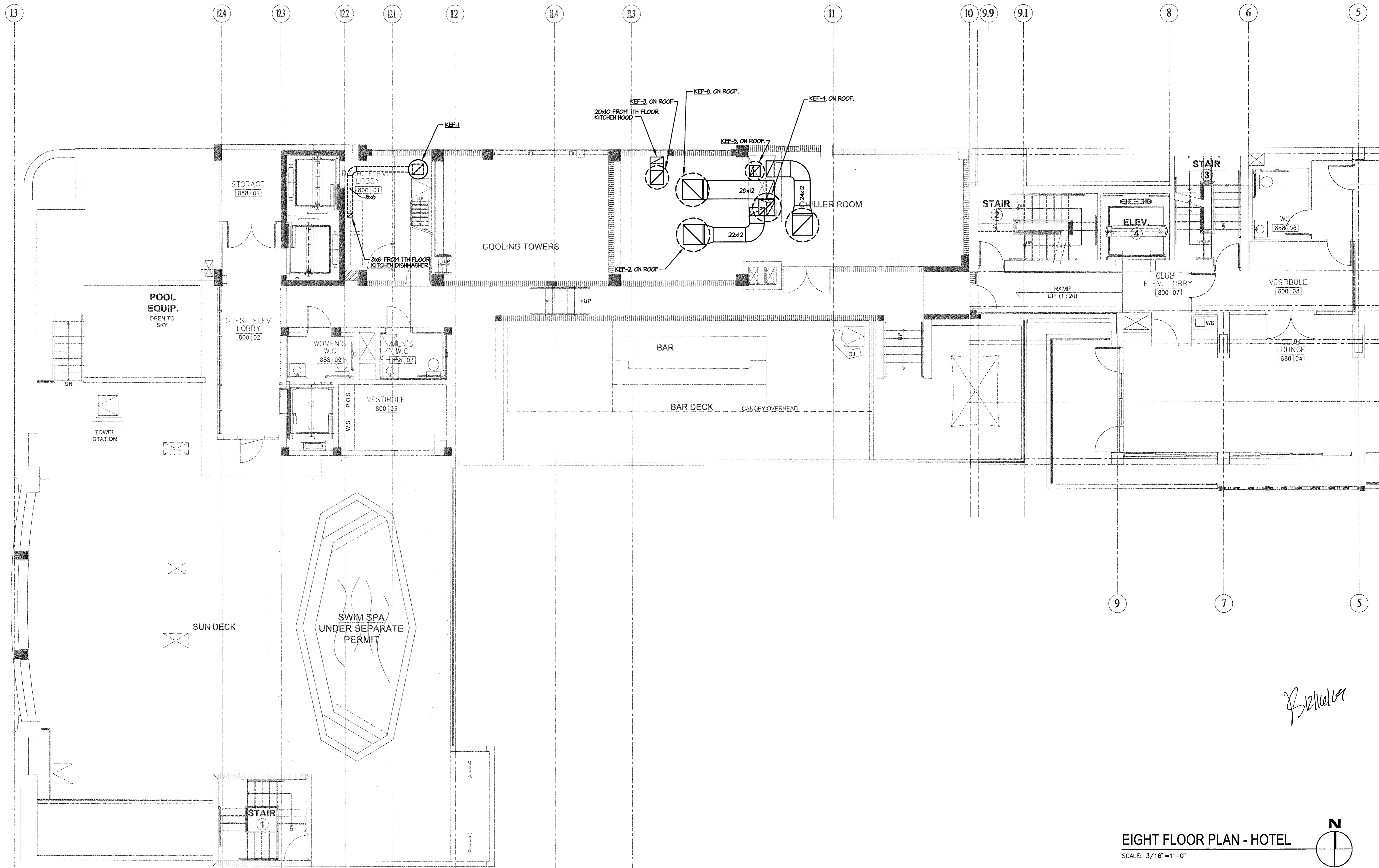
REVISIONS	REVISIONS

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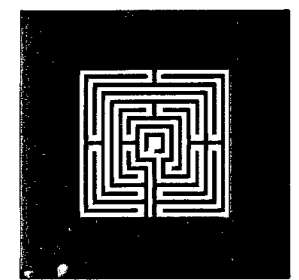
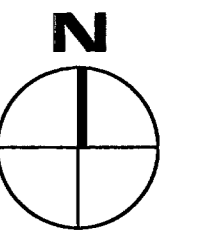
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EIGHT FLOOR PLAN - HOTEL
SCALE: 3/16" = 1'-0"



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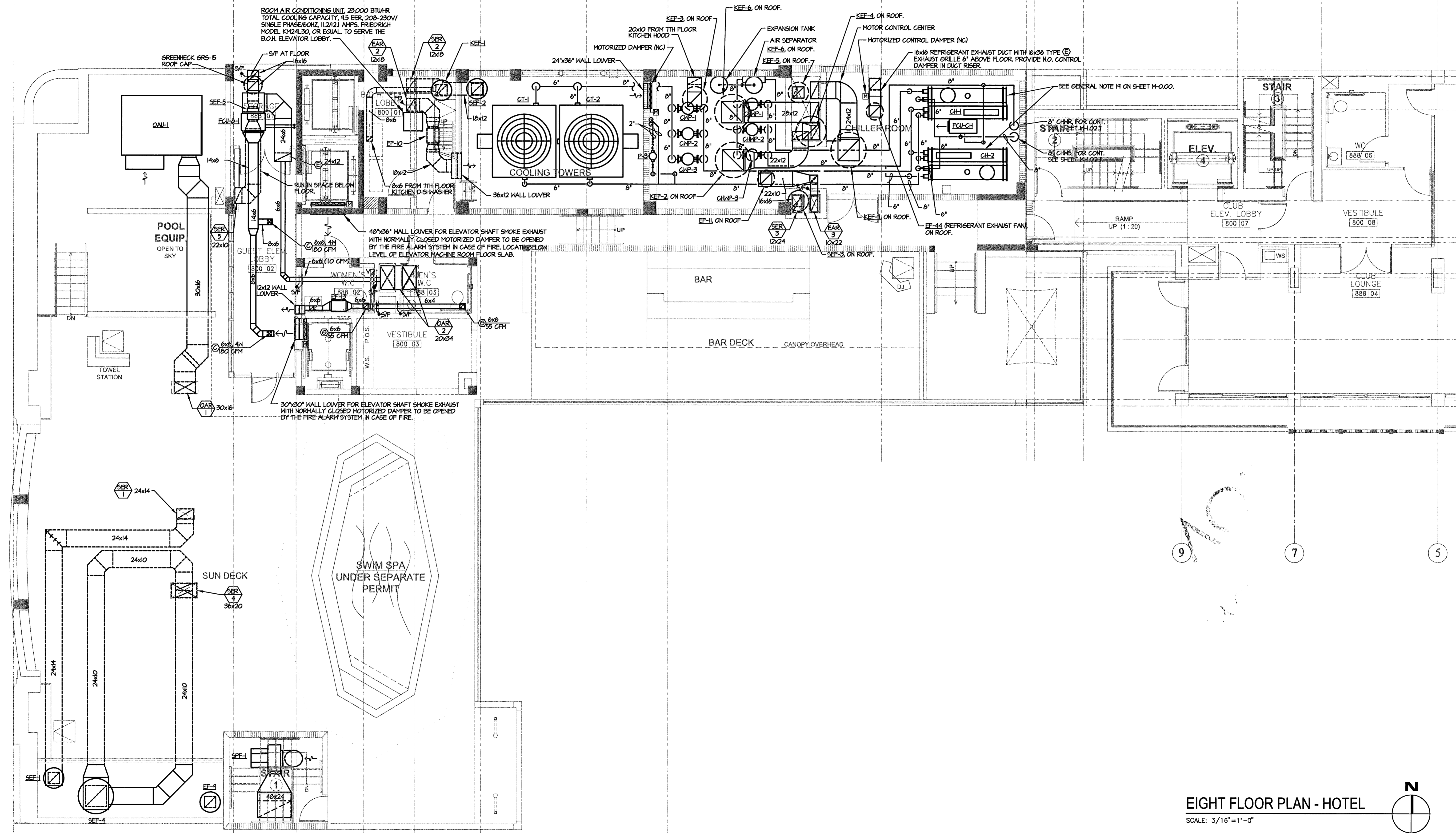
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SOHO BEACH HOUSE

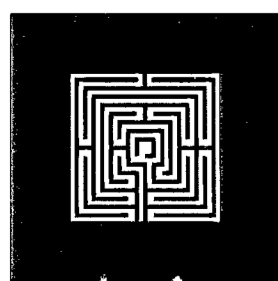
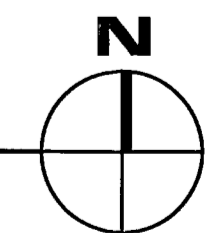
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CONSTRUCTION DOCUMENTS

M-1.01.8K
09.15.2009

13 12.4 12.3 12.2 12.1 12 1.4 1.3 11 10 9.9 9.1 8 6 5



EIGHT FLOOR PLAN - HOTEL
SCALE: 3/16" = 1'-0"



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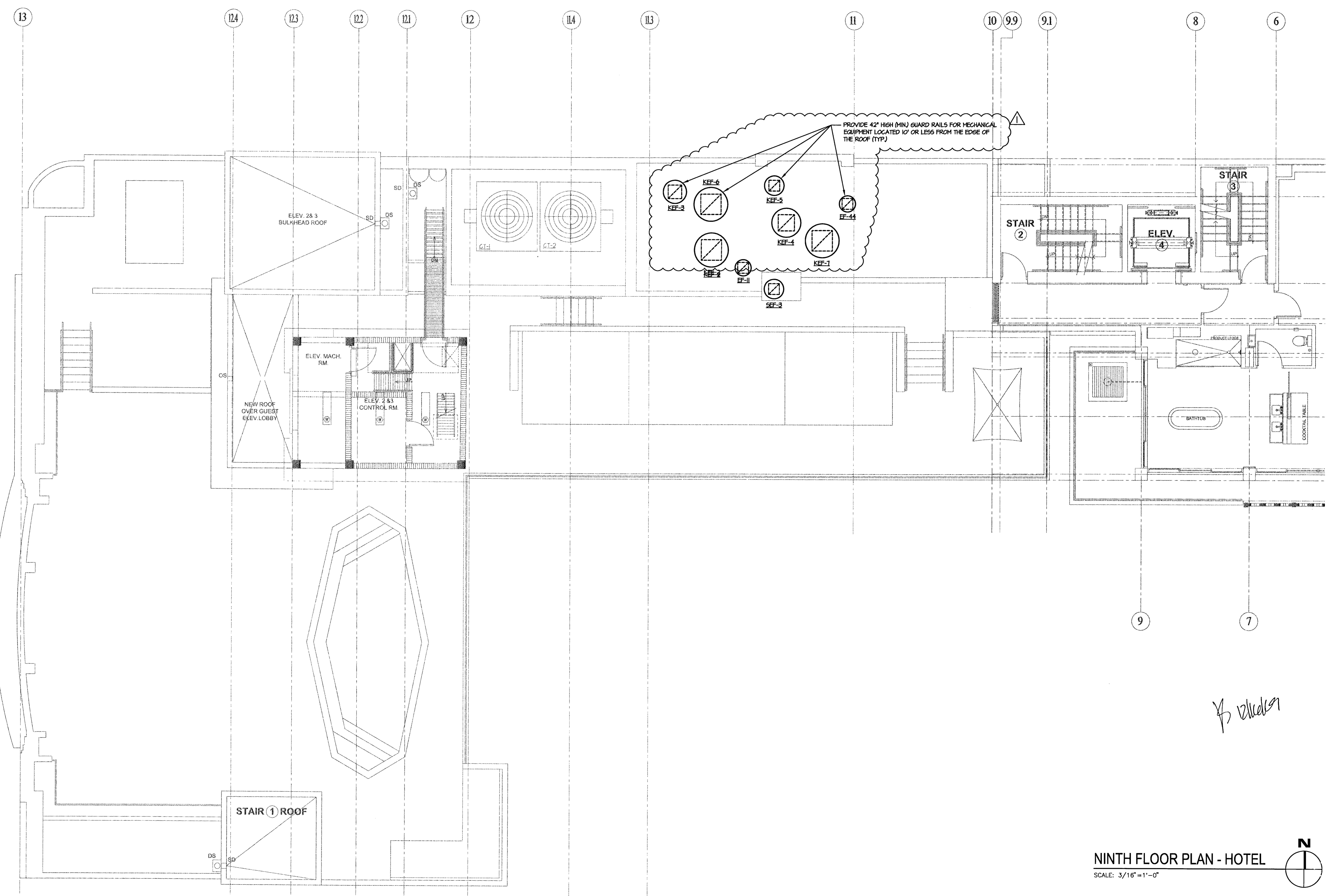
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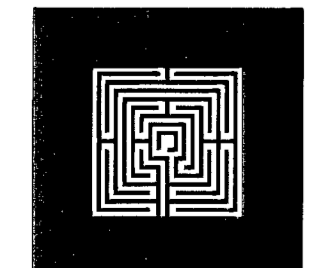
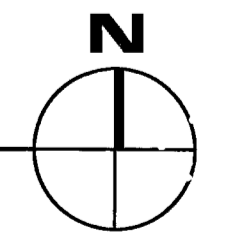
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B. Walker

NINTH FLOOR PLAN - HOTEL
 SCALE: 3/16" = 1'-0"



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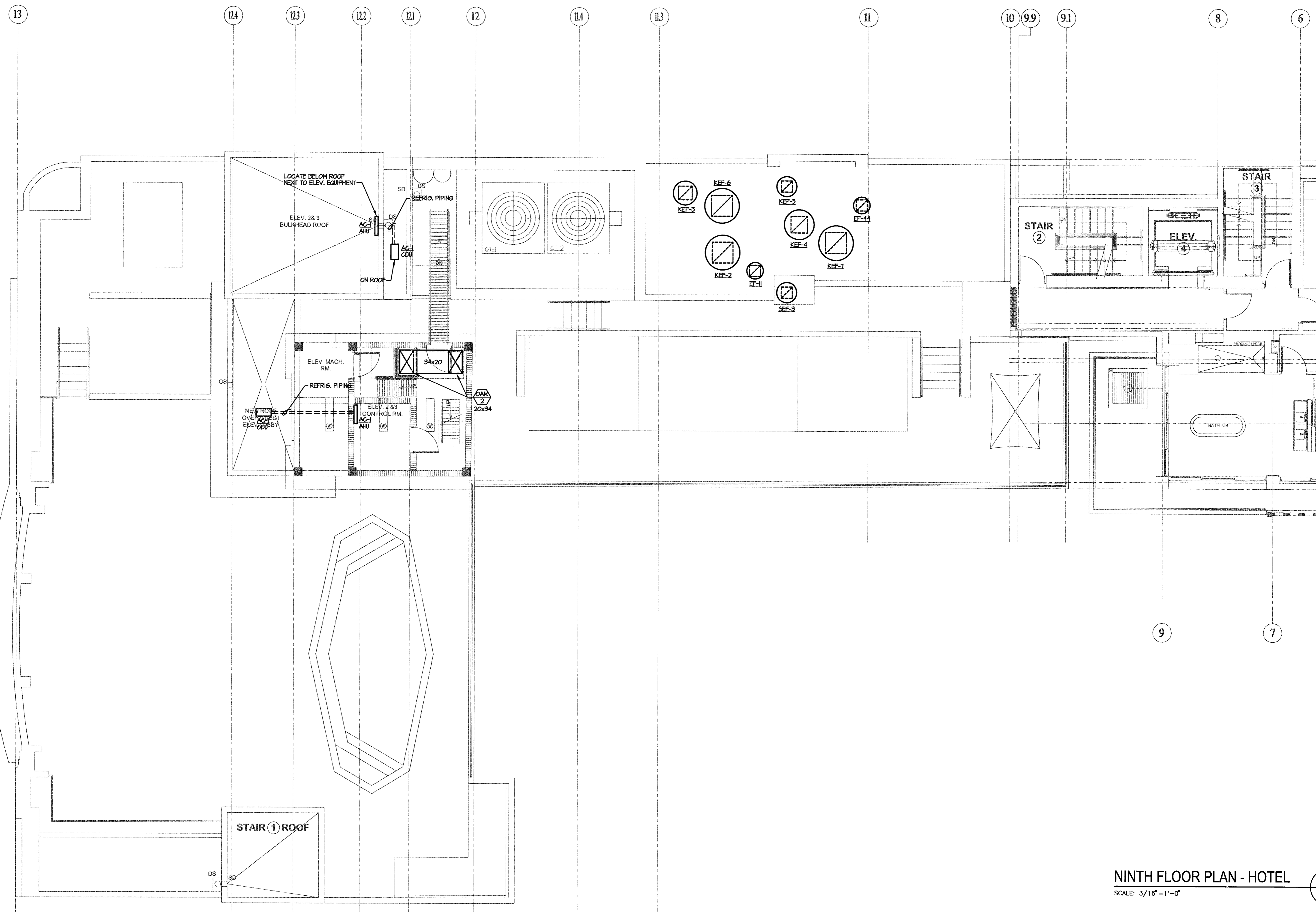
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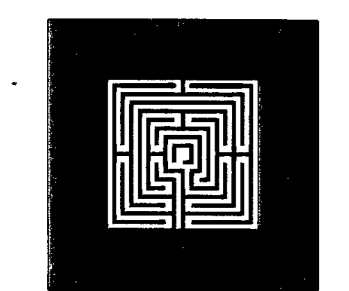
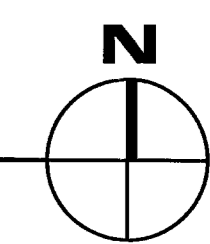
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1ST & 7TH FLOOR KITCHENS
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NINTH FLOOR PLAN - HOTEL
SCALE: 3/16"=1'-0"



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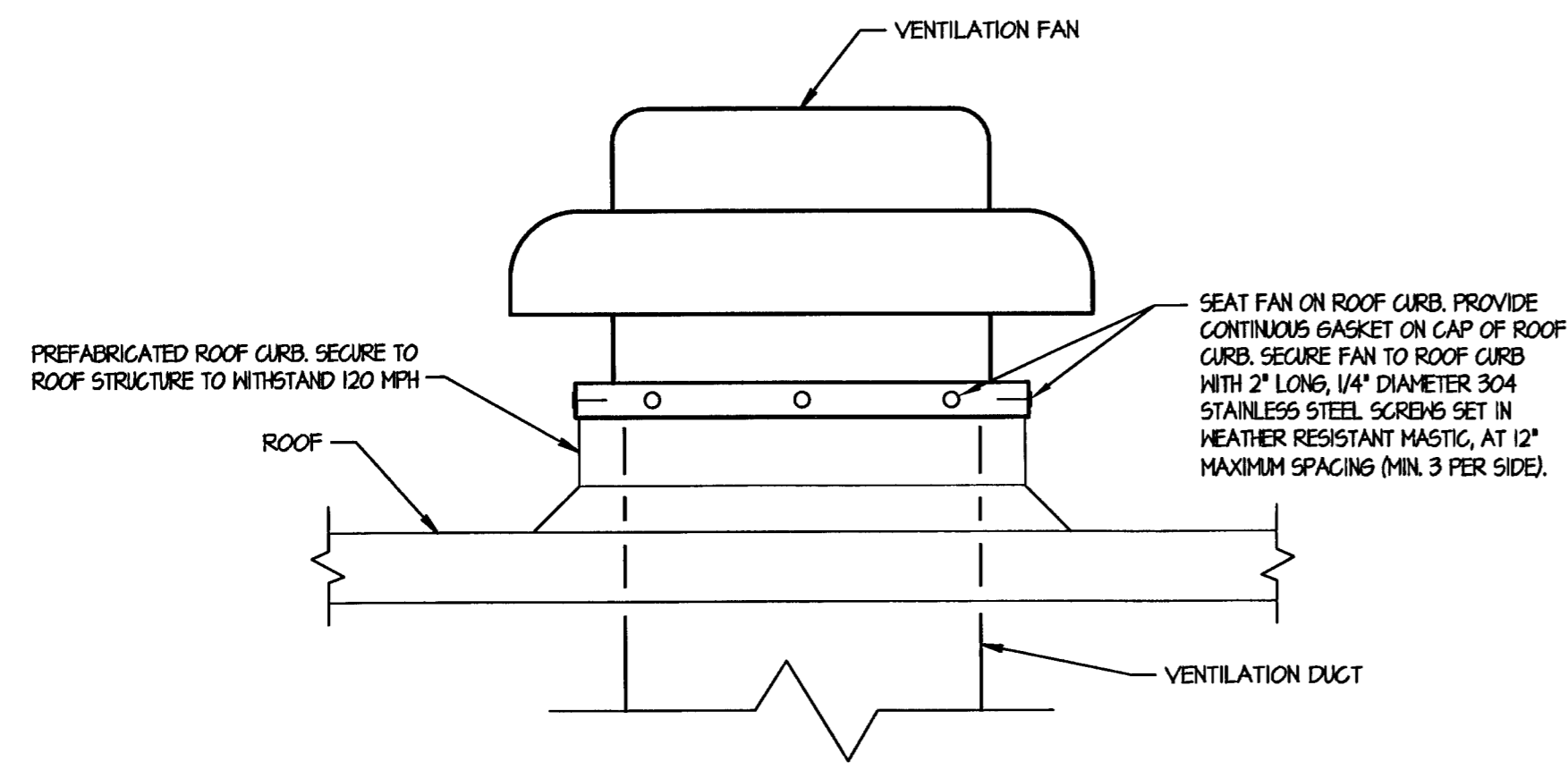
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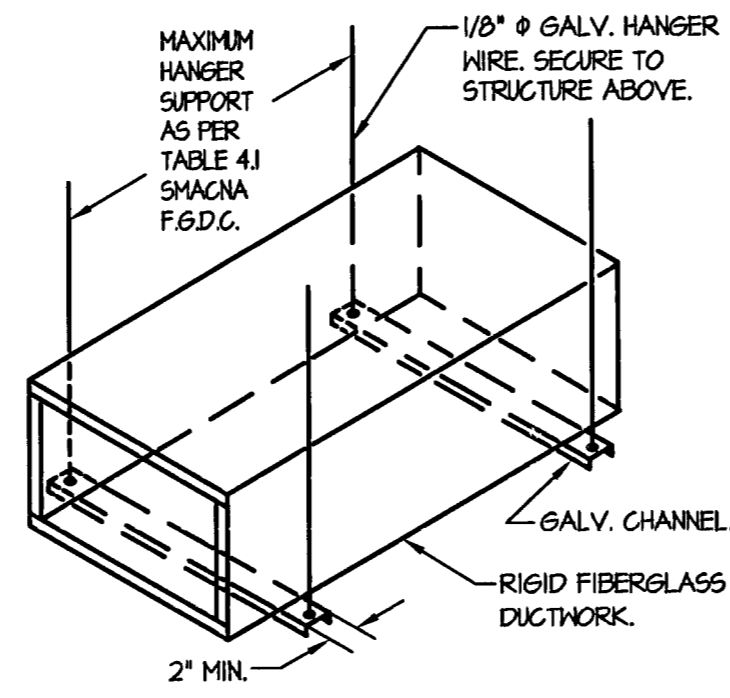
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1ST & 7TH FLOOR KITCHENS
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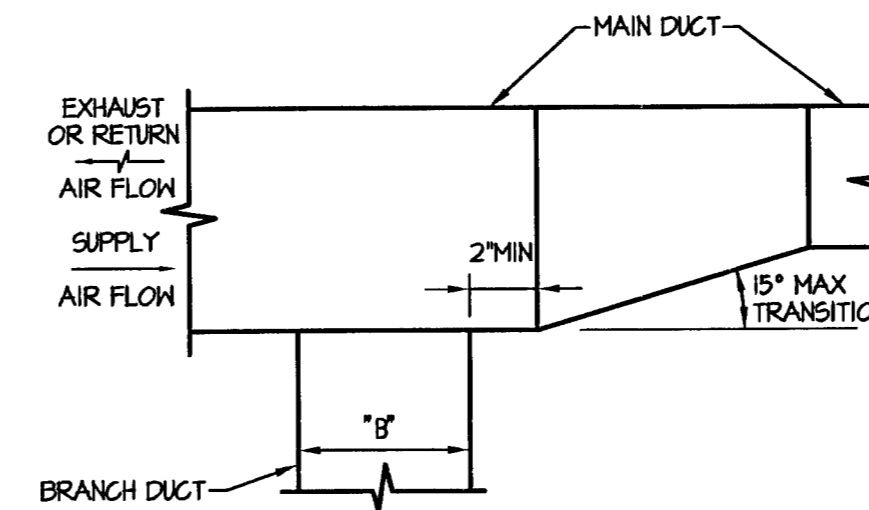
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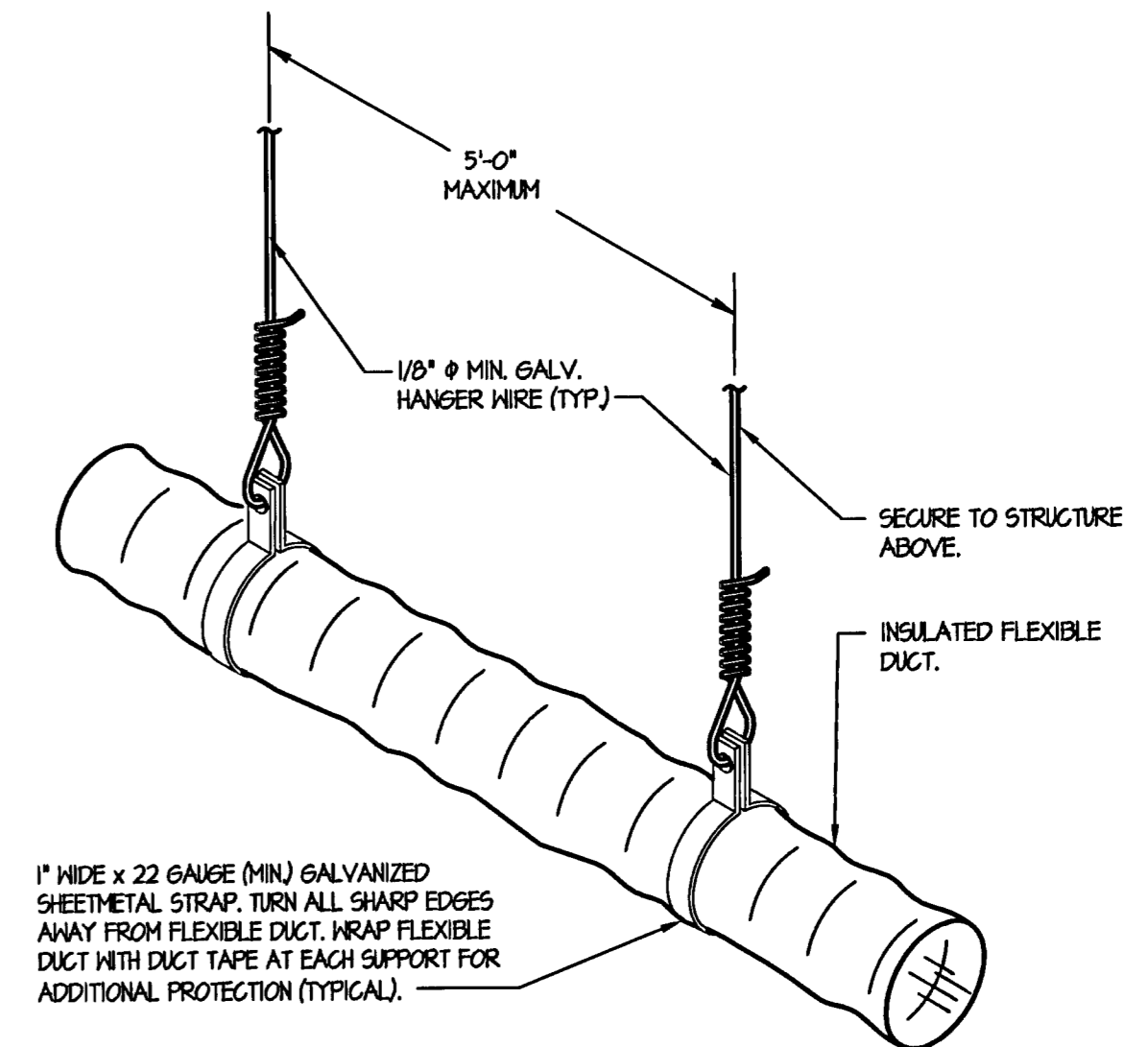
ROOF MOUNTED VENTILATION FAN DETAIL
N.T.S.



RIGID DUCTWORK HANGING DETAIL
N.T.S.

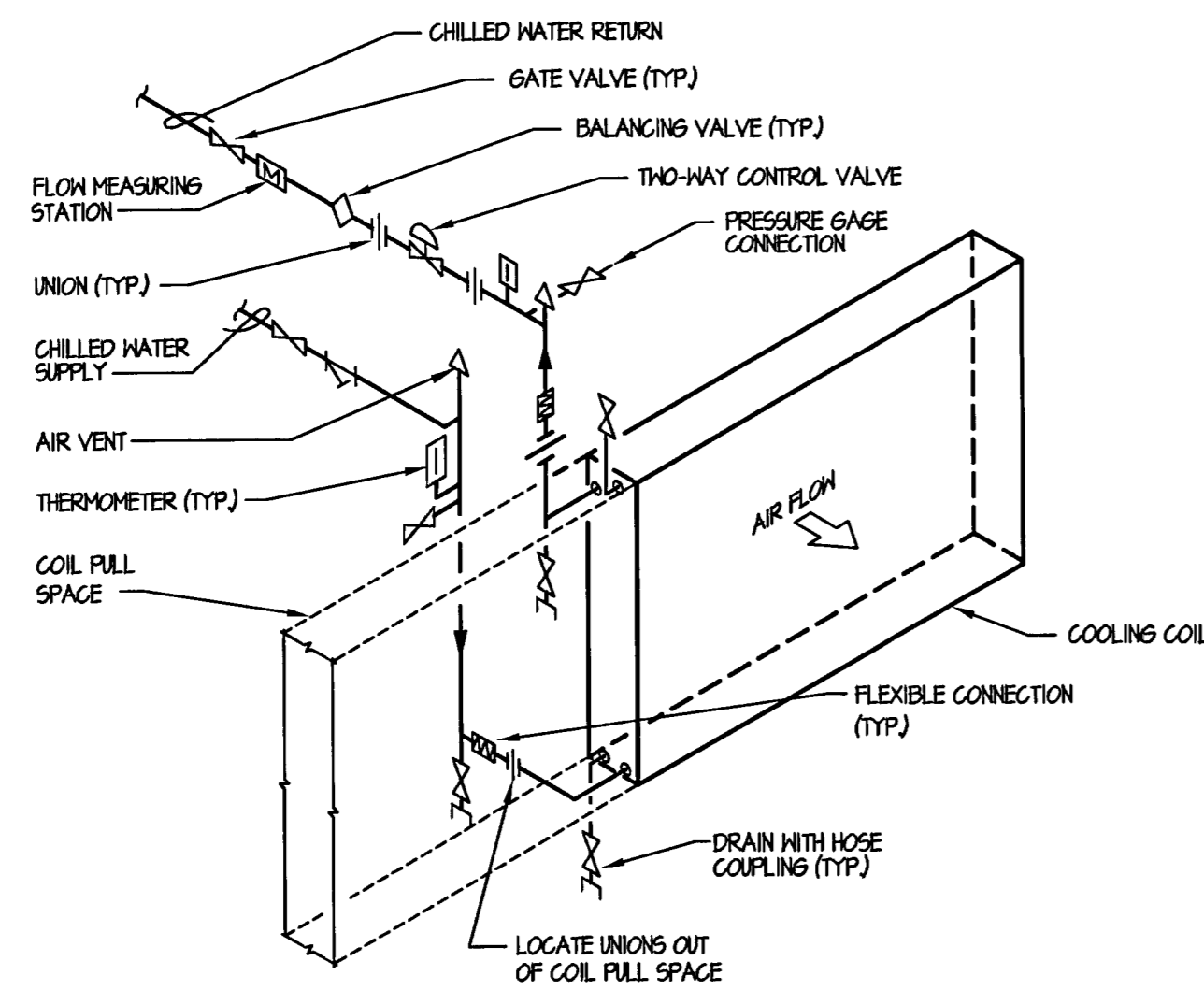


TYPICAL DUCT CONNECTION DETAIL
N.T.S.



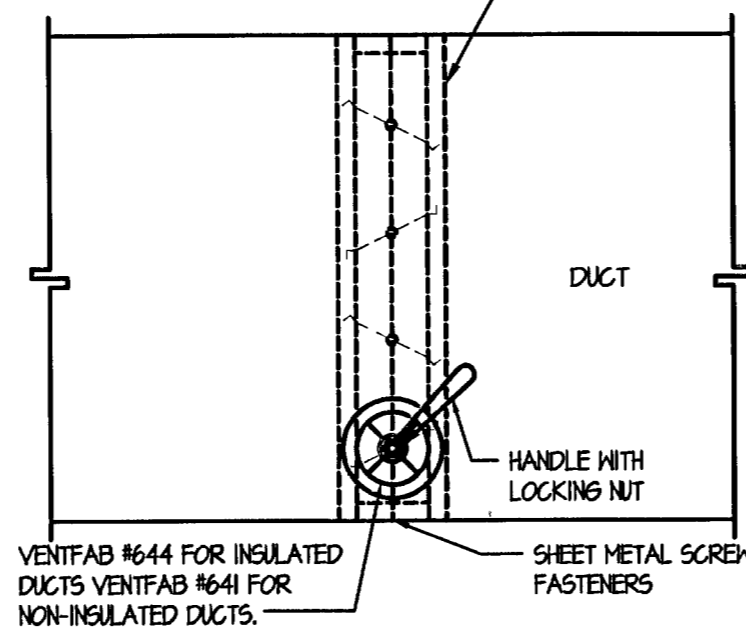
1" WIDE x 22 GAUGE (MIN) GALVANIZED SHEETMETAL STRAP, TURN ALL SHARP EDGES AWAY FROM FLEXIBLE DUCT. WRAP FLEXIBLE DUCT WITH DUCT TAPE AT EACH SUPPORT FOR ADDITIONAL PROTECTION (TYPICAL).

FLEXIBLE DUCT HANGING DETAIL
N.T.S.



TYPICAL CHILLED WATER COIL CONNECTION
N.T.S.

OPPOSED BLADE BALANCING DAMPER WITH CONCEALED LINKAGE, GALVANIZED CONSTRUCTION, MANUFACTURED BY RUSKIN MD-35. NOTE: SINGLE BLADE MD-35 DAMPER MAY BE USED ON DUCTS WITH VERTICAL DIMENSION OF 10" OR SMALLER.

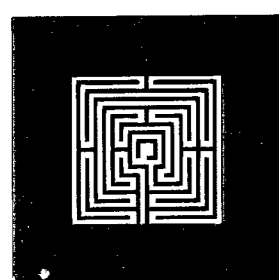


DUCT VOLUME DAMPER DETAIL
N.T.S.

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SECTIONS AND DETAILS

SCALE: AS SHOWN



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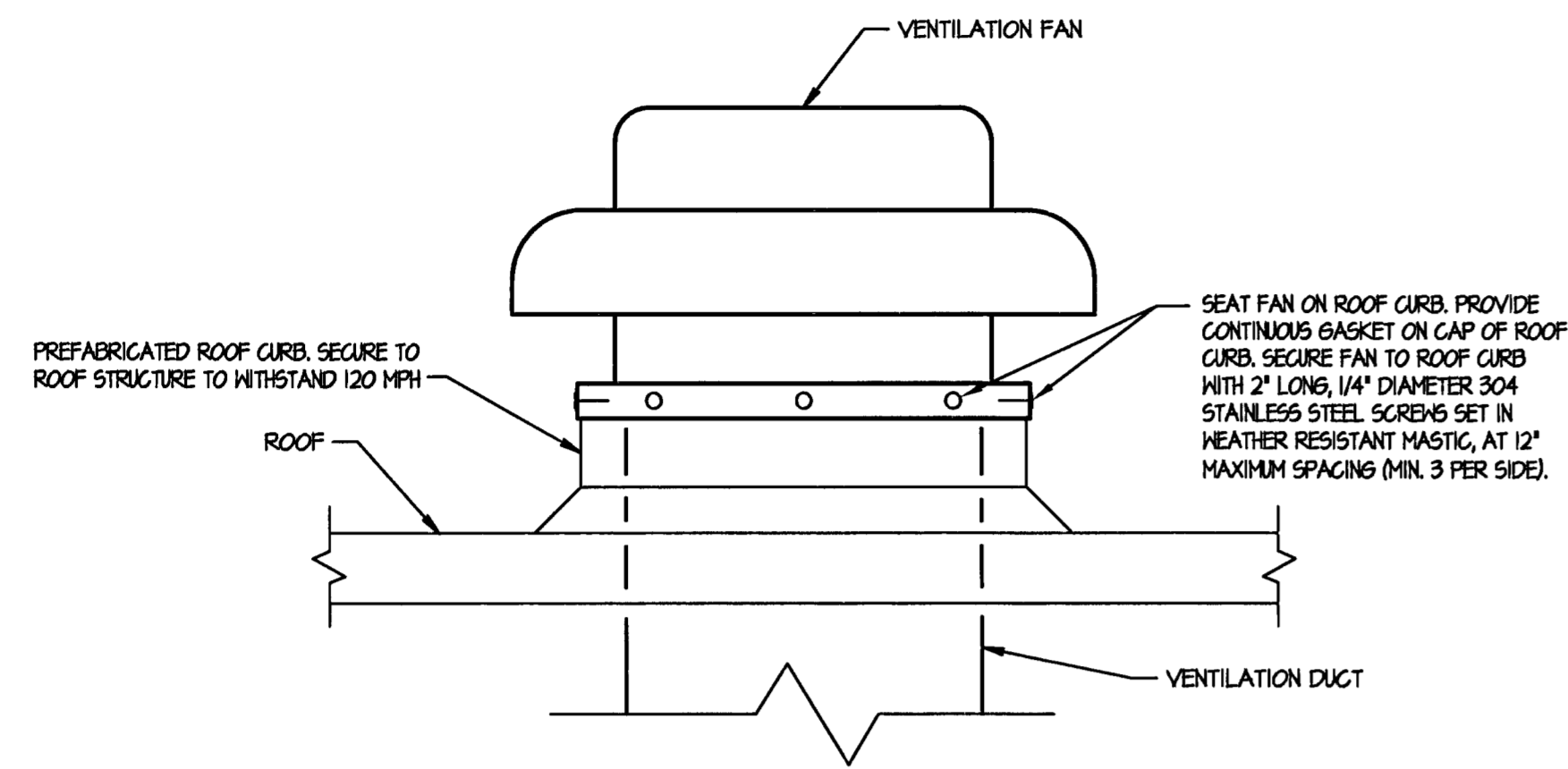
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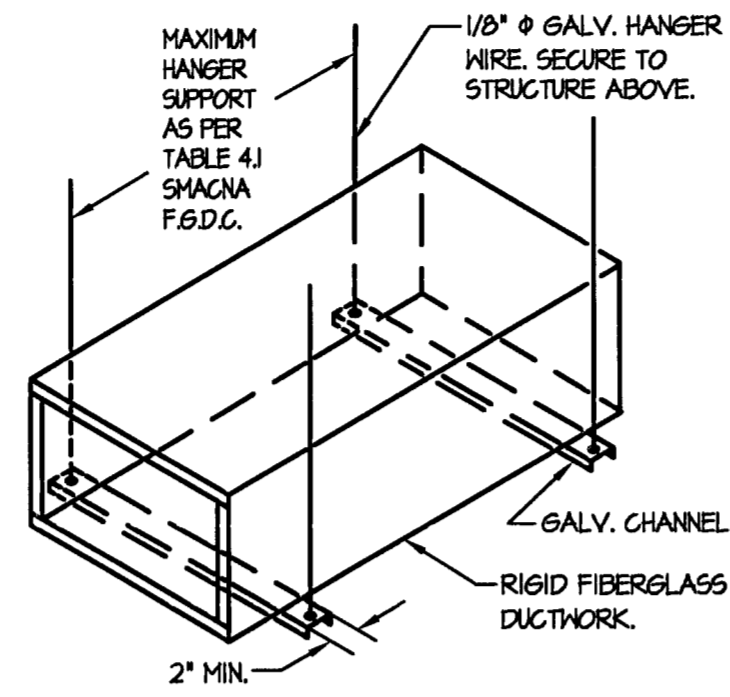
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1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

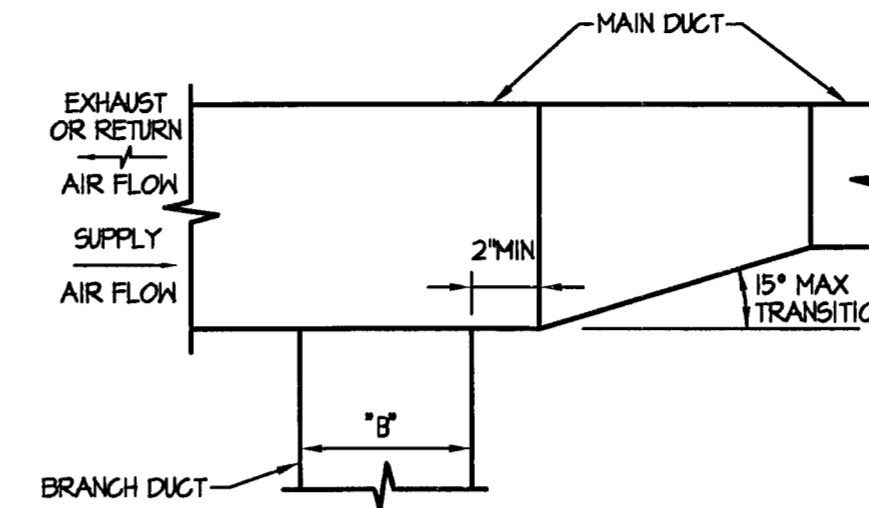
SECTIONS AND DETAILS
M-2.01.1K
09.15.2009



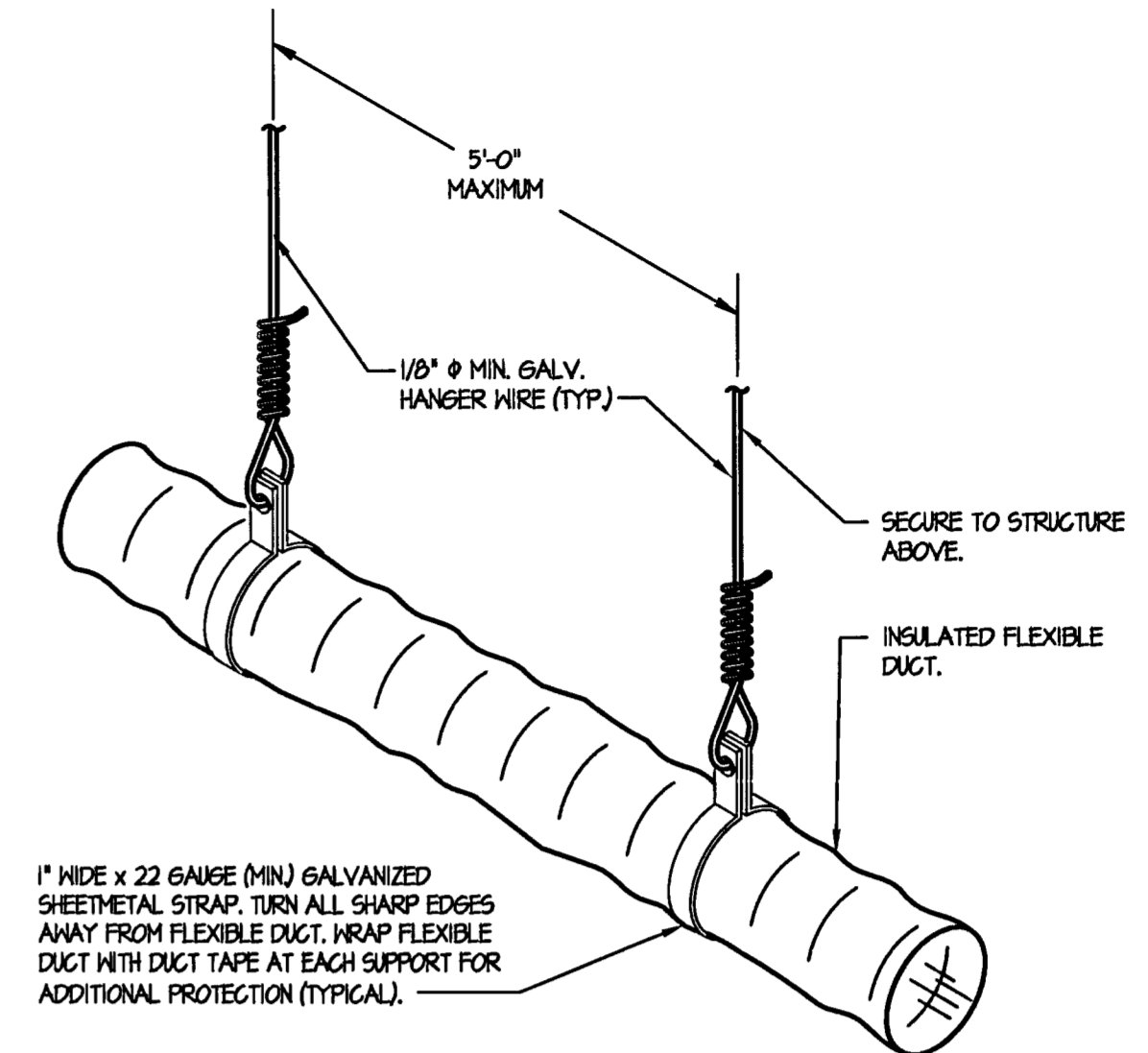
ROOF MOUNTED VENTILATION FAN DETAIL
N.T.S.



RIGID DUCTWORK HANGING DETAIL
N.T.S.

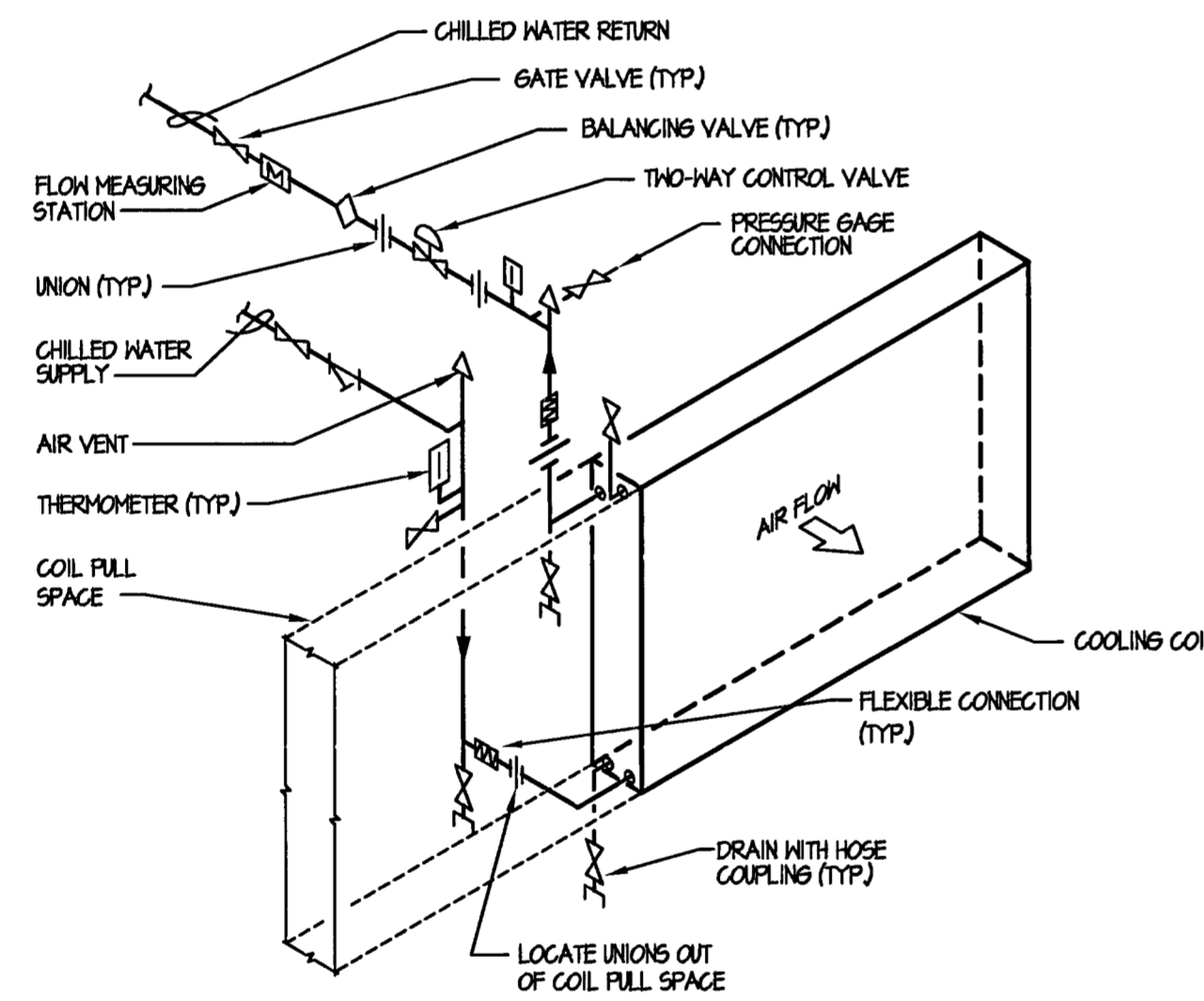


TYPICAL DUCT CONNECTION DETAIL
N.T.S.



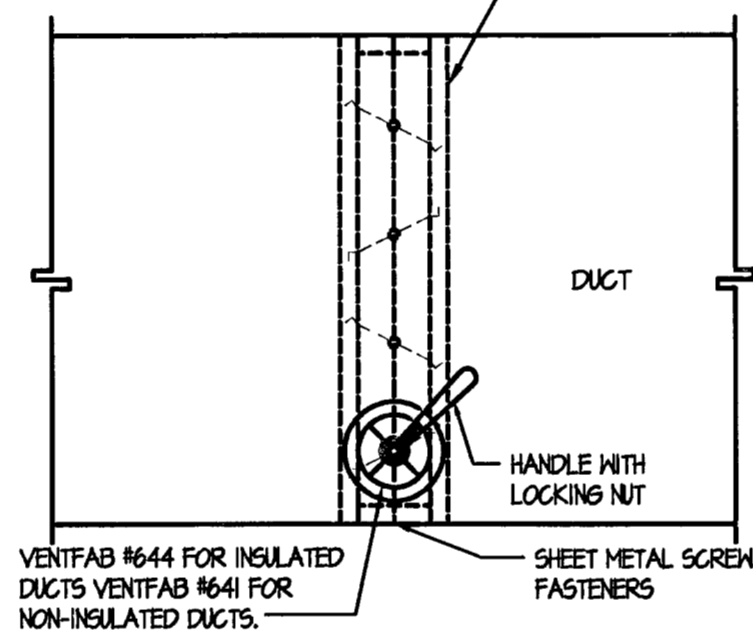
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FLEXIBLE DUCT HANGING DETAIL
N.T.S.



TYPICAL CHILLED WATER COIL CONNECTION
N.T.S.

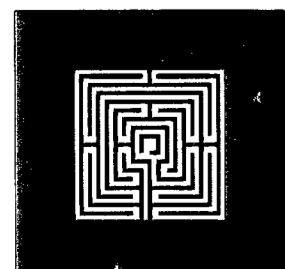
OPPOSED BLADE BALANCING DAMPER WITH CONCEALED LINKAGE, GALVANIZED CONSTRUCTION, MANUFACTURED BY RUKIN RMD-35. NOTE: SINGLE BLADE PD-35 DAMPER MAY BE USED ON DUCTS WITH VERTICAL DIMENSION OF 10" OR SMALLER.



DUCT VOLUME DAMPER DETAIL
N.T.S.

SECTIONS AND DETAILS

SCALE: AS SHOWN



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SOHO BEACH HOUSE

4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05035

1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

SECTIONS AND DETAILS

M-2.01.1K

09.15.2009

AIR HANDLING UNIT SCHEDULE		
UNIT NUMBER	AHU-5 (*)	AHU-6
LOCATION	MECH. ROOM 200-07	MECH. ROOM TTH-02
AREA SERVED	KITCHEN (FIRST FLOOR)	KITCHEN (SEVENTH FLOOR)
DESIGN MANUFACTURER	TRANE	TRANE
MODEL No.	M-SERIES	M-SERIES
SIZE		10
TYPE	HORIZONTAL	HORIZONTAL
OPERATING WEIGHT (LBS)	5,100	1,715
FAN		
TOTAL AIR FLOW (CFM)	16,200	2,855
OUTSIDE AIR FLOW (CFM)	16,000	2,855
BRAKE HORSEPOWER (BHP)	15.8	4.2
E.S.P. (IN WG)	2.00	0.55
MOTOR HORSEPOWER (HP)	20.0	5.0
FAN MOTOR (RPM)	1800	1800
FAN TYPE & DIAMETER	25" - AF	15" FC
ELECTRICAL SERVICE (V/PH/Hz)	460/3/60	460/3/60
VARIABLE FREQUENCY DRIVE	YES	NO
STARTER FURNISHED BY:	MECH. CONTRACTOR	MECH. CONTRACTOR
COOLING COIL		
TOTAL COOLING LOAD (MBH)	1251.82	219.1
SENSIBLE LOAD (MBH)	643.99	111.4
WATER TEMP. ENT/LVG (°F)	45/55	45/55
CHILLED WATER FLOW (GPM)	244.50	44.0
MAX. WATER SIDE PRESS. DROP (FT. WTR)	20.00	6.3
ROWS OF COIL (MIN./FINS PER FT. MAX)	8/103	6/123
MAXIMUM FACE VELOCITY (FFM)	494	538
ENT. AIR TEMP. - DB/WB (°F)	90.7/76.9	91.0/77.0
LVG. AIR TEMP. - DB/WB (°F)	55.0/54.8	54.9/54.2
AIR SIDE PRESSURE DROP (IN. WG)	0.88	0.71
DUCT HEATING COIL		
TYPE	ELECTRICAL	ELECTRICAL
CAPACITY (MBH / KW)	430.1 / 130	81.9 / 24
STEPS	6	2
RE-HEAT COIL		
TYPE	HOT WATER	HOT WATER
CAPACITY (MBH)	240.5	42.5
HOT WATER FLOW (GPM)	30.0	30.0
FILTERS		
TYPE	MERV 7 - 30%	MERV 7 - 30%
THICKNESS	2"	2"

(*) AHU-5 IS FURNISHED WITH A 20-TON WATER TO WATER HEAT PUMP FOR RE-HEAT PURPOSES. SEE WATER TO WATER HEAT PUMP SCHEDULE.

WATER TO WATER HEAT PUMP				
	UNIT DESIGNATION	WWHP		
GENERAL	MANUFACTURER	TRANE		
	MODEL NUMBER	EXA4 2404		
	NOMINAL CAPACITY (TONS)	20		
	TOTAL CAPACITY (MBH)	240.5		
	HEAT OF ABSORPTION (MBH)	154.5		
	POWER (KW)	23.72		
	EFFICIENCY RATIO (COP)	2.91		
	SOURCE SIDE	WATER FLOW RATE (GPM)	55.0	
		ENTERING WATER TEMPERATURE (°F)	55.0	
		LEAVING WATER TEMPERATURE (°F)	49.2	
WATER PRESSURE DROP (FT. WTR.)		4.6		
LOAD SIDE		WATER FLOW RATE (GPM)	30.0	
		ENTERING WATER TEMPERATURE (°F)	120.0	
		LEAVING WATER TEMPERATURE (°F)	136.2	
		WATER PRESSURE DROP (FT. WTR.)	2.4	
		ELECTRICAL	NUMBER OF COMPRESSORS	2
			COMPRESSOR RLA - EACH (AMPS)	14.1
	ELECTRICAL SERVICE (VOLT/PH/Hz)		460/3/60	
	COMPRESSOR LRA - EACH (AMPS)		112.0	
	MINIMUM CIRCUIT AMPACITY (AMPS)		31.7	
	MAXIMUM FUSE SIZE (AMPS)		45	

PUMP SCHEDULE													
UNIT NO.	SERVICE	FLOW RATE (GPM)	TDH (FT. WG)	MAX. NPSHR (FT)	SPEED (RPM)	VFD	EFF. AT DESIGN FLOW (%)	MANUFACTURER	MODEL NO.	BHP	MOTOR SIZE (HP)	ELECT. SERVICE (VOLT/PH/Hz)	WEIGHT (LBS)
P-1	REHEAT SYSTEM (AHU-5)	30	20	5.9	1,750	NO	49.1	BELL & GOSSETT	1x1x5-1/4	0.29	1/2	460/3/60	---
P-2	REHEAT SYSTEM (AHU-5)	55	20	7.6	1,750	NO	57.2	BELL & GOSSETT	1-1/4x1-1/4x5-1/4	0.48	3/4	460/3/60	---
P-3	REHEAT SYSTEM (AHU-6)	30	20	5.9	1,750	NO	49.1	BELL & GOSSETT	1x1x5-1/4	0.29	1/2	460/3/60	---

AIR DISTRIBUTION SCHEDULE									
SYMBOL	TYPE	NOMINAL SIZE	BLOW PATTERN	AIR FLOW (CFM)	MATERIAL	DAMPERS	BORDER	MANUF.	MODEL
(A)	S/A LINEAR DIFFUSER	AS SHOWN	ADJ.	AS SHOWN	ALUM.	NO	TYPE IA	TITUS	ML-34
(B)	S/A ROUND DIFFUSER (TYPE I)	AS SHOWN	360 DEG.	AS SHOWN	ALUM.	NO	---	TITUS	TMRA-AA
(C)	S/A DIFFUSER MULTI-BLADE FACE	AS SHOWN	AS SHOWN	AS SHOWN	ALUM.	YES (*)	TYPE I	TITUS	TDC-AA
(D)	S/A REGISTER MULTI-BLADE FACE	AS SHOWN	---	AS SHOWN	ALUM.	YES (*)	TYPE I	TITUS	301-FL
(E)	R/A OR E/A GRILLE MULTI-BLADE FACE	AS SHOWN	---	---	ALUM.	NO	TYPE I	TITUS	3FL
(F)	R/A LINEAR GRILLE	AS SHOWN	---	---	ALUM.	NO	TYPE IA	TITUS	MLR-34
(G)	R/A GRILLE MULTI-BLADE FACE	AS SHOWN	---	---	ALUM.	YES (*)	TYPE I	TITUS	3FL
(H)	S/A ML LINEAR REGISTER	AS SHOWN	---	AS SHOWN	ALUM.	AG-35	TYPE 5	TITUS	GT-581 (15 DEG)
(I)	S/A REGISTER MULTI-BLADE, DUAL DEFL.	AS SHOWN	---	AS SHOWN	ALUM.	NO	TYPE I	TITUS	272FL
(J)	R/A MULTI-BLADE FACE, FILTER GRILLE	AS SHOWN	---	---	ALUM.	NO	TYPE I	TITUS	35OFF1
(K)	S/A DIFFUSER MULTI-BLADE FACE	24"x24"	AS SHOWN	AS SHOWN	ALUM.	YES (*)	TYPE I	TITUS	TDC-AA
(L)	R/A GRILLE EGG-GRATE FACE	AS SHOWN	---	---	ALUM.	NO	TYPE I	TITUS	50F 1'x1'x1" CORE
(M)	S/A DIFFUSER PERFORATED FACE	24"x24"	4 WAY	AS SHOWN	STEEL	NO	TYPE 3	TITUS	PAS
(N)	S/A REGISTER MULTI-BLADE, DUAL DEFL.	AS SHOWN	---	AS SHOWN	ALUM.	YES	TYPE I	TITUS	272FL

(*) VOLUME DAMPER TO BE OPERATED THROUGH THE FACE OF THE GRILLE WITH SPECIAL TOOL.

FAN SCHEDULE																
UNIT NO.	TYPE	AREA SERVED	FAN PERFORMANCE				MOTOR			ACCESSORIES						
			AIR FLOW (CFM)	BHP	EXT. SP (IN. WG)	FAN SPEED (RPM)	DRIVE TYPE	SIZE (HP)	ELECT. SERVICE (VOLT/PH/Hz)	VFD	BACK DRAFT DAMPER	ROOF CURB	MANUFACTURER	MODEL	MAXIMUM SONES	WEIGHT (LBS)
SEF-3	CENTRIFUGAL - UPBLAST	HOTEL - CORR 06/LOUNGE/KITCHEN	1,200/2,500	0.99	1.0	1,700	BELT	1	208/1/60	YES	NO	YES	GREENHECK	S-CUBE-161HP-10	20	87
KEF-1	CENTRIFUGAL - UPBLAST	TTH FLOOR KITCHEN - DISHWASHER	500	0.13	0.75	1,170	BELT	1/4	120/1/60	NO	NO	YES (*)	GREENHECK	H-CUBE-141HP-4	9.1	84
KEF-2	CENTRIFUGAL - UPBLAST	1ST FLOOR KITCHEN - HOOD I-013	4,050	3.16	3.00	1,442	BELT	5	208/1/60	NO	NO	YES (*)	GREENHECK	H-CUBE-300XP-50	21.5	313
KEF-3	CENTRIFUGAL - UPBLAST	TTH FLOOR KITCHEN - HOOD	2,430	0.99	1.25	1,190	BELT	1	208/1/60	NO	NO	YES (*)	GREENHECK	H-CUBE-180-10	15.1	126
KEF-4	CENTRIFUGAL - UPBLAST	1ST FLOOR KITCHEN - HOOD I-015	2,825	2.95	3.20	2,124	BELT	3	208/1/60	NO	NO	YES (*)	GREENHECK	H-CUBE-240XP-30	24.4	175
KEF-5	CENTRIFUGAL - UPBLAST	1ST FLOOR KITCHEN - DISHWASHER	600	0.75	2.50	2,205	BELT	1	208/1/60	NO	NO	YES (*)	GREENHECK	H-CUBE-161XP-10	16.7	87
KEF-6	CENTRIFUGAL - UPBLAST	1ST FLOOR KITCHEN - HOODS I-016 AND I-004	4,045	4.36	4.00	1,628	BELT	5	208/1/60	NO	NO	YES (*)	GREENHECK	H-CUBE-300XP-50	26.1	313
KEF-7	CENTRIFUGAL - UPBLAST	1ST FLR KITCHEN - HOODS I-048L AND I-048R	4,290	3.36	3.00	1,466	BELT	5	208/1/60	NO	NO	YES (*)	GREENHECK	H-CUBE-300XP-50	22.2	313

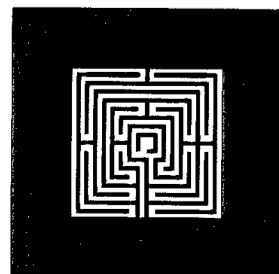
CONTROL SEQUENCE OF OPERATION

AIR HANDLING UNIT AHU-5:

- GENERAL:** A DIFFERENTIAL PRESSURE CONTROLLER, WITH SENSORS OUTDOORS AND IN THE FIRST FLOOR KITCHEN AREA, SHALL MODULATE THE VARIABLE FREQUENCY DRIVE AND DELIVER SUPPLY AIR TO THE CONDITIONED SPACE TO KEEP INDOOR PRESSURE 1/8" (ADJUSTABLE) HIGHER THAN OUTDOOR PRESSURE.
- COOLING MODE:** THE THREE-WAY CHILLED WATER VALVE SHALL BE MODULATED TO MAINTAIN A CONSTANT SUPPLY AIR TEMPERATURE OF 55 DEGREES F. IF THE CONDITIONED SPACE IS OVER COOLED, THE "WATER TO WATER HEAT PUMP" SYSTEM SHALL BE ENERGIZED AND CYCLED TO RE-HEAT SUPPLY AIR TO SATISFY THE THERMOSTAT'S SET POINT.
- HEATING MODE:** THE CHILLED WATER VALVE SHALL BE CLOSED. THE SPACE THERMOSTAT SHALL CYCLE THE STEPS OF THE ELECTRIC HEATING COIL TO SATISFY ITS HEATING SET POINT.

AIR HANDLING UNIT AHU-6:

- GENERAL:** A DIFFERENTIAL PRESSURE CONTROLLER, WITH SENSORS OUTDOORS AND IN THE SEVENTH FLOOR KITCHEN AREA, SHALL MODULATE THE VARIABLE FREQUENCY DRIVE AND DELIVER SUPPLY AIR TO THE CONDITIONED SPACE TO KEEP INDOOR PRESSURE 1/8" (ADJUSTABLE) HIGHER THAN OUTDOOR PRESSURE.
- COOLING MODE:** THE THREE-WAY CHILLED WATER VALVE SHALL BE MODULATED TO MAINTAIN A CONSTANT SUPPLY AIR TEMPERATURE OF 55 DEGREES F. IF THE CONDITIONED SPACE IS OVER COOLED, CONDENSER WATER PUMP P-3 SHALL BE ENERGIZED, AND THE THREE-WAY HOT WATER CONTROL VALVE SHALL MODULATE TO RE-HEAT S/A AND SATISFY THE THERMOSTAT'S SET POINT.
- HEATING MODE:** THE CHILLED WATER AND HOT WATER RE-HEAT COILS SHALL BE CLOSED. THE SPACE THERMOSTAT SHALL CYCLE THE STEPS OF THE ELECTRIC HEATING COIL TO SATISFY ITS HEATING SET POINT.



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REVISIONS

REVISIONS

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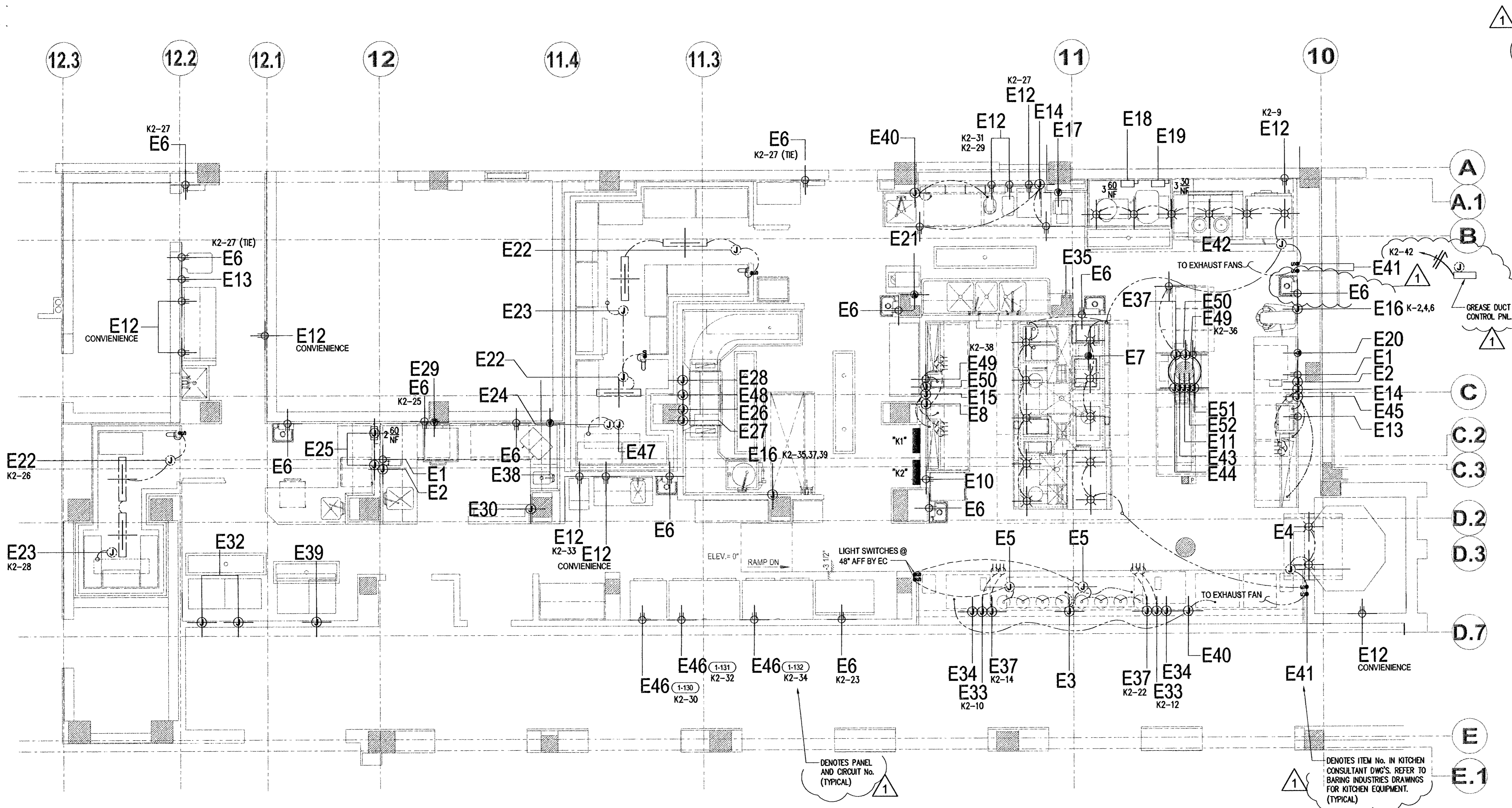


SOHO BEACH HOUSE

4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05035

1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

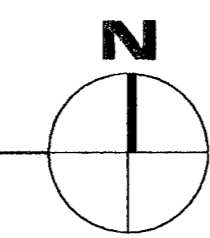
HYAC SCHEDULES
M-5.01K
09.15.2009



ITEM No.	ELECTRICAL ROUGH-IN SCHEDULE	PANEL AND CIRCUIT No.
E1	DUPLEX RECEPTACLE ON DEDICATED CIRCUIT W/ISOLATED GROUND - 120V/1PH/20A SERVICE - NEMA 5-20R +50" AFF	K-1
E2	EMPTY JUNCTION BOX & CONDUIT F/CAT5e COMMUNICATION/DATA CABLE - +50" AFF - VERIFY REQUIREMENTS WITH SUPPLIER	
E3	JUNCTION BOX - 120V/1PH/15A SERVICE +18" AFF - BRANCH & CONNECT TO (2) HEATED PLATE CABINETS	K-3
E4	JUNCTION BOX - 120V/1PH/10A SERVICE DOWN FROM ABOVE TO TOP OF EXHAUST HOOD - CONNECT & INTER-WIRE TO LIGHT FIXTURES & CAPTURE JET FANS AS REQUIRED	K-5
E5	JUNCTION BOX - 120V/1PH/15A SERVICE ABOVE FINISHED CEILING - PROVIDE WALL SWITCH @ +48" AFF - INTERWIRE & CONNECT TO EQUIPMENT & WALL SWITCH AS REQUIRED	K-7
E6	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +18" AFF	K-9
E7	CONDUIT STUB - 120-208V/3PH/200A SERVICE STUB @ +9" AFF - CONNECT TO CIRCUIT BREAKER PANEL ON EQUIPMENT - SEE SHOP DRAWING FOR PANEL SCHEDULE	NLDP2-7
E8	MULTI-CIRCUIT JUNCTION BOX - (4) 120V/1PH/20A SERVICES +18" AFF - CONNECT TO CONVENIENCE DUPLEX RECEPTACLES - NEMA 5-20R GFCI - IN EQUIPMENT	K-13,15,17,19
E9	NOT USED	
E10	(2) DUPLEX RECEPTACLES - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI (1) @ +36" & (1) @ +72" AFF	K-23 K-41
E11	MULTI-CIRCUIT JUNCTION BOX - (2) 120V/1PH/20A SERVICES ABOVE FINISHED CEILING - WIRE DOWN UTILITY SERVICE CHASE - CONNECT TO CONVENIENCE DUPLEX RECEPTACLES - NEMA 5-20R GFCI MOUNTED IN EQUIPMENT	K-25,27
E12	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +50" AFF	K-29
E13	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +66" AFF	K-31
E14	MULTI-CIRCUIT JUNCTION BOX - (2) 120V/1PH/20A SERVICES +18" AFF - CONNECT TO CONVENIENCE DUPLEX RECEPTACLES - NEMA 5-20R GFCI - IN EQUIPMENT	K-33,35
E15	JUNCTION BOX - 120V/1PH/15A SERVICES +18" AFF - BRANCH & CONNECT TO (2) REFRIGERATED BASES & (2) REFRIGERATED INGREDIENT RAILS AS REQUIRED	K-37,39
E16	JUNCTION BOX - 208V/3PH/10A SERVICE +18" AFF - CONNECT TO EQUIPMENT	
E17	SINGLE RECEPTACLE - 208V/3PH/15A SERVICE - NEMA 15-15R +50" AFF	K-8,10,12
E18	JUNCTION BOX - 208V/3PH/40A SERVICE +50" AFF - CONNECT TO EQUIPMENT	K-14,16,18
E19	JUNCTION BOX - 208V/3PH/20A SERVICE +50" AFF - CONNECT TO EQUIPMENT	K-20,22,24
E20	SINGLE RECEPTACLE - 208V/1PH/20A SERVICE - NEMA L6-20R +18" AFF	K-26,28
E21	SINGLE RECEPTACLE - 208V/1PH/20A SERVICE - NEMA 6-20R +50" AFF	K-30,32
E22	JUNCTION BOX - 120V/1PH/10A SERVICE - DOWN FROM ABOVE TO TOP OF WALK-IN COOLER BOX - CONNECT TO JUNCTION BOX AND INTER-WIRE TO LIGHT FIXTURES, DOOR HEATER, & TEMPERATURE ALARM AS REQUIRED	K-34
E23	JUNCTION BOX - 120V/1PH/10A SERVICE - DOWN FROM ABOVE TO TOP OF WALK-IN BOX - CONNECT TO EVAPORATOR INSIDE WALK-IN BOX	K-36
E24	JUNCTION BOX, CONDUIT & WIRING BETWEEN EVAPORATOR & REMOTE REFRIGERATION RACK UNIT F/POWER FEED & CONTROL WIRING - STUB @ TOP OF WALK-IN BOX & @ REMOTE REFRIGERATION RACK - CONNECT TO EQUIPMENT AS REQUIRED	
E25	JUNCTION BOX - 120-208V/1PH/50A SERVICE +18" AFF - CONNECT TO EQUIPMENT	K-38,40
E26	JUNCTION BOX - 480V/3PH/40A SERVICE +60" AFF - CONNECT TO EQUIPMENT	NH2A-30,32,34 □ 1 3 60 NF
E27	JUNCTION BOX - 480V/3PH/50A SERVICE +60" AFF - CONNECT TO BOOSTER HEATER ON TOP OF EQUIPMENT	NH2A-36,38,40 □ 1 3 60 NF
E28	JUNCTION BOX - 208V/1PH/10A SERVICE +18" AFF - CONNECT TO EQUIPMENT	K2-24 □ 1 3 30 NF
E29	SINGLE RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 6-50R +50" AFF	K2-41
E30	JUNCTION BOX - 120V/1PH/20A SERVICE +72" AFF - CONNECT TO EQUIPMENT	K2-24
E31	NOT USED	
E32	JUNCTION BOX - 208V/1PH/30A SERVICE +78" AFF - CONNECT TO EQUIPMENT	K2-6,8
E33	JUNCTION BOX - 120V/1PH/20A DEDICATED CIRCUIT W/ISOLATED GROUND +18" AFF - CONNECT TO DUPLEX RECEPTACLE MOUNTED IN EQUIPMENT	
E34	EMPTY JUNCTION BOX & CONDUIT F/CAT5e COMMUNICATION/DATA CABLE - +18" AFF - VERIFY REQUIREMENTS WITH SUPPLIER	
E35	EMPTY OCTAGON JUNCTION BOX F/FIRE PROTECTION SYSTEM REMOTE PULL STATION - +48" AFF W/SCREW HOLES @ 2 & 8 O'CLOCK POSITIONS - EXTEND 1/2" EMT CONDUIT FROM BOX TO 6" ABOVE FINISHED CEILING W/NO BENDS	
E36	NOT USED	
E37	JUNCTION BOX - 120V/1PH/20A SERVICE +18" AFF - CONNECT TO CONVENIENCE DUPLEX RECEPTACLE - NEMA 5-20R GFCI - MOUNTED IN EQUIPMENT	
E38	SINGLE RECEPTACLE - 208V/1PH/30A SERVICE - NEMA L6-30R +50" AFF	K2-18,20
E39	JUNCTION BOX - 120V/1PH/20A SERVICE +78" AFF - CONNECT TO EQUIPMENT	K2-16

FIRST FLOOR KITCHEN PLAN - ELECTRICAL

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

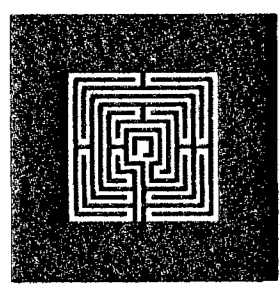


NOTE:
ALL 120V, 20A RECEPTACLES INSTALLED IN COMMERCIAL KITCHENS SHALL HAVE GFCI PROTECTION FOR PERSONNEL.

ELECTRICAL LEGEND

DISCONNECT SWITCH	SR	□
SINGLE RECEPTACLE, NEMA 5-20R	DR	○
DUPLEX RECEPTACLE, NEMA 5-20R	OR	○
QUADRUPLEX RECEPTACLE, NEMA 5-20R	SPR	○
SPECIAL RECEPTACLE, 208 OR 480	FR	○
FLOOR RECEPTACLE	JB	○
JUNCTION BOX	DC	○
DROP CORD OR CONDUIT	C	○
CONDUIT STUB	S	○
WALL SWITCH		○
RECEPTACLE ON EQUIPMENT		○
FIRE PROTECTION SYSTEM REMOTE PULL STATION		○
INCANDESCENT LIGHT FIXTURE		○
FLUORESCENT LIGHT FIXTURE		○
LOAD CENTER IN EQUIPMENT		○
BUILDING LOAD CENTER PANEL		○
POINT OF CONNECTION ON EQUIPMENT		○
ABOVE FINISHED FLOOR	AF	○
DROP FROM ABOVE	DFA	○
BRANCH TO CONNECTIONS	BTC	○
ELECTRICAL INTERCONNECTIONS		○

E40	JUNCTION BOX - 120V/1PH/10A SERVICE +18" AFF - BRANCH & CONNECT TO (2) REFRIGERATED BASES	K2-1
E41	LIGHT & FAN SWITCHES F/EXHAUST HOOD @ 48" AFF - INTERWIRE TO EXHAUST HOOD(S) & FAN(S) AS REQUIRED	
E42	JUNCTION BOX - 120V/1PH/20A SERVICE DOWN FROM ABOVE TO TOP OF EXHAUST HOOD - CONNECT & INTERWIRE TO LIGHT FIXTURES & CAPTURE JET FANS AS REQUIRED	K2-3
E43	JUNCTION BOX - 120V/1PH/10A SERVICE ABOVE FINISHED CEILING - WIRE DOWN UTILITY CHASE - BRANCH & CONNECT TO REFRIGERATED BASE & REFRIGERATED INGREDIENT RAIL AS REQUIRED	K2-5
E44	JUNCTION BOX - 120V/1PH/20A SERVICE ABOVE FINISHED CEILING - WIRE DOWN UTILITY CHASE & CONNECT TO EQUIPMENT	K2-7
E45	JUNCTION BOX - 120V/1PH/15A SERVICE +18" AFF - BRANCH & CONNECT TO REFRIGERATED BASE, FREEZER BASE & REFRIGERATED INGREDIENT RAIL AS REQUIRED	K2-15
E46	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +90" AFF	
E47	JUNCTION BOX, CONDUIT & POWER FEED WIRING BETWEEN DRAIN LINE HEATER & REMOTE REFRIGERATION RACK - STUB @ TOP OF WALK-IN BOX & @ REMOTE REFRIGERATION RACK - CONNECT TO EQUIPMENT AS REQUIRED	K2-17
E48	JUNCTION BOXES @ DISHMACHINE CONTROL PANEL (@+60" AFF) & EXHAUST FAN W/CONDUIT & WIRING F/VENT FAN CONTROL - EC TO CONNECT TO EQUIPMENT & INTERWIRE AS REQUIRED	K2-19
E49	DUPLEX RECEPTACLE ON DEDICATED CIRCUIT W/ISOLATED GROUND - 120V/1PH/20A SERVICE - NEMA 5-20R +66" AFF	
E50	EMPTY JUNCTION BOX & CONDUIT F/CAT5e COMMUNICATION/DATA CABLE - +66" AFF - VERIFY REQUIREMENTS WITH SUPPLIER	
E51	JUNCTION BOX ON DEDICATED CIRCUIT W/ISOLATED GROUND - 120V/1PH/20A SERVICE ABOVE FINISHED CEILING - WIRE DOWN UTILITY CHASE & CONNECT TO RECEPTACLE MOUNTED IN EQUIPMENT	K2-40
E52	EMPTY JUNCTION BOX & CONDUIT F/CAT5e COMMUNICATION/DATA CABLE ABOVE FINISHED CEILING - WIRE DOWN UTILITY CHASE - VERIFY REQUIREMENTS WITH SUPPLIER	



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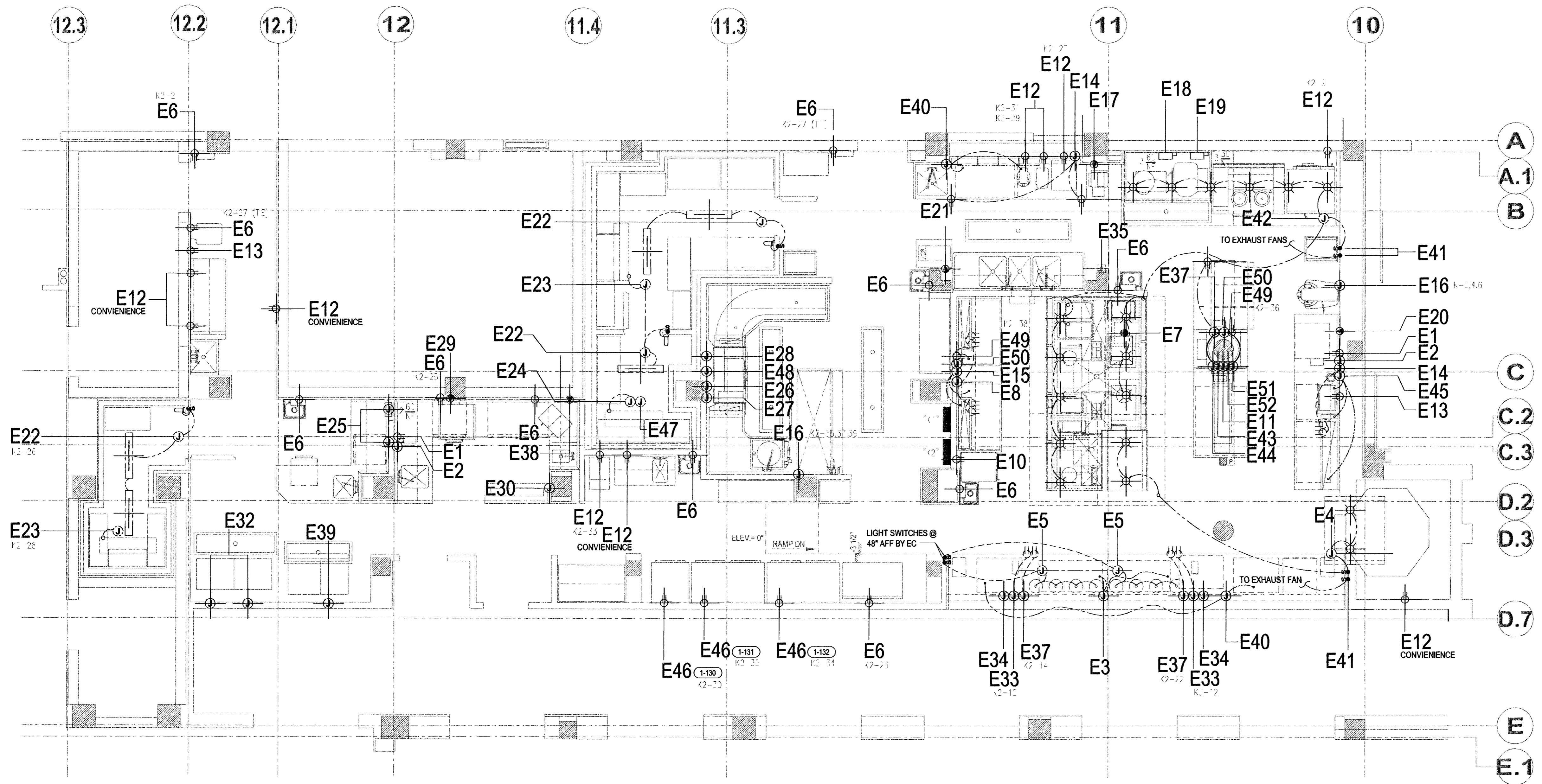
REVISIONS

REVISIONS
BLDG. DEPT. 10.08.09

VIDAL & ASSOCIATES INC.
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Electrical Plans Examiner
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JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

E-1
09.15.2009



ELECTRICAL ROUGH-IN SCHEDULE		PANEL AND CIRCUIT No.
E1	DUPLEX RECEPTACLE ON DEDICATED CIRCUIT W/ISOLATED GROUND - 120V/1PH/20A SERVICE - NEMA 5-20R +50" AFF	K-1
E2	EMPTY JUNCTION BOX & CONDUIT F/CATS6 COMMUNICATION/DATA CABLE - +50" AFF - VERIFY REQUIREMENTS WITH SUPPLIER	
E3	JUNCTION BOX - 120V/1PH/15A SERVICE +18" AFF - BRANCH & CONNECT TO (2) HEATED PLATE CABINETS	K-3
E4	JUNCTION BOX - 120V/1PH/10A SERVICE DOWN FROM ABOVE TO TOP OF EXHAUST HOOD - CONNECT & INTER-WIRE TO LIGHT FIXTURES & CAPTURE JET FANS AS REQUIRED	K-5
E5	JUNCTION BOX - 120V/1PH/15A SERVICE ABOVE FINISHED CEILING - PROVIDE WALL SWITCH @ +48" AFF - INTERWIRE & CONNECT TO EQUIPMENT & WALL SWITCH AS REQUIRED	K-7
E6	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +18" AFF	K-9
E7	CONDUIT STUB - 120-208V/3PH/200A SERVICE STUB @ +9" AFF - CONNECT TO CIRCUIT BREAKER PANEL ON EQUIPMENT - SEE SHOP DRAWING FOR PANEL SCHEDULE	NLDP2-7
E8	MULTI-CIRCUIT JUNCTION BOX - (4) 120V/1PH/20A SERVICES +18" AFF - CONNECT TO CONVENIENCE DUPLEX RECEPTACLES - NEMA 5-20R GFCI - IN EQUIPMENT	K-13,15,17,19
E9	NOT USED	
E10	(2) DUPLEX RECEPTACLES - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI (1) @ +36" & (1) @ +72" AFF	K-23 K-41
E11	MULTI-CIRCUIT JUNCTION BOX - (2) 120V/1PH/20A SERVICES ABOVE FINISHED CEILING - WIRE DOWN UTILITY SERVICE CHASE - CONNECT TO CONVENIENCE DUPLEX RECEPTACLES - NEMA 5-20R GFCI MOUNTED IN EQUIPMENT	K-25,27
E12	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +50" AFF	K-29
E13	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +66" AFF	K-31
E14	MULTI-CIRCUIT JUNCTION BOX - (2) 120V/1PH/20A SERVICES +18" AFF - CONNECT TO CONVENIENCE DUPLEX RECEPTACLES - NEMA 5-20R GFCI - IN EQUIPMENT	K-33,35
E15	JUNCTION BOX - 120V/1PH/15A SERVICES +18" AFF - BRANCH & CONNECT TO (2) REFRIGERATED BASES & (2) REFRIGERATED INGREDIENT RAILS AS REQUIRED	K-37,39
E16	JUNCTION BOX - 208V/3PH/10A SERVICE +18" AFF - CONNECT TO EQUIPMENT	
E17	SINGLE RECEPTACLE - 208V/3PH/15A SERVICE - NEMA 15-15R +50" AFF	K-8,10,12
E18	JUNCTION BOX - 208V/3PH/40A SERVICE +50" AFF - CONNECT TO EQUIPMENT	K-14,16,18
E19	JUNCTION BOX - 208V/3PH/20A SERVICE +50" AFF - CONNECT TO EQUIPMENT	K-20,22,24
E20	SINGLE RECEPTACLE - 208V/1PH/20A SERVICE - NEMA L6-20R +18" AFF	K-26,28
E21	SINGLE RECEPTACLE - 208V/1PH/20A SERVICE - NEMA 6-20R +50" AFF	K-30,32
E22	JUNCTION BOX - 120V/1PH/10A SERVICE - DOWN FROM ABOVE TO TOP OF WALK-IN COOLER BOX - CONNECT TO JUNCTION BOX AND INTER-WIRE TO LIGHT FIXTURES, DOOR HEATER, & TEMPERATURE ALARM AS REQUIRED	K-34
E23	JUNCTION BOX - 120V/1PH/10A SERVICE - DOWN FROM ABOVE TO TOP OF WALK-IN BOX - CONNECT TO EVAPORATOR INSIDE WALK-IN BOX	K-36
E24	JUNCTION BOX, CONDUIT & WIRING BETWEEN EVAPORATOR & REMOTE REFRIGERATION RACK UNIT F/POWER FEED & CONTROL WIRING - STUB @ TOP OF WALK-IN BOX & @ REMOTE REFRIGERATION RACK - CONNECT TO EQUIPMENT AS REQUIRED	
E25	JUNCTION BOX - 120-208V/1PH/50A SERVICE +18" AFF - CONNECT TO EQUIPMENT	K-38,40
E26	JUNCTION BOX - 480V/3PH/40A SERVICE +60" AFF - CONNECT TO EQUIPMENT	NH2A-30,32,34 □ 3 3/8"
E27	JUNCTION BOX - 480V/3PH/50A SERVICE +60" AFF - CONNECT TO BOOSTER HEATER ON TOP OF EQUIPMENT	NH2A-36,38,40 □ 3 3/8"
E28	JUNCTION BOX - 208V/1PH/10A SERVICE +18" AFF - CONNECT TO EQUIPMENT	K2-24 □ 2 3/8"
E29	SINGLE RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 6-50R +50" AFF	K2-41
E30	JUNCTION BOX - 120V/1PH/20A SERVICE +72" AFF - CONNECT TO EQUIPMENT	K2-24
E31	NOT USED	
E32	JUNCTION BOX - 208V/1PH/30A SERVICE +78" AFF - CONNECT TO EQUIPMENT	K2-6,8
E33	JUNCTION BOX - 120V/1PH/20A DEDICATED CIRCUIT W/ISOLATED GROUND +18" AFF - CONNECT TO DUPLEX RECEPTACLE MOUNTED IN EQUIPMENT	
E34	EMPTY JUNCTION BOX & CONDUIT F/CATS6 COMMUNICATION/DATA CABLE - +18" AFF - VERIFY REQUIREMENTS WITH SUPPLIER	
E35	EMPTY OCTAGON JUNCTION BOX F/FIRE PROTECTION SYSTEM REMOTE PULL STATION - +48" AFF W/SCREW HOLES @ 2 & 8 O'CLOCK POSITIONS - EXTEND 1/2" EMT CONDUIT FROM BOX TO 6" ABOVE FINISHED CEILING W/NO BENDS	
E36	NOT USED	
E37	JUNCTION BOX - 120V/1PH/20A SERVICE +18" AFF - CONNECT TO CONVENIENCE DUPLEX RECEPTACLE - NEMA 5-20R GFCI - MOUNTED IN EQUIPMENT	
E38	SINGLE RECEPTACLE - 208V/1PH/30A SERVICE - NEMA L6-30R +50" AFF	K2-18,20
E39	JUNCTION BOX - 120V/1PH/20A SERVICE +78" AFF - CONNECT TO EQUIPMENT	K2-16

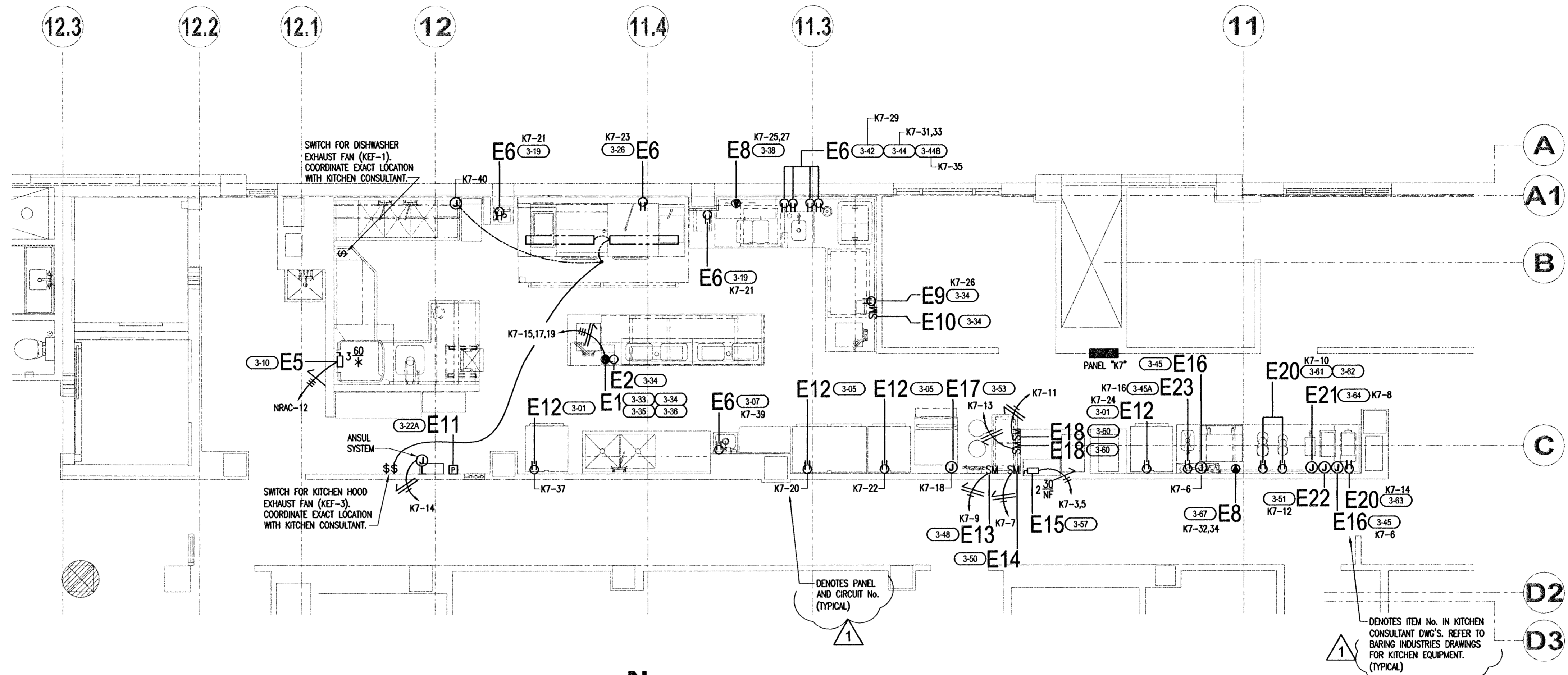
FIRST FLOOR KITCHEN PLAN - ELECTRICAL
SCALE: 1/4"=1'-0"

ELECTRICAL LEGEND	
DISCONNECT SWITCH	SR
SINGLE RECEPTACLE, NEMA 5-20R	DR
DUPLEX RECEPTACLE, NEMA 5-20R	QR
QUADRUPLEX RECEPTACLE, NEMA 5-20R	SPR
SPECIAL RECEPTACLE, 208 OR 480	FR
FLOOR RECEPTACLE	JB
JUNCTION BOX	DC
DROP CORD OR CONDUIT	C
CONDUIT STUB	S
WALL SWITCH	
RECEPTACLE ON EQUIPMENT	
FIRE PROTECTION SYSTEM REMOTE PULL STATION	
INCANDESCENT LIGHT FIXTURE	
FLUORESCENT LIGHT FIXTURE	
LOAD CENTER IN EQUIPMENT	
BUILDING LOAD CENTER PANEL	
POINT OF CONNECTION ON EQUIPMENT	
ABOVE FINISHED FLOOR	AFF
DROP FROM ABOVE	DFA
BRANCH TO CONNECTIONS	BTC
ELECTRICAL INTERCONNECTIONS	

E40	JUNCTION BOX - 120V/1PH/10A SERVICE +18" AFF - BRANCH & CONNECT TO (2) REFRIGERATED BASES	K2-1
E41	LIGHT & FAN SWITCHES F/EXHAUST HOOD @ 48" AFF - INTERWIRE TO EXHAUST HOOD(S) & FAN(S) AS REQUIRED	
E42	JUNCTION BOX - 120V/1PH/20A SERVICE DOWN FROM ABOVE TO TOP OF EXHAUST HOOD - CONNECT & INTERWIRE TO LIGHT FIXTURES & CAPTURE JET FANS AS REQUIRED	K2-3
E43	JUNCTION BOX - 120V/1PH/10A SERVICE ABOVE FINISHED CEILING - WIRE DOWN UTILITY CHASE - BRANCH & CONNECT TO REFRIGERATED BASE & REFRIGERATED INGREDIENT RAIL AS REQUIRED	K2-5
E44	JUNCTION BOX - 120V/1PH/20A SERVICE ABOVE FINISHED CEILING - WIRE DOWN UTILITY CHASE & CONNECT TO EQUIPMENT	K2-7
E45	JUNCTION BOX - 120V/1PH/15A SERVICE +18" AFF - BRANCH & CONNECT TO REFRIGERATED BASE, FREEZER BASE & REFRIGERATED INGREDIENT RAIL AS REQUIRED	K2-15
E46	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +90" AFF	
E47	JUNCTION BOX, CONDUIT & POWER FEED WIRING BETWEEN DRAIN LINE HEATER & REMOTE REFRIGERATION RACK - STUB @ TOP OF WALK-IN BOX & @ REMOTE REFRIGERATION RACK - CONNECT TO EQUIPMENT AS REQUIRED	K2-17
E48	JUNCTION BOXES @ DISHWASHER CONTROL PANEL (@+60" AFF) & EXHAUST FAN W/CONDUIT & WIRING F/VENT FAN CONTROL - EC TO CONNECT TO EQUIPMENT & INTERWIRE AS REQUIRED	K2-19
E49	DUPLEX RECEPTACLE ON DEDICATED CIRCUIT W/ISOLATED GROUND - 120V/1PH/20A SERVICE - NEMA 5-20R +66" AFF	
E50	EMPTY JUNCTION BOX & CONDUIT F/CATS6 COMMUNICATION/DATA CABLE - +66" AFF - VERIFY REQUIREMENTS WITH SUPPLIER	
E51	JUNCTION BOX ON DEDICATED CIRCUIT W/ISOLATED GROUND - 120V/1PH/20A SERVICE ABOVE FINISHED CEILING - WIRE DOWN UTILITY CHASE & CONNECT TO RECEPTACLE MOUNTED IN EQUIPMENT	K2-40
E52	EMPTY JUNCTION BOX & CONDUIT F/CATS6 COMMUNICATION/DATA CABLE ABOVE FINISHED CEILING - WIRE DOWN UTILITY CHASE - VERIFY REQUIREMENTS WITH SUPPLIER	

REVISIONS	REVISIONS

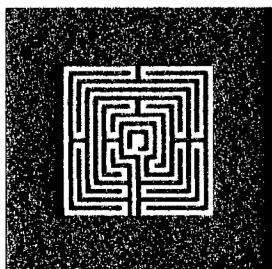
ITEM No.	ELECTRICAL ROUGH-IN SCHEDULE
E1	CONDUIT STUB - 120-208V/3PH/60A SERVICE STUB @ +6" AFF - CONNECT TO CIRCUIT BREAKER PANEL ON EQUIPMENT - SEE SHOP DRAWING FOR PANEL SCHEDULE
E2	EMPTY JUNCTION BOX & CONDUIT FCATS COMMUNICATION/DATA CABLE - +6" AFF - VERIFY REQUIREMENTS WITH SUPPLIER
E3	JUNCTION BOX - 120V/1PH/15A SERVICE DOWN FROM ABOVE - TO TOP OF MELINK CONTROL SYSTEM - CONNECT TO PROCESSOR POWER INPUT & INTER-WIRE TO HOOD LIGHTS, VENTILATION CONTROLLER KEYPAD, HOOD SENSOR & TELEPHONE ROUTER AS REQUIRED. REFER TO SHOP DRAWINGS FOR DETAILS
E4	MULTI CIRCUIT JUNCTION BOX & CONDUITS BETWEEN CIRCUIT BREAKERS, VARIABLE FREQUENCY DRIVES & EXHAUST/SUPPLY FANS. CONNECT & INTERWIRE AS REQUIRED. REFER TO SHOP DRAWINGS FOR DETAILS.
E5	JUNCTION BOX - 480V/3PH/35A SERVICE +18" AFF - CONNECT TO EQUIPMENT & INTERWIRE VENT FAN CONTROL TO EXHAUST FAN.
E6	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +18" AFF
E7	NOT USED
E8	SINGLE RECEPTACLE - 208V/1PH/30A SERVICE - NEMA L6-30R +50" AFF
E9	DUPLEX RECEPTACLE ON DEDICATED CIRCUIT W/ISOLATED GROUND - 120V/1PH/20A SERVICE - NEMA 5-20R +50" AFF
E10	EMPTY JUNCTION BOX & CONDUIT FCATS COMMUNICATION/DATA CABLE - +50" AFF - VERIFY REQUIREMENTS WITH SUPPLIER
E11	EMPTY OCTAGON JUNCTION BOX / FIRE PROTECTION SYSTEM REMOTE PULL STATION - +48" AFF W/SCREW HOLES @ 2 & 8 O'CLOCK POSITIONS - EXTEND 1/2" EMT CONDUIT FROM BOX TO 6" ABOVE FINISHED CEILING W/NO BENDS
E12	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +90" AFF
E13	JUNCTION BOX - 120V/1PH/15A SERVICE +24" AFF - CONNECT TO EQUIPMENT
E14	JUNCTION BOX - 120V/1PH/10A SERVICE +24" AFF - CONNECT TO EQUIPMENT
E15	JUNCTION BOX - 208V/1PH/15A SERVICE +60" AFF - CONNECT TO EQUIPMENT
E16	JUNCTION BOX - 120V/1PH/10A SERVICE +24" AFF - CONNECT TO EQUIPMENT
E17A	JUNCTION BOX - 208V/1PH/15A SERVICE +66" AFF - CONNECT TO EQUIPMENT
E16	JUNCTION BOX - 120V/1PH/10A SERVICE +24" AFF - CONNECT TO EQUIPMENT
E17B	JUNCTION BOX - 120V/1PH/15A SERVICE +78" AFF - CONNECT TO EQUIPMENT
E18	DUPLEX RECEPTACLE - 120V/1PH/20A SERVICE - NEMA 5-20R GFCI +50" AFF
E19	DUPLEX RECEPTACLE - 120V/1PH/15A SERVICE - NEMA 5-15R GFCI +50" AFF
E20	JUNCTION BOX - 120V/1PH/20A SERVICE +50" AFF - CONNECT TO EQUIPMENT
E21	JUNCTION BOX - 120-208V/1PH/40A SERVICE +50" AFF - CONNECT TO EQUIPMENT



SEVENTH FLOOR KITCHEN PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"

NOTE:
ALL 120V, 20A RECEPTACLES INSTALLED IN COMMERCIAL KITCHENS SHALL HAVE GFCI PROTECTION FOR PERSONNEL.

ELECTRICAL LEGEND	
DISCONNECT SWITCH	MR
MOTOR RATED SWITCH	SR
SINGLE RECEPTACLE, NEMA 5-20R	DR
DUPLEX RECEPTACLE, NEMA 5-20R	QR
QUADRAPLEX RECEPTACLE, NEMA 5-20R	SPR
SPECIAL RECEPTACLE, 208 OR 480	FR
FLOOR RECEPTACLE	JB
JUNCTION BOX	DC
DROP CORD OR CONDUIT	C
CONDUIT STUB	S
WALL SWITCH	SM
RECEPTACLE ON EQUIPMENT	SM
FIRE PROTECTION SYSTEM REMOTE PULL STATION	SM
INCANDESCENT LIGHT FIXTURE	SM
FLUORESCENT LIGHT FIXTURE	SM
LOAD CENTER IN EQUIPMENT	SM
BUILDING LOAD CENTER PANEL	SM
POINT OF CONNECTION ON EQUIPMENT	SM
ABOVE FINISHED FLOOR	AFF
DROP FROM ABOVE	DFA
BRANCH TO CONNECTIONS	BTC
ELECTRICAL INTERCONNECTIONS	SM



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JOB NO. 05035

Electrical Plans Examiner

1ST & 7TH FLOOR KITCHENS

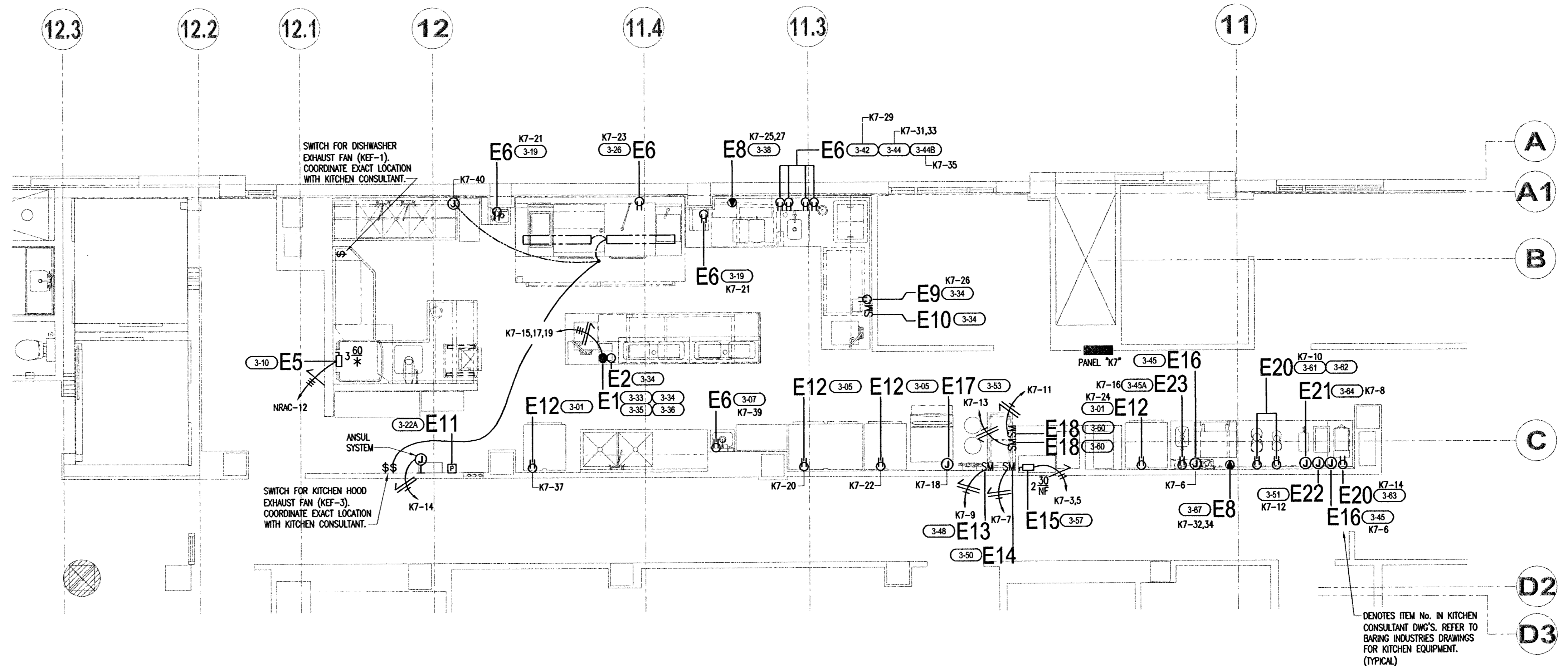
CONSTRUCTION DOCUMENTS

E-2

09.15.2009

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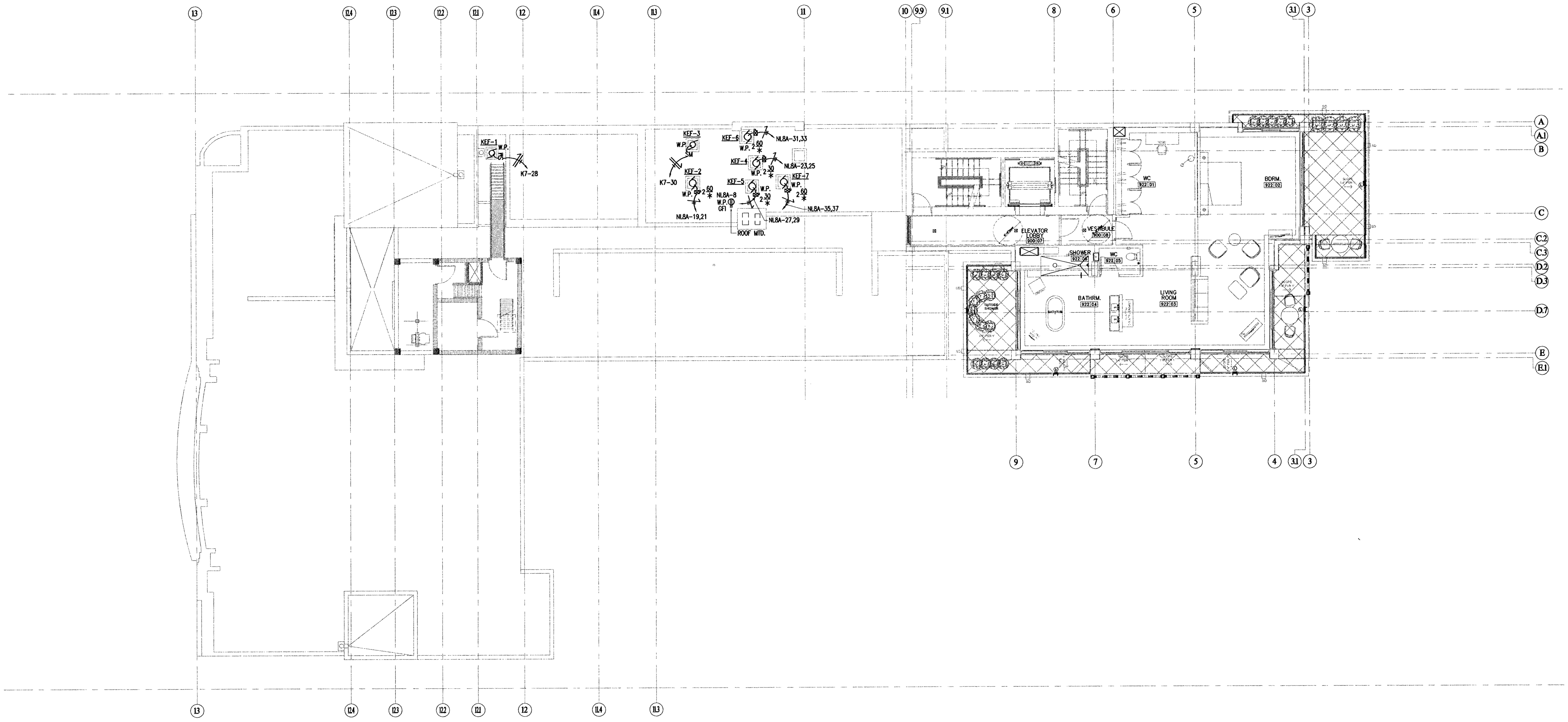
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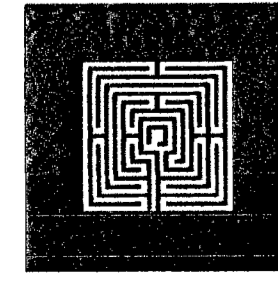
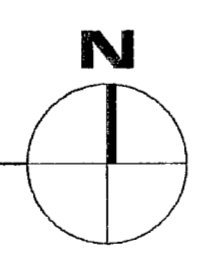
SEVENTH FLOOR KITCHEN PLAN - ELECTRICAL
SCALE: 1/4"=1'-0"

ELECTRICAL LEGEND	
DISCONNECT SWITCH	MR
MOTOR RATED SWITCH	SM
SINGLE RECEPTACLE, NEMA 5-20R	SR
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FLOOR RECEPTACLE	FR
JUNCTION BOX	JB
DROP COORD OR CONDUIT	DC
CONDUIT STUB	C
WALL SWITCH	S
RECEPTACLE ON EQUIPMENT	RE
FIRE PROTECTION SYSTEM REMOTE PULL STATION	FPS
INCANDESCENT LIGHT FIXTURE	ILF
FLUORESCENT LIGHT FIXTURE	FLF
LOAD CENTER IN EQUIPMENT	LC
BUILDING LOAD CENTER PANEL	BLCP
POINT OF CONNECTION ON EQUIPMENT	POC
ABOVE FINISHED FLOOR	AFF
DROP FROM ABOVE	DFA
BRANCH TO CONNECTIONS	BTC
ELECTRICAL INTERCONNECTIONS	W

REVISIONS	REVISIONS



NINTH FLOOR ROOF PLAN - POWER
SCALE: 1/8"=1'-0"



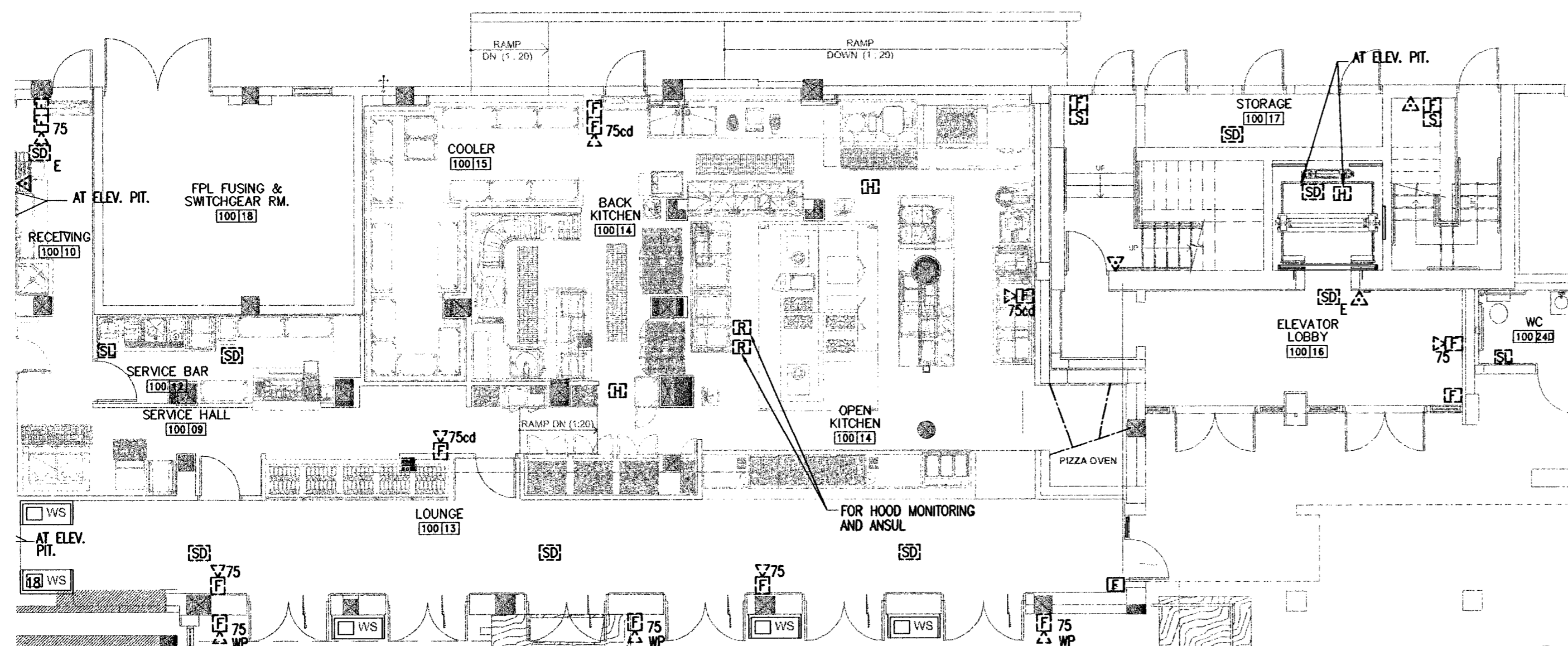
ALLAN T. SHULMAN ARCHITECT, P.A.
(AR 0012763)
100 NE 38TH STREET, NO. 2 MIAMI, FL 33137
TEL: 305.438.0609 FAX: 305.438.0170

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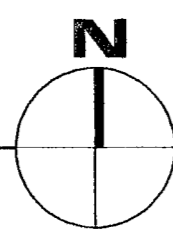
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1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

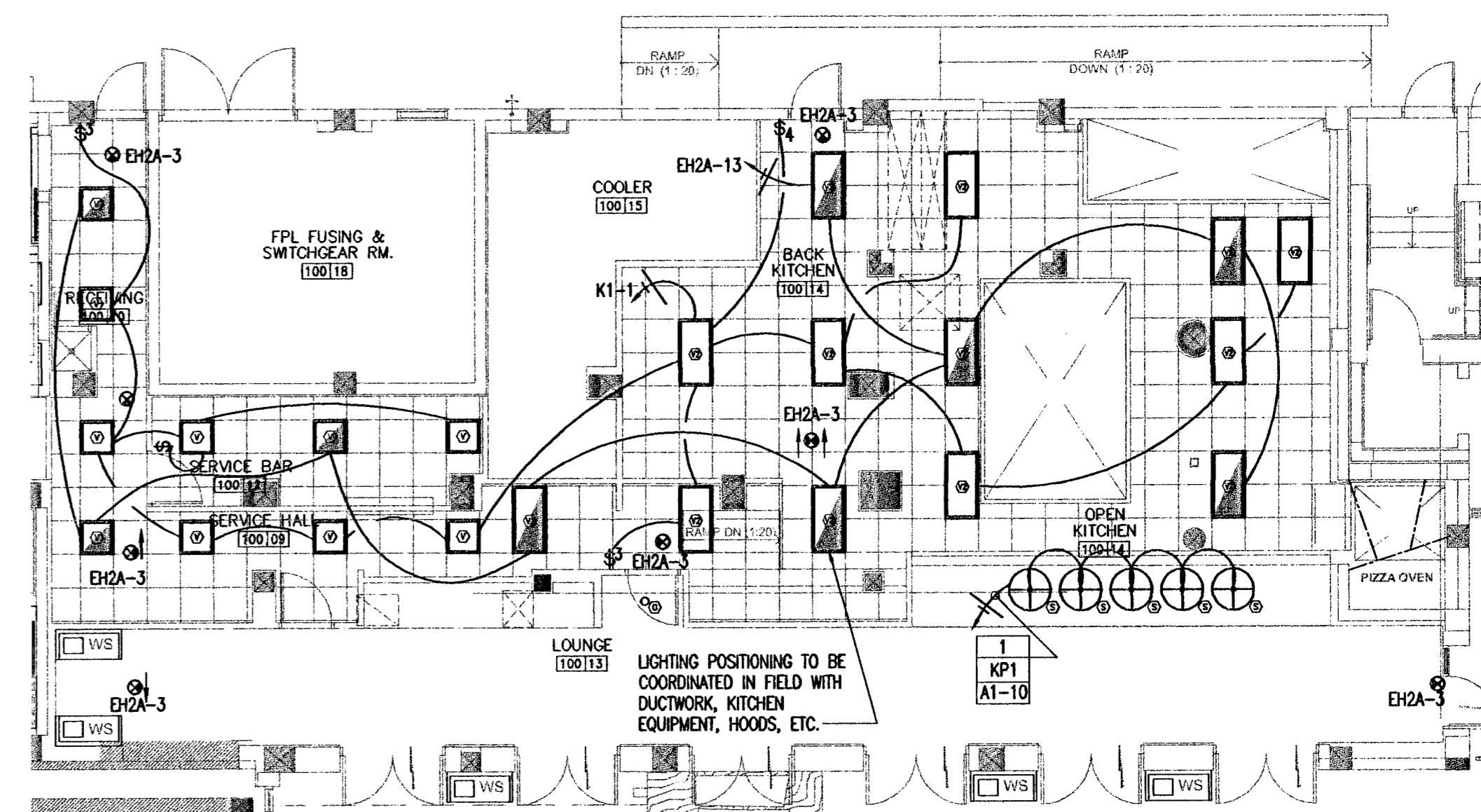


FIRST FLOOR PLAN - FIRE ALARM
SCALE: 1/8"=1'-0"

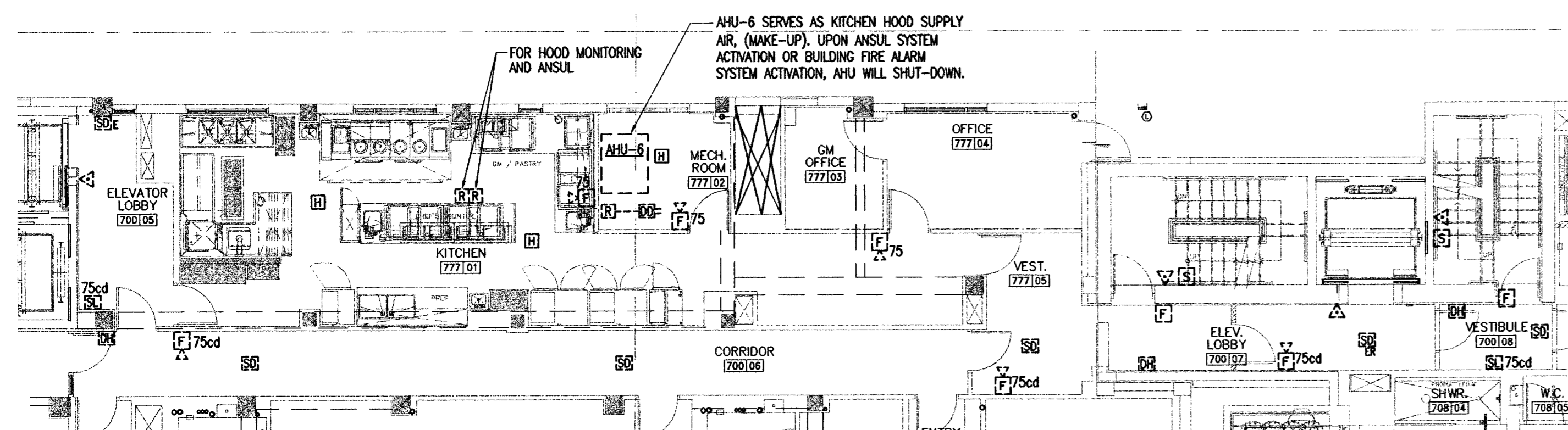


NOTE:
BUILDING FIRE ALARM APPROVED
UNDER BASE BUILDING PERMIT

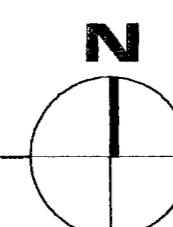
NOTE:
LIGHTING UNDER BASE BUILDING
PERMIT. SHOWN FOR REFERENCE
ONLY.



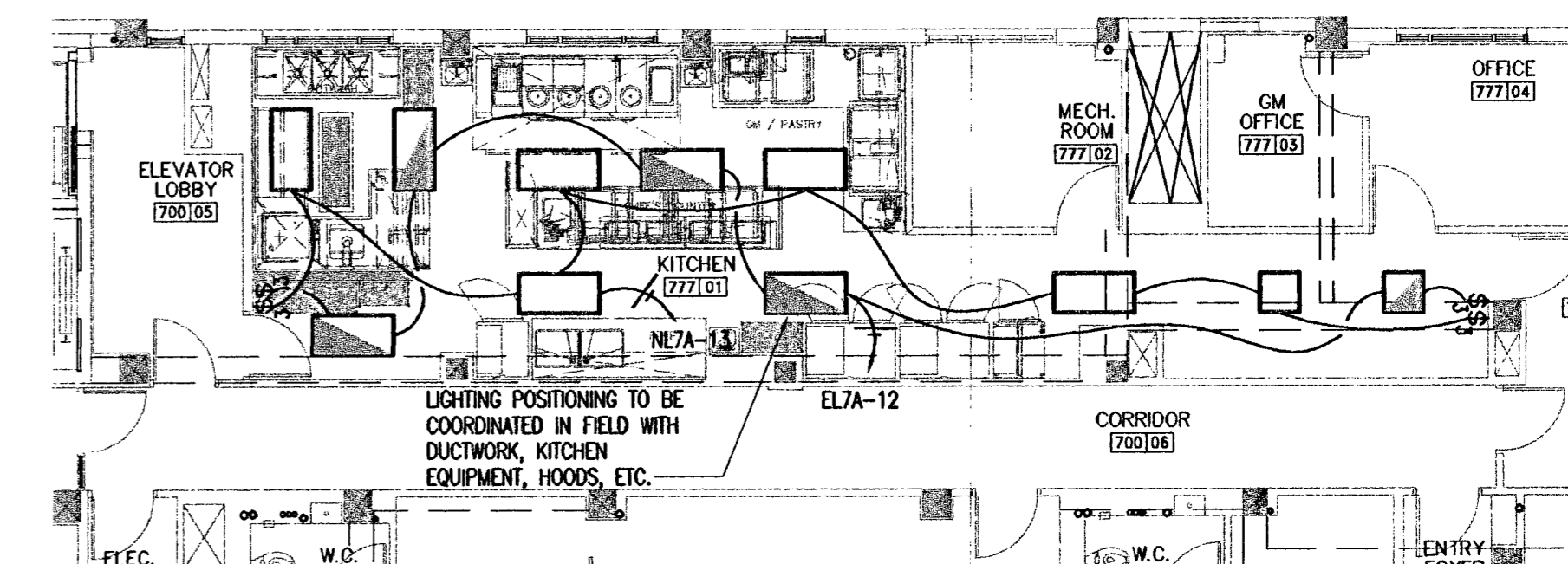
FIRST FLOOR KITCHEN PLAN - LIGHTING
SCALE: 1/8"=1'-0"



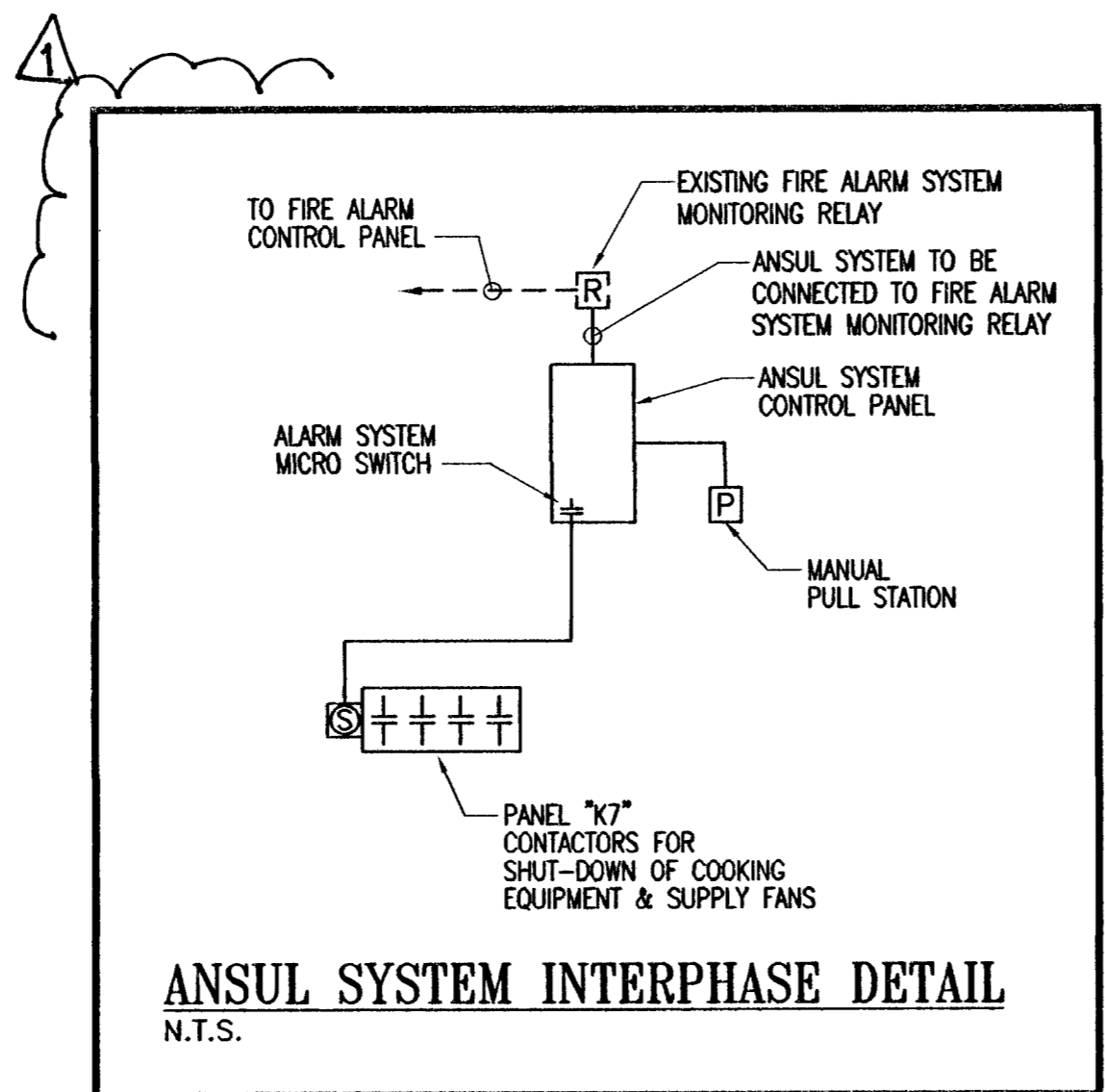
SEVENTH FLOOR PLAN - FIRE ALARM
SCALE: 1/8"=1'-0"



NOTE:
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SEVENTH FLOOR KITCHEN PLAN - LIGHTING
SCALE: 1/8"=1'-0"



ANSUL SYSTEM INTERPHASE DETAIL
N.T.S.

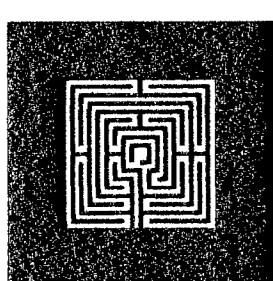
FIRE ALARM LEGEND

FIRE ALARM LEGEND

- [H] EXISTING FIRE ALARM HEAT DETECTOR
- [DD] EXISTING FIRE ALARM DUCT DETECTOR
- [SD] EXISTING FIRE ALARM SMOKE DETECTOR
- [SL] EXISTING FIRE ALARM STROBE LIGHT
- [P] EXISTING FIRE ALARM PULL STATION
- [F] EXISTING FIRE ALARM SPEAKER/STROBE LIGHT

GENERAL NOTES

- 1) MINIMUM CONDUIT SIZE 3/4" C.
- 2) SYSTEM SHALL BE POWER LIMITED.
- 3) WIRING TO BE F.P.L. RATED.
- 4) STROBE LIGHT TO BE A.D.A. TYPE.
- 5) WIRING SIZE TO BE:
 - 1) SIGNAL DEVICE #16 AWG.
 - WIRING AS PER MANUFACTURERS RECOMMENDATIONS.
- 6) ALL DEVICES SHALL BE U.L. LISTED & COMPATIBLE.
- 7) CONTRACTOR TO PROVIDE ANY ADDITIONAL HARDWARE NEEDED FOR A COMPLETE OPERATIONAL SYSTEM. PROVIDE BATTERY CALCULATIONS, LINE DRAWINGS ETC. SHOWING COMPLIANCE WITH FIRE MARSHALL REQUIREMENTS.
- 8) SYSTEM TO BE RE-CERTIFIED.
- 9) ENGINEER WILL NOT PROVIDE CAD FILES INDICATING DEVICES. CONTRACTOR TO PRODUCE INDEPENDENT POINT BY POINT WIRING DIAGRAM FOR A/E APPROVAL.



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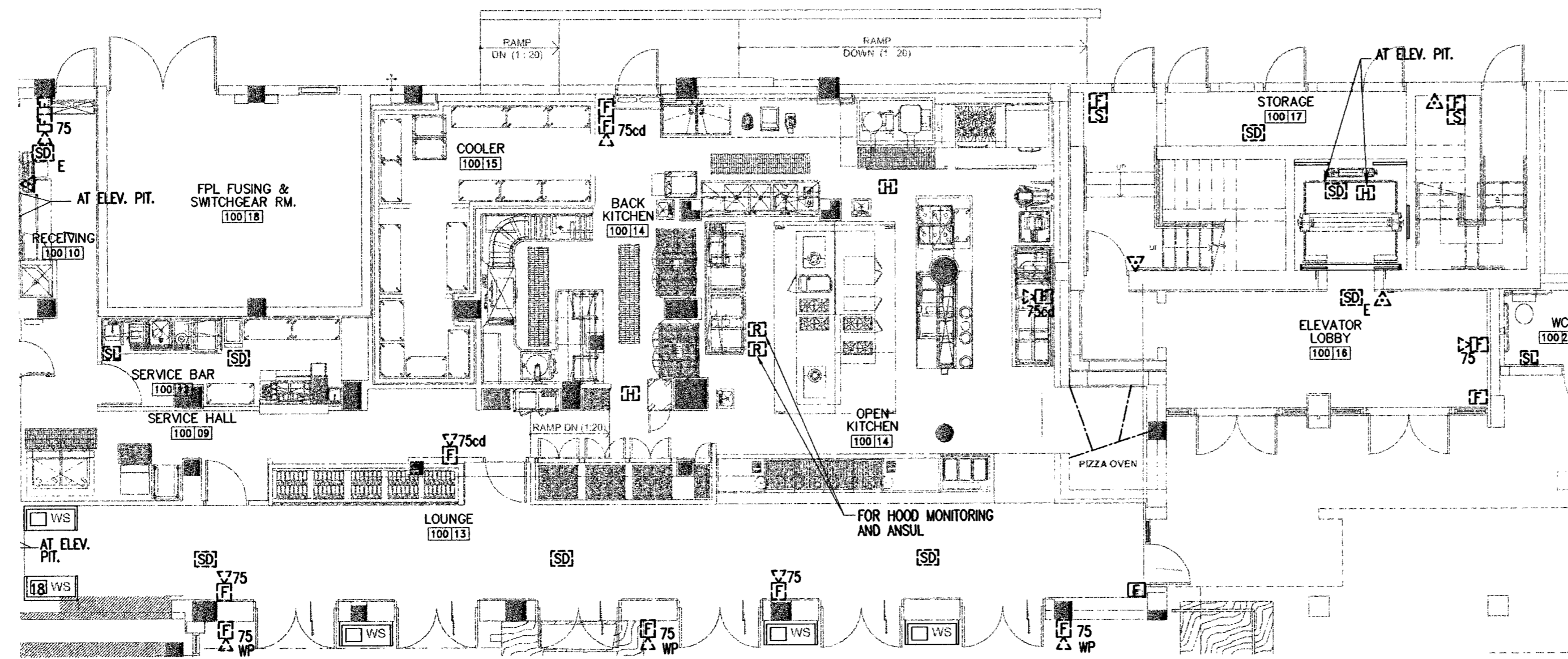
REVISIONS	REVISIONS
	BLDG. DEPT. 10.08.09

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JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

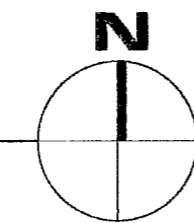
E-4
09.15.2009

B. Shulman



FIRST FLOOR PLAN - FIRE ALARM

SCALE: 1/8"=1'-0"



NOTE:
BUILDING FIRE ALARM APPROVED
UNDER BASE BUILDING PERMIT

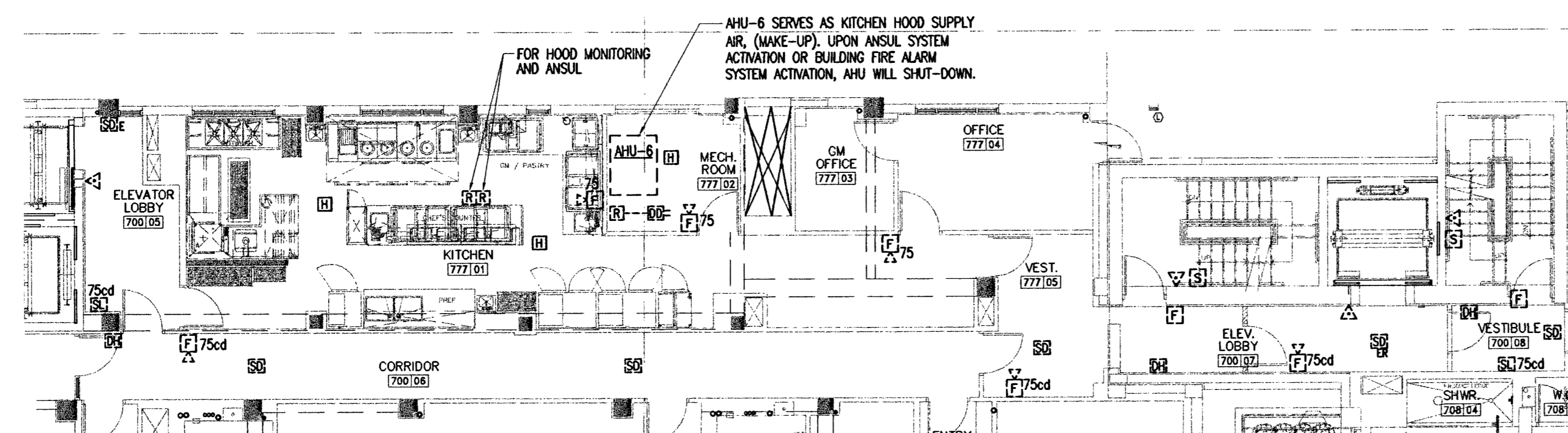
FIRE ALARM LEGEND

FIRE ALARM LEGEND

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- [F] EXISTING FIRE ALARM SPEAKER/STROBE LIGHT

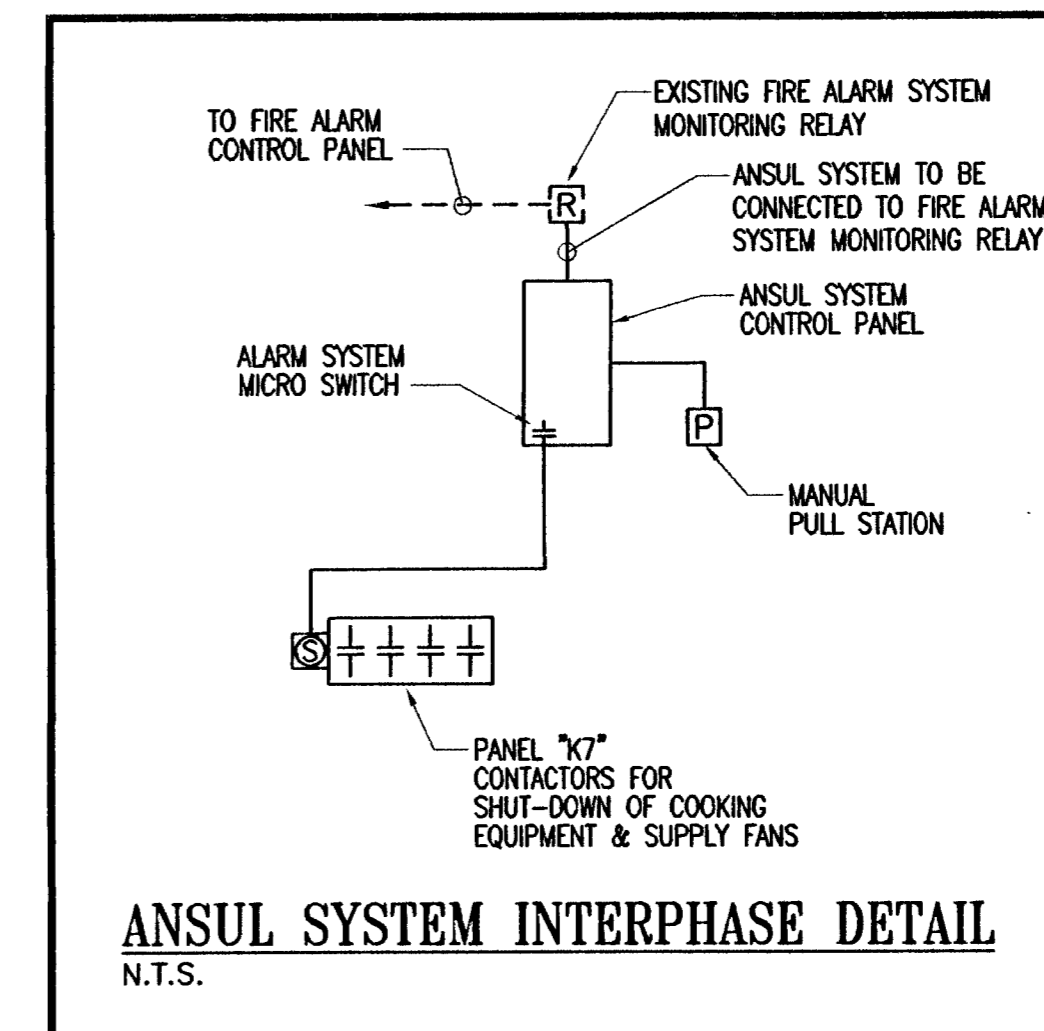
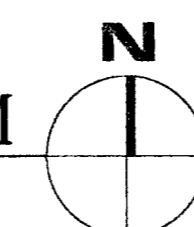
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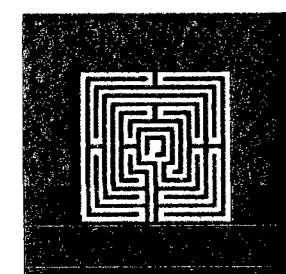


SEVENTH FLOOR PLAN - FIRE ALARM

SCALE: 1/8"=1'-0"



ANSUL SYSTEM INTERPHASE DETAIL
N.T.S.



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9.15.09



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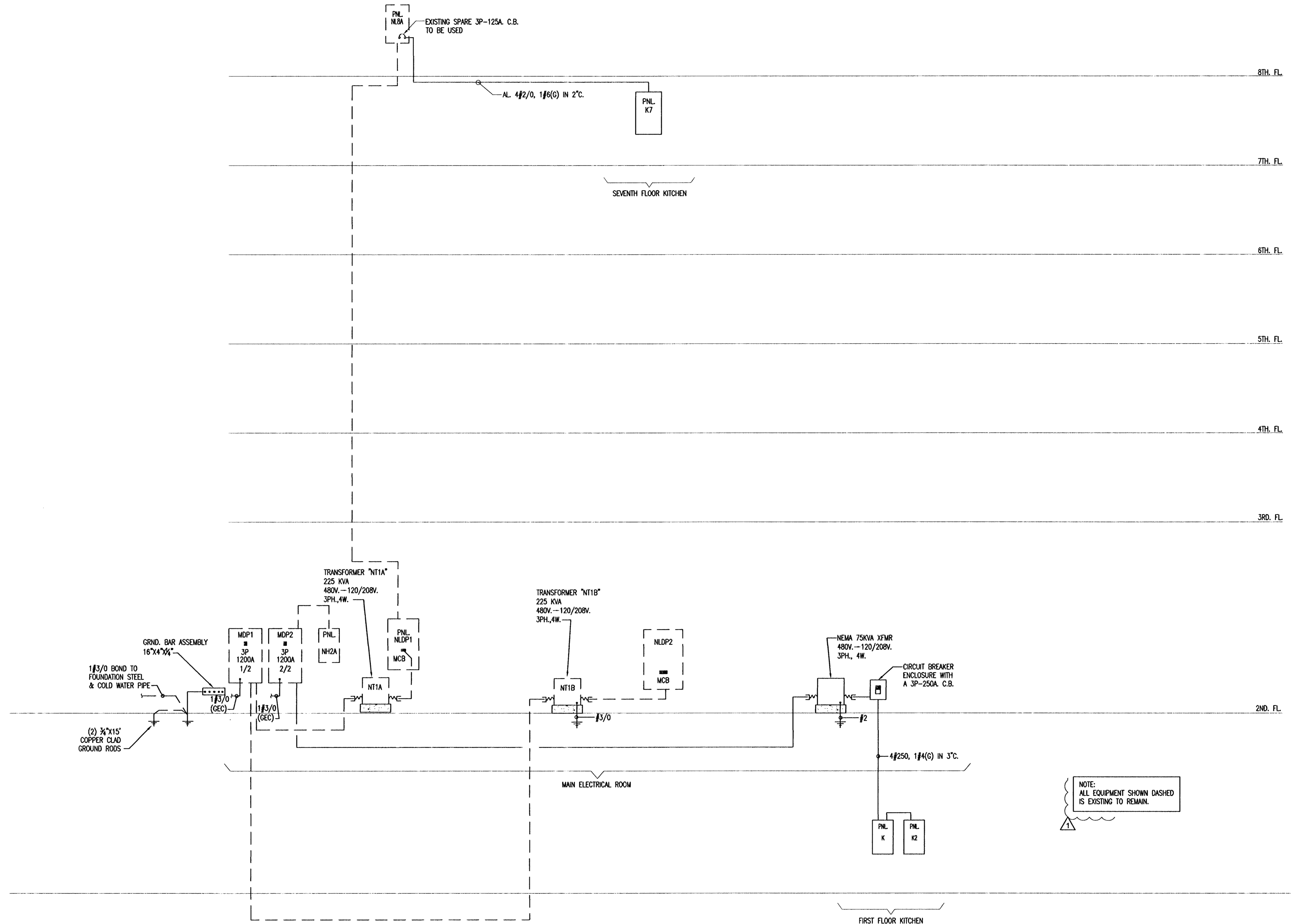
JOB NO. 05035

1ST & 7TH FLOOR KITCHENS

CONSTRUCTION DOCUMENTS

E-4

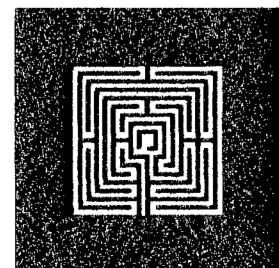
09.15.2009



ELECTRICAL RISER DIAGRAM
N.T.S.

NOTE:
ALL EQUIPMENT SHOWN DASHED
IS EXISTING TO REMAIN.

B. K. Wilson



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(AR 0012783)

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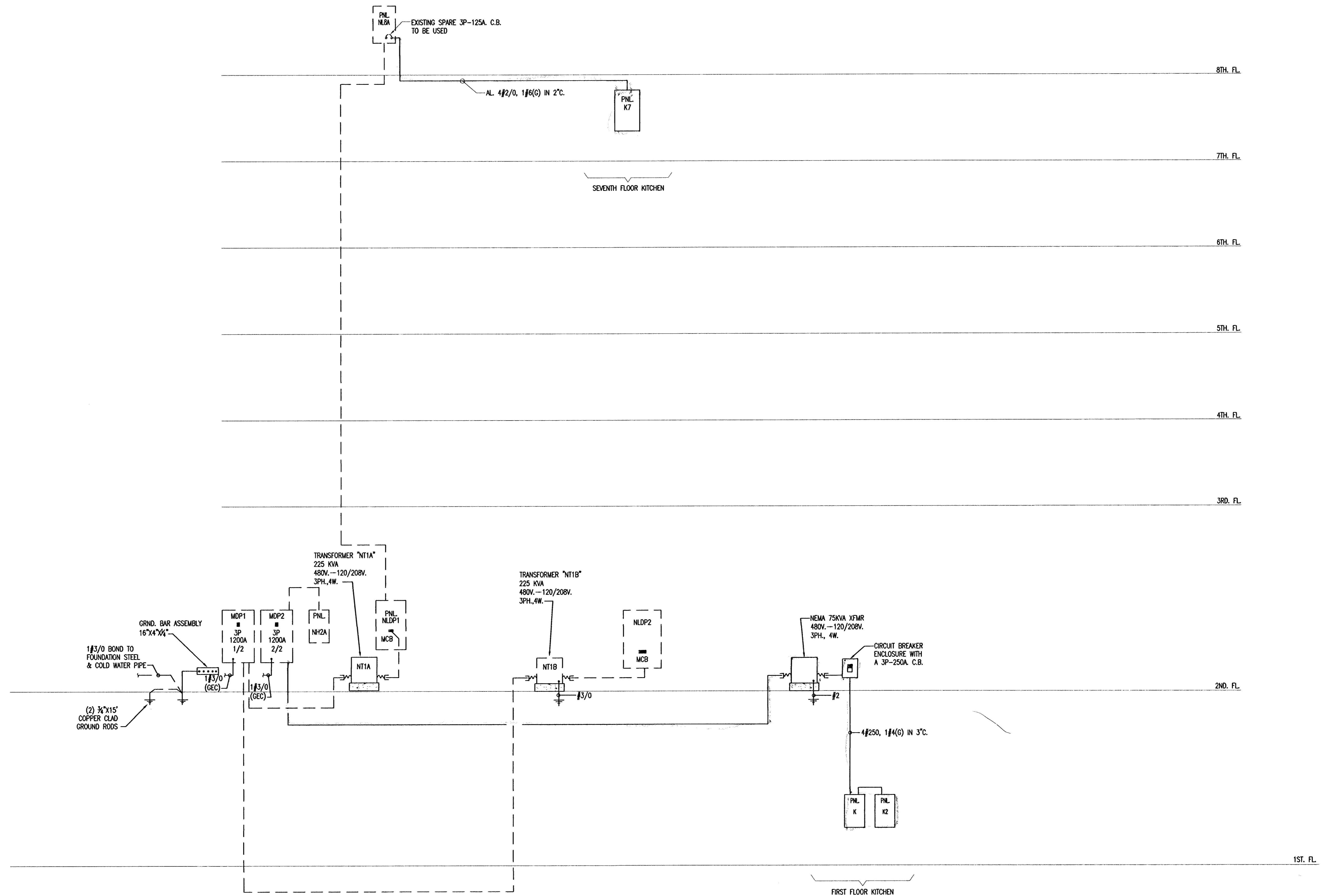
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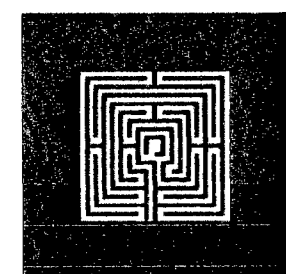
VIDAL & ASSOCIATES INC.
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E-5
09.15.2009



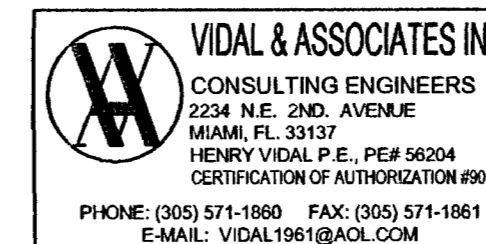
ELECTRICAL RISER DIAGRAM
N.T.S.



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REVISIONS	REVISIONS

9.15.09



SOHO BEACH HOUSE
4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

E-5
09.15.2009

EXISTING

PANEL-K		120/208 VOLTS, 3 Ø 4 WIRE		NEUTRAL		MAIN BKR.		22K AIC					
LOCATION: FLUSH		400 AMP BUS		LUGS ONLY		FRAME - A.		22K AIC					
SURFACE		GROUND BUS		NEMA 1		TRIP - A.		208 VOLTS					
LOAD DESCRIPTION	WIRE & CONDUIT	POLE	AMP TRIP	CKT. K.V.A.	CKT. No.	LOAD(KVA)	CKT. No.	CKT. K.V.A.	AMP TRIP	POLE	WIRE & CONDUIT	LOAD DESCRIPTION	
ITEM E1	#12, 1/2"	1	20	1.0	1	2.2	2	1.2	3	3	#12		
ITEM E3				1.2	3	2.4	4	1.2	20		1#12(G)	ITEM E16	
ITEM E4				1.0	5	2.2	6	1.2			IN 3/4"		
ITEM E5				0.6	7	1.2	8	0.6		3			
ITEM E6				0.1	9	0.7	10	0.6	20			ITEM E17	
ITEM E7				0.4	11	1.0	12	0.6					
ITEM E8				0.6	13	4.2	14	3.6		3	3#8		
ITEM E8				0.6	15	4.2	16	3.6	40		1#10(G)	ITEM E18 *	
ITEM E8				0.6	17	4.2	18	3.6			IN 3/4"		
ITEM E8				0.6	19	2.5	20	1.9		3			
ITEM E9				0.3	21	2.2	22	1.9	20			ITEM E19 *	
ITEM E10				1.6	23	3.5	24	1.9					
ITEM E11	*			0.4	25	1.0	26	0.6	20	2	2#12	ITEM E20 *	
ITEM E11	*			0.4	27	1.0	28	0.6			1#10(G)		
ITEM E12 CONVENIENCE	*			1.3	29	2.1	30	0.8	20	2		ITEM E21	
ITEM E13	*			1.6	31	2.4	32	0.8					
ITEM E14	*			0.6	33	1.6	34	1.0	20	1	#12, 1/2"	ITEM E22	
ITEM E14	*			0.6	35	2.1	36	1.5	20	1	#12, 1/2"	ITEM E23	
ITEM E15				0.8	37	4.6	38	3.8	50	2	3#8	ITEM E25	
ITEM E15				0.8	39	4.6	40	3.8			1#10(G) 3/4"		
ITEM 10				1.6	41	2.6	42	1.0	20	1	#12, 1/2"	ITEM E22	
						18.1	16.7	17.7					
TOTAL CONNECTED LOAD: (PANEL K & K2)						94.4 KVA;		262 AMPS.		NOTES: DEMAND LOAD PER NEC 220.20 94.4 KVA @ 65% = 61.3KVA			

● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.
 * VIA 20 POLE 40 AMP CONTACTOR "A" AND RELAY TO SHUT-DOWN COOKING EQUIPMENT ACTIVATED BY ANSUL SYSTEM MICRO SWITCH.

EXISTING

PANEL-K2		120/208 VOLTS, 3 Ø 4 WIRE		NEUTRAL		MAIN BKR.		22K AIC					
LOCATION: FLUSH		400 AMP BUS		LUGS ONLY		FRAME - A.		22K AIC					
SURFACE		GROUND BUS		NEMA 1		TRIP - A.		208 VOLTS					
LOAD DESCRIPTION	WIRE & CONDUIT	POLE	AMP TRIP	CKT. K.V.A.	CKT. No.	LOAD(KVA)	CKT. No.	CKT. K.V.A.	AMP TRIP	POLE	WIRE & CONDUIT	LOAD DESCRIPTION	
ITEM E40	#12, 1/2"	1	20	0.6	1	1.6	2	1.0	20	2	#12	ITEM E28	
ITEM E42	*			0.8	3	1.8	4	1.0			1#12(G) 3/4"		
ITEM E43	*			0.6	5	2.4	6	1.8	20	2	#12	ITEM E32	
ITEM E44	*			0.8	7	2.6	8	1.8			1#12(G) 3/4"		
ITEM E12	*			1.3	9	3.4	10	1.0	20	1	#10	ITEM E33	
ITEM E12				0.8	11	2.9	12	1.0	20	1	1#10(G) 3/4"		
ITEM E23				1.5	13	2.1	14	0.6	20	1	#12, 1/2"	ITEM E37	
ITEM E45	*			1.2	15	1.8	16	0.6	20	1	#12, 1/2"	ITEM E39 *	
ITEM E47				1.2	17	2.8	18	1.6	30	2	#10, 3/4"	ITEM E38	
ITEM E48				1.2	19	2.8	20	1.6					
ITEM E41				0.6	21	1.4	22	0.8	20	1	#12, 1/2"	ITEM E37	
ITEM E6				1.0	23	1.8	24	0.8	20	1	#12, 1/2"	ITEM E30	
ITEM E6				1.8	25	2.6	26	0.8				ITEM E22	
ITEM E12				1.5	27	2.3	28	0.8				ITEM E23	
ITEM E12				0.8	29	1.7	30	0.9				ITEM E46	
ITEM E12				0.5	31	1.4	32	0.9				ITEM E46	
ITEM E12				0.5	33	1.4	34	0.9				ITEM E46	
ITEM E16	#12, 3/4"	3		0.3	35	1.1	36	0.8				ITEM E49	
ITEM E16				20	0.3	37	1.1	38	0.8			ITEM E49	
ITEM E16				0.3	39	1.1	40	0.8				ITEM E51	
ITEM E29	#12, 1/2"	1	20	1.8	41	1.8	42	0.8				SUMP PUMP CONTROL PANEL	
						14.2	13.2	14.5					
TOTAL CONNECTED LOAD:						- KVA;		- AMPS.					

● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.
 * VIA 20 POLE 40 AMP CONTACTOR "B" AND RELAY TO SHUT-DOWN COOKING EQUIPMENT ACTIVATED BY ANSUL SYSTEM MICRO SWITCH.

EXISTING

DIST. PANEL-MDP2		277/480 VOLTS, 3Ø, 4 WIRE - S/N		65K AIC			
LOCATION: MAIN 2 OF 2		1200 AMPS. MAIN BKR. MAIN SW. M.L.O.		480 VOLTS			
		GND. FAULT PROT. SHUNT-TRIP TOP OR BOTTOM FED					
CKT. NO.	DESCRIPTION OF LOAD	NO. OF POLES	FRAME	TRIP	WIRE	CONDUIT	KVA
1	PANEL "K" VIA 75K XFMR	3	250	110	3#2, 1#6(G)	1 1/2"	61.3
2	PANEL "NH2A"			200	AL 4#250 MCM, 1#6CU (G)	2 1/2"	93.8
3							
4	PANEL "NRAC"	3	1000	1000	AL 3 SETS: 4 #600 MCM, 1 #2/0 CU (G)	3-4"	722
5	PANEL "NH1A"			250	AL 4 #3/0 MCM, 1 #6 CU (G)	2 1/2"	56.2
6	SPACE			250			
7				250			
8				250			
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
TOTAL CONNECTED LOAD : (KVA) 924.1							(A) 1113

● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.
 + EXISTING BRANCH BREAKERS TO REMAIN.

EXISTING

PANEL-NH2A		277/480 VOLTS, 3 Ø 4 WIRE		NEUTRAL		MAIN BKR.		14K AIC					
LOCATION: ELECT. RM. 2ND FL.		225 AMP BUS		LUGS ONLY		FRAME - A.		14K AIC					
SURFACE		GROUND BUS		NEMA 1		TRIP - A.		480 VOLTS					
LOAD DESCRIPTION	WIRE & CONDUIT	POLE	AMP TRIP	CKT. K.V.A.	CKT. No.	LOAD(KVA)	CKT. No.	CKT. K.V.A.	AMP TRIP	POLE	WIRE & CONDUIT	LOAD DESCRIPTION	
+ AHU-1	3 #12	3		2.1	1	4.5	2	2.4	20	1	#12, 1/2"	LIGHTS - 1ST FLR. +	
	1 #12 (G)		15	2.1	3	2.6	4	0.5	20	1	#12, 1/2"	LIGHTS - 2ND FLR.	
	3/4"C			2.1	5	2.6	6					SPACE	
	3 #12	3		1.8	7	1.8	8	0.5	20	1	#12, 1/2"	LIGHTS - 4TH FLR.	
+ AHU-4	1 #12 (G)		15	1.8	9	1.8	10	0.5					
	3/4"C			1.8	11	3.4	12	7.4		3	3#6		
	3 #12	3		2.1	13	4.2	14	7.4	60		1#10 (G)	AHU-5 +	
+ AHU-2	1 #12 (G)		20	2.1	15	4.2	16	7.4			1"C		
	3/4"C			2.1	17	7.1	18					SPACE	
	3 #12	3		1.3	19	6.3	20						
+ AHU-3	1 #12 (G)		15	1.3	21	6.3	22						
	3/4"C			1.3	23	6.3	24	5.0		3	3#12		
	3#12	3		5.0	25	10	26	5.0	25		1#12 (G)	EDH-4 +	
+ EDH-2	1 #12 (G)		25	5.0	27	10	28	5.0			3/4"C		
	3/4"C			5.0	29	5	30			3	3#10		
	3#12	3		3.3	31	3.3	32	30			1#12 (G)	ITEM E-26 ●	
+ EDH-1	1 #12 (G)		20	3.3	33	3.3	34				3/4"C		
	3/4"C			3.3	35	3.3	36			3	3#8		
	3#12	3		2.6	37	2.6	38	50			1#10 (G)	ITEM E-27 ●	
+ EDH-3	1 #12 (G)		15	2.6	39	2.6	40				3/4"C		
	3/4"C			2.6	41	2.6	42					SPACE	
FED FROM: MDP2 O.C.P. = 200A.						32.7	30.8	30.3					
TOTAL CONNECTED LOAD:						93.8 KVA;		113 AMPS.					

+ EXISTING BRANCH BREAKERS TO REMAIN.
 ● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.

EXISTING

PANEL-NL8A		120/208 VOLTS, 3 Ø 4 WIRE		NEUTRAL		MAIN BKR.		10K AIC				
LOCATION: FLUSH		225 AMP BUS		LUGS ONLY		FRAME - A.		10K AIC				
SURFACE		GROUND BUS		NEMA 1		TRIP - A.		208 VOLTS				
LOAD DESCRIPTION	WIRE & CONDUIT	POLE	AMP TRIP	CKT. K.V.A.	CKT. No.	LOAD(KVA)	CKT. No.	CKT. K.V.A.	AMP TRIP	POLE	WIRE & CONDUIT	LOAD DESCRIPTION
+ SPARE				1	1	1.6	2	1.0	20	1	#12, 1/2"	LIGHTS & REC. - CHILLER ROOM +
				3		1.1	4	0.5	20	1		LIGHTS - EXT. *
FCU-8-1	#10, 1/2"	2	25	1.9	5	1.4	6	0.5	20	1		- CANOPY
				1.9	7	1.4	8	0.5	20	1		RECEPTACLE
SPARE				9		1.3	10	0.5	20	1		SPARE
EF-44	#12, 1/2"	1	20	0.6	11	1.7	12	1.1	20	2	#12, 3/4"	FCU-CH +
EF-13	#12, 1/2"	1	20	0.6	13	1.7	14	1.1				
P-3	#12, 3/4"	2	20	0.6	15	1.7	16	1.1	20	2	#12, 1/2"	AC-1 AND COU
				0.6	17	1.7	18	1.1				
● KEF-2	#8, 3/4"	2	40	2.8	19	2.8	20					SPACE
				2.8	21	2.8	22					
● KEF-4	#10, 3/4"	2	25	1.5	23	1.5	24					
				1.5	25	1.5	26					
● KEF-5	#12, 3/4"	2	20	0.7	27	0.7	28					
				0.7	29	0.7	30					
● KEF-6	#8, 3/4"	2	40	2.8	31	2.8	32					

EXISTING

PANEL-K		120/208 VOLTS, 3 Ø 4 WIRE		NEUTRAL		MAIN BKR.		22K AIC		
LOCATION: FLUSH TOP FEED		400 AMP BUS		LUGS ONLY		FRAME - A		208 VOLTS		
SURFACE BOTTOM FEED		GROUND BUS		NEMA 1		TRIP - A		SHUNT TRIP		
LOAD DESCRIPTION	WIRE & CONDUIT	POLE	AMP TRIP	CKT. K.V.A.	LOAD (KVA)	CKT. K.V.A.	AMP TRIP	POLE	WIRE & CONDUIT	LOAD DESCRIPTION
ITEM E1	#12, 1/2"	1	20	1.0 1	2.2	2	1.2	3		
ITEM E3				1.2 3	2.4	4	1.2	20		ITEM E16
ITEM E4				1.0 5	2.2	6	1.2			
ITEM E5				0.6 7	1.2	8	0.6	3		
ITEM E6				0.1 9	0.7	10	0.6	20		ITEM E17
ITEM E7				0.4 11	1.0	12	0.6			
ITEM E8				0.6 13	4.2	14	3.6	3		
ITEM E8				0.6 15	4.2	16	3.6	40		ITEM E18 *
ITEM E8				0.6 17	4.2	18	3.6			
ITEM E8				0.6 19	2.5	20	1.9	3		
ITEM E9				0.3 21	2.2	22	1.9	20		ITEM E19 *
ITEM E10				1.6 23	3.5	24	1.9			
ITEM E11	*			0.4 25	1.0	26	0.6	20	2	ITEM E20 *
ITEM E11	*			0.4 27	1.0	28	0.6			
ITEM E12 CONVENIENCE	*			1.3 29	2.1	30	0.8	20	2	ITEM E21
ITEM E13	*			1.6 31	2.4	32	0.8			
ITEM E14	*			0.6 33	1.6	34	1.0	20	1	ITEM E22
ITEM E14	*			0.6 35	2.1	36	1.5	20	1	ITEM E23
ITEM E15				0.8 37	4.6	38	3.8	50	2	ITEM E25
ITEM E15				0.8 39	4.6	40	3.8			ITEM E22
ITEM 10				1.6 41	2.6	42	1.0	20	1	
				18.1	16.7	17.7				
TOTAL CONNECTED LOAD: 94.4 KVA; 282 AMPS.										
NOTES: DEMAND LOAD PER NEC. 220.20 94.4 KVA @ 65% = 61.3KVA										

● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.
* VIA 20 POLE 40 AMP CONTACTOR "A" AND RELAY TO SHUT-DOWN COOKING EQUIPMENT ACTIVATED BY ANSUL SYSTEM MICRO SWITCH.

EXISTING

PANEL-K2		120/208 VOLTS, 3 Ø 4 WIRE		NEUTRAL		MAIN BKR.		22K AIC		
LOCATION: FLUSH TOP FEED		400 AMP BUS		LUGS ONLY		FRAME - A		208 VOLTS		
SURFACE BOTTOM FEED		GROUND BUS		NEMA 1		TRIP - A		SHUNT TRIP		
LOAD DESCRIPTION	WIRE & CONDUIT	POLE	AMP TRIP	CKT. K.V.A.	LOAD (KVA)	CKT. K.V.A.	AMP TRIP	POLE	WIRE & CONDUIT	LOAD DESCRIPTION
ITEM E40	#12, 1/2"	1	20	0.6 1	1.6	2	1.0	20	2	ITEM E28
ITEM E42	*			0.8 3	1.8	4	1.0			
ITEM E43	*			0.6 5	2.4	6	1.8	20	2	ITEM E32
ITEM E44	*			0.8 7	2.6	8	1.8			
ITEM E12	*			1.3 9	3.4	10	1.0	20	1	ITEM E33
ITEM E12				0.8 11	2.9	12	1.0	20	1	
ITEM E23				1.5 13	2.1	14	0.6	20	1	ITEM E37
ITEM E45	*			1.2 15	1.8	16	0.6	20	1	ITEM E39 *
ITEM E47				1.2 17	2.8	18	1.6	30	2	ITEM E38
ITEM E48				1.2 19	2.8	20	1.6			
ITEM E41				0.6 21	1.4	22	0.8	20	1	ITEM E37
ITEM E6				1.0 23	1.8	24	0.8	20	1	ITEM E30
ITEM E6				1.8 25	2.6	26	0.8			ITEM E22
ITEM E12				1.5 27	2.3	28	0.8			ITEM E23
ITEM E12				0.8 29	1.7	30	0.9			ITEM E46
ITEM E12				0.5 31	1.4	32	0.9			ITEM E46
ITEM E12				0.5 33	1.4	34	0.9			ITEM E46
ITEM E16	#12, 3/4"	3	20	0.3 35	1.1	36	0.8			ITEM E49
				0.3 37	1.1	38	0.8			ITEM E49
				0.3 39	1.1	40	0.8			ITEM E51
ITEM E29				1.8 41	1.8	42				SPACE
				14.2	13.2	14.5				
TOTAL CONNECTED LOAD: - KVA; - AMPS.										

● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.
* VIA 20 POLE 40 AMP CONTACTOR "B" AND RELAY TO SHUT-DOWN COOKING EQUIPMENT ACTIVATED BY ANSUL SYSTEM MICRO SWITCH.

EXISTING

DIST. PANEL-MDP2		277/480 VOLTS, 3Ø, 4 WIRE - S/N		65K AIC			
LOCATION: MAIN 2 OF 2		1200 AMPS. MAIN BKR. MAIN SW. M.L.O.		480 VOLTS			
		GND. FAULT PROT. SHUNT-TRIP TOP OR BOTTOM FED					
CKT. NO.	DESCRIPTION OF LOAD	NO. OF POLES	BRANCH SIZE (AMPS)	FEEDER SIZE	WIRE	CONDUIT	KVA
1	PANEL "K" VIA 75K XFMR	3	250	110	3#2, 1#6(G)	1 1/2"	52.1
2	PANEL "NH2A"	3	250	200	AL. 4#250 MCM, 1#6CU (G)	2 1/2"	93.8
3							
4	PANEL "NRAC"	3	1000	1000	AL. 3 SETS: 4 #600 MCM, 1 #2/0 CU (G)	3-4"	722
5	PANEL "NH1A"	3	250	150	AL. 4 #3/0 MCM, 1 #6 CU (G)	2 1/2"	56.2
6	SPACE						
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
TOTAL CONNECTED LOAD : (KVA) 924.1							
(A) 1113							

● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.
+ EXISTING BRANCH BREAKERS TO REMAIN.

EXISTING

PANEL-NH2A		277/480 VOLTS, 3 Ø 4 WIRE		NEUTRAL		MAIN BKR.		14K AIC		
LOCATION: ELECT. RM. 2ND FL.		225 AMP BUS		LUGS ONLY		FRAME - A		480 VOLTS		
FLUSH TOP FEED		GROUND BUS		NEMA 1		TRIP - A		SHUNT TRIP		
LOAD DESCRIPTION	WIRE & CONDUIT	POLE	AMP TRIP	CKT. K.V.A.	LOAD (KVA)	CKT. K.V.A.	AMP TRIP	POLE	WIRE & CONDUIT	LOAD DESCRIPTION
+ AHU-1	3 #12	3	15	2.1 1	4.5	2	2.4	20	1	LIGHTS - 1ST FLR. +
	1 # 12 (G)			2.1 3	2.6	4	0.5	20	1	LIGHTS - 2ND FLR.
	3/4"C			2.1 5	2.6	6				SPACE
	3 #12	3	15	1.8 7	1.8	8	0.5	20	1	LIGHTS - 4TH FLR.
+ AHU-4	1 # 12 (G)	15	1.8	9	1.8	10	0.5			
	3/4"C			1.8 11	3.4	12	7.4	3	3#6	
	3 #12	3	20	2.1 13	4.2	14	7.4	60	1#10 (G)	AHU-5 +
+ AHU-2	1 # 12 (G)	20	2.1	15	4.2	16	7.4		1"C	
	3/4"C			2.1 17	7.1	18				SPACE
	3 #12	3	1.3	19	6.3	20				
+ AHU-3	1 # 12 (G)	15	1.3	21	6.3	22				
	3/4"C			1.3 23	6.3	24	5.0	3	3#12,	
	3#12	3	5.0	25	10	26	5.0	25	1#12 (G)	EDH-4 +
+ EDH-2	1 # 12 (G)	25	5.0	27	10	28	5.0		3/4"C	
	3/4"C			5.0 29	5	30		3	3#10,	
	3#12	3	3.3	31	3.3	32	30		1#12 (G)	ITEM E-26 ●
+ EDH-1	1 # 12 (G)	20	3.3	33	3.3	34			3/4"C	
	3/4"C			3.3 35	3.3	36		3	3#8,	
	3#12	3	2.6	37	2.6	38	50		1#10 (G)	ITEM E-27 ●
+ EDH-3	1 # 12 (G)	15	2.6	39	2.6	40			3/4"C	
	3/4"C			2.6 41	2.6	42				SPACE
FED FROM: MDP2 O.C.P. = 200A.				32.7	30.8	30.3				
TOTAL CONNECTED LOAD: 93.8 KVA; 113 AMPS.										

+ EXISTING BRANCH BREAKERS TO REMAIN.
● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.

EXISTING

PANEL-NL8A		120/208 VOLTS, 3 Ø 4 WIRE		NEUTRAL		MAIN BKR.		10K AIC		
LOCATION: FLUSH TOP FEED		225 AMP BUS		LUGS ONLY		FRAME - A		208 VOLTS		
SURFACE BOTTOM FEED		GROUND BUS		NEMA 1		TRIP - A		SHUNT TRIP		
LOAD DESCRIPTION	WIRE & CONDUIT	POLE	AMP TRIP	CKT. K.V.A.	LOAD (KVA)	CKT. K.V.A.	AMP TRIP	POLE	WIRE & CONDUIT	LOAD DESCRIPTION
+ SPARE				1 1.6	1.1	2	1.0	20	1	LIGHTS & REC. - CHILLER ROOM +
				3 1.1	1.1	4	0.5	20	1	LIGHTS - EXT. *
FCU-8-1	#10, 1/2"	2	25	1.9 5	1.4	6	0.5	20	1	- CANOPY
				1.9 7	1.4	8	0.5	20	1	RECEPTACLE
SPARE				9 1.3	1.3	10	0.5	20	1	SPARE
EF-44	#12, 1/2"	1	20	0.6 11	1.7	12	1.1	20	2	FCU-CH +
EF-13	#12, 1/2"	1	20	0.6 13	1.7	14	1.1			
P-3	#12, 3/4"	2	20	0.6 15	1.7	16	1.1	20	2	AC-1 AND CDU
				0.6 17	1.7	18	1.1			
● KEF-2	#8, 3/4"	2	40	2.8 19	2.8	20				SPACE
				2.8 21	2.8	22				
● KEF-4	#10, 3/4"	2	25	1.5 23	1.5	24				
				1.5 25	1.5	26				
● KEF-5	#12, 3/4"	2	20	0.7 27	0.7	28				
				0.7 29	0.7	30				
● KEF-6	#8, 3/4"	2	40	2.8 31	2.8	32				
				2.8 33	2.8	34				
● KEF-7	#8, 3/4"	2	40	2.8 35	2.8	36				
				2.8 37	13.4	38	10.6	3	AL. 4#2/0,	
SPACE	3/4"			39	10.6	40	10.6	125	1#6(G)	7TH FLR. KITCHEN +
				41	10.6	42	10.6			IN 2"C.
FED FROM: NLDP1 O.C.P. = 2250A.				25.2	21	20.4				
TOTAL CONNECTED LOAD: 66.6 KVA; 185 AMPS.										

+ EXISTING BRANCH BREAKERS TO REMAIN.
● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.

EXISTING

DIST. PANEL-NLDP2		120/208 VOLTS, 3Ø, 4 WIRE - S/N		42K AIC			
LOCATION:		800 AMPS. MAIN BKR. MAIN SW. M.L.O.		208 VOLTS			
		GND. FAULT PROT. SHUNT-TRIP TOP OR BOTTOM FED					
CKT. NO.	DESCRIPTION OF LOAD	NO. OF POLES	BRANCH SIZE (AMPS)	FEEDER SIZE	WIRE	CONDUIT	KVA
1	PANEL "2LT"	3	100	60	4#6, 1#10 (G)	1"	4.7
2	PANEL "3LT"	3	100	100	4#3, 1		

EXISTING

PANEL-NRAC		277/480 VOLTS, 3 ϕ , 4 WIRE - S/N			25K AIC		
NEMA 3R		1200 AMPS. <input type="checkbox"/> MAIN BKR. <input type="checkbox"/> MAIN SW. <input checked="" type="checkbox"/> M.L.O. @ 480 VOLTS			10K AIC		
LOCATION: CHILLER. RM. EXTERIOR		<input type="checkbox"/> GND. FAULT PROT. <input type="checkbox"/> SHUNT-TRIP <input type="checkbox"/> TOP OR <input checked="" type="checkbox"/> BOTTOM FED			208 VOLTS		
CKT. NO.	DESCRIPTION OF LOAD	BRANCH SIZE (AMPS)			FEEDER SIZE		KVA
		NO. OF POLES	FRAME	TRIP	WIRE	CONDUIT	
1	CH-1	3	400	350	3 #500MCM, 1#3 (G)	3"	190
2	MOTOR CONTROL CENTER	3	250	200	3 #3/0, 1#6 (G)	2"	104
3	SPACE	3	250				
4	OUA-1	3	250	90	3 #3, 1#8 (G)	1 1/4"	47
5	OUA-2	3	250	125	3 #1, 1#6 (G)	1 1/2"	68
6	CT-1	3	100	40	3 #8, 1#10 (G)	3/4"	17
7	CT-2	3	100	40	3 #8, 1#10 (G)	3/4"	17
8	OUA-3	3	250	125	3 #1, 1#6 (G)	1 1/4"	68
9	CH-2	3	400	350	3 #500MCM, 1#3 (G)	3"	190
10	AHU-6	3	100	20	3 #12, 1#12 (G)	3/4"	6.3
11	EDH-6	3	100	40	3 #8, 1#10 (G)	3/4"	24
12	ITEM 3-10	3	100	40	3 #8, 1#10 (G)	3/4"	22.5
13							
14							
15							
16							
17							
18							
19							
20							
TOTAL CONNECTED LOAD: (KVA) 744.5							
(A) 897							

* EXISTING BREAKERS TO REMAIN.
 ● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.

PANEL-K7		120/208 VOLTS, 3 ϕ , 4 WIRE			<input checked="" type="checkbox"/> NEUTRAL <input type="checkbox"/> MAIN BKR.							
LOCATION:		225 AMP BUS			<input checked="" type="checkbox"/> FULL FRAME - A.							
<input type="checkbox"/> FLUSH <input type="checkbox"/> TOP FEED		<input checked="" type="checkbox"/> GROUND BUS			<input type="checkbox"/> 50% TRIP - A.							
<input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> BOTTOM FEED		NEMA 1			<input type="checkbox"/> 200% SHUNT TRIP							
LOAD DESCRIPTION	WIRE & CONDUIT	POLE	AMP TRIP	CKT. K.V.A.	CKT. No.	LOAD (KVA)	CKT. K.V.A.	AMP TRIP	POLE	WIRE & CONDUIT	LOAD DESCRIPTION	
SPACE											ITEM 3-51	
ITEM 3-57	#12, 1/2" C	2	20	1.1	3	3.9	4	2.8	2	#8, 3/4" C	SPARE	
				1.1	5		1.2	6	0.1	20	1	ITEM 3-49
ITEM 3-50	#12, 1/2" C	1	20	0.6	7	0.85	8	0.25	20	1		ITEM 3-61
ITEM 3-48	#12, 1/2" C	1	20	1.1	9		10	0.2	20	1		ITEM 3-47
ITEM 3-60	#12, 1/2" C	1	20	1.2	11		1.6	12	0.35	20	1	ITEM 3-62
ITEM 3-60	#12, 1/2" C	1	20	1.2	13	3.0	14	1.8	20	1		ITEM 3-64
				5.4	15	7.1	16	1.7	20	1		ITEM 3-65
PANEL	1#10(G)			60	5.4	17	6.7	18	1.3	20	1	ITEM 3-53
	1" C			5.4	19	6.4	20	1.0	20	1		ITEM 3-05
ITEM 3-19	#12, 1/2" C	1	20	0.2	21		1.2	22	1.0			ITEM 3-05
ITEM 3-26	#12, 1/2" C	1	20	0.5	23		1.8	24	1.3			ITEM 3-06
ITEM 3-38	#10, 3/4" C	2	30	1.8	25	2.0	26	0.2				ITEM 3-34
				1.8	27	2.4	28	0.6				KEF-1
ITEM 3-42	#12, 1/2" C	1	20	0.8	29		1.6	30	0.8			KEF-3
ITEM 3-44	#12, 1/2" C	1	20	1.4	31	1.9	32	0.5				SPARE
ITEM 3-44	#12, 1/2" C	1	20	1.5	33		34	0.5				
ITEM 3-44B	#12, 1/2" C	1	20	0.2	35		0.7	36	0.5			
ITEM 3-01	#12, 1/2" C	1	20	0.8	37	1.2	38	0.5				
ITEM 3-07	#12, 1/2" C	1	20	0.2	39		40	0.6		#12, 1/2" C	HOOD LTS.	
ANSUL SYSTEM	#12, 1/2" C	1	20	0.4	41		0.6	42	0.2	#12, 1/2" C	GAS SOLENOID VALVE	
				17.8	18	13.2						
TOTAL CONNECTED LOAD: 49 KVA; 136 AMPS.												
							DEMAND LOAD PER N.E.C. TABLE 220.20					
							49KVA @ 65% = 32KVA					

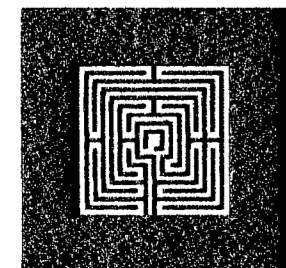
* EXISTING BRANCH BREAKERS.
 ● VIA 6 POLE, 20 AMP CONTACTOR AND RELAY TO SHUT-DOWN COOKING EQUIPMENT ACTIVATED BY ANSUL SYSTEM MICRO SWITCH.

EXISTING

DIST. PANEL-MDP1		277/480 VOLTS, 3 ϕ , 4 WIRE - S/N			65K AIC		
LOCATION: MAIN 1 OF 2		1200 AMPS. <input checked="" type="checkbox"/> MAIN BKR. <input type="checkbox"/> MAIN SW. <input type="checkbox"/> M.L.O. @ 480 VOLTS			480 VOLTS		
		<input checked="" type="checkbox"/> GND. FAULT PROT. <input type="checkbox"/> SHUNT-TRIP <input type="checkbox"/> TOP OR <input checked="" type="checkbox"/> BOTTOM FED					
CKT. NO.	DESCRIPTION OF LOAD	BRANCH SIZE (AMPS)			FEEDER SIZE		KVA
		NO. OF POLES	FRAME	TRIP	WIRE	CONDUIT	
1	PANEL "NLDP1" VIA 225 XFMR.	3	400	350	AL. 3#600 MCM, 1#3 CU. (G)	3"	247.1
2	TRANSFORMER N17A-75 KVA	3	250	110	AL. 3#1/0, 1#6 CU. (G)	2"	65.8
3	PANEL "NLDP2" VIA 225 XFMR.	3	400	350	AL. 3#600 MCM, 1#3 CU. (G)	3"	157
4	TRANSFORMER N13A-150 KVA	3	250	225	AL. 3#300 MCM, 1#4 CU. (G)	3"	100.2
5	TRANSFORMER N15A-150 KVA	3	250	225	AL. 3#300 MCM, 1#4 CU. (G)	3"	139.3
6	SPACE	3	400				
7	SPACE	3	400				
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
TOTAL CONNECTED LOAD : (KVA) 709.4							
: (A) 855							

EXISTING

PANEL-NLDP1		120/208 VOLTS, 3 ϕ , 4 WIRE - S/N			42K AIC		
LOCATION:		800 AMPS. <input checked="" type="checkbox"/> MAIN BKR. <input type="checkbox"/> MAIN SW. <input type="checkbox"/> M.L.O. @ 208 VOLTS			208 VOLTS		
		<input type="checkbox"/> GND. FAULT PROT. <input type="checkbox"/> SHUNT-TRIP <input type="checkbox"/> TOP OR <input checked="" type="checkbox"/> BOTTOM FED					
CKT. NO.	DESCRIPTION OF LOAD	BRANCH SIZE (AMPS)			FEEDER SIZE		KVA
		NO. OF POLES	FRAME	TRIP	WIRE	CONDUIT	
1	PANEL "NL2A"				AL. 4#300 MCM, 1#4 CU. (G)	4"	40.4
2	PANEL "NL7A"				AL. 4#2/0, 1#6 CU. (G)	2 1/2"	16.8
3	PANEL "NL1A"				AL. 4#300 MCM, 1#4 CU. (G)	3"	63.3
4	PANEL "B"				AL. 4#300 MCM, 1#4 CU. (G)	3"	38.3
5	PANEL "P"				AL. 4#1/0, 1#8 CU. (G)	1 1/2"	21.7
6	PANEL "NL8A"				AL. 4#300 MCM, 1#4 CU. (G)	2 1/2"	66.6
7	SPACE						
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
TOTAL CONNECTED LOAD: (KVA) 247.1							
(AMPS) 686							



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REVISIONS

REVISIONS
▲ BLDG. DEPT. 10.08.09



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 Electrical Plans Examiner
 4385 COLLINS AVENUE, MIAMI BEACH, FL. 33140
 JOB NO. 05035
 1ST & 7TH FLOOR KITCHENS
 CONSTRUCTION DOCUMENTS

E-7

09.15.2009

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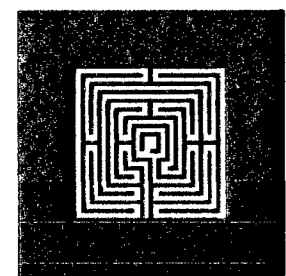
EXISTING

PANEL-NRAC		277/480 VOLTS, 3 ϕ , 4 WIRE - S/N			25K AIC		
NEMA 3R		1200 AMPS. <input type="checkbox"/> MAIN BKR. <input type="checkbox"/> MAIN SW. <input checked="" type="checkbox"/> M.L.O.			@ 480 VOLTS		
LOCATION: CHILLER. RM. EXTERIOR		<input type="checkbox"/> GND. FAULT PROT. <input type="checkbox"/> SHUNT-TRIP <input type="checkbox"/> TOP OR <input checked="" type="checkbox"/> BOTTOM FED					
CKT. NO.	DESCRIPTION OF LOAD	BRANCH SIZE (AMPS)			FEEDER SIZE		KVA
		NO. OF POLES	FRAME	TRIP	WIRE	CONDUIT	
1	CH-1	3	400	350	3 #500MCM, 1#3 (G)	3"	190
2	MOTOR CONTROL CENTER	3	250	200	3 #3/0, 1#6 (G)	2"	104
3	SPACE	3	250				
4	OAU-1	3	250	90	3 #3, 1#8 (G)	1 1/2"	47
5	OAU-2	3	250	125	3 #1, 1#6 (G)	1 1/2"	68
6	CT-1	3	100	40	3 #8, 1#10 (G)	3/4"	17
7	CT-2	3	100	40	3 #8, 1#10 (G)	3/4"	17
8	OAU-3	3	250	125	3 #1, 1#6 (G)	1 1/2"	68
9	CH-2	3	400	350	3 #500MCM, 1#3 (G)	3"	190
10	AHU-6	3	100	20	3#12, 1#12 (G)	3/4"	6.3
11	EDH-6	3	100	40	3#8, 1#10 (G)	3/4"	24
12	ITEM 3-10	3	100	40	3#8, 1#10 (G)	3/4"	22.5
13							
14							
15							
16							
17							
18							
19							
20							
TOTAL CONNECTED LOAD: (KVA) 744.5							
(A) 897							

* EXISTING BREAKERS TO REMAIN.
 ● PROVIDE BREAKER AND ASSOCIATED WIRE AND CONDUIT AS SHOWN.

PANEL-K7		120/208 VOLTS, 3 ϕ , 4 WIRE			<input checked="" type="checkbox"/> NEUTRAL		<input type="checkbox"/> MAIN BKR.							
LOCATION:		225 AMP BUS			<input checked="" type="checkbox"/> FULL		FRAME - A.							
<input checked="" type="checkbox"/> FLUSH <input type="checkbox"/> TOP FEED		<input checked="" type="checkbox"/> GROUND BUS			<input type="checkbox"/> 50%		TRIP - A.							
<input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> BOTTOM FEED		NEMA 1			<input type="checkbox"/> 200%		<input type="checkbox"/> SHUNT TRIP							
							10K AIC							
							@ 208 VOLTS							
LOAD DESCRIPTION	WIRE & CONDUIT	POLE	AMP TRIP	CKT. K.V.A.	CKT. No.	LOAD (KVA)			CKT. No.	CKT. K.V.A.	AMP TRIP	POLE	WIRE & CONDUIT	LOAD DESCRIPTION
						ØA	ØB	ØC						
SPACE						2.8			2	2.8	40	2	#8, 3/4"	ITEM 3-51
ITEM 3-57	#12, 1/2"	2	20	1.1	3	3.9			4	2.8				SPARE
ITEM 3-50	#12, 1/2"	1	20	0.6	7	0.85			6	0.1	20	1	#12, 1/2"	ITEM 3-49
ITEM 3-48	#12, 1/2"	1	20	1.1	9	1.3			8	0.25	20	1		ITEM 3-61
ITEM 3-60	#12, 1/2"	1	20	1.2	11	1.6			10	0.2	20	1		ITEM 3-47
ITEM 3-60	#12, 1/2"	1	20	1.2	13	3.0			12	0.35	20	1		ITEM 3-62
	4#6,	3		5.4	15	7.1			14	1.8	20	1		ITEM 3-64
PANEL	1#10(G)		60	5.4	17	6.7			16	1.7	20	1		ITEM 3-65
	1"			5.4	19	6.4			18	1.3	20	1		ITEM 3-53
ITEM 3-19	#12, 1/2"	1	20	0.2	21	1.2			20	1.0	20	1		ITEM 3-05
ITEM 3-26	#12, 1/2"	1	20	0.5	23	1.8			22	1.0				ITEM 3-05
ITEM 3-38	#10, 3/4"	2	30	1.8	25	2.0			24	1.3				ITEM 3-06
				1.8	27	2.4			26	0.2				ITEM 3-34
ITEM 3-42	#12, 1/2"	1	20	0.8	29	1.6			28	0.6				KEF-1
ITEM 3-44	#12, 1/2"	1	20	1.4	31	1.9			30	0.8				KEF-3
ITEM 3-44	#12, 1/2"	1	20	1.5	33	2.0			32	0.5				SPARE
ITEM 3-44B	#12, 1/2"	1	20	0.2	35	0.7			34	0.5				
ITEM 3-01	#12, 1/2"	1	20	0.8	37	1.2			36	0.5				
ITEM 3-07	#12, 1/2"	1	20	0.2	39	0.8			38	0.5				
ANSUL SYSTEM	#12, 1/2"	1	20	0.4	41	0.6			40	0.6			#12, 1/2"	HOOD LTS.
									42	0.2			#12, 1/2"	GAS SOLENDID VALVE
						17.8	18	13.2						
TOTAL CONNECTED LOAD: 49 KVA; 136 AMPS.										DEMAND LOAD PER N.E.C. TABLE 220.20 49KVA @ 65% = 32KVA				

* EXISTING BRANCH BREAKERS.
 ● VIA 6 POLE, 20 AMP CONTACTOR AND RELAY TO SHUT-DOWN COOKING EQUIPMENT ACTIVATED BY ANSUL SYSTEM MICRO SWITCH.



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REVISIONS	REVISIONS

9.11.09



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 JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
 CONSTRUCTION DOCUMENTS

E-7

09.15.2009

KITCHEN ELECTRICAL NOTES

- UTILITIES SHOWN ARE THE MINIMUM REQUIRED FOR THE FOOD SERVICE EQUIPMENT. LOCATION, QUANTITY & SIZE OF ADDITIONAL UTILITIES, IF DESIRED/REQUIRED, ARE TO BE PROVIDED BY OTHERS.
- FINAL CONNECTIONS TO EQUIPMENT & INTER-CONNECTIONS BETWEEN COMPONENTS ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
- UNLESS OTHERWISE NOTED IN THESE DRAWINGS, COMPONENTS SUCH AS (BUT NOT LIMITED TO) WIRE, CONDUIT, SWITCHES, SAFETY DEVICES, OVER CURRENT & GROUND FAULT PROTECTION DEVICES & DISCONNECT SWITCHES SHALL BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR.
- UNLESS OTHERWISE NOTED IN THESE DRAWINGS OR AS RESTRICTED BY CODE, UTILITIES SHALL BE CONCEALED IN & STUBBED OUT OF BUILDING WALLS.
- COMPONENTS SUCH AS (BUT NOT LIMITED TO) SWITCHES, SAFETY DEVICES, OVER CURRENT & GROUND FAULT PROTECTION DEVICES & DISCONNECT SWITCHES SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE WITH THE OPERATION OF THE EQUIPMENT.
- NEMA CONFIGURATION DESIGNATIONS ARE PROVIDED TO ENSURE THAT RECEPTACLES PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR MATCH THE PLUG CONFIGURATION PROVIDED WITH THE EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE & INSTALL DISCONNECT SWITCHES AS REQUIRED BY APPLICABLE CODE(S) & ANY GOVERNING OFFICIAL HAVING JURISDICTION.
- LINE VOLTAGE CONTROL CIRCUIT & INTER-WIRING BETWEEN WALK-IN BOX COMPONENTS SUCH AS (BUT NOT LIMITED TO) CONDENSING UNITS, REFRIGERATION RACKS, EVAPORATOR COILS, TIME CLOCKS & TEMPERATURE CONTROLS ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
- UNLESS OTHERWISE NOTED IN THESE DRAWINGS HEATER CABLE SHALL PROVIDED BY BARING & SHALL BE FLEXIBLE, SELF-REGULATING TYPE RATED @ 3 WATTS PER FOOT.
- CONDENSATE DRAIN PIPE FROM WALK-IN FREEZER COMPARTMENTS SHALL BE WRAPPED WITH HEATER CABLE BY THE ELECTRICAL CONTRACTOR.
- WALK-IN BOX LIGHT FIXTURES SHIPPED LOOSE SHALL BE MOUNTED AND INTER-WIRED BY THE ELECTRICAL CONTRACTOR.
- LINE VOLTAGE CONTROL CIRCUIT & INTER-WIRING BETWEEN EXHAUST VENTILATOR COMPONENTS SUCH AS (BUT NOT LIMITED TO) LIGHT FIXTURES, CONTROL PANELS, FANS, MAGNETIC CONTACTORS, MOTORIZED DAMPERS & THE BUILDING ALARM SYSTEM ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
- LINE VOLTAGE CONTROL CIRCUIT & INTER-WIRING BETWEEN FIRE SUPPRESSION SYSTEM COMPONENTS SUCH AS (BUT NOT LIMITED TO) CONTROL PANELS, AGENT CABINETS, REMOTE PULL STATIONS & THE BUILDING ALARM SYSTEM ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
- FIRE SUPPRESSION SYSTEM REMOTE PULL STATION REQUIRES A 4" x 4" OCTAGON J-BOX W/SCREW HOLES @ 2- & 8-O'CLOCK POSITIONS. ELECTRICAL CONTRACTOR SHALL RECESS THE J-BOX IN THE BUILDING WALL & PROVIDE EMPTY CONDUIT FROM THE TOP OF THE J-BOX STUBBED OUT THE BLDG WALL 6" ABOVE THE FINISHED CLG.
- ELECTRICAL CONTRACTOR SHALL VERIFY FIRE SUPPRESSION SYSTEM REMOTE PULL STATION LOCATIONS WITH THE GOVERNING OFFICIAL HAVING JURISDICTION PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL VERIFY TO WHICH BLDG SYSTEMS THE FIRE SUPPRESSION SYSTEM SHALL BE INTER-CONNECTED.
- LINE VOLTAGE CONTROL CIRCUIT & INTER-WIRING BETWEEN WASTE SYSTEM COMPONENTS SUCH AS (BUT NOT LIMITED TO) CONTROL PANELS, START-STOP SWITCHES, DISPOSERS, PULPERS & TROUGH COLLECTORS ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
- LINE VOLTAGE CONTROL CIRCUIT & INTER-WIRING BETWEEN WAREWASHING EQUIPMENT COMPONENTS SUCH AS (BUT NOT LIMITED TO) CONTROL PANELS, VENT FAN CONTROL, DETERGENT & SANITIZER DISPENSERS, TABLE LIMIT SWITCHES & WATER BOOSTER HEATERS ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
- UNLESS OTHERWISE STIPULATED BY APPLICABLE CODE, ALL 120-VOLT RECEPTACLES SHALL BE GFCI TYPE.
- POWER SERVICE TO COMPUTER AND POINT-OF-SALE EQUIPMENT SHALL BE ON A DEDICATED CIRCUIT WITH ISOLATED GROUND.
- POINT-OF-SALE EQUIPMENT REQUIRES AN EMPTY J-BOX AND CONDUIT SUITABLE FOR CATEGORY-5 DATA INTERFACE CABLE. ELECTRICAL CONTRACTOR TO VERIFY ROUTING WITH THE SYSTEM PROVIDER.
- COMPUTER EQUIPMENT REQUIRES A J-BOX AND CONDUIT WITH DATA INTERFACE CABLE & RJ45 ETHERNET CONNECTOR. ELECTRICAL CONTRACTOR TO VERIFY ROUTING WITH THE SYSTEM PROVIDER.
- REFER TO BARING INDUSTRIES FOOD SERVICE DRAWINGS, TO BE SUBMITTED AS PART OF KITCHEN PACKAGE, FOR ALL EQUIPMENT, CONDUIT, NEMA CONFIGURATION DESIGNATIONS OF EQUIPMENT, HEIGHTS, LOCATIONS, ETC. BARING INDUSTRIES FOOD SERVICE DRAWINGS TO BE USED FOR ALL FOOD SERVICE REQUIREMENTS.

ELECTRICAL GENERAL NOTES:

- MATERIALS AND INSTALLATION, AS A MINIMUM, ARE TO CONFORM WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, N.E.C., LOCAL CODES, ORDINANCES, INCLUDING ALL AMENDMENTS TO THE N.E.C. EQUIPMENT WHERE APPLICABLE, WILL BE LISTED WITH THE UNDERWRITER'S LABORATORIES, INC. QUALITY AND WORKMANSHIP ESTABLISHED BY DRAWINGS AND SPECIFICATIONS ARE NOT TO BE REDUCED BY THE ABOVE MENTIONED CODES.
- BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER MUST BE A CONDITION OF THE SUB CONTRACT.
- ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR TO PAY FOR ALL PERMITS, FEES INSPECTIONS AND TESTINGS.
- ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES. ELECTRICAL CONTRACTOR SHALL CONTACT LOCAL POWER AND TELEPHONE COMPANIES PRIOR TO START OF CONSTRUCTION.
- ALL WIRING SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED, MINIMUM WIRE SIZE SHALL BE #14 AWG, EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER WITH THWN/THHN INSULATION. CONDUCTORS #10 AND SMALLER MAY BE SOLID; ALL THOSE #8 AND LARGER TO BE STRANDED.
- ALL UNDERGROUND RACEWAYS SHALL BE MINIMUM 3/4", SCHEDULE 40 PVC. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST RESISTANT BITUMASTIC PAINT, COPPER NO. 50, AND THREADS SHALL BE COATED WITH ZINC CHROMATE. RIGID STEEL SHALL ALSO BE USED WHEN CONDUIT IS EXPOSED TO EXTERIOR ENVIRONMENT SUCH AS EXTERIOR OF BUILDING OR WHERE IT IS EXPOSED AND SUBJECT TO DAMAGE, INSIDE OF BUILDING.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILINGS WHENEVER POSSIBLE.
- DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION PROOF, ETC.). ENGRAVED LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL DISCONNECT SWITCHES, CONTACTORS AND STARTERS.
- ALL FUSES FOR SAFETY SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE THOSE MANUFACTURED BY EITHER BUSSMAN OR LITTELFUSE. THE CONTRACTOR SHALL FURNISH TO THE OWNER ONE SPARE FUSE FOR EACH SIZE AND TYPE OF FUSE INSTALLED. FUSES 600 AMPS. OR LESS SHALL BE CLASS RK1, TYPICAL UNLESS OTHERWISE NOTED. FUSES OVER 600 AMPS. SHALL BE CLASS L.
- ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT BE PLACED IN PROPER WORKING ORDER.
- A SEPERATE, GREEN TYPE THWN COPPER GROUND CONDUCTOR SHALL BE RUN FROM GROUND LUG OF EACH GROUNDED RECEPTACLE TO AN APPROVED CONNECTION INSIDE THE ENCLOSING STEEL OUTLET BOX. DEVICE MOUNTING SCREWS SHALL NOT BE CONSIDERED AN APPROVED GROUND.

- A SEPERATE GROUND CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT AND RACEWAY AND SECURELY BONDED IN AN APPROVED GROUNDING TERMINAL AT BOTH ENDS OF THE RUN. THE GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH TABLE 250-95 OF THE N.E.C. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE ADDITIONAL CONDUCTOR.
- LOAD DATA IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
- CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
- FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING, AND CONNECTIONS ON AIR CONDITIONING SYSTEM AS SHOWN ON PLANS. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR REGARDING SUPPLY AND INSTALLATION OF ALL REQUIRED CONTROLS.
- ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE IN LINE FUSING AND ENERGY SAVING BALLASTS. (ONLY REQUIRED IN MIAMI DADE COUNTY)
- ALL SWITCHGEAR, PANELS, STARTERS, CONTACTORS ETC., SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER, THE SYSTEM DESIGN IS BASED ON SQUARE "D"; HOWEVER, COMPARABLE EQUIPMENT BY G.E. & SIEMENS WILL BE ACCEPTABLE. TANDDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED.
- TYPEWRITTEN CIRCUIT INDEX SHALL BE AFFIXED TO INSIDE SURFACE OF EACH PANELBOARD DOOR, CLEARLY INDICATING AREA AND TYPE OF LOAD SERVED BY EACH BRANCH CIRCUIT PROTECTIVE DEVICE, INCLUDING SPARES. HAND PRINTED WILL NOT BE ACCEPTED.
- ENGRAVED, LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL PANELS AND SWITCHGEAR. PLATES SHALL BE AFFIXED TO FRONT OF PANELS, INDICATING PANEL NAME, VOLTAGE AND AMPERAGE.
- ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS WHERE SUBJECT TO POSSIBLE DAMAGE. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST-RESISTANT BITUMASTIC PAINT, COPPER NO. 50, AND THREADS SHALL BE COATED WITH ZINC CHROMATE.
- THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL POWER COMPANY AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANY'S RESPONSIBILITIES TO MEET THE OWNER'S SCHEDULE.
- ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY, EMT, IMC, RIGID GALVANIZED CONDUIT OR SCHEDULE 40 PVC MAXIMUM NUMBER OF 120V CIRCUITS ALLOWED IN A COMMON CONDUIT SHALL BE SIX (6). THE CONTRACTOR SHALL STRICTLY CONFORM TO THE N.E.C. REQUIREMENTS OF DERATING FOR CONDUCTOR AMPACITY AND CONDUIT FILL.
- CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

208V SYSTEM	
NEUTRAL	- WHITE
PHASE A	- BLACK
PHASE B	- RED
PHASE C	- BLUE
GRD.CON	- GREEN
- CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER U.L. ASSEMBLY STANDARDS.
- CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF CONTRACT DRAWINGS AT JOB SITE WITH COLORED MARKINGS INDICATING PROGRESS OF WORK. THIS SET OF CONTRACT DRAWINGS IS TO BE SEPERATE FROM AND IN ADDITION TO CONTRACTOR'S CONSTRUCTION SET. EVERY UNIT OF EQUIPMENT, DEVICE, CONDUIT AND WIRE IS TO BE MARKED WHEN INSTALLED. USE GREEN TO INDICATE INSTALLATION AS SHOWN ON RAWINGS AND USE RED TO INDICATE FIELD CHANGES. UPON COMPLETION OF WORK, THIS SET OF CONTRACT DRAWINGS IS TO BE TURNED OVER TO, AND BECOME PROPERTY OF THE ELECTRICAL ENGINEER.
- IF ELECTRICAL CONTRACTOR HAS QUESTIONS, OR IN THEIR OPINION FINDS OMISSIONS OR ERRORS ON ELECTRICAL DOCUMENTS, IT IS THEIR RESPONSIBILITY TO BRING THIS TO THE ATTENTION OF THE ELECTRICAL ENGINEER IMMEDIATELY. IF ELECTRICAL CONTRACTOR PROCEEDS WITH ANY CHANGES TO THE CONTRACT DOCUMENTS, WITHOUT WRITTEN PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER, CONTRACTOR WILL NOT BE COMPENSATED.

SCOPE OF WORK

PLANS SUBMITTED ARE FOR A KITCHEN LOCATED ON THE SEVENTH FLOOR AND A KITCHEN LOCATED ON THE SEVENTH FLOOR. BOTH KITCHENS LIGHTING AND FIRE ALARM ARE UNDER A BASE BUILDING PERMIT.

FIRST FLOOR KITCHEN, (DWG E-1) SHOWS ALL REQUIRED CIRCUITS FOR KITCHEN EQUIPMENT EITHER NEXT TO KITCHEN EQUIP. ITEM No. OR AT KITCHEN EQUIPMENT SCHEDULE.

SEVENTH FLOOR KITCHEN, (DWG E-2) IS THE SAME AS STATED FOR FIRST FLOOR KITCHEN.

ROOF PLAN, (DWG E-3) SHOWS ALL KITCHEN EXHAUST AND SUPPLY FANS FOR BOTH KITCHENS. REFER TO MECH. DWGS AS WELL FOR REFERENCE.

SHEET E-4 SHOWS FIRST AND SEVENTH FLOOR KITCHEN FIRE ALARM AND LIGHTING FOR REFERENCE ONLY. THIS WORK IS UNDER BASE BUILDING PERMIT.

SHEET E-5 SHOWS PARTIAL ELECTRICAL RISER DIAGRAM DEPICTING ADDITIONAL ELECTRICAL GEAR REQUIRED. NOTE THAT EVERYTHING SHOWN DASHED IS EXISTING TO REMAIN AND ANY NEW WORK IS SHOWN SOLID.

SHEETS E-6 AND E-7 ARE PANEL SCHEDULES. NOTE PANELS THAT ARE LABELED ARE EXISTING AND NOTE BREAKERS TO BE ADDED PER NOTES ON SPECIFIC PANELS.

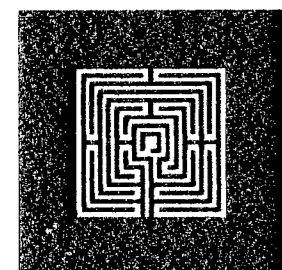
NOTE:
FIRE ALARM SEQUENCE OF OPERATION IS PART OF THE BASE BUILDING PERMIT, SHOWN FOR REFERENCE ONLY.

FIRE ALARM --SEQUENCE OF OPERATION

- SMOKE EVACUATION - 1ST FL./2ND FL. GENERAL AREAS, KITCHEN & ALL CORRIDORS IN EXISTING BUILDING. NO SMOKE EVACUATION IN TOWER VESTIBULE
 - SMOKE EVACUATION - ACTIVATION
 - UPON ACTIVATION OF ANY SMOKE DETECTOR, OR WATER FLOW DETECTORS.
 - SYSTEM ALARM AT F.A.C.P.
 - ACTIVATE ALL AUDIBLE/VISUAL DEVICES IN BUILDING.
 - NOTIFICATION OF ALARM VIA AUTO DIALER.
 - MAKE-UP AIR FANS START BY AUTOMATIC MEANS.
 - SMOKE EVACUATION/EXHAUST FANS OPERATE.
 - STAIR PRESSURIZATION FANS ACTIVATE.
 - MAGNETIC DOOR HOLDERS RELEASE DOORS. FOR CLOSURE.
 - EMERGENCY DIMMING PANEL TO HAVE LIGHTS GO TO FULL BRIGHT.
 - AUDIO MUSIC SYSTEM TO SHUT-DOWN.
 - KITCHEN (SMOKE EVACUATION OR ANSUL SYSTEM ACTIVATED)
 - ITEMS a) THRU f) APPLY ABOVE.
 - HOOD FANS SHUT-DOWN.
 - FIRE ALARM PANEL TO MONITOR ANSUL CONTROL.
 - GAS TO SHUT-DOWN VIA SOLENOID VALVE.
- STAIR PRESSURIZATION (NO SMOKE EVACUATION)
 - UPON ACTIVATION OF A CORRIDOR SMOKE DETECTOR, STAIRWELL FAN PRESSURIZATION FANS WILL START.
 - MAGNETIC DOOR HOLDERS RELEASE DOORS.
- WATER FLOW DETECTION @ UNIT FLOORS
 - UPON WATER FLOW DETECTION ON FLOORS 3 THRU 7 AT EXISTING BUILDING (ASSUME FIRE IS IN UNITS/NO CORRIDOR SO ACTIVATED) PRESSURIZE FLOOR OF INCIDENCE. ALL OTHER FLOORS TO REMAIN IN NEUTRAL STATE.
 - MAGNETIC DOOR HOLDERS RELEASE DOORS.
- TOWER SUITES:
 - UPON ACTIVATION OF TOWER SUITES LEVEL SMOKE DETECTOR THE FOLLOWING WILL OCCUR:
 - AHU'S SHUT-DOWN FOR CORRIDOR
 - STAIR PRESSURIZATION FANS OPERATE
 - MAGNETIC DOOR HOLDERS RELEASE DOORS.
- PULL STATIONS OPERATE GENERAL ALARM THROUGHOUT.
- SMOKE BOMB LOCATION SHOWN ON FLOOR PLAN FOR TESTING.

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CONSTRUCTION DOCUMENTS

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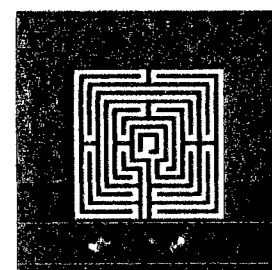
KITCHEN ELECTRICAL NOTES:

1. UTILITIES SHOWN ARE THE MINIMUM REQUIRED FOR THE FOOD SERVICE EQUIPMENT. LOCATION, QUANTITY & SIZE OF ADDITIONAL UTILITIES, IF DESIRED/REQUIRED, ARE TO BE PROVIDED BY OTHERS.
2. FINAL CONNECTIONS TO EQUIPMENT & INTER-CONNECTIONS BETWEEN COMPONENTS ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
3. UNLESS OTHERWISE NOTED IN THESE DRAWINGS, COMPONENTS SUCH AS (BUT NOT LIMITED TO) WIRE, CONDUIT, SWITCHES, SAFETY DEVICES, OVER CURRENT & GROUND FAULT PROTECTION DEVICES & DISCONNECT SWITCHES SHALL BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. UNLESS OTHERWISE NOTED IN THESE DRAWINGS OR AS RESTRICTED BY CODE, UTILITIES SHALL BE CONCEALED IN & STUBBED OUT OF BUILDING WALLS.
5. COMPONENTS SUCH AS (BUT NOT LIMITED TO) SWITCHES, SAFETY DEVICES, OVER CURRENT & GROUND FAULT PROTECTION DEVICES & DISCONNECT SWITCHES SHALL BE LOCATED SO THAT THEY DO NOT INTERFERE WITH THE OPERATION OF THE EQUIPMENT.
6. NEMA CONFIGURATION DESIGNATIONS ARE PROVIDED TO ENSURE THAT RECEPTACLES PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR MATCH THE PLUG CONFIGURATION PROVIDED WITH THE EQUIPMENT.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE & INSTALL DISCONNECT SWITCHES AS REQUIRED BY APPLICABLE CODE(S) & ANY GOVERNING OFFICIAL HAVING JURISDICTION.
8. LINE VOLTAGE CONTROL CIRCUIT & INTER-WIRING BETWEEN WALK-IN BOX COMPONENTS SUCH AS (BUT NOT LIMITED TO) CONDENSING UNITS, REFRIGERATION RACKS, EVAPORATOR COILS, TIME CLOCKS & TEMPERATURE CONTROLS ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
9. UNLESS OTHERWISE NOTED IN THESE DRAWINGS HEATER CABLE SHALL PROVIDED BY BARING & SHALL BE FLEXIBLE, SELF-REGULATING TYPE RATED @ 3 WATTS PER FOOT.
10. CONDENSATE DRAIN PIPE FROM WALK-IN FREEZER COMPARTMENTS SHALL BE WRAPPED WITH HEATER CABLE BY THE ELECTRICAL CONTRACTOR.
11. WALK-IN BOX LIGHT FIXTURES SHIPPED LOOSE SHALL BE MOUNTED AND INTER-WIRED BY THE ELECTRICAL CONTRACTOR.
12. LINE VOLTAGE CONTROL CIRCUIT & INTER-WIRING BETWEEN EXHAUST VENTILATOR COMPONENTS SUCH AS (BUT NOT LIMITED TO) LIGHT FIXTURES, CONTROL PANELS, FANS, MAGNETIC CONTACTORS, MOTORIZED DAMPERS & THE BUILDING ALARM SYSTEM ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
13. LINE VOLTAGE CONTROL CIRCUIT & INTER-WIRING BETWEEN FIRE SUPPRESSION SYSTEM COMPONENTS SUCH AS (BUT NOT LIMITED TO) CONTROL PANELS, AGENT CABINETS, REMOTE PULL STATIONS & THE BUILDING ALARM SYSTEM ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
14. FIRE SUPPRESSION SYSTEM REMOTE PULL STATION REQUIRES A 4" x 4" OCTAGON J-BOX W/SCREW HOLES @ 2- & 8-O'CLOCK POSITIONS. ELECTRICAL CONTRACTOR SHALL RECESS THE J-BOX IN THE BUILDING WALL & PROVIDE EMPTY CONDUIT FROM THE TOP OF THE J-BOX STUBBED OUT THE BLDG WALL 6" ABOVE THE FINISHED CLG.
15. ELECTRICAL CONTRACTOR SHALL VERIFY FIRE SUPPRESSION SYSTEM REMOTE PULL STATION LOCATIONS WITH THE GOVERNING OFFICIAL HAVING JURISDICTION PRIOR TO ROUGH-IN.
16. ELECTRICAL CONTRACTOR SHALL VERIFY TO WHICH BLDG SYSTEMS THE FIRE SUPPRESSION SYSTEM SHALL BE INTER-CONNECTED.
17. LINE VOLTAGE CONTROL CIRCUIT & INTER-WIRING BETWEEN WASTE SYSTEM COMPONENTS SUCH AS (BUT NOT LIMITED TO) CONTROL PANELS, START-STOP SWITCHES, DISPOSERS, PUPLERS & TROUGH COLLECTORS ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
18. LINE VOLTAGE CONTROL CIRCUIT & INTER-WIRING BETWEEN WAREWASHING EQUIPMENT COMPONENTS SUCH AS (BUT NOT LIMITED TO) CONTROL PANELS, VENT FAN CONTROL, DETERGENT & SANITIZER DISPENSERS, TABLE LIMIT SWITCHES & WATER BOOSTER HEATERS ARE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
19. UNLESS OTHERWISE STIPULATED BY APPLICABLE CODE, ALL 120-VOLT RECEPTACLES SHALL BE GFCI TYPE.
20. POWER SERVICE TO COMPUTER AND POINT-OF-SALE EQUIPMENT SHALL BE ON A DEDICATED CIRCUIT WITH ISOLATED GROUND.
21. POINT-OF-SALE EQUIPMENT REQUIRES AN EMPTY J-BOX AND CONDUIT SUITABLE FOR CATEGORY-5 DATA INTERFACE CABLE. ELECTRICAL CONTRACTOR TO VERIFY ROUTING WITH THE SYSTEM PROVIDER.
22. COMPUTER EQUIPMENT REQUIRES A J-BOX AND CONDUIT WITH DATA INTERFACE CABLE & RJ45 ETHERNET CONNECTOR. ELECTRICAL CONTRACTOR TO VERIFY ROUTING WITH THE SYSTEM PROVIDER.
23. REFER TO BARING INDUSTRIES FOOD SERVICE DRAWINGS, TO BE SUBMITTED AS PART OF KITCHEN PACKAGE, FOR ALL EQUIPMENT, CONDUIT, NEMA CONFIGURATION DESIGNATIONS OF EQUIPMENT, HEIGHTS, LOCATIONS, ETC. BARING INDUSTRIES FOOD SERVICE DRAWINGS TO BE USED FOR ALL FOOD SERVICE REQUIREMENTS.

ELECTRICAL GENERAL NOTES:

1. MATERIALS AND INSTALLATION, AS A MINIMUM, ARE TO CONFORM WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, N.E.C., LOCAL CODES, ORDINANCES, INCLUDING ALL AMENDMENTS TO THE N.E.C. EQUIPMENT WHERE APPLICABLE, WILL BE LISTED WITH THE UNDERWRITER'S LABORATORIES, INC. QUALITY AND WORKMANSHIP ESTABLISHED BY DRAWINGS AND SPECIFICATIONS ARE NOT TO BE REDUCED BY THE ABOVE MENTIONED CODES.
2. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER MUST BE A CONDITION OF THE SUB CONTRACT.
4. ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
5. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
6. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
7. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
8. CONTRACTOR TO PAY FOR ALL PERMITS, FEES INSPECTIONS AND TESTINGS.
9. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES. ELECTRICAL CONTRACTOR SHALL CONTACT LOCAL POWER AND TELEPHONE COMPANIES PRIOR TO START OF CONSTRUCTION.
10. ALL WIRING SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED, MINIMUM WIRE SIZE SHALL BE #14 AWG, EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER WITH THIN/THIN INSULATION. CONDUCTORS #10 AND SMALLER MAY BE SOLID; ALL THOSE #8 AND LARGER TO BE STRANDED.
11. ALL UNDERGROUND RACEWAYS SHALL BE MINIMUM 3/4", SCHEDULE 40 PVC. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST RESISTANT BITUMASTIC PAINT, COPPER NO. 50, AND THREADS SHALL BE COATED WITH ZINC CHROMATE. RIGID STEEL SHALL ALSO BE USED WHEN CONDUIT IS EXPOSED TO EXTERIOR ENVIRONMENT SUCH AS EXTERIOR OF BUILDING OR WHERE IT IS EXPOSED AND SUBJECT TO DAMAGE, INSIDE OF BUILDING.
12. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILINGS WHENEVER POSSIBLE.
13. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION PROOF, ETC.). ENGRAVED LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL DISCONNECT SWITCHES, CONTACTORS AND STARTERS.
14. ALL FUSES FOR SAFETY SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE THOSE MANUFACTURED BY EITHER BUSSMAN OR LITTLEFUSE. THE CONTRACTOR SHALL FURNISH TO THE OWNER ONE SPARE FUSE FOR EACH SIZE AND TYPE OF FUSE INSTALLED. FUSES 600 AMPS. OR LESS SHALL BE CLASS RK1, TYPICAL UNLESS OTHERWISE NOTED. FUSES OVER 600 AMPS. SHALL BE CLASS L.
15. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.
16. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT BE PLACED IN PROPER WORKING ORDER.
17. A SEPERATE, GREEN TYPE THIN COPPER GROUND CONDUCTOR SHALL BE RUN FROM GROUND LUG OF EACH GROUNDED RECEPTACLE TO AN APPROVED CONNECTION INSIDE THE ENCLOSING STEEL OUTLET BOX. DEVICE MOUNTING SCREWS SHALL NOT BE CONSIDERED AN APPROVED GROUND.

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21. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE IN LINE FUSING AND ENERGY SAVING BALLASTS. (ONLY REQUIRED IN MIAMI DADE COUNTY)
22. ALL SWITCHGEAR, PANELS, STARTERS, CONTACTORS ETC., SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER, THE SYSTEM DESIGN IS BASED ON SQUARE "D"; HOWEVER, COMPARABLE EQUIPMENT BY G.E. & SIEMENS WILL BE ACCEPTABLE. TANDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED.
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24. ENGRAVED, LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL PANELS AND SWITCHGEAR. PLATES SHALL BE AFFIXED TO FRONT OF PANELS, INDICATING PANEL NAME, VOLTAGE AND AMPERAGE.
25. ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS WHERE SUBJECT TO POSSIBLE DAMAGE. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST-RESISTANT BITUMASTIC PAINT, COPPER NO. 50, AND THREADS SHALL BE COATED WITH ZINC CHROMATE.
26. THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL POWER COMPANY AT THE SITE PRIOR TO CONTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANY'S RESPONSIBILITIES TO MEET THE OWNER'S SCHEDULE.
27. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY, EMT, IMC, RIGID GALVANIZED CONDUIT OR SCHEDULE 40 PVC MAXIMUM NUMBER OF 120V CIRCUITS ALLOWED IN A COMMON CONDUIT SHALL BE SIX (6). THE CONTRACTOR SHALL STRICTLY CONFORM TO THE N.E.C. REQUIREMENTS OF DERATING FOR CONDUCTOR AMPACITY AND CONDUIT FILL.
28. CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:
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 - NEUTRAL - WHITE
 - PHASE A - BLACK
 - PHASE B - RED
 - PHASE C - BLUE
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31. IF ELECTRICAL CONTRACTOR HAS Q1UESTIONS, OR IN THEIR OPINION FINDS OMISSIONS OR ERRORS ON ELECTRICAL DOCUMENTS, IT IS THEIR RESPONSIBILITY TO BRING THIS TO THE ATTENTION OF THE ELECTRICAL ENGINEER IMMEDIATELY. IF ELECTRICAL CONTRACTOR PROCEEDS WITH ANY CHANGES TO THE CONTRACT DOCUMENTS, WITHOUT WRITTEN PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER, CONTRACTOR WILL NOT BE COMPENSATED.



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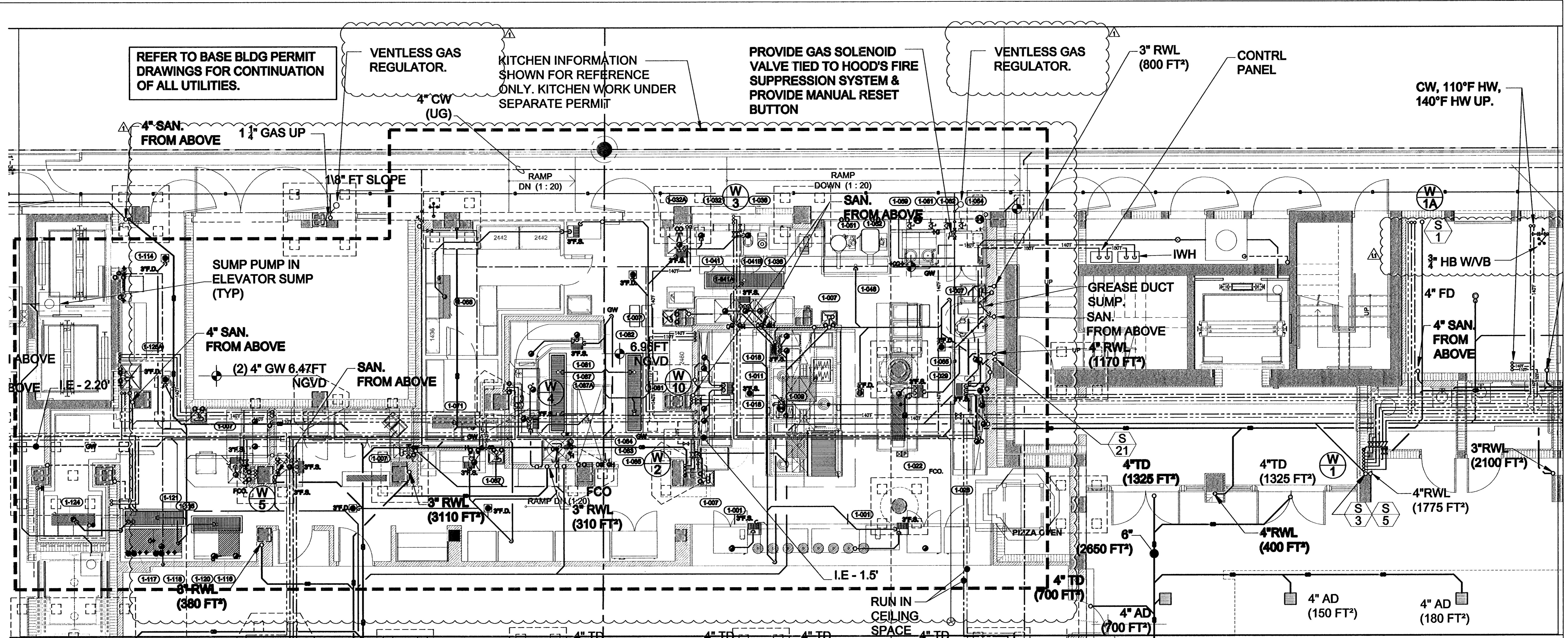
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1ST & 7TH FLOOR KITCHENS

CONSTRUCTION DOCUMENTS

E-8

09.15.2009



REFER TO BASE BLDG PERMIT DRAWINGS FOR CONTINUATION OF ALL UTILITIES.

VENTLESS GAS REGULATOR.

KITCHEN INFORMATION SHOWN FOR REFERENCE ONLY. KITCHEN WORK UNDER SEPARATE PERMIT

PROVIDE GAS SOLENOID VALVE TIED TO HOOD'S FIRE SUPPRESSION SYSTEM & PROVIDE MANUAL RESET BUTTON

VENTLESS GAS REGULATOR.

3" RWL (800 FT²)

CONTRL PANEL

CW, 110°F HW, 140°F HW UP.

PLUMBING PARTIAL GROUND FLOOR PLAN
SCALE: 1/4"=1'-0"

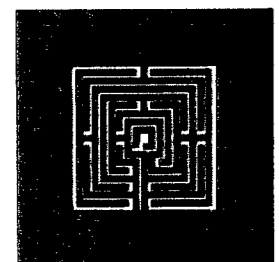
THE SCOPE OF WORK IN THESE DRAWINGS RELATE TO THE CONSTRUCTION OF A KITCHEN ON THE FIRST FLOOR AND A KITCHEN ON THE 7TH FLOOR OF A HOTEL CURRENTLY UNDER CONSTRUCTION UNDER A SEPARATE PERMIT. ALL THE PIPING AROUND THE KITCHENS ARE SHOWN FOR REFERENCE ONLY WITH THE INTENT OF DEMONSTRATING WHERE CONNECTIONS TO BUILDING PIPING ARE TO BE DONE OR NOT DONE. ONLY THE PIPING SERVING THE KITCHEN EQUIPMENT IS BEING PERMITTED IN THIS SET OF DRAWINGS. ALL OTHER PIPING NOT CONNECTING TO KITCHEN EQUIPMENT IS BEING SHOWN FOR REFERENCE ONLY.

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Handwritten date: 12.11.09

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VIDAL & ASSOCIATES INC.
CONSULTING ENGINEERS
2294 N.E. 2ND AVENUE
MIAMI, FL 33137
HENRY VIDAL, P.E., PDB 5830
CONSTRUCTION DOCUMENTS
PHONE: 305.571-1100 FAX: 305.571-1099
EMAIL: VIDAL@VACI.COM



ALLAN T. SHULMAN ARCHITECT, P.A.
(AR 0012783)

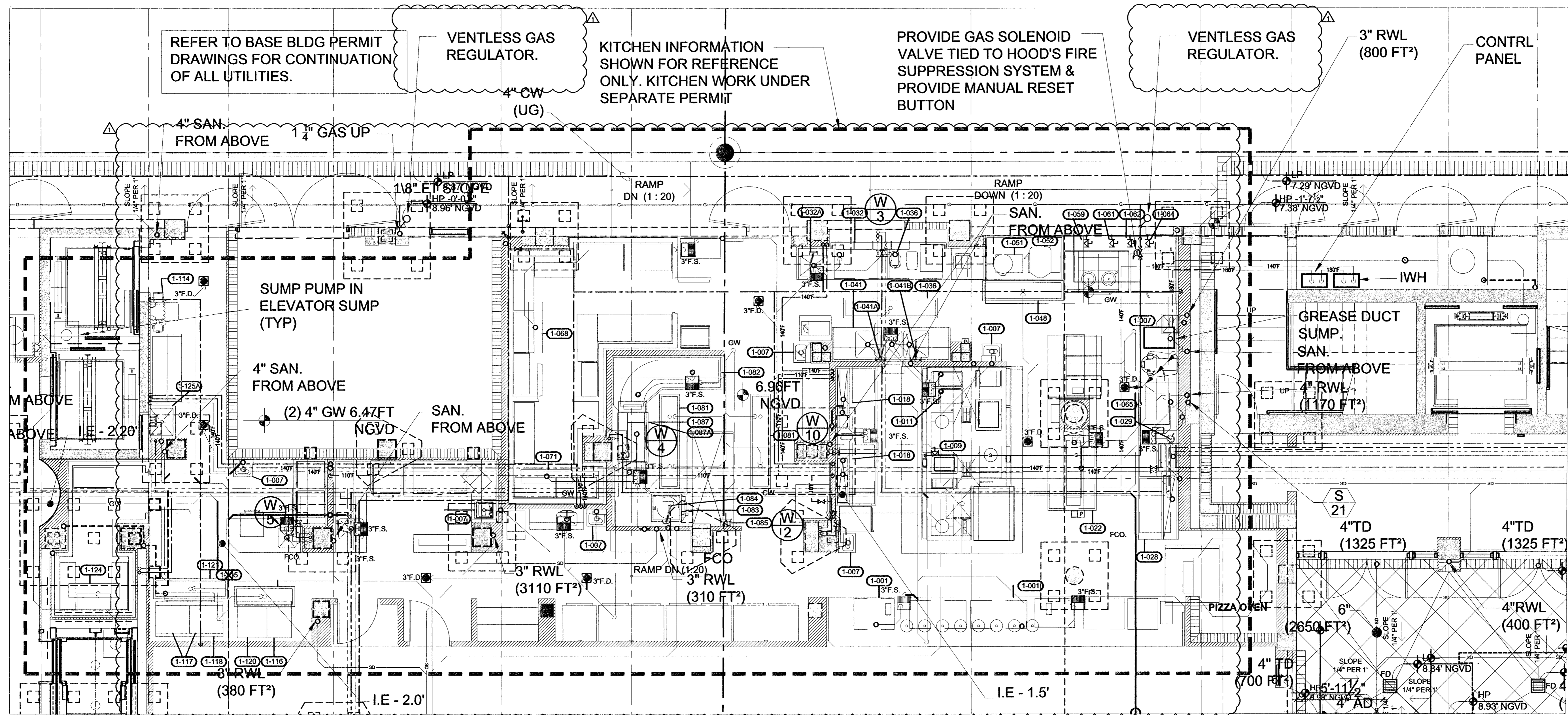
100 NE 38TH STREET, NO. 2 MIAMI, FL 33137
TEL: 305.438.0809 FAX: 305.438.0170

REVISIONS		REVISIONS	
▲	10.29.09	CM	COMMENTS
▲	12.10.09	CM	COMMENTS

SOHO BEACH HOUSE

4395 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05036
1ST & 7TH FLR KITCHENS
CONSTRUCTION DOCUMENTS

P-1.0
08.15.2009



REFER TO BASE BLDG PERMIT DRAWINGS FOR CONTINUATION OF ALL UTILITIES.

VENTLESS GAS REGULATOR.

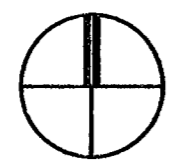
KITCHEN INFORMATION SHOWN FOR REFERENCE ONLY. KITCHEN WORK UNDER SEPARATE PERMIT

PROVIDE GAS SOLENOID VALVE TIED TO HOOD'S FIRE SUPPRESSION SYSTEM & PROVIDE MANUAL RESET BUTTON

VENTLESS GAS REGULATOR.

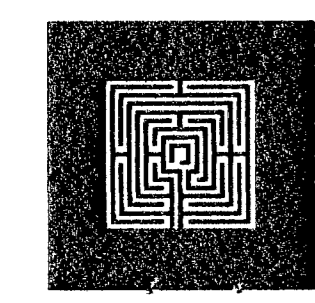
3" RWL (800 FT²)

CONTRL PANEL

 **PLUMBING PARTIAL GROUND FLOOR PLAN**
SCALE: 1/4"=1'-0"

THE SCOPE OF WORK IN THESE DRAWINGS RELATE TO THE CONSTRUCTION OF A KITCHEN ON THE FIRST FLOOR AND A KITCHEN ON THE 7TH FLOOR OF A HOTEL CURRENTLY UNDER CONSTRUCTION UNDER A SEPARATE PERMIT. ALL THE PIPING AROUND THE KITCHENS ARE SHOWN FOR REFERENCE ONLY WITH THE INTENT OF DEMONSTRATING WHERE CONNECTIONS TO BUILDING PIPING ARE TO BE DONE OR NOT DONE. ONLY THE PIPING SERVING THE KITCHEN EQUIPMENT IS BEING PERMITTED IN THIS SET OF DRAWINGS. ALL OTHER PIPING NOT CONNECTING TO KITCHEN EQUIPMENT IS BEING SHOWN FOR REFERENCE ONLY.

Handwritten signature and date:
10/30/09



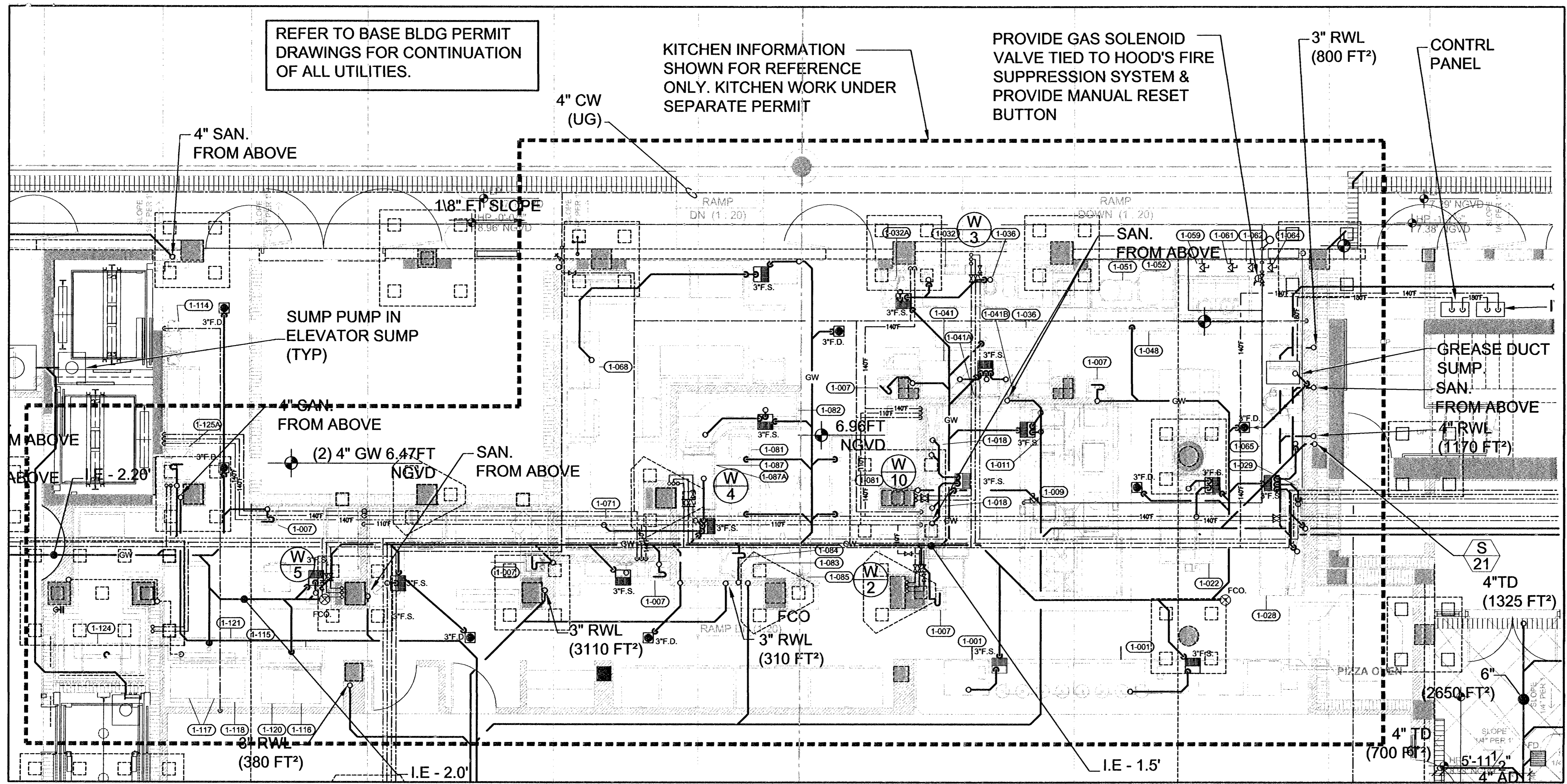
ALLAN T. SHULMAN ARCHITECT, P.A.
(AR 0012763)
100 NE 38TH STREET, NO. 2 MIAMI, FL 33137
TEL: 305.438.0609 FAX: 305.438.0170

REVISIONS	REVISIONS
10.08.09 CMB COMMENTS	

SOHO BEACH HOUSE
4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

VIDAL & ASSOCIATES INC.
CONSULTING ENGINEERS
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CERTIFICATION OF AUTHORIZATION #906
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E-MAIL: VIDAL191@AOL.COM

P-1.0
09.15.2009



REFER TO BASE BLDG PERMIT DRAWINGS FOR CONTINUATION OF ALL UTILITIES.

KITCHEN INFORMATION SHOWN FOR REFERENCE ONLY. KITCHEN WORK UNDER SEPARATE PERMIT

PROVIDE GAS SOLENOID VALVE TIED TO HOOD'S FIRE SUPPRESSION SYSTEM & PROVIDE MANUAL RESET BUTTON

3" RWL (800 FT²)
CONTRL PANEL

SUMP PUMP IN ELEVATOR SUMP (TYP)

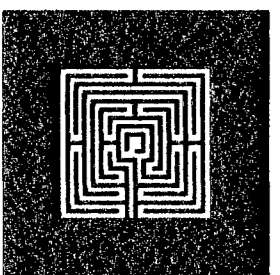
GREASE DUCT SUMP SAN. FROM ABOVE

PLUMBING PARTIAL GROUND FLOOR PLAN
SCALE: 1/4"=1'-0"

REFER TO BASE BLDG PERMIT DWGS FOR GREASE TRAP INFORMATION.

10
9.15.09

VIDAL & ASSOCIATES INC.
CONSULTING ENGINEERS
2234 N.E. 2ND AVENUE
MIAMI, FL 33137
HENRY VIDAL P.E., PE# 56204
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E-MAIL: VIDAL1961@AOL.COM



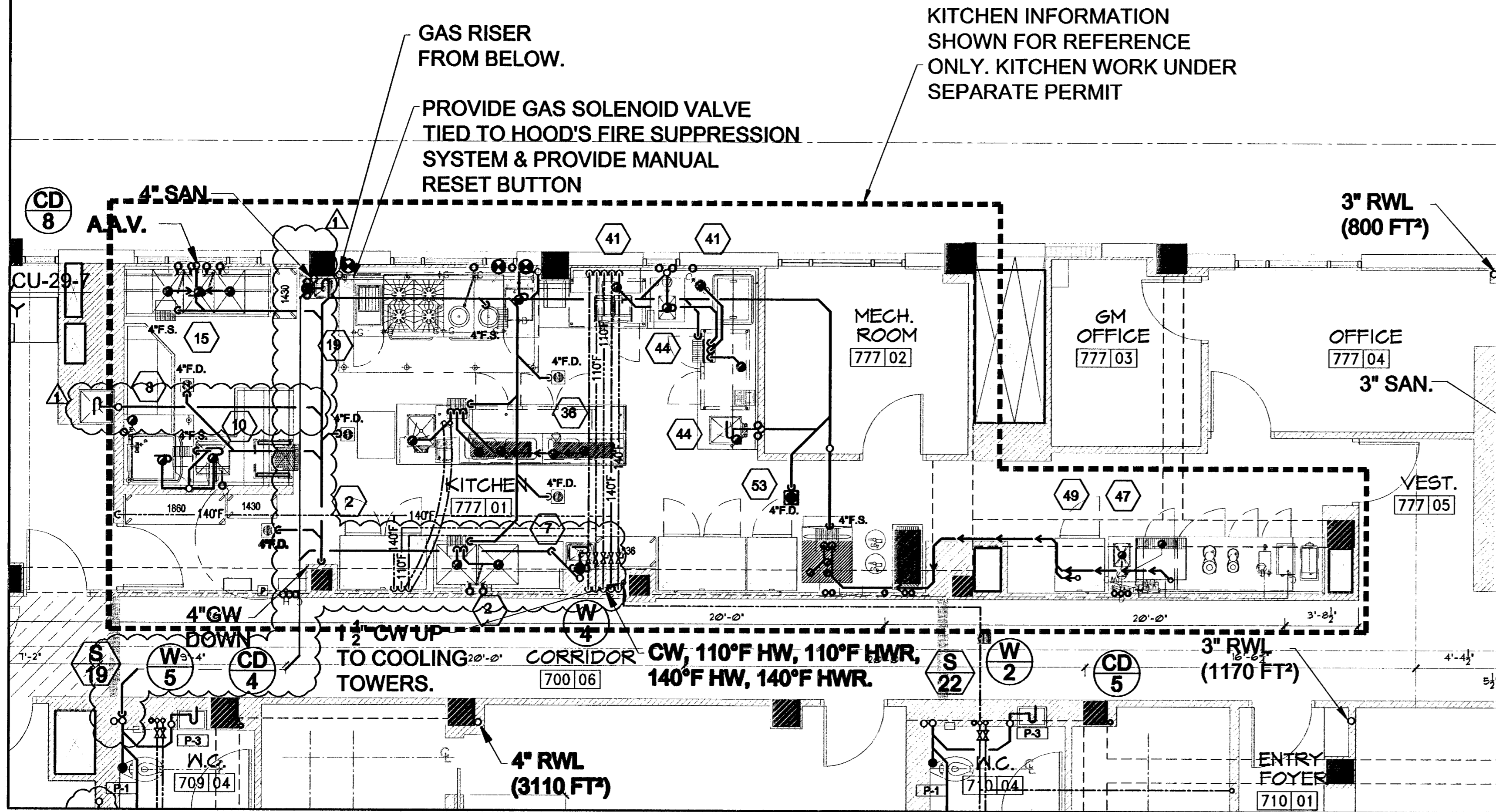
ALLAN T. SHULMAN ARCHITECT, P.A.
(AR 0012763)
100 NE 38TH STREET, NO. 2 MIAMI, FL 33137
TEL: 305.438.0609 FAX: 305.438.0170

REVISIONS	REVISIONS

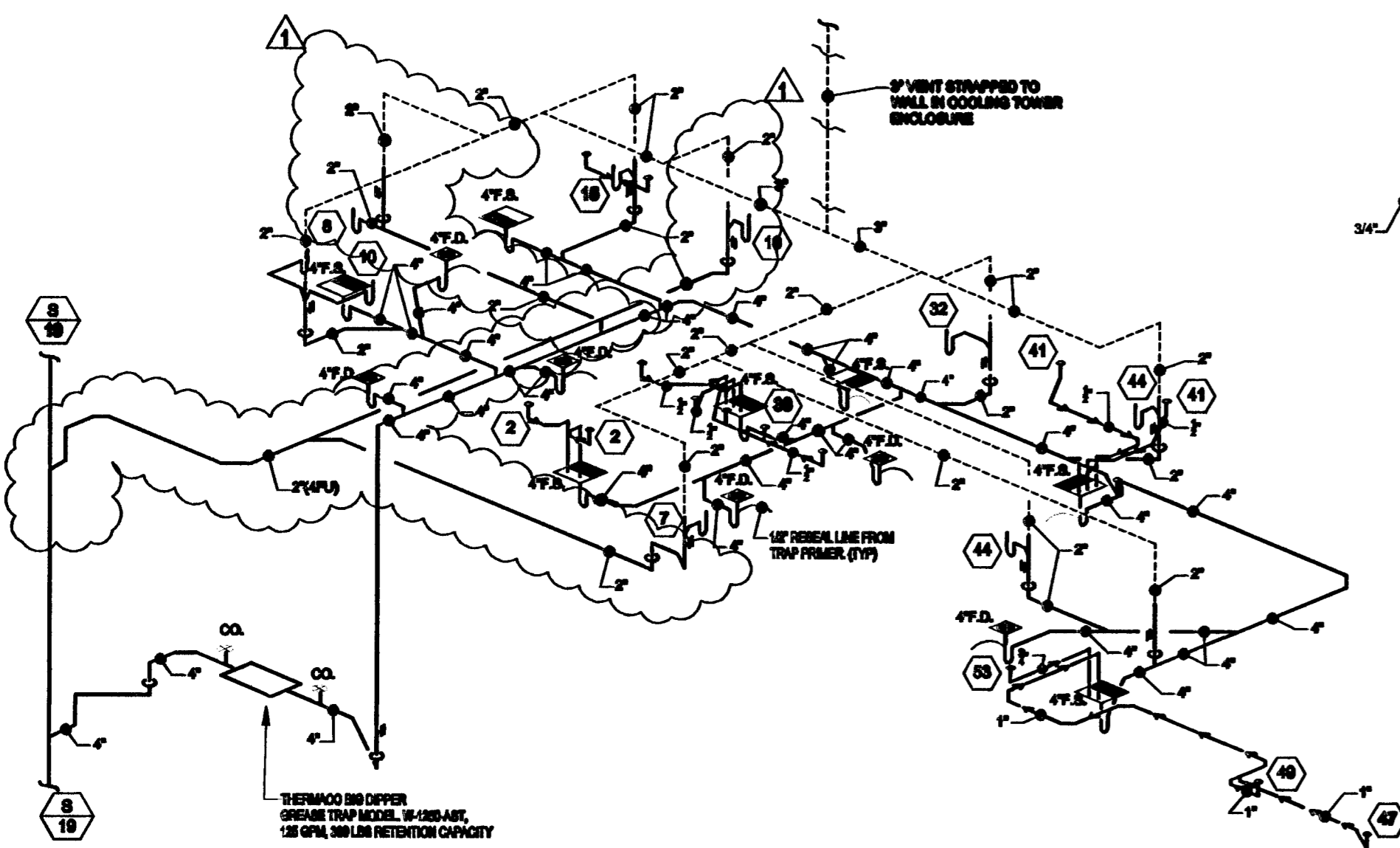
SOHO BEACH HOUSE
4385 COLLINS AVENUE, MIAMI BEACH, FL 33140
JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

P-1.0
09.15.2009

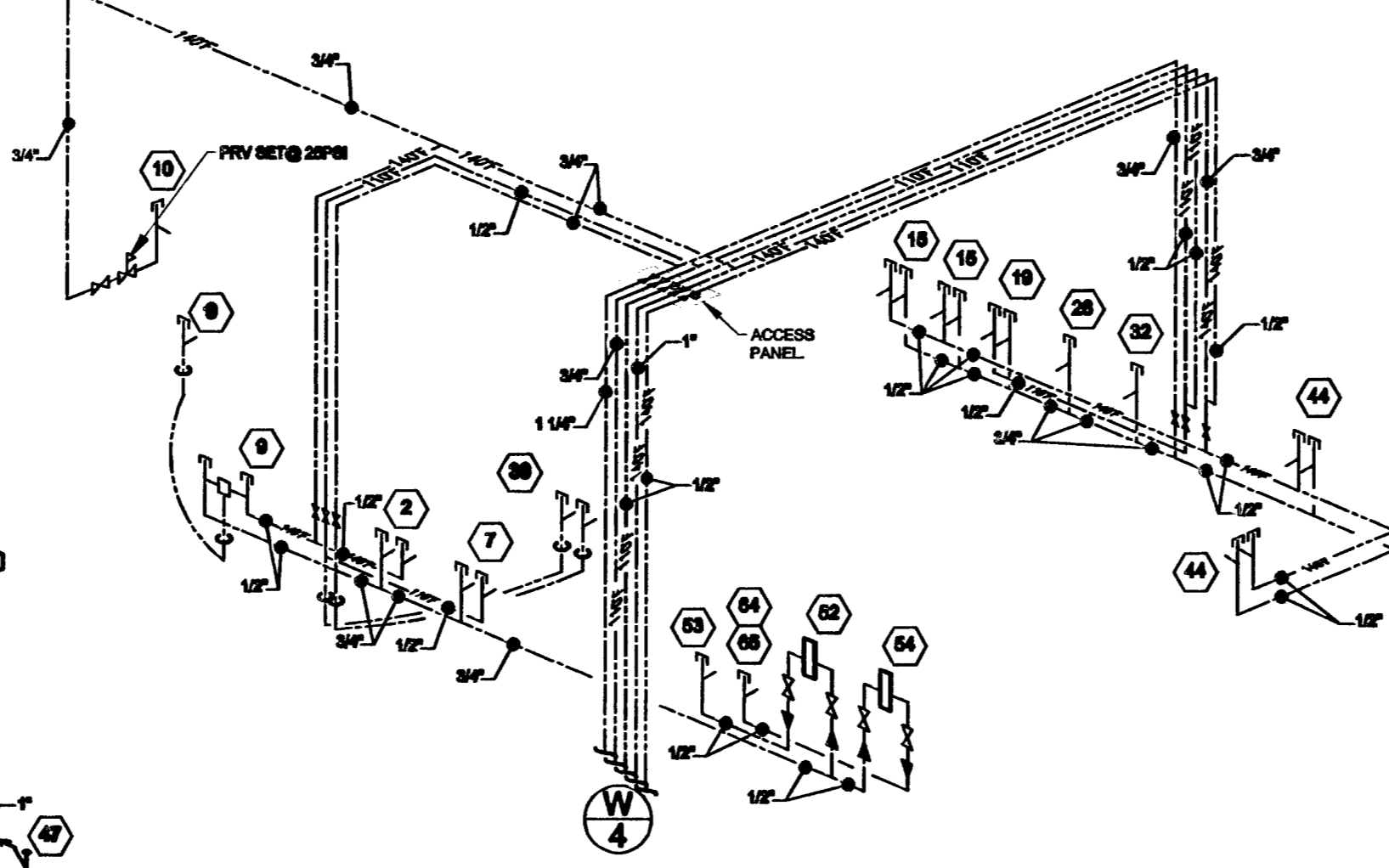
REFER TO BASE BLDG PERMIT DRAWINGS FOR CONTINUATION OF ALL UTILITIES.



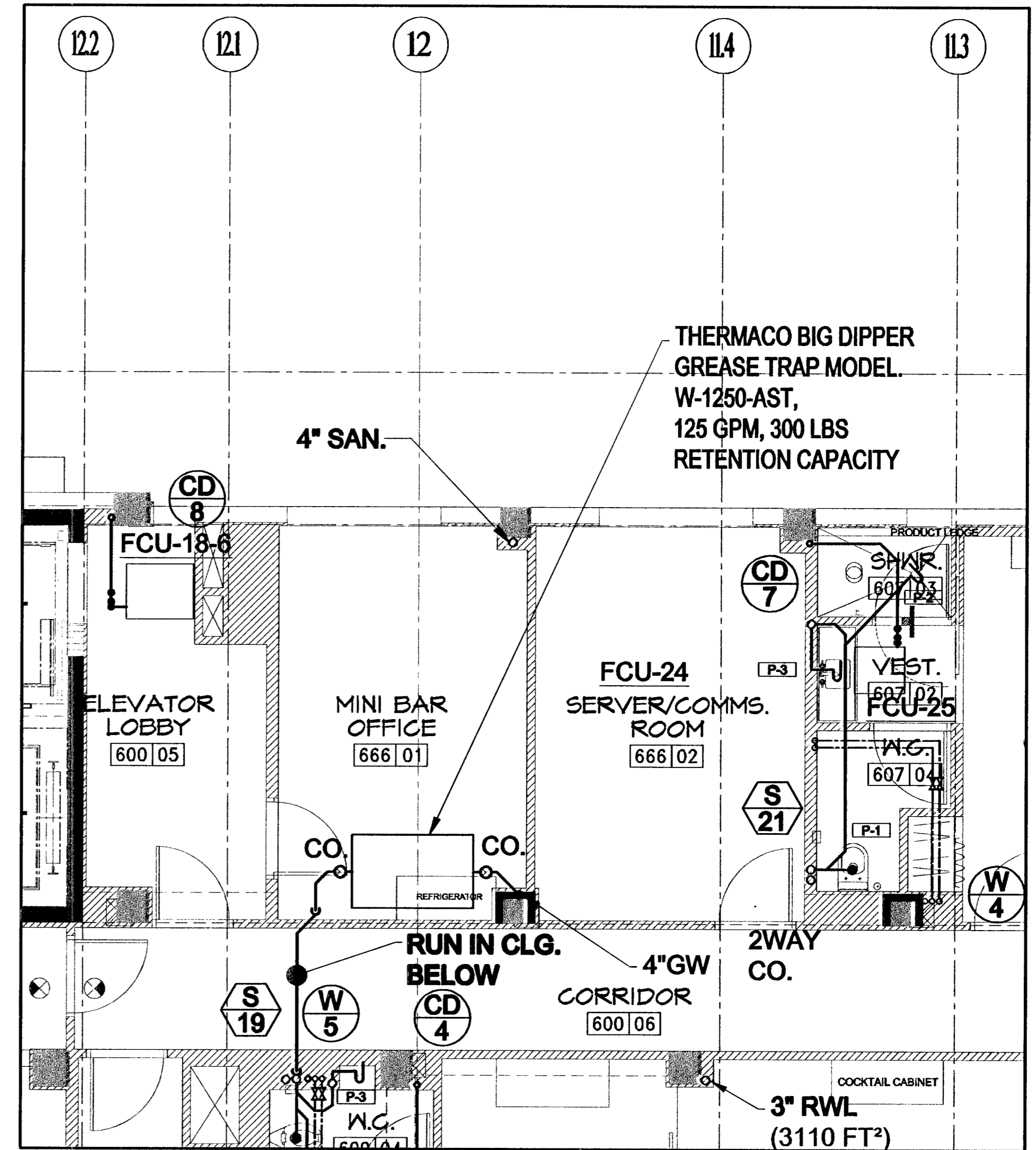
PLUMBING PARTIAL 7TH FLOOR PLAN
SCALE: 1/4"=1'-0"



GREASE WASTE RISER DIAGRAM
7TH FLOOR KITCHEN.
N.T.S.



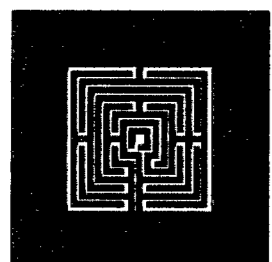
WATER RISER DIAGRAM
7TH FLOOR KITCHEN.
N.T.S.



PLUMBING PARTIAL 6th. FLOOR PLAN
SCALE: 1/4"=1'-0"

GREASE TRAP CALCULATIONS							
Project Name: SOHO 7th Flr Kitchen							
Descriptor: Restaurant							
EQUIP. ID	DESCRIPTION	VOLUME / UNIT (CUBIC INCHES)	QUANTITY	TOTAL VOLUME (CUBIC INCHES)	VOLUME (GALLONS)	75% FILL	FLOW RATE (GPM)
2	2C sink	20736	1	20736	89.77	67.32	33.66
7	Hand Sink	700	1	700	3.03	2.27	1.14
10	Dish Washer		1				38.00
16	3 Comp Sink	23712	1	23712	102.65	78.99	38.49
19	Hand Sink	405	1	405	1.75	1.31	0.68
32	Pasta Cooker	2772	1	2772	12.00	9.00	4.50
41	Dipper Well		1				2.5
44	2 sinks	810	2	1620	7.01	5.26	2.63
TOTAL FLOW RATE							121.58
PROVIDE BIG DIPPER GREASE TRAP MODEL W-1250-AST 125GPM, 300LBS							
1 Gallon = 231 Cubic Inches (CI) Flow rate is based on 2 minutes drain time.							
Calculations are based on procedures outlined in the Plumbing & Drainage Institute Appendix A.							

For Review
12/11/14
[Signature]
12/14/14



ALLAN T. SHULMAN ARCHITECT, P.A.
(AR 0012783)

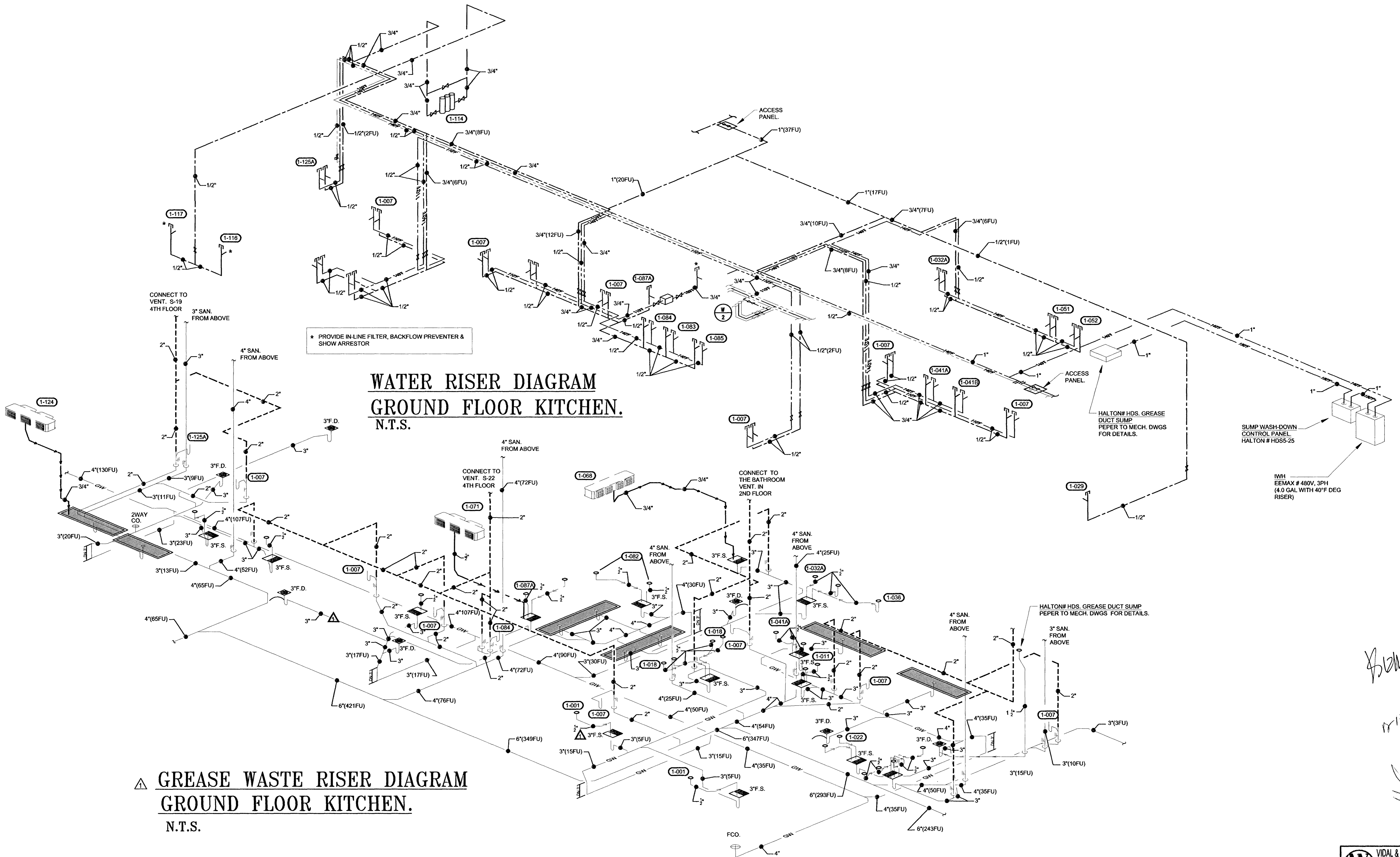
100 NE 38TH STREET, NO. 2 MIAMI, FL 33137
TEL: 305.438.0609 FAX: 305.438.0170

REVISIONS	REVISIONS
10.08.09	

SOHO BEACH HOUSE
4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

P-2.0
09.15.2009





**WATER RISER DIAGRAM
GROUND FLOOR KITCHEN.
N.T.S.**

**GREASE WASTE RISER DIAGRAM
GROUND FLOOR KITCHEN.
N.T.S.**

* PROVIDE IN-LINE FILTER, BACKFLOW PREVENTER & SHOW ARRESTOR

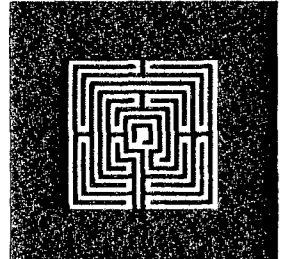
HALTON# HDS. GREASE DUCT SUMP PEPER TO MECH. DWGS FOR DETAILS.

SUMP WASH-DOWN CONTROL PANEL HALTON # HDSS-25

1/2\"

HALTON# HDS. GREASE DUCT SUMP PEPER TO MECH. DWGS FOR DETAILS.

VIDAL & ASSOCIATES INC.
CONSULTING ENGINEERS
2224 N.E. ONE AVENUE
MIAMI, FL 33137
HENRY VIDAL P.E., P.E.# 8024
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(AR 0012763)

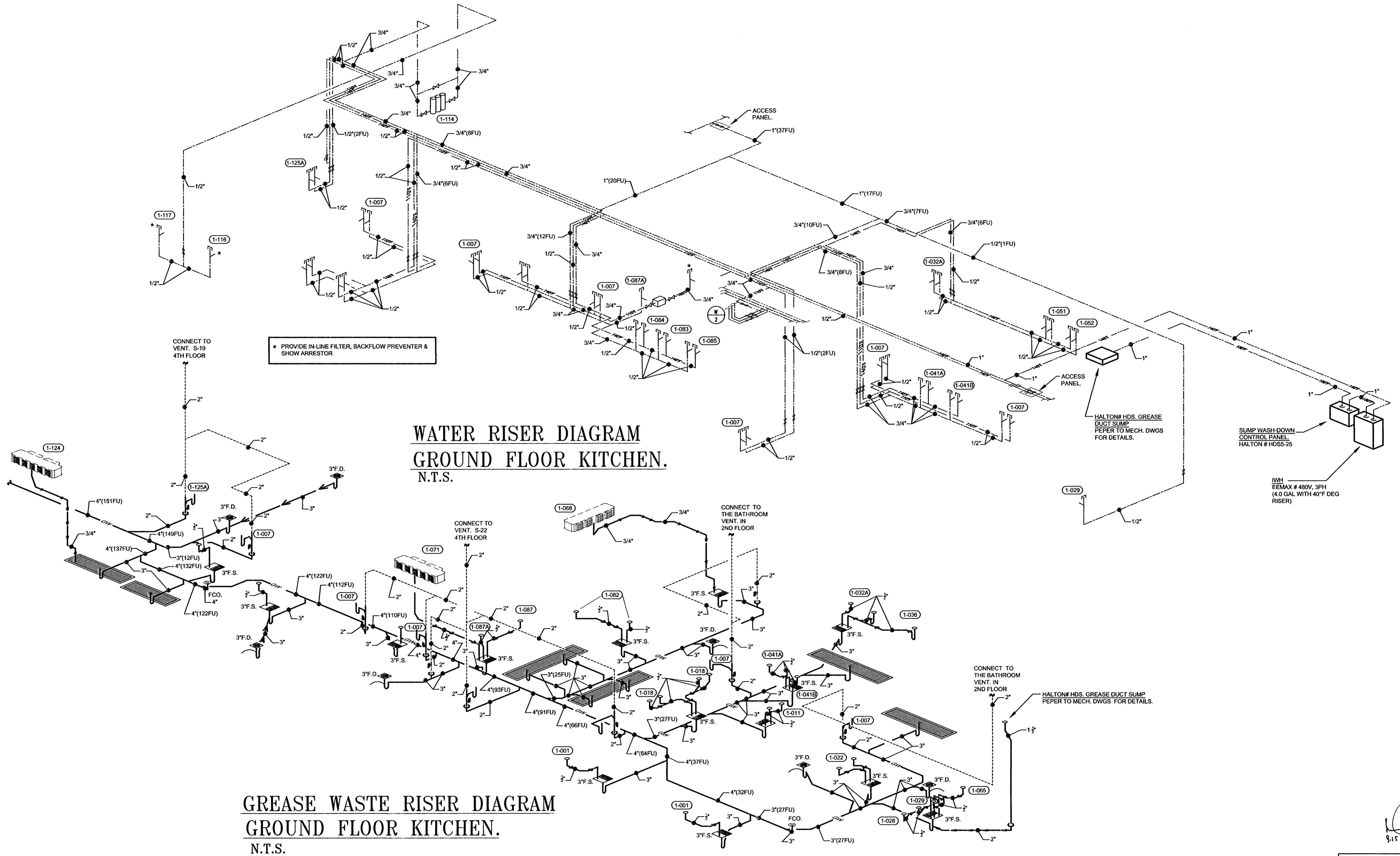
100 NE 38TH STREET, NO. 2 MIAMI, FL 33137
TEL: 305.438.0609 FAX: 305.438.0170

REVISIONS	REVISIONS
10.08.09 CMB COMMENTS	

SOHO BEACH HOUSE
4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

P-3.0
09.15.2009

Handwritten signatures and initials:
Bender
12/11/09
12/15/09



* PROVIDE IN-LINE FILTER, BACKFLOW PREVENTER & SHOW ARRESTOR

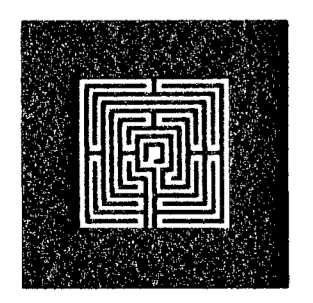
HALTON# HDS. GREASE DUCT SUMP
PEPER TO MECH. DWGS FOR DETAILS.

SUMP WASH-DOWN CONTROL PANEL
HALTON # HDS5-25

IWH EEMAX # 480V, 3PH
(4.0 GAL WITH 40°F DEG RISER)

HALTON# HDS. GREASE DUCT SUMP
PEPER TO MECH. DWGS FOR DETAILS.

9.15.09



ALLAN T. SHULMAN ARCHITECT, P.A.
(AR 0012763)
100 NE 38TH STREET, NO. 2 MIAMI, FL 33137
TEL: 305.438.0609 FAX: 305.438.0170

REVISIONS	REVISIONS

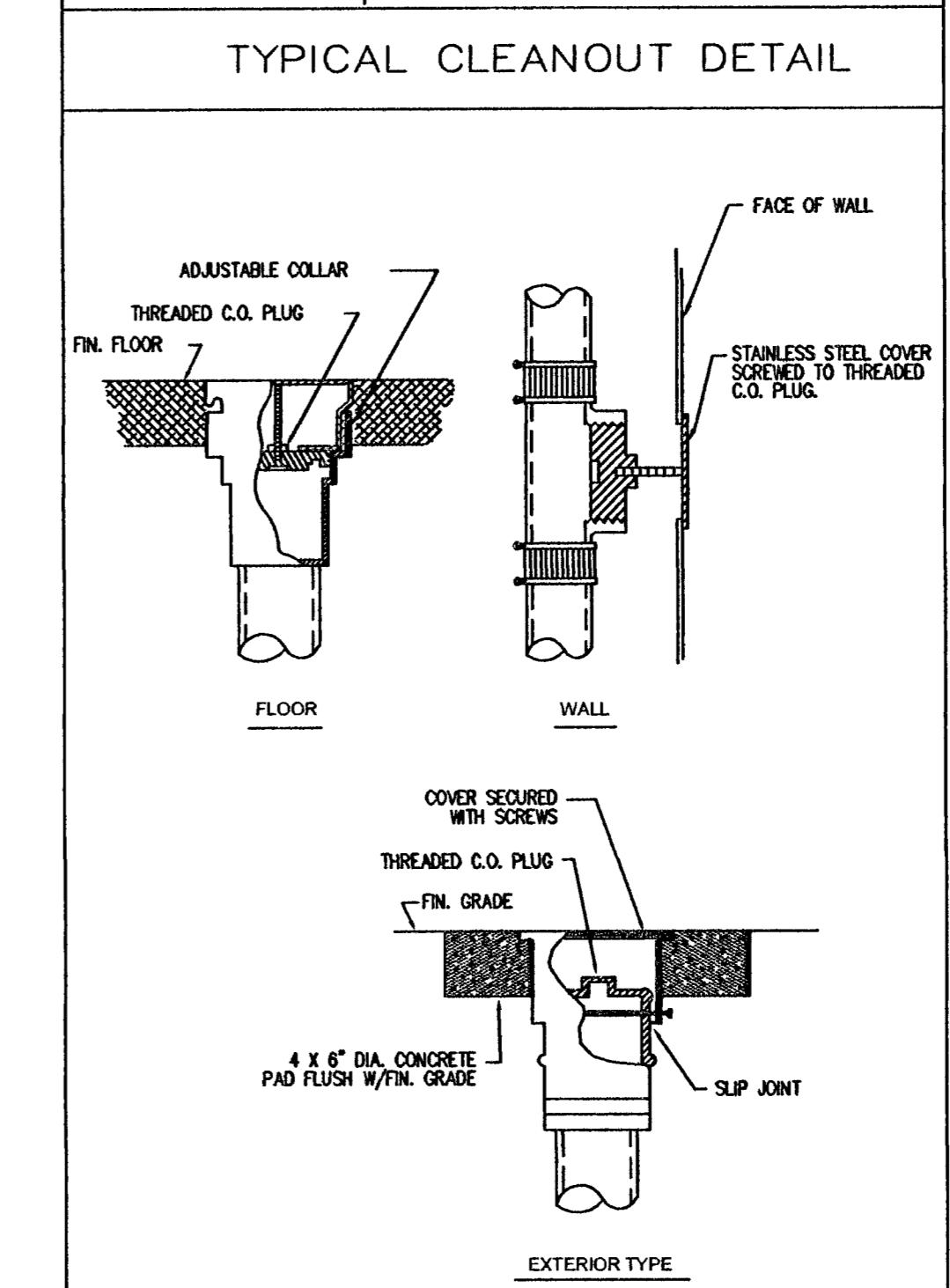
SOHO BEACH HOUSE
4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

VIDAL & ASSOCIATES INC.
CONSULTING ENGINEERS
2234 N.E. 2ND AVENUE
MIAMI, FL 33137
HENRY VIDAL P.E., PE# 56204
CERTIFICATION OF AUTHORIZATION #9658
PHONE: (305) 571-1860 FAX: (305) 571-1861
E-MAIL: VIDAL1@BAYCOM.COM

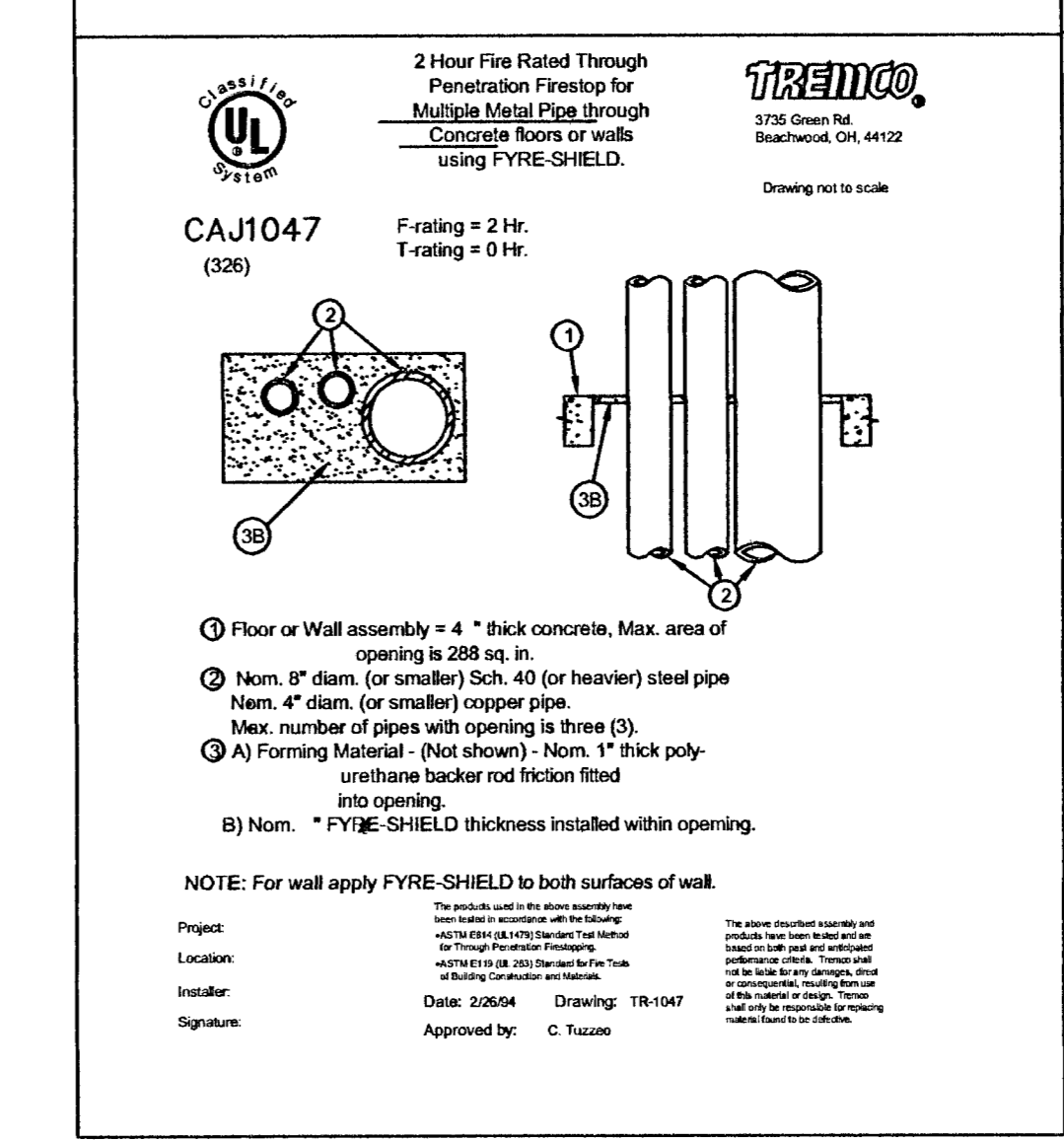
P-3.0
09.15.2009

PLUMBING SYMBOL LEGEND	
SYMBOL	DESCRIPTION
---	SANITARY LINE
---	VENT LINE
---	GREASE WASTE
---	SAFEWASTE LINE
---	CONDENSATE LINE
---	COLD WATER LINE
---	HOT WATER LINE
---	HOT WATER RETURN
---	GAS LINE
FOO	FLUSH CLEAN OUT
FD	FLOOR DRAIN
RD	ROOF DRAIN
RD-1	PVC ROOF DRAIN (BODY AND DOME)
CO	CLEAN OUT
VTR	VENT THRU ROOF
RWL	RAIN WATER LEADER
RWL-1	CLAY PIPE RAIN WATER LEADER

- GENERAL PLUMBING NOTES:**
- ALL WORK SHALL BE DONE IN accordance with the Florida Building Code 2007 edition and all applicable regulations.
 - DRAWINGS refer to all drawings for coordination of the plumbing work.
 - ARRANGE AND PAY for all permits, licenses, inspections and tests. Obtain the required certificates and present to owner.
 - GUARANTEE: The completed installation shall be fully guaranteed against defective materials and/or improper workmanship for a minimum of one year for materials and labor.
 - ALL HORIZONTAL SANITARY PIPING shall slope at 1/8" per FT for pipes 3" and larger, and at 1/4" per FT for 2" and smaller.
 - SHOP DRAWINGS: Contractor shall submit for approval, within 30 days of signing contract, a minimum of five copies of fully descriptive literature, including but not limited to: water heaters, and plumbing fixtures. No work shall proceed without the approval of these submittals.
 - PLUMBING FIXTURES: Fixtures shall be as specified and shall be complete with drains, traps, supplies and any other accessory required.
 - MATERIALS:
 - Sink, waste and vent, and grease: PVC pipe and fittings.
 - Domestic water: Copper pipe, Type L with sweat wrought copper fittings, Type L in concealed spaces is acceptable. Isolate piping from concrete with insulating material.
 - Condensate drain: DWV Copper pipe and fittings.
 - Gas line: Schd 40 Black steel pipe with threaded fittings.
 - Domestic water supply assembly: Chrome finish tubing with angle shut off valves.
 - INSULATION:
 - Condensate drain: 3/4 in. thick, foam plastic insulation, fire resistant type.
 - Hot Water and Hot Water Return: 1" thick foam plastic insulation, with self sealing flaps.
 - ALL AUTOMATIC GAS electric heaters shall meet the standards of the latest energy efficiency code.
 - PIPING TEST AND DISINFECTIONS:
 - Test: All sanitary and domestic water supply piping shall be tested for leaks before piping is concealed or connected to equipment and plumbing fixtures.
 - Disinfection: All domestic water piping shall be disinfected by introducing a solution of sodium hypochlorite of 50 parts per million of chloride and as per AWWA Standards.
 - VALVES: Domestic water valves shall be of bronze body, sweat ends.
 - All water connections to equipment shall be protected with vacuum breakers and filters as required by code.
 - CONTRACTOR SHALL COORDINATE exact location of sanitary, gas, gas, and water piping before starting any work. Notify Architect/Engineer of any deviations from design drawings.
 - CLEANOUTS:
 - Weld: Joism 58800-15
 - Finished Floor: Joism 56020-88-15
 - CONTRACTOR to fire protect and seal all openings and pipe penetrations thru fire rated walls and ceiling. Materials and methods to fire rating shall be approved by Dade County Product Control.
 - PROVIDE CEILING/WALL ACCESS DOORS where indicated on drawings and when required to access mechanical equipment. Doors shall be recessed type, fire rated if in fire rated wall or ceiling. As manufactured by Karp model RW and KATU.
 - PLUMBING CONTRACTOR SHALL see structural drawings prior to bidding to fully familiarize himself with project.
 - CONTRACTOR shall provide all necessary accessories and materials for a complete kitchen equipment installation. Consult with the kitchen equipment supplier for all requirements.
 - CONTRACTOR shall saw cut or core drill existing floors to install new plumbing work. Patch floor to match existing.
 - All installations shall meet the standards of the local authority and health department.
 - CONTRACTOR SHALL visit site prior to bidding to fully familiarize himself with scope of work. Notify Architect/Engineer of any discrepancies on drawings prior to commencement of work.
 - All materials and equipment shall have Dade County Product Control approval.



PIPE PENETRATION DETAIL



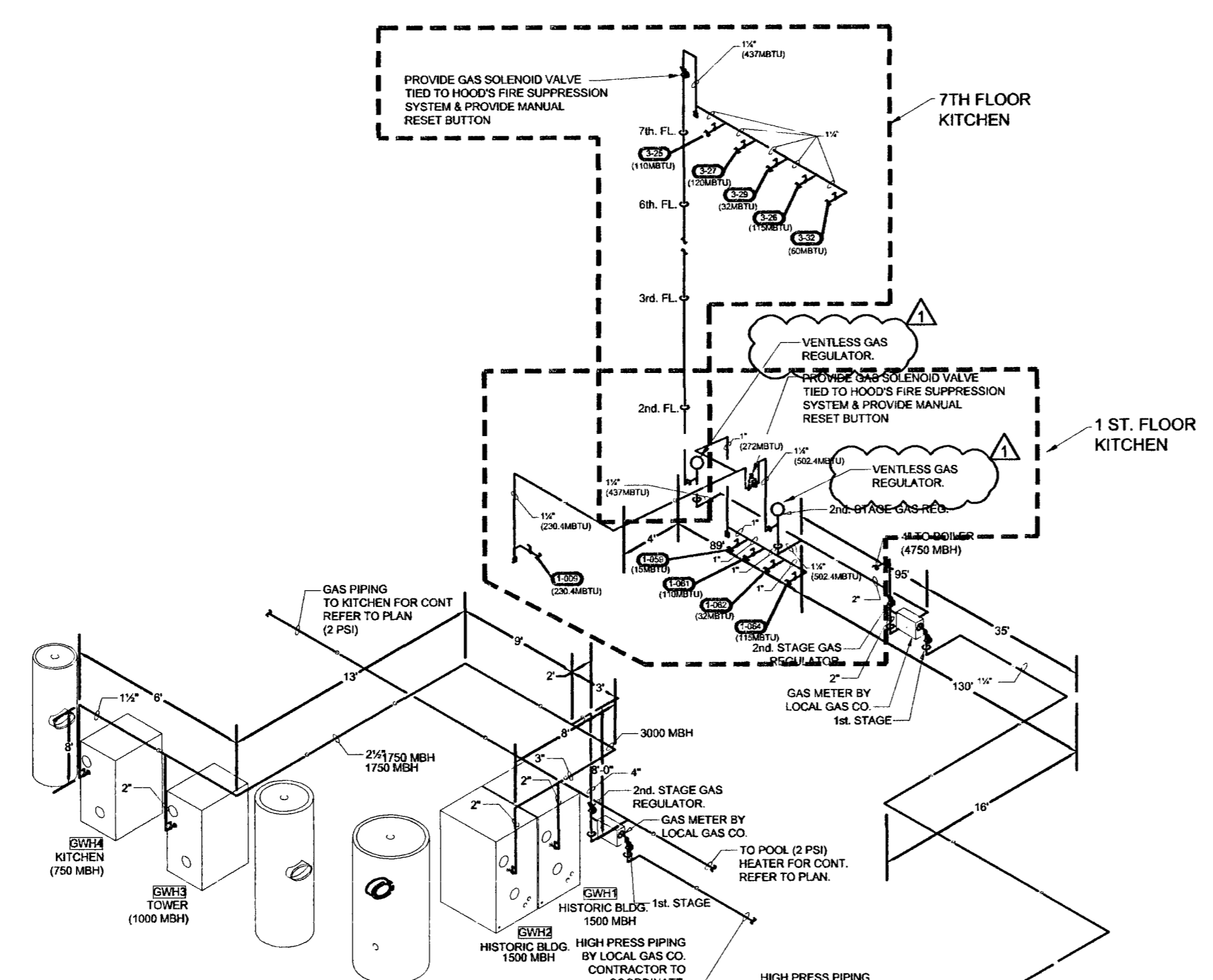
SITE INVESTIGATION

1. SITE INVESTIGATION:

EXAMINATION OF CONTRACT DOCUMENTS AND SITE OF WORK: THE BIDDER IS REQUIRED, BEFORE SUBMITTING HIS PROPOSAL, TO VISIT THE SITE OF THE PROPOSED WORK AND FAMILIARIZE HIMSELF/HERSELF WITH THE NATURE AND EXTENT OF THE WORK AND ANY LOCAL CONDITIONS THAT MAY IN ANY MANNER AFFECT THE WORK TO BE DONE AND EQUIPMENT, MATERIALS AND LABOR REQUIRED THEREFOR. SINCE THE WORK INVOLVES EXISTING BUILDINGS, SYSTEMS AND FACILITIES, SPECIAL CONSIDERATION SHALL BE GIVEN TO EXAMINATION OF WORKING CONDITIONS, EXISTING FACILITIES AND ALL BUILDING STRUCTURES TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. VARIATIONS IN ROUTING AND/OR CONSTRUCTION SHOULD BE ANTICIPATED BY THIS CONTRACTOR AND ARE EXPRESSLY INCLUDED AS PART OF THE WORK. WHICHEVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER. IGNORANCE ON THE PART OF THE CONTRACTOR WILL IN NO WAY RELIEVE HIM OF THE OBLIGATION AND RESPONSIBILITIES ASSUMED UNDER THIS CONTRACT.

2. THE NATURE OF THE REMODEL TYPE CONSTRUCTION POSSES SPECIAL PROBLEMS FOR THE DESIGN ENGINEERS AS WELL AS THE PLUMBING CONTRACTOR. EVERY EFFORT HAS BEEN MADE BY THE ENGINEERS TO SHOW AND IDENTIFY THE LOCATIONS AND TYPES OF EXISTING PLUMBING SYSTEMS. THE MAJOR PORTION OF THE PLUMBING SYSTEMS ARE AS SHOWN ON THE DRAWINGS HOWEVER DEVIATIONS MAY BECOME EVIDENT AS THE JOB PROGRESSES. PLUMBING CONTRACTOR SHALL PERFORM A FIELD VERIFICATION BEFORE BIDDING THIS PROJECT.

B. B. B. B. B.
10/1/24



GAS DESIGN CRITERIA EXTERIOR PIPING

GAS TYPE:	NATURAL GAS
TOTAL DEMAND:	568.4 MBH
TOTAL EQUIV. LENGTH:	340 FT
WORKING PRESSURE:	2.0 PSI
PRESSURE DROP:	1.0 PSI
SPECIFIC GRAVITY:	0.60

NOTE: PIPE SIZES BASED ON FBC TABLE 402.4 (2) METALLIC PIPE SCHEDULE 40

GAS DESIGN CRITERIA (GROUND FLR KITCHEN)		GAS DESIGN CRITERIA (7th FLR KITCHEN)	
GAS TYPE:	NATURAL GAS	GAS TYPE:	NATURAL GAS
TOTAL DEMAND:	592.4 MBH	TOTAL DEMAND:	437 MBH
TOTAL EQUIV. LENGTH:	60 FT	TOTAL EQUIV. LENGTH:	60 FT
WORKING PRESSURE:	0.5 PSI OR LESS	WORKING PRESSURE:	0.5 PSI OR LESS
PRESSURE DROP:	0.5" W.C.	PRESSURE DROP:	0.5" W.C.
SPECIFIC GRAVITY:	0.60	SPECIFIC GRAVITY:	0.60

NOTE: PIPE SIZES BASED ON FBC TABLE 402.4 (2) BLACK STEEL PIPE SCHEDULE 40

MECHANICAL ROOM GAS PIPING DIAGRAM N.T.S.

GENERAL GAS PIPING DIAGRAM N.T.S.

ALLAN T. SHULMAN ARCHITECT, P.A.
(AR 0012763)

100 NE 38TH STREET, NO. 2 MIAMI, FL 33137
TEL: 305.438.0609 FAX: 305.438.0170

REVISIONS	REVISIONS
10.08.09 CMB COMMENTS	

SOHO BEACH HOUSE
4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
CONSTRUCTION DOCUMENTS

VIDAL & ASSOCIATES INC.
CONSULTING ENGINEERS
2234 N.E. 2ND AVENUE
MIAMI, FL 33137
HENRY VIDAL, P.E., PE# 56204
CERTIFICATION OF AUTHORIZATION #2006

PHONE: (305) 571-1800 FAX: (305) 571-1861
E-MAIL: VIDAL1961@AOL.COM

P-4.0
09.15.2009

Thermaco BIG DIPPER

Big Dipper® AST Central Automatic Grease Removal Systems
W-1250-AST Specifications

FEATURES:

- Fully automatic self cleaning cycle. Removes collected grease, oils & solids from tank without any operator assistance. Comes complete with two 24-hour timers.
- Constructed of corrosion resistant materials suitable for installation in virtually any location. Attractive sanitary Stainless Steel exterior.
- Integrated Motor/Grease Outlet/Heater/Lids enables fast, do-it-yourself unit operation reversal.
- Easy lift grease collectors simplify grease collection container emptying.
- Compact footprint.

TECHNICAL DATA

Materials:	Exterior: 304 Stainless Steel, 8/316 Finish
	Interior: Rotationally Milled Polyethylene
Electrical:	115 VAC, 60 Hz, 1055 Watts (9.1 Amps)
Maximum Inlet Flow Rate:	125 GPM
Number of Skimming Wheels:	2
Skimming Rate:	40 Pounds Per Hour
Grease Retention Capacity:	300+ Pounds
Extractor Pump Operation:	Water Requirements: 50 PSI min., 12 GPM

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PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
---	SANITARY LINE
---	VENT LINE
---	GREASE WASTE
---	SAFEGWASTE LINE
---	CONDENSATE LINE
---	COLD WATER LINE
---	HOT WATER LINE
---	HOT WATER RETURN
---	GAS LINE
---	FLUSH CLEAN OUT
---	FLOOR DRAIN
---	ROOF DRAIN
---	PVC ROOF DRAIN (BODY AND DOME)
---	CLEAN OUT
---	VENT THRU ROOF
---	RAIN WATER LEADER
---	CLAY PIPE RAIN WATER LEADER

GENERAL PLUMBING NOTES:

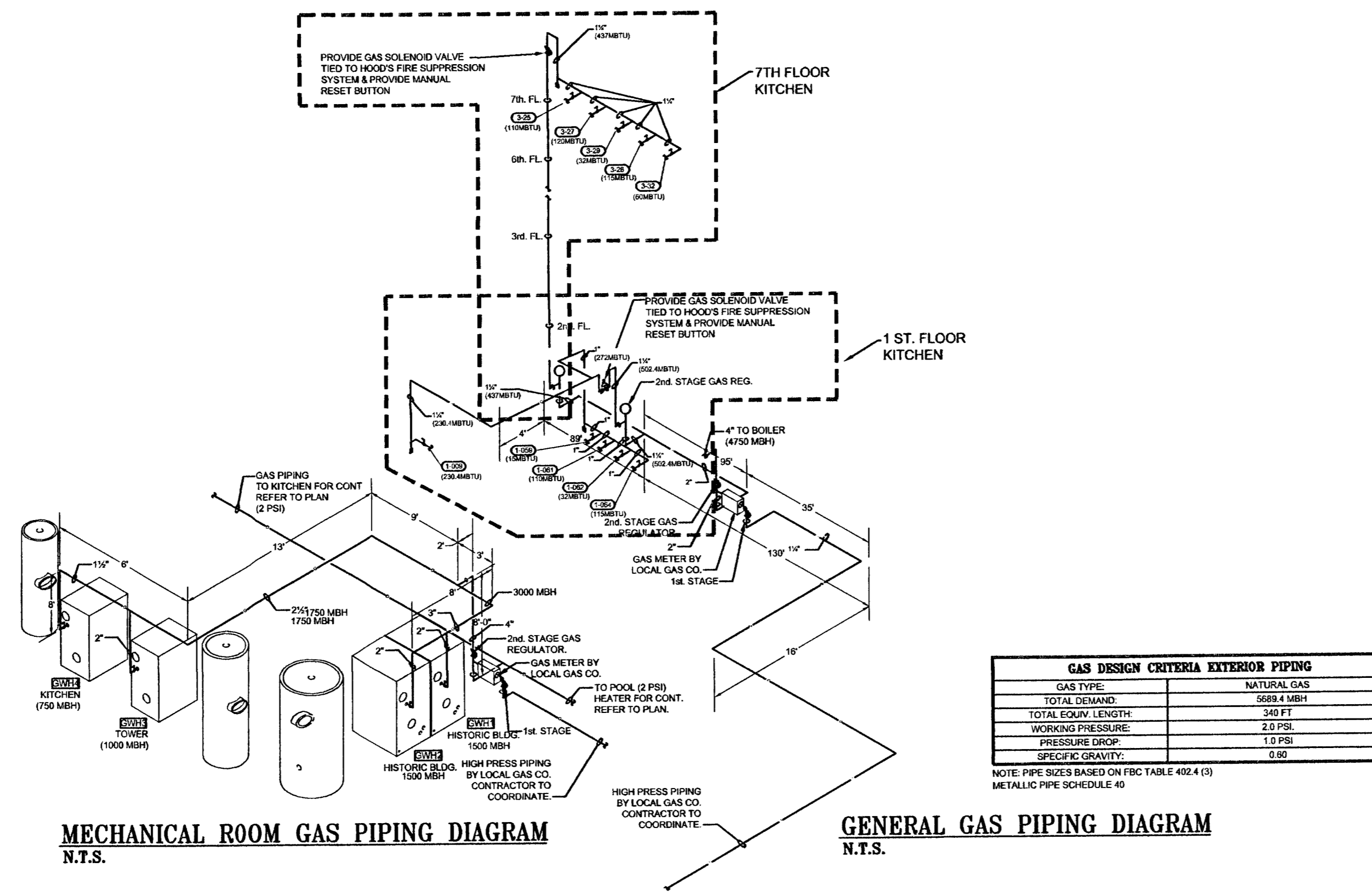
- ALL WORK SHALL BE DONE in accordance with the Florida Building Code 2004 edition and with all applicable regulations.
- DRAWINGS: Refer to all drawings for coordination of the plumbing work.
- PERMITS AND PAY: All permits, licenses, inspections and tests. Obtain the required certificates and present to owner.
- WARRANTY: The completed installation shall be fully guaranteed against defective materials and/or improper workmanship for a minimum of one year for material and labor.
- HORIZONTAL SANITARY PIPING shall slope at 1/8" per FT for pipes 3" and larger, and at 1/4" per FT for 2" and smaller.
- SHOP DRAWINGS: Contractor shall submit for approval, within 30 days of signing contract, a minimum of three copies of fully descriptive literature, including but not limited to: water heaters, and plumbing fixtures. No work shall proceed without the approval of these submittals.
- PLUMBING FIXTURES: Fixtures shall be as specified and shall be furnished and installed by this contractor. Fixtures shall be complete with drains, traps, supplies and any other accessory required.
- MATERIALS:
 - Soil, waste and vent, and grease: PVC pipe and fittings.
 - Domestic water: Copper pipe, Type L with sweat wrought copper fittings. Type "M" in concealed spaces is acceptable. Isolate piping from concrete with backfilling material.
 - Condensate drain: DWV Copper pipe and fittings.
 - Gas line: Sch. 40 Black steel pipe with threaded fittings.
 - Domestic water supply assembly: Chrome finish tubing with angle shut off valves.
- INSULATION:
 - Condensate drain: 3/4" thick, foam plastic insulation, fire resistant type.
 - Hot Water and Hot Water Return: 1" thick foam plastic insulation, with self sealing flaps.
- ALL AUTOMATIC GAS electric heaters shall meet the standards of the latest energy efficiency code.
- PIPING TEST AND DISINFECTIONS:
 - Test: All sanitary and domestic water supply piping shall be tested for leaks before piping is concealed or connected to equipment and plumbing fixtures.
 - Disinfection: All domestic water piping shall be disinfected by introducing a solution of calcium hypochlorite of 50 parts per million of chlorine and as per AWWA Standards.
- VALVES: Domestic water valves shall be of bronze body, sweat ends.
- All water connections to equipment shall be protected with vacuum breakers and filters as required by code.
- CONTRACTOR SHALL COORDINATE exact location of sanitary, grease, gas, and water piping before starting any work. Notify Architect/Engineer of any deviations from design drawings.
- CLEANOUTS:
 - Wall: Joann 58890-15
 - Finished Floor: Joann 58209-08-15
- CONTRACTOR to fire protect and seal all openings and pipe penetrations thru fire rated walls and ceiling. Materials and methods to fire rating shall be approved by Dade County Product Control.
- PROVIDE CEILING/WALL ACCESS DOORS where indicated on drawings and when required to access mechanical equipment. Doors shall be recessed type, fire rated if in fire rated wall or ceiling. As manufactured by Korp model RDW and KATR.
- PLUMBING CONTRACTOR SHALL see structural drawings prior to bidding to fully familiarize himself with project.
- CONTRACTOR shall provide all necessary accessories and materials for a complete kitchen equipment installation. Consult with the kitchen equipment supplier for all requirements.
- CONTRACTOR shall saw cut or core drill existing floors to install new plumbing work. Patch floor to match existing.
- All installations shall meet the standards of the local authority and health department.
- CONTRACTOR SHALL visit site prior to bidding to fully familiarize himself with scope of work. Notify Architect/Engineer of any discrepancies on drawings prior to commencement of work.
- All materials and equipment shall have Dade County Product Control approval.

TYPICAL CLEANOUT DETAIL

PIPE PENETRATION DETAIL

SITE INVESTIGATION

- SITE INVESTIGATION: EXAMINATION OF CONTRACT DOCUMENTS AND SITE OF WORK: THE BIDDER IS REQUIRED, BEFORE SUBMITTING HIS PROPOSAL, TO VISIT THE SITE OF THE PROPOSED WORK AND FAMILIARIZE HIMSELF WITH THE NATURE AND EXTENT OF THE WORK AND ANY LOCAL CONDITIONS THAT MAY IN ANY MANNER AFFECT THE WORK TO BE DONE AND EQUIPMENT, MATERIALS AND LABOR REQUIRED THEREFORE. SINCE THE WORK INVOLVES EXISTING BUILDINGS, SYSTEM AND FACILITIES, SPECIAL CONSIDERATION SHALL BE GIVEN TO EXAMINATION OF WORKING CONDITIONS, EXISTING FACILITIES AND ALL BUILDING STRUCTURES TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS, VARIATIONS IN ROUTING AND/OR CONSTRUCTION SHOULD BE ANTICIPATED BY THIS CONTRACTOR AND ARE EXPRESSLY INCLUDED AS PART OF THE WORK. WHENEVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER, KNOWLEDGE ON THE PART OF THE CONTRACTOR WILL IN NO WAY RELIEVE HIM OF THE OBLIGATION AND RESPONSIBILITIES ASSUMED UNDER THIS CONTRACT.
- THE NATURE OF THE REMODEL TYPE CONSTRUCTION POSSES SPECIAL PROBLEMS FOR THE DESIGN ENGINEERS AS WELL AS THE PLUMBING CONTRACTOR. EVERY EFFORT HAS BEEN MADE BY THE ENGINEERS TO SHOW AND IDENTIFY THE LOCATIONS AND TYPES OF EXISTING PLUMBING SYSTEMS. THE MAJOR PORTION OF THE PLUMBING SYSTEMS ARE AS SHOWN ON THE DRAWINGS HOWEVER DEVIATIONS MAY BECOME EVIDENT AS THE JOB PROGRESSES. PLUMBING CONTRACTOR SHALL PERFORM A FIELD VERIFICATION BEFORE BIDDING THIS PROJECT.



GAS DESIGN CRITERIA (GROUND FLR KITCHEN)		GAS DESIGN CRITERIA (7th FLR KITCHEN)	
GAS TYPE:	NATURAL GAS	GAS TYPE:	NATURAL GAS
TOTAL DEMAND:	502.4 MBH	TOTAL DEMAND:	437 MBH
TOTAL EQUIV. LENGTH:	65 FT	TOTAL EQUIV. LENGTH:	95 FT
WORKING PRESSURE:	0.5 PSI OR LESS	WORKING PRESSURE:	0.5 PSI OR LESS
PRESSURE DROP:	0.5" W.C.	PRESSURE DROP:	0.5" W.C.
SPECIFIC GRAVITY:	0.90	SPECIFIC GRAVITY:	0.90

NOTE: PIPE SIZES BASED ON FBC TABLE 402.4 (2) BLACK STEEL PIPE SCHEDULE 40

ALLAN T. SHULMAN ARCHITECT, P.A.
 (AR 0012763)
 100 NE 38TH STREET, NO. 2 MIAMI, FL 33137
 TEL: 305.438.0609 FAX: 305.438.0170

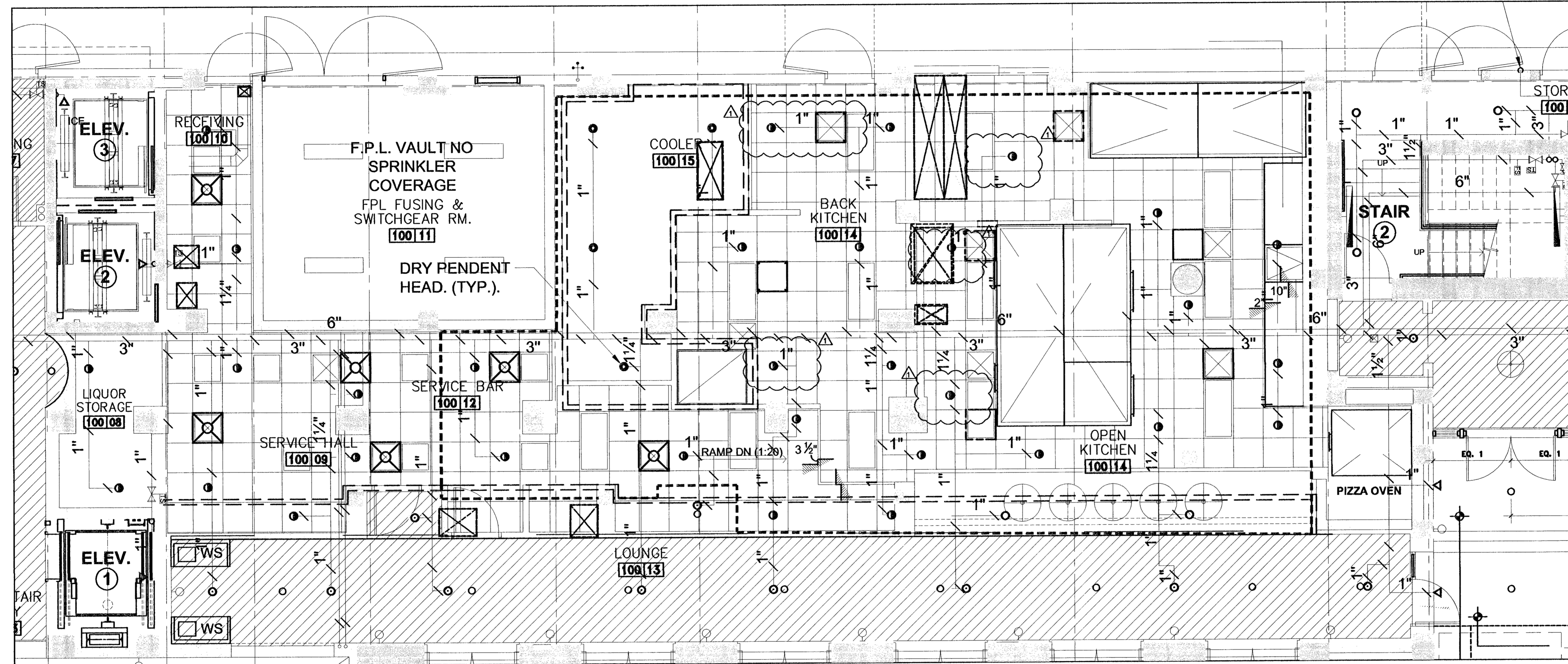
REVISIONS	REVISIONS

9.11.09

SOHO BEACH HOUSE
 4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
 JOB NO. 05035
1ST & 7TH FLOOR KITCHENS
 CONSTRUCTION DOCUMENTS

VIDAL & ASSOCIATES INC.
 CONSULTING ENGINEERS
 2224 N.E. 2ND AVENUE
 MIAMI, FL 33137
 HENRY VIDAL P.E., PE# 58204
 CERTIFICATION OF AUTHORIZATION #9058
 PHONE: (305) 571-1880 FAX: (305) 571-1861
 E-MAIL: VIDAL1961@AOL.COM

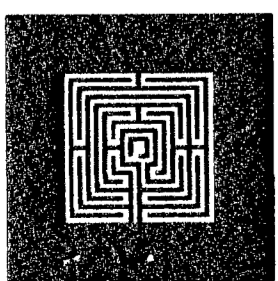
P-4.0
 09.15.2009



REFER TO BASE BLDG PERMIT
DRAWINGS FOR CONTINUATION
OF ALL UTILITIES.

Handwritten signature and date:
10/24/09

VIDAL & ASSOCIATES INC.
CONSULTING ENGINEERS
2234 N.E. 2ND AVENUE
MIAMI, FL 33137
HENRY VIDAL P.E., PE# 58204
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REVISIONS		REVISIONS	
10.08.09	CHB COMMENTS		

SOHO BEACH HOUSE
4385 COLLINS AVENUE, MIAMI BEACH, FL, 33140
JOB NO. 05035
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F-1.0
09.15.2009