

APPENDIX B

BUILDING CODE SUMMARY

Table with columns for Building Code Summary, including sections like Structural, Mechanical, and Electrical.

Table with columns for Year Addition of Code, including sections like Fire, Life Safety, and Energy.

Table with columns for Allowable Area, including sections like Residential, Commercial, and Industrial.

Table with columns for Special Design Category, including sections like Seismic, Wind, and Flood.

Table with columns for Fire Protection Requirements, including sections like Fire Alarm, Fire Extinguishers, and Fire Escape.

Table with columns for Accessible Pathway, including sections like Accessible Entrance, Accessible Route, and Accessible Parking.

Table with columns for Special Approvals, including sections like Special Use, Special Occupancy, and Special Construction.

Table with columns for Schedule of Special Inspection, including sections like Foundation, Framing, and Mechanical.

SCOPE OF WORK

1. PLUMBING, MECHANICAL & ELECTRICAL FOR BUILDING A & B.

Table with columns for Life Safety System Requirements, including sections like Fire Alarm, Fire Extinguishers, and Fire Escape.

EXIT REQUIREMENTS

Table with columns for Exit Requirements, including sections like Exit Width, Exit Signage, and Exit Access.

1. Exit Width: 36 inches minimum.

2. Exit Signage: Illuminated signs required.

Table with columns for Use Group, including sections like Assembly, Business, and Office.

1. Use Group: Assembly.

2. Use Group: Business.

STRUCTURAL DESIGN

1. Foundation: 12 inches minimum.

2. Foundation: 12 inches minimum.

3. Foundation: 12 inches minimum.

4. Foundation: 12 inches minimum.

5. Foundation: 12 inches minimum.

6. Foundation: 12 inches minimum.

7. Foundation: 12 inches minimum.

8. Foundation: 12 inches minimum.

9. Foundation: 12 inches minimum.

10. Foundation: 12 inches minimum.

11. Foundation: 12 inches minimum.

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15. Foundation: 12 inches minimum.

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18. Foundation: 12 inches minimum.

19. Foundation: 12 inches minimum.

20. Foundation: 12 inches minimum.

21. Foundation: 12 inches minimum.

TERRACE CAFE

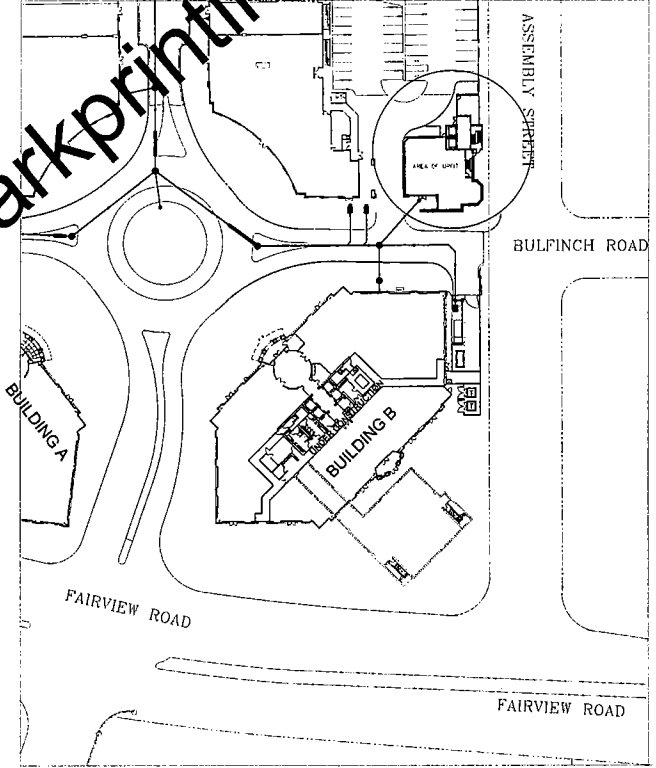
4625-105 PEIDMONT ROW DR.

CHARLOTTE, NORTH CAROLINA 28210

Crockford and Assoc. Inc. & Sean Reymann

PLUMBING, MECHANICAL & ELECTRICAL

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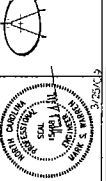


SITE PLAN

SCALE: NO SCALE

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REVISED 4/3/08

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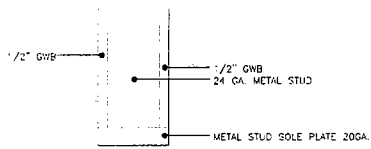
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**FINISH SCHEDULE**

AREA	LOCATION	DESCRIPTION	DETAIL	CLASS	QTY
KITCHEN	FLOOR	WALL UNDER WOOD CABINETS 1/2" TYP TO BOTTOM OF WOOD AND EXTENDING TO ABOVE EDGE OF 2" WOOD AND 1/2" ABOVE 2" WOOD	NEW	CLASS 1	WALL
	CEILING	EPoxy PAINT W/UNGRADED BASE	NEW	CLASS 4	ROCK
	CEILING	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
	WALLS	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED TO 10' HORIZONTAL STRIPS USE ALL RECOMMENDED TRANSITION STRIPS	NEW	CLASS 4	ROCK
OFFICE AND BATHROOMS	FLOOR	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED TO 10' HORIZONTAL STRIPS USE ALL RECOMMENDED TRANSITION STRIPS	NEW	CLASS 4	ROCK
	CEILING	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
	FLOOR	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
	FLOOR	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
OFFICE AND BATHROOMS	FLOOR	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
	CEILING	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
	FLOOR	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
	FLOOR	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
OFFICE AND BATHROOMS	FLOOR	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
	CEILING	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
	FLOOR	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK
	FLOOR	150 INTERLOCK 2 1/2" X 4" 3230 WHITE VINYL COVERED	NEW	CLASS 4	ROCK

1. INTERLOCK FINISHES MUST COMPLY WITH CLASS 4 R10 AND FLOORING OF BATHROOMS SHALL ALSO COMPLY WITH 1210 AND 1210.2 MEBC  
 2. WALL AND FLOOR FINISHES SHALL COMPLY WITH 1210.1 MEBC

DOOR SCHEDULE	SIZE	DETAIL
D-1	3'-0" X 6'-6"	INTERIOR GRADE SOLID WOOD W/ ADA LEVER HANDLES AND SELF CLOSING MECH
D-2		NOT USED
D-3	6'-0" X 4'-8"	DOUBLE 36" SOLID WOOD CLOSET DOOR
D-4	6'-0" X 8'-8"	SWINGING DOUBLE DOOR ELIASON OR EQUIV.



BAR CONSTRUCTION - FRAME WITH 1/4" X 1/2" IN DIA 3 LUBRICK SOLID PALL ANCHORS (10" STAINL 3 WOOD) (1/4") (4-AN-1 GRADE HITCH) TO 1/2" WOOD STUD OR 24 GA. STAINLESS STEEL

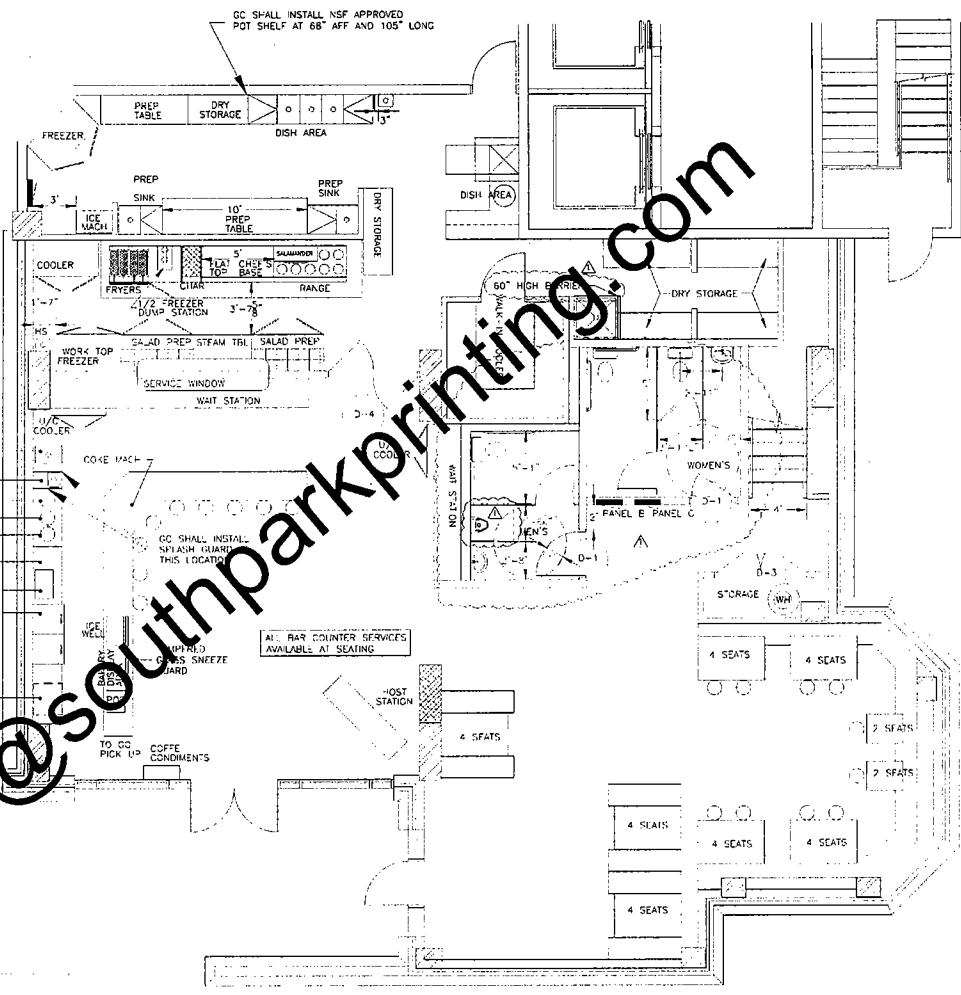


- NOTE TO KEYS**
- DA-1 = SUSPENDED ACQUISITION TRIF PANELS AND GRAB
  - 10A = 16" X 24" POLISH PLATE MIRROR WITH GRAB
  - 10C = PAPER TOWEL DISPENSER
  - 10D = 42" GRAB BAR
  - 10E = 36" GRAB BAR
  - 10F = TOILET TISSUE HOLDER: 19" MIN. A.F.C. & 36" MAX. FROM REAR WALL

NOTE: ALL SCOPE OF WORK SHALL COMPLY WITH THE NORTH CAROLINA BUILDING CODE 2008, EDITION AND ANY REVISIONS THEREAFTER.  
 BATHROOMS SHALL COMPLY WITH MEBC-405.5.1

**ADA REQUIREMENTS NOTES:**

- TOILET PAPER DISPENSERS MUST PROVIDE CONTINUOUS FLOW AND BE MOUNTED 11-8" CENTER TO FINISHED FLOOR
- HOT WATER AND BRAIN-POISED UNDER LAVATORIES SHALL BE INSTALLED ON FURNISHING REDUCED TO PROVIDE SMOOTH FINISHES
- THESE SHALL BE NO SHARP ABRASIVE SURFACES (SMOOTH FINISHES)
- IF SELF-CLOSING WASTEBASKETS ARE USED ON WALLS, HANDLES SHALL REMAIN OPEN FOR A MIN. OF 10 SECONDS
- ALL STRESSES ON GRAB BARS SHALL BE BASED ON 250#
- PAPER TISSUE DISPENSER TO BE LOCATED AT A HEIGHT 44-48" MAX.
- PRELIVE LOOP TYPE ACCESSIBLE DOOR HARDWARE ON TOILET STALLS PROVIDE SIGNAGE FOR RESTROOM DOORS ADJACENT TO LATCH SIDE
- IF DOOR IS NOT 47.75" USE NON-SQUARE PUSH/GRADE 2 BRALLE AND RAISED LETTERS 11/32"
- ALL DOORS MIN. WIDTH 2'-8" CLEAR SW OPEN



**FLOOR PLAN**  
 1/4"=1'

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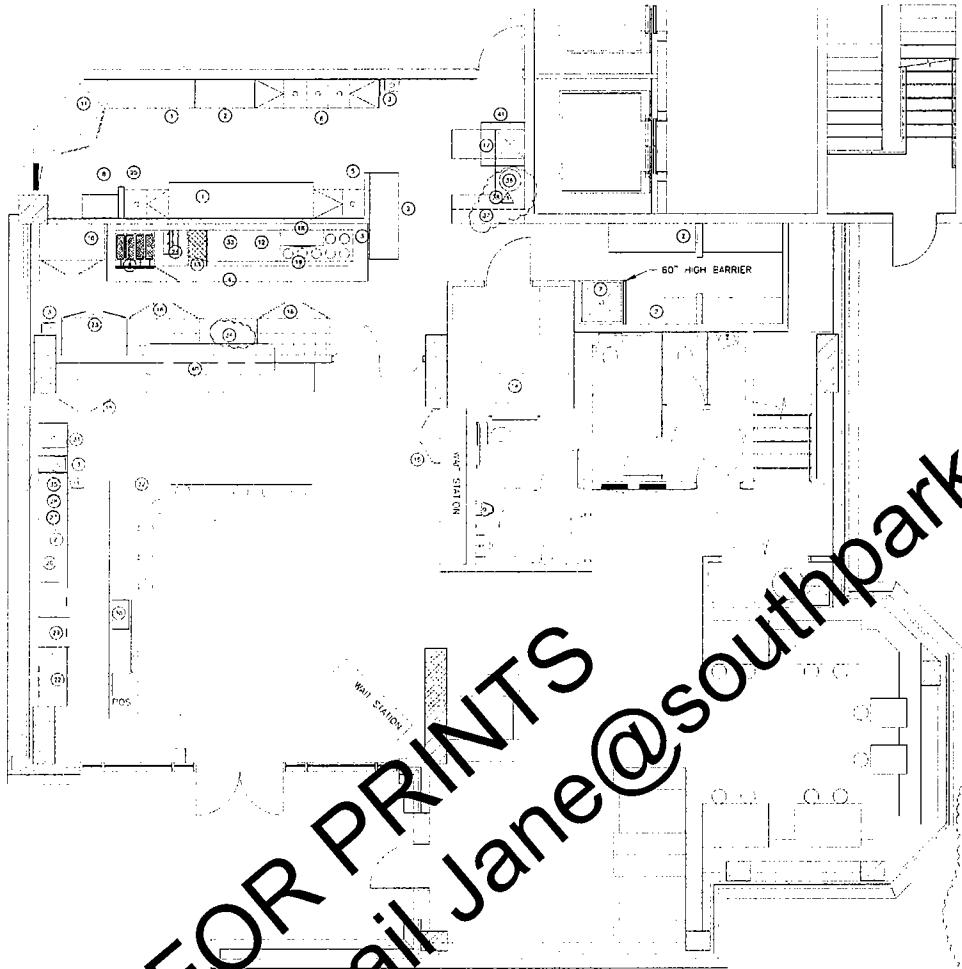


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REVISED 1/1/19

SHEET  
**B-1**  
 OF





EQUIPMENT PLAN  
1/4"=1'

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FOOD SERVICE EQUIPMENT SCHEDULE											
NO.	EQUIPMENT	MANUFACTURER	DESCRIPTION	CONNECTION	VOLTS	PHASE	AMPS	HP	SAFETY	REMARKS	
1	PREP TABLE	SELECT STAINLESS	12" X 27 1/2" X 30" WITH UNDER SHELF							NSF	
2	STAINLESS SINKING	30" WIDE								NSF	
3	STAINLESS SINKING	30" WIDE								NSF	
4	STAINLESS SINKING	30" WIDE								NSF	
5	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
6	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
7	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
8	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
9	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
10	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
11	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
12	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
13	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
14	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
15	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
16	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
17	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
18	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
19	PREP SINK	SELECT SS	30" X 18" X 18" ONE WITH UNDERMOUNT							NSF	
20	ESPRESSO	FRANLIO	CLASSIC 8		120	1	10	30		NSF	
21	ICE BACK COOLER	ASECO	JWB-18		120	1	15	5.1		NSF	
22	WINE FRIGIDAR	WY AIR	WY-18-R		120	1	15	1.5		NSF	
23	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
24	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
25	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
26	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
27	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
28	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
29	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
30	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
31	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
32	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
33	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
34	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
35	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
36	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
37	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
38	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
39	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	
40	WINE FRIGIDAR	ASECO	JWB-18		120	1	15	1.5		NSF	

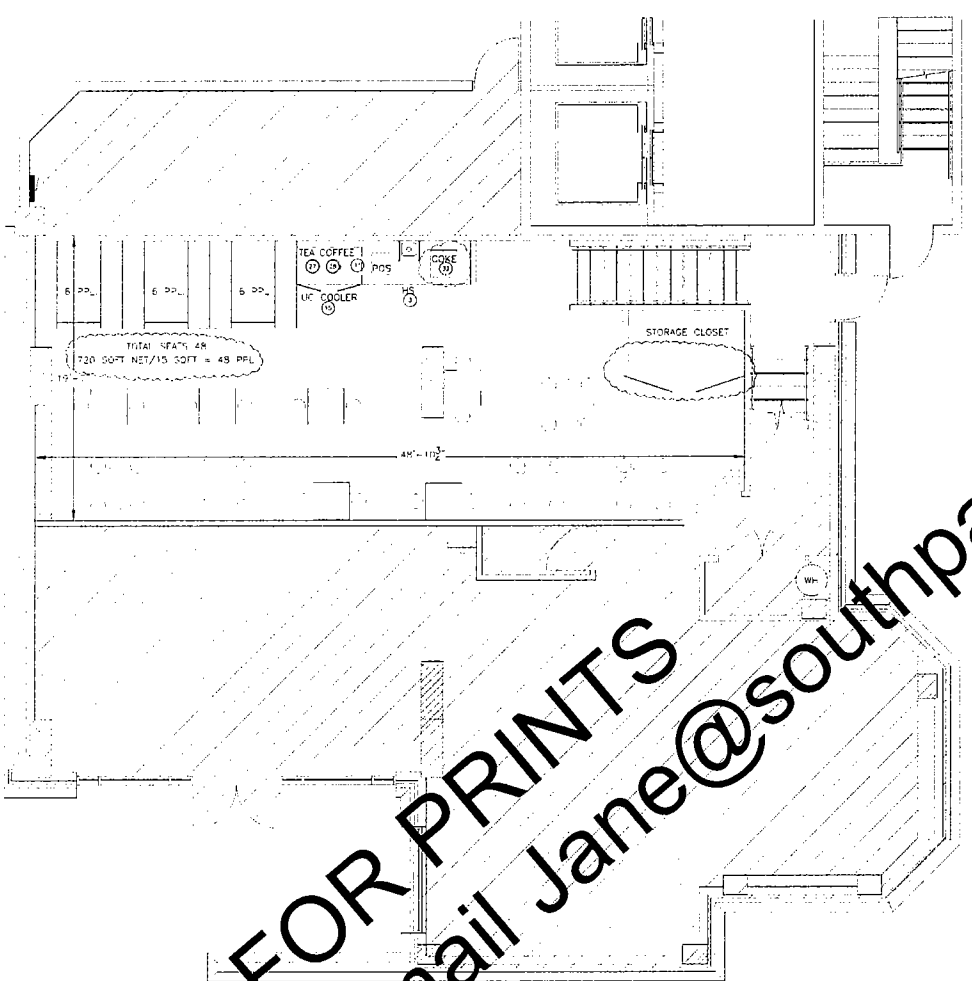
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 4/25/14

SHEET  
 B-3



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FOOD SERVICE EQUIPMENT SCHEDULE

NO.	DESCRIPTION	MANUFACTURER	ELECTRICAL	VOLTS	PHASE	AMPS	HP	BTU	COMMENTS	REMARKS
1	PREP TABLE	SELECT STAINLESS	208V	1	1	10			48" X 120" WITH UNDER SHELF	NSP
2	STAINLESS CLOSET	VENCO							VARIOUS SIZES	NSP
3	COOLER	WALK-IN							120" WIDE 84" HIGH 48" DEEP	NSP
4	COOLER	CAPICE 48"							48" X 120" X 18"	NSP
5	SELECT SS	SELECT SS							208V 15" X 120" X 18" ONE WITH 24" DEEP BOARD	NSP
6	SELECT SS	SELECT SS							STAINLESS STEEL 48" X 120" X 18" BOWLS	NSP
7	WATER DISPENSER	VENCO							20" X 12" X 18" (20" BOWLS)	NSP
8	WATER DISPENSER	VENCO							1.5 STAINLESS 48" X 18"	NSP
9	WATER DISPENSER	VENCO							MODEL 12422	NSP
10	REFRIGERATOR	ASCO							REFRIGERATOR 3 DOOR	NSP
11	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
12	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
13	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
14	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
15	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
16	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
17	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
18	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
19	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
20	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
21	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
22	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
23	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
24	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
25	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
26	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
27	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
28	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
29	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
30	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
31	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
32	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
33	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
34	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
35	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
36	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
37	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
38	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
39	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
40	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
41	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
42	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
43	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
44	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
45	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
46	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
47	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
48	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
49	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP
50	REFRIGERATOR	ASCO							REFRIGERATOR 2 DOOR	NSP

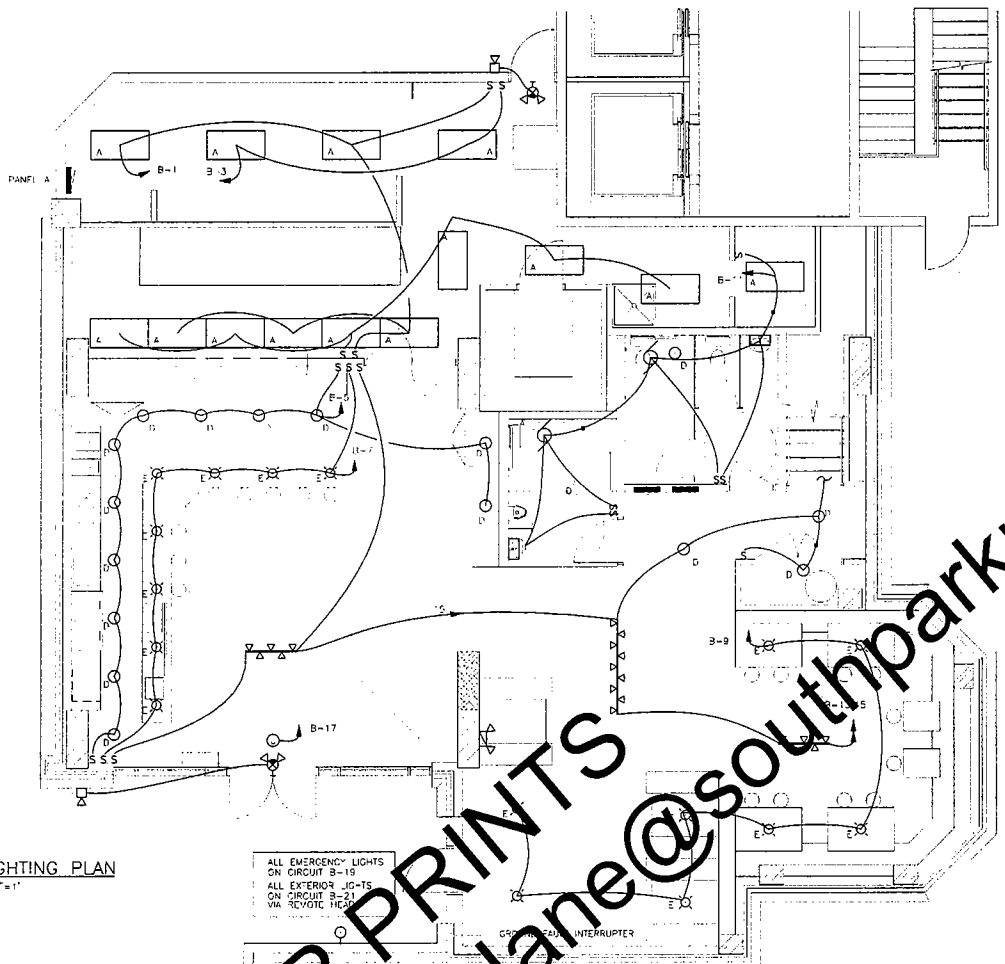
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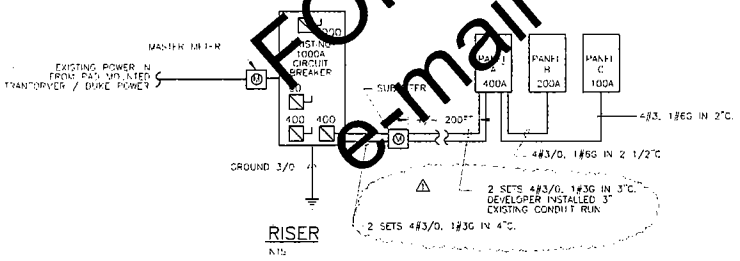
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4/1/19

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B 4  
OF



**LIGHTING PLAN**  
1/4" = 1'

ALL EMERGENCY LIGHTS ON CIRCUIT B-19  
ALL EXTERIOR LIGHTS ON CIRCUIT B-21  
W/ REVOKE HEAD



- ABBREVIATIONS**
- A ABOVE FINISHED FLOOR
  - A.F.F. ABOVE FINISHED FLOOR
  - C CONDUIT
  - EC EMPTY CONDUIT
  - G GROUND
  - GFI GROUND FAULT INTERRUPTER
  - N NEUTRAL
  - PNL PANEL
  - RECP RECEPTACLE
  - UH UNIT HEATER
  - V VOLTS
  - WATER WATER
  - WH WATER HEATER
  - WP WEATHERPROOF
  - IG ISOLATED GROUND

**ELECTRICAL SYMBOL SCHEDULE**

- CONDUIT RUN CONCEALED, UNLESS NOTED OTHERWISE
- - - CONDUIT RUN IN OR BELOW FLOOR OR GRADE
- +— CIRCUIT CONTINUES BUT NOT SWITCH LEG.
- HOMERUN TO PANEL, ARROWS INDICATE QUANTITY OF CIRCUITS
- ○-4 CEILING OR WALL MOUNTED, RESPECTIVELY, INCANDESCENT OR ILLD. FIXTURE, LETTER INDICATES TYPE
- ENCLOSED OR STRIP FLUORESCENT FIXTURE, RESPECTIVELY, LETTER INDICATES TYPE
- S S<sub>3</sub> SINGLE POLE OR THREE-WAY SWITCH, RESPECTIVELY, MOUNT 48" A.F.F.
- S<sub>0</sub> INCANDESCENT BULB DIMMER IN FLUSH OUTLET BOX, MOUNT 48" A.F.F.
- DUPLICATION SYMBOL, MOUNT 18" A.F.F.
- DUPLICATION SYMBOL, MOUNT 18" A.F.F., 208V
- DUPLICATION SYMBOL, MOUNT ABOVE COUNTER HEIGHT OR 48" A.F.F.
- ⊕ GROUND FAULT INTERRUPTER RECEPTACLE
- WP WEATHERPROOF RECEPTACLE
- ⊕ JUNCTION BOX PER N.E.C.
- ⊕ FUSED SAFETY SWITCH WITH REJECTION CLIPS NUMBER INDICATES FUSE RATING FUSING SHALL BE 100% IR-1
- FRACTIONAL HORSEPOWER MOTOR CONNECTION
- PANELBOARD
- ⊕ P.U.L. STATION

**LIGHTING FIXTURE SCHEDULE**

TYPE	MANUFACTURER/	NUMBER OF LAMPS	NO. OF BALLASTS	WATTS/VOLTS	MOUNTING	NOTES
A	LITHONIA 2X4 FLUORESCENT EXISTING	4	2	28 120	LAY-IN CEILING	1,2,3,4
B	WALL SCONCE	1	-	00 120	LAY-IN CEILING	2
C	RECESSED INCANDESCENT	1	-	00 120	RECESSED CEILING	2
D	RECESSED INCANDESCENT	1	-	00 120	RECESSED CEILING	2
E	PENDANT	1	1	00 120	CEILING MOUNTED	2
F	TRACK LIGHT	3	-	60 120	CEILING MOUNTED	2
⊕	EXTERIOR LIGHT	1	-	100 120	SURFACE MOUNTED	-
⊕	EXTERIOR GRADE EGRESS LIGHT	1	1	00 120	SURFACE MOUNTED	-
⊕	LITHONIA FREE CORE BATTERY BACK UP CONTROLLED BY PHOTO-EYE	1	-	170	CEILING OR WALL, AS INDICATED	-
⊕	LITHONIA HELVA-N-H EMERGENCY LIGHTING UNIT WITH NICKEL CADMIUM BATTERIES AND HESSOR LAMPS	2	-	16 170	WALL BRACKET	-

- LIGHTING FIXTURE SCHEDULE NOTES**
1. PROVIDE FIXTURE WITH ELECTRONIC BALLAST(S)
  2. CONFIRM EXACT LOCATION OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
  3. SWITCH INSIDE LAMP(S) SEPARATELY FROM OUTSIDE LAMPS.
  4. EXISTING TO BE RELOCATED.

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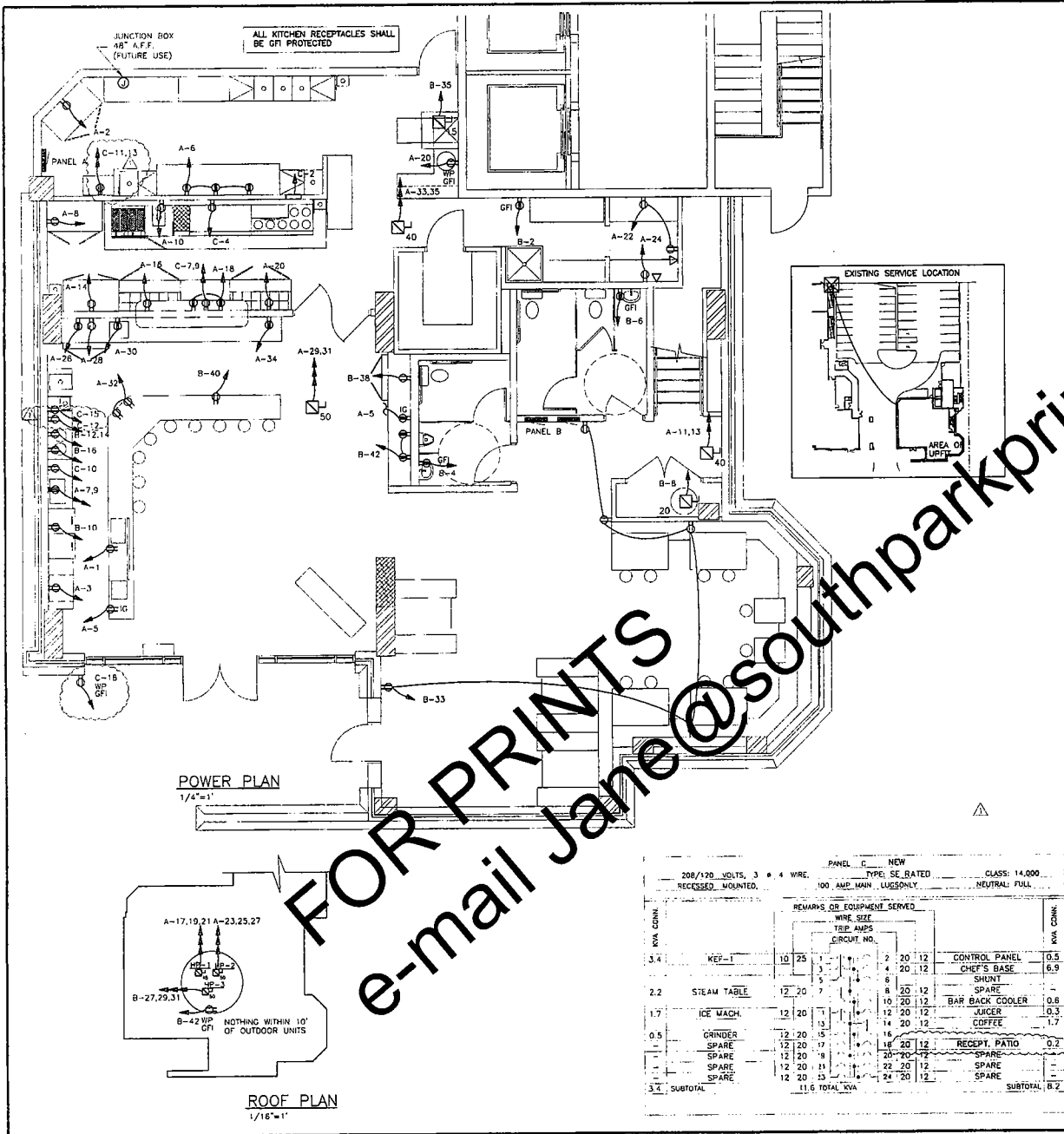
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SHEET  
**E - 1**  
OF



PANEL MDP EXISTING  
 208/240 VOLTS, 3 # 4 WIRE, TYPE SE RATED CLASS: 14,000AC  
 RECESSED MOUNTED, 1000 AMP MAIN, NEUTRAL FULL

KVA CONN.	REMARKS OR EQUIPMENT SERVED	WIRE SIZE		KVA CONN.
		TRIP AMPS	CIRCUIT NO.	
1	SPACE	2	60	12.5
1	SPACE	3	60	12.5
1	SPACE	5	60	12.5
1	SPACE	7	60	12.5
1	SPACE	9	60	12.5
1	SPACE	11	60	12.5
1	SPACE	13	60	12.5
1	SPACE	15	60	12.5
1	SPACE	17	60	12.5
1	SPACE	19	60	12.5
1	SPACE	21	60	12.5
1	SPACE	23	60	12.5
1	SPACE	24	60	12.5
1	SPACE	26	60	12.5
1	SPACE	27	60	12.5
1	SPACE	28	60	12.5
1	SPACE	30	60	12.5
144	DOLGETTO	32	400	2-3/0
130	SUBTOTAL	80.8	TOTAL KVA	SUBTOTAL 460

PANEL A NEW  
 208/120 VOLTS, 3 # 4 WIRE, TYPE SE RATED CLASS: 14,000AC  
 RECESSED MOUNTED, 400 AMP MAIN, LUGS ONLY, NEUTRAL FULL

KVA CONN.	REMARKS OR EQUIPMENT SERVED	WIRE SIZE		KVA CONN.
		TRIP AMPS	CIRCUIT NO.	
0.2	RECEPTACLES	12	20	1.2
0.9	MUG FROSTER	12	20	1.1
1.2	POS	12	20	0.8
6.0	ESPRESSO	10	30	1.2
2.5	KSF-1	12	20	1.2
	SHUNT	13	12	0.9
	FREEZER	15	16	1.0
8.3	HP-1 OUTDOOR	8	45	1.0
	RECEPTACLES	10	20	0.4
	RECEPTACLES	21	22	0.4
7.1	HP-2 OUTDOOR	6	50	0.5
	RECEPTACLES	25	24	0.2
	RECEPTACLES	26	28	0.6
7.9	HP-1 INDOOR	8	40	0.2
	RECEPTACLES	31	32	0.4
8.5	HP-2 INDOOR	6	50	0.2
	RECEPTACLES	35	34	0.2
11.4	PANEL C	3	100	47.3
	SPARE	39	30	
	SPARE	41	42	
50.7	SUBTOTAL	109.3	TOTAL KVA	SUBTOTAL 58.6

PANEL B NEW  
 208/120 VOLTS, 3 # 4 WIRE, TYPE SE RATED CLASS: 14,000AC  
 RECESSED MOUNTED, 200 AMP MAIN, LUGS ONLY, NEUTRAL FULL

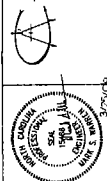
KVA CONN.	REMARKS OR EQUIPMENT SERVED	WIRE SIZE		KVA CONN.
		TRIP AMPS	CIRCUIT NO.	
0.9	LIGHTS	12	20	0.2
0.8	LIGHTS	12	20	0.2
1.5	LIGHTS	12	20	0.2
0.6	LIGHTS	12	20	0.2
1.6	LIGHTS	12	20	1.7
0.2	LIGHTS	12	20	1.7
0.9	LIGHTS	12	20	1.7
1.1	LIGHTS	12	20	1.7
0.5	SIGN	12	20	5.8
0.4	EMERGENCY LIGHTS	12	20	1.1
0.3	EXTERIOR LIGHTS	12	20	1.8
0.9	LIGHTS	12	20	0.2
0.9	LIGHTS	12	20	1.7
4.1	AC-1 OUTDOOR	10	30	1.4
	COFFEE	14	20	1.8
	COFFEE	14	20	1.8
1.0	RECEPTACLES	12	20	0.2
1.0	DISH-1	14	15	0.2
9.7	DISHWASHER	6	80	1.4
	RECEPTACLES	39	40	0.2
	RECEPTACLES	41	42	0.2
26.4	SUBTOTAL	47.3	TOTAL KVA	SUBTOTAL 20.9

PANEL C NEW  
 208/120 VOLTS, 3 # 4 WIRE, TYPE SE RATED CLASS: 14,000  
 RECESSED MOUNTED, 100 AMP MAIN, LUGS ONLY, NEUTRAL FULL

KVA CONN.	REMARKS OR EQUIPMENT SERVED	WIRE SIZE		KVA CONN.
		TRIP AMPS	CIRCUIT NO.	
3.4	KEF-1	10	25	6.9
	CONTROL PANEL	2	20	0.5
	CHEF'S BASE	4	20	6.9
	SHUNT	5	8	
2.2	STEAM TABLE	12	20	0.8
	SPARE	8	20	0.6
1.7	ICE MACH.	12	20	0.3
	JUICER	12	20	1.7
	COFFEE	14	20	1.7
0.5	GRINDER	12	20	0.2
	RECEPT. PATIO	18	20	0.2
	SPARE	12	20	
	SPARE	12	20	
	SPARE	12	20	
	SPARE	12	20	
3.1	SUBTOTAL	11.6	TOTAL KVA	SUBTOTAL 8.2

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**ELECTRICAL SPECIFICATIONS**

1. GENERAL AND SPECIAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND EVERY OTHER SPECIFICATION SECTION, APPLY TO THIS SECTION.
2. WHENEVER A MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT IS IDENTIFIED ON THE DRAWINGS BY REFERENCE TO MANUFACTURER'S OR VENDORS NAMES, TRADE NAMES, CATALOG NUMBERS, OR THE PART IS TO BE CENTERED FOR THE PURPOSES OF ESTABLISHING A STANDARD, AND ANY MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT OF OTHER MANUFACTURER OR VENDOR WHICH WILL PERFORM ACCURATELY THE DUTIES IMPOSED BY THE GENERAL DESIGN OR SPECIFICATION SHALL BE CONSIDERED EQUIVALENT PROVIDED THE MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT SHALL NOT BE PURCHASED OR INSTALLED BY THE CONTRACTOR WITHOUT THE ARCHITECT'S/ENGINEER'S WRITTEN APPROVAL.
3. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHOP DRAWINGS AND/OR MANUFACTURERS SUBMITTAL DATA WITH CAPACITY AND CHARACTERISTICS OF ALL MATERIAL AND EQUIPMENT FOR APPROVAL PRIOR TO PURCHASE AND/OR INSTALLATION OF THE WORK. A MINIMUM OF 4 COPIES SHALL BE SUBMITTED. SUBMITTALS SHALL BE IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.
4. ALL WORK SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES AND THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND AMENDMENTS, IF ANY, AS A MINIMUM. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND AMENDMENTS, IF ANY, AS A MINIMUM. FEES, PERMITS, AND UTILITY CHARGES. CONTRACTOR SHALL COORDINATE SERVICE CONNECTIONS REQUIREMENTS WITH UTILITY.
5. ALL WORK SHALL CONFORM TO BEST ELECTRICAL PRACTICE AND SHALL BE AS VANTAGED AGAINST DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION. INSTALLATION OF ELECTRICAL SYSTEMS SHALL NOT BE THE CATEGORY OF OTHER BUILDING COMPONENTS AND SYSTEMS, INCLUDING MECHANICAL, PLUMBING, AND FIRE PROTECTION, UNLESS NUMBERS EXIST FOR CONSTRUCTION ASSEMBLIES, ELECTRICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THESE OTHERS.
6. UNLESS OTHERWISE INDICATED, ALL MATERIAL SHALL BE NEW MATERIALS. SPECIAL APPROVALS AND PERMITS SHALL BE OBTAINED BY A QUALIFIED ENGINEER OR APPROVED THIRD PARTY TESTING AGENCY FOR THE USE INTENDED WHERE A WARNING FOR HIGH MATERIAL AND LIFE EXIST. SWITCHES, RECEPTACLES, AND OTHER DEVICES SHALL BE OF REPUTABLE MAKE, NEW, PROTECTIVE AND SAFETY LABELS SHALL BE CLEARLY VISIBLE.
7. ALL NEW WIRING SHALL BE CONCEALED AND OUTLETS AND PANELS FLUSH MOUNTED UNLESS OTHERWISE NOTED.
8. LIGHTING FIXTURES SHALL BE AS DESCRIBED IN THE EXISTING SCHEDULE. FIXTURES ARE TO BE LOCATED TO SUIT THE ARCHITECTURAL DETAILS OF THE AREA INVOLVED.
9. ALL NEW WIRING SHALL BE IN RACEWAYS, RACEWAYS ARE TO BE: MILD STEEL OR INTERMEDIATE METAL CONDUIT IN POWDER CONCRETE, MASONRY WALLS, VET. LOCATIONS, WALLS, EXCEPT TO EXPOSED OR IN HAZARDOUS LOCATIONS; ALL METAL METALIC TUBING SHALL NOT BE HUNG OR SUPPORTED ON WALLS OR PARTS THEREOF. METALIC TUBING SHALL NOT BE MOUNTED CLOSER THAN 4" TO FINISHED SURFACE. SCHEDULE 40 PIPE OR RIBBED GALVANIZED STEEL UNDERGOING A MINIMUM OF 24" BELOW CEILING OR UNDER SLABS AND FLEXIBLE VET. CONDUIT FOR CONNECTIONS TO RECESSED LIGHT FIXTURES AND VIBRATING EQUIPMENT USE FLEXIBLE TUBING FROM IDENTICAL WALL OR HANG LOCATIONS INCLUDING ATTACHES AND PUMP ROOMS. USE THREADED CONDUITS ON ROOF SITES, AND INTERMEDIATE METAL CONDUIT AND STEEL COMPRESSION COUPLERS ON ELECTRICAL MACHINES TUBING. ALL TERMINATIONS ARE TO UTILIZE INSULATING BUS-BINDS OR INSULATED THROUGH CONNECTORS. ALL CONDUIT RUN IN OR BELOW SLAB SHALL BE 3/4" MINIMUM.
10. BOXES FOR CONCEALED WORK TO BE STAMPED STEEL BOXES FOR EXPOSED WORK OR WEATHER-PROOF OUTLETS TO BE CAST 'S OR 'C' TYPE.
11. ALL CONDUCTIONS TO BE COMPLY WITH MINIMUM SIZE TO BE #12 AWG. INSULATION FOR CONDUCTORS SHALL BE 75 C. MINIMUM TYPE THW FOR WIRING #8 AND LARGER, TYPE THW/TM FOR SMALLER WIRES, EXCEPT GROUNDING CONDUCTORS AND CONNECTIONS TO EQUIPMENT PROVIDED LIGHTER TEMPERATURE RATING, ALL WIRES #8 AND LARGER SHALL BE STRANDED. SPICES TO BE IDEAL WIRE NUTS, AT FIXTURES WITH IDEAL WIRE NUTS OR 1/2" TIGHT CONNECTORS FOR #10 AND SMALLER WIRES AND APPROVED MECHANICAL CONNECTORS PLUS GUM FRICTION OR PLASTIC TAPE FOR #8 AND LARGER WIRES.
12. PANELS SHALL BE CUTLER-HAMMER, SQUARE D, GENERAL ELECTRIC, SIEMENS, APPROVED EQUAL WITH NEUTRAL AND GROUND BUS TO BE COPPER. CIRCUIT BREAKERS SHALL BE 200 A TYPE PROVIDE A NEATLY TYPED WRITTEN DIRECTORY TO PROPERLY INDICATE ALL CIRCUITS WITH SPACES AND SPACES NEATLY WRITTEN IN PANEL. ALL PANELS SHALL HAVE 3000V WITH LOCK.
13. ALL EQUIPMENT SCHEDULED BELOW SHALL BE PROPERLY IDENTIFIED WITH AN APPROVED WHITE CORE BLACK PNEUMATIC LABELS. PRINTED WITH PLASTIC TAPE WILL NOT BE ACCEPTED ATTACH PLATES WITH SHIELD METAL SCREWS.
 

DISCONNECTS:	LABEL - EQUIPMENT SERVED
	CIRCUIT NUMBER
	VOLTAGE AND PHASE
JUNCTION BOXES:	LABEL - SOURCE
	DESTINATION
	VOLTAGE AND PHASE
PANELBOARD:	LABEL - DESTINATION LETTER AND NUMBERS
	VOLTAGE AND PHASE
14. ALL ELECTRICAL EQUIPMENT CONNECTIONS SHALL BE RATED.

15. EMPTY RACEWAY SYSTEMS SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE INDICATED. PROVIDE 2118 AWG GALVANIZED STEEL WIRE IN ALL EMPTY RACEWAY SYSTEMS.
16. MOUNTING HEIGHTS SHOWN ON DRAWINGS OR IN SYMBOL SCHEDULE ARE TO CENTER OF OUTLET, UNLESS OTHERWISE NOTED.
17. METAL RACEWAYS MAY BE USED AS GROUNDING CONDUCTORS AS PERMITTED BY THE NEC EXCEPT WHERE GROUNDING WIRES ARE INDICATED.
18. THE ELECTRICAL CONTRACTOR SHALL DO ALL TRENCHING AND BACKFILLING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. TRENCHING AND SHORING SHALL CONFORM TO ALL LOCAL AND STATE REGULATIONS. FILLING SHALL BE DONE IN 6" INTERVALS, PACKING IN BETWEEN EACH INTERVAL AND SURFACE SHALL MATCH EXISTING.
19. ALL CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:
 

240/120V, 3-PHASE, 4 WIRE	208Y/120V, 3-PHASE, 4 WIRE	480Y/277V, 3-PHASE, 4 WIRE
PHASE A	PHASE B	PHASE C
BLACK	BROWN	RED
PHASE H	PHASE N	RED
RED	ORANGE	ORANGE
NEUTRAL	WHITE	BLUE
WHITE	YELLOW	WHITE WITH STRIPE (NOT GREEN)
GROUND	GREEN	GREEN

20. CONTRACTOR SHALL PROVIDE THE OWNER WITH A SET OF NEAT AND LEGIBLE AS-BUILT DRAWINGS.
21. FOR A 1-PHASE 120/240V SYSTEM PROVIDED BY THE MECHANICAL AND PLUMBING CONTRACTORS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY POWER WIRING NOT FACTORY INSTALLED AS A PART OF THE EQUIPMENT. MOTORS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTORS. CONTROLLERS WILL BE PROVIDED BY THE CONTRACTOR FURNISHING THE POWER EQUIPMENT, AND THESE CONTROLLERS WILL BE INSTALLED AND POWER WIRING CONNECTED TO THEM BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE INDICATED. CONTROL WIRING WILL BE BY THE CONTRACTOR SUPPLYING THE EQUIPMENT TO BE CONTROLLED.
22. FOR KITCHEN EQUIPMENT UNLESS OTHERWISE INDICATED, PROVIDE BRANCH CIRCUIT CONNECTIONS TO TERMINALS ON EQUIPMENT. UNLESS OTHERWISE SHOWN, CONNECT EQUIPMENT WITH SECALITE FLEX FROM FLUSH WALL BOXES OR FROM CAST IN BOXES ON MINIMUM 2" STANDOFF FROM JOINTS AND ALL WIRING IN FLOOR SHALL BE CONCEALED AND INDICATED FOR CONNECTION TO AN OR STATIONARY EQUIPMENT. PROVIDE SUITABLE HEAVY WIRE CORD WITH GROUNDING CONDUCTOR AND MATCHING COP.
23. FOR ALL EQUIPMENT REQUIRING ELECTRICAL SERVICES OTHER THAN THOSE LISTED ABOVE, THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO TERMINALS IN OR ON EQUIPMENT INCLUDING CONTROL WIRING. UNLESS OTHERWISE SHOWN, THESE CONNECTIONS SHALL BE MADE FROM JUNCTION BOXES ON SWITCHES, CONDUIT CUBES, AND/OR CONTROL DEVICES AS SHOWN ON THE DRAWINGS, WHICH COMPLY WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE EQUIPMENT SPECIFIED.
24. ALL RACEWAYS AND WALL OUTLETS IN FINISHED AREAS SHALL BE FLUSH IN FINISHED WALLS UNLESS SURFACE RACEWAY AND RECESSED AREAS ARE SHOWN.
25. A NEATLY TYPED WRITTEN DIRECTORY SHALL BE PROVIDED IN THE EXISTING PANEL TO PROPERLY INDICATE ALL CIRCUITS. ALL SPACES SHALL BE WRITTEN IN PANEL.
26. A FIRE ALARM SYSTEM SHALL BE INSTALLED, NON-CODED AND ANNUNCIATED. SEE SCHEDULE ON THE DRAWINGS FOR OPERATION OF ANY NON-CODED MANUAL STATION. SMOKE DETECTOR IN OTHER SERVICE IN ANY ZONE SHALL ACTUATE THE CONTROL PANEL SO THAT ALARM WILL SOUND THROUGHOUT THE BUILDING AND AT REMOTE RECEIVING STATION. DIGITAL TELEPHONE DIALER, THE ALARM SHALL CONTINUE TO SOUND UNTIL THE CONTROL PANEL IS MANUALLY RESET.

THE SYSTEM SHALL BE MANUALLY SUPERVISED AGAINST GROUNDING AND OPEN CIRCUITS. THE SYSTEM SHALL BE INSTALLED TO INITIATE AN ALARM AND INDICATING DEVICE. ANY FAILURE OF THE SYSTEM SHALL CAUSE A TROUBLE SIGNAL AT THE CONTROL PANEL. THE SIGNAL SHALL BE RETURNED TO NORMAL OR SILENCED BY A CUTOFF SWITCH ON THE CONTROL PANEL AND LIGHT A COMMON TROUBLE LIGHT. PROVIDE BATTERY SUPPLY FOR LOW BATTERY VOLTAGE. ALL INITIATING DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND TESTS OF EQUIPMENT SHALL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE MANUFACTURER. FINAL TEST RESULTS SHALL BE RECORDED ON STANDARD FORMS PROVIDED BY THE EQUIPMENT MANUFACTURER AND ALL RESULTS BE CERTIFIED BY THE MANUFACTURER'S REPRESENTATIVE TO CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.

THE FOLLOWING LIST OF THE EDWARDS SYSTEMS TECHNOLOGY (EST) COMPONENTS CONSISTS OF THE TYPE AND QUALITY OF EQUIPMENT TO BE PROVIDED.

CONTROL PANEL: LSS-4/12 (12 ZONE PANEL)  
 MANUAL STATION: 77-0-SPC  
 SMOKE DETECTORS: 8250B 200 (IONIZATION TYPE, STATE APPROVED)  
 SMOKE DETECTORS: 8270B-200 (PHOTOELECTRIC TYPE, STATE APPROVED)  
 HEAT AND SMOKE: 885-82-103 (ADA APPROVED)  
 DIET SMOKE DETECTOR HOUSING - DHA00P; SMOKE DETECTOR - 8270B-200  
 AIR SAMPLING TUBE: 6261-003 LENGTH AS REQUIRED (1/2" SAMPLING TUBE)  
 HEAT DETECTOR: 2118 (1 1/2" F. FIXED, RATE-ON-RISE)  
 HEAT DETECTOR: 2825 (1 1/4" F. FIXED)  
 REMOTE ANNUNCIATOR: SAN-6 WITH S.U.-16R

HEAT DETECTOR UNITS LOCATED IN BOILER ROOMS, SHOWERS, ATTIC SPACES, OR OTHER AREAS SUBJECT TO AMBIENTAL TEMPERATURE CHANGES SHALL OPERATE ON 94 F. FIXED TEMPERATURE PRINCIPLE ONLY.

THE DIGITAL TELEPHONE DIALER SHALL BE MISSOURI DIGITAL ELECTRONICS NPPA-71 TYPE, CAPABLE OF DIALING TWO OUTSIDE TELEPHONE NUMBERS.

27. THE CONTRACTOR SHALL INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER USE OF THE SYSTEM AND PROVIDE MAINTENANCE AND INSTRUCTION MANUALS. EACH MANUAL SHALL CONTAIN PARTS LIST, CERTIFIED FINAL TEST RESULTS, CONNECTION DIAGRAMS OF THE SYSTEM, A LIST OF NAMES, ADDRESSES AND TELEPHONE NUMBERS OF LOCAL SERVICING AGENCIES MAINTAINING PARTS AND AUTHORIZED TO MAKE NECESSARY REPAIRS AND/OR ADJUSTMENTS TO THE EQUIPMENT FURNISHED.
28. IN RENOVATED AREAS, REMOVE, DISCONNECT, AND MECHANICALLY AND ELECTRICALLY SECURE ALL FIXTURES, OUTLETS, MATERIAL, AND EQUIPMENT THAT ARE NOT TO BE USED IN THE NEW CONSTRUCTION, INCLUDING ALL WIRING CONCEALED IN PORTION OF BUILDING BEING DEMOLISHED.
29. PRIOR TO ANY INTERRUPTION OF ELECTRICAL SERVICE, THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 24 HOURS IN ADVANCE.
30. PROVIDE DRY TYPE TRANSFORMERS OF KVA SIZES AS NOTED ON THE DRAWINGS. UNLESS OTHERWISE SHOWN ON DRAWINGS, TRANSFORMERS SHALL BE WESTHOUSE TYPE EP, D, DS-3, OR EQUIVALENT, OR APPROVED EQUAL PRODUCTS OF GENERAL ELECTRIC OR SQUARE D.

ALL TRANSFORMERS SHALL HAVE STANDARD TAPS. TRANSFORMERS 30 KVA AND SMALLER SHALL HAVE AT LEAST THE EQUIVALENT OF 2-5% TAP TAPS. TRANSFORMERS LARGER THAN 30 KVA SHALL HAVE AT LEAST THE EQUIVALENT OF 4 1/2% TAP TAPS. THE CONTRACTOR SHALL ADJUST THE TRANSFORMER TAPS TO PROVIDE APPROXIMATELY THE SECONDARY VOLTAGE INDICATED AT NO LOAD.

TRANSFORMER RATED 350 THRU 3 KVA SHALL HAVE INSULATING MATERIALS RATED AND BE PROVIDED WITH 100% INSULATION. TRANSFORMERS 3 KVA THRU 4 1/2 KVA SHALL HAVE WITH A 100% CONTINUOUS LOAD APPLIED TO THE SECONDARY. TRANSFORMERS RATED 3 KVA THRU 15 KVA SHALL HAVE CLASS H INSULATION. THE DESIGNER DOES NOT TO EXCEED 115 DEGREE C. RISE ABOVE 40 DEGREE AMBIENT UNDER THE ABOVE FULL LOAD CONDITIONS. TRANSFORMERS 30 AND ABOVE SHALL BE CLASS H, 115 DEGREE C. TRANSFORMERS AND SHALL HAVE THE ABILITY TO CARRY A CONTINUOUS OVERLOAD WITHOUT EXCEEDING A 150 DEGREE C. RISE ABOVE 40 DEGREE AMBIENT.

SOUND LEVELS SHALL NOT EXCEED 45 DECIBELS FOR 525 KVA AND SMALLER MEASUREMENT OF SOUND LEVEL SHALL BE IN ACCORDANCE WITH NECA STANDARDS. TRANSFORMERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO PREVENT THE TRANSMISSION OF NOISE AND VIBRATION. TRANSFORMERS SHALL BE MOUNTED ON SUITABLE VIBRATION DAMPENERS AND PROVIDED WITH FLEXIBLE CONDUIT CONNECTIONS. FLOOR MOUNTED TRANSFORMERS SHALL BE SECURELY ANCHORED TO 4" CONCRETE FOUNDATIONS. SEE FOUNDATION ABOVE.

UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SINGLE PHASE TRANSFORMERS SHALL BE RATED 480 VOLTS TO 120/240 VOLTS, AND THREE-PHASE TRANSFORMERS SHALL BE RATED 480 VOLTS DELTA TO 208Y/120 VOLTS.

30. RECEPTACLES INDICATED ON DEDICATED 20A CIRCUIT SHALL HAVE A 20A RATING.
31. PROVIDE CORNELL #4200 ADD/INSUL RESISTANCE CALL SYSTEM. INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS AND NORTH CAROLINA HANDICAPPED CODE REQUIREMENTS. SYSTEM SHALL INCLUDE MAIN ANNUNCIATOR PANEL WITH 4 ZONES, REMOTE CALL STATIONS, POWER SUPPLY, BATTERY BACKUP, OUTLET BOXES, CABLES AND WIRING PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.

**ABBREVIATIONS**

A	AVPS
A.F.F.	ABOVE FINISHED FLOOR
C	CIRCUIT
EC	EMPTY CONDUIT
G	GROUND
GI	GROUND FAULT INTERRUPTER
LIS	LIGHTS
N	NEUTRAL
PNL	PANEL
RECEPTS	RECEPTACLES
W	WATER HEATER
V	VOLTS
WH	WATER HEATER
WI	WEATHERPROOF

CONNECTED LOAD SUMMARY			
LOAD	KVA	D.F.	KVA NET
RECEPTACLES	6.3	1.0	6.3
LIGHTS	7.9	1.25	9.9
WATER HEATER	13.0	1.0	13.0
WH	40.1	1.0	40.1
WH	0.7	1.0	0.7
WH	0.3	1.0	0.3
<b>TOTAL</b>	<b>67.9</b>		<b>69.9</b>
<b>LOAD CALCULATION</b>			
69.9 KVA / 0.36 KV = 194.2 AVPS			

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SHEET  
**E-3**  
 OF

**ELECTRICAL SPECIFICATIONS**

1. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 16 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
2. WHATEVER A MATERIAL, ARTICLE OR PIECE OF EQUIPMENT IS IDENTIFIED ON THE DRAWINGS BY REFERENCE TO MANUFACTURER'S OR VENDORS NAMES, TRADE NAMES, CATALOG NUMBERS, OR THE LIKE, IT IS SO INTENDED FOR THE PURPOSE OF ESTABLISHING A STANDARD, AND ANY MATERIAL, ARTICLE OR PIECE OF EQUIPMENT OF OTHER MANUFACTURER OR VENDORS WHICH WILL PERFORM ADEQUATELY THE DUTIES IMPOSED BY THE GENERAL PROVISIONS WILL BE CONSIDERED EQUALLY ACCEPTABLE. PROVIDED THE MATERIAL, ARTICLE OR PIECE OF EQUIPMENT IS, IN THE OPINION OF THE ARCHITECT/ENGINEER, OF EQUAL SUBSTANCE, APPEARANCE, AND FUNCTION. THE MATERIAL, ARTICLE OR PIECE OF EQUIPMENT SHALL NOT BE PURCHASED OR INSTALLED BY THE CONTRACTOR WITHOUT THE ARCHITECT/ENGINEER'S WRITTEN APPROVAL.
3. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, SHOP DRAWINGS AND/OR MANUFACTURERS SUBMITTALS DATA SHEET CAPACITY AND CHARACTERISTICS OF ALL MATERIAL AND EQUIPMENT FOR APPROVAL PRIOR TO PURCHASE AND OR INSTALLATION OF THE WORK. A MINIMUM OF 4 COPIES SHALL BE SUBMITTED. SUBMITTALS SHALL BE IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.
4. ALL WORK SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES AND THE NATIONAL ELECTRIC CODE, LATEST EDITION AND AMENDMENTS, IF ANY, AS A MINIMUM. ALL ELECTRICAL CONNECTIONS SHALL SHOW AND PAY FOR ALL LOCKWASHERS, KEYS, REPAIRS, AND UTILITY CHARGES. CONTRACTOR SHALL COORDINATE SERVICE CONNECTIONS REQUIREMENTS WITH UTILITY.
5. ALL WORK SHALL CONFORM TO BEST ELECTRICAL PRACTICE AND SHALL BE GUARANTEED AGAINST DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION. INSTALLATION OF ELECTRICAL SYSTEMS SHALL NOT BE THE INTEREST OF OTHER BUILDING COMPONENTS AND SYSTEMS, ELECTRICAL, MECHANICAL, PLUMBING, AND OTHER SYSTEMS. SERVICE NUMBERS EXIST FOR CONSTRUCTION ASSEMBLIES, ELECTRICAL EQUIPMENT AND MATERIALS SHALL CONFORM TO THESE CRITERIA.
6. FINISH IS OTHERWISE INDICATED. ALL MATERIAL SHALL BE NEW MATERIALS. PRODUCTS AND SYSTEMS ARE GUARANTEED TO BE IN FULL ACCORDANCE WITH AN APPROVED THIRD PARTY TESTING AGENCY FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIAL AND USE EXISTS. SWITCHES, RECEPTACLES, AND OTHER DEVICES SHALL BE IDENTIFICATION GRADE. WAYS THROUGH STRUCTURES SHALL COVER PLATES.
7. ALL NEW WIRING SHALL BE CONCEALED AND OUTLETS AND PANELS FINISH INSULATED UNLESS OTHERWISE NOTED.
8. LIGHTING FIXTURES SHALL BE AS DESCRIBED IN THE FIXTURE SCHEDULE. FIXTURES ARE TO BE LOCATED TO SUIT THE ARCHITECTURAL DETAILS OF THE AREA NOTED.
9. ALL TRUNKING SHALL BE IN MAINWAYS. MAINWAYS ARE TO BE RIGID STEEL OR INTERMEDIATE METAL CONDUIT IN REINFORCED CONCRETE, MASONRY WALLS, WET LOCATIONS, SHOWERS, BATHS, OR DAMAGE OR IN HAZARDOUS LOCATIONS. ELECTRICAL INTERFERENCE FROM ALL SERVICES SHALL BE PREVENTED. ELECTRICAL METALLIC THINGS SHALL NOT BE MOUNTED CLOSER THAN 6" TO FINISHED FLOOR. SCHEDULE AS TYPE OR TYPE EQUIVALENT STEEL UNDERGROUND A MINIMUM OF 24" BELOW GRADE OR UNDER SLABS, AND INTERMEDIATE METAL CONDUIT FOR CONNECTIONS TO RECESSED LIGHT FIXTURES AND VIBRATING EQUIPMENT. USE IDENTIFIED APPROVED METAL CONDUIT IN WALL OR DAMP LOCATIONS INCLUDING ATTIC, CRAWL, AND PLUMB ROOMS. USE THREADED COPULINGS IN ROOF STEEL AND INTERMEDIATE METAL CONDUIT AND STEEL COMPRESSOR COUPLINGS ON ELECTRICAL METALLIC THINGS. ALL TERMINATIONS ARE TO UTILIZE INSULATING BUSHINGS OR INSULATED IMPACT CONNECTORS AS CONDITIONED BY BELOW. ALL SHALL BE 1/4" MINIMUM.
10. BOXES FOR CONCEALED WORK TO BE STAMPED STEEL BOXES FOR EXPOSED WORK OR WEATHER PROOF OUTLETS TO BE CAST IN OR FD TYPE.
11. ALL CONDUCTIONS TO BE COPPER. MINIMUM SIZE TO BE #12 AWG. INSULATION FOR CONDUCTORS SHALL BE 75°C. MINIMUM TYPE THW FOR WIRING #8 AND LARGER, TYPE THHN/THWN FOR SMALLER WIRES, EXCEPT GROUNDING CONDUCTORS AND CONNECTIONS TO EQUIPMENT REQUIRING HIGHER TEMPERATURE RATING. ALL WIRES #8 AND LARGER SHALL BE STRANDED. SPLICES TO BE IDEAL WIRE NUTS, AT FIXTURES, WITH IDEAL WIRE NUTS OR 3/8" PITCH CONNECTORS FOR #10 AND SMALLER WIRES AND APPROVED MECHANICAL CONNECTORS PLUS GUM FRICTION OR PLASTIC TAPE FOR #8 AND LARGER WIRES.
12. PANELS SHALL BE CUTLER-HAMMER, SQUARE D, GENERAL ELECTRIC, SIEMENS OR APPROVED EQUAL WITH NEUTRAL AND GROUND BARS TO BE COPPER. CIRCUIT BREAKERS SHALL BE BOLT IN TYPE PROVIDE A NEATLY TYPED/WRITTEN DIRECTORY TO PROPERLY INDICATE ALL CIRCUITS WITH SPACES AND SPACES NEATLY WRITTEN IN PENCIL. ALL PANELS SHALL HAVE DOOR WITH LOCK.
13. ALL EQUIPMENT SCHEDULED BELOW SHALL BE PROPERLY IDENTIFIED WITH AN ENGRAVED WHITE GLOSS BLACK PHENOLIC NAMEPLATE. PRINTED LABELS OR PLASTIC TAPE WILL NOT BE ACCEPTED. ATTACH PLATES WITH SHEET METAL SCREWS.

DISCONNECTS:  
 LABEL - EQUIPMENT SERVED,  
 CIRCUIT NUMBER,  
 VOLTAGE AND PHASE.

JUNCTION BOXES:  
 LABEL - SOURCE,  
 DESTINATION,  
 VOLTAGE AND PHASE.

PANELBOARDS:  
 LABEL - DESTINATION LETTER AND NUMBERS,  
 VOLTAGE AND PHASE.

14. ALL ELECTRICAL EQUIPMENT CONNECTIONS SHALL BE IDENTIFIED.

15. EMPTY RACEWAY SYSTEMS SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.
16. MOUNTING HEIGHTS SHOWN ON DRAWINGS OR IN SYMBOL SCHEDULE ARE TO CENTER OF OUTLET, UNLESS OTHERWISE NOTED.
17. METAL RACEWAYS MAY BE USED AS GROUNDING CONDUCTORS AS PERMITTED BY THE NEC EXCEPT WHERE GROUND WIRES ARE INDICATED.
18. THE ELECTRICAL CONTRACTOR SHALL DO ALL TRENCHING AND BACKFILLING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. TRENCHING AND SHORING SHALL CONFORM TO ALL LOCAL AND STATE REGULATIONS. FILLING SHALL BE DONE AT 8' INTERVALS, PACKING IN BETWEEN EACH INTERVAL AND SURFACE SHALL MATCH EXISTING.
19. ALL CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

240V/208V, 1-PHASE, 4 WIRE	208Y/120V, 3-PHASE, 4 WIRE	480Y/277V, 3-PHASE, 4 WIRE
PHASE A - BLACK	PHASE A - BLACK	PHASE A - BROWN
PHASE B - RED	PHASE B - RED	PHASE B - ORANGE
PHASE C - WHITE	PHASE C - BLUE	PHASE C - YELLOW
GROUND - GREEN	GROUND - GREEN	GROUND - GREEN

20. CONTRACTOR SHALL PROVIDE THE OWNER WITH A SET OF NEAT AND LEGIBLE AS-BUILT DRAWINGS.
21. FOR ALL POWER EQUIPMENT PROVIDED BY THE MECHANICAL AND PLUMBING CONTRACTORS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY POWER WIRING NOT FACTORY INSTALLED AS A PART OF THE EQUIPMENT. MOTORS SHALL BE CONDUIT RATED FOR PROPER INSTALLATION. ALL MOTOR CONTROLS SHALL BE PROVIDED BY THE CONTRACTOR FURNISHING THE POWER EQUIPMENT AND THESE CONTROLS SHALL BE INSTALLED AND POWER WIRING CONNECTED TO THEM BY THE ELECTRICAL CONTRACTOR. UNLESS OTHERWISE INDICATED, CONTROL WIRING WILL BE BY THE CONTRACTOR SUPPLYING THE EQUIPMENT.
22. FOR KITCHEN EQUIPMENT, UNLESS OTHERWISE INDICATED, PROVIDE BRANCHED CIRCUIT CONNECTIONS COMPLETE TO TERMINALS ON EQUIPMENT. UNLESS OTHERWISE SHOWN, CONNECT EQUIPMENT WITH 1/2" FLEX FROM FLUSH WALL BOXES OR FROM CAST IN BOXES ON MAXIMUM 1" STANDOFF FROM COUPLING. ALL WIRING IN KITCHEN, SHOWERS, BATHS, AND OTHER HIGH CONCENTRATION OF WATER OR STATUARY EQUIPMENT, PROVIDE SUITABLE HEAVY DUTY COPR WITH GROUNDING CONDUCTOR AND MATCHING COP.
23. FOR ALL EQUIPMENT REQUIRING ELECTRICAL SERVICES OTHER THAN MENTIONED ABOVE, THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO THE TERMINALS IN OR ON EQUIPMENT. INCLUDING CONTROL WIRING WHERE SHOWN. DRAWINGS. THESE CONNECTIONS SHALL BE MADE FROM JUNCTION BOXES, SWITCHES, CONTROL DEVICES, AND/OR CONTROL DEVICES AS INDICATED ON DRAWINGS, WHICH COMPLY WITH REQUIREMENTS OF THE MANUFACTURER OF THE EQUIPMENT SPECIFIED.
24. ALL RACEWAYS AND WALL MOUNTED IN OUTLETS AND RECESSED IN FURRED WALLS UNLESS SURFACE RACEWAY AND RECESSED AS INDICATED.
25. A NEATLY TYPED/WRITTEN DIRECTORY SHALL BE PROVIDED IN THE EXISTING PANEL TO PROPERLY INDICATE ALL CIRCUITS. SPARE SPACES SHALL BE WRITTEN.
26. THE FIRE ALARM SYSTEM SHALL BE ZONE, NON-CODED AND UNANNOUNCED. SEE THE SCHEDULE ON THE DRAWINGS FOR THE IDENTIFICATION OF ANY NON-CODED MANUAL STATION. SMOKE DETECTOR OR OTHER DEVICE IN ANY ZONE SHALL ACTUATE THE CONTROL PANEL SO THAT ALL ZONE BELL SOUNDS THROUGHOUT THE BUILDING AND AT A RECEIVING AGENCY. THE CONTROL PANEL SHALL BE MANUALLY RESET. THE SYSTEM SHALL BE IDENTIFIED BY SUPERVISED AGAINST GROUNDS AND OPEN CIRCUITS ON THE CONTROL PANEL. THE ALARM INITIATING OR INDICATING DEVICE ANY GROUP OF OPEN CIRCUIT SHALL CAUSE A TROUBLE SIGNAL AT THE CONTROL PANEL TO SOUND UNLESS RETURNED TO NORMAL OR SILENCED BY A CUTOFF SWITCH ON THE CONTROL PANEL. A LIGHT A COMMON TROUBLE LIGHT, PROVIDE BATTERY SUPERVISION AND LOW BATTERY VOLTAGE. ALL INITIATING DEVICES SHALL BE IDENTIFIED BY ALARM VERIFICATION.

27. THE CONTROL PANEL SHALL CONTAIN ALL NECESSARY POWER TO OPERATE ANY AND ALL COMPONENTS OF THE SYSTEM. THE COMPONENTS SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL CONFORM TO ALL LOCAL, STATE AND NATIONAL CODES. FINAL CONNECTIONS AND TESTS OF EQUIPMENT SHALL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE MANUFACTURER. FINAL TEST RESULTS SHALL BE RECORDED ON STANDARD FORMS PROVIDED BY THE EQUIPMENT MANUFACTURER AND ALL RESULTS BE CERTIFIED BY THE MANUFACTURER'S REPRESENTATIVE TO CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.

THE FOLLOWING LIST OF THE EDWARDS SYSTEMS TECHNOLOGY (EST) COMPONENTS CONSTITUTE THE TYPE AND QUANTITY OF EQUIPMENT TO BE PROVIDED:

- CONTROL PANEL - LS54/12 (12 ZONE PANEL)  
 MANUAL FIRE STATION - 270-590  
 SMOKE DETECTORS - 6250B-200 (IONIZATION TYPE, STATE APPROVED)  
 SMOKE DETECTORS - 6270B-200 (PHOTOELECTRIC TYPE, STATE APPROVED)  
 HORN AND SIREN - 101 (40A APPROVED)  
 DUC SMOKE DETECTOR - HOUSING - D4400P; SMOKE DETECTOR - 6270B-200  
 AIR SAMPLING TUBES - 6251-003 LENGTH AS REQUIRED (42" SAMPLING TUBE)  
 HEAT DETECTOR - 2818 (125 F. FIXED RATE-OF-RISE)  
 HEAT DETECTOR - 2828 (194 F. FIXED)  
 REMOTE ANNUNCIATOR - SAN-4 WITH SLU-16R

HEAT DETECTOR UNITS LOCATED IN BOILER ROOMS, SHOWERS, ATTIC SPACES, OR OTHER AREAS SUBJECT TO ABNORMAL TEMPERATURE CHANGES SHALL OPERATE ON 194 F. FIXED TEMPERATURE PRINCIPLE ONLY.

THE DIGITAL TELEPHONE DIALER SHALL BE VISSOURI DIGITAL ELECTRONICS N-PA-71 TYPE, CAPABLE OF DIALING TWO OUTSIDE TELEPHONE NUMBERS.

THE CONTRACTOR SHALL INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER USE OF THE SYSTEM AND PROVIDE MAINTENANCE AND INSTRUCTION MANUALS. EACH MANUAL SHALL CONTAIN PARTS LISTS, CERTIFIED FINAL TEST RESULTS, CONNECTION DIAGRAMS OF THE SYSTEM, A LIST OF NAMES, ADDRESSES AND TELEPHONE NUMBERS OF LOCAL SERVICE AGENCIES MAIN-TAINING PARTS AND AUTHORIZED TO MAKE NECESSARY REPAIRS AND/OR ADJUSTMENTS TO THE EQUIPMENT FURNISHED.

27. IN RENOVATED AREAS, REMOVE, DISCONNECT, AND MECHANICALLY AND ELECTRICALLY SECURE ALL FIXTURES, OUTLETS, MATERIAL, AND EQUIPMENT THAT ARE NOT TO BE USED IN THE NEW CONSTRUCTION, INCLUDING ALL WIRING CONCEALED IN PORTION OF BUILDING BEING DEMOLISHED.
28. PRIOR TO ANY INTERRUPTION OF ELECTRICAL SERVICE, THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 24 HOURS IN ADVANCE.
29. PROVIDE DRY TYPE TRANSFORMERS OR OTHER TYPES AS NOTED ON THE DRAWINGS. UNLESS OTHERWISE SHOWN ON DRAWINGS, TRANSFORMERS SHALL BE WET-STOREHOUSE TYPE EP, DIT, DS-3, OR DT-1, TYPE, TABLE, OR APPROVED EQUAL PRODUCTS OF GENERAL ELECTRIC OR SQUARE D.

ALL TRANSFORMERS SHALL HAVE TAP AND TAPS. TRANSFORMERS 30 KVA AND SMALLER SHALL HAVE AT LEAST THE EQUIVALENT OF 2-5% FCBN TAPS. TRANSFORMERS LARGER THAN 30 KVA SHALL HAVE AT LEAST THE EQUIVALENT OF 4-2 1/2% FCBN TAPS. THE CONTRACTOR SHALL ADJUST THE TRANSFORMER TAPS TO PRODUCE APPROXIMATE SECONDARY VOLTAGE INDICATED AT NO LOAD.

TRANSFORMER RATIO 000 THRU 2 KVA SHALL HAVE INSULATING MATERIALS RATED AT LEAST 100% OF RATED VOLTAGE. TRANSFORMERS 3 KVA THRU 15 KVA SHALL HAVE CLASS II INSULATION. TRANSFORMERS 15 KVA THRU 30 KVA SHALL HAVE CLASS II RISE ABOVE 4-0 DEGREE AMBIENT UNDER THE ABOVE FULL LOAD CONDITIONS. TRANSFORMERS 30 KVA AND ABOVE SHALL BE CLASS II, 15 DEGREES C, TRANSFORMERS SHALL BE PERMITTED TO EXCEED 4 DEGREES C, UNLESS OTHERWISE INDICATED. SOUND LEVELS SHALL NOT EXCEED 55 DEGBELS FOR SIZES 225 KVA AND SMALLER. MEASUREMENT OF SOUND LEVEL SHALL BE IN ACCORDANCE WITH NECA STANDARDS. TRANSFORMERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO PREVENT THE TRANSMISSION OF NOISE AND VIBRATION. TRANSFORMERS SHALL BE MOUNTED ON SUITABLE VIBRATION DAMPENERS AND PROVIDED WITH FLEXIBLE CONDUIT CONNECTIONS. FLOOR MOUNTED TRANSFORMERS SHALL BE SECURELY ANCHORED TO 4" CONCRETE FOUNDATIONS. SEE "FOUNDATION" ABOVE.

UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SINGLE PHASE TRANSFORMERS SHALL BE RATED 480 VOLTS TO 120/240 VOLTS, AND THREE-PHASE TRANSFORMERS SHALL BE RATED 480 VOLTS DELTA TO 208Y/120 VOLTS.

30. RECEPTACLES INDICATED ON SCHEDULED 20A CIRCUIT SHALL HAVE A 20A RATING.
31. PROVIDE CORNELL #4200 AUDIO/VISUAL RESCUE ASSISTANCE CALL SYSTEM. INSTALLATION SHALL COMPLY WITH ADA REQUIREMENTS AND NORTH CAROLINA HANDICAPPED CODE REQUIREMENTS. SYSTEM SHALL INCLUDE MAIN ANNUNCIATOR PANEL WITH 4 ZONES, REMOTE CALL STATIONS, POWER SUPPLY, BATTERY BACKUP, OUTLET BOXES, CABLES AND WIRING PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.

**ABBREVIATIONS**

A	AMPS
A.F.F.	ABOVE FINISHED FLOOR
C	CONDUIT
EC	EMPTY CONDUIT
G	GROUND
GFI	GROUND FAULT INTERRUPTER
LTS	LIGHTS
N	NEUTRAL
PAL	PANEL
RECEPTS	RECEPTACLES
UH	UNIT HEATER
V	VOLTS
WH	WATER HEATER
WP	WEATHERPROOF
IG	ISOLATED GROUND

CONNECTED LOAD SUMMARY			
LOAD	KVA CONR.	D.F.	KVA NET
RECEPTACLES	6.5	1.0	6.5
LIGHTS	10.1	1.25	12.6
OHV	57.6	1.0	57.6
HVAC	42.5	1.0	42.5
WATER HEATER	0.7	1.0	0.7
SOB	0.5	1.0	0.5
TOTAL	117.4		120.4

**LOAD CALCULATION**

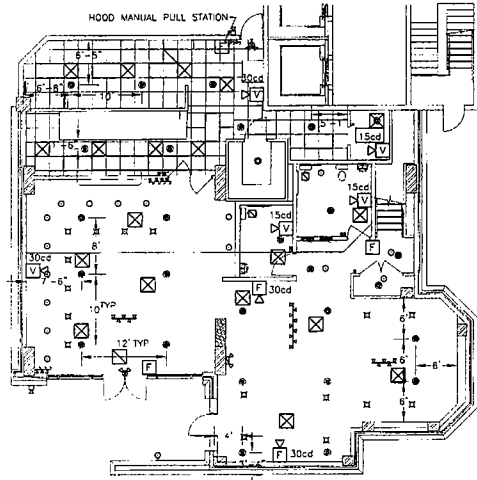
120.4 KVA / 0.36 KV = 334.4 AMPS

**SEAN REYMAN**  
 PROJECT MANAGER  
 5999 JUNE RD  
 CHARLOTTE, NORTH CAROLINA 28210  
 704.771.7171

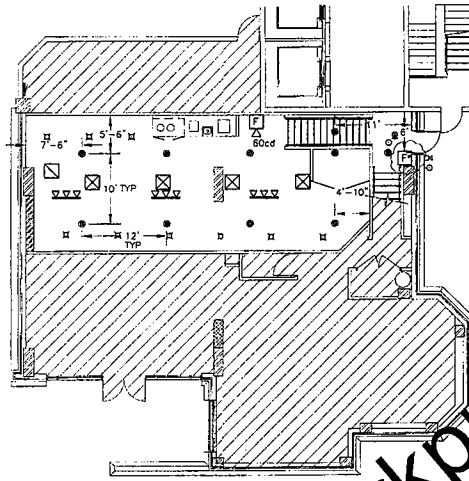


**TERRACE CAFE**  
 4625-105 PIEDMONT ROW DR.  
 CHARLOTTE, NORTH CAROLINA 28210

REVISION - 4/3/09



FIRE PLAN  
1/8"=1'



FIRE PLAN  
1/8"=1'

FIRE SYMBOL SCHEDULE

- MANUAL STATION, MOUNT 48" A.F.F.
- F4 FLUSH MOUNTED HORN WITH VISUAL STROBE; WALL MOUNT SUCH THAT ENTIRE LENS IS NOT LESS THAN 80" A.F.F., AND NOT MORE THAN 96" A.F.F.
- F4N FLUSH MOUNTED VISUAL STROBE; WALL MOUNT SUCH THAT ENTIRE LENS IS NOT LESS THAN 80" A.F.F., AND NOT MORE THAN 96" A.F.F.
- S1 SURFACE MOUNTED HORN-STROBE; SIGNIFICANT RANGE; MOUNT SUCH THAT ENTIRE LENS IS NOT LESS THAN 80" A.F.F., AND NOT MORE THAN 96" A.F.F.
- SD SMOKE DETECTOR.
- SD S1 SURFACE MOUNTED SINGLE STATION SMOKE DETECTOR WITH ALARM SOUNDER IN UNIT BASE.
- H1 HEAT DETECTOR WITH FIXED TEMP RATE OF RISE.
- DS DUCT SMOKE DETECTOR.
- DS DUCT DETECTOR WITH REMOTE INDICATING LIGHT.
- FS SPRINKLER FLOW SWITCH
- F2C FLUSH MOUNTED CONTROL CABINET.
- F2A FIRE ALARM ANNUNCIATOR PANEL.
- D1 DIGITAL DIALER.
- F2R FIRE ALARM RADIO TRANSMITTER CABINET, SURFACE MOUNTED.
- R1 CALL STATION, MOUNT 48" A.F.F.
- R2 RESCUE ASSISTANCE ANNUNCIATOR PANEL.

SPRINKLER NOTES:

1. ALL UNDERGROUND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24.
2. ALL INTERIOR SPRINKLER WORK, INCLUDING INSTALLATION, TESTING AND SHOP DRAWINGS SHALL BE IN ACCORDANCE WITH NFPA 13
3. ALL WORK SHALL COMPLY WITH THE SPECIFICATIONS.
4. THE CONTRACTOR SHALL COORDINATE ALL OUTSIDE WORK WITH THE SITE PLAN AND VERIFY THE EXACT LOCATION OF THE EXISTING MAIN AND MAKE ANY ADJUSTMENTS AS MIGHT BE REQUIRED TO PROVIDE A COMPLETE AND ACCEPTABLE SYSTEM.
5. THE CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS AND CALCULATIONS AS REQUIRED BY THE LOCAL AUTHORITIES IF THERE ARE ANY MODIFICATIONS AND/OR CHANGES TO THE LAYOUT. THE "AS BUILT'S" AND CALCULATIONS SHALL BE SEALED BY A REGISTERED FIRE PROTECTION ENGINEER, REGISTERED IN THE STATE OF NORTH CAROLINA AND SHALL BE SUBMITTED TO THE GOVERNING AUTHORITIES AND THE ARCHITECT/ENGINEER FOR REVIEW AND/OR APPROVAL.

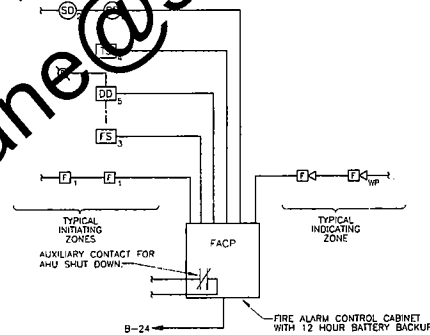
SPRINKLER LEGEND

- PENDANT HEAD
- DRY TYPE

FIRE NOTES:

1. MAIN ROOM TO 1 EA. TYPE ABC EXTINGUISHER PLACED AS LOCATED BY FIRE MARSHAL UPON INSPECTION
2. KITCHEN TO HAVE K GUARD EXTINGUISHER PLACED AS LOCATED BY FIRE MARSHAL UPON INSPECTION
3. NOTE ON PLANS THAT FUEL/ELECTRIC SUPPLY WILL BE ARRANGED TO BE SHUT DOWN UPON FIRE SUPPRESSION SYSTEM ACTIVATION IBC 904.11.2.
4. FIRE CONTRACTOR SHALL DROP EXISTING SPRINKLER HEADS DOWN INTO GRID CEILING AND INSTALL WITH ALL MFM, ACC. AND TRIM RINGS
5. ALL INTERIOR FINISHES SHALL COMPLY WITH IFC T-803.3
6. FIRE ALARM CONTROL PANEL IS LOCATED IN MAINTENANCE ROOM

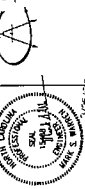
FIRE ALARM SYSTEM MATRIX	BUILDING SYSTEM OUTPUTS		CENTRAL COMM	
MANUAL FIRE ALARM PULL BOXES	X	X	X	X
TRADING SMOKE DETECTOR	X	X	X	X
FIRE ALARM A.C. POWER FAILURE	X	X	X	X
FIRE ALARM SYSTEM LOW BATTERY	X	X	X	X
OPEN CIRCUIT	X	X	X	X
GROUND FAULT	X	X	X	X
NOTIFICATION APPLIANCE CIRCUIT SHORT	X	X	X	X
SPRINKLER WATER FLOW	X	X	X	X
HOOD SUPPRESSION SYSTEM	X	X	X	X
TRAPPER SWITCHES	X	X	X	X



PARTIAL FIRE ALARM RISER DIAGRAM

SEAN REYMAN  
5132 CRAFTSMAN RIDGE DR.  
STALLINGS, NC 28104  
(704) 904-4717

CROCKFORD AND ASSOCIATES, INC.  
ENGINEERS  
5950 JARVIS RD.  
CHARLOTTE, NORTH CAROLINA 28210  
MEMBER, N.C. STATE BAR 1977



TERRACE CAFE  
4625-105 PEIDMONT ROW DR.  
CHARLOTTE, NORTH CAROLINA 28210



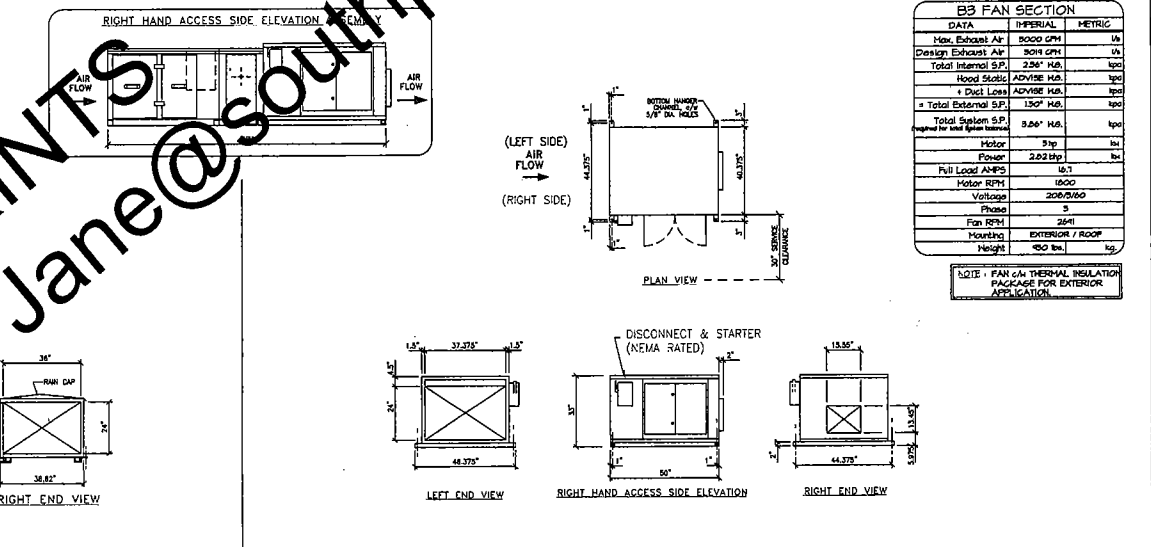
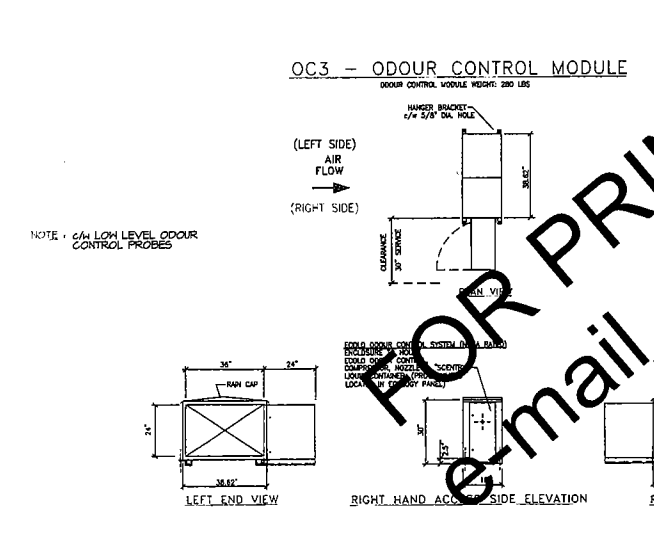
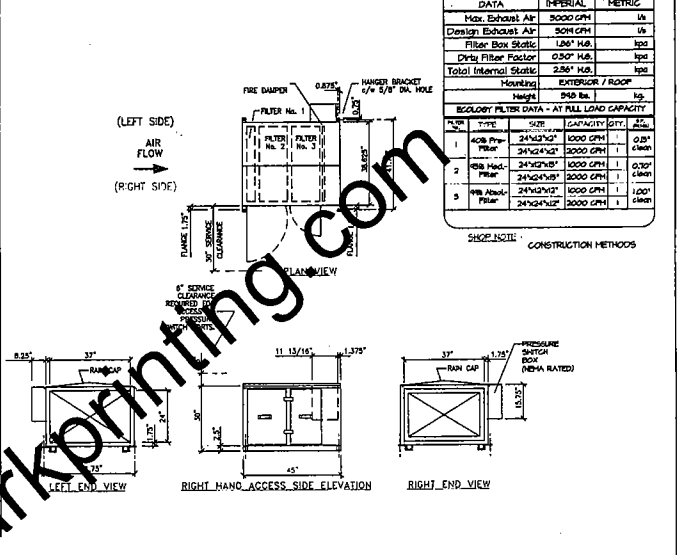
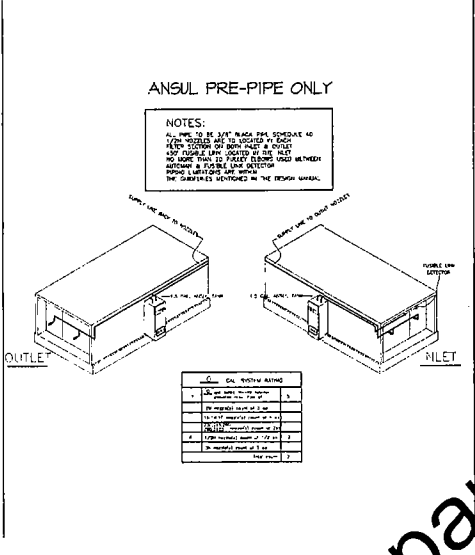
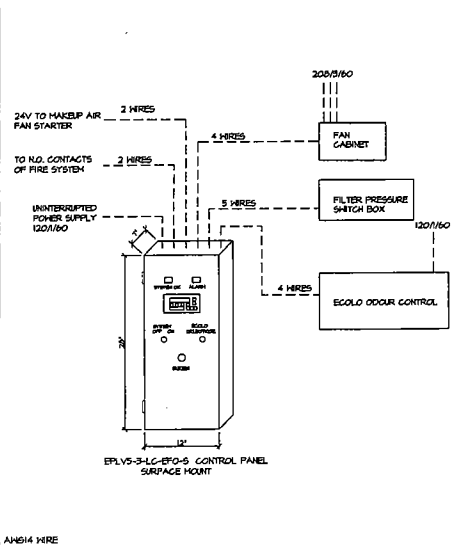
**SPECIAL NOTES TO MECHANICAL TRADES**

**GENERAL:**  
 - CABINETS ARE OF WELDED STEEL CONSTRUCTION, FINISHED AND PAINTED.  
 - ECOLOGY UNIT IS UL 1 UL6 LISTED.  
 - INSTALLATION:  
 - THE EXHAUST FAN CONNECTION, AS THE EXHAUST FAN IS TO BE CONTINUOUSLY HELD OPEN, SHALL BE MADE BY THE CONTRACTOR.  
 - ALL DUCT WORK BETWEEN EXHAUST VENTILATION, EXHAUST UNIT AND EXHAUST FAN SHALL BE MADE OF GALVANIZED STEEL.  
 - ALL DUCT CONNECTIONS TO THE UNITS MUST BE MADE BY THE CONTRACTOR.  
 - EXHAUST DUCT MUST BE INSTALLED BETWEEN EXHAUST FAN AND EXHAUST UNIT AND ECOLOGY FILTER SECTION MUST CONFORM TO KPFA 45 STANDARDS.  
 - ALL DUCT WORK BETWEEN EXHAUST VENTILATION, EXHAUST UNIT AND EXHAUST FAN SHALL BE MADE OF GALVANIZED STEEL.  
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 - EXHAUST DUCT MUST BE INSTALLED BETWEEN EXHAUST FAN AND EXHAUST UNIT AND ECOLOGY FILTER SECTION MUST CONFORM TO KPFA 45 STANDARDS.

**GENERAL SEQUENCE OF OPERATION**

**SEQUENCE OF OPERATION:**  
 SYSTEM ON HOOD:  
 - SELECTOR SWITCH IN "ON" POSITION  
 - EXHAUST FAN ON  
 - MAKE-UP AIR FAN ON (OPTIONAL)  
 SYSTEM OFF HOOD:  
 - SELECTOR SWITCH IN "OFF" POSITION  
 - EXHAUST FAN OFF  
 - MAKE-UP AIR FAN OFF (OPTIONAL)  
 FIRE HOOD:  
 - EXHAUST FAN STAYS ON  
 - MAKE-UP AIR FAN TURNS OFF (OPTIONAL)

**NOTES:**  
 - FIELD WIRING (BY E.C.)  
 FOR CONTROL CIRCUITS USE 24V, AN614 WIRE UNLESS OTHERWISE REGULATED



**NOTE TO APPROVER:**  
 THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY OFFICE WITHIN 10 BUSINESS DAYS OF THE DATE OF ISSUE. ANY CHANGES TO THIS DRAWING MUST BE APPROVED BY THE DESIGNER AND THE APPROPRIATE FACTORY OFFICE. APPROVED FOR FABRICATION:

WITH NO CHANGES  
 WITH CHANGES AS NOTED

**REVISIONS:**

REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

**MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:**

HALTON CO. (USA)  
 101 INDUSTRIAL DRIVE  
 MISSISSAUGA, ONTARIO  
 L4X 1V7

HALTON CO. (CANADA)  
 101 INDUSTRIAL DRIVE  
 MISSISSAUGA, ONTARIO  
 L4X 1V7

**PROJECT:** TERRACE CAFE  
**LOCATION:** CHARLOTTE, NC  
**DRAWN BY:** S.B. DATE: 01/24/08  
**CONSULTANT:** HALTON REP.

**DRAWING NO.:** 16098

**Halton**

**GENERAL SPECIFICATIONS**

- HOOD CONSTRUCTION AND DESIGN MEETS UNIFORM MECHANICAL AND INC 2003.
- HOOD IS NSF AND ETL LISTED CU 133481832-002
- ALL SURFACES OF HOOD ARE CONSTRUCTED OF 16 GA STAINLESS STEEL. SEAMS ARE CONTINUOUS WELDED HOOD TRIM.
- ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODES. REQUIREMENTS.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH WITH THE REMOVAL OF GROUT AND GREASE. WASH HOODS FROM ORIGINAL COOKING EQUIPMENT.
- FIRE SUPPRESSIONS BY OTHERS.
- ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.
- THE CAPTURE JET FAN AND SPEED CONTROL ARE PROVIDED BY HALTON. FIELD WORK IS REQUIRED.
- CLEARANCE FROM HOODS AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE FOR APPLICABLE BUILDING CODES.
- FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.

**INSTALLATION REQUIREMENTS**

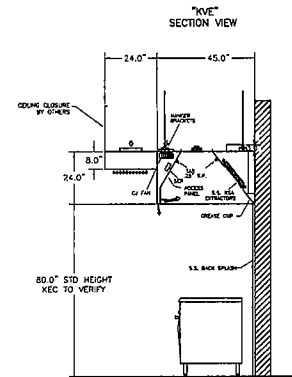
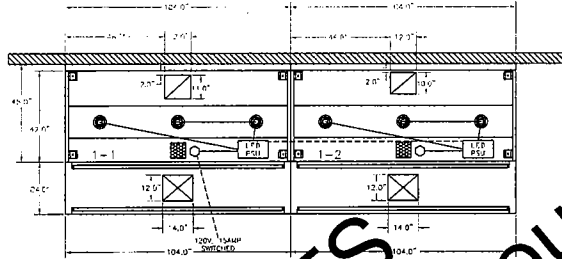
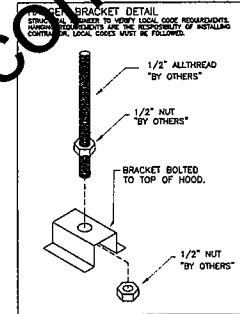
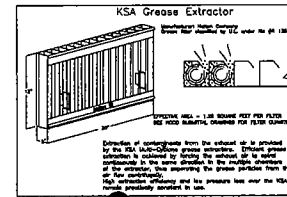
- FOODSERVICE EQUIPMENT CONTRACTOR'S REQUIREMENTS
- PROVIDE DRAWINGS TO APPROPRIATE TRADES. RETROFITTING UTILITY SERVICE AND COORDINATE FINAL CONNECTION.
  - DELIVER, ASSEMBLE AND INSTALL HALTON SYSTEM PER DRAWING.
  - FLUSH WIRING AND PLENUM DIAGRAMS TO END USER.
  - THE F.S.E.C MUST INFORM HALTON OF ANY CHANGES IN EQUIPMENT OR BUILDING STRUCTURE. FIELD MODIFICATIONS ARE THE RESPONSIBILITY OF THE F.S.E.C.
- ELECTRICAL CONTRACTOR'S REQUIREMENTS
- PROVIDE 120V CIRCUIT FOR HOOD LIGHTS AND CU FANS WIRED FROM SWITCH PANEL. WHEN MULTIPLE HOODS ARE CONNECTED TOGETHER, COMPLETE FIELD WIRING BETWEEN HOODS.
- FLUORESCENT LIGHT FEATURE  
40 WATT MAX BALLAST - 7 AMP EA
- RECESSED INCANDESCENT LIGHT FEATURE  
100 WATT MAX BALLAST - 1.2 AMP EA
- GLASS INCANDESCENT LIGHT FEATURE  
100 WATT MAX BALLAST - 7 AMP EA
- LED LIGHT FEATURES - 30 AMP EA
- CAPTURE JET FAN - 3 AMP EA

**HOOD INFORMATION TABLE**

HOOD NO.	HOOD MODEL	EXHAUST CFM	TAB PORT STATIC PRESSURE	TOTAL HOOD STATIC PRESSURE	AIR FLOW REQUIREMENTS			SUPPLY CFM	SUPPLY S.P.	HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	PLENUM WEIGHT (LBS)
					GREASE EXTRACTOR							
					QTY	SIZE	TYPE					
1-1	KVE	1604	.22"	.44"	5	20" x 13"	KSA	1117	.16"	ALL 18GA 304 S.S.	650	130
1-2	KVE	1415	.22"	.44"	0	11" x 13"	KSA	1116	.16"	ALL 18GA 304 S.S.	650	130

TOTAL EXHAUST: 3019

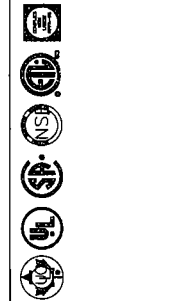
TOTAL SUPPLY: 2233



FOR PRINTS  
e-mail Jane@southparkprinting.com

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY VERIFYING THE FOLLOWING:

- ALL DIMENSIONAL WORKING DRAWINGS LOCATING DIMENSIONS AND CLEARANCES.
  - THE LOCATION AND TYPE OF COOKING EQUIPMENT.
- NOTE TO APPROVER:  
ANY CHANGES IN COOKING EQUIPMENT SUCH AS REVISIONS, ADDITIONS AND/OR DELETIONS MUST BE NOTIFIED BY THE GENERAL CONTRACTOR. APPROVAL MAY BE REQUIRED. APPROVED FOR FABRICATION:
- WITH NO CHANGES  
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

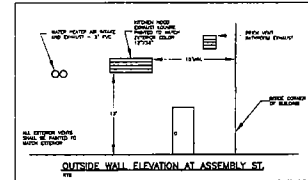
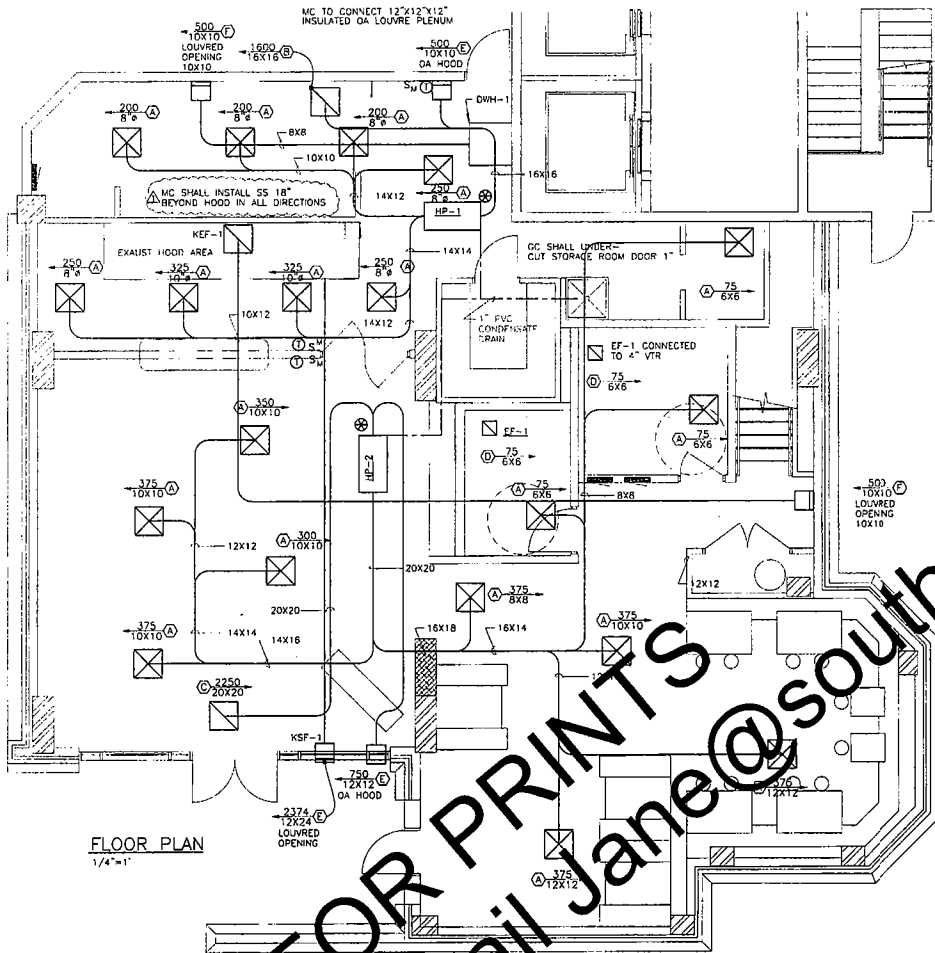
HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, AZ 85257-2626	BY DATE
HALTON CO. (CANADA) 1421 BRECKINRIDGE PLACE MISSISSAUGA, ONTARIO L4X 1L3	BY DATE
REVISION DESCRIPTION	BY DATE
1	
2	
3	
4	
5	
6	

PROJECT: TERRACE CAFE  
LOCATION: CHARLOTTE, NC  
DRAWN BY: HR | DATE: 02/11/09  
CONSULTANT: HALTON REP: ---

DRAWING No.: 16098A

THIS DRAWING IS NOT TO BE SCALED





MC SHALL INSTALL HVAC LINES THROUGH EXISTING DEVELOPER PROVIDED CHASE TO ROOF TOP

SYMBOL	FINISH	NECK SIZE	THROW	REMARKS
A	SMOKE DETECTOR	10"X10"	4 WAY	
B	SMOKE DETECTOR	15"X16"	4 WAY	
C	SUPPLY	20"X20"	4 WAY	
D	SUPPLY	6"X6"	4 WAY	
E	EXHAUST	VARIES		LOUVRE TO MATCH EXTERIOR
F	EXHAUST	VARIES		LOUVRE TO MATCH EXTERIOR

FLOOR PLAN  
1/16"=1'

EXHAUST HOOD NOTES

- ALL EXHAUST HOODS SHALL BE CONSTRUCTED OF 18 GAUGE 304 STAINLESS STEEL FOR ALL SURFACES EXPOSED TO THE AIRSTREAM AND 18 GAUGE GALVANIZED STEEL FOR OTHER SURFACES. ALL SEAMS AND JOINTS SHALL HAVE A LIQUID TIGHT U.L. APPROVED CONTINUOUS EXTERNAL WELD.
- ENTIRE SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH NATIONAL SANITATION FOUNDATION STANDARDS, NFPA-96, NFPA-17-A, AND ALL GOVERNING CODES.
- EXHAUST HOODS SHALL BE PROVIDED WITH A ANSUL R-102 AUTOMATIC FIRE EXTINGUISHING SYSTEM FOR PROTECTION OF THE EXHAUST HOOD, PLENUM, GREASE FILTERS, EXHAUST DUCT AND COOKING EQUIPMENT. THE SYSTEM SHALL EMPLOY A LIQUID CHEMICAL EXTINGUISHMENT. THE SYSTEM SHALL BE ARRANGED TO SHUT OFF THE SOURCE OF COOKING HEAT AUTOMATICALLY UPON SYSTEMS OPERATION. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-96, NFPA-17-A AND ACCORDING TO MANUFACTURERS PRINTED INSTALLATION PROCEDURES. EACH HOOD SHALL HAVE A SEPARATE FIRE EXTINGUISHING SYSTEM WHICH WILL OPERATE EFFECTIVELY WITH OR WITHOUT FANS OPERATING.
- WRAP EXHAUST DUCT WITH FRYE WRAP DUCT INSULATION AND WRAP SUPPLY DUCT FIBERGLASS DUCT WRAP.
- EXHAUST AND SUPPLY FANS OF EACH HOOD SHALL BE INTERLOCKED, PROVIDE ONE LIGHT SWITCH AND ONE FAN SWITCH ON THE FACE OF EACH GREASE HOOD.
- GREASE FILTERS TO BE THE GREASE ELIMINATOR SELF BALANCING TYPE U.L. APPROVED.
- EXTEND FULL STAINLESS STEEL WALL FROM CANOPY TO FINISHED FLOOR BEHIND COOKING EQUIPMENT EXTENDING 18" FROM HOODS IN ALL DIRECTIONS.
- HOODS SHALL BE UL-710 LISTED.

SYMBOL LEGEND

- MANUAL SHUT OFF THERMOSTAT
- SMOKE DETECTOR
- SUPPLY DIFFUSER
- RETURN GRILLE
- TYPE
- CFM
- NECK SIZE

SPLIT SYSTEM AIR CONDITIONING UNITS

NO.	CFM	O.A. CFM	COOLING @ 95°F				ELECTRICAL DATA OUTDOOR UNIT								ELECTRICAL DATA INDOOR UNIT				OUTDOOR UNIT TRANE MODEL NUMBER	INDOOR UNIT TRANE MODEL NUMBER	REMARKS
			MBH	EAT/LAT	SEER	SEER	COMPRESSOR	CONDENSER FAN	VOLTS/Φ	RLA	FLA	MCA	MOP	INDOOR FAN	ELECTRIC HEAT	VOLTS/Φ	FLA	MCA			
AC-1	1800	500	48.0	80/67	13.0	208/3	14.7	20	30	208/1	4.2	208/1	3.6	12.3	27	30	27TA30RHC30DA	TW6D4BA1	1,2,3		

SPLIT SYSTEM HEAT PUMPS

NO.	CFM	O.A. CFM	COOLING @ 95°F				ELECTRICAL DATA OUTDOOR UNIT								ELECTRICAL DATA INDOOR UNIT				OUTDOOR UNIT TRANE MODEL NUMBER	INDOOR UNIT TRANE MODEL NUMBER	REMARKS			
			MBH	EAT/LAT	SEER	SEER	COMPRESSOR	CONDENSER FAN	VOLTS/Φ	RLA	FLA	MCA	MOP	INDOOR FAN	ELECTRIC HEAT	VOLTS/Φ	FLA	MCA				MOP		
HP-1	2000	500	80.0	80/67	10.0	56.0	70	3.2	208/3	19.7	208/1	1.9	40	45	208/1	5.9	208/3	6.6	23.0	38	40	27WA006A300D	TW6E0B300E	1,2,3
HP-2	3000	750	91.0	80/67	10.1	87.0	70	3.3	208/3	25.1	208/1	3.4	34.5	50	208/3	6.2	208/3	11.25	39.4	46	50	27WA009A3	TW6E0DA3	1,2,3

- PROVIDE EMERGENCY SHUT OFF SWITCH AS PER CODE
- PROVIDE PROGRAMMABLE THERMOSTAT.
- SMOKE DUCT DETECTORS ARE PROVIDED BY FIRE ALARM CONTRACTOR.

• SEER  
THERE IS EXISTING FIRE ALARM IN ENTIRE BUILDING

SEAN REYMAN  
5132 CRAFTSMAN RIDGE DR.  
STALLINGS, NC 28104  
(704) 904-4171

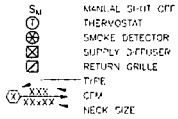
CROCKFORD AND ASSOCIATES, INC.  
ENGINEERS  
5940 PARKVIEW RD.  
SUITE 610  
CHARLOTTE, NORTH CAROLINA 28210  
PHONE: 704-582-0700

TERRACE CAFE  
4625-105 PIEDMONT ROW DR.  
CHARLOTTE, NORTH CAROLINA 28210

REVISION: 4/3/09

SHEET M-1

**SYMBOL LEGEND**



**AIR BALANCE CALCULATION**

UNIT	CFM	EXHAUST	OUTSIDE AIR	RETURN AIR	MAKE UP
HA-1	2000	-	500	1500	-
HA-2	5000	-	750	2250	-
KFE-1	3020	3020	-	-	-
KSF-1	2374	-	-	-	2374
EP-1 (MEN'S)	150	150	-	-	-
EP-1 (WOMEN'S)	150	150	-	-	-
WC-1	1000	-	500	1100	-
DWH-1	450	450	-	-	-
<b>TOTAL</b>		<b>3770</b>	<b>1750</b>	<b>4850</b>	<b>2374</b>

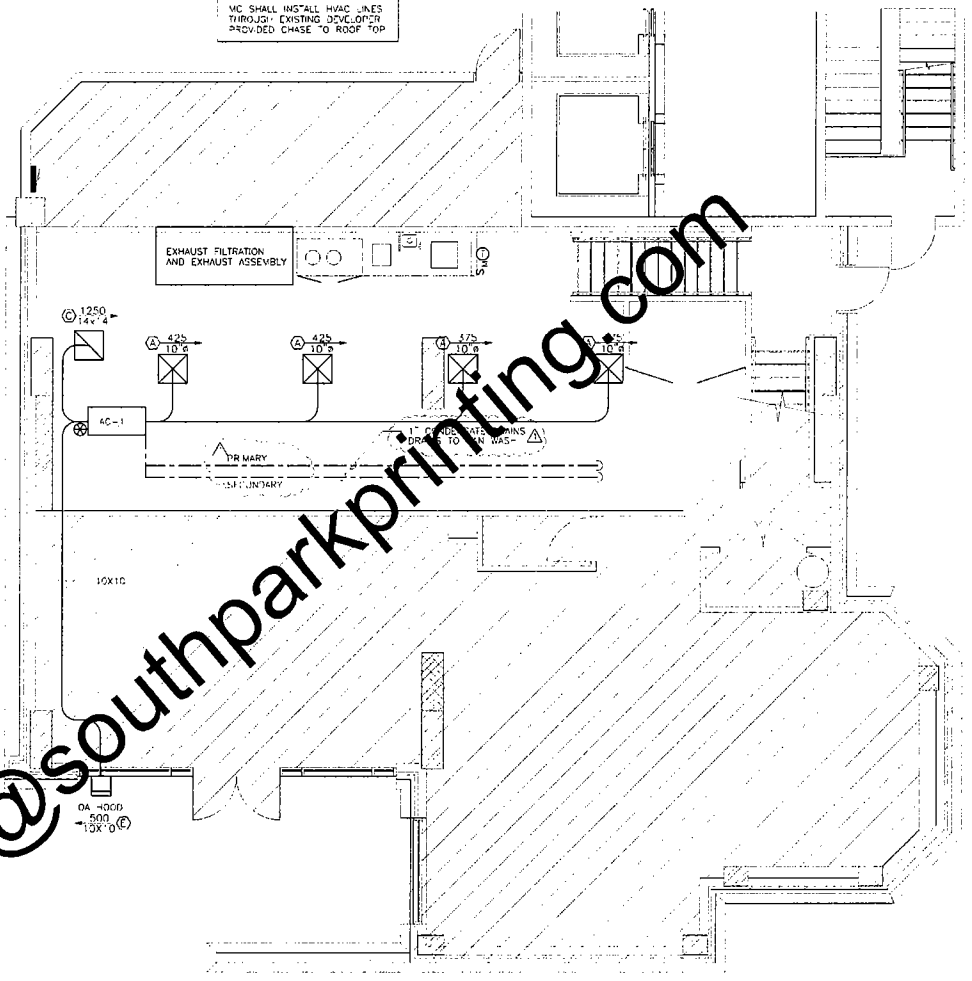
TOTAL BROUGHT IN 4124

**OUTSIDE AIR CALCULATION**

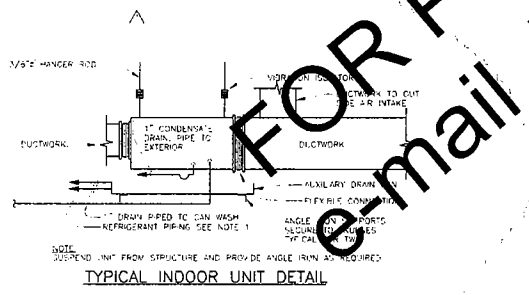
AREA	SIZE SQ FT	REQUIREMENT	CALCULATION	TOTAL NEEDED
WOMEN'S	-	150	WOMEN'S	150
MEN'S	-	150	WOMEN'S	150
KITCHEN	700	-	20 OCC X 15 CFM / OCC	217
DINING 1ST FLOOR	1214	-	75 OCC X 15 CFM / OCC	1597
DINING 2ND FLOOR	771	-	75 OCC X 15 CFM / OCC	867
<b>TOTAL</b>				<b>3333 CFM</b>

TOTAL BROUGHT IN 4124 CFM

VC SHALL INSTALL HVAC LINES THROUGH EXISTING DEVELOPER PROVIDED CHASE TO ROOF TOP



**MEZZANINE PLAN**  
1/4"=1'

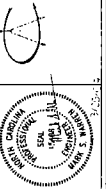


**TYPICAL INDOOR UNIT DETAIL**

FOR PRINTS  
email Jane@southparkprinting.com

SEAN REYMANN  
SEAN REYMANN ENGINEERS, INC.  
10100 W. GARDNER BLVD.  
SUITE 100  
DALLAS, TX 75241  
(214) 350-4717

CROCKFORD AND ASSOCIATES, INC.  
ENGINEERS ARCHITECTS  
9600 SUITE 910  
CHARLOTTE, NORTH CAROLINA 28210  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NORTH CAROLINA



TERRACE CAFE  
4625-105 PEIDMONT ROW DR.  
CHARLOTTE, NORTH CAROLINA 28210

REVISED: \_\_\_\_\_  
DATE: \_\_\_\_\_

SHEET  
M 2  
OF

**HVAC SPECIFICATIONS**

**CONDITIONS OF THE CONTRACT:**

DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

**GENERAL:**

HVAC WORK SHALL BE AS INDICATED ON THE PLANS AND AS HEREIN SPECIFIED. THE WORK SHALL CONSIST OF PROVIDING COMPLETE OPERATIONAL HVAC SYSTEMS AS INDICATED ON THE DRAWINGS. THE SYSTEM SHALL BE TESTED AND BALANCED. CAPACITIES SHALL BE AS SHOWN ON THE DRAWINGS. ADJUSTMENTS AS REQUIRED SHALL BE MADE BY THE CONTRACTOR TO INSTALL THE WORK WITHIN THE INTENT OF THE DRAWINGS AND SPECIFICATIONS AND TO PROVIDE AN ACCEPTABLE SYSTEM IN ACCORDANCE WITH STATE CODES, LOCAL CODES, SEISMIC REQUIREMENTS AS REQUIRED BY CODE, ASHRAE AND SMACNA RECOMMENDATIONS.

WHENEVER A MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT IS IDENTIFIED ON THE DRAWINGS BY REFERENCE TO MANUFACTURERS' OR VENDORS NAMES, TRADE NAMES, CATALOG NUMBERS, OR THE LIKE, IT IS SO IDENTIFIED FOR THE PURPOSE OF ESTABLISHING A STANDARD, AND ANY MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT OF OTHER MANUFACTURERS OR VENDORS WHICH WILL PERFORM ADEQUATELY THE DUTIES IMPOSED BY THE GENERAL DESIGN WILL BE CONSIDERED EQUALLY ACCEPTABLE PROVIDED THE MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT SO PROPOSED IS IN THE OPINION OF THE ARCHITECT/ENGINEER, OF EQUAL SUBSTANCE, APPEARANCE, AND FUNCTION. THE MATERIAL, ARTICLE OR PIECE OF EQUIPMENT SHALL NOT BE PURCHASED OR INSTALLED BY THE CONTRACTOR WITHOUT THE ARCHITECT'S/ENGINEER'S WRITTEN APPROVAL.

**SUBMITTALS:**

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, SHOP DRAWINGS AND/OR MANUFACTURERS SUBMITTAL DATA WITH CAPACITY AND CHARACTERISTICS OF ALL MATERIAL AND EQUIPMENT FOR APPROVAL PRIOR TO PURCHASE AND OR INSTALLATION OF THE WORK. A MINIMUM OF 4 COPIES SHALL BE SUBMITTED. SUBMITTALS SHALL BE IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

**DUCTWORK:**

DUCTWORK SHALL BE OF THE SIZE AS INDICATED ON THE PLANS WITH INTERNAL INSULATION PROVIDED ON ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK. INSULATION SHALL BE THICK 1-1/2" RFP, FIBERGLASS, NEOPRENE COATED, AND ADHERED WITH AN APPROVED ADHESIVE WITH 100% COVERAGE AND STRIP CLIPS ON 12" CENTERS. ROUND DUCTWORK, BOTH METAL AND FLEXIBLE SHALL BE INSULATED WITH 1" THICK 1-1/2" RFP FIBERGLASS INSULATION. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA RECOMMENDATIONS. ALL DUCTWORK SIZES INDICATED ARE NET SIZES. DUCTWORK SHALL BE INCREASED TO ALLOW FOR INTERNAL INSULATION. ALL SQUARE ELBOWS SHALL INCLUDE SINGLE THICKNESS TURNING VANES.

FLEXIBLE DUCTWORK SHALL NOT BE LONGER THAN 8 FEET. ALL TAKE-OFF FITTINGS SHALL HAVE EXTRACTORS AND DAMPERS. STAINLESS STEEL CLAMPS SHALL BE USED FOR ALL FLEXIBLE CONNECTIONS. FLEXIBLE DUCTWORK SHALL BE UL 181 LISTED.

**GAS PIPING:**

PIPE AND FITTINGS SHALL BE BLACK STEEL WITH MALLEABLE IRON FITTINGS UP THROUGH 2" IPS. AND STEEL WELDING FITTINGS 2-1/2" IPS. AND ABOVE. DIELECTRIC COUPLINGS OR UNIONS SHALL BE UTILIZED WHEN PIPING OF DISSIMILAR METAL IS CONNECTED.

GAS PIPING SYSTEM SHALL BE INSTALLED TO THE REQUIREMENTS OF THE ADA PAMPHLET "INSTALLATION OF GAS APPLIANCES AND GAS PIPING" AND NFPA STANDARD NO. 54. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY ALL FEES WITH THE "LOCAL" GAS COMPANY FOR THE INSTALLATION OF THE GAS METER, GAS SERVICE, AND ITS ACCESSORIES.

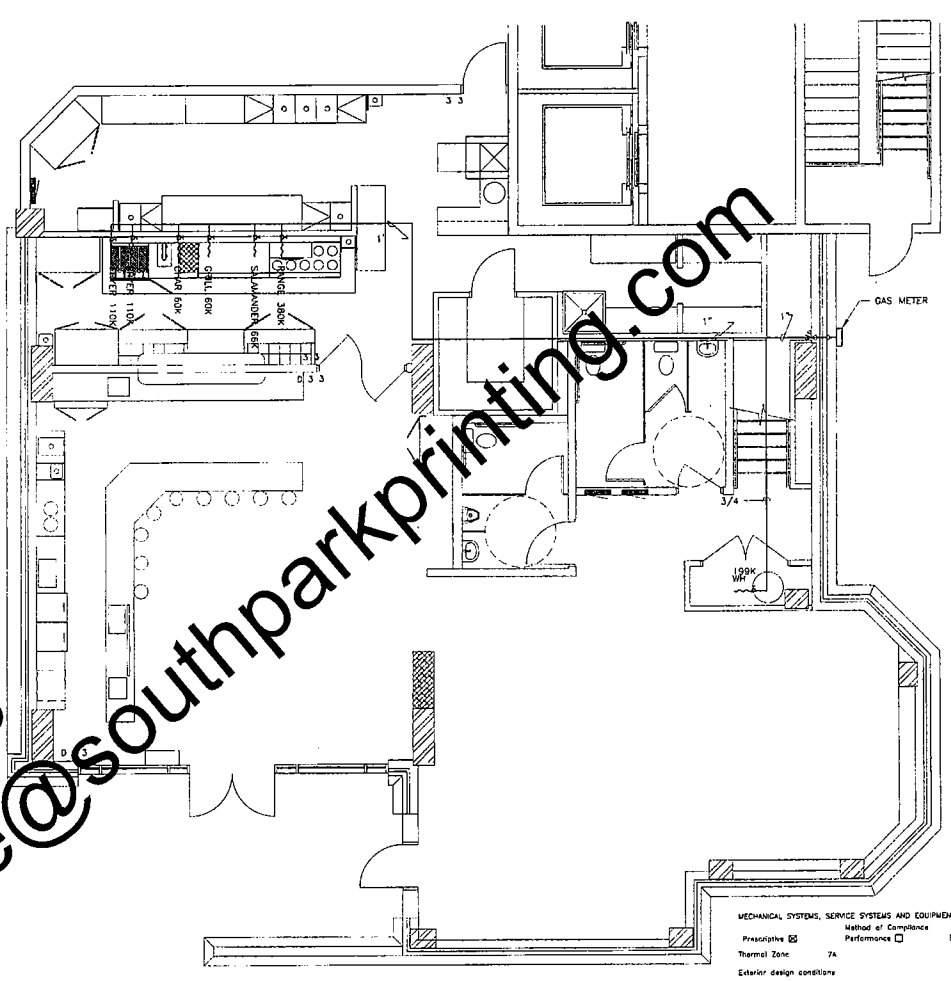
GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA NO. 54. ANY OTHER TESTS AS REQUIRED BY THE LOCAL BUILDING INSPECTION DEPARTMENT OR GAS COMPANY SHALL ALSO BE PERFORMED. PAINT GAS PIPING WITH RUST RESISTANT PAINT.

**FOURWAYS:**

ALL AIR HANDLING EQUIPMENT, DIFFUSERS, GRILLES, REGISTERS, FANS, REFRIGERATION UNITS, ETC., SHALL BE PROVIDED AS SCHEDULED ON THE DRAWINGS. CONTROLS SHALL BE PROVIDED AS REQUIRED AND DESCRIBED ON THE DRAWINGS AND IN COMPLIANCE WITH LOCAL ENERGY CODES. ALL CONTROL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH NEC REQUIREMENTS. ALL RELAYS, INTERLOCKS, ETC., SHALL BE PROVIDED AS REQUIRED. POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. WIRING AND INCLUDING FINAL CONNECTION. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS, DISCONNECTS, AND OTHER DEVICES AS REQUIRED BY CODE UNLESS OTHERWISE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL MOUNT ALL DEVICES, ETC., AND THE ELECTRICAL CONTRACTOR SHALL WIRE THEM AS REQUIRED. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NEC. REFRIGERANT PIPING WHERE REQUIRED SHALL BE OF THE PREVIOUS TYPE AS SUPPLIED BY THE REFRIGERATION EQUIPMENT MANUFACTURER, PROPERLY TESTED AND INSULATED OR FIELD FABRICATED AT THE CONTRACTOR'S OPTION. FIELD FABRICATED REFRIGERANT PIPING SHALL BE TYPE L-1, A-1, COPPER, BRAZED, INSULATED WITH 1" ARMAFLEX AND WEATHERPROOFED. PIPING SHALL BE LABELED AND PIPED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S COMMENTS (OWN) AND SHALL INCLUDE SIGHT GLASSES, SERVICE VALVES, AND FILTER DRYERS WITH DRYERS WHEN INDICATED OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER FOR PROPER EQUIPMENT OPERATION. ALL PIPING ARRANGEMENTS SHALL BE APPROVED BY THE EQUIPMENT MANUFACTURER AND THE ENGINEER PRIOR TO INSTALLATION. EQUIPMENT SHALL BE PROVIDED WITH SOLATORS, FLEXIBLE CONNECTIONS, AND EQUIPMENT CONNECTIONS AND INSULATED DRAIN LINES PIPED TO FLOOR DRAINS, SINK DRAINS, OR OTHER DRAIN POINTS.

**TESTING & CLOSEOUT:**

THE CONTRACTOR SHALL TEST ALL DUCT AND PIPING SYSTEMS FOR LEAKAGE, BALANCE AIR AS INDICATED, CHARGE REFRIGERATION EQUIPMENT, PROVIDE CLEAN FILTERS, START SYSTEMS, AND INSTRUCT THE OWNER IN OPERATION OF THE SYSTEMS. ALL TEST AND BALANCING HAS BEEN ACCOMPLISHED. ALL LEAKS OBSERVED IN THE SYSTEM SHALL BE REPAIRED BY EITHER REPLACING OR REPAIRING THE DEFECTIVE PART OR EQUIPMENT IN A MANNER APPROVED BY THE ENGINEER. THE ENTIRE HVAC SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. ALL DEFECTIVE EQUIPMENT AND/OR MATERIALS SHALL BE REPLACED AT NO EXPENSE TO THE OWNER. ALL REFRIGERATION COMPRESSORS SHALL HAVE AN EXTENDED WARRANTY FOR FOUR ADDITIONAL YEARS. ALL GUARANTEES SHALL BE WRITTEN, DATED, AND FORWARDED TO THE OWNER.



**GAS PIPING PLAN**  
1/4"=1'

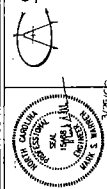
GAS CONSUMPTION		
ITEM	BTU (K)	REMARKS
FRYER (2)	210	
RANGES	396	
CHAR	45	
GRILL	150	
SALAMANDER	40	
WH	199	
<b>TOTAL</b>	<b>1040K BTU</b>	
100 FT DEVELOPED LENGTH, 2 PSI, 1" SCHEDULE 40 PIPE		

ALL INTERIOR FINISHES SHALL COMPLY WITH T-803.3 IFC

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT		
Prescriptive	Method of Compliance	Energy Cost Budget
Thermal Zone	74	
Exterior design conditions		
winter dry bulb	15	
summer dry bulb	95	
Interior design conditions		
winter dry bulb	70	
summer dry bulb	75	
relative humidity	50	
Building heating load	149.25 mbh	
Building cooling load	193 mbh	
Mechanical Spring Conditioning System		
Unitary	description of unit	2-SPLIT SYSTEM HEAT PUMPS 1-SPLIT SYSTEM AC
heating efficiency		N/A
cooling efficiency		N/A
net heat output of unit		see schedule
cooling method of unit		see schedule
boiler		no
chiller		no
chiller output		no
chiller output		no
Equipment efficiencies		N/A
Equipment schedule		with motor/mechanical systems
motor horsepower		N/A
number of phases		N/A
minimum efficiency		N/A
motor type		N/A
# of poles		N/A

**SEAN REYMAN**  
5132 CRAFTSMAN RIDGE DR.  
STALLINGS, NC 28104  
(704) 904-4717

**CROCKFORD AND ASSOCIATES, INC.**  
ENGINEERS  
9650 FALCON RD.  
CHARLOTTE, NORTH CAROLINA 28210  
QUARTER 42, P.O. BOX 1337



**TERRACE CAFE**  
4825-105 PEIDMONT ROW DR.  
CHARLOTTE, NORTH CAROLINA 28210

**HOOD INFORMATION**

HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM				SUPPLY PLENUM				HOOD CONSTRUCTION	HOOD CONFIG.			
				TOTAL EXH. CFM	WIDTH	LENGTH	DIA.	CFM	S.P.	TOTAL SUP. CFM	WIDTH		LENGTH	DIA.	CFM	S.P.
1 & 2	ND-2-PSP-R	9'	0.007 Non-Dep.	3000	13"	13"	2400	-0.525"	2374					430 SS Where Exposed	ALDNE	N/A

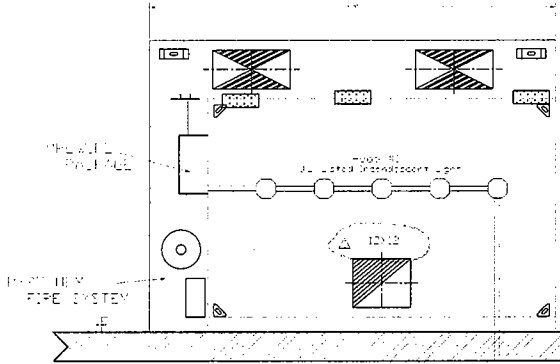
**HOOD INFORMATION**

HOOD NO.	FILTER(S)				LIGHT(S)		UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD WEIGHT		
	TYPE	QTY	HEIGHT	LENGTH	TYPE	QTY	FIRE SYSTEM	ELECTRICAL	SWITCHES	LOCATION				
1	Alum. Baffle w/ Handles	5	16"	16"	Incaandescent Light	5	NO	Right	Pyralchen	21111002	1 Light 1 Fan	Outside	YES	450 LBS.

**PERFORATED SUPPLY PLENUM(S)**

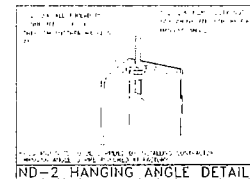
HOOD NO.	PDS.	LENGTH	WIDTH	HEIGHT	EXHAUST PLENUM			CFM	S.P.
					WIDTH	LENGTH	DIA.		
1	Front	216"	16"	8"	12"	28"	2374	0.525"	

PLAN VIEW - HOOD #1



SECTION VIEW - HOOD #1

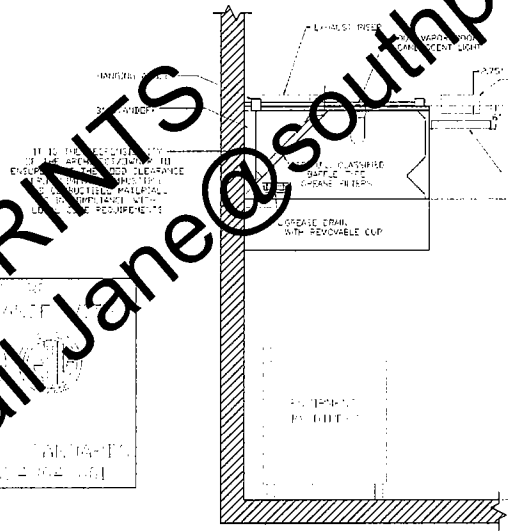
SECTION VIEW - HOOD #1



ND-2 HANGING ANGLE DETAIL



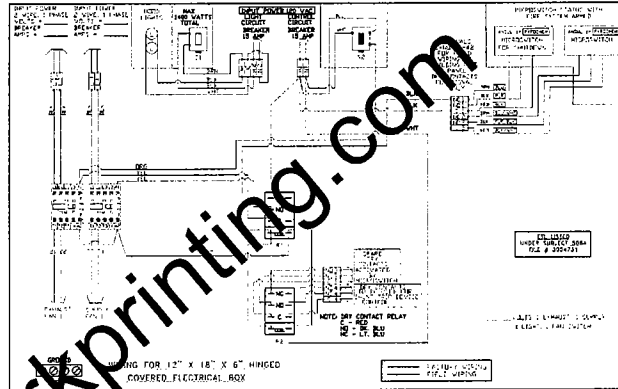
SECTION VIEW - MODEL ND-2 with PSP Accessory



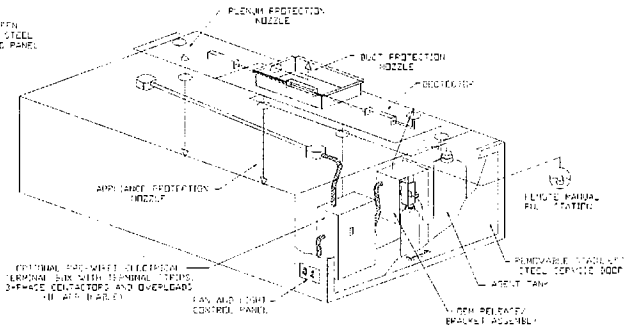
**PREWIRE PACKAGE INFORMATION**

NO.	NO. OF WIRING	LOCATION	WIRING		WIRING	WIRING	WIRING	WIRING
			TYPE	QUANTITY				
1	2111002	Wiring Cabinet Left Side of Hood #1	1	1	1	1	1	1

NOTE: IF WALL MOUNT PREWIRE, OR FIELD INSTALLED FIRE SYSTEM MICROSWITCH TERMINALS SHOWING FACTORY WIRING MUST BE FIELD WIRED



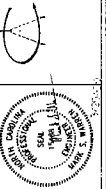
WIRING FOR 12" X 18" X 6" HINGED COVERED ELECTRICAL BOX



TYPICAL LIQUID FIRE SYSTEM LAYOUT  
HOOD DETAIL FOR TERRACE CAFE

SEAN REYMANN  
5152 DASH ISMAN RIDGE DR.  
STALLISS, NC 28104  
(704) 901-4717

CROCKFORD AND ASSOCIATES, INC.  
ENGINEERS  
9939 SUITE 110  
CHARLOTTE, NORTH CAROLINA 28210



TERRACE CAFE  
4625-105 PIEDMONT ROW DR.  
CHARLOTTE, NORTH CAROLINA 28210

REVISION: 1.3.04

SHEET  
M-4





**PLUMBING - LIFE OPERATIONS**

DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

PLUMBING WORK SHALL BE AS INDICATED ON THE PLANS AND AS HEREIN SPECIFIED. WORK SHALL CONSIST OF PROVIDING A COMPLETE AND OPERATIONAL SYSTEM INCLUDING ALL FIXTURES, PIPING, VALVES AND OTHER REQUIRED CODES, EQUIPMENT, ETC. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS. WHERE THERE ARE CONFLICTS BETWEEN THE PLANS, SPECIFICATIONS, AND CODE REQUIREMENTS, THE CONTRACTOR SHALL MAKE ANY ADJUSTMENTS AS REQUIRED FOR COMPLIANCE WITH ALL CODES AND FOR APPROVAL OF THE SYSTEM. THE SYSTEM SHALL EXTEND TO AND CONNECT TO THE EXISTING MUNICIPAL OR PROJECT WATER AND WASTE SYSTEM AS INDICATED ON THE DRAWINGS.

WHENEVER A MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT IS IDENTIFIED ON THE DRAWINGS BY REFERENCE TO MANUFACTURER'S OR VENDOR'S NAMES, TRADE NAMES, CATALOG NUMBERS, OR THE LIKE, IT IS SO IDENTIFIED FOR THE PURPOSE OF ESTABLISHING A STANDARD, AND ANY MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT OF OTHER MANUFACTURERS OR VENDORS WHICH WILL PERFORM ADEQUATELY THE DUTIES IMPOSED BY THE GENERAL DESIGN WILL BE CONSIDERED EQUALLY ACCEPTABLE PROVIDED THE MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT SO PROPOSED IS, IN THE OPINION OF THE ARCHITECT/ENGINEER, OF EQUAL SUBSTANCE, APPEARANCE, AND FUNCTION. THE MATERIAL, ARTICLE OR PIECE OF EQUIPMENT SHALL NOT BE PURCHASED OR INSTALLED BY THE CONTRACTOR WITHOUT THE ARCHITECT'S/ENGINEER'S WRITTEN APPROVAL.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, SHOP DRAWINGS AND/OR MANUFACTURER'S SUBSTANTIAL DATA WITH CAPACITY AND CHARACTERISTICS OF ALL MATERIAL AND EQUIPMENT FOR APPROVAL PRIOR TO PURCHASE AND/OR INSTALLATION OF THE WORK. A MINIMUM OF 4 COPIES SHALL BE SUBMITTED. SUBMITTALS SHALL BE IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BEGINNING WORK FOR THE PURPOSE OF OBSERVING EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF THE WORK. THE CONTRACTOR SHALL MAKE ALLOWANCES FOR PROVIDING ALL MATERIAL, EQUIPMENT, AND LABOR AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, AND ALL CODE REQUIREMENTS.

ALL WATER PIPING SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS. JOINTS SHALL BE SOLDERED WITH LEAD FREE SOLDER. ALL EXPOSED PIPING SHALL BE CHROME PLATED. WASTE AND VENT SHALL BE SERVICE WEIGHT CAST IRON WITH EITHER HD-HUB OR COMPOSITE SEAM JOINTS. NO-HUB JOINTS ARE NOT PERMITTED BELOW GRADE. ALL EQUIPMENT REQUIRING PLUMBING CONNECTIONS SHALL BE CONNECTED BY THE PLUMBER REGARDLESS OF WHO PROVIDES THE EQUIPMENT OR FIXTURE.

ALL HOT AND COLD WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH MINIMUM 1" THICK 3 PLY FIBERGLASS PIPE COVERING WITH VAPOR BARRIER JACKET OR AS REQUIRED BY CODE. ALL JOINTS SHALL BE TAPPED AND SEALED WITH AN APPROVED TYPE TAPPING AND END STOP AS RECOMMENDED BY THE INSULATION SUPPLIER AND/OR MANUFACTURER.

VALVE INSTALLATIONS SHALL BE PROVIDED FOR ALL HOSE CONNECTIONS AND OTHER POINTS WHERE CROSS CONTAMINATION CAN OCCUR. REDUCED PRESSURE BACKFLOW PREVENTERS SHALL BE PROVIDED WHERE REQUIRED BY CODE. ALL FIXTURES, HOSE BIBBS, FLOOR DRAINS, P.V.C. SHALL BE PROVIDED AS INDICATED AND SCHEDULED ON THE PLANS. THE SYSTEM SHALL BE TESTED, CLEANED, AND DISINFECTED IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS.

GAS PIPING AND FITTINGS SHALL BE BLACK STEEL, WITH MALLEABLE IRON FITTINGS UP THROUGH 2" I.P.S. AND STEEL WELDING FITTINGS 2" - 1/2" I.P.S. AND ABOVE. DIELECTRIC COUPLINGS OR UNIONS SHALL BE UTILIZED WHEN PIPING OF DISSIMILAR METAL IS CONNECTED.

GAS PIPING SYSTEM SHALL BE INSTALLED TO THE REQUIREMENTS OF THE AGA PAMPHLET "INSTALLATION OF GAS APPLIANCES AND GAS PIPING" AND NFPA STANDARD NO. 54. THE CONTRACTOR SHALL MARK ALL ARRANGEMENTS AND PAY ALL FEES WITH THE LOCAL GAS COMPANY FOR THE INSTALLATION OF THE GAS METER, GAS SERVICE, AND ITS ACCESSORIES.

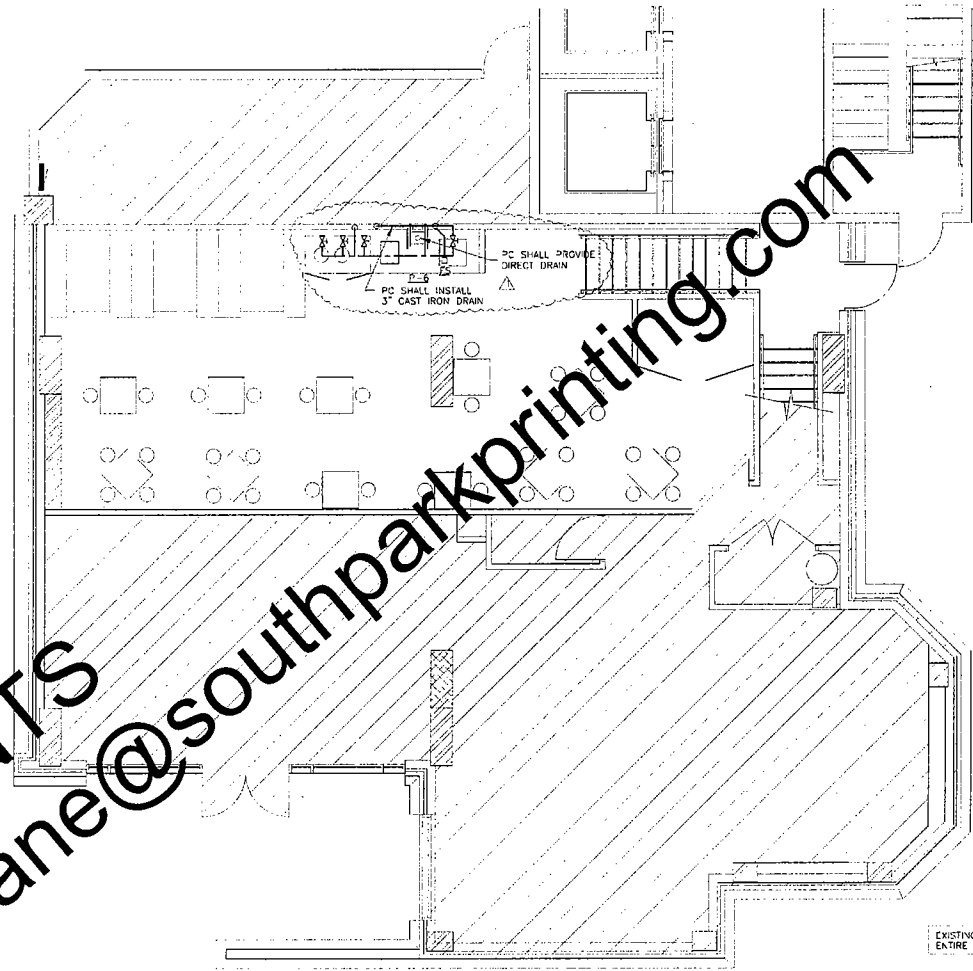
GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA NO. 54. ANY OTHER TESTS AS REQUIRED BY THE LOCAL BUILDING INSPECTION DEPARTMENT OR GAS COMPANY SHALL ALSO BE PERFORMED. PAINT GAS PIPING WITH RUST RESISTANT PAINT.

THE ENTIRE PLUMBING SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED FOR 1 YEAR FROM ACCEPTANCE BY THE OWNER. ALL GUARANTEES SHALL BE WRITTEN, DATED, AND FORWARDED TO THE OWNER. ALL DEFECTIVE EQUIPMENT AND/OR MATERIAL SHALL BE REPAIRED AT NO CHARGE TO THE OWNER.

AT THE CONTRACTOR'S OPTION, PVC MAY BE UTILIZED ABOVE GRADE IN CONCEALED LOCATIONS FOR DWV SYSTEM, SUBJECT TO CODE COMPLIANCE.

**SYMBOL LEGEND**

- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATION
- WASTE
- VENT
- SANITARY SEWER
- BALL COCK VALVE
- GLOBE VALVE
- CHECK VALVE
- DIAPHRAGM VALVE
- BALANCING COCK
- STRAINER
- UNION
- PRESSURE REDUCING VALVE
- VALVE IN VIEW
- COLD WATER
- CLEANOUT
- FLOOR DRAIN
- HUB + HUB DRAIN
- HOSE BIBB
- HOT WATER
- HUB DRAIN
- VENT
- VENT THRU ROOF



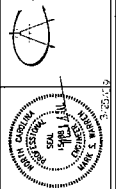
EXISTING BACK FLOW PREVENTER  
ENTIRE BUILDING SUPPLY

**PLUMBING PLAN**  
1/4"=1'

FOR PRINTS  
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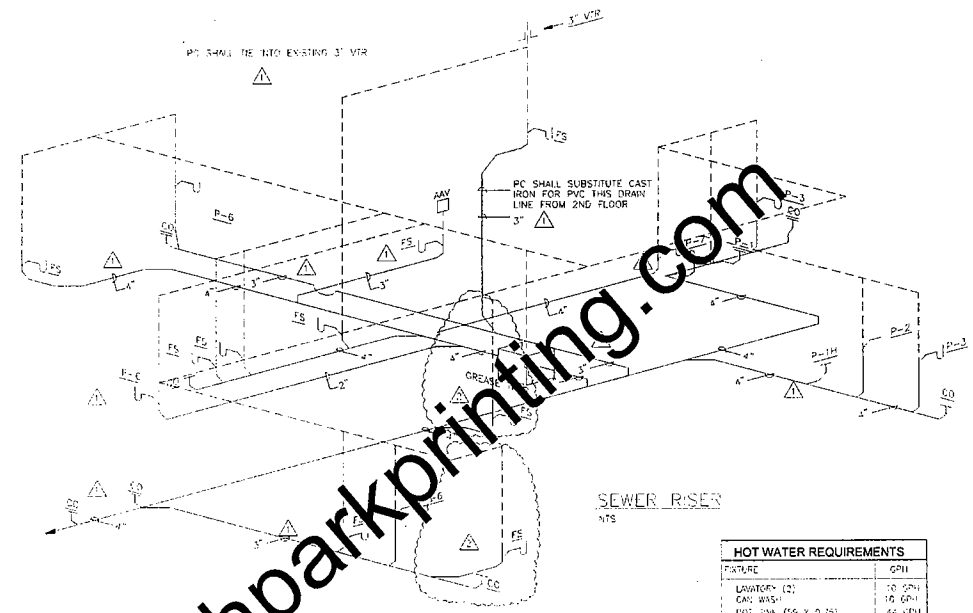


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REVISION  
4-2-2015

SHEET  
P 2

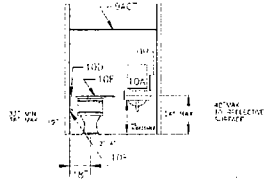
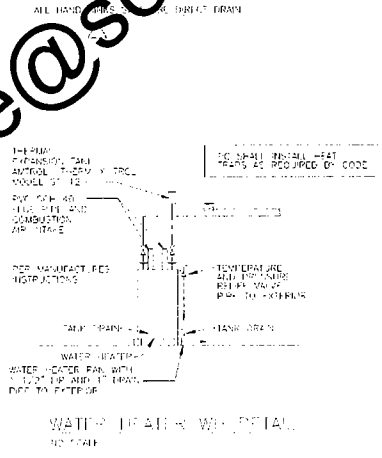
NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
2	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
3	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
4	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
5	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
6	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
7	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
8	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
9	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
10	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
11	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
12	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
13	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
14	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
15	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
16	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
17	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
18	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
19	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR
20	WATER HEATER	1	EA	TYPE AND MODEL TO BE DETERMINED BY CONTRACTOR



FIXTURE	GPM
LAVATORY (2)	10 GPM
BAR WASH	10 GPM
FLOOR SINK (16 X 8 1/2)	40 GPM
BAR DUMP SINK	5 GPM
PREP SINK (2)	10 GPM
HAND SINK (3)	15 GPM
DISH WASHER	60 GPM
PRE RINSE	45 GPM
<b>TOTAL</b>	<b>208 GPM</b>

1 BAR WASH	5.0 GPM
1 BAR SINK	5.0 GPM
1 FLOOR SINK-PREP SINK/ICE MACH	15.0 GPM
1 FLOOR SINK-PREP SINK	15.0 GPM
DISHWASHER/PRE RINSE	5.0 GPM
<b>TOTAL</b>	<b>50.0 GPM</b>

GREASE INTERCEPTOR 50 GPM FLOW RATE  
100 LB DRY WEIGHT (MINIMUM 75 LB MIN)



TYP BATHROOM DETAIL  
NO SCALE

BATHROOMS SHALL COMPLY WITH NFPA 405.3.1

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SCALE

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DATE	REVISION
MARCH 25, 2019	

PROJECT: TERRACE CAFE  
 4625 PIEDMONT ROW  
 CHARLOTTE NC 28210

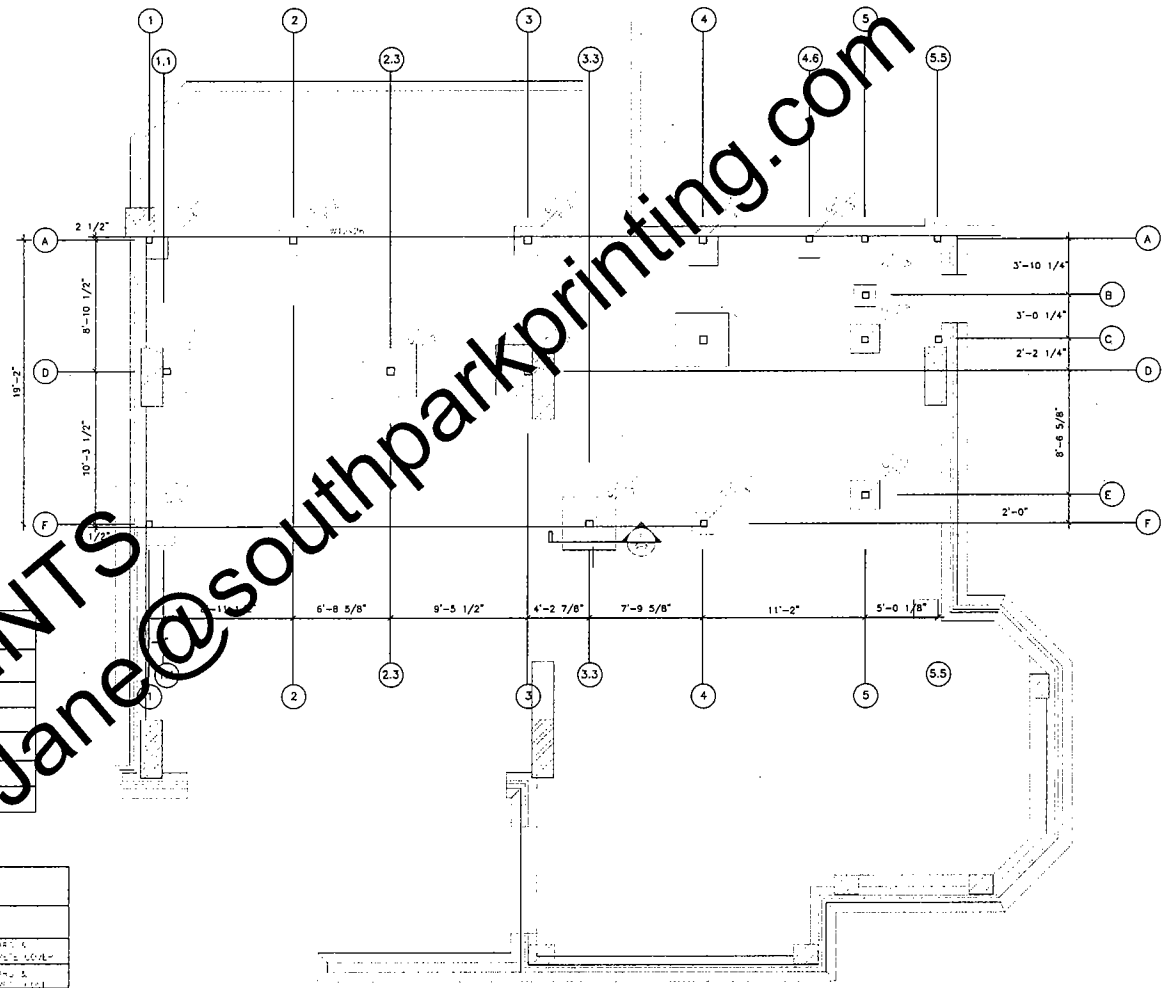
SHEET TITLE: FOUNDATION PLAN

TABLE 1: REINFORCEMENT SCHEDULE

MEM.	COLUMN/SLAB	WALL/BEAM	REINFORCEMENT			
			TOP	BOT	EXT.	INT.
1	12" x 12" C	12" x 12" W	4#4	4#4	4#4	4#4
2	12" x 12" C	12" x 12" W	4#4	4#4	4#4	4#4
3	12" x 12" C	12" x 12" W	4#4	4#4	4#4	4#4
4	12" x 12" C	12" x 12" W	4#4	4#4	4#4	4#4
5	12" x 12" C	12" x 12" W	4#4	4#4	4#4	4#4

TABLE 2: REINFORCEMENT SCHEDULE

MEM.	TYPE	SECTION	REINFORCEMENT	NOTES
1	SLAB	12" x 12"	4#4 TOP, 4#4 BOT	EVENLY SPACE REIN. BARS & MAINTAIN 3" MIN. CONCRETE COVER
2	SLAB	12" x 12"	4#4 TOP, 4#4 BOT	EVENLY SPACE REIN. BARS & MAINTAIN 3" MIN. CONCRETE COVER
3	SLAB	12" x 12"	4#4 TOP, 4#4 BOT	EVENLY SPACE REIN. BARS & MAINTAIN 3" MIN. CONCRETE COVER
4	SLAB	12" x 12"	4#4 TOP, 4#4 BOT	EVENLY SPACE REIN. BARS & MAINTAIN 3" MIN. CONCRETE COVER
5	SLAB	12" x 12"	4#4 TOP, 4#4 BOT	EVENLY SPACE REIN. BARS & MAINTAIN 3" MIN. CONCRETE COVER



FOUNDATION PLAN  
 1/4" = 1'-0"

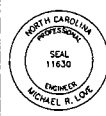
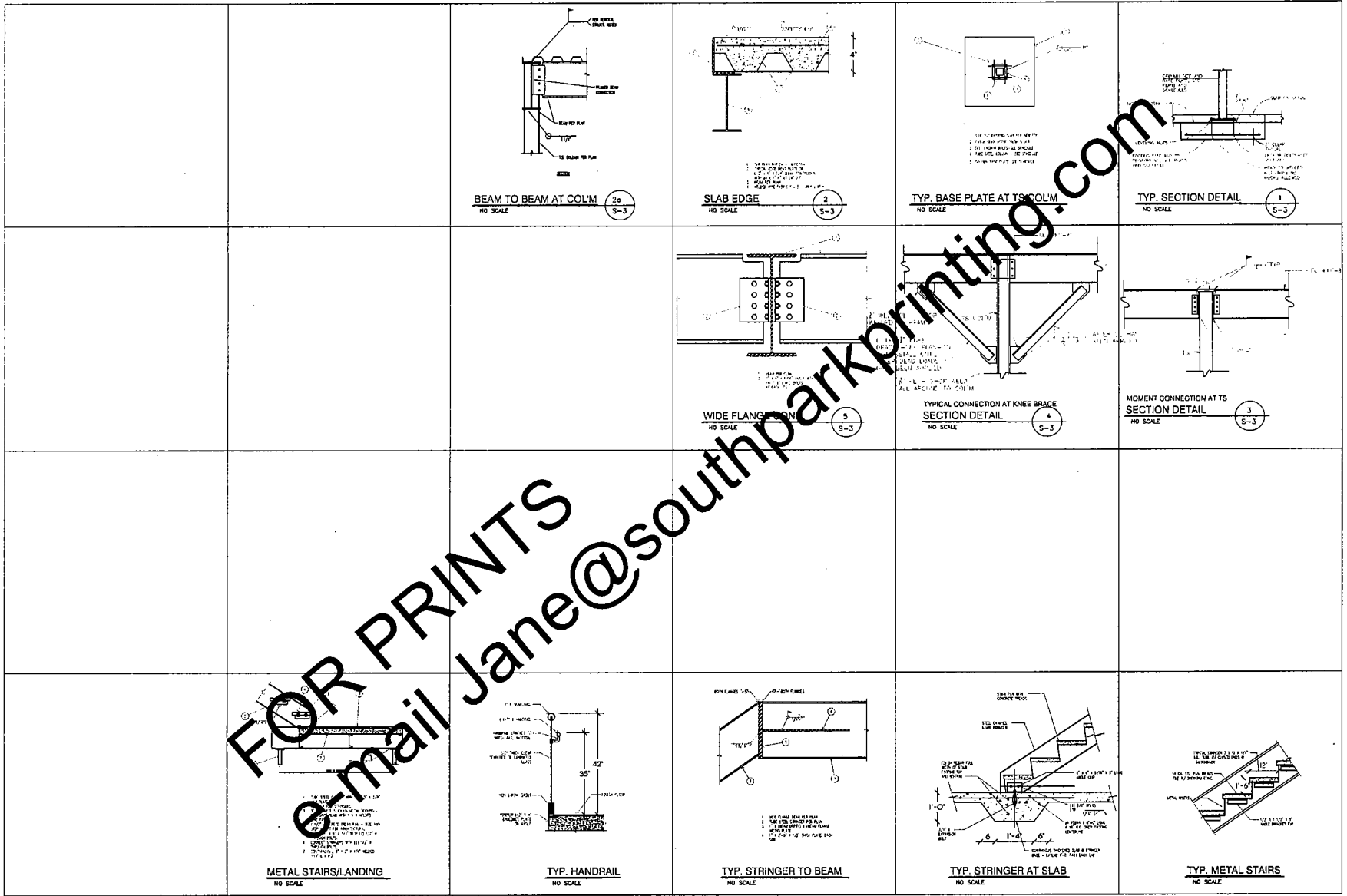
INDICATES EXTERIOR CORNER

SEE SHEET S-1 AND S-2 FOR ADDITIONAL STRUCTURAL NOTES

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SEAL

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PROJECT	TERRACE CAFE
DATE	March 2009
REVISION	
ISSUE DATE	March 2009
BY	
CHECKED BY	
DESIGNED BY	
PROJECT NO.	

**TERRACE CAFE**  
**4625 PIEDMONT ROW**  
**CHARLOTTE NC 28210**

PROJECT  
 SHEET TITLE: **DETAILS**