YOUR PIE SAVANNAH

102 WEST BRYAN STREET

SAVANNAH, GEORGIA

100% PERMIT SET - JULY 30, 2010

102 Bryan Street A. Property Address: Savannah, Georgia 31401 2-0004-13-009 B. Property PIN C. Total Gross Project Area: D. Building Height in Stories: 6 Story (Project area includes 1 Floor) II. Code Requirements: A. Applicable Codes (with Georgia Amendments): 2006 International Building Code (IBC with 2000 Georgia Amendments) 2000 Life Safety Code (LSC) - NFPA 101 2006 International Mechanical Code 2006 International Plumbing Code 2006 National Electrical Code

2006 International Energy Conservation Code 2006 International Fire Code Accessibility Code

B. Occupancy Classification:

I. GENERAL

New Group A2 - Assembly (IBC 303.1) D. Construction Type:

Type II B - (IBC Section 602) Sprinkled, Unprotected - (EXISTING BUILDING TO REMAIN SPRINKLED) -All materials shall comply with IBC Section 603

E. Height and Area Limitations (IBC Table 503) Group A-2 - Maximum # of Stories: 2 Story

Actual # of Stories: 1 (Complies) Allowable Area: 9,500SF per floor Actual Area = 1,856SF Gross Area (Complies)

F Construction protection 1. Fire Protection of Building Elements (IBC Table 601)

Structural Frame: 0 hours Required, 0 hours Provided Bearing Walls - Exterior: 0 hours Required; 0 hours Provided Bearing Walls - Interior: 0 hours Required; 0 hours Provided 0 hours Required; 0 hours Provided Non-Bearing Walls: 0 hours Required; 0 hours Provided Floor/Ceiling construction: Roof/Ceiling construction: 0 hours Required; 0 hours Provided

G. Occupancy Load (LSC 7.3.1.2) - First Floor

Assembly (less concentrated) 1,056SF/15 70.4 Persons 685SF/100 6.9 Persons 115SF/100 1.1 Persons Bathrooms Total People: 1,856 SF 78.4 Persons Max.

H. Means of Egress 1. Egress Capacity for Level Components and Ramps (LSC Table 7.3.3.1): 78.4 people x.2"/person = 15.7" req; 170" min. provided

Required = 75'-0"; Provided = 33'-6"

in all buildings requiring more then one exit.

2. Egress Capacity for Stairs (LSC 7.2.2.1):

3. Doors (LSC 7.2.1.2.3): Required = 32"; Provided = 34" Min provided at all exits

4. Corridors (LSC 7.3.4.1): Required = 36"; Provided = 44" 5. Number of Exits per Floor (LSC 12.2.4): Required = 2, Provided = 3 6. Travel Distance to Exits (LSC 12.2.6): Required = 150'-0"; Provided; 48'-0"

Main Entrance (LSC 13.2.3.3): 78.4 People x .2 = 15.7" / 2 = 7.85" req; 68" Provided

7. Common Path of Travel (LSC 12.2.5.1): (From non-assembly use)

J. Marking Means of Egress: Means of egress shall have signs in accordance with (LSC 7.10.1.2)

K. Interior Finishes (LSC 12.3.3)

1. Wall and Ceiling Finish: Required = Class A, B, or C; Provided Class A

Floor Finish. No Requirement

L. Detection, Alarm and Communication: Fire alarm is not required (LSC 12.3.4.1)

Emergency lighting shall be provided in accordance with (LSC 7.9) M. Emergency Lighting Fire extinguishers will be provided in accordance with (LSC 9.7.4.1)

N. Extinguishment Requirements:

O. Minimum Number of Required Plumbing Fixtures (IBC Section 29.01): 1. Water Closets - 1 per 75 men and women = 2 required, 2 provided

2. Lavatories - 1 per 200 men and women = 1 required, 2 provided

3. Service Sink - 1 required, 1 provided

All cooking equipment shall be in accordance with (NFPA 96). All ventilating P. Commercial Kitchen Equipment: or heat producing equipment shall be in accordance with NFPA 91.

SHEET LABEL COVER, CODE ANALYSIS AND GENERAL INFORMATION G000 G001 ADA DIAGRAMS AND NOTES LS100 LIFE SAFETY PLAN A001 WALL TYPES AND SCHEDULES A100 FLOOR PLAN A101 REFLECTED CEILING PLAN A400 ENLARGED KITCHEN PLAN A401 FOOD SERVICE EQUIPMENT SCHEDULE A402 ENLARGED BATHROOM PLAN & INTERIOR ELEVATIONS A500 INTERIOR ELEVATIONS M001 **HVAC SCHEDULES** M002 **HVAC SPECIFICATIONS** HVAC FLOOR PLAN GREASE HOOD DETAIL DRAWINGS M202 GREASE HOOD DETAIL DRAWINGS M203 GREASE HOOD DETAIL DRAWINGS M204 GREASE HOOD DETAIL DRAWINGS M205 GREASE HOOD DETAIL DRAWINGS GREASE HOOD DETAIL DRAWINGS E001 LEGEND, FIXTURE SCHEDULE AND GENERAL NOTES LIGHTING PLAN POWER PLAN, ONE LINE AND EQUIPMENT SCHEDULE P001 PLUMBING LEGEND AND SCHEDULES P101 PLUMBING SANITARY PLAN P102 PLUMBING WATER AND GAS PLAN P103 PLUMBING PLAN



LOCATION MAP

OWNER:

ARCHITECT

ENGINEER:

PO BOX 13826 SAVANNAH, GEORGIA 31416 (P) 912.308.7777 (E) PCHILDERS@COMCAST.NET

MR. PAUL CHILDERS

SAVANNAH PIZZA PIE CO.

LYNCH ASSOCIATES ARCHITECTS, PC

ANDREW LYNCH, AIA, LEED AP 102 EAST LIBERTY STREET, NO.108 SAVANNAH, GEORGIA 31401 (P) 912.349.5116 (F) 912.349.5119 (E) ALYNCH@LYNCHARCH.COM

ROSSER INTERNATIONAL PAUL MAMALAKIS 128 WEST BAY STREET SAVANNAH, GEORGIA 31401

(P) 912.232.1146

PROJECT TEAM

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE - 2006 INTERNATIONAL BUILDING CODE. 2000 LIFE SAFET CODE, CITY OF SAVANNAH, CHATHAM COUNTY HEALTH DEPARTMENT, CITY OF SAVANNAH FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS AND THE BEST TRADE PRACTICES.

2. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE DEPARTMENT OF BUILDINGS, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY THE CITY OF SAVANNAH IF REQUIRED.

3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ARCHITECT.

4. ALL DIMENSIONS TO FACE OF STUD/STRUCTURE FOR INTERIOR AND EXTERIOR WALLS/PARTITIONS UNLESS OTHERWISE NOTED.

5. THE CONTRACTOR IS NOT TO SCALE DRAWINGS OR DETAILS. ONLY WRITTEN DIMENSIONS ARE TO BE

6. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.

7. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF LOCAL AUTHORITIES.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.

9. EACH CONTRACTOR SHALL LAY OUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER CONTRACTORS (PLUMBING, ELECTRICAL, MECHANICAL, FIRE PROTECTION).

10. PLUMBING AND ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND REQUIRED SIGN-OFFS.

11. EACH CONTRACTOR SHALL DO CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE OB IN EACH PRIME CONTRACT.

12. ALL MATERIALS, ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF SAVANNAH AND THE 2006 INTERNATIONAL BUILDING CODE.

13. EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER CONTRACTORS AND SUPPLIERS.

14. DUCTS, PIPES AND CONDUITS PASSING THROUGH RATED CONSTRUCTION SHALL HAVE SPACES NOT EXCEEDING 1/2 INCH PACKED WITH MINERAL WOOL AND CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS. AGGREGATE AREA OF SUCH OPENINGS SHALL NOT EXCEED 25 SQUARE INCHES IN ANY 100 SQ. FT. OF WALL OR FLOOR AREA UNLESS PROTECTED BY RATED SELF-CLOSING DEVICES.

14. CONCEALED SPACES WITHIN PARTITIONS, WALLS, FLOORS, ROOFS, STAIRS, FURRING, PIPE SPACES, COLUMN ENCLOSURES, ETC., SHALL BE FIRESTOPPED (EXCEPT WHERE CONCEALED SPACE IS SPRINKLERED) NON-COMBUSTABLE MATERIAL THAT CAN BE SHAPED, FITTED AND PERMANENTLY SECURED IN POSITION. FIRE SEAL SHALL MATCH RATING OF WALL.

15. CONDUITS IN FIRE-RELATED PARTITIONS SHALL NOT EXCEED 3/4 INCH DIAMETER. OUTLETS IN SUCH PARTITIONS SHALL BE BACKED UP WITH APPROVED MATERIALS MEETING U.L. REQUIREMENTS.

16. PENETRATION OF OPENINGS IN WALLS, PARTITIONS OR FLOORS, FOR PIPE SLEEVES, FIRE EXTINGUISHERS, TOILET ACCESSORIES, ELECTRIC DEVICES, ETC., SHALL BE PLACED, SEALED, LINED OR OTHERWISE ISOLATED TO MAINTAIN THE REQUIRED S.T.C. RATING.

17. IT IS UNDERSTOOD THAT THE EXISTING BUILDING MAY CONTAIN ASBESTOS OR HAZARDOUS OR OTHER TOXIC MATERIAL. THE ARCHITECTS SERVICES DO NOT INCLUDE ANY SERVICES RELATED TO ASBESTOS OR HAZARDOUS OR OTHER TOXIC MATERIAL. IN THE EVENT ANY PARTY ENCOUNTERS SUSPECTED ASBESTOS OR HAZARDOUS OR OTHER TOXIC MATERIAL AT THE JOB SITE, OR SHOULD IT BECOME KNOWN IN ANY WAY THAT SUCH MATERIALS MAY BE PRESENT AT THE JOB SITE OR ANY ADJACENT AREAS THAT MAY AFFECT THE PERFORMANCE OF THE WORK, THE OWNER AND THE ARCHITECT MUST BE NOTIFIED IMMEDIATELY IN WRITING. THE ARCHITECT MAY, AT HIS OPTION AND WITHOUT LIABILITY FOR CONSEQUENTIAL OR ANY OTHER DAMAGES, SUSPEND SERVICES UNTIL THE OWNER RETAINS APPROPRIATE SPECIALIST CONSULTANTS OR CONTRACTORS TO IDENTIFY, ABATE AND/OR REMOVE ASBESTOS, HAZARDOUS OR TOXIC MATERIALS AND WARRANT THE JOB SITE IS IN FULL COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS.

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Your Pie

Savannah

Revisions

Description

COVER SHEET CODE DATA & GENERAL NOTES

AS NOTED July 30, 2010 Project No. 0927.00

Drawing No.

NTS

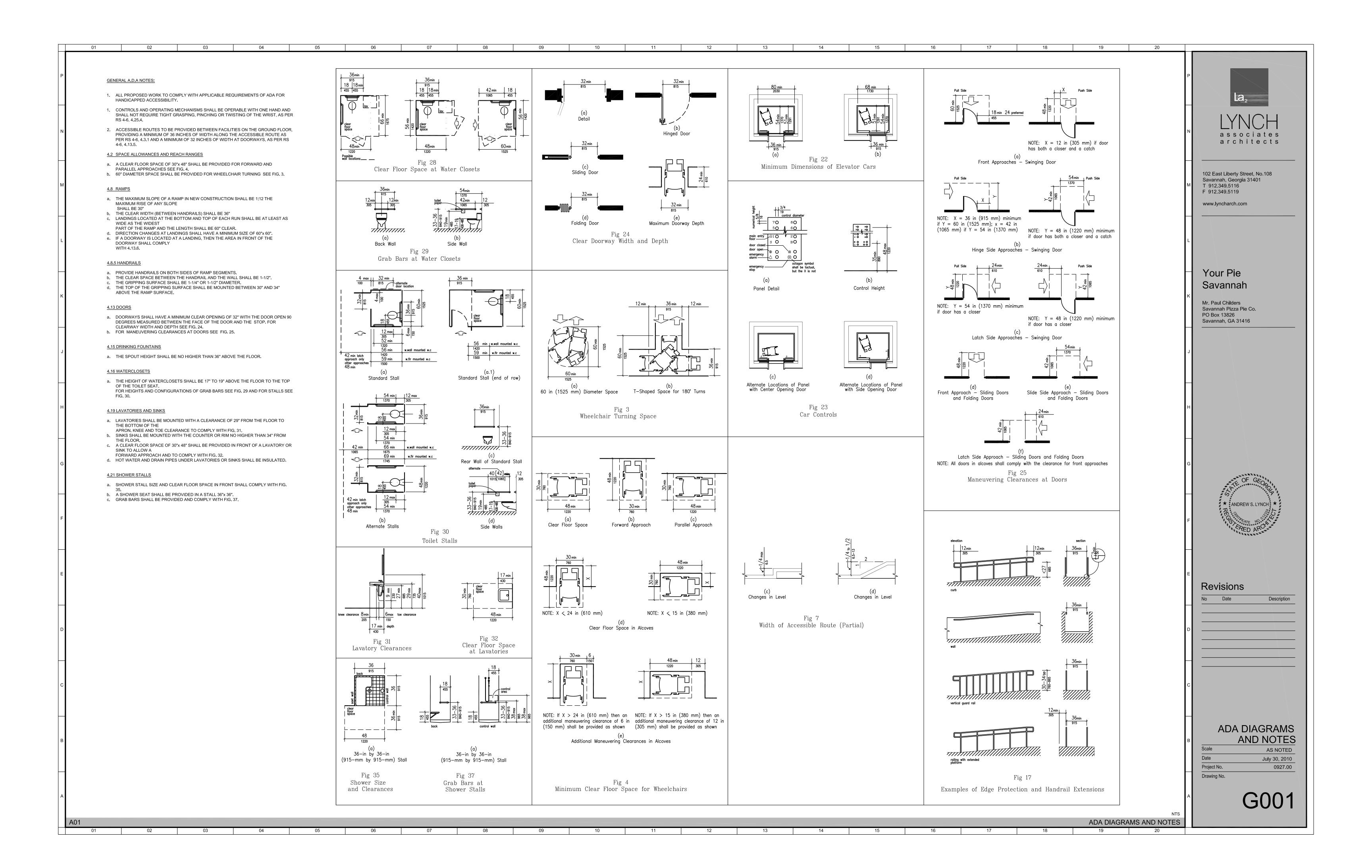
GENERAL NOTES

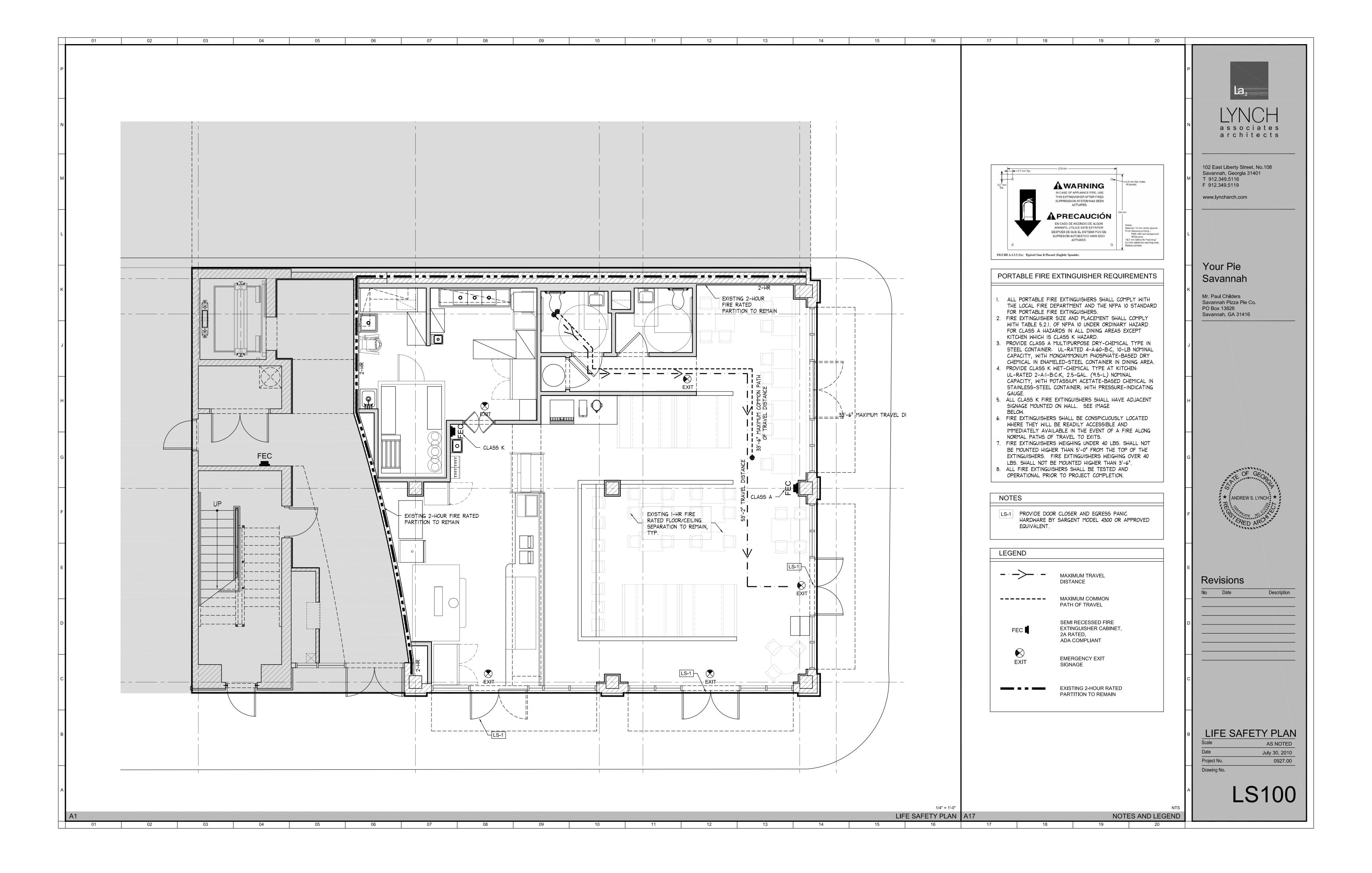
THE PROJECT INCLUDES INTERIOR RENOVATIONS TO AN EXISTING SHELL SPACE FOR A RESTAURANT

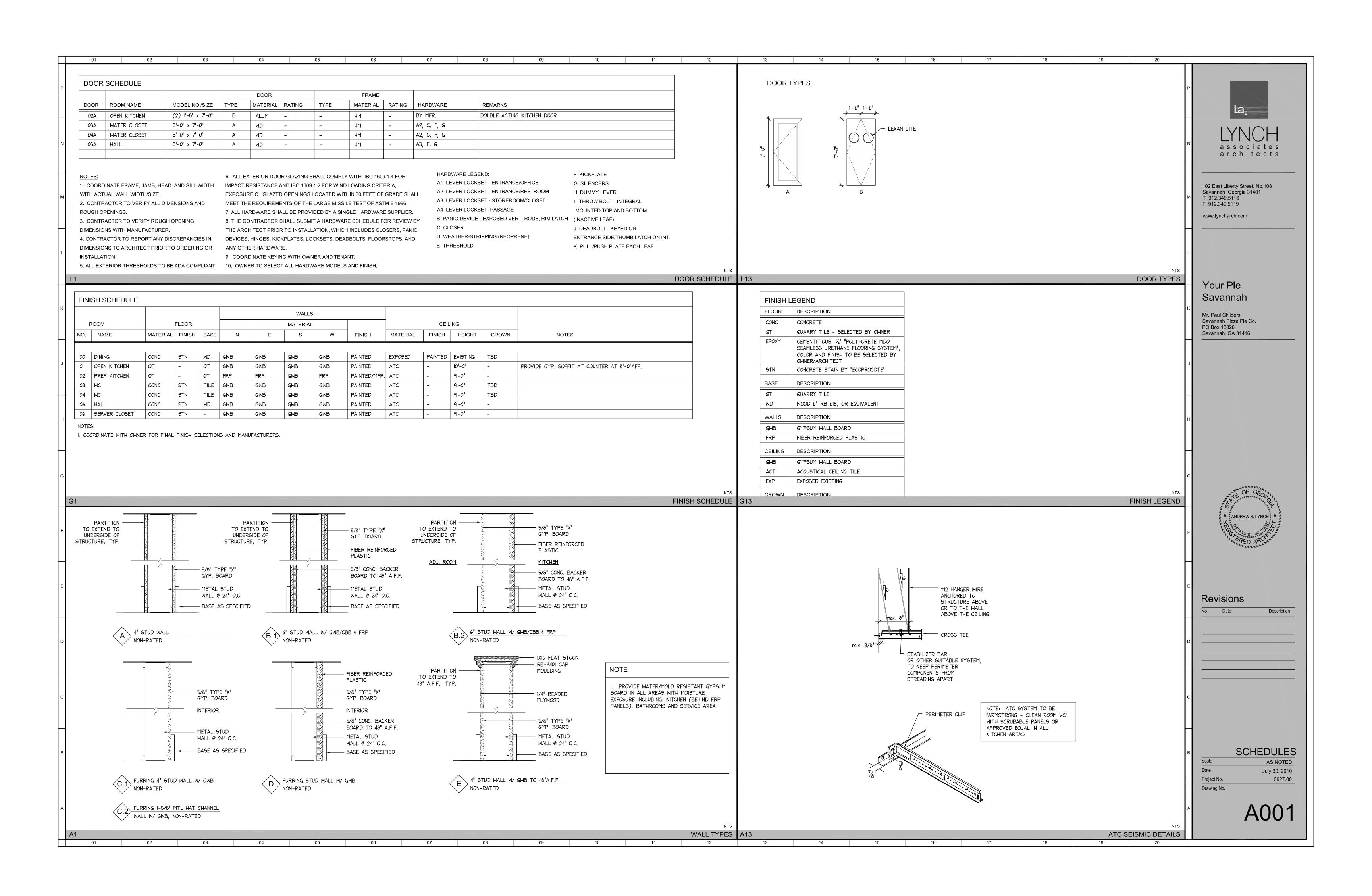
ASSEMBLY USE. ALL EXISTING FIRE RATED PARTITIONS ARE TO REMAIN.

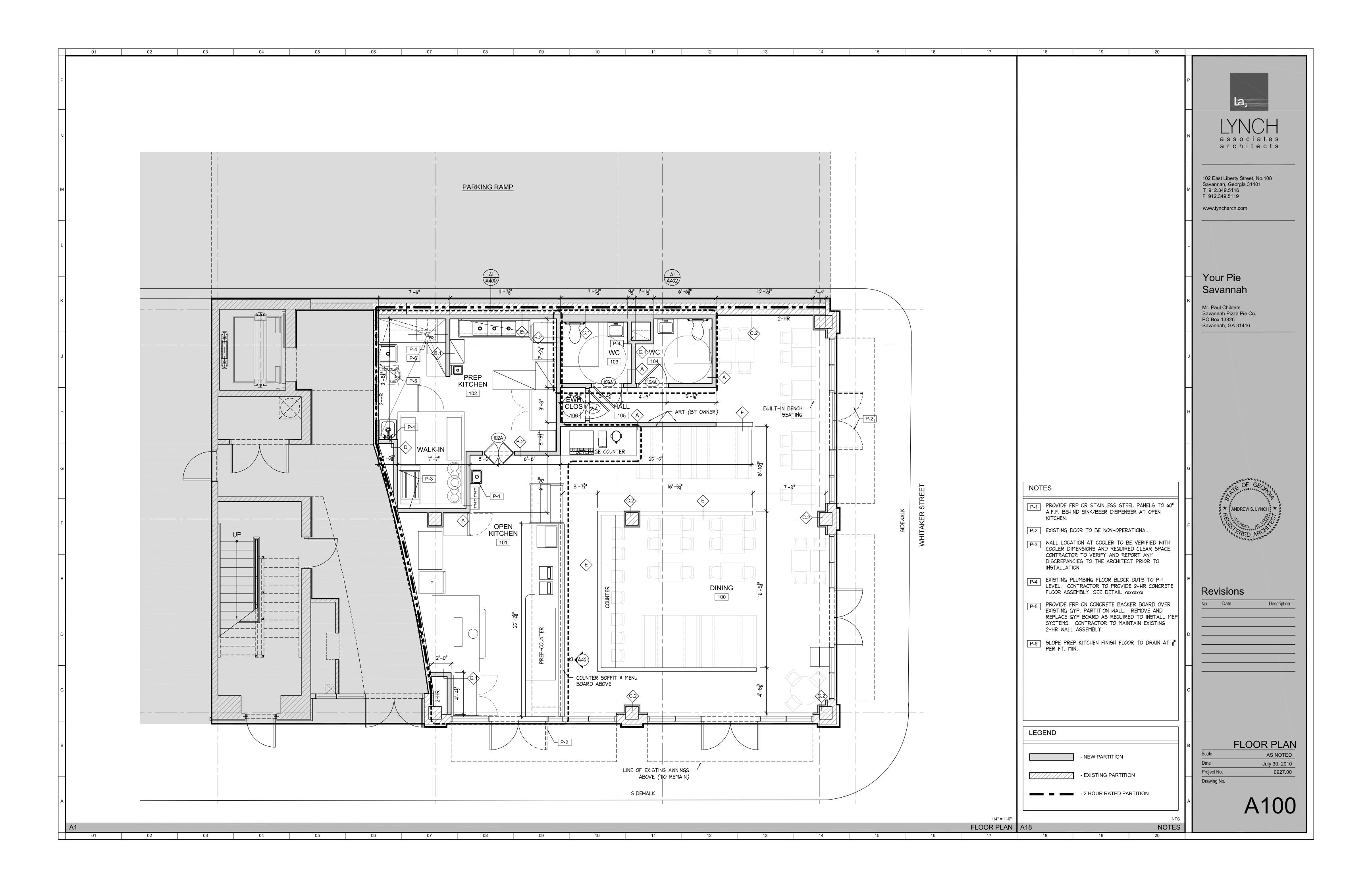
PROJECT DESCRIPTION | A13

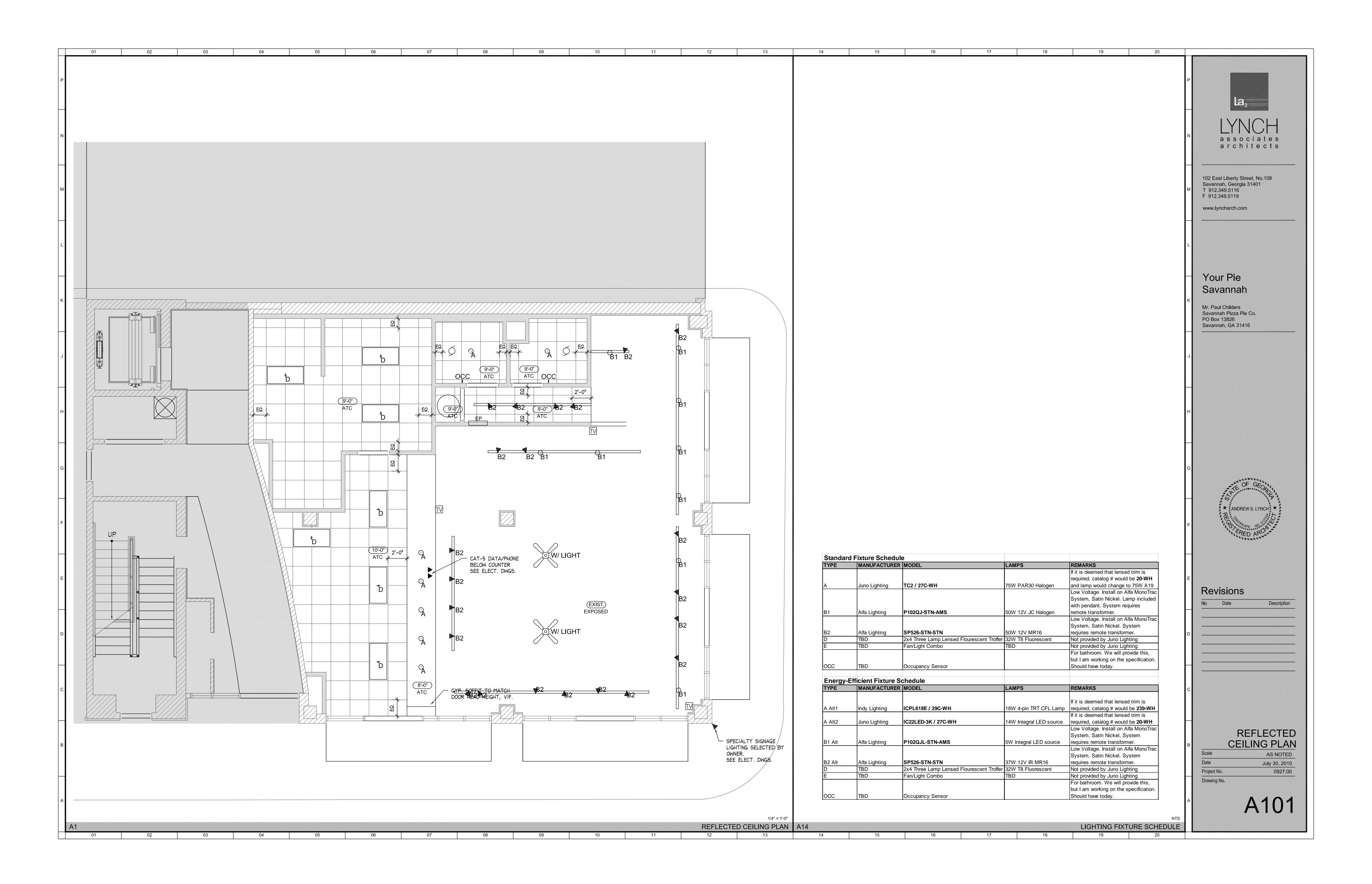
CODE DATA A07

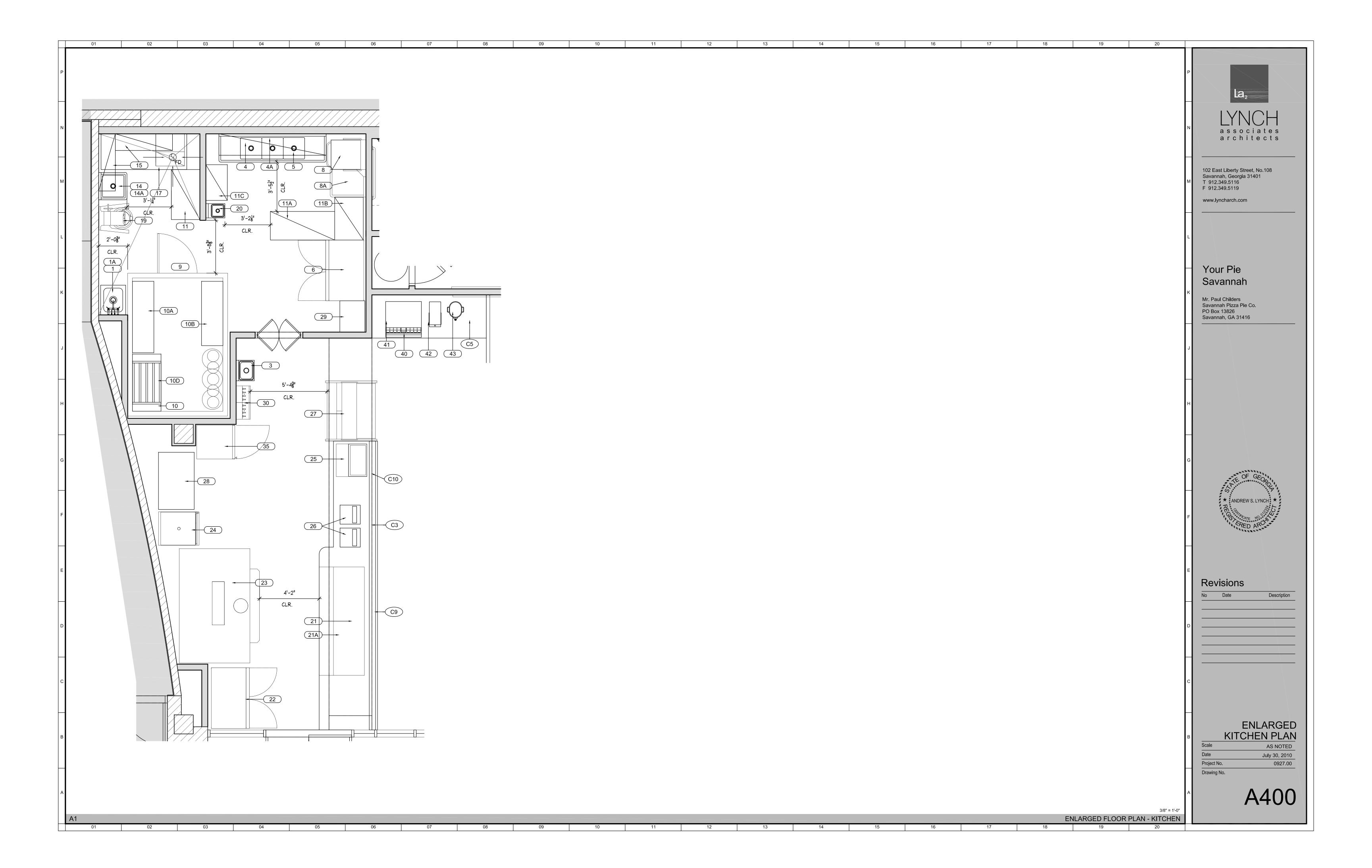








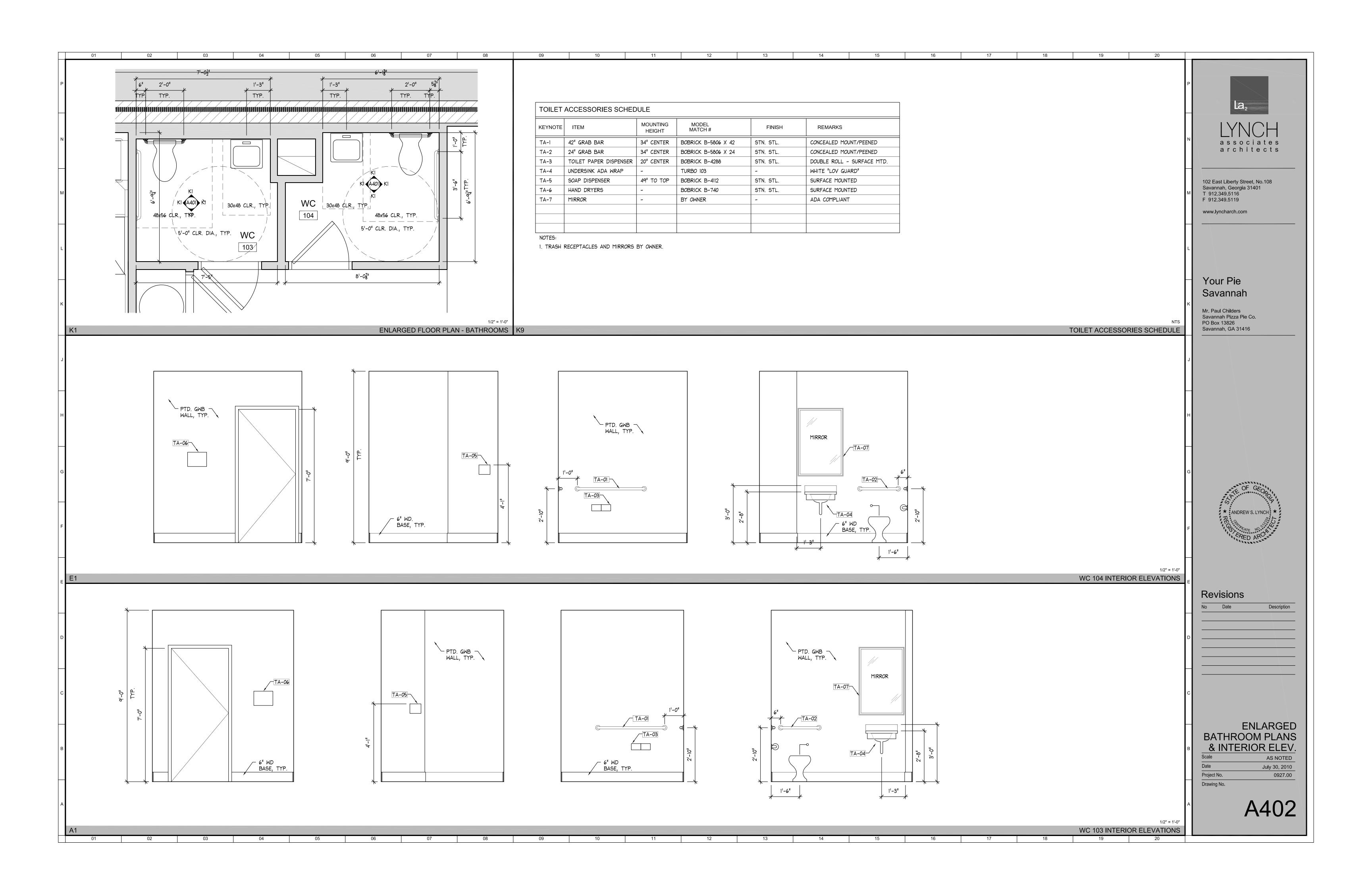




) EQ	UIPM	IENT T							1		PLUMBING		ELECTRICAL				REMARKS
.	Qty	ITEM	MANUFACTURER	MODEL NUMBER	FURN. BY	INST. BY	WA			ASTE T	GA		LOAD	Ι .	T .	<u> </u>	
	,						HW	CW	DIR.	INDIR.	SIZE	BTU/HR	VOLTS	PHASE	AMPS	HP/WATT	
	1	MOP SINK	ADVANCE TABCO	9-OP-20	KES	KES	1/2"	1/2"	4"	-			-	-	-	-	EXISTING PLUMBING, WATER AND WASTE TO REMAIN
	1	SERVICE SINK FAUCET	T#S BRASS	B-0655-BSTP	KES	KES	-	-	-	-			-	-	-	-	-
	-	SPARE #	-	-	KES	KES	-	-	-	-			-	-	-	-	-
	1	HAND SINK	CCI FAB	HS-15	KES	KES	1/2"	1/2"	-	1-1/2"			-	-	-	-	-
	1	3 COMPARTMENT SINK	CCI FAB	SE-3-1818-18RL	KES	KES	1/2"	1/2"	-	1-1/2"			-	-	-	-	-
	1	PRE-RINSE UNIT WITH FAUCET	T¢S	B-0133/ADF12-B	KES	KES	-	-	-	-			-	-	-	-	-
	1	POT RACK	CCI FAB	CUSTOM	KES	KES	1	-	-	-	1		-	-	-	1	-
	1	REACH IN FREEZER	DELFIELD	6151XL-S	KES	KES	-	-	-	-			120-208	1	20	1/2,3/4 HP	NEMA 14-20P PLUG
	-	SPARE #	-	-	-	-	_	_	_	-			-	-	-	-	-
	1	DISH WASHER	BY OTHERS	BY OTHERS	OTHERS	OTHERS	-	-	-	1-1/2"			-	-	-	-	CHECK ELECTRICAL AND PLUMBING REQUIREMENTS WITH VENDOR
	1	CLEAN DISH TABLE	BY OTHERS	BY OTHERS	OTHERS	OTHERS	-	-	-	-			-	-	-	-	-
	1	WALK-IN COOLER	KOLPAK	CUSTOM	KES	KES	-	-	-	-			208	1	17.1	3/4 HP	FLOORLESS - G.C. TO PROVIDE QUARY TILE FLOOR
	2	24X48 EPOXY COATED WIRE SHELVING FOR WALK-IN	ADVANCE TABCO	EG-2448X	KES	KES	-	-	-	-			-	-	-	-	-
	4	18X60 EPOXY COATED WIRE SHELVING FOR WALK-IN	ADVANCE TABCO	EG-1860X	KES	KES	-	-	_	-	- -		-	-	-	-	-
	4	18X54 EPOXY COATED WIRE SHELVING FOR WALK-IN	ADVANCE TABCO	EG-1854X	KES	KES	-	-	-	-	- -		-	-	-	-	-
	12	74" EPOXY COATED POSTS FOR WALK-IN	ADVANCE TABCO	EGP-74X	KES	KES	-	-	-	-	- -		-	-	-	-	-
	1	24X36 DUNNAGE RACK FOR WALK-IN	KELMAX	DRC36248	KES	KES	-	-	-	-	- -		-	-	-	-	-
	4	24X42 EPOXY COATED WIRE SHELVING FOR DRY STORAGE	ADVANCE TABCO	EG-2442X	KES	KES	-	-	-	-	- -		-	-	-	-	-
	4	24x54 EPOXY COATED WIRE SHELVING FOR DRY STORAGE	ADVANCE TABCO	EG-2454X	KES	KES	-	<u> </u>	-	-	- -		-	-	-	-	-
	4	24x36 EPOXY COATED WIRE SHELVING FOR DRY STORAGE	ADVANCE TABCO	EG-2436X	KES	KES	-	-	-	-	- -		-	-	-	-	-
_	4	18x30 EPOXY COATED WIRE SHELVING FOR DRY STORAGE	ADVANCE TABCO	EG-1830X	KES	KES	-	-	-	-			-	-	-	-	
	16	86" EPOXY COATED POSTS FOR DRY STORAGE	ADVANCE TABCO	EGPC-86X	KES	KES	-	-	-	-			-	-	-	-	-
_		SPARE #	-	-	-	-	-	-	-	-			-	-	-	-	-
	<u>-</u>	SPARE #	-	-	-	-	-		-	-	- -		-	-	-	-	-
	1	SINGLE COMPARTMENT PREP SINK	CCI FAB	SE-1818-18RL	KES	KES	1/2"	1/2"	-	1-1/2"			-	-	-	-	-
	1	FAUCET	T¢S	B-0231	KES	KES	-	-	-	-			-	-	-	-	-
	2	14X48 SOLID WALL SHELVING SPARE #	CCI FAB	WMS-1448	KES	KES	-	-	-	-			-	-	-	-	-
	-	WORK TABLE - 30X72	- CCI FAB	- WTE-3072-SS-2RS	KES	KES	-	-	-	-	- -		-	-	-	-	-
+	1	WORK TABLE - 24X72	CCI FAB	WTE-2472-99-2R9	KES	KES	-	-	-	-			_	_	-	_	
	1	MIXER	GLOBE	SP62P	KES	KES	+ -	+-	+-	-	- -		220	1	16	3HP	6 FOOT CABLE - HARD WIRED
	1	CUSTOM HAND SINK	CCI FAB	CUSTOM BK-MODEL	KES	KES	1/2"	1/2"		1-1/2"	- -		-	_	-	3HF	
\dashv	1	REFRIGERATED PREP TABLE	KAIRAK	KBP-915-3	KES	KES	1/2	-	_	1-1/2			115	1	13.29	1/2 HP	NEMA 5-30P PLUG
	1	GRANITE CUTTING BOARD 91"x11" WIDE	CCI FAB	CUSTOM	KES	KES	_	<u> </u>	_	_			-	_	15.21	-	-
	<u> </u>	REACH IN REFRIGERATOR	DELFIELD	6051XL-S	KES	KES	_	+	_	_			115	1	8	1/3HP	NEMA 5-15P PLUG
	1	PIZZA OVEN	WOODSTONE	FD-9660-RFGLR-IR	KES	KES	_	-	_	-	1" 350	0,000	115	1	4	-	DIRECT CONNET
	1	WARMING CABINET	FWE	HLC-1826-8	KES	KES	-	-	_	-		,	120	1	4.3	500 WATTS	NEMA 5-15P PLUG
	1	TOPPING RAIL	APW	RTR8	KES	KES	-	-	_	-			120	1	4	-	NEMA 5-15P PLUG
	2	P.O.S.	BY OTHERS	BY OTHERS	OTHERS	OTHERS	-	-	-	-			120	1	10	-	SEPARATE CIRCUIT BREAKER FOR EACH POS STATIONS SUGGESTED
	1	GELATO CASE	SEVEL	M(II)-12-G	KES	KES	-	-	-	-			220	1	6	1130 WATT	DIRECT CONNECT
	1	WORK TABLE - EXPO STATION	CCI FAB	WTE-3048-SS	KES	KES	-	-	-	-			-	-	-	-	-
	1	BAG-N-BOX	BY VENDOR	BY VENDOR	OTHERS	OTHERS	-	-	-	-			-	-	-	-	-
	1	BEER DISPENSING SYSTEM	GLASTENDER	CUSTOM	KES	KES	-	-	-	-			-	-	-	-	-
	1	CO2 TANK (NOT SHOWN)	BY OTHERS	BY OTHERS	OTHERS	OTHERS	-	-	-	-			-	-	-	-	-
	-	SPARE #	-	-	-	-	-	-	-	-			-	-	-	-	-
	-	SPARE #	-	-	-	-	-	-	-	-			-	-	-	-	-
	-	SPARE #	-	-	_	-	-	_	_	-	- -		-	-	-	-	-
	1	REFRIGERATED MERCHANDISER	BEVERAGE AIR	LV-23	KES	KES	-	-	-	-			115	1	7	1/3 HP	NEMA 5-15P PLUG
	-	SPARE #	-	-	-	-	-	-	-	-	- -		-	-	-	-	-
	-	SPARE #	-	-	-	-	-	-	-	-	- -		-	-	-	-	-
_	-	SPARE #	-	-	-	-	-	-	-	-			-	-	-	-	-
	-	SPARE #	-	-	-	-	-	-	-	-	- -		-	-	-	-	-
_	1	BEVERAGE DISPENSER	BY VENDOR	BY VENDOR	OTHERS	OTHERS	_	-	-	3/4"	- -		120	1	3	-	DIRECT CONNECT
	1	ICE MACHINE	ICE-O-MATIC	GEM0450A	KES	KES	-	3/8"	-	3/4"	- -		115		16	-	3 WIRES INCLUDING GROUND - DIRECT CONNECT
	1	TEA BREWER	BY VENDOR	BY VENDOR	OTHERS	OTHERS	-	-	-	-	- -		-	-	-	-	-
	I	TEA DISPENSER	BY VENDOR	BY VENDOR	OTHERS	OTHERS	-	+-	-	-	- -		-	-	-	-	-
										<u> </u>				<u> </u>			
	ORK :	SCHEDULE															

associates architects 102 East Liberty Street, No.108 Savannah, Georgia 31401 T 912.349.5116 F 912.349.5119 www.lyncharch.com Your Pie Savannah Mr. Paul Childers Savannah Pizza Pie Co. PO Box 13826 Savannah, GA 31416 Revisions Description FOOD SERVICE EQUIP. SCHEDULE AS NOTED Date
Project No.
Drawing No. July 30, 2010 0927.00

FOOD SERVICE EQUIPMENT SCHEDULE



SYMBOL	DESCRIPTION
3 T WIDOL	DESCRIFTION
A-1,3	A-1,3 ADJACENT TO ARROW INDICATES HOME-RUN OF CIRCUITS 1,3 TO PANEL A. 1,3 OR A-1,3 ADJACENT
<i>F</i>	TO ARROW INDICATES CIRCUIT CONTINUATION. MARKS ACROSS RACEWAY RUNS INDICATE THE NUMBER OF NO. 12
,≢	CONDUCTORS. UNLESS NOTED, NO MARKS INDICATES TWO NO. 12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS
¦ ∕ ₽₿	ARE NOT SHOWN, SEE GENERAL NOTES. IF INDICATED ADJACENT TO OUTLET, NUMERAL AND LOWER CASE LETTER
/	INDICATES CIRCUIT CONNECTION AND SWITCHLEG DESIGNATION RESPECTIVELY. TYPE B OR CAPITAL LETTER B
A-3	INDICATES LIGHT FIXTURE TYPE. UNLESS NOTED, DIMENSIONS INDICATED IN LEGEND AND ON PLANS ARE TO BOTTO
\mathcal{L}	OF OUTLET OR DEVICE. ALL SYMBOLS INDICATED HEREIN MAY NOT NECESSARILY BE USED ON THE PLANS.
<u>Q</u>	WALL OUTLET AND LUMINAIRE
<u> </u>	CEILING OUTLET AND FLUORESCENT FIXTURE
0	CEILING OUTLET AND LUMINAIRE
<u>о</u> ю	CEILING OR WALL MOUNTED JUNCTION BOX - COORDINATE MOUNTING LOCATION & HEIGHT WITH EQUIPMENT FURNISHED
<u>o o o</u> 6	LIGHT TRACK AND FIXTURES (DOTS DO NOT NECESSARILY INDICATE QUANTITY OF FIXTURES)
Ψ	DUPLEX RECEPTACLE- MT. 16" AFF
•	DUPLEX RECEPTACLE- MT. 48" AFF AND/OR ABOVE COUNTER TOP
₩ P	WEATHERPROOF DUPLEX RECEPTACLE, MT. 16" ABOVE FLOOR AND 36" ABOVE EARTH
9	SPECIAL PURPOSE RECEPTACLE, REFER TO NOTES ON THE PLANS FOR NEMA CONFIGURATION
₩ GF	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE- MT. 48" AFF AND/OR ABOVE COUNTER TOP OR AS INDICATED
Ф 20A	DUPLEX RECEPTACLE, NEMA 5-20R- MT. 16" AFF
<u></u>	SLEEVES, 3M QUICKPASS OR EQUAL 2" UNLESS NOTED.
∇	TELE/DATA OUTLET 4 11/16" SQ DEEP BOX- MT. 16" AFF U.N.O. EXTEND 1"C TO ABOVE CEILING NOTE S5
Vτν	TELEVISION SYSTEM OUTLET 4 11/16" SQ DEEP BOX- MT. 12" AFF. EXTEND 1"C TO ABOVE CEILING NOTE S6
S	SINGLE POLE TOGGLE SWITCH- MT. 48" UP
S³	THREE-WAY TOGGLE SWITCH- MT. 48" UP
S ⁴	FOUR-WAY TOGGLE SWITCH- MT. 48" UP
S ^o	OCCUPANCY SENSOR SWITCH, SINGLE CIRCUIT- MT. 48" UP. WATT-STOPPER PW-100-I
S _M	MOTOR RATED DISCONNECT SWITCH, SINGLE PHASE - MT. 48" UP.
(S)	INCANDESCENT DIMMER SWITCH, MT. 48" AFF LUTRON AY600P-WH
	PANEL, SURFACE MOUNTED
	PANEL, FLUSH MOUNTED
	EQUIPMENT AS NOTED
<u> </u>	ELECTRIC METER
O 1/3	MOTOR, HORSEPOWER AS INDICATED
□ 30/2/3R	NON-FUSIBLE DISCONNECT SWITCH, RATING/POLES/ENCLOSURE AS INDICATED.
	BRANCH CIRCUIT CONCEALED IN WALLS AND/OR ABOVE CEILING
	RACEWAY INSTALLED EXPOSED
·	FLEXIBLE METALLIC RACEWAY, 18" MAXIMUM LENGTH FOR EQUIPMENT CONNECTIONS
	CONDUIT STUB-UP AND HOMERUN
0/•	CONDUIT UP/CONDUIT DOWN
	CONDUIT TERMINATION, STUB-OUT
	GROUND
<u></u>	1800 V-A FAILED CLOSED PHOTOCELL - ADJUSTABLE
<u> </u>	1800 V-A FAILED CLOSED PHOTOCELL - ADJUSTABLE
	FIRE ALARM SYSTEM - NOTE S7
S	SMOKE DETECTOR, CEILING MOUNTED
	THERMAL DETECTOR, CEILING MOUNTED
_	FIRE ALARM VISUAL ALARM DEVICE. MOUNT 80" AFF OR 6" BELOW CEILING TO TOP, WHICHEVER IS LOWER.
<u> </u>	FIRE ALARM VISUAL ALARM DEVICE. MOUNT 80" AFF OR 6" BELOW CEILING TO TOP, WHICHEVER IS LOWER. FIRE ALARM PULL STATION, 48" AFF
FCM	FIRE ALARM PULL STATION, 48" AFF FIRE ALARM CONTROL MODULE
FD TO	FIRE ALARM AUDIBLE AND VISUAL DEVICE. MOUNT 80" AFF OR 6" BELOW CEILING TO TOP, WHICHEVER IS LOWER.
FFL Tr	FIRE ALARM FLOW SWITCH
FTS	FIRE ALARM TAMPER SWITCH
<u> </u>	DUCT PHOTOELECTRIC SMOKE DETECTOR
SP	TVSS/SURGE SUPPRESSION DEVICE, SEE NOTES ON THE PLANS
_₩	EMERGENCY BATTERY PACK, SURE-LITES CC5WHSD

		ABBREVIATIONS					
1	A OR AMP	AMPERES	MT OR MTD	MOUNT OR MOUNTED			
	AFF	ABOVE FINISHED FLOOR	NEC	NATIONAL ELECTRICAL CODE			
1	AIC	AMPERE INTERRUPTING CAPACITY	NFPA	NATIONAL FIRE PROTECTION ASSOC.			
	ASYM	ASYMMETRICAL	NTS	NOT TO SCALE			
	С	CONDUIT	Р	POLE			
	СВ	CIRCUIT BREAKER	RECEPT	RECEPTACLE			
	CKT	CIRCUIT	RMS	ROOT MEAN SQUARE			
	D	DEPTH	SW	SWITCH			
	DISC SW	DISCONNECT SWITCH	SYM	SYMMETRICAL			
	G OR GND	GROUND	TYP	TYPICAL			
1	Н	HEIGHT	UG	UNDERGROUND			
	HP	HORSEPOWER	UL	UNDERWRITERS LABORATORIES			
	JB OR J	JUNCTION BOX	UNO	UNLESS NOTED OTHERWISE			
1	KVA	KILOVOLT - AMPS	V	VOLTS			
1	KW	KILOWATTS	W	WIDTH			
1	L	LENGTH	W/	WITH			
	MCB OR MB	MAIN CIRCUIT BREAKER	WM	WATTMETER			
	MH OR MTG	MOUNTING HEIGHT	WP	WEATHER PROOF			
1	MLO	MAIN LUGS ONLY	XFMR	TRANSFORMER			

GENERAL NOTES: (FOR ALL DRAWINGS WHERE APPLICABLE)

- G1. WHEN CONDUCTOR SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN. THE CONDUCTOR SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.
- G2. REFER TO MECHANICAL SYSTEM DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL SERVICE.
- G3. ARROWHEAD OF PANEL DESIGNATION ON DRAWINGS INDICATES FACE OF FLUSH MOUNTED PANELBOARD.
- G4. GROUNDING CONDUCTORS SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS.
- G5. OMITTED.
- G6. PROVIDE CONDUIT AND BOXES FOR DATA/TELEPHONE SYSTEM TO BE BY OWNER. SEE DETAIL SHEET E301 FOR CABLING REQUIRED.
- G7. PROVIDE CONDUIT AND BOXES FOR TV SYSTEM. SYSTEM WIRE ETC. TO BE BY OWNER.
- G8. PROVIDE RACEWAY IN NON ACCESSIBLE WALLS AND CEILINGS FOR ALL COMMUNICATION WIRING.
- G10. PROVIDE SEISMIC SUPPORTS FOR ELECTRICAL INSTALLATION AS REQUIRED BY IBC AND AUTHORITY HAVING JURISDICTION.
- G11. OMITTED.

G9. OMITTED.

- G12. OMITTED.
- G13. EXTEND CIRCUITS THROUGH SLEEVES IN WALLS OF BUILDING. COORDINATE EXACT LOCATIONS IN FIELD.

ELECTRICAL SPECIFICATIONS

- S1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, 2008 EDITION (WITH LOCAL AMENDMENTS), THE INTERNATIONAL BUILDING CODE.
- S2. ALL LIGHTING FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH THE LIGHTING FIXTURE SCHEDULE.
- S3. ALL CONDUIT SHALL BE CONCEALED ABOVE THE CEILING, WITHIN THE WALL OR BELOW THE FLOOR SLAB. PROVIDE EMT CONCEALED ABOVE THE CEILING AND WITHIN CONCRETE FILLED WALL CAVITIES; PROVIDE STEEL COMPRESSION COUPLINGS AND CONNECTORS. CONDUIT CONCEALED WITHIN FLOOR OR CEILING SLABS SHALL BE RIGID GALVANIZED STEEL (RGS) OR SCH. 40 PVC; PROVIDE THREADED COUPLINGS AND LOCKNUTS FOR RGS, PROVIDE PVC FITTING FOR PVC CONDUIT. CONDUITS EXPOSED OUTSIDE SHALL BE RGS. CONDUITS EXPOSED INSIDE SHALL BE EMT. PROVIDE SEAL—TITE FLEXIBLE METAL CONDUIT CONNECTION TO VIBRATING EQUIPMENT, MAXIMUM LENGTH OF FLEX SHALL NOT EXCEED 18". 6' FIXTURE WHIPS MAY BE USED FOR CONNECTION TO LIGHTS IN LAY—IN TILE CEILINGS. THE CONTRACTOR MAY USE TYPE MC CABLE, INSTALLED IN ACCORDANCE WITH NEC ART. 330. MC CABLE MAY BE USED WITHIN THE BUILDING ABOVE GRADE. INSTALLATION OF MC CABLE SHALL CONFORM TO ART. 330. PROVIDE SEAL—OFF FITTINGS FOR ALL CONDUITS STUBBED OUTSIDE. INSTALL WORK IN CLASSIFIED AREAS PER NEC ART 500.
- S4. ALL RECEPTACLES, TOGGLE SWITCHES AND TELEPHONE OUTLETS SHALL BE FLUSH MOUNTED IN THE WALL; PROVIDE A 4" SQUARE, 1 1/2" DEEP STEEL OUTLET BOX WITH 1-GANG OR 2-GANG (AS REQUIRED) TILE TYPE COVER. DEVICE PLATES SHALL BE SMOOTH SURFACE PLASTIC MATCHING THE FINISH AND COLOR OF THE DEVICE. PROVIDE ENGRAVED PLATES WHERE SPECIFIED. WEATHERPROOF DEVICES SHALL BE PROVIDED WITH A METAL WEATHERPROOF IN-USE TYPE COVER.
- S5. EXTEND 1"C W/PULL STRING FROM EACH TELEPHONE OUTLET TO ABOVE THE ACCESSIBLE CEILING. TERMINATE CONDUITS WITH AN INSULATING BUSHING. PROVIDE CABLING PER DETAIL ON E301.
- S6. EXTEND 1"C W/PULL STRING FROM EACH DATA OUTLET TO ABOVE THE ACCESSIBLE CEILING. TERMINATE CONDUITS WITH AN INSULATING BUSHING. PROVIDE CABLING PER DETAIL ON F301
- S7. FIRE ALARM SYSTEM SHALL CONNECT TO EXISTING FARADAY
 SYSTEM AND SHALL BE INSTALLED BY AUTHORIZED REPRESENTATIVE
 OF FARADAY. ALL SYSTEM SHALL BE IN CONDUIT. CERTIFY SYSTEM.
 EXISTING PANEL IS LOCATED IN ELECTRICAL ROOM ON RAMP. LEVEL P1.
 MAKE ALL MODIFICATIONS AS REQUIRED TO EXISTING SYSTEM.

	LIGHTING FIXTURE SCHEDULE	E (NOTE LF-	-1,2)	
_AMPS	ARE SPECIFIED BY LAMP ORDERING CODE NOT ANSI CODE NUMBER. IN FIXTURE (ex: 3-F40ww). IF NO PREFIX IS INDICATED, THE F LENGTH FOR FIXTURES AND MOUNTING HEIGHTS FOR WALL FIXTURES A	IXTURE HAS ONE LAMP	(ex: 150A-19).	
YPE	DESCRIPTION	LAMP	MOUNT I NG	NOTES
Α	6" INCANDESCENT DOWNLIGHT	75W PAR30	RECESSED	
	JUNO TC2/27C-WH			
ALT1	6" COMPACT FLUORESCENT DOWNLIGHT	18W-CFL	RECESSED	
	INDY LIGHTING ICPL618E/29C-WH			
ALT2	6" LED DOWNLIGHT	14W LED	RECESSED	
	JUNO IC22LED-3K/27C-WH			
B1	LOW VOLTAGE TRACK LIGHT	50W 12V JC	TRACK	
	ALFA P1020J-STN-AMS			
1 ALT	LOW VOLTAGE TRACK LIGHT	50W 12V JC	TRACK	
	ALFA P1020JL-STN-AMS			
B2	LOW VOLTAGE TRACK LIGHT	50W 12V MR16	TRACK	
	ALFA SP526-STN-STN			
2 ALT	LOW VOLTAGE TRACK LIGHT	37W 12V IR MR16	TRACK	
	ALFA SP526-STN-STN			
D	2X4 THREE LAMP FLOURESCENT TROFFER	3-F32WT8	RECESSED	LF-4.5
	FAILSAFE CFDSP-332A-EB			
Ε	FAN/LIGHT COMBO	AS REQUIRED	CEILING	
	SELECTED BY ARCHITECT			
XA	EXIT SIGN WITH HEADS	PROVIDED W/	WALL	LF-3
	SURE-LITES LPX70RWHDH-SD	FIXTURE		
			I	

LIGHTING FIXTURE SCHEDULE

- LF-1. FIXTURES INDICATED ARE TO INDICATE THE QUALITY OF EQUIPMENT REQUIRED. OTHER MANUFACTURERS MAY BE USED. IF THEY MEET PROJECT REQUIREMENTS AS DETERMINED BY ENGINEER. ARCHITECT AND OWNER. SUBMIT FOR PRIOR APPROVAL AT LEAST 10 DAYS PRIOR TO BID.
- LF-2. PROVIDE BASE AND ALTERNATE BIDS TO OWNER FOR LIGHTING PACKAGES SHOWN.
- LF-3. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS. PROVIDE CEILING MOUNTING EXCEPT WHERE WALL OR END NOTED ON PLANS. PROVIDE INTEGRAL BATTERIES WITH SELF-DIAGNOSTIC MODULE. PROVIDE INTEGRAL DOUBLE HEADS ON EXIT LIGHT.
- LF-4. ALL 4 FT. FLUORESCENT LAMPS SHALL BE 32 WATT T-8, 3500 K, 2900 LUMENS F32T8/XL/SP35/ECO.
- LF-5. PROVIDE RAPID START ELECTRONIC BALLASTS WITH 5 YEAR PARTS AND LABOR WARRENTY.
 2 LAMP BALLAST FOR 2 LAMP FIXTURES. ONE 1 LAMP AND ONE 2 LAMP BALLAST FOR
 3 LAMP FIXTURES. AND 2-TWO LAMP BALLASTS FOR 4 LAMP FIXTURES. PROVIDE TANDEM
 BALLASTS FOR PAIRS OF 3 LAMP FIXTURES WHICH ARE CONTROLLED TOGETHER IE. ONE
 FIXTURE TO HAVE ONE TWO LAMP BALLAST AND THE OTHER HAVE TWO TWO LAMP BALLASTS.
 PROVIDE INTERCONNECTING WIRING AS REQUIRED.



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Revisions

No Date Description

Drawing Title

LEGEND, FIXTURE SCHEDULE AND GENERAL NOTES

Scale AS NOTED

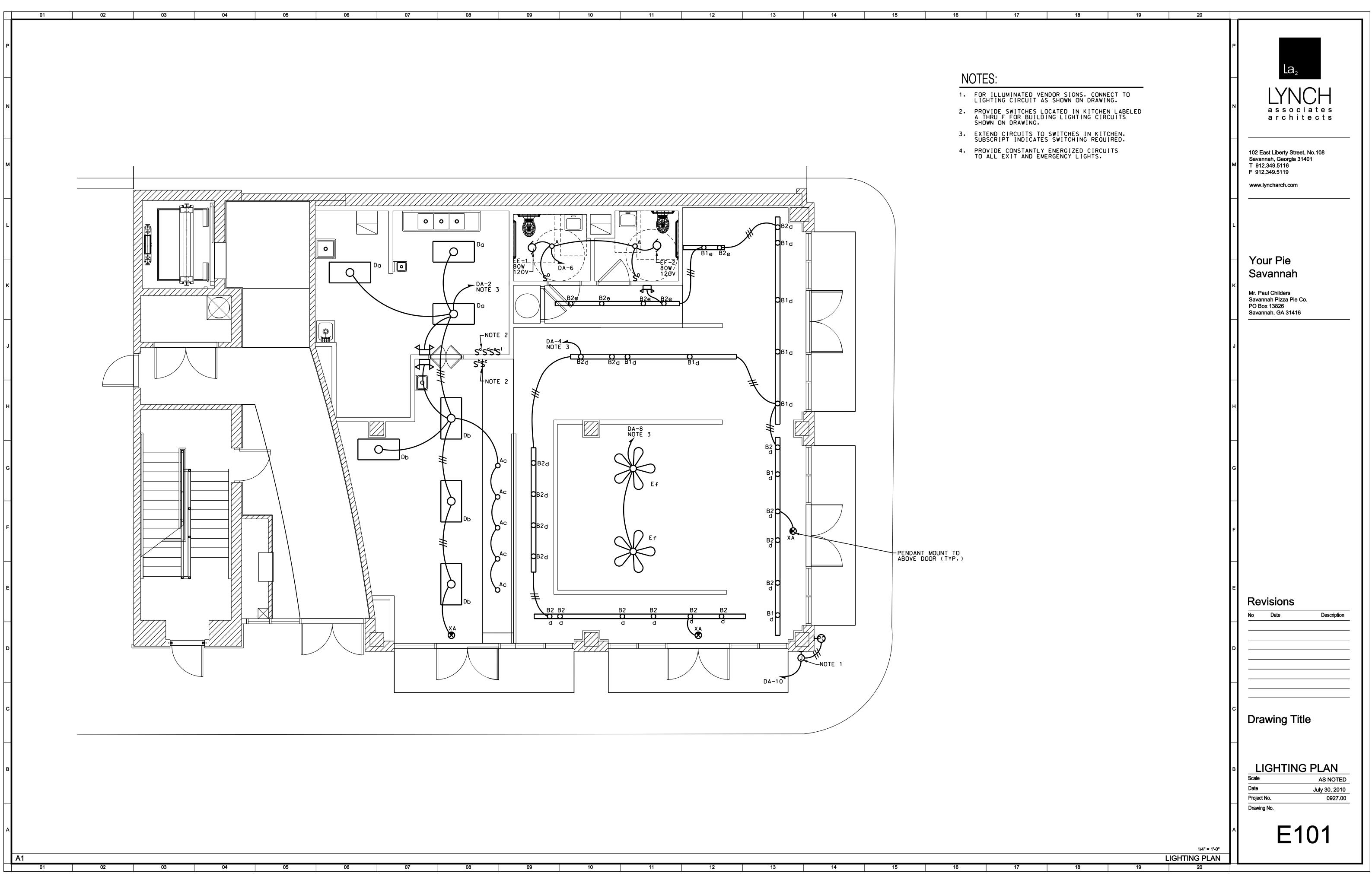
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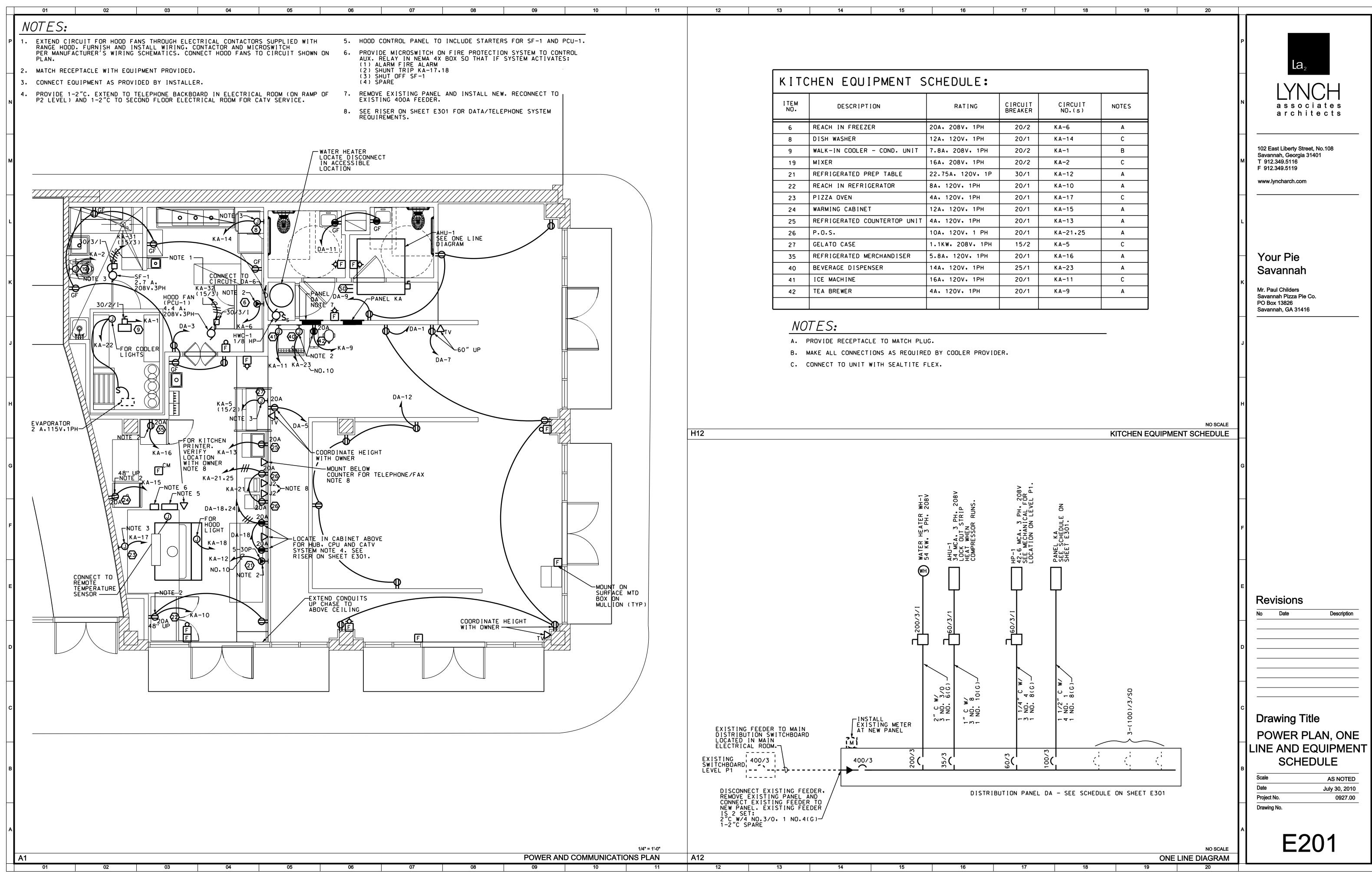
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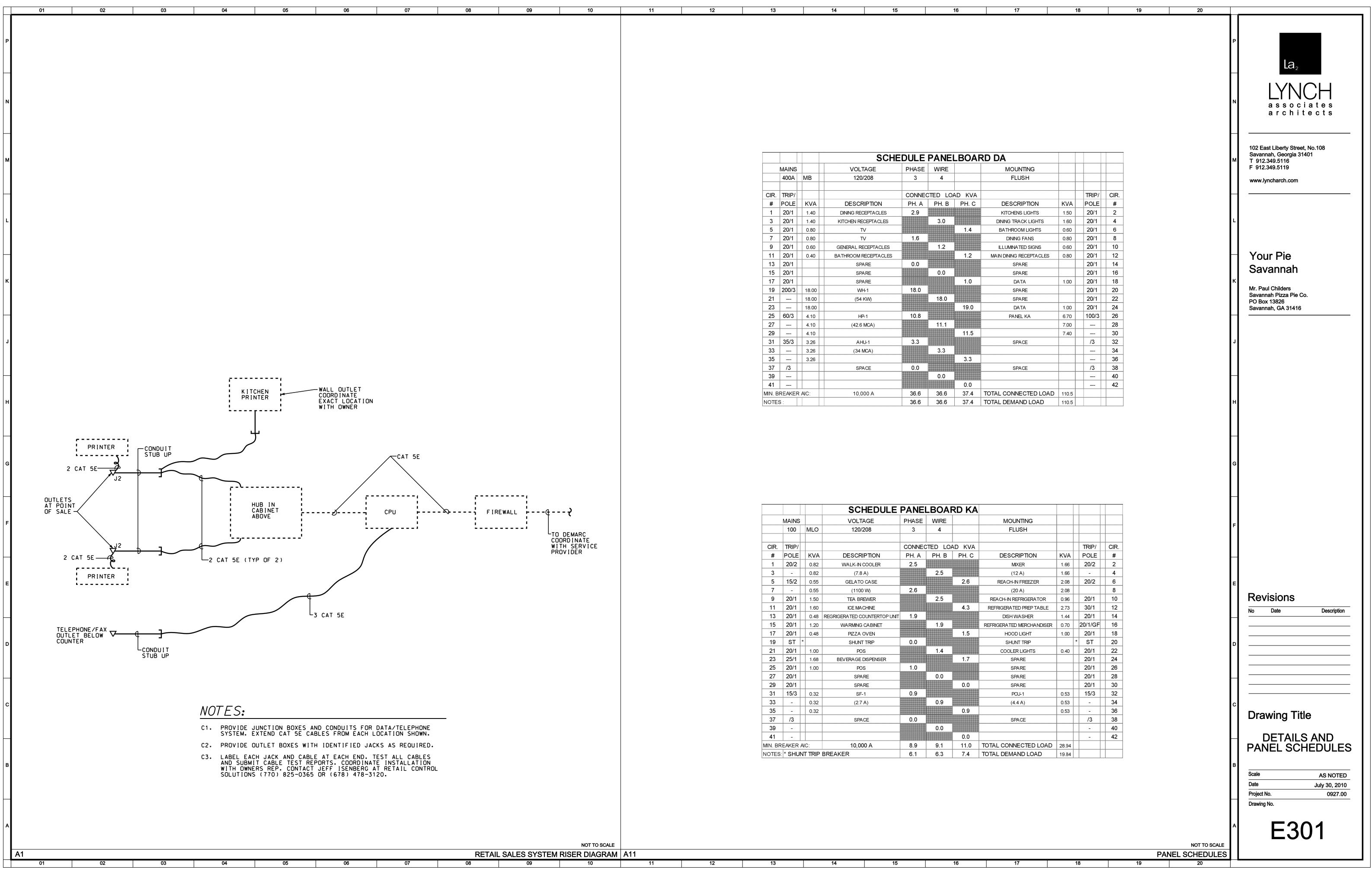
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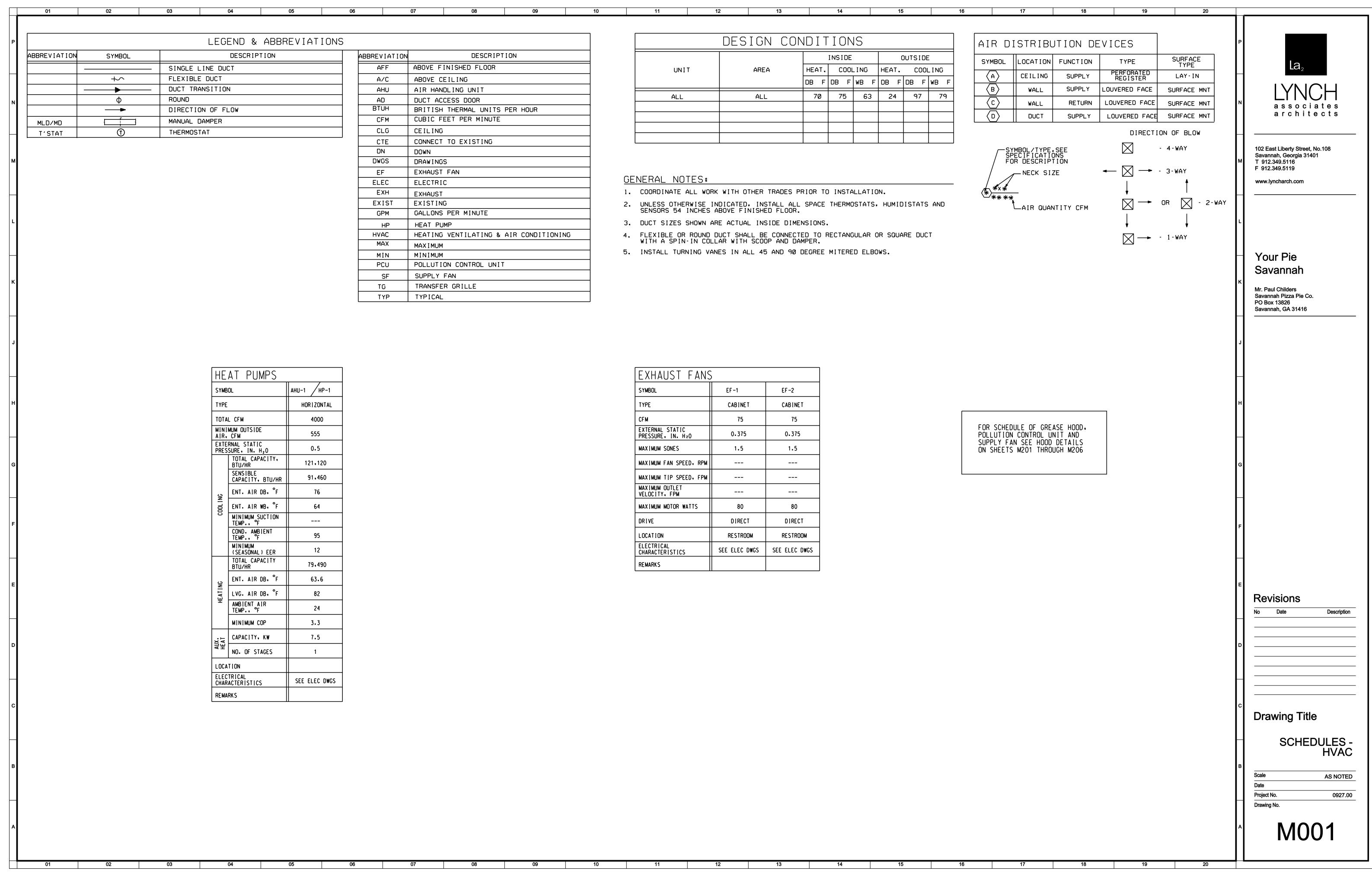
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	THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING CODES: 1. THE INTERNATIONAL BUILDING CODE 2006 EDITION WITH GEORGIA AMENDMENTS. 2. THE INTERNATIONAL MECHANICAL CODE 2006 EDITION WITH GEORGIA AMENDMENTS. 3. THE INTERNATIONAL ENERGY CONVERSATION CODE 2006 EDITION WITH GEORGIA AMENDMENTS. THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING STANDARDS:
.	1. NFPA STANDARD 70, NATIONAL ELECTRIC CODE 2. NFPA STANDARD 90A, INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS. 3. NFPA STANDARD 99, HEALTH CARE FACILITIES. 4. NFPA STANDARD 101, CODE FOR SAFETY OF LIFE FROM FIRE IN BUILDINGS AND STRUCTURES.
	ST AND BALANCE:
A. B.	E CONTRACTOR SHALL PERFORM TEST AND BALANCE ON THE AIR AND WATER DISTRIBUTION SYSTEMS. INSTRUMENTS USED FOR BALANCING SHALL HAVE BEEN CALIBRATED WITHIN 6 MONTHS PRIOR TO THE BALANCING OF THE SYSTEMS. ALL INSTRUMENTS REQUIRED TO BALANCE THE SYSTEM SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.
D. E.	FINAL READINGS SHALL BE SET WITH -5% TO +10% OF DESIGN CONDITIONS. ANY DEVIATIONS FROM DESIGN DATA SHALL BE EXPLAINED IN THE REPORT - POSSIBLE REASONS FOR AND SOLUTIONS TO. REPORT SHALL BE SIGNED AND DATED BY BALANCE ENGINEER. TEST AND BALANCE SHALL NOT BE PERFORMED UNTIL SYSTEM INSTALLATION IS COMPLETE.
_	R DISTRIBUTION:
	GENERAL DUCTWORK SHALL BE CONSTRUCTED OF LOCK FORMING QUALITY GALVANIZED STEEL SHEETS GALVANIZED COATING SHALL BE NOT LESS THAN 1.25 OUNCES (TOTAL FOR BOTH SIDES) PER SQUARE FOOT OF SHEET. DUCTWORK SHALL BE SQUARE, RECTANGULAR, ROUND, OR FLAT OVAL, AS INDICATED ON THE DRAWINGS. TURNING VANES SHALL BE INSTALLED IN ALL 90 DEGREE SQUARE AND RECTANGULAR ELBOWS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS. IN ANY SUPPLY, RETURN OR EXHAUST AIR DUCTWORK WITH VELOCITIES OF 1800 FPM OR HIGHER, THE TURNING VANES SHALL BE THE DOUBLE THICKNESS TYPE, WITH VANES WELDED TO THE RUNNERS AND RUNNERS WELDED TO THE DUCT.
4	DUCTWORK SHALL BE CLASSIFIED AND CONSTRUCTED IN THE FOLLOWING SMACNA PRESSURE CLASSES, OR 150% OF THE SCHEDULED FAN S.P., WHICHEVER IS GREATER: SYSTEM OR ZONE PRESSURE CLASS
	SUPPLY AIR DUCTWORK FROM AIR HANDLER + 2
R.	RETURN DUCTWORK EXHAUST DUCTWORK (GENERAL BUILDING) KITCHEN HOOD EXHAUST DUCTWORK GALVANI ZED STEEL DUCTWORK
	EXCEPT WHERE INDICATED OTHERWISE, HEREIN OR ON THE DRAWINGS, DUCT CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE SMACNA HVAC DUCT CONSTRUCTION MANUAL FOR PRESSURE CLASSES SPECIFIED HEREINBEFORE. AL GALVANIZED AREAS DAMAGED BY WELDING SHALL BE COATED WITH RUST INHIBITIVE ALUMINUM PAINT. ROUND AND FLAT OVAL DUCTWORK SHALL BE SPIRAL LOCK-SEAM CONSTRUCTION, EXCEPT AS FOLLOWS: A. CONCEALED ROUND DUCT UP TO 12" IN DIAMETER IN PRESSURE CLASS 2" SHALL BE LONGITUDINAL SEAM CONSTRUCTION. B. ROUND DUCTS 61" AND LARGER IN DIAMETER SHALL BE LONGITUDINAL SEAM CONSTRUCTION WITH FUSION WELDED BUTT SEAMS. SECTIONS SUPPLIED IN LENGTHS GREATER THAN FOUR FEET SHALL HAVE ANGLE IRON RINGS WELDED TO THE DUCT ON FOUR FOOT CENTERS (MAXIMUM). WELDING OF THE ANGLE RING TO DUCT SHALL APPLY NOT LESS THAN ONE INCH OF WELD FOR EACH FOOT OF ANGLE RING. C. FLAT OVAL DUCT SIZES NOT AVAILABLE IN SPIRAL LOCK SEAM CONSTRUCTION SHALL BE LONGITUDINAL SEAM CONSTRUCTION WITH FUSION WELDED BUTT SEAMS.
Ę	ROUND AND FLAT OVAL FITTINGS SHALL BE FUSION WELDED BUTT SEAM TYPE WITH ALL WELDS CONTINUOUS ALONG SEAMS. ALL DIVIDED FLOW FITTINGS SHALL BE MANUFACTURED AS SEPARATE FITTINGS - TAP COLLARS WELDED INTO SPIRAL DUCT SECTIONS WILL NOT BE PERMITTED. ALL DIFLOW FITTINGS 12° AND SMALLER SHALL HAVE RADIUSED ENTRANCE PRODUCED BY MACHINE OR PRESS FORMING; ALL DIVIDED FLOW FITTINGS 14° AND LARGER SHALL HAVE CONICAL ENTRANCE PRODUCED BY MACHINE OR PRESS FORMING. ALL DIVIDED FLOW ENTRANCES SHALL BE FREE OF WELD BUILD UP, BURRS, AND IRREGULARITIES. FITTINGS SHALL BE THE SAME MANUFACTURER AS DUCTWORK. PRE-INSULATED ROUND AND FLAT OVAL DUCTWORK SHALL BE AS SPECIFIED ABOVE. IN ADDITION, DUCTWORK SHALL HAVE 2° OF FIBERGLASS DUCT INSULATION SANDWICHED BETWEEN OUTER CASING AND SOLID INNER GALVANIZED STEEL LINER. DUCT SEALANT SHALL BE A U.L. LISTED SYNTHETIC LATEX BASE MASTIC OR MINERAL IMPREGNATED WOVEN FIBER TAPE WITH ADHESIVE. DUCT SEALING COMPOUNDS SHALL BE LOW VOC TYPE WITH A MAXIMUM VOC EMISSION OF 250 GRAMS PER LITER A. SEALANT SHALL HAVE FIRE HAZARD CLASSIFICATION PER ASTM E84 OF FLAME SPREAD-5 AND SMOKE DEVELOPMENT-0.
C.	FLEXIBLE DUCTWORK 1. INSULATED FLEXIBLE DUCT SHALL BE CLASS 1 AIR DUCT IN ACCORDANCE WITH UL 181 AND SHALL COMPLY WITH NFPA 90A AND 90B. INSULATED FLEXIBLE DUCT SHALL CONSIST OF AN INNER FILM LAYER FOR MINIMUM WORKING PRESSURE OF 6° WG. BONDED TO A STEEL OR ALUMINUM SPRING WIRE HELIX, FIBERGLASS INSULATION, AND A VAPOR BARRIER JACKET. INSULATION SHALL HAVE A MAXIMUM C-VALUE OF .23 BTU/HR/SO. FT./DEGREE F. AT 75 DEGREES F. MEAN TEMPERATURE. VAPOR BARRIER JACKET SHALL HAVE A MAXIMUM VAPOR TRANSMISSION RATE OF 0.1 GRAINS/SO. FT./HR/INCH HG (PERM). THE ASSEMBLY SHALL HAVE A MAXIMUM FLAME AND SMOKE RATING OF 25/50 PER ASTM E84 AND NFPA 255. MINIMUM WORKING PRESSURE FOR DUCT PRESSURE CLASS 4° AND BELOW SHALL BE 6° WG. INSULATED FLEXIBLE DUCT SHALL BE THERMOFLEX OR APPROVED EQUAL.
D.	KITCHEN HOOD EXHAUST DUCTWORK 1. EXCEPT WHERE INDICATED OTHERWISE, HEREIN, OR ON THE DRAWINGS, DUCT CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF NFPA 96 WITH ALL WELDED JOINTS AND SEAMS. 2. DUCTWORK SHALL BE CARBON STEEL NOT LESS THAN 0.054 INCHES OR STAINLESS STEEL NOT LESS THAN 0.043 INCHES IN THICKNESS. 3. JOINTS IN DUCTWORK SHALL BE ELECTRIC WELDED WITH CORROSION RESISTANT STEEL RODS. EXPOSED WELDED JOINTS SHALL BE GROUND EVEN WITH ADJOINING MATERIAL SURFACES AND SHALL BE POLISHED
Ε.	FIRE DAMPERS SHALL BE FUSIBLE LINK TYPE TESTED FOR CLOSURE UNDER AIR FLOW, (I.E. DYNAMIC CLOSURE) CONFORMING TO UL 555 AND LABELED FOR INSTALLATION IN FIRE RATED WALLS. FIRE DAMPERS SHALL BE RUSKIN MODEL IBD2 FRAME B OR APPROVED EQUAL.
F.	DUCT ACCESS DOORS SHALL BE DOUBLE WALL CONSTRUCTION OF NOT LESS THAN 24 GAUGE GALVANIZED STEEL SHEET, WITH I INCH THICK NEOPRENE COATED FIBERGLASS INSULATION BETWEEN THE WALLS. DOORS SHALL HAVE A CONTINUOUS HINGE ON ONE SIDE AND CAM LATCH WITH STRIKER PLATE ON THE OTHER SIDE; DOORS WITH THE HEIGHT OVER 12 INCHES SHALL HAVE NOT LESS THAN 2 CAM LATCHES WITH STRIKER PLATES. DOOR FRAME SHALL BE CONSTRUCTED OF NOT LESS THAN 22 GAUGE GALVANIZED STEEL AND SHALL HAVE KNOCK OVER EDGES FOR SECURING TO DUCT. THE DOOR ASSEMBLY SHALL BE DOUBLE GASKETED TO PROVIDE SEALS FROM THE DOOR TO THE FRAME AND FROM THE FRAME TO THE DUCT. ACCESS DOORS SHALL BE RUSKIN MODEL ADH2 OR APPROVED EQUAL.
IN	SULATION FOR HVAC SYSTEMS:
	FIBERGLASS BLANKET INSULATION ON SUPPLY AND RETURN DUCTS SHALL BE FIBROUS GLASS BLANKET TYPE DESIGNED FOR USE ON SURFACES UP TO 250 F WITH A FACTORY APPLIED ALUMINUM FOIL AND KRAFT VAPOR BARRIER JACKET. INSULATION SHALL HAVE A MINIMUM DENSITY OF 1.0 LB/CU. FT. AND A MAXIMUM CONDUCTIVITY OF 0.26 BTU/IN. PER SQ.FT. PER DEGREE F PER HOUR AT 75°F MEAN TEMPERATURE. INSULATION SHALL BE KNAUF DUCTWRAP OR APPROVED EQUAL. INSULATION THICKNESS SHALL BE 2°.
	MINERAL FIBER INSULATION SHALL BE USED ON KITCHEN HOOD EXHAUST DUCTWORK. INSULATION SHALL BE RIGID MINERAL WOOL BOARD CONFORMING TO ASTM C 612 DESIGNED FOR USE ON SURFACES UP TO 1800 F. INSULATION SHALL HAVE A MINIMUM DENSITY OF 8 LB./CU. FT. AND A MAXIMUM CONDUCTIVITY OF 0.42 BTU/IN. PER SQ. FT. PER F PER HOUR AT 400 F MEAN TEMPERATURE. INSULATION SHALL BE OWENS CORNING OR APPROVED EQUAL. INSULATION SHALL BE APPLIED ON 22 GAUGE SHEET METAL WITH ALL JOINTS BUTTED TOGETHER. THE INSULATION AND SHEET METAL SHALL BE SPACED OFF EXHAUST DUCT 1" WITH NON COMBUSTIBLE SPACERS. INSULATION SHALL BE SECURED TO SHEET METAL WITH WELD PINS AND WRAPPED WITH WIRE MESH. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96.
<u> P I</u>	PE INSULATION:
В.	PIPE INSULATION FOR REFRIGERANT LINES AND CONDENSATE DRAIN LINES SHALL BE SELF SEALING, FLEXIBLE CELLULAR, ELASTOMERIC TYPE CONFORMING TO ASTM C 534, DESINGED FOR US ON PIPES FROM -40°F TO 220°F. INSULATION SHALL HAVE A MINIMUM DENSITY OF 6 LB/CU. FT AND A MAXIMUM CONDUCTIVITY
	('K' VALUE) OF 0.28 BTU/IN. PER SQ. FT. PER °F PE HOUR AT 75°F MEAN TEMPÉRATURE AND A MAXIMUM PERFORMANCE OF 0.17 LB/SQ. FT.

AIR DEVICES:

- A. TYPE 'A' CEILING DIFFUSER SHALL BE ALUMINUM WITH REMOVABLE PERFORATED FACE PANEL, ADJUSTABLE DIFFUSION LOUVERS, OPPOSED BLADE DAMPER AND ROUND NECK. FACE PANEL SHALL FIT 24X24 LAY-IN TEE BAR CEILING GRID. THROW PATTER SHALL BE FOUR WAY UNLESS NOTED ON DRAWINGS. TYPE 'A' CEILING DIFFUSER SHALL BE TITUS PAS-AA OR APPROVED EQUAL.
- B. TYPE 'B' SUPPLY AIR REGISTERS SHALL BE ALUMINUM WITH DOUBLE DEFLECTING INDIVIDUALLY ADJUSTABLE HORIZONTAL AND VERTICAL VANES AND FLAT MARGIN WITH GASKET. VERTICAL VANES SHALL BE IN FRONT: VANE SPACING SHALL BE 3/4" (20MM) ON CENTER. REGISTERS SHALL BE PROVIDED WITH STEEL OPPOSED BLADE DAMPER KEY OPERATED FROM FACE OF REGISTER. TYPE 'B' REGISTERS SHALL BE TITUS 300F OR APPROVED EQUAL.
- C. TYPE 'C' RETURN REGISTER SHALL BE ALUMINUM WITH FIXED HORIZONTAL VANES AND FLAT MARGIN. VANE SPACING SHALL BE 3/4" (20MM) (MAXIMUM) ON CENTER. REGISTERS SHALL BE PROVIDED WITH STEEL OPPOSED BALDE DAMPERS KEY OPERATED FROM THE FACE OF REGISTER. TYPE 'C' SHALL BE TITUS 350F OR APPROVED EQUAL.
- D. TYPE 'D' SUPPLY AIR REGISTER SHALL BE ALUMINUM WITH INDIVIDUALLY ADJUSTABLE HORIZONTAL AND VERTICAL VANES. VERTICAL VANES SHALL BE IN FRONT; VANE SPACING SHALL BE 3/4" (20MM) ON CENTER. MARGIN SHALL BE CURVED TO FIT ROUND EXPOSED DUCT. REGISTER SHALL BE PROVIDED WITH STEEL OPPOSED BLADE DAMPER KEY OPERATED FROM FACE OF REGISTER. TYPE 'D' SHALL BE TITUS S300 OR APPROVED EQUAL.

LOUVER:

A. LOUVER SHALL BE UNITED ENERTECH MODEL SFL 6° OR APPROVED EQUAL. LOUVER SHALL BE CONSTRUCTED OF 304 STAINLESS STEEL WITH A CLEAR ANODIZED FINISH. CAULK ALL ROUND LOUVER FRAME TO MAKE INSTALLATION WATERTIGHT.

EXHAUST FANS:

- A. FANS SHALL BE THE CEILING CENTRIFUGAL TYPE WITH INSULATED METAL HOUSING, BACK DRAFT DAMPER, AND INTEGRAL EXHAUST GRILLE.

 B. HOUSDING SHALL BE GALVINIZED STEEL WITH 1/. THICK (MINIMUM) COATED FIBERGLAS INSULATION. INSULATION SHALL COMPLY WITH ASTM E84 AND NFPA 255 FOR MAXIMUM RATINGS OF FLAME 25 AND SMOKE 50.

 C. FAN WHEEL SHALL BE FORWARD CURVED CENTRIFUGAL TYPE WITH DIRECT DRIVE.

 D. FAN MOTOR AND DRIVE SHALL BE MOUNTED ON VIBRATION ISOLATORS.

 E. FANS SHALL BE GREENHECK MODEL SP OR APPROVED EQUAL.

 F. WALL CAPS SHALL BE STEEL WITH BIRD SCREEN AND FACTORY APPLIED BAKED ENAMEL FINISH AND SHALL BE GREENHECK MODEL WC OR APPROVED EQUAL.

SPLIT SYSTEM HEAT PUMPS:

- A. BLOWER CASINGS SHALL BE HORIZONTAL DRAW THROUGH ARRANGEMENT AS INDICATED ON THE DRAWINGS.
- B. CASING SHALL BE STEEL WITH INTERNAL REINFORCING FRAME AND FACTORY BAKE ENAMEL FINISH. FAN SHALL BE DYNAMICALLY BALANCED AND RATED IN ACCORDANCE WITH AMCA 210. FAN BEARINGS SHALL HAVE GREASE FITTINGS ACCESSIBLE FROM OUTSIDE OF CASING WHILE UNIT IS OPERATING. REFRIGERANT COIL SHALL HAVE COPPER TUBE AND ALLUMINUM FINS. FINS SHALL BE MECHANICALLY NODED TO THE TUBES. COIL PERFORMANCE SHALL BE RATED IN ACCORDANCE WITH ARI 410. COILS SHALL BE FACTORY PRESSURE TESTED. FILTER SHALL BE MANUFACTURERS STANDARD 1 INCH THICK HIGH VELOCITY FLAT TYPE FILTER. FILTER SHALL CONFORM TO UL 900 FOR CLASS I CONSTRUCTION. DRAIN PAN SHALL BE FACTORY INSULATED GALVANIZED STEEL.
- C. HEATING COIL SHALL BE MANUFACTURER'S STANDARD RESISTENCE ELECTRIC HEATING COIL.
- D. HEAT PUMP UNITS SHALL BE DESIGNED FOR OUTDOOR OPERATION HOUSING ALL HIGH SIDE COMPONENTS.
 HEAT PUMP UNITS SHALL INCLUDE COMPRESSOR, CONDENSING COIL, CONDENSER FAN, MOTORS, CHARGING
 VALVES, REVERSING VALVE AND CONTROLS. UNIT SHALL REQUIRE ONLY ONE ELECTRICAL SERVICE CONNECTION.
 COMPRESSOR SHALL BE RECIPROCATION HERMETIC TYPE WITH OIL PUMP, CRANKCASE HEATER, HIGH PRESSURE
 LIMIT SWITCH AND RUBBER-IN-SHEAR VIBRATION ISOLATORS. COMPRESSOR MOTOR SHALL HAVE BOTH THERMAL
 AND CURRENT OVERLOAD PROTECTION. CONDESER COIL SHALL BE CONSTRUCTED WITH COPPER TUBES AND
 ALUMINUM FINS. FINS SHALL BE MECHANICALLY BONDED TO TUBES. COIL CAPACITY SHALL BE RATED IN ACCORDANCE
 WITH ARI 210. CONDENSER FAN SHALL BE PROPELLOR TYPE WITH DRIECT DRIVE PERMENANTLY LUBRICATED MOTOR
 AND FAN GUARD. FANS SHALL BE STATICALL AND DUNAMICALLY BALANCED AND RATED IN ACCORDANCE WITH AMCA 210.
- E. ENCLOSURE SHALL BE CONSTRUCTED OF GALVANIZED STEEL WITH BAKED ENAMEL FINISH. CONDENSER SECTION AIR INTAKE AND DISCHARGE SHALL HAVE WIRE SCEEN GUARDS.
- F. CONTROLS SHALL BE MOUNTED IN A SPERATE COMPARTMENT WITH HINGED COVER AND ACCESSIBLE FROM OUTSIDE UNIT WHILE OPERATING. CONTROLS SHALL INCLUDE LINE TO 24 VOLT TRANSFORMER, COMPRESSOR AND FAN CONTACTORS, LOW AMBIENT CONTRL FOR OPERATION TO Ø DEGREES F AND OVERLAOD PROTECTION.
- G. AIR HANDLER SHALL BE TRANE MODEL TWE120 OR APPROVED EQUAL WITH MATCHING HEAT PUMP UNIT TRANE TWA120 OR APPROVED EQUAL.

SEQUENCE OF OPERATIONS:

- A. AIR HANDLING UNIT AHU-1/HP-1

 1. AIR HANDLER SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS. UPON A RISE IN SPACE TEMPERATURE ABOVE COOLING SET POINT THERMOSTAT MOUNTED IN THE SPACE SHALL CYCLE THE COMPRESSOR AS REQUIRED TO MAINTAIN COOLING SET POINT. UPON A DROP IN SPACE TEMPERATURE BELOW HEATING SET POINT THE COMPRESSOR SHALL CYCLE THE COMPRESSOR TO MAINTAIN HEATING SET POINT. UPON A FURTHER DROP IN SPACE TEMPERATURE BELOW HEATING SET POINT OR IF CALLED FOR BY THE THERMOSTAT THE AUXILIARY STRIP HEAT SHALL BE ACTIVATED.

 2. A DUCT MOUNTED SMOKED DETECTOR IN THE SUPPLY DUCT SHALL STOP THE UNIT UPON ACTIVATION. THE SMOKE DETECTOR SHALL SEND A SIGNAL THE THE FIRE ALARM SYSTEM.
- B. EXHAUST FANS EF 1 AND 2
- 1. FANS SHALL BE INTERLOCKED WITH THE LIGHTS.

FOR SPECIFICATIONS OF GREASE HOOD. POLLUTION CONTROL UNIT AND SUPPLY FAN SEE HOOD DETAILS ON SHEETS M201 THROUGH M206



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Revisions

Description

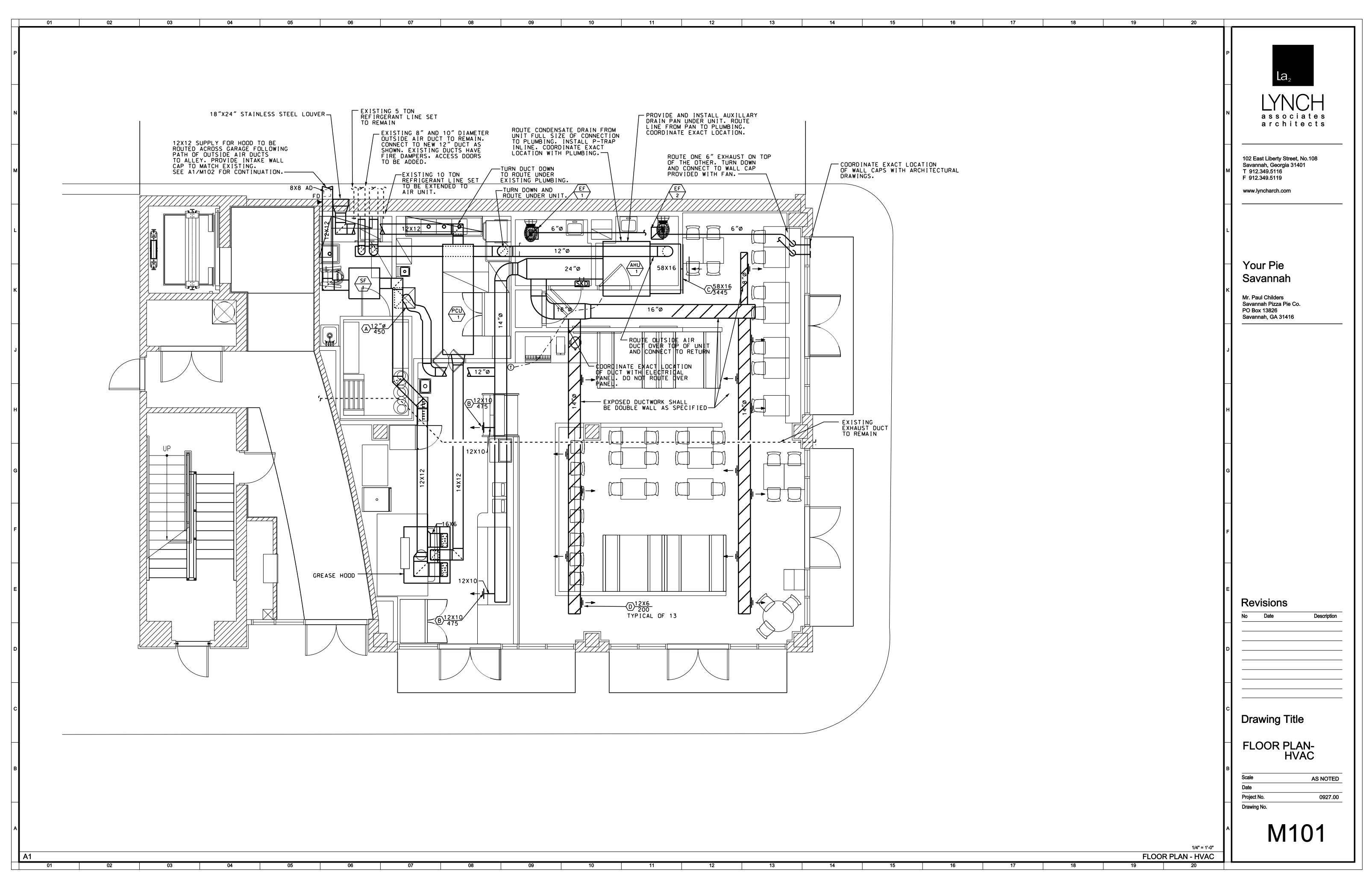
Drawing Title

SPECIFICATIONS -

AS NOTED 0927.00



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