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#### PROJECT DATA:

PROJECT NAME: BRITTANY'S CUPCAKES

PROJECT ADDRESS: 224 N MARION AVE, LAKE CITY, FLORIDA, 32055

PROJECT ZONING: STORES/1 STORY (1100)

DESIGN CODE: FLORIDA BUILDING CODE 2020 7TH EDITION, FLORIDA FIRE PREVENTION CODE 2018, AND ASCE-7-16

SQUARE FOOTAGE: 1262SF (+/-)

STORIES: 1 STORY

OCCUPANCY LOAD: 23

OCCUPANCY TYPE: A-2 (BAKERY)

CONSTRUCTION TYPE: V-B UNSPRINKLED/ UNPROTECTED

ENCLOSURE: ENCLOSED BUILDING

FIRE CODE: NFPA 101 FIRE PREVENTION CODE 2018

#### PROJECT ANALYSIS:

2020 FLORIDA ACCESSIBILITY ANALYSIS 100% ADA COMPLIANT: YES **YERTICAL ACCESSIBILITY: N/R** IDENTIFY 20% HANDICAP UPGRADES: YES AN ACCESSIBLE ENTRANCE: YES AN ACCESSIBLE ROUTE TO ALTERED AREA: YES ACCESSIBLE RESTROOM(S): YES ACCESSIBLE FOUNTAIN: N/R

PLUMBING REQUIREMENTS FOR BUILDINGS: OCCUPANT LOAD: 23 PER FBC 1004.1.2 23 / 2 = 12 MEN, 12 WOMEN PER FBC 403.1

		REQUIRED	PROVIDED
MEN	MC	1	1
	LAV	1	1
MOMEN	MC	1	1
MOMEN	LAV	1	1
	FTN	-	-
SYC	MC	1	1



#### **GENERAL NOTES:**

1. ALL CONSTRUCTION MUST COMPLY WITH ALL GOVERNING CODES.

2. ALL CONTRACTORS AND SUB-CONTRACTORS WILL THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE CONSTRUCTION DOCUMENTS AND WILL YERIFY EXISTING SITE AND BUILDING CONDITIONS PRIOR TO SUBMITTING A BID.

3. SUB-CONTRACTORS BEFORE STARTING THEIR WORK WILL CHECK AND VERIFY THEIR PARTICULAR RELATED REQUIREMENTS FOR COMPLIANCE ALONG WITH MEASUREMENTS, SURFACE LEVELS, SURFACE CONDITIONS NEAR & ABOUT THEIR WORK. IT WILL BE CONCLUDED THAT EACH BIDDER UNDERSTANDS AND KNOWS WHAT MILL BE REQUIRED.

4. THIS ENGINEER AND HIS PROFESSIONAL CONSULTANTS WILL NOT HAVE CONTROL OF & WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES, OR SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK ON THE PROJECT OR FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK ON THIS SITE.

5. ALL CONTRACTORS WILL PROVIDE ADEQUATE BRACING AND/OR SHORING TO INSURE STRUCTURAL STABILITY OF THE BUILDING AND ALI RELATED BUILDING COMPONENTS, I.E.: STRUCTURAL WALLS, INTERIOR WALL ASSEMBLIES ETC., DURING THE CONSTRUCTION PHASE OF THIS PROJECT.

6. ALL WORK WILL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCE & PRESERVE MAXIMUM HEADROOM & AVOID OMISSIONS. EACH CONTRACTOR WILL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED BY CODE AND NEEDS TO COMPLETE THIS WORK.

7. ALL MATERIAL USED WILL BE NEW & BEAR UL LABELS WHERE REQUIRED & MEET NEMA STANDARDS.

8. LAYOUT ALL PARTITIONS BEFORE BEGINNING CONSTRUCTION TO PREVENT ERRORS BY DISCREPANCY. ALL DRYWALL PARTITIONS WILL BE INSTALLED AS NOTED ON THE DRAWINGS DO NOT SCALE THE DRAWINGS.

9. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING CUTTING, AND/OR INSTALLING MATERIAL, PRODUCT OR EQUIPMENT. IN THE EVENT OF ANY DISCREPANCIES, CONTACT THE ENGINEER BEFORE PROCEEDING WITH THAT WORK.

10. ALL SUB-CONTRACTORS WILL PROVIDE A CERTIFICATE OF INSURANCE TO THE OWNER PRIOR TO STARTING ANY WORK ON THIS PROJECT. CERTIFICATE OF INSURANCE CAN NOT BE TERMINATED OR CANCELED WITHOUT 10 DAYS PRIOR WRITTEN NOTICE TO THE OWNER.

11. NO SUBSTITUTIONS OF ANY KIND FOR MATERIALS SPECIFIED ON THESE CONSTRUCTION DOCUMENTS IS ALLOWED. NO "EQUIVALENT" SUBSTITUTIONS WILL BE MADE, UNLESS APPROVED IN WRITING BY THE ENGINEER & APPROVED BY THE OWNER DUE TO THE LACK OF AVAILABILITY OF ORIGINAL, U.O.N. IN THESE DOCUMENTS

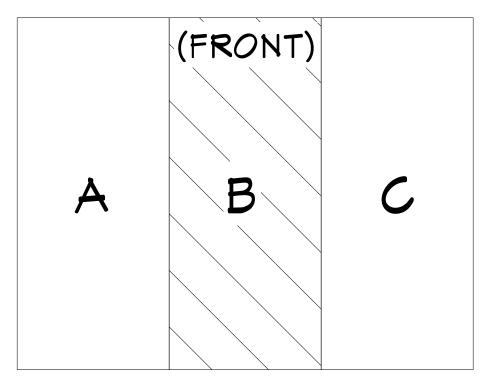
12. EACH CONTRACTOR IS RESPONSIBLE FOR THE FIRST CLASS MORKMANSHIP & WILL ASSUME ALL RESPONSIBILITY FOR THE CARE AND PROTECTIONS OF HIS OWN WORK & MATERIAL FRO DAMAGE. HE WILL MAKE GOOD ANY DAMAGE TO HIS OWN OR OTHER WORK CAUSED BY HIMSELF OR WORKMAN EMPLOYED BY HIM.

13.EACH CONTRACTOR WILL ABIDE BY LOCAL AREA STANDARDS & RELATED OSHA STANDARDS FOR THE SAFETY OF THEIR EMPLOYEES ON SITE. THIS ENGINEER AND HIS PROFESSIONAL CONSULTANTS WILL BE HELD HARMLESS BY THE: OWNER, GC, AND RELATED AWARDED TRADES, ON THIS PROJECT FOR ACCIDENTS OR INJURIES CAUSED OR ACCRUED ON THIS PROPERTY DURING CONSTRUCTION PHASES OF THIS PROJECT.

14. SHOULD FIRE ALARM & SPRINKLER DRAWINGS BECOME A REQUIREMENT, IT WILL BE THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND TO BE SUBMITTED AS SEPARATE PERMIT

## KEY PLAN

A- ASSEMBLY B- BAKERY (PROJECT) **C- YACANT** 



### PLUMBING NOTES

A - CONTRACTOR IS RESPONSIBLE FOR PERFORMING FIELD ASSESSMENT TO VERIFY & ENSURE INFORMATION WITHIN THESE DRAWINGS ARE AN ACCURATE REPRESENTATION.

B-THE WORK SHALL CONFORM TO ALL FEDERAL, STATE & LOCAL CODES/ORDINANCES. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL.

C - ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCES. ALL MATERIAL, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE YEAR AFTER SYSTEM HAS BEEN ACCEPTED.

D - DO NOT SCALE DRAWINGS

E - PLUMBING CONTRACTOR SHALL MAINTAIN A CURRENT SET OF PLUMBING DRAWINGS AT THE PROJECT SITE TO BE USED FOR CONSTRUCTION PROGRESS, REVIEW & FUTURE "AS-BUILTS". ALL MARKS AND REVISIONS SHALL BE MADE WITH RED PENCIL/PEN AND SHALL BE LEGIBLE & ACCURATE. SUBMIT DRAWINGS TO EOR AT THE COMPLETION OF WORK FOR REVISION

F - SANITARY WASTE AND VENT PIPING ABOVE GRADE SHALL BE SCH. 40 SOLVENT WELDED FITTINGS. COLD WATER PIPING SHALL BE SCH. 40 W/ MATCHING SOLVENT WELDED FITTINGS. HOT WATER PIPING SHALL BE SCH. 40 CPYC W/ MATCHING SOLVENT WELDED FITTINGS.

G - PLUMBING FIXTURES SHALL BE AS SCHEDULED ON DRAWING PROVIDE CONTROL STOP VALVES IN EA. SUPPLY TO EA. FIXTURE THE FINISH OF FITTINGS, ACCESSORIES & SUPPLY EXPOSED TO VIEW SHALL BE CHROME PLATED.

H - PENETRATIONS: PROVIDE CHROME PLATED BRASS ADJUSTABLE ESCUTCHEON PLATES AT EXPOSED PIPE PENETRATIONS THROUGH WALLS, PARTITIONS, CEILINGS & FLOORS

I - TESTING WATER SYSTEM: TEST THE ADDED PORTION OF THE PLUMBING SYSTEM @ 150% OF DESIGN PRESSURE, BUT NOT LESS THAN 100 PSIG. ALLOW PRESSURE TO REMAIN FOR 24 HOURS. INSPECT EVERY JOINT FOR LEAKS WHILE UNDER TEST PRESSURE. ank REPAIR ALL LEAKS DETECTED WITH NEW MATERIAL & RETEST

### **ELECTRICAL NOTES:**

A - THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK AS INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE EOR AS SOON AS POSSIBLE; FIELD ALLOCATED DECISIONS IN ARE NOT TO BE PERFORMED WITHOUT EOR APPROVAL TO ADDRESS THESE ISSUES.

B - CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND FAMILIARIZE HIMSELF/HERSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL & COMMUNICATIONS INSTALLATION. IT IS CONTRACTORS RESPONSIBILITY TO MAKE PROVISIONS TO THE COST THEREOF

C - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CODE! ORDINANCE AUTHORITATIVE JURISDICTION & THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. THE SPECIFICATION, CODES & STANDARDS LISTED ARE UTILIZED IN THIS PROJECT: NFPA-70, NFPA-101, UL, NEMA, ANSI, FED. SPEC., IPCEA, IEEE, OSHA.

D - DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO ENGINEERING PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNERS REPRESENTATIVE/ CONSULTANT.

E - IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

### MECHANICAL NOTES:

A - IT IS CONTRACTORS RESPONSIBILITY TO ASSESS REFERENCED INFORMATION WITHIN THESE PLANS TO ENSURE ACCURACY PRIOR TO BID, OR COMMENCEMENT OF WORK

B - ALL WORK SHALL BE DONE IN CONFORMITY WITH THE LATEST EDITION OF ALL APPLICABLE CODES AND AUTHORITY HAVING JURISDICTION

C - ALL INFORMATION ILLUSTRATED WITHIN THESE PLANS ARE ACCORDING TO CONSTRUCTION DOCUMENTATION PROVIDED, OR INFORMATION GATHERED BY EOR TO THE BEST OF THEIR ABILITY. EOR MAKES NO REPRESENTATION FOR THE ACCURACY OF GIVEN INFORMATION AS ILLUSTRATED WITHIN DRAWINGS. INFORMATION MATERIALS, EQUIPMENT, DIMENSIONS, CONDITIONS, ETC SHALL BE FIELD VERIFIED

D - ALL WORK SHALL BE DONE IN STRICT COORDINATION AND AS APPROVED BY OWNER. ALL INTERRUPTIONS IN THE FUNCTIONING OF MECHANICAL SYSTEMS SHALL BE DONE DURING OFF-PEAK, OR UNOCCUPIED TIME (STRICTLY APPROVED BY OWNER).

E - CONTRACTOR IS RESPONSIBLE FOR COORDINATING INFORMATION REQUEST AND WORK PERFORMED. ANY REQUEST FOR INFORMATION PERTAINING TO CONFLICT OF WORK BEING PERFORMED THAT IS ILLUSTRATED ON THESE PLANS IS TO BE REFERENCED TO EOR THE MOMENT IT IS NOTICED.

F - ALL A/R GRILLES SHALL BE PROVIDED WITH PROTECTIVE CONSTRUCTION FILTERS AND A/C UNITS SHALL HAVE THEIR FILTERS REPLACED NEW ONES AT THE END OF THE CONSTRUCTION PERIOD.



Location Map Scale - No Scale

0



Parcel Map Scale - No Scale

verified on any electronic copies. 09:40:24 -04'00'

Lake City Motor Parts 🕃

This item has been electronically signed and sealed by Kyle S. Kyle McDonough Signature and date. Printed 2022.05.12

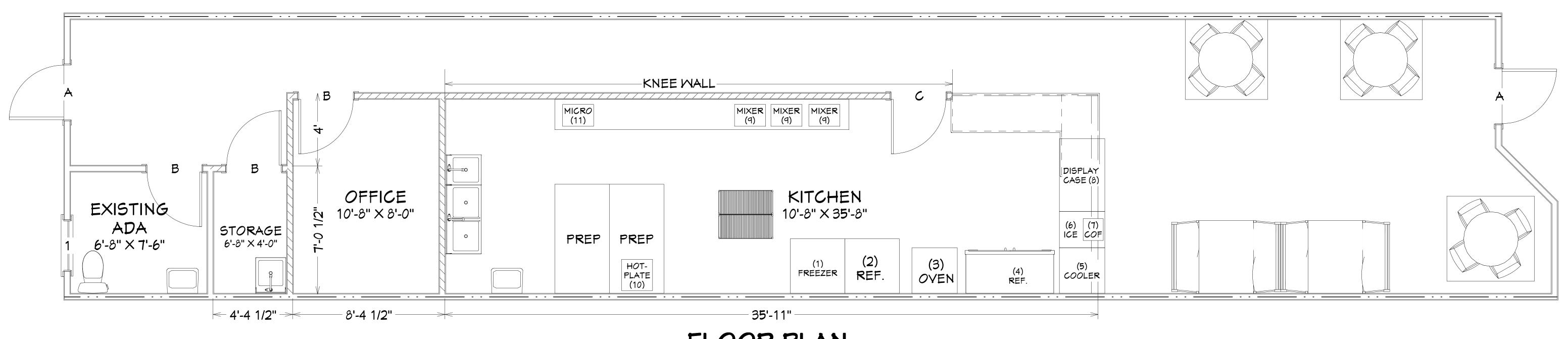
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A102



# FLOOR PLAN SCALE - 3/8" = 1'

Window Schedule - 7' Header Height						
Description:	Sym.:	Hdr.:	King/Crip.:			
21054 Fixed Glass Window	1	N/R	N/R			

Door So	chedule	
Description:	Sym.:	Hardware:
3070 Hinged Exterior Door	A	Lever
3070 Hinged Interior Door	В	Lever
3040 Hinged Interior Door	<b>C</b>	N/R (Double- Swing)

### WALL FLOOR & CEILING FINISH NOTE:

INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE-DEVELOPED INDEXES.

- CLASS A: FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450
- CLASS B: FLAME SPREAD INDEX 26-75; SMOKE DEVELOPED INDEX 0-450
- CLASS C: FLAME SPREAD INDEX 76-200; SMOKE DEVELOPED INDEX 0-450

PER 2020 FBC 7TH EDITION/TABLE 803.9 - ROOMS & ENCLOSED SPACE, ALL WALL & CEILING FINISHES SHALL BE OF "C" CLASS FINISHES

FLOOR FINISHES PER SECTION 804

- CLASS II

	Appliance Schedule
Sym.:	Make/Model & Description
1	ATOSA MBF8501GR, 27" SOLID DOOR REACH-IN FREEZER
2	ATOSA MCF8705GR, 27" GLASS DOOR REACH-IN REF.
3	MSDE-2-GG STANDARD DEPTH CONVECTION OVEN
4	54" MERCHANDISE FRIDGE
5	27" BEVERAGE COOLER
6	MANITOMOC UDE0065A NEO 20" UNDER-COUNTER ICEMAKER
7	COFFEE MAKER
8	OMCAN REFRIGERATED DISPLAY CASE MODEL 44504
9	KITCHENAID KSM8990DP COUNTER-TOP MIXER
10	WINCO EICS-18 COUNTER-TOP INDUCTION COOKER
11	SPECTRUM EMW-1000SD COMMERCIAL MICROWAVE

A103

Exit Discharge
3010 Door
34" Clear
Exit Capacity 170
TYPE:ABC

POD POD
R

TYPE:ABC

R

TYPE:ABC

FOR POD
R

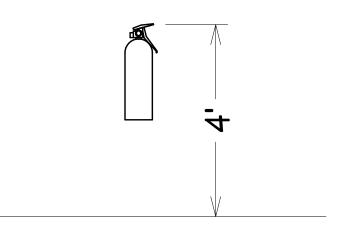
TYPE:A

LIFE SAFETY PLAN

SCALE - 3/8" = 1'

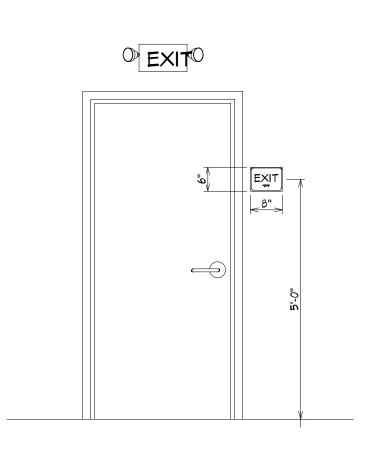
DINING	SF	MAX OCC.	SEAT COUNT		Life Safety Plan Legend Assembly Use Analysis						
Non-Fixed	289	19	19	SP	Starting Point		Project Information		ferences Used		
1 per 15 (Gross)  Staff Area						Code Requirements	±1262 S.F. UnSprinkled UnProtected	2020 FBC 7th Edition	2018 Fire Prevention Code NFPA 101		
1 per 100sf (Gross)	87	1	-	POD	Point of Decision	Occupancy Use:	Group A2 (Bakery)	303.3 - Assembly	NFPA 101.6.1.11		
Kitchen Area					Exit Sign w/ Emergency	Required Separation:	2-Hr (U-419)	508.4	NFPA 101 6.1.14.4.1 (B)		
	239	3	-	<b>—</b>	Flood Lighting & Battery Back-Up	Construction Type:	Type V-B	603			
1 per 100sf (Net)					•	Occupant Load:	23 (Max)	1004.1.2	NFPA 101 7.3.1.2		
<u>Storage</u>	267	1	-		Emergency Light Fixture w/ Battery Back-Up	Egress Midth:	68"	1005.1	NFPA 101 7.3.3.1		
1 per 300sf (Gross)					Fire Extinguisher	Max Travel Distance:	72'-1"	1017.2 (200' Allowed)	NFPA 101.37.2.6.1 (200' Allowed)		
				R	Emergency 24 Hr. Light w/ Battery Back-Up**		Bakery Eq	gress			
							Egress Width	n Doors			
					U-419: 2 hr. Wall Separatio	n	23 Occupant = 34" of Egress = 68" of Egress	Required (Min.)			
							68" / 0.2 = 340 Occ. C	apacity (Actual 23)			

"AMEREX" MODEL B500 / B500T HAND HELD
TYPE A, B, C, #5 OR EQUAL AS INDICATED
ON PLAN. (MOUNT NO MORE THAN 5'-0"
A.F.F. FROM TOP OF EXTINGUISHER TO FLOOR)
PROVIDE TYPE 'K' @ KITCHEN AREAS



## Fire Extinguisher Mounting Height

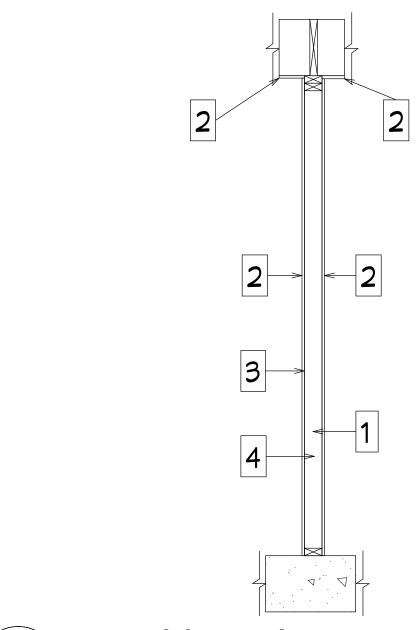
Scale - 1/2" = 1'



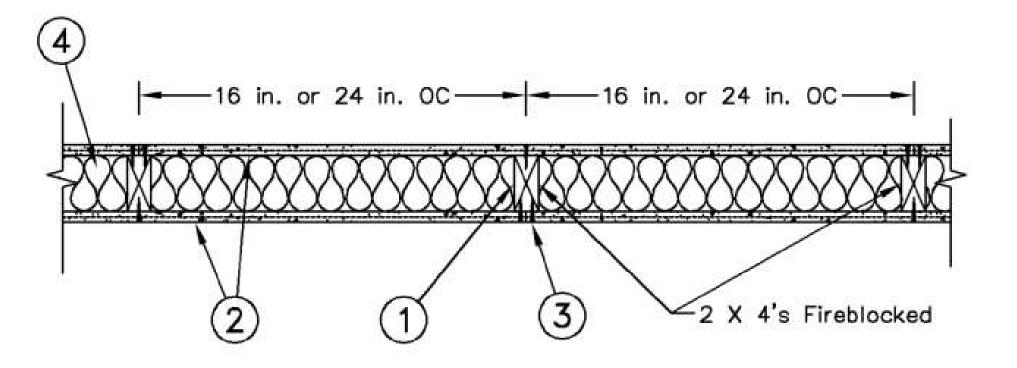
# Exit Door Signage Detail

Scale - 1/2" = 1'

\*\*Note: Fire Wall Separation to be Field Verified\*\*



Partition Fire Wall Detail Scale - 5/8" = 1'

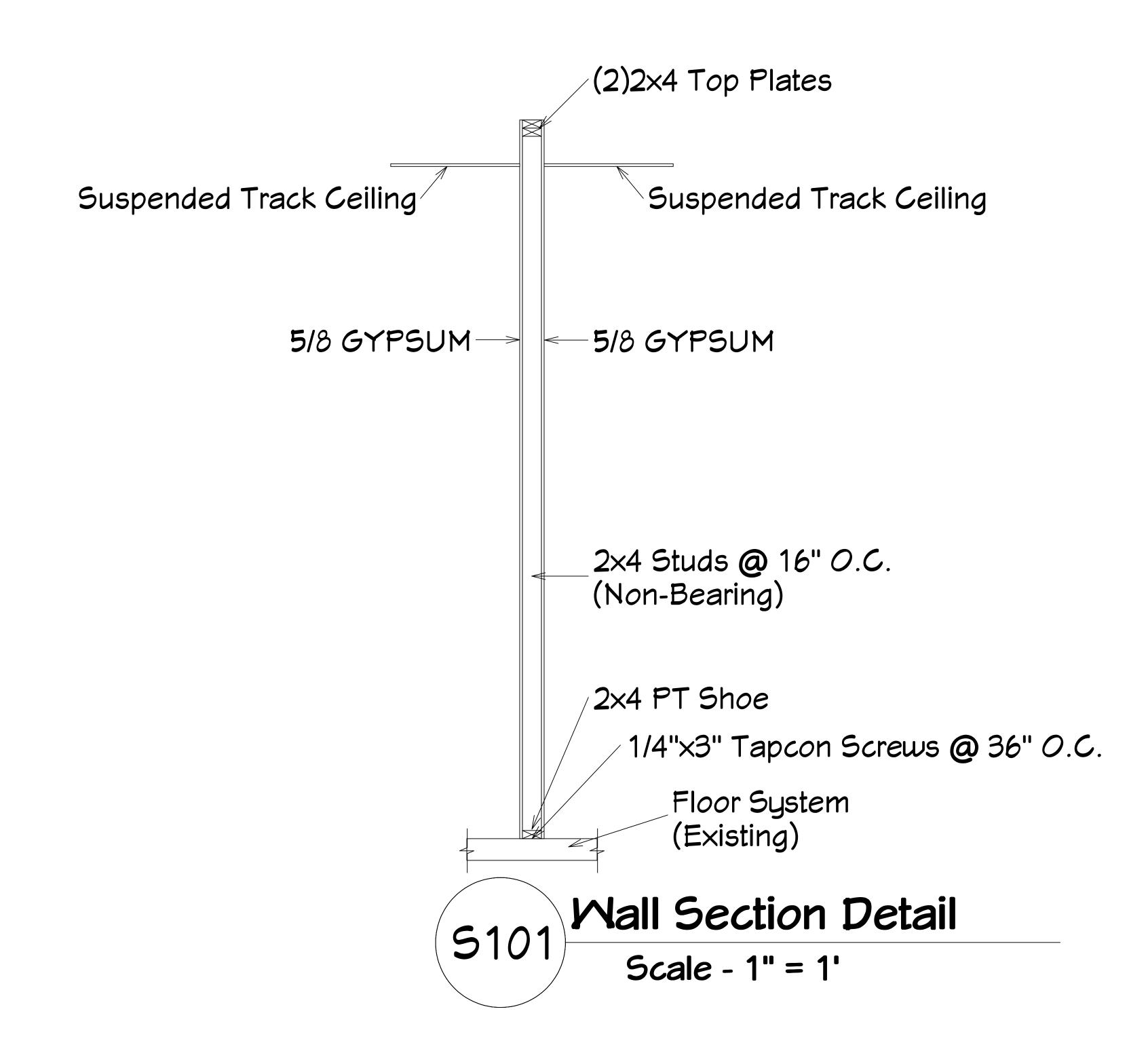


Configuration A

### Fire Wall & Ceiling Notes:

Design No.: U419 - 2hr Wall Rating, STC: 53, System Thickness: 6-1/8"

- 1. Wood Studs Nom 2x4 SYP#2, spaced 16 in. OC, effectively firestopped
- 2. Gypsum Board\* Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Vertical joints need not be staggered on opposite sides of wall. Horizontal joints of vertically applied panels need not be backed by studs. Finish rating 23 min
- 3. Joints and Screwheads Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound.
- 4. Batts and Blankets\* Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities.



		CD	LIT CVC	TC		201	1817	<u> </u>	ID	~	<u> </u>	ITI	<u> </u>	NO	1111	ıT.	<u></u>							
	SPLIT SYSTEM COOLING AIR CONDITIONING UNIT SCHEDULE																							
		MANUFACTURE	ER - CARRIER	AIR FL	LOWS		FAN	DATA				С	OOLING	COIL		INDOC	R UNIT	ELECT.	DATA	OUTDOO	r unit el	ECT. DATA	MIN.	STATUS
PLAN	NOMINAL	INDOOR UNIT	OUTDOOR UNIT	TOTAL		EXT.	TOT.	HP	TYPE		SIGN C	ONDITIO		SEN.	TOTAL	HEAT	MCA	MOCP	VOLT/	MCA	MOCP	VOLT/	SYSTEM SEER	
MARK	TONS	mybook om	GOIDOOK GIIII	CFM	CFM	SP	SP	• • • • • • • • • • • • • • • • • • • •		EDB	EWB	LDB	LWB	MBH	MBH	KW	ıor (		PHASE	WO7 (		PHASE	SEER	
AHU-1/CU-1	5	FB4CNF-060	25ACC4-60	1750	200	0.40	-	3/4	D	79	65	56	54	41.0	55.9	10	53.8	60	208/1	27.5	40	208/1	14.0	NEW
NOTES:																								

### **DESIGN CONDITIONS**

SPRING TYPE VIBRATION

AHU-1 DETAIL

- ISOLATOR, VIBRATION ELIMINATOR

2" DEEP GALVANIZED AUXILIARY DRAIN PAN WITH FLOAT SWITCH

CEILING SYSTEM

INTAKE GRILLE

EQUIPMENT MOUNTING BRACKET -

PRIMARY CONDENSATE DRAIN,

ROUTE TO DRYWELL

TYPE SNC2 OR EQUIVALENT

EXTERIOR DESIGN CONDITIONS SUMMER DRY/WET BULB 96°F/77°F WINTER DRY BULB 29°F

INTERIOR DESIGN CONDITIONS SUMMER 75°F +/- 3° 50% R.H. +/- 10% WINTER 72°F

### MECHANICAL LEGEND

RELATIVE ROOM PRESSURE - NEUTRAL

RELATIVE ROOM PRESSURE - POSITIVE

RELATIVE ROOM PRESSURE - NEGATIVE

VARIABLE AIR VOLUME TERMINAL UNIT WITH ELECTRIC HEAT

FIRE DAMPER W/ACCESS DOOR

SMOKE DAMPER W/ACCESS DOOR

H-- DUCT MOUNT HIGH LIMIT HUMIDISTAT

SUPPLY DIFFUSER

RETURN REGISTER

EXHAUST REGISTER

CEILING SUPPLY DIFFUSER

CEILING EXHAUST GRILLE/FAN

STARTING COLLAR W/DAMPER

CEILING RETURN GRILLE

TEMPERATURE SENSOR

MOTORIZED DAMPER

NORMALLY OPEN

FLEXIBLE DUCT

DUCT SMOKE DETECTOR

DUCT SMOKE DETECTOR'S AUDIBLE AND VISUAL INDICATOR

ALL THREADED ROD TO STRUCTURE

FLEX DUCT CONNECTION

AT WALL CAP

─BACKDRAFT DAMPER

(2) FLANGED ¼" X 20 NUTS

(1) ISOLATOR BUSHINGS

(1) EYELET

TYP. OF 4

-EXHAUST DUCT ROUTED TO

EXTERIOR WALL, TERMINATED

—ABOVE, TYPICAL OF 4

EXHAUST FAN MOUNTING DETAIL

THERMOSTAT

HUMIDISTAT

DRY WELL

D/DE	CEDWOE	CFM F	RANGE	MODULE	NEOK	MODEL	
TYPE	SERVICE	MIN	MAX	SIZE	NECK	MODEL	
Α	SUPPLY-CEILING	0	100	24x24	6"	TITUS - OMNI	
	and speed a popular (perspective speed	101	200	24x24	8"	TITUS - OMNI	
		201	325	24x24	10"	TITUS - OMNI	
		326	500	24x24	12"	TITUS - OMNI	
		501	700	24x24	14"	TITUS - OMNI	
		701	825	24x24	15"	TITUS - OMNI	
В	RETURN/EXHAUST	0	150	24x24	6"	TITUS 50F	
	CEILING	151	255	24x24	8"	TITUS 50F	
		256	420	24x24	10"	TITUS 50F	
		421	675	24x24	12"	TITUS 50F	
		676	825	24×24	14"	TITUS 50F	
		826	1200	24×24	16"	TITUS 50F	
		1301	3000	24x48	22"	TITUS 50F	

PROVIDE FIELD INSTALLED ELECTRIC UN-LOADER ACCESSORY FOR CONDENSING UNIT CU-1.

PROVIDE LOW-AMBIENT ACCESSORY FOR CONDENSING UNIT CU-1.

PLAN MARK

BASIC OF DESIGN

LOREN COOK 90C15DH

400

400

- DIFFUSER RUNOUT SIZE SHALL BE DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED ON
- COORDINATE COLOR OF DIFFUSERS WITH INTERIOR DESIGNER.
- PROVIDE OPTIONAL MOLDED INSULATION BLANKET R-6 FOR SUPPLY AND RETURN DIFFUSERS.

### GENERAL NOTES AND SPECIFICATIONS

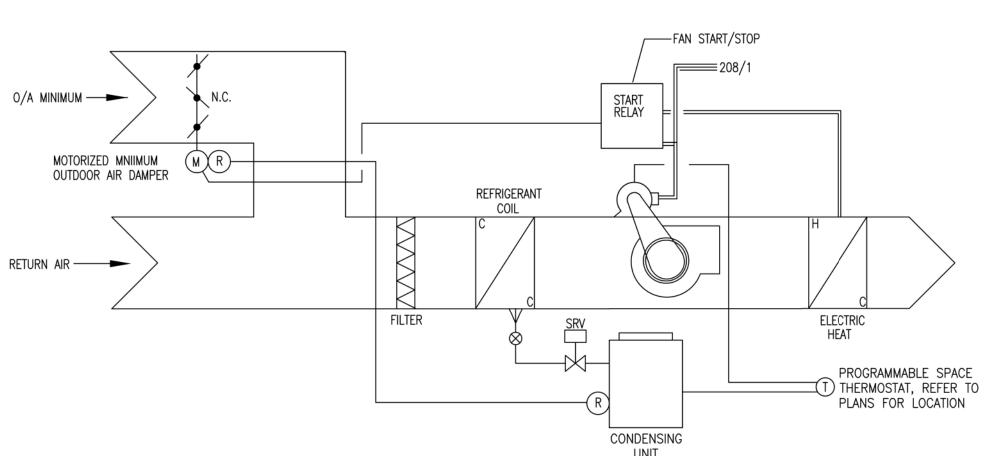
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE MECHANICAL,
- BIDDING CONTRACTORS SHALL PERFORM A SITE VISIT TO VERIFY THE BUILDING AND STRUCTURE CONDITIONS PRIOR TO PROVIDING PRELIMINARY PRICE OR ORDER OF EQUIPMENT. ALL AIR DISTRIBUTION COMPONENTS SHALL COMPLY WITH SECTION 13-410 OF THE FBCB.
- SUPPLY AND RETURN DUCTS FOR THE SPACE SHALL BE RIGID, FIBERGLASS DUCT-BOARD, 1.5 THICK, FLEXIBLE DUCTS SHALL BE R-6.5 CLASS 1, NOT EXCEED 10'. WHERE BRANCH DUCTS EXCEED 10' IN LENGTH PROVIDE ROUND SHEET-METAL DUCT EXTENSION INSULATED WITH 2" FIBERGLASS DUCT WRAP PRIOR TO TRANSITION TO FLEXIBLE DUCT.
- NEW SPLIT SYSTEMS FOR THE BUILDING SHALL BE BY CARRIER OR APPROVED EQUAL. PROVIDE 1" MEDIUM EFFICIENCY PLEATED FILTERS, SPUN-WEB THROW-AWAY TYPE NOT ACCEPTABLE, PROVIDE NEW PROGRAMMABLE THERMOSTATS, COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDER AND/OR INSTALLATION OF EQUIPMENT. TEST AND BALANCE SHALL BE BY MECHANICAL CONTRACTOR.
- PROVIDE 1 YEAR WARRANTY ON LABOR AND MATERIAL BY CONTRACTOR, AND MANUFACTURER'S WARRANTY ON EQUIPMENT.
- . ANY FIELD CHANGES AS A RESULT OF VALUE ENGINEERING SHALL BE COMMUNICATED TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO COMMENCEMENT OF VALUE ENGINEERING WORK. ENGINEERING PLAN REVISIONS REQUIRED BY BUILDING INSPECTORS TO MATCH VALUE ENGINEERING CHANGES SHALL BE COMPENSATED TO THE ENGINEER AT A NEGOTIATED AMOUNT BY THE SUB-CONTRACTOR ENACTING THE VALUE ENGINEERING CHANGE.

### AHU-1 SEQUENCE OF OPERATION

- 1. SUPPLY FAN IS ENERGIZED BY A TWO POSITION SWITCH. WHEN THE SWITCH IS CLOSED IT SHALL ENERGIZE THE SYSTEM PROVIDING POWER TO ALL COMPONENTS AND LOW VOLTAGE CONTROL TO ALL CONTROL DEVICES, AND
- OPEN THE MINIMUM OUTSIDE AIR DAMPER. 2. SYSTEM SHALL BE CONTROLLED WITH A WALL MOUNTED THERMOSTAT DEVICE CONTROLLING SPACE TEMPERATURE. THE THERMOSTAT SHALL INCLUDE OFF-AUTO-COOLING-HEATING MODES AND TIME-DAY-WEEK SCHEDULING
- CAPABILITIES. THERMOSTAT SHALL BE SET TO "AUTO" MODE. 3. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT THE COMPRESSOR/S SHALL CYCLE TO MAINTAIN ROOM TEMPERATURE SETPOINT.
- 4. THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS. WHEN THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT THE ELECTRIC HEAT SHALL ENERGIZE TO MAINTAIN ROOM TEMPERATURE SETPOINT.
- 6. THE SYSTEM SHALL IMPOSE A 30 SECOND TIME DELAY TO RESTART THE SUPPLY FAN, COMPRESSORS, AND CONDENSER FANS AFTER SYSTEM SHUT

FULL SIZE PIPE THREADED CAP WITH 1/4" Ø HOLE DRILLED IN TOP  THREADED CAP  THREADED CAP  THREADED CAP  THREADED CAP  THREADED CAP WITH 1/4" Ø HOLE DRILLED IN TOP  4" MIN.  DRAIN PAN  SLOPE TO DRAIN  ROUTE TO MOP SINK	MIN OUTSIDE AIR DUCT	ALL THREADED ROD TO STRUCTURE ABOVE, TYPICAL OF 4  SPRING TYPE ISOLATOR, VIE TYPE SNC2 O
DEPTH EQUALS UNIT STATIC PRESSURE PLUS 1" REQUIRED	BALANCING _	2" DEEP GAL
CONDENSATE DRAIN DETAIL	DAMPER FILTER	DRAIN PAN W PRIMARY CON ROUTE TO DR

NOT TO SCALE



# CONTROL SCHEMATIC - AHU-1

# INTERLOCK

1. PROVIDE BACKDRAFT DAMPER, VIBRATION ISOLATION KIT, DISCONNECT AND SPEED CONTROLLER FOR EF-1.

CEILING

FAN SCHEDULE

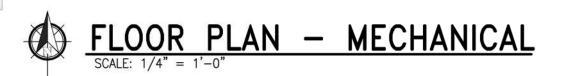
IN. WG.

0.33

STATIC PRESS. FAN

### PLAN NOTES

- (1) EXISTING CONDENSING UNIT ON CONCRETE HOUSEKEEPING



SO EVER WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF MB ENGINEERING, OR ITS ASSOCIATES, NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING SAID WRITTEN CONSENT.

FAN MOTOR VOLT/ DRIVE PHASE TYPE

| 40W | 115/1 |

OCC SENSOR

SAME AS ABOVE EXCEPT MOTION SENSOR

CEILING MOUNTED MOTION SENSOR - LOW VOLTAGE

LOW VOLTAGE POWER PACK FOR CEILING MOUNTED MOTION SENSOR

DUPLEX RECEPTACLE - 20 AMP, 120 VOLT, 3 WIRE GROUNDING, HUBBELL NO. 5352I WITH NO. P8 COVERPLATE, 18 INCH MOUNTING HEIGHT, U.N.O.

DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 20 AMP, 120 VOLT, 3 WIRE GROUNDING. HUBBELL NO. GF5352IA WITH NO. HPS1I COVERPLATE 46 INCH MOUNTING HEIGHT, U.N.O. EXTERIOR LOCATIONS SHALL BE MOUNTED AT 18" A.F.F.

DATA/TELEPHONE OUTLET - 4 INCH SQUARE JUNCTION BOX WITH 1-GANG EXTENSION RING, BLANK COVER PLATE - 18 INCH MOUNTING HEIGHT, U.N.O. PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.

JUNCTION BOX.

MOTOR, FAN, PUMP OR AIR CONDITIONING UNIT.

LIGHTING AND/OR POWER PANELBOARD.

WIRING IN CONDUIT, RUN CONCEALED ABOVE CEILING OR IN WALLS.

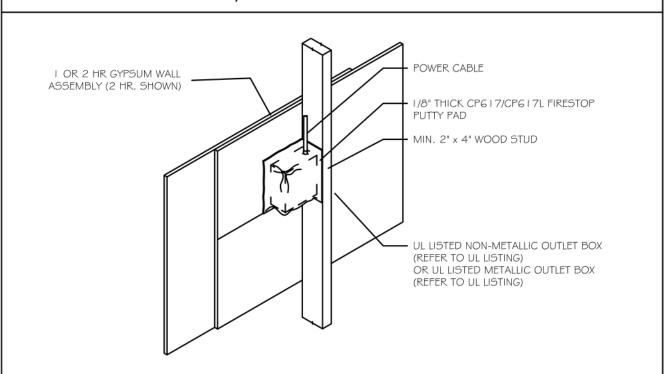
WIRING IN CONDUIT, RUN CONCEALED BELOW FLOOR. HOMERUN TO PANELBOARD - NUMBER OF ARROWS DENOTES QUANTITY OF

CIRCUITS. CROSSMARKS INDICATE QUANTITY OF NO. 12 CONDUCTORS. RUNS VOID OF CROSSMARKS ARE 1/2 INCH CONDUIT, 3 NO. 12, U.N.O. DO NOT COMBINE HOMERUNS EXCEPT AS SPECIFICALLY INDICATED ON THE PLAN.

DENOTES WEATHERPROOF - MOUNT RECEPTACLES HORIZONTALLY AND PROVIDE TAYMAC 60350 COVERPLATE, FOR SWITCHES PROVIDE TAYMAC 40110 COVERPLATE.

DISCONNECT SWITCH, "3 60/40 N3R" DENOTES 3 POLE, 60 AMPS, 40 AMPS FUSES N3R DENOTES DISCONNECT NEMA RATING.

#### WALL OPENING PROTECTIVE MATERIALS (CUV) AS TESTED TO ANSI/UL 263 10R 2 HR RATING



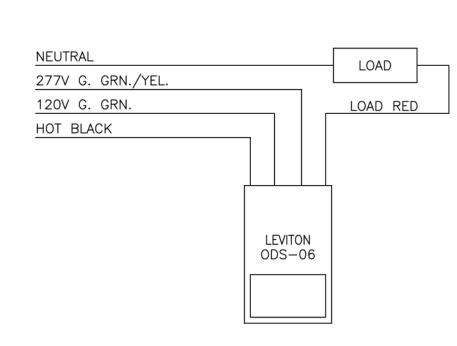
NOTE: WEHRE BOXES BACK UP TO ONE ANOTHER OR ARE VERY CLOSE TOGETHER IN THIS WALL, ADD A LAYER OF 5/8" TYPE "X" FIRECODE SCREWED TO STUD BETWEEN THEM

CP617 PUTTY PADS, FOR USE WITH MAX 4 BY 4 IN. FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH STEEL COVER PLATES IN 1 AND 2 HR. FIRE RATED GYPSUM WALLBOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. DEEP WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. MIN 1/8 IN. THICK MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SURFACES OF THE OUTLET BOX (EXCEPT FOR THE SIDE OF THE OUTLET BOX AGAINST THE STUD) AND COMPLETELY SEAL AGAINST THE STUD WITHIN THE STUD CAVITY. WHEN MOLDABLE PUTTY PAD OUTLET BOX PROTECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN OUTLET BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24 IN. PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK TO BACK.

CP617 FIRESTOP PUTTY PADS, FOR USE WITH MAX 4 BY 3-3/4 BY 3 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY CARLON ELECTRICAL PRODUCTS, MADE FROM POLYVINYL CHLORIDE, AND BEARING A 2 HR. RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFICATION FOR FIRE RESISTANCE CATEGORY IN THE FIRE RESISTANCE DIRECTORY. PUTTY PADS AND BOXES FOR USE IN 1 AND 2 HR FIRE RATED GYPSUM WALLBOARD ASSEMBLIESM, FRAMED WITH MIN 3-1/2 IN. DEEP WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. OUTLET BOX SECURED TO WOOD STUD BY MEANS OF TWO NAILING TABS SUPPLIED WITH THE OUTLET BOX. MIN 1/8 IN. THICK MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SEAL AGAINST THE STUD WITHIN THE STUD CAVITY. OUTLET BOXES INSTALLED WITH STEEL OR PLASTIC COVER PLATES. WHEN MOLDABLE PUTTY PAD OUTLET BOX PROETECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24 IN. PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK TO BACK

CP617 FIRESTOP PUTTY PADS, FOR USE WITH MAX 2-1/4 BY 3-3/4 BY 2-1/4 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY PASS AND SEYMORE INC., AND BEARING A 2 HR. RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFICATION FOR FIRE RESISTANCE CATEGORY IN THE FIRE RESISTANCE DIRECTORY. PUTTY PADS AND BOXES FOR USE IN 1 AND 2 HR FIRE RATED GYPSUM WALLBOARD ASSEMBLIESM, FRAMED WITH MIN 3-1/2 IN. DEEP WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. OUTLET BOX SECURED TO WOOD STUD BY MEANS OF TWO NAILING TABS SUPPLIED WITH THE OUTLET BOX. MIN 1/8 IN. THICK MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SEAL AGAINST THE STUD WITHIN THE STUD CAVITY. OUTLET BOXES INSTALLED WITH STEEL OR PLASTIC COVER PLATES. WHEN MOLDABLE PUTTY PAD OUTLET BOX PROETECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24 IN. PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK TO BACK

CP617 FIRESTOP PUTTY PADS, FOR USE WITH MAX 4 BY 3-3/4 BY 3 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY ALLIED MOLDED PRODUCTS, INC., MADE FROM FIBER REINFORCED THERMOPLASTIC AND BEARING A 2 HR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFICATION FOR FIRE RESISTANCE" CATEGORY IN THE FIRE RESISTANCE DIRECTORY. PUTTY PADS AND BOXES FOR USE IN 1 HR FIRE RATED GYPSUM WALLBOARD ASSEMBLIESM, FRAMED WITH MIN 3-1/2 IN. DEEP WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. OUTLET BOX SECURED TO WOOD STUD BY MEANS OF TWO NAILING TABS SUPPLIED WITH THE OUTLET BOX. MIN 1/8 IN. THICK MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SEAL AGAINST THE STUD WITHIN THE STUD CAVITY. OUTLET BOXES INSTALLED WITH STEEL OR PLASTIC COVER PLATES. WHEN MOLDABLE PUTTY PAD OUTLET BOX PROETECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24 IN. PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK TO BACK



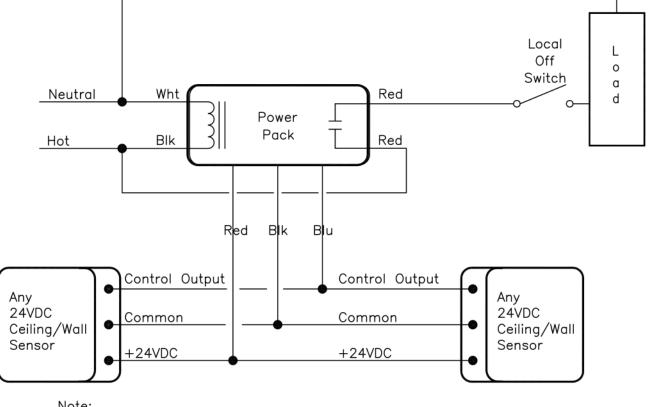
OCCUPANCY DETECTOR WIRING DIAGRAM

NOTES:

- 1. THIS DIAGRAM AND ALL PART NUMBERS ARE BASED ON "LEVITON" PRODUCTS.
- 2. PROVIDE SENSORS IN ALL ROOMS AS REQUIRED BY FBC 13-415.1

NOT TO SCALE EDLC\_WS57001B

LIGHTING CONTROL DETAIL



Maximum number of sensors per power pack depends on the model of sensor. See the product data sheet to determine the specific current consumption of each sensor.

Multiple Occupancy Sensors Using One Power Pack

NOT TO SCALE

#### ING LIGHTING CONTROL DETAIL NOTES:

- 1. THIS DIAGRAM AND ALL PART NUMBERS ARE BASED ON
- "WATTSTOPPER" PRODUCTS. 2. PROVIDE SENSORS IN ALL ROOMS AS REQUIRED BY FBC 13-415.1

### ELECTRICAL SPECIFICATIONS:

- 1. VERIFY ALL EQUIPMENT CIRCUIT BREAKER SIZES PRIOR TO ORDERING GEAR THE INSTALLATION SHALL COMPLY WITH ALL LOCAL, STATE, COUNTY LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL INSTALLATIONS, AND WITH THE REGULATIONS OF THE NFPA WHERE SUCH REGULATIONS DO NOT CONFLICT WITH THOSE LAWS. OBTAIN ALL PERMITS AS REQUIRED.
- 2. NOTIFY THE ARCHITECT/OWNER/BUILDER OF ANY IMPACT FEES REQUIRED BY THE COUNTY OR LOCAL UTILITY CO.
- 3. ALL MATERIALS, EQUIPMENT AND APPARATUS SHALL BE NEW, OF CURRENT MANUFACTURE AND SHALL BEAR THE SEAL OF APPROVAL OF THE UNDERWRITERS LABORATORIES. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT APPERANCE WHEN COMPLETED.
- 4. FURNISH AND INSTALL ALL EQUIPMENT NECESSARY FOR TEMPORARY LIGHTING AND POWER FOR ENTIRE JOB SITE. ENERGY COST PAID BY OTHERS.
- 5. IN GENERAL, THE CONDUIT INSTALLATION SHALL FOLLOW THE LAYOUT SHOWN ON THE PLANS. THIS LAYOUT IS HOWEVER DIAGRAMMATIC ONLY, AND WHERE CHANGES ARE NECESSARY DUE TO STRUCTURAL CONDITIONS, OTHER APPARATUS OR OTHER CAUSES, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. IT IS RECOGNIZED THAT BRANCH CIRCUIT ROUTING SHOWN ON THE DRAWINGS MAY NOT ALWAYS BE THE MOST ECONOMICAL OR THE MOST FEASIBLE METHOD. ROUTING MAY BE CHANGED BY THE CONTRACTOR AND INSTALLED PER THE LATEST NEC.
- 6. ALL CONDUCTORS SMALLER THAN 3/0 SHALL BE COPPER THHN WITH NOT LESS THAN 98% CONDUCTIVITY. CONDUCTORS 10-14 MAY BE SOLID OR STRANDED
- 7. ALL RECEPTACLE CIRCUITS SHALL BE SEPERATE FROM LIGHTING CIRCUITS. ALL NON-LINEAR LOADS SHALL HAVE A SEPERATE NUETRAL WIRE FOR EACH CIRCUIT.
- 8. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY CATALOG NUMBERS IN THE FIXTURE SCHEDULE TO ENSURE IT MATCHES THE DESCRIPTION GIVEN AND FOR PROPER CEILING MOUNTING, REQUIRED ACCESSORIES, ETC.
- 9. ALL CONDUIT AND BOXES PASSING THROUGH OR INSTALLED WITHIN FIRE WALLS AND SMOKE WALLS SHALL BE INSTALLED SO AS TO MAINTAIN THE INTEGRITY OF THE WALL THROUGH WHICH IT PASSES. BOXES TO BE INSTALLED WITH 1/8" OF WALL SURFACE.
- 10. THE CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED BY HIM UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL REPLACE, WITHOUT ADDITIONAL CHARGE, ALL WORK OR MATERIAL WHICH MAY DEVELOP DEFECTS, ORDINARY WEAR AND TEAR OR DAMAGE RESULTING FROM IMPROPER HANDLING EXCEPTED, WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF FINAL INSPECTION AND ACCEPTANCE FROM THE ARCHITECT OR OWNER. BALLASTS SHALL BE INCLUDED BUT LAMPS SHALL BE EXCLUDED.

		LIC	SHTING FIXTURE	<u> </u>	1 <u>LU</u>	UΙ		
TYPE	FIXTURE DESCRIPTION	N	IANUFACTURER AND CATALOG NO.	VOLT	INPUT VA	NO.	LAMP TYPE	REMARKS
Α	2X4 LAY IN LED	COOPER	24FP6440C	120	62	_	4000K LED	_
В	2X2 LAY IN LED	COOPER	22FP4240C	120	32	-	4000K LED	
$\bigcirc$	6" RECESSED CAN LED	COOPER	RL560WH12935/H750ICAT	120	12	_	3500K LED	=
О	STRIP LIGHT LED	COOPER	4WSL-LD2-60-SRS-UNV-L840-CD1-U	120	56	_	4000K LED	=
EM1	EMERGENCY LIGHT INTERIOR	COOPER	APEL	120	1.5	-	LED	_
ΕX	EXIT/EMERGENCY COMBO LIGHT	COOPER	APC7R	120	1.5	_	LED	_
F	SURFACE MOUNTED LED	BARN LIGHT	BLE-F-WHS16-XXX-FM-NA-WGG-FST-NA-E26	120	12	_	4000K LED	PROVIDE LED LAMP
G	WALL PACK LED	COOPER	XTOR3B-W-XX	120	26	_	4000K LED	_
Р	PENDANT LIGHT LED	BARN LIGHT	BLE-C-WHS12-SBK-NA-FST-NA-LED16-3000K	120	16	_	3000K LED	_

### Recp. Power Pack Controlled Receptacle OPTIONAL Control Output CONTROL NOTE 5 24VDC Ceiling/Wa Sensor +24VDC

Maximum number of sensors per power pack depends on the model of sensor. See the product data sheet to determine the specific current consumption of each sensor.

LGT/RECEPTACLE CONTROL DETAIL

NOT TO SCALE

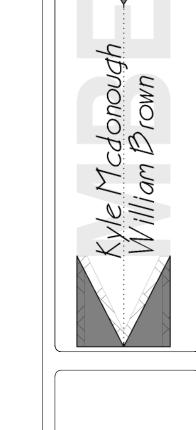
- 1. PROVIDE VACANCY SENSOR IN LOCATIONS INDICATED. INSTALL IN ALL OFFICE LOCATIONS PER ASHRAE 90.1
- 2. CONTRACTOR TO ADJUST SENSITIVITY LEVEL BASED ON ROOM SIZE AND FURNITURE LAYOUT, SET TIME OUT ON SENSOR TO 12 MIN. (ALL SENSORS MUST BE FIELD ADJUSTED, DONT INSTALL WITH FACTORY SETTING) PROVIDE SENSOR MASKING KIT AS REQUIRED
- 3. PROVIDE 20A., 24 VOLT RELAY IN AREAS INDICATED TO AUTOMATICALLY DISCONNECT 120 VOLT RECEPTACLE POWER WHEN NO OCCUPANCY IS DETECTED. RELAY SHALL BE MANUFACTURED BY SAME MANUFACTURER AS THE POWER PACK TO INSURE COMPATIBLE VOLTAGE AND POWER RATING REQUIRED TO CONTROL RECEPTACLE AS INDICATED
- 4. PROVIDE DUPLEX RECEPTACLES IN AREAS INDICATED WITH HALF-SWITCHED OUTLETS. OUTLETS SHALL EACH HAVE A PERMANENT LABEL INDICATING TOP HALF OF RECEPTACLES ARE CONTROLLED.
- 4. OPTIONAL LOW VOLTAGE WALL SENSOR CAN BE USED IF CEILING SENSOR IS NOT REQUIRED FOR ROOM COVERAGE. DELETE LOCAL SWITCH BETWEEN LGT RELAY PACK AND LGT. LOAD.

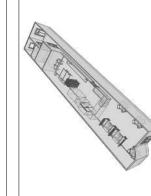
### **GENERAL NOTES:**

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY CATALOG NUMBERS IN THE FIXTURE SCHEDULE TO ENSURE IT MATCHES THE DESCRIPTION GIVEN AND FOR PROPER CEILING MOUNTING, REQUIRED ACCESSORIES, ETC.
- 2. CONNECT EXIT LIGHTS AND EMERGENCY BALLASTS OF FIXTURES DENOTED AS EMEGENCY TO UNSWITCHED LIGHTING CIRCUIT
- 3. SEE ARCHITECTURAL CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.
- 4. EXAMINE EXISTING CONDITIONS PRIOR TO BID AND COMPARE WITH NEW WORK. REPORT ANY OBSERVED DESCREPANCIES.
- INTERLOCK EXHAUST FAN WITH RESPECTIVE AHU. PROVIDE REQUIRED #12 WIRE IN CONDUIT. SEE MECHANICAL DRAWINGS, FAN SCHEDULE, FOR INTERLOC
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE ADEQUATE WORKING SPACE IN FRONT OF ALL PANELBOARDS, MOTOR STARTERS AND FUSED DISCONNECT SWITCH. WORKING SPACE SHALL BE CLEAR OF PIPES AND DUCTS. ANY CODE VIOLATION AS A RESULT OF LACK OF COORDINATION SHALL BE RECTIFIED AT NO COST TO OWNER.
- 7. LOAD CALCULATION/ TOTAL CONNECTED LOAD SHOWN AT BOTTOM OF PANEL SCHEDULES.
- 8. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE.

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#### SCHEDULE OF BRANCH CIRCUIT PANEL "EP1" MAIN: 125 AMP MLO:125 MCB: NO VOLTAGE: 120/240V, 3C 3M SPEC: EXISTING GRND BUS: YES LOCATION: EXISTING TENANT SPACE MOUNTING: SURFACE FED FROM: METER CENTER DESCRIPTION MIRE TRIP CKT. DESCRIPTION COND. MIRE GND TRIP COND. GND NOTES KVA KVA EXTERIOR LIGHTING 20 HVAC - EXISTING #12 EXHAUST FANS LIGHTING - EXISTING LIGHTING EXISTING EXIT LIGHTING #12 RECEPTAGLES - EXISTING **#12** RECEPTACLES EXISTING TANKLESS M/H 10 #12 1/2" REFRIGERATOR & FREEZEZR (#1 & #2) #12 15 1.5 #12 20 COOLER & BEVERAGE (#4 & #5) 1/2" 1.0 20 #12 1/2" 1.5 COFFEE MAKER (#7) ICE MAKER & DISPLAY (#6 & #8) 20 #12 21 1/2" 1.0 22 (3) MIXERS (#9) #12 1/2" 20 #12 23 1.5 24 20 26 INDUCTION COOKER (#10) #12 1/2" 1.5 #12 28 #12 1/2" 1.5 MICROMAYE (#11) 30 KITCHEN RECEPTACLES (GENERAL) 1.0 32 CONVECTION OVEN (#3) #4 #6 34 OFFICE/STORAGE RECEPTACLES #12 #12 20 35 36 1/2" 1.0 37 38 39 40 36.8 TOTAL KYA

#### **Electrical Load Calculation**

Panel - "EP-1"

Brittany's Cupcakes

Existing Service Size: 125-amp 230/240 Volt 1 Phase 3 Wire

1262 +/-Total sf

### **Existing Load Allowances**

Fluorescent Areas(A)	= 2000 VA
EM Lighting (EM/EH)	= 1000 VA
Exit Lighting	= 2 VA
Receptacles	= 3000 VA

#### New Receptacles

725 VA + 242 VA	966 x 100% =	966 VA
840 VA + 840 VA	1680 x 100% =	1680 VA
1800 VA	1800 x 100% =	1800 VA
610 VA + 782 VA	1392 x 100% =	1392 VA
504 VA x 3	1512 x 100% =	1512 VA
1800 VA	1800 x 100% =	1800 VA
1440 VA	1440 x 100% =	1440 VA
12000 VA	12000 x 100% =	12000 VA
10 x 360 VA =	3600 x 100% =	3600 VA
5 x 360 VA =	1800 x 100% =	1800 VA
	840 VA + 840 VA 1800 VA 610 VA + 782 VA 504 VA x 3 1800 VA 1440 VA 12000 VA 10 x 360 VA =	840 VA + 840 VA

Special Loads

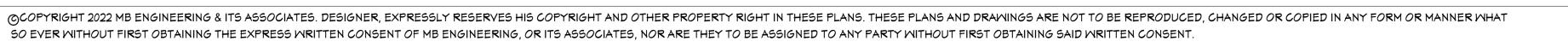
10000 x 100% = 10000 VA Water Heater 1 x 10000 VA =

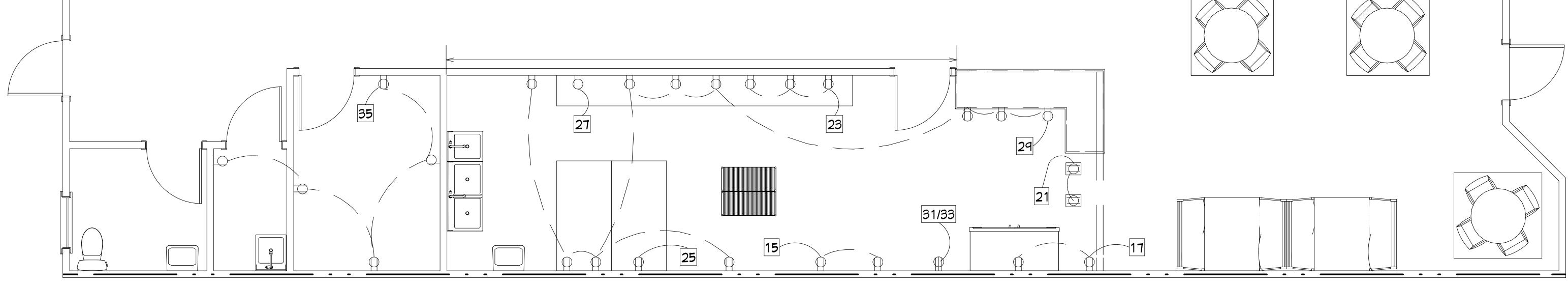
> Total Load 43992 VA

240/1.73 = 415 43992/415 = 106 Amps

\* ASTERIK MEANS WE DID NOT RECEIVE APPLIANCE INFORMATION, LOADS ARE BASED ON ALLOWANCE

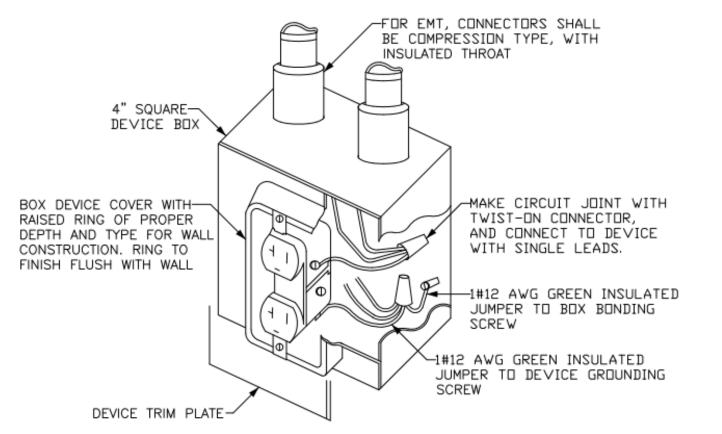
\*\*NOTE: EXISTING ALLOWANCE TABULATIONS ARE BASED ON BEST OBSERVATION FROM INFORMATION PROVIDED. IF ANY ISSUES ARE ERADICATED DURING FIELD INSTALL/IMPLEMENTATION PLEASE NOTIFY EOR IMMEDIATELY FOR FURTHER INSTRUCTION\*\*





# POWER FLOOR PLAN

SCALE - 3/8" = 1'



TYPICAL DUPLEX RECEPTACLE INSTALLATION

### PLUMBING LEGEND

PLUMBING FIXTURE SCHEDULE

**FIXTURE** 

WC-1 WATER CLOSET, ADA

L-1 <u>LAVATORY</u>, ADA

MS MOP SINK

FD <u>FLOOR DRAIN</u>

HS <u>HAND SINK</u>

IB <u>ICE BIN</u>

S-1 <u>3-COMPARTMENT SINK</u>

CONNECTION.

IM <u>ICEMAKER AND FILTER BANK ASSEMBLY</u>

AND COLD WATER MIXING

DESCRIPTION

16-1/2" HEIGHT, ELONGATED TOILET. VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, TANK TYPE, LOW CONSUMPTION 1.6 GPF.

SEAT: EXTRA HEAVY DUTY PLASTIC, OPEN FRONT SEAT LESS COVER

WALL HUNG LAVATORY, VITREOUS CHINA, FAUCET HOLES ON 4"

FAUCET: 4" CENTERSET CAST BRASS FAUCET, SINGLE LEVER HOT

TEMPERED WATER: PROVIDE WATER TEMPERATURE LIMITING DEVICE (THERMOSTATIC MIXING VALVE) THAT CONFORMS TO ASSE 1070 PER

STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE

ANGLED STOP, CHROME PLATED STEEL FLANGE AND 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS. GRID DRAIN WITH OFFSET

ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED

DUCO CAST IRON BODY AND FLASHING COLLAR WITH SLOTTED SEDIMENT BUCKET, 12" SQUARE NICKEL BRONZE TOP. PROVIDE 1/2" TRAP PRIMER

12" SQUARE X 6" DEEP SANITARY FLOOR SINK WITH WHITE PORCELAIN | FD2375-NH3

MOUNT AT HANDICAPPED HEIGHT, PROVIDE BLOCKING IN WALL

WITH CONCEALED CHECK AND STAINLESS STEEL HINGE POST.

ACCESSORIES: HEAVY DUTY WAX BOWL RING. WAX GASKET FOR

SETTING ANY FLOOR TYPE WATER CLOSET BOWL.

TAILPIECE AND CHROME PLATED P-TRAP

CAST IRON 1/2 GRATE, ABS DOME STRAINER.

SUPPLY LAV-GUARD INSULATION KIT.

FOR MOUNTING OF LAVATORY

SEAT INSTALLED MIN. 18" FROM FINISH FLOOR TO TOP OF SEAT

WASTE CW HW

1-1/4" |1/2" |1/2"

MANUFACTURER

KOHLER K-3979

CHURCH OLSONITE

OATEY 31190

MANUFACTURING

MODEL#102G

PROVIDED BY OTHERS. INSTALLED

BY CONTRACTOR.

PROVIDED OTHERS.

PROVIDED OTHERS. INSTALLED BY

PROVIDED OTHERS.

INSTALLED BY CONTRACTOR.

PROVIDED OTHERS.

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CONTRACTOR.

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CONTRACTOR.

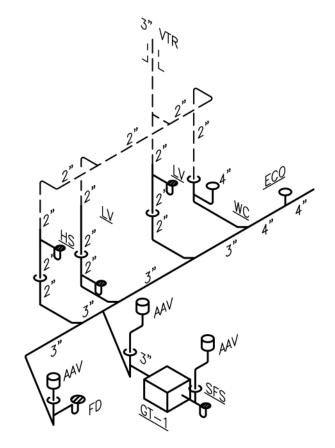
ABBREV	NATIONS & SYMBOLS:	PLUMBING FIXTUI	RES:
$\dashv$	WALL CLEAN OUT	FD	FLOOR DRAIN
O A/C	FLOOR CLEAN OUT ABOVE CEILING	WH	WALL HYDRANT
AP	ACCESS PANEL	НВ	HOSE BIBB
B/G	BELOW GROUND	L	LAVATORY
B/F	BELOW FLOOR	MS	MOP SINK
BFP	BACK FLOW PREVENTER	S	SINK
EX. HD	EXISTING HUB DRAIN	SA-A	SHOCK ARRESTOR — P.P.I SIZE
VTR TP	VENT THROUGH ROOF TRAP PRIMER	SS	SERVICE SINK
WH	WATER HEATER	TMV	THERMOSTATIC MIXING VALVE
FW	FILTERED WATER	UR	URINAL
COOG WCO	CLEANOUT ON GRADE WALL CLEANOUT	WC	WATER CLOSET
FCO	FLOOR CLEANOUT	WB	WASHER BOX
	POINT OF CONNECTION -	TMV	THERMOSTATIC MIXING VALVE
•	NEW WORK TO EXISTING	GI	GREASE INTERCEPTOR

#### PIPING & VALVES:

	NEW SANITARY (S) NEW COLD WATER (CW) HOT WATER (110°F)	BALL VALVE BUTTERFLY VALVE GATE VALVE
140*	HOT WATER (140°F) NEW GREASE WASTE (GW) NEW VENT (V) EXISTING SANITARY (S) EXISTING COLD WATER (CW) EXISTING HOT WATER (HW)	GLOBE VALVE STRAINER  PIPE UNION CHECK VALVE  ASME PRESSURE/TEMPERATURE RELIEF VALVE TEMPERED WATER MIXING VALVE PIPE UP PIPE DOWN SHOCK ARRESTOR

### PLUMBING GENERAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE - PLUMBING, NFPA 70, NFPA 101, AND THE AMERICAN DISABILITIES ACT (ADA).
- 2. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING AND ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
- 3. SLEEVE AND FIRE STOP PENETRATIONS OF RATED WALLS, FLOORS, CEILINGS AND ROOFS. FLASH AND COUNTERFLASH ROOF PENETRATIONS.
- 4. PROVIDE SIX SETS (GC DETERMINE EXACT QUANTITY) OF SHOP DRAWINGS OF PLUMBING FIXTURES, PIPING MATERIALS/FITTINGS, INSULATION, VALVES, AND EQUIPMENT FOR REVIEW BY ENGINEER OF RECORD. SHOP DRAWINGS SHALL BE ASSEMBLED BY THE CONTRACTOR IN A BOUND BOOKLET AND BE COMPLETE INCLUDING ALL ITEMS REQUIRED IN THE PLUMBING CONTRACT. IN-COMPLETE BOOKLETS PUT TOGETHER BY A FIXTURE MANUFACTURER WILL BE REJECTED AND
- 5. PLUMBING SERVICE ROUTING IS BASED ON SITE LIMITED SITE VISIBILITY, AS NO AS-BUILT DRAWINGS EXIST FOR THE FACILITY. PLUMBING CONTRACTOR TO DETERMINE SITE SPECIFIC SERVICE ROUTING AND SERVICE FLOW PRIOR TO TIE-IN AND NEW SERVICE LAYOUT.



RISER DIAGRAM -GREASE WASTE AND SANITARY

FLOOR PLAN — PLUMBING

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