GENERAL PLUMBING NOTES

I. GENERAL REQUIREMENTS:

1. PLUMBING CONTRACTOR IS TO FURNISH & PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS, & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
2. ALL WORK IS TO BE PERFORMED IN ACCORDANCE W/ 2017 FLPC & ALL OTHER APPLICABLE CODES. P.C. IS TO COORDINATE W/ G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.
3. ALL PLUMBING FIXTURES & PLUMBING SYSTEM EQUIPMENT SHALL BE PROVIDED COMPLETE W/ ALL ACCESSORIES, HANGERS, VALVES, STOPS, TAILPIECES, TRAPS, FAUCETS, STRAINERS, ETC. REGARDLESS OF PRESENCE ON PLANS. SEE FIXTURE SCHEDULE.
4. ALL EQUIPMENT, MATERIALS, & INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE W/ THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER. EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT.
5. THESE DRAWINGS ARE DIAGRAMMATIC & SHOW GENERAL LOCATION & ARRANGEMENT OF ALL MATERIALS & EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION & ALL OTHER WORK WILL PERMIT.
6. DO NOT SCALE DRAWINGS FOR MEASUREMENT.
7. INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT & MANUFACTURER'S MODEL NUMBER. IF CONFLICT IS PRESENT BETWEEN DESCRIPTION & MODEL NUMBER, EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENT. IN CASE OF CONFLICT BETWEEN THE PLANS & NOTES/ SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
8. BEFORE BID P.C. IS RESPONSIBLE FOR CLARIFYING W/ G.C. ANY CONFUSION IN REGARDS TO RESPONSIBILITY OF WORK TO BE PERFORMED OR MATERIALS TO BE PROVIDED. THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY & COMPLETELY THE SCOPE OF THE WORK INVOLVED, & HAS INCLUDED ON THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK.
9. AS SOON AS POSSIBLE (& NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED, THE P.C. SHALL PROVIDE SUBMITTALS OF PLUMBING EQUIPMENT HE/SHE INTENDS TO PURCHASE FOR REVIEW & COMMENT BY THE ENGINEER. ENGINEER IS TO APPROVE SUBMITTALS BEFORE EQUIPMENT IS ORDERED.
10. ALL QUESTIONS MUST BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT & MUST BE ADDRESSED BY THE APPROPRIATE DESIGNER OF RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER.
11. P.C. IS TO REVIEW COMPLETE DRAWING SET. P.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN & WORK IMPLIED. UNLESS OTHERWISE NOTED, FINAL PLUMBING CONNECTION TO ALL EQUIPMENT, FIXTURES, ETC. IS THE RESPONSIBILITY OF THE P.C..

II. DIVISION OF WORK:

1. ALL ROOF PENETRATIONS, FLASHING, ETC. ARE TO BE PERFORMED BY ROOFING CONTRACTOR.
2. ALL LOW VOLTAGE WIRING RELATED TO PLUMBING EQUIPMENT & SYSTEMS IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. ALL HIGH VOLTAGE CONNECTIONS TO PLUMBING EQUIPMENT, INCLUDING DISCONNECTS, TO BE PROVIDED & INSTALLED BY E.C.
3. G.C. TO BE RESPONSIBLE FOR PROVIDING & INSTALLING ANY ACCESS DOORS RELATED TO PLUMBING SYSTEM (W/ EXCEPTION OF CLEANOUT COVERS, BY P.C.). P.C. RESPONSIBLE FOR COMMUNICATING TO G.C. SIZE & LOCATION OF REQUIRED ACCESS DOOR(S).
4. PLUMBING CONTRACTOR IS TO EMPLOY THE SERVICES OF THE G.C. FOR CUTTING & PATCHING OF WALLS, FLOORS, & CEILINGS RELATED TO THE INSTALLATION OF PLUMBING EQUIPMENT & SYSTEMS.
5. G.C. TO BE RESPONSIBLE FOR PROVIDING & INSTALLING ANY WATER HEATER PLATFORMS, EITHER FLOOR/WALL MOUNTED OR SUSPENDED. P.C. TO COMMUNICATE REQUIREMENTS TO G.C.

III. MATERIALS:

1. ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED.
2. ALL MATERIALS INSTALLED IN RETURN PLENUM ARE TO BE PLENUM RATED.
3. PIPING MATERIALS & FITTINGS SHALL BE AS FOLLOWS:
   WASTE & VENT (ABOVE & BELOW SLAB):
   PVC PIPE, PVC SOCKET FITTINGS, & SOLVENT-CEMENTED FITTINGS.
   DOMESTIC WATER (BELOW SLAB):
   TYPE 'K' COPPER.
   OR
   CONTINUOUS PEX.
   DOMESTIC WATER (ABOVE SLAB):
   TYPE 'L' COPPER W/ SWEATED SOCKET FITTINGS. THREADED FITTINGS MAY BE USED AT VALVES, FIXTURES, & SIMILAR.
   OR
   CPVC PIPING W/ SOLVENT-CEMENTED FITTINGS. THREADED FITTINGS MAY BE USED AT VALVES, FIXTURES, & SIMILAR. PROVIDE PLENUM WRAP IF USED IN RETURN PLENUM.
   OR
   PEX PIPING W/ FLARED OR MECHANICAL JOINTS/FITTINGS. DO NOT USE IN RETURN PLENUMS. DO NOT USE IN EXPOSED AREAS.
   STORM PIPING (ABOVE---BELOW SLAB):
   PVC PIPE, PVC SOCKET FITTINGS, & SOLVENT-CEMENTED FITTINGS.
4. FOR AUTOMATIC-CIRCULATING HOT WATER SYSTEMS, PIPING SHALL BE INSULATED W/ 1" OF INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU•IN/HR x FT² x °F. THE FIRST 8' OF PIPING IN NON-CIRCULATING SYSTEMS SERVED BY EQUIPMENT W/OUT INTEGRAL HEAT TRAPS SHALL BE INSULATED W/ 0.5" OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU•IN/HR x FT² x °F. (2017 FLECC C404.4) ALL CIRCULATING SERVICE HOT WATER PIPING SHALL BE INSULATED TO AT LEAST R-2. CIRCULATING HOT WATER SYSTEMS SHALL INCLUDE AN AUTOMATIC OR READILY ACCESSIBLE MANUAL SWITCH THAT CAN TURN OFF THE HOT WATER CIRCULATING PUMP WHEN THE SYSTEM IS NOT IN USE. (2017 FLECC R403.5)
5. PROVIDE HANGERS & SUPPORTS APPROVED FOR USE BY 2017 FLPC.
6. ANY PLUMBING FIXTURES W/ A COMMON SHUT-OFF VALVE (I.E. PRE-RINSE, KITCHEN SINK, MOP SINK) ARE TO INCLUDE A CHECK VALVE ON THE HOT & COLD WATER VALVES TO PREVENT INTERCONNECTION OF HOT & COLD WATER LINES.

IV. COORDINATION:

1. BEFORE BEGINNING WORK, INVERT ELEVATIONS SHALL BE ESTABLISHED. P.C. IS TO ENSURE PROPER SLOPES OF ALL WASTE & STORM PIPING CAN BE MAINTAINED. CONTACT ENGINEER IMMEDIATELY IF PROBLEM/ISSUE IS DISCOVERED.
2. P.C. TO COORDINATE LOCATION OF ALL ROOF PENETRATIONS W/ ROOFING CONTRACTOR & MECHANICAL CONTRACTOR. P.C. & M.C. TO COORDINATE TO ENSURE NO PLUMBING VENTS ARE LOCATED WITHIN 10' OF ANY OUTSIDE AIR INTAKES.
3. P.C. TO COORDINATE W/ G.C. & ARCH PLANS TO ENSURE NECESSARY BACKING/SUPPORTS ARE INSTALLED TO ALLOW INSTALLATION OF PLUMBING FIXTURES.
4. THE PLUMBING CONTRACTOR SHALL COORDINATE CLOSELY W/ ALL OTHER TRADES TO AVOID CONFLICT & ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE PLUMBING WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF OPENINGS, ELECTRICAL CONNECTIONS, ETC.)
5. PIPING SHOULD BE COORDINATED W/ ALL STRUCTURAL FOOTINGS & FOUNDATIONS. PIPE SHOULD BE OFFSET TO AVOID CONTACT W/ FOOTINGS & FOUNDATION WALLS. IF PIPING MUST RUN UNDERNEATH A FOOTING OR THROUGH A FOUNDATION WALL, THE PIPE MUST BE INSTALLED W/ A RELIEVING ARCH OR IN A PIPE SLEEVE.
6. P.C. TO REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.

V. EXECUTION:

1. P.C. TO FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING PLUMBING EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS & CLEARANCES ARE MAINTAINED. IF CONFLICT EXISTS BETWEEN THESE PLANS & MANUFACTURER'S INSTRUCTIONS, CONTACT ENGINEER.
2. P.C. RESPONSIBLE FOR EXECUTING ALL CODE REQUIRED TESTS & INSPECTIONS, INCLUDING BUT NOT LIMITED TO, LEAK & PRESSURE TESTING OF WASTE, VENT, & WATER PIPING, & SANITIZING OF WATER PIPING.
3. WATER SERVICE & BUILDING SEWER PIPING MUST BE SEPARATED PER 2017 FLPC 603.2.
4. ENSURE PIPING LOCATED ON EXTERIOR WALLS (OR OTHER WALLS EXPOSED TO FREEZING CONDITIONS) IS INSTALLED ON WARM-SIDE OF WALL INSULATION PER FLPC 305.4.
5. ALL WATER PIPING INSTALLED BELOW GRADE TO BE PROTECTED AGAINST FREEZING BY BURYING NOT LESS THAN 6" BELOW THE FROST LINE OR NOT LESS THAN 12" BELOW FINISHED GRADE, WHICHEVER IS GREATER PER FLPC 305.4.
6. ANY NOTCHING, DRILLING, BORING, OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD & NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE.
7. SUPPORT ALL PIPING IN ACCORDANCE W/ 2017 FLPC. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK.
8. PROVIDE A U.L. LISTED ASSEMBLY FOR ALL PENETRATIONS THRU FIRE RATED WALLS, FLOORS, & CEILINGS.
9. PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS, & CEILINGS SHALL BE SEALED IN AN AIR TIGHT MANNER & IN ACCORDANCE W/ 2017 FLECC.
10. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE W/ PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS AS PLANS INDICATED & AT THE BASE OF ALL WASTE STACKS, AT EVERY FOUR 45 DEGREE TURNS IN SERIES (W/ ONE 90° ELBOW COUNTING AS TWO 45° BENDS), AT EVERY 100 FEET, & AT THE BASE OF ALL ROOF LEADERS. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS.
11. SUPPLY BRANCH LINES SERVING MORE THAN ONE (1) FIXTURE SHALL INCLUDE SHUT-OFF VALVE. LABEL VALVE & LOCATE AS CLOSE TO RISER/MAIN AS POSSIBLE. (FLPC 606.2.1)
12. VALVES NOT DIRECTLY AT EQUIPMENT SHALL BE LABELED INDICATING THE FIXTURE OR AREA SERVED. (FLPC 606.4)
13. PROVIDE SHUT-OFF VALVES ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE, APPLIANCE, OR MECHANICAL EQUIPMENT.
14. WATER HEATER SHALL BE FILLED W/ WATER & PURGED AS SOON AS INSTALLED OR IN NO EVENT LATER THAN GAS/ELECTRIC HOOK-UP.
15. COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT W/ MASONRY OR DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, & CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS W/ OTHER PIPING, SATISFACTORY & PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL PROTECT THE COPPER AGAINST CONTACT W/ OTHER METALS.
16. WHERE COPPER PIPING IS SLEEVED THROUGH MASONRY, SLEEVES SHALL BE COPPER OR RED BRASS. WHERE COPPER MUST BE CONCEALED IN A MASONRY PARTITION OR AGAINST MASONRY, CONTACT SHALL BE PREVENTED BY COATING THE COPPER HEAVILY W/ ASPHALTIC ENAMEL & PROVIDING 15# ASPHALT SATURATED FELT BETWEEN THE PIPE & MASONRY.
17. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, & PARTITIONS. PIPE INSULATION SHALL BE MITERED AT ELBOWS & TEES TO ENSURE COMPLETE COVERAGE OF PIPING.
18. VACUUM BREAKERS SHALL BE PROVIDED FOR ALL FIXTURES TO WHICH HOSES MAY BE ATTACHED. VACUUM BREAKERS SHALL BE PERMANENTLY ATTACHED.
19. THE PLUMBING CONTRACTOR SHALL PROVIDE WATER HAMMER PROTECTION ON ALL WATER DISTRIBUTION PIPING SERVING EQUIPMENT W/ QUICK CLOSING VALVES (ICE MAKERS, DISHWASHERS, FLUSH VALVES, WASHING MACHINES, WATER COOLERS, ETC.) SEE SHOCK ARRESTOR SCHEDULE.
20. ACCESS DOORS TO BE PROVIDED FOR ALL VALVES & DEVICES REQUIRING ACCESS WHEN LOCATED IN WALLS OR ABOVE INACCESSIBLE CEILING CONSTRUCTION. ACCESS DOORS TO BE RATED WHERE INSTALLED IN RATED ASSEMBLIES.
21. P.C. IS TO ENSURE THAT THEIR INSTALLATION OF NEW CONDUITS, PIPES, DUCTWORK, & SIMILAR DOES NOT BLOCK ACCESS TO NEW OR EXISTING AREA EQUIPMENT & THAT THE FORE MENTIONED DOES NOT INTERFERE W/ THE REQUIRED SERVICE CLEARANCE OF NEW OR EXISTING EQUIPMENT. COORDINATE W/ OTHER TRADE CONTRACTORS & CONTACT ENGINEER IF UNCERTAINTY EXISTS REGARDING EQUIPMENT SERVICE CLEARANCE REQUIREMENTS.
22. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLUMBING EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). UPON COMPLETION OF WORK, THE PLUMBING CONTRACTOR SHALL CLEAN, WASH, ETC. ALL ITEMS & EQUIPMENT WITHIN HIS SCOPE OF WORK & LEAVE ALL ITEMS BRIGHT & CLEAN.
23. NO INSULATION PERMITTED ON BACKFLOW PREVENTER ASSEMBLY.
24. PROVIDE PRESSURE REDUCING VALVE IF INCOMING WATER PRESSURE EXCEEDS 80 PSI.

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE

MARK	FIXTURE	TYPE	MANUFACTURER	MODEL NO.	MATERIAL	STYLE	FAUCET/VALVE				DRAIN		SUPPLIES AND STOPS	PIPE SIZES				MOUNTING	REMARKS
							MANUFACT. MODEL NO.	SPOUT	HANDLES	CENTERS	TYPE	SIZE		WASTE	VENT	CW	HW		
P-1	WATER CLOSET	FLUSH TANK	PROFLO	PF5112HE	VITREOUS CHINA	STANDARD ELONGATED	-	-	-	-	-	-	BRASSCRAFT OCR1912DL	3"	2"	½"	-	FLOOR	PROVIDE CLOSED FRONT SEAT WITH LID. RIM HEIGHT = 15"
P-1A	WATER CLOSET	FLUSH TANK	AMERICAN STANDARD	238AA.114	VITREOUS CHINA	ADA ELONGATED	-	-	-	-	-	-	BRASSCRAFT OCR1912DL	3"	2"	½"	-	FLOOR	PROVIDE CLOSED FRONT SEAT WITH LID. RIM HEIGHT = 16.5"
P-1B	WATER CLOSET	FLUSH TANK	KOHLER	K-5172	VITREOUS CHINA	ADA ELONGATED	-	-	-	-	-	-	BRASSCRAFT OCR1912DL	3"	2"	½"	-	FLOOR	PROVIDE OPEN FRONT SEAT WITH NO LID. RIM HEIGHT = 16.5"
P-1C	WATER CLOSET	FLUSH TANK	AMERICAN STANDARD	270AA.101	VITREOUS CHINA	ADA ELONGATED	-	-	-	-	-	-	BRASSCRAFT OCR1912DL	3"	2"	½"	-	FLOOR	PROVIDE OPEN FRONT SEAT WITH NO LID. RIM HEIGHT = 16.5"
P-2	LAVATORY	DROP IN	AMERICAN STANDARD	0476.028	VITREOUS CHINA	STANDARD COUNTER TOP	PFISTER G143-610K	CENTER	LEVER	4" 3-HOLE	POP-UP	1½"	BRASSCRAFT OCR1912A	2"	1½"	½"	½"	COUNTER	1.5 GPM.
P-2A	LAVATORY	DROP IN	AMERICAN STANDARD	0476.028	VITREOUS CHINA	ADA COUNTER TOP	PFISTER G143-610K	CENTER	LEVER	4" 3-HOLE	POP-UP	1½"	BRASSCRAFT OCR1912A	2"	1½"	½"	½"	COUNTER	1.5 GPM. BARRIER FREE.
P-2B	LAVATORY	WALL MOUNT	LACAVA	4500	PORCELAIN	ADA	TOTO TEL5LI15R	CENTER	AUTO	SINGLE HOLE	GRID	1½"	BRASSCRAFT OCR1912A	2"	1½"	½"	½"	COUNTER	HYDROPOWER BARRIER FREE. 0.20 GALLONS PER CYCLE.
P-2C	LAVATORY	VESSEL	SIGNATURE HARDWARE	SKU: 930337	MARBLE	ADA	VIGO VG03009	CENTER	AUTO	SINGLE HOLE	GRID	1½"	BRASSCRAFT OCR1912A	2"	1½"	½"	½"	COUNTER	W/ 0.5GPM AERATOR BARRIER FREE.
P-2D	LAVATORY	DROP IN	AMERICAN STANDARD	0476.028	VITREOUS CHINA	ADA COUNTER TOP	CFG 40717	CENTER	LEVER	4" 3-HOLE	GRID	1½"	BRASSCRAFT OCR1912A	2"	1½"	½"	½"	COUNTER	0.5 GPM. BARRIER FREE.
P-5	SHOWER/TUB	STANDARD	AQUATIC	2603SGM	APPLIED ACRYLIC	ONE-PIECE	PFISTER LJ89-030K	CENTER	LEVER	-	GRID	2"	-	2"	1½"	½"	½"	FLOOR	W/ TUB SPOUT. 1.8 GPM
P-5A	SHOWER/TUB	ADA	AQUATIC	2603SMTE	GELCOATED	ONE-PIECE	DELTA T17438	CENTER	LEVER	-	GRID	2"	-	2"	1½"	½"	½"	FLOOR	PROVIDE W/ GRAB BARS. W/ VALVE & SLIDE BAR PACKAGE. W/ REMOVABLE SEAT. 2.0 GPM.
P-5B	SHOWER HEAD	-	-	-	-	ADA	SYMMONS S-4702	-	LEVER	-	FLOOR	2"	-	2"	1½"	½"	½"	FLOOR	TILED SHOWER BY G.C. W/ HAND SHOWER & SLIDE BAR. COORD. SEAT & BARS W/ ARCH. 2.5GPM
P-6	SINK (33" x 22")	DROP-IN	ELKAY	DLR332210	STAINLESS STEEL	DOUBLE BOWL	PELICAN PL-8213	CENTER	LEVER	4" O.C. 1-HOLE	CRUMB CUP	1½"	BRASSCRAFT OCR1912A	2"	1½"	½"	½"	COUNTER	BOWL DEPTH = 10-1/8" W/ PULL DOWN SPRAYER. 1.8 GPM
P-6A	SINK (33" x 22")	DROP-IN	ELKAY	LRAD332265	STAINLESS STEEL	ADA 2-BOWL	ELKAY LKHA2031	CENTER	LEVER	4" O.C. 1-HOLE	CRUMB CUP	1½"	BRASSCRAFT OCR1912A	2"	1½"	½"	½"	COUNTER	W/ OFFSET DRAIN, REAR CENTER. BOWL DEPTH = 6-1/2" W/ PULL DOWN SPRAYER. 1.75 GPM
P-6B	SINK (36" x 25")	UNDER MOUNT	KOHLER	K-6536-3-0	STAINLESS STEEL	SINGLE BOWL	ELKAY K-7548-4-VS	CENTER	LEVER	4" O.C. 2-HOLE	CRUMB CUP	1½"	BRASSCRAFT OCR1912A	2"	1½"	½"	½"	COUNTER	W/ OFFSET DRAIN, REAR CENTER. BOWL DEPTH = 6-7/8" W/ SPRAYER. 1.5 GPM
P-6C	SINK (18" x 19")	DROP-IN	ELKAY	LRAD1918	STAINLESS STEEL	SINGLE BOWL	AMER. STD. 4101.301	CENTER	LEVER	4" O.C. 3-HOLE	CRUMB CUP	1½"	BRASSCRAFT OCR1912A	2"	1½"	½"	½"	COUNTER	W/ OFFSET DRAIN, REAR CENTER. BOWL DEPTH = 4" W/ SPRAYER. 2.2 GPM
P-6D	SINK (33" x 22")	DROP-IN	ELKAY	DLR332210	STAINLESS STEEL	DOUBLE BOWL	CFG 40513	CENTER	LEVER	4" O.C. 4-HOLE	CRUMB CUP	1½"	BRASSCRAFT OCR1912A	2"	1½"	½"	½"	COUNTER	BOWL DEPTH = 10-1/8" W/ SPRAYER. 1.5GPM
P-7	WASHER BOX	SUPPLY BOX	OATEY	-	PVC	PLASTIC, RECESSED	-	-	-	-	-	-	-	2" V 3" H	1½"	½"	½"	WALL	MATCH PIPING MATERIALS. W/ QTR TURN VALVE & SHOCK ARRESTORS. W/ FACEPLATE. W/ TAIL PIECE.
P-8	VALVE BOX	SUPPLY BOX	OATEY	-	POLYSTYRENE	PLASTIC, RECESSED	-	-	-	-	-	-	-	-	-	½"	-	WALL	MATCH PIPING MATERIALS. W/ QTR TURN VALVE & SHOCK ARRESTOR. W/ FACEPLATE.
P-9	GARBAGE DISPOSAL	UNDER SINK	INSINKERATOR	BADGER 1	-	-	-	-	-	-	-	1½"	-	2"	-	-	-	UNDER SINK	TO BE PROVIDED AT SINK, P-6 & P-6A
P-10	WATER COOLER	HI-LO	ELKAY	LZWS-LRPBM28K	STAINLESS, VINYL	ADA	-	-	-	-	-	-	BRASSCRAFT G2CR19	1½"	1½"	½"	-	WALL	115V, 1.0 AMPS. HFC-134A. MOUNT AT ADA HEIGHT. W/ HANGER BRACKET. W/ EZH20 BOTTLE FILLER.
P-10B	WATER COOLER	HI-LO	HALSEY TAYLOR	HVR-BL-WF LR	STAINLESS STEEL	EXTERIOR, ADA	-	-	-	-	-	-	COORD. W/ MFG.	1½"	1½"	½"	-	WALL	MOUNT AT ADA HEIGHT. W/ HANGER BRACKET.
P-11	URINAL	WALL HUNG	KOHLER	K-4904-ET	VITREOUS CHINA	ADA TOP-SPUD	KOHLER K-10668	-	-	-	-	-	-	2"	1½"	¾"	-	WALL	SEE ARCH PLAN FOR MTG. HEIGHT. 0.125 GPF. AUTO VALVE (BATTERY POWERED).
P-11B	URINAL	WALL HUNG	AMERICAN STANDARD	6590.001	VITREOUS CHINA	ADA TOP-SPUD	AMER. STD. 6045.101	-	-	-	-	-	-	2"	1½"	¾"	-	WALL	SEE ARCH PLAN FOR MTG. HEIGHT. 1.0 GPF.
P-12	MOP SINK	FLOOR MOUNT	TABCO	9-OP-40DF	STAINLESS, STEEL	DROP FRONT 25x21	TABCO K-240	CENTER	2	8" 2-HOLE	DOME	3"	-	3"	1½"	½"	½"	FLOOR	W/ WALL BRACKET. W/ MOP HANG. W/ HOSE & HOSE BRACKET. W/ VACUUM BREAKER.
FD-1	FLOOR DRAIN	FINISHED FLOOR	ZURN	FD1	PVC	ADJUSTABLE	-	-	-	-	-	-	-	SEE PLAN	-	-	-	FLOOR	W/ DEEP SEAL TRAP. W/ TRAP PRIMER.
FD-2	FLOOR DRAIN	FINISHED FLOOR	ZURN	FD1	PVC	ADJUSTABLE	-	-	-	-	-	-	-	SEE PLAN	-	-	-	FLOOR	W/ DEEP SEAL TRAP.
AAV	AIR ADM. VALVE	THREADED	STUDOR	20301	ABS, PVC	MINI-VENT	-	-	-	-	-	-	-	-	SEE PLN	-	-	PIPE	W/ ACCESS COVER (IF REQ'D).
SD	SHOWER DRAIN	FINISHED FLOOR	ZURN	FD1	PVC	ADJUSTABLE	-	-	-	-	-	-	-	SEE PLAN	-	-	-	FLOOR	W/ DEEP SEAL TRAP. W/ STAINLESS STEEL STRAINER. W/ CLAMP COLLAR & WEEP HOLES.
WCO	WALL CLEANOUT	TEE	CHARLOTTE PIPE	PVC-445	PVC	FLUSH PLUG	-	-	-	-	-	-	-	SEE PLAN	-	-	-	WALL	W/ ZURN CO-2530 WALL COVER. W/ PVC PLUG W/ THREADED TAP.
GCO	GRADE CLEANOUT	ADJUSTABLE	ZURN	CO-2450	PVC BODY, NICKEL CVR.	-	-	-	-	-	-	-	-	SEE PLAN	-	-	-	GRADE	W/ CONCRETE PAD.
FCO	FLOOR CLEANOUT	ADJUSTABLE	ZURN	CO-2450	PVC BODY, NICKEL CVR.	FINISHED FLOOR	-	-	-	-	-	-	-	SEE PLAN	-	-	-	FLOOR	
HB-1	HOSE BIB	ANGLE	ZURN	Z1341-BFP	BRONZE	-	-	-	-	-	-	-	-	-	-	½"	-	WALL	W/ VACUUM BREAKER.
HB-2	HOSE BIB	ANGLE	ZURN	Z1341-BFP	BRONZE	-	-	-	-	-	-	-	-	-	-	½"	-	WALL	W/ VACUUM BREAKER. LOOSE KEY TYPE.
FPHB	HOSE BIB	STRAIGHT	ZURN	Z1346	BRONZE	FREEZE PROOF	-	-	-	-	-	-	-	-	-	½"	-	WALL	VERIFY WALL DEPTH. W/ VACUUM BREAKER. LOOSE KEY TYPE.
HD	HUB DRAIN	FUNNEL	ZURN	Z326	CAST-IRON	THREADED	-	-	-	-	-	-	-	SEE PLAN	-	-	-	FLOOR	W/ DEEP SEAL TRAP.

NOTES: 1. SEE SCHEDULE CONTINUED ON P0.02

REVIEWED FOR PLUMBING CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION DATE 12/26/19 BY
ALL PLUMBING INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE STATE AND LOCAL CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

1. All drawings are to be coordinated with all site information by owner and contractor, and applicable codes. 3. Planworx Architecture, P.A. is not responsible for constructed variations from the information depicted.
2. Contractor is to notify architect immediately of conditions or items varying from depicted information. 4. Planworx Architecture, P.A. will not assume any liability for expenses associated with errors and omissions on these drawings unless offset by verified construction savings as a result of planworx architecture, p.A. Design.
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PLX-1906-P001.DWG

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REVISION
OCT 15 2019
RESUBMIT

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MAPLE ENGINEERING, PLLC
FL COA #: 3316
708 ST. MARYS ST
RALEIGH, NC 27605 LIC.#: P-0990
P:919-341-4247 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19
REVISIONS: NUMBER | DATE | INITIALS | DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING SCHEDULES & NOTES
SHEET NUMBER: P0.01

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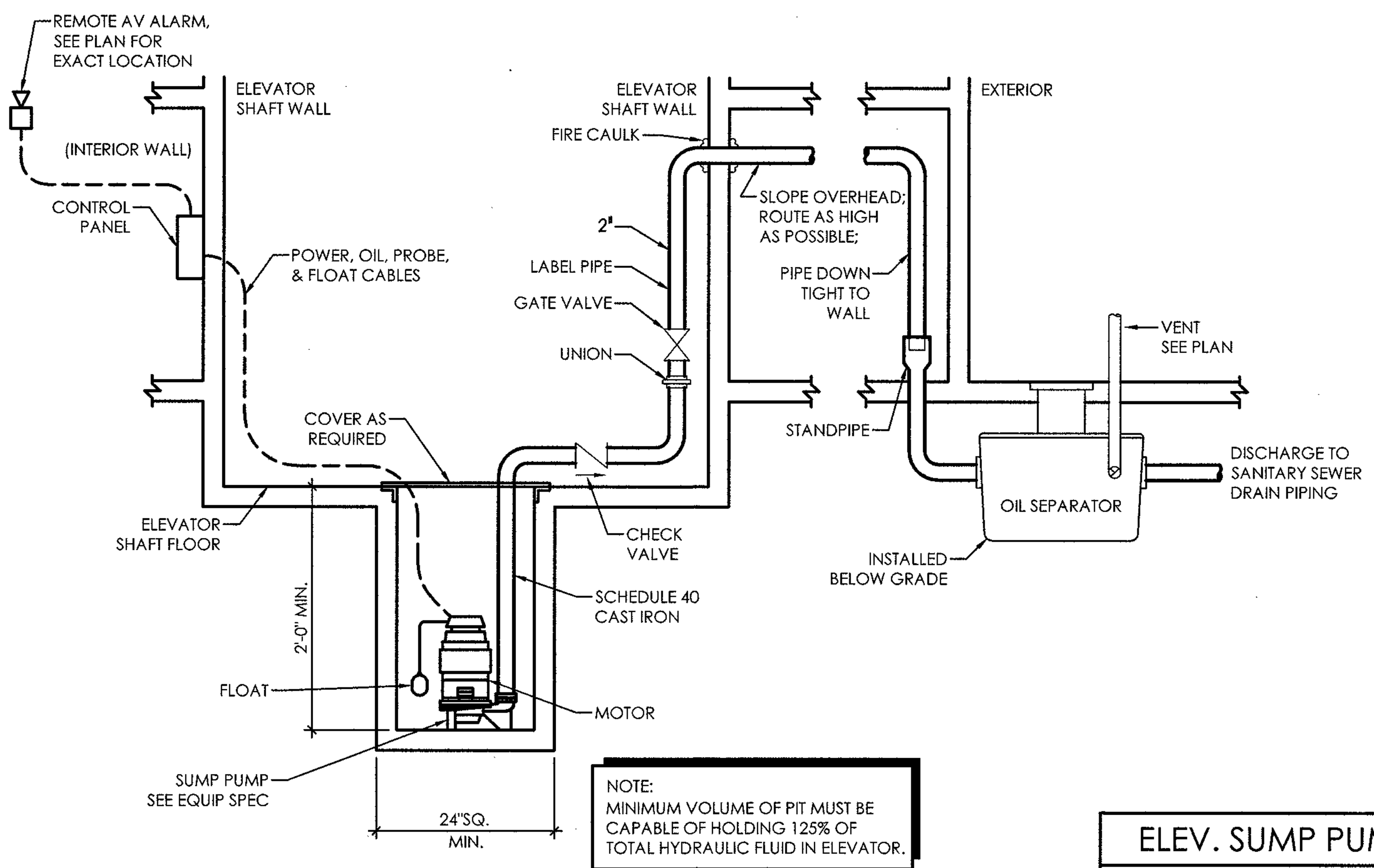
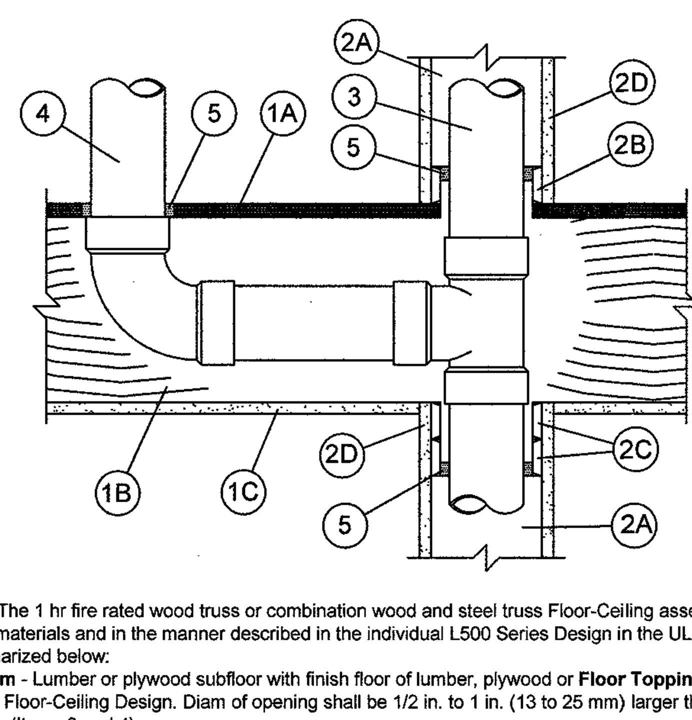


NOTE:
MINIMUM VOLUME OF PIT MUST BE CAPABLE OF HOLDING 125% OF TOTAL HYDRAULIC FLUID IN ELEVATOR.

9 ELEVATOR SUMP PUMP DETAIL
NO SCALE

System No. F-C-2157
F Rating - 1 Hr
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



1. **Floor Assembly** - The 1 hr fire rated wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory, as summarized below:
   A. **Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Diam of opening shall be 1/2 in. to 1 in. (13 to 25 mm) larger than the outside diam of nonmetallic pipe (Items 3 and 4).
   B. **Joists** - Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and ends firestopped.
   C. **Gypsum Board*** - Nom 4 ft (1.2 m) wide by 5/8 in. (16 mm) thick, attached as described in the individual Floor-Ceiling Design.
2. **Chase Wall** - The through penetrant (Item No. 3) shall be routed through a single, double or staggered wood studs/gypsum board chase wall and shall include the following construction features:
   A. **Studs** - Nom 2 by 4 in. (51 by 102 mm) or 2 by 6 in. (51 by 152 mm) lumber studs.
   B. **Sole Plate** - Nom 2 by 4 in. (51 by 102 mm) or 2 by 6 in. (51 by 152 mm) lumber plates. Diam of opening or length of notch-out in sole plate to be 1/2 in. to 1 in. (13 to 25 mm) larger than outside diam of pipe.
   C. **Top Plate** - The single or double top plate shall consist of one or two nom 2 by 4 in. (51 by 102 mm) or 2 by 6 in. (51 by 152 mm) lumber plates. Diam of opening or length of notch-out in top plate to be 1/2 in. to 1 in. (13 to 25 mm) larger than outside diam of pipe.
   D. **Gypsum Board** - Min 1/2 in. (13 mm) thick rated or nonrated gypsum board.
3. **Through Penetrant** - One nonmetallic pipe to be installed within the firestop system. Pipe to be rigidly supported on both sides of floor-ceiling assembly. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (0 to max 13 mm). The following types and sizes of nonmetallic pipes may be used:
   A. **Polyvinyl Chloride (PVC) Pipe** - Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. **Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 3 in. (76 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
4. **Branch Piping** - (Optional) - One nonmetallic pipe to be connected to through penetrant (Item 3) and installed within opening in subfloor. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). The following types and sizes of nonmetallic pipes may be used:
   A. **Polyvinyl Chloride (PVC) Pipe** - Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
   B. **Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
5. **Fill, Void or Cavity Materials*** - Caulk or Sealant - Min 3/4 in. (19 mm) thickness of caulk applied within annular space around perimeter of through penetrant (Item 3), flush with top surface of floor or sole plate and flush with bottom surface of top plate. Min 3/4 in. (19 mm) thickness of caulk applied within annular space around perimeter of branch piping (Item 4), flush with top surface of floor. Min 1/2 in. (13 mm) diam bead applied at the pipe/floor interface.

SPECIFIED TECHNOLOGIES, INC. - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or Type WF300 Firestop Caulk

*Bearing the UL Classification Mark

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XXXXXXXXX

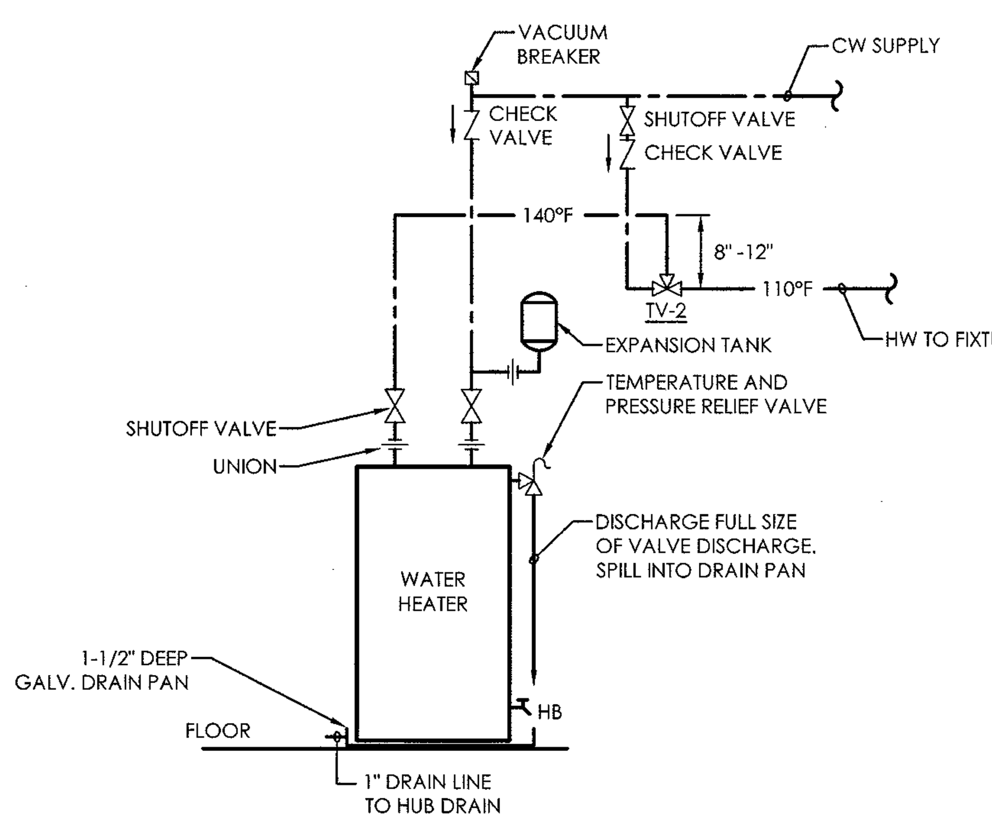
5 NON- METALIC PIPE (WOOD FLOOR)
NO SCALE

ELEV. SUMP PUMP (SP-1) SPEC

1. SUMP PUMP EQUAL TO STANCOR SE-50, 115V, 0.5HP, WITH A CAPACITY OF 50GPM AT 22FT HEAD.
2. PROVIDE WITH "OIL MINDER JUNIOR" CONTROL PANEL.
3. PROVIDE WITH REMOTE RECESSED MOUNTED AV ALARM COMPATIBLE WITH CONTROL PANEL.

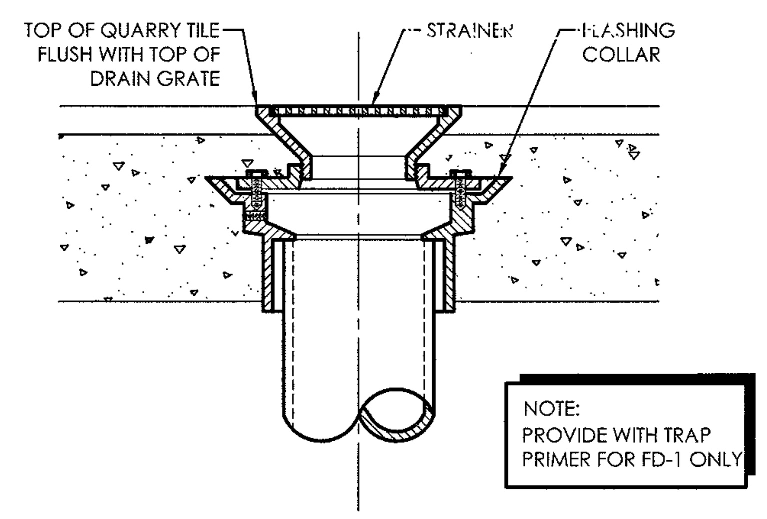
OIL SEPARATOR (OS-1) SPEC

1. OIL SEPARATOR TO BE EQUAL TO STRIEM OS-50.
2. 3" INLET AND OUTLET.
3. FLOW RATE = 50 GPM.
4. OIL CAPACITY = 34.1 GALLONS.
5. INSTALL PER MANUFACTURER'S INSTRUCTIONS.



NOTE:
1. INSTALL WATER HEATER PER MANUFACTURER REQUIREMENTS
2. PROVIDE HEAT TRAP ON CW AND HW LINES PER ENERGY CODE
3. ELEVATE DRAIN PAN AS NECESSARY TO ALLOW PROPER FLOW TO HUB DRAIN

8 WATER HEATER DETAIL (WH-2)
NO SCALE



NOTE:
PROVIDE WITH TRAP PRIMER FOR FD-1 ONLY

4 FLOOR DRAIN DETAIL
NO SCALE

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE (CONTINUED)

MARK	FIXTURE	TYPE	MANUFACTURER	MODEL NO.	MATERIAL	STYLE	FAUCET/VALVE				DRAIN		SUPPLIES AND STOPS	PIPE SIZES				MOUNTING	REMARKS
							MANUFACT. MODEL NO.	SPOUT	HANDLES	CENTERS	TYPE	SIZE		WASTE	VENT	CW	HW		
YHD	YARD HYDRANT	ENCASED	SIMMONS	MODEL 5800LF	GALVANIZED STEEL	-	-	-	-	-	-	-	-	-	-	1/2"	-	GRADE	COORD. W/ SITE CONDITIONS.
BFP-1	BACK FLOW PREVENTER	RED. PRESS. ZONE	WATTS	LF909QT	LEAD-FREE, BRONZE	HORIZONTAL	-	-	-	-	-	-	-	-	-	1"	—	WALL	W/ STRAINER. PROVIDE REQ'D CLEARANCES. W/ TEST PORTS & ISO VALVES. DRAIN W/ AIR GAP.
WH-1	WATER HEATER	ELECTRIC	STATE WATER HEATERS	EN6 40 DOMBS	GLASS LINED	LOWBOY	-	-	-	-	-	-	-	-	-	3/4"	3/4"	PLATFORM	38 GALLON, 4.5KW, 208V/1Ø. 23 GPH @ 80°F RISE. SET TO 140°F, W/ TV-2. SEE DETAIL.
WH-2	WATER HEATER	ELECTRIC	STATE WATER HEATERS	EN6 55 FORT	GLASS LINED	UPRIGHT	-	-	-	-	-	-	-	-	-	3/4"	3/4"	FLOOR	55 GALLON, 4.5KW, 208V/1Ø. 21GPH @ 90°F RISE. SET TO 140°F, W/ TV-2. SEE DETAIL.
WH-3	WATER HEATER	ELECTRIC	STATE WATER HEATERS	PCE 30 20LSA	GLASS LINED	UPRIGHT	-	-	-	-	-	-	-	-	-	3/4"	3/4"	PLATFORM	30 GALLON, 4.5KW, 208V/1Ø. 20GPH @ 80°F RISE. SET TO 140°F, W/ TV-2. SEE DETAIL.

NOTES:
1. ALL FIXTURE COLORS & FINISHES TO BE APPROVED BY OWNER & ARCHITECT BEFORE PURCHASING.
2. PROVIDE P-TRAP AND SUPPLY LINE SAFETY COVERS FOR ALL ADA SINK AND LAVATORY INSTALLATIONS.
3. WATER CLOSET HANDLES TO BE LOCATED ON "WIDE SIDE" OF STALL FOR ADA FIXTURES.
4. SEE DETAIL SHEET FOR ADDITIONAL ITEMS TO BE PROVIDED/INSTALLED W/ FIXTURES LISTED ABOVE.

SHOCK ARRESTOR SCHEDULE

FIXTURE UNITS	UNIT SIZE (CONN. SIZE)	MFG & MODEL (OR EQUAL)
1-4	AA (1/2")	SIOUX CHIEF "MINI-RESTER"
5-11	A (1/2")	SIOUX CHIEF "HYDRA-RESTER"
12 - 32	B (3/4")	SIOUX CHIEF "HYDRA-RESTER"
33-60	C (1")	SIOUX CHIEF "HYDRA-RESTER"

NOTES:
1. LOCATE SHOCK ARRESTORS IN ACCESSIBLE LOCATION OR PROVIDE SHOCK ARRESTORS THAT ALLOW CONCEALMENT PER MANUFACTURER'S GUIDELINES.
2. SEE PLAN, RISERS, AND SCHEDULES FOR ARRESTOR LOCATIONS. IF LOCATION NOT INDICATED, INSTALL IN ACCORDNCE WITH MANUFACTURER'S GUIDELINES.
3. SHOCK ARRESTORS **NOT** REQUIRED ON PLASTIC PIPE PER 2018 NCPC 604.9.

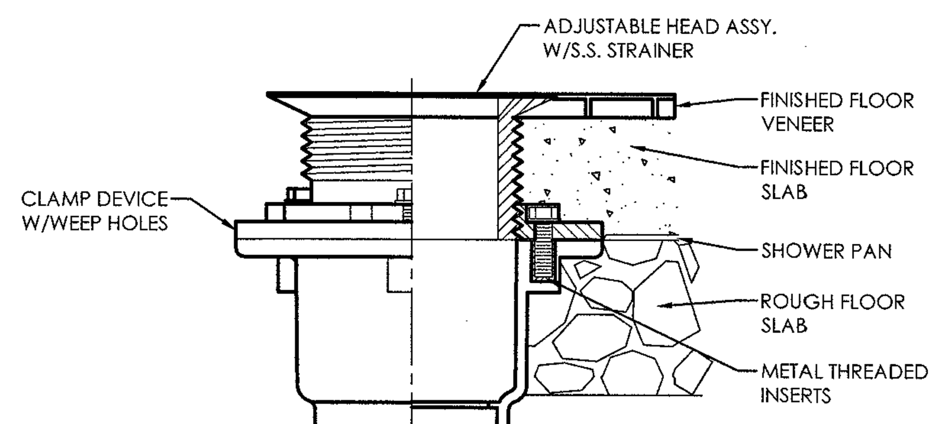
VALVE SCHEDULE

TAG	DESCRIPTION	MFG & MODEL (OR EQUAL)
BV-1	FULL-PORT BALL VALVE	WATTS LFB6081
BV-2	BALANCING VALVE	BELL & GOSSETT CB (W/ TEST PORTS)
CV-1	DUAL CHECK VALVE	WATTS SD-2 (ASSE 1032; <1/2") WATTS 9D (ASSE 1012; 1/2" & 3/4")
CV-2	BRASS CHECK VALVE	WATTS LFWCV (1/2" TO 1")
PRV-1	PRESS. RED. VALVE	WATTS LF223-S (SET TO 50 PSI; ASSE 1003; 1/2" TO 2-1/2")
TV-1	IND. THERMO. MIX. VALVE	WATTS LFUSG-B (0.25 TO 2.5 GPM; 3/8") (SET TO 110°F DISCHARGE; ASSE 1070)
TV-2	THERMO. MIX. VALVE	WATTS LFMMV (0.5 TO 20 GPM; 1/2" TO 1") (SET TO 110°F DISCHARGE)

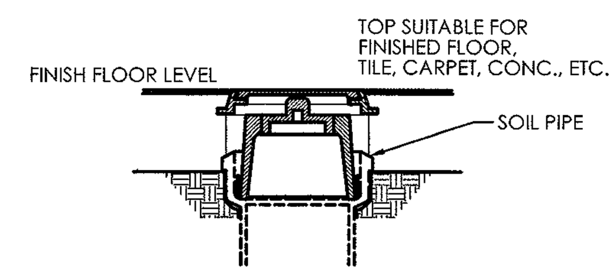
NOTES:
1. SEE PLAN FOR SIZE. VALVE SIZE TO EQUAL LINE SIZE.
2. BALL VALVES TO INCLUDE REMOVABLE HANDLES.
3. IF AVAILABLE, VALVES MAY BE THREADED OR SWEATED CONNECTIONS. USE EXTREME CARE AND LOW TEMP SOLDER TO PROTECT VALVE SEATS IF SWEATED CONNECTIONS ARE USED.

UNIT SUB-METER

1. P.C. TO PROVIDE 120V WATER SUBMETER AT EACH APARTMENT UNIT. VERIFY DETAILS WITH G.C. AND OWNER PRIOR TO BID.



7 SHOWER DRAIN DETAIL
NO SCALE



3 FLOOR CLEANOUT DETAIL
NO SCALE

PLUMBING LEGEND

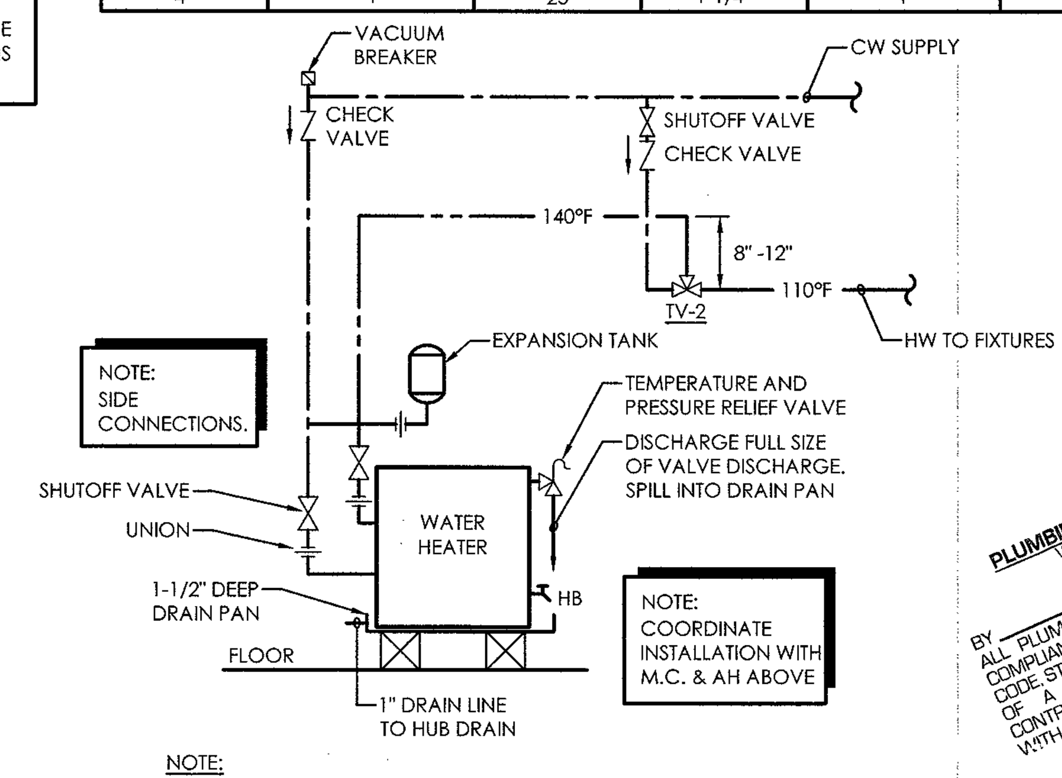
SYMBOL	DESCRIPTION
— — - —	DOMESTIC COLD WATER PIPING
— - - —	DOMESTIC HOT WATER PIPING
- - - - -	VENT PIPING
———	WASTE (SANITARY SEWER)
— SD —	STORM PIPING UNDERSLAB
(symbol)	VALVE
(symbol)	VALVE
(symbol)	CHECK VALVE
(symbol)	PIPE UP/DOWN
(symbol)	FLOOR DRAIN
(symbol)	CLEANOUT
XXX	WATER/WASTE STACK DESIGNATION
(symbol)	SUMP PUMP

AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AHJ	AUTHORITY HAVING JURISDICTION
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
BFP	BACK FLOW PREVENTER
BV	BALL OR BALANCING VALVE (SEE SCHED)
CV	CHECK VALVE
CW	COLD WATER
DN	DOWN
E.C.	ELECTRICAL SUB-CONTRACTOR
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FR	FROM
G.C.	GENERAL CONTRACTOR
HB	HOSE BIBB
HD	HUB DRAIN
HW	HOT WATER
M.C.	MECHANICAL SUB-CONTRACTOR
P.C.	PLUMBING SUB-CONTRACTOR
PRV	PRESSURE REDUCING VALVE
SS	SANITARY SEWER
TV	TEMPERING VALVE
WH	WATER HEATER
YHD	YARD HYDRANT

PLUMBING FIXTURE REQUIREMENTS

WASTE			WATER			
BUILDING DRAIN SIZE	NUMBER OF BUILDING DRAINS	TOTAL FIXTURE UNIT LOAD	WATER SERVICE SIZE	NUMBER OF WATER SERVICES	TOTAL FIXTURE UNIT LOAD	NOTES
6"	2	1096	3"	1	780	-
4"	1	25	1-1/4"	1	38	POOL HOUSE
4"	1	25	1-1/4"	1	35	CLUBHOUSE

NOTE:
SIDE CONNECTIONS.



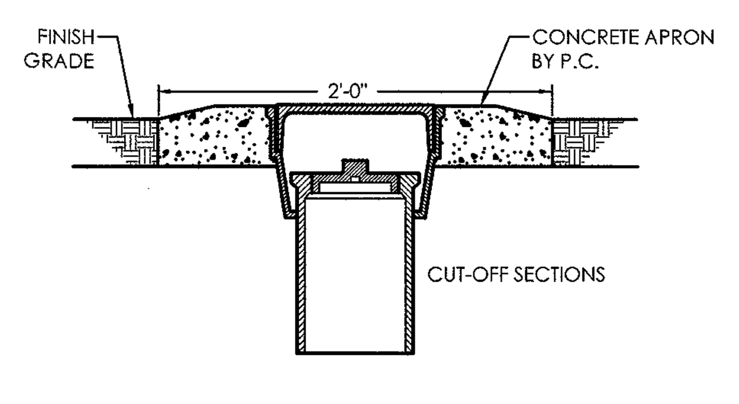
NOTE:
COORDINATE INSTALLATION WITH M.C. & AH ABOVE

NOTE:
MECHANICAL CLOSET OF TYPE 2.0 & 2.1 UNITS IS A RETURN PLENUM. ALL MATERIALS MUST BE PLENUM RATED. WATER AND DRAIN PIPING TO BE COPPER OR PLENUM RATED CPVC; NO PVC, NO PEX. DRAIN PAN MUST BE METAL; NO PLASTIC. HUB DRAIN MUST BE METAL; NO PLASTIC.

REVIEWED FOR PLUMBING CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
BY [signature] DATE 12/26/19
ALL PLUMBING INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

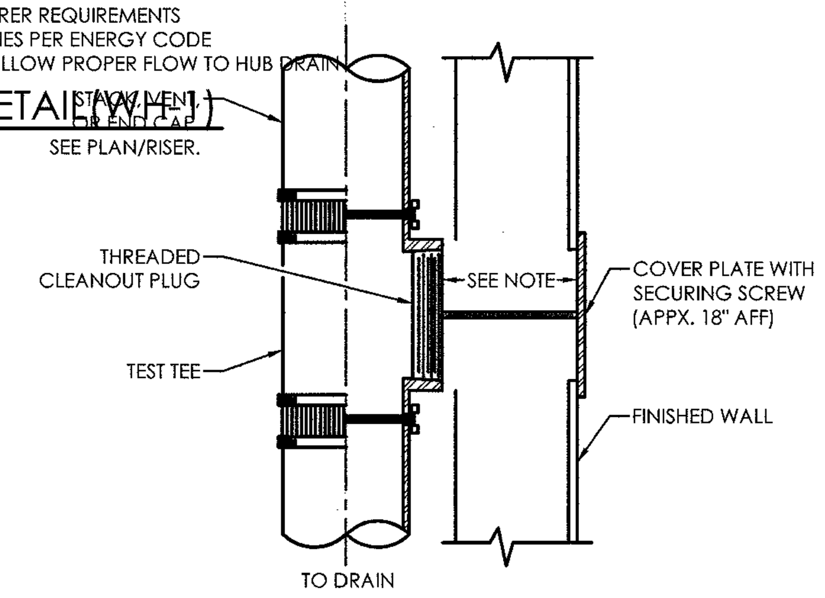
NOTE:
1. INSTALL WATER HEATER PER MANUFACTURER REQUIREMENTS
2. PROVIDE HEAT TRAP ON CW AND HW LINES PER ENERGY CODE
3. ELEVATE DRAIN PAN AS NECESSARY TO ALLOW PROPER FLOW TO HUB DRAIN

6 WATER HEATER DETAIL (WH-1)
NO SCALE



SECTION
GCO , YCO - EXTERIOR

2 EXTERIOR CLEANOUT DETAIL
NO SCALE



NOTE:
EXTEND TEST TEE OPENING IF PLUG IS GREATER THAN 8" FROM FINISHED WALL.

1 WALL CLEANOUT DETAIL
NO SCALE

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REVISION
OCT 15 2019
RESUBMIT

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10/9/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING DETAILS
SHEET NUMBER: P0.02

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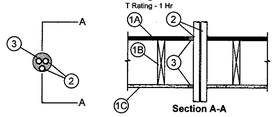
System No. F-C-2252

F Rating - 1 Hr
T Rating - 1 Hr



1. **Floor-Ceiling Assembly** - The 1 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Designs in the UL Fire Resistance Directory, as summarized below:
   A. **Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Max diam of opening is 3 in.
   B. **Wood Joists** - Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.
   C. **Gypsum Board*** - Thickness, type, number of layers and fasteners as required in the individual Floor-Ceiling Design. Max diam of opening is 3 in.

1A. **Chase Wall** - (Optional, Not Shown) - The through penetrant (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** - Nom 2 by 4 in., 2 by 6 in. or double nom 2 by 4 in. lumber studs.
   B. **Sole Plate** - Nom 2 by 4 in., 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.
   C. **Top Plate** - The double top plate shall consist of two nom 2 by 4 in., two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of opening is 3 in.
   D. **Gypsum Board*** - Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

2. **Through Penetrants** - One or more nonmetallic pipes, conduits or tubing to be installed either concentrically or eccentrically within the opening. Min space between pipes, conduits or tubes to be 0 in. Annular space between the pipes, conduits or tubing and the periphery of the opening shall be min 0 in. (point contact) to max 1 in. Penetrants to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipe, conduits or tubing may be used:
   A. **Polyvinyl Chloride (PVC) Pipe** - Nom 1 in. diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) piping systems.
   B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 1 in. diam (or smaller) SDR11 CPVC pipe for use in closed (process or supply) piping systems.
   C. **Rigid Nonmetallic Conduit (RNC)*** - Nom 1 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA 70).
   D. **Cross Linked Polyethylene (PEX) Tubing** - Nom 1 in. diam (or smaller) SDR9 PEX tubing for use in closed (process or supply) piping systems.
   E. **Electrical Nonmetallic Tubing (ENT)*** - Nom 1 in. diam (or smaller) PVC tubing installed in accordance with Article 331 of the National Electrical Code (NFPA 70).
3. **Fill, Void or Cavity Material*** - **Sealant** - Min 3/4 in. thickness of fill material applied within the annulus, flush with the top surface of the floor or chase wall sole plate. Min 5/8 in. thickness of fill material applied within the annulus, flush with bottom surface of gypsum board ceiling or chase wall top plate. Min 1/4 in. diam bead of fill material applied at point contact location on the top surface of floor or sole plate and at the penetrant/ceiling or penetrant/chase wall top plate interface.

   Specified Technologies Inc. - SpecSeal LCI Sealant

* Bearing the UL Classification Marking

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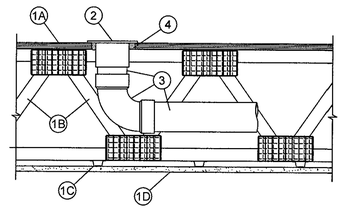
7 NON-METALLIC PIPE (WOOD FLOOR) DETAIL
NO SCALE

System No. F-C-2322

F Rating - 1 Hr
T Rating - 1 Hr



1. Floor-Ceiling Assembly - The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory, as summarized below:
   A. Flooring System - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening is 5 in. (127 mm).
   B. Wood Joists - Nom 2 by 10 in. (51 by 254 mm) lumber joists spaced 16 in. (406 mm) OC with nom 1 by 3 in. (25 by 76 mm) lumber bridging and with ends firestopped. As an alternate to lumber joists, nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists trusses or Structural Wood Members* with bridging as required with ends firestopped.
   C. Furring Channels - (Not Shown) - Resilient galv steel furring installed perpendicular to wood joists (Item 1B) between gypsum board (Item 1D) and wood joists as required in the individual Floor-Ceiling Design.
   D. Gypsum Board* - Nom 4 ft (1.22 mm) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists as specified in the individual Floor-Ceiling Design.
2. Closet Flange - Polyvinyl chloride (PVC) or acrylonitrile butadiene styrene (ABS) closet flange installed in hole-sawed opening in flooring system with flange secured to top of flooring with steel screws. Diam of circular opening through flooring (Item 1A) to be max 1/2 in. (13 mm) larger than outside diam of closet flange.
3. Drain Piping - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC or ABS drain piping and fittings. Short length of pipe with 90 degree elbow fitting cemented into bottom socket of closet flange. Drain piping to soil stack cemented into elbow.
4. Fill, Void or Cavity Material* - Sealant - Fill material forced into annulus between closet stub and periphery opening in flooring to max extent possible, flush with bottom surface of floor. Additional fill material to be installed such that a min 3/8 in. (10 mm) crown is formed around the closet stub on bottom surface of floor.

   SPECIFIED TECHNOLOGIES INC - Type WF300 Caulk
5. Water Closet - (Not Shown) - Floor mounted vitreous china water closet.

*Bearing the UL Classification Mark

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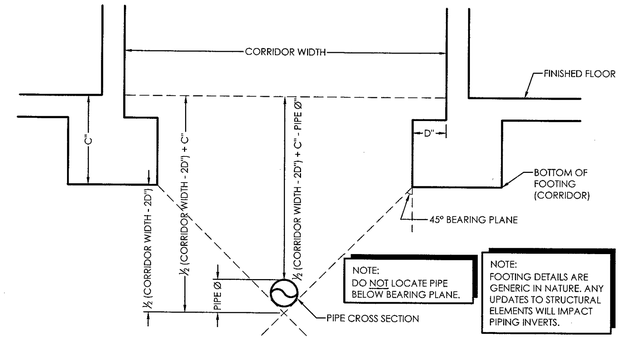
6 NON- METAILIC PIPE (WOOD FLOOR) DETAIL
NO SCALE



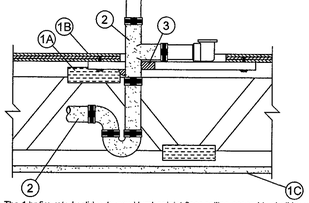
NOTES:
1. SEE STRUCTURAL PLANS FOR ACTUAL DEPTH OF FOOTING, C".
2. SEE STRUCTURAL PLANS FOR ACTUAL WIDTH OF FOOTING, TO CALCULATE D".
3. MAXIMUM DEPTH OF INVERT EQUAL TO ½ x (CORRIDOR WIDTH" - (2D")) + C" - PIPE Ø"
4. MAXIMUM DEPTH OF INVERT MEASURED TO TOP OF PIPE

5 CORRIDOR INVERT DETAIL
NO SCALE

REVISION
OCT 15 2019
RESUBMIT
#1

System No. F-C-1148

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 1 Hr	F Rating - 1 Hr
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 1 Hr
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft



1. **Floor-Ceiling Assembly** - The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
   A. **Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Rectangular cutout in flooring to accommodate the bathtub drain piping (Item 2) to be max 8 by 12 in. (203 by 305 mm). Cutout to be patched on underside of subfloor using one layer of min 3/4 in. (19 mm) thick plywood or min 5/8 in. (16 mm) thick gypsum board (Item 1C) sized to lap min 2 in. (51 mm) beyond each edge of rectangular cutout. Patch split into two pieces at opening and hole-sawed for bathtub drain piping. Diam of opening hole sawed through patch to accommodate drain piping (Item 2) to be 1 in. (25 mm) larger than outside diam of drain piping and positioned such that the annular space between drain piping and periphery of opening is min 0 in. (point contact) to max 1 in. (25 mm). Two pieces positioned around drain piping, with cut edges tightly butted, and screw-attached to underside of subfloor with 1-1/4 in (32 mm) long steel screws spaced max 6 in. (152 mm) OC.
   B. **Wood Joists*** - Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.
   C. **Gypsum Board*** - Nom 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide as specified in the individual Floor-Ceiling Design.
2. **Drain Piping** - Max 1-1/2 in. (38 mm) diam cast iron pipe, P-trap, drain and tee connected together by means of stainless steel "No-Hub" connectors and provided with an acrylonitrile butadiene styrene (ABS), polyvinyl chloride (PVC) or brass bathtub waste/overflow fitting. Drain piping system to be reliably supported above ceiling. The annular space between drain piping and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25 mm).
3. **Fill, Void or Cavity Materials*** - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of plywood or gypsum board patch. A min 1/2 in. (13 mm) diameter bead of sealant applied at the pipe/plywood or pipe/gypsum board interface at point contact location on the bottom side of patch.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series 100, 101, 102, 120, 129, or 105 Sealant, SpecSeal LCI Sealant, or Type WF Firestop Caulk

*Bearing the UL Classification Mark

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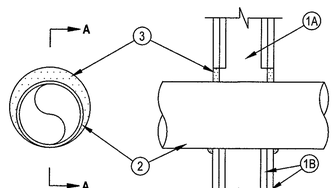
4 NON METALIC (WOOD FLOOR) DETAIL
NO SCALE

System No. W-L-1054

WL 1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

   The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.
2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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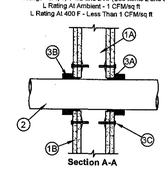
October 14, 2015

3 METALLIC PIPE (GYPSUM WALL) DETAIL
NO SCALE

System No. W-L-2059

F Ratings - 1 and 2 Hr (See Items 2 and 3)
T Ratings - 3/4, 1, 1-1/2 and 2 Hr (See Items 2 and 3)
L Rating At Ambient - 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



1. Wall Assembly - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 and V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* - 5/8 in. (16 mm) thick, 4 ft (1219 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in. (127 mm).
2. Through-Penetrants - One nonmetallic pipe or conduit to be centered within the firestop system. The annular space shall be max 1/4 in. (6 mm). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
   A. Polyvinyl Chloride (PVC) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 or 80 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. When Schedule 80 PVC pipe is used, the F and T Ratings are 1 hr. When Scheduled 80 PVC pipe is used in closed (process or supply) piping systems, the F and T Ratings are equal to the assembly rating of the wall in which it is installed.
   B. Rigid Nonmetallic Conduit - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 or 80 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70). When Schedule 80 PVC conduit is used, the F and T Ratings are 1 hr.
   C. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
   D. Acrylonitrile Butadiene Styrene (ABS) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or foamed core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   E. Fire Retardant Polypropylene (FRPP) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   F. Polyvinylidene Fluoride (PVDF) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   G. Fiberglass Reinforced Pipe (FRP) Pipe - Nom 4 in. (102 mm) diam (or smaller) glass fiber reinforced thermosetting resin pipe for use in closed (process or control) or vented (drain, waste or vent) piping systems. When FRP pipe is used, T Rating is 3/4 hr.
   H. High Density Polyethylene (HDPE) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 HDPE pipe for use in closed (process or supply) piping systems.
3. Firestop System - The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* - Sealant - Fill material forced into annular space to max extent possible. Caulk shall be installed flush with both surfaces of wall assembly.

      SPECIFIED TECHNOLOGIES INC - SpecSeal 100, 101, 102, 105, 120 or 129 Sealant, SpecSeal LCI Sealant, Pensil 300 Sealant or SpecSeal Series SIL300 Sealant
   B. Fill, Void or Cavity Material - Wrap Strip - Nom 1/8 or 3/16 in. (3.2 or 4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips or nom 1/4 in. (6 mm) thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. (38 mm) wide strips. The layers of wrap strips are individually wrapped around the through-penetrant with ends butted and held in place with masking tape. Butted ends in successive layers shall be aligned.

Fire Rating of Wall Hr	Max Diam of Through Penetrant in. (mm)	No. of Wrap Strip Layers	F Rating Hr	T Rating Hr
1	1-1/2 (38)	1	1	1
2	1-1/2 (38)	1	2	1-1/2
1	2 (51)	1	1	1
2	2 (51)	1	2	1-1/2
1	3 (76)	2	1	1
2	3 (76)	2	2	2
1	4 (102)	3	1	1
2	4 (102)	3	2	2

Except as noted in Item 2, the F and T Rating of the firestop system is dependent upon the fire rating of wall, diam of through penetrant and the number of wrap strips as tabulated below:

SPECIFIED TECHNOLOGIES INC - SpecSeal BLU Wrap Strip, SpecSeal BLUZ Wrap Strip or SpecSeal RED Wrap Strip

C. Steel Collar - Collar fabricated from coils of precut 0.016 in. (0.4 mm) thick (30 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be min 1-1/2 in. (38 mm) deep with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs for securement to the concrete floor or wall. Retainer tabs, 3/4 in. (19 mm) wide tapering down to 1/4 in. (6 mm) wide and located opposite the anchor tabs, are folded 90 degree toward pipe surface to maintain the annular space around the pipe and to retain the wrap strips. Steel collar wrapped around wrap strips and pipe with a 1 in. (25 mm) wide overlap along its perimeter joint and secured together by means of a min 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel hose clamp installed at mid-depth of the steel collar. As an alternate to the steel hose clamp, the steel collar may be secured together by means of three No. 8 by 1/4 in. (6 mm) long steel sheet metal screws when more than one layer of wrap strip is used.

   Wrap strip/collar assembly is slid along the through-penetrant until abuts the surface of the wall. Collar secured to wall by 1/8 in. (3.2 mm) diam by 1-3/4 in. (44 mm) long steel molly bolts in conjunction with 1-1/4 in. (32 mm) long steel fender washers. The number of molly bolts used is dependent upon the nom diam of the through penetrant. Two molly bolts, symmetrically located, are required for nom 1-1/2 in. (38 mm) and 2 in. (51 mm) diam through penetrants. Three molly bolts, symmetrically located, are required for nom 2-1/2 in. (64 mm) and 3 in. (76 mm) diam through penetrants. Four molly bolts, symmetrically located, are required for nom 3-1/2 in. (89 mm) and 4 in. (102 mm) diam through penetrants. Steel collars are installed on each side of wall.
D. Firestop Device* - (Optional, Not Shown) - As an alternate to Item 3B and 3C, galv steel collar lined with an intumescent material sized to fit the specific diam of the through-penetrant. Device shall be installed around the through-penetrant in accordance with accompanying installation instructions. Device incorporates anchor tabs for securement to each surface of wall assembly by means of 1/8 in. (3 mm) diam by 1-3/4 in. (45 mm) long steel molly bolts in conjunction with 1/4 in. (6 mm) diam by 1-1/2 in. (38 mm) diam steel fender washers.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Firestop Collar, SpecSeal LCC Collar or SpecSeal SSC Collar . When SpecSeal LCC Collar or SpecSeal SSC Collar are used, the max annular space shall be 1/8 in. (3 mm) for max 2-1/2 in. (64 mm) diam pipe and shall be max 1/4 in. (6 mm) for pipe larger than 2-1/2 in. (64 mm) diam.

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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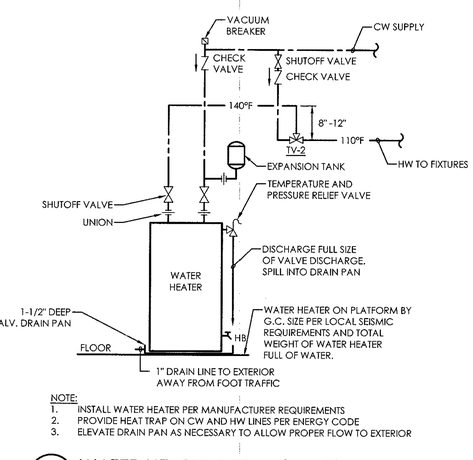
2 NON-METALLIC PIPE (GYPSUM WALL) DETAIL
NO SCALE

CP-0085(1) COR
PLUMBING CODE COMPLIANCE
WILL PERSE CODE DIVISION
BY DATE 1 3 2019
ALL PLUMBING INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL GOVERNMENT AMENDMENTS. THE PERMIT OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES



NOTE:
1. INSTALL WATER HEATER PER MANUFACTURER REQUIREMENTS
2. PROVIDE HEAT TRAP ON CW AND HW LINES PER ENERGY CODE
3. ELEVATE DRAIN PAN AS NECESSARY TO ALLOW PROPER FLOW TO EXTERIOR

1 WATER HEATER DETAIL (WH-3)
NO SCALE

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website www.planworx.com

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P:919-341-4247 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	DESCRIPTION
07.19.19	

REVISIONS NUMBER	DATE	INITIALS

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING DETAILS
SHEET NUMBER: P0.03

10/8/2019 6:41 PM
PLX-1906-P003.DWG

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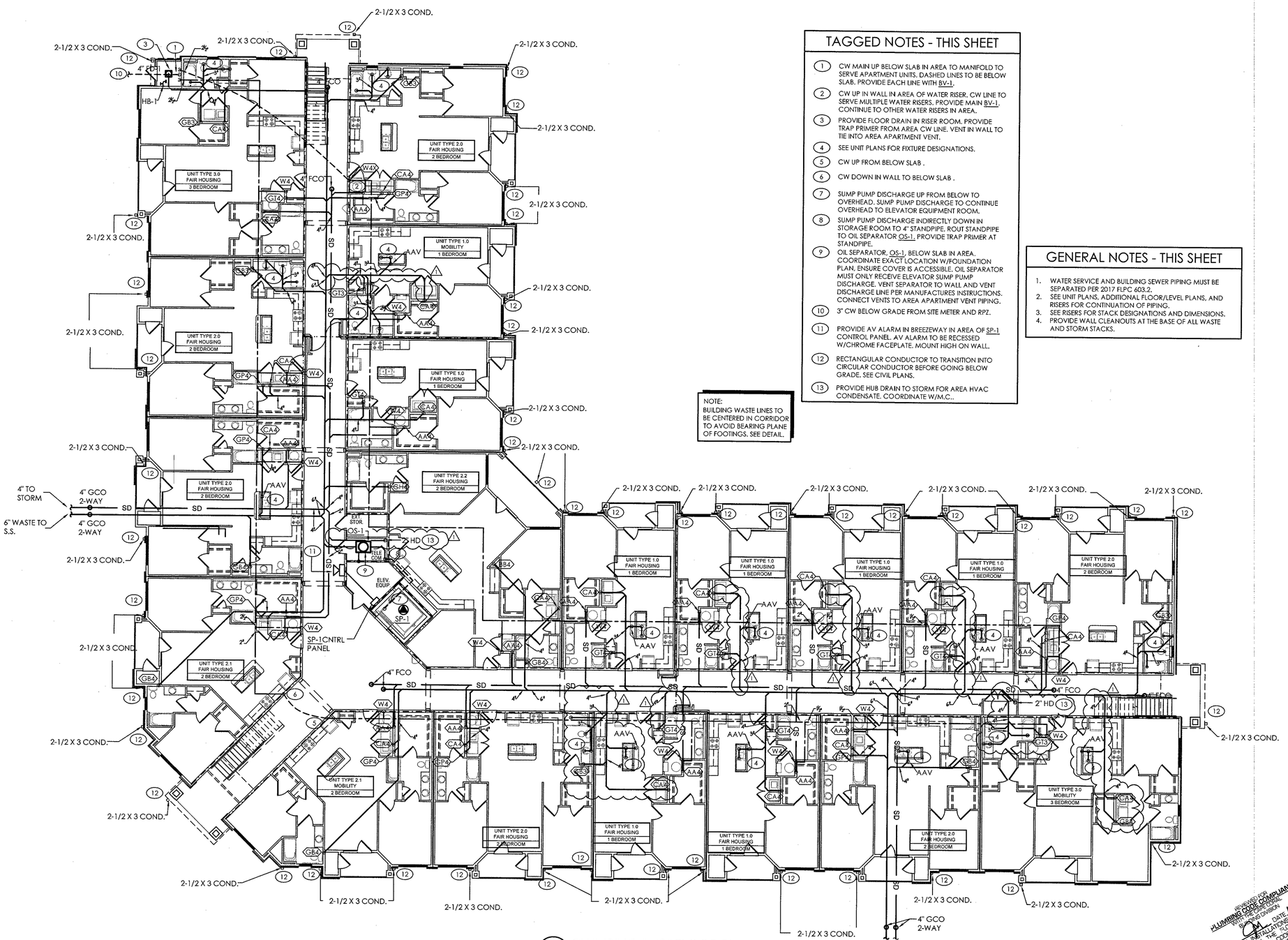

1 PLUMBING FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

TAGGED NOTES - THIS SHEET

1. CW MAIN UP BELOW SLAB IN AREA TO MANIFOLD TO SERVE APARTMENT UNITS. DASHED LINES TO BE BELOW SLAB. PROVIDE EACH LINE WITH BV-1.
2. CW UP IN WALL IN AREA OF WATER RISER. CW LINE TO SERVE MULTIPLE WATER RISERS. PROVIDE MAIN BV-1. CONTINUE TO OTHER WATER RISERS IN AREA.
3. PROVIDE FLOOR DRAIN IN RISER ROOM. PROVIDE TRAP PRIMER FROM AREA CW LINE. VENT IN WALL TO TIE INTO AREA APARTMENT VENT.
4. SEE UNIT PLANS FOR FIXTURE DESIGNATIONS.
5. CW UP FROM BELOW SLAB .
6. CW DOWN IN WALL TO BELOW SLAB .
7. SUMP PUMP DISCHARGE UP FROM BELOW TO OVERHEAD. SUMP PUMP DISCHARGE TO CONTINUE OVERHEAD TO ELEVATOR EQUIPMENT ROOM.
8. SUMP PUMP DISCHARGE INDIRECTLY DOWN IN STORAGE ROOM TO 4" STANDPIPE. ROUT STANDPIPE TO OIL SEPARATOR OS-1. PROVIDE TRAP PRIMER AT STANDPIPE.
9. OIL SEPARATOR, OS-1, BELOW SLAB IN AREA. COORDINATE EXACT LOCATION W/FOUNDATION PLAN. ENSURE COVER IS ACCESSIBLE. OIL SEPARATOR MUST ONLY RECEIVE ELEVATOR SUMP PUMP DISCHARGE. VENT SEPARATOR TO WALL AND VENT DISCHARGE LINE PER MANUFACTURES INSTRUCTIONS. CONNECT VENTS TO AREA APARTMENT VENT PIPING.
10. 3" CW BELOW GRADE FROM SITE METER AND RPZ.
11. PROVIDE AV ALARM IN BREEZEWAY IN AREA OF SP-1 CONTROL PANEL. AV ALARM TO BE RECESSED W/CHROME FACEPLATE. MOUNT HIGH ON WALL.
12. RECTANGULAR CONDUCTOR TO TRANSITION INTO CIRCULAR CONDUCTOR BEFORE GOING BELOW GRADE. SEE CIVIL PLANS.
13. PROVIDE HUB DRAIN TO STORM FOR AREA HVAC CONDENSATE. COORDINATE W/M.C..

NOTE:
BUILDING WASTE LINES TO BE CENTERED IN CORRIDOR TO AVOID BEARING PLANE OF FOOTINGS. SEE DETAIL.

GENERAL NOTES - THIS SHEET

1. WATER SERVICE AND BUILDING SEWER PIPING MUST BE SEPARATED PER 2017 FLPC 603.2.
2. SEE UNIT PLANS. ADDITIONAL FLOOR/LEVEL PLANS, AND RISERS FOR CONTINUATION OF PIPING.
3. SEE RISERS FOR STACK DESIGNATIONS AND DIMENSIONS.
4. PROVIDE WALL CLEANOUTS AT THE BASE OF ALL WASTE AND STORM STACKS.

FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.

REVISION
OCT 15 2019
RESUBMIT

REVIEWED FOR PLUMBING CODE COMPLIANCE WITH THE FLORIDA BUILDING CODE
BY OM DATE 12/26/19
ALL PLUMBING INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL AMENDMENTS. PERMIT ISSUANCE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES

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Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

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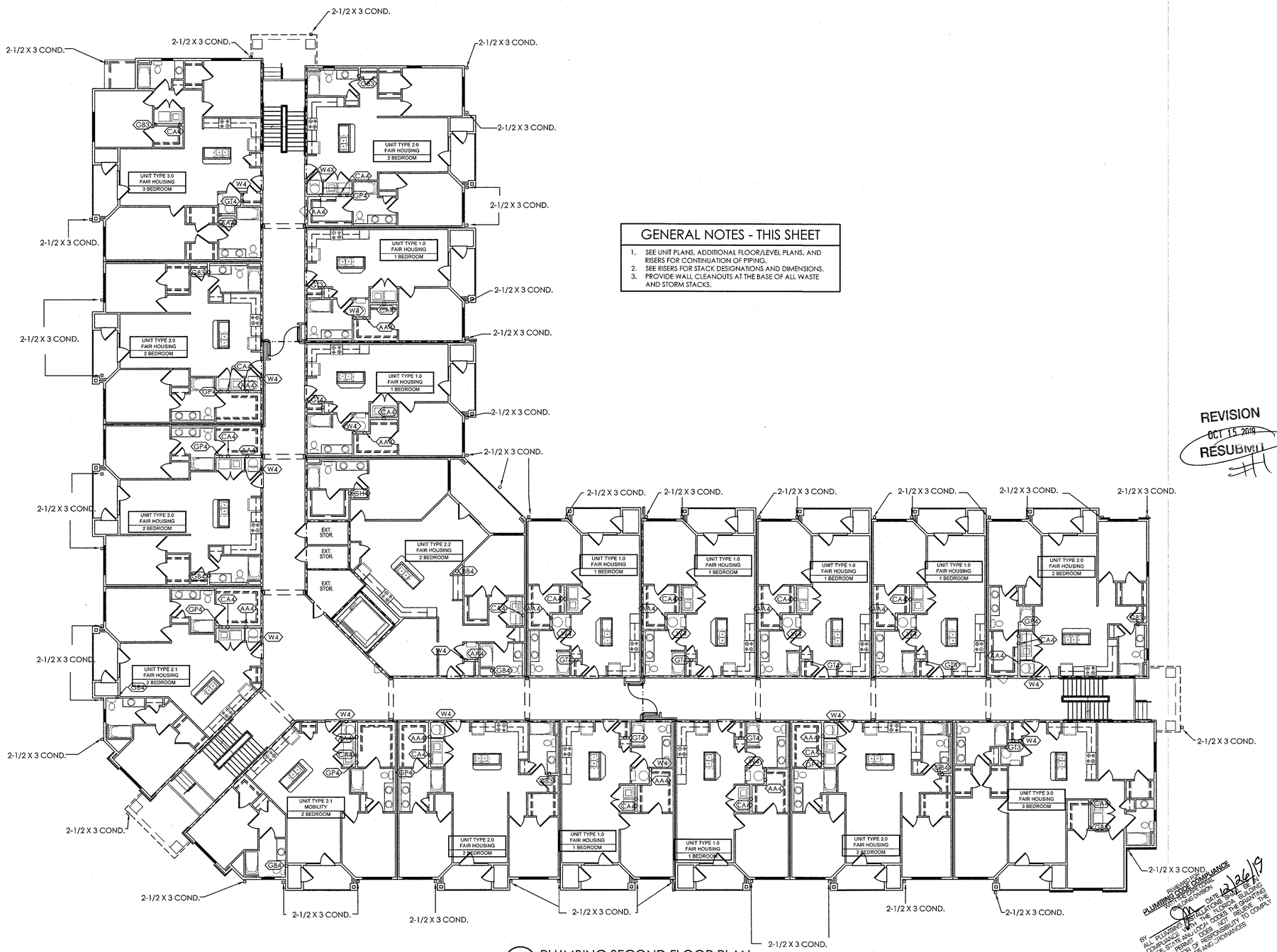
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	DESCRIPTION
NUMBER / DATE / INITIALS	Cycle 1 Permit Responses
10.04.19	

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING FIRST FLOOR PLAN
SHEET NUMBER: P1.10

10/8/2019 6:41 PM
PLX-1906-P110.DWG

FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.



GENERAL NOTES - THIS SHEET

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2. SEE RISERS FOR STACK DESIGNATIONS AND DIMENSIONS.
3. PROVIDE WALL CLEANOUTS AT THE BASE OF ALL WASTE AND STORM STACKS.

REVISION
OCT 15 2019
RESUBMIT

PLUMBING CODE COMPLIANCE
REVIEWED FOR
BY: ALL PLUMBING INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL AMENDMENTS. AN OF A PERMIT FOR THE PLUMBING DOES NOT RELIEVE THE CONTRACTOR OF DUTIES AND RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES
DATE 10/26/19

1 PLUMBING SECOND FLOOR PLAN

SCALE: 3/32" = 1'-0"

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FL COA #: 3316

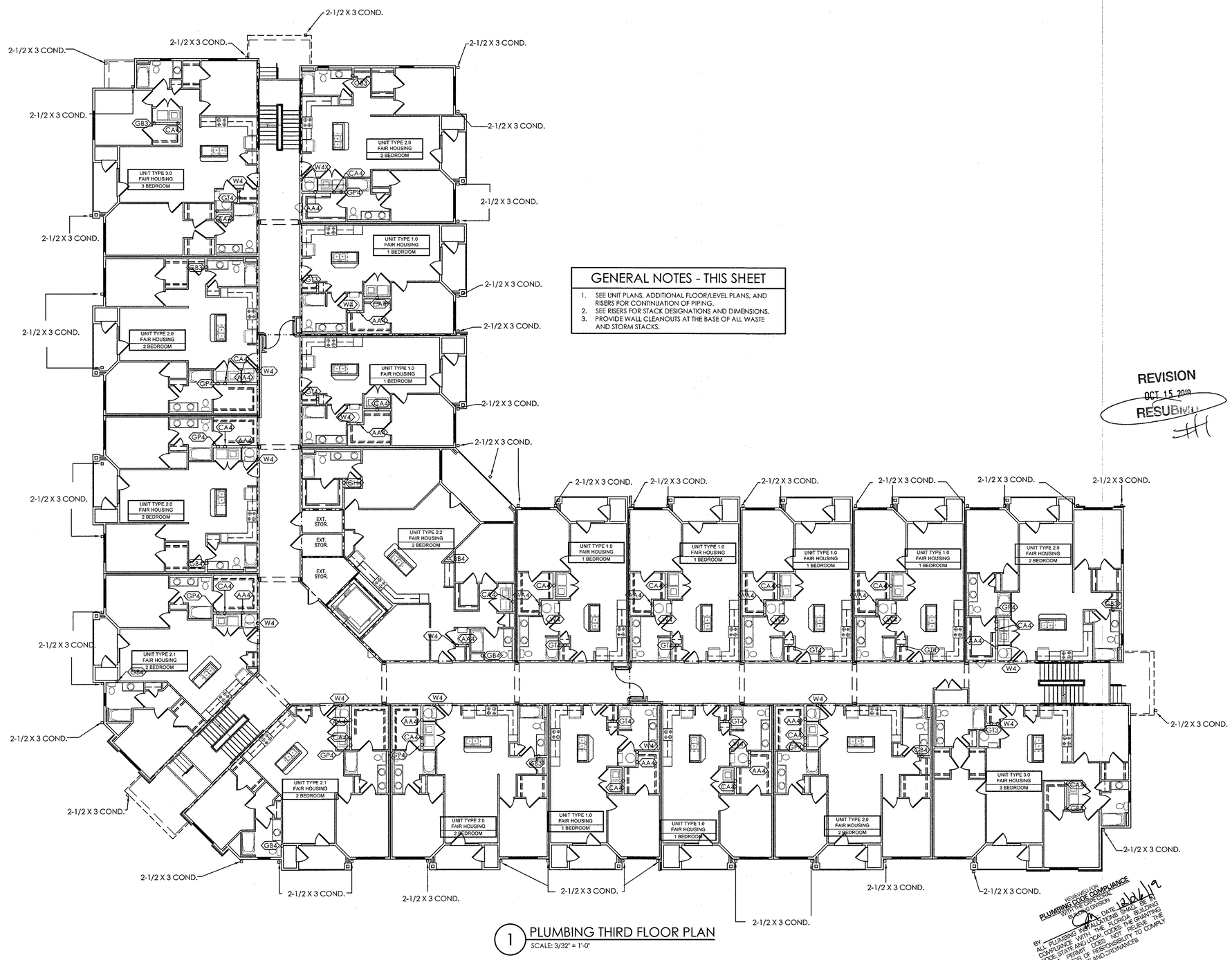
REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION

ISSUE DATE: 07.19.19

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING SECOND FLOOR PLAN
SHEET NUMBER: P1.11

10/8/2019 6:41 PM
PLX-1906-P111.DWG

FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.



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2. SEE RISERS FOR STACK DESIGNATIONS AND DIMENSIONS.
3. PROVIDE WALL CLEANOUTS AT THE BASE OF ALL WASTE AND STORM STACKS.

REVISION
OCT 15 2019
RESUBMIT

REVIEWED FOR PLUMBING CODE COMPLIANCE WITH THE FLORIDA BUILDING CODE
BY: DATE: 12/04/19
ALL PLUMBING INSTALLATIONS SHALL BE COMPLIANCE WITH LOCAL FLORIDA BUILDING CODE STATE AND LOCAL CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES

1 PLUMBING THIRD FLOOR PLAN
SCALE: 3/32" = 1'-0"

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12/9/19

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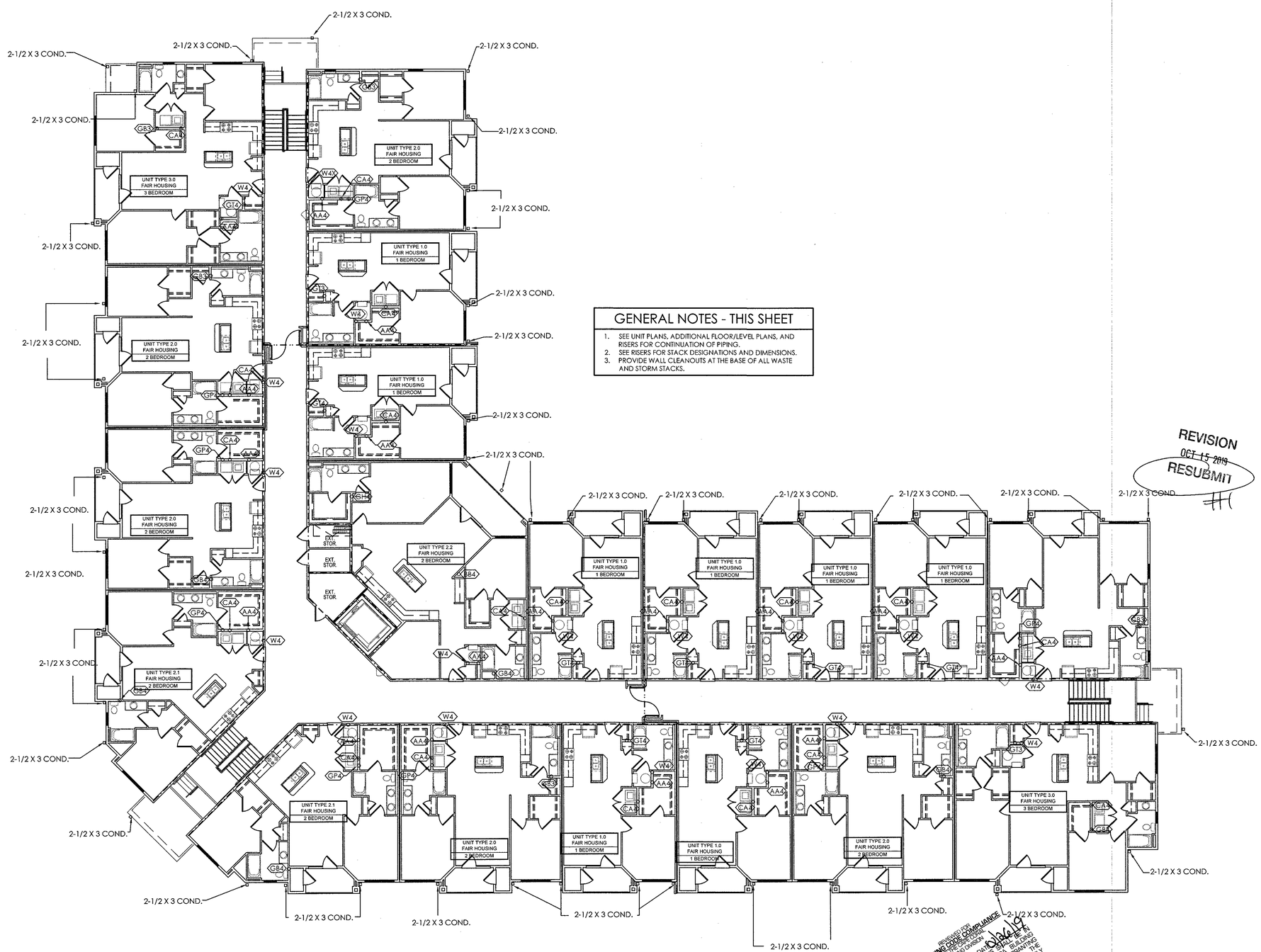
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING THIRD FLOOR PLAN
SHEET NUMBER: P1.12

10/8/2019 6:41 PM
PLX-1906-P112.DWG

FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.



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2. SEE RISERS FOR STACK DESIGNATIONS AND DIMENSIONS.
3. PROVIDE WALL CLEANOUTS AT THE BASE OF ALL WASTE AND STORM STACKS.

REVISION
OCT 15 2019
RESUBMIT

REVIEWED FOR PLUMBING CODE COMPLIANCE WITH THE FBC PLUMBING DIVISION
BY: Jack L. Tomlin 10/16/19
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1 PLUMBING FOURTH FLOOR PLAN
SCALE: 3/32" = 1'-0"

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10/7/19

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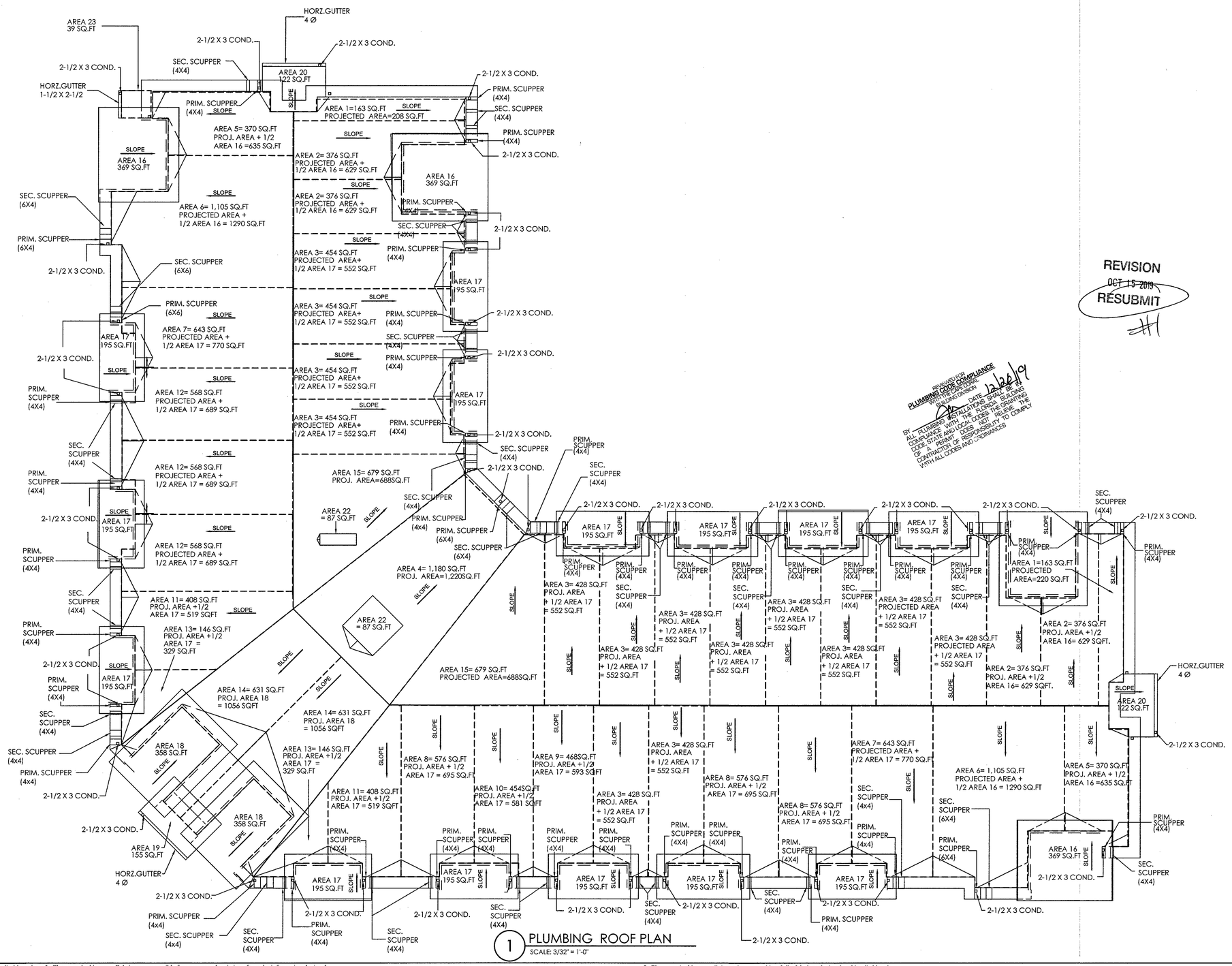
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING FOURTH FLOOR PLAN
SHEET NUMBER: P1.13

10/8/2019 6:41 PM
PLX-1906-P113.DWG



1 PLUMBING ROOF PLAN
SCALE: 3/32" = 1'-0"

REVISED FOR PLUMBING CODE COMPLIANCE
BY ____ DATE 12/26/19
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REVISION
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FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING ROOF PLAN
SHEET NUMBER: P1.14

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GUTTERS (HORIZ.)

DIAMETER (IN)	CAPACITY (GPM) RAINFALL RATE = 4.0 IN/HR
1-1/2 X 2-1/2	26
4	39
5	74

BASED UPON CHAPTER 11 OF THE 2017 FL PLUMBING CODE.
STORM DRAINAGE CALCULATED ASSUMING A 2% SLOPE.

RECTANGULAR CONDUCTORS (VERT.)

DIMENSIONS (IN)	CAPACITY (GPM) RAINFALL RATE = 4.5 IN/HR
2	30
2x2	30
1-1/2 x 2-1/2	30
2-1/2	54
2-1/2 x 2-1/2	54
2-1/2 x 3	92

BASED UPON CHAPTER 11 OF THE 2017 FL PLUMBING CODE.

REVIEWED FOR PLUMBING CODE COMPLIANCE VOID WITHOUT PROFESSIONAL BUILDING DIVISION
BY ..... DATE 10/26/19
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REVISION
OCT 15 2019
RESUBMIT
#1

SCUPPER CALCs (AREA 15)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	679
PARAPET 1 (OR SIMILAR) LENGTH (FT)	20.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	4.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	20.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	4.0
ROOF AREA +½ VERT. AREAS (SQFT)	759
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	35
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	35
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	3

SCUPPER CALCs (AREA 14)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	631
PARAPET 1 (OR SIMILAR) LENGTH (FT)	19.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	6.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	10.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	2.0
ROOF AREA +½ VERT. AREAS (SQFT)	698
PROJ AREA + UPPER ROOF AREA (SQFT)	**1056**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	33
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	33
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	3

SCUPPER CALCs (AREA 13)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	146
PARAPET 1 (OR SIMILAR) LENGTH (FT)	25.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	6.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	10.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 3 (OR SIMILAR) LENGTH (FT)	10.5
PARAPET 3 (OR SIMILAR) HEIGHT (FT)	4.0
ROOF AREA +½ VERT. AREAS (SQFT)	231
PROJ AREA + UPPER ROOF AREA (SQFT)	**329**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	11
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	11
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	2

SCUPPER CALCs (AREA 12)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	568
PARAPET 1 (OR SIMILAR) LENGTH (FT)	9.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	7.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	4.0
ROOF AREA +½ VERT. AREAS (SQFT)	591
PROJ AREA + UPPER ROOF AREA (SQFT)	**689**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	28
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	28
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	2

SCUPPER CALCs (AREA 11)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	408
PARAPET 1 (OR SIMILAR) LENGTH (FT)	3.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	4.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	7.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	2.0
ROOF AREA +½ VERT. AREAS (SQFT)	421
PROJ AREA + UPPER ROOF AREA (SQFT)	**519**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	20
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	20
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	2

SCUPPER CALCs (AREA 10)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	454
PARAPET 1 (OR SIMILAR) LENGTH (FT)	3.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	13.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	4.0
ROOF AREA +½ VERT. AREAS (SQFT)	483
PROJ AREA + UPPER ROOF AREA (SQFT)	**581**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	23
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	23
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	2

SCUPPER CALCs (AREA 9)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	468
PARAPET 1 (OR SIMILAR) LENGTH (FT)	5.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	11.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	4.0
ROOF AREA +½ VERT. AREAS (SQFT)	495
PROJ AREA + UPPER ROOF AREA (SQFT)	**592.5**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	23
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	23
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	2

SCUPPER CALCs (AREA 8)

BASED ON 2018 FLPC SEC 1106	
ROOF AREA (SQFT)	576
PARAPET 1 (OR SIMILAR) LENGTH (FT)	8.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	7.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	4.0
ROOF AREA +½ VERT. AREAS (SQFT)	598
PROJ AREA + UPPER ROOF AREA (SQFT)	**695**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	28
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	28
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	2

SCUPPER CALCs (AREA 7)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	643
PARAPET 1 (OR SIMILAR) LENGTH (FT)	10.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	10.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	4.0
ROOF AREA +½ VERT. AREAS (SQFT)	673
PROJ AREA + UPPER ROOF AREA (SQFT)	**770**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	31
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	31
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	3

SCUPPER CALCs (AREA 6)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	1022
PARAPET 1 (OR SIMILAR) LENGTH (FT)	20.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	21.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	6.0
ROOF AREA +½ VERT. AREAS (SQFT)	1105
PROJ AREA + UPPER ROOF AREA (SQFT)	**1290**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	52
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	52
SCUPPER DIMENSIONS (WxH, IN)	6 x 4
SELECTED HEAD (IN)	3

SCUPPER CALCs (AREA 5)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	370
PARAPET 1 (OR SIMILAR) LENGTH (FT)	38.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	14.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	6.0
ROOF AREA +½ VERT. AREAS (SQFT)	450
PROJ AREA + UPPER ROOF AREA (SQFT)	**635**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	21
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	21
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	2

SCUPPER CALCs (AREA 4)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	1180
PARAPET 1 (OR SIMILAR) LENGTH (FT)	18.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	4.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	18.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	4.0
ROOF AREA +½ VERT. AREAS (SQFT)	1252
PROJ AREA + UPPER ROOF AREA (SQFT)	**1350**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	59
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	59
SCUPPER DIMENSIONS (WxH, IN)	6 x 4
SELECTED HEAD (IN)	3

SCUPPER CALCs (AREA 3)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	428
PARAPET 1 (OR SIMILAR) LENGTH (FT)	2.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	4.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	8.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	4.0
PARAPET 3 (OR SIMILAR) LENGTH (FT)	2.0
PARAPET 3 (OR SIMILAR) HEIGHT (FT)	6.0
ROOF AREA +½ VERT. AREAS (SQFT)	454
PROJ AREA + UPPER ROOF AREA (SQFT)	**552**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	21
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	21
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	2

SCUPPER CALCs (AREA 2)

BASED ON 2017 FLPC SEC 1106	
ROOF AREA (SQFT)	376
PARAPET 1 (OR SIMILAR) LENGTH (FT)	5.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	13.0
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	6.0
PARAPET 3 (OR SIMILAR) LENGTH (FT)	8.0
PARAPET 3 (OR SIMILAR) HEIGHT (FT)	6.0
ROOF AREA +½ VERT. AREAS (SQFT)	444
PROJ AREA + UPPER ROOF AREA (SQFT)	**629**
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	21
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	21
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	2

SCUPPER CALCs (AREA 1)

BASED ON 2018 FLPC SEC 1106	
ROOF AREA (SQFT)	163
PARAPET 1 (OR SIMILAR) LENGTH (FT)	32.0
PARAPET 1 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 2 (OR SIMILAR) LENGTH (FT)	4.6
PARAPET 2 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 3 (OR SIMILAR) LENGTH (FT)	5.0
PARAPET 3 (OR SIMILAR) HEIGHT (FT)	2.0
PARAPET 4 (OR SIMILAR) LENGTH (FT)	3.0
PARAPET 4 (OR SIMILAR) HEIGHT (FT)	2.0
ROOF AREA +½ VERT. AREAS (SQFT)	208
60 MIN. RAINFALL RATE (IN/HR)	4.5
60 MIN. RAINFALL RATE (GPM)	10
# OF SCUPPERS	1
REQ'D GPM PER SCUPPER	10
SCUPPER DIMENSIONS (WxH, IN)	4 x 4
SELECTED HEAD (IN)	2

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website www.planworx.com

JACK L. TOMLIN LICENSE No.79002 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/7/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

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LIC.#: P-0990
FL COA #: 3316
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19		
REVISIONS		
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING ROOF CALCS
SHEET NUMBER: P1.15

10/08/2019 6:41 PM
PLX-1906-P1.15.DWG

NOTE:
WATER HEATER IS TO BE NO MORE THAN 32" TALL IN UNITS WITH STACKED WATER HEATERS AND AIR HANDLERS IN THE SAME MECHANICAL CLOSET.

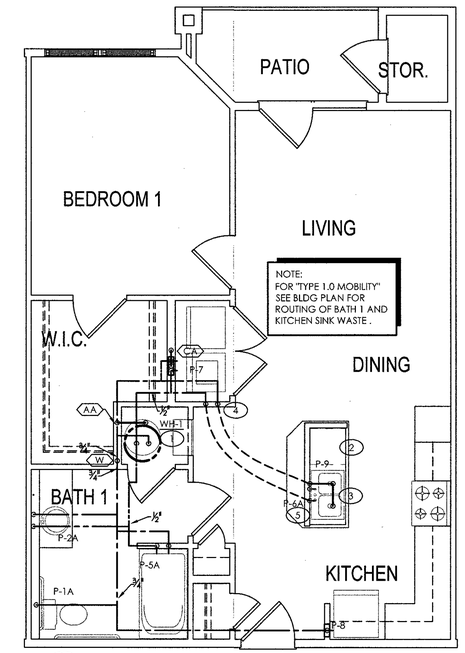
NOTE:
MECHANICAL CLOSET OF TYPE 2.0 & 2.1 UNITS IS A RETURN PLENUM. ALL MATERIALS MUST BE PLENUM RATED. WATER AND DRAIN PIPING TO BE COPPER OR PLENUM RATED CPVC; NO PVC, NO PEX. DRAIN PAN MUST BE METAL; NO PLASTIC. HUB DRAIN MUST BE METAL; NO PLASTIC.

TAGGED NOTES - THIS SHEET

1. WATER HEATER BELOW HVAC UNIT IN CLOSET. DRAIN TO AREA HUB DRAIN. SEE DETAIL. COORDINATE EXACT LOCATION WITH M.C. AND AREA MECHANICAL EQUIPMENT. COORDINATE EXACT HUB DRAIN LOCATION WITH WATER HEATER DRAIN PAN; MUST BE VISIBLE AND ACCESSIBLE.
2. PROVIDE DISHWASHER CONNECTIONS.
3. PROVIDE GARBAGE DISPOSAL CONNECTION. ENSURE KNEE CLEARANCES ARE MAINTAINED IN ADA UNITS.
4. HW/CW DOWN IN WALL TO BELOW FLOOR.
5. HW/CW UP FROM BELOW FLOOR TO KITCHEN SINK.
6. P.C. TO ENSURE THAT DISTANCE FROM TRAP TO VENT DOES NOT EXCEED 8FT.
7. NOT USED.

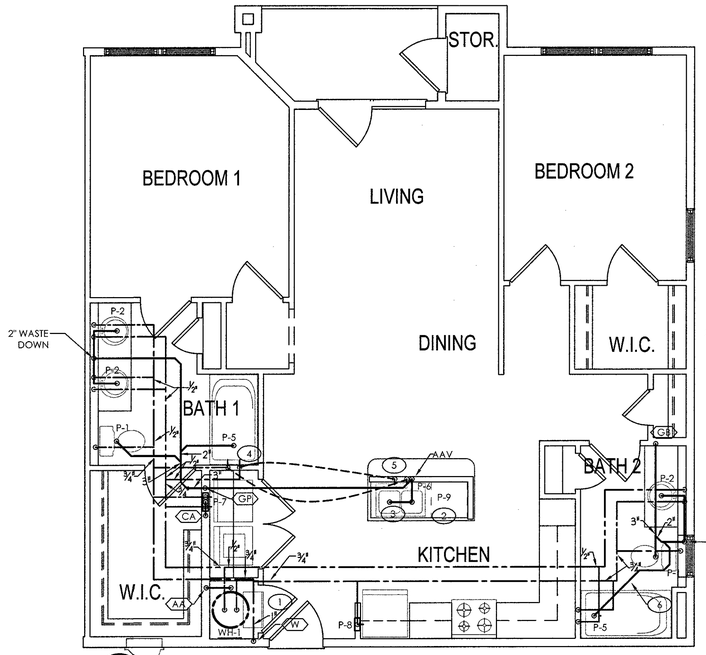
GENERAL NOTES - THIS SHEET

1. SEE OVERALL BUILDING PLANS FOR ROUTING OF MAIN WATER AND SEWER PIPING.
2. SEE BUILDING PLANS AND RISER SHEETS FOR CONTINUATIONS OF RISER TAGS AND ADDITIONAL INFORMATION.
3. SEE RISERS FOR STACK DESIGNATIONS AND DIMENSIONS.
4. WATER PIPING IS NOT TO BE SHARED BETWEEN UNITS.
5. SEE BUILDING PLANS FOR RATED WALL AND FLOOR INFORMATION.
6. P.C. TO ENSURE SHUT-OFF VALVES IN MECHANICAL CLOSETS WILL BE ACCESSIBLE ONCE AIR HANDLER IS INSTALLED.
7. P.C. TO ENSURE WASTE/VENT/WATER STACK LOCATIONS DO NOT INTERFERE WITH MECHANICAL DUCTWORK.
8. MECHANICAL CLOSET HUB DRAIN TO RUN TO STORM SEWER NO P-TRAP REQUIRED.

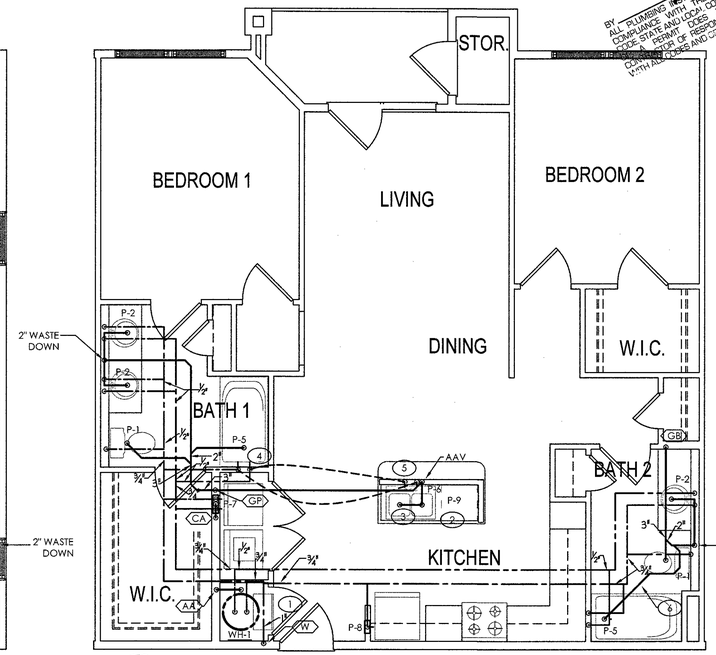


4 PLUMBING UNIT PLAN - TYPE 1.0 MOBILITY
SCALE: 1/4" = 1'-0"

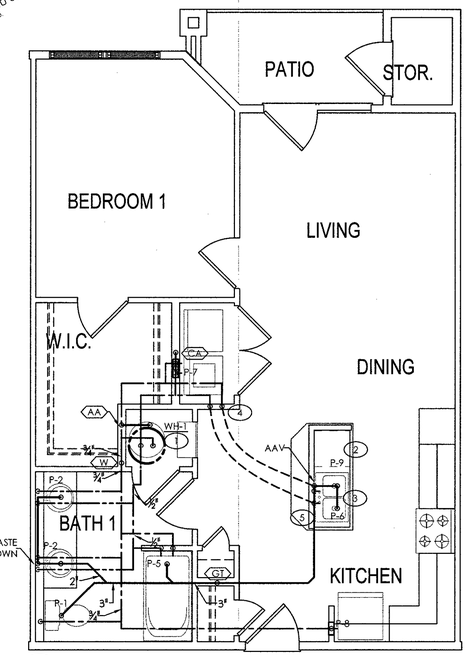
REVIEWED FOR PLUMBING CODE COMPLIANCE WITH THE FBC, PLUMBING DIVISION
BY 2nd 12/26/19
ALL PLUMBING INSTALLATIONS SHALL BE COMPLIANCE WITH THE FLORIDA BUILDING CODE-STATE AND LOCAL CODES. THE PLUMBING PERMIT DOES NOT RELIEVE THE OWNER OR CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES



3 PLUMBING UNIT PLAN - TYPE 2.0 FAIR HOUSING END UNIT
SCALE: 1/4" = 1'-0"



2 PLUMBING UNIT PLAN - TYPE 2.0 FAIR HOUSING INTERIOR
SCALE: 1/4" = 1'-0"



1 PLUMBING UNIT PLAN - TYPE 1.0 FAIR HOUSING
SCALE: 1/4" = 1'-0"

1. All drawings are to be coordinated with all site information by owner and contractor, and applicable codes.
2. Contractor is to notify architect immediately of conditions or items varying from depicted information.
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6. Planworx Architecture, P.A. is not responsible for estimating, maintaining, or regulating construction costs associated with these plans.

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REVISION
OCT 15, 2019
RESUBMIT

JACK L. TOMLIN LICENSE No.79002 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/26/19

SURFSIDE CORNER
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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19	
REVISIONS		
NUMBER	DATE	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT

SHEET TITLE:
PLUMBING UNIT PLANS

SHEET NUMBER:
P1.30

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NOTE:
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TAGGED NOTES - THIS SHEET

1. WATER HEATER BELOW HVAC UNIT IN CLOSET. DRAIN TO AREA HUB DRAIN. SEE DETAIL. COORDINATE EXACT LOCATION WITH M.C. AND AREA MECHANICAL EQUIPMENT. COORDINATE EXACT HUB DRAIN LOCATION WITH WATER HEATER DRAIN PAN; MUST BE VISIBLE AND ACCESSIBLE.
2. PROVIDE DISHWASHER CONNECTIONS.
3. PROVIDE GARBAGE DISPOSAL CONNECTION. ENSURE KNEE CLEARANCES ARE MAINTAINED IN ADA UNITS.
4. HW/CW DOWN IN WALL TO BELOW FLOOR.
5. HW/CW UP FROM BELOW FLOOR TO KITCHEN SINK.
6. P.C. TO ENSURE THAT DISTANCE FROM TRAP TO VENT DOES NOT EXCEED 8FT.
7. NOT USED.

GENERAL NOTES - THIS SHEET

1. SEE OVERALL BUILDING PLANS FOR ROUTING OF MAIN WATER AND SEWER PIPING.
2. SEE BUILDING PLANS AND RISER SHEETS FOR CONTINUATIONS OF RISER TAGS AND ADDITIONAL INFORMATION.
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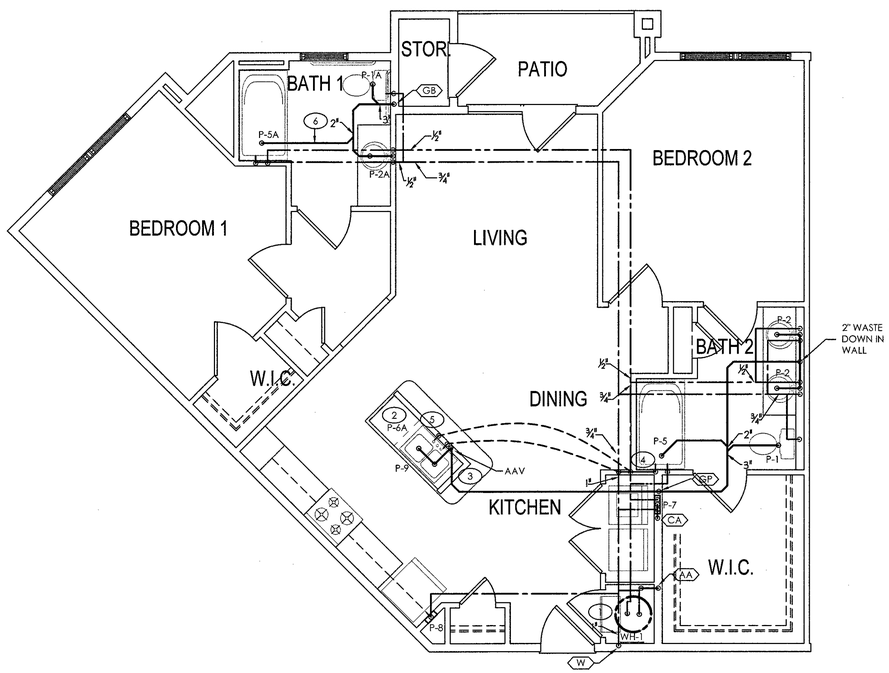
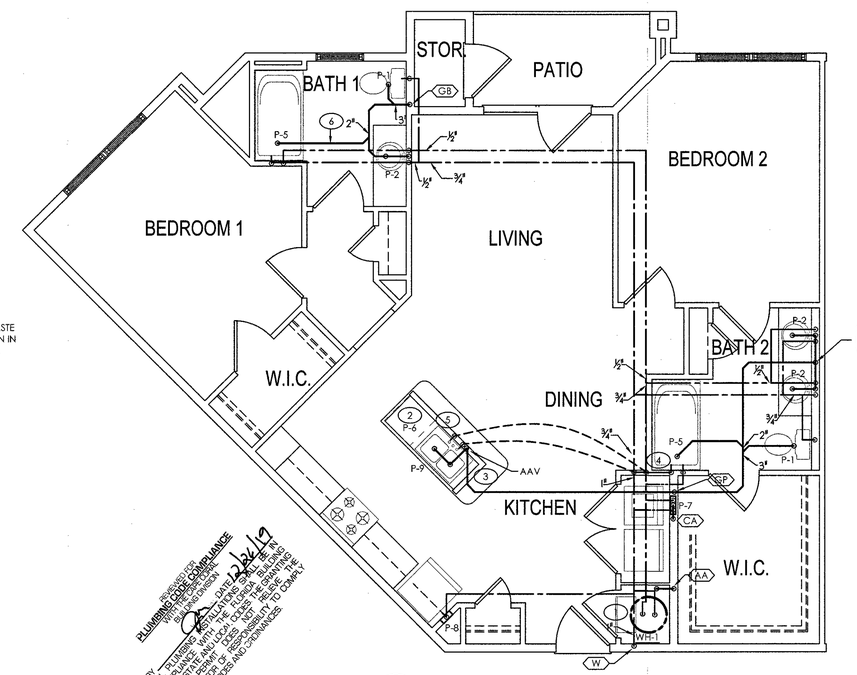
8. MECHANICAL CLOSET HUB DRAIN TO RUN TO STORM SEWER NO P-TRAP REQUIRED.



2 PLUMBING UNIT PLAN - TYPE 2.1 MOBILITY
SCALE: 1/4" = 1'-0"



1 PLUMBING UNIT PLAN - TYPE 2.1 FAIR HOUSING
SCALE: 1/4" = 1'-0"

REVIEWED FOR PLUMBING CODE COMPLIANCE WITH NC RESIDENTIAL CODE
BY: 12/6/19
ALL PLUMBING WORK TO BE IN COMPLIANCE WITH THE 2018 NC RESIDENTIAL BUILDING CODE, STATE AND LOCAL AMENDMENTS. DATE
A PERMIT FOR THE PLUMBING WORK IS NOT A CERTIFICATION OF COMPLIANCE. THE CONTRACTOR IS SOLELY RESPONSIBLE TO COMPLY WITH ALL CODES AND ORDINANCES.

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REVISION
OCT 15 2019
RESUBMIT

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11/7/19

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CAPE CORAL, FLORIDA
PERMIT SET

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RALEIGH, NC 27605
P:919-341-4247 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING UNIT PLANS
SHEET NUMBER: P1.31

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PLX-1906-P1.31.DWG

NOTE:
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TAGGED NOTES - THIS SHEET

1. WATER HEATER BELOW HVAC UNIT IN CLOSET. DRAIN TO AREA HUB DRAIN. SEE DETAIL. COORDINATE EXACT LOCATION WITH M.C. AND AREA MECHANICAL EQUIPMENT. COORDINATE EXACT HUB DRAIN LOCATION WITH WATER HEATER DRAIN PAN; MUST BE VISIBLE AND ACCESSIBLE.
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3. PROVIDE GARBAGE DISPOSAL CONNECTION. ENSURE KNEE CLEARANCES ARE MAINTAINED IN ADA UNITS.
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5. HW/CW UP FROM BELOW FLOOR TO KITCHEN SINK.
6. P.C. TO ENSURE THAT DISTANCE FROM TRAP TO VENT DOES NOT EXCEED 8FT.
7. NOT USED.

GENERAL NOTES - THIS SHEET

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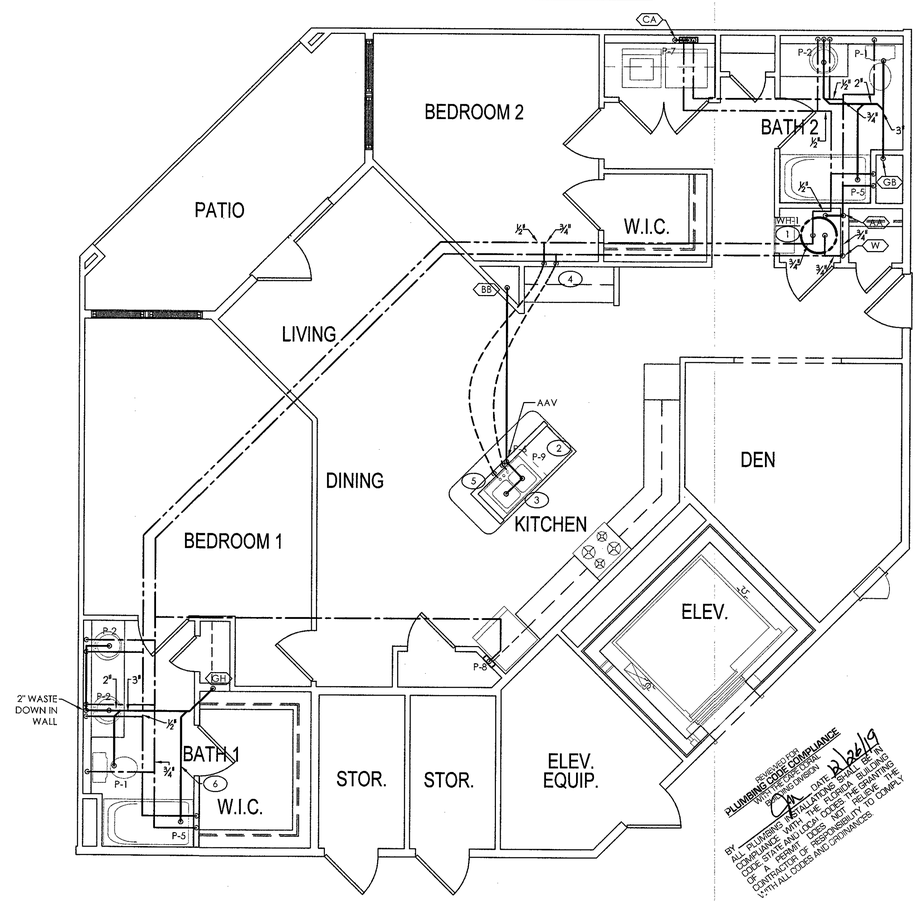
REVISION
OCT 15 2019
RESUBMIT



1 PLUMBING UNIT PLAN - TYPE 2.2 FAIR HOUSING
SCALE: 1/4" = 1'-0"

PLUMBING CODE COMPLIANCE
VISUALLY INSPECTED FOR PLUMBING CODE COMPLIANCE
BY: ALL PLUMBING INSTALLATIONS SHALL BE IN CONFORMANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL CODES. THE PLUMBING CONTRACTOR IS NOT RESPONSIBLE FOR THE DRAWING, BUT IS RESPONSIBLE TO COMPLY WITH ALL CODES AND ORDINANCES.
DATE: 10/28/19

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10/2/19

SURFSIDE CORNER
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FL COA #: 3316
LIC.#: P-0990
F:919-832-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	DESCRIPTION	INITIALS

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING UNIT PLANS
SHEET NUMBER: P1.32

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PLX-1906-P132.DWG

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NOTE:
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TAGGED NOTES - THIS SHEET

1. WATER HEATER BELOW HVAC UNIT IN CLOSET. DRAIN TO AREA HUB DRAIN. SEE DETAIL. COORDINATE EXACT LOCATION WITH M.C. AND AREA MECHANICAL EQUIPMENT. COORDINATE EXACT HUB DRAIN LOCATION WITH WATER HEATER DRAIN PAN; MUST BE VISIBLE AND ACCESSIBLE.
2. PROVIDE DISHWASHER CONNECTIONS.
3. PROVIDE GARBAGE DISPOSAL CONNECTION. ENSURE KNEE CLEARANCES ARE MAINTAINED IN ADA UNITS.
4. HW/CW DOWN IN WALL TO BELOW FLOOR.
5. HW/CW UP FROM BELOW FLOOR TO KITCHEN SINK.
6. NOT USED.
7. SEE BUILDING PLAN FOR COMPLETE ROUTING AND CONTINUATION OF WASTE.

GENERAL NOTES - THIS SHEET

1. SEE OVERALL BUILDING PLANS FOR ROUTING OF MAIN WATER AND SEWER PIPING.
2. SEE BUILDING PLANS AND RISER SHEETS FOR CONTINUATIONS OF RISER TAGS AND ADDITIONAL INFORMATION.
3. SEE RISERS FOR STACK DESIGNATIONS AND DIMENSIONS.
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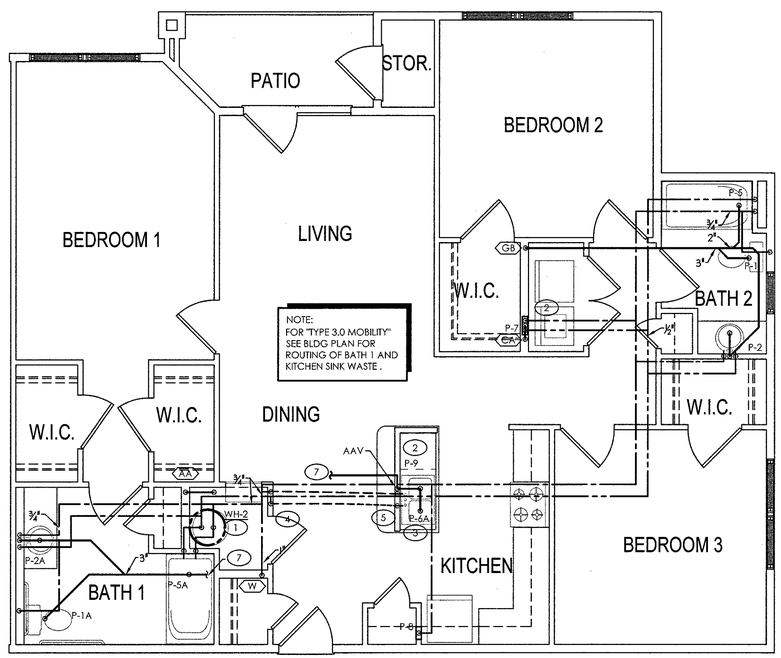
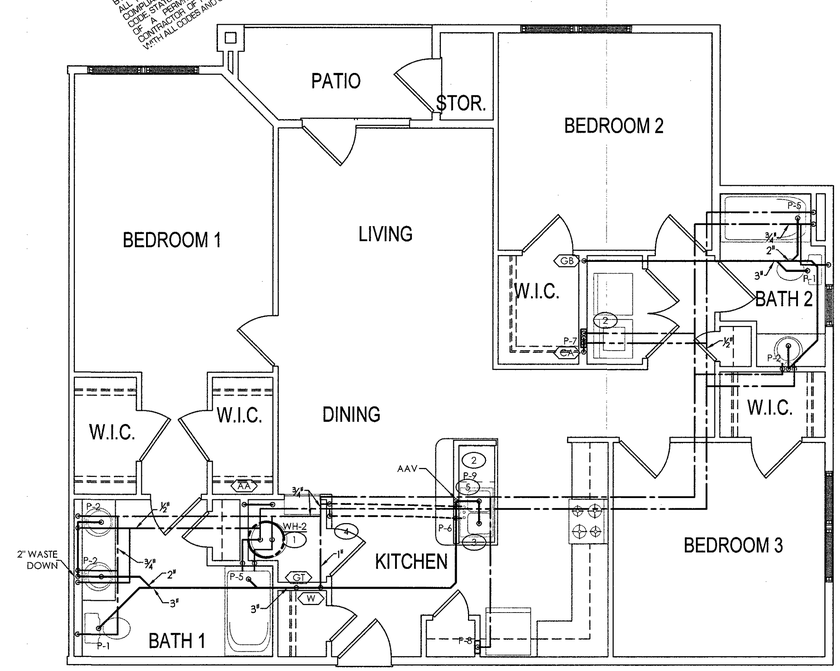
8. MECHANICAL CLOSET HUB DRAIN TO RUN TO STORM SEWER NO P-TRAP REQUIRED.

REVISED FOR PLUMBING CODE COMPLIANCE WITH THE FOLLOWING COMMENTS
BY: _____ DATE: 12/6/19
ALL PLUMBING INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE 2014 NEC AND LOCAL CODES. THE SIGNING OF THESE PLANS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES



2 PLUMBING UNIT PLAN - TYPE 3.0 MOBILITY
SCALE: 1/4" = 1'-0"



1 PLUMBING UNIT PLAN - TYPE 3.0 FAIR HOUSING
SCALE: 1/4" = 1'-0"

REVISION
OCT 15 2019
RESUBMIT
#1

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10/9/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

MAPLE ENGINEERING, PLLC
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P:919-341-4247
LIC.#: P-0990
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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING UNIT PLANS
SHEET NUMBER: P1.33

10/8/2019 6:42 PM
PLX-1906-P1.33.DWG

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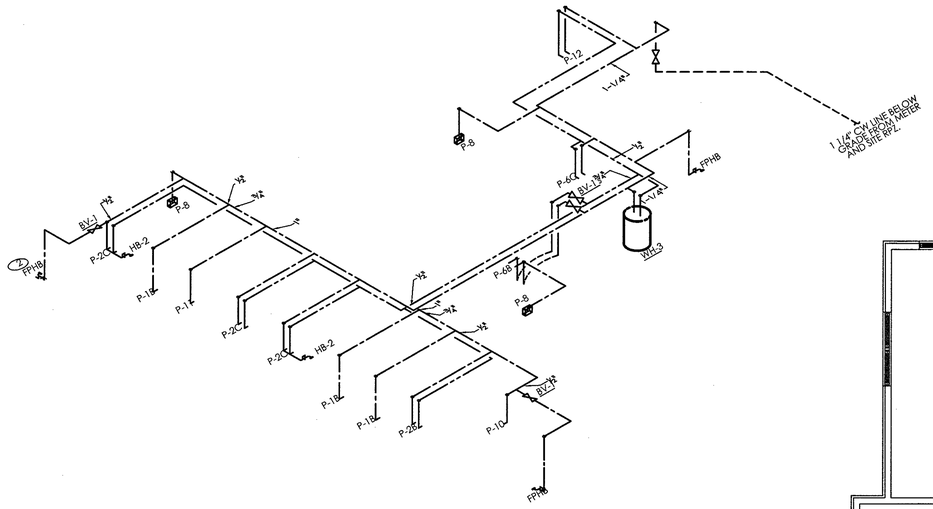
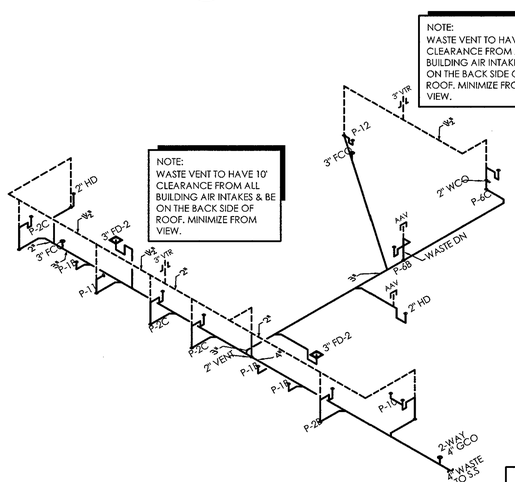


3 CLUBHOUSE - WATER RISER
NO SCALE



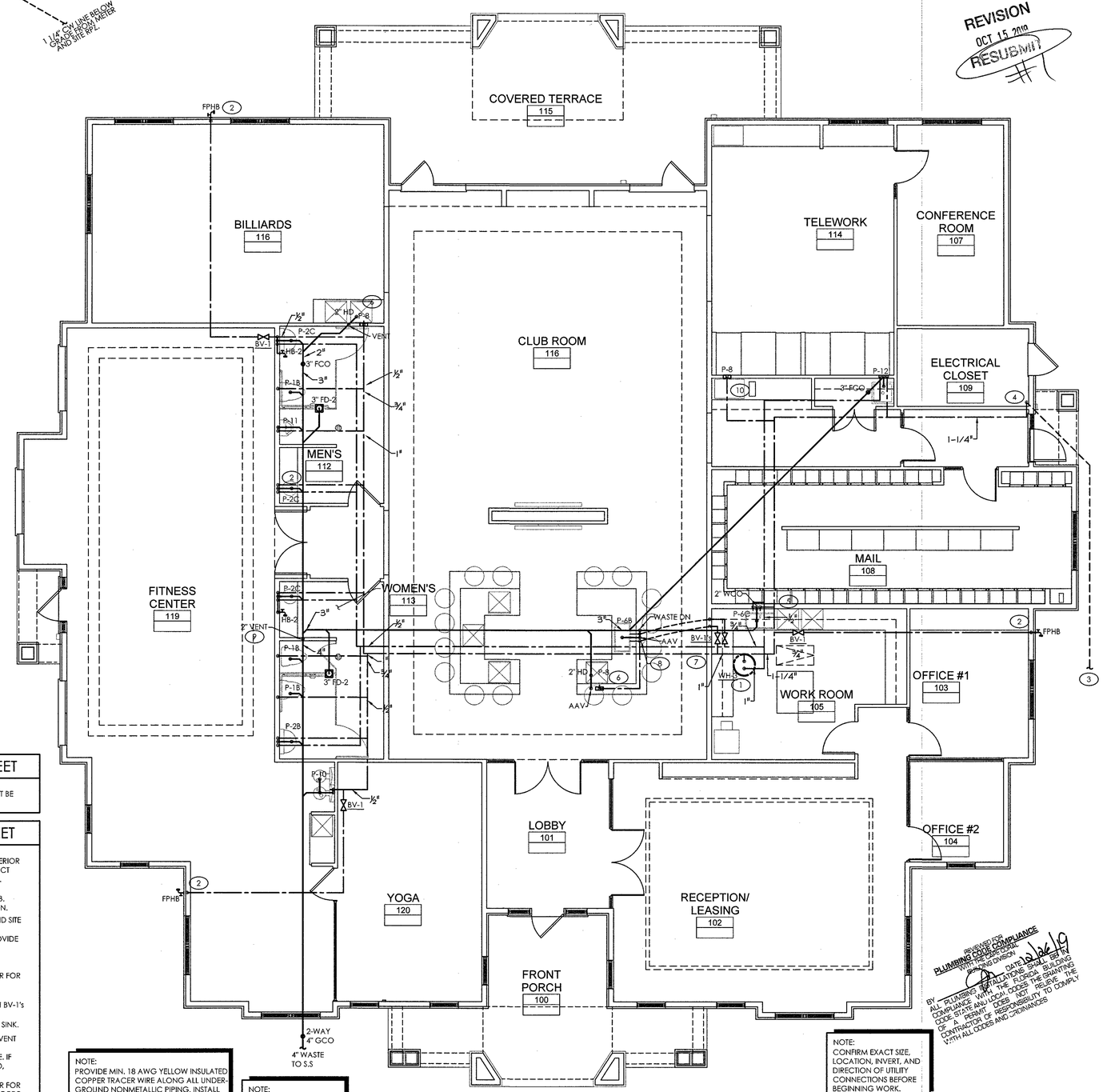
2 CLUBHOUSE - WASTE & VENT RISER
NO SCALE

GENERAL NOTES - THIS SHEET

1. WATER SERVICE AND BUILDING SEWER PIPING MUST BE SEPARATED PER 2017 FLPC 603.2.

TAGGED NOTES - THIS SHEET

1. WATER HEATER, ABOVE IN ATTIC. DRAIN TO EXTERIOR AWAY FROM FOOT TRAFFIC. COORDINATE EXACT LOCATION WITH M.C. AND AREA MECHANICAL EQUIPMENT.
2. CW DOWN IN WALL TO FREEZE-PROOF HOSE BIB. ENSURE PIPING IS ON WARM SIDE OF INSULATION.
3. 1 1/4" CW LINE BELOW GRADE FROM METER AND SITE RPZ.
4. CW UP FROM BELOW SLAB TIGHT TO WALL. PROVIDE W/BV-1 LOW ON WALL.
5. PROVIDE DISHWASHER CONNECTIONS.
6. PROVIDE IN-LINE WATER FILTER BELOW COUNTER FOR ICE MAKER. ENSURE FILTER IS ACCESSIBLE FOR REPLACEMENT/REPAIR.
7. HW/CW DOWN TO BELOW SLAB. PROVIDE WITH BV-1's & EXTEND HW/CW BELOW SLAB TO BAR AREA
8. HW/CW UP WALL FROM BELOW SLAB TO SERVE SINK.
9. PORTION OF BRANCH LINE IS PART OF CIRCUIT VENT SYSTEM. MAXIMUM SLOPE 8%. TURN DOWN AS NECESSARY AFTER MOST DOWNSTREAM FIXTURE. IF SLOPE REQUIREMENTS CANNOT BE MAINTAINED, ADDITIONAL VENTS WILL BE REQUIRED.
10. PROVIDE IN-LINE WATER FILTER BELOW COUNTER FOR COFFEE MACHINE. ENSURE FILTER IS ACCESSIBLE FOR REPLACEMENT/REPAIR.



NOTE:
PROVIDE MIN. 18 AWG YELLOW INSULATED COPPER TRACER WIRE ALONG ALL UNDER-GROUND NONMETALLIC PIPING. INSTALL ON ALL WASTE PIPING UPSTREAM OF CLEANOUT AT BUILDING DRAIN/BUILDING SEWER CONNECTION. TERMINATE WIRE AT 2-WAY GRADE CLEANOUT. INSTALL PER 2017 FLFGC 404.17.3.

NOTE:
CONFIRM EXACT SIZE, LOCATION, INVERT, AND DIRECTION OF UTILITY CONNECTIONS BEFORE BEGINNING WORK.

NOTE:
CONFIRM EXACT SIZE, LOCATION, INVERT, AND DIRECTION OF UTILITY CONNECTIONS BEFORE BEGINNING WORK.

1 PLUMBING PLAN - CLUBHOUSE
SCALE: 3/16" = 1'-0"

REVISION
OCT 15 2019
RESUBMIT

REVIEWED FOR PLUMBING CODE COMPLIANCE
WITH THE LOCAL
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BY _____ DATE 10/16/19
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10/7/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19	DESCRIPTION

REVISIONS		
NUMBER	DATE	INITIALS

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING CLUBHOUSE
SHEET NUMBER: P2.10

10/8/2019 4:49 PM
PLX-1906-P210.DWG

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GENERAL NOTES - THIS SHEET

1. WATER SERVICE AND BUILDING SEWER PIPING MUST BE SEPARATED PER 2017 FLPC 603.2.

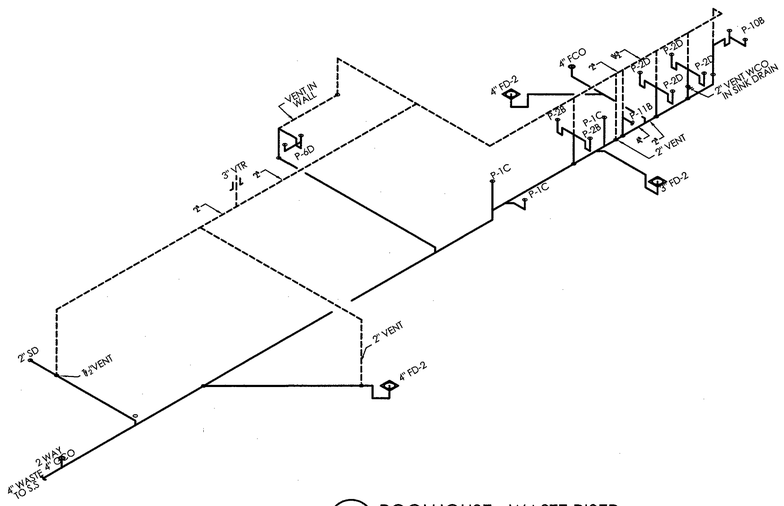
TAGGED NOTES - THIS SHEET

1. WATER HEATER, ABOVE IN ATTIC. DRAIN TO EXTERIOR AWAY FROM FOOT TRAFFIC. COORDINATE EXACT LOCATION WITH M.C. AND AREA MECHANICAL EQUIPMENT.
2. CW DOWN IN WALL TO FREEZE-PROOF HOSE BIB. ENSURE PIPING IS ON WARM SIDE OF INSULATION. PROVIDE WITH BV-1 IN ACCESS PANEL, LOW ON WALL.
3. 1-1/4" CW LINE BELOW GRADE FROM METER AND SITE RPZ.
4. CW UP TIGHT TO WALL TO ABOVE CEILING FROM BELOW SLAB. PROVIDE W/BV-1 LOW ON WALL.
5. BACKFLOW PREVENTER, BFP-1, LOCATED ALONG WALL FOR POOL EQUIPMENT. DRAIN TO FLOOR DRAIN IN AREA. ENSURE REQ'D CLEARANCES CAN BE MAINTAINED.
6. 1" CW TO POOL EQUIPMENT. COORDINATE WITH POOL CONTRACTOR.
7. SUMP PIT. COORDINATE EXACT LOCATION WITH POOL EQUIPMENT AND POOL CONTRACTOR.
8. WASTE LINE FROM SUMP PIT IS LOWER THAN WASTE FROM FIXTURES. WASTE FROM FIXTURES TO DROP VERTICALLY IN AREA TO CONNECT TO WASTE LINE FROM SUMP PIT. SEE RISER.
9. P.C. TO ENSURE SHOWER DRAIN IS LOCATED BELOW PERMANENT AWNING. COORDINATE WITH ARCHITECT.
10. 2" WASTE DOWN IN WALL.
11. PORTION OF BRANCH LINE IS PART OF CIRCUIT VENT SYSTEM. MAXIMUM SLOPE 8%. TURN DOWN AS NECESSARY AFTER MOST DOWNSTREAM FIXTURE. IF SLOPE REQUIREMENTS CANNOT BE MAINTAINED, ADDITIONAL VENTS WILL BE REQUIRED.
12. CW/HW DOWN IN WALL TO BELOW SLAB.
13. CW/HW UP TO SINK FROM BELOW SLAB.
14. CW DOWN IN WALL TO FREEZE-PROOF HOSE BIB. ENSURE PIPING IS ON WARM SIDE OF INSULATION.

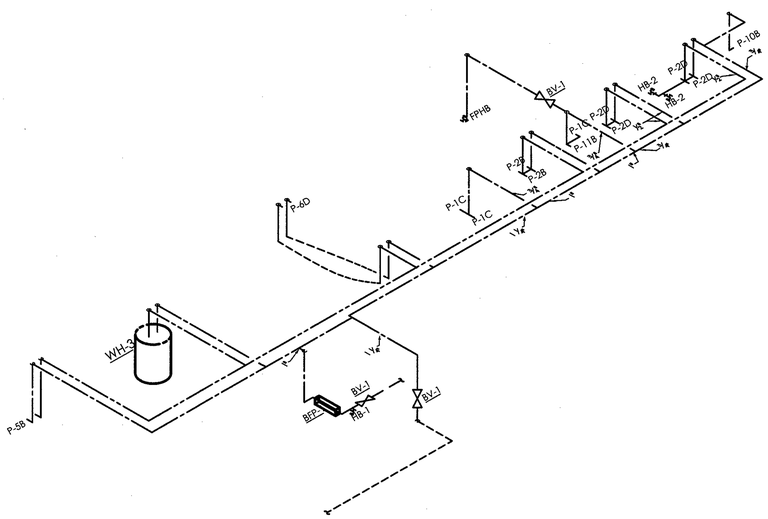
FIRE RATING LEGEND

1-HR WALL

* POOL EQUIPMENT AND CHEMICAL ROOM CEILING IS 1-HR RATED.



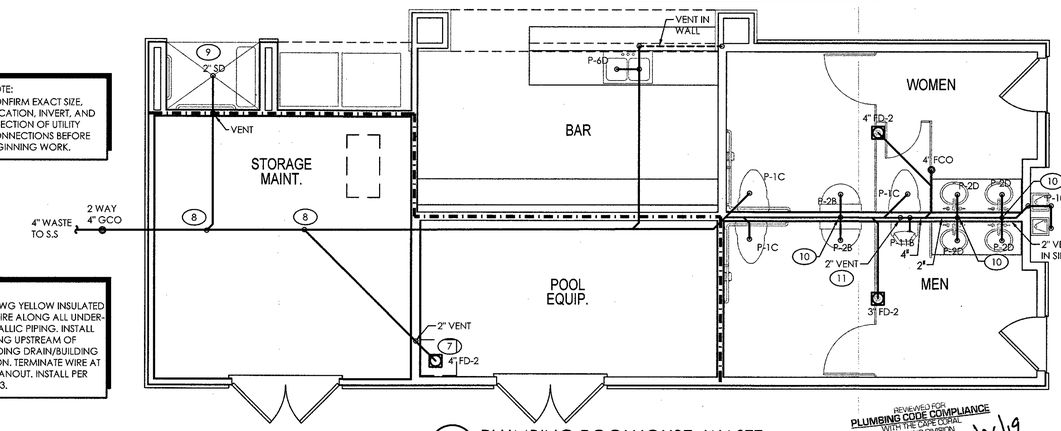
4 POOLHOUSE - WASTE RISER
NO SCALE



3 POOLHOUSE - WATER RISER
NO SCALE

NOTE:
CONFIRM EXACT SIZE, LOCATION, INVERT, AND DIRECTION OF UTILITY CONNECTIONS BEFORE BEGINNING WORK.

NOTE:
PROVIDE MIN. 18 AWG YELLOW INSULATED COPPER TRACER WIRE ALONG ALL UNDER-GROUND NONMETALLIC PIPING. INSTALL ON ALL WASTE PIPING UPSTREAM OF CLEANOUT AT BUILDING DRAIN/BUILDING SEWER CONNECTION. TERMINATE WIRE AT 2-WAY GRADE CLEANOUT. INSTALL PER 2017 FLFGC 404.17.3.



2 PLUMBING POOLHOUSE- WASTE
SCALE: 1/4" = 1'-0"

REVIEWED FOR PLUMBING CODE COMPLIANCE WITH THE DADE COUNTY BUILDING DIVISION
BY _____ DATE 12/26/19
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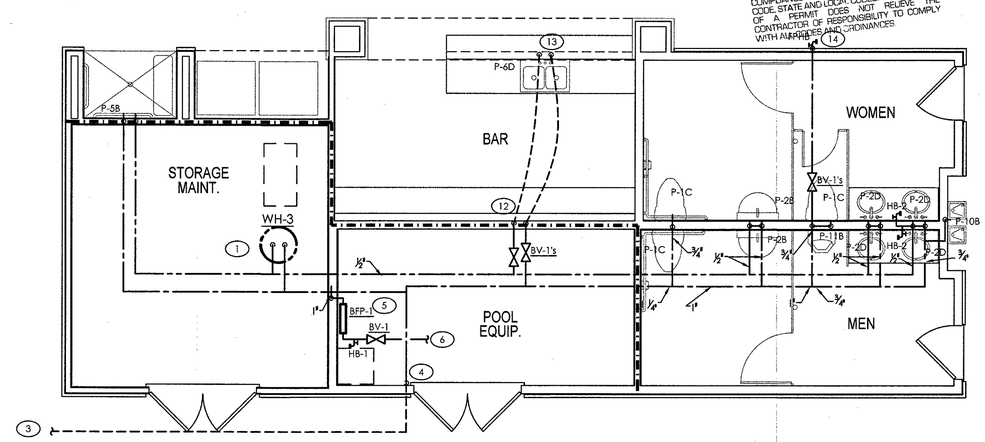

NOTE:
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1 PLUMBING POOLHOUSE- WATER
SCALE: 1/4" = 1'-0"

DEC 20 2019
RESUBMIT #3

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12/17/19

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P:919-341-4247
L.I.C.#: P-0993
F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	DESCRIPTION
NUMBER / DATE / INITIALS	
1 12.2.19	Cycle 2 Permit Responses.
2 12.13.19	Cycle 3 Permit Responses.

PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE: PLUMBING POOLHOUSE PLANS
SHEET NUMBER: P3.10

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12/16/2019 4:03 PM
PLX-1906-P310.DWG

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REVISION
~~OCT 15 2019~~
RESUBMIT
#1

TAGGED NOTES - THIS SHEET

1. YARD HYDRANT W/ INTEGRAL BACKFLOW PROTECTION.
2. PROVIDE VALVE BOX & SHUTOFF UPSTREAM OF YARD HYDRANT IN GROUND.

REVIEWED FOR
PLUMBING CODE COMPLIANCE
LEE COUNTY DIVISION
OF PLANNING
BY: _____ DATE: 12/26/19
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NOTE:
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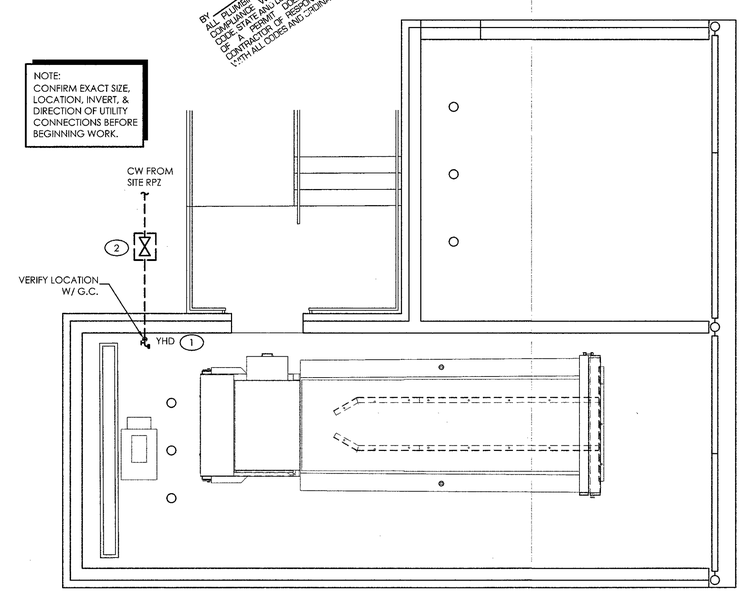

1 PLUMBING PLAN - TRASH COMPACTOR
SCALE: 1/4" = 1'-0"

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1/7/19

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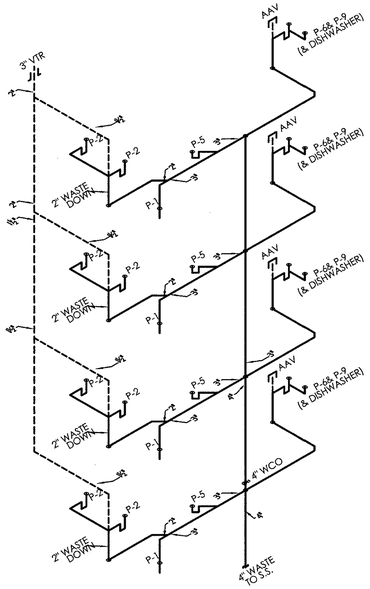
P:919-341-4247
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	DESCRIPTION
NUMBER / DATE / INITIALS	

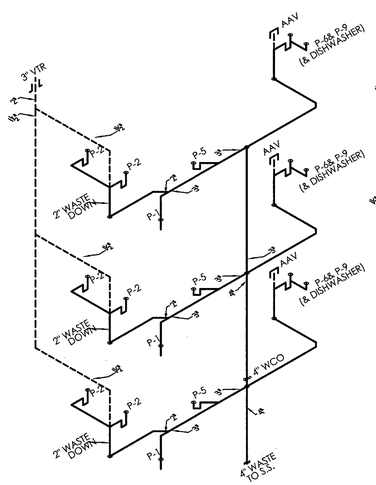
PROJECT NO: PLX-1906
DRAWN BY: JJL
CHECKED BY: ZLT
SHEET TITLE:
PLUMBING COMPACTOR PLANS
SHEET NUMBER:
P3.20

10/8/2019 6:42 PM
PLX-1906-P320.DWG



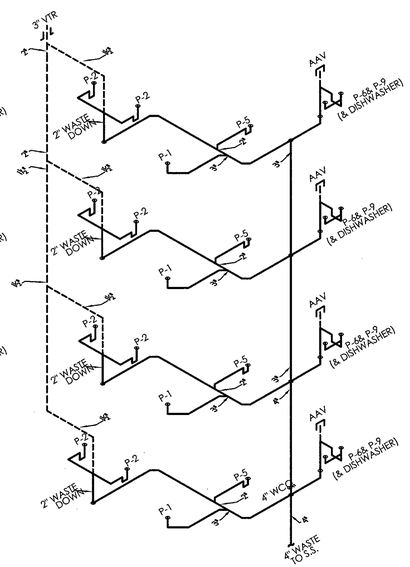
GT4

(32 DFUs, 4 WCs)



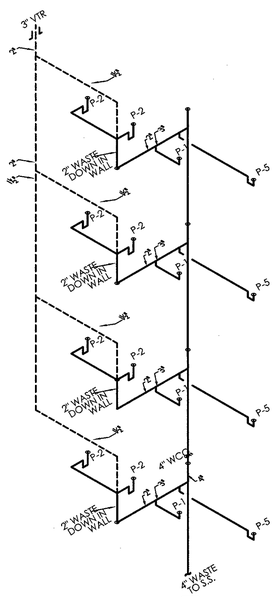
GT3

(24 DFUs, 3 WCs)



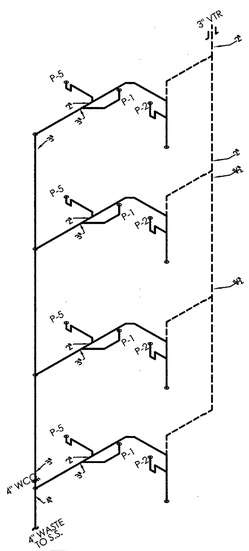
GP4

(32 DFUs, 4 WCs)



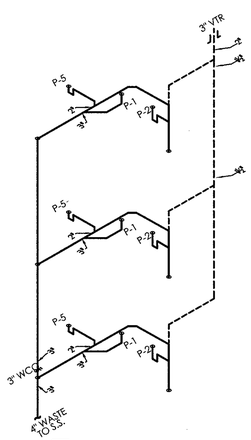
GH4

(28 DFUs, 4 WCs)



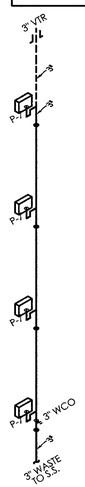
GB4

(24 DFUs, 4 WCs)



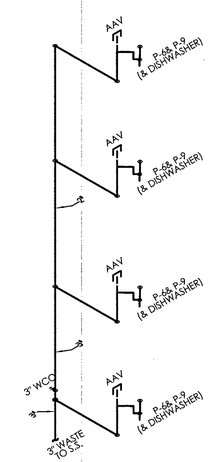
GB3

(18 DFUs, 3 WCs)



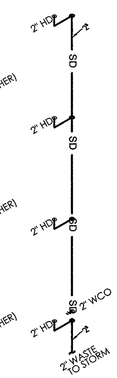
CA4

(8 DFUs, 0 WCs)



BB4

(8 DFUs, 0 WCs)



AA4

(0 DFUs, 0 WCs)

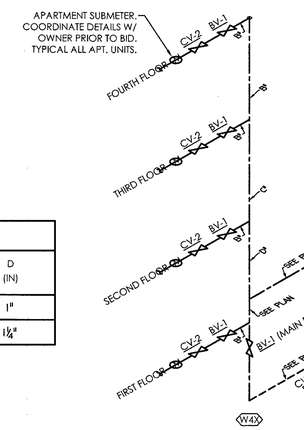
1 WATER/VENT RISERS - STACKS

NO SCALE

UNIT WATER LINE SIZES				
# BATHROOMS PER UNIT	A (IN)	B (IN)	C (IN)	D (IN)
1	1 1/4"	3/4"	1"	1"
2	1 1/2"	1"	1"	1 1/4"

NOTE: SEE UNIT PLANS FOR UNIT WATER LINE SIZING.

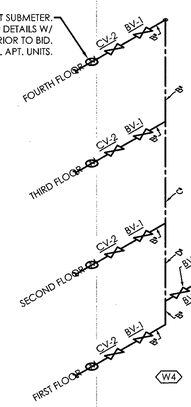
NOTE: CLEARLY LABEL ALL VALVES.



NOTE: MAIN RISER SHUTOFF TO BE LOCATED IN BOTTOM-MOST UNIT'S MECHANICAL CLOSET.

NOTE: SEE UNIT PLANS FOR UNIT WATER LINE SIZING.

NOTE: CLEARLY LABEL ALL VALVES.



NOTE: MAIN RISER SHUTOFF TO BE LOCATED IN BOTTOM-MOST UNIT'S MECHANICAL CLOSET.

2 WATER RISERS

NO SCALE

NOTE: P.C. TO PROVIDE A CLEANOUT AT THE BASE OF ALL WASTE STACKS.

NOTE: SEE UNIT PLANS FOR ADA FIXTURE DESIGNATIONS.

NOTE: P.C. TO COMBINE AREA VTRs INTO ONE VTR.

NOTE: RISER "CA" IS A WASTE STACK VENT AND SHALL BE INSTALLED PER 2018 FLPC SECTION 913.

REVISION
OCT 15 2019
RESUBMIT
#1

REVIEWED FOR PLUMBING CODE COMPLIANCE WITH THE FLORIDA BUILDING CODE
BY: DATE: 12/26/19
ALL PLUMBING INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES

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ZACK L. TOMLIN LICENSED No.79002 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/7/19

SURFSIDE CORNER

Zimmer Development Company

CAPE CORAL, FLORIDA

PERMIT SET

MAPLE ENGINEERING, PLLC
FL COA #: 3316
708 ST. MARYS ST. RALEIGH, NC 27605 L.I.C.#: P-0990
P:919-341-8247 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	DESCRIPTION
1	10/15/19	RESUBMIT

PROJECT NO: PLX-1906

DRAWN BY: JJL

CHECKED BY: ZLT

SHEET TITLE: PLUMBING RISERS

SHEET NUMBER: P4.01

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1. All drawings are to be coordinated with all site information by owner and contractor, and applicable codes.
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10/8/2019 6:42 PM
PLX-1906-P401.DWG

GENERAL HVAC NOTES

GENERAL REQUIREMENTS:

1. MECHANICAL CONTRACTOR IS TO FURNISH AND PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
2. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH FL MECHANICAL CODES AND ALL OTHER APPLICABLE CODES. MC IS TO COORDINATE W/ G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.
3. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS, CONTROLS, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
4. ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER. ALL COMPRESSORS ARE TO INCLUDE FIVE (5) YEAR WARRANTY. EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT.
5. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
6. DO NOT SCALE DRAWINGS FOR MEASUREMENT.
7. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DUCT DIMENSIONS.
8. INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT AND MANUFACTURER'S MODEL #. IF CONFLICT IS PRESENT BETWEEN DESCRIPTION AND MODEL #, EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENT. IN CASE OF CONFLICT BETWEEN THE PLANS AND NOTES/SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
9. BEFORE BID MC IS RESPONSIBLE FOR CLARIFYING W/ G.C. ANY CONFUSION IN REGARDS TO RESPONSIBILITY OF WORK TO BE PERFORMED OR MATERIALS TO BE PROVIDED. THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, AND HAS INCLUDED ON THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK.
10. AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED, THE MC SHALL PROVIDE SUBMITTALS OF MECHANICAL EQUIPMENT HE/SHE INTENDS TO PURCHASE FOR REVIEW AND COMMENT BY THE ENGINEER. ENGINEER IS TO APPROVE SUBMITTALS BEFORE EQUIPMENT IS ORDERED.
11. ALL QUESTIONS MUST BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT AND MUST BE ADDRESSED BY THE APPROPRIATE DESIGNER OF RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER.
12. UPON COMPLETION OF WORK M.C. IS TO PROVIDE OWNER W/ COMPLETE BOUND SET OF ALL EQUIPMENT OPERATION & MAINTENANCE MANUALS. PACKAGE IS ALSO TO INCLUDE AND WARRANTY & GUARANTEE INFORMATION.
13. M.C. IS TO PROVIDE TRAINING TO OWNER OR OWNER'S REPRESENTATIVE IN REGARDS TO OPERATION, FUNCTION, AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT, CONTROLS, ETC.
14. M.C. IS TO REVIEW COMPLETE DRAWING SET. M.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN AND WORK IMPLIED.

DIVISION OF WORK:

1. ALL ROOF WORK INCLUDING PENETRATIONS, OPENINGS, FLASHING, CURB INSTALLS, ETC ARE TO BE PERFORMED BY ROOFING CONTRACTOR. M.C. RESPONSIBLE FOR PROVIDING ANY ROOF CURBS, EQUIPMENT RAILS, VENTS, ETC AND COMMUNICATING ALL REQ'S WITH G.C. & ROOFING CONTRACTOR.
2. ALL LOW VOLTAGE WIRING RELATED TO MECHANICAL EQUIPMENT AND SYSTEMS IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR (ANY LOW VOLTAGE FIRE ALARM WIRING TO BE BY E.C.). ALL HIGH VOLTAGE CONNECTIONS TO MECHANICAL EQUIPMENT, TO BE PROVIDED AND INSTALLED BY E.C. (SEE EQUIPMENT SCHEDULE FOR DISCONNECT RESPONSIBILITY).
3. G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS DOORS (WALL, FLOOR, CEILING) RELATED TO MECHANICAL SYSTEM. M.C. RESPONSIBLE FOR COMMUNICATING TO G.C. SIZE AND LOCATION OF REQ'D ACCESS DOOR(S).
4. MECHANICAL CONTRACTOR IS TO EMPLOY THE SERVICES OF THE G.C. FOR CUTTING AND PATCHING OF WALLS, FLOORS & CEILINGS RELATED TO THE INSTALLATION OF MECHANICAL EQUIPMENT & SYSTEMS.
5. G.C. RESPONSIBLE FOR PAINTING OF ANY EXPOSED DUCT, PIPING, GRILLES, ETC. M.C. RESPONSIBLE FOR CLEANING AND PREPARING ITEMS FOR PAINT, COORDINATE W/ G.C.
6. G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS PLATFORMS, GUARD RAILS, LADDERS, CONCRETE PADS. M.C. TO COMMUNICATE REQ'S TO G.C.
7. G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY WALL LOUVERS BRICK VENTS OR SIMILAR. M.C. TO PROVIDE AND INSTALL ANY WALL CAPS.

COORDINATION:

1. THE MECHANICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICT AND ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE MECHANICAL WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF OPENINGS, ELECTRICAL CONNECTIONS, ETC).
2. MECHANICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR RELIEF HOODS, OUTSIDE AIR HOODS, LOUVERS, AND WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
3. M.C. TO COORDINATE LOCATION OF ALL ROOF PENETRATIONS W/ ROOFING CONTRACTOR. P.C. & M.C. TO COORDINATE TO ENSURE NO PLUMBING VENTS OR ANY OTHER SOURCES OF BUILDING EXHAUST ARE LOCATED WITHIN 10' OF ANY OUTSIDE AIR INTAKES.

MATERIALS:

1. ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED.
2. ALL MATERIALS INSTALLED IN RETURN PLENUM ARE TO BE PLENUM RATED.
3. PROVIDE HANGERS & SUPPORTS APPROVED FOR USE BY 2017 FL MECHANICAL CODE.
4. ALL MAIN DUCTWORK (SUPPLY, RETURN, EXHAUST, OUTSIDE AIR) SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS.
5. RUNOUTS FROM MAIN/BRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1.
   - 5.1. FLEXIBLE AIR DUCTS SHALL NOT BE LIMITED IN LENGTH.
   - 5.2. FLEXIBLE AIR CONNECTORS SHALL BE LIMITED TO 14' IN LENGTH. FLEXIBLE AIR CONNECTORS SHALL NOT PASS THROUGH ANY WALL, FLOOR OR CEILING.
6. ALL SUPPLY AND RETURN DUCTWORK AND PLENUMS SHALL BE INSULATED. INSULATION OF DUCTWORK IN UNCONDITIONED SPACE SHALL BE MINIMUM R-6 PER 2017 FLECC. INSULATION OF DUCTWORK OUTSIDE BUILDING THERMAL ENVELOPE (I.E. ROOF, ATTIC, CRAWLSPACE) SPACE SHALL BE MINIMUM R-8 PER FLECC.
7. CONCEALED SHEET METAL SUPPLY & RETURN DUCT MAY BE EXTERNALLY INSULATED WITH MINERAL FIBER BOARD OR BLANKET OR MAY BE INTERNALLY INSULATED WITH ACOUSTICAL DUCT LINER.
8. OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1" FIBERGLASS DUCT WRAP WITH VAPOR BARRIER.
9. ALL MAIN DUCTWORK (INCLUDING EXHAUST) TO BE SEALED ACCORDING TO FLECC AND AT A MINIMUM INCLUDE SEALING OF ALL DUCT SEAMS W/ NON-HARDENING MASTIC. SEALING BY TAPE ALONE NOT ALLOWED.
10. DUCTWORK ELBOWS SHALL BE FULL RADIUS OR MITERED WITH TURNING VANES.
11. CONDENSATE DRAIN PIPING AND FITTINGS NOT IN A RETURN PLENUM SHALL BE SCHEDULE 40 PVC. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED (2" MINIMUM). TRAPS ON INTERIOR OF BUILDINGS TO BE INSULATED. PIPING IN RETURN PLENUM TO BE COPPER OR PLENUM RATED CPVC.
12. ALL DAMPERS TO INCLUDE SET SCREW OR SIMILAR FEATURE FOR LOCKING IN POSITION.
13. ALL REFRIGERANT LINE MATERIAL AS PER MFG'S REQUIREMENTS. SIZE PER MFG INSTRUCTIONS. SUCTION LINE INSULATION TO BE MINIMUM 1-1/2" THICK W/ THERMAL CONDUCTIVITY (K) LESS THAN OR EQUAL TO 0.27 PER FLECC COMMERCIAL PROVISIONS. SUCTION LINE INSULATION TO BE HAVE MINIMUM R-VALUE OF 3.0 W/ NO LIMITATION ON THICKNESS OR CONDUCTIVITY PER FLECC RESIDENTIAL PROVISIONS. INSULATION SHALL HAVE TAPED OR SEALED SEAMS.
14. ALL FIRE, SMOKE AND RADIATION DAMPERS TO BE U.L. LISTED AND APPROVED FOR CORRECT PRESSURE CLASS, APPLICATION (STATIC, DYNAMIC), ORIENTATION (HORIZONTAL/VERTICAL), AND INSTALLATION (WALL, FLOOR CEILING U.L. ASSEMBLY). TO INCLUDE 165° FUSIBLE LINK UNLESS OTHERWISE NOTED.
15. ALL FIRE SEALANTS TO BE U.L. LISTED AND APPROVED FOR USE W/ APPROPRIATE U.L. PENETRATION DETAIL.
16. ALL PROGRAMMABLE THERMOSTATS TO INCLUDE BATTERY BACK-UP AND HAVE CAPABILITY TO SETBACK TO 55°F (HEATING) & 85°F (COOLING). AUTO-CHANGEOVER THERMOSTATS TO HAVE A MIN. 5°F DEADBAND.
17. WITH THE EXCEPTION OF THE DRYER FLEX CONNECTION ALL DRYER EXHAUST DUCT SHALL BE 4Ø RIGID SHEET METAL, 26 GAUGE OR THICKER. JOIN DUCTS WITH HIGH TEMP & WATER RESISTANCE UL-181 APPROVED FOIL TAPE OR BLIND POP-RIVETS.

EXECUTION:

1. M.C. TO FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING MECHANICAL EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE MAINTAINED. IF CONFLICT EXISTS BETWEEN THESE PLANS AND MFG INSTRUCTIONS CONTACT ENGINEER.
2. ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTER-FLASHED IN A WATERPROOF MANNER.
3. SEAL ALL PENETRATIONS OF RATED WALLS, CEILING, FLOORS IN ACCORDANCE W/ APPROPRIATE U.L. PENETRATION DETAIL.
4. INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR.
5. ALL REFRIGERANT PIPING SHALL BE INSTALLED PER MFG'S INSTRUCTIONS IN REGARDS TO SUPPORTS, BENDS, FITTINGS, OIL TRAPS, ETC. NAIL (SHIELDING) PLATES ARE TO BE PROVIDED AT ANY POINT REFRIGERANT PIPING PASSES THROUGH WALL, FLOOR OR ATTIC/ROOF FRAMING.
6. PENETRATIONS OF NON-RATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
7. ANY NOTCHING, DRILLING, BORING OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD AND NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE.
8. SUPPORT ALL DUCTWORK AND PIPING IN ACCORDANCE W/ 2017 FL MECHANICAL CODE. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK.
9. PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS AND CEILINGS SHALL BE SEALED IN AN AIR TIGHT MANNER AND IN ACCORDANCE W/ 2017 FLECC. ALL PENETRATIONS OF WALLS, FLOORS & CEILINGS IN RETURN OR EXHAUST PLENUMS SHALL BE SEALED IN AN AIR TIGHT MANNER.
10. DUCT ACCESS DOORS TO BE PROVIDED AT ALL FIRE, RADIATION & SMOKE DAMPERS, SMOKE DETECTORS, CLEANOUTS AND ANY OTHER CODE REQUIRED LOCATIONS.
11. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL MECHANICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). UPON COMPLETION OF WORK THE MECHANICAL CONTRACTOR SHALL CLEAN, WASH, ETC ALL ITEMS AND EQUIPMENT WITHIN HIS SCOPE OF WORK AND LEAVE ALL ITEMS BRIGHT AND CLEAN.
12. M.C. IS TO ENSURE THAT THEIR INSTALLATION OF NEW CONDUITS, PIPES, DUCTWORK, AND SIMILAR DOES NOT BLOCK ACCESS TO NEW OR EXISTING AREA EQUIPMENT AND THAT THE FORE MENTIONED DOES NOT INTERFERE WITH THE REQUIRED SERVICE CLEARANCE OF NEW OR EXISTING EQUIPMENT. COORDINATE WITH OTHER TRADE CONTRACTORS AND CONTACT ENGINEER IF UNCERTAINTY EXISTS REGARDING EQUIPMENT SERVICE CLEARANCE REQUIREMENTS.
13. MALE END OF ALL OVERLAPPING DRYER DUCT JOINTS ARE TO BE DIRECTED AWAY FROM DRYER. HORIZONTAL DUCT SECTIONS ARE TO HAVE THE LONGITUDINAL (LONG WAYS) SEAM FACING UP. IF POP-RIVETS ARE USED DUCT JOINTS ARE TO BE SEALED WITH NON-HARDENING MASTIC OR SIMILAR.
14. ALL EXTERIOR EQUIPMENT, DEVICES AND MATERIALS SHALL BE INSTALLED, BRACED TO WITHSTAND A 160 MPH WIND.

NOTE:
REMOVED UNIT HEATER FROM PROJECT.
(revision 1)

FAN SCHEDULE

UNIT NO.	SERVICE	AREA SERVED	CFM	S.P.	RPM	TYPE & ARRANGEMENT	MIN. MOTOR HP & VOLTAGE	MANUFACTURER & MODEL NO.	DRIVE	CONTROL SCHEME	NOTES
EF-1	EXHAUST	UNITS	110	0.35"	MFG	CEILING, CENTRIFUGAL	14.2 WATTS 120V/1Ø	BROAN XB110	DIRECT	A	1,2,3,4,6
EF-2	EXHAUST	MEN'S 112	150	0.30"	MFG	CEILING, CENTRIFUGAL	113 WATTS 120V/1Ø	GREENHECK SPA-190	DIRECT	D	1,2,3,4
EF-3	EXHAUST	WOMEN'S 113	150	0.30"	MFG	CEILING, CENTRIFUGAL	113 WATTS 120V/1Ø	GREENHECK SPA-190	DIRECT	D	1,2,3,4
EF-4	EXHAUST	PH WOMEN	225	0.35"	MFG	CEILING, CENTRIFUGAL	81 WATTS 120V/1Ø	GREENHECK SPA-290	DIRECT	D	1,2,3,4
EF-5	EXHAUST	PH MEN	225	0.35"	MFG	CEILING, CENTRIFUGAL	81 WATTS 120V/1Ø	GREENHECK SPA-290	DIRECT	D	1,2,3,4
EF-6	EXHAUST	POOL EQUIP.	225	0.35"	MFG	CEILING, CENTRIFUGAL	81 WATTS 120V/1Ø	GREENHECK SPA-290	DIRECT	E	1,3,4,6,7,8
~~EF-7~~	~~EXHAUST~~	~~CHEM. STORAGE~~	~~75~~	~~0.35"~~	~~MFG~~	~~CEILING, CENTRIFUGAL~~	~~49 WATTS 120V/1Ø~~	~~GREENHECK SPA-110~~	~~DIRECT~~	~~E~~	~~1,3,4,6,7,8~~
EF-8	EXHAUST	UNITS	110	0.35"	MFG	CEILING, CENTRIFUGAL	14.2 WATTS 120V/1Ø	BROAN XB110	DIRECT	B	1,2,3,4,5,6
EF-9	EXHAUST	UNITS	110	0.35"	MFG	CEILING, CENTRIFUGAL	14.2 WATTS 120V/1Ø	BROAN XB110	DIRECT	C	1,2,3,4,5,6

(revision 2)

NOTES:

1. SCREEN
2. BACKDRAFT DAMPER
3. COLOR BY ARCHITECT
4. INTEGRAL DISCONNECT SWITCH
5. EXHAUST FAN TO BE CONTROLLED W/ AIRCYCLER SE1 (OR EQUAL) TIMER SWITCH. SWITCH TO BE PROVIDED BY M.C. AND INSTALLED BY E.C.. SEE CONTROL OPTIONS FOR TIMER AND DELAY SETTINGS.
6. W/ RADIATION DAMPER
7. CORROSION RESISTANT
8. EXHAUST LOCATION CANNOT BE ON POOLSIDE OF ROOF

CONTROL OPTIONS:

A. CONTROL W/ SWITCH
B. CONTROL W/ TIMER SWITCH (VENTILATION: 19 MINUTES/HR, DELAY 10 MINUTES. 35 AVG CFM/HR)
C. CONTROL W/ TIMER SWITCH (VENTILATION: 28 MINUTES/HR, DELAY 10 MINUTES. 51 AVG CFM/HR)
D. CONTROL W/ ROOM LIGHTS
E. CONTINUOUS OPERATION

DIFFUSER SCHEDULE

SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER & MODEL NO.	NOTES
A	AS NOTED	N/A	AS NOTED	SURFACE	2-WAY	YES	STEEL	SUPPLY	NOTE 2	HART & COOLEY 682	1,2,3
B	N/A	N/A	AS NOTED	SURFACE	LOUVERED	NO	STEEL	TRANSFER	NOTE 2	HART & COOLEY 672	1,2
C	AS NOTED	N/A	AS NOTED	SURFACE	DBL. DEFL.	YES	STEEL	SUPPLY	NOTE 2	TITUS 300RS	1,2,3
D	AS NOTED	N/A	AS NOTED	SURFACE	LOUVERED	NO	STEEL	RETURN	NOTE 2	TITUS 350RL	1,2,3

NOTES:

GENERAL - MC RESPONSIBLE FOR VERIFYING QTY, COLOR & FRAME TYPE OF DIFFUSERS/GRILLES BEFORE ORDERING. PROVIDE SQR TO RND TRANSTIONS & PLENUMS AS NECESSARY.

1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:
   DIFFUSER OR NECK SIZE. → 8x4 0°
   AIR QUANTITY → 75
   VERTICAL BLADE SPREAD (WHERE APPLICABLE)
   DIFFUSER TYPE AS NOTED ABOVE (A)
2. FINISH TO MATCH / BE ABLE MATCH CEILING OR WALL OR DOOR.
3. FACTORY INSULATION BACKING ON GRILLES EXPOSED TO NON-CONDITIONED AREAS. ALTERNATELY, FIELD SUPPLY AND INSTALL.

REVIEWED FOR MECHANICAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
BY [signature] DATE 12/26/19
ALL MECHANICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
18x14	RECTANGULAR DUCT
6Ø	ROUND METAL DUCT
6Ø	ROUND METAL DUCT
6Ø	FLEX/RIGID ROUND DUCT
	ELBOW WITH TURNING VANES
	VOLUME DAMPER
	SUPPLY TAP WITH VOLUME DAMPER
	SUPPLY TAP
	SUPPLY DIFFUSER/GRILLE OR RISER
	RETURN REGISTER/GRILLE OR RISER
	SIDEWALL DIFFUSER/GRILLE
	CEILING EXHAUST FAN
T	T-STAT
SD	DUCT SMOKE DETECTOR
AV	AUDIO/VISUAL ALARM (W/ REMOTE TEST KEY SWITCH)
	1" DOOR UNDER CUT
	LOUVERED DOOR (SEE ARCHITECTURAL DRAWINGS)
RD	U.L. CEILING RADIATION DAMPER
	ATTIC ACCESS

ENERGY REQUIREMENTS:

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE

PRESCRIPTIVE [X] ENERGY COST BUDGET [ ]

THERMAL ZONE 2A

	BLDG 1	CLUB HOUSE	POOL HOUSE
EXTERIOR DESIGN CONDITIONS			
WINTER DRY BULB	34	34	34
SUMMER DRY BULB	94	94	94
INTERIOR DESIGN CONDITIONS			
WINTER DRY BULB	70	70	70
SUMMER DRY BULB	76	76	76
RELATIVE HUMIDITY	50%	50%	50%
BUILDING HEATING LOAD (MBH)	621.8	60.2	30.3
BUILDING COOLING LOAD (MBH)	1290.2	137.6	44.2

MECHANICAL SPACING CONDITIONING SYSTEM
- UNITARY
  - DESCRIPTION OF UNIT — SEE SCHEDULES
  - HEATING EFFICIENCY — SEE SCHEDULES
  - COOLING EFFICIENCY — SEE SCHEDULES
  - HEAT OUTPUT OF UNIT — SEE SCHEDULES
  - COOLING OUTPUT OF UNIT — SEE SCHEDULES
- BOILER
  - TOTAL BOILER OUTPUT — NA
- CHILLER
  - TOTAL CHILLER OUTPUT — NA

LIST EQUIPMENT EFFICIENCIES — SEE SCHEDULES

DESIGNER'S STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE F.L.S. ENERGY CODE.

SIGNED: [signature]
NAME: ZACK L. TOMLIN, PE
TITLE: MECHANICAL ENGINEER

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2
DEC 05 2019
RESUBMIT

ZACK L. TOMLIN LICENSE No.79002 STATE OF FLORIDA PROFESSIONAL ENGINEER
11/25/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

MAPLE ENGINEERING, PLLC
FL COA #: 3316
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P:919-341-4247 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses
2	11.22.19		Cycle 2 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: RMH
CHECKED BY: ZLT
SHEET TITLE: MECHANICAL SCHEDULES & NOTES
SHEET NUMBER: M0.01

11/22/2019 11:22 AM
PLX-1906-M001.DWG

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Ventilation Calculations

Calc's Based on the 2017 FLMC Chapter 4

AH/RTU: **AH-5** Spaces: **Fitness/Yoga**

Occupancy	Area (sqft)	Occ. Density (ppl/1000 sqft)	# People	CFM/Sqft	CFM/Person	Area CFM	People CFM	Total Gross CFM	Vent. Eff*	Req'd CFM
CH Fitness Center 119	873	10	8.73	0.06	20	52	175	227	1.0	227
CH Yoga 120	177	40	7.08	0.06	20	11	142	152	1.0	152
									Total Req'd CFM	379
									Supplied CFM	380

*Ceiling or Floor Supply Cool Air (Space will be unoccupied or only partially occupied when in heating) (2017 FLMC 403.3.1.1.2)

AH/RTU: **AH-6** Spaces: **Club Room**

Occupancy	Area (sqft)	Occ. Density (ppl/1000 sqft)	# People	CFM/Sqft	CFM/Person	Area CFM	People CFM	Total Gross CFM	Vent. Eff*	Req'd CFM
CH Clubroom 116	1268	30	38.04	0.06	7.5	76	285	361	1.0	361
									Total Req'd CFM	361
									Supplied CFM	365

*Ceiling or Floor Supply Cool Air (Space will be unoccupied or only partially occupied when in heating) (2017 FLMC 403.3.1.1.2)

AH/RTU: **AH-7** Spaces: **Telework/Conference**

Occupancy	Area (sqft)	Occ. Density (ppl/1000 sqft)	# People	CFM/Sqft	CFM/Person	Area CFM	People CFM	Total Gross CFM	Vent. Eff*	Req'd CFM
CH Telework 114	251	5	1.255	0.06	5	15	6	21	1.0	21
CH Conference Room 107	88	50	4.4	0.06	5	5	22	27	1.0	27
CH Mail 108	168	0	0	0.12	0	20	0	20	1.0	20
Corridor	50	0	0	0.06	0	3	0	3	1.0	3
									Total Req'd CFM	72
									Supplied CFM	75

*Ceiling or Floor Supply Cool Air (Space will be unoccupied or only partially occupied when in heating) (2017 FLMC 403.3.1.1.2)

AH/RTU: **AH-8** Spaces: **Reception/Office**

Occupancy	Area (sqft)	Occ. Density (ppl/1000 sqft)	# People	CFM/Sqft	CFM/Person	Area CFM	People CFM	Total Gross CFM	Vent. Eff*	Req'd CFM
CH Lobby 101	72	10	1	0.06	5	4	5	9	1.0	9
CH Reception/Leasing 102	427	30	12.81	0.06	5	26	64	90	1.0	90
CH Office 1 103	73	5	1	0.06	5	4	5	9	1.0	9
CH Office 2 104	26	5	1	0.06	5	2	5	7	1.0	7
CH Workroom 105	118	5	1	0.06	5	7	5	12	1.0	12
									Total Req'd CFM	127
									Supplied CFM	130

*Ceiling or Floor Supply Cool Air (Space will be unoccupied or only partially occupied when in heating) (2017 FLMC 403.3.1.1.2)

AH/RTU: **AH-9** Spaces: **Billiards**

Occupancy	Area (sqft)	Occ. Density (ppl/1000 sqft)	# People	CFM/Sqft	CFM/Person	Area CFM	People CFM	Total Gross CFM	Vent. Eff*	Req'd CFM
CH Billiards 116	343	20	6.86	0.18	7.5	62	51	113	1.0	113
									Total Req'd CFM	113
									Supplied CFM	115

*Ceiling or Floor Supply Cool Air (Space will be unoccupied or only partially occupied when in heating) (2017 FLMC 403.3.1.1.2)

GRAVITY VENTILATOR SCHEDULE

UNIT DESIG.	LOCATION	SERVICE	INLET DIA.(")	FREE AREA(SQFT)	MANUFACTURER & MODEL #	NOTES
GV-1	CH MEN'S ROOF	INTAKE	12	0.82	GREENHECK GRSI-12	1,2
GV-2	CH MAIL ROOF	INTAKE	12	0.82	GREENHECK GRSI-12	1,2

NOTES:

1. FURNISH W/ MFG INSULATED SLOPED ROOF CURB.
2. W/ SCREEN.

SPLIT SYSTEM AC UNIT SCHEDULE

AIR HANDLING UNIT DATA															CONDENSING UNIT								
			FAN DATA				COOLING		HEAT	AUX.	ELECTRICAL DATA			GENERAL DATA				ELECTRICAL DATA			
UNIT TAG	AREA SERVED	MANUF. MODEL	FAN CFM	ESP (" OF WG)	MOTOR (HP)	OA (CFM)	TOTAL (MBH)	SENS. (MBH)	TOTAL (MBH)	HEAT (KW@208)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	UNIT TAG	MANUF. MODEL	TONNAGE	EFF. (SEER)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	NOTES
AH-1	APT UNITS	GOODMAN AWUT31	600	0.50	1/2	NOTE 12	17.2	13.6	17.2	3.60	208V/1Ø	26.8	30	HP-1	GOODMAN GSZ14018	1.5	14.0	208V/1Ø	12.2	20	1,2,3,4,8,9,10,11,12,13,14,15
AH-2	APT UNITS	GOODMAN AWUT31	600	0.50	1/2	NOTE 12	17.2	13.6	17.2	3.60	208V/1Ø	26.8	30	HP-2	GOODMAN GSZ14018	1.5	14.0	208V/1Ø	12.2	20	1,2,3,4,8,9,10,11,12,13,15
AH-3	APT UNITS	GOODMAN AWUT31	800	0.50	1/2	NOTE 12	22.8	18.2	23.2	6.00	208V/1Ø	38.1	40	HP-3	GOODMAN GSZ14024	2.0	14.0	208V/1Ø	14.6	25	1,2,3,4,8,9,10,11,12,13,14,15
AH-5	FITNESS	TRANE GAM5B0C60	2000	0.60	1.0	380	60.0	48.0	60.0	10.80	208V/3Ø	46.0	50	HP-5	TRANE 4TWA4060	5.0	14.0	208V/3Ø	21.0	35	1,2,3,5,6,9,10,11,13,15
AH-6	CLUB RM	TRANE GAM5B0C60	2000	0.50	1.0	365	60.0	48.0	60.0	10.80	208V/3Ø	46.0	50	HP-6	TRANE 4TWA4060	5.0	14.0	208V/3Ø	21.0	35	1,2,3,5,6,9,10,11,13,15
AH-7	MAIL/WORK	TRANE GAM5B0B30	1000	0.55	1/3	75	30.0	24.0	30.0	7.20	208V/3Ø	28.0	30	HP-7	TRANE 4TWA4030	2.5	14.0	208V/1Ø	17.0	25	1,2,3,5,6,9,10,11,13,15
AH-8	OFFICES	TRANE GAM5B0B36	1200	0.50	1/2	130	36.0	28.8	36.0	7.20	208V/3Ø	30.0	30	HP-8	TRANE 4TWA4036	3.0	14.0	208V/3Ø	13.0	20	1,2,3,5,6,9,10,11,13,15
AH-9	BILLIARDS	TRANE GAM5B0A24	800	0.45	1/3	115	24.0	19.2	24.0	5.76	208V/1Ø	38.0	40	HP-9	TRANE 4TWR4024	2.0	14.0	208V/1Ø	14.0	25	1,2,3,5,6,9,10,11,13,15

NOTES:

1. COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH AHRI STANDARD 210/240 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND AIR QUANTITY LISTED BY MFG. UNITS ABOVE 5 TONS ARE RATED IN ACCORDANCE WITH AHRI STANDARD 340/360.
2. REFRIG. PIPING TO BE SIZED PER TOTAL INSTALL. EQUIV. LENGTH. LONG-LINE APP.TO BE PROVIDED WHENEVER MFG. RECOMM. LENGTHS ARE EXCEEDED, INCL. LIQ. LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAX T.E.L. IS PER MFG.
3. PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR AIR HANDLING UNIT.
4. PROVIDE 2 SETS OF NEW FILTERS FOR EACH UNIT. PROVIDE ONE AT INSTALLATION AND AT TURNOVER TO OWNER.
5. PROVIDE 3 SETS OF NEW FILTERS FOR EACH UNIT. PROVIDE ONE AT INSTALLATION, ONE PRIOR TO AIR BALANCE AND ONE AT TURNOVER TO OWNER.
6. PROVIDE HONEYWELL TH8321 SERIES 7 DAY PROGRAMMABLE THERMOSTAT W/ MANUAL OVERRIDE.
7. NOT USED.
8. PROVIDE MFG'S 7 DAY PROGRAMMABLE THERMOSTAT.
9. OUTDOOR UNITS SHALL HAVE A MINIMUM 14.0 SEER RATING.
10. PROVIDE BI-FLOW TXV FOR HEAT PUMP OPERATION.
11. OUTDOOR THERMOSTAT TO LOCK-OUT ELECTRIC HEAT WHEN TEMPERATURE IS 40°F OR HIGHER. PROVIDE UNIT WITH EMERGENCY HEAT OVERRIDE OPTION.
12. OUTSIDE AIR CFM'S AS INDICATED ON PLAN SPECIFIC VENTILATION CALCULATIONS. OUTSIDE AIR PROVIDED BY UNIT EXHAUST FANS.
13. CYCLE PROTECTOR AND TIME DELAY RELAY (IF AVAILABLE).
14. PROVIDE MFG'S WALL PANEL.
15. PROVIDE HEAT PUMP W/ OPTIONAL "SEA COAST" CORROSION RESISTANCE KIT.

MINI-SPLIT HEAT PUMP/AC SCHEDULE

AIR HANDLING UNIT DATA													HEAT PUMP/CONDENSING UNIT							
			FAN DATA				COOLING		HEAT	ELECTRICAL DATA			GENERAL DATA				ELECTRICAL DATA			
UNIT TAG	AREA SERVED	MANUF. MODEL	FAN CFM	ESP (" OF WG)	MOTOR (WATTS)	OA (CFM)	TOTAL (MBH)	SENS. (MBH)	TOTAL (MBH)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	UNIT TAG	MANUF. MODEL	TONNAGE	EFF. (SEER)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	NOTES
AH-10	ELEV. EQUIP.	MITSUBISHI PKA-A24KA4	775	N/A	56	N/A	24.0	18.5	26.0	208/1Ø	1.0	NOTE 2	HP-10	MITSUBISHI PUZ-A24N	2.0	17.0	208V/1Ø	18.0	30.0	1,2,3,4,5,6,7
AH-11A	TELECOM	HAIER AW09TE	300	N/A	30	N/A	9.0	7.92	10.0	120V/1Ø	1.0	NOTE 2	HP-11A	HAIER 1U09TE	0.75	16.0	120V/1Ø	18.0	20.0	1,2,3,4,5,6,7
AH-11B	TELECOM	HAIER AW09TE	300	N/A	30	N/A	9.0	7.92	10.0	120V/1Ø	1.0	NOTE 2	HP-11B	HAIER 1U09TE	0.75	16.0	120V/1Ø	18.0	20.0	1,2,3,4,5,6,7
AH-11C	TELECOM	HAIER AW09TE	300	N/A	30	N/A	9.0	7.92	10.0	120V/1Ø	1.0	NOTE 2	HP-11C	HAIER 1U09TE	0.75	16.0	120V/1Ø	18.0	20.0	1,2,3,4,5,6,7
AH-11D	TELECOM	HAIER AW09TE	300	N/A	30	N/A	9.0	7.92	10.0	120V/1Ø	1.0	NOTE 2	HP-11D	HAIER 1U09TE	0.75	16.0	120V/1Ø	18.0	20.0	1,2,3,4,5,6,7
AH-12A	MENS	MITSUBISHI MSZ-GL18NA	417	N/A	30	N/A	14.0	11.2	14.0	208V/1Ø	1.0	NOTE 2	HP-12	MITSUBISHI MXZ-4C36	3.0	19.2	208V/1Ø	22.1	25	1,2,3,4,5,6,8
AH-12B	WOMENS	MITSUBISHI MSZ-GL18NA	417	N/A	30	N/A	14.0	11.2	14.0	208V/1Ø	1.0	NOTE 2								
AH-13	CLUBHOUSE ELEC. CLOSET	MITSUBISHI PKA-A24KA4	775	N/A	56	N/A	24.0	18.5	26.0	208/1Ø	1.0	NOTE 2	HP-13	MITSUBISHI PUZ-A24N	2.0	17.0	208V/1Ø	18.0	30.0	1,2,3,4,5,6

NOTES:

1. COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH AHRI STANDARD 210/240 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND AIR QUANTITY LISTED BY MFG. UNITS ABOVE 5 TONS ARE RATED IN ACCORDANCE WITH AHRI STANDARD 340/360.
2. INDOOR UNIT POWERED VIA WIRING FROM OUTDOOR UNIT. SEE MFG'S INSTRUCTIONS.
3. REFRIG. PIPING TO BE SIZED PER TOTAL INSTALL. EQUIV. LENGTH. LONG-LINE APP.TO BE PROVIDED WHENEVER MFG. RECOMM. LENGTHS ARE EXCEEDED, INCL. LIQ. LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAX T.E.L. IS PER MFG.
4. PROVIDE 2 SETS OF NEW FILTERS FOR EACH UNIT. PROVIDE ONE AT INSTALLATION AND AT TURNOVER TO OWNER.
5. PROVIDE W/ MFG'S WIRELESS REMOTE CONTROLLER KIT.
6. OUTDOOR UNITS SHALL HAVE A MINIMUM 14.0 SEER RATING.
7. CONDENSATE TO BE ROUTED TO AREA HUB DRAIN. SEE SHEET M1.10.
8. (1) EXTERIOR MULTI-ZONE HEAT PUMP TO BE TIED TO MULTIPLE INDOOR AIR HANDLERS. PROVIDE W/ ALL REQUIRED ACCESSORIES FOR MULTI-ZONE INSTALLATION. EACH AIR HANDLER TO HAVE INDIVIDUAL TEMPERATURE CONTROL.

REVISION
OCT 15 2019
RESUBMIT #1

MECHANICAL ... 12/26/19

ZACK L. TOMLIN LICENSE No.79002 STATE OF FLORIDA PROFESSIONAL ENGINEER 10/9/19

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: RMH
CHECKED BY: ZLT
SHEET TITLE: MECHANICAL SCHEDULE & NOTES
SHEET NUMBER: M0.02

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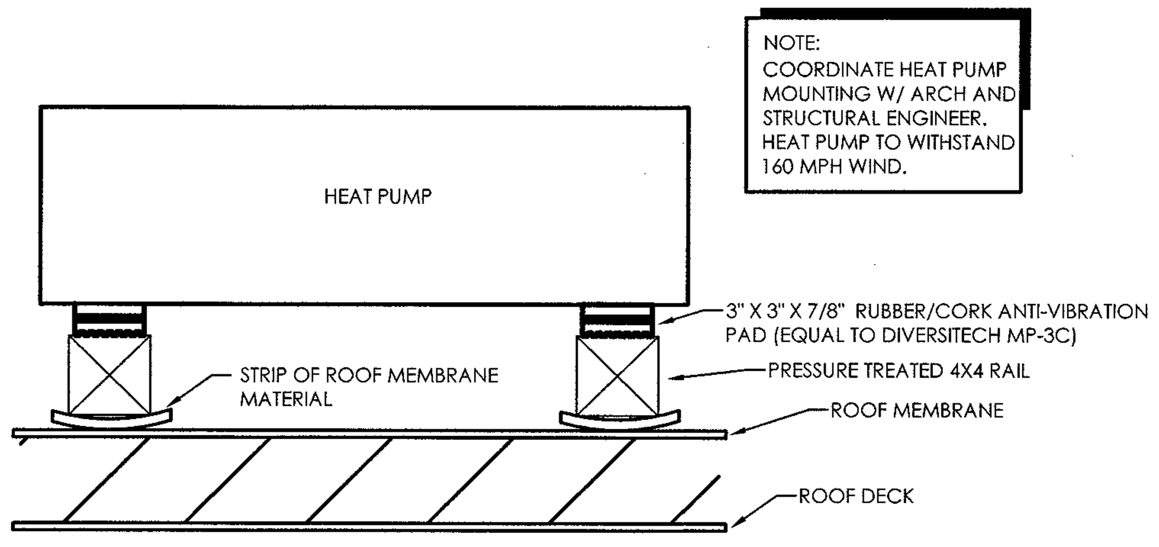
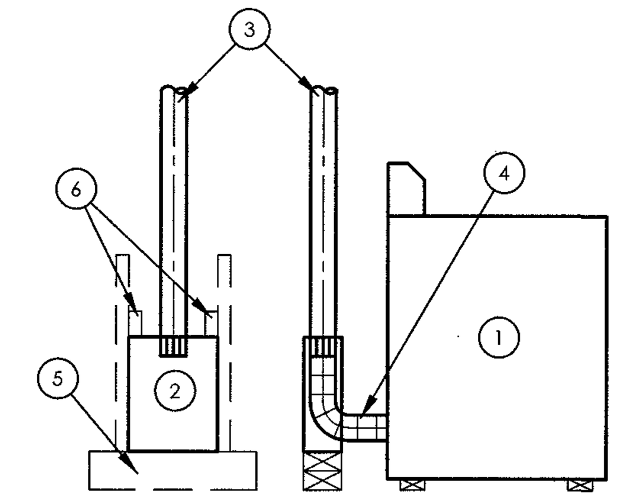


NOTES:

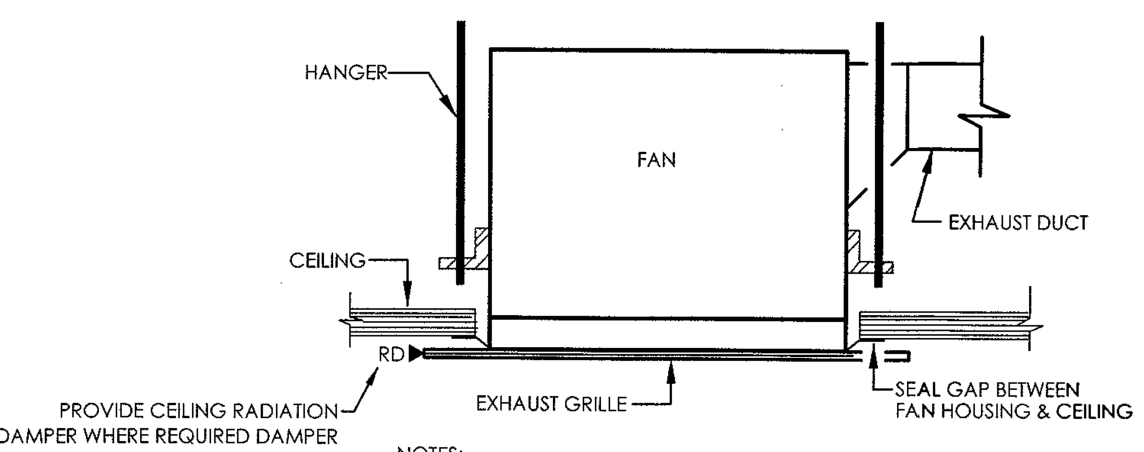
1. ANTI-VIBRATION PAD TO BE INSTALLED AT ALL (4) CORNERS OF UNIT.

(10) ROOF HEAT PUMP DETAIL
NO SCALE



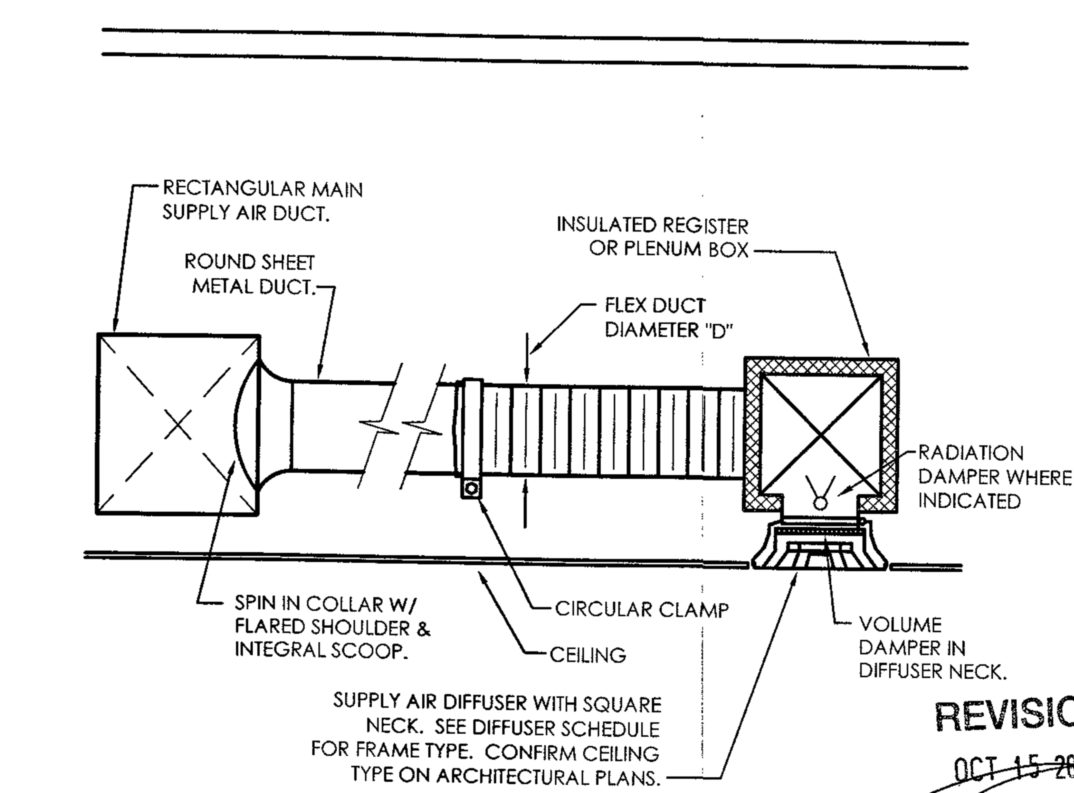
1. RESIDENTIAL DRYER
2. RECESSED METAL BOX (18"x14"x5-1/2")
3. 4" DRYER VENT
4. DRYER FLEX HOSE
5. ONE 2x6 BLOCK ON BOTTOM PLATE
6. 2x4 BLOCKING

(9) RECESSED METAL BOX FOR DRYER EXHAUST
NO SCALE



NOTES:
1. IF FAN IS EQUIPPED W/ INTERNAL BDD ENSURE BDD IS NOT TAPED SHUT.
2. ENSURE NO PORTION OF TAPE, SEALING, ETC EXTENDS PAST EDGE OF EXHAUST GRILLE.
3. INSTALLATION IN HARD-CEILING SIMILAR. FAN TO BE FASTENED TO RAFTER/JOIST. SEE MFG INSTRUCTIONS.

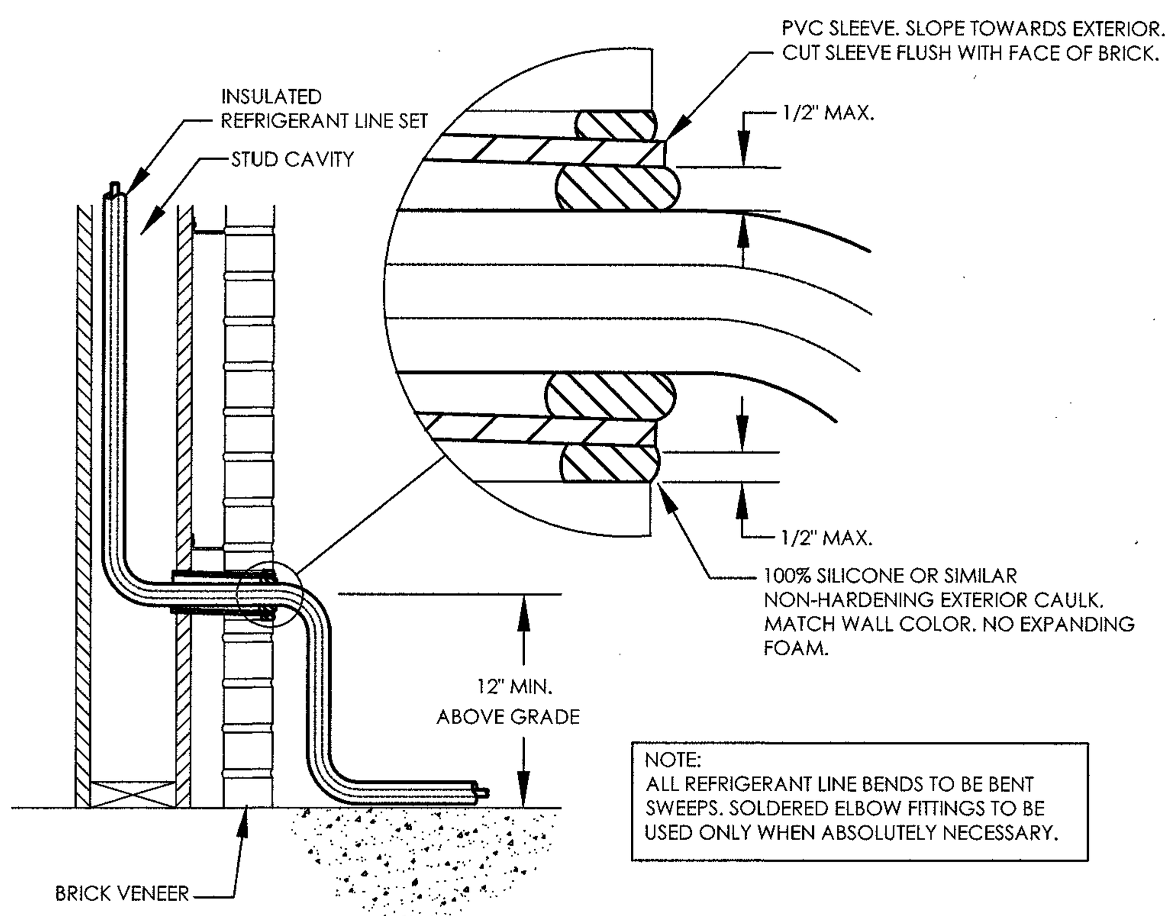
(8) EXHAUST FAN (CEILING) DETAIL
NO SCALE



NOTE:
1. SEE HVAC GENERAL NOTES FOR DUCT INSULATION REQUIREMENTS.

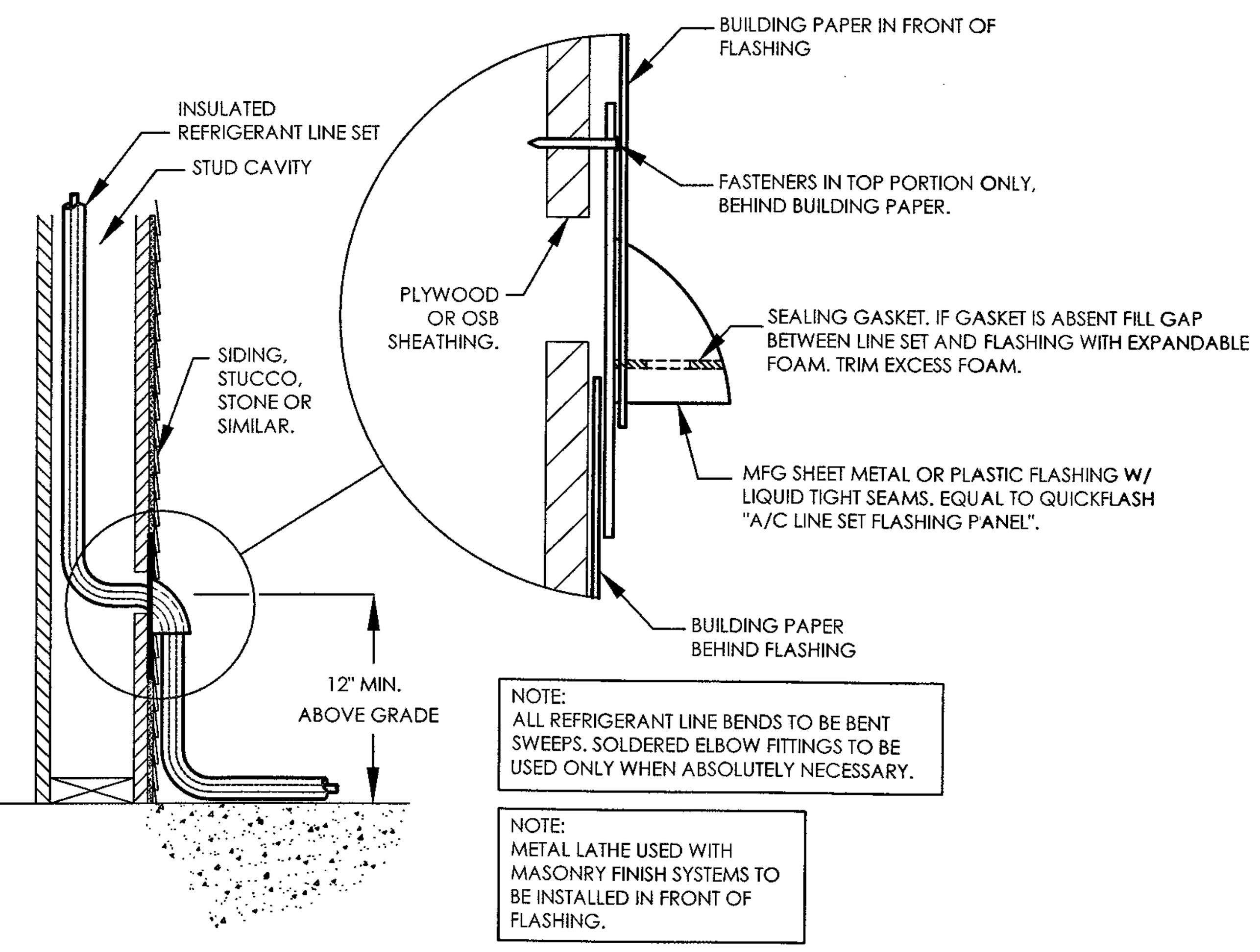
REVISION
OCT 15 2019
RESUBMIT

(7) SUPPLY AIR DIFFUSER DETAIL (APARTMENT UNITS)
NO SCALE



NOTE:
ALL REFRIGERANT LINE BENDS TO BE BENT SWEEPS. SOLDERED ELBOW FITTINGS TO BE USED ONLY WHEN ABSOLUTELY NECESSARY.

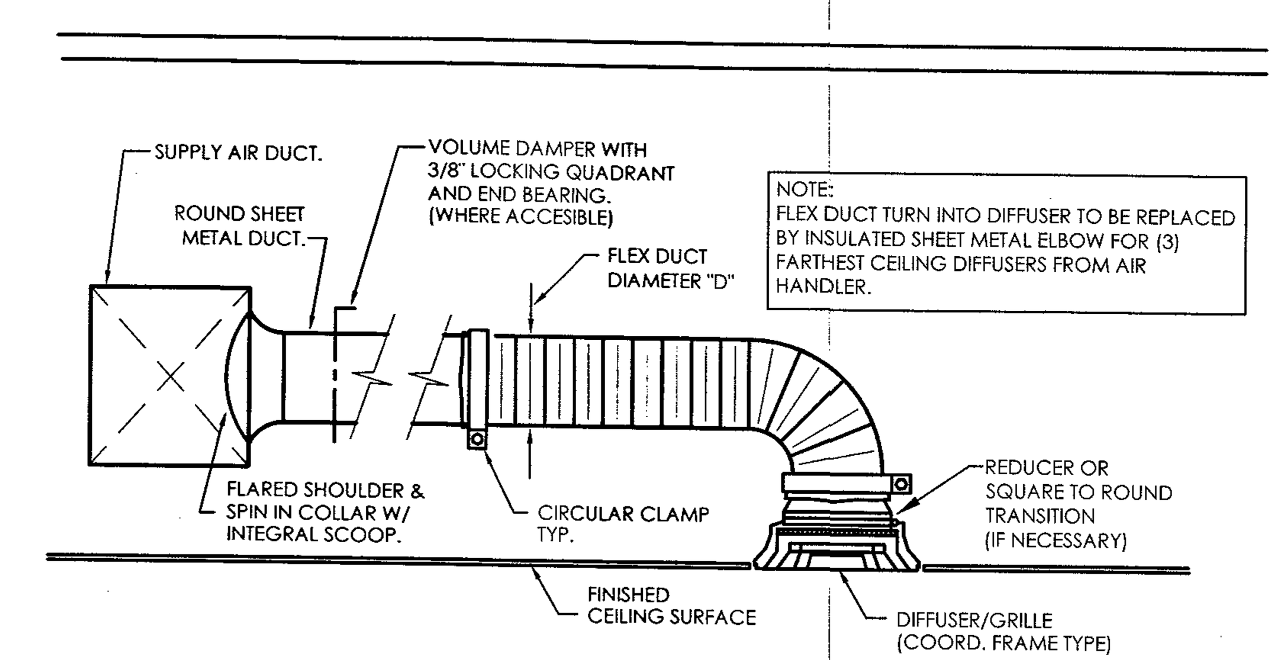
(6) HVAC LINE SET PENETRATION DETAIL (MASONRY)
NO SCALE



NOTE:
ALL REFRIGERANT LINE BENDS TO BE BENT SWEEPS. SOLDERED ELBOW FITTINGS TO BE USED ONLY WHEN ABSOLUTELY NECESSARY.

NOTE:
METAL LATHE USED WITH MASONRY FINISH SYSTEMS TO BE INSTALLED IN FRONT OF FLASHING.

(5) HVAC LINE SET PENETRATION DETAIL (NON-MASONRY)
NO SCALE

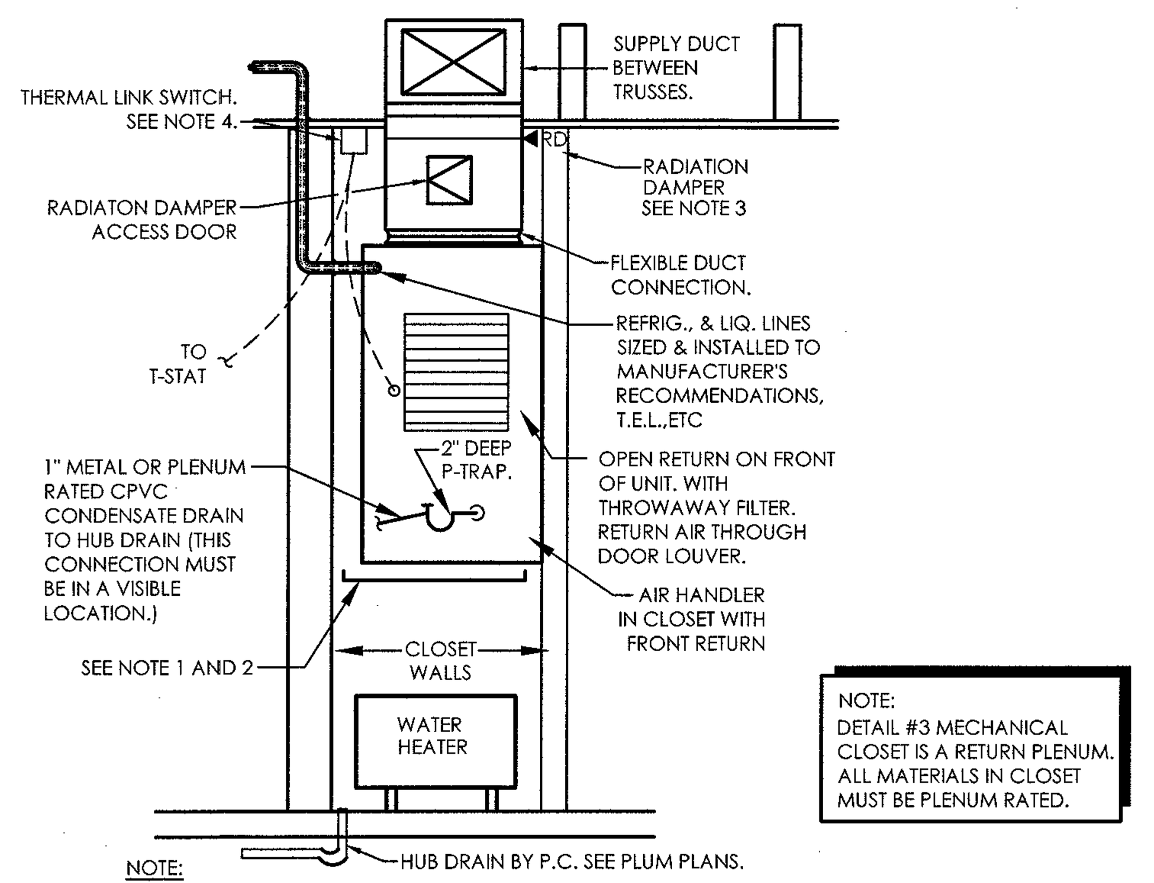


NOTE:
FLEX DUCT TURN INTO DIFFUSER TO BE REPLACED BY INSULATED SHEET METAL ELBOW FOR (3) FARTHEST CEILING DIFFUSERS FROM AIR HANDLER.

NOTES:
1. PROVIDE INSULATED REGISTER BOOT/PLENUM BOX IF NECESSARY.
2. RETURN APPLICATION IS SIMILAR. ALL ELBOWS IN RETURN APPLICATION TO BE INSULATED SHEET METAL (NO FLEX ELBOWS).

(4) DIFFUSER DETAIL (CLUBHOUSE)
NO SCALE

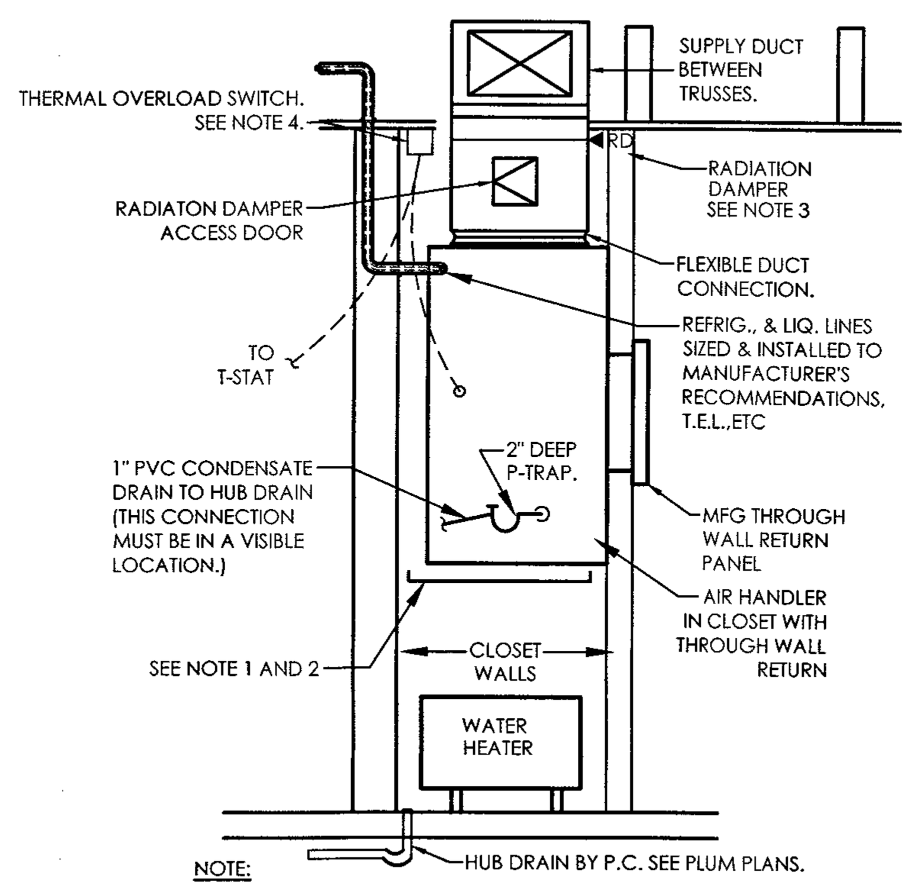
MECHANICAL REVIEWED FOR CODE COMPLIANCE THE CAPE CORAL BUILDING DIVISION DATE 12/26/19 BY ALL MECHANICAL INSTALLATION SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL CODES. GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES



NOTE:
DETAIL #3 MECHANICAL CLOSET IS A RETURN PLENUM. ALL MATERIALS IN CLOSET MUST BE PLENUM RATED.

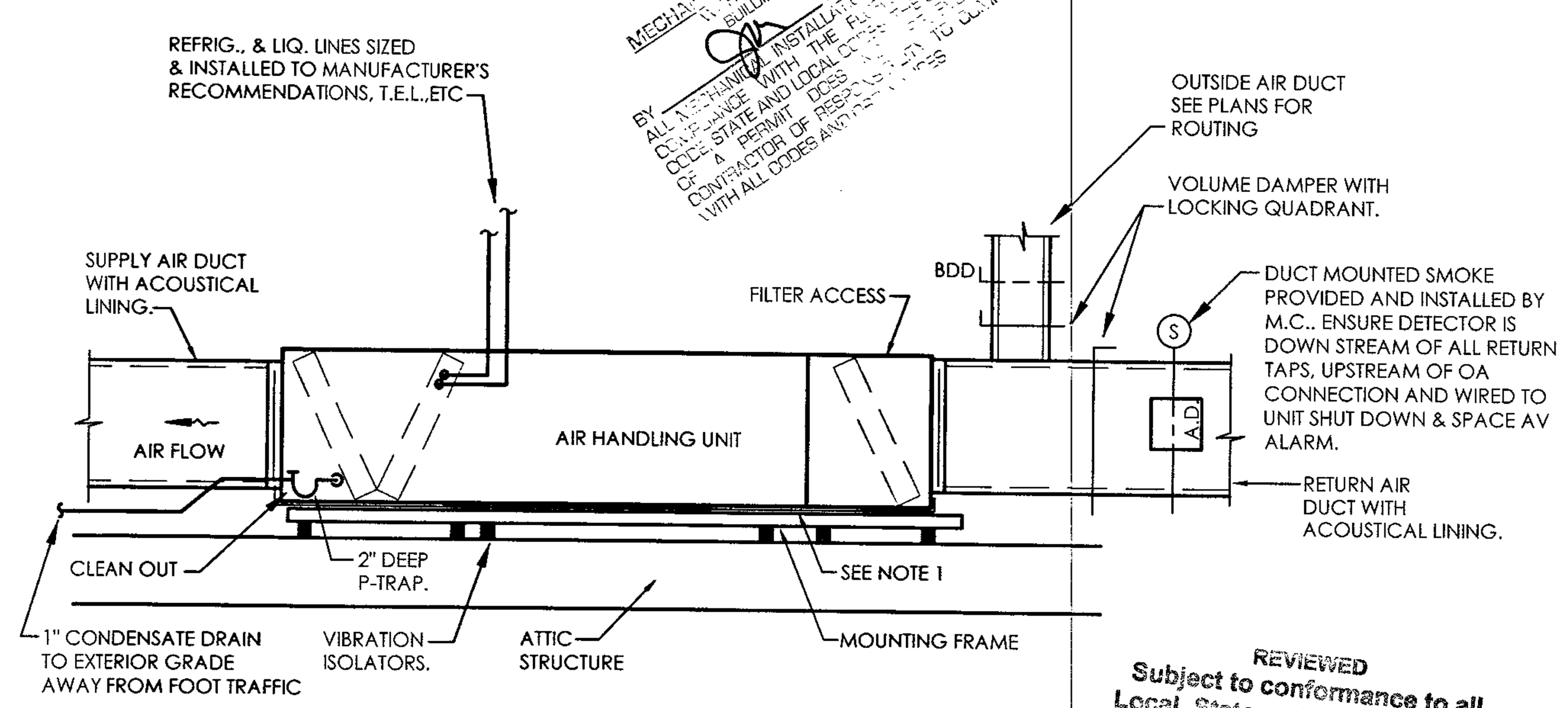
NOTE:
1. AUXILIARY DRAIN PAN WITH MICROFLOAT SWITCH. INTERLOCK FLOAT SWITCH WITH AIR HANDLER. MAY BE INTEGRAL TO AIR HANDLER.
2. COORDINATE INSTALLATION WITH P.C. AND WATER HEATER BELOW AH.
3. RADIATION DAMPER TO BE CURTAIN STYLE, METAL-FAB MCCD CURTAIN STYLE. INSTALL IN VERTICAL SECTION OF SUPPLY DUCT PRIOR TO 90° ELBOW. THERMAL LINK TO BE SET TO 165°F.
4. M.C. TO PROVIDE OVERLOAD SWITCH AT CEILING EQUAL TO GLOVE TECHNOLOGIES 327155. SET TO 155°F. WIRE AH CONTROLS VIA SWITCH. AH TO SHUT DOWN UPON SWITCH OPENING.

(3) WALL HUNG AIR HANDLER DETAIL (AH-2)
NO SCALE



NOTE:
1. AUXILIARY DRAIN PAN WITH MICROFLOAT SWITCH. INTERLOCK FLOAT SWITCH WITH AIR HANDLER. MAY BE INTEGRAL TO AIR HANDLER.
2. COORDINATE INSTALLATION WITH P.C..
3. RADIATION DAMPER TO BE CURTAIN STYLE, METAL-FAB MCCD CURTAIN STYLE. INSTALL IN VERTICAL SECTION OF SUPPLY DUCT PRIOR TO 90° ELBOW.
4. M.C. TO PROVIDE OVERLOAD SWITCH AT CEILING EQUAL TO GLOVE TECHNOLOGIES 327155. SET TO 155°F. WIRE AH CONTROLS VIA SWITCH. AH TO SHUT DOWN UPON SWITCH OPENING.

(2) WALL HUNG AIR HANDLER DETAIL (AH-1 & AH-3)
NO SCALE



NOTES:
1. 1-1/2" DEEP AUXILIARY DRAIN PAN WITH MICROFLOAT SWITCH. INTERLOCK FLOAT SWITCH WITH AIR HANDLER. INSTALL FLOAT SWITCH IN ONE CORNER OF PAN AND TILT PAN TO THAT CORNER.

REVIEWED
Subject to conformance to all Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: CR

(1) AIR HANDLING UNIT DETAIL (AH-5, AH-6, AH-7, AH-8, AH-9)
NO SCALE

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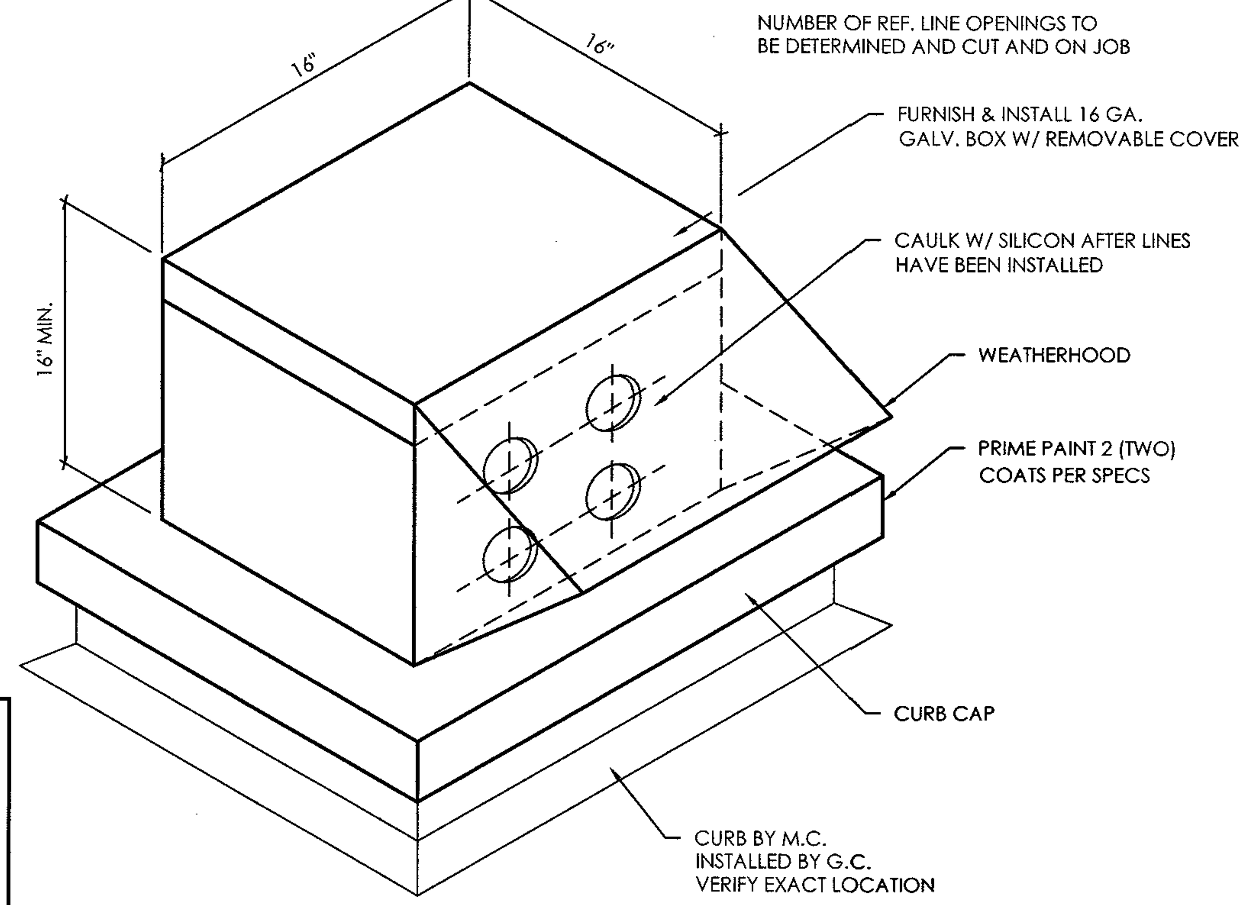
FL COA #: 3316

ISSUE DATE: 07.19.19

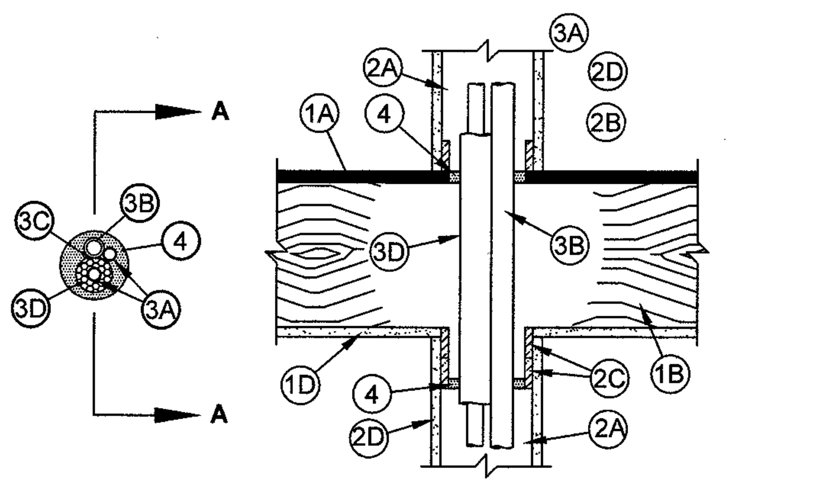
REVISIONS		
NUMBER	DATE	INITIALS / DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: RMH
CHECKED BY: ZLT
SHEET TITLE: MECHANICAL DETAILS
SHEET NUMBER: M0.03



5 REFRIGERANT BOX DETAIL (ROOF)
NO SCALE

System No. F-C-8036
F Rating - 1 Hr
T Rating - 1 Hr



1. **Floor-Ceiling Assembly -** The 1 hr fire rated wood joist, wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory and shall include the following construction features:
   - A. **Flooring System -** Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Diam of floor opening to be min 1/2 in. (13 mm) to max 1 in. (25 mm) larger than outside diameter of individual or grouped penetrants. Max diam of floor opening is 3 in. (76 mm).
   - B. **Joists -** Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, wood trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.
   - C. **Furring Channels -** (Not Shown) - Resilient galv steel furring channels installed perpendicular to wood joists (Item 1B) as required in the individual Floor-Ceiling Design.
   - D. **Gypsum Board* -** Nom 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Diam of opening in ceiling to be min 1/2 in. (13 mm) to max 1 in. (25 mm) larger than outside diameter of individual or grouped penetrants. Max diam of ceiling opening is 3 in. (76 mm).
2. **Chase Wall** - (Optional) - The through penetrant (Item 3) may be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum board chase wall constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   - A. **Studs -** Nom 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
   - B. **Sole Plate -** Nom 2 by 6 in. (51 by 152 mm) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening in sole plate to be min 1/2 in. (13 mm) to max 1 in. (25 mm) larger than outside diameter of individual or grouped penetrants.Max diam of opening is 3 in. (76 mm).
   - C. **Top Plate** - The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening in top plate to be min 1/2 in. (13 mm) to max 1 in. (25 mm) larger than outside diameter of individual or grouped penetrants. Max diam of opening is 3 in. (76 mm).
   - D. **Gypsum Board*** - Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.
3. **Through Penetrants -** Pipes, conduits, tubing and cables to be bundled and centered in the opening. The space between penetrants and edge of opening shall be min 1/4 in. (6 mm) to max 3/4 in. (19 mm). Penetrants to be rigidly supported on both sides of the floor-ceiling assembly:
   - A. **Metallic Pipes -** A max of two metallic pipes, conduits or tubing, (one 3/4 in. or 19 mm diam and one 1/2 in. or 13 mm diam) to be installed within the firestop system. The following types and sizes of metallic pipes, conduits or tubing may be used:
   - A1. **Steel Pipe** - Nom 3/4 in. (19 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   - A2. **Conduit** - Nom 3/4 in. (19 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
   - A3. **Copper Tubing** - Nom 3/4 in. (19 mm) diam (or smaller) Type L (or heavier) copper tubing.
   - A4. **Copper Pipe** - Nom 3/4 in. (19 mm) diam (or smaller) Regular (or heavier) copper pipe.
   - B. **Nonmetallic Pipes** - A max of one nonmetallic pipe to be installed within the firestop system. The following types and sizes of nonmetallic pipes may be used:
   - B1. **Polyvinyl Chloride - (PVC) Pipe -** Nom 1/2 in. (13 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   - B2. **Chlorinated Polyvinyl Chloride (PVC) Pipe -** Nom 1/2 in. (13 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   - C. **Cables -** A max of two 4/C No. 18 AWG (or smaller) thermostat cables with PVC insulation and PVC/nylon jacketing material.
   - D. **Tube Insulation** - **Plastic+** - Nom 1/2 in. (13 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Tube insulation to be installed on a max of one metallic pipe or tubing.

     See **Plastics+** (QMFZ2) category in the Plastics Recognized Components Directory for names of manufacturers. Any recognized component tube insulation meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.
4. **Fill, Void or Cavity Material* - Caulk** - Min 3/4 in. (19 mm) thickness of fill material applied within annulus on top surface of floor. Min 5/8 in. (16 mm) thickness of fill material applied within annulus on lower top plate of chase wall assembly or gypsum board ceiling. Fill material forced into grouped penetrant interstices to max extent possible.

   SPECIFIED TECHNOLOGIES INC - Type WF300 Caulk

   +Bearing the UL Recognized Component Mark

   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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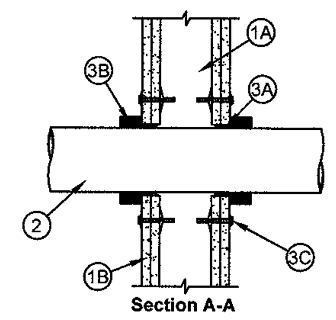
XXXXXXXXX
PAGE 2 OF 2

3 AC LINE SET (WOOD FLOOR/CEILING) UL DETAIL
NO SCALE

System No. W-L-2059
F Ratings - 1 and 2 Hr (See Items 2 and 3)
T Ratings - 3/4, 1, 1-1/2 and 2 Hr (See Items 2 and 3)
L Rating At Ambient - 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



1. Wall Assembly - The 1 or 2 h fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 and V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   - A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   - B. Gypsum Board* - 5/8 in. (16 mm) thick, 4 ft (1219 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in. (127 mm).
2. Through-Penetrants - One nonmetallic pipe or conduit to be centered within the firestop system. The annular space shall be max 1/4 in. (6 mm). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
   - A. Polyvinyl Chloride (PVC) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 or 80 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. When Schedule 80 PVC pipe is used, the F and T Ratings are 1 hr. When Scheduled 80 PVC pipe is used in closed (process or supply) piping systems, the F and T Ratings are equal to the assembly rating of the wall in which it is installed.
   - B. Rigid Nonmetallic Conduit+ - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 or 80 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70). When Schedule 80 PVC conduit is used, the F and T Ratings are 1 hr.
   - C. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
   - D. Acrylonitrile Butadiene Styrene (ABS) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or foamed core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   - E. Fire Retardant Polypropylene (FRPP) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   - F. Polyvinylidene Fluoride (PVDF) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   - G. Fiberglass Reinforced Pipe (FRP) Pipe - Nom 4 in. (102 mm) diam (or smaller) glass fiber reinforced thermosetting resin pipe for use in closed (process or control) or vented (drain, waste or vent) piping systems. When FRP pipe is used, T Rating is 3/4 hr.
   - H. High Density Polyethylene (HDPE) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 HDPE pipe for use in closed (process or supply) piping systems.
3. Firestop System - The firestop system shall consist of the following:
   - A. Fill, Void or Cavity Material* - Sealant - Fill material forced into annular space to max extent possible. Caulk shall be installed flush with both surfaces of wall assembly.

     SPECIFIED TECHNOLOGIES INC - SpecSeal 100, 101, 102, 105, 120 or 129 Sealant, SpecSeal LCI Sealant, Pensil 300 Sealant or SpecSeal Series SIL300 Sealant
   - B. Fill, Void or Cavity Material - Wrap Strip - Nom 1/8 or 3/16 in. (3.2 or 4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips or nom 1/4 in. (6 mm) thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. (38 mm) wide strips. The layers of wrap strips are individually wrapped around the through-penetrant with ends butted and held in place with masking tape. Butted ends in successive layers shall be aligned.

Fire Rating of Wall Hr	Max Diam of Throught Penetrant in. (mm)	No. of Wrap Strip Layers	F Rating Hr	T Rating Hr
1	1-1/2 (38)	1	1	1
2	1-1/2 (38)	1	2	1-1/2
1	2 (51)	1	1	1
2	2 (51)	1	2	1-1/2
1	3 (76)	2	1	1
2	3 (76)	2	2	2
1	4 (102)	3	1	1
2	4 (102)	3	2	2

Except as noted in Item 2, the F and T Rating of the firestop system is dependent upon the fire rating of wall, diam of through penetrant and the number of wrap strips as tabulated below:

SPECIFIED TECHNOLOGIES INC - SpecSeal BLU Wrap Strip, SpecSeal BLU2 Wrap Strip or SpecSeal RED Wrap Strip

   - C. Steel Collar - Collar fabricated from coils of precut 0.016 in. (0.4 mm) thick (30 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be min 1-1/2 in. (38 mm) deep with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs for securement to the concrete floor or wall. Retainer tabs, 3/4 in. (19 mm) wide tapering down to 1/4 in. (6 mm) wide and located opposite the anchor tabs, are folded 90 degree toward pipe surface to maintain the annular space around the pipe and to retain the wrap strips. Steel collar wrapped around wrap strips and pipe with a 1 in. (25 mm) wide overlap along its perimeter joint and secured together by means of a min 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel hose clamp installed at mid-depth of the steel collar. As an alternate to the steel hose clamp, the steel collar may be secured together by means of three No. 8 by 1/4 in. (6 mm) long steel sheet metal screws when more than one layer of wrap strip is used.

     Wrap strip/collar assembly is slid along the through-penetrant until abuts the surface of the wall. Collar secured to wall by 1/8 in. (3.2 mm) diam by 1-3/4 in. (44 mm) long steel molly bolts in conjunction with 1-1/4 in. (32 mm) diam steel fender washers. The number of molly bolts used is dependent upon the nom diam of the through penetrant. Two molly bolts, symmetrically located, are required for nom 1-1/2 in. (38 mm) and 2 in. (51 mm) diam through penetrants. Three molly bolts, symmetrically located, are required for nom 2-1/2 in. (64 mm) and 3 in. (76 mm) diam through penetrants. Four molly bolts, symmetrically located, are required for nom 3-1/2 in. (89 mm) and 4 in. (102 mm) diam through penetrants. Steel collars are installed on each side of wall.
   - D. Firestop Device* - (Optional, Not Shown) - As an alternate to Item 3B and 3C, galv steel collar lined with an intumescent material sized to fit the specific diam of the through-penetrant. Device shall be installed around through-penetrant in accordance with accompanying installation instructions. Device incorporates anchor tabs for securement to each surface of wall assembly by means of 1/8 in. (3 mm) diam by 1-3/4 in. (45 mm) long steel molly bolts in conjunction with 1/4 in. (6 mm) diam by 1-1/2 in. (38 mm) diam steel fender washers.

     SPECIFIED TECHNOLOGIES INC - SpecSeal Firestop Collar, SpecSeal LCC Collar or SpecSeal SSC Collar . When SpecSeal LCC Collar or SpecSeal SSC Collar are used, the max annular space shall be 1/8 in. (3 mm) for max 2-1/2 in. (64 mm) diam pipe and shall be max 1/4 in. (6 mm) for pipe larger than 2-1/2 in. (64 mm) diam.

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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W-L-2059

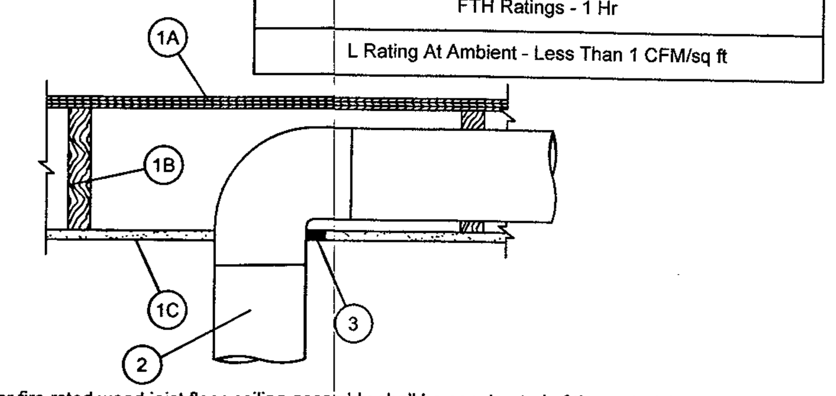
2 NON-METALLIC PIPE (GYPSUM WALL) DETAIL
NO SCALE

MECHANICAL REVIEWED FOR CODE COMPLIANCE WITH THE CITY OF CAPE CORAL BUILDING DIVISION DATE 12/26/19 BY [illegible]

REVIEWED
Subject to conformance to all Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: CR

System No. F-C-7060

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 1 Hr	F Rating - 1 Hr
T Ratings - 1 Hr	FT Ratings - 1 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 1 Hr
	FTH Ratings - 1 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft



1. **Floor - Ceiling Assembly -** The 1 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Designs in the UL Fire Resistance Directory, as summarized below:
   - A. **Flooring System -** Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design.
   - B. **Wood Joists -** Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.
   - C. **Gypsum Board* -** Thickness, type, number of layers and fasteners as required in the individual Floor-Ceiling Design. Diam of opening is to be max 1-1/2 in. (38 mm) larger than diam of steel duct.

1A. **Chase Wall -** (Optional, Not Shown) - The through penetrant (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. (13 mm) greater than diameter of opening cut in top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   - A. **Studs -** Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
   - B. **Sole Plate -** Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm)or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted.
   - C. **Top Plate -** The double top plate shall consist of two nom 2 by 4 in (51 by 102 mm)., two nom 2 by 6 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening is to be max 1-1/2 in. (38 mm) larger than diam of steel duct. As an alternate, the opening may be square-cut with a max dimension 1-1/2 in. (38 mm) greater than the diam of the pipe. Plates may be discontinuous over opening, terminating at two opposing edges of opening. Max length of discontinuity is 7-1/2 in. (191 mm).
   - D. **Steel Plate -** When lumber plates are discontinuous, nom 1-1/2 in. (38 mm) wide No. 20 gauge (or heavier) galv steel plates shall be installed to connect discontinuous lumber plates and to provide a form for the fill material. Steel plates sized to lap 2 in. (51 mm) onto each discontinuous lumber plate and secured to lumber plates with steel screws or nails.
   - E. **Gypsum Board* -** Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

2. **Steel Duct -** One nom 6 in. (152 mm) diam (or smaller) No. 30 GA (or heavier) galvanized steel duct to be installed either concentrically or eccentrically within the opening. Annular space to be min 0 in. (point contact) to max 1-1/2 in. (38 mm). Steel duct to be rigidly supported on both sides of floor-ceiling assembly.
3. **Fill, Void or Cavity Material* - Sealant -** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with bottom surface of ceiling or top plate. Min 1/4 in. (6 mm) diam bead of fill material applied at point contact location at the penetrant/ceiling or chase wall top plate interface.

   SPECIFIED TECHNOLOGIES INC - SpecSeal LCI Sealant, SpecSeal LC150 Sealant or Type WF300 Caulk

   *** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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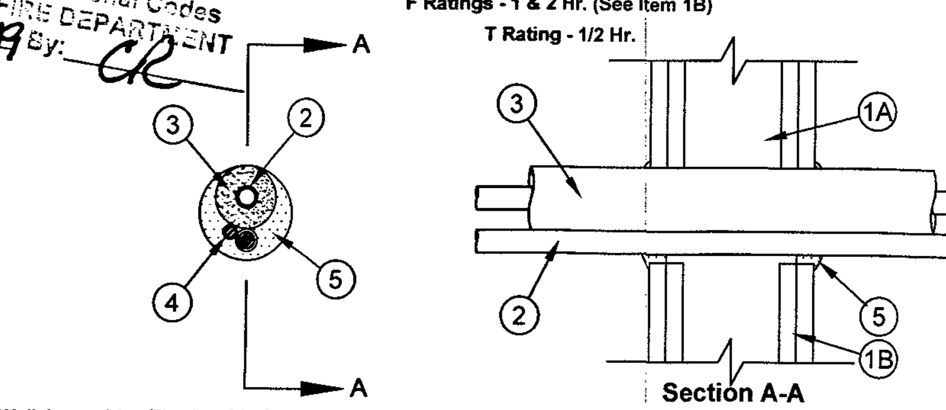
F-C-7060
PAGE 1 OF 1

4 DRYER DUCT PENETRATION (WOOD FLOOR/CEILING) DETAIL
NO SCALE

System No. W-L-8011
F Ratings - 1 & 2 Hr. (See Item 1B)
T Rating - 1/2 Hr.



1. **Wall Assembly - The 1 or 2 hr fire-rated gypsum board/stud wall assembly** shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   - A. **Studs -** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. O.C. with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. O.C.
   - B. **Gypsum Board* -** 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 3-1/2 in.

   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Through Penetrant -** A max of two pipes or tubing to be installed within the opening. Of the two pipes, or tubing, only one of the pipes or tubing shall have a nom diam greater than 1/2 in. The annular space between pipes or tubing and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipes or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   - A. **Steel Pipe -** Nom 1 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   - B. **Iron Pipe -** Nom 1 in. diam (or smaller) cast or ductile iron pipe.
   - C. **Copper Tubing -** Nom 1 in. diam (or smaller) Type L (or heavier) copper tubing.
   - D. **Copper Pipe -** Nom 1 in. diam (or smaller) Regular (or heavier) copper pipe.
3. **Tube Insulation - Plastics+ -** Nom 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The tube insulation may be installed on a max of one pipe or tubing. The annular space between penetrating item and periphery of opening shall be min 1/2 into max 3/4 in. The space between pipes or tubing shall be 0 in. (point contact)

   See **Plastics+** (QMFZ2) category in the Recognized Component Directory for names for manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
4. **Cables -** One 4 pair No. 18 AWG (or smaller) thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials. Cable to be spaced a min 0 in. (point contact) to max 1/2 in. from the other penetrants. The space between the cable and the periphery of the opening shall be a min 0 in. (point contact) to max 1/2 in. Cable to be rigidly supported on both sides of wall assembly.
5. **Fill, Void or Cavity Material* - Sealant - Min 5/8** in.thickness of fill material applied within annulus, flush with both surfaces of wall. Additional fill material to be to be forced into intersties within groups of penetrating items to max extent possible and installed such that a min 1/4 in. thick crown is formed around the penetrating items and lapping 1/4 in. beyond the periphery of the opening.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

   +Bearing the UL Recognized Component Mark

   *Bearing the UL Classification Mark

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W-L-8011
PAGE 1 OF 1

1 HVAC LINE SET (GYPSUM WALL) DETAIL
NO SCALE

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REVISION
OCT 15 2019
RESUBMIT

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10/9/19

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Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

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FL COA #: 3316
LIC.#: P-0990
F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: RMH
CHECKED BY: ZLT
SHEET TITLE: MECHANICAL DETAILS
SHEET NUMBER: M0.04

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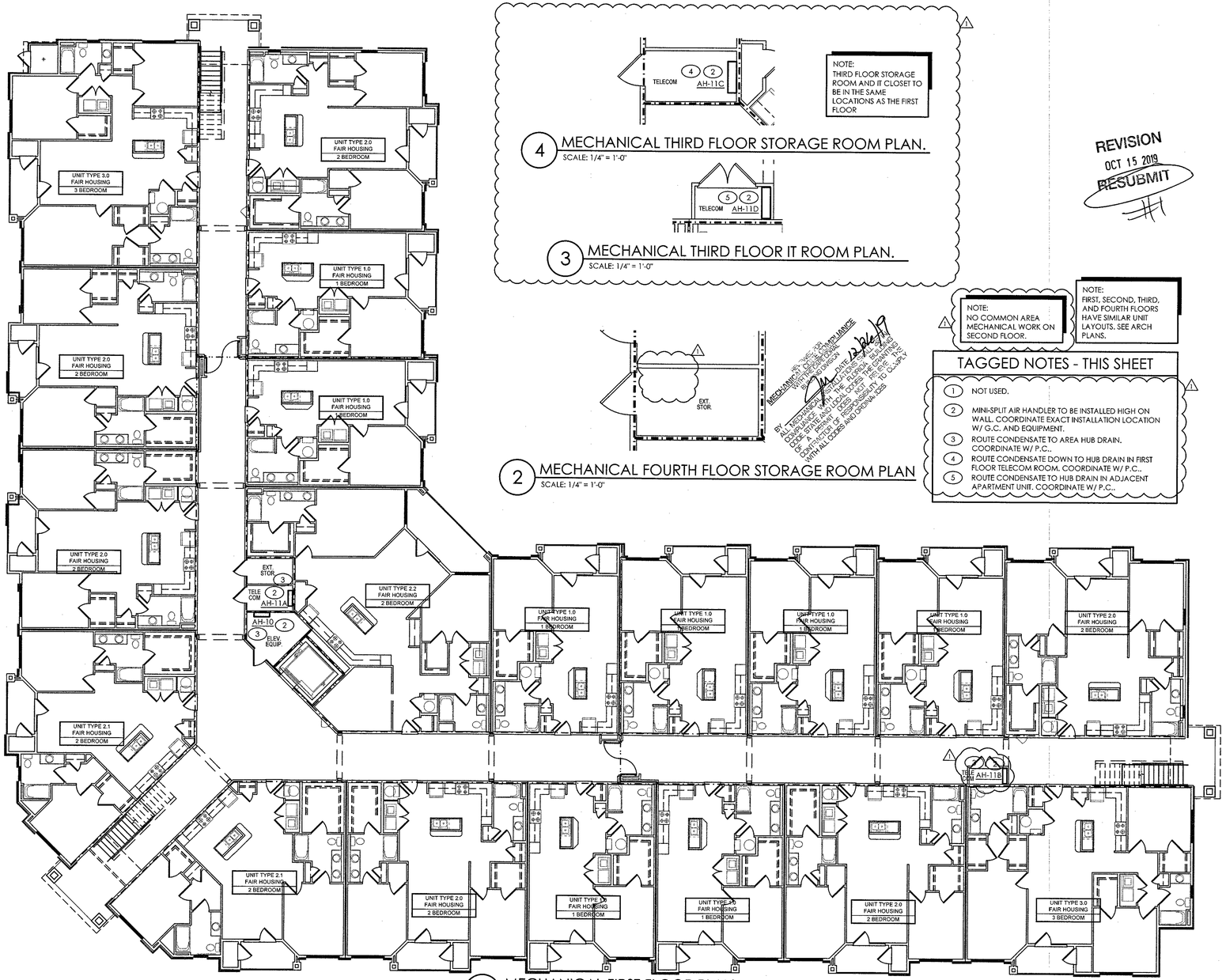
FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.



4 MECHANICAL THIRD FLOOR STORAGE ROOM PLAN.
SCALE: 1/4" = 1'-0"

NOTE:
THIRD FLOOR STORAGE ROOM AND IT CLOSET TO BE IN THE SAME LOCATIONS AS THE FIRST FLOOR

3 MECHANICAL THIRD FLOOR IT ROOM PLAN.
SCALE: 1/4" = 1'-0"

2 MECHANICAL FOURTH FLOOR STORAGE ROOM PLAN
SCALE: 1/4" = 1'-0"

MECHANICAL PRELIMINARY COMPLIANCE
BY: ALL MECHANICAL DOES NOT COMPLY WITH THE 2018 IRC CODE AND ALL APPLICABLE STATE AND LOCAL CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES

NOTE:
NO COMMON AREA MECHANICAL WORK ON SECOND FLOOR.

NOTE:
FIRST, SECOND, THIRD, AND FOURTH FLOORS HAVE SIMILAR UNIT LAYOUTS. SEE ARCH PLANS.

TAGGED NOTES - THIS SHEET

1. NOT USED.
2. MINI-SPLIT AIR HANDLER TO BE INSTALLED HIGH ON WALL. COORDINATE EXACT INSTALLATION LOCATION W/ G.C. AND EQUIPMENT.
3. ROUTE CONDENSATE TO AREA HUB DRAIN. COORDINATE W/ P.C..
4. ROUTE CONDENSATE DOWN TO HUB DRAIN IN FIRST FLOOR TELECOM ROOM. COORDINATE W/ P.C..
5. ROUTE CONDENSATE TO HUB DRAIN IN ADJACENT APARTMENT UNIT. COORDINATE W/ P.C..

1 MECHANICAL FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

REVISION
OCT 15 2019
RESUBMIT

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office (919) 846-8100
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ZACK L. TOMLIN LICENSE No. 79002 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/7/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

MAPLE ENGINEERING, INC.
FL COA #: 3316
708 ST. MARYS ST. RALEIGH, NC 27605 P:919-341-4247 F:919-890-3797
LIC #: P-0992
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION
	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: RMH
CHECKED BY: ZLT
SHEET TITLE: MECHANICAL BUILDING PLAN
SHEET NUMBER: M1.10

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2. Contractor is to notify architect immediately of conditions or items varying from depicted information.
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4. Planworx Architecture, P.A. will not assume any liability for expenses associated with errors and omissions on these drawings unless offset by verified construction savings as a result of planworx architecture, p.A. Design.
5. Planworx Architecture, P.A. retains ownership of all of designs depicted and implied herein.
6. Planworx Architecture, P.A. is not responsible for estimating, maintaining, or regulating construction costs associated with these plans.

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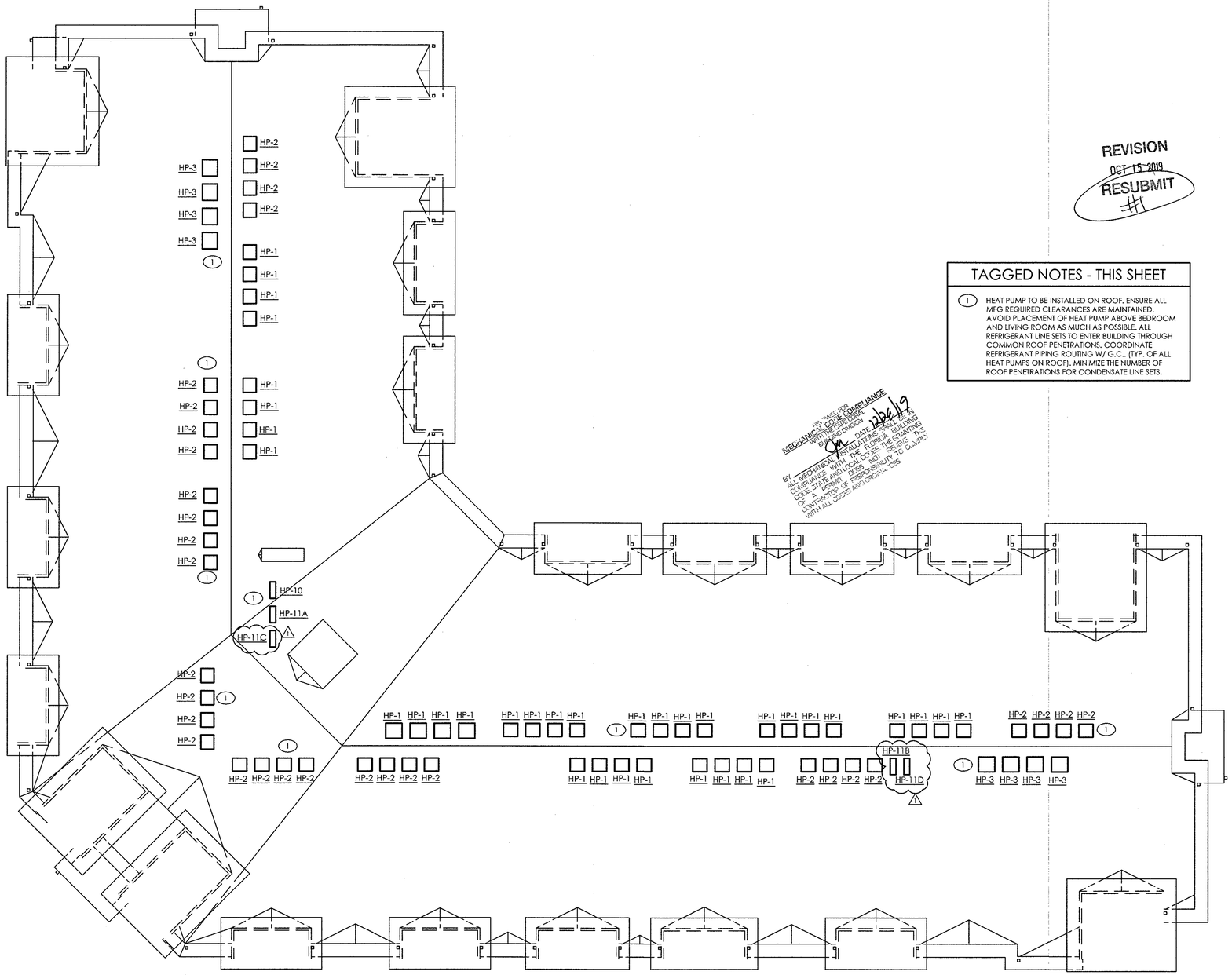
10/8/2019 6:39 PM
PLX-1906-M1.10.DWG



1 MECHANICAL ROOF PLAN
SCALE: 3/32" = 1'-0"

REVISION
OCT 15 2019
RESUBMIT #1

TAGGED NOTES - THIS SHEET

1. HEAT PUMP TO BE INSTALLED ON ROOF. ENSURE ALL MFG REQUIRED CLEARANCES ARE MAINTAINED. AVOID PLACEMENT OF HEAT PUMP ABOVE BEDROOM AND LIVING ROOM AS MUCH AS POSSIBLE. ALL REFRIGERANT LINE SETS TO ENTER BUILDING THROUGH COMMON ROOF PENETRATIONS. COORDINATE REFRIGERANT PIPING ROUTING W/ G.C.. (TYP. OF ALL HEAT PUMPS ON ROOF). MINIMIZE THE NUMBER OF ROOF PENETRATIONS FOR CONDENSATE LINE SETS.

MECHANICAL SHEETS FOR COMPLIANCE WITH THE FLORIDA BUILDING CODE
BY ON DATE 12/24/19
ALL MECHANICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL LAWS. THE BUILDING OFFICIAL DOES NOT HAVE THE RESPONSIBILITY TO ENSURE A CONTRACTOR OR DESIGNER COMPLIES WITH ALL CODES AND ORDINANCES

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION
	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: DPA
CHECKED BY: ZLT
SHEET TITLE: MECHANICAL ROOF PLAN
SHEET NUMBER: M1.20

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10/8/2019 6:39 PM
PLX-1906-M120.DWG

MECHANICAL VENTILATION CALCULATIONS

ROOM	LIVING AREA (SQFT)	AVG. CEILING HEIGHT (FT)	LIVING AREA VOLUME (CU. FT)	# OF BEDROOMS	# OF OCCUPANTS	REQUIRED OUTSIDE AIR (CFM)
TYPE 1.0 FAIR HOUSING	657	9	5913	1	2	34
TYPE 2.0 FAIR HOUSING	965	9	8685	2	3	51

MECHANICAL VENTILATION CALCULATIONS (CONT.)

APARTMENT UNIT	EXHAUST FAN	EXHAUST FAN CFM	AUTOMATIC OPERATION TIME PER HOUR (MINUTES)	PROVIDED VENTILATION (CFM)
TYPE 1.0 FAIR HOUSING	EF-8	110	19	35
TYPE 2.0 FAIR HOUSING	EF-9	110	28	51

DRYER VENT LENGTH

2017 FLMC SEC 504.8

"UNIT TYPE 2.0 FAIR HOUSING LAUNDRY":
(1) 90° BEND = 5' + 9' (V) + 28' (H) = 42' > 35'

1. INSTALLED DRYER MUST BE RATED BY MFG FOR VENT LENGTH OF 42' OR GREATER WHEN INSTALLED W/ (1) 4Ø 90° ELBOW(S).
2. PROVIDE A PERMANENT PLACARD WITHIN 6' OF THE DRYER EXHAUST CONNECTION STATING EQUIVALENT LENGTH OF EXHAUST VENT. (2017 FLMC 504.8.5)
3. DRYER VENT DUCT EXCEEDS 35 EQUIVALENT FEET. M.C. IS TO PROVIDE FIELD INSPECTOR WITH INSTALLATION INSTRUCTIONS FOR MAKE AND MODEL OF DRYER TO BE INSTALLED. IF DRYER DUCT IS TO BE CONCEALED, FIELD INSPECTOR IS TO INSPECT DUCT BEFORE BEING ENCLOSED IN STRUCTURE. (2017 FLMC 504.8.4.2)
4. PROVIDE SHIELD PLATES ON THE FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4" OF MATERIAL BETWEEN DRYER DUCT AND FACE OF FRAMING MEMBER. SHIELD PLATES ARE TO BE OF STEEL AND HAVE A MINIMUM THICKNESS OF 0.062 INCHES AND EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES. (2017 FLMC 504.7)

DRYER VENT LENGTH

2017 FLMC SEC 504.8

"UNIT TYPE 1.0 FAIR HOUSING LAUNDRY":
(1) 90° BEND = 5' + 9' (V) + 18' (H) = 32' < 35'

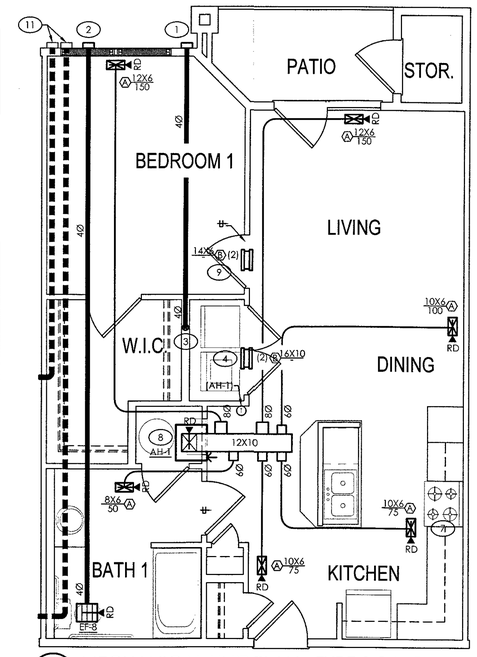
1. INSTALLED DRYER MUST BE RATED BY MFG FOR VENT LENGTH OF 32' OR GREATER WHEN INSTALLED W/ (1) 4Ø 90° ELBOW(S).
2. PROVIDE SHIELD PLATES ON THE FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4" OF MATERIAL BETWEEN DRYER DUCT AND FACE OF FRAMING MEMBER. SHIELD PLATES ARE TO BE OF STEEL AND HAVE A MINIMUM THICKNESS OF 0.062 INCHES AND EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES. (2017FLMC 504.7)

TAGGED NOTES - THIS SHEET

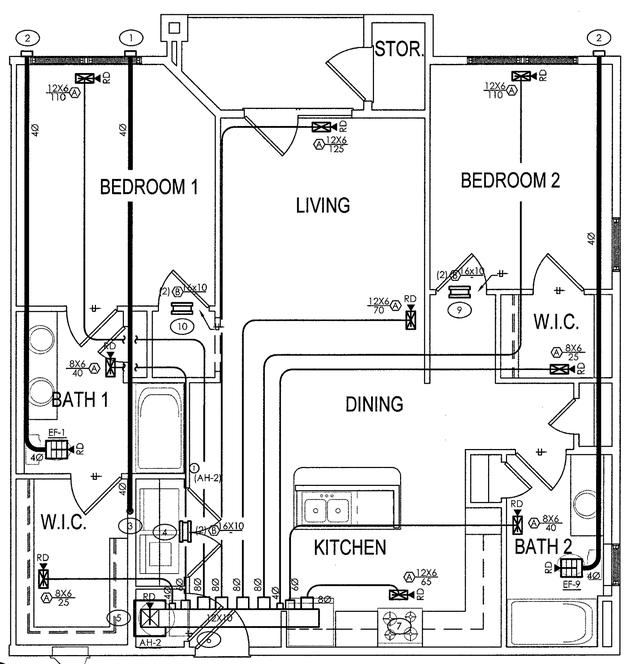
1. DRYER VENT TO WALL CAP W/ BDD (NO SCREEN). CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10' CLEARANCE FROM ALL BUILDING AIR INTAKES.
2. BATHROOM EXHAUST TO WALL CAP W/ BDD AND INSECT SCREEN. CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10' CLEARANCE FROM ALL BUILDING AIR INTAKES.
3. 4Ø DRYER VENT UP WALL. PROVIDE RECESSED DRYER BOX. SEE DETAIL REGARDING FIRE STOPPING OF DRYER VENT DUCTS.
4. PROVIDE TRANSFER GRILLE CENTERED OVER LAUNDRY CLOSET DOOR. GRILLE TO HAVE MINIMUM FREE AREA OF 100 SQIN. TURN BLADES TO FACE UP.
5. AIR HANDLER TO BE INSTALLED ON WALL IN CLOSET. SUPPLY TO DISCHARGE FROM TOP OF UNIT AND TO ABOVE CEILING. RETURN THROUGH FRONT OF UNIT. PROVIDE WITH FILTER. SEE DETAIL.
6. PROVIDE DOOR WITH LOUVER. LOUVER MINIMUM FREE AREA TO BE 480 SQIN. COORDINATE LOUVER SELECTION W/ ARCHITECT.
7. U.L. LISTED RE-CIRCULATING EXHAUST HOOD BY G.C..
8. AIR HANDLER TO BE INSTALLED ON WALL IN CLOSET. SUPPLY TO DISCHARGE FROM TOP OF UNIT AND TO ABOVE CEILING. PROVIDE AIR HANDLER W/ MFG'S WALL PANEL FOR RETURN AIR AND AIR HANDLER ACCESS. SEE DETAIL.
9. PROVIDE TRANSFER GRILLE CENTERED OVER BEDROOM DOOR. GRILLE TO HAVE MINIMUM GRILLE AREA OF 75 SQIN. TURN BLADES TO FACE UP. PROVIDE 1" DOOR UNDERCUT.
10. PROVIDE TRANSFER GRILLE CENTERED OVER BEDROOM DOOR. GRILLE TO HAVE MINIMUM GRILLE AREA OF 100 SQIN. TURN BLADES TO FACE UP. PROVIDE 1" DOOR UNDERCUT.
11. UNITS TYPE 1.0 ADJACENT TO UNITS TYPE 2.2 TO HAVE BATHROOM AND/OR DRYER EXHAUST DUCT SERVING UNIT TYPE 2.2 ROUTED ABOVE CEILING IN AREA SHOWN BY DASHED LINE. SEE SHEET M132 FOR UNIT TYPE 2.2 DUCT ROUTING DETAILS.

GENERAL NOTES - THIS SHEET

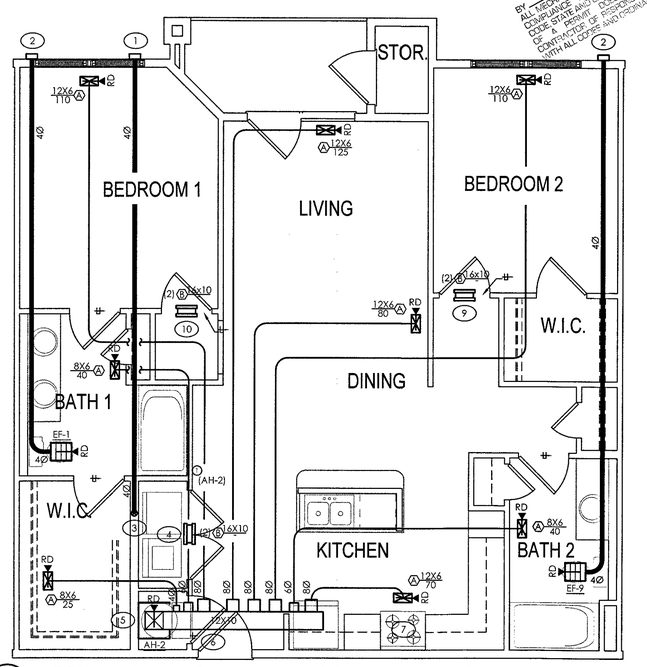
1. DUCTWORK ROUTING TO BE COORDINATED WITH STRUCTURE AND TRUSS SPACING.
2. SEE BLDG ROOF PLAN ON SHEET M1.20 FOR CONDENSING UNIT LOCATIONS.
3. NO FLEXIBLE DUCTWORK TO BE USED FOR EXHAUST APPLICATIONS. RIGID METAL DUCTWORK ONLY.
4. AIR HANDLERS STACKED ABOVE WATER HEATERS. SEE DETAIL AND COORDINATE WITH P.C..
5. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
6. MECHANICAL CLOSETS AND THEIR CONTENTS MUST BE PLENUM RATED IN UNIT TYPE 2.0.
7. M.C. TO COORDINATE DUCT LOCATIONS WITH P.C. AND AREA PLUMBING STACKS AND OVERHEAD WASTE AND VENT PIPING.
8. M.C. TO COORDINATE WITH E.C. AND AREA PANEL FEEDER LOCATIONS.
9. M.C. TO COORDINATE WITH FIRE SPRINKLER CONTRACTOR AND AREA SPRINKLER PIPING.
10. SEE DETAILS REGARDING FIRE STOPPING OF DRYER EXHAUST DUCTS.



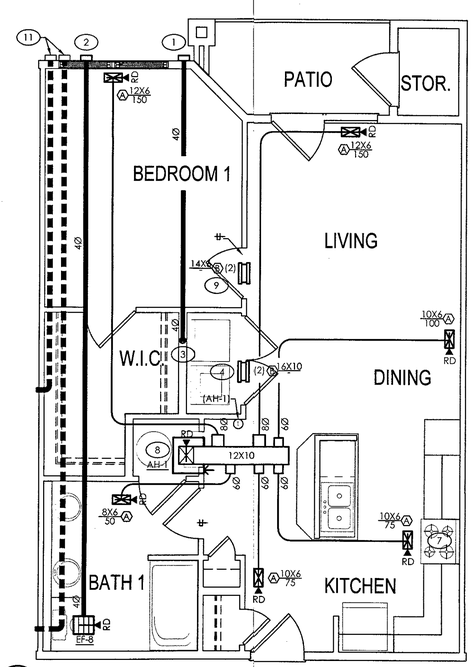
4 MECHANICAL UNIT PLAN - TYPE 1.0 MOBILITY
SCALE: 1/4" = 1'-0"



3 MECHANICAL UNIT PLAN - TYPE 2.0 FAIR HOUSING END UNIT
SCALE: 1/4" = 1'-0"



2 MECHANICAL UNIT PLAN - TYPE 2.0 FAIR HOUSING INTERIOR
SCALE: 1/4" = 1'-0"



1 MECHANICAL UNIT PLAN - TYPE 1.0 FAIR HOUSING
SCALE: 1/4" = 1'-0"

MECHANICAL REVIEWED FOR CODE COMPLIANCE ONLY. BY 12/26/19
ALL MECHANICAL RELATED ITEMS SHALL BE IN COMPLIANCE WITH LOCAL FLORIDA BUILDING CODE & PERMIT CONDITIONS. NOT REVIEWED FOR CONTRACTOR OF RESPONSIBILITY TO ELIMINATE WITH ALL CODES AND/OR DRAWINGS

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~~OCT 15 2019~~
RESUBMIT #1

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PROFESSIONAL ENGINEER
10/9/19

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	REVISIONS		
	NUMBER	DATE	INITIALS	DESCRIPTION
07.19.19				

PROJECT NO: PLX-1906
DRAWN BY: RMH
CHECKED BY: ZLT
SHEET TITLE: MECHANICAL UNIT PLANS
SHEET NUMBER: M1.30

10/8/2019 6:39 PM
PLX-1906-M130.DWG

MECHANICAL VENTILATION CALCULATIONS

ROOM	LIVING AREA (SQFT)	AVG. CEILING HEIGHT (FT)	LIVING AREA VOLUME (CU. FT)	# OF BEDROOMS	# OF OCCUPANTS	REQUIRED OUTSIDE AIR (CFM)
TYPE 2.1 FAIR HOUSING	977	9	8793	2	3	51

MECHANICAL VENTILATION CALCULATIONS (CONT.)

APARTMENT UNIT	EXHAUST FAN	EXHAUST FAN CFM	AUTOMATIC OPERATION TIME PER HOUR (MINUTES)	PROVIDED VENTILATION (CFM)
TYPE 2.1 FAIR HOUSING	EF-9	110	28	51

DRYER VENT LENGTH

2017 FLMC SEC 504.8

"UNIT TYPE 2.1 LAUNDRY":
(2) 90° BEND = 10' + 9' (V) + 28' (H) = 47' > 35'

1. INSTALLED DRYER MUST BE RATED BY MFG FOR VENT LENGTH OF 47' OR GREATER WHEN INSTALLED W/ (2) 4Ø 90° ELBOW(S).
2. PROVIDE A PERMANENT PLACARD WITHIN 6' OF THE DRYER EXHAUST CONNECTION STATING EQUIVALENT LENGTH OF EXHAUST VENT. (2017 FLMC 504.8.5)
3. DRYER VENT DUCT EXCEEDS 35 EQUIVALENT FEET. M.C. IS TO PROVIDE FIELD INSPECTOR WITH INSTALLATION INSTRUCTIONS FOR MAKE AND MODEL OF DRYER TO BE INSTALLED. IF DRYER DUCT IS TO BE CONCEALED, FIELD INSPECTOR IS TO INSPECT DUCT BEFORE BEING ENCLOSED IN STRUCTURE. (2017 FLMC 504.8.4.2)
4. PROVIDE SHIELD PLATES ON THE FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4" OF MATERIAL BETWEEN DRYER DUCT AND FACE OF FRAMING MEMBER. SHIELD PLATES ARE TO BE OF STEEL AND HAVE A MINIMUM THICKNESS OF 0.062 INCHES AND EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES. (2017 FLMC 504.7)

TAGGED NOTES - THIS SHEET

1. DRYER VENT TO WALL CAP W/ BDD (NO SCREEN). CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10' CLEARANCE FROM ALL BUILDING AIR INTAKES.
2. BATHROOM EXHAUST TO WALL CAP W/ BDD AND INSECT SCREEN. CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10' CLEARANCE FROM ALL BUILDING AIR INTAKES.
3. 4Ø DRYER VENT UP WALL. PROVIDE RECESSED DRYER BOX. SEE DETAIL REGARDING FIRE STOPPING OF DRYER VENT DUCTS.
4. PROVIDE TRANSFER GRILLE CENTERED OVER LAUNDRY CLOSET DOOR. GRILLE TO HAVE MINIMUM FREE AREA OF 100 SQIN. TURN BLADES TO FACE UP.
5. AIR HANDLER TO BE INSTALLED ON WALL IN CLOSET. SUPPLY TO DISCHARGE FROM TOP OF UNIT AND TO ABOVE CEILING. RETURN THROUGH FRONT OF UNIT. SEE DETAIL.
6. PROVIDE DOOR WITH LOUVER. LOUVER MINIMUM FREE AREA TO BE 480 SQIN. COORDINATE LOUVER SELECTION W/ ARCHITECT.
7. U.L. LISTED RE-CIRCULATING EXHAUST HOOD BY G.C..
8. PROVIDE TRANSFER GRILLE CENTERED OVER BEDROOM DOOR. GRILLE TO HAVE MINIMUM GRILLE AREA OF 75 SQIN. TURN BLADES TO FACE UP. PROVIDE 1" DOOR UNDERCUT.
9. PROVIDE TRANSFER GRILLE CENTERED OVER BEDROOM DOOR. GRILLE TO HAVE MINIMUM GRILLE AREA OF 100 SQIN. TURN BLADES TO FACE UP. PROVIDE 1" DOOR UNDERCUT.

GENERAL NOTES - THIS SHEET

1. DUCTWORK ROUTING TO BE COORDINATED WITH STRUCTURE AND TRUSS SPACING.
2. SEE BLDG PLAN FOR HEAT PUMP LOCATIONS.
3. NO FLEXIBLE DUCTWORK TO BE USED FOR EXHAUST APPLICATIONS. RIGID METAL DUCTWORK ONLY.
4. AIR HANDLERS STACKED ABOVE WATER HEATER. SEE DETAIL AND COORDINATE WITH P.C..
5. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
6. MECHANICAL CLOSETS AND THEIR CONTENTS MUST BE PLENUM RATED.
7. M.C. TO COORDINATE DUCT LOCATIONS WITH P.C. AND AREA PLUMBING STACKS AND OVERHEAD WASTE AND VENT PIPING.
8. M.C. TO COORDINATE WITH E.C. AND AREA PANEL FEEDER LOCATIONS.
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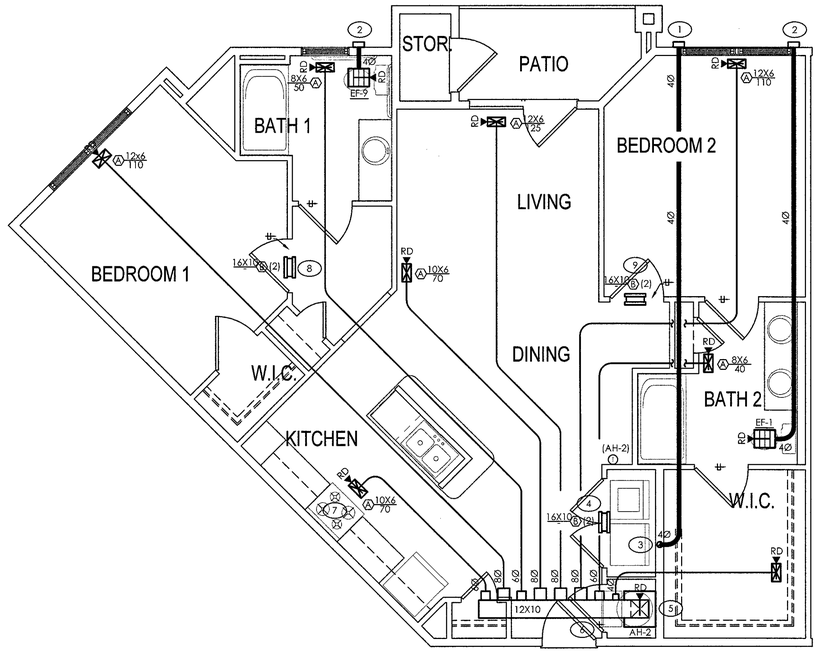
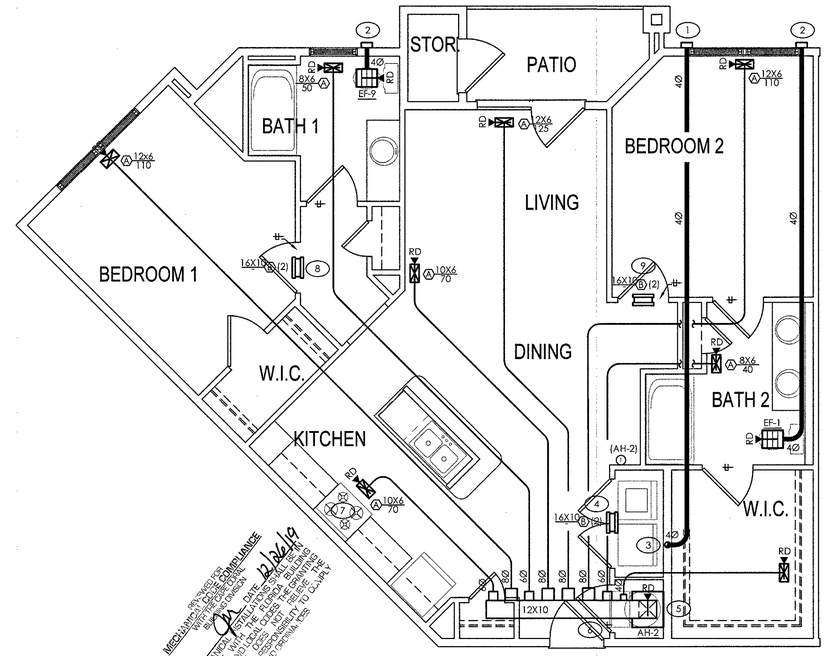
10. SEE DETAILS REGARDING FIRE STOPPING OF DRYER EXHAUST DUCTS.

REVISION
OCT 15 2019
RESUBMIT



2 MECHANICAL UNIT PLAN - TYPE 2.1 MOBILITY
SCALE: 1/4" = 1'-0"



MECHANIC PROVIDES ELECTRICAL CONNECTIONS WITH POWER DOWNSTREAM OF DISCONNECT
BY: ZLT DATE: 11/06/19
ALL MECHANICAL EQUIPMENT INSTALLATIONS SHALL BE COMPLETE AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES

1 MECHANICAL UNIT PLAN - TYPE 2.1 FAIR HOUSING
SCALE: 1/4" = 1'-0"

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19	DESCRIPTION
REVISIONS		
NUMBER	DATE	INITIALS

PROJECT NO: PLX-1906
DRAWN BY: RMH
CHECKED BY: ZLT
SHEET TITLE: MECHANICAL UNIT PLANS
SHEET NUMBER: M1.31

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MECHANICAL VENTILATION CALCULATIONS

ROOM	LIVING AREA (SQFT)	AVG. CEILING HEIGHT (FT)	LIVING AREA VOLUME (CU. FT)	# OF BEDROOMS	# OF OCCUPANTS	REQUIRED OUTSIDE AIR (CFM)
TYPE 2.2 FAIR HOUSING	1305	9	11745	2	3	69

MECHANICAL VENTILATION CALCULATIONS (CONT.)

APARTMENT UNIT	EXHAUST FAN	EXHAUST FAN CFM	AUTOMATIC OPERATION TIME PER HOUR (MINUTES)	PROVIDED VENTILATION (CFM)
TYPE 2.2 FAIR HOUSING	EF-8	110	19	35
TYPE 2.2 FAIR HOUSING	EF-8	110	19	35
			TOTAL OUTSIDE AIR	70

DRYER VENT LENGTH

2017 FLMC SEC 504.8

"UNIT TYPE 2.2 LAUNDRY":
(2) 90º BEND = 10' + 9' (V) + 20' (H) = 39' > 35'

1. INSTALLED DRYER MUST BE RATED BY MFG FOR VENT LENGTH OF 39' OR GREATER WHEN INSTALLED W/ (2) 4Ø 90º ELBOW(S).
2. PROVIDE A PERMANENT PLACARD WITHIN 6' OF THE DRYER EXHAUST CONNECTION STATING EQUIVALENT LENGTH OF EXHAUST VENT. (2017 FLMC 504.8.5)
3. DRYER VENT DUCT EXCEEDS 35 EQUIVALENT FEET. M.C. IS TO PROVIDE FIELD INSPECTOR WITH INSTALLATION INSTRUCTIONS FOR MAKE AND MODEL OF DRYER TO BE INSTALLED. IF DRYER DUCT IS TO BE CONCEALED, FIELD INSPECTOR IS TO INSPECT DUCT BEFORE BEING ENCLOSED IN STRUCTURE. (2017 FLMC 504.8.4.2)
4. PROVIDE SHIELD PLATES ON THE FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4" OF MATERIAL BETWEEN DRYER DUCT AND FACE OF FRAMING MEMBER. SHIELD PLATES ARE TO BE OF STEEL AND HAVE A MINIMUM THICKNESS OF 0.062 INCHES AND EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES. (2017 FLMC 504.7)

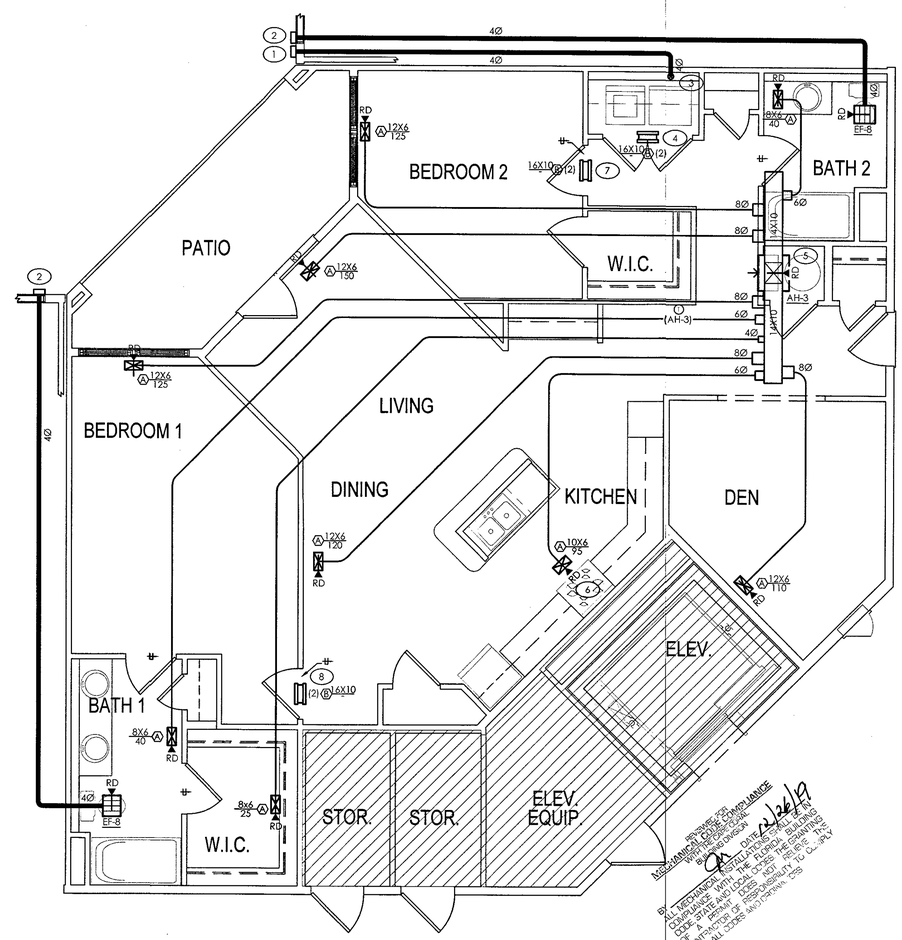
TAGGED NOTES - THIS SHEET

1. DRYER VENT ABOVE CEILING IN ADJACENT UNIT TYPE 1.0 TO WALL CAP W/ BDD (NO SCREEN). CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10' CLEARANCE FROM ALL BUILDING AIR INTAKES.
2. BATHROOM EXHAUST ABOVE CEILING IN ADJACENT UNIT TYPE 1.0 TO WALL CAP W/ BDD AND INSECT SCREEN. CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10' CLEARANCE FROM ALL BUILDING AIR INTAKES.
3. 4Ø DRYER VENT UP WALL. PROVIDE RECESSED DRYER BOX. SEE DETAIL REGARDING FIRE STOPPING OF DRYER VENT DUCTS.
4. PROVIDE TRANSFER GRILLE CENTERED OVER LAUNDRY CLOSET DOOR. GRILLE TO HAVE MINIMUM FREE AREA OF 100 SQIN. TURN BLADES TO FACE UP.
5. AIR HANDLER TO BE INSTALLED ON WALL IN CLOSET. SUPPLY TO DISCHARGE FROM TOP OF UNIT AND TO ABOVE CEILING. PROVIDE AIR HANDLER W/ MFG'S WALL PANEL FOR RETURN AIR AND AIR HANDLER ACCESS. SEE DETAIL.
6. U.L. LISTED RE-CIRCULATING EXHAUST HOOD BY G.C..
7. PROVIDE TRANSFER GRILLE CENTERED OVER BEDROOM DOOR. GRILLE TO HAVE MINIMUM GRILLE AREA OF 75 SQIN. TURN BLADES TO FACE UP. PROVIDE 1" DOOR UNDERCUT.
8. PROVIDE TRANSFER GRILLE CENTERED OVER BEDROOM DOOR. GRILLE TO HAVE MINIMUM GRILLE AREA OF 100 SQIN. TURN BLADES TO FACE UP. PROVIDE 1" DOOR UNDERCUT.

GENERAL NOTES - THIS SHEET

1. DUCTWORK ROUTING TO BE COORDINATED WITH STRUCTURE AND TRUSS SPACING.
2. SEE BLDG PLAN FOR HEAT PUMP LOCATIONS.
3. NO FLEXIBLE DUCTWORK TO BE USED FOR EXHAUST APPLICATIONS. RIGID METAL DUCTWORK ONLY.
4. AIR HANDLERS STACKED ABOVE WATER HEATERS. SEE DETAIL AND COORDINATE WITH P.C..
5. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
6. M.C. TO COORDINATE DUCT LOCATIONS WITH P.C. AND AREA PLUMBING STACKS AND OVERHEAD WASTE AND VENT PIPING.
7. M.C. TO COORDINATE WITH E.C. AND AREA PANEL FEEDER LOCATIONS.
8. M.C. TO COORDINATE WITH FIRE SPRINKLER CONTRACTOR AND AREA SPRINKLER PIPING.
9. SEE DETAILS REGARDING FIRE STOPPING OF DRYER EXHAUST DUCTS.

REVISION
OCT 15 2019
RESUBMIT



1 MECHANICAL UNIT PLAN - TYPE 2.2 FAIR HOUSING
SCALE: 1/4" = 1'-0"

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10/2/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

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LIC.#: P-0998 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: RMH
CHECKED BY: ZLT
SHEET TITLE: MECHANICAL UNIT PLANS
SHEET NUMBER: M1.32

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MECHANICAL VENTILATION CALCULATIONS

ROOM	LIVING AREA (SQFT)	AVG. CEILING HEIGHT (FT)	LIVING AREA VOLUME (CU. FT)	# OF BEDROOMS	# OF OCCUPANTS	REQUIRED OUTSIDE AIR (CFM)
TYPE 3.0 FAIR HOUSING	1192	9	10728	3	4	63

MECHANICAL VENTILATION CALCULATIONS (CONT.)

APARTMENT UNIT	EXHAUST FAN	EXHAUST FAN CFM	AUTOMATIC OPERATION TIME PER HOUR (MINUTES)	PROVIDED VENTILATION (CFM)
TYPE 3.0 FAIR HOUSING	EF-8	110	19	35
TYPE 3.0 FAIR HOUSING	EF-8	110	19	35
			TOTAL OUTSIDE AIR	70

DRYER VENT LENGTH

2017 FLMC SEC 504.8

"UNIT TYPE 3.0 LAUNDRY":
(1) 90° BEND = 5' + 9' (V) + 14' (H) = 28' < 35'

1. INSTALLED DRYER MUST BE RATED BY MFG FOR VENT LENGTH OF 28' OR GREATER WHEN INSTALLED W/ (1) 4Ø 90° ELBOW(S).
2. PROVIDE SHIELD PLATES ON THE FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4" OF MATERIAL BETWEEN DRYER DUCT AND FACE OF FRAMING MEMBER. SHIELD PLATES ARE TO BE OF STEEL AND HAVE A MINIMUM THICKNESS OF 0.062 INCHES AND EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES. (2017 FLMC 504.7)

TAGGED NOTES - THIS SHEET

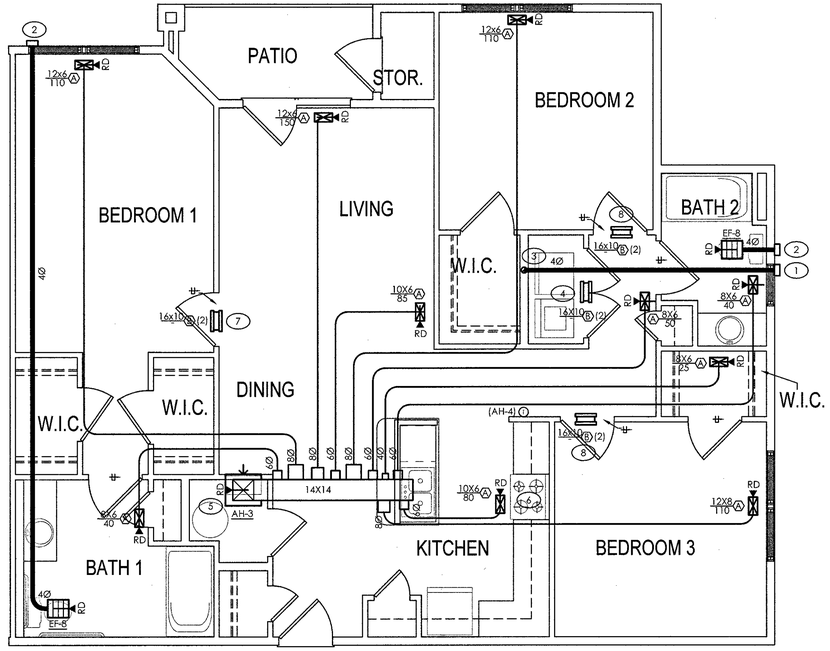
1. DRYER VENT TO WALL CAP W/ BDD (NO SCREEN). CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10' CLEARANCE FROM ALL BUILDING AIR INTAKES.
2. BATHROOM EXHAUST TO WALL CAP W/ BDD AND INSECT SCREEN. CAULK BEHIND AND AROUND CAP WITH 100% SILICONE. MAINTAIN 10' CLEARANCE FROM ALL BUILDING AIR INTAKES.
3. 4Ø DRYER VENT UP WALL. PROVIDE RECESSED DRYER BOX. SEE DETAIL REGARDING FIRE STOPPING OF DRYER VENT DUCTS.
4. PROVIDE TRANSFER GRILLE CENTERED OVER LAUNDRY CLOSET DOOR. GRILLE TO HAVE MINIMUM FREE AREA OF 100 SQIN. TURN BLADES TO FACE UP.
5. AIR HANDLER TO BE INSTALLED ON WALL IN CLOSET. SUPPLY TO DISCHARGE FROM TOP OF UNIT AND TO ABOVE CEILING. PROVIDE AIR HANDLER W/ MFG'S WALL PANEL FOR RETURN AIR AND AIR HANDLER ACCESS. SEE DETAIL.
6. U.L. LISTED RE-CIRCULATING EXHAUST HOOD BY G.C..
7. PROVIDE TRANSFER GRILLE CENTERED OVER BEDROOM DOOR. GRILLE TO HAVE MINIMUM GRILLE AREA OF 135 SQIN. TURN BLADES TO FACE UP. PROVIDE 1" DOOR UNDERCUT.
8. PROVIDE TRANSFER GRILLE CENTERED OVER BEDROOM DOOR. GRILLE TO HAVE MINIMUM GRILLE AREA OF 110 SQIN. TURN BLADES TO FACE UP. PROVIDE 1" DOOR UNDERCUT.

GENERAL NOTES - THIS SHEET

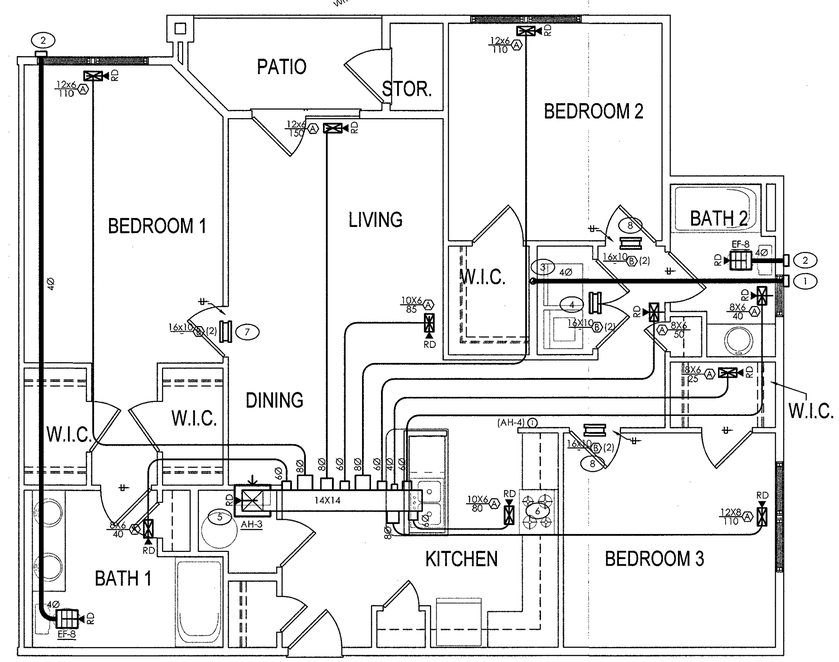
1. DUCTWORK ROUTING TO BE COORDINATED WITH STRUCTURE AND TRUSS SPACING.
2. SEE BLDG PLAN FOR HEAT PUMP LOCATIONS.
3. NO FLEXIBLE DUCTWORK TO BE USED FOR EXHAUST APPLICATIONS. RIGID METAL DUCTWORK ONLY.
4. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
5. M.C. TO COORDINATE DUCT LOCATIONS WITH P.C. AND AREA PLUMBING STACKS AND OVERHEAD WASTE AND VENT PIPING.
6. M.C. TO COORDINATE WITH E.C. AND AREA PANEL FEEDER LOCATIONS.
7. M.C. TO COORDINATE WITH FIRE SPRINKLER CONTRACTOR AND AREA SPRINKLER PIPING.
8. SEE DETAILS REGARDING FIRE STOPPING OF DRYER EXHAUST DUCTS AND BATHROOM EXHAUST DUCTWORK.

REVISION
~~OCT 15 2019~~
RESUBMIT

MECHANICAL PLANS REVIEWED FOR CODE COMPLIANCE
BY: CH DATE: 12/26/19
ALL MECHANICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL CODES. THE REGISTERED CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND OBTAIN A PERMIT. DOES NOT RELIEVE THE



2 MECHANICAL UNIT PLAN - TYPE 3.0 MOBILITY
SCALE: 1/4" = 1'-0"



1 MECHANICAL UNIT PLAN - TYPE 3.0 FAIR HOUSING
SCALE: 1/4" = 1'-0"

1. All drawings are to be coordinated with all site information by owner and contractor, and applicable codes.
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10/9/19

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER / DATE / INITIALS / DESCRIPTION	

PROJECT NO: PLX-1906
DRAWN BY: RMH
CHECKED BY: ZLT
SHEET TITLE: MECHANICAL UNIT PLANS
SHEET NUMBER: M1.33

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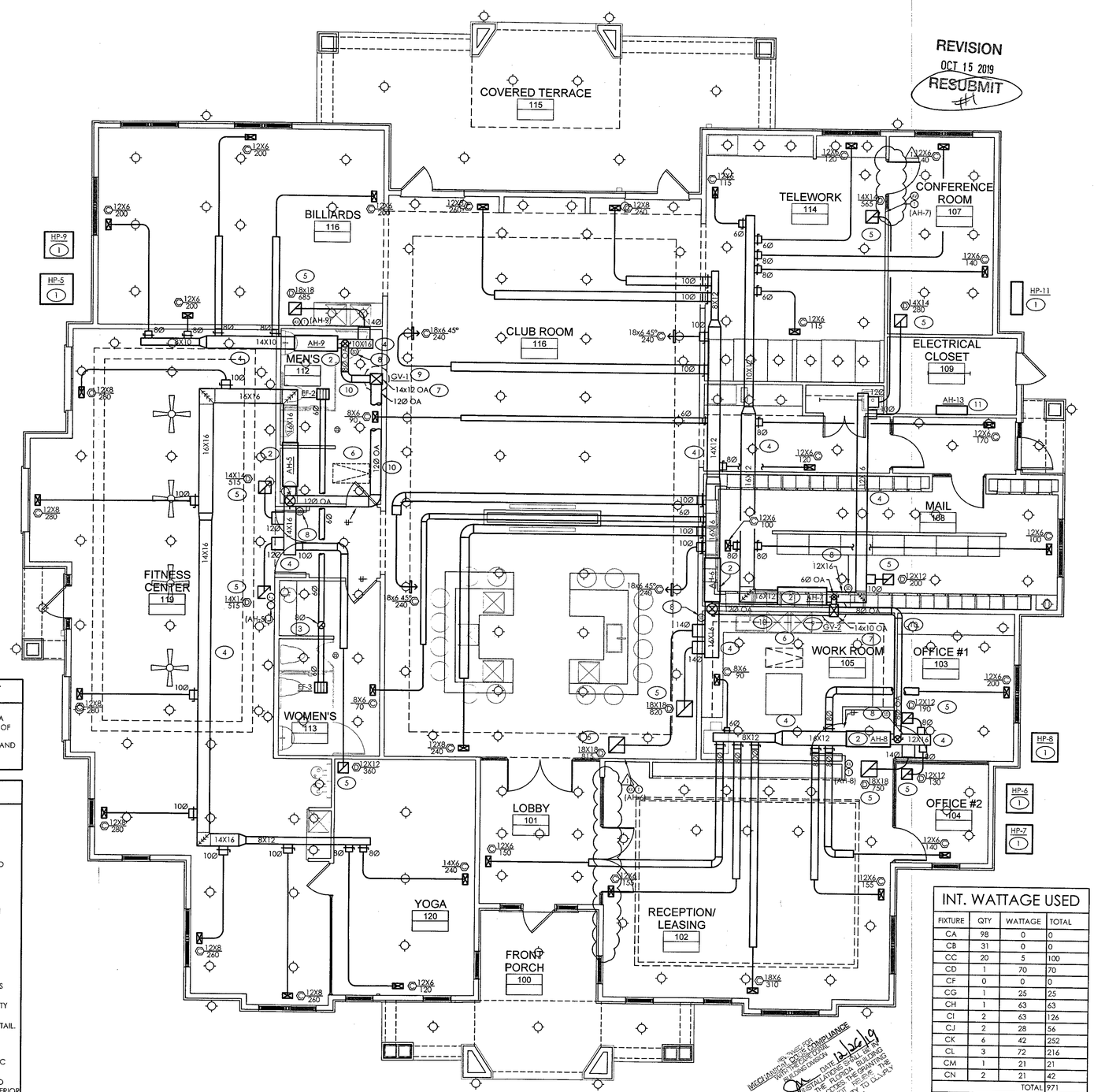

1 MECHANICAL PLAN - CLUBHOUSE

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

GENERAL NOTES - THIS SHEET

1. ENSURE THAT ALL SOURCES OF BUILDING EXHAUST ARE A MINIMUM OF 10' HORIZONTALLY FROM OR A MINIMUM OF 3' ABOVE ANY AREA OUTSIDE AIR INTAKES.
2. DUCT ROUTING TO BE COORDINATED WITH STRUCTURE AND TRUSS SPACING.

TAGGED NOTES - THIS SHEET

1. HEAT PUMP TO BE INSTALLED ON EQUIPMENT PAD. COORDINATE EXACT LOCATION AND PAD W/ G.C.. ENSURE ALL MFG REQUIRED CLEARANCES ARE MAINTAINED.
2. AIR HANDLER INSTALLED IN ATTIC ON MECHANICAL PLATFORM. ENSURE AH IS POSITIONED SO THAT REQ'D MAINTENANCE CLEARANCES ARE MAINTAINED. SEE DETAIL.
3. EXHAUST DUCT UP TO ROOF CAP W/ BDD & INSECT SCREEN. MAINTAIN 10' HORIZONTAL CLEARANCE FROM ALL BUILDING AIR INTAKES. ENSURE CAP IS ON BACK SIDE OF ROOF TO REDUCE VISIBILITY.
4. SUPPLY/RETURN DUCTWORK INSTALLED IN ATTIC SPACE. COORDINATE DUCT ROUTING W/ AREA TRUSSES.
5. LOUVERED RETURN GRILLE MOUNTED INSTALLED IN CEILING. TURN LOUVER BLADES TOWARD WALL.
6. G.C. TO PROVED 30x22 ATTIC ACCESS. ENSURE NO MECHANICAL DUCTWORK OR EQUIPMENT TO CROSS OVER OPENING.
7. OUTSIDE AIR DUCTWORK UP TO LOW PROFILE GRAVITY VENTILATOR ON ROOF.
8. PROVIDE DUCT MOUNTED SMOKE DETECTOR. SEE DETAIL.
9. POSITION EQUIPMENT ON ROOF SO EQUIPMENT IS MINIMIZED FROM VIEW FROM GRADE.
10. OUTSIDE AIR DUCTWORK TO BE ROUTED HIGH IN ATTIC SPACE.
11. WALL HUNG MINI SPLIT AIR HANDLER TO BE INSTALLED HIGH IN SPACE. CONDENSATE TO BE ROUTED TO EXTERIOR GRADE AWAY FROM FOOT TRAFFIC.

INT. WATTAGE USED

FIXTURE	QTY	WATTAGE	TOTAL
CA	98	0	0
CB	31	0	0
CC	20	5	100
CD	1	70	70
CF	0	0	0
CG	1	25	25
CH	1	63	63
CI	2	63	126
CJ	2	28	56
CK	6	42	252
CL	3	72	216
CM	1	21	21
CN	2	21	42
		TOTAL	971

AS-SUBMITTED MECHANICAL CODE COMPLIANCE WITH THE FLORIDA BUILDING CODE

BY: MECHANICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE AND LOCAL LAWS. THE PERMIT OFFICE DOES NOT REVIEW THE DRAWING FOR MEETING THE RESPONSIBILITY TO COMPLY WITH ALL CODES AND OTHER LAWS

10/8/2019

REVISION

OCT 15 2019

RESUBMIT #1

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7/19/19

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19

REVISIONS

NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906

DRAWN BY: RMH

CHECKED BY: ZLT

SHEET TITLE: MECHANICAL CLUBHOUSE

SHEET NUMBER: M2.10

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FIRE RATING LEGEND

1-HR WALL

* POOL EQUIPMENT AND CHEMICAL ROOM CEILING IS 1-HR RATED.

TAGGED NOTES - THIS SHEET

1. SURFACE MOUNTED UNIT HEATER. COORDINATE LOCATION W/ G.C. AND AREA EQUIPMENT.
2. MINI-SPLIT AIR HANDLER TO BE INSTALLED HIGH ON WALL. COORDINATE EXACT INSTALLATION LOCATION W/ G.C. AND EQUIPMENT. CONDENSATE TO BE ROUTED TO GRADE/GRASSY AREA AWAY FROM FOOT TRAFFIC. COORDINATE CONDENSATE ROUTING W/ G.C..
3. EXHAUST DUCT UP TO MFG ROOF CAP W/ INSECT SCREEN AND BDD. ENSURE 10' HORIZONTAL OR 3' VERTICAL CLEARANCE IS MAINTAINED FROM ALL SOURCES OF BUILDING AIR INTAKES. ENSURE EXHAUST CAP IS NOT ON POOL SIDE OF ROOF.
4. DOOR WITH WEATHERPROOF LOUVER AND INSECT SCREEN BY G.C.. LOUVER TO HAVE MINIMUM FREE AREA OF 120 SQIN.
5. DOOR WITH WEATHERPROOF LOUVER AND INSECT SCREEN BY G.C.. EACH LOUVER TO HAVE MINIMUM FREE AREA OF 72 SQIN.
6. HEAT PUMP TO BE INSTALLED AT GRADE. COORDINATE MOUNTING PAD REQUIREMENTS W/ G.C.. ENSURE ALL MFG MAINTENANCE CLEARANCES ARE MAINTAINED.

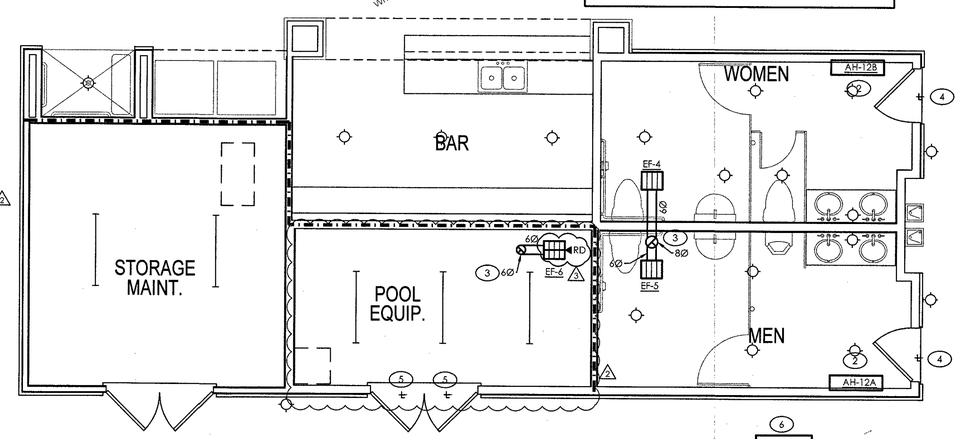
REVISED FOR MECHANICAL DOCS PUMP VENDOR WITH PLUMBING DIVISION. BY: CK DATE: 12/26/19

ALL MECHANICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE STATE AND LOCAL AMENDMENTS. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

VENTILATION CALC'S

PUMP ROOM:

145 SQFT x 9' HIGH CEILING = 1305 CU. FT @ 10 ACH = 218 CFM
*225 CFM PROVIDED



1 MECHANICAL PLAN - POOLHOUSE
SCALE: 1/4" = 1'-0"

DEC 20 2019 RESUBMIT

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FL COA #: 3316

ISSUE DATE: 07.19.19

NUMBER	DATE	INITIALS	DESCRIPTION
1	11.22.19		Cycle 2 Permit Responses
2	12.13.19		Cycle 3 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: RMH
CHECKED BY: ZLT

SHEET TITLE:
MECHANICAL POOLHOUSE PLANS

SHEET NUMBER:
M3.10

12/16/2019 4:03 PM
PLX-1906-M10.DWG

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GENERAL ELECTRICAL NOTES

I. GENERAL REQUIREMENTS:

1. ELECTRICAL CONTRACTOR IS TO FURNISH AND PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
2. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH NEC AND ALL OTHER APPLICABLE CODES. EC IS TO COORDINATE W/ G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.
3. ALL ELECTRICAL & LIGHTING EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS, CONTROLS, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
4. ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER. EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT.
5. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
6. DO NOT SCALE DRAWINGS FOR MEASUREMENT.
7. INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT AND MANUFACTURER'S MODEL #. IF CONFLICT IS PRESENT BETWEEN DESCRIPTION AND MODEL #, EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENT. IN CASE OF CONFLICT BETWEEN THE PLANS AND NOTES/SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
8. BEFORE BID EC IS RESPONSIBLE FOR CLARIFYING W/ G.C. ANY CONFUSION IN REGARDS TO RESPONSIBILITY OF WORK TO BE PERFORMED OR MATERIALS TO BE PROVIDED. THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, AND HAS INCLUDED ON THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK.
9. AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED, THE EC SHALL PROVIDE SUBMITTALS OF EQUIPMENT HE/SHE INTENDS TO PURCHASE FOR REVIEW AND COMMENT BY THE ENGINEER. ENGINEER IS TO APPROVE SUBMITTALS BEFORE EQUIPMENT IS ORDERED.
10. ALL QUESTIONS MUST BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT AND MUST BE ADDRESSED BY THE APPROPRIATE DESIGNER OF RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER.
11. E.C. IS TO REVIEW COMPLETE DRAWING SET. E.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN AND WORK IMPLIED. UNLESS OTHERWISE NOTED FINAL ELECTRICAL CONNECTION TO ALL EQUIPMENT, FURNITURE (I.E. CUBICLES, WORKSTATIONS, ETC) IS THE RESPONSIBILITY OF THE E.C..

II. DIVISION OF WORK:

1. ALL ROOF WORK INCLUDING PENETRATIONS, OPENINGS, FLASHING, CURB INSTALLS, ETC ARE TO BE PERFORMED BY ROOFING CONTRACTOR. E.C. RESPONSIBLE FOR PROVIDING ANY ROOF CURBS, EQUIPMENT RAILS, VENTS, ETC AND COMMUNICATING ALL REQ'S WITH G.C. & ROOFING CONTRACTOR.
2. ALL LOW VOLTAGE WIRING RELATED TO MECHANICAL EQUIPMENT AND SYSTEMS IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR (ANY LOW VOLTAGE FIRE ALARM WIRING TO BE BY E.C.). ALL HIGH VOLTAGE CONNECTIONS TO MECHANICAL EQUIPMENT, TO BE PROVIDED AND INSTALLED BY E.C. (SEE EQUIPMENT SCHEDULE FOR DISCONNECT RESPONSIBILITY).
3. G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS DOORS (WALL, FLOOR, CEILING) RELATED TO ELECTRICAL SYSTEM. E.C. RESPONSIBLE FOR COMMUNICATING TO G.C. SIZE AND LOCATION OF REQ'D ACCESS DOOR(S).
4. ELECTRICAL CONTRACTOR IS TO EMPLOY THE SERVICES OF THE G.C. FOR CUTTING AND PATCHING OF WALLS, FLOORS & CEILINGS RELATED TO THE INSTALLATION OF ELECTRICAL EQUIPMENT & SYSTEMS.
5. G.C. RESPONSIBLE FOR PAINTING OF ANY EXPOSED CONDUIT, WIRE, BOXES ETC. E.C. RESPONSIBLE FOR CLEANING AND PREPARING ITEMS FOR PAINT, COORDINATE W/ G.C.
6. G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS PLATFORMS, GUARD RAILS, LADDERS, CONCRETE PADS. E.C. TO COMMUNICATE REQ'S TO G.C.
7. E.C. TO COORDINATE W/ G.C. PRIOR TO BID REGARDING HIRING OF FIRE ALARM, DATA/TELE & SECURITY SUB-CONTRACTORS (IF APPLICABLE).

III. MATERIALS:

1. ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITER'S LABORATORIES, INC., AND THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
2. PROVIDE HANGERS & SUPPORTS APPROVED FOR USE BY NEC.
3. ALL FIRE SEALANTS TO BE U.L. LISTED AND APPROVED FOR USE W/ APPROPRIATE U.L. PENETRATION DETAIL.
4. ELECTRICAL BOXES IN RATED WALLS MUST BE METAL OR LISTED FOR USE IN RATED WALLS. ONLY SINGLE AND DOUBLE GANG BOXES ARE TO BE USED IN RATED WALLS. LARGER BOXES ARE NOT ALLOWED AS THEY EXCEED THE 16 SQUARE INCH MAXIMUM BOX OPENING ALLOWED IN RATED WALLS PER NEC 300.21.
6. CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 600 VOLTS.MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER MAY BE SOLID OR STRANDED, UNLESS OTHERWISE NOTED. CONDUCTOR INSULATION SHALL BE TYPE THHN UNLESS OTHERWISE NOTED. ALL EXTERIOR CABLE OR OTHER WIRE EXPOSED TO SUNLIGHT SHALL BE RATED FOR EXTERIOR USE & SUNLIGHT RESISTANT.
7. ALL WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT, INTERMEDIATE METAL CONDUIT, OR EMT, EXCEPT AS ALLOWED BELOW. EMT SHALL NOT BE USED IN OR UNDER CONCRETE SLABS, OR IN MASONRY WALLS. USE SCHEDULE 40 PVC OUTDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLAB. PVC NOT TO BE USED IN PATIENT CARE AREAS. MINIMUM CONDUIT SIZE TO BE 1/2". TYPE MC AND AC CABLE MAY BE USED WHERE PERMISSIBLE BY NEC. FLEXIBLE CONDUIT SHALL BE USED FOR CONNECTIONS TO VIBRATING EQUIPMENT AND LUMINAIRES, BUT SHALL NOT EXCEED 6' IN LENGTH. TYPE NM CABLE MAY BE USED IN APPLICATIONS & BUILDING CONSTRUCTION TYPES PERMISSIBLE BY NEC (NEC 334).
8. IN ASSEMBLY OCCUPANCIES OF OVER 100 PEOPLE WIRING MATERIALS AND METHODS SHALL COMPLY WITH NEC SEC 518 AND THE WIRING METHOD/MATERIAL ITSELF SHALL QUALIFY AS AN EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH NEC 250.118 OR SHALL CONTAIN AN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122. NO NM CABLE ALLOWED.

9. METAL CONDUIT COUPLINGS TO BE COMPRESSION TYPE OR THREADED WHEN ACCESSIBLE TO BUILDING OCCUPANTS. METAL COUNDUIT COUPLINGS MAY BE SET-SCREW TYPE WHEN CONCEALED IN BUILDING STRUCTURE OR LOCATED MORE THAN 10' AFF. PLASTIC CONDUIT COUPLINGS TO BE SOCKET GLUED TYPE.
10. FUSES 0 - 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN, UNLESS NOTED OTHERWISE.
11. ALL TERMINALS/LUGS SHALL BE 60/75° RATED. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.
12. RECEPTACLES IN COMMERCIAL AREAS SHALL BE 20 AMP COMMERCIAL SPECIFICATION GRADE EQUAL TO HUBBELL SERIES. GROUND FAULT RECEPTACLES SHALL BE EQUAL TO COOPER VGF SERIES. IN RESIDENTIAL UNITS ALL RECEPTACLES ON 20 AMP CIRCUITS SHALL BE 20 AMP. ALL 15A/20A 120V RECEPTACLES IN RESIDENTIAL UNITS SHALL BE TAMPER PROOF, EQUAL TO COOPER TR SERIES.
13. LIGHTING SWITCHES IN COMMERCIAL AREAS SHALL BE 20 AMP COMMERCIAL SPECIFICATION GRADE EQUAL TO HUBBELL SERIES. LIGHT SWITCHES IN RESIDENTIAL UNITS SHALL BE 15 AMP. CONFIRM SWITCH STYLE WITH OWNER PRIOR TO BID.
14. ALL EXTERIOR FIXTURES AND DEVICES SHALL BE RATED FOR OPERATION AT 0° F AND SHALL BE DAMP OR WET LABELED AS REQUIRED.
15. ANY RECESSED LIGHT FIXTURES INSTALLED IN INSULATED CEILINGS OR WALLS TO BE "IC RATED" AND MEET REQUIREMENTS OF ASTME 283 AND 2017 FLORIDA BUILDING ENERGY CONSERVATION CODE SEC. 502.4.8.
16. ALL EXTERIOR EQUIPMENT, DEVICES, AND MATERIALS SHALL BE RATED FOR USE IN A 160 MPH WIND ZONE.

IV. COORDINATION:

1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICT AND ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE ELECTRICAL WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF OPENINGS, ETC).
2. E.C. TO COORDINATE ELEVATION OF WALL MOUNTED LIGHTS (INTERIOR & EXTERIOR) W/ ARCHITECT/ARCH PLANS.
3. E.C. TO COORDINATE W/ P.C. & M.C. REGARDING POWER AND FIRE ALARM CONNECTIONS TO MECHANICAL AND PLUMBING EQUIPMENT.
4. E.C. TO VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START-UP. NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED.
5. E.C. TO VERIFY DEVICE PLATE COLOR AND MATERIAL WITH ARCHITECT PRIOR TO PURCHASE.

V. EXECUTION:

1. E.C. TO FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING ELECTRICAL EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE MAINTAINED. IF CONFLICT EXISTS BETWEEN THESE PLANS AND MFG INSTRUCTIONS CONTACT ENGINEER.
2. A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
3. PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.
4. PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, WHITE LETTERS ON BLACK BACKGROUND.
5. ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTER-FLASHED IN A WATERPROOF MANNER.
6. SEAL ALL PENETRATIONS OF SMOKE PARTITIONS OR FIRE RATED WALLS, CEILING, FLOORS IN ACCORDANCE W/ APPROPRIATE U.L. PENETRATION DETAIL AND SC BUILDING CODE.
7. PENETRATIONS OF NON-RATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
8. ANY NOTCHING, DRILLING, BORING OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD AND NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE.
9. SUPPORT ALL CONDUIT AND EQUIPMENT IN ACCORDANCE W/ NEC. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK.
10. PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS AND CEILINGS SHALL BE SEALED IN AN AIR TIGHT MANNER AND IN ACCORDANCE W/ 2017 FLORIDA BUILDING ENERGY CONSERVATION CODE C402.5.1.1 & R402.4.2
11. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). UPON COMPLETION OF WORK THE ELECTRICAL CONTRACTOR SHALL CLEAN, WASH, ETC ALL ITEMS AND EQUIPMENT WITHIN HIS SCOPE OF WORK AND LEAVE ALL ITEMS BRIGHT AND CLEAN.
12. UNLESS OTHERWISE INDICATED THE ELECTRICAL CONTRACTOR AT HIS/HER DISCRETION MAY COMBINE MULTIPLE CIRCUITS INTO A SINGLE CONDUIT AND DE-RATE WIRE. COMBINING AND DE-RATING IS TO BE DONE IN STRICT ACCORDANCE W/ NEC.
13. DEVICES INCLUDING GFCI PROTECTION MUST HAVE THEIR TESTING MEANS READILY ACCESSIBLE. PROVIDE REMOTE TESTING MEANS OR GFCI BREAKER FOR GFCI RECEPTACLES AND SIMILAR DEVICES WHICH ARE NOT READILY ACCESSIBLE (I.E. BEHIND EQUIPMENT, AT CEILING, ETC). (NEC 210.8).
14. COORDINATE WITH THE CABLE TV AND TELEPHONE UTILITIES FOR SERVICE ENTRANCE AND CABLING REQUIREMENTS PRIOR TO ANY PURCHASING. INSTALLATION MUST COMPLY WITH THEIR RESPECTIVE REGULATIONS AND REQUIREMENTS.
15. ALL EXIT & EMERGENCY LIGHTS ARE TO BE CIRCUITED TO UN-SWITCHED LEG OF LOCAL NORMALLY ON LIGHTING CIRCUIT.
16. RECEPTACLE, LIGHT SWITCHES AND OTHER CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE W/ ANSI A117.1 AND ADA REQ'S CONCERNING HEIGHT AND ACCESSIBILITY. FHA REQ'S TO BE FOLLOWED FOR MULTI-FAMILY AND RESIDENTIAL PROJECTS.
17. E.C. IS TO CONFIRM EXACT ELECTRICAL NAMEPLATE DATA OF ALL PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, MCA, MOCP, VOLTAGE & PHASE BEFORE BEGINNING WORK.
18. ALL WORK IN/THROUGH REQUIRED FIRE RATED WALLS, BARRIERS, AND PARTITIONS SHALL COMPLY WITH 2017 FLBC/IBC SEC 713. OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. AND 2017 FLBC/IBC SEC 713.
19. BACK-TO-BACK BOXES IN 1 OR 2 HOUR RATED WALLS WITHIN 24" OF EACH OTHER SHALL BE PROTECTED BY (1) OF THE FOLLOWING, OR EQUAL: METACAULK BOX GUARD (METAL BOXES ONLY), METACAULK COVER GUARD, OR METACAULK PUTTY PADS.
20. ALL EXTERIOR EQUIPMENT, DEVICES AND MATERIALS SHALL BE INSTALLED, BRACED TO WITHSTAND A 160 MPH ZONE.
21. E.C. TO UPSIZE ANY BRANCH CIRCUIT RUNS EXCEEDING 65 OR 120 FEET DEPENDING ON LOAD. SEE VOLTAGE DROP SCHEDULE TABLE.
22. BUILDING SYSTEMS TO BE COMMISSIONED IN ACCORDANCE WITH 2017 FL ECC SECTION C408.

VOLTAGE DROP SCHEDULE

RUN DISTANCE (FT)	WIRE SIZE (COPPER AWG)
120V BRANCH CIRCUITS UP TO 8 AMPS (1 KVA)	
1' TO 120'	#12
121' TO 190'	#10
191' TO 300'	#8
301' TO 470'	#6
120V BRANCH CIRCUITS 9 AMPS TO 14 AMPS (1 - 1.7 KVA)	
RUN DISTANCE (FT)	WIRE SIZE (COPPER AWG)
1' TO 65'	#12
66' TO 110'	#10
111' TO 170'	#8
171' TO 270'	#6

NOTE:
WIRE SIZES INDICATED IN GENERAL NOTES AND CONNECTIONS SCHEDULES ARE MINIMUM WIRE SIZES. CONTRACTOR SHALL UPSIZE WIRES BASED ON LOAD AND LENGTH OF RUN AS INDICATED IN SCHEDULE ABOVE.

LIGHTING FIXTURE SCHEDULE

MARK	MANUF.	CATALOG NUMBER	LAMP DATA NO.	LAMP DATA TYPE	VOLTS	BALLAST DATA NO.	BALLAST DATA TYPE	INPUT WATTS	MOUNTING	DESCRIPTION
BL	-	-	-	LED	120	1	DRIVER	15W	SURFACE	EXTERIOR RATED LED CEILING DOME LIGHT. SELECTED BY OTHERS. PROVIDED & INSTALLED BY E.C.. INCLUDE $100/FIXTURE MAT'L ALLOW IN BID. 3000K. 1000 LUMENS.
CA	DMF	DRD2	-	LED	120	-	DRIVER	12	RECESSED	4" ROUND LED DOWNLIGHT. 750 LUMENS. 93+CRI. 2700K. 0-10V DIM TO 10% SMOOTH STYLE. WHITE FINISH. IC RATED. DRDH NEW CONST. HOUSING.
CB	DMF	DRD3	-	LED	120	-	DRIVER	12	RECESSED	4" ROUND LED DOWNLIGHT. 1000 LUMENS. 90+CRI. 2700K. SPOT OPTIC. 0-10V DIM TO 10% SMOOTH STYLE. WHITE FINISH. IC RATED. DRDH NEW HOUSING.
CC	JUNO	MG1LG2	-	LED	120	-	DRIVER	5	RECESSED	2" ROUND LED DOWNLIGHT. 300 LUMENS. 90+CRI. 2700K. NARROW FLOOD DIST. DIMMABLE. WHITE FINISH. IC RATED.
CD	SHADES OF LIGHT	CH19021	5	-	120	-	-	70	SUSPENDED	DECORATIVE CHANDELIER. PROVIDE W/ 100W EQUIV A19 MED BASE LED BULBS. 2700K. DIMMABLE.
CF	MINKA AIRE	F853-BN/MM	-	-	120	-	-	-	SURFACE	60" CEILING FAN. BRUSHED NICKEL FINISH.
CG	CURREY & COMPANY	9000-0227	10	-	120	-	-	25	SUSPENDED	DECORATIVE CHANDELIER. PROVIDE W/ 25W EQUIV GLOBE E12 BASE LED BULBS. 2700K. DIMMABLE. GRAY FINISH.
CH	TROY LIGHTING	SIERRA F6097	9	-	120	-	-	63	SUSPENDED	DECORATIVE CHANDELIER. PROVIDE W/ 60W EQUIV CANDELABRA E12 BASE LED BULBS. 2700K. DIMMABLE. DISTRESSED BRONZE FINISH.
CI	ARTERIORS	JAMES CHANDELIER 86782	9	-	120	-	-	63	SUSPENDED	DECORATIVE CHANDELIER. PROVIDE W/ 60W EQUIV CANDELABRA E12 BASE LED BULBS. 2700K. DIMMABLE. ANTIQUE NICKEL FINISH.
CJ	SHADES OF LIGHT	CRAFTED GLASSWARE CH15131 PN	4	-	120	-	-	28	SUSPENDED	DECORATIVE CHANDELIER. PROVIDE W/ 60W EQUIV CANDELABRA E12 BASE LED BULBS. 2700K. DIMMABLE. POLISHED NICKEL FINISH.
CK	CURREY & COMPANY	WINTER 9000-0299	6	-	120	-	-	42	SUSPENDED	DECORATIVE CHANDELIER. PROVIDE W/ 60W EQUIV CANDELABRA E12 BASE LED BULBS. 2700K. DIMMABLE. GRAY FINISH.
CL	HUDSON VALLEY	TYRELL 8933-PN	16	-	120	-	-	72	SUSPENDED	DECORATIVE CHANDELIER. PROVIDE W/ 40W EQUIV CANDELABRA E12 BASE LED BULBS. 2700K. DIMMABLE. POLISHED NICKEL FINISH.
CM	CIRCA LIGHTING	HALO MEDIUM BBL 5090BSL	3	-	120	-	-	21	SUSPENDED	DECORATIVE CHANDELIER. PROVIDE W/ 60W EQUIV A19 MED BASE LED BULBS. 2700K. DIMMABLE.
CN	REGINA ANDREW	GLASS FLOAT PENDANT 16-1029AM	1	-	120	-	-	21	SUSPENDED	DECORATIVE PENDANT. PROVIDE W/ 60W EQUIV A19 MED BASE LED BULBS. 2700K. DIMMABLE. ANTIQUE MERCURY FINISH.
CO	KICHLER	BOTANICA 5 LIGHT 44260AVI	5	-	120	-	-	35	SUSPENDED	DECORATIVE CHANDELIER. PROVIDE W/ 60W EQUIV CANDELABRA E12 BASE LED BULBS. 2700K. DIMMABLE. ANTIQUE FINISH.
CP	REGINA ANDREW	MOLTEN SPIDER 16-1112PN	5	-	120	-	-	35	SUSPENDED	DECORATIVE CHANDELIER. PROVIDE W/ 60W EQUIV CANDELABRA E12 BASE LED BULBS. 2700K. DIMMABLE. ANTIQUE FINISH.
CQ	CERNO	TERSUS 03-136-W-CM-001-27-P1; CM-024	-	LED	120		DRIVER	13	WALL	DECORATIVE LED SCONCE. 2700K. 90+CRI. 1100 LUMENS. 0-10V DIMMING TO 10%. WOOD FINISH.
CR	LITHONIA	6BP	-	LED	120	1	DRIVER	13	RECESSED	6" ROUND BAFFLE LED DOWNLIGHT. 900 LUMENS. 80 CRI. 3000K COLOR TEMP. FINISH BY ARCH. IC RATED. DAMP LOCATION. W /L7XLED T24 HOUSING.
CS	NUVO	62 1145	-	LED	120	1	DRIVER	10	WALL	DECORATIVE LED SCONCE. 2-LIGHT UP/DOWN. 700 LUMENS. 3000K COLOR TEMP. 90CRI. EXTERIOR RATED. BRONZE FINISH.
CT	FIRE FLEX LEDS	UB AS	-	LED	120	1	DRIVER	5W/FT	SURFACE	LED TAPE LIGHT. 470 LUMENS/FT. 2700K COLOR TEMPERATURE. 80+ CRI. PROVIDE W/ DIMMABLE REMOTE DRIVER. SEE ARCH PLAN FOR RUN LENGTH.
CU	WAC LIGHTING	LED-T24	-	LED	120	1	DRIVER	1W/FT	SURFACE	LED TAPE LIGHT. 135 LUMENS/FT. DAMP LOCATION LISTED. 2700K COLOR TEMPERATURE. PROVIDE WITH REMOTE DIMMING DRIVER.
CV	CERNO	QUAD LARGE LED SCONCE 205427	-	LED	120		DRIVER	16	WALL	DECORATIVE LED SCONCE. 2700K. 90CRI. 700 LUMENS. DIMMABLE. STEEL FINISH.
ED	LITHONIA	WSQ-LED-P4-SR4-30K-MVOLT	1	LED	MVOLT	1	LED DRIVER	61	WALL 20' MOUNT HEIGHT	LED WALL PACK. WET LOC. & COLD TEMP RATED. 5,991 LUMENS. 3000K TEMP. SR4 DISTRIBUTION. FULL CUT-OFF
E2	LITHONIA	VAP	-	LED	120	-	DRIVER	40	WALL	LINEAR LED FIXTURE W/POLY CARB GASKETED LENS. ALUMINUM HOUSING. 6000 LUMENS. 3000K COLOR TEMPERATURE.
GB	-	-	1	LED	120	-	DRIVER	15W MAX	WALL	EXTERIOR RATED LED WALL SCONCE. SELECTED BY OTHERS. PROVIDED & INSTALLED BY E.C.. INCLUDE $125/FIXTURE MAT'L ALLOWANCE IN BID. 3000K.
PA	LITHONIA	6BP	-	LED	120	1	DRIVER	13	RECESSED	6" ROUND BAFFLE LED DOWNLIGHT. 900 LUMENS. 80 CRI. 3000K COLOR TEMP. FINISH BY ARCH. IC RATED. DAMP LOCATION. W /L7XLED T24 HOUSING.
PB	LITHONIA	6BP	-	LED	120	1	DRIVER	13	RECESSED	6" ROUND BAFFLE LED DOWNLIGHT. 900 LUMENS. 80 CRI. 3000K COLOR TEMP. FINISH BY ARCH. IC RATED. WET LOCATION. W /L7XLED T24 HOUSING.
PC	LITHONIA	LBL4	-	LED	MVOLT	1	DRIVER	30	SURFACE	4' SURFACE MOUNTED LED WRAPAROUND LIGHT. WITH ACRYLIC LENS. 3000 LUMENS. 3000K COLOR TEMP.
PD	-	-	1	LED	120	-	DRIVER	15W MAX	WALL	LED WALL SCONCE. SELECTED BY OTHERS. PROVIDED & INSTALLED BY E.C.. INCLUDE $75/FIXTURE MAT'L ALLOWANCE IN BID. 3000K. DAMP LOCATION.
PG	LITHONIA	WSQ-LED-P3-SR4-30K-MVOLT	1	LED	MVOLT	1	LED DRIVER	40	WALL 8.5' MOUNT HEIGHT	LED WALL PACK. WET LOC. & COLD TEMP RATED. 4,486 LUMENS. 3000K TEMP. SR4 DISTRIBUTION. FULL CUT-OFF
PH	KASON	1810LX6000	-	LED	120-277	1	DRIVER	58	SURFACE	4' LED VAPOR PROOF GASKETED SURFACE MOUNT FIXTURE. -40°F AND WET LOCATION RATED.
UA	CRAFTMADE	C201BN/WHT	-	-	120	-	-	100W	SURFACE	CEILING FAN W/ LIGHT KIT. PROVIDE W/ 100W EQUIV A19 MED BASE LED BULB. 3000K.
UB	-	-	-	LED	120	-	DRIVER	15W MAX	SURFACE	6" LED DOWNLIGHT. 3000K COLOR TEMP. 1000 LUMENS. PROVIDED & INSTALLED BY E.C.. INCLUDE $50/FIXTURE MAT'L ALLOWANCE IN BID. 3000K.
UC	SUNSET	F7630-53	3	-	120	-	-	18W	SURFACE	CEILING DOME LIGHT. PROVIDE W/ 100W EQUIV A19 MED BASE LED BULB. 3000K.
UD	MILLENNIUM LIGHTING	1701-SN	1	-	120	-	-	6	SUSPENDED	DECORATIVE PENDANT LIGHT. PROVIDE W/ 100W EQUIV A19 MED BASE LED BULB. 3000K. DIMMABLE.
UF	-	-	3	-	120	-	-	18W	WALL	DECORATIVE VANITY. SELECTED BY OTHERS. PROVIDED & INSTALLED BY E.C.. INCLUDE $75/FIXTURE MAT'L ALLOWANCE IN BID. 3000K.
UH	TOPAZ	SDL6 15 930 D	-	LED	120	-	DRIVER	15W	SURFACE	6" LED DOWNLIGHT. 3000K COLOR TEMP. 900 LUMENS.
UJ	CRAFTMADE	Z190-05	1	-	120	-	-	6W	WALL	EXTERIOR RATED WALL BRACKET LIGHT. PROVIDE W/ 60W EQUIV A19 MED BASE LED BULB. 3000K.
UK	CAMEO	612WH	1	-	120	-	-	6W	SURFACE	CEILING DOME LIGHT. PROVIDE W/ A19 MED BASE LED BULB. 3000K.
UP	MILLENNIUM LIGHTING	793-SN	3	-	120	-	-	18	SUSPENDED	3-LIGHT CHANDELIER. PROVIDE W/ 60W EQUIV A19 MED BASE LED BULBS. 3000K COLOR TEMP. DIMMABLE
Y	LITHONIA	ZL1N	-	LED	MVOLT	1	DRIVER	25	SURFACE	4' LED STRIP. 3000 LUMENS. W/ FROSTED DIFFUSER. 3500K COLOR TEMP. COLD TEMP RATED.
Z	-	-	1	13W LED	120	-	-	13	SURFACE	INCANDESCENT LAMP HOLDER W/ 100 W EQUIVALENT LED A19 BULB. PROVIDE "JELLY JAR" CONFIG. WHERE SUBJECT TO PHYSICAL DAMAGE.

ELECTRICAL SYMBOL LEGEND

- CIRCUIT CONDUCTORS CONCEALED IN FLOOR, WALL OR CEILING.
- ARROWHEAD INDICATES HOMERUN TO PANEL NOTED.
- INDICATES HOT LEG OF CIRCUIT TO BE CARRIED OVER TO NEXT DEVICE. SEE PLANS FOR CONTROL SCHEME.
- JUNCTION BOX CEILING MOUNTED.
- JUNCTION BOX FLOOR MOUNTED.
- JUNCTION BOX WALL MOUNTED AT HEIGHT INDICATED ON DRAWINGS.
- $ — SINGLE POLE SWITCH, 20A, 120/277 VOLT, 48" A.F.F. TO CENTER.
  "3" INDICATES 3-WAY SWITCH.
  "4" INDICATES 4-WAY SWITCH.
  "D" INDICATES DIMMER SWITCH OF TYPE TO SUIT LOAD.
  "M" INDICATES 120V, 20A MOTOR RATED TOGGLE SWITCH.
  "DP" INDICATES DOUBLE POLE
- $S — INDICATES FLUORESCENT FIXTURES DUAL SWITCHED, INBOARD/OUTBOARD SWITCHED SEPARATELY.
- SINGLE RECEPTACLE, 20 AMP, 120 VOLT, 18" A.F.F. TO CENTER.
- DUPLEX RECEPTACLE, 20 AMP (15 AMP RESIDENTIAL, UON), 120 VOLT, 18" A.F.F. TO CENTER.
  "GFI" INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE.
  "WP" INDICATES WEATHERPROOF.
  "EWC" INDICATES RECEPTACLE INSIDE ENCLOSURE OF ELECTRIC WATER COOLER PROVIDE GFI BREAKER FOR CIRCUIT.
  "ASW" INDICATES ABOVE SHOW WINDOW, PER NEC SHOW WINDOW REQ'S.
- QUADRUPLEX RECEPTACLE, AS ABOVE, 18" A.F.F.
- DUPLEX RECEPTACLE, AS ABOVE, SPLIT WIRED, TOP HALF SWITCHED, 18" A.F.F.
- DUPLEX RECEPTACLE, AS ABOVE, MOUNTED 6" ABOVE COUNTER TOP OR 4" ABOVE BACKSPLASH, AS APPROPRIATE, OR AT HEIGHT INDICATED.
- DUPLEX RECEPTACLE, AS ABOVE, MOUNTED 6" ABOVE COUNTER TOP OR 4" ABOVE BACKSPLASH, AS APPROPRIATE, OR AT HEIGHT INDICATED, WITH GFI PROTECTION.
- RECESSED FLUSH FLOOR DUPLEX RECEPTACLE WITH BRASS COVERPLATE. COORDINATE EXACT FINISH WITH ARCHITECT AND OWNER.
- 208V RECEPTACLE, SEE PLANS FOR NEMA CONFIGURATION.
- TELEPHONE/DATA OUTLET, 18" A.F.F. TO CENTER OR ALIGN MOUNTING HEIGHT WITH ADJACENT DEVICE, UNLESS OTHERWISE NOTED. COORDINATE EXACT DEVICE TYPE AND REQUIRED FACEPLATE W/ OWNER/TENANT.
- 30/3/FPN — HEAVY DUTY FUSIBLE/NON-FUSIBLE DISCONNECT SWITCH, NUMBERS INDICATE FRAME SIZE, NUMBER OF POLES AND FUSING. PROVIDE NEMA 1 ENCLOSURE INSIDE. PROVIDE NEMA 3 ENCLOSURE FOR ALL SWITCHES LOCATED OUTSIDE.
  "FPN" INDICATES FUSE PER EQUIPMENT NAMEPLATE
  "NF" INDICATES NON-FUSED.
  "MS" INDICATES MOTOR STARTER OF TYPE TO SUIT LOAD.
- 208Y/120V PANEL, SURFACE OR RECESS MOUNTED, SEE SCHEDULE FOR DETAILS.
- EF — FAN, PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DISCONNECTING MEANS AS REQUIRED.
- RECESSED MOUNTED 2x4 FLUORESCENT TROFFER, SEE FIXTURE SCHEDULE FOR DETAILS.
- TRACK LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
- SURFACE MOUNTED FLUORESCENT STRIP, SEE FIXTURE SCHEDULE FOR DETAILS.
- WALL MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
- SURFACE, RECESSED OR GROUND MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
- ELECTRIC UTILITY METER LOCATION.
- TV — CABLE TV OUTLET, 18" A.F.F. TO CENTER, UNLESS OTHERWISE NOTED.
- SD — STAND ALONE 120 VOLT SMOKE DETECTOR WITH BATTERY BACK-UP AND SILENCE SWITCH. TO BE INTERCONNECTED TO OTHER DETECTORS IN UNIT. DEVICE TO BE INSTALLED PER UL 217.

ELECTRICAL ABBREVIATIONS

18"	DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF DEVICE IS TO BE MOUNTED.
AFF	ABOVE FINISHED FLOOR.
AFG	ABOVE FINISHED GRADE.
E.C.	ELECTRICAL CONTRACTOR.
FPN	FUSE PER EQUIPMENT NAMEPLATE REQUIREMENTS.
G.C.	GENERAL CONTRACTOR.
M.C.	MECHANICAL CONTRACTOR.
P.C.	PLUMBING CONTRACTOR.
WP	INDICATES DEVICE TO HAVE WEATHERPROOF COVER.
UON	UNLESS OTHERWISE NOTED.
FACP	FIRE ALARM CONTROL PANEL.
SMP	SPRINKLER MONITORING PANEL.
NL	NIGHT LIGHT, LIGHT NOT SWITCHED.
WP	WEATHER PROOF

REVISION
OCT 15 2019
RESUBMIT #1

NOTE:
E.C. TO CONFIRM ALL FIXTURE SELECTIONS W/OWNER PRIOR TO PURCHASE.

NOTE:
LIGHTING SCHEDULE CONTINUED ON SHEET E002.

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Zimmer Development Company
CAPE CORAL, FLORIDA
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ISSUE DATE: 07.19.19
REVISIONS: NUMBER | DATE | INITIALS | DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JNS
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SHEET TITLE: ELECTRICAL SCHEDULES & NOTES
SHEET NUMBER: E0.01

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PLX-1906-E001.DWG

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MOTION SENSOR LEGEND

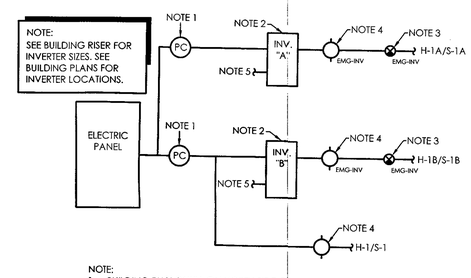
WS	WALL SWITCH DUAL TECH. (INFRARED AND ULTRASONIC) OCCUPANCY SENSOR EQUAL TO SENSOR SWITCH MODEL WSX PDT. 120/277V. TIME DELAYS 15 MINUTES FOR ON/OFF. LINE VOLTAGE.
WVR	CORNER MOUNTED DUAL TECH. (INFRARED AND ULTRASONIC) OCCUPANCY SENSOR EQUAL TO SENSOR SWITCH MODEL WVR PDT 16. 120/277V. TIME DELAYS 20 MINUTES FOR ON/OFF. LINE VOLTAGE.
CMR	CEILING MOUNTED DUAL TECH. (INFRARED AND ULTRASONIC) OCCUPANCY SENSOR EQUAL TO SENSOR SWITCH MODEL CMR PDT 10. 120/277V. TIME DELAYS 20 MINUTES FOR ON/OFF. LINE VOLTAGE.
	NOTE: THE CONTRACTOR IS TO PROVIDE AND INSTALL ALL RELAYS, CONTROLS, SWITCHES, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE OR ABSENCE ON PLANS.

LIGHTING FIXTURE SCHEDULE CONTINUED

MARK	MANUF.	CATALOG NUMBER	LAMP DATA NO.	LAMP DATA TYPE	VOLTS	BALLAST DATA NO.	BALLAST DATA TYPE	INPUT WATTS	MOUNTING	DESCRIPTION
ED	LITHONIA	WSQ-LED-P4-SR4-30K-MVOLT	1	LED	MVOLT	1	LED DRIVER	61	WALL 20' MOUNT HEIGHT	LED WALL PACK. WET LOC. & COLD TEMP RATED. 5,991 LUMENS. 3000K TEMP. SR4 DISTRIBUTION. FULL CUT-OFF
EE	LITHONIA	WSQ-LED-P3-SR4-30K-MVOLT	1	LED	MVOLT	1	LED DRIVER	40	WALL 8.5' MOUNT HEIGHT	LED WALL PACK. WET LOC. & COLD TEMP RATED. 4,486 LUMENS. 3000K TEMP. SR4 DISTRIBUTION. FULL CUT-OFF
	LITHONIA	LQM	1	LED	120, 277	-	-	1.2	CEILING	EXIT LIGHT. AC POWER ONLY. RED ILLUMINATED EXIT SIGN. HOUSING COLOR BY ARCH. DAMP LOCATION LISTED.
	LITHONIA	LHQM LED	2	1.5W	120, 277	-	-	3.0	WALL	LED EXIT-EMERGENCY LIGHT COMBO. (2) ADJ. HEADS. BATTERY BACK-UP. RED ILLUMINATED EXIT SIGN. HOUSING COLOR BY ARCH.
	LITHONIA	LHQM LED	2	1.5W	120, 277	-	-	3.0	CEILING	LED EXIT-EMERGENCY LIGHT COMBO. (2) ADJ. HEADS. BATTERY BACK-UP. RED ILLUMINATED EXIT SIGN. HOUSING COLOR BY ARCH.
	BARRON LIGHTING GROUP	TR-WB-BR-CL	2	6W XENON	120, 277	-	-	-	WALL	REMOTE EXTERIOR EMERGENCY LIGHT. PAINTABLE. BATTERY BACK-UP. W/ TEST SWITCH. WET LOC LISTED. NEC 700.16 COMPLIANT.
	LITHONIA	ELM2 LED	2	1.5 W	120, 277	-	-	1.4	SEE PLAN	GEN. PURPOSE EMERGENCY LED LIGHT. (2) ADJ. HEADS. BATTERY BACK-UP.
EMG-INV	-	-	-	-	120, 277	-	-	MFG	-	FIXTURE TO BE WIRED VIA EMERGENCY LIGHTING INVERTER WITH 90 MINUTE BATTERY BACK-UP. SEE RISER(S) AND DETAIL(S).

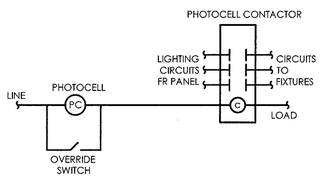
NOTES:
1. UNLESS OTHERWISE NOTED COLOR & FINISH OF FIXTURE HOUSING, BAFFLE, OR SIMILAR EXPOSED ELEMENTS TO BE BY ARCHITECT.
2. EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED TO AN UNSWITCHED LEG OF A NORMALLY ON LOCAL LIGHTING CIRCUIT (UNLESS NOTED OTHERWISE).INCLUDE 90 MINUTE BATTERY BACKUP & TESTING MEANS UNLESS OTHERWISE NOTED.
3. FIXTURES WIRED VIA EMERGENCY LIGHTING INVERTER WHERE "EMG-INV" IS SHOWN.
4. ALL LAMPS OF A SINGLE FIXTURE TYPE INSTALLED IN EACH AREA/ROOM/SPACE ARE TO BE OF SAME TEMPERATURE/COLOR.

NOTE:
SEE E5.01 FOR SITE LIGHTING.



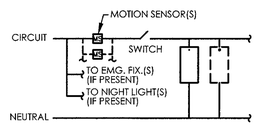
NOTE:
1. BUILDING PHOTOCELL ON NORTH SIDE OF BUILDING. (2) EMERGENCY CIRCUITS MAY NOT SHARE SINGLE PHOTOCELL.
2. PORTION OF CIRCUIT TO BE WIRED VIA SWITCHED EMERGENCY LIGHTING INVERTER. SEE PLAN FOR SIZE AND LOCATION OF INVERTER. CIRCUIT DESIGNATION INDICATED ON BUILDING PLANS.
3. EXIT SIGNS.
4. LIGHT FIXTURES.
5. "H-1" OR "S-1" HOT LEG TO INVERTER FOR MONITORING.

9 EMERGENCY LIGHTING INVERTER
NO SCALE



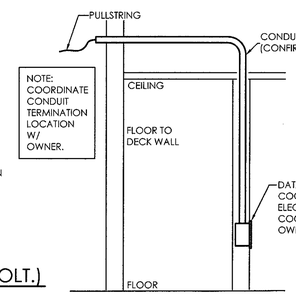
NOTE:
1. E.C. TO COORDINATE # OF CIRCUITS CONTROLLED AND NATURE OF LOADS W/ CONTACTOR MFG.
2. OVERRIDE SWITCH TO BE LOCATED AT LIGHTING CONTACTOR & CLEARLY LABELED.
3. LOCATE CONTACTOR AT PANEL SERVED. CLEARLY LABEL.
4. PHOTOCELL TO BE LOCATED ON NORTH SIDE OF BUILDING. LABEL CONTACTOR W/ PHOTOCELL LOCATION.

8 LIGHTING CONTACTOR PHOTOCELL
NO SCALE



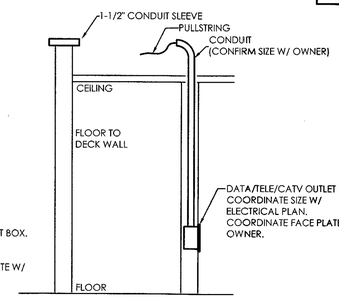
NOTE:
1. SEE PLAN FOR QTY. OF SENSORS. MULTIPLE SENSORS IN AREA TO BE WIRED IN PARALLEL.COORDINATE RELAY/CONTACTOR REQ'S W/ MFG.
2. WIRING SIMILAR FOR BI-LEVEL (INBOARD/OUTBOARD) & 3-WAY/4-WAY SWITCHING.
3. CEILING MOUNTED DEVICES ARE TO BE INSTALLED AT LEAST 6'-0" FROM DIFFUSERS, GRILLES, FANS, AND OTHER SIMILAR SOURCES OF VIBRATION.

7 MOTION SENSOR WIRING (LINE VOLT.)
NO SCALE



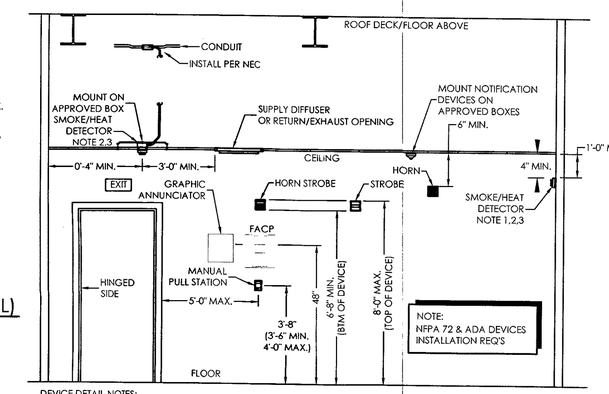
NOTE:
COORDINATE CONDUIT TERMINATION LOCATION W/ OWNER.

6 DATA/TELE/CATV OUTLET (HARD CEIL)
NO SCALE



NOTE:
FOR INTERIOR WALLS WITHOUT INSULATION. E.C. MAY OMIT CONDUIT & OUTLET BOX. PROVIDE PULL STRING & PLASTER RING.

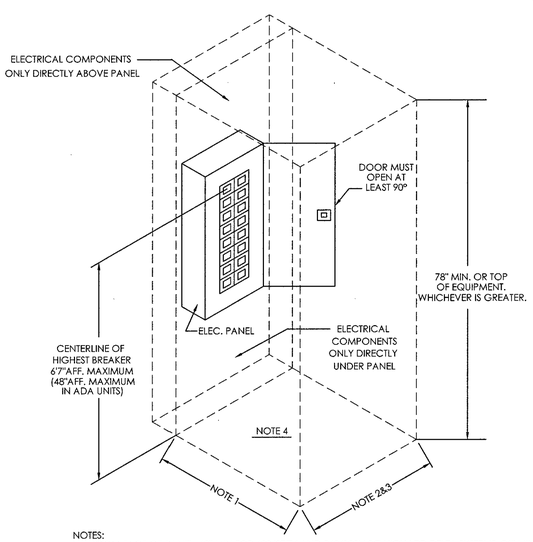
5 DATA/TELE/CATV OUTLET (LAY-IN CEIL)
NO SCALE



NOTE:
NFPA 72 & ADA DEVICES INSTALLATION REQ'S

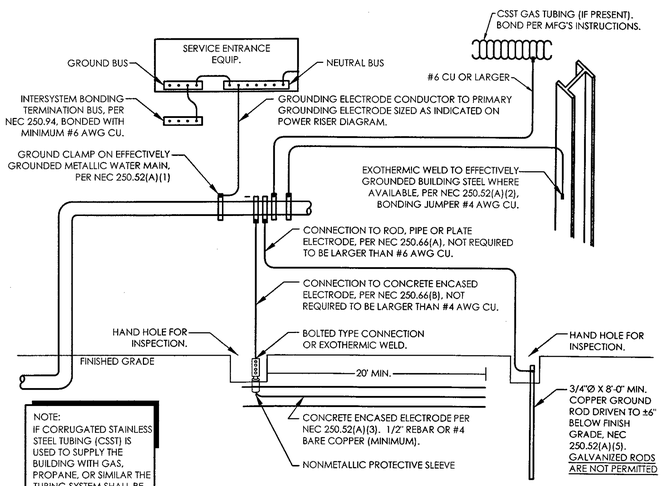
DEVICE DETAIL NOTES:
1. PLACE SMOKE/HEAT DETECTOR AT HIGHEST POINT IN VAULTED CEILINGS.
2. PLACE SMOKE/HEAT DETECTOR NO LESS THAN 3FT FROM BATHROOM/SHOWER ROOM DOORS (2017 FLBC 907.2.11.4)
3. PLACE PHOTOELECTRIC SMOKE/HEAT ALARMS NO LESS THAN 6FT FROM PERMANENTLY INSTALLED COOKING APPLIANCES (2017 FLBC 907.2.11.3.3). PLACE IONIZATION SMOKE/HEAT DETECTORS WITH AN ALARM-SILENCING SWITCH NO LESS THAN 10FT FROM A PERMANENTLY INSTALLED COOKING APPLIANCE (2017 FLBC 907.2.11.3.2). PLACE IONIZATION SMOKE/HEAT DETECTORS WITHOUT AN ALARM-SILENCING SWITCH NO LESS THAN 20FT FROM A PERMANENTLY INSTALLED COOKING APPLIANCE (2017 FLBC 907.2.11.3.1).

4 FIRE ALARM AND SIMILAR DEVICE LOCATIONS
NO SCALE



NOTES:
1. FROM FACE OF PANEL: 42" MIN FOR 480/277V AND 240/120V 3Ø HIGH LEG DELTA SYSTEMS. 36" MIN FOR 208/120V AND 240/120V SYSTEMS.
2. THE WIDTH OF THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT SHALL BE THE WIDTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER.
3. WORKING SPACE DOES NOT HAVE TO BE CENTERED ON PANEL BUT MUST EXTEND TO/PAST EACH EDGE OF PANEL.
4. OTHER AREA PANELS MAY SHARE CLEARANCE SPACE.

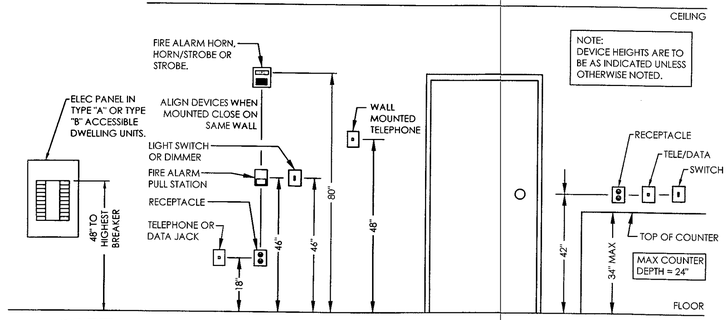
3 ELECTRICAL PANEL MOUNTING DETAIL
NO SCALE



NOTE:
IF CORRUGATED STAINLESS STEEL TUBING (CSST) IS USED TO SUPPLY THE BUILDING WITH GAS, PROPANE, OR SIMILAR THE TUBING SYSTEM SHALL BE BONDED TO THE BUILDING GROUNDING SYSTEM AT THE POINT WHICH THE PIPING ENTERS THE BUILDING. USE #6 COPPER OR LARGER.

NOTE:
GROUNDING ELECTRODES SHALL BE PROVIDED IN ACCORDANCE WITH NEC SECTION 250. ALL GROUNDING ELECTRODE CONDUCTORS SIZED AS INDICATED ON POWER RISER DIAGRAM. ALL METHODS OF CREATING THE GROUNDING SYSTEM MAY NOT BE REQUIRED OR AVAILABLE.

2 GROUNDING DETAIL
NO SCALE



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NOTE:
MOUNTING LOCATIONS OF RECEPTACLES, SWITCHES AND ALL OTHER CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ANSI A117.1 AND ADA REQUIREMENTS (FHA REQ'S FOR MULTI-FAMILY AND RESIDENTIAL PROJECTS)

1 TYPICAL DEVICE MOUNTING HEIGHTS
NO SCALE

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19	DESCRIPTION
REVISIONS NUMBER	DATE	INITIALS

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL DETAILS
SHEET NUMBER: E0.02

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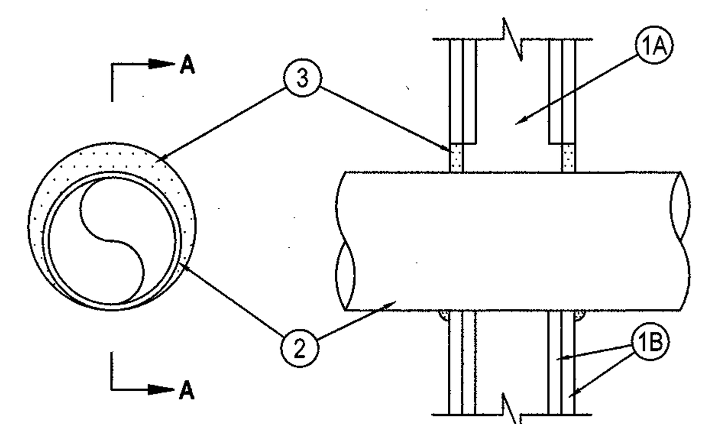
System No. W-L-1054

WL 1054

c UL us
Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
   The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.
2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI
Hilti Firestop Systems

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October 14, 2015

4 METALLIC PIPE (GYPSUM WALL) DETAIL
NO SCALE

NOTE:
TELE/DATA RISER MOVED
TO SHEET E0.04.

LIGHTING SYSTEMS: CLUBHOUSE
FECC SECTION C405 & C406

LIGHTING POWER DENSITY CALCULATION COMPLIANCE
INTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.4.2. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.

INTERIOR WATTAGE SPECIFIED VS. ALLOWED 2266 VS. 5572

EXTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.5.1. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.

TRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED 330 VS. 600
NONTRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED NA VS. NA

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE LIGHTING SYSTEMS REQUIREMENTS OF THE FLORIDA ENERGY CONSERVATION CODE, SECTION C405 & C406 AND ANY LOCAL AMENDMENTS THEREOF.

SIGNED: [signature]
NAME: ZACK L. TOMLIN, PE
TITLE: ELECTRICAL ENGINEER

ADDITIONAL PRESCRIPTIVE COMPLIANCE

NOT APPLICABLE (RENOVATION PROJECT)	___	C406.5 ON-SITE RENEWABLE ENERGY	___
C406.2 MORE EFFICIENT MECHANICAL EQUIPMENT	___	C406.6 DEDICATED OUTDOOR AIR SYSTEM	___
C406.3 REDUCED LIGHTING POWER DENSITY	X	C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING	___
C406.4 ENHANCED DIGITAL LIGHTING CONTROLS	___		

LIGHTING SYSTEMS: APARTMENT BUILDINGS
FECC SECTION C405 & C406

LIGHTING POWER DENSITY CALCULATION COMPLIANCE
INTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.4.2. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.

INTERIOR WATTAGE SPECIFIED VS. ALLOWED 325 VS. 448

EXTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.5.1. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.

TRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED 1128 VS. 3227
NONTRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED NA VS. NA

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE LIGHTING SYSTEMS REQUIREMENTS OF THE FLORIDA ENERGY CONSERVATION CODE, SECTION C405 & C406 AND ANY LOCAL AMENDMENTS THEREOF.

SIGNED: [signature]
NAME: ZACK L. TOMLIN, PE
TITLE: ELECTRICAL ENGINEER

ADDITIONAL PRESCRIPTIVE COMPLIANCE

NOT APPLICABLE (RENOVATION PROJECT)	___	C406.5 ON-SITE RENEWABLE ENERGY	___
C406.2 MORE EFFICIENT MECHANICAL EQUIPMENT	___	C406.6 DEDICATED OUTDOOR AIR SYSTEM	___
C406.3 REDUCED LIGHTING POWER DENSITY	X	C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING	___
C406.4 ENHANCED DIGITAL LIGHTING CONTROLS	___		

BUILDING SYSTEMS COMMISSIONING

I. GENERAL REQUIREMENTS:
1. BUILDING SYSTEMS TO BE COMMISSIONED IN ACCORDANCE WITH 2017 FL ECC SECTION C408.
2. DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA ARE TO BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

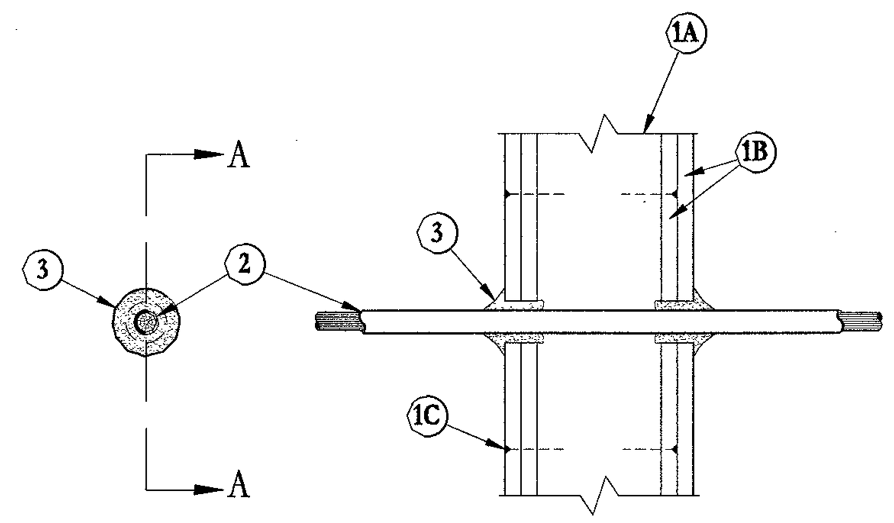
II. COMMISSIONING SCOPE:
1. THE FOLLOWING MARKED SYSTEMS WILL BE COMMISSIONED IN THIS PROJECT:

SYSTEM	EQUIPMENT
ELECTRICAL	OCCUPANCY SENSOR CONTROLS
	TIME-SWITCH CONTROLS
	DAYLIGHT RESPONSIVE CONTROLS

III. COMMISSIONING PROCEDURE:
1. OCCUPANCY SENSORS:
   1.1. CERTIFY THAT THE SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS
   1.2. FOR EACH SENSOR TO BE TESTED, VERIFY THE FOLLOWING:
      1.2.1. STATUS INDICATOR (AS APPLICABLE) OPERATES CORRECTLY.
      1.2.2. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
   FOR AUTO-ON OCCUPANCY SENSORS, THE LIGHTS DO TURN ON TO THE PERMITTED LEVEL WHEN SOMEONE ENTERS THE SPACE.
2. AUTOMATIC TIME SWITCHES:
   2.1. CONFIRM THAT THE AUTOMATIC TIME SWITCH CONTROL IS PROGRAMMED WITH APPROPRIATE WEEKDAY, WEEKEND, AND HOLIDAY (AS APPLICABLE) SCHEDULES.
   2.2. DOCUMENT FOR THE AGENCY AUTOMATIC TIME SWITCH PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES AS WELL AS ALL SET-UP AND PREFERENCE PROGRAM SETTINGS.
   2.3. VERIFY THE CORRECT TIME AND DATE IS PROPERLY SET IN THE TIME SWITCH.
   2.4. VERIFY THAT ANY BATTERY BACK-UP (AS APPLICABLE) IS INSTALLED AND ENERGIZED.
   2.5. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NO MORE THAN 2 HOURS.
   2.6. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
      2.6.1. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
      2.6.2. VERIFY THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
   2.7. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
      2.7.1. ALL NON-EXEMPT LIGHTING TURNS OFF.
      2.7.2. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUT OFF OCCURS.
3. DAYLIGHT CONTROLS:
   3.1. ALL CONTROL DEVICES (PHOTOCONTROLS) HAVE BEEN PROPERLY LOCATED, FIELD-CALIBRATED AND SET FOR APPROPRIATE SET POINTS AND THRESHOLD LIGHT LEVELS.
   3.2. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO APPROPRIATE LIGHT LEVELS IN RESPONSE TO AVAILABLE DAYLIGHT. THE LOCATION WHERE CALIBRATION ADJUSTMENTS ARE MADE IS READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

System No. W-L-3001
September 07, 2004
(Formerly System No. 149)
F Ratings -1 and 2 Hr (See Item 1)
T Ratings -3/4, 1, 1-1/2 and 2 Hr (See Item 2)
L Rating At Ambient -15 CFM/sq ft (See Item 3)
L Rating At 400 F -less than 1 CFM/sq ft (See Item 3)

Through Penetrations | Cables | 3000 Series | Gypsum | WL



SECTION A-A

1. Wall Assembly – The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in OC.
   B. GypsumBoard* – Nom 1/2 or 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers and sheet orientation shall be as specified in the individual Wall or Partition Design. Diam of circular through opening to be 3/8 in. to 5/8 in. larger than outside diam of cable or cable bundle.
   C. Fasteners – When wood stud framing is employed gypsum wallboard layers attached to studs with cement coated nails as specified in the individual Wall or Partition Design. When steel channel stud framing is employed, gypsum wallboard attached to studs with Type S self-drilling, self-tapping bugle-head steel screws as specified in the individual Wall or Partition Design.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Cables – Individual cable or max 1 in. diam cable bundle installed in through opening with an annular space of min 0 in. (point contact) to max 3/4 in. Cable to be rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:
   A. Max 150 pair No. 24 AWG copper conductor telephone cable with polyvinyl chloride (PVC) insulation and jacket materials. When max 25 pair telephone cable is used, T Rating is 2 hr. When 50 to 150 pair telephone cable is used in 1 hr fire rated wall T Rating is 3/4 hr. When 50 to 150 pair telephone cable is used in 2 hr fire rated wall, T Rating is 1 hr.
   B. Max No. 10 AWG multiple copper conductor Type NM ("Romex") non metallic sheathed cable with PVC insulation and jacket materials.When Type NM cable is used, max T Rating is 1-1/2 hr.
   C. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 5/8 in. When fiber optic cable is used, max T Rating is 2 hr.
   D. Max 12 AWG multi conductor (max seven conductors) power/control cable with cross-linked polyethylene (XLPE) insulation and XLPE or PVC jacket materials. When multi conductor power/control cable is used, max T Rating is 2 hr.
   E. Max four conductor with ground No. 2 AWG (or smaller) aluminum SER cables with polyvinyl chloride insulation and jacket materials.
3. Fill, Void or Cavity Materials* –Caulk, Sealant or Putty – Caulk or putty fill material installed to completely fill annular space between cable and gypsum wallboard on both sides of wall and with a min 1/4 in. diam bead of caulk or putty applied to perimeter of cable(s) at its egress from each side of the wall.
   3M COMPANY – MP+ Stix putty, CP 25WB+ caulk, FB-3000 WT sealant or Cable Wrap putty
   (Note: L Ratings apply only when CP 25WB+ caulk or FB-3000 WT is used.)

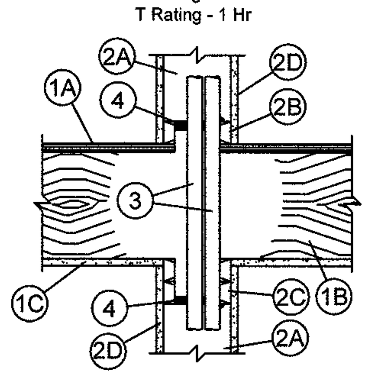
*Bearing the UL Classification Mark

This material was extracted and drawn by 3M Fire Protection Products from the 2007 edition of the UL Fire Resistance Directory.

3M Fire Protection Products
www.3m.com/firestop
W-L-3001 1 of 1
Product Support Line 800-328-1687
Choose option for FAX ON DEMAND
379

3 NON METALLIC CABLE (GYPSUM WALL) DETAIL
NO SCALE

System No. F-C-2319
F Rating - 1 Hr
T Rating - 1 Hr



1. **Floor-Ceiling Assembly -** The 1 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Designs in the UL Fire Resistance Directory, as summarized below:
   A. **Flooring System -** Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Diam of floor opening to be min 1/2 in. (13 mm) to max 1 in. (25 mm) larger than outside diameter of individual or grouped penetrants. Max diam of opening is 3 in. (76 mm).
   B. **Wood Joists -** Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.
   C. **Gypsum Board* -** Thickness, type, number of layers and fasteners as required in the individual Floor-Ceiling Design.
2. **Chase Wall** - The through penetrant (Item 3) shall be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. (13 mm) greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs -** Nom 2 by 4 in.(51 by 102 mm), 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
   B. **Sole Plate -** Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm)or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening in sole plate to be min 1/2 in. (13 mm) to max 1 in. (25 mm) larger than outside diameter of individual or grouped penetrants. Max diam of opening is 3 in. (76 mm).
   C. **Top Plate -** The double top plate shall consist of two nom 2 by 4 in. (51 by 102 mm), two nom 2 by 6 in. (51 by 152 mm)or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening in top plate to be min 1/2 in. (13 mm) to max 1 in. (25 mm) larger than outside diameter of individual or grouped penetrants. Max diam of opening is 3 in. (76 mm).
   D. **Gypsum Board* -** Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.
3. **Through Penetrants -** One or more nonmetallic pipes, conduits or tubing to be installed either concentrically or eccentrically within the opening. Min space between pipes, conduits or tubes to be 0 in. Annular space between the pipes, conduits or tubing and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 1 in. (25 mm). Penetrants to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipe, conduits or tubing may be used:
   A. **Cross Linked Polyethylene (PEX) Tubing -** Nom 1 in. (25 mm) diam (or smaller) SDR9 PEX tubing for use in closed (process or supply) piping systems.
   B. **Electrical Nonmetallic Tubing (ENT)+ -** Nom 2 in. (51 mm) diam (or smaller) PVC tubing installed in accordance with Article 331 of the National Electrical Code (NFPA 70).
4. **Fill, Void or Cavity Material* - Sealant -** Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with the top surface of the floor or chase wall sole plate. Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with bottom surface of chase wall top plate. Min 3/8 in. (10 mm) diam bead of fill material applied at point contact location on the top surface of floor or sole plate and at the penetrant/chase wall top plate interface.
   SPECIFIED TECHNOLOGIES INC - Type WF300 Caulk

*Bearing the UL Classification Mark

STI
Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876
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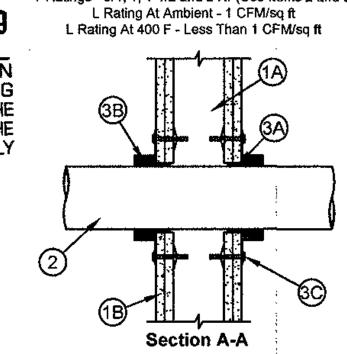
Created or Revised: XXXXXXXXXXX
(800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com
XXXXXXXXX

2 FLOOR/CIELING DETAIL
NO SCALE

REVIEWED FOR
ELECTRICIAL CODE COMPLIANCE
WITH THE CAPE CORAL
BUILDING DIVISION
DEC 0 5 2019
BY ______ DATE ______
ALL ELECTRICIAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE, LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

System No. W-L-2059
F Ratings - 1 and 2 Hr (See Items 2 and 3)
T Ratings - 3/4, 1, 1-1/2 and 2 Hr (See Items 2 and 3)
L Rating At Ambient - 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft

REVISION
OCT 15 2019
RESUBMIT
#1



Section A-A

1. Wall Assembly - The 1 or 2 h fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 and V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* - 5/8 in. (16 mm) thick, 4 ft (1219 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in. (127 mm).
2. Through-Penetrants - One nonmetallic pipe or conduit to be centered within the firestop system. The annular space shall be max 1/4 in. (6 mm). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
   A. Polyvinyl Chloride (PVC) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 or 80 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. When Schedule 80 PVC pipe is used, the F and T Ratings are 1 hr. When Scheduled 80 PVC pipe is used in closed (process or supply) piping systems, the F and T Ratings are equal to the assembly rating of the wall in which it is installed.
   B. Rigid Nonmetallic Conduit+ - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 or 80 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70). When Schedule 80 PVC conduit is used, the F and T Ratings are 1 hr.
   C. Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
   D. Acrylonitrile Butadiene Styrene (ABS) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or foamed core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   E. Fire Retardant Polypropylene (FRPP) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   F. Polyvinylidene Fluoride (PVDF) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   G. Fiberglass Reinforced Pipe (FRP) Pipe - Nom 4 in. (102 mm) diam (or smaller) glass fiber reinforced thermosetting resin pipe for use in closed (process or control) or vented (drain, waste or vent) piping systems. When FRP pipe is used, T Rating is 3/4 hr.
   H. High Density Polyethylene (HDPE) Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 HDPE pipe for use in closed (process or supply) piping systems.
3. Firestop System - The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* - Sealant - Fill material forced into annular space to max extent possible. Caulk shall be installed flush with both surfaces of wall assembly.
   SPECIFIED TECHNOLOGIES INC - SpecSeal 100, 101, 102, 105, 120 or 129 Sealant, SpecSeal LCI Sealant, Pensil 300 Sealant or SpecSeal Series SIL300 Sealant
   B. Fill, Void or Cavity Material - Wrap Strip - Nom 1/8 or 3/16 in. (3.2 or 4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips or nom 1/4 in. (6 mm) thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. (38 mm) wide strips. The layers of wrap strips are individually wrapped around the through-penetrant with ends butted and held in place with masking tape. Butted ends in successive layers shall be aligned.

Fire Rating of Wall Hr	Max Diam of Throught Penetrant in. (mm)	No. of Wrap Strip Layers	F Rating Hr	T Rating Hr
1	1-1/2 (38)	1	1	1
2	1-1/2 (38)	1	2	1-1/2
1	2 (51)	1	1	1
2	2 (51)	1	2	1-1/2
1	3 (76)	2	1	1
2	3 (76)	2	2	2
1	4 (102)	3	1	1
2	4 (102)	3	2	2

   Except as noted in Item 2, the F and T Rating of the firestop system is dependent upon the fire rating of wall, diam of through penetrant and the number of wrap strips as tabulated below:
   SPECIFIED TECHNOLOGIES INC - SpecSeal BLU Wrap Strip, SpecSeal BLU2 Wrap Strip or SpecSeal RED Wrap Strip
   C. Steel Collar - Collar fabricated from coils of precut 0.016 in. (0.4 mm) thick (30 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be min 1-1/2 in. (38 mm) deep with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs for securement to the concrete floor or wall. Retainer tabs, 3/4 in. (19 mm) wide tapering down to 1/4 in. (6 mm) wide and located opposite the anchor tabs, are folded 90 degree toward pipe surface to maintain the annular space around the pipe and to retain the wrap strips. Steel collar wrapped around wrap strips and pipe with a 1 in. (25 mm) wide overlap along its perimeter joint and secured together by means of a min 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel hose clamp installed at mid-depth of the steel collar. As an alternate to the steel hose clamp, the steel collar may be secured together by means of three No. 8 by 1/4 in. (6 mm) long steel sheet metal screws when more than one layer of wrap strip is used.
   Wrap strip/collar assembly is slid along the through-penetrant until abuts the surface of the wall. Collar secured to wall by 1/8 in. (3.2 mm) diam by 1-3/4 in. (44 mm) long steel molly bolts in conjunction with 1-1/4 in. (32 mm) diam steel fender washers. The number of molly bolts used is dependent upon the nom diam of the through penetrant. Two molly bolts, symmetrically located, are required for nom 1-1/2 in. (38 mm) and 2 in. (51 mm) diam through penetrants. Three molly bolts, symmetrically located, are required for nom 2-1/2 in. (64 mm) and 3 in. (76 mm) diam through penetrants. Four molly bolts, symmetrically located, are required for nom 3-1/2 in. (89 mm) and 4 in. (102 mm) diam through penetrants. Steel collars are installed on each side of wall.
   D. Firestop Device* - (Optional, Not Shown) - As an alternate to Item 3B and 3C, galv steel collar lined with an intumescent material sized to fit the specific diam of the through-penetrant. Device shall be installed around through-penetrant in accordance with accompanying installation instructions. Device incorporates anchor tabs for securement to each surface of wall assembly by means of 1/8 in. (3 mm) diam by 1-3/4 in. (45 mm) long steel molly bolts in conjunction with 1/4 in. (6 mm) diam by 1-1/2 in. (38 mm) diam steel fender washers.
   SPECIFIED TECHNOLOGIES INC - SpecSeal Firestop Collar, SpecSeal LCC Collar or SpecSeal SSC Collar . When SpecSeal LCC Collar or SpecSeal SSC Collar are used, the max annular space shall be 1/8 in. (3 mm) for max 2-1/2 in. (64 mm) diam pipe and shall be max 1/4 in. (6 mm) for pipe larger than 2-1/2 in. (64 mm) diam.

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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W-L-2059

1 NON-METALLIC PIPE (GYPSUM WALL) DETAIL
NO SCALE

Planworx
ARCHITECTURE, P.A.
5711 Six Forks Road, Suite 100
Raleigh, NC 27609
office (919) 846-8100
website www.planworx.com

ZACK L. TOMLIN LICENSE No.79002 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/9/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

MAPLE
ENGINEERING, PLLC
FL COA #: 3316
708 ST. MARYS ST
RALEIGH, NC 27605 LIC.#: P-0990
P:919-341-4247 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL DETAILS
SHEET NUMBER: E0.03

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10/8/2019 6:34 PM
PLX-1906-E003.DWG

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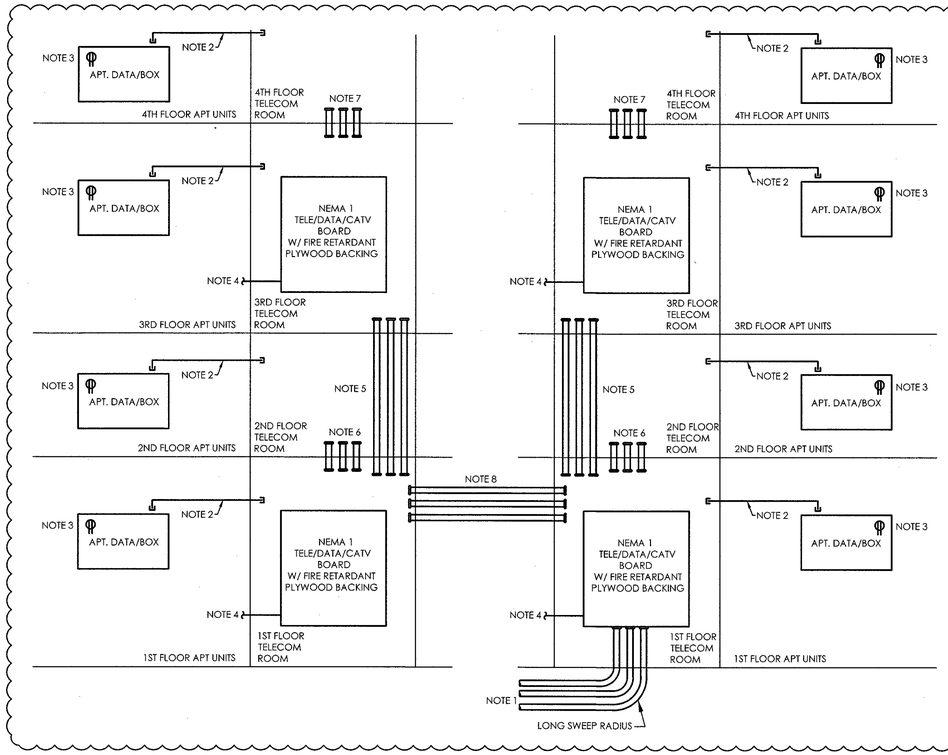


REVIEWED FOR ELECTRICIAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
BY _____ DATE DEC 05 2019
ALL ELECTRICIAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE, LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT BELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ALL WORK WITH ALL CODES AND ORDINANCES.

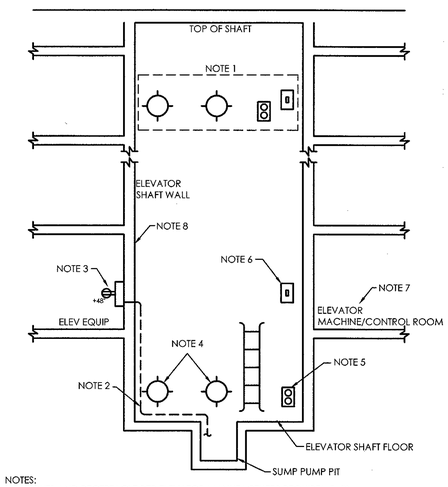
REVISION
OCT 15 2019
RESUBMIT
#1

5 TELE/DATA/CATV RISER (TYP.)

NO SCALE

TELE/DATA/CATV RISER NOTES:

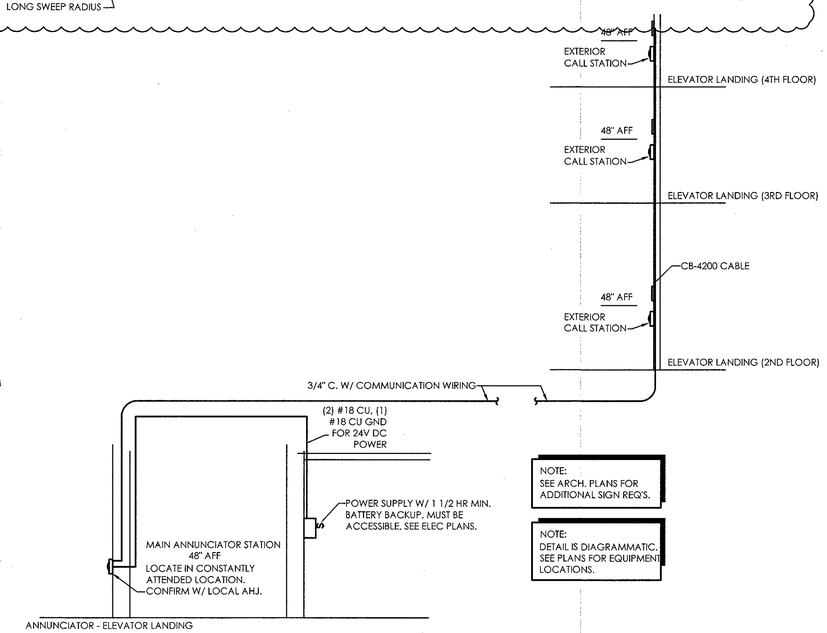
1. PROVIDE THREE 4" CONDUITS PROVIDED UNDER SLAB/GROUND TO PROPERTY LINE W/ PULL STRING. CLEARLY LABEL AND COORDINATE EXACT TERMINATION LOCATION AND DETAILS WITH OWNER AND TELEPHONE UTILITY.
2. PROVIDE 1" CONDUIT W/ PULL STRING TO ALL APT UNITS. CLEARLY LABEL. SEE PLANS FOR LOCATIONS.
3. PROVIDE 120V RECEPTACLE FOR TELEPHONE AND OTHER COMMUNICATION EQUIPMENT (SEE POWER PLANS).
4. PROVIDE #6 CU GROUNDING/BONDING CONDUCTOR IN ¾" CONDUIT TO INTERSYSTEM BONDING TERMINATION (IBT) AT BUILDING ELECTRICAL SERVICE. BOND CONDUIT/CONDUCTOR AT EACH END OF CONDUIT IF METAL RACEWAY IS USED. INSTALL PER NEC 250.94 & NEC 800.100. CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.
5. PROVIDE THREE 4" CONDUITS W/ PULL STRING BETWEEN FIRST AND THIRD FLOOR TELECOM ROOMS.
6. PROVIDE THREE 4" CONDUITS BETWEEN FIRST AND SECOND FLOOR TELECOM ROOMS.
7. PROVIDE THREE 4" CONDUITS BETWEEN THIRD AND FOURTH FLOOR TELECOM ROOMS.
8. PROVIDE THREE 4" CONDUITS BETWEEN FIRST FLOOR TELECOM ROOMS.



NOTES:
1. LIGHTS AND RECEPTACLE PER ELEVATOR MANUFACTUERS REQUIREMENTS.
2. CONTROL AND POWER FROM SUMP PUMP TO CONTROL PANEL PROVIDED AND INSTALLED BY P.C..
3. E.C. TO PROVIDE POWER FOR SUMP PUMP CONTROL PANEL (SEE PLANS). CONTROL PANEL FURNISHED BY P.C.. COORDINATE EXACT LOCATION WITH P.C..
4. PROVIDE (2) LIGHTS 18" ABOVE PIT FLOOR/. SEE PLAN FOR LOCATION. PIT LIGHTS AND RECEPTACLE TO NOT SHARE THE SAME CIRCUIT.
5. PROVIDE (1) GFCI WEATHER-PROOF RECEPTACLE 18" ABOVE PIT FLOOR. SEE PLAN FOR LOCATION. (NEC 620.24, NEC 620.85). PIT LIGHTS AND RECEPTACLE TO NOT SHARE THE SAME CIRCUIT.
6. PROVIDE WEATHER-PROOF LIGHT SWITCH ADJACENT TO ELEVATOR PIT LADDER. COORDINATE LOCATION WITH ELEVATOR MANUFACTURE'S SUBMITTAL (NEC 620.24).
7. BRANCH CIRCUITS, WIRING, AND DEVICES FOR MACHINE ROOMS OR CONTROL ROOMS TO FOLLOW NEC 620.23, NEC 620.37, AND NEC 620.85.
8. RATED SHAFT WALLS. SEE ARCHITECT PLANS.

2 ELEVATOR SHAFT DETAIL

NO SCALE



NOTE:
SEE ARCH. PLANS FOR ADDITIONAL SIGN REQ'S.

NOTE:
DETAIL IS DIAGRAMMATIC. SEE PLANS FOR EQUIPMENT LOCATIONS.

NOTES:
1. EXTERIOR CALL STATION EQUAL TO ALPHA COMMUNICATIONS 4202 WEATHERPROOF MODEL.
2. ANNUNCIATOR PANEL EQUAL TO ALPHA COMMUNICATIONS 4200 SERIES WEATHERPROOF MODEL.
3. FURNISH W/ POWER SUPPLY, COMMUNICATION CABLES, REQUIRED SIGNAGE AND ALL OTHER COMPONENTS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. COORDINATE PROGRAMMING WITH LOCAL AHJ AND OWNER.

1 TWO-WAY ELEVATOR COMMUNICATION

NO SCALE

1. All drawings are to be coordinated with all site information by owner and contractor, and applicable codes.
2. Contractor is to notify architect immediately of conditions or items varying from depicted information.
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10/7/19

SURFSIDE CORNER
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PERMIT SET

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E0.04

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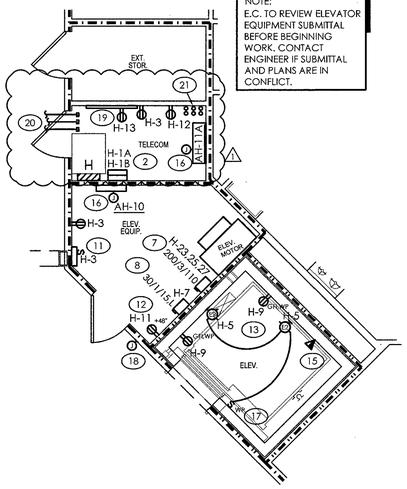
FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.

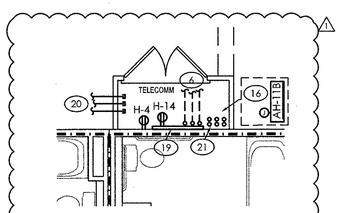
REVIEWED FOR ELECTRICAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
BY ____ DATE DEC 05 2019
ALL ELECTRICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE, LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

REVISION
OCT 15 2019
RESUBMIT #1

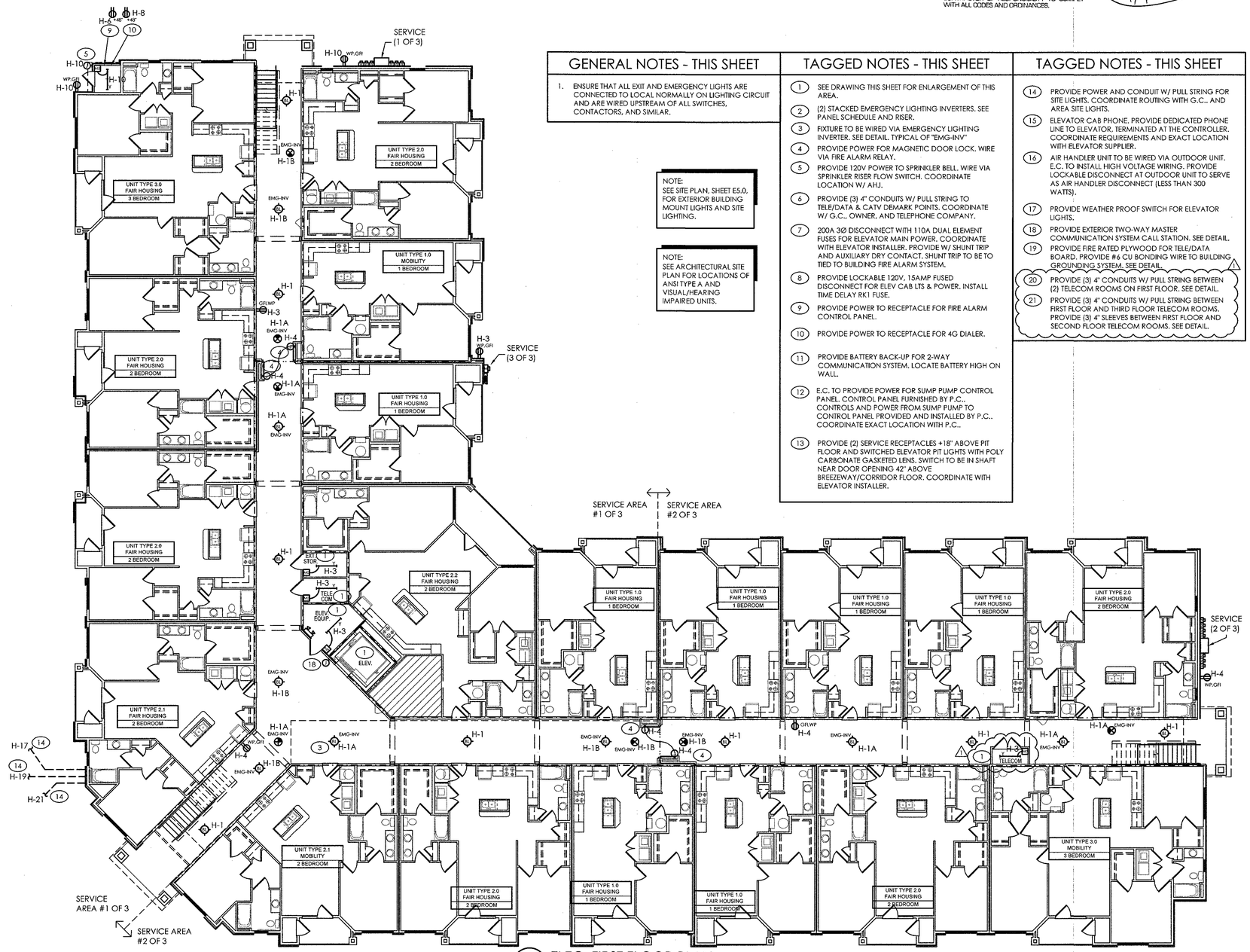
NOTE:
E.C. TO REVIEW ELEVATOR EQUIPMENT SUBMITTAL BEFORE BEGINNING WORK. CONTACT ENGINEER IF SUBMITTAL AND PLANS ARE IN CONFLICT.



2 ELEVATOR CONTROL RM DETAIL
SCALE: 1/4" = 1'-0"



3 TELECOM RM DETAIL
SCALE: 1/4" = 1'-0"



1 ELEC. FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

GENERAL NOTES - THIS SHEET

1. ENSURE THAT ALL EXIT AND EMERGENCY LIGHTS ARE CONNECTED TO LOCAL NORMALLY ON LIGHTING CIRCUIT AND ARE WIRED UPSTREAM OF ALL SWITCHES, CONTACTORS, AND SIMILAR.

NOTE:
SEE SITE PLAN, SHEET E5.0, FOR EXTERIOR BUILDING MOUNT LIGHTS AND SITE LIGHTING.

NOTE:
SEE ARCHITECTURAL SITE PLAN FOR LOCATIONS OF ANSI TYPE A AND VISUAL/HEARING IMPAIRED UNITS.

TAGGED NOTES - THIS SHEET

1. SEE DRAWING THIS SHEET FOR ENLARGEMENT OF THIS AREA.
2. (2) STACKED EMERGENCY LIGHTING INVERTERS. SEE PANEL SCHEDULE AND RISER.
3. FIXTURE TO BE WIRED VIA EMERGENCY LIGHTING INVERTER. SEE DETAIL. TYPICAL OF "EMG-INV"
4. PROVIDE POWER FOR MAGNETIC DOOR LOCK. WIRE VIA FIRE ALARM RELAY.
5. PROVIDE 120V POWER TO SPRINKLER BELL. WIRE VIA SPRINKLER RISER FLOW SWITCH. COORDINATE LOCATION W/ AHJ.
6. PROVIDE (3) 4" CONDUITS W/ PULL STRING TO TELE/DATA & CATV DEMARK POINTS. COORDINATE W/ G.C., OWNER, AND TELEPHONE COMPANY.
7. 200A 3Ø DISCONNECT WITH 110A DUAL ELEMENT FUSES FOR ELEVATOR MAIN POWER. COORDINATE WITH ELEVATOR INSTALLER. PROVIDE W/ SHUNT TRIP AND AUXILIARY DRY CONTACT. SHUNT TRIP TO BE TO TIED TO BUILDING FIRE ALARM SYSTEM.
8. PROVIDE LOCKABLE 120V, 15AMP FUSED DISCONNECT FOR ELEV CAB LTS & POWER. INSTALL TIME DELAY RK1 FUSE.
9. PROVIDE POWER TO RECEPTACLE FOR FIRE ALARM CONTROL PANEL.
10. PROVIDE POWER TO RECEPTACLE FOR 4G DIALER.
11. PROVIDE BATTERY BACK-UP FOR 2-WAY COMMUNICATION SYSTEM. LOCATE BATTERY HIGH ON WALL.
12. E.C. TO PROVIDE POWER FOR SUMP PUMP CONTROL PANEL. CONTROL PANEL FURNISHED BY P.C.. CONTROLS AND POWER FROM SUMP PUMP TO CONTROL PANEL PROVIDED AND INSTALLED BY P.C.. COORDINATE EXACT LOCATION WITH P.C..
13. PROVIDE (2) SERVICE RECEPTACLES +18" ABOVE PIT FLOOR AND SWITCHED ELEVATOR PIT LIGHTS WITH POLY CARBONATE GASKETED LENS. SWITCH TO BE IN SHAFT NEAR DOOR OPENING 42" ABOVE BREEZEWAY/CORRIDOR FLOOR. COORDINATE WITH ELEVATOR INSTALLER.

TAGGED NOTES - THIS SHEET

14. PROVIDE POWER AND CONDUIT W/ PULL STRING FOR SITE LIGHTS. COORDINATE ROUTING WITH G.C.. AND AREA SITE LIGHTS.
15. ELEVATOR CAB PHONE. PROVIDE DEDICATED PHONE LINE TO ELEVATOR. TERMINATED AT THE CONTROLLER. COORDINATE REQUIREMENTS AND EXACT LOCATION WITH ELEVATOR SUPPLIER.
16. AIR HANDLER UNIT TO BE WIRED VIA OUTDOOR UNIT. E.C. TO INSTALL HIGH VOLTAGE WIRING. PROVIDE LOCKABLE DISCONNECT AT OUTDOOR UNIT TO SERVE AS AIR HANDLER DISCONNECT (LESS THAN 300 WATTS).
17. PROVIDE WEATHER PROOF SWITCH FOR ELEVATOR LIGHTS.
18. PROVIDE EXTERIOR TWO-WAY MASTER COMMUNICATION SYSTEM CALL STATION. SEE DETAIL.
19. PROVIDE FIRE RATED PLYWOOD FOR TELE/DATA BOARD. PROVIDE #6 CU BONDING WIRE TO BUILDING GROUNDING SYSTEM. SEE DETAIL.
20. PROVIDE (3) 4" CONDUITS W/ PULL STRING BETWEEN (2) TELECOM ROOMS ON FIRST FLOOR. SEE DETAIL.
21. PROVIDE (3) 4" CONDUITS W/ PULL STRING BETWEEN FIRST FLOOR AND THIRD FLOOR TELECOM ROOMS. PROVIDE (3) 4" SLEEVES BETWEEN FIRST FLOOR AND SECOND FLOOR TELECOM ROOMS. SEE DETAIL.

Subject to conformance to all Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: CK

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19	DESCRIPTION
REVISIONS		
NUMBER	DATE	INITIALS
1	10.04.19	Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL FIRST FLOOR PLAN
SHEET NUMBER: E1.10

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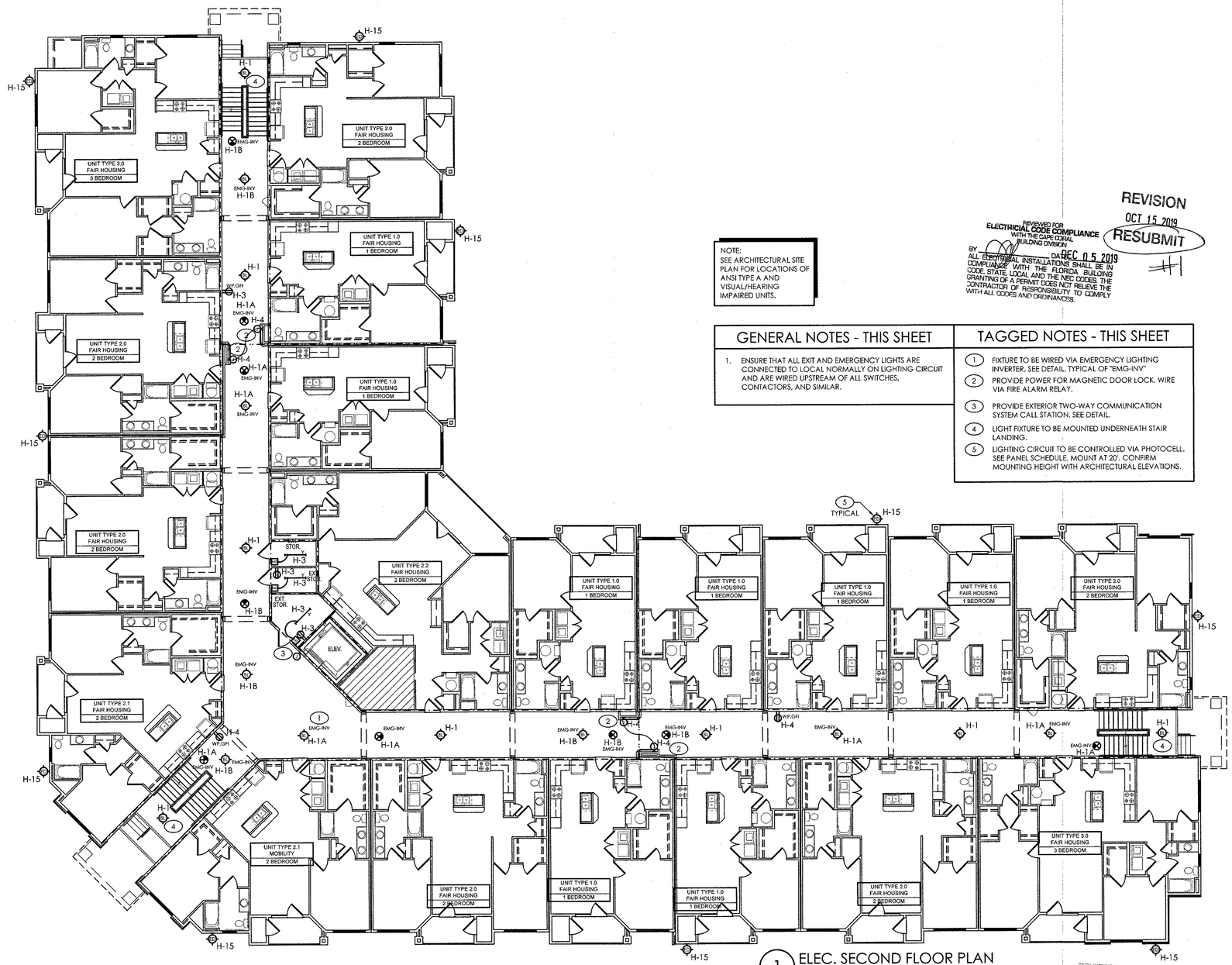
FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.



1 ELEC. SECOND FLOOR PLAN
SCALE: 3/32" = 1'-0"

NOTE:
SEE ARCHITECTURAL SITE PLAN FOR LOCATIONS OF ANSI TYPE A AND VISUAL/HEARING IMPAIRED UNITS.

REVISION
OCT 15 2019
RESUBMIT
#1

REVIEWED FOR ELECTRICAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
BY ____ DATE DEC 05 2019
ALL ELECTRICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE, LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

GENERAL NOTES - THIS SHEET

1. ENSURE THAT ALL EXIT AND EMERGENCY LIGHTS ARE CONNECTED TO LOCAL NORMALLY ON LIGHTING CIRCUIT AND ARE WIRED UPSTREAM OF ALL SWITCHES, CONTACTORS, AND SIMILAR.

TAGGED NOTES - THIS SHEET

1. FIXTURE TO BE WIRED VIA EMERGENCY LIGHTING INVERTER. SEE DETAIL. TYPICAL OF "EMG-INV"
2. PROVIDE POWER FOR MAGNETIC DOOR LOCK. WIRE VIA FIRE ALARM RELAY.
3. PROVIDE EXTERIOR TWO-WAY COMMUNICATION SYSTEM CALL STATION. SEE DETAIL.
4. LIGHT FIXTURE TO BE MOUNTED UNDERNEATH STAIR LANDING.
5. LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. SEE PANEL SCHEDULE. MOUNT AT 20'. CONFIRM MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.

REVIEWED
Subject to conformance to all Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: ____

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10/4/19

SURFSIDE CORNER
Zimmer Development Company
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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19	DESCRIPTION

REVISIONS		
NUMBER	DATE	INITIALS

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL SECOND FLOOR PLAN
SHEET NUMBER: E1.11

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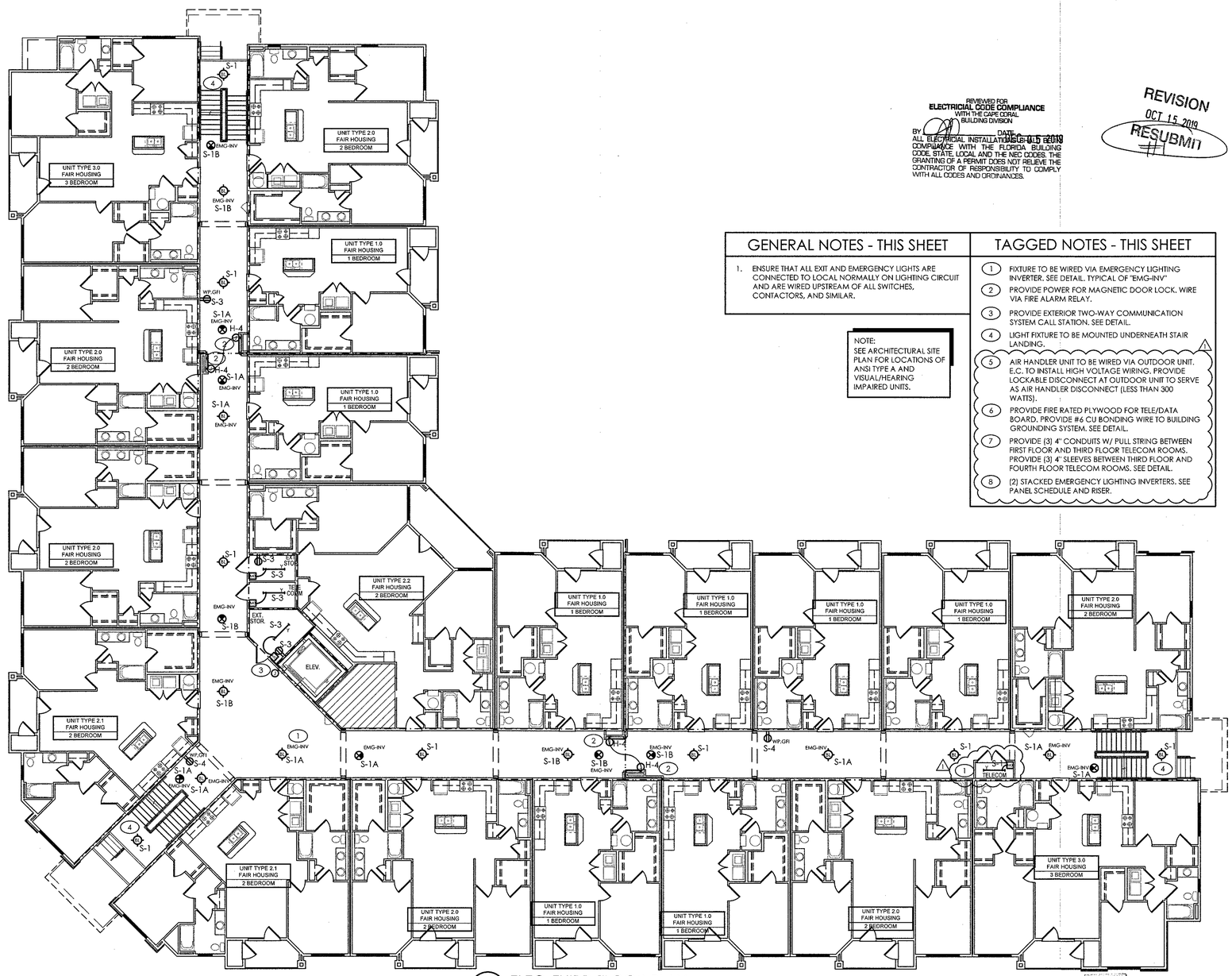
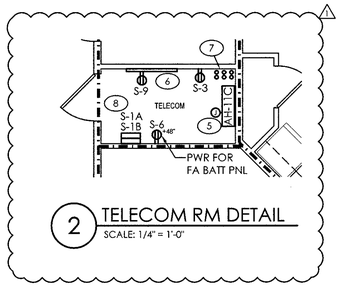
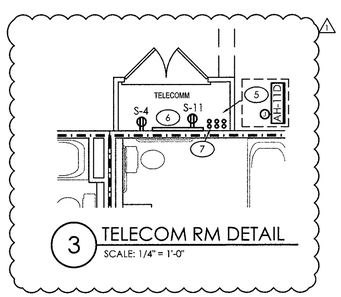
FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.



1 ELEC. THIRD FLOOR PLAN
SCALE: 3/32" = 1'-0"



2 TELECOM RM DETAIL
SCALE: 1/4" = 1'-0"



3 TELECOM RM DETAIL
SCALE: 1/4" = 1'-0"

REVISED FOR
ELECTRICIAL CODE COMPLIANCE
WITH THE CAPE CORAL
BUILDING DIVISION
BY: DATE: AUG 15 2019
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REVISION
OCT 15 2019
RESUBMIT
#1

GENERAL NOTES - THIS SHEET

1. ENSURE THAT ALL EXIT AND EMERGENCY LIGHTS ARE CONNECTED TO LOCAL NORMALLY ON LIGHTING CIRCUIT AND ARE WIRED UPSTREAM OF ALL SWITCHES, CONTACTORS, AND SIMILAR.

NOTE:
SEE ARCHITECTURAL SITE PLAN FOR LOCATIONS OF ANSI TYPE A AND VISUAL/HEARING IMPAIRED UNITS.

TAGGED NOTES - THIS SHEET

1. FIXTURE TO BE WIRED VIA EMERGENCY LIGHTING INVERTER. SEE DETAIL. TYPICAL OF "EMG-INV"
2. PROVIDE POWER FOR MAGNETIC DOOR LOCK. WIRE VIA FIRE ALARM RELAY.
3. PROVIDE EXTERIOR TWO-WAY COMMUNICATION SYSTEM CALL STATION. SEE DETAIL.
4. LIGHT FIXTURE TO BE MOUNTED UNDERNEATH STAIR LANDING.
5. AIR HANDLER UNIT TO BE WIRED VIA OUTDOOR UNIT. E.C. TO INSTALL HIGH VOLTAGE WIRING. PROVIDE LOCKABLE DISCONNECT AT OUTDOOR UNIT TO SERVE AS AIR HANDLER DISCONNECT (LESS THAN 300 WATTS).
6. PROVIDE FIRE RATED PLYWOOD FOR TELE/DATA BOARD. PROVIDE #6 CU BONDING WIRE TO BUILDING GROUNDING SYSTEM. SEE DETAIL.
7. PROVIDE (3) 4" CONDUITS W/ PULL STRING BETWEEN FIRST FLOOR AND THIRD FLOOR TELECOM ROOMS. PROVIDE (3) 4" SLEEVES BETWEEN THIRD FLOOR AND FOURTH FLOOR TELECOM ROOMS. SEE DETAIL.
8. (2) STACKED EMERGENCY LIGHTING INVERTERS. SEE PANEL SCHEDULE AND RISER.

REVIEWED
Subject to conformance to all
Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: OK

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10/9/19

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LIC.#: P-0990
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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19	
REVISIONS		
NUMBER	DATE	DESCRIPTION
	10.04.19	Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT

SHEET TITLE:
ELECTRICAL THIRD FLOOR PLAN

SHEET NUMBER:
E1.12

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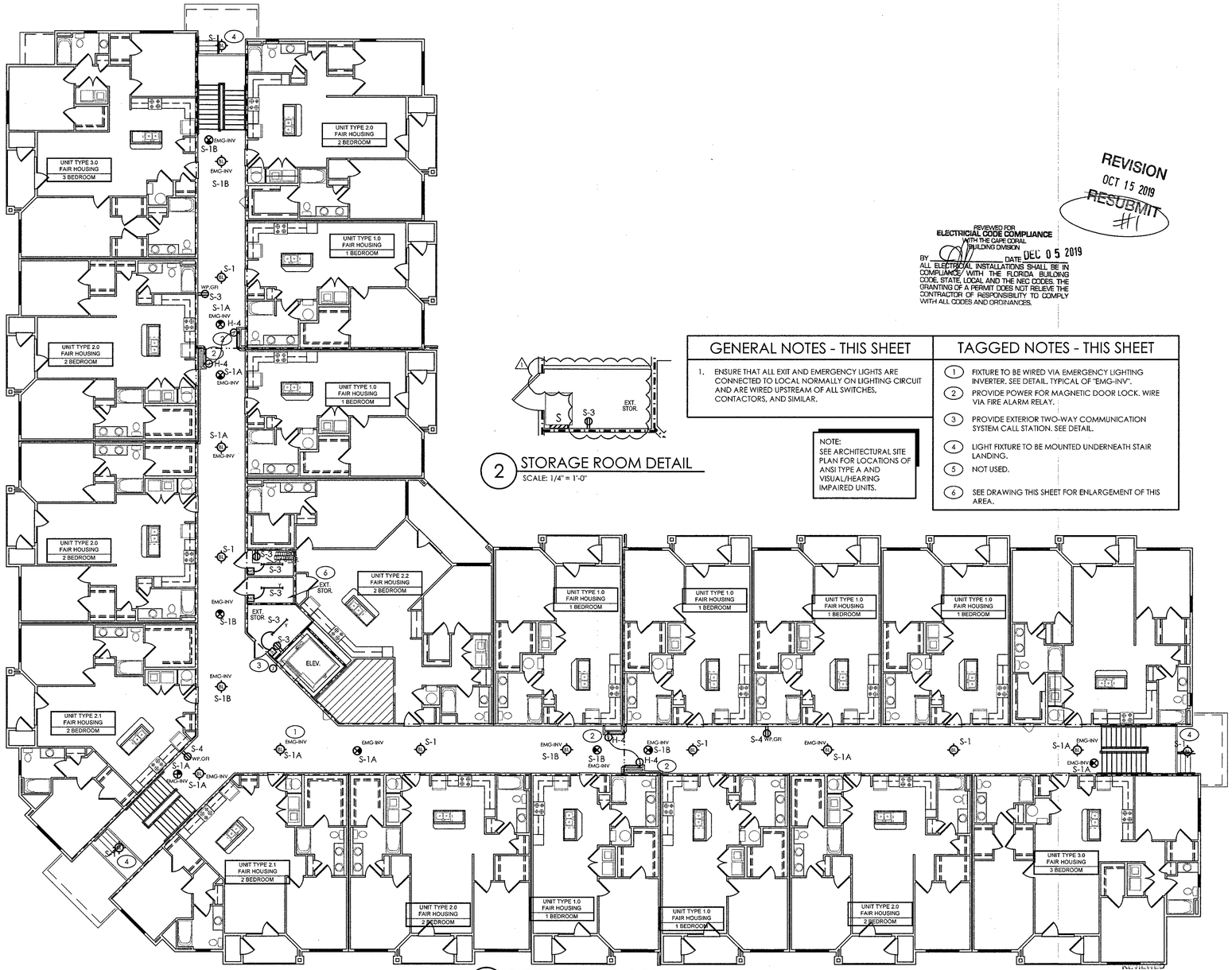
FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.



1 ELEC. FOURTH FLOOR PLAN
SCALE: 3/32" = 1'-0"

2 STORAGE ROOM DETAIL
SCALE: 1/4" = 1'-0"

GENERAL NOTES - THIS SHEET	TAGGED NOTES - THIS SHEET
1. ENSURE THAT ALL EXIT AND EMERGENCY LIGHTS ARE CONNECTED TO LOCAL NORMALLY ON LIGHTING CIRCUIT AND ARE WIRED UPSTREAM OF ALL SWITCHES, CONTACTORS, AND SIMILAR.	1. FIXTURE TO BE WIRED VIA EMERGENCY LIGHTING INVERTER. SEE DETAIL. TYPICAL OF "EMG-INV". 2. PROVIDE POWER FOR MAGNETIC DOOR LOCK. WIRE VIA FIRE ALARM RELAY. 3. PROVIDE EXTERIOR TWO-WAY COMMUNICATION SYSTEM CALL STATION. SEE DETAIL. 4. LIGHT FIXTURE TO BE MOUNTED UNDERNEATH STAIR LANDING. 5. NOT USED. 6. SEE DRAWING THIS SHEET FOR ENLARGEMENT OF THIS AREA.

NOTE:
SEE ARCHITECTURAL SITE PLAN FOR LOCATIONS OF ANSI TYPE A AND VISUAL/HEARING IMPAIRED UNITS.

REVISION
OCT 15 2019
RESUBMIT #1

REVIEWED FOR
ELECTRICIAL CODE COMPLIANCE
WITH THE CAPE CORAL
BUILDING DIVISION
BY _____ DATE DEC 05 2019
ALL ELECTRICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE, LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

REVIEWED
Subject to conformance to all
Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: CC

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10/9/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

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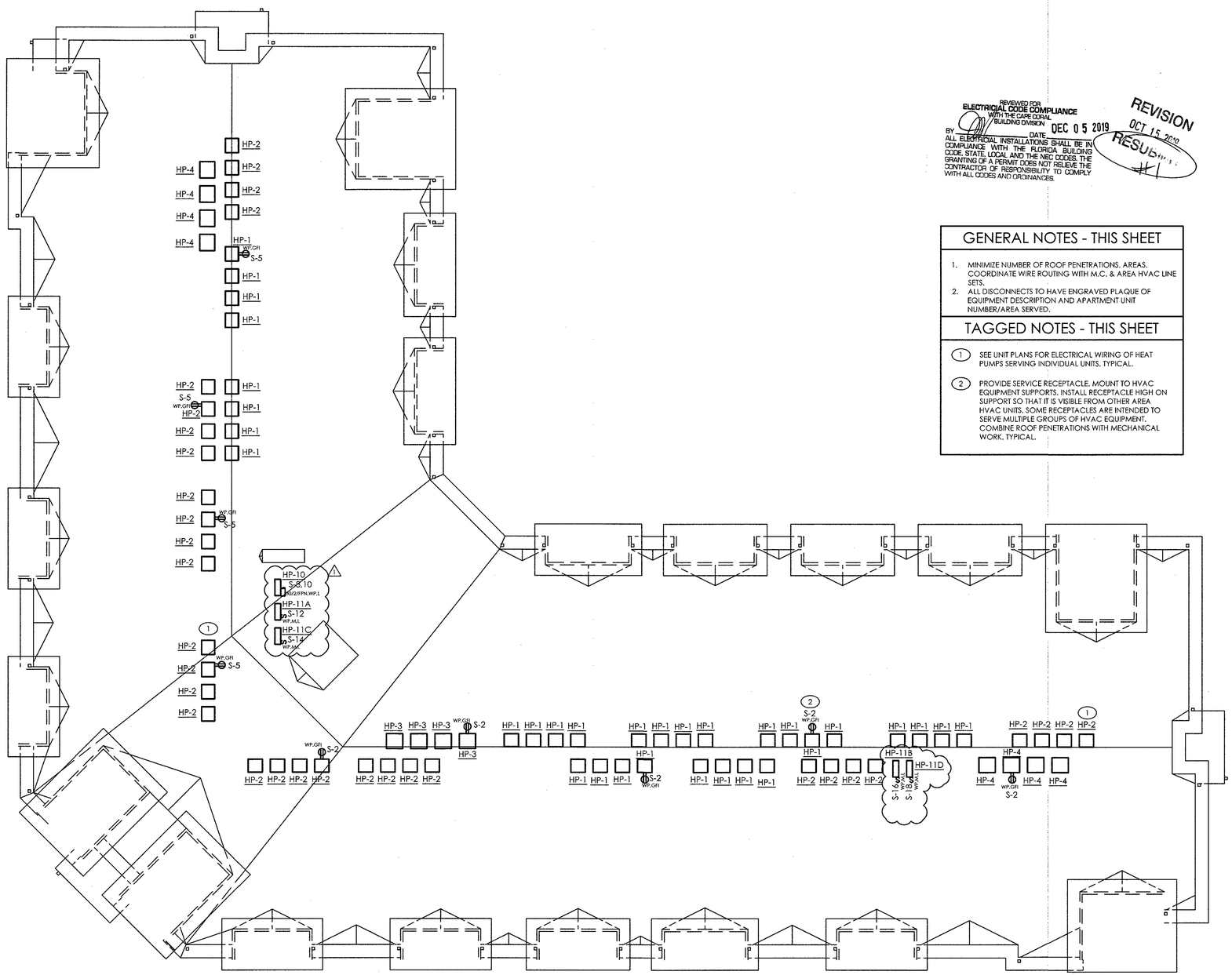
FL COA #: 3316
LIC.#: P-0990
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL FOURTH FLOOR PLAN
SHEET NUMBER: E1.13

10/09/2019 4:34 PM
PLX-1906-E113.DWG



1 ELECTRICAL ROOF PLAN
SCALE: 3/32" = 1'-0"

REVIEWED FOR ELECTRICAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
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REVISION
OCT 15 2019
RESUBMIT #1

GENERAL NOTES - THIS SHEET

1. MINIMIZE NUMBER OF ROOF PENETRATIONS. AREAS. COORDINATE WIRE ROUTING WITH M.C. & AREA HVAC LINE SETS.
2. ALL DISCONNECTS TO HAVE ENGRAVED PLAQUE OF EQUIPMENT DESCRIPTION AND APARTMENT UNIT NUMBER/AREA SERVED.

TAGGED NOTES - THIS SHEET

1. SEE UNIT PLANS FOR ELECTRICAL WIRING OF HEAT PUMPS SERVING INDIVIDUAL UNITS. TYPICAL.
2. PROVIDE SERVICE RECEPTACLE. MOUNT TO HVAC EQUIPMENT SUPPORTS. INSTALL RECEPTACLE HIGH ON SUPPORT SO THAT IT IS VISIBLE FROM OTHER AREA HVAC UNITS. SOME RECEPTACLES ARE INTENDED TO SERVE MULTIPLE GROUPS OF HVAC EQUIPMENT. COMBINE ROOF PENETRATIONS WITH MECHANICAL WORK. TYPICAL.

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10/9/19

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION
	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL ROOF PLAN
SHEET NUMBER: E1.20

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PLX-1906-E1.20.DWG

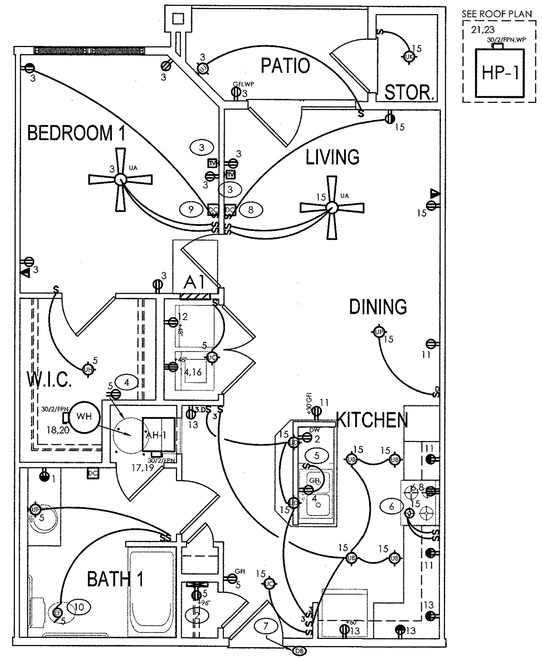
GENERAL NOTES - THIS SHEET

1. ALL 120V RECEPTACLES ARE TO BE TAMPER RESISTANT.
2. ALL RECEPTACLES ON 20 AMP CIRCUIT TO BE 20 AMP RECEPTACLES.
3. COORDINATE EXACT LOCATION OF WH, AH, & HP W/ P.C. & M.C. BEFORE BEGINNING WORK.
4. E.C. TO CONFIRM ALL APPLIANCE LOCATIONS W/ARCH PLANS PRIOR TO BEGINNING WORK.
5. PROVIDE EXTRA BRACING FOR ANY CEILING FAN.
6. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL OUTLETS BEFORE STARTING "ROUGH-IN" WORK. CONTRACTOR SHALL NOT "ROUGH-IN" ANY OUTLET, FIXTURE OR DEVICE OF ANY KIND WITHOUT FIRST ATTENDING A WALK THROUGH OF EACH APARTMENT UNIT WITH THE OWNER AND GENERAL CONTRACTOR FOR COORDINATION OF FINAL LOCATIONS.
7. UNIT PANELS ARE TO BE INSTALLED SO THAT NO TRIM LATCH ON BREAKER IS GREATER THAN 48" AFF.
8. SEE BUILDING PLANS FOR RATING OF UNIT DEMISING WALLS & FLOOR CEILING ASSEMBLIES.
9. COORDINATE VISUAL/HEARING IMPAIRED UNIT DESIGNATIONS WITH G.C. AND ARCH PRIOR TO BID.
10. NOTIFICATION DEVICES SHALL COMPLY WITH 2017 FLORIDA ACCESSIBILITY CODE 809.5.5.

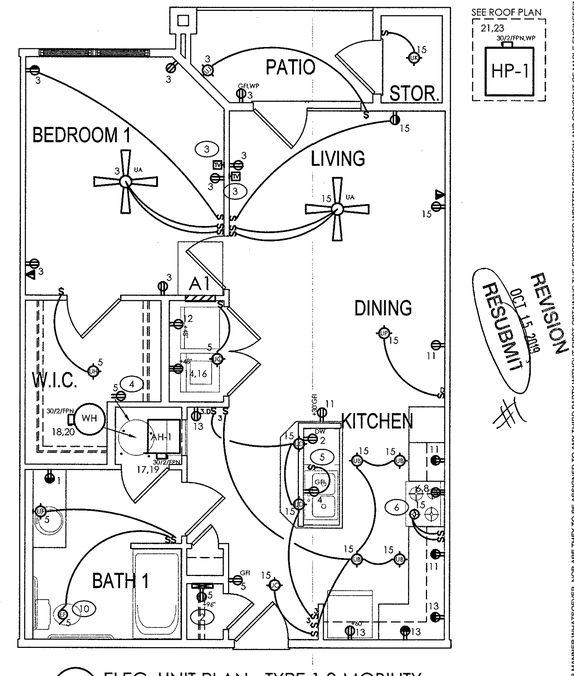
NOTE:
SEE FA PLANS FOR SMOKE DETECTORS IN ADA UNITS.

TAGGED NOTES - THIS SHEET

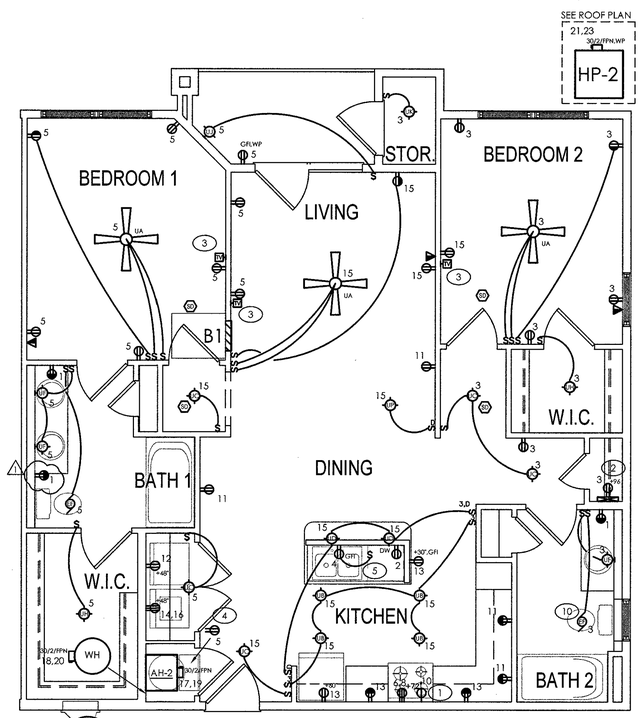
1. PROVIDE A SIMPLEX RECEPTACLE FOR MICROWAVE UNIT. MOUNT RECEPTACLE AT BACK OF UPPER CABINET; MICROWAVE UNIT IS MOUNTED OVER RANGE. COORDINATE EXACT LOCATION W/ G.C..
2. PROVIDE CHANNEL VISION BRAND STRUCTURED WIRING ENCLOSURE FOR NETWORKING PURPOSES WITHIN APARTMENT FOR MODULAR PUSH AND LOCK TELEPHONE, VIDEO, DATA, AND POWER MODULES. THE CABLE TV COAX AND TELEPHONE/DATA CAT 5 FEED FROM THE LOWER LEVEL DATA ROOM(S) SHALL TERMINATE AT THIS BOX IN EACH APARTMENT. THEN FROM THIS BOX SPLIT OFF TO FEED EACH DATA/TELEPHONE/CABLE TV OUTLET WITHIN EACH APARTMENT. USE 19" MODEL C-0119E IN THE 4BR AND 3BR UNITS AND USE 12" MODEL C-0112WE IN THE 2BR AND 1BR UNITS. INSIDE THE SINGLE GANG KNOCKOUT PROVIDED IN EACH STRUCTURED WIRING ENCLOSURE. PROVIDE A DUPLEX ELECTRICAL POWER RECEPTACLE ON CIRCUIT NOTED.
3. CONFIRM EXACT LOCATION OF TV OUTLET W/ OWNER.
4. PROVIDE POWER FOR WATER METER COORD. LOCATOIN W/ P.C..
5. PROVIDE COUNTER TOP AIR SWITCH NEXT TO SINK FOR GARBAGE DISPOSAL. CONFIRM EXACT LOCATION W/ OWNER.
6. HOOD LIGHTS AND CONTROLS TO BE SWITCHED SEPARATELY. SWITCHES TO BE LOCATED IN AN ADA COMPLIANT LOCATION. COORDINATE WITH G.C..
7. HARD-WIRED DOORBELL BUTTON/SWITCH. PROVIDE A LIGHTED OR CONTRASTING COLOR DOORBELL BUTTON/SWITCH CONNECTED TO THE AUDIBLE AND STROBE ALARMS.
8. AUDIO/VISUAL DOORBELL NOTIFICATION DEVICE. AUDIBLE AND STROBE ALARM TO BE INSTALLED IN EACH BATHROOM, BEDROOM, AND COMMON AREA TYPICAL.
9. NOTIFICATION DEVICES IN SLEEPING AREAS SHALL HAVE CONTROLS TO DEACTIVATE THE DOORBELL SIGNAL.
10. PROGRAMMABLE EXHAUST FAN SWITCH PROVIDED BY M.C. INSTALLED BY AND PROGRAMMED(DIALS SET) BY E.C.. SEE MECH PLAN.



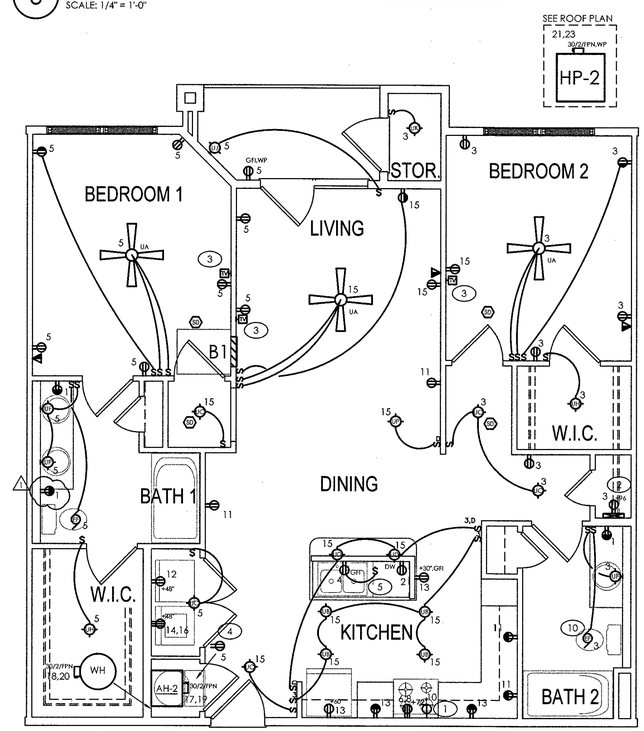
5 ELEC. UNIT PLAN - TYPE 1.0 MOBILITY (HEARING/VISUAL IMPARED)
SCALE: 1/4" = 1'-0"



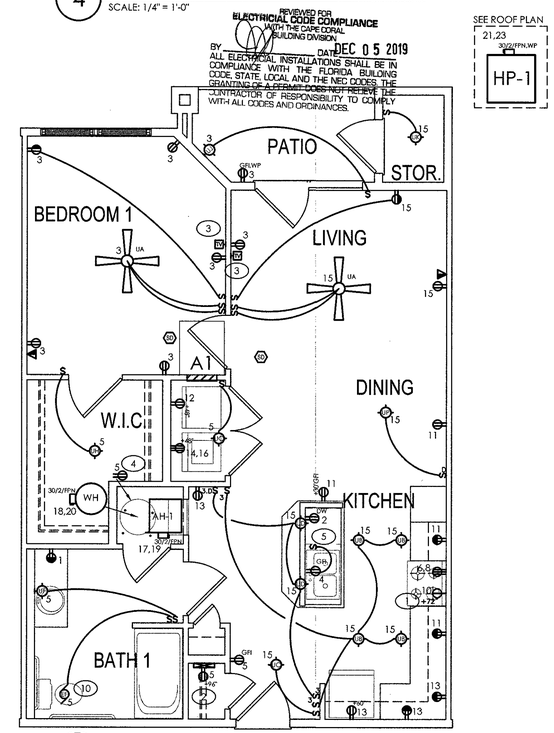
4 ELEC. UNIT PLAN - TYPE 1.0 MOBILITY
SCALE: 1/4" = 1'-0"



3 ELEC. UNIT PLAN - TYPE 2.0 FAIR HOUSING END UNIT
SCALE: 1/4" = 1'-0"



2 ELEC. UNIT PLAN - TYPE 2.0 FAIR HOUSING INTERIOR
SCALE: 1/4" = 1'-0"



1 ELEC. UNIT PLAN - TYPE 1.0 FAIR HOUSING
SCALE: 1/4" = 1'-0"

REVISION
DEC. 15 2019
RESUBMIT

REVIEWED FOR ELECTRICAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
BY ____ DATE DEC 05 2019
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REVIEWED
Subject to conformance to all Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: CR

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10/9/19

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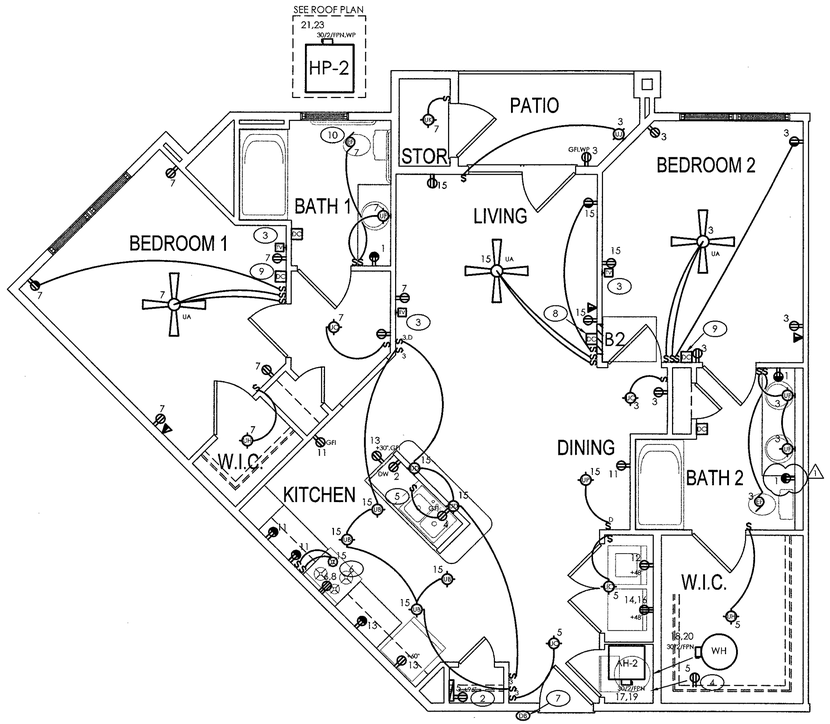
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

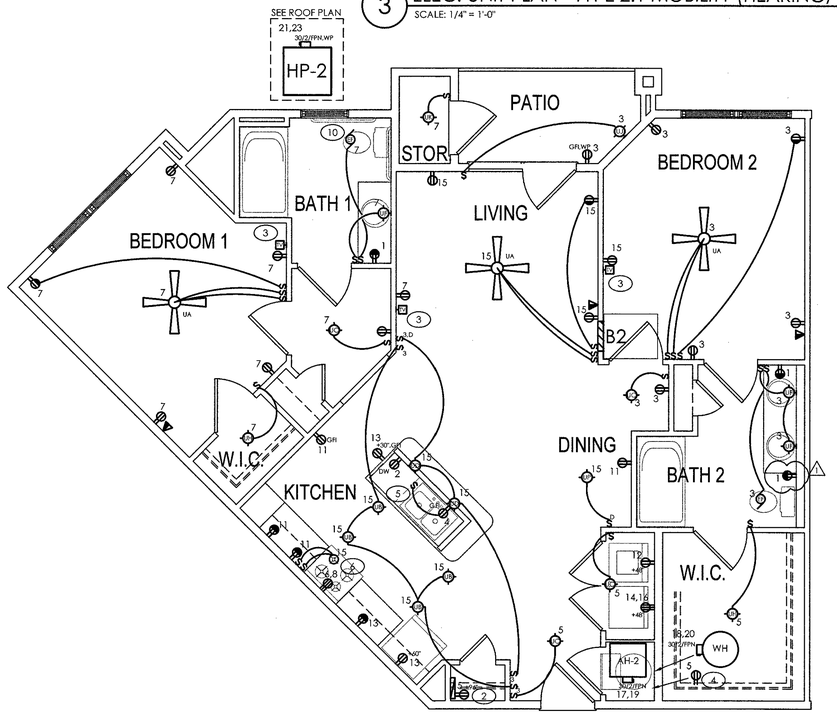
ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	DESCRIPTION
1	10.04.19	Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL UNIT PLANS
SHEET NUMBER: E1.30

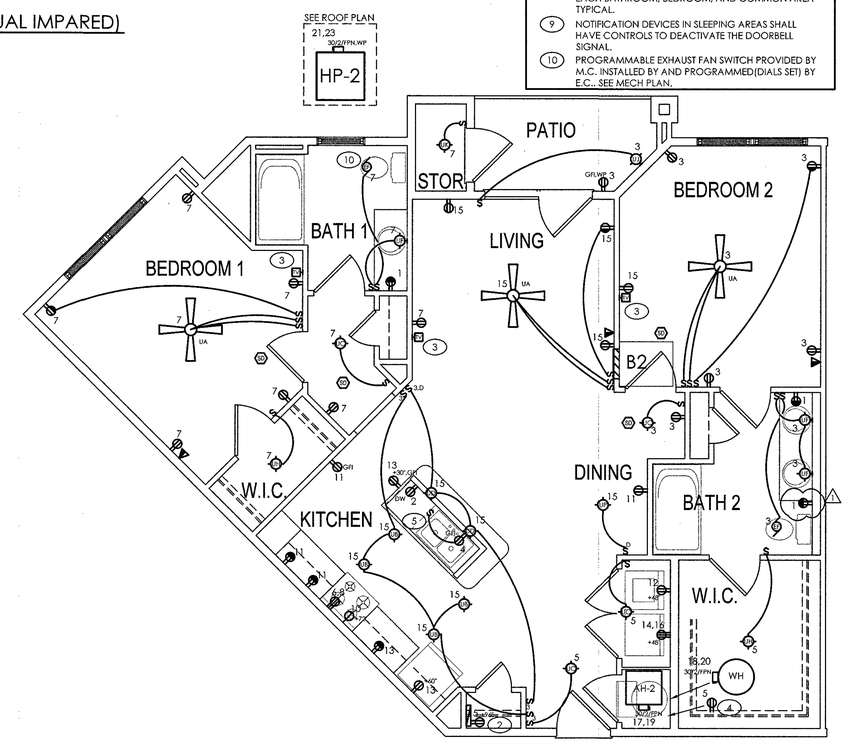
10/8/2019 6:36 PM
PLX-1906-E130.DWG



3 ELEC. UNIT PLAN - TYPE 2.1 MOBILITY (HEARING/VISUAL IMPARED)
SCALE: 1/4" = 1'-0"



2 ELEC. UNIT PLAN - TYPE 2.1 MOBILITY
SCALE: 1/4" = 1'-0"



1 ELEC. UNIT PLAN - TYPE 2.1FAIR HOUSING
SCALE: 1/4" = 1'-0"

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ELECTRICAL CODE COMPLIANCE
WITH THE CAPE CORAL
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BY
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REVISION
OCT 15 2019
RESUBMIT #1

GENERAL NOTES - THIS SHEET

1. ALL 120V RECEPTACLES ARE TO BE TAMPER RESISTANT.
2. ALL RECEPTACLES ON 20 AMP CIRCUIT TO BE 20 AMP RECEPTACLES.
3. COORDINATE EXACT LOCATION OF WH, AH, & HP W/ P.C. & M.C. BEFORE BEGINNING WORK.
4. E.C. TO CONFIRM ALL APPLIANCE LOCATIONS W/ARCH PLANS PRIOR TO BEGINNING WORK.
5. PROVIDE EXTRA BRACING FOR ANY CEILING FAN.
6. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL OUTLETS BEFORE STARTING "ROUGH-IN" WORK. CONTRACTOR SHALL NOT "ROUGH-IN" ANY OUTLET, FIXTURE OR DEVICE OF ANY KIND WITHOUT FIRST ATTENDING A WALK THROUGH OF EACH APARTMENT UNIT WITH THE OWNER AND GENERAL CONTRACTOR FOR COORDINATION OF FINAL LOCATIONS.
7. UNIT PANELS ARE TO BE INSTALLED SO THAT NO TRIM LATCH ON BREAKER IS GREATER THAN 48" AFF.
8. SEE BUILDING PLANS FOR RATING OF UNIT DEMISING WALLS & FLOOR CEILING ASSEMBLIES.
9. COORDINATE VISUAL/HEARING IMPAIRED UNIT DESIGNATIONS WITH G.C. AND ARCH PRIOR TO BID.
10. NOTIFICATION DEVICES SHALL COMPLY WITH 2017 FLORIDA ACCESSIBILITY CODE 809.5.5.

NOTE:
SEE FA PLANS FOR SMOKE DETECTORS IN ADA UNITS.

TAGGED NOTES - THIS SHEET

1. PROVIDE A SIMPLEX RECEPTACLE FOR MICROWAVE UNIT. MOUNT RECEPTACLE AT BACK OF UPPER CABINET; MICROWAVE UNIT IS MOUNTED OVER RANGE. COORDINATE EXACT LOCATION W/ G.C..
2. PROVIDE CHANNEL VISION BRAND STRUCTURED WIRING ENCLOSURE FOR NETWORKING PURPOSES WITHIN APARTMENT FOR MODULAR PUSH AND LOCK TELEPHONE, VIDEO, DATA, AND POWER MODULES. THE CABLE TV COAX AND TELEPHONE/DATA CAT 5 FEED FROM THE LOWER LEVEL DATA ROOM(S) SHALL TERMINATE AT THIS BOX IN EACH APARTMENT. THEN FROM THIS BOX SPLIT OFF TO FEED EACH DATA/TELEPHONE/CABLE TV OUTLET WITHIN EACH APARTMENT. USE 19" MODEL C-0119E IN THE 4BR AND 3BR UNITS AND USE 12" MODEL C-0112WE IN THE 2BR AND 1BR UNITS. INSIDE THE SINGLE GANG KNOCKOUT PROVIDED IN EACH STRUCTURED WIRING ENCLOSURE. PROVIDE A DUPLEX ELECTRICAL POWER RECEPTACLE ON CIRCUIT NOTED.
3. CONFIRM EXACT LOCATION OF TV OUTLET W/ OWNER.
4. PROVIDE POWER FOR WATER METER COORD. LOCATION W/ P.C..
5. PROVIDE COUNTER TOP AIR SWITCH NEXT TO SINK FOR GARBAGE DISPOSAL. CONFIRM EXACT LOCATION W/ OWNER.
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FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL UNIT PLANS
SHEET NUMBER: E1.31

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PLX-1906-E131.DWG

GENERAL NOTES - THIS SHEET

1. ALL 120V RECEPTACLES ARE TO BE TAMPER RESISTANT.
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7. UNIT PANELS ARE TO BE INSTALLED SO THAT NO TRIM LATCH ON BREAKER IS GREATER THAN 48" AFF.
8. SEE BUILDING PLANS FOR RATING OF UNIT DEMISING WALLS & FLOOR CEILING ASSEMBLIES.

TAGGED NOTES - THIS SHEET

1. PROVIDE A SIMPLEX RECEPTACLE FOR MICROWAVE UNIT. MOUNT RECEPTACLE AT BACK OF UPPER CABINET; MICROWAVE UNIT IS MOUNTED OVER RANGE. COORDINATE EXACT LOCATION W/ G.C..
2. PROVIDE CHANNEL VISION BRAND STRUCTURED WIRING ENCLOSURE FOR NETWORKING PURPOSES WITHIN APARTMENT FOR MODULAR PUSH AND LOCK TELEPHONE, VIDEO, DATA, AND POWER MODULES. THE CABLE TV COAX AND TELEPHONE/DATA CAT 5 FEED FROM THE LOWER LEVEL DATA ROOM(S) SHALL TERMINATE AT THIS BOX IN EACH APARTMENT. THEN FROM THIS BOX SPLIT OFF TO FEED EACH DATA/TELEPHONE/CABLE TV OUTLET WITHIN EACH APARTMENT. USE 19" MODEL C-0119E IN THE 4BR AND 3BR UNITS AND USE 12" MODEL C-0112WE IN THE 2BR AND 1BR UNITS. INSIDE THE SINGLE GANG KNOCKOUT PROVIDED IN EACH STRUCTURED WIRING ENCLOSURE. PROVIDE A DUPLEX ELECTRICAL POWER RECEPTACLE ON CIRCUIT NOTED.
3. CONFIRM EXACT LOCATION OF TV OUTLET W/ OWNER.
4. PROVIDE POWER FOR WATER METER COORD. LOCATION W/ P.C..
5. PROVIDE COUNTER TOP AIR SWITCH NEXT TO SINK FOR GARBAGE DISPOSAL. CONFIRM EXACT LOCATION W/ OWNER.
6. PROGRAMMABLE EXHAUST FAN SWITCH PROVIDED BY M.C. INSTALLED BY AND PROGRAMMED(DIALS SET) BY E.C.. SEE MECH PLAN.

REVISION
OCT 15 2019
RESUBMIT
#1

REVIEWED FOR
ELECTRICAL CODE COMPLIANCE
WITH THE CAPE CORAL
BUILDING DIVISION
BY _____ DATE DEC 05 2019
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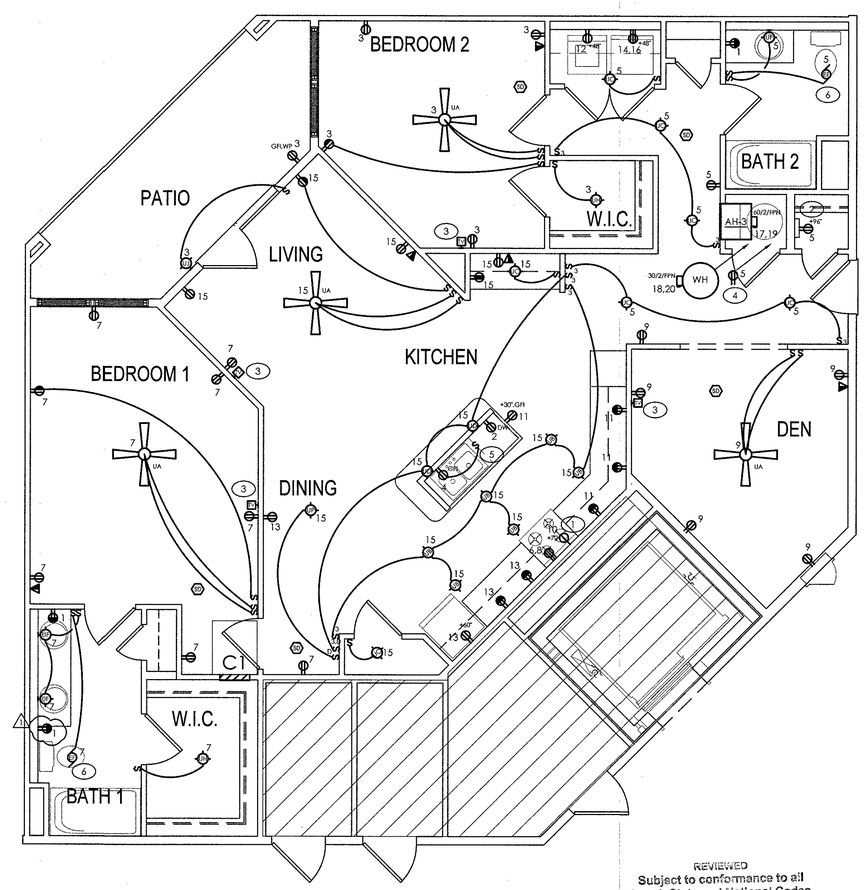
SEE ROOF PLAN
21,23
30/2/FPN,WP
HP-3



1 ELEC UNIT PLAN - TYPE 2.2 FAIR HOUSING
SCALE: 1/4" = 1'-0"

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Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
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Planworx
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office (919) 846-8100
website www.planworx.com

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STATE OF FLORIDA
PROFESSIONAL ENGINEER
1/9/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

MAPLE
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FL COA #: 3316
768 ST. MARYS ST.
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P:919-341-4247 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:			
07.19.19			

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL UNIT PLANS
SHEET NUMBER: E1.32

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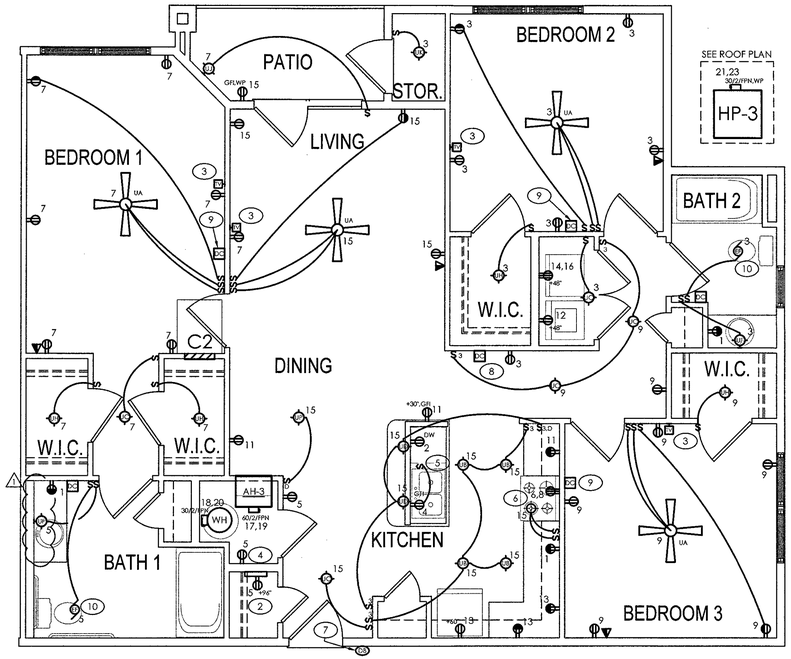
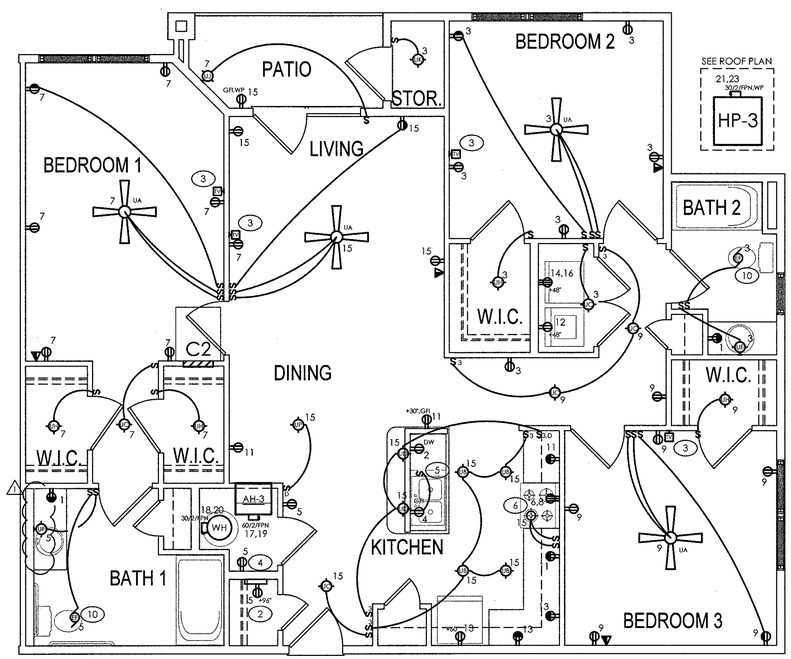
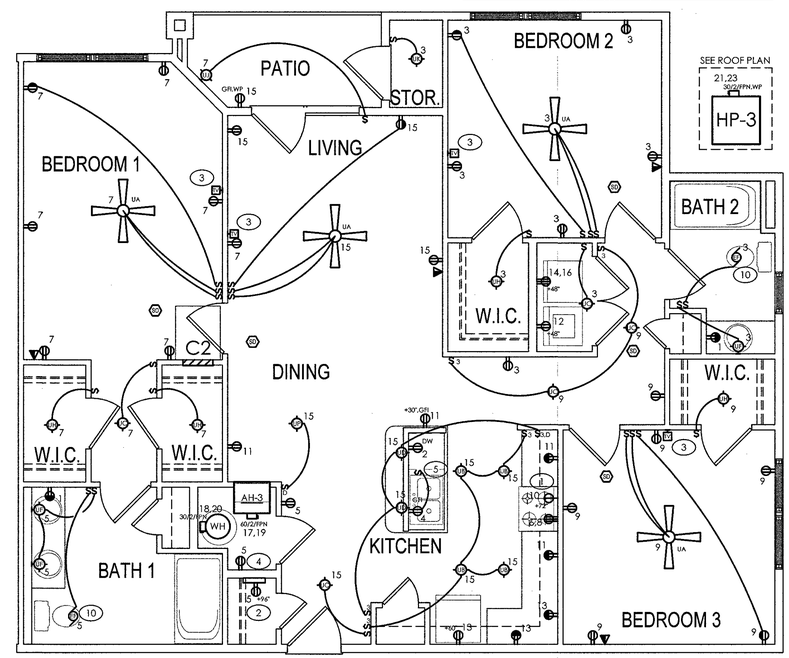


3 ELEC. UNIT PLAN - TYPE 3.0 MOBILITY (HEARING/VISUAL IMPARED)
SCALE: 1/4" = 1'-0"



2 ELEC. UNIT PLAN - TYPE 3.0 MOBILITY
SCALE: 1/4" = 1'-0"



1 ELEC. UNIT PLAN - TYPE 3.0 FAIR HOUSING
SCALE: 1/4" = 1'-0"

REVIEWED FOR ELECTRICAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
DEC 05 2019
BY _____ DATE _____
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GENERAL NOTES - THIS SHEET

1. ALL 120V RECEPTACLES ARE TO BE TAMPER RESISTANT.
2. ALL RECEPTACLES ON 20 AMP CIRCUIT TO BE 20 AMP RECEPTACLES.
3. COORDINATE EXACT LOCATION OF WH, AH, & HP W/ P.C. & M.C. BEFORE BEGINNING WORK.
4. E.C. TO CONFIRM ALL APPLIANCE LOCATIONS W/ARCH PLANS PRIOR TO BEGINNING WORK.
5. PROVIDE EXTRA BRACING FOR ANY CEILING FAN.
6. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL OUTLETS BEFORE STARTING "ROUGH-IN" WORK. CONTRACTOR SHALL NOT "ROUGH-IN" ANY OUTLET, FIXTURE OR DEVICE OF ANY KIND WITHOUT FIRST ATTENDING A WALK THROUGH OF EACH APARTMENT UNIT WITH THE OWNER AND GENERAL CONTRACTOR FOR COORDINATION OF FINAL LOCATIONS.
7. UNIT PANELS ARE TO BE INSTALLED SO THAT NO TRIM LATCH ON BREAKER IS GREATER THAN 48" AFF.
8. SEE BUILDING PLANS FOR RATING OF UNIT DEMISING WALLS & FLOOR CEILING ASSEMBLIES.
9. COORDINATE VISUAL/HEARING IMPAIRED UNIT DESIGNATIONS WITH G.C. AND ARCH PRIOR TO BID.
10. NOTIFICATION DEVICES SHALL COMPLY WITH 2017 FLORIDA ACCESSIBILITY CODE 809.5.5.

NOTE:
SEE FA PLANS FOR SMOKE DETECTORS IN ADA UNITS.

TAGGED NOTES - THIS SHEET

1. PROVIDE A SIMPLEX RECEPTACLE FOR MICROWAVE UNIT. MOUNT RECEPTACLE AT BACK OF UPPER CABINET; MICROWAVE UNIT IS MOUNTED OVER RANGE. COORDINATE EXACT LOCATION W/ G.C..
2. PROVIDE CHANNEL VISION BRAND STRUCTURED WIRING ENCLOSURE FOR NETWORKING PURPOSES WITHIN APARTMENT FOR MODULAR PUSH AND LOCK TELEPHONE, VIDEO, DATA, AND POWER MODULES. THE CABLE TV COAX AND TELEPHONE/DATA CAT 5 FEED FROM THE LOWER LEVEL DATA ROOM(S) SHALL TERMINATE AT THIS BOX IN EACH APARTMENT. THEN FROM THIS BOX SPLIT OFF TO FEED EACH DATA/TELEPHONE/CABLE TV OUTLET WITHIN EACH APARTMENT. USE 19" MODEL C-0119E IN THE 4BR AND 3BR UNITS AND USE 12" MODEL C-0112WE IN THE 2BR AND 1BR UNITS. INSIDE THE SINGLE GANG KNOCKOUT PROVIDED IN EACH STRUCTURED WIRING ENCLOSURE. PROVIDE A DUPLEX ELECTRICAL POWER RECEPTACLE ON CIRCUIT NOTED.
3. CONFIRM EXACT LOCATION OF TV OUTLET W/ OWNER.
4. PROVIDE POWER FOR WATER METER COORD. LOCATION W/ P.C..
5. PROVIDE COUNTER TOP AIR SWITCH NEXT TO SINK FOR GARBAGE DISPOSAL. CONFIRM EXACT LOCATION W/ OWNER.
6. HOOD LIGHTS AND CONTROLS TO BE SWITCHED SEPARATELY. SWITCHES TO BE LOCATED IN AN ADA COMPLIANT LOCATION. COORDINATE WITH G.C..
7. HARD-WIRED DOORBELL BUTTON/SWITCH. PROVIDE A LIGHTED OR CONTRASTING COLOR DOORBELL BUTTON/SWITCH CONNECTED TO THE AUDIBLE AND STROBE ALARMS.
8. AUDIO/VISUAL DOORBELL NOTIFICATION DEVICE. AUDIBLE AND STROBE ALARM TO BE INSTALLED IN EACH BATHROOM, BEDROOM, AND COMMON AREA TYPICAL.
9. NOTIFICATION DEVICES IN SLEEPING AREAS SHALL HAVE CONTROLS TO DEACTIVATE THE DOORBELL SIGNAL.
10. PROGRAMMABLE EXHAUST FAN SWITCH PROVIDED BY M.C. INSTALLED BY AND PROGRAMMED(DIALS SET) BY E.C.. SEE MECH PLAN.

REVIEWED
Subject to conformance to all Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: AR

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Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

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P:919-341-6247 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL UNIT PLANS
SHEET NUMBER: E1.33

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PLX-1906-E133.DWG

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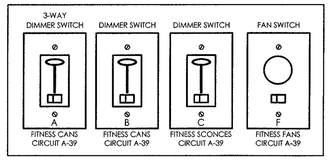
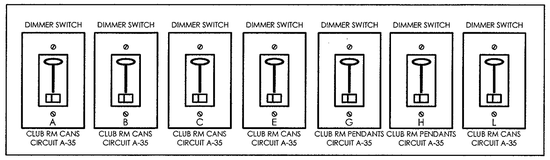


SWITCH BANK NOTES:

1. COORDINATE EXACT SWITCH TYPE W/ OWNER AND FIXTURES & BALLAST(S) BEING CONTROLLED.
2. LABEL SWITCHES W/ DESIGNATION SHOWN (I.E. "A", "AN", "W", ETC) & CIRCUIT #.
3. PROVIDE PLACARD AT EACH SWITCH INDICATING AREA CONTROLLED.
4. DIMMER SWITCH TO INCLUDE ON-OFF SWITCH AT BOTTOM TO ALLOW FOR ONE-TIME ADJUSTMENT OF LIGHT LEVELS.
5. HIGHEST POSITION OF HIGHEST SWITCH TO BE NO GREATER THAN 48" AFF (ANSI A117.1)

3 SWITCH BANK DETAIL 2 OF 2
NO SCALE



SWITCH BANK NOTES:

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2. LABEL SWITCHES W/ DESIGNATION SHOWN (I.E. "A", "AN", "W", ETC) & CIRCUIT #.
3. PROVIDE PLACARD AT EACH SWITCH INDICATING AREA CONTROLLED.
4. DIMMER SWITCH TO INCLUDE ON-OFF SWITCH AT BOTTOM TO ALLOW FOR ONE-TIME ADJUSTMENT OF LIGHT LEVELS.
5. HIGHEST POSITION OF HIGHEST SWITCH TO BE NO GREATER THAN 48" AFF (ANSI A117.1)

2 SWITCH BANK DETAIL 1 OF 2
NO SCALE

NOTE:
IN ASSEMBLY OCCUPANCIES OF OVER 100 PEOPLE WIRING MATERIALS AND METHODS SHALL COMPLY WITH NEC SEC 518 AND THE WIRING METHOD/MATERIAL ITSELF SHALL QUALIFY AS AN EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH NEC 250.118 OR SHALL CONTAIN AN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122. NO NM CABLE ALLOWED. CLUBHOUSE IS ASSEMBLY OCCUPANCY OVER 100 PEOPLE.

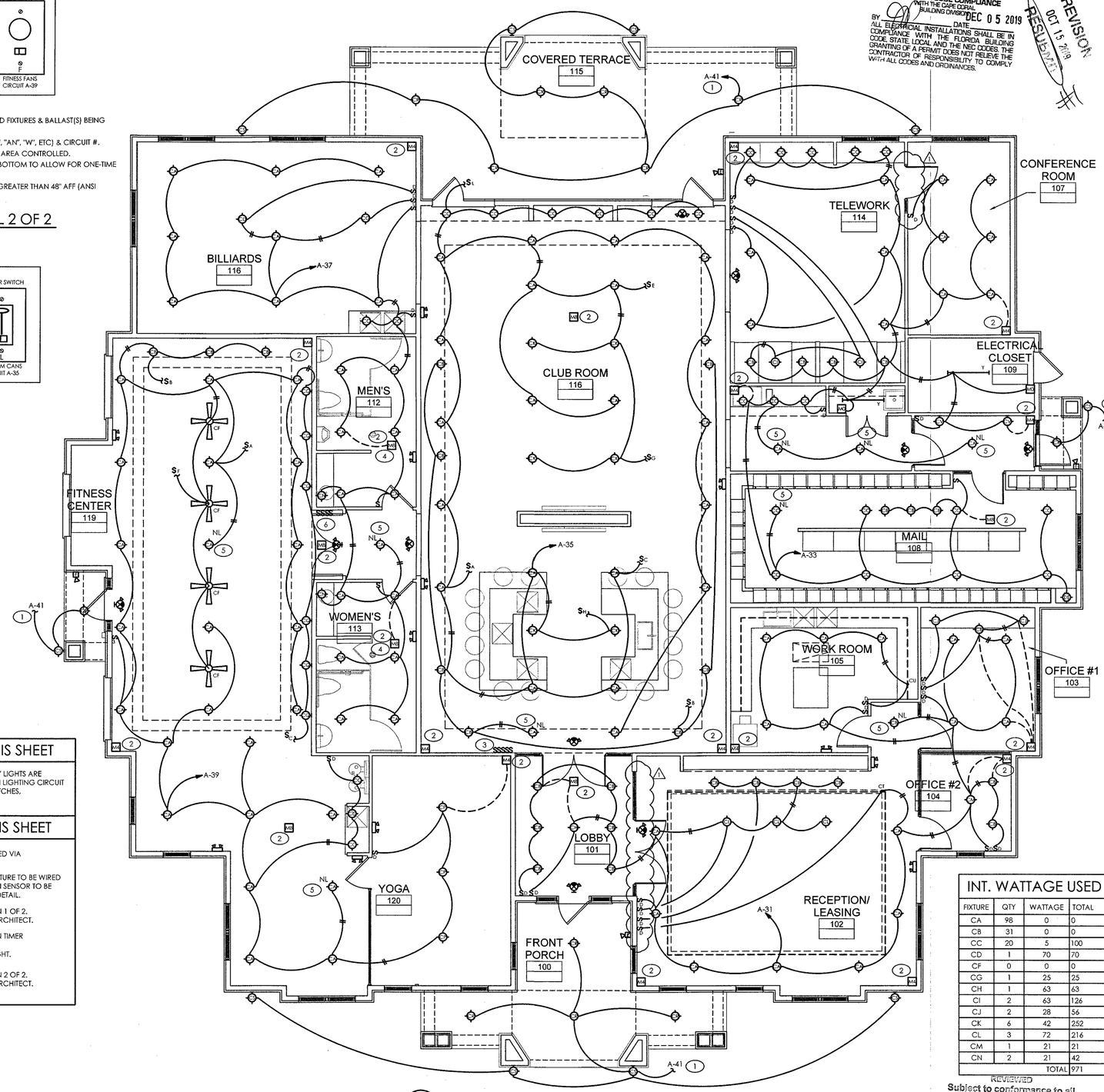
NOTE:
E.C. TO CONFIRM LIGHTING LOCATIONS & ELEVATIONS WITH ARCHITECT.

GENERAL NOTES - THIS SHEET

1. ENSURE THAT ALL EXIT AND EMERGENCY LIGHTS ARE CONNECTED TO LOCAL NORMALLY ON LIGHTING CIRCUIT AND ARE WIRED UPSTREAM OF ALL SWITCHES, CONTACTORS, AND SIMILAR.

TAGGED NOTES - THIS SHEET

1. LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. SEE PANEL SCHEDULE.
2. POWER CIRCUIT FOR AREA LIGHT FIXTURE TO BE WIRED VIA AREA MOTION SENSOR. MOTION SENSOR TO BE UPSTREAM OF AREA SWITCHES. SEE DETAIL.
3. PROPOSED SWITCH BANK LOCATION 1 OF 2. CONFIRM EXACT LOCATION WITH ARCHITECT.
4. MOTION SENSOR TO BE ON A 20 MIN TIMER
5. FIXTURE TO BE WIRED AS A NIGHT LIGHT.
6. PROPOSED SWITCH BANK LOCATION 2 OF 2. CONFIRM EXACT LOCATION WITH ARCHITECT.



1 ELEC. LIGHTING PLAN - CLUBHOUSE
SCALE: 3/16" = 1'-0"

INT. WATTAGE USED

FIXTURE	QTY	WATTAGE	TOTAL
CA	98	0	0
CB	31	0	0
CC	20	5	100
CD	1	70	70
CF	0	0	0
CG	1	25	25
CH	1	63	63
CI	2	63	126
CJ	2	28	56
CK	6	42	252
CL	3	72	216
CM	1	21	21
CN	2	21	42
		TOTAL	971

REVIEWED
Subject to conformance to all Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: CR

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10/7/19

SURFSIDE CORNER
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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL CLUBHOUSE
SHEET NUMBER: E2.10

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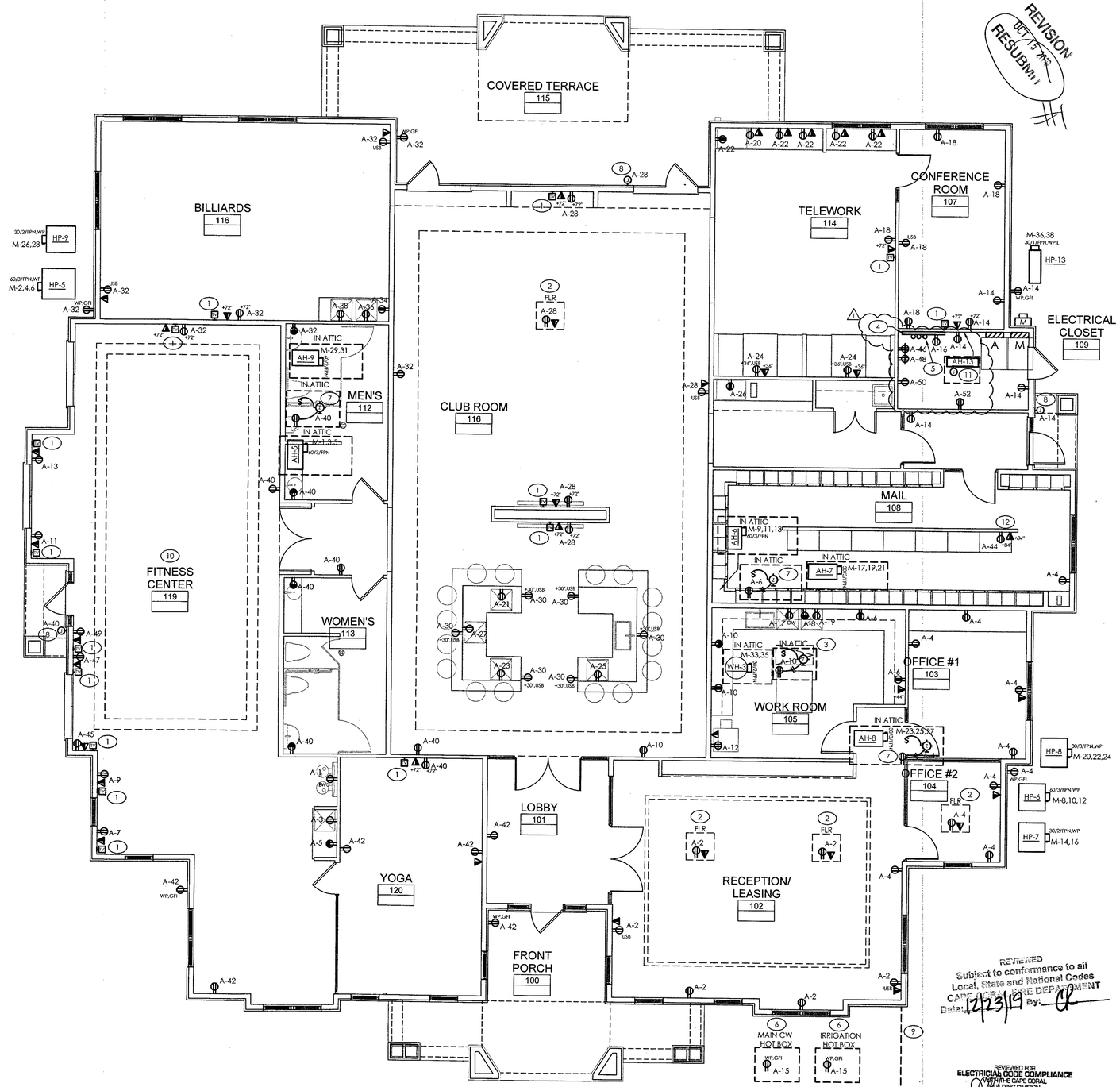
GENERAL NOTES - THIS SHEET

1. SEE PANEL SCHEDULES FOR GFI PROTECTION OF SOME OUTLETS.
2. E.C. TO COORDINATE EXACT LOCATION AND INSTALLATION OF ALL EQUIPMENT W/ OWNER. FINAL CONNECTION BY E.C..
3. PROVIDE USB COMBINATION DUPLEX RECEPTACLES FOR THOSE SHOWN AS "USB"

TAGGED NOTES - THIS SHEET

1. CONFIRM EXACT LOCATION OF TV OUTLET W/ OWNER.
2. COORDINATE FLOOR BOX TYPE & EXACT LOCATION W/ OWNER. COORDINATE CONDUIT ROUTING WITH G.C..
3. PROVIDE POWER FOR SWITCH AND LIGHT AT ATTIC ENTRANCE FOR AREA EQUIPMENT. PROVIDE POWER TO SERVICE RECEPTACLE FOR AREA EQUIPMENT. COORDINATE LOCATION OF LIGHT WITH P.C. AND G.C..
4. PROVIDE FIRE RATED PLYWOOD FOR TELE/DATA BOARD. PROVIDE #6 CU BONDING WIRE TO BUILDING GROUNDING SYSTEM.
5. PROVIDE (3) 4" CONDUITS TO TELE/DATA DEMARC POINTS. COORDINATE W/ G.C. AND UTILITY.
6. PROVIDE POWER TO WEATHER PROOF GFI RECEPTACLE AT HOT BOX FOR HEAT TAPE. COORDINATE EXACT LOCATION W/ P.C AND CIVIL PLANS. TYPICAL OF ALL.
7. PROVIDE POWER FOR SWITCH AND LIGHT IN ATTIC FOR AREA EQUIPMENT. PROVIDE POWER TO SERVICE RECEPTACLE FOR AREA EQUIPMENT. COORDINATE LOCATION OF LIGHT WITH M.C. AND G.C..
8. PROVIDE CONDUIT AND POWER FOR CARD READER AND/OR DOOR LOCK. COORDINATE EXACT LOCATIONS AND DETAILS WITH G.C.. DOOR TO OPEN FREELY IN DIRECTION OF EGRESS.
9. PROVIDE POWER AND CONDUIT FOR MONUMENT SIGN. CIRCUIT CONTROLLED VIA PHOTOCELL. CONFIRM SIGN LOCATION WITH ARCHITECT. COORDINATE ROUTING WITH G.C..
10. E.C. TO CONFIRM LOCATIONS OF ALL FITNESS CENTER RECEPTACLES WITH OWNER.
11. AIR HANDLER UNIT TO BE WIRED VIA OUTDOOR UNIT. E.C. TO INSTALL HIGH VOLTAGE WIRING. PROVIDE LOCKABLE DISCONNECT AT OUTDOOR UNIT TO SERVE AS AIR HANDLER DISCONNECT (LESS THAN 300 WATTS).
12. PROVIDE POWER AND DATA FOR AMAZON PACKAGE LOCKER. CONFIRM EXACT LOCATION WITH EQUIPMENT SUPPLIER.



1 ELEC. POWER PLAN - CLUBHOUSE
SCALE: 3/16" = 1'-0"

REVIEWED
Subject to conformance to all Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: CC

REVIEWED FOR:
ELECTRICIAN CODE COMPLIANCE
WITH THE CAPE CORAL
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BY _____ DATE DEC 05 2019
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FL COA #: 3316

ISSUE DATE:	07.19.19	DESCRIPTION
REVISIONS		
NUMBER	DATE	INITIALS
	10.04.19	Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL CLUBHOUSE
SHEET NUMBER: E2.11

PANEL M LOAD SUMMARY				
LOAD TYPE (LOADS ON 400A MCB)		kVA CONN.	DEM. FACT.	kVA DEM.
LIGHTS (6796 SQFT @ 2 W/SQFT > CONN. LOAD)		12.9	1.25	16.1
RECEPTACLES	1st 10 kVA	10.0	1.0	10.0
	REMAINDER	20.5	0.5	10.3
HVAC & R	ELEC HEAT	41.8	1.0	41.8
	LARGEST MOTOR	6.0	1.25	7.5
	REMAINDER	25.2	1.0	25.2
WATER HEATER (ELECTRIC)		4.5	1.00	4.5
MONUMENT SIGN		1.2	1.25	1.5
	TOTALS	122.1		116.9
TOTAL AMPS @ 208 V 3 PHASE		324.4		

ELECTRICAL CLOSET													3 PHASE, 4 WIRE
VOLTAGE: 208Y/120V	PANEL: M												SURFACE MOUNTED
AMPS: 400-MCB					LOAD PER PHASE								NEMA 1
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A	B	C	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
AH-5	3	6	50	1	4.4 2.0			2	35	8	3	HP-5
				3		4.4 2.0		4				
				5			4.5 2.0	6				
SPACE	1	-	-	7	0 2.0			8				
AH-6	3	6	50	9		4.5 2.0		10	35	8	3	HP-6
				11			4.4 2.0	12				
				13	4.4 1.8			14	25	10	2	HP-7
SPACE	1	-	-	15		0 1.9		16				
AH-7	3	10	30	17			2.9 0	18	-	-	1	SPACE
				19	2.9 1.3			20	20	12	3	HP-8
				21		2.8 1.2		22				
AH-8	3	10	30	23			2.9 1.2	24				
				25	2.9 1.2			26	25	10	2	HP-9
				27		2.8 1.1		28				
AH-9	2	8	40	29			3.2 10.9	30	200	3/0	3	PANEL A
				31	3.1 13.3			32				
WATER HEATER	2	10	30	33		2.2 12.9		34				
				35			2.3 1.5	36	30	10	2	AH-13/HP-13
SPACE	1	-	-	37	0 1.5			38				
SPACE	1	-	-	39		0 0		40	-	-	1	SPACE
SPACE	1	-	-	41			0 0	42	-	-	1	SPACE
					40.8	37.8	37.8					
TOTAL CONNECTED kVA:					116.4			DEMAND kVA				116.9
PANEL RMS SYM. AMPS:					SEE RISER			DEMAND AMPS				324.4

1. PANEL SHALL BE SERVICE ENTRANCE RATED EQUAL TO SQUARE D NQ.
2. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.

REVISION OCT 15 2019 RESUBMIT #1

2 TELE/DATA/CATV RISER

NO SCALE

TELE/DATA/CATV RISER NOTES:

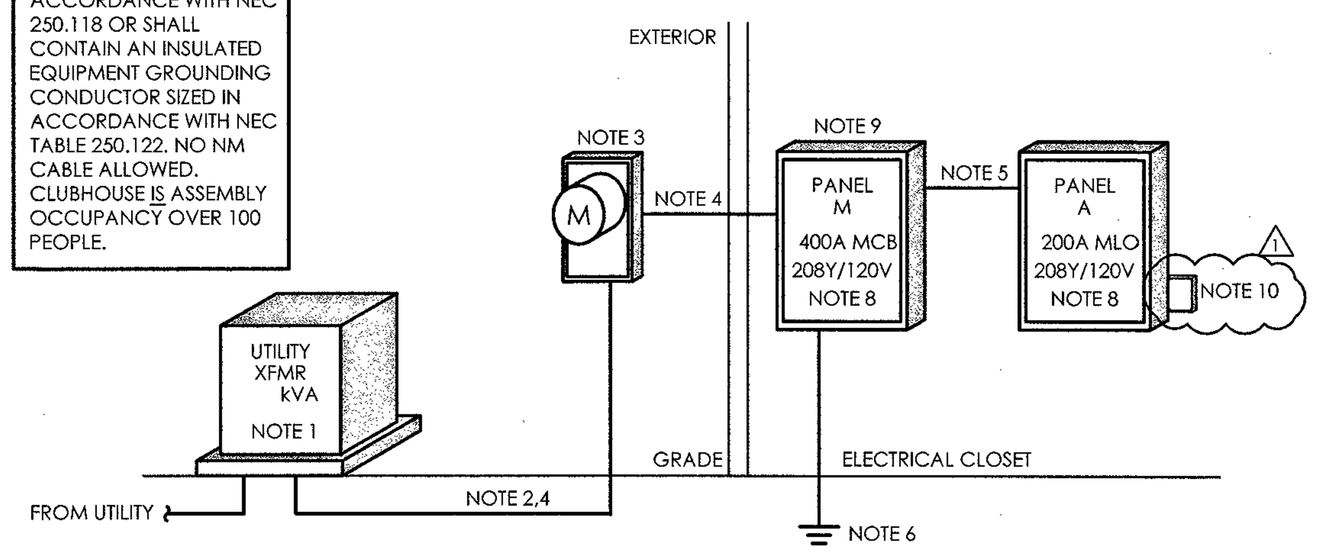
1. PROVIDE THREE 4" CONDUITS PROVIDED UNDER SLAB/GROUND TO PROPERTY LINE W/ PULL STRING. CLEARLY LABEL AND COORDINATE EXACT TERMINATION LOCATION AND DETAILS WITH OWNER AND TELEPHONE UTILITY.
2. PROVIDE 120V RECEPTACLE FOR TELEPHONE AND OTHER COMMUNICATION EQUIPMENT (SEE POWER PLANS).
3. PROVIDE #6 CU GROUNDING/BONDING CONDUCTOR IN ¾" CONDUIT TO INTERSYSTEM BONDING TERMINATION (IBT) AT BUILDING ELECTRICAL SERVICE. BOND CONDUIT/CONDUCTOR AT EACH END OF CONDUIT IF METAL RACEWAY IS USED. INSTALL PER NEC 250.94 & NEC 800.100. CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.

PANEL A LOAD SUMMARY				
LOAD TYPE (LOADS ON 200 AMP BREAKER AT PANEL M)		kVA CONN.	DEM. FACT.	kVA DEM.
LIGHTS (6796 SQFT @ 2 W/SQFT > CONN. LOAD)		12.9	1.25	16.1
RECEPTACLES	1st 10 kVA	10.0	1.0	10.0
	REMAINDER	20.5	0.5	10.3
MONUMENT SIGN		1.2	1.25	1.5
	TOTALS	44.6		37.9
TOTAL AMPS @ 208 V 3 PHASE		105.1		

NOTE:
IN ASSEMBLY OCCUPANCIES OF OVER 100 PEOPLE WIRING MATERIALS AND METHODS SHALL COMPLY WITH NEC SEC 518 AND THE WIRING METHOD/MATERIAL ITSELF SHALL QUALIFY AS AN EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH NEC 250.118 OR SHALL CONTAIN AN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122. NO NM CABLE ALLOWED. CLUBHOUSE IS ASSEMBLY OCCUPANCY OVER 100 PEOPLE.

	ELECTRICAL CLOSET														3 PHASE, 4 WIRE	
	VOLTAGE: 208Y/120V	PANEL: A													SURFACE MOUNTED	
	AMPS: 200-MLO					LOAD PER PHASE									NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A	B	C	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
GFI	REC: EWC	1	12	20	1	0.5 1.2			2	20	12	1	REC: RECEP/LEASE	
GFI	REC: U/C REFRIG FITNESS RM	1	12	20	3		0.5 1.2		4	20	12	1	REC: OFFICE #1/2 MAIL	
	REC: FITNESS RM EQUIP	1	12	20	5			0.4 0.4	6	20	12	1	REC: WORK RM	
#4	REC: FITNESS EQUIPMENT	1	12	20	7	0.5 0.4			8	20	12	1	REC: WORK RM EQUIP	
#4	REC: FITNESS EQUIPMENT	1	12	20	9		0.5 0.4		10	20	12	1	REC: WORK RM	
#4	REC: FITNESS EQUIPMENT	1	12	20	11			0.5 0.4	12	20	12	1	REC: COPIER/FAX	
#4	REC: FITNESS EQUIPMENT	1	12	20	13	0.5 1.0			14	20	12	1	REC:CORR/ELEC/EXT/CONF	
	REC: HOT BOXES	1	12	20	15		0.4 0.4		16	20	12	1	REC: TELE/DATA BOARD	#5
GFI	REC: DISHWASHER WORK RM	1	12	20	17			1.5 1.0	18	20	12	1	REC:CONF/TV	
GFI	REC: U/C REFRIG WORK RM	1	12	20	19	0.5 0.2			20	20	12	1	REC: PRINTER	
GFI	REC: U/C REFRIG CLUB RM	1	12	20	21		0.5 0.6		22	20	12	1	REC: WORKSTATIONS	
GFI	REC: U/C REFRIG CLUB RM	1	12	20	23			0.5 0.4	24	20	12	1	REC: WORKSTATIONS	
GFI	REC: ICE MAKER CLUB RM	1	12	20	25	0.5 1.4			26	20	12	1	REC: COFFEE MACHINE	
	REC: MICROWAVE	1	12	20	27		1.5 1.0		28	20	12	1	REC: CLUB RM/TVS	
	SPACE	1	-	-	29			0 1.2	30	20	12	1	REC: CLUB RM	GFI
	LTS: RECEP/OFFICE/WORK	1	12	20	31	0.9 1.2			32	20	12	1	REC: BILLIARDS/EXT	
	LTS: MAIL/TELE/CONF	1	12	20	33		1.0 0.4		34	20	12	1	REC: BILLIARDS EQUIP	
	LTS: CLUB RM	1	12	20	35			1.2 0.5	36	20	12	1	REC: ICE MAKER BILLIARDS	GFI
	LTS: BILLIARDS/BATH RMS	1	12	20	37	0.9 0.5			38	20	12	1	REC: U/C REFRIG BILLIARDS	GFI
	LTS: FITNESS/YOGA	1	12	20	39		1.0 1.0		40	20	12	1	REC: BATH RM/HALL	
PC	LTS: EXTERIOR	1	12	20	41			0.4 1.0	42	20	12	1	REC: YOGA/TV/LOBBY/EXT	
PC	MONUMENT SIGN	1	12	20	43	1.2 1.0			44	20	12	1	REC: AMAZON PACK LOCK	
#4	REC: FITNESS EQUIPMENT	1	12	20	45		0.5 1.0		46	20	-	1	REC: SECURITY/CAMERAS	#5
#4	REC: FITNESS EQUIPMENT	1	12	20	47			0.5 1.0	48	20	-	1	REC: SECURITY/CAMERAS	#5
#4	REC: FITNESS EQUIPMENT	1	12	20	49	0.5 .4			50	20	-	1	REC: A/V RACK	#5
	SPACE	1	-	-	51		0 1.0		52	20	-	1	REC: TELECOM UTILITIES	#5
	SPACE	1	-	-	53			0 0	54	20	-	1	SPARE	
						13.3	12.9	10.9						
	TOTAL CONNECTED kVA:					37.1			DEMAND kVA				37.9	
	PANEL RMS SYM. AMPS:					SEE RISER			DEMAND AMPS				105.1	

1. PANEL SHALL BE EQUAL TO SQUARE D NQ.
2. GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.
3. PC - CIRCUIT CONTROLLED VIA CONTACTOR WIRED THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.
4. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.
5. CIRCUIT THROUGH EXTERNAL SURGE PROTECTION DEVICE. SEE RISER DIAGRAM.



1 ELECTRICAL POWER RISER - CLUBHOUSE

NO SCALE

RISER DIAGRAM NOTES:

1. PAD MOUNTED TRANSFORMER BY UTILITY.
2. SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C.. CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.
3. 400A METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY
4. (2) SETS OF (4)#3/0 CU, 2" CONDUIT.
5. (4)#3/0 CU, #6 CU GND, 2" CONDUIT.
6. #1/0 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
7. PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
8. UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED BREAKERS/FUSES.
9. PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
10. SURGE PROTECTION DEVICE.

REVIEWED FOR ELECTRICAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
BY ____ DATE DEC 05 2019
ALL ELECTRICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE, LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

10/8/2019 6:37 PM
PLX-1906-E212.DWG

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SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL CLUBHOUSE
SHEET NUMBER: E2.12

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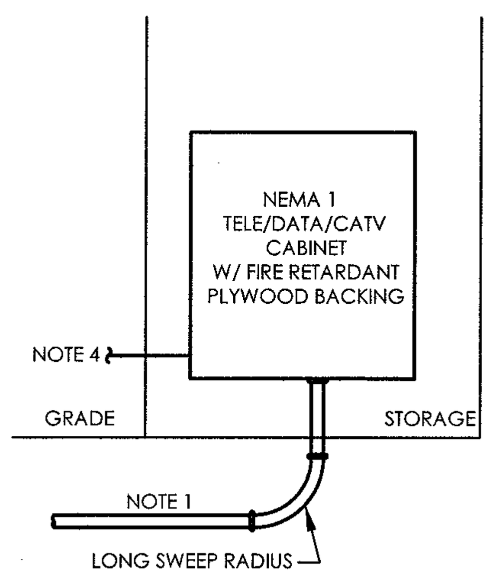
		STORAGE/MAINT											3 PHASE, 4 WIRE	
	VOLTAGE: 208Y/120V	PANEL: P											SURFACE MOUNTED	
	AMPS: 200-MCB					LOAD PER PHASE							NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A	B	C	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
	REC: DEDICATED BAR	1	12	20	1	0.4 2.0			2	30	10	3	POOL EQUIP RM PUMP	#7
	REC: DEDICATED BAR	1	12	20	3		0.4 2.0		4					
	REC:TELE/DATA BOARD	1	12	20	5			0.4 2.0	6					
	SPACE	1	-	-	7	0 0			8				SHUNT TRIP	#4
	WH-3	2	10	30	9		2.2 2.0		10	30	10	3	POOL EQUIP RM PUMP	#7
					11			2.3 2.0	12					
TC,GFI	LTS: POOL	1	12	20	13	0.5 2.0			14					
TC,GFI	LTS: POOL	1	12	20	15		0.5 0		16				SHUNT TRIP	#4
	REC: ATTIC/EXTERIOR	1	12	20	17			0.5 2.0	18	30	10	3	POOL EQUIP RM PUMP	#7
	REC:POOL EQUIP	1	12	20	19	0.7 2.0			20					
	REC:HEAT TAPE/POOL PHON	1	12	20	21		0.4 2.0		22					
	REC: BAR EQUIPMENT	1	12	20	23			0.4 0	24				SHUNT TRIP	#4
GFI	REC: VENDING MACHINE	1	12	20	25	0.5 1.0			26	20	12	1	REC:TVS/COUNTER	
GFI	REC: VENDING MACHINE	1	12	20	27		0.5 0		28	20	-	1	SPARE	
LO	LTS: INTERIOR/EF'S	1	12	20	29			0.3 0	30	20	-	1	SPARE	
PC	LTS:EXTERIOR	1	12	20	31	0.2 0			32	20	-	1	SPARE	
	AH-12A/B & HP-12	2	10	25	33		1.8 0		34	20	-	1	SPARE	
					35			1.8 0	36	20	-	1	SPARE	
	SPACE	1	-	-	37	0 0			38	-	-	1	SPACE	
	SPACE	1	-	-	39		0 0		40	-	-	1	SPACE	
	SPACE	1	-	-	41			0 0	42	-	-	1	SPACE	
						9.3	11.8	11.7						
	TOTAL CONNECTED kVA:					32.8			DEMAND kVA:				39.7	
	PANEL RMS SYM. AMPS:					SEE RISER			DEMAND AMPS:				110.2	

1. PANEL SHALL BE SERVICE ENTRANCE RATED EQUAL TO SQUARE D NQ.
2. L - INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE DISCONNECT)
3. LO - INDICATES LOCK-ON ATTACHMENT REQUIRED
4. POOL PUMP SHUNT TRIP TO BE WIRED TO EMERGENCY STOP SWITCH. SEE PLAN FOR LOCATION. POWER SHUNT TRIP VIA CIRCUIT P-29.
5. GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.
6. PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.
7. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.
8. TC - CIRCUIT THROUGH 7-DAY PROGRAMMABLE ASTRONOMICAL TIME SWITCH WITH AUTO-DUSK, AUTO-DAWN FEATURE EQUAL TO LEVITON VPT24-1PZ. SWITCH TO INCLUDE MANUAL OVERRIDE AND BATTERY BACK-UP. LOCATE AT PANEL.

PANEL P LOAD SUMMARY

LOAD TYPE (LOADS ON A 200A MCB)		kVA CONN.	DEM. FACT.	kVA DEM.
LIGHTS (704 SQFT @ 2 W/SQFT > CONN. LOAD)		1.4	1.25	1.8
RECEPTACLES	1st 10 kVA	5.2	1.0	5.2
	REMAINDER	0.0	0.5	0.0
HVAC & R	ELEC HEAT	0.0	1.0	0.0
	LARGEST MOTOR	3.6	1.25	4.5
	REMAINDER	0.0	1.0	0.0
WATER HEATER (ELECTRIC)		4.5	1.00	4.5
POOL LTS		1.0	1.25	1.3
POOL RM PUMPS		18.0	1.25	22.5
	TOTALS	33.7		39.7
TOTAL AMPS @ 208 V 3 PHASE		110.2		



4 NO SCALE

NOTES:

1. PROVIDE (1) 3" CONDUIT PROVIDED UNDER SLAB/GROUND TO PROPERTY LINE W/ PULL STRING. CLEARLY LABEL AND COORDINATE EXACT TERMINATION LOCATION AND DETAILS WITH OWNER AND TELEPHONE UTILITY.
2. 3/4" FINISH GRADE PLYWOOD BACKBOARD PAINTED WITH FLAME RETARDANT PAINT. COORDINATE SIZE & EXACT LOCATION W/ OWNER.
3. PROVIDE 120V QUAD RECEPTACLE ON A DEDICATED CIRCUIT FOR TELEPHONE AND OTHER COMMUNICATION EQUIPMENT (SEE POWER PLANS).
4. PROVIDE #6 CU GROUNDING/BONDING CONDUCTOR IN ¾" CONDUIT TO INTERSYSTEM BONDING TERMINATION (IBT) AT BUILDING ELECTRICAL SERVICE. BOND CONDUIT/CONDUCTOR AT EACH END OF CONDUIT IF METAL RACEWAY IS USED. INSTALL PER NEC 250.94 & NEC 800.100. CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.

FIRE RATING LEGEND
1-HR WALL
* POOL EQUIPMENT AND CHEMICAL ROOM CEILING IS 1-HR RATED.

GENERAL NOTES - THIS SHEET

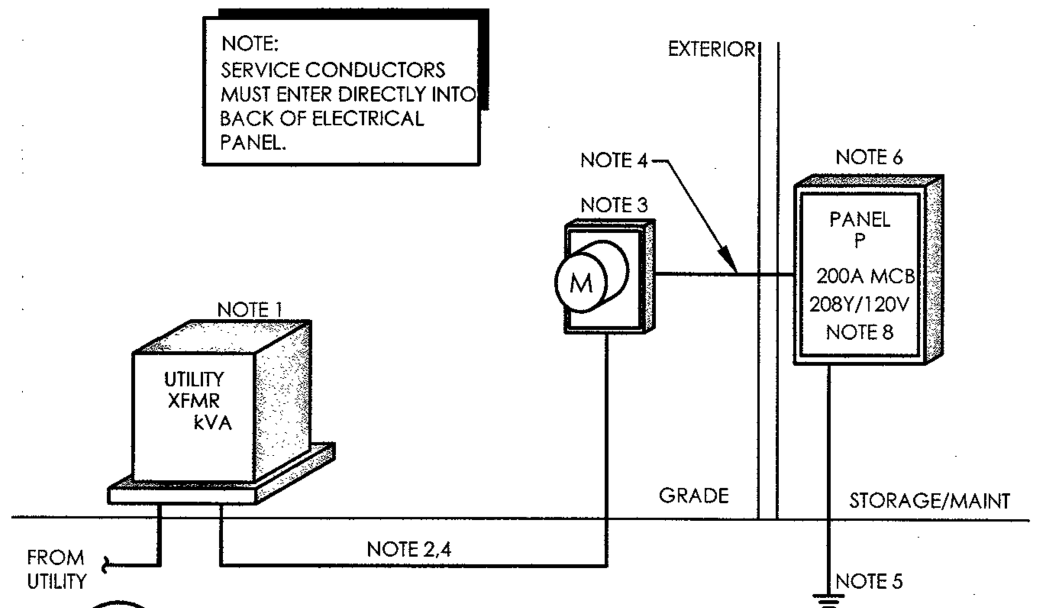
1. ENSURE THAT ALL EXIT AND EMERGENCY LIGHTS ARE CONNECTED TO LOCAL NORMALLY ON LIGHTING CIRCUIT AND ARE WIRED UPSTREAM OF ALL SWITCHES, CONTACTORS, AND SIMILAR.
2. SEE PANEL SCHEDULES FOR GFI PROTECTION OF SOME OUTLETS.
3. FINAL CONNECTION TO ALL EQUIPMENT BY E.C..
4. RECEPTACLES INDICATED "TR" ARE TO BE TAMPER RESISTANT.

TAGGED NOTES - THIS SHEET

1. PROVIDE POWER & GFCI PROTECTION FOR POOL PUMPS. PROVIDE WITH NEMA 4X RATED DISCONNECT SWITCH. COORDINATE EXACT LOCATION & SPEC W/ G.C. & POOL CONTRACTOR BEFORE BEGINNING WORK. FINAL CONNECTION BY E.C..
2. PROVIDE EMERGENCY "PUSH IN" POWER OFF SWITCH FOR POOL PUMPS. VERIFY LOCATION W/ LOCAL AHJ. WIRE TO SHUNT TRIP BREAKERS IN PANEL. SEE PANEL SCHEDULE.
3. PROVIDE EMERGENCY PHONE RECEPTACLE. FIELD VERIFY LOCATION W/ LOCAL AHJ.
4. PROVIDE 3" EMPTY CONDUIT W/ PULL STRING TO PROPERTY LINE FOR TELEPHONE. COORDINATE W/ G.C..
5. PROVIDE (2) 1" CONDUITS W/ CIRCUITS AS SHOWN TO POOL FOR POOL LIGHTS AND OTHER POOLSIDE EQUIPMENT. COORDINATE EXACT SIZE & LOCATIONS W/ G.C. & POOL CONTRACTOR. CIRCUIT TO BE CONTROLLED VIA TIME CLOCK.
6. EXHAUST FAN TO BE WIRED FOR CONTINUOUS OPERATION. COORDINATE W/ M.C..
7. LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. SEE PANEL SCHEDULE.
8. PROVIDE SWITCH AT ATTIC ENTRANCE FOR ATTIC LIGHT. PROVIDE SERVICE RECEPTACLE AT AREA EQUIPMENT COORD. LOCATION W/ P.C. AND G.C..
9. CONFIRM EXACT LOCATION OF TV OUTLET W/ OWNER.
10. CORROSIVE ENVIRONMENT (NEC 680.14). SEE GENERAL NOTES SHEET E0.01.
11. MOTION SENSOR TO BE ON 20 MINUTE TIMER.
12. POWER CIRCUIT FOR AREA LIGHT FIXTURE TO BE WIRED VIA AREA MOTION SENSOR. MOTION SENSOR TO BE UPSTREAM OF AREA SWITCHES. SEE DETAIL.
13. AIR HANDLER UNIT TO BE WIRED VIA OUTDOOR UNIT. E.C. TO INSTALL HIGH VOLTAGE WIRING. PROVIDE LOCKABLE DISCONNECT AT OUTDOOR UNIT TO SERVE AS AIR HANDLER DISCONNECT (LESS THAN 300 WATTS).
14. PROVIDE FIRE RATED PLYWOOD FOR TELE/DATA BOARD. PROVIDE #6 CU BONDING WIRE TO BUILDING GROUNDING SYSTEM.
15. PROVIDE (1) 3" CONDUITS W/ PULL STRING TO TELE/DATA & CATV DEMARK POINTS. COORDINATE W/ G.C. AND OWNER.

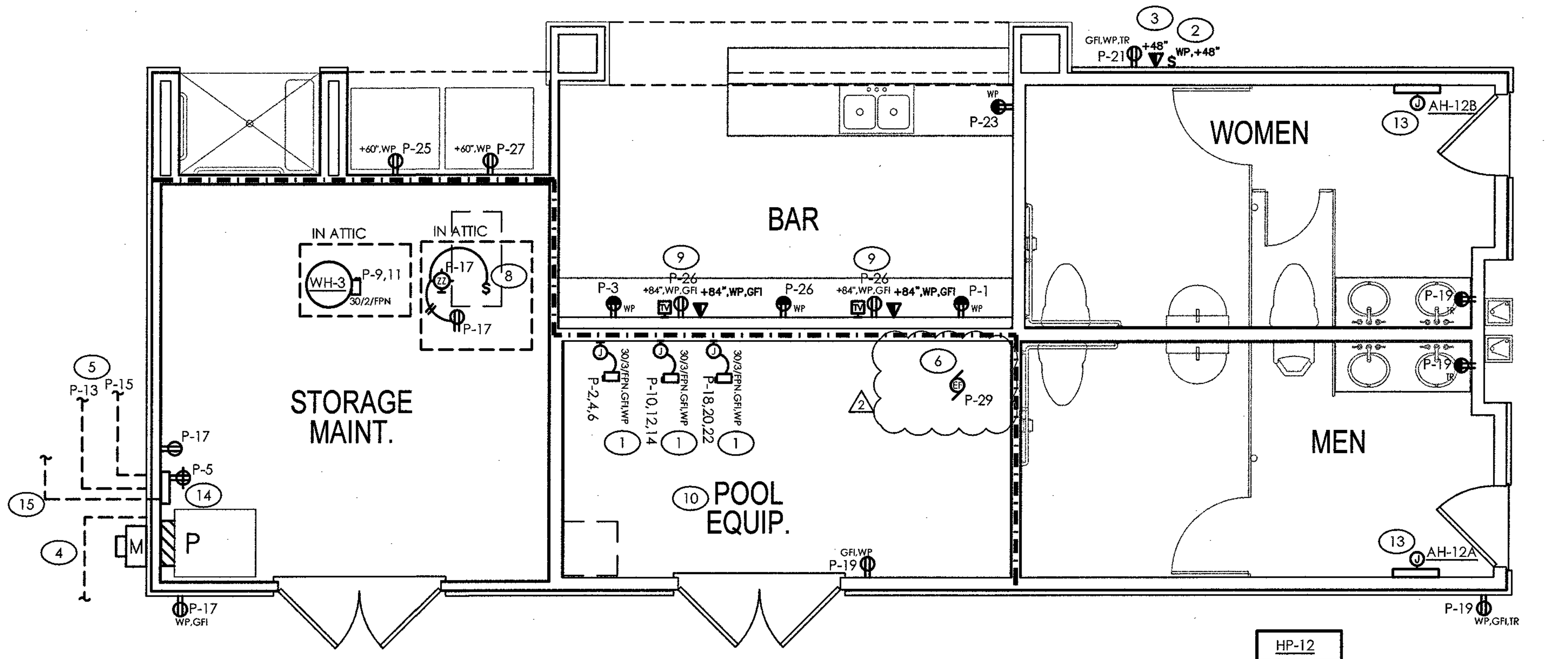
REVIEWED FOR ELECTRICAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
BY ____ DATE 12/24/19
ALL ELECTRICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE, LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

NOTE: SERVICE CONDUCTORS MUST ENTER DIRECTLY INTO BACK OF ELECTRICAL PANEL.

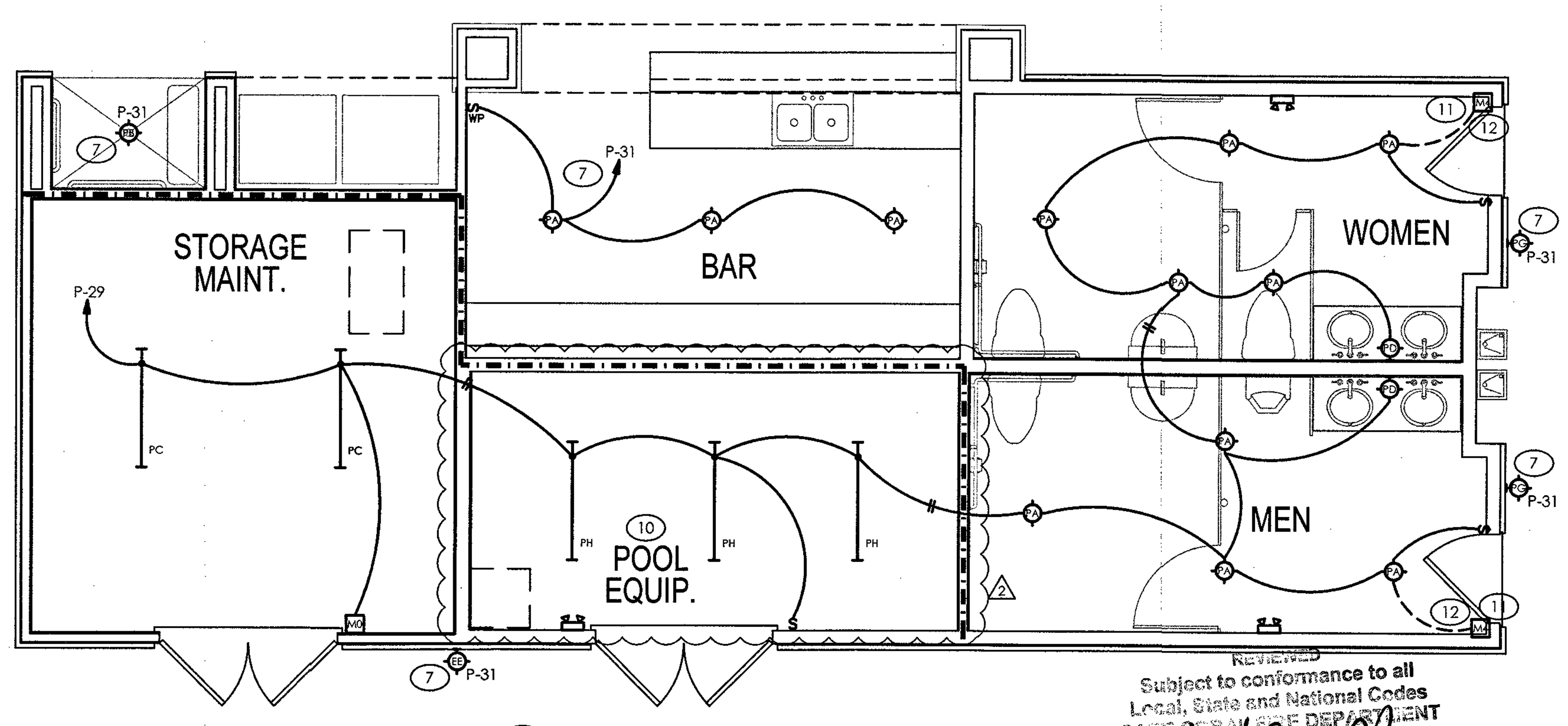


3 ELECTRICAL POWER RISER
NO SCALE

RISER DIAGRAM NOTES:
1. PAD MOUNTED TRANSFORMER BY UTILITY.
2. SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C.. CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.
3. 200A METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
4. (4)#3/0 CU, 2" CONDUIT.
5. #4 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
6. PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
7. PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
8. UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 42,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED BREAKERS/FUSES.



2 ELEC. POWER PLAN - POOLHOUSE
SCALE: 1/4" = 1'-0"



1 ELEC. LIGHTING PLAN - POOLHOUSE
SCALE: 1/4" = 1'-0"

REVIEWED
Subject to conformance to all Local, State and National Codes
CAPE CORAL FIRE DEPARTMENT
Date: 12/23/19 By: CR

DEC 20 2019
RESUBMIT #3

ZACK L. TOMKIN LICENSE No.79002 STATE OF FLORIDA PROFESSIONAL ENGINEER 12/17/19

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office (919) 846-8100
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SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

MAPLE ENGINEERING, PLLC
FL COA #: 3316
708 ST. MARYS ST
RALEIGH, NC 27605 LIC.#: P-0990
P:919-341-4247 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION
2	11.22.19		Cycle 2 Permit Responses
3	12.13.19		Cycle 3 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL POOLHOUSE PLANS
SHEET NUMBER: E3.10

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12/16/2019 4:03 PM
PLX-1906-E310.DWG

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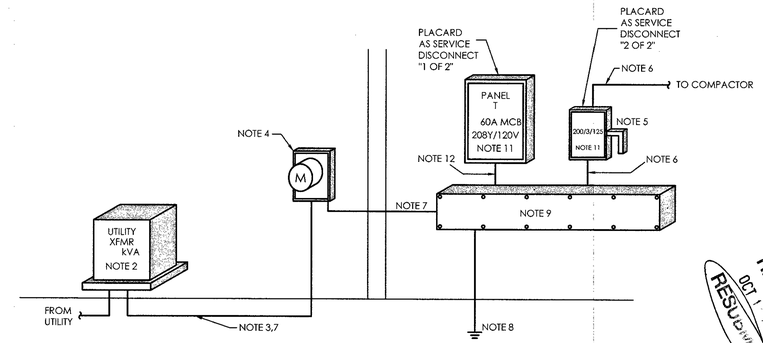
REVIEWED FOR ELECTRICAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
BY _____ DATE DEC 05 2019
ALL ELECTRICIAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE, LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.



REVISION OCT 1 2019 RESUBMIT

2 ELECTRICAL COMPACTOR POWER RISER
NO SCALE

RISER DIAGRAM NOTES:

1. E.C. TO VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.
2. PAD MOUNTED TRANSFORMER BY UTILITY.
3. SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C.. CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.
4. 200A METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
5. SERVICE ENTRANCE RATED WEATHERPROOF DISCONNECT SIZED AND FUSED AS INDICATED.
6. (4)#1/0 CU, 1-1/2" CONDUIT.
7. (4)#1/0 CU, 1 1/2" CONDUIT.
8. #6 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
9. PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
10. PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
11. UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED BREAKERS/FUSES.
12. (4)#6 CU, 3/4" CONDUIT.

	TRASH COMPACTOR ENCLOSURE													3 PHASE, 4 WIRE
VOLTAGE: 208Y/120V	PANEL: T													SURFACE MOUNTED
AMPS: 60-MCB					LOAD PER PHASE									NEMA 3R
-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A		B		C	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-
PC LTS: TRASH COMPACTOR	1	12	20	1	0.1	0				2	-	-	1	SPACE
REC: NEXT TO PANEL	1	12	20	3			0.2	0		4	-	-	1	SPACE
SPACE	1	-	-	5					0	0	6	-	-	1	SPACE
					0.1		0.2		0.0					
TOTAL CONNECTED kVA:					0.3					DEMAND kVA:				0.3
PANEL RMS SYM. AMPS:	SEE RISER									DEMAND AMPS:				0.9

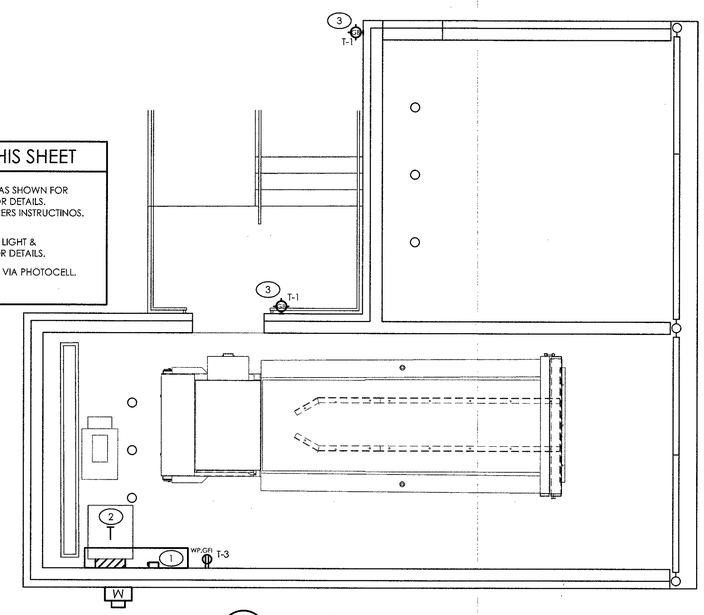
1. PANEL SHALL BE SERVICE ENTRANCE RATED EQUAL TO SQUARE D QO.
2. PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.

PANEL T LOAD SUMMARY

LOAD TYPE		kVA CONN.	DEM. FACT.	kVA DEM.
LOADS ON 60AMP MCB				
LIGHTS (CONN. LOAD)		0.1	1.25	0.1
RECEPTACLES	1st 10 kVA	0.2	1.0	0.2
	REMAINDER	0.0	0.5	0.0
	TOTALS	0.3		0.3
TOTAL AMPS @ 208 V 3 PHASE			0.9	

TAGGED NOTES - THIS SHEET

1. PROVIDE DISCONNECT & POWER AS SHOWN FOR TRASH COMPACTOR. SEE RISER FOR DETAILS. CONFIRM REQ'S W/ MANUFACTURERS INSTRUCTINOS. FINALL CONNECTIONS BY E.C..
2. PROVIDE LOAD CENTER FOR AREA LIGHT & RECEPTACLE CIRCUIT. SEE RISER FOR DETAILS.
3. EXTERIOR LIGHT FIXTURE CIRCUITED VIA PHOTOCELL. SEE PANEL SCHEDULE.



1 ELEC. POWER PLAN - TRASH COMPACTOR
SCALE: 1/4" = 1'-0"

1. All drawings are to be coordinated with all site information by owner and contractor, and applicable codes.
2. Contractor is to notify architect immediately of conditions or items varying from depicted information.
3. Planworx Architecture, P.A. is not responsible for constructed variations from the information depicted.
4. Planworx Architecture, P.A. will not assume any liability for expenses associated with errors and omissions on these drawings unless offset by verified construction savings as a result of planworx architecture, p.A. Design.
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ZACK L. TOMLIN LICENSE No.79002 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/3/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

MAPLE ENGINEERING, PLLC
708 ST. MARYS ST RALEIGH, NC 27605 P:919-341-4247 LIC.#: P-0990 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL COMPACTOR PLANS
SHEET NUMBER: E3.20

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PANEL H LOAD SUMMARY

LOAD TYPE		kVA CONN.	DEM. FACT.	kVA DEM.
LOADS ON 300 AMP FUSED DISC. @ METER				
LIGHTS (CONN. LOAD)		5.3	1.25	6.6
RECEPTACLES	1st 10 kVA	11.2	1.0	11.2
	REMAINDER	2.4	0.5	1.2
HVAC & R	ELEC HEAT	0.0	1.0	0.0
	LARGEST MOTOR	3.0	1.25	3.8
	REMAINDER	8.0	1.0	8.0
ELEVATOR (# OF ELEVATORS: 1)		45.7	1.0	45.7
UNIT HEATERS		1.5	1.25	1.9
	TOTALS	77.1	[redacted]	78.4
TOTAL AMPS @ 208 V 3 PHASE		217.5		

NOTE:
E.C. TO REVIEW ELEVATOR SUBMITTAL BEFORE BEGINNING WORK.

PANEL: H

					EXT. STORAGE 1ST FLOOR								3 PHASE, 4 WIRE	
	VOLTAGE: 208Y/120V												SURFACE MOUNTED	
	AMPS: 400-MLO				LOAD PER PHASE								NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A	B	C	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
#4,PC,LO	LTS:CORRIDOR/EMG	1	12	20	1	1.5 / 0			2	-	-	1	SPACE	
	LTS: ELEV/EXT STORAGE	1	12	20	3		1.4 / 1.2		4	20	12	1	REC: EXTERIOR SERVICE	
	LTS: ELEVATOR SHAFT	1	12	20	5			0.2 / 0.2	6	20	12	1	FACP	#3,LO
	LTS: ELEVATOR CAB	1	12	20	7	0.4 / 0.2			8	20	12	1	4G DIALER	#3,LO
	REC:ELEVATOR SHAFT	1	12	20	9		0.4 / 0.5		10	20	12	1	LTS/REC: SPRINKLER/EXT	
	SUMP PUMP PANEL	1	12	20	11			0.2 / 1.0	12	20	12	1	REC: SECURITY/CAMERAS	#10
#10	REC:TELE/DATA BOARD	1	12	20	13	1.0 / 1.0			14	20	12	1	REC: TELE/DATA BOARD	#10
C	LTS: BUILDING	1	12	20	15		0.8 / 0		16	-	-	1	SPACE	
#9, C	LTS: SITE/POLE PARKING	1	12	20	17			0.5 / 0	18	20	-	1	SPARE	
#9, C	LTS: SITE/POLE PARKING	1	12	20	19	0.5 / 0			20	20	-	1	SPARE	
#9, C	LTS: SITE/POLE PARKING	1	12	20	21		0.5 / 0		22	20	-	1	SPARE	
#5	ELEVATOR	3	1	300	23			15.3 / 0	24	20	-	1	SPARE	
					25	15.2 / 7.7			26	60	6	3	PANEL S	
					27		15.2 / 6.0		28					
	SPACE	1	-	-	29			0 / 6.2	30					
						27.5	26.0	23.6						
	TOTAL CONNECTED kVA:					77.1			DEMAND kVA:				78.4	
	PANEL RMS SYM. AMPS:					SEE RISER			DEMAND AMPS:				217.5	

1. PANEL SHALL BE EQUAL TO SQUARE D NQ.
2. LO - INDICATES LOCK-ON ATTACHMENT REQUIRED
3. CIRCUIT BREAKER SHALL HAVE RED IDENTIFICATION AND INCLUDE LOCK-ON ATTACHMENT. BREAKER TO BE LOCKED IN ON POSITION. NEC 760.41
4. WIRE PORTION OF CIRCUIT TO (2) EMERGENCY LIGHTING INVERTERS. SEE RISER.
5. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.
6. L - INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE DISCONNECT)
7. PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.
8. C - CIRCUIT THROUGH LIGHTING CONTACTOR CONTROLLED VIA PHOTOCELL. SEE DETAIL
9. NOT ALL CIRCUITS MAY BE PRESENT. COORDINATE WITH GC AND SITE LIGHTING INSTALL.
10. CIRCUIT THROUGH EXTERNAL SURGE PROTECTION DEVICE. SEE RISER DIAGRAM.

NOTE:
SEE VOLTAGE DROP SCHEDULE BELOW FOR WIRE SIZING ADJUSTMENT DUE TO CIRCUIT LENGTH. SHOWN WIRE SIZES IN PNL SCH ARE MINIMUMS (COPPER WIRE).

PANEL: S

					EXT. STORAGE 4TH FLOOR								3 PHASE, 4 WIRE	
	VOLTAGE: 208Y/120V												SURFACE MOUNTED	
	AMPS: 60-MLO				LOAD PER PHASE								NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A	B	C	CKT #	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
#4,PC,LO	LTS: EXT/CORR/EMG 3&4 FLR	1	12	20	1	1.5 / 1.2			2	20	12	1	REC: HVAC SERVICE	
	LTS/REC: ELEV/STORAGE 3&4	1	12	20	3		1.0 / 0.5		4	20	12	1	REC:CORRIDOR	
	REC: HVAC SERVICE	1	12	20	5			1.0 / 0.2	6	20	12	1	FA BATTERY EXTENDER	#3,LO
L	UH-3	1	12	20	7	1.5 / 1.5			8	30	10	2	AH-10/HP-10	
#7	REC: TELE/DATA BOARD	1	12	20	9		1.0 / 1.5		10					
#7	REC: TELE/DATA BOARD	1	12	20	11			1.0 / 2.0	12	20	12	1	AH-11A/HP-11A	
	SPARE	1	-	20	13	0 / 2.0			14	20	12	1	AH-11B/HP-11B	
	SPARE	1	-	20	15		0 / 2.0		16	20	12	1	AH-11C/HP-11C	
	SPARE	1	-	20	17			0 / 2.0	18	20	12	1	AH-11D/HP-11D	
						7.7	6.0	6.2						
	TOTAL CONNECTED kVA:					19.9			DEMAND kVA:				21.4	
	PANEL RMS SYM. AMPS:					SEE RISER			DEMAND AMPS:				59.4	

1. PANEL SHALL BE EQUAL TO SQUARE D NQ.
2. LO - INDICATES LOCK-ON ATTACHMENT REQUIRED
3. CIRCUIT BREAKER SHALL HAVE RED IDENTIFICATION AND INCLUDE LOCK-ON ATTACHMENT. BREAKER TO BE LOCKED IN ON POSITION. NEC 760.41
4. WIRE PORTION OF CIRCUIT TO (2) EMERGENCY LIGHTING INVERTERS. SEE RISER.
5. PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.
6. L - INDICATES LOCK-OFF ATTACHMENT REQUIRED (ATTACHMENT TO MEET NEC REQ'S FOR APPLIANCE DISCONNECT)
7. CIRCUIT THROUGH EXTERNAL SURGE PROTECTION DEVICE. SEE RISER DIAGRAM.

PANEL S LOAD SUMMARY

LOAD TYPE		kVA CONN.	DEM. FACT.	kVA DEM.
LOADS ON 60 AMP BREAKER @ PANEL H				
LIGHTS (CONN. LOAD)		1.5	1.25	1.9
RECEPTACLES	1st 10 kVA	5.9	1.0	5.9
	REMAINDER	0.0	0.5	0.0
HVAC & R	ELEC HEAT	0.0	1.0	0.0
	LARGEST MOTOR	3.0	1.25	3.8
	REMAINDER	8.0	1.0	8.0
UNIT HEATER		1.5	1.25	1.9
	TOTALS	19.9	[redacted]	21.4
TOTAL AMPS @ 208 V 3 PHASE		59.4		

REVISION
OCT 15 2019
RESUBMIT

REVIEWED FOR
ELECTRICIAL CODE COMPLIANCE
WITH THE CAPE CORAL
BUILDING DIVISION
BY ____ DATE DEC 05 2019
ALL ELECTRICIAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE, LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

ZACK L. TOMLIN
LICENSE
No.79002
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/9/19

VOLTAGE DROP SCHEDULE

RUN DISTANCE (FT)	WIRE SIZE (COPPER AWG)
120V BRANCH CIRCUITS UP TO 8 AMPS (1 KVA)	
1' TO 120'	#12
121' TO 190'	#10
191' TO 300'	#8
301' TO 470'	#6
120V BRANCH CIRCUITS 9 AMPS TO 16 AMPS (1 - 1.7 KVA)	
RUN DISTANCE (FT)	WIRE SIZE (COPPER AWG)
1' TO 65'	#12
66' TO 110'	#10
111' TO 170'	#8
171' TO 270'	#6

NOTE:
WIRE SIZES INDICATED IN GENERAL NOTES AND CONNECTIONS SCHEDULES ARE MINIMUM WIRE SIZES. CONTRACTOR SHALL UPSIZE WIRES BASED ON LOAD AND LENGTH OF RUN AS INDICATED IN SCHEDULE ABOVE.

METER CENTER LOAD SUMMARY(SERVICE 1 OF 3)

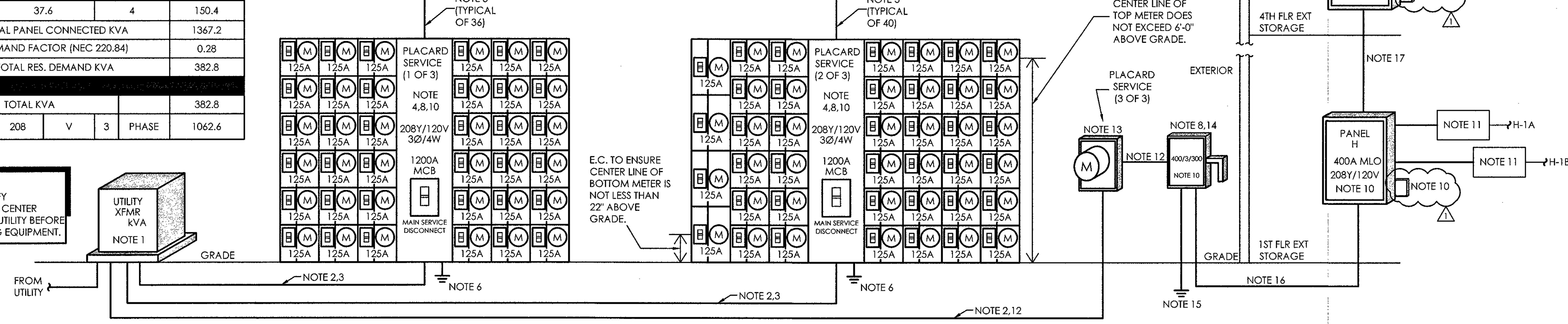
UNIT#/ PANEL	CONNECTED KVA PER PANEL	# OF PANELS			TOTAL KVA FOR PANEL TYPE
A1	33.4	12			400.8
B1	34.3	12			411.6
B2	34.3	4			137.2
C1	37.9	4			151.6
C2	37.6	4			150.4
TOTAL PANEL CONNECTED KVA					1251.6
DEMAND FACTOR (NEC 220.84)					0.30
TOTAL RES. DEMAND KVA					375.5
[redacted]					
TOTAL KVA					375.5
TOTAL AMPS @	208	V	3	PHASE	1042.2

METER CENTER LOAD SUMMARY(SERVICE 2 OF 3)

UNIT#/ PANEL	CONNECTED KVA PER PANEL	# OF PANELS			TOTAL KVA FOR PANEL TYPE
A1	33.4	20			668.0
B1	34.3	12			411.6
B2	34.3	4			137.2
C2	37.6	4			150.4
TOTAL PANEL CONNECTED KVA					1367.2
DEMAND FACTOR (NEC 220.84)					0.28
TOTAL RES. DEMAND KVA					382.8
[redacted]					
TOTAL KVA					382.8
TOTAL AMPS @	208	V	3	PHASE	1062.6

NOTE:
PROVIDE IDENTIFICATION DIRECTORY THAT COMPLIES WITH NEC 230.2(E) FOR EACH ELECTRICAL SERVICE.

NOTE:
E.C. TO VERIFY TXMR/METER CENTER PAIRING W/ UTILITY BEFORE PURCHASING EQUIPMENT.



APARTMENT FEEDER CHART.

MAX. DISTANCE	MIN. WIRING SIZE (ALUM. SER CABLE)
125'	(3) #1/0, #4 GND
160'	(3) #2/0, #4 GND
200'	(3) #3/0, #4 GND
225'	(3) #4/0, #4 GND
275'	(3) #250, #4 GND
*DISTANCE IS ACTUAL FEEDER LENGTH FROM METER CENTER TO APARTMENT PANEL	

1 ELECTRICAL POWER RISER

NO SCALE

RISER DIAGRAM NOTES:
1. PAD MOUNTED TRANSFORMER BY UTILITY.
2. SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C.. CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK.
3. (4) SETS OF (4)#500 kcmil ALUM, 3" CONDUIT.
4. METER CENTER EQUAL TO SQUARE D EZ SERIES W/ BREAKERS AS SHOWN. U.L. APPROVED RINGLESS METER SOCKETS. METERS BY UTILITY. NEMA 3R.
5. SER CABLE TO APARTMENT PANEL. SEE FEEDER CHART FOR SIZING BASED ON TOTAL LENGTH.
6. #3/0 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
7. PROVIDE ENGRAVED PLACARD AT PANEL(S)/DISCONNECT(S) INDICATING APARTMENT NUMBER OR PANEL SERVED.
8. PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
9. PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
10. UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 65,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED. IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED BREAKERS/FUSES.
11. EMERGENCY LIGHTING INVERTER WITH BATTERY BACK-UP EQUAL TO MYERS "ILLUMINATOR LVM 225VA". 225 WATT MODEL. SWITCHED INPUT. SEE DETAIL FOR MORE INFORMATION.
12. (4)#500kcmil ALUM, 3" CONDUIT.
13. 400A METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
14. SERVICE ENTRANCE RATED WEATHERPROOF DISCONNECT SIZED AND FUSED AS INDICATED.
15. #2 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
16. (4)#500kcmil ALUM, #2 ALUM GND, 3-1/2" CONDUIT.
17. (4)#6 CU, #10 CU GND, 1" CONDUIT.
18. SURGE PROTECTION DEVICE.

INVERTER "H-1A" CALC

FIXTURE	QTY	WATTAGE	TOTAL
BL	8	15	120
EXIT SIGN	10	1.2	12
		TOTAL	132

INVERTER "S-1A" CALC

FIXTURE	QTY	WATTAGE	TOTAL
BL	8	15	120
EXIT SIGN	10	1.2	12
		TOTAL	132

INVERTER "H-1B" CALC

FIXTURE	QTY	WATTAGE	TOTAL
BL	8	15	120
EXIT SIGN	8	1.2	10
		TOTAL	130

INVERTER "S-1B" CALC

FIXTURE	QTY	WATTAGE	TOTAL
BL	8	15	120
EXIT SIGN	8	1.2	10
		TOTAL	130

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SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

MAPLE
ENGINEERING, PLLC
FL COA #: 3316
708 ST. MARYS ST
RALEIGH, NC 27605 LIC.#: P-0990
P:919-341-4247 F:919-890-3797
PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE:
ELECTRICAL PANEL SCHEDULE & RISER
SHEET NUMBER:
E4.01

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10/8/2019 6:37 PM
PLX-1906-E401.DWG

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2. Contractor is to notify architect immediately of conditions or items varying from depicted information. 4. Planworx Architecture, P.A. will not assume any liability for expenses associated with errors and omissions on these drawings unless offset by verified construction savings as a result of planworx architecture, p.A. Design. 6. Planworx Architecture, P.A. is not responsible for estimating, maintaining, or regulating construction costs associated with these plans.
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REVIEWED FOR
ELECTRICIAL CODE COMPLIANCE
WITH THE CAPE CORAL
BUILDING DIVISION
BY ________ DATE DEC 0 5 2019
ALL ELECTRICIAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE/LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

REVISION
OCT 15 2019
RESUBMIT

		BEDROOM #1												1 PHASE, 3 WIRE	
	VOLTAGE: 208/120V	PANEL: C2												FLUSH MOUNTED	
	AMPS: 125-MLO					LOAD PER PHASE								NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A		B		CKT#	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
	REC: BATHROOMS	1	12	20	1	0.3	1.5			2	20	12	1	DISHWASHER	GFI,AFI
AFI	LTS/REC: BEDROOM#2	1	14	15	3			1.1	1.5	4	20	12	1	GARBAGE DISPOSAL	AFI
AFI	LTS/REC: LAUNDRY/BATH	1	14	15	5	0.8	4			6	50	6	2	OVEN/RANGE	#5,6
AFI	LTS/REC: BEDROOM#1/PAT	1	14	15	7			1.0	4	8					
AFI	LTS/REC: BEDROOM#3/HALL	1	14	15	9	1.0	1.0			10	20	12	1	MICROWAVE	#7,AFI
AFI	REC: KITCHEN/DINING	1	12	20	11			0.6	1.0	12	20	12	1	WASHER	GFI,AFI
AFI	REC: KITCHEN	1	12	20	13	0.9	2.5			14	30	10	2	DRYER	
AFI	LTS/REC: LIVING/KITCHEN	1	14	15	15			1.3	2.5	16					
	AIR HANDLER	2	8	40	17	3.0	2.3			18	30	10	2	WATER HEATER	
					19			3.0	2.2	20					
	HEAT PUMP	2	10	25	21	1.4	0			22	-	-	1	SPACE	
					23			1.4	0	24	-	-	1	SPACE	
						18.7		19.6							
	TOTAL CONNECTED kVA:					38.3				DEMAND kVA:				24.0	
	PANEL RMS SYM. AMPS:					SEE RISER				DEMAND AMPS:				115.5	

1. PANEL SHALL BE EQUAL TO SQUARE D QO.
2. AFI - PROVIDE ARC FAULT CIRCUIT INTERRUPTER BREAKER FOR CIRCUIT.
3. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
4. GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.
5. BRANCH CIRCUIT MAY BE #4 ALUM SER CABLE W/ #8 ALUM GND IN LIEU OF COPPER.
6. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.
7. NOT PRESENT IN ADA UNITS.

		BEDROOM #1												1 PHASE, 3 WIRE	
	VOLTAGE: 208/120V	PANEL: C1												FLUSH MOUNTED	
	AMPS: 125-MLO					LOAD PER PHASE								NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A		B		CKT#	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
	REC: BATHROOMS	1	12	20	1	0.3	1.5			2	20	12	1	DISHWASHER	GFI,AFI
AFI	LTS/REC: BEDROOM#2/PAT	1	14	15	3			1.1	1.5	4	20	12	1	GARBAGE DISPOSAL	AFI
AFI	LTS/REC: LAUN/BATH/HALL	1	14	15	5	0.8	4			6	50	6	2	OVEN/RANGE	#5,6
AFI	LTS/REC: BEDROOM#1/BATH	1	14	15	7			1.0	4	8					
AFI	LTS/REC:DEN	1	14	15	9	1.0	1.0			10	20	12	1	MICROWAVE	AFI
AFI	REC: KITCHEN/DINING	1	12	20	11			0.6	1.0	12	20	12	1	WASHER	GFI,AFI
AFI	REC: KITCHEN	1	12	20	13	0.9	2.5			14	30	10	2	DRYER	
AFI	LTS/REC: LIVING/KITCHEN	1	14	15	15			1.3	2.5	16					
	AIR HANDLER	2	8	40	17	3.0	2.3			18	30	10	2	WATER HEATER	
					19			3.0	2.2	20					
	HEAT PUMP	2	10	25	21	1.4	0			22	-	-	1	SPACE	
					23			1.4	0	24	-	-	1	SPACE	
						18.7		19.6							
	TOTAL CONNECTED kVA:					38.3				DEMAND kVA:				24.2	
	PANEL RMS SYM. AMPS:					SEE RISER				DEMAND AMPS:				116.2	

1. PANEL SHALL BE EQUAL TO SQUARE D QO.
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3. PROVIDE HACR BREAKERS FOR HVAC & REFRIGERATION EQUIPMENT.
4. GFI - PROVIDE GFCI BREAKER FOR CIRCUIT. GFCI RECEPTACLES MAY BE USED IN LIEU OF GFCI BREAKERS SO LONG AS THE DEVICE(S) CONFORM TO NEC CODE REQUIREMENTS FOR GFCI PROTECTION & ACCESSIBILITY.
5. BRANCH CIRCUIT MAY BE #4 ALUM SER CABLE W/ #8 ALUM GND IN LIEU OF COPPER.
6. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.

		BEDROOM #2												1 PHASE, 3 WIRE	
	VOLTAGE: 208Y/120V	PANEL: B2												FLUSH MOUNTED	
	AMPS: 125-MLO					LOAD PER PHASE								NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A		B		CKT#	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
	REC: BATHROOMS	1	12	20	1	0.3	1.5			2	20	12	1	DISHWASHER	GFI,AFI
AFI	LTS/REC: BEDROOM#2/PAT	1	14	15	3			1.1	1.5	4	20	12	1	GARBAGE DISPOSAL	AFI
AFI	LTS/REC: LAUNDRY/BATH	1	14	15	5	0.8	4			6	50	6	2	OVEN/RANGE	#5,6
AFI	LTS/REC: BEDROOM#1/STOR	1	14	15	7			1.0	4	8					
	SPACE	1	-	-	9	0	1.0			10	20	12	1	MICROWAVE	#7,AFI
AFI	REC: KITCHEN/DINING	1	12	20	11			0.6	1.0	12	20	12	1	WASHER	GFI,AFI
AFI	REC: KITCHEN	1	12	20	13	0.9	2.5			14	30	10	2	DRYER	
AFI	LTS/REC: LIVING/KITCHEN	1	14	15	15			1.3	2.5	16					
	AIR HANDLER	2	10	30	17	2.9	2.3			18	30	10	2	WATER HEATER	
					19			2.9	2.2	20					
	HEAT PUMP	2	12	20	21	1.2	0			22	-	-	1	SPACE	
					23			1.1	0	24	-	-	1	SPACE	
						17.4		19.2							
	TOTAL CONNECTED kVA:					36.6				DEMAND kVA:				22.0	
	PANEL RMS SYM. AMPS:					SEE RISER				DEMAND AMPS:				105.8	

1. PANEL SHALL BE EQUAL TO SQUARE D QO.
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5. BRANCH CIRCUIT MAY BE #4 ALUM SER CABLE W/ #8 ALUM GND IN LIEU OF COPPER.
6. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.
7. NOT PRESENT IN ADA UNITS.

		BEDROOM #1												1 PHASE, 3 WIRE	
	VOLTAGE: 208Y/120V	PANEL: B1												FLUSH MOUNTED	
	AMPS: 125-MLO					LOAD PER PHASE								NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A		B		CKT#	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
	REC: BATHROOMS	1	12	20	1	0.3	1.5			2	20	12	1	DISHWASHER	GFI,AFI
AFI	LTS/REC: BEDRM#2/BATH#2	1	14	15	3			1.1	1.5	4	20	12	1	GARBAGE DISPOSAL	AFI
AFI	LTS/REC: LAUNDRY/BATH #1	1	14	15	5	0.8	4			6	50	6	2	OVEN/RANGE	#5,6
AFI	LTS/REC: BEDROOM#1/PAT	1	14	15	7			1.0	4	8					
	SPACE	1	-	-	9	0	1.0			10	20	12	1	MICROWAVE	AFI
AFI	REC: KITCHEN/DINING	1	12	20	11			0.6	1.0	12	20	12	1	WASHER	GFI,AFI
AFI	REC: KITCHEN	1	12	20	13	0.9	2.5			14	30	10	2	DRYER	
AFI	LTS/REC: LIVING/KITCHEN	1	14	15	15			1.3	2.5	16					
	AIR HANDLER	2	10	30	17	2.9	2.3			18	30	10	2	WATER HEATER	
					19			2.9	2.2	20					
	HEAT PUMP	2	12	20	21	1.2	0			22	-	-	1	SPACE	
					23			1.1	0	24	-	-	1	SPACE	
						17.4		19.2							
	TOTAL CONNECTED kVA:					36.6				DEMAND kVA:				22.0	
	PANEL RMS SYM. AMPS:					SEE RISER				DEMAND AMPS:				105.8	

1. PANEL SHALL BE EQUAL TO SQUARE D QO.
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6. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.

		BEDROOM												1 PHASE, 3 WIRE	
	VOLTAGE: 208Y/120V	PANEL: A1												FLUSH MOUNTED	
	AMPS: 125-MLO					LOAD PER PHASE								NEMA 1	
	-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	A		B		CKT#	BRK SIZE	WIRE SIZE	POLE	-DESCRIPTION-	
	REC: BATHROOM	1	12	20	1	0.3	1.5			2	20	12	1	DISHWASHER	GFI,AFI
AFI	LTS/REC: BEDROOM #1	1	14	15	3			1.1	1.5	4	20	12	1	GARBAGE DISPOSAL	AFI
AFI	LTS/REC: LAUNDRY/BATH	1	14	15	5	0.8	4			6	50	6	2	OVEN/RANGE	#5,6
	SPACE	1	-	-	7			0	4	8					
	SPACE	1	-	-	9	0	1.0			10	20	12	1	MICROWAVE	#7,AFI
AFI	REC: KITCHEN/DINING	1	12	20	11			0.6	1.0	12	20	12	1	WASHER	GFI,AFI
AFI	REC: KITCHEN	1	12	20	13	0.9	2.5			14	30	10	2	DRYER	
AFI	LTS/REC: LIVING/KITCHEN	1	14	15	15			1.3	2.5	16					
	AIR HANDLER	2	10	30	17	2.5	2.3			18	30	10	2	WATER HEATER	
					19			2.5	2.2	20					
	HEAT PUMP	2	12	20	21	1.0	0			22	-	-	1	SPACE	
					23			1.0	0	24	-	-	1	SPACE	
						16.8		17.7							
	TOTAL CONNECTED kVA:					34.5				DEMAND kVA:				21.6	
	PANEL RMS SYM. AMPS:					SEE RISER				DEMAND AMPS:				104.0	

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5. BRANCH CIRCUIT MAY BE #4 ALUM SER CABLE W/ #8 ALUM GND IN LIEU OF COPPER.
6. VERIFY BREAKER AND WIRE SIZE REQUIREMENTS WITH EQUIPMENT NAMEPLATE BEFORE BEGINNING WORK.
7. NOT PRESENT IN ADA UNITS.

LOAD SUMMARY - RESIDENTIAL				
NEC SECTION 220				
PANEL: C2				
GENERAL LOAD			kVA CONN.	
LIGHTS & RECEPTACLES	@ 3VA PER SQFT	1192 SQFT	3.6	
SMALL APPLIANCES & LAUNDRY	@ 1500VA PER CIRCUIT	2 # CIRCUITS	3.0	
ELECTRIC CLOTHES DRYER			5.0	
WASHER			1.0	
RANGE			8.0	
DISHWASHER			1.5	
DISPOSAL			1.5	
WATER HEATER			4.5	
MICROWAVE (DEDICATED)			1.0	
TOTAL GENERAL LOAD			29.1	
DEMAND LOAD		kVA CONN.	DEM. FACT.	kVA DEM.
FIRST 10 kVA GENERAL LOAD @ 100%		10.0	1.0	10.0
REMAINDER OF GENERAL LOAD @ 40%		19.1	0.4	7.6
HVAC LOAD (NEC SEC 220.82-C) / HEAT PUMP COMPRESSOR		2.5	1.0	2.5
HEAT PUMP ELECTRIC HEAT		6.0	0.65	3.9
TOTALS		37.6		24.0
TOTAL AMPS @ 208 V 1 PHASE		115.5		

LOAD SUMMARY - RESIDENTIAL				
NEC SECTION 220				
PANEL: C1				
GENERAL LOAD			kVA CONN.	
LIGHTS & RECEPTACLES	@ 3VA PER SQFT	1305 SQFT	3.9	
SMALL APPLIANCES & LAUNDRY	@ 1500VA PER CIRCUIT	2 # CIRCUITS	3.0	
ELECTRIC CLOTHES DRYER			5.0	
WASHER			1.0	
RANGE			8.0	
DISHWASHER			1.5	
DISPOSAL			1.5	
WATER HEATER			4.5	
MICROWAVE (DEDICATED)			1.0	
TOTAL GENERAL LOAD			29.4	
DEMAND LOAD		kVA CONN.	DEM. FACT.	kVA DEM.
FIRST 10 kVA GENERAL LOAD @ 100%		10.0	1.0	10.0
REMAINDER OF GENERAL LOAD @ 40%		19.4	0.4	7.8
HVAC LOAD (NEC SEC 220.82-C) / HEAT PUMP COMPRESSOR		2.5	1.0	2.5
HEAT PUMP ELECTRIC HEAT		6.0	0.65	3.9
TOTALS		37.9		24.2
TOTAL AMPS @ 208 V 1 PHASE		116.2		

LOAD SUMMARY - RESIDENTIAL				
NEC SECTION 220				
PANEL: B2				
GENERAL LOAD			kVA CONN.	
LIGHTS & RECEPTACLES	@ 3VA PER SQFT	977 SQFT	2.9	
SMALL APPLIANCES & LAUNDRY	@ 1500VA PER CIRCUIT	2 # CIRCUITS	3.0	
ELECTRIC CLOTHES DRYER			5.0	
WASHER			1.0	
RANGE			8.0	
DISHWASHER			1.5	
DISPOSAL			1.5	
WATER HEATER			4.5	
MICROWAVE (DEDICATED)			1.0	
TOTAL GENERAL LOAD			28.4	
DEMAND LOAD		kVA CONN.	DEM. FACT.	kVA DEM.
FIRST 10 kVA GENERAL LOAD @ 100%		10.0	1.0	10.0
REMAINDER OF GENERAL LOAD @ 40%		18.4	0.4	7.4
HVAC LOAD (NEC SEC 220.82-C) / HEAT PUMP COMPRESSOR		2.3	1.0	2.3
HEAT PUMP ELECTRIC HEAT		3.6	0.65	2.3
TOTALS		34.3		22.0
TOTAL AMPS @ 208 V 1 PHASE		105.8		

LOAD SUMMARY - RESIDENTIAL				
NEC SECTION 220				
PANEL: B1				
GENERAL LOAD			kVA CONN.	
LIGHTS & RECEPTACLES	@ 3VA PER SQFT	965 SQFT	2.9	
SMALL APPLIANCES & LAUNDRY	@ 1500VA PER CIRCUIT	2 # CIRCUITS	3.0	
ELECTRIC CLOTHES DRYER			5.0	
WASHER			1.0	
RANGE			8.0	
DISHWASHER			1.5	
DISPOSAL			1.5	
WATER HEATER			4.5	
MICROWAVE (DEDICATED)			1.0	
TOTAL GENERAL LOAD			28.4	
DEMAND LOAD		kVA CONN.	DEM. FACT.	kVA DEM.
FIRST 10 kVA GENERAL LOAD @ 100%		10.0	1.0	10.0
REMAINDER OF GENERAL LOAD @ 40%		18.4	0.4	7.4
HVAC LOAD (NEC SEC 220.82-C) / HEAT PUMP COMPRESSOR		2.3	1.0	2.3
HEAT PUMP ELECTRIC HEAT		3.6	0.65	2.3
TOTALS		34.3		22.0
TOTAL AMPS @ 208 V 1 PHASE		105.8		

LOAD SUMMARY - RESIDENTIAL				
NEC SECTION 220				
PANEL: A1				
GENERAL LOAD			kVA CONN.	
LIGHTS & RECEPTACLES	@ 3VA PER SQFT	657 SQFT	2.0	
SMALL APPLIANCES & LAUNDRY	@ 1500VA PER CIRCUIT	2 # CIRCUITS	3.0	
ELECTRIC CLOTHES DRYER			5.0	
WASHER			1.0	
RANGE			8.0	
DISHWASHER			1.5	
DISPOSAL			1.5	
WATER HEATER			4.5	
MICROWAVE (DEDICATED)			1.0	
TOTAL GENERAL LOAD			27.5	
DEMAND LOAD		kVA CONN.	DEM. FACT.	kVA DEM.
FIRST 10 kVA GENERAL LOAD @ 100%		10.0	1.0	10.0
REMAINDER OF GENERAL LOAD @ 40%		17.5	0.4	7.0
HVAC LOAD (NEC SEC 220.82-C) / HEAT PUMP COMPRESSOR		2.3	1.0	2.3
HEAT PUMP ELECTRIC HEAT		3.6	0.65	2.3
TOTALS		33.4		21.6
TOTAL AMPS @ 208 V 1 PHASE		104.0		

10/8/2019 6:37 PM
PLX-1906-E402.DWG

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ZACK L. TOMLIN
LICENSE
No.79002
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/7/19

SURFSIDE CORNER
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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: JNS
CHECKED BY: ZLT
SHEET TITLE: ELECTRICAL PANEL SCHEDULES
SHEET NUMBER: E4.02

EXTERIOR LIGHTING DESIGN CRITERIA			CITY OF CAPE CORAL, FLORIDA LAND DEVELOPMENT CODE ARTICLE 5			
AREA DESCRIPTION			MAXIUMUM INITIAL FOOT-CANDLES	MINIMUM INITIAL FOOT-CANDLES	UNIFORMITY RATIO MAX/MIN	UNIFORMITY RATIO AVG/MIN
PARKING LOT			3.0 FC	0.5 FC	12.0 / 1	4.0 / 1
STATISTICAL CALCULATION AREA ILLUMINANCE						
AREA DESCRIPTION	SYMBOL	AVERAGE INITIAL FOOT-CANDLES	MAXIUMUM INITIAL FOOT-CANDLES	MINIMUM INITIAL FOOT-CANDLES	UNIFORMITY RATIO MAX/MIN	UNIFORMITY RATIO AVG/MIN
GENERAL PARKING	+	1.5 FC	2.9 FC	0.5 FC	7.3 / 1	3.8 / 1

PARKING LIGHTING FIXTURE SCHEDULE

MARK	MANUF.	CATALOG NUMBER	LAMP DATA NO.	LAMP DATA TYPE	VOLTS	BALLAST DATA NO.	BALLAST DATA TYPE	INPUT WATTS	INITIAL LUMENS	IES DISTRIBUTION	MOUNTING	DESCRIPTION
EA	LITHONIA	DSX1-LED-40C-530-30K-T4M-MVOLT-HS	1	LED	MVOLT	1	LED DRIVER	68	8,090	TYPE T4M	20' POLE	SQUARE AREA LIGHT FIXTURE W/ FULL CUT-OFF AND HOUSE-SIDE SHIELD. MOUNTED ON 20' TAPERED SQUARE STEEL POLE. 3000K COLOR TEMP.
EB	LITHONIA	DSX1-LED-40C-530-30K-T4M-MVOLT	1	LED	MVOLT	1	LED DRIVER	68	8,090	TYPE T4M	20' POLE	SQUARE AREA LIGHT FIXTURE W/ FULL CUT-OFF MOUNTED ON 20' TAPERED SQUARE STEEL POLE. 3000K COLOR TEMP.
EC	LITHONIA	DSX1-LED-40C-700-30K-T5M-MVOLT	1	LED	MVOLT	1	LED DRIVER	89	10,790	TYPE T5M	20' POLE	SQUARE AREA LIGHT FIXTURE W/ FULL CUT-OFF MOUNTED ON 20' TAPERED SQUARE STEEL POLE. 3000K COLOR TEMP.

NOTES:
1. W/ PHILIPS GARDCO MODEL #: GTS-20-II-D1-BLP POLE (160+ MPH WIND RATED). POLE COLOR TO BE BLACK.
2. MOUNTING HEIGHT = 20'
3. COLOR TO BE BLACK. POLE AND FIXTURE COLOR TO MATCH.

GENERAL NOTES - THIS SHEET

1. COORDINATE FINAL LIGHT POLE LOCATIONS W/ LANDSCAPE ARCHITECT AND LANDSCAPE PLAN.
2. ALL UNDERGROUND CONDUITS SHALL BE LOCATED AS NECESSARY TO NOT INTERFERE WITH SITE UTILITY (STORM, WATER, SANITARY, ETC.) WORK. COORDINATE WITH SITE UTILITY CONTRACTOR(S).
3. REFER TO VOLTAGE DROP SCHEDULE FOR UPSIZED WIRES BASED ON LOAD AND LENGTH OF RUN.
4. LIGHT POLE BASE TO WITHSTAND WINDS OF 160+ MPH. COORDINATE WITH STRUCTURAL ENGINEER.

TAGGED NOTES - THIS SHEET

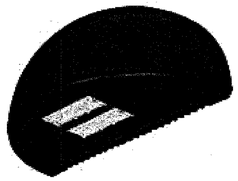
1. 120V/1Ø 20 AMP LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. WIRE TO AREA BUILDING HOUSE PANEL. SEE PANEL SCHEDULE.
2. 120V/1Ø 20 AMP LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. WIRE TO POOL HOUSE PANEL CIRCUIT INDICATED. SEE PANEL SCHEDULE.
3. 120V/1Ø 20 AMP LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. WIRE TO AREA BUILDING HOUSE PANEL. SEE PANEL SCHEDULE.

NOTE:
E.C. TO CONFIRM ALL FIXTURE FINISHES AND COLOR TEMPERATURES WITH ARCHITECT BEFORE PURCHASE.

E.C. TO COORDINATE EXACT PLACEMENT OF ALL BLDG MOUNTED LIGHTS WITH ARCHITECTS AND ELEVATIONS BEFORE BEGINNING WORK.

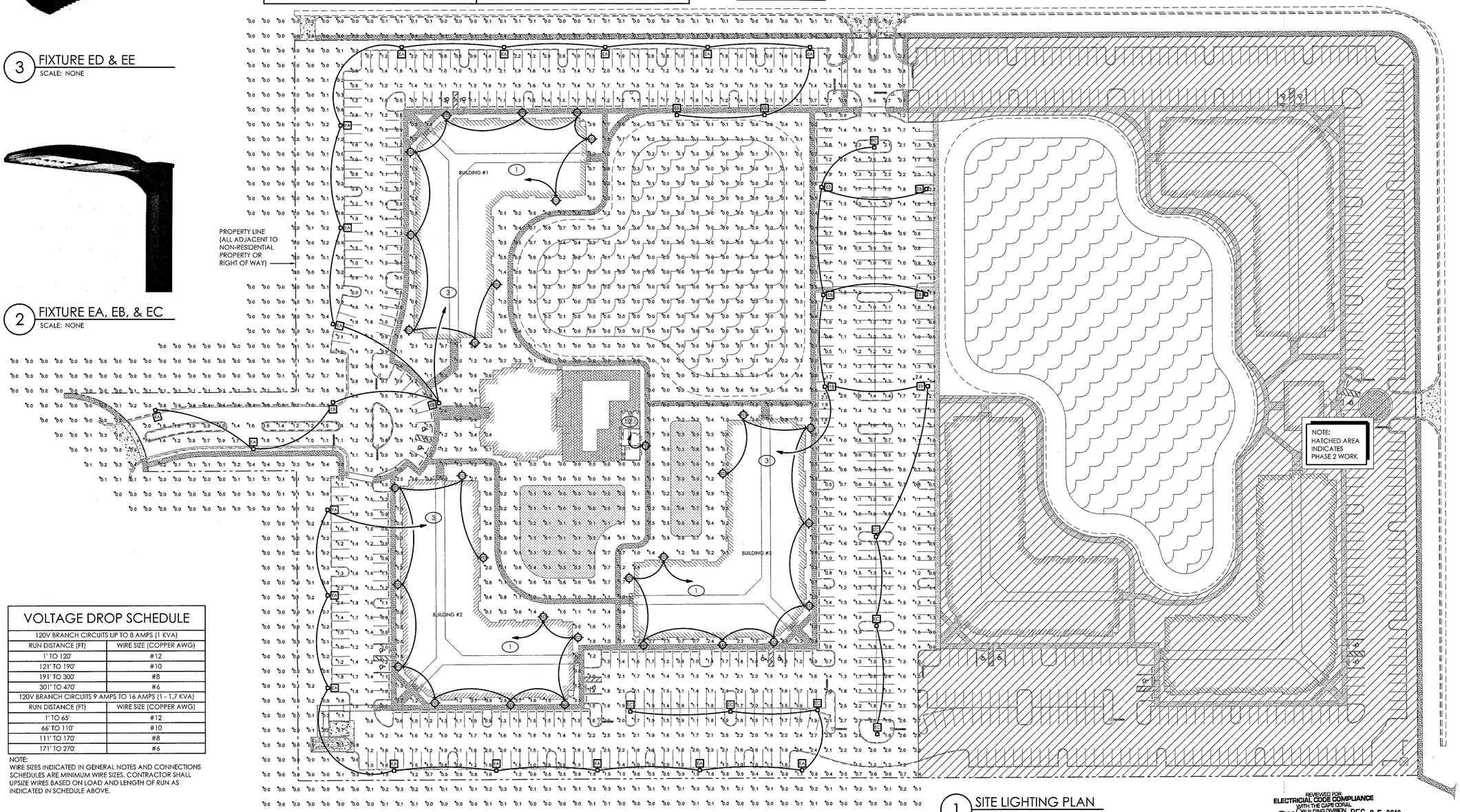
BUILDING LIGHTING FIXTURE SCHEDULE

MARK	MANUF.	CATALOG NUMBER	LAMP DATA NO.	LAMP DATA TYPE	VOLTS	BALLAST DATA NO.	BALLAST DATA TYPE	INPUT WATTS	MOUNTING	DESCRIPTION
ED	LITHONIA	WSQ-LED-P4-SR4-30K-MVOLT	1	LED	MVOLT	1	LED DRIVER	61	WALL 20' MOUNT HEIGHT	LED WALL PACK. WET LOC. & COLD TEMP RATED. 5,991 LUMENS. 3000K TEMP. SR4 DISTRIBUTION. FULL CUT-OFF
PG	LITHONIA	WSQ-LED-P3-SR4-30K-MVOLT	1	LED	MVOLT	1	LED DRIVER	40	WALL 8.5' MOUNT HEIGHT	LED WALL PACK. WET LOC. & COLD TEMP RATED. 4,486 LUMENS. 3000K TEMP. SR4 DISTRIBUTION. FULL CUT-OFF



3 FIXTURE ED & EE
SCALE: NONE

2 FIXTURE EA, EB, & EC
SCALE: NONE



1 SITE LIGHTING PLAN
SCALE: 1" = 50'-0"

VOLTAGE DROP SCHEDULE

120V BRANCH CIRCUITS UP TO 8 AMPS (1 KVA)	
RUN DISTANCE (FT)	WIRE SIZE (COPPER AWG)
1' TO 120'	#12
121' TO 190'	#10
191' TO 300'	#8
301' TO 470'	#6
120V BRANCH CIRCUITS 9 AMPS TO 16 AMPS (1 - 1.7 KVA)	
RUN DISTANCE (FT)	WIRE SIZE (COPPER AWG)
1' TO 65'	#12
66' TO 110'	#10
111' TO 170'	#8
171' TO 270'	#6

NOTE:
WIRE SIZES INDICATED IN GENERAL NOTES AND CONNECTIONS SCHEDULES ARE MINIMUM WIRE SIZES. CONTRACTOR SHALL UPSIZE WIRES BASED ON LOAD AND LENGTH OF RUN AS INDICATED IN SCHEDULE ABOVE.

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REVIEWED FOR ELECTRICAL CODE COMPLIANCE WITH THE CAPE CORAL BUILDING DIVISION
BY _____ DATE DEC 05 2019
ALL ELECTRICAL INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, STATE, LOCAL AND THE NEC CODES. THE GRANTING OF A PERMIT DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL CODES AND ORDINANCES.

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JACK L. TOMLIN LICENSE No. 75002 STATE OF FLORIDA PROFESSIONAL ENGINEER
10/7/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

MAPLE ENGINEERING, PLLC
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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19			
REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: DWB
CHECKED BY: ZLT
SHEET TITLE: SITE LIGHTING PLAN
SHEET NUMBER: E5.01

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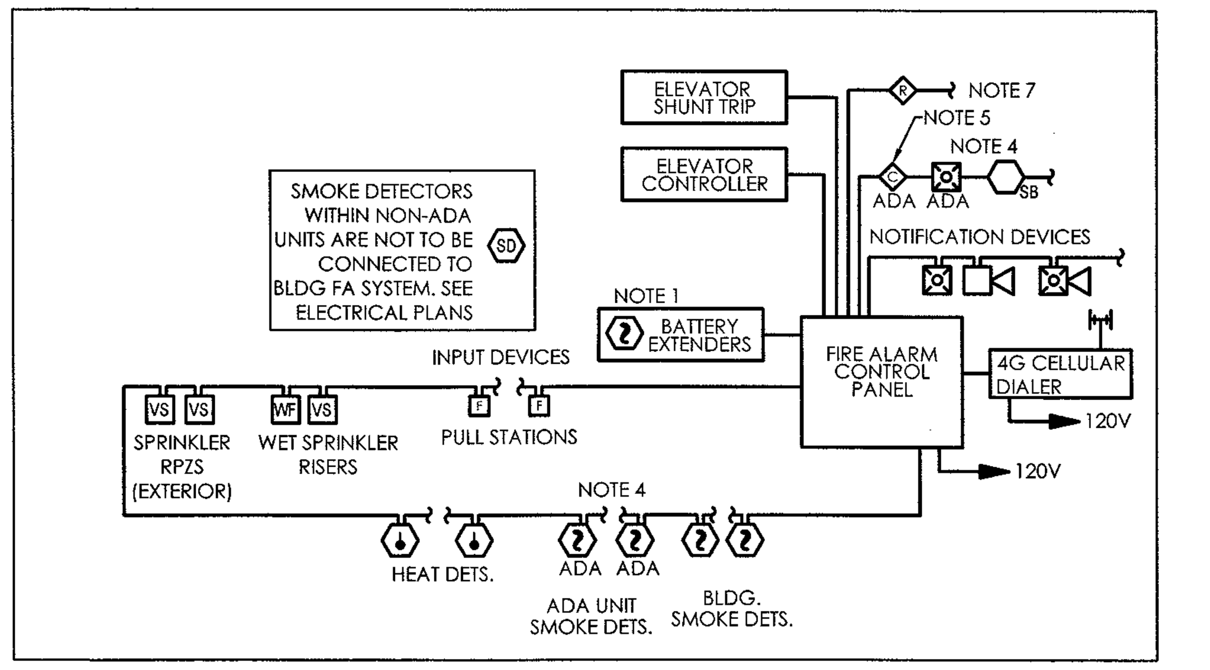
PLX-1906-E501.DWG

10/8/2019 6:37 PM
PLX-1906-FA001.DWG



RISER NOTES:

1. FIRE ALARM CONTROL PANEL TO BE EQUAL TO FIRE-LITE MS9200UDLS W/ FIRE-LITE IPGSM-4G DIGITAL CELLULAR FIRE COMMUNICATOR W/ BATTERY BACK-UP (POWER AND TELECOM LINES FOR DEVICE MUST BE IN CONDUIT. SEE MANUFACTURER'S INSTRUCTIONS). PROVIDE FCPS24-FS8 POWER SUPPLIES AS REQUIRED. ENSURE SMOKE DETECTOR IS PROVIDED AT ALL BATTERY EXTENDER PANELS.
2. ENSURE ALL DEVICES/APPLIANCES USED ARE COMPATIBLE WITH FACP. PROVIDE ALL PROGRAMMING AND FINAL CONNECTION BY A FACTORY TRAINED TECHNICIAN.
3. RISER IS GENERIC IN NATURE SEE PLAN FOR EXACT DEVICE LAYOUT AND QUANTITY.
4. MAP ADA UNIT SMOKE DETECTORS TO CORRESPONDING UNIT CONTROL MODULE. WHEN SMOKE IS DETECTED IN AN ADA UNIT ONLY NOTIFICATION DEVICES IN THAT SPECIFIC UNIT ARE TO ACTIVATE.
5. CONTROL MODULE TO ACTIVATE ADA UNIT NOTIFICATION APPLIANCES UPON GENERAL BUILDING ALARM AND DETECTION OF SMOKE WITHIN INDIVIDUAL UNIT.
6. ALL DEVICES IN SLEEPING AREAS AND APARTMENT UNITS, INCLUDING LIVING ROOMS, TO BE LOW FREQUENCY TYPE.
7. RELAY(S) FOR DOOR HOLDERS. SEE PLANS.

2 FIRE ALARM RISER DIAGRAM (TYPICAL OF MULTIPLE BUILDINGS)

NO SCALE

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

SYSTEM OUTPUTS — FACP ANNUNCIATION / NOTIFICATION / REQUIRED FIRE SAFETY CONTROL

A. ACTUATE COMMON ALARM SIGNAL INDICATOR
B. ACTUATE AUDIBLE ALARM SIGNAL
C. ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR
D. ACTUATE AUDIBLE SUPERVISORY SIGNAL
E. ACTUATE COMMON TROUBLE SIGNAL INDICATOR
F. ACTUATE AUDIBLE TROUBLE SIGNAL
G. ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR
H. ACTUATE GENERAL EVACUATION SIGNAL
I. DISPLAY CHANGE OF STATUS
J. TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION
K. TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION
L. TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
M. RELEASE MAGNETICALLY HELD DOORS
N. RECALL ELEVATOR TO RECALL FLOOR
O. RECALL ELEVATOR TO ALTERNATE RECALL FLOOR
P. ACTUATE WARNING TO ELEVATOR CABS
Q. DELAYED REMOVAL OF POWER FROM ELEVATOR
X. ALARM RESPECTIVE STROBES/SOUNDER BASES (LF, TEMP 3)

	SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	
1	FIRE ALARM SYSTEM AC POWER FAILURE					O	O						O														1
2	FIRE ALARM SYSTEM LOW BATTERY					O	O						O														2
3	OPEN CIRCUIT					O	O						O														3
4	GROUND FAULT					O	O						O														4
5	NOTIFICATION APPLIANCE CIRCUIT SHORT					O	O						O														5
6	BUILDING MANUAL PULL STATIONS	O	O					O	O	O	O			O													6
7																											7
8	AREA SMOKE DETECTORS	O	O					O	O	O	O			O	O												8
9																											9
10																											10
11																											11
12	SPRINKLER TAMPER SWITCH			O	O			O				O															12
13	SPRINKLER WATER FLOW IN BUILDING	O	O					O	O	O	O			O	O												13
14	SPRINKLER WATER FLOW IN ELEV EQUIP RM OR SHAFT	O	O					O	O	O	O			O	O		O	O									14
15	ELEV EQUIP RM AREA HEAT/SMOKE DETECTOR	O	O					O	O	O	O			O	O		O										15
16	ELEV SHAFT AND ELEV EQUIP RM HEAT/SMOKE DETECTORS	O	O					O	O	O	O			O	O		O	O									16
17	ELEV LOBBY SMOKE/HEAT DETECTORS - UPPER FLOORS	O	O					O	O	O	O			O	O												17
18	ELEV LOBBY SMOKE/HEAT DETECTOR - RECALL FLOOR	O	O					O	O	O	O			O		O	O										18
19	ELEV CONTROLLER POWER SHUNT TRIP STATUS			O	O			O				O															19
20																											20
21																											21
22																											22
23																											23
24																											24
25																											25
26	ADA APARTMENT SMOKE DETECTORS			O																					O		26
27	-																										27

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3 FIRE ALARM DEVICE MATRIX

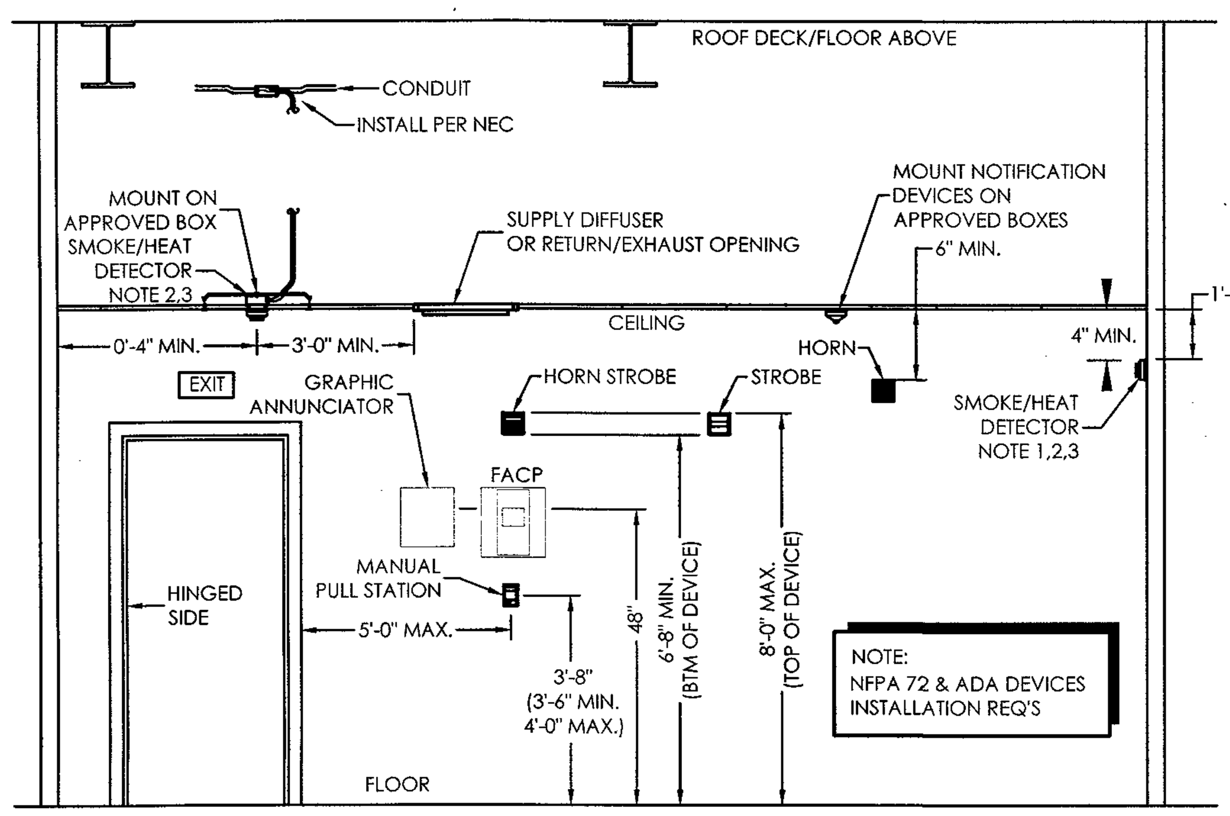
NO SCALE

FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL UNIT
TPR N	FIRE ALARM TERMINAL CABINET (N = TRANSPONDER NUMBER)
FSCP N	FIRE SUPPRESSION CONTROL PANEL (N DENOTES SUPPRESSION TYPE)
GAP N	GRAPHIC ANNUCIATOR PANEL
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
FAA	FIRE ALARM ANNUNCIATOR
MIC	REMOTE VOICE EVACUATION VOICE (EVACUATION MICROPHONE)
WF	WATER FLOW SWITCH
LT	LOW TEMPERATURE SWITCH
HP	HIGH PRESSURE SWITCH
PS	PRESSURE DETECTOR/SWITCH
VS	VALVE SUPERVISORY SWITCH
X	GAS DETECTOR (X = GAS TYPE EX. CARBON MONOXIDE)
X	HEAT DETECTOR/SENSOR (X= TYPE)
X	PROVIDE BOX, AS SHOWN, TO DENOTE COMBINATION DETECTORS
F	PULL STATION/FIRE ALARM
	SMOKE DETECTOR/SENSOR (DEFAULT PHOTOELECTRIC TYPE)
ION	SMOKE DETECTOR - IONIZATION TYPE (ION)
ADA,SB	SMOKE DETECTOR IN ADA UNIT. PROVIDE INTELLIGENT LOW FREQUENCY SOUNDER BASE WITH TEMPORAL 3 TONE EQUAL TO "SYSTEM SENSOR B200S-LF". PROVIDE COMPATIBLE PHOTOELECTRIC SMOKE DETECTOR/SENSOR.
SS	SMOKE ALARM (SINGLE STATION)
MS	SMOKE ALARM (MULTI. STATION)
SB	DETECTOR WITH SOUNDER BASE (SB)
MC	DETECTOR - MULTI CRITERIA TYPE (MC)
	DUCT SMOKE DETECTOR (NFPA 72, SECTION 17.7.5.5)
	AUDIBLE ONLY APPLIANCE (WALL MOUNTED)
15	VISUAL ONLY APPLIANCE (WALL MOUNTED)
15	AUDIBLE/VISUAL APPLIANCE (WALL MOUNTED)
15	VISUAL ONLY APPLIANCE (CEILING MOUNTED)
	AUDIBLE ONLY APPLIANCE (CEILING MOUNTED)
15	AUDIBLE/VISUAL APPLIANCE (CEILING MOUNTED)
	AUDIBLE ONLY APPLIANCE, SPEAKER (WALL MOUNTED)
15	AUDIBLE/VISUAL APPLIANCE, SPEAKER (WALL MOUNTED)
	AUDIBLE ONLY APPLIANCE, SPEAKER (CEILING MOUNTED)
15	AUDIBLE/VISUAL APPLIANCE, SPEAKER (CEILING MOUNTED)
DH	MAGNETIC DOOR HOLDER (SUPPLIED WITH DOOR HARDWARE), CONNECT TO LOCAL SMOKE DETECTOR.
	120V SPRINKLER BELL (WALL MOUNTED)
C	CONTROL MODULE EQUAL TO FIRE-LITE CMF-300.
R	RELAY MODULE EQUAL TO FIRE-LITE CRF-300.

GENERAL FIRE ALARM NOTES

1. THE FIRE ALARM CONTRACTOR IS TO BE HELD TO THE SAME REQUIREMENTS AS THE ELECTRICAL CONTRACTOR. FIRE ALARM CONTRACTOR SHALL REVIEW ELECTRICAL PLANS AND ELECTRICAL "GENERAL NOTES" BEFORE COMPLETING BID.
2. FIRE ALARM CONTRACTOR IS TO VERIFY PROPOSED SYSTEM HAS BATTERY AND VOLTAGE CAPACITY TO HANDLE ALL DEVICES PLUS REQUIRED CAPACITY FOR POTENTIAL FUTURE DEVICES. PROVIDE FIRE ALARM SHOP DRAWINGS TO LOCAL AHJ.
3. AUDIBLE FIRE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 dBA ABOVE THE AVERAGE AMBIENT SOUND PRESSURE LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, AT ALL LOCATIONS WITHIN THE OCCUPIABLE SPACE (TYPICAL AVERAGE AMBIENT SOUND PRESSURE LEVELS ARE GIVEN IN NFPA 72 TABLE A.18.4.3). THE MINIMUM SOUND PRESSURE LEVEL SHALL BE 75 dBA IN OCCUPANCY GROUPS R AND I-1, 90 dBA IN MECHANICAL EQUIPMENT ROOMS, AND 60 dBA IN ALL OTHER OCCUPANCIES. THE MAXIMUM SOUND PRESSURE LEVEL SHALL BE 110 dBA AT THE MINIMUM HEARING DISTANCE FROM ANY AUDIBLE APPLIANCE.
4. IF THREE OR MORE FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCES ARE LOCATED WITHIN AN OBSERVERS FIELD OF VIEW (135°) AND WITHIN 55'-0" OF THE OBSERVER, THEN THE DEVICES SHALL BE SYNCHRONIZED.
5. LOW FREQUENCY DEVICES TO BE INSTALLED IN SLEEPING AREAS. APARTMENT UNITS (INCLUDING LIVING ROOMS).
6. FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND 'ADA'.
7. ADA SMOKE DETECTORS TO INCLUDE LOW FREQUENCY SOUNDER BASE. TEMPORAL 3 TONE PATTERN FOR FIRE ALARM.
8. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT OR AS ALLOWED BY NEC OR LOCAL AHJ.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE AN UPDATED FIRE ALARM LAYOUT PLAN AT THE FACP.
10. TESTING OF THE FIRE ALARM SYSTEM SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
11. FIRE ALARM DEVICES COLOR TO BE SELECTED BY ARCHITECT.



DEVICE DETAIL NOTES:

1. PLACE SMOKE/HEAT DETECTOR AT HIGHEST POINT IN VAULTED CEILINGS.
2. PLACE SMOKE/HEAT DETECTOR NO LESS THAN 3FT FROM BATHROOM/SHOWER ROOM DOORS.
3. PLACE PHOTOELECTRIC SMOKE/HEAT ALARMS NO LESS THAN 6FT FROM PERMANENTLY INSTALLED COOKING APPLIANCES. PLACE IONIZATION SMOKE/HEAT DETECTORS WITH AN ALARM-SILENCING SWITCH NO LESS THAN 10FT FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. PLACE IONIZATION SMOKE/HEAT DETECTORS WITHOUT AN ALARM-SILENCING SWITCH NO LESS THAN 20FT FROM A PERMANENTLY INSTALLED COOKING APPLIANCE.

1 FIRE ALARM AND SIMILAR DEVICE LOCATIONS

NO SCALE

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FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS: NUMBER | DATE | INITIALS | DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: NPB
CHECKED BY: ZLT
SHEET TITLE: FIRE ALARM SCHEDULES & NOTES
SHEET NUMBER: FA0.01

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FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.

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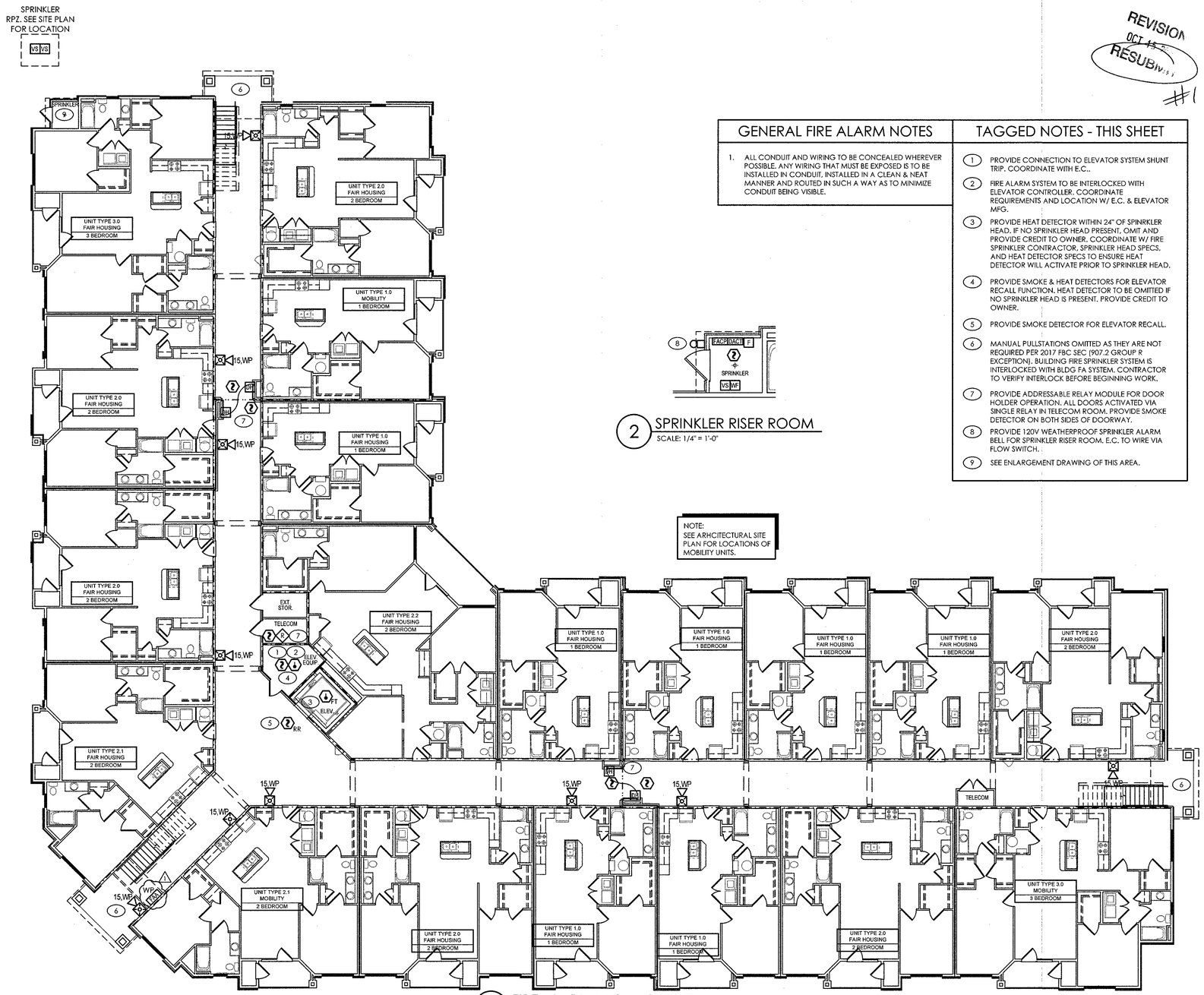

1 FIRE ALARM FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

2 SPRINKLER RISER ROOM
SCALE: 1/4" = 1'-0"

GENERAL FIRE ALARM NOTES

1. ALL CONDUIT AND WIRING TO BE CONCEALED WHEREVER POSSIBLE. ANY WIRING THAT MUST BE EXPOSED IS TO BE INSTALLED IN CONDUIT, INSTALLED IN A CLEAN & NEAT MANNER AND ROUTED IN SUCH A WAY AS TO MINIMIZE CONDUIT BEING VISIBLE.

TAGGED NOTES - THIS SHEET

1. PROVIDE CONNECTION TO ELEVATOR SYSTEM SHUNT TRIP. COORDINATE WITH E.C..
2. FIRE ALARM SYSTEM TO BE INTERLOCKED WITH ELEVATOR CONTROLLER. COORDINATE REQUIREMENTS AND LOCATION W/ E.C. & ELEVATOR MFG.
3. PROVIDE HEAT DETECTOR WITHIN 24" OF SPINRKLER HEAD. IF NO SPRINKLER HEAD PRESENT, OMIT AND PROVIDE CREDIT TO OWNER. COORDINATE W/ FIRE SPRINKLER CONTRACTOR, SPRINKLER HEAD SPECS, AND HEAT DETECTOR SPECS TO ENSURE HEAT DETECTOR WILL ACTIVATE PRIOR TO SPRINKLER HEAD.
4. PROVIDE SMOKE & HEAT DETECTORS FOR ELEVATOR RECALL FUNCTION. HEAT DETECTOR TO BE OMITTED IF NO SPRINKLER HEAD IS PRESENT. PROVIDE CREDIT TO OWNER.
5. PROVIDE SMOKE DETECTOR FOR ELEVATOR RECALL.
6. MANUAL PULLSTATIONS OMITTED AS THEY ARE NOT REQUIRED PER 2017 FBC SEC (907.2 GROUP R EXCEPTION). BUILDING FIRE SPRINKLER SYSTEM IS INTERLOCKED WITH BLDG FA SYSTEM. CONTRACTOR TO VERIFY INTERLOCK BEFORE BEGINNING WORK.
7. PROVIDE ADDRESSABLE RELAY MODULE FOR DOOR HOLDER OPERATION. ALL DOORS ACTIVATED VIA SINGLE RELAY IN TELECOM ROOM. PROVIDE SMOKE DETECTOR ON BOTH SIDES OF DOORWAY.
8. PROVIDE 120V WEATHERPROOF SPRINKLER ALARM BELL FOR SPRINKLER RISER ROOM. E.C. TO WIRE VIA FLOW SWITCH.
9. SEE ENLARGEMENT DRAWING OF THIS AREA.

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PLUMBING MECHANICAL ELECTRICAL
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ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses.

PROJECT NO: PLX-1906
DRAWN BY: NPB
CHECKED BY: ZLT
SHEET TITLE: FIRE ALARM FIRST FLOOR PLAN
SHEET NUMBER: FA1.10

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PLX-1906-FA110.DWG

FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.

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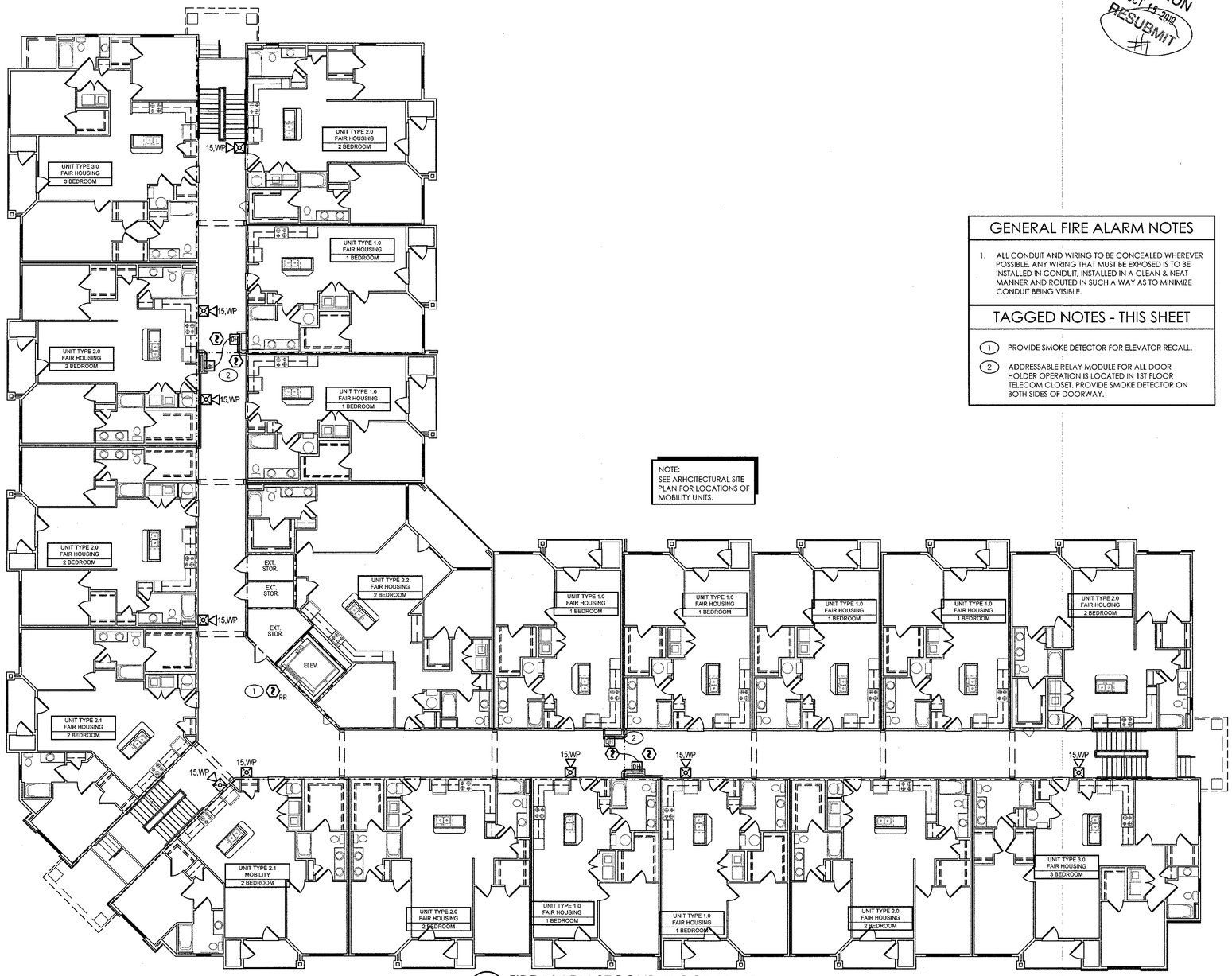
#1



NOTE:
SEE ARHCITECTURAL SITE PLAN FOR LOCATIONS OF MOBILITY UNITS.

GENERAL FIRE ALARM NOTES

1. ALL CONDUIT AND WIRING TO BE CONCEALED WHEREVER POSSIBLE. ANY WIRING THAT MUST BE EXPOSED IS TO BE INSTALLED IN CONDUIT, INSTALLED IN A CLEAN & NEAT MANNER AND ROUTED IN SUCH A WAY AS TO MINIMIZE CONDUIT BEING VISIBLE.

TAGGED NOTES - THIS SHEET

1. PROVIDE SMOKE DETECTOR FOR ELEVATOR RECALL.
2. ADDRESSABLE RELAY MODULE FOR ALL DOOR HOLDER OPERATION IS LOCATED IN 1ST FLOOR TELECOM CLOSET. PROVIDE SMOKE DETECTOR ON BOTH SIDES OF DOORWAY.

1 FIRE ALARM SECOND FLOOR PLAN
SCALE: 3/32" = 1'-0"

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FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: NPB
CHECKED BY: ZLT
SHEET TITLE: FIRE ALARM SECOND FLOOR PLAN
SHEET NUMBER: FA1.11

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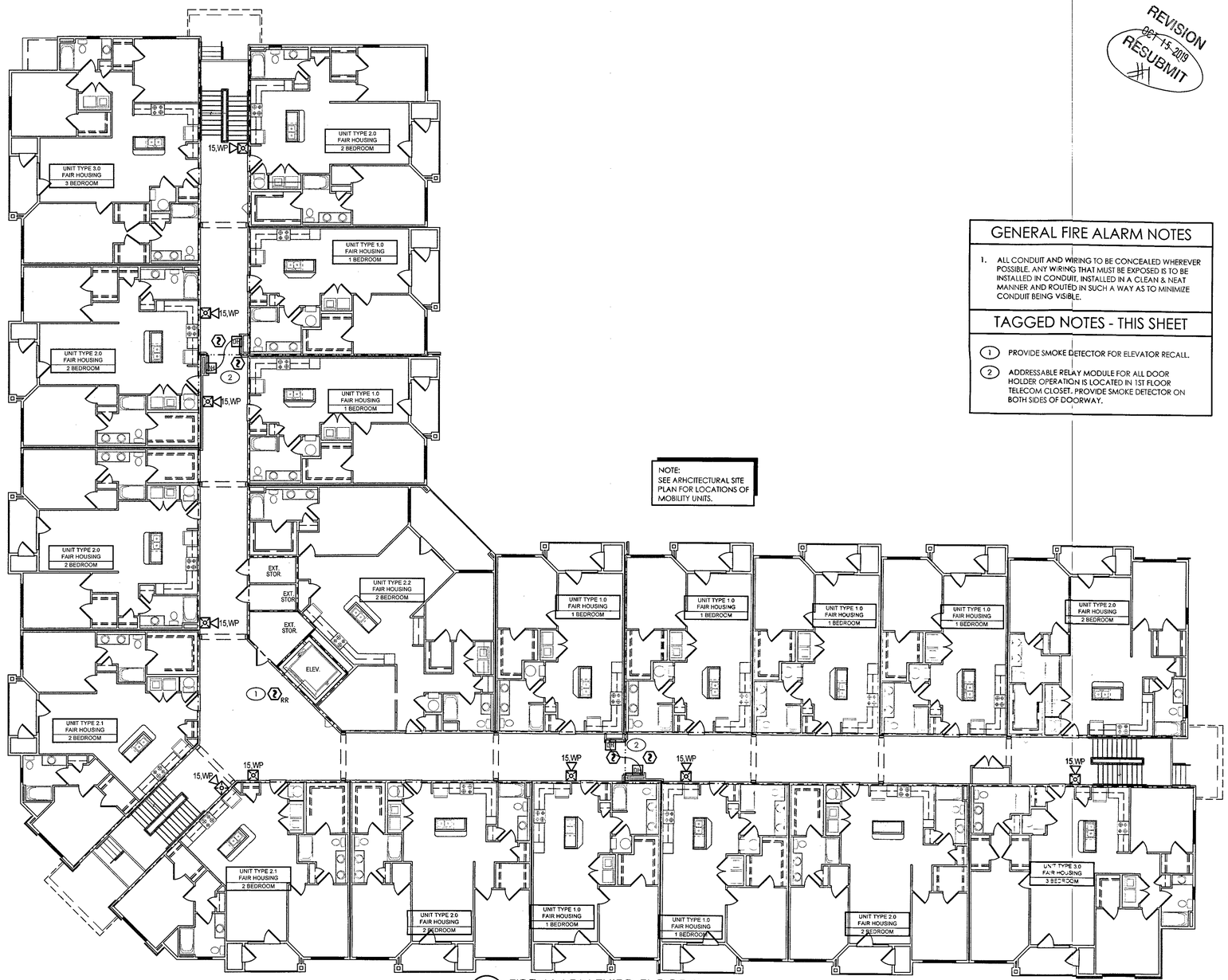

1 FIRE ALARM THIRD FLOOR PLAN
SCALE: 3/32" = 1'-0"

FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.

REVISION
SEP 15 2019
RESUBMIT

GENERAL FIRE ALARM NOTES

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FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	DESCRIPTION	INITIALS

PROJECT NO: PLX-1906
DRAWN BY: NPB
CHECKED BY: ZLT
SHEET TITLE: FIRE ALARM THIRD FLOOR PLAN
SHEET NUMBER: FA1.12

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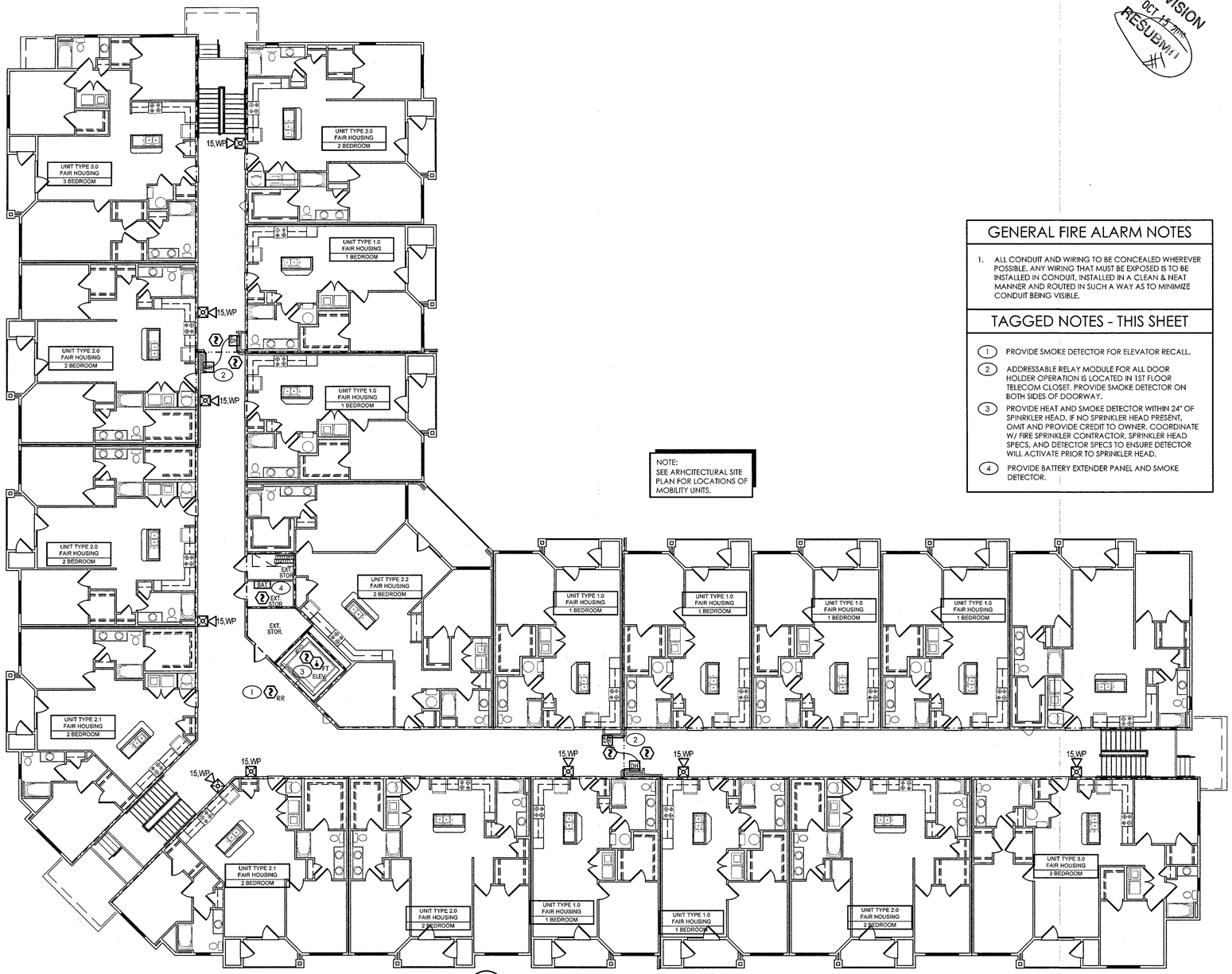
FIRE RATING LEGEND
1-HR WALL
2-HR WALL
* FLOOR/CEILING ASSEMBLY IS 1-HR RATED.

REVISION
OCT 11 2019
RESUBMIT #1



NOTE:
SEE ARHCITECTURAL SITE PLAN FOR LOCATIONS OF MOBILITY UNITS.

GENERAL FIRE ALARM NOTES

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2. ADDRESSABLE RELAY MODULE FOR ALL DOOR HOLDER OPERATION IS LOCATED IN 1ST FLOOR TELECOM CLOSET. PROVIDE SMOKE DETECTOR ON BOTH SIDES OF DOORWAY.
3. PROVIDE HEAT AND SMOKE DETECTOR WITHIN 24" OF SPINKLER HEAD. IF NO SPRINKLER HEAD PRESENT, OMIT AND PROVIDE CREDIT TO OWNER. COORDINATE W/ FIRE SPRINKLER CONTRACTOR, SPRINKLER HEAD SPECS, AND DETECTOR SPECS TO ENSURE DETECTOR WILL ACTIVATE PRIOR TO SPRINKLER HEAD.
4. PROVIDE BATTERY EXTENDER PANEL AND SMOKE DETECTOR.

1 FIRE ALARM FOURTH FLOOR PLAN
SCALE: 3/32" = 1'-0"

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FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: NPB
CHECKED BY: ZLT
SHEET TITLE:
FIRE ALARM FOURTH FLOOR PLAN
SHEET NUMBER:
FA1.13

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~~OCT 15 2019~~
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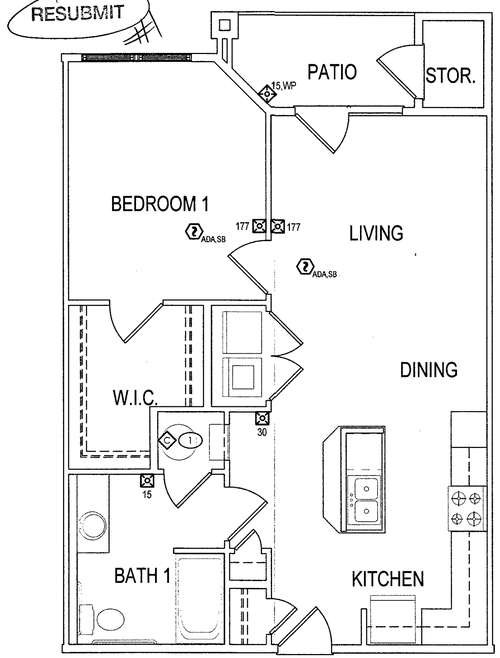


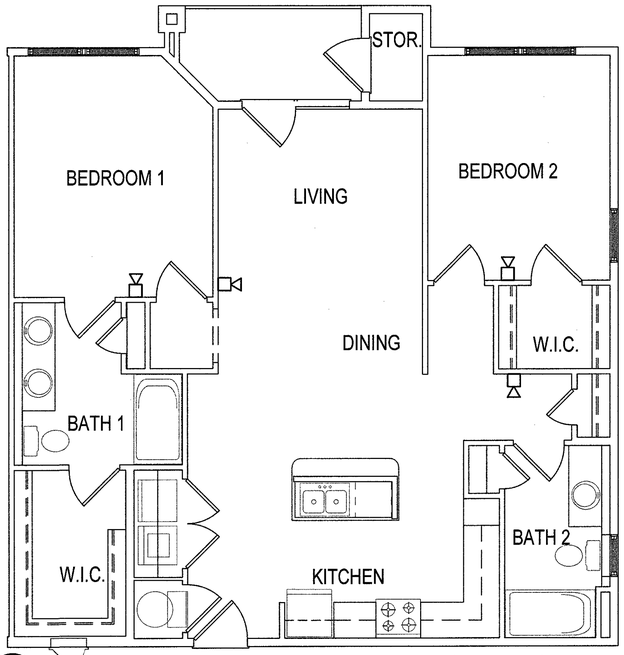
4 FIRE ALARM UNIT PLAN - TYPE 1.0 MOBILITY
SCALE: 1/4" = 1'-0"

GENERAL FIRE ALARM NOTES

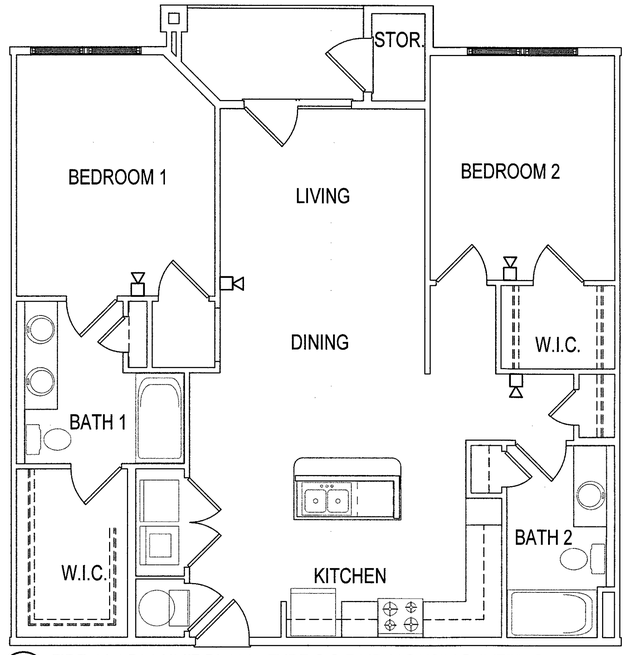
1. SEE FIRE ALARM DEVICE DETAIL (SHEET FA0.01) FOR MORE INFORMATION.
2. SEE ELECTRICAL PLANS FOR STAND ALONE SMOKE DETECTORS IN NON-ADA UNITS.
3. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
4. ALL FIRE ALARM DEVICES IN APARTMENTS TO BE LOW FREQUENCY TYPE.

TAGGED NOTES - THIS SHEET

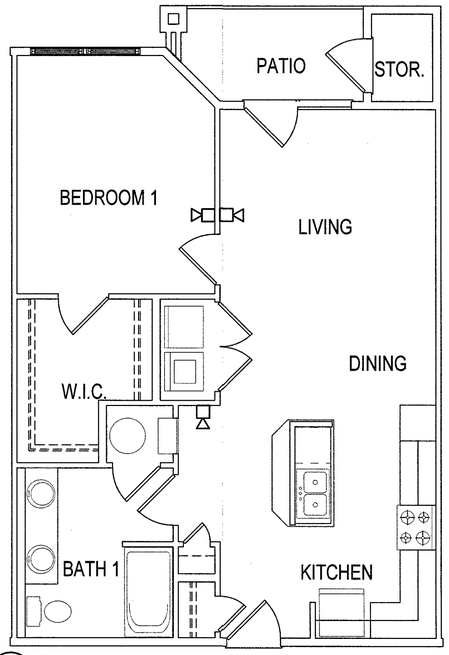
1 PROVIDE CONTROL MODULE TO ACTIVATE NOTIFICATION APPLIANCES WITHIN MOBILITY UNIT DURING BUILDING WIDE ALARM OR APARTMENT UNIT SMOKE DETECTION.



3 FIRE ALARM UNIT PLAN - TYPE 2.0 FAIR HOUSING END UNIT
SCALE: 1/4" = 1'-0"



2 FIRE ALARM UNIT PLAN - TYPE 2.0 FAIR HOUSING INTERIOR
SCALE: 1/4" = 1'-0"



1 FIRE ALARM UNIT PLAN - TYPE 1.0 FAIR HOUSING
SCALE: 1/4" = 1'-0"

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FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION
	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: NPB
CHECKED BY: ZLT
SHEET TITLE: FIRE ALARM UNIT PLANS
SHEET NUMBER: FA1.30

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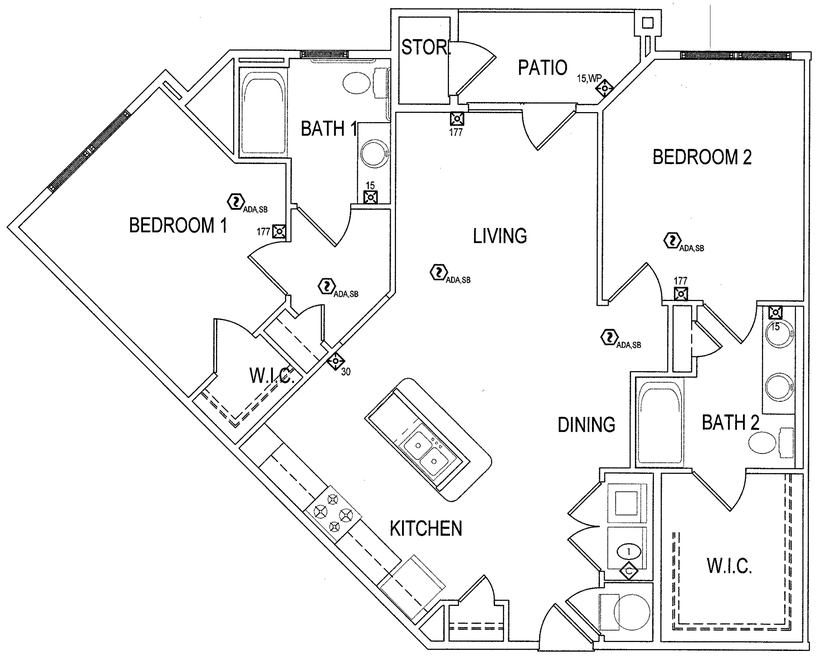
GENERAL FIRE ALARM NOTES

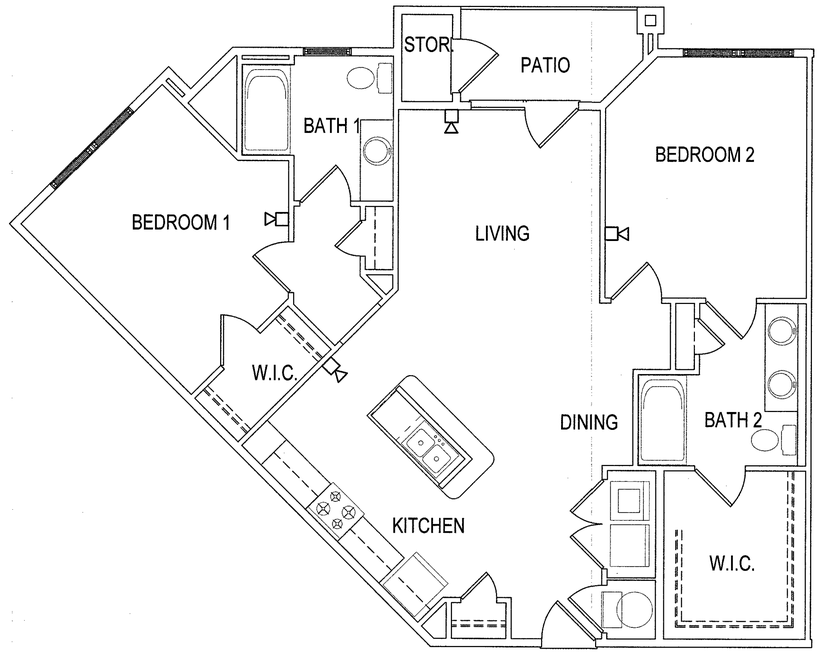
1. SEE FIRE ALARM DEVICE DETAIL (SHEET FA0.01) FOR MORE INFORMATION.
2. SEE ELECTRICAL PLANS FOR STAND ALONE SMOKE DETECTORS IN NON-ADA UNITS.
3. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
4. ALL FIRE ALARM DEVICES IN APARTMENTS TO BE LOW FREQUENCY TYPE.

TAGGED NOTES - THIS SHEET

1. PROVIDE CONTROL MODULE TO ACTIVATE NOTIFICATION APPLIANCES WITHIN MOBILITY UNIT DURING BUILDING WIDE ALARM OR APARTMENT UNIT SMOKE DETECTION.



2 FIRE ALARM UNIT PLAN - TYPE 2.1 MOBILITY
SCALE: 1/4" = 1'-0"



1 FIRE ALARM UNIT PLAN - TYPE 2.1 FAIR HOUSING
SCALE: 1/4" = 1'-0"

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FL COA #: 3316

ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: NPB
CHECKED BY: ZLT
SHEET TITLE: FIRE ALARM UNIT PLANS
SHEET NUMBER: FA1.31

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GENERAL FIRE ALARM NOTES

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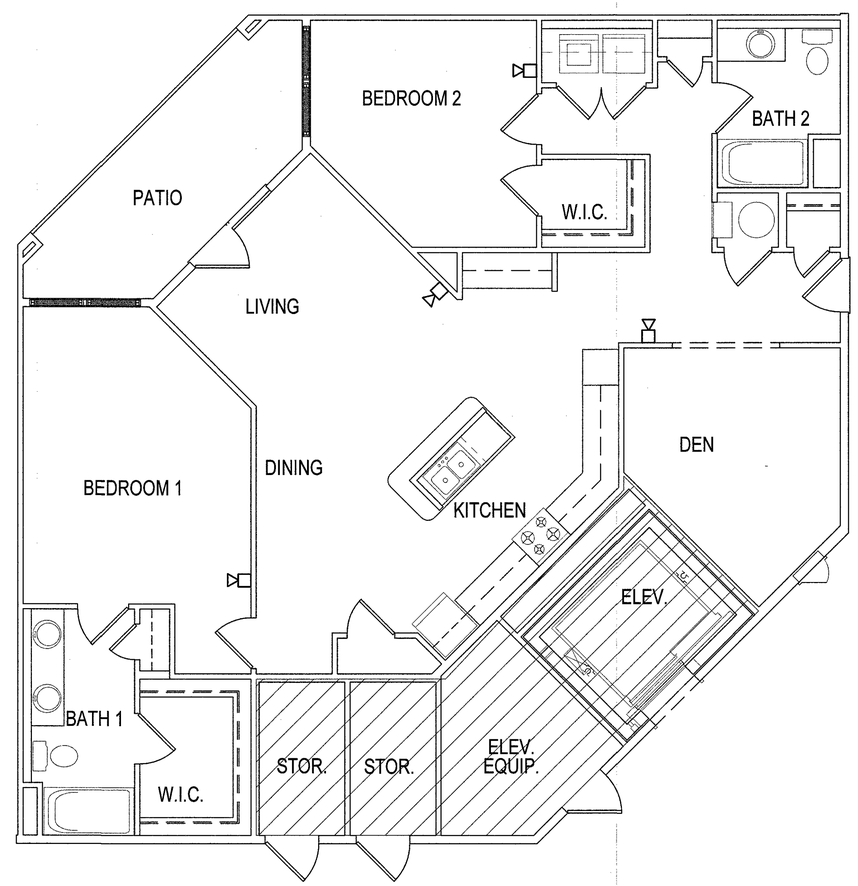
2. SEE ELECTRICAL PLANS FOR STAND ALONE SMOKE DETECTORS IN NON-ADA UNITS.
3. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
4. ALL FIRE ALARM DEVICES IN APARTMENTS TO BE LOW FREQUENCY TYPE.
5. HATCHED AREA INDICATES EXISTING AREAS NOT INCLUDED IN SCOPE OF WORK



1 FIRE ALARM UNIT PLAN - TYPE 2.2 FAIR HOUSING
SCALE: 1/4" = 1'-0"

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PLUMBING MECHANICAL ELECTRICAL
FL COA #: 3316

ISSUE DATE: 07.19.19

REVISIONS			
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: PLX-1906
DRAWN BY: NPB
CHECKED BY: ZLT
SHEET TITLE: FIRE ALARM UNIT PLANS
SHEET NUMBER: FA1.32

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GENERAL FIRE ALARM NOTES

1. SEE FIRE ALARM DEVICE DETAIL (SHEET FA0.01) FOR MORE INFORMATION.
2. SEE ELECTRICAL PLANS FOR STAND ALONE SMOKE DETECTORS IN NON-ADA UNITS.
3. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
4. ALL FIRE ALARM DEVICES IN APARTMENTS TO BE LOW FREQUENCY TYPE.

TAGGED NOTES - THIS SHEET

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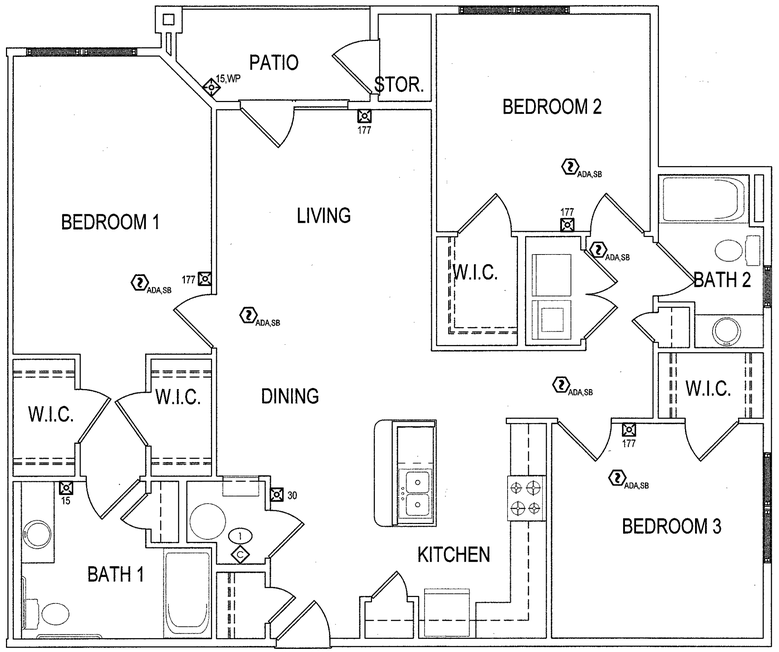
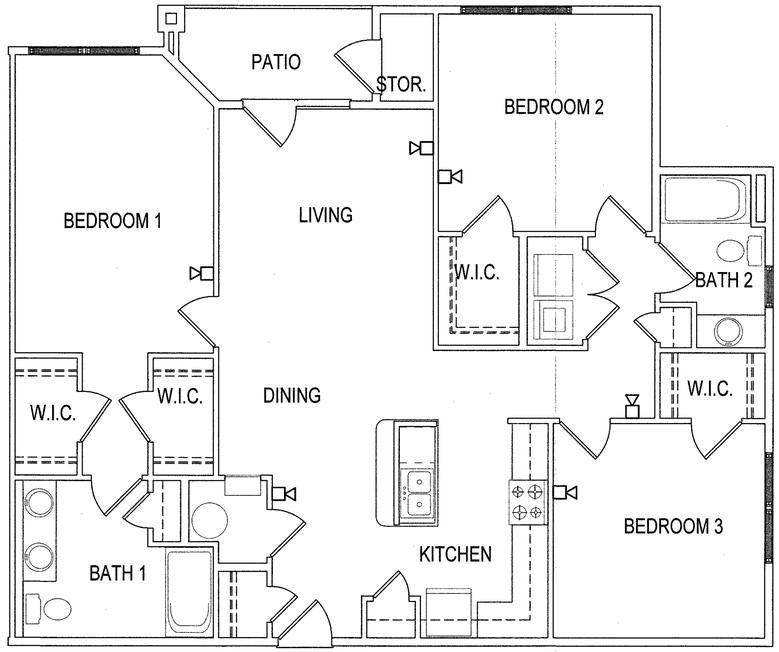


2 FIRE ALARM UNIT PLAN - TYPE 3.0 MOBILITY
SCALE: 1/4" = 1'-0"



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

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PROFESSIONAL ENGINEER
10/9/19

SURFSIDE CORNER
Zimmer Development Company
CAPE CORAL, FLORIDA
PERMIT SET

MAPLE
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FL COA #: 3316
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PLUMBING MECHANICAL ELECTRICAL
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ISSUE DATE:	07.19.19
REVISIONS	
NUMBER	DATE	INITIALS	DESCRIPTION
1	10.04.19		Cycle 1 Permit Responses

PROJECT NO: PLX-1906
DRAWN BY: NPB
CHECKED BY: ZLT
SHEET TITLE:
FIRE ALARM UNIT PLANS
SHEET NUMBER:
FA1.33

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