MECHANICAL LEGENDS

	FLOW ARROW
	FLEXIBLE CONNECTOR
UC CFM	DOOR UNDERCUT, 3/4"MAX., CAPACITY
	ROUND DUCT SECTION-SUPPLY
	ROUND DUCT SECTION-RETURN
	RETURN / EXHAUST DUCT TURNING DN
	RETURN / EXHAUST DUCT TURNING UP
	SUPPLY / OUTSIDE DUCT TURNING DN
	SUPPLY / OUTSIDE DUCT TURNING UP
	EXISTING DUCT
	FLEXIBLE DUCT CONNECTION
	DUCT ELBOW - TURNING VANES
R=1W R=1.5W R=2W	DUCT ELBOW - RADIUS
	DUCT ELBOW - MITERED
	DUCT TRANSITION RECTANGULAR TO RECTANGULAR
	DUCT TRANSITION RECTANGULAR TO ROUND
	VOLUME DAMPER - RECTANGLE
	VOLUME DAMPER - ROUND
	CONTROL DAMPER
SD	SMOKE DETECTOR
T	MECHANICAL THERMOSTAT
AxB	RECTANGULAR SHEET METAL DUCT
CØ	ROUND SHEET METAL DUCT
	FLEXIBLE RUNOUT DUCT
AP	ACCESS PANEL IN INACCESSIBLE CEILING
R	REFRIGERANT PIPING (LINE SET)
	4-WAY THROW
	3-WAY THROW
	2-WAY OPPOSITE THROW
	2-WAY CORNER THROW
	1-WAY THROW
	RETURN AIR GRILL
	TAP CONNECTION - RECTANGLE
	TAP CONNECTION - ROUND
CD-UG	CONDENSATE DRAIN (ABOVE GRADE)
CD	CONDENSER DRAIN (ABOVE GRADE)
	PIPE UP
	PIPE DOWN
G	PIPE GUIDE
4" 6"	PIPE REDUCTION
	PIPE CONTINUATION
	BALL VALVE
	BUTTERFLY VALVE
	POINT OF CONNECTION NEW TO EXISTING
	POINT OF REMOVAL FOR DEMOLITION
	BACKDRFT DAMPER

MECHANICAL ABBREVIATIONS

A	AMPERES	HB	HOSE BIB
AC	AIR CONDITIONING	HC	HEATING COIL
AD	ACCESS DOOR	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AHU	AIR HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE
AP	ACCESS PANEL	LWR	LEAVING WET BULB
APPROX	APPROXIMATELY	LWT	LEAVING WATER TEMPERATURE
AS	AIR SEPARATOR	MBH	THOUSAND BTU/H
BDD	BACKDRAFT DAMPER	MCA	MINIMUM CIRCUIT AMPACITY
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BOD	BOTTOM OF DUCT	MOCP	MAXIMUM OVERLOAD PROTECTION
BOL	BOTTOM OF LOUVER	NTS	NOT TO SCALE
BTUH	BRITISH THERMAL UNITS PER HOUR	OA	OUTSIDE AIR
CC	COOLING COIL	PD	PRESSURE DROP
CD	CONDENSATE DRAIN	PSI	POUNDS PER SQUARE INCH
CFM	CUBIC FEET PER MINUTE	PVC	POLYVINYL CHLORIDE
CLG	CEILING	R	RISE
Ø	DIAMETER	RA	RETURN AIR / ROOM AIR
D	DROP	RAG	RETURN AIR GRILLE
DB	DRY BULB	RH	RELATIVE HUMIDITY
DL	DRAIN LINE	RLA	RATED LOAD AMPS
DN	DOWN	RTU	ROOFTOP UNIT
DX	DIRECT EXPANSION	SA	SUPPLY AIR
EA	EXHAUST AIR	SF	SUPPLY FAN
EAT	ENTERING AIR TEMPERATURE	SPEC	SPECIFICATION
EF	EXHAUST FAN	SQFT	SQUARE FEET
ESP	EXTERNAL STATIC PRESSURE	TAD	TRANSFER AIR DUCT
°F	DEGREES FAHRENHEIT	TEMP	TEMPERATURE
FD	FIRE DAMPER	TYP	TYPICAL
FL	FLOOR	UC	UNDERCUT
FLEX	FLEXIBLE	UG	UNDERGROUND
FPM	FEET PER MINUTE	VD	VOLUME DAMPER (MANUAL)
GALV	GALVANIZED	W	WATT

MECHANICAL SPECIFICATIONS

MECHANICAL IDENTIFICATION MATERIALS:

ENGRAVED PLASTIC-LAMINATE LABELS: PROVIDE ENGRAVING STOCK MELAMINE PLASTIC LABELS FOR PERMANENT MOUNTING ON MECHANICAL EQUIPMENT. INDICATE UNIT NAME, NUMBER, AND ELECTRICAL PANEL SERVING THE EQUIPMENT.

PIPING:

PROVIDE PIPING, FITTINGS, HANGERS, AND SUPPORTS AS REQUIRED, AS INDICATED ON DESIGN DOCUMENTS, AND AS FOLLOWS:

REFRIGERANT PIPING: REFRIGERANT PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC FOAM INSULATION WHERE INSULATION IS EXPOSED TO OUTDOOR CONDITIONS SHALL BE FINISHED WITH MINIMUM 0.016 INCHES ALUMINUM JACKET FOR PROTECTION FROM VANDALISM, DAMAGE AND UV PROTECTION.

HVAC CONDENSATE DRAIN PIPING: HVAC CONDENSATE DRAIN LINES SHALL BE SCHEDULE 40 PVC WITH SOCKET TYPE FITTINGS AND SOLVENT CEMENT. INDOOR HVAC DRAIN LINES SHALL HAVE 1" FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER. SUSPEND INDOOR HVAC DRAIN PIPING ON CLEVIS HANGERS WITH INSULATION SHIELDS. SUPPORT OUTDOOR HVAC DRAIN PIPING ON NON-PENETRATING PIPE PEDESTALS. LOCATE EQUIPMENT AND ASSOCIATED DUCTWORK AND PIPING TO PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES. PVC HVAC DRAIN LINES OUTDOORS SHALL RECEIVE 2 COATS OF WHITE LATEX PAINT TO PREVENT UV DEGRADATION.

DUCTWORK AND ACCESSORIES:

ALL THE DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL WITH G90 COATING IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION. ALL JOINTS AND SEAMS IN ALL SHEETMETAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.

ALL SUPPLY, RETURN AND OUTDOOR AIR DUCT SHALL BE INSULATED WITH MINIMUM R-6 FIBERGLASS INSULATION MEETING ASTM C612 STANDARD. INSULATION SHALL HAVE FACTORY APPLIED REINFORCED ALUMINUM FOIL VAPOR BARRIER AND THERMAL CONDUCTIVITY: 0.22 AT 75 °F.

DUCTWORK SHOWN ON THE PLANS ARE SIZED AND ROUTED BASED ON INFORMATION AVAILABLE DURING THE DESIGN PHASE FOR CEILING HEIGHTS, STRUCTURAL MEMBERS, ETC. ALL DUCT SIZES AND ROUTINGS MUST BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION. HVAC DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.

PROVIDE FLEXIBLE CONNECTIONS AT ALL UNIT SUPPLY AIR. ALL DUCTS SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS FOR 2" STATIC PRESSURE RATING.

AIR DISTRIBUTION DEVICES:

AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM BY TITUS AND SHALL BE SUBMITTED FOR APPROVAL BEFORE ORDERING. ARCHITECT SHALL APPROVE COLOR AND FINISH OF ALL AIR DISTRIBUTION DEVICES.

FANS:

TOILET AND JANITOR CEILING EXHAUST FANS SHALL BE BY GREENHECK AND PROVIDED WITH DISCONNECT SWITCH, AND BACKDRAFT DAMPER.

AIR TREATMENT SYSTEMS:

AIR HANDLER (AHU-1) SHALL BE EQUIPPED WITH BIPOLAR IONIZATION AIR TREATMENT DEVICES INSTALLED AT THE SUPPLY FAN INLET. DEVICES SHALL BE 24 VAC AND BE CONNECTED TO THE EQUIPMENT CONTROL CIRCUIT.

PACKAGED TERMINAL HEAT PUMP UNIT:

PACKAGE TERMINAL HEAT PUMPS SHALL BE BY TRANE. THE SYSTEM SHALL BE AHRI STANDARD 310/380 COMPLIANT AND LABELED. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE PROGRAMMABLE THERMOSTATS, BUILT-IN ELECTRIC HEATER FOR SUPPLEMENT HEATING, SINGLE POINT POWER SUPPLY WITH NEMA PLUG. UNIT SHALL BE PROVIDED WITH A NYLON MESH FILTER SECTION WITH SLIDE-OUT TYPE ACCESS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR COMPLETE, OPERABLE SYSTEMS.

THE POWER SUPPLY CIRCUIT IS INSTALLED IN ACCORDANCE WITH CURRENT EDITION OF NEC™(ANSI/NFPA 70) AND LOCAL CODES AND ORDINANCES. WALL SLEEVES RECOMMENDED FOR PROPER INSTALLATION ON ALL NEW INSTALLATIONS.

HVAC DRAIN LINES SHALL BE SCHEDULE 40 PVC WITH SOCKET TYPE FITTINGS AND SOLVENT CEMENT. LOCATE EQUIPMENT AND ASSOCIATED DUCTWORK AND PIPING TO PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.

SPLIT SYSTEM HEAT PUMP:

SPLIT SYSTEM HEAT PUMPS SHALL BE BY TRANE. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE PROGRAMMABLE THERMOSTATS, BUILT-IN ELECTRIC HEATER, SINGLE POINT POWER SUPPLY AND PLEATED MERV 8 FILTER. PROVIDE 4-YEAR EXTENDED WARRANTY ON COMPRESSOR PARTS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR COMPLETE, OPERABLE SYSTEMS.

HVAC DRAIN LINES SHALL BE SCHEDULE 40 PVC WITH SOCKET TYPE FITTINGS AND SOLVENT CEMENT. LOCATE EQUIPMENT AND ASSOCIATED DUCTWORK AND PIPING TO PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.

TESTING, ADJUSTING AND BALANCING FOR HVAC:

- PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE" OR NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS" AND IN THIS SECTION.

  COMPLY WITH REQUIREMENTS IN ASHRAE 62.1 AND INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS.
- CUT INSULATION, DUCTS, PIPES, AND EQUIPMENT CABINETS FOR INSTALLATION OF TEST PROBES TO THE MAXIMUM EXTENT NECESSARY FOR TAB PROCEDURES.
  - AFTER TESTING AND BALANCING, PATCH PROBE HOLES IN DUCTS WITH SAME MATERIAL AND THICKNESS AS USED TO CONSTRUCT DUCTS.
  - INSTALL AND JOIN NEW INSULATION THAT MATCHES REMOVED MATERIALS. RESTORE INSULATION, COVERINGS, VAPOR BARRIER, AND FINISH ACCORDING TO SECTION "HVAC INSULATION."
- MARK EQUIPMENT AND BALANCING DEVICES, INCLUDING DAMPER-CONTROL POSITIONS, VALVE POSITION INDICATORS, FAN-SPEED-CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIAL TO SHOW FINAL SETTINGS.
- TAKE AND REPORT TESTING AND BALANCING MEASUREMENTS IN INCH-POUND (IP) UNITS.
- SET HVAC SYSTEM'S AIR FLOW RATES AND WATER FLOW RATES WITHIN THE FOLLOWING TOLERANCES:
  - SUPPLY, RETURN, AND EXHAUST FANS AND EQUIPMENT WITH FANS: PLUS OR MINUS 10 PERCENT.
  - AIR OUTLETS AND INLETS: PLUS OR MINUS 10 PERCENT.
  - COOLING-WATER FLOW RATE: PLUS OR MINUS 10 PERCENT.
- PREPARE A CERTIFIED WRITTEN REPORT; TABULATE AND DIVIDE THE REPORT INTO SEPARATE SECTIONS FOR TESTED SYSTEMS AND BALANCED SYSTEMS.
  - INCLUDE A CERTIFICATION SHEET AT THE FRONT OF THE REPORT'S BINDER, SIGNED AND SEALED BY THE CERTIFIED TESTING AND BALANCING ENGINEER.
  - INCLUDE A LIST OF INSTRUMENTS USED FOR PROCEDURES, ALONG WITH PROOF OF CALIBRATION.

MECHANICAL NOTES

1. PROVIDE ACCESS PANELS IN DUCTWORK, WALLS AND CEILINGS REQUIRED FOR OPERATION , BALANCING, INSPECTION AND/OF MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
2. PROVIDE CLEAR ACCESS TO FIRE DAMPERS,SMOKE DAMPERS, AND FIRE/SMOKE DAMPERS.
3. THE SIZE, LOCATION, WEIGHT, ELECTRICAL REQUIREMENTS,AND SERVICE CLEARANCES OF EQUIPMENTS INSTALLED BY MECHANICAL SHALL BE COORDINATED WITH ALL OTHER TRADES.
4. ALL EQUIPMENT, PIPING, AND VALVES SHALL HAVE IDENTIFICATION LABELS AND TAGS PER SPECIFICATIONS, OWNER REQUIREMENTS AND AS INDICATED.
5. ALL BARE METAL SURFACES SHALL BE PRIMED AND PAINTED TO PREVENT ANY RUST, INCLUDING, BUT NOT LIMITED TO, ANGLE FRAMING,UNIT SUPPORTS, MOUNTING HARDWARE, ETC.
6. PROVIDE AN AUXILIARY DRAIN PAN UNDER ALL AIR HANDLING UNITS OR FAN COIL UNITS LOCATED ABOVE THE CEILING OR IN OTHERCONCEALED LOCATIONS. PROVIDE EACH COMPLETE WITH A SECONDARY DRAIN LINE ROUTED TO A READILY VISIBLE LOCATION, OR A FLOAT SWITCH WIRED TO SHUTDOWN UNIT
7. ALL DUCTWORK IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS ALL SPLIT DUCT FITTINGS SHALL FIRST TRANSITION UPSTREAM OF THE SPLIT TO THE FULL SIZE OF THE SUM OF BOTH BRANCHES.
8. ALL HORIZONTAL SUSPENDED RECTANGULAR DUCTS SHALL BE SUPPORTED WITH THE GALVANIZED STEEL TRAPEZE HANGERS UNDER BOTTOM OF DUCTS. SECURELY FASTEN SUPPORTERS TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER. RECTANGULAR DUCTS EIGHTEEN (18) INCHES OR LESS IN WIDTH MAY BE SUPPORTED WITH GALVANIZED STEEL STRAP HANGERS AROUND SIDES AND BOTTOM OF DUCTS IN LIEU OF TRAPEZE HANGERS.
9. ALL HORIZONTAL OR VERTICAL DUCT BENDS AND ANGLED TURNS OF DUCTWORK SHALL HAVE LONG RADIUS ELBOWS WHEREVER POSSIBLE. SHORT RADIUS ELBOWS MAY BE PROVIDED WHERE SHOWN ON THE DRAWINGS. WHERE A SUITABLE RADIUS ELBOW WILL NOT FIT MITERED ELBOWS IN AXES OF 60 DEGREES SHALL HAVE TURNING VANES INSTALLED.
10. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR-HANDLING UNIT AND FAN-COIL UNIT. FLEX CONNECTION MAY BE OMITTED WHERE CONNECTING TO AN AHU HAVING INTERNAL FAN VIBRATION ISOLATION.
11. COORDINATE DUCT SMOKE DETECTORS WITH ELECTRICAL AND CONTROL CONTRACTOR. INSTALL A DUCT SMOKE DETECTOR IN EACH SUPPLY AND RETURN DUCT AT EACH AHU IN SUPPLY SIDE, DETECTOR MUST BE LOCATED IN MAIN DUCT UPSTREAM OF THE FIRST BRANCH. IN RETURN SIDE, DETECTOR(S) MUST BE LOCATED IN MAIN DUCT PRIOR TO THE INTRODUCTION OF VENTILATION (OUTDOOR) AIR. DETECTORS SHALL DE-ENERGIZE THE SUPPLY FAN WHEN SMOKE IS DETECTED. CONNECT TO THE FIRE ALARM SYSTEM, SO THAT THE ALARM ENUNCIATED AT THE FIRE ALARM PANEL CORRESPONDS TO THE AREA IN ALARM. PROVIDE INDOOR/OUTDOOR COVERS AS REQUIRED AND ALL SAMPLING TUBES SHALL BE EXTEND TO COVER ENTIRE DUCT LENGTH/WIDTH.
12. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED TO THE NEAREST PLUMBING DRAIN, AT FULL SIZE OF UNIT CONNECTIONS.
13. INSTALLATION OF EQUIPMENT, DUCTWORK AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR REMOVAL OF FILTERS AND FOR MAINTENANCE.
14. COORDINATE EXACT LOCATIONS OF AIR DISTRIBUTION EQUIPMENT WITH THE CEILING AND THE LIGHTING LAYOUT.
15. PROVIDE FIRE DAMPER AT EVERY DUCT PENETRATION OF FIRE RATED CONSTRUCTION, WHETHER SHOWN ON THE DRAWINGS OR NOT.
16. WHERE FIRE DAMPERS ARE REQUIRED, PROVIDE DUCT ACCESS DOORS TO ALLOW RE-LINKING OF DAMPER FUSIBLE LINKS. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
17. IT IS RECOMMENDED THAT DUCTWORK BE FABRICATED FROM FIELD MEASUREMENTS TAKEN AS THE BUILDING STRUCTURE AND SPACE COMPETING SYSTEMS ARE PROGRESSIVELY INSTALLED. THE DUCTWORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS IS DIAGRAMMATIC AND DOES NOT NECESSARILY INCLUDE ALL MODIFICATIONS REQUIRED TO AVOID THESE INTERFERENCES FABRICATING ANY DUCTWORK, CHECK THE PHYSICAL CONDITIONS AT THE JOB SITE AND MAKE CHANGES IN CROSS SECTIONS, ROUTING, OFFSETS AND SIMILAR ITEMS WHETHER SPECIFICALLY INDICATED OR NOT. VERIFY THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING DUCTWORK, PIPING, LIGHT FIXTURES, CEILING SYSTEMS AND TO PROVIDE EQUIPMENT SERVICE. COSTS REQUIRED TO CHANGE DUCTWORK TO FIT THE SPACE AVAILABLE AND AVOID INTERFERENCES CAUSED BY SPACE COMPETING SYSTEMS SHALL BE BORNE BY THE CONTRACTOR. NO ADDITIONAL REMUNERATION WILL BE PAID BY THE OWNER.
18. PROVIDE VOLUME CONTROL DAMPERS IN SIDE TAKE-OFF FITTINGS TO SUPPLY AIR DIFFUSERS AND EXHAUST AIR AND RETURN AIR GRILLES AND AT EACH DUCT BRANCH SERVING TWO OR MORE AIR TERMINALS, WHETHER SHOWN ON THE DRAWINGS OR NOT.
19. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
20. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH THE STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
21. HVAC DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.

CONTROLS

1. ALL WIRING, CONDUIT & POWER FOR ALL CONTROLS SHALL BE THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR, INCLUDING COORDINATION WITH OTHER TRADES. THE CONTROLS CONTRACTOR, AT HIS/HER OWN COST, SHALL ENGAGE THE ELECTRICAL CONTRACTOR AS REQUIRED.
2. ALL CONTROL WIRING AND CONDUIT SHALL COMPLY WITH THE ELECTRICAL SPECIFICATIONS OF THE PROJECT.
3. THERMOSTATS/SENSORS/CONTROLLERS/SWITCHES:
   A. TEMPERATURE SENSORS AND THERMOSTATS SHALL BE MOUNTED ON AN INSULATED SUB-BASE, IF LOCATED ON AN EXTERIOR WALL OR COLUMN.
   B. SHALL ALL BE MOUNTED SO THAT ANY LOCAL CONTROLS ARE 4'-0" (TOP) ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
   C. ARE ALL SHOWN IN APPROXIMATE LOCATIONS ON THE MECHANICAL PLANS. COORDINATE FINAL LOCATIONS WITH THE ARCHITECTURAL DRAWINGS AND DETAILS.
4. AFTER THE SYSTEMS HAVE BEEN BALANCED AND ALL ADJUSTMENTS COMPLETED, RUN A SIX HOUR TEST ON BOTH THE APPLICABLE HEATING AND COOLING CYCLES TO DETERMINE IF THE SYSTEM IS RESPONDING TO TEMPERATURE CONTROLS. RECORD THERMOSTAT TEMPERATURE READING. PROVIDE AND RECORD AN INDEPENDENT TEMPERATURE MEASUREMENT AT EACH THERMOSTAT.
5. THE AHU FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED PERIODS TO ENSURE FRESH AIR INTO THE SPACE.
6. PROVIDE TO THE OWNER A DEMONSTRATION OF THE PROGRAMMING AND OPERATION OF ALL NEW AUTOMATIC TEMPERATURE CONTROLS.

DRAWING INDEX - MECHANICAL

M-001	MECHANICAL SPECIFICATIONS & NOTES
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GENERAL NOTES

1. ALL WORK SHALL BE PROVIDED IN ACCORDANCE WITH CODES AND STANDARDS REFERENCED THROUGHOUT THE SPECIFICATIONS. COMPLY WITH OWNERS DESIGN & CONSTRUCTION STANDARDS.
   2020 FLORIDA BUILDING CODE, 7TH EDITION.
   - BUILDING CODE
   - PLUMBING CODE
   - FUEL GAS CODE
   - MECHANICAL CODE
   - ENERGY CONSERVATION CODE
   - NATIONAL ELECTRICAL CODE 2017
1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL FIELD DIMENSIONS, LOCATIONS AND CONDITIONS PRIOR TO THE INSTALLATION OF ANY MATERIALS AND COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES THAT WILL AFFECT THE WORK FOR RESOLUTION.
2. THE CONTRACTOR SHALL PAY FOR INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
4. THE TERM "PROVIDE" SHALL MEAN THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. ALL LABOR, MATERIALS AND INSTALLATIONS MUST COMPLY WITH THE CODES, RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
6. CONTRACTOR SHALL MAINTAIN PROPER PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING SAFETY REGULATIONS.
7. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
8. THE CONTRACTOR SHALL COOPERATE WITH SUBCONTRACTORS TO MANAGE EQUIPMENT, MATERIALS, AND OTHER SERVICES REQUIRED FOR SMOOTH FLOW OF THE PROJECT.
9. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF EQUIPMENT AND MATERIALS.
10. THE CONTRACTOR SHALL MANAGE GENERATED WASTE.
11. ALL EQUIPMENT AND SERVICEABLE DEVICES SHALL BE INSTALLED WITH ACCESS AND CLEARANCE FOR MAINTENANCE, REPLACEMENT AND/OR USE. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES TO PROVIDE THIS ACCESS AND CLEARANCE. INSTALL ALL EQUIPMENT, DEVICES AND MATERIALS PER MANUFACTURER'S INSTRUCTIONS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTION AND MISALIGNMENT ACCORDING TO APPLICABLE CODES AND STANDARDS.
13. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE ARCHITECT AT COMPLETION OF CONSTRUCTION.
14. ANY DISCREPANCY WHICH EXISTS BETWEEN THE REQUIREMENTS BY THE PLANS, SPECIFICATIONS, SAID CODES, RULES AND REGULATIONS, SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT, IN WRITING FOR RESOLUTION. IF ANY CHANGE IN THE PLANS AND / OR SPECIFICATIONS OCCURS AS A RESULT OF THE REQUIREMENTS OF THE LIFE SAFETY CODE (NFPA 101) OR ANY OTHER AUTHORITIES HAVING JURISDICTION AFTER THE SUBMISSIONS OF BIDS, THEN THE BIDDERS WILL BE GIVEN THE OPPORTUNITY TO ADJUST THEIR BIDS, IF NECESSARY, ONLY FOR THE CHANGE.
15. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKERBOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
16. NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
17. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
18. ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST THE WIND LOAD REQUIREMENTS INDICATED IN THE STRUCTURAL DRAWINGS.
19. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES.
20. BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
21. REPLACE SIDEWALKS OR PAVEMENT DAMAGED BY OR DURING CONSTRUCTION OF THIS PROJECT.
22. ALL EXPOSED PIPES, CONDUITS OR DUCTS IN FINISHED AREAS, WHETHER SHOWN ON DRAWINGS OR NOT, SHALL BE FURRED OUT WITH GYPSUM BOARD.
23. ALL MATERIALS AND CONSTRUCTION TO BE INCORPORATED IN THE WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE ASTM SPECIFICATIONS APPLICABLE AND SHALL CONFIRM TO THE STANDARDS AND RECOMMENDATIONS OF THE VARIOUS TRADE INSTITUTES (A.C.I., A.I.S.C., ETC.) WHERE APPLICABLE.
24. LOCATION OF ACCESS DOORS SUPPLIED BY MECHANICAL TRADES AND INSTALLED BY OTHERS SHALL BE DETERMINED IN THE FIELD THROUGH COORDINATION OF TRADES, LOCATION OF LIGHT FIXTURES SHALL GOVERN POSITION OF DUCTS AND PIPES FOR WHICH ACCESS DOORS ARE REQUIRED. ACCESS DOORS SHALL NOT BE PLACED IN INACCESSIBLE POSITIONS OR IN THE WAY OF LIGHTS, GRILLS, REGISTERS, CONCEALED BY CASEWORK, ETC.
25. THE CONTRACTOR SHALL DO ALL CUTTING AND PATCHING REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.
26. ALL PIPING AND WIRING SHALL BE REMOVED TO A POINT OF CONCEALMENT AND SHALL BE PROPERLY CAPPED AND PLUGGED.
27. THE CONTRACTOR SHALL NOT CONSTRUCT, UNLESS OTHERWISE NOTED, INTERIOR PARTITION WALLS TO FULL HEIGHT UNTIL ALL PIPES, DUCTS, ETC. ARE IN PLACE.
28. ALL VERTICAL SHAFTS SHALL HAVE A MINIMUM FIRE RATING OF 2-HOURS UNLESS REQUIRED OTHERWISE BY CODES DUE TO OCCUPANCY ADJACENCIES.
29. FIRE STOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTIONS AS PER SPECIFICATIONS.
30. IF THERE ARE ANY APPARENT CONFLICTS BETWEEN THE SPECIFICATIONS, DRAWINGS AND CODE REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY AND BE INCLUDED IN THE BID.
31. CONTRACTOR SHALL MAKE HIMSELF/HERSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECTS/ENGINEER UPON REQUEST.
32. PROVIDE MAINTENANCE MANUALS FOR ALL PIECES OF EQUIPMENTS FOR OWNERS USE FOR PREVENTATIVE MAINTENANCE AND GENERAL RECORDS. IDENTIFY EACH PIECE OF EQUIPMENT IN THE TABBED, 3 RING BINDER THAT MATCHES THE LABELS ON THE EQUIPMENT.
33. WHERE CROWDED LOCATIONS EXISTS OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, CONTRACTOR SHALL BE COORDINATED WITH ALL OTHER SHOWING THE EXACT LOCATION OF PIPES, DUCTS, CONDUITS AND EQUIPMENT. DRAWING SHALL BE BASED ON FIELD MEASUREMENT AND, AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION OF THE WORK.
34. WHENEVER A REFERENCE IS MADE TO A STANDARD, INSTALLATION AND MATERIALS SHALL COMPLY WITH THE LATEST PUBLISHED EDITION AT THE TIME THE PROJECT IS BID UNLESS OTHERWISE SPECIFIED.
35. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANEL BOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO THE STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.
36. IN GENERAL, ALL PIPING,WIRING AND DUCTWORK SHALL BE RUN IN THE CEILING SPACE UNLESS NOTED OR INDICATED OTHERWISE.
37. ALL RISES, DROPS, AND TRANSITIONS IN PIPING AND DUCTWORK MAY NOT NECESSARILY HAVE BEEN SHOWN.
38. INSTALL DUCTWORK, PIPING, ETC. AS HIGH AS POSSIBLE ABOVE CEILING WHILE MAINTAINING ACCESSIBILITY FOR EQUIPMENT AND DEVICES AS APPROPRIATE.
39. THE MECHANICAL CONTRACT IS DIRECTED TO COMPLY WITH DIVISION 26 OF THE CONTRACT SPECIFICATIONS REFERRING TO MOTORS, STARTERS, ETC.
40. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED. CUTTING OF CONCRETE FOR INSTALLATION OF A CONDENSATE TRAP IS NOT PERMITTED.
41. DIFFUSERS AND REGISTER LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURE AND OTHER CEILING DEVICE LOCATIONS, FIELD VERIFY.

ISP INTERNATIONAL SERVICE PARTNERS, LLC
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TEL: (407) 619-6442
COA #6797

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Ormond Beach FL 32174
Ph: 386-676-2686

LA BRISA INN

5711 EAST HIGHWAY 98, PANAMA CITY, FLORIDA

MECHANICAL SPECIFICATIONS & NOTES

Mitesh Smart — Digitally signed by Mitesh Smart Date: 2023.01.27 06:41:58 -04'00'

E-SIGN

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SEAL

MITESH K. SMART
PROF. ENGINEER

TO THE BEST OF THE ARCHITECT'S K N O W L E D G E, THE PLANS AND SPECIFICATIONS C O M P L Y WITH THE A P P L I C A B L E M I N I MUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH S E C T I O N 110.8.4.4 FBC-B A N D CHAPTER 633, FLORIDA STATUES.

REV#	DATE	DESCRIPTION

01-27-2023

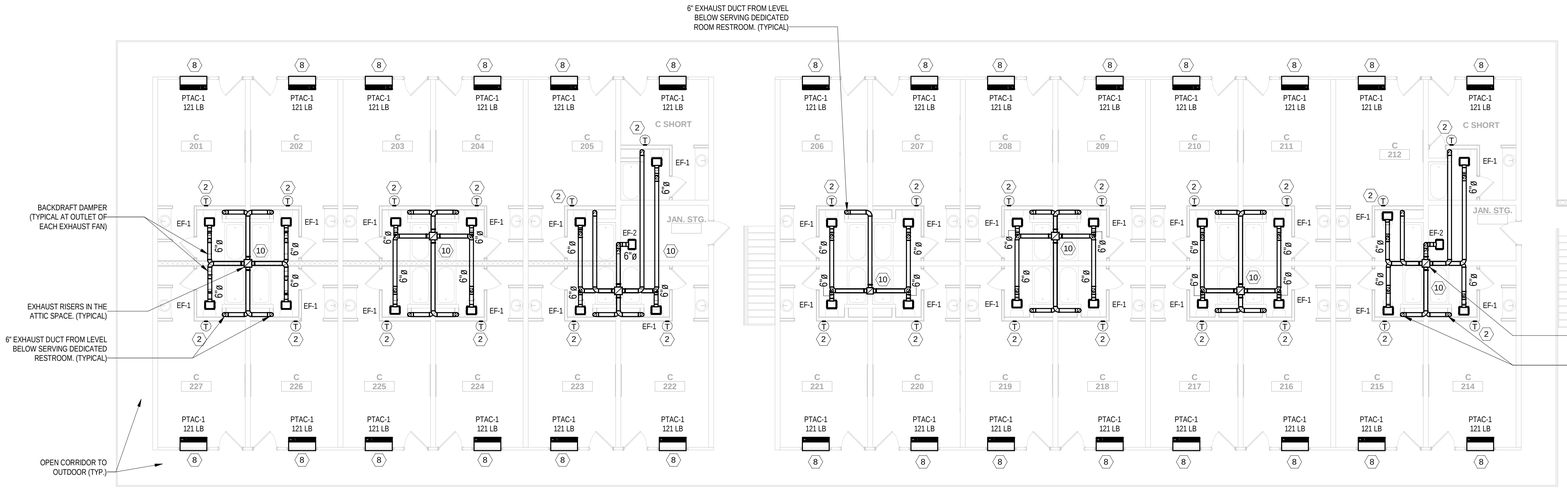
SHEET NUMBER

M-001

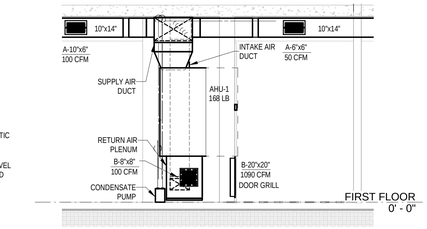
CONSTRUCTION DOCUMENTS

KEY NOTES:

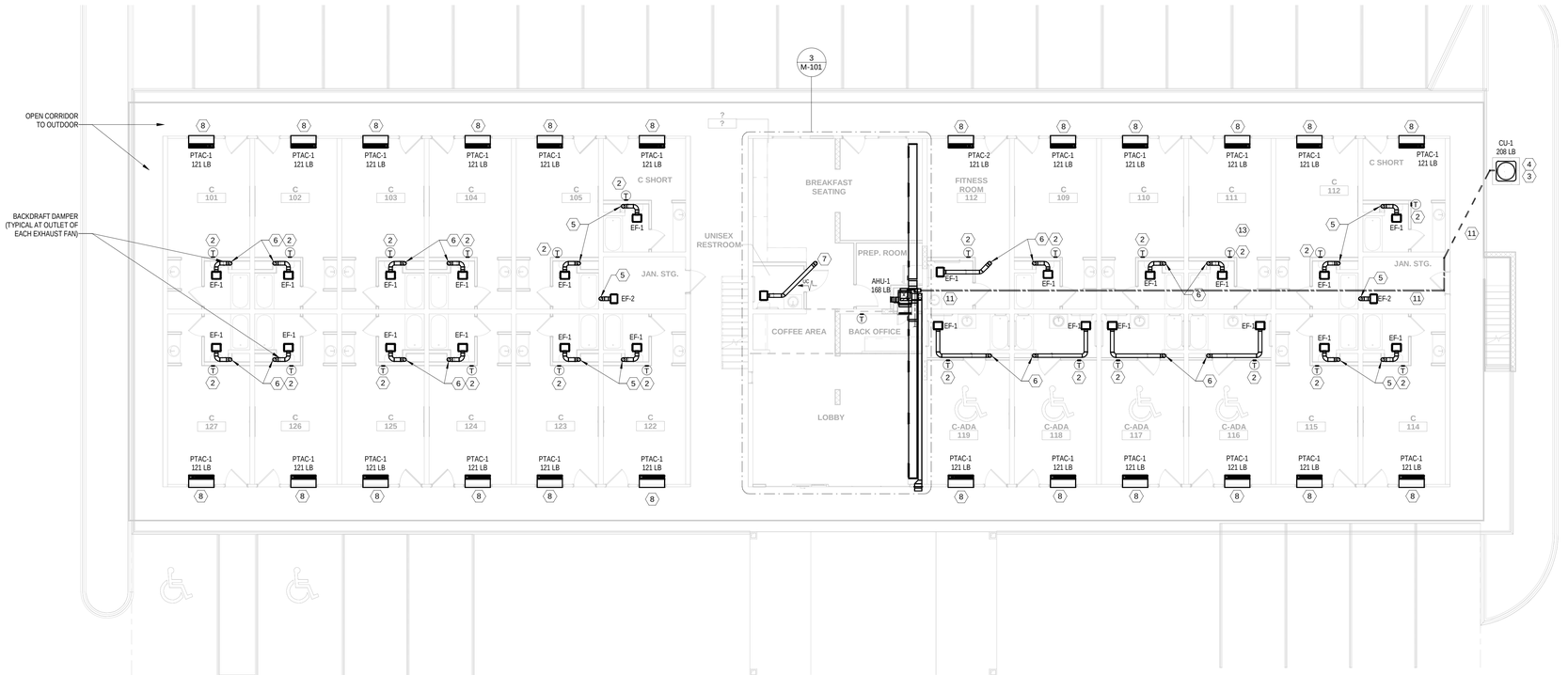
1. 10"x6" INTAKE AIR DUCT TO AHU-1 VIA 12"x12" WALL CAP.
2. ALL THERMOSTAT TO BE MOUNTED AT 48"-54" A.F.F. AND COORDINATE WITH LIGHTING CONTROL.
3. PROVIDE WITH A MINIMUM OF 6" THICK HURRICANE RATED CONCRETE PAD FOR OUTDOOR CONDENSING UNIT MOUNTED ON GRADE AND COORDINATE WITH MANUFACTURER FOR BRACING REQUIREMENTS AS PER SITE MAXIMUM WIND VELOCITY .
4. CONTRACTOR TO FIELD VERIFY AND LOCATE THE CONDENSING UNIT IN COORDINATION WITH THE LANDSCAPE AND MAINTAIN DISTANCE BETWEEN INDOOR AND OUTDOOR HVAC UNIT AND REFRIGERANTS PIPING LENGTH AS PER HVAC UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. 6" TOILET EXHAUST UP AND TERMINATE AT ROOF VIA GV-1.
6. 6" TOILET EXHAUST UP AND TERMINATE AT ROOF VIA GV-2.
7. 6" TOILET EXHAUST UP AND TERMINATE AT ROOF VIA GV-4.
8. NEW PTAC HVAC UNITS ARE SHOWN IN LOCATION OF PREVIOUSLY REMOVED PTAC UNIT. CONDENSATE DRAIN FOR NEW PTAC UNIT SHALL BE DISPOSED TO THE EXISTING CONDENSATE DRAIN LINE WHICH SERVED PREVIOUSLY REMOVED PTAC UNIT IN SAME LOCATION. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BEGINNING WORK.
9. DIRECT SUPPLY AIR TOWARDS CUSTOMER SITTING AREA.
10. CONTRACTOR TO FILED VERIFY, COORDINATE AND INSTALL ALL THE 6"ø HORIZONTAL EXHAUST DUCT IN ATTIC SPACE AND CONNECT TO RISER IN ATTIC SPACE.
11. REFRIGERANT PIPE SIZING AS PER MANUFACTURER RECOMMENDATION. CONTRACTOR TO FILED VERIFY, COORDINATE AND INSTALL ALL THE REFRIGERANT PIPING BELOW THE GRADE OUTSIDE THE BUILDING IN A 6" PVC CONDUIT AND RISE UP IN THE JANITOR CLOSET AS INDICATED ON PLANS. ROUTE THE PIPING HORIZONTALLY TO AIR HANDLER IN THE CEILING SPACE .
12. CONTRACTOR TO FIELD VERIFY AND INSTALL 1" CONDENSATE DRAIN PIPE OF AHU-1 AND CONNECT TO THE NEAREST EXISITNG CONDENSATE DRAIN POINT OF CONNECTION.



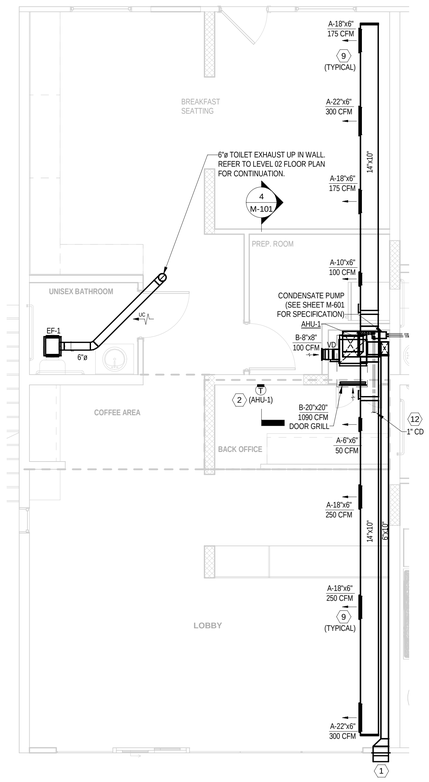
2 MECHANICAL FLOOR PLAN - BUILDING A - SECOND FLOOR
1/8" = 1'-0"



4 AHU - 1 SECTION
3/8" = 1'-0"



1 MECHANICAL FLOOR PLAN - BUILDING A - FIRST FLOOR
1/8" = 1'-0"



3 OFFICE AREA - ENLARGED PLAN
1/4" = 1'-0"

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MECHANICAL FLOOR PLAN - BUILDING A

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:43:22 -04'00'

E-SIGN

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MITESH K. SMART
PROF. ENGINEER

TO THE BEST OF THE ARCHITECTS KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 110.8.4.4 FBC-B AND CHAPTER 633, FLORIDA STATUES.

REV#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

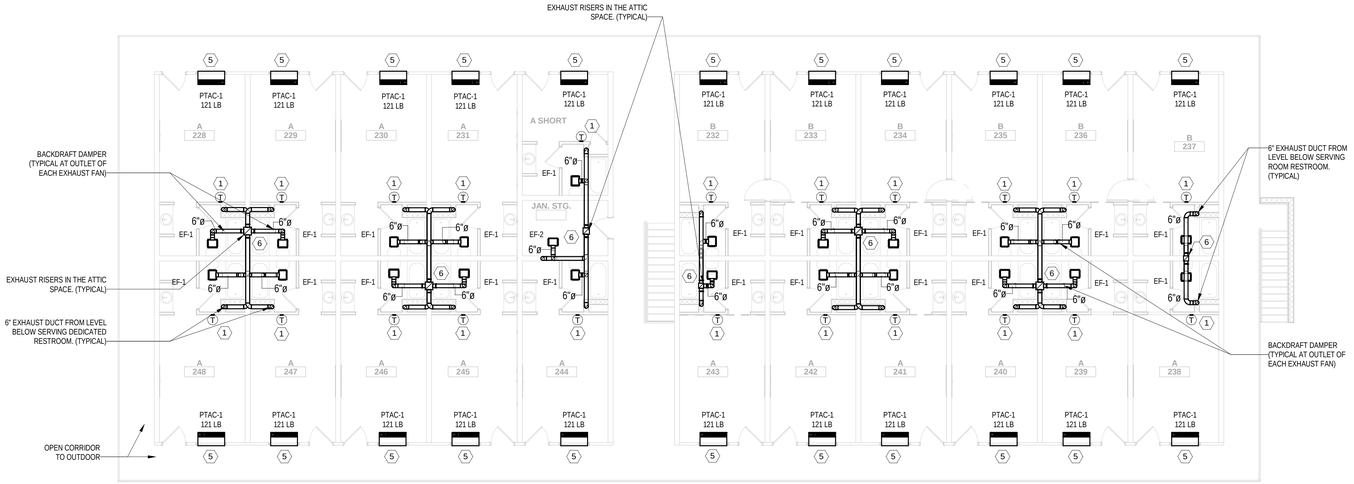
M-101

CONSTRUCTION DOCUMENTS

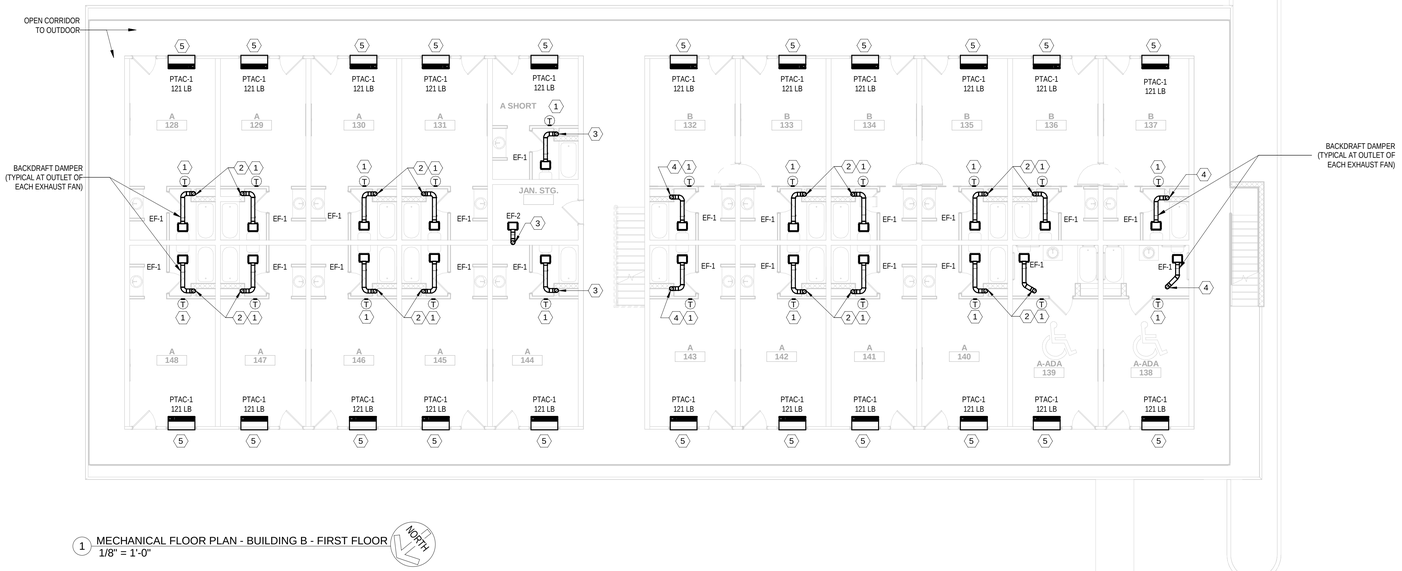
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KEY NOTES:

1. ALL THERMOSTAT TO BE MOUNTED AT 48"-54" A.F.F. AND COORDINATE WITH LIGHTING CONTROL.
2. 6" TOILET EXHAUST UP AND TERMINATE AT ROOF VIA GV-2.
3. 6" TOILET EXHAUST UP AND TERMINATE AT ROOF VIA GV-3.
4. 6" TOILET EXHAUST UP AND TERMINATE AT ROOF VIA GV-5.
5. NEW PTAC HVAC UNITS ARE SHOWN IN LOCATION OF PREVIOUSLY REMOVED PTAC UNIT. CONDENSATE DRAIN FOR NEW PTAC UNIT SHALL BE DISPOSED TO THE EXISTING CONDENSATE DRAIN LINE WHICH SERVED PREVIOUSLY REMOVED PTAC UNIT IN SAME LOCATION. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BEGINNING WORK.
6. CONTRACTOR TO FILED VERIFY, COORDINATE AND INSTALL ALL THE 6"ø HORIZONTAL EXHAUST DUCT IN ATTIC SPACE AND CONNECT TO RISER IN ATTIC SPACE.



2 MECHANICAL FLOOR PLAN - BUILDING B - SECOND FLOOR
1/8" = 1'-0"



1 MECHANICAL FLOOR PLAN - BUILDING B - FIRST FLOOR
1/8" = 1'-0"

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MECHANICAL FLOOR PLAN - BUILDING B

Mitesh Smart
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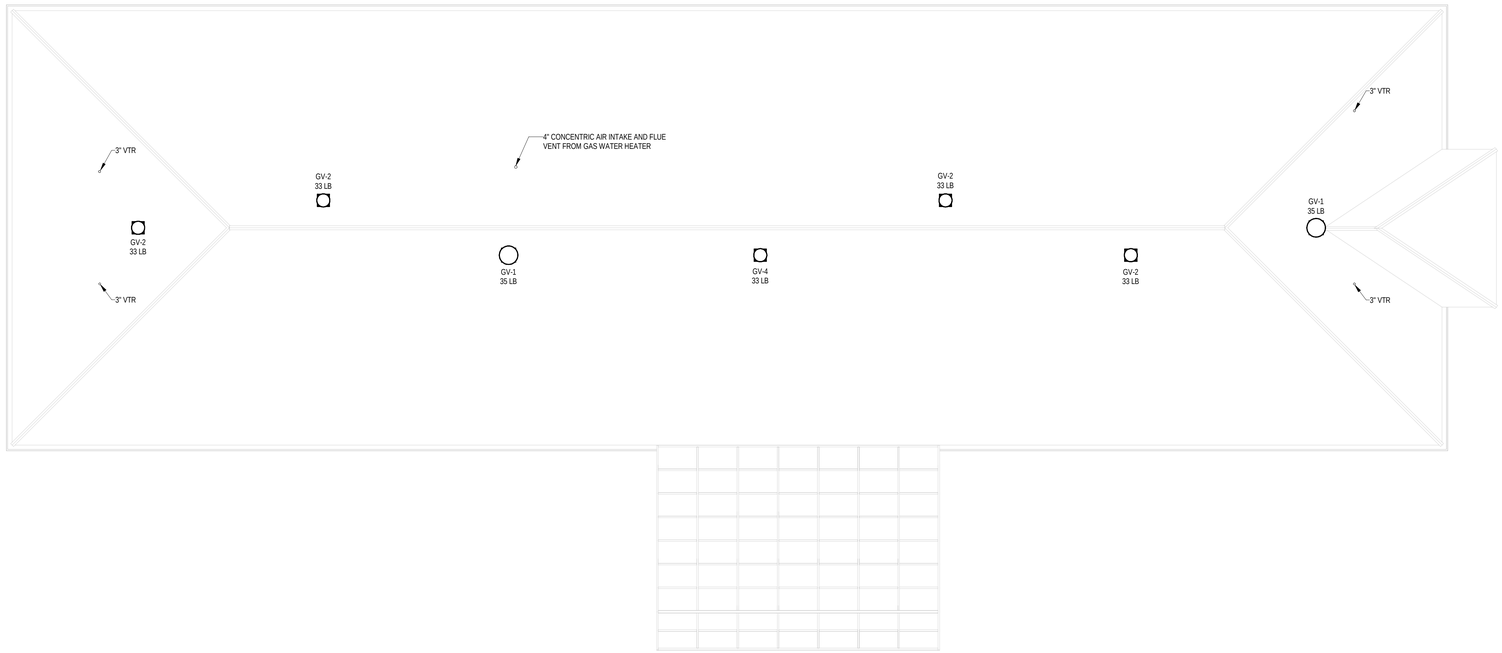
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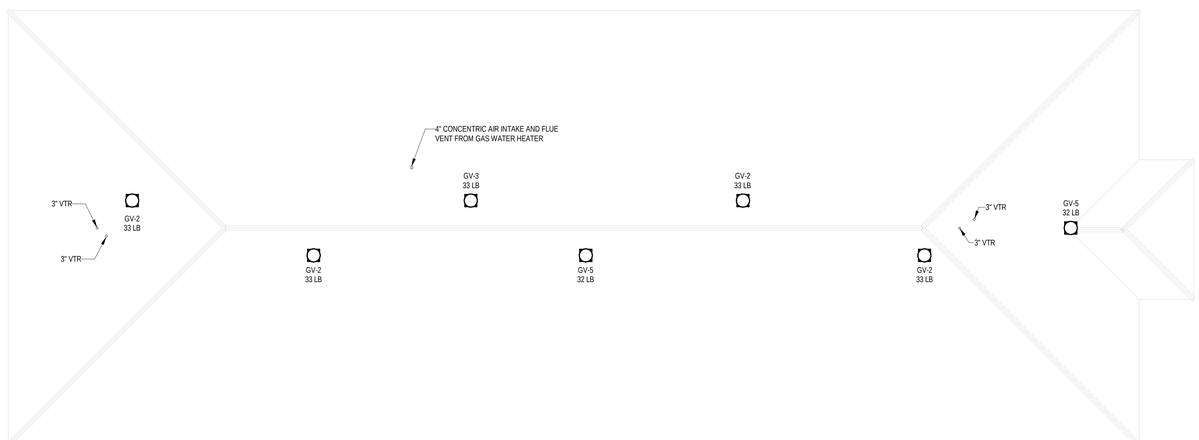
M-102

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1 MECHANICAL ROOF PLAN - BUILDING A
1/8" = 1'-0"



2 MECHANICAL ROOF PLAN - BUILDING B
1/8" = 1'-0"

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MECHANICAL ROOF PLAN

Mitesh Smart
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Date: 2023.01.27 06:44:17 -04'00'

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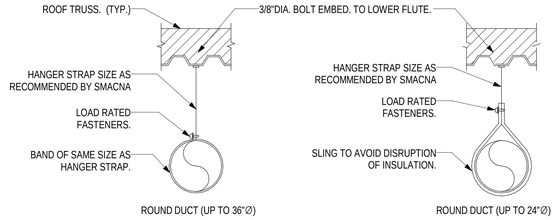
01-27-2023

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M-103

CONSTRUCTION DOCUMENTS

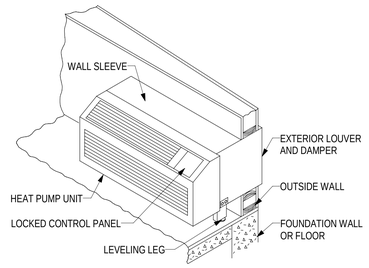
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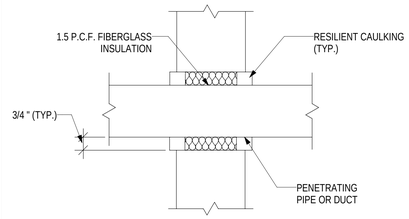
NOTE:

1. SUPPORTS TO BE CONSTRUCTED PER SMACNA STANDARDS.

04 DUCT HANGER DETAILS
N.T.S.



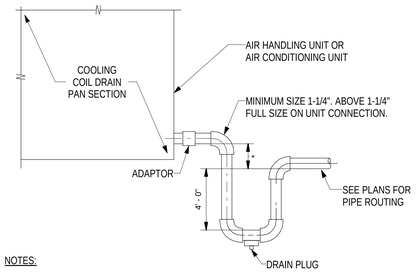
03 PACKAGED THROUGH WALL TERMINAL HEAT PUMP DETAIL
N.T.S.



NOTES:

1. CENTER DUCT/PIPE IN OPENING AND KEEP SPACE CLEAR OF ANY FOREIGN MATERIAL.
2. PROVIDE AT ALL PENETRATIONS OF DUCTS/PIPES THROUGH FULL HEIGHT NON-RATED WALLS UNLESS NOTED OTHERWISE.

02 DUCT OR PIPE PENETRATION THROUGH WALL
N.T.S.

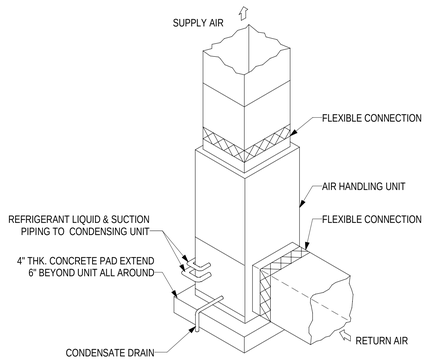


NOTES:

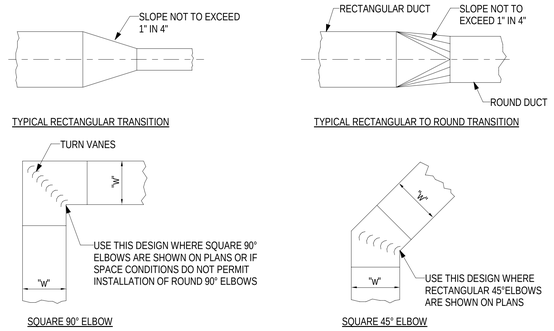
TRAP AND DRAIN PIPING SIZE TO BE THE LARGER OF THE DRAIN PAN OUTLET SIZE OR THE FOLLOWING.

COOLING CAPACITY (TONS)	MINIMUM CONDENSATE PIPE DIA.(IN.)
UP TO 20	3/4"
21-40	1"
41-90	1-1/4"
91-125	1-1/2"
126-250	2"

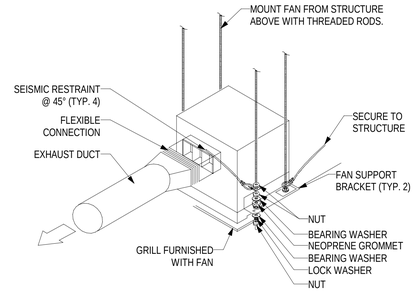
01 CONDENSATE DRAIN PIPING DETAIL
N.T.S.



07 VERTICAL AIR HANDLING UNIT DETAIL
N.T.S.



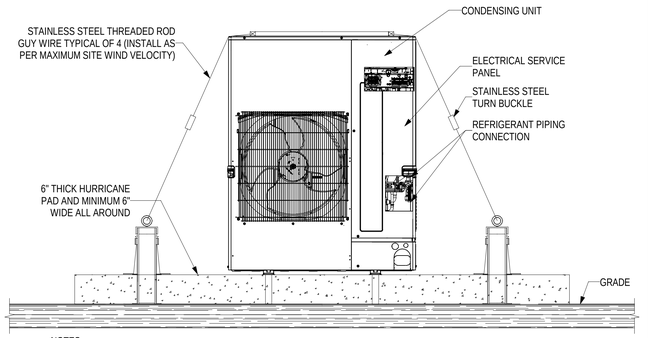
06 CONSTRUCTION OF DUCT FITTING
N.T.S.



NOTE:

1. ALL NUTS/WASHERS/GROMMETS TYPICAL OF 4 CORNER SUPPORTS.

05 CEILING EXHAUST FAN DETAIL
N.T.S.



NOTES:

GENERAL CONTRACTOR / MECHANICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER FOR WIND BRACING REQUIREMENTS AS PER SITE MAXIMUM WIND VELOCITY AND ALL APPLICABLE CODES AND JURISDICTIONS.

08 CONDENSING UNIT MOUNTED AT GRADE DETAIL
N.T.S.

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COA #6797

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LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

MECHANICAL DETAILS

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:44:50 -04'00'

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REV#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

M-501

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GRAVITY VENTILATOR SCHEDULE

UNIT TAG	GV-1	GV-2	GV-3	GV-4	GV-5
TYPE	RELIEF	RELIEF	RELIEF	RELIEF	RELIEF
AIR FLOW (CFM)	570	400	370	300	200
STATIC PRESSURE (IN W.G.)	0.06	0.06	0.05	0.033	0.03
THROAT AREA (SQ. FT.)	1.00	1.00	0.57	1.00	0.37
THROAT VELOCITY (FT./MIN)	695	702	649	526	541
DIMENSION WITH CURB HEIGHT LxWxH (IN.)	29x29x22	21x21x20	21x21x20	21x21x20	21x21x20
WEIGHT (LB)	35	33	33	33	32
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	GRSR-12	GRSR-10	GRSR-10	GRSR-10	GRSR-8

NOTES:
1. PROVIDE WITH ALUMINUM BIRD SCREEN.
2. PROVIDE WITH INSULATED CURB, INSTALL UNIT LEVELLED ON ROOF, VERIFY ROOF SLOPE IN FIELD.
3. INSTALLATION AS PER SITE SEISMIC DESIGN CATEGORY AND MAXIMUM WIND VELOCITY REQUIRMENTS.

AIR DISTRIBUTION DEVICE SCHEDULE

UNIT TAG	FACE SIZE	NECK SIZE	CFM RANGE	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	8"x8"	6"x6"	000-076	TITUS	300-FL	SUPPLY AIR GRILLE MATERIAL - ALUMINUM
	12"x8"	10"x6"	077-136			
	14"x8"	12"x6"	137-164			
	20"x8"	18"x6"	165-252			
	24"x8"	22"x6"	253-308			
B	10"x10"	8"x8"	000-185	TITUS	350-FL	RETURN AIR GRILLE MATERIAL - ALUMINUM
	22"x22"	20"x20"	186-1285			

SPLIT SYSTEM HEAT PUMP SCHEDULE

	NOMINAL SYSTEM CAPACITY (TONS)	4
	SUPPLY AIR (CFM)	1600
	REQUIRED OUTDOOR AIR (CFM)	360
	MIN EFFECIENCY (SEER)	16
	HSPF	9.6
	EXTERNAL STATIC PRESSURE (IN W.G.)	0.7
INDOOR UNIT	UNIT TAG	AHU-1
	COOLING CAPACITY (MBH)	46.5
	HEATING CAPACITY (MBH) @ 47 DEF F	44.5
	AUXILIARY ELECTRIC HEATER (KW/MBH)	3.60/12.30
	FAN HP	0.75
	MCA / MOCP	30/30
	ELECTRICAL SERVICE V/PH/HZ	208/1/60
	DIMENSION LxWxH (IN)	22x27x54
	OPERATING WEIGHT (LBS)	168
	MANUFACTURER	TRANE
	MODEL NUMBER	TEM6A0D48H41
	UNIT NOTES	1,2,3,4,6,7,8
OUTDOOR UNIT	UNIT TAG	CU-1
	ELECTRICAL SERVICE V/PH/HZ	208/1/60
	MCA / MOCP	26/40
	DIMENSION LxWxH (IN)	38x35x51
	OPERATING WEIGHT (LBS)	250
	MANUFACTURER	TRANE
	MODEL NUMBER	4TWR6048H1
	UNIT NOTES	5,9,10,11,12

NOTES:
1. PROVIDE REMOTE WIRED WALL MOUNTED PROGRAMMABLE DIGITAL THERMOSTAT.
2. PROVIDE LOW VOLTAGE PIGTAIL CONNECTION.
3. PROVIDE WITH FUSED 24V POWER.
4. PROVIDE DRAW THROUGH DESIGN.
5. PROVIDE LOW AMBIENT COOLING CONTROL DOWN TO 30 ' F.
6. R410 REFRIGERANT
7. PROVIDE WITH A CONDENSATE DRAIN PUMP "VCMX-20 SERIES" BY LITTLE GIANT OF 20 FT HEAD AND ELECTRICAL REQUIREMENTS 1.5 A, 115/1/60 (V/PH/HZ) OR EQUAL.
8.UNIT SHALL BE PROVIDE WITH A MINIMUM OF MERV 8 FILTER.
9. PROVIDE WITH FACTORY COASTAL CORROSION PROTECTION ON OUTDOOR UNIT.
10. COORDINATE EXACT LOCATION OF UNIT WITH OWNER.
11. PROVIDE N.E.C. APPROVED HACR CIRCUIT BREAKERS OR FUSES.
12. REFER TO MANUFACTURERS DRAWINGS FOR ADDITIONAL INFORMATION.

PACKAGED TERMINAL HEAT PUMP SCHEDULE

UNIT DESIGNATION		PTAC-1	PTAC-2
S/A FAN	SYSTEM TYPE	HEATPUMP	HEATPUMP
	SUPPLY AIR (CFM)	341	341
	MIN OUTDOOR AIR (CFM)	30	60
	MIN EFFECIENCY (EER)	11.6	11.6
	COP	3.4	3.4
COOLING CAPACITY	GROSS COOLING CAPACITY (MBH)	11.6	11.6
	NOMINAL TONS	1	1
HEAT PUMP HEATING	HEATING CAPACITY (MBH)	10.4	10.4
ELECTRIC REHEAT	HEATING CAPACITY (MBH)	17.0	17.0
	HEATING CAPACITY (KW)	5	5
ELECTRIC RATING	V/PH/HZ	208/1/60	208/1/60
	MCA / MOCP	24 / 30	24 / 30
GENERAL INFORMATION	DIMENSION LxWxH (IN)	45x25x19	45x25x19
	WEIGHT (LBS)	121	121
	MANUFACTURER	TRANE	TRANE
	MODEL NUMBER	PTHF1201HAA	PTHF1201HAA
	UNIT NOTES	ALL	ALL

NOTES:
1. PROVIDED WITH REMOTE WIRED WALL MOUNTED PROGRAMMABLE DIGITAL THERMOSTAT.
2. UNIT SHALL BE WITH AUTOMATIC ROOM FREEZE PROTECTION.
3. PROVIDED WITH 24 HOURS ON/OFF TIMER.
4. PROVIDED WITH MULTISPEED FAN ARRANGEMENT.
5. PROVISION OF SEACOAST-COATED COIL PROTECTION.
6. R-410 REFRIGERANT.
7. UNIT SHALL HAVE MECHANICAL VENTILATION AIR CAPABILTY.
8. REFER TO MANUFACTURERS DRAWINGS FOR ADDITIONAL INFORMATION.

FBC ENERGY CONSERVATION CODE, C403.2.1 CALCULATION OF HEATING AND COOLING LOADS

PROJECT NAME - LA BRISA INN
PROJECT ADDRESS - 5711 EAST HIGHWAY 98, PANAMA CITY, FLORIDA 32404
SIZING METHOD USED - TETD/TA (TOTAL EQUIVALENT TEMPERATURE DIFFERENCE/TIME AVERAGING)
SUMMER OUTDOOR DRY BULB USED (0.4%) : 91.3°F
SUMMER OUTDOOR WET BULB USED (0.4%) : 78.8 °F
WINTER OUTDOOR DRY BULB USED (99.6%) : 31.5 °F
WINTER OUTDOOR WET BULB USED (99.6%) : 28.3 °F
INDOOR DESIGN TEMPERATURE (SUMMER) OCCUPIED MODE : 75 °F
INDOOR DESIGN TEMPERATURE (SUMMER) UNOCCUPIED MODE : 80 °F
RELATIVE HUMIDITY : 55% RH
INDOOR DESIGN TEMPERATURE (WINTER) OCCUPIED MODE : 70 °F
INDOOR DESIGN TEMPERATURE (WINTER) UNOCCUPIED MODE : 65 °F
CLIMATE ZONE - 2A

ZONE	AREA (FT²)	COOLING CAPACITY			GRAINS OF WATER/LB OF AIR			HEATING CAPACITY
		TOTAL (MBH)	SENSIBLE (MBH)	LATENT (MBH)	ENTERING	LEAVING	DIFFERENCE	TOTAL (MBH)
PTAC-1	270	5.8	4.8	1	84.7	63.7	21	6
PTAC-2	270	9.1	4.7	4.4	103.8	67.7	36.1	3.9
AHU-1	1043	46.6	27.8	18.8	93.4	69.9	23.5	24.1

* ABOVE LISTED CAPACITIES INCLUDE OUTSIDE AIR REQUIRED TO MEET FBC MECHANICAL.

EXHAUST FAN SCHEDULE

UNIT TAG	EF-1	EF-2
LOCATION	RESTROOM	JANITOR
TYPE	CEILING TYPE	CEILING TYPE
DRIVE TYPE	DIRECT	DIRECT
ACTUAL AIRFLOW (CFM)	50	85
TOTAL STATIC PRESSURE (IN. W.G.)	0.3	0.3
FAN SPEED (RPM)	808	1063
FAN HP	0.008	0.025
SONES	1	0.8
ELECTRICAL SERVICE V/PH/HZ	115/1/60	115/1/60
FLA	0.29	0.18
DIMENSION LxWxH (IN)	11x13x9	11x13x9
WEIGHT (LBS)	12	17
MANUFACTURER	GREENHECK	GREENHECK
MODEL NUMBER	SP-A50-90-VG	SP-A125
UNIT NOTES	ALL	ALL

NOTES:
1. DISCONNECT SWITCH SHALL BE INTERNAL AND PLUG-IN TYPE.
2. GRILLE SHALL BE OF ALUMINUM WITH WHITE ENAMEL FINISH.
3. FAN HOUSING CONSTRUCTED OF GALVANIZED STEEL.
4. PROVIDE WITH TIME DELAY SWITCH, ON A DELAY OF 1 TO 60 MINUTES AFTER THE LIGHT ON FAN HAS BEEN TURNED OFF.
5. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.

VENTILATION SCHEDULE

SPACE	TYPE	NET AREA Az (SF)	NO. OF PEOPLE (ROUNDED) Pz	OUTDOOR AIR RATE PEOPLE Rp (CFM/Person)	OUTDOOR AIR RATE AREA Ra (CFM/SF)	OUTDOOR AIRFLOW RATE REQUIRED IN THE BREATHING ZONE Vbz (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS Ez	ZONE OUTDOOR AIRFLOW Voz(m) = Voz (CFM)	APPROX. OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)
AHU-1									
LOBBY	Offices: Office spaces	**427**	10	5	0.06	76	1	76	80
BACK OFFICE	Offices: Office spaces	**59**	1	5	0.06	9	1	9	10
PREP. ROOM	General: Break rooms	**71**	1	5	0.06	9	1	9	10
COFFEE AREA	General: Coffee stations	**103**	0	5	0.06	6	1	6	10
BREAKFAST SEATTING	Food and beverage service: Dining rooms	**383**	24	7.5	0.18	249	1	249	250
TOTAL									**360**
PTAC-1									
UNIT A	Hotels, motels, resorts and dormitories: Bedroom/living room	**265**	2	5	0.06	26	1	26	30
TOTAL									**30**
PTAC-1									
UNIT A-ADA	Hotels, motels, resorts and dormitories: Bedroom/living room	**265**	2	5	0.06	26	1	26	30
TOTAL									**30**
PTAC-1									
UNIT A-SHORT	Hotels, motels, resorts and dormitories: Bedroom/living room	**180**	2	5	0.06	21	1	21	30
TOTAL									**30**
PTAC-1									
UNIT B	Hotels, motels, resorts and dormitories: Bedroom/living room	**265**	2	5	0.06	26	1	26	30
TOTAL									**30**
PTAC-1									
UNIT C	Hotels, motels, resorts and dormitories: Bedroom/living room	**270**	2	5	0.06	26	1	26	30
TOTAL									**30**
PTAC-1									
UNIT C-ADA	Hotels, motels, resorts and dormitories: Bedroom/living room	**270**	2	5	0.06	26	1	26	30
TOTAL									**30**
PTAC-1									
UNIT C-SHORT	Hotels, motels, resorts and dormitories: Bedroom/living room	**180**	2	5	0.06	21	1	21	30
TOTAL									**30**
PTAC-2									
FITNESS	Sports and amusement: Health club/weight room	**270**	2	20	0.06	56	1	56	60
TOTAL									**60**

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LA BRISA INN
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MECHANICAL SCHEDULES

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:45:22 -04'00'

E-SIGN

MITESH K. SMART LICENSE No.52772 STATE OF FLORIDA PROFESSIONAL ENGINEER
SEAL

MITESH K. SMART
PROF. ENGINEER

TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 110.8.4.4 FBC-B AND CHAPTER 633, FLORIDA STATUES.

REV#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER
M-601

CONSTRUCTION DOCUMENTS

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PLUMBING SPECIFICATIONS

GENERAL PROVISIONS:

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT WARRANTIES. PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE PLUMBING WORK WITH ELECTRICAL WORK, AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL MECHANICAL EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.

UTILITY CONNECTIONS: COORDINATE THE CONNECTION OF PLUMBING SYSTEMS WITH EXTERIOR UNDERGROUND UTILITIES AND SERVICES. COMPLY WITH THE REQUIREMENTS OF GOVERNING REGULATIONS, FRANCHISED SERVICE COMPANIES AND CONTROLLING AGENCIES. PROVIDE A SINGLE CONNECTION FOR EACH SERVICE EXCEPT WHERE MULTIPLE CONNECTION ARE INDICATED.

DOMESTIC WATER PIPING SYSTEM:

ALL DOMESTIC HOT AND COLD WATER PIPING SHALL BE COPPER TYPE L COMPLYING WITH ASTM B 88 WITH WROUGHT COPPER SOLDER JOINT FITTINGS. SHUTOFF VALVES TO BE 2-PIECE FULL PORT BRONZE BODY BALL TYPE WITH SOLDERED JOINTS. ALL JOINTS TO BE MADE WITH A LEAD FREE SOLDER CONFORMING TO ASTM B 32 AND A WATER SOLUBLE FLUX CONFORMING TO ASTM B 813. ALL CUT ENDS SHALL BE REAMED TO FULL INSIDE DIAMETER OF PIPE. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS TO DISSIMILAR METALS. PIPING SUPPORTS TO BE COPPER CLEVIS HANGERS WITH ALL THREAD ROD AND APPROPRIATE BUILDING ATTACHMENT TO MATCH SPECIFIC CONSTRUCTION. HANGER SPACING TO BE 10 FEET HORIZONTAL 10 FEET VERTICAL FOR 1-1/2" AND LARGER, 6 FEET HORIZONTAL 10 FEET VERTICAL FOR 1-1/4" AND SMALLER.

WATER HAMMER ARRESTERS SHALL BE BELLOWS TYPE; PRECHARGED COMPRESSOR CHAMBER; STAINLESS STEEL CASING AND BELLOWS. PROVIDE SIZES COMPLYING WITH PDI STANDARD WH-201. JOSAM 75000 SERIES, JAY R. SMITH FIG 5000, OR ZURN 1700 SERIES.

BALL VALVES: BALL VALVES SHALL HAVE TWO-PIECE BRONZE OR BRASS BODY, MEETING MSS-SP110, FULL OR STANDARD PORT, BLOWOUT-PROOF STEM AND ADJUSTABLE PACKING NUT INDEPENDENT OF HANDLE. VALVES SHALL BE RATED FOR 150 SWP, 600 WOG OR 300 CWP. VALVES SHALL BE BY APOLLO, MILWAUKEE, NIBCO, VICTAULIC, WATTS OR RED-WHITE.

GATE VALVES: VALVES 3 INCHES AND SMALLER SHALL BE ALL BRONZE, MEETING MSS-SP80, INSERTED BONNET, SOLID WEDGE, NON-RISING STEM TYPE AND RATED AT 125 SWP, 200 WOG. HANDLES SHALL BE MALLEABLE IRON WITH BRONZE STEM. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

GLOBE VALVES: VALVES 3 INCHES AND SMALLER SHALL BE ALL BRONZE, MEETING MSS-SP80, INSERTED BONNET WITH INTEGRAL SEAT AND RENEWABLE DISC. VALVES SHALL BE RATED AT 125 SWP, 200 WOG. HANDLES SHALL BE MALLEABLE IRON WITH BRONZE STEM. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

CHECK VALVES: VALVES 2 INCHES AND SMALLER SHALL BE BRONZE BODY WITH BRONZE SEAT AND DISC AND SHALL BE RATED AT 125 SWP, 200 WOG. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

INSULATION SYSTEMS:

PIPE INSULATION 1/2" OR LESS SHALL BE CLOSED-CELL FOAM INSULATION.
PIPING INSULATION 3/4" OR MORE SHALL BE FIBERGLASS WITH ALL-SERVICE JACKET FINISH.

PIPE INSULATION REQUIREMENTS

PIPE TYPE	PIPE SIZE	INSULATION THICKNESS
COLD (COPPER)	1/2" TO 1-1/2"	1/2"
HOT	ALL SIZES	1" ***
HOT WATER RECIRC	ALL SIZES	1" ***

***INSULATION IS REQUIRED BY ENERGY CODE AND MAY NOT BE OMITTED FOR ANY REASON.

COPPER COLD WATER PIPE INSULATION MAY BE OMITTED WHERE INSTALLED IN A SPACE WHICH WILL NOT BECOME WARM OR HUMID ENOUGH FOR PIPES TO CONDENSE. DO NOT COVER PIPING SYSTEMS BEFORE PIPE HAS BEEN HYDROSTATICALLY TESTED.

HOT WATER SYSTEM BALANCE:

PLUMBING CONTRACTOR SHALL PROVIDE BALANCING VALVE, TEMP/PRESSURE VALVES, & FLOW PORTS AS NECESSARY TO MONITOR BUILDING HOT WATER SYSTEM(S). TEMP/PRESSURE VALVES AND FULL SIZE FLOW PORTS SHALL BE PROVIDED BETWEEN RECIRCULATION PUMP AND WHEREVER DHWR PIPES JOIN INTO MAIN BRANCHES TO MONITOR AND BALANCE HOT WATER SYSTEM. ALL BALANCING VALVES SHALL BE INITIALLY SET PER APPROXIMATE FLOW RATES ON PLANS. SYSTEM SHALL BE REVIEWED & ADJUSTED AS NECESSARY TO ACHIEVE SPECIFIED HOT WATER TEMPERATURES AT ALL POINTS OF USE.

SOIL, WASTE AND VENT PIPING SYSTEM:

ALL SANITARY DRAIN AND VENT PIPING ABOVE AND BELOW GRADE SHALL BE SCHEDULE 40 PVC TYPE DWV PLAIN END PIPE CONFORMING TO ASTM D 2665 AND ASTM D 2949 WITH PVC DWV TYPE SOCKET JOINT FITTINGS CONFORMING TO ASTM D 3311. SOLVENT CEMENT JOINTS SHALL BE CLEANED AND FREE FROM MOISTURE WITH A PRIMER CONFORMING TO ASTM F 656 LEAVING A VISIBLE PURPLE COLOR AFTER DRYING. SOLVENT CEMENT SHALL CONFORM TO ASTM D 2546 AND BE APPLIED TO ALL JOINTS AND JOINTS MADE WHILE SURFACES ARE WET IN ACCORDANCE WITH ASTM D 2855. ALL PIPING TO BE PITCHED AT A MINIMUM SLOPE OF 1/4" PER FOOT FOR SIZES 2-1/2" OR LESS, 1/8" PER FOOT FOR SIZES 3" TO 6" AND 1/16" PER FOOT FOR SIZES 8" AND LARGER.

GAS PIPING SYSTEM:

ALL MATERIALS, INSTALLATION AND WORKMANSHIP SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS AND STANDARDS ADDRESSED WITHIN THE FOLLOWING REFERENCES.
1. 2020, 7TH EDITION OF FLORIDA FUEL GAS CODE.
2. LATEST EDITION OF NFPA 54

GAS MANIFOLD AUTOMATIC AND MANUAL SHUTOFF VALVES:
PROVIDE AUTOMATIC (SOLENOID OPERATED) AND MANUAL (QUARTER-TURN FULL SHUTOFF BALL VALVE) SHUTOFF VALVES ON THE GAS SUPPLY RISER AHEAD OF THE DISTRIBUTION MANIFOLD.

PIPES, TUBES, AND FITTINGS
STEEL PIPE: ASTM A 53/A 53M, BLACK STEEL, SCHEDULE 40, TYPE S SEAMLESS, GRADE B.
1. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN.
2. WROUGHT-STEEL WELDING FITTING: ASTM A 234/A 234M FOE BUTT WELDING AND SOCKET WELDING.
3. UNIONS: ASME B16.39, CLASS 150, MALLEABLE IRON WITH BRASS-TO-IRN SEAT, GROUND JOINT, AND THREADED ENDS.

ALL VALVES SHALL BE DESIGNED, MANUFACTURED AND APPROVED FOR NATURAL GAS SERVICE.

VALVE INSTALLATION:
1. INSTALL REGULATORS AND OVERPRESSURE PROTECTION DEVICES WITH MAINTENANCE ACCESS SPACE ADEQUATE FOR SERVICING AND TESTING.

PLUMBING LEGENDS

CD	COND. DRAIN
CW	COLD WATER SUPPLY
HW	HOT WATER SUPPLY
SAN	SANITARY
V	VENT
	DIRECTION OF FLOW IN PIPE
	PIPE UP
	PIPE DN
	TEE UP
	TEE DN
	CAP
	P-TRAP
	CLEAN OUT/PLUG
	CHANGE IN PIPE ELEVATION
	90° ELBOW
	WALL HYDRANT
	HOSE BIBB
	FLOOR DRAIN
	FLOOR CLEANOUT
	2-WAY EXTERIOR CLEANOUT
	WALL CLEANOUT
	TRENCH DRAIN
	PIPE SLOPE ARROW
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PUMP
	3 WAY VALVE
	BACKFLOW PREVENTERS
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	CONTROL VALVE
	DIAPHRAGM VALVE
	GATE VALVE
	GLOBE VALVE
	MULTI-PURPOSE VALVE
	PLUG VALVE
	RELIEF VALVE
	STEAM TRAPS
	VACCUME BREAKER VALVE
	SOLENOID VALVE
	STRAINER
	PIPE UNION
	AUTOMATIC AIR VENT
	PRESSURE GAUGE
	THERMOMETER
	FLOW SWITCH
	PRESSURE SWITCH
	TEMPERATURE SWITCH
	CONNECT TO EXISTING

PLUMBING NOTES

1. THE PLUMBING SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
2. DRAWINGS ARE DIAGRAMMATIC. INDICATED POSITIONS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, EXACT EQUIPMENT LOCATIONS AND PIPING ROUTING SHALL BE SUBJECT TO BUILDING CONSTRUCTION AND INTERFERENCES WITH OTHER TRADES.
3. PROVIDE RPZ BACKFLOW PREVENTORS IN ACCORDANCE WITH LOCAL CODES.
4. PIPE PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE CONSTRUCTED PER APPLICABLE U.L. CONSTRUCTION DETAIL(S).
5. DRAWING INDICATE APPROXIMATE ROUTING OF PIPING AND DO NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES ETC. CONTRACTOR SHALL FIELD VERIFY PIPE SIZES AND FINAL CONNECTION. COORDINATE LOCATIONS OF PIPING WITH LIGHTING, STRUCTURAL MEMBERS AND DUCTWORK ETC. PROVIDE OFFSETS OR RELOCATE PIPING AS REQUIRED TO AVOID CONFLICTS WITH WORK OF ALL OTHER TRADES.
6. SUPPORT ALL PIPING, EQUIPMENT, ETC. FROM BUILDING STRUCTURAL MEMBERS. DO NOT USE WIRE OR PERFORATED METAL TO SUPPORT PIPING. DO NOT SUPPORT PIPING FROM OTHER PIPING, DUCTWORK, AND/OR ELECTRICAL CONDUITS.
7. ALL PLUMBING WORK SHALL BE LOCATED ABOVE CEILINGS, IN PIPE CHASE, OR OTHER CONCEALED ACCESSIBLE LOCATIONS UNLESS NOTED OTHERWISE. LOCATE AND ARRANGE VALVES, DRAIN FITTINGS, ETC. TO BE ACCESSIBLE THROUGH LAY-IN CEILINGS, ACCESS PANELS OR ACCESS DOORS. PROVIDE AN ACCESS PANEL OR DOOR AS SPECIFIED FOR ALL NON- ACCESSIBLE INSTALLATIONS.
8. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
9. ALL INVERT ELEVATIONS NOTED ARE FROM TOP OF SLAB.
10. ALL INDIRECT DRAIND AND PUMPED DISCHARGE TERMINATIONS SHALL HAVE 45 DEGREE ANGLE CUT AT OUTLET.
11. PLUMBING SYSTEM PIPING SHALL NOT BE INSTALLED IN ELEVATOR SHAFTS, ELEVATOR MACHINE ROOMS, ELECTRICAL ROOMS AND INFORMATION TECHNOLOGY (LOW VOLTAGE) ROOMS, EXCEPTION-ELEVATOR SUMP PUMP DISCHARGE PIPING. CONTACT ARCHITECT/ENGINEER PRIOR TO INSTALLATION OF ANY OTHER PIPING.
12. ALL SANITARY STACKS, VENT STACKS, AND STORM INTERIOR DOWNSPOUTS SHALL BE INSTALLED TIGHT TO STRUCTURE AT LOCATIONS DROPPING ALONG SIDE COLUMNS, CORNERS, ETC.
13. PROVIDE CLEAN-OUTS AT BASES OF AND AT HORIZONTAL OFFSETS OF ALL SANITARY STACKS AND STORM DOWNSPOUTS/LEADERS.
14. ALL VALVES MUST BE ACCESSIBLE, IF LOCATED ABOVE DRYWALL CEILING OR BEHIND FINISHED WALLS, PROVIDE ACCESS DOOR. COORDINATE ALL ACCESS DOOR LOCATIONS WITH ARCHITECT.
15. UNLESS NOTED OTHERWISE ALL VERTICAL PIPING DROPS TO FIXTURES, HOSE BIBB, FAUCETS, ETC. MUST BE CONCEALED IN THE WALL.
16. INSULATE PIPING PER SPECIFICATIONS. COORDINATE ANY/ALL INSTALLATIONS WITH ARCHITECT/ENGINEER.
17. PLUMBING VENT TERMINATIONS MUST BE LOCATED AT LEAST 10 FEET FROM HVAC EQUIPMENT OUTSIDE AIR INTAKES.
18. WHERE A FLOOR DRAIN/SINK IS INSTALLED ADJACENT TO EQUIPMENT FOR DRAINING PURPOSES, THE EXACT LOCATION OF THE FLOOR DRAIN/SINK MUST BE COORDINATED IN THE FIELD WITH INSTALLED PIECE OF EQUIPMENT EXACT ELEVATIONS OF FLOOR DRAINS/SINKS MUST BE COORDINATED IN THE FIELD WITH FINISHED FLOOR LEVELS AND SLOPES.

PLUMBING ABBREVIATIONS

AC	ABOVE CEILING	HWR	HOT WATER RETURN
AD	AREA DRAIN	IMB	ICE MAKER BOX
AFF	ABOVE FINISHED FLOOR	IWH	INSTANTANEOUS WATER HEATER
AHAP	AS HIGH AS POSSIBLE	LT	LAUNDRY TUB
BFP	BACKFLOW PREVENTION DEVICE	L	LAVATORY
BF	BELOW FLOOR	MS	MOP SINK
BG	BELOW GRADE	NTS	NOT TO SCALE
BOP	BOTTOM OF PIPE	ORD	OVERFLOW ROOF DRAIN
BT	BATH TUB	PC	PLUMBING CONTRACTOR
BTUH	BRITISH THERMAL UNITS PER HOUR	PRV	PRESSURE RELIEF VALVE
C	CONDENSATE	S	SANITARY
CP	CONDENSATE PUMP	P	PUMP
CV	CONTROL VALVE	RCP	RECIRCULATION PUMP
CWS	COLD WATER SUPPLY	RD	ROOF DRAIN
DW	DISHWASHER	SS	SERVICE SINK
DN	DOWN	SH	SHOWER
ES	EJECTOR SUMP	SK	SINK
EWC	ELECTRIC WATER COOLER	ST	STORM
EEW	EMERGENCY EYE WASH	SF	SQUARE FOOT
ET	EXPANSION TANK	SP	SUMP PUMP
FCO	FLOOR CLEANOUT	TD	TRENCH DRAIN
FD	FLOOR DRAIN	TMV	THERMOSTATIC MIXING VALVE
FS	FLOOR SINK	MBH	THOUSANDS OF BTU PER HOUR
GPM	GALLONS PER MINUTE	U.N.O	UNLESS NOTED OTHERWISE
GWH	GAS WATER HEATER	VTR	VENT THRU ROOF
HB	HOSE BIBB	WCO	WALL CLEANOUT
HD	HUB DRAIN	WC	WATER CLOSET
HWCP	HOT WATER RECIRCULATION PUMP	WD	WASHER DRYER
HWS	HOT WATER SUPPLY	WHA	WATER HAMMER ARRESTOR

MINIMUM SLOPE REQUIREMENTS

SIZE (Inches)	MINIMUM SLOPE (Inch per foot)
2 1/2 or less	1/4
3 to 6	1/8
8 or larger	1/16

GENERAL NOTES

1. ALL WORK SHALL BE PROVIDED IN ACCORDANCE WITH CODES AND STANDARDS REFERENCED THROUGHOUT THE SPECIFICATIONS. COMPLY WITH OWNERS DESIGN & CONSTRUCTION STANDARDS.
2020 FLORIDA BUILDING CODE, 7TH EDITION.
   - BUILDING CODE
   - PLUMBING CODE
   - FUEL GAS CODE
   - MECHANICAL CODE
   - ENERGY CONSERVATION CODE
   - NATIONAL ELECTRICAL CODE 2017
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL FIELD DIMENSIONS, LOCATIONS AND CONDITIONS PRIOR TO THE INSTALLATION OF ANY MATERIALS AND COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES THAT WILL AFFECT THE WORK FOR RESOLUTION.
3. THE CONTRACTOR SHALL PAY FOR INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
5. ALL LABOR, MATERIALS AND INSTALLATIONS MUST COMPLY WITH THE CODES, RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
6. CONTRACTOR SHALL MAINTAIN PROPER PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING SAFETY REGULATIONS.
7. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
8. THE CONTRACTOR SHALL COOPERATE WITH SUBCONTRACTORS TO MANAGE EQUIPMENT, MATERIALS, AND OTHER SERVICES REQUIRED FOR SMOOTH FLOW OF THE PROJECT.
9. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF EQUIPMENT AND MATERIALS.
10. THE CONTRACTOR SHALL MANAGE GENERATED WASTE.
11. ALL EQUIPMENT AND SERVICEABLE DEVICES SHALL BE INSTALLED WITH ACCESS AND CLEARANCE FOR MAINTENANCE, REPLACEMENT AND/OR USE. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES TO PROVIDE THIS ACCESS AND CLEARANCE. INSTALL ALL EQUIPMENT, DEVICES AND MATERIALS PER MANUFACTURER'S INSTRUCTIONS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTION AND MISALIGNMENT ACCORDING TO APPLICABLE CODES AND STANDARDS.
13. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE ARCHITECT AT COMPLETION OF CONSTRUCTION.
14. ANY DISCREPANCY WHICH EXISTS BETWEEN THE REQUIREMENTS BY THE PLANS, SPECIFICATIONS, SAID CODES, RULES AND REGULATIONS, SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT, IN WRITING FOR RESOLUTION. IF ANY CHANGE IN THE PLANS AND / OR SPECIFICATIONS OCCURS AS A RESULT OF THE REQUIREMENTS OF THE LIFE SAFETY CODE (NFPA 101) OR ANY OTHER AUTHORITIES HAVING JURISDICTION AFTER THE SUBMISSIONS OF BIDS, THEN THE BIDDERS WILL BE GIVEN THE OPPORTUNITY TO ADJUST THEIR BIDS, IF NECESSARY, ONLY FOR THE CHANGE.
15. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKERBOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
16. NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
17. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
18. ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST THE WIND LOAD REQUIRMENTS INDICATED IN THE STRUCTURAL DRAWINGS.
19. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES.
20. BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
21. REPLACE SIDEWALKS OR PAVEMENT DAMAGED BY OR DURING CONSTRUCTION OF THIS PROJECT.
22. ALL EXPOSED PIPES, CONDUITS OR DUCTS IN FINISHED AREAS, WHETHER SHOWN ON DRAWINGS OR NOT, SHALL BE FURRED OUT WITH GYPSUM BOARD.
23. ALL MATERIALS AND CONSTRUCTION TO BE INCORPORATED IN THE WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE ASTM SPECIFICATIONS APPLICABLE AND SHALL CONFORM TO THE STANDARDS AND RECOMMENDATIONS OF THE VARIOUS TRADE INSTITUTES (A.C.I., A.I.S.C., ETC.) WHERE APPLICABLE.
24. LOCATION OF ACCESS DOORS SUPPLIED BY MECHANICAL TRADES AND INSTALLED BY OTHERS SHALL BE DETERMINED IN THE FIELD THROUGH COORDINATION OF TRADES, LOCATION OF LIGHT FIXTURES SHALL GOVERN POSITION OF DUCTS AND PIPES FOR WHICH ACCESS DOORS ARE REQUIRED. ACCESS DOORS SHALL NOT BE PLACED IN INACCESSIBLE POSITIONS OR IN THE WAY OF LIGHTS, GRILLS, REGISTERS, CONCEALED BY CASEWORK, ETC.
25. THE CONTRACTOR SHALL DO ALL CUTTING AND PATCHING REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.
26. ALL PIPING AND WIRING SHALL BE REMOVED TO A POINT OF CONCEALMENT AND SHALL BE PROPERLY CAPPED AND PLUGGED.
27. THE CONTRACTOR SHALL NOT CONSTRUCT, UNLESS OTHERWISE NOTED, INTERIOR PARTITION WALLS TO FULL HEIGHT UNTIL ALL PIPES, DUCTS, ETC. ARE IN PLACE.
28. ALL VERTICAL SHAFTS SHALL HAVE A MINIMUM FIRE RATING OF 2-HOURS UNLESS REQUIRED OTHERWISE BY CODES DUE TO OCCUPANCY ADJACENCIES.
29. FIRE STOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTIONS AS PER SPECIFICATIONS.
30. IF THERE ARE ANY APPARENT CONFLICTS BETWEEN THE SPECIFICATIONS, DRAWINGS AND CODE REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY AND BE INCLUDED IN THE BID.
31. CONTRACTOR SHALL MAKE HIMSELF/HERSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECTS/ENGINEER UPON REQUEST.
32. PROVIDE MAINTENANCE MANUALS FOR ALL PIECES OF EQUIPMENTS FOR OWNERS USE FOR PREVENTATIVE MAINTENANCE AND GENERAL RECORDS. IDENTIFY EACH PIECE OF EQUIPMENT IN THE TABBED, 3 RING BINDER THAT MATCHES THE LABELS ON THE EQUIPMENT.
33. WHERE CROWDED LOCATIONS EXISTS OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, CONTRACTOR SHALL BE COORDINATED WITH ALL OTHER SHOWING THE EXACT LOCATION OF PIPES, DUCTS, CONDUITS AND EQUIPMENT. DRAWING SHALL BE BASED ON FIELD MEASUREMENT AND, AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION OF THE WORK.
34. WHENEVER A REFERENCE IS MADE TO A STANDARD, INSTALLATION AND MATERIALS SHALL COMPLY WITH THE LATEST PUBLISHED EDITION AT THE TIME THE PROJECT IS BID UNLESS OTHERWISE SPECIFIED.
35. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANEL BOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO THE STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.
36. THE TERM "PROVIDE" SHALL MEAN THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM.
37. IN GENERAL, ALL PIPING, WIRING AND DUCTWORK SHALL BE RUN IN THE CEILING SPACE UNLESS NOTED OR INDICATED OTHERWISE.
38. ALL RISES, DROPS, AND TRANSITIONS IN PIPING AND DUCTWORK MAY NOT NECESSARILY HAVE BEEN SHOWN.
39. INSTALL DUCTWORK, PIPING, ETC. AS HIGH AS POSSIBLE ABOVE CEILING WHILE MAINTAINING ACCESSIBILITY FOR EQUIPMENT AND DEVICES AS APPROPRIATE.

DRAWING INDEX - PLUMBING

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P-102	PLUMBING DOMESTIC WATER FLOOR PLANS - BUILDING A
P-103	PLUMBING SANITARY FLOOR PLANS - BUILDING B
P-104	PLUMBING DOMESTIC WATER FLOOR PLANS - BUILDING B
P-401	PLUMBING ENLARGED
P-501	PLUMBING DETAILS
P-601	PLUMBING SCHEDULES
P-701	PLUMBING SANITARY RISERS - BUILDING A & B
P-702	PLUMBING DOMESTIC WATER RISERS - BUILDING A
P-703	PLUMBING DOMESTIC WATER RISERS - BUILDING B

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PLUMBING LEGENDS, GENERAL NOTES & SPECIFICATIONS

Mitesh Smart
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Date: 2023.01.27 06:45:56 -04'00'

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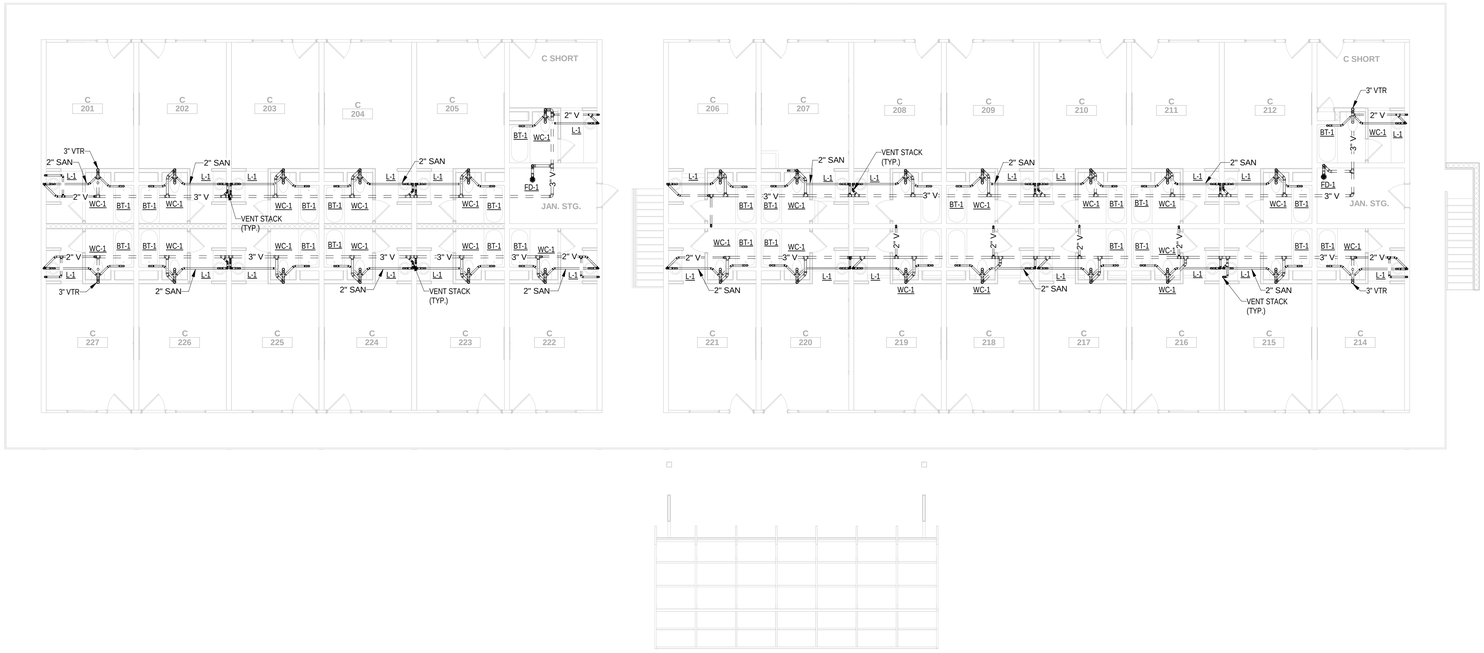
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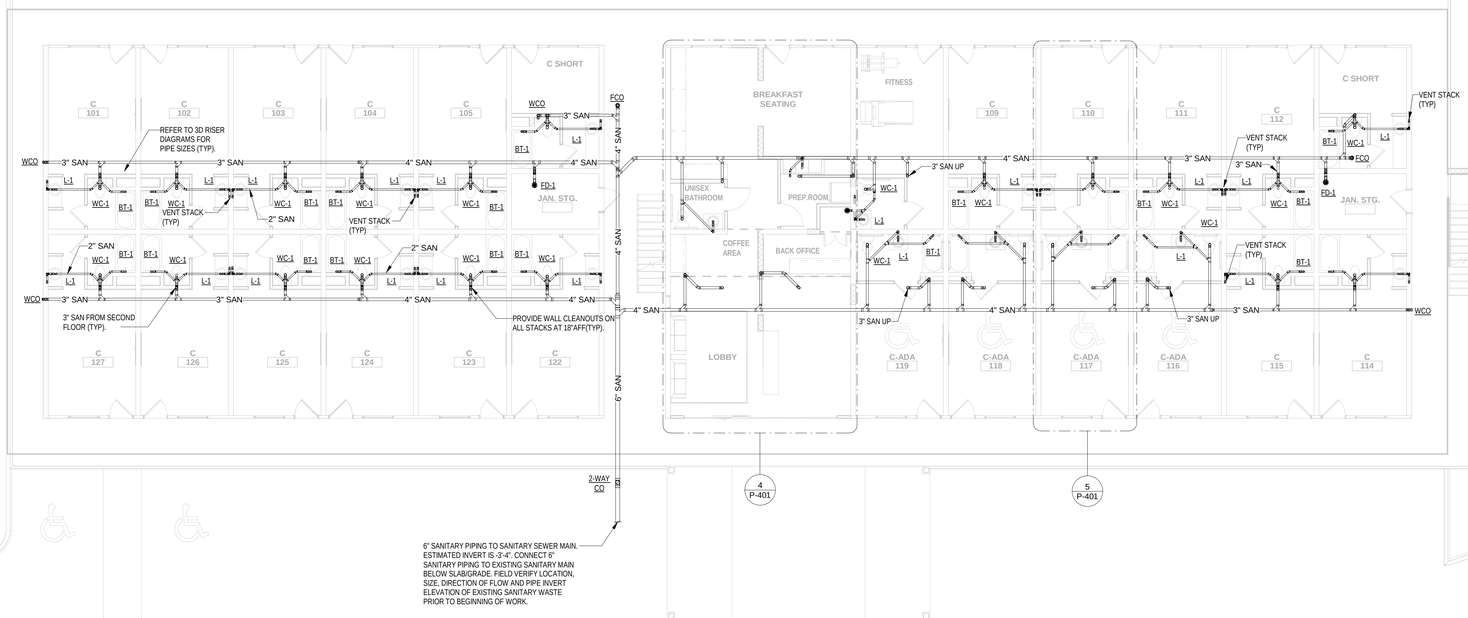
SHEET NUMBER

P-001

CONSTRUCTION DOCUMENTS



2 SECOND FLOOR SANITARY PLAN - BUILDING A
1/8" = 1'-0"



1 FIRST FLOOR SANITARY PLAN - BUILDING A
1/8" = 1'-0"

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PLUMBING SANITARY FLOOR PLANS - BUILDING A

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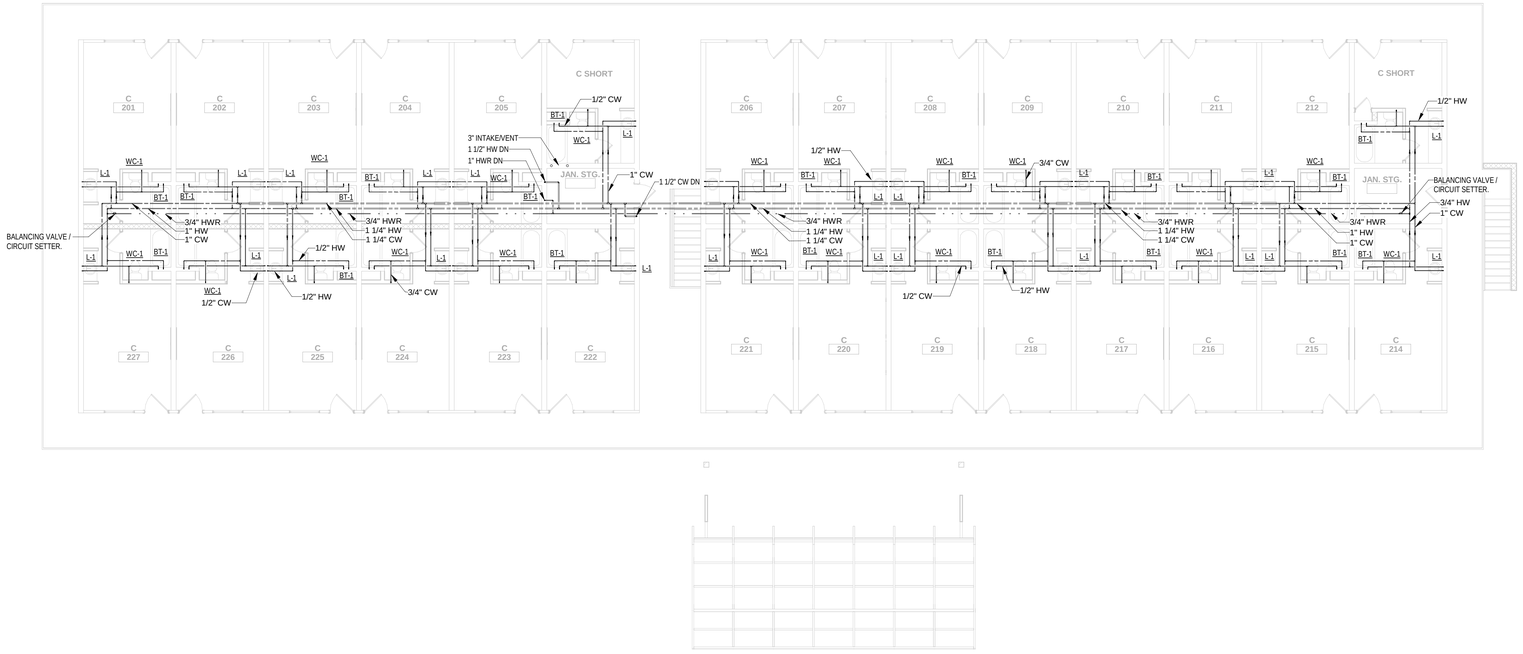
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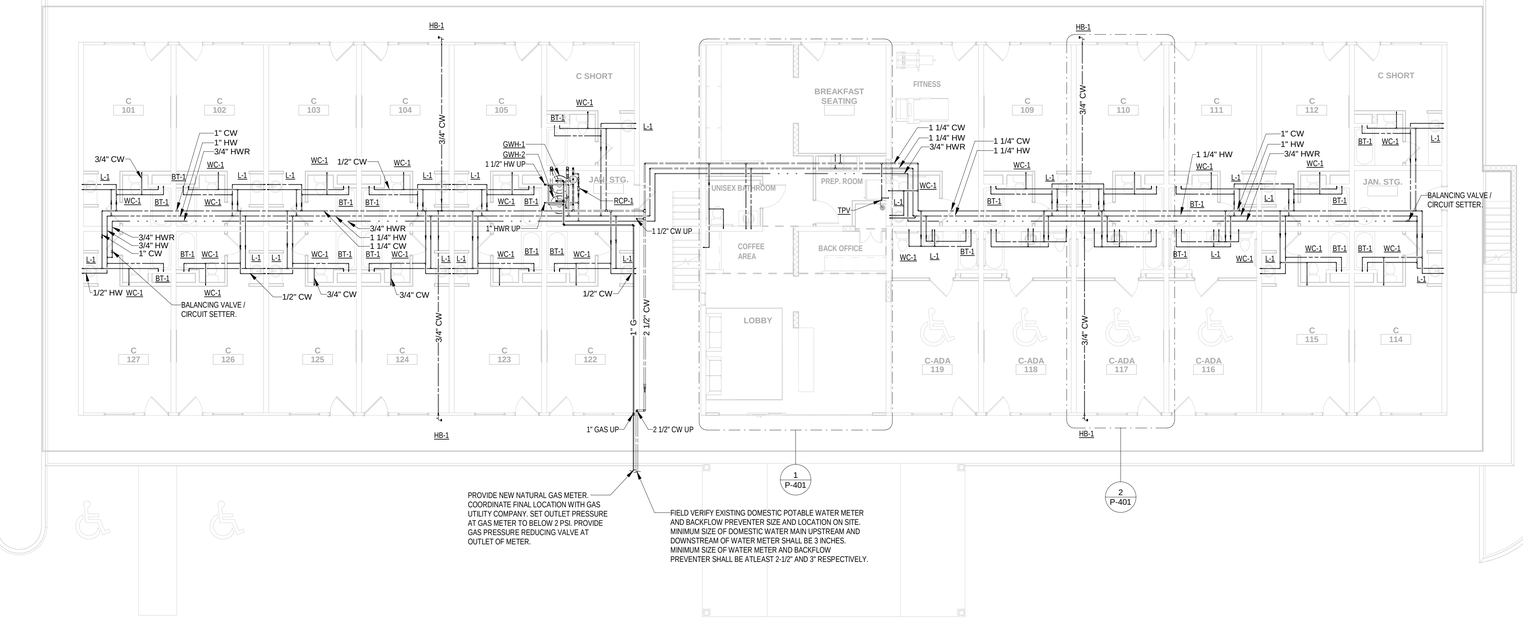
P-101

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2 SECOND FLOOR DOMESTIC WATER PLAN - BUILDING A
1/8" = 1'-0"



PROVIDE NEW NATURAL GAS METER. COORDINATE FINAL LOCATION WITH GAS UTILITY COMPANY. SET OUTLET PRESSURE AT GAS METER TO BELOW 2 PSI. PROVIDE GAS PRESSURE REDUCING VALVE AT OUTLET OF METER.

FIELD VERIFY EXISTING DOMESTIC POTABLE WATER METER AND BACKFLOW PREVENTER SIZE AND LOCATION ON SITE. MINIMUM SIZE OF DOMESTIC WATER MAIN UPSTREAM AND DOWNSTREAM OF WATER METER SHALL BE 3 INCHES. MINIMUM SIZE OF WATER METER AND BACKFLOW PREVENTER SHALL BE ATLEAST 2-1/2" AND 2" RESPECTIVELY.

1 FIRST FLOOR DOMESTIC WATER PLAN - BUILDING A
1/8" = 1'-0"

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PLUMBING DOMESTIC WATER FLOOR PLANS - BUILDING A

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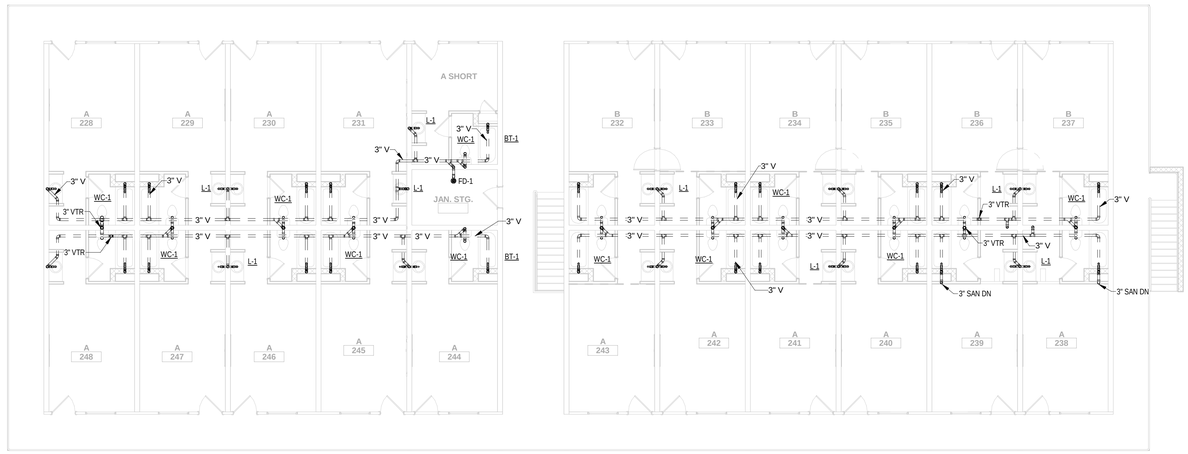
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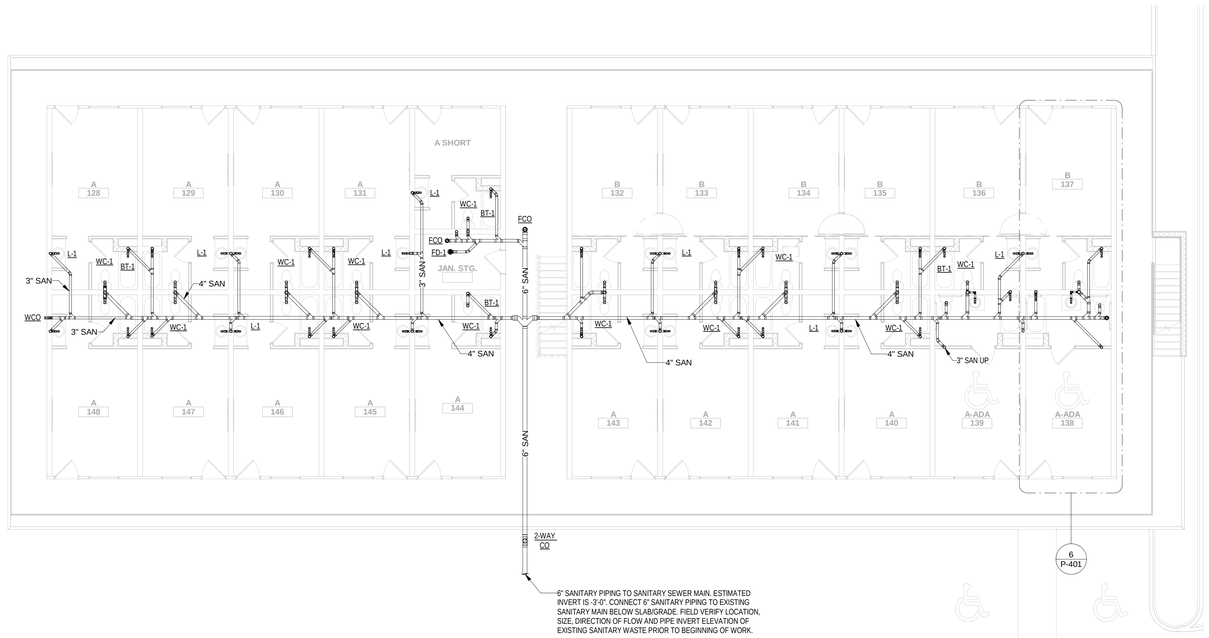
P-102

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2 SECOND FLOOR SANITARY PLAN - BUILDING B
1/8" = 1'-0"



1 FIRST FLOOR SANITARY PLAN - BUILDING B
1/8" = 1'-0"

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PLUMBING SANITARY FLOOR PLANS - BUILDING B

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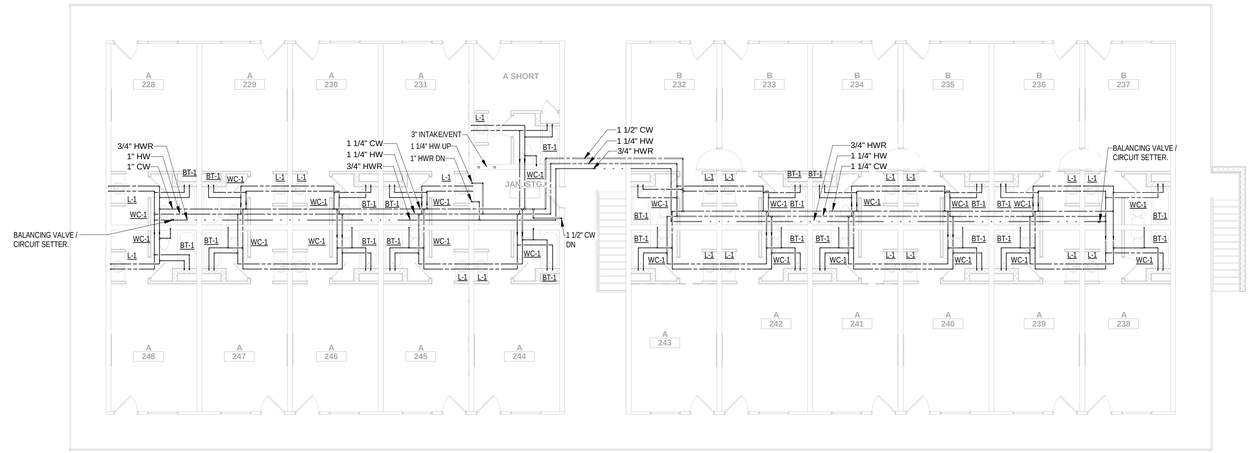
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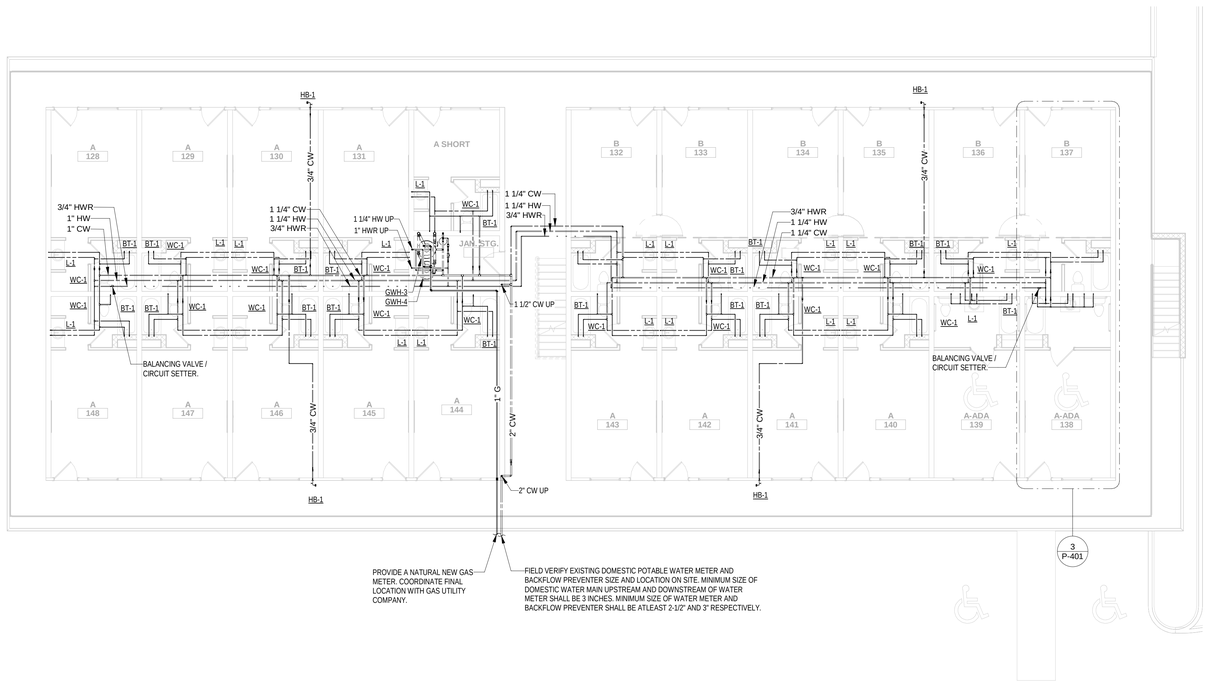
P-103

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2 SECOND FLOOR DOMESTIC WATER PLAN - BUILDING B
1/8" = 1'-0"



1 FIRST FLOOR DOMESTIC WATER PLAN - BUILDING B
1/8" = 1'-0"

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PLUMBING DOMESTIC WATER FLOOR PLANS - BUILDING B

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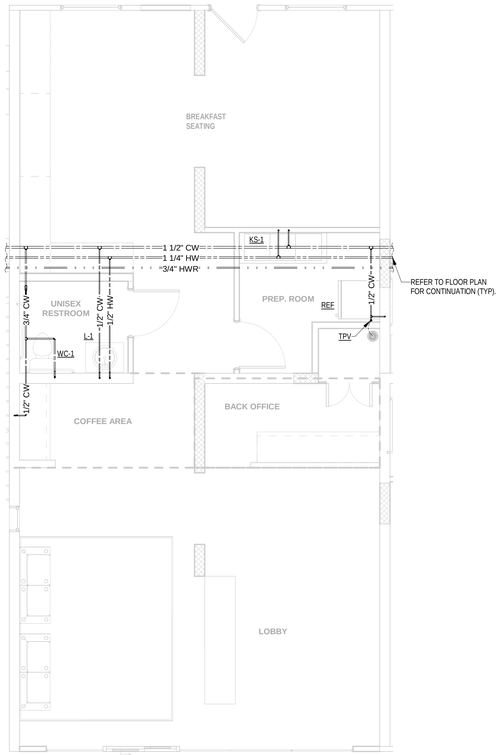
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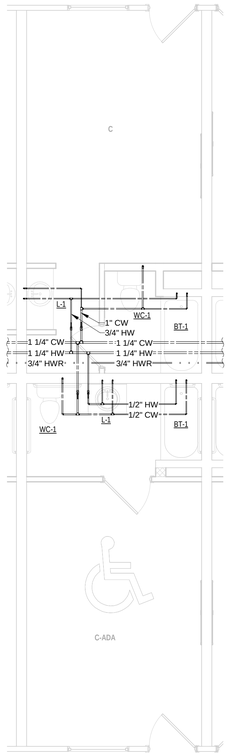
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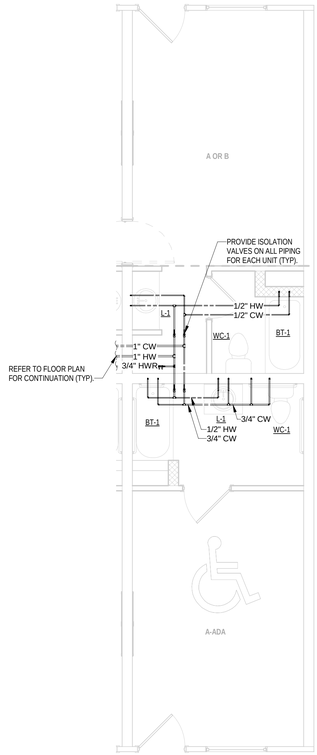
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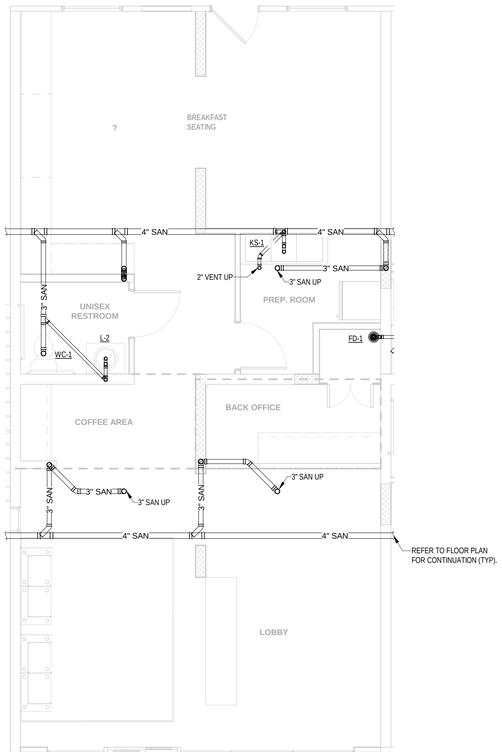
1 LOBBY LAYOUT - DOMESTIC WATER PLAN
1/4" = 1'-0"



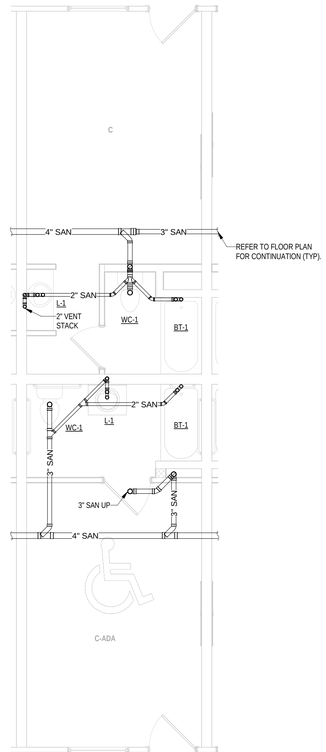
2 DOUBLE FULL SIZE ROOM AND HANDICAP - DOMESTIC WATER PLAN
1/4" = 1'-0"



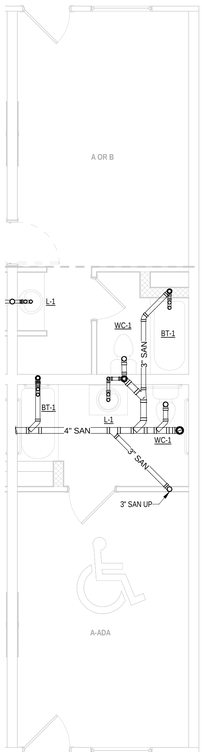
3 KING ROOM AND HANDICAP ACC. KING ROOM - DOMESTIC WATER PLAN
1/4" = 1'-0"



4 LOBBY LAYOUT - SANITARY PLAN
1/4" = 1'-0"



5 DOUBLE FULL SIZE ROOM AND HANDICAP - SANITARY PLAN
1/4" = 1'-0"



6 KING ROOM AND HANDICAP ACC. KING ROOM - SANITARY PLAN
1/4" = 1'-0"

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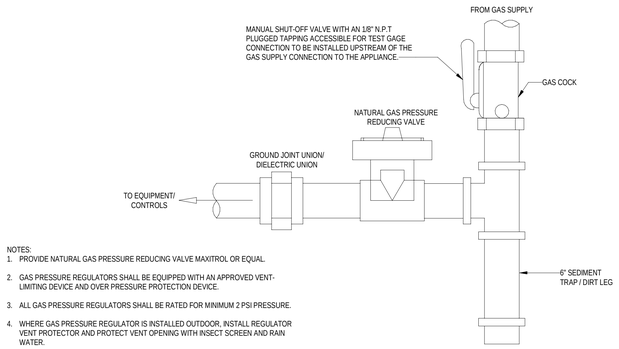
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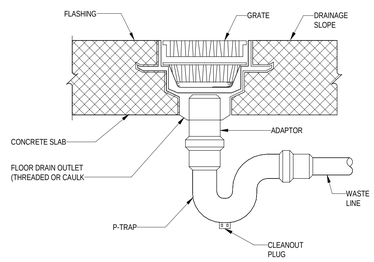
P-401

CONSTRUCTION DOCUMENTS

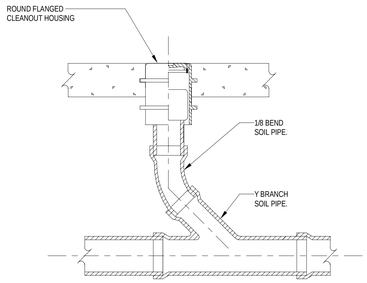
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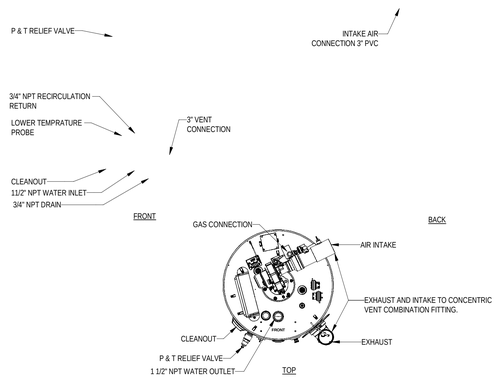
07 GAS CONNECTION TO EQUIPMENT
N.T.S.



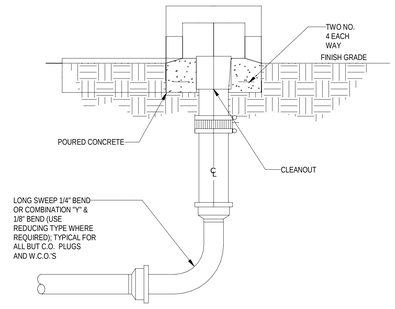
04 FLOOR DRAIN
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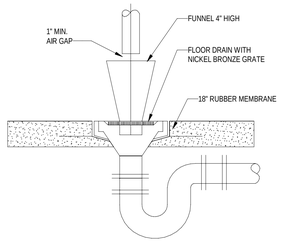
01 SANITARY CLEANOUT FLOOR SLAB
N.T.S.



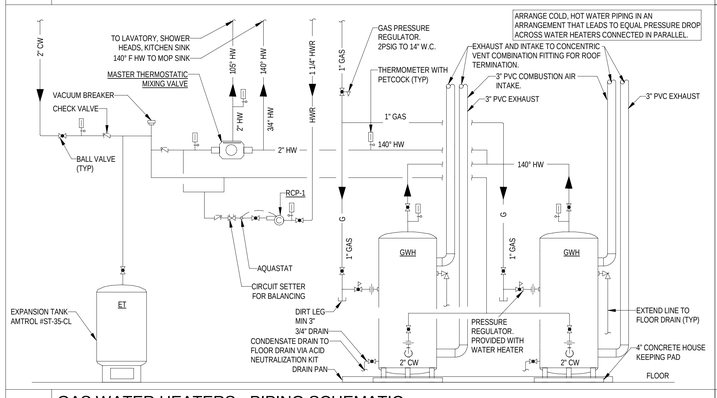
08 GAS WATER HEATER
N.T.S.



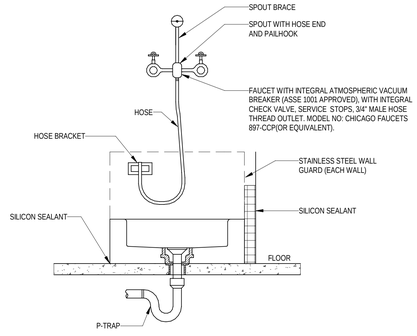
05 GRADE CLEANOUT
N.T.S.



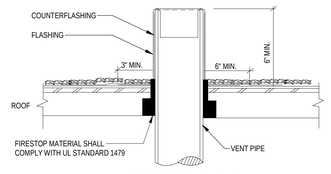
02 INDIRECT DRAIN
N.T.S.



09 GAS WATER HEATERS - PIPING SCHEMATIC
N.T.S.



06 MOP SINK VACUUM BREAKER DETAIL
N.T.S.



SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ROOF TYPE

NOTES:
1. FLASHING AND COUNTERFLASHING FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ROOFING CONTRACTOR.
2. PAINT VENT TO MATCH ROOF.
3. UL 1479 – STANDARD FOR SAFETY FIRE TESTS OF PENETRATION FIRESTOPS.

03 VENT THRU ROOF
N.T.S.

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PLUMBING DETAILS

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MITESH K. SMART LICENSE No.52772 STATE OF FLORIDA PROFESSIONAL ENGINEER
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MITESH K. SMART
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TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 110.8.4.4 FBC-B AND CHAPTER 633, FLORIDA STATUES.

REV#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

P-501

CONSTRUCTION DOCUMENTS

RECIRCULATION PUMP SCHEDULE

TAG	PUMP LIQUID	FLOW RANGE (GPM)	PUMP HEAD RANGE (FT)	MAX. OPERATING PRESSURE (PSI)	PIPE CONNECTION (INCHES)	LIQUID TEMPRATURE RANGE (°F)	MAX. POWER INPUT (WATT)	ELECTRICAL DATA			MODEL NUMBER	MANUFACTURER	GROSS WEIGHT (LBS)
								VOLTAGE	PHASE	CURRENT (AMPS)			
RCP-1,2	DOMESTIC HOT WATER	0-19	0-9	125	1	40-230	62.4	115	1	0.52	005-F2	TACO	8

NOTES :
1. ALL LEAD FREE CAST BRONZE RECIRCULATION PUMP.
2. PROVIDE WITH STRAINER UPSTREAM OF PUMP .
3. PROVIDE WITH SHUTOFF VALVE AND UNIONS WITH DIELECTRIC FITTINGS.
4. PROVIDE WITH ADJUSTABLE, SURFACE MOUNTED AQUASTAT.

TOTAL PLUMBING FIXTURE DEMAND CALCULATION - BUILDING A

FIXTURE	DESCRIPTION	OCCUPANCY	QTY.	DRAINAGE FIXTURE UNITS	SUB-TOTAL	LOAD VALUES IN WATER (EACH) SUPPLY FIXTURE UNITS (WSFU)			LOAD VALUES IN WATER (TOTAL) SUPPLY FIXTURE UNITS (WSFU)			REMARKS
						COLD	HOT	TOTAL	COLD	HOT	TOTAL	
-	BATHROOM GROUP	PRIVATE	53	5	265	2.7	1.5	3.6	143	80	191	
WC-1	WATER CLOSET	PUBLIC	1	4	4	5.0	-	5.0	5.0	-	5.0	
L-1	LAVATORY	PUBLIC	2	1	2	1.5	1.5	2.0	3.0	3.0	4.0	
KS-1	KITCHEN SINK	PUBLIC	1	2	2	3.0	3.0	4.0	3.0	3.0	4.0	
HB-1	HOSE BIBB	-	4	-	-	2.0	-	2.0	8.0	-	8.0	
RECOUNT CW DEMAND FOR BUILD A					273	DFU			162	86	212	WSFU
					6"	DIAMETER OF PIPE (INCHES)			58	41	68	GPM
									2"	2"	2 1/2"	INCHES REQ'D.

TOTAL PLUMBING FIXTURE DEMAND CALCULATION - BUILDING B

FIXTURE	DESCRIPTION	OCCUPANCY	QTY.	DRAINAGE FIXTURE UNITS	SUB-TOTAL	LOAD VALUES IN WATER (EACH) SUPPLY FIXTURE UNITS (WSFU)			LOAD VALUES IN WATER (TOTAL) SUPPLY FIXTURE UNITS (WSFU)			REMARKS
						COLD	HOT	TOTAL	COLD	HOT	TOTAL	
-	BATHROOM GROUP	PRIVATE	44	5	220	2.7	1.5	3.6	119	66	159	
HB-1	HOSE BIBB	-	4	-	-	2.0	-	2.0	8.0	-	8.0	
					220	DFU			127	66	167	WSFU
					6"	DIAMETER OF PIPE (INCHES)			50	34	59	GPM
									2"	1 1/2"	2"	INCHES REQ'D.

PLUMBING FIXTURE SCHEDULE

FIXTURE MARK	FIXTURE TYPE	WASTE CONN.	TRAP	VENT CONN.	C.W. CONN.	H.W. CONN.	MANUFACTURER / MODEL #	DESCRIPTION
WC-1	PUBLIC & PRIVET	3"	INTEG.	2"	3/4"	-	KOHLER WELLWORTH K-3998-TR	30" x 18" x 29 1/4" , ELONGATED TWO PIECE FLOOR MOUNT TOILET, 1.28 GPF, VITRUS CHINA, COLOR SELECTED BY OWNER, WITH ELONGATED TOILET SEAT K-5588.
L-1	PUBLIC/PRIVET	2"	1 1/2"	2"	1/2"	1/2"	AMERICAN STANDARD AQUALYN COUNTERTOP SINK #0475.028	WHITE VITREOUS CHINA, 20-3/8"L x 17-3/8"W, COUNTERTOP, FRONT OVERFLOW, ADA COMPLIANT. FAUCET - AMERICAN STANDARD 'MONTERREY' #5500.175, 0.5 GPM PRESSURE COMPENSATING VANDAL-RESISTANT SPRAY, VANDAL-RESISTANT WRIST BLADE HANDLES, LESS DRAIN AND POP-UP HOLE, ADA COMPLIANT.
BT-1	PRIVET	2"	2"	2"	1/2"	1/2"	KOHLER STERLING 71041122	DURABLE HIGH GLOSS FINISH, ABOVE FLOOR DRAIN (AFD) ROUGH IN. 60"X17-1/4", COMPRESSION MOLDED SOLID VIKRELL MATERIAL, FAUCET SHALL BE SYMMONS ORIGINS MODEL 'S9602PLRTRMTC' TUB/SHOWER SYTEM,WITH TEMPITROL PRESSURE BALANCING VALVE MODEL 262BODY AND TA-10 FLOW CONTROL AT 1.5 GPM. TMV: WATTS 'SERIES LFMMV', ASSE 1016 APPROVED THERMOSTATIC MIXING VALVE.
KS-1	PUBLIC	2"	2"	2"	1/2"	1/2"	ELKAY CELEBRITY CR3321	DOUBLE BOWL SINK , NICKEL BEARING STAINLESS STEEL, BOWL DEPTH: 7", COVED CORNERS: 3" RADIUS. BOWL AND FAUCET DECK RECESS: 3/16" BELOW OUTSIDE EDGE OF SINK.FAUCET - KOHLER 'K-22033', 1.5 GPM MAXIMUM FLOW RATE, CERAMIC DISC VALVES.
HB-1	-	-	-	-	3/4"	-	ZURN Z1321	ECOLOTROL CERAMIC DISK HYDRANT IS AN EXPOSED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING.
FD-1	-	3"	3"	2"	-	-	JAY R. SMITH	DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD, WITH TRAP PRIMER CONNECTION.
FCO-1	-	SEE PLAN	SEE PLAN	-	-	-	JAY R. SMITH 4020 Series	DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP.

NOTES :
1. PROVIDE ALL ADA LAVATORIES AND SINKS NOT PROTECTED BY AN ARCHITECTURAL SKIRT PANEL PROVIDE WITH UNDERSINK PIPING COVERS.

WATER HAMMER ARRESTOR SCHEDULE

PDI UNITS	AA	A	B	C	D	E	F
FIXTURE UNITS	1-3	1-11	12-32	33-60	61-113	114-154	155-330

GAS WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	STORAGE CAPACITY (GALLONS)	GAS CONSUMPTION INPUT (KBTUH)	RECOVERY IN GPH @100°F RISE	ELECTRICAL DATA		CONNECTION				OPERATING WEIGHT (LBS)
						VOLTAGE	PHASE	IN (INCH)	OUT (INCH)	GAS (INCH)	VENTING EXH/INTAKE	
GWH-1,2,3,4	A.O. SMITH	CYCLONE MXI BTH-199(A)	100	199.9	235	120	1	1 1/2"	1 1/2"	3/4"	3"	1386

NOTES:

1. PROVIDE WITH VERTICAL CONCENTRIC VENT AND FLUE TERMINATION KIT.
2. SET OUTLET HOT WATER TEMPERATURE FROM HEATER TO 140°F. SET OUTLET HOT WATER TEMPERATURE FROM MASTER THERMOSTATIC MIXING VALVE TO 105°F
3. PROVIDE WITH MANUFACTURER'S CONDENSATE ACID NEUTRALIZER KIT.
4. ASME RATED.
5. PROVIDE ASME APPROVED THERMAL EXPANSION TANK AMTROL MODEL# ST-35-CL, 10 GALLONS TANK WITH A MAXIMUM ACCEPTANCE VOLUME OF 3.45 GALLONS.
6. PROVIDE ASSE 1017 APPROVED MASTER THERMOSTATIC VALVE WATTS MODEL#SERIES LFN170 OR APPROVED EQUAL.

ISP INTERNATIONAL SERVICE PARTNERS, LLC
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COA #6797

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PLUMBING SCHEDULES

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TO THE BEST OF THE ARCHITECT'S K N O W L E D G E, THE PLANS AND SPECIFICATIONS C O M P L Y WITH THE A P P L I C A B L E M I N I MUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH S E C T I O N 110.8.4.4 FBC-B A N D CHAPTER 633, FLORIDA STATUES.

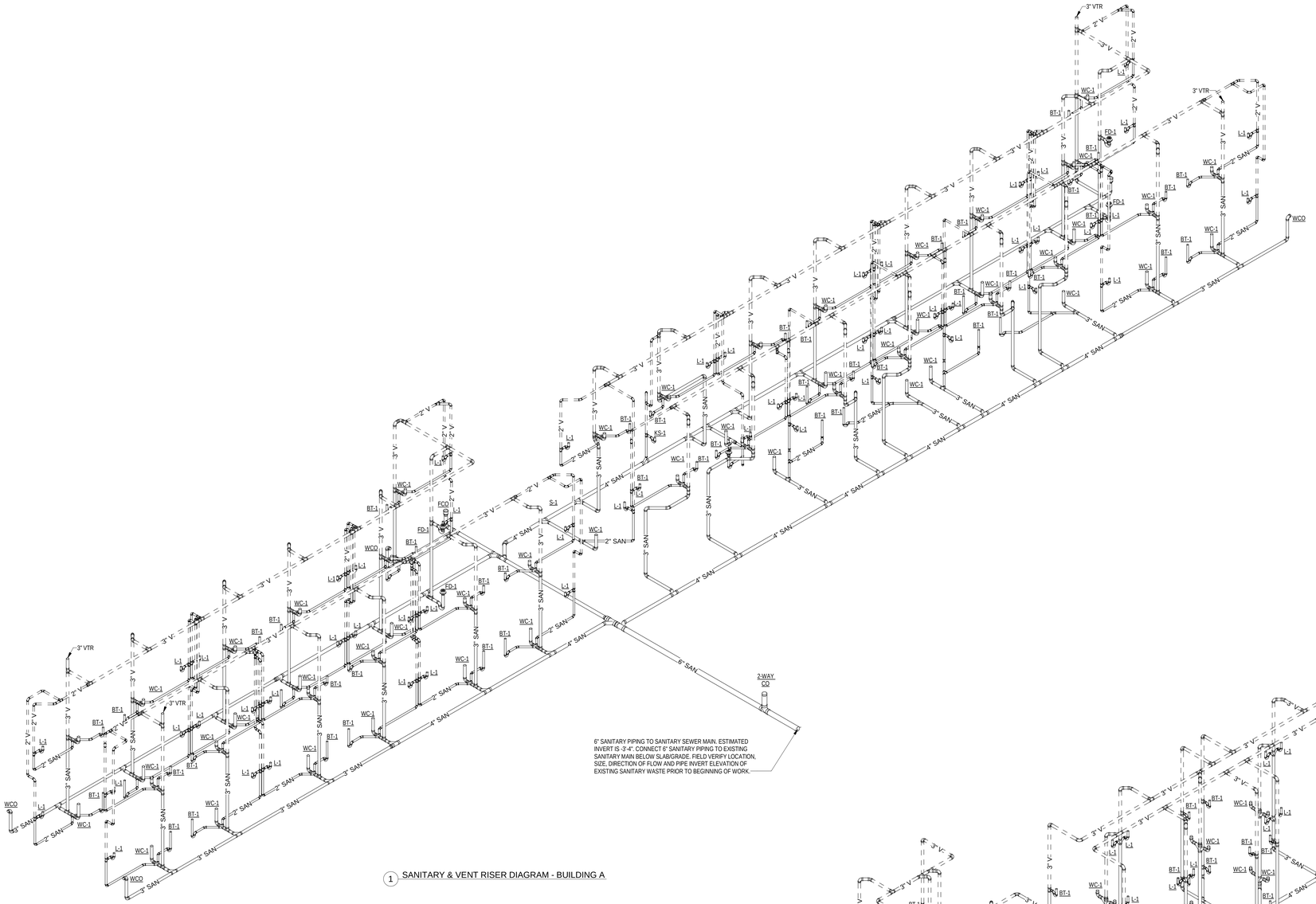
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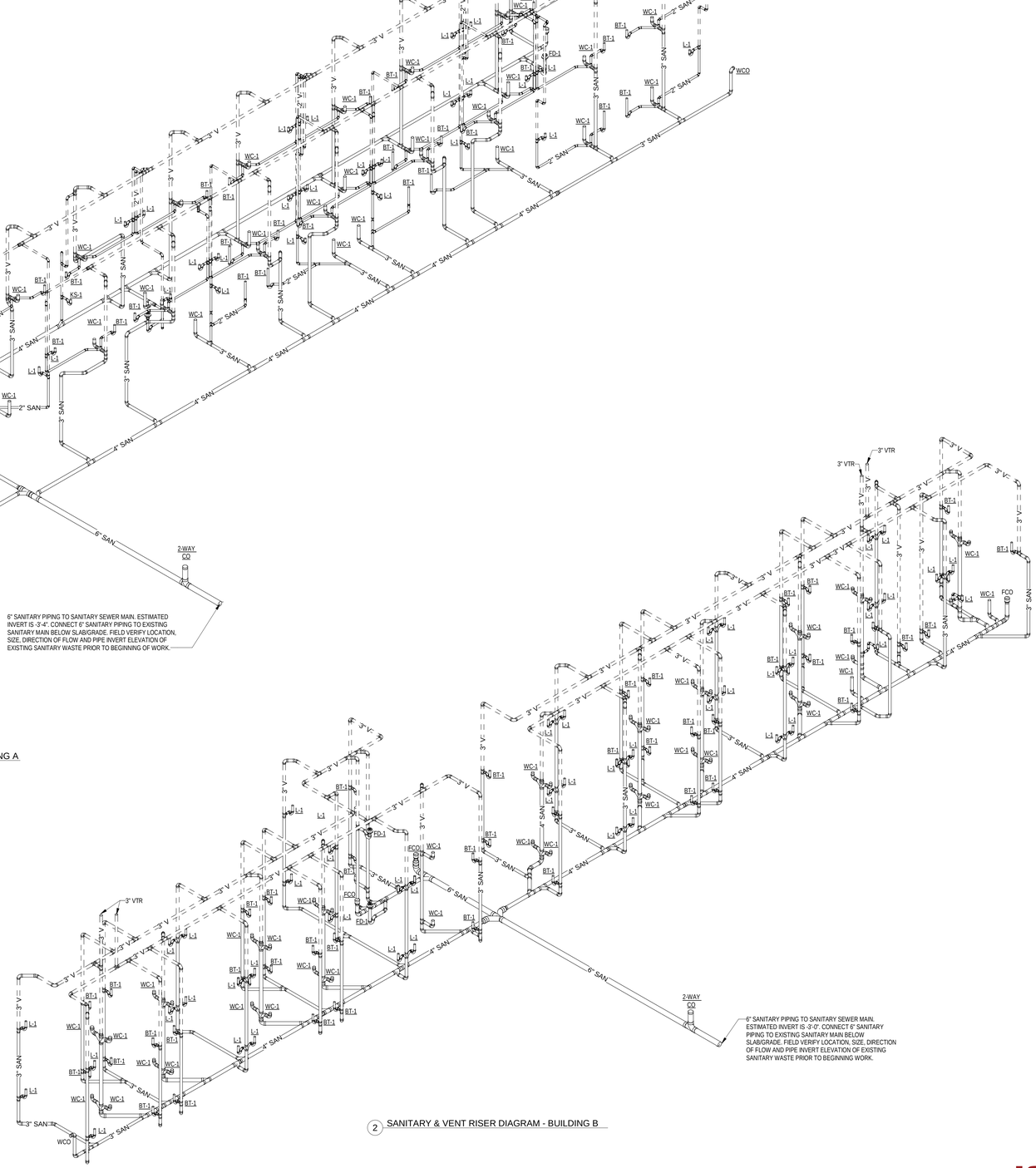
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P-601

CONSTRUCTION DOCUMENTS



1 SANITARY & VENT RISER DIAGRAM - BUILDING A



2 SANITARY & VENT RISER DIAGRAM - BUILDING B

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PLUMBING SANITARY RISERS - BUILDING A & B

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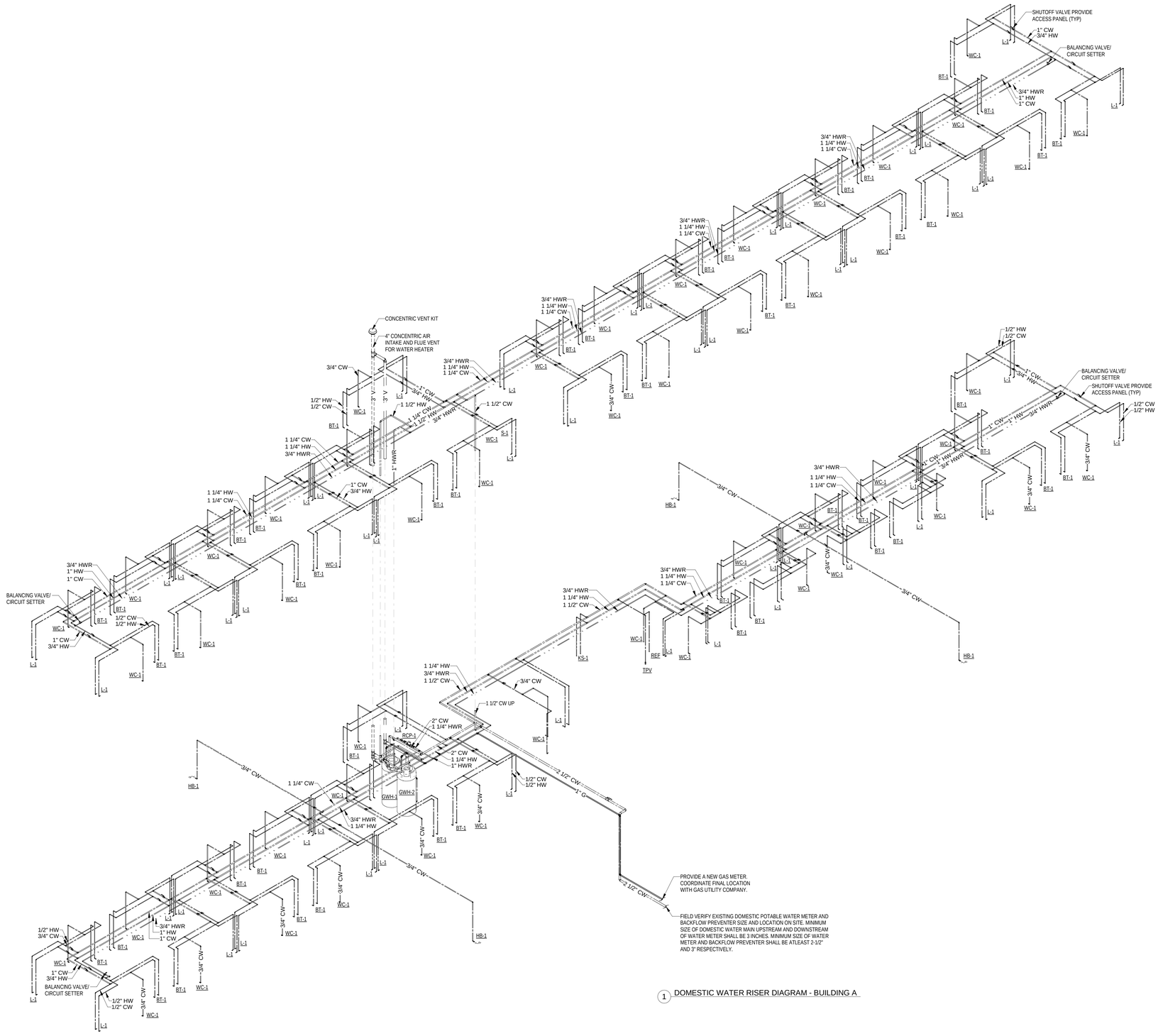
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1 DOMESTIC WATER RISER DIAGRAM - BUILDING A

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PLUMBING DOMESTIC WATER RISERS - BUILDING A

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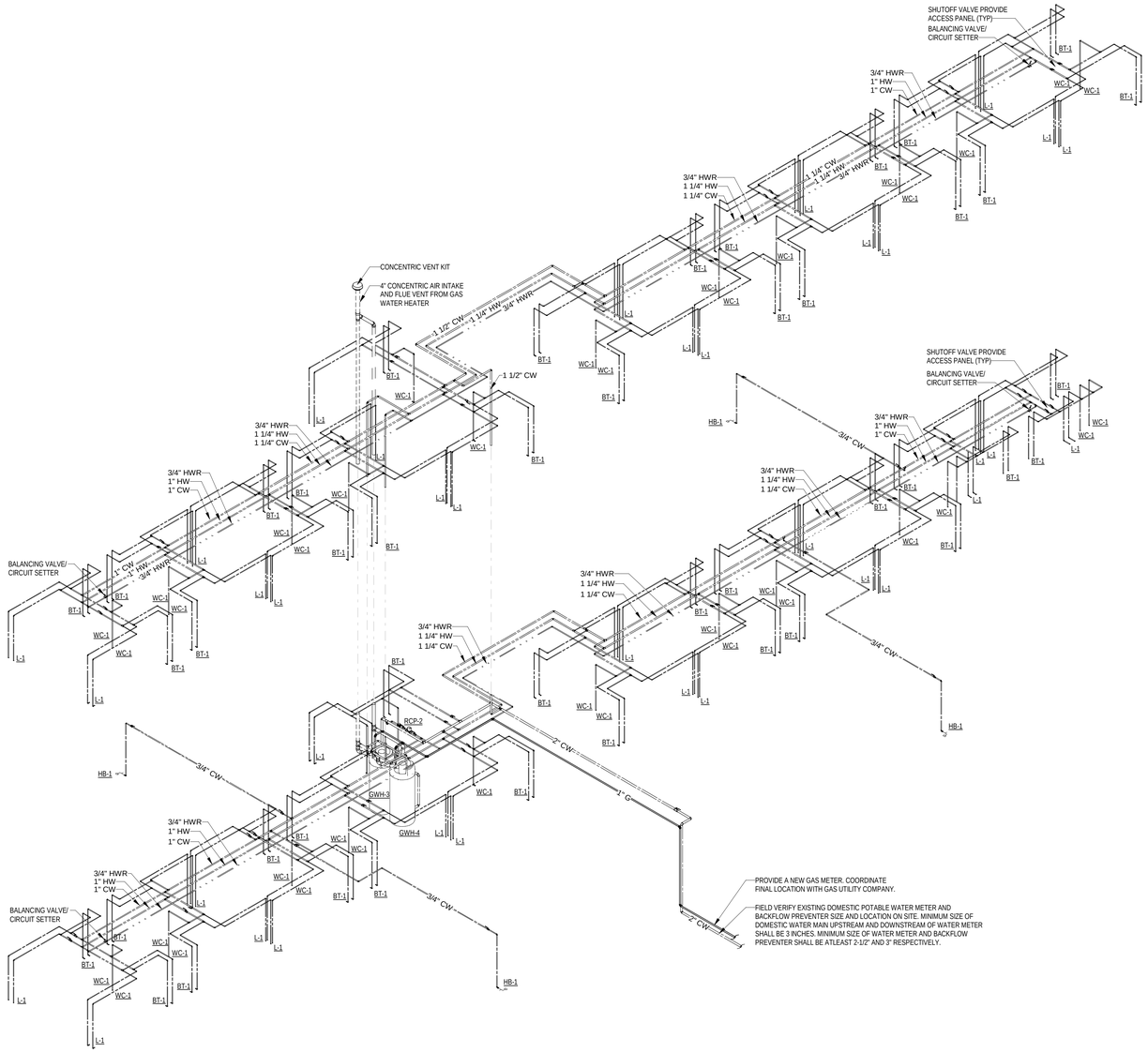
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PLUMBING DOMESTIC WATER RISERS - BUILDING B

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DIVISION 26 - ELECTRICAL SPECIFICATIONS

DIVISION 26 - ELECTRICAL SPECIFICATIONS
GENERAL ELECTRICAL REQUIREMENTS

A. THE COMPLETE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE CODES & STANDARDS ADOPTED BY GA DEPARTMENT OF COMMUNITY AFFAIRS.

B. 'FURNISH AND INSTALL' AND 'PROVIDE' ARE EQUIVALENT TERMS WHICH INDICATE MATERIAL AND/OR EQUIPMENT SUPPLIED AND INSTALLED BY THIS CONTRACTOR. 'FURNISHED' DENOTES MATERIAL OR EQUIPMENT SUPPLIED BUT NOT INSTALLED BY THIS CONTRACTOR. 'INSTALLED' DENOTES THE SETTING IN POSITION OR CONNECTION OF MATERIAL OR EQUIPMENT BY THIS CONTRACTOR BUT SUPPLIED BY OTHERS.
C. IT IS THE REQUIREMENT OF THESE CONTRACT DOCUMENTS TO HAVE THE CONTRACTOR PROVIDE SYSTEMS AND COMPONENTS THAT ARE FULLY COMPLETE AND OPERATIONAL AND FULLY SUITABLE FOR THE INTENDED USE.
D. DRAWINGS ARE DIAGRAMMATIC AND SHOULD NOT BE SCALED TO DETERMINE EXACT LOCATIONS. VERIFY ALL LOCATIONS A REQUIREMENTS OF EQUIPMENT FURNISHED AND/OR INSTALLED BY OTHERS BEFORE ROUGHING IN.
E. ELECTRICAL SYSTEMS SHALL BE INSTALLED AS A COMPLETE INSTALLATION. INCIDENTAL DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION SHALL BE INCLUDED IN THE WORK OF THIS CONTRACTOR.

F. REBIND SURVEY.
   1. THIS CONTRACTOR SHALL SURVEY THE JOBSITE PRIOR TO SUBMITTING THEIR BID TO DETERMINE THE FOLLOWING:
      a. AREAS REQUIRING DEMOLITION, TEMPORARY POWER, RELOCATING, ETC. WHICH ARE INADVERTENTLY NOT SHOWN ON THE DRAWINGS.
      b. PROBLEMS WITH WORK SEQUENCE.
   2. ANY UNUSUAL CONDITIONS NOT SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BIDDING.
G. ACCEPTABLE MANUFACTURERS: THE LISTING OF A MANUFACTURER AS "ACCEPTABLE" UNDER ANY DIVISION 26 REQUIREMENTS DOES NOT IMPLY AUTOMATIC APPROVAL. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ANY SUBMITTALS MADE ARE FOR PRODUCTS THAT MEET OR EXCEED THE SPECIFICATIONS INCLUDED HERE.
H. UPON COMPLETION OF THE WORK, BUT BEFORE FINAL ACCEPTANCE OF THE SYSTEM AND REQUEST FOR FINAL PAYMENT, FURNISH THE OWNER, FOR APPROVAL, OPERATION AND MAINTENANCE MANUALS IN LOOSE-LEAF BINDERS. PROVIDE A MINIMUM OF 6 SETS. MANUAL SHALL INCLUDE:
   1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
   2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
   3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
I. PROVIDE OWNER WITH A RECORD SET OF AS-BUILT DRAWINGS WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE FROM A DESIGNATED MARKED-UP SET OF BLUELINES INCLUDING:
   1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
   2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
J. PROVIDE TEMPORARY ELECTRICAL POWER TO JOBSITE FOR THE DURATION OF THE PROJECT.
K. SUBMIT SHOP DRAWINGS TO ARCHITECT FOR ALL ELECTRICAL ITEMS. THE SHOP DRAWINGS SHALL BE SUBMITTED COMPLETE FOR ALL ELECTRICAL ITEMS. INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT BEING REVIEWED OR THE CONTRACTOR SHALL AGREE TO PAY THE ELECTRICAL ENGINEER DIRECTLY AT AN HOURLY RATE OF $125.00 TO REVIEW SUBSEQUENT SUBMITTALS. SHOP DRAWING RE-SUBMITTALS DUE TO REJECTIONS FOR NOT SUBMITTING THE SPECIFIED ITEMS ARE ALSO SUBJECT TO THE HOURLY REVIEW FEE.
L. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT (SWITCHBOARDS, TRANSFORMERS, ETC.).
M. DIVISION 26 SUB-CONTRACTOR SHALL REVIEW DIVISION 15 SHOP DRAWINGS AND VERIFY EQUIPMENT VOLTAGE, PHASE AND AMPS PRIOR TO ROUGH-IN OF ALL EQUIPMENT.
N. ALL EQUIPMENT, DEVICES, ETC. FURNISHED BY ELECTRICAL CONTRACTOR SHALL BE U.L. LISTED (OR EQUIVALENT NATIONAL TESTING AGENCY) FOR IT'S INTENDED PURPOSE. INFORM OWNER THAT ALL OWNER FURNISHED EQUIPMENT, DEVICES, ETC. MUST ALSO HAVE A U.L. LISTING (OR EQUIVALENT LISTING).
O. ALL ELECTRICAL COMPONENTS (CONDUIT, WIRE, FITTINGS, SUPPORTS, CIRCUIT BREAKERS, LAMPS, ETC.) PROVIDED AND INSTALLED IN THIS PROJECT SHALL BE BRAND NEW. RE-USE OF EXISTING COMPONENTS WILL NOT BE APPROVED. UTILITY COORDINATION: CONTRACTOR SHALL SUBMIT A COMPLETE SET OF CONSTRUCTION.
P. DOCUMENTS TO UTILITY COMPANY IMMEDIATELY AFTER RECEIVING NOTICE TO PROCEED OR PRIOR TO ANY SITE OR BUILDING ROUGH-IN. COORDINATE EASEMENT LOCATIONS BETWEEN OWNER AND UTILITY COMPANY. VERIFY WITH UTILITY COMPANY: PROPOSED VOLTAGE, PHASE, POLE/PAD-MOUNT TRANSFORMER LOCATIONS, METERING, UTILITY PRIMARY ROUTING AND CONDUIT REQUIREMENTS, ETC.

ELECTRICAL IDENTIFICATION

A. PROVIDE CABLE/CONDUCTOR IDENTIFICATION BANDS.
B. PROVIDE ENGRAVED PLASTIC LAMINATE SIGNS, WHITE LETTERING ON A BLACK BACKGROUND, FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL WORK: SWITCHBOARDS, MOTOR STARTERS, TRANSFORMERS, PANELBOARDS, DISCONNECTS, AND JUNCTION BOXES. NAME PLATES SHALL IDENTIFY PANEL DESIGNATION (NAME), VOLTAGE, PHASE AND WIRE CONFIGURATION.
C. UNDERGROUND CABLE/CONDUIT IDENTIFICATION PLASTIC LINE MARKERS SHALL BE PROVIDED THE CONTINUOUS TRENCH LENGTH.

ELECTRICAL DEMOLITION AND ALTERATIONS

A. ANY EXISTING CIRCUITS OR EQUIPMENT NOT SHOWN ON DRAWINGS AND WHICH ARE LOGICALLY EXPECTED TO BE CONTINUED IN SERVICE SHALL BE RECONNECTED IN AN APPROVED MANNER.
B. WIRING TO ELECTRICAL EQUIPMENT BEING DISCONNECTED SHALL BE REMOVED BACK TO THEIR OVERCURRENT DEVICE OR BACK TO NEAREST ACTIVE JUNCTION BOX.
C. CONTRACTOR SHALL PROVIDE SUPPORT FOR EXISTING CONDUIT IN REMODELED AREA THAT IS TO REMAIN AND IS NOT PROPERLY SUPPORTED IN ACCORDANCE WITH N.E.C. REQUIREMENTS.
D. EXCEPT FOR CONDUIT, CONDUCTORS AND MISCELLANEOUS HARDWARE, ALL ELECTRICAL EQUIPMENT SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR DISPOSED OF AS DIRECTED BY OWNER.

CONDUIT & RACEWAYS

A. MINIMUM SIZE CONDUIT SHALL BE 1/2". DOES NOT APPLY TO MC CABLE.
B. CONDUIT SHALL BE MC CABLE, ELECTRICAL METALLIC TUBING, OR RIGID GALVANIZED STEEL CONDUIT. SCHEDULE 40 PVC CONDUIT IS ALLOWED FOR CONDUITS N/UNDER THE SLAB AND UNDERGROUND. MC CABLE MAY NOT BE USED FOR ANY HOMERUN.
C. ALL CONDUIT SHALL BE CONCEALED. CONDUIT SHALL BE EMT IN INTERIOR AREAS, AND RIGID GALVANIZED STEEL CONDUIT IN EXTERIOR AREAS.
D. COORDINATE ROUTING (LOCATION) OF CONDUIT WITH HVAC DUCTWORK, PLUMBING PIPING AND SPRINKLER PIPING.
E. SECURE CONDUIT IN PLACE WITH CORROSION-PROOF ALLOY STRAPS AT SPACING AS REQUIRED BY N.E.C. CONDUIT SHALL BE SECURED TO BUILDING STRUCTURE.
F. INSTALL FLEXIBLE STEEL CONDUIT NOT OVER 3' LONG TO MOTORS, TRANSFORMERS AND EQUIPMENT SUBJECT TO VIBRATION.
G. INSTALL LIQUID-TIGHT FLEXIBLE CONDUIT NOT OVER 3' LONG WHERE SUBJECT TO MOISTURE, DIRT OR FUMES.
H. TYPE MC CABLE SHALL BE OF THE INTERLOCKING JACKET TYPE. CABLE SHALL BE SUPPORTED AT NOT MORE THAN SIX-FOOT INTERVALS, AND ALL FITTINGS SHALL BE IDENTIFIED FOR USE WITH SAID CABLE. MC CABLE SHALL NOT BE USED FOR SERVICE ENTRANCE OR IN EXPOSED AREAS. MC CABLE MAY BE USED ABOVE DROP CEILINGS AND IN INTERIOR PARTITIONS.
I. CONTRACTOR SHALL MINIMIZE FLOOR SLAB PENETRATIONS.
J. ALL CONDUIT RUNS SHALL BE DESIGNED TO PRESENT A NEAT AND ORDERLY APPEARANCE, RUNNING LINES PARALLEL WITH BUILDING STRUCTURE OR WALLS.
K. ROOFTOP UNITS AND EXHAUST FANS ARE TO BE WIRED THROUGH THE ROOF CURBS OR UTILIZE FACTORY-FABRICATED ROOF PIPING CURBS. PITCH POCKETS ARE NOT ALLOWED.
L. ROMEX CABLE IS NOT PERMITTED.
M. CONDUIT SHALL BE ROUTED PERPENDICULAR THROUGH RATED WALLS. PROVIDE PROPER SLEEVES AND FIRE SAFING/SEALANTS.
N. PROVIDE UL APPROVED FIRE SEALS FOR ALL FIRE RATED WALL AND FLOOR PENETRATIONS.

WIRES, CABLES AND CONNECTORS

A. ALL CONDUCTORS SHALL BE COPPER WITH 600V 90°C WITH THHN/THWN-2 INSULATION FOR USE WITHIN BUILDING CONFINES. WHERE INSTALLED BEYOND THE BUILDING CONFINES, SUCH AS IN UNDERGROUND FEEDER BANKS OR CIRCUITRY TO SITE LUMINARIES IT SHALL BE COPPER WITH 600V, 90°, XHHW-2 INSULATION.
B. USE SOLID CONDUCTOR, SINGLE CONDUCTOR, NO. 12 AWG MINIMUM FOR GENERAL USE WIRING.
C. USE STRANDED CONDUCTOR, SINGLE CONDUCTOR NO. 12 AWG AND LARGER, FOR MOTORS AND OTHER INSTALLATIONS WHERE VIBRATION IS GENERATED.
D. COLOR-CODING SHALL IDENTIFY THE SAME PHASE THROUGHOUT THE SYSTEM, FROM SERVICE SWITCH OR TRANSFORMER THROUGH ALL BRANCH CIRCUITRY. ALL WIRING SHALL BE COLOR-CODED AS FOLLOWS:

208/120 VOLT	480/277 VOLT
PHASE A-BLACK	PHASE A-BROWN
PHASE B-RED	PHASE B-ORANGE
PHASE C-BLUE	PHASE C-YELLOW
NEUTRAL-WHITE	NEUTRAL-WHITE TRACER OR GRAY

E. A STANDARD 500V MEGGER INSULATION TEST SHALL BE MADE AND RECORDED FOR ALL FEEDER CIRCUITS. PROVIDE A COPY OF TEST RESULTS TO ENGINEER FOR REVIEW.
F. PROVIDE LUGS FOR FEEDER SIZES INDICATED ON DRAWINGS OR AS REQUIRED.
G. WIRE SIZE FOR 120V BRANCH CIRCUITS SHALL BE PER THE FOLLOWING LENGTH OF RUNS:WIRE SIZE FOR 120V BRANCH CIRCUITS SHALL BE PER THE FOLLOWING LENGTH OF RUNS:
   1. 0 TO 70 FT RUN FROM PANELBOARD; NO.10 AWG MINIMUM.
   2. 71 TO 110 FT RUN: INCREASE ONE WIRE SIZE, I.E. NO.10 AWG BECOMES NO.8 AWG TO FIRST OUTLET.
   3. 111 TO 180 FT RUN: INCREASE TWO WIRE SIZES, I.E. NO.10 AWG BECOMES NO.6 AWG TO FIRST OUTLET.
   4. 280 AND ABOVE: WIRING SHALL BE SIZED FOR 3% MAXIMUM VOLTAGE DROP.

BOXES

A. WALL OUTLET BOXES SHALL BE 4 INCH SQUARE WITH A TOTAL DEPTH OF LESS THAN 2-1/2" GALVANIZED PRESSED STEEL WITH PLASTER RINGS OR GANG COVER, OR SIZED AS REQUIRED.
B. WHERE MORE THAN TWO SWITCHES OR DEVICES ARE LOCATED AT ONE POINT, USE GANGED BOXES AND COVERS.
C. ALL BOXES FOR ELECTRICAL EQUIPMENT SHALL HAVE COVERS.
D. DO NOT INSTALL BOXES BACK TO BACK OR THROUGH WALL. OFFSET OUTLET BOXES ON OPPOSITE SIDES OF WALL A MINIMUM OF 12" OR ON OPPOSITE SIDES OF STUD IN PARTITION WALLS. WHERE BACK TO BACK BOXES CANNOT BE AVOIDED, PROVIDE GYPSUM BOARD BETWEEN BOXES. PROVIDE PUTTY PADS ON ALL BOXES WHERE REQUIRED PER FBC 712.3.2.
E. IF A K.O. IS AVAILABLE IN THE BASE JUNCTION BOX, THEN NO TERMINATIONS ARE ALLOWED IN THE EXTENSION RINGS.

CONDUIT FITTINGS

A. COMPRESSION TYPE STEEL OR STEEL SETSCREW TYPE SHALL BE UTILIZED.
B. PROVIDE PROPER EXPANSION FITTINGS WHEN CROSSING BUILDING EXPANSION LINES.

WIRING DEVICES

A. WIRING DEVICES SHALL BE MANUFACTURED BY HUBBELL, BRYANT OR LEVITON.
B. RECEPTACLES SHALL BE HEAVY DUTY DUPLEX, 2 POLE, 3W, GROUNDING, 20A, 125V, DESIGNED FOR SIDE AND BACK WIRING WITH NEMA CONFIGURATION 5-20R. DESIGN SELECTION: HUBBELL CR-5352-I.
C. RECEPTACLES NEXT TO DATA OUTLETS SHALL BE TVSS. DESIGN SELECTION: HUBBELL 5360-ISA.
D. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SHALL BE NEMA 5-20R AND EQUAL TO HUBBELL GFR-5352-I.
E. SWITCHES SHALL BE HEAVY DUTY SINGLE POLE AC QUIET SWITCHES, 20 A, EQUAL TO HUBBELL CS-1221-I, CS-1223-I (3-WAY), CS-1224-I (4-WAY).
F. OCCUPANCY SENSOR SWITCHES SHALL BE LEVITON OSSMT-MD.
G. PROVIDE SMOOTH NYLON COVERS FOR ALL DEVICES.
H. INCANDESCENT DIMMERS SHALL BE 2000WATTS, 120V, LUTRON NOVA NT SERIES FOR LINE VOLTAGE AND LUTRON NOVA NTLV SERIES FOR LOW VOLTAGE. CONTRACTOR SHALL PROVIDE MAGNETIC LV DIMMERS FOR MAGNETIC TRANSFORMERS AND ELECTRONIC LV DIMMERS FOR ELECTRONIC TRANSFORMERS. CONTRACTOR SHALL PROVIDE MAGNETIC LV DIMMERS FOR MAGNETIC TRANSFORMERS AND ELECTRONIC LV DIMMERS FOR ELECTRONIC TRANSFORMERS.
I. FLUORESCENT DIMMERS SHALL BE LUTRON NTHF SERIES WITH WATTAGE & VOLTAGE AS REQUIRED. PROVIDE LUTRON HI-LUME BALLASTS IN ALL FIXTURES AS REQUIRED.
J. 3-WAY DIMMERS SHALL BE LUTRON MA-600-COLOR (600 WATT), MA-1000-COLOR (1000 WATT) WITH LUTRON MA-R-COLOR REMOTE DIMMER. PROVIDE LUTRON HI-POWER 2-4-6 DIMMING MODULE FOR 1900 WATT, 3800WATT & 5700WATT DIMMING LOADS AS REQUIRED. PROVIDE LUTRON POWER BOOSTERS PB/ELVI OR FDBI AS REQUIRED.

SWITCHBOARDS

A. SWITCHBOARDS SHALL BE SQUARE 'D' QED-S POWER-STYLE GROUP MOUNTED MULTI-SECTION I-LINE SWITCHBOARDS.
B. SWITCHBOARDS SHALL BE DEAD-FRONT AND TOTALLY FRONT ACCESSIBLE.
C. PROVIDE STAND ALONE, MICROPROCESSOR BASED, 3-PH POWER METERING DEVICE MOUNTED RECESSED IN FRONT OF SWITCHBOARD. SQUARE 'D' POWER LOGIC MODEL CM2250. PROVIDE CURRENT-TRANSFORMERS & RELAYING IN SIZES AS REQUIRED.
D. ALL BREAKER SHALL BE 100% CURRENT RATED & INCLUDE GROUND FAULT & SHUNT-TRIP.
E. MEGGER CHECK PHASE-TO-PHASE & PHASE-TO-GROUND INSULATION LEVELS PRIOR TO ENERGIZATION.

MOTOR AND CIRCUIT DISCONNECTS

A. DISCONNECT SWITCHES MAY BE GENERAL DUTY FOR 240V, & SHALL BE HEAVY DUTY FOR 600V.
B. PROVIDE RAIN-TIGHT HUBS FOR EXTERIOR DISCONNECTS.
C. PROVIDE CLASS R REJECTION FUSE CLIPS & CLASS R FUSES.
D. FUSES SHALL BE MANUFACTURED BY BUSSMANN, LITTLE OR GOULD-SHAWMUT.
E. SERVICE DISCONNECT SWITCH SHALL BE HEAVY DUTY TYPE.

SUPPORTING DEVICES

A. LIGHTING FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE & NOT FROM CEILING GRID. SECURE A MINIMUM OF TWO CORNERS (OPPOSITE) TO STRUCTURE ABOVE WITH CHAIN OR WIRE.
B. FASTEN CONDUIT TO STRUCTURAL PARTS OF BUILDING.

GROUNDING

A. PROVIDE INSULATED GROUND CONDUCTORS IN ALL CONDUITS.
B. PROVIDE GROUNDING BUSHINGS FOR FEEDER CONDUITS.
C. TRANSFORMERS SHALL BE GROUNDED TO BUILDING STEEL WITH EXOTHERMIC CONNECTIONS.
D. SERVICE GROUND RESISTANCE SHALL BE MEASURED WITHOUT DEPENDING ON WATER PIPING SYSTEM & SHALL BE 25Ω OR LESS, IF GREATER THAN 25Ω, DRIVE ADDITIONAL GROUND RODS TO OBTAIN REQUIRED RESISTANCE.
E. GROUND METAL LIGHTING POLES AS REQUIRED BY N.E.C.

LIGHTING

A. U.L. LABELS MUST APPEAR ON ALL NEW LIGHTING FIXTURES. FLEXIBLE CONDUIT TAILS, UP TO 6' IN LENGTH, MAY BE USED BETWEEN JUNCTION BOXES & RECESSED LIGHTING FIXTURES. OUTLET BOXES MAY SERVE UP TO FOUR SEPARATELY RECESSED FIXTURES. BALLASTS SHALL BE ELECTRONIC HIGH-POWER FACTOR CBM LABELED.
B. PROVIDE PROPER TRIM PER REFLECTED CEILING PLAN OR ACTUAL CEILING INSTALLED.
C. PROVIDE NEW LAMPS IN ALL NEW FIXTURES.
D. PROVIDE FOUNDATIONS FOR ALL SITE LIGHTING FIXTURES/POLES AS RECOMMENDED BY MANUFACTURER.
E. SITE LIGHTING POLE FIXTURES SHALL BE RATED FOR 120 mph WINDS WITH 1.3 GUST FACTOR FOR 3SEC. PER FLORIDA BUILDING CODE 'FIGURE 1606'.
F. SITE LIGHTING FIXTURES LOCATED BETWEEN PARKING SPACES OR SUBJECT TO BEING DAMAGED BY VEHICLES, SHALL BE PROVIDED WITH 2' HIGH X 2' DIAMETER CONCRETE BASES.
G. LIGHTING FIXTURES IN MECHANICAL ROOMS, ETC., SHALL BE COORDINATED WITH EQUIPMENT.
H. H.LAMPS SHALL BE MANUFACTURED BY OSRAM-SYLVANIA, G.E., PHILLIPS OR VENTURE.
I. BALLASTS SHALL BE MANUFACTURED BY OSRAM-SYLVANIA, MAGNETIC-UNIVERSAL, ADVANCE, ESI OR VENTURE.
J. EMERGENCY BATTERY BALLASTS SHALL BE 1400 LUMENS MINIMUM.
K. PROVIDE ADDITIONAL BALLAST IN ALL FIXTURES INDICATED ON DRAWINGS AS BEING CONTROLLED VIA 'DUAL LEVEL SWITCHING.'
L. ALL INTERIOR LAMPS SHALL BE 3000°K, 3500°K, 4100°K KELVIN TEMPERATURE. COORDINATE WITH ARCHITECT FOR EXACT COLOR REQUIRED.
M. EMERGENCY BATTERY BALLASTS AND BATTERY OPERATED EXIT SIGNS AND/OR EMERGENCY LIGHTS SHALL BE WIRED AHEAD OF LOCAL SWITCHING MEANS.

SURGE SUPPRESSION EQUIPMENT

A. SURGE SUPPRESSORS AT SERVICE SHALL ALSO BE LISTED AS LIGHTNING ARRESTERS.
B. TVSS AT ENTRANCE SHALL BE LEA INTERNATIONAL GB-300S. TVSS'S AT DISTRIBUTION PANELS (400 AMPS OR GREATER) SHALL BE LEA INTERNATIONAL GB-100. TVSS'S AT PANELBOARDS SHALL BE LEA INTERNATIONAL LSS150. ACCEPTED SUBSTITUTIONS BY LIEBERT OR LEVITON.
C. PROVIDE LIGHTNING ARRESTOR ON SERVICE ENTRANCE IF TVSS IS NOT DUAL LISTED AS A LIGHTNING ARRESTER.

POWER PLAN LEGEND

SYMBOL:	DESCRIPTION:
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 18" AFF UNO
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 42" AFF OR ABOVE COUNTER
	DUPLEX RECEPTACLE, NEMA 5-20R, SPLIT WIRE, MOUNT 42" AFF UNO
GFI	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 18" AFF UNO (GROUND FAULT CIRCUIT INTERRUPTED)
GFI	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 42" AFF OR ABOVE COUNTER (GROUND FAULT CIRCUIT INTERRUPTED)
	DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH CEILING MOUNT UNO
	DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH FLOOR MOUNT UNO
	QUAD RECEPTACLE, 2 OF NEMA 5-20R, MOUNT 18" AFF UNO
	QUAD RECEPTACLE, 2 OF NEMA 5-20R, MOUNT 42" AFF OR ABOVE COUNTER
	SPECIAL PURPOSE OUTLET, NEMA CONFIGURATION AS SHOWN
J	JUNCTION BOX WITH BLANK PLATE; BRACKET INDICATES WALL MOUNTED.
	PANELBOARD (RECESSED FLUSH-MOUNTED UNO)
	PANELBOARD (SURFACE MOUNTED UNO)
	DATA OUTLET
	TELE DATA OUTLET
TV	CABLE TV OUTLET BOX FOR OWNER FURNISHED CABLE TV SYSTEM.
WAP	WIRELESS ACCESS POINT
	3/4" PLYWOOD TELEPHONE BACKBOARD
F	ELECTRICAL FAN
	REMOTE SHUNT TRIP DEVICE IN "BREAK GLASS" WEATHERPROOF BOX
X / X	FUSED SAFETY (DISCONNECT) SWITCH TOP NUMBER = FUSE RATING, BOTTOM NUMBER = DISCONNECT RATING USE ALL RK-1 FUSES
X	SAFETY (DISCONNECT) SWITCH, NON-FUSED NUMBER = DISCONNECT RATING

FIRE ALARM LEGEND

SYMBOL:	DESCRIPTION:
	NOTIFICATION DEVICE AUDIO-VISUAL WALL MOUNTED
C	NOTIFICATION DEVICE AUDIO-VISUAL CEILING MOUNTED
	NOTIFICATION DEVICE VISUAL WALL MOUNTED
P	MANUAL PULL STATION
S	SMOKE DETECTOR

LIGHTING PLAN LEGEND

SYMBOL:	DESCRIPTION:
A / a	2x2 LED FIXTURE. UPPER CASE LETTER DENOTES FIXTURE TYPE. REFER TO 'LIGHTING FIXTURE SCHEDULE' FOR FIXTURE SPECIFICATIONS AND MOUNTING. CIRCUIT CONDUIT OR SIDE NUMBERING DESIGNATES WHICH PANEL BOARD/CIRCUIT FIXTURES ARE CONNECTED TO. (TYPICAL FOR ALL LIGHTING FIXTURES)
	CEILING MOUNTED DOWNLIGHT FIXTURE (UNO IN LIGHT FIXTURE SCHEDULE)
	WALL MOUNTED LIGHTING FIXTURE
	LINEAR STRIP FIXTURE
	TRACK LIGHTING FIXTURE
	EXIT LIGHT, UNIVERSAL MOUNT AS SPECIFIED IN THE FIXTURE SCHEDULE. ARROW(S) INDICATE DIRECTION OF TRAVEL. VERIFY WITH ARCHITECTURAL FOR OPTIMUM MOUNTING LOCATION AND SINGLE OR DUAL FACE. CONNECT FIXTURE TO SAME CIRCUIT AS NORMAL LIGHTING CIRCUIT IN THAT ROOM AHEAD OF ANY CONTROL DEVICE. DOUBLE ARROW INDICATES NON DIRECTIONAL SIGN TYPICALLY PLACED OVER DOORS.
	UNIVERSAL MOUNT BATTERY OPERATED EMERGENCY LIGHT FIXTURE MOUNTED AT 8'-0" AFF UNO. PROVIDE INTEGRAL EMERGENCY BATTERY FOR 90 MIN OPERATION. FIXTURE SHALL BE CONNECTED TO SAME LIGHT CIRCUIT IN ROOM AHEAD OF ANY CONTROL DEVICE FOR CONSTANT POWER. VERIFY OPTIMUM MOUNTING LOCATION IN FIELD.
	UNIVERSAL MOUNT BATTERY OPERATED EMERGENCY LIGHT/ EXIT SIGN FIXTURE MOUNTED AT 8'-0" AFF UNO. PROVIDE INTEGRAL EMERGENCY BATTERY FOR 90 MIN OPERATION. FIXTURE SHALL BE CONNECTED TO SAME LIGHT CIRCUIT IN ROOM AHEAD OF ANY CONTROL DEVICE FOR CONSTANT POWER. VERIFY OPTIMUM MOUNTING LOCATION IN FIELD.
S	WALL SWITCH, SINGLE POLE, 120/277VAC, 20A, MOUNT 48" AFF UNO.
S_{OS}	WALL SWITCH OCCUPANCY SENSOR SWITCH, SEE OCCUPANCY SENSOR SCHEDULE FOR MORE INFORMATION, MOUNT 48" AFF UNO.
S_K	KEY CARD SWITCH.
	LIGHTING CONTROL PANEL / LIGHTING RELAY PANEL

BRANCH CIRCUITS

	RACEWAY CONDUIT CONCEALED ABOVE CEILING OR WITHIN WALL UNLESS OTHERWISE NOTED. EACH CIRCUIT SHALL CONSIST OF PHASE, NEUTRAL AND GROUND CONDUCTORS. FOR LIGHTING CIRCUITS PROVIDE REQUIRED SWITCH LEGS TO ACHIEVE SWITCHING INDICATED ON PLANS. CONTRACTOR MAY COMBINE CIRCUITS INTO A COMMON HOMERUN CONSISTING OF A MAXIMUM OF A COMMON NEUTRAL/GROUND AND (3) PHASE CONDUCTORS (A, B AND C PHASE). HOWEVER, A SEPARATE NEUTRAL SHALL BE PROVIDED FOR ALL CIRCUITS SERVING COMPUTERS (DATA) CIRCUITS. SERVICING DATA IS DEFINED AS ANY RECEPTACLE NEXT TO A DATA OUTLET OR SPECIFICALLY SERVING A DATA PIECE OF EQUIPMENT.
A-1,2,3	HOME RUN TO PANEL ALL HOMERUNS SHALL BE #10 AWG, 3/4"C., MINIMUM. WIRING HOME RUN: LETTER INDICATES PANEL; NUMBER IS BRANCH CIRCUIT(S)

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES.
2. ALL MATERIAL SHALL BE NEW AND SHALL CONFIRM WITH THE STANDARDS OF THE NATIONAL MANUFACTURERS ASSOCIATION.
3. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE ONLY THE GENERAL ARRANGEMENT. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
4. ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL POWER CONNECTIONS TO HVAC, PLUMBING, AND OTHER EQUIPMENT AS REQUIRED.
5. A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
6. ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
7. ALL WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT, INTERMEDIATE METAL CONDUIT, OR EMT. 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.
8. BRANCH CIRCUIT 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 SHALL BE SOLID, UNLESS OTHERWISE NOTED.
9. BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE THHN OR THWN AS REQ'D.
10. PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.
11. PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS.
12. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC. SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.
13. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). PENETRATIONS OF REQUIRED SMOKE PARTITIONS SHALL BE SEALED USING METHODS APPROVED UNDER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS SMOKE STOPPING IS ACCOMPLISHED.
14. ALL RACEWAYS SHALL BE CONCEALED UNLESS OTHERWISE NOTED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CONCEALING RACEWAYS AFTER INITIAL CONSTRUCTION.
15. COMMISSIONING: WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENSORS, OR DAYLIGHT CONTROLS ARE INSTALLED, COMMISSIONING SHALL BE ADJUSTMENTS YIELD ACCEPTABLE PERFORMANCE; FOR ANY TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS, CONFIRM THAT PROGRAMMING TURNS LIGHTS OFF; FOR ANY PHOTOSENSOR CONTROLS, CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS REDUCE ELECTRIC LIGHTS BASED ON THE AMOUNT OF USABLE DAYLIGHT IN SPACE AS SPECIFIED. COMMISSIONING SHALL BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF THE LIGHTING CONTROLS CERTIFIED INCLUDED IN SHOP DRAWING / PRODUCT DATA SUBMITTAL.
16. C.T. CABINET MAY NOT BE SHOWN ON THE DRAWINGS, PRIOR TO BID COORDINATE C.T. CABINET REQUIREMENTS WITH LOCAL UTILITY PROVIDER.
17. ALL ELECTRICAL SERVICE EQUIPMENT MUST BE APPROVED BY THE UTILITY COMPANY, AND THE INSTALLATION MUST MEET ALL NEC, AHJ, AND UTILITY COMPANY REQUIREMENTS.
18. COORDINATE SPD REQUIREMENTS WITH MANUFACTURER PRIOR TO BID.

ABBREVIATIONS

A	AMPERE	KCMIL	THOUSAND CIRCULAR MILS
AF	AMPERE FRAME	KVA	KILOVOLT-AMPERE
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AFG	ABOVE FINISHED GRADE	KWH	KILOWATT-HOUR
AHJ	AUTHORITY HAVING JURISDICTION	LRP	LIGHTING RELAY PANEL
AIC	AMPERE INTERRUPTING CAPACITY	LTG	LIGHT, LIGHTING
AT	AMPERE TRIP	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANEL
BKR	BREAKER	MH	METAL HALIDE LIGHT, MAN HOLE
C	CONDUIT OR CONDUCTOR	MLO	MAIN LUGS ONLY
CB	CIRCUIT BREAKER	N, NEUT	NEUTRAL (ELECTRICAL)
CLG	CEILING	NEC	NATIONAL ELECTRICAL CODE)
CU	CONDENSING UNIT (HVAC), COPPER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN.
DS	DISCONNECT (SAFETY) SWITCH	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
EC	EMPTY CONDUIT	NL	NIGHT LIGHT (UNSWITCHED)
EF	EXHAUST FAN	PH	PHASE (ELECTRICAL)
ELE	ELECTRICAL, ELECTRIC	PNL	PANEL
EM	EMERGENCY	PNLB	PANELBOARD
EMT	ELECTRICAL METALLIC TUBING	PWR	POWER (ELECTRICAL)
ENT	ELECTRICAL NONMETALLIC TUBING	RCPT	RECEPTACLE
EWH	ELECTRIC WATER HEATER	RMC	RIGID METAL CONDUIT
EWC	ELECTRIC WATER COOLER	RNC	RIGID NONMETALLIC CONDUIT
EX	EXISTING	SW	SWITCH
FMC	FLEXIBLE METAL CONDUIT	TEL	TELEPHONE
FMT	FLEXIBLE METAL TUBING	TTB	TELEPHONE TERMINAL BOARD
GND	GROUND (ELECTRICAL)	UG	UNDERGROUND
GFI	GROUND FAULT INTERRUPTER	UON	UNLESS OTHERWISE NOTED
HP	HORSE POWER	V, VAC	VOLT, VOLT AC
HZ	HERTZ (ELECTRICAL)	W	WATT
IGND	ISOLATED GROUND	WP	WEATHERPROOF
IMC	INTERMEDIATE METAL CONDUIT	XFMR	POWER TRANSFORMER
JB	JUNCTION BOX		

VOLTAGE DROP

THE PROJECT IS IN COMPLIANCE WITH THE NEC 2017. FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD. BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD.

CODE VERSION

THIS PROJECT IS DESIGNED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE AND 2017 NATIONAL ELECTRICAL CODE .

DIMMIMG AND OCCUPANCY SENSOR

SYMBOL	TYPE	MODEL	DESCRIPTION
S^D_{os}	DIMMING SENSOR SWITCH	WSX-PDT-D	DUAL TECHNOLOGY PIR/MICROPHONICS WITH DIMMING
S^D	DIMMING SWITCH	WPD	DIMMER SWITCH
S_{os}	WALL SENSOR SWITCH	WSX-PDT	DUAL TECHNOLOGY PIR/MICROPHONICS
OS	CEILING OCCUPANCY SENSOR	CMR PDT 9 ADC	DUAL TECHNOLOGY PIR/MICROPHONICS PHOTOCELL/DIMMING

NOTE: SELECTION IS BASED ON ACUITY BRANDS, PROVIDE EQUIPMENT WITH SAME OR EQUAL SPECIFICATIONS, COORDINATE WITH OWNER/ARCHITECT PRIOR TO PURCHASE.

GENERAL NOTES

1. ALL WORK SHALL BE PROVIDED IN ACCORDANCE WITH CODES AND STANDARDS REFERENCED THROUGHOUT THE SPECIFICATIONS. COMPLY WITH OWNERS DESIGN & CONSTRUCTION STANDARDS.
   2020 FLORIDA BUILDING CODE, 7TH EDITION.
   • BUILDING CODE
   • PLUMBING CODE
   • FUEL GAS CODE
   • MECHANICAL CODE
   • ENERGY CONSERVATION CODE
   • NATIONAL ELECTRICAL CODE 2017
1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL FIELD DIMENSIONS, LOCATIONS AND CONDITIONS PRIOR TO THE INSTALLATION OF ANY MATERIALS AND COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES THAT WILL AFFECT THE WORK FOR RESOLUTION.
2. THE CONTRACTOR SHALL PAY FOR INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
4. ALL LABOR, MATERIALS AND INSTALLATIONS MUST COMPLY WITH THE CODES, RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
5. CONTRACTOR SHALL MAINTAIN PROPER PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING SAFETY REGULATIONS.
6. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
7. THE CONTRACTOR SHALL COOPERATE WITH SUBCONTRACTORS TO MANAGE EQUIPMENT, MATERIALS, AND OTHER SERVICES REQUIRED FOR SMOOTH FLOW OF THE PROJECT.
8. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF EQUIPMENT AND MATERIALS.
9. THE CONTRACTOR SHALL MANAGE GENERATED WASTE.
10. ALL EQUIPMENT AND SERVICEABLE DEVICES SHALL BE INSTALLED WITH ACCESS AND CLEARANCE FOR MAINTENANCE, REPLACEMENT AND/OR USE. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES TO PROVIDE THIS ACCESS AND CLEARANCE. INSTALL ALL EQUIPMENT, DEVICES AND MATERIALS PER MANUFACTURER'S INSTRUCTIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTION AND MISALIGNMENT ACCORDING TO APPLICABLE CODES AND STANDARDS.
12. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE ARCHITECT AT COMPLETION OF CONSTRUCTION.
13. ANY DISCREPANCY WHICH EXISTS BETWEEN THE REQUIREMENTS BY THE PLANS, SPECIFICATIONS, SAID CODES, RULES AND REGULATIONS, SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT, IN WRITING FOR RESOLUTION. IF ANY CHANGE IN THE PLANS AND / OR SPECIFICATIONS OCCURS AS A RESULT OF THE REQUIREMENTS OF THE LIFE SAFETY CODE (NFPA 101) OR ANY OTHER AUTHORITIES HAVING JURISDICTION AFTER THE SUBMISSIONS OF BIDS, THEN THE BIDDERS WILL BE GIVEN THE OPPORTUNITY TO ADJUST THEIR BIDS, IF NECESSARY, ONLY FOR THE CHANGE.
14. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKERBOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
15. NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
16. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
17. ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST THE WIND LOAD REQUIREMENT INDICATED IN THE STRUCTURAL DRAWINGS.
18. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES.
19. BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
20. REPLACE SIDEWALKS OR PAVEMENT DAMAGED BY OR DURING CONSTRUCTION OF THIS PROJECT.
21. ALL EXPOSED PIPES, CONDUITS OR DUCTS IN FINISHED AREAS, WHETHER SHOWN ON DRAWINGS OR NOT, SHALL BE FURRED OUT WITH GYPSUM BOARD.
22. ALL MATERIALS AND CONSTRUCTION TO BE INCORPORATED IN THE WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE ASTM SPECIFICATIONS APPLICABLE AND SHALL CONFORM TO THE STANDARDS AND RECOMMENDATIONS OF THE VARIOUS TRADE INSTITUTES (A.C.I., A.I.S.C., ETC.) WHERE APPLICABLE.
23. LOCATION OF ACCESS DOORS SUPPLIED BY MECHANICAL TRADES AND INSTALLED BY OTHERS SHALL BE DETERMINED IN THE FIELD THROUGH COORDINATION OF TRADES, LOCATION OF LIGHT FIXTURES SHALL GOVERN POSITION OF DUCTS AND PIPES FOR WHICH ACCESS DOORS ARE REQUIRED. ACCESS DOORS SHALL NOT BE PLACED IN INACCESSIBLE POSITIONS OR IN THE WAY OF LIGHTS, GRILLS, REGISTERS, CONCEALED BY CASEWORK, ETC.
24. THE CONTRACTOR SHALL DO ALL CUTTING AND PATCHING REQUIRED TO PERFORM ALL THE WORK INDICATED ON THE DRAWINGS AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.
25. ALL PIPING AND WIRING SHALL BE REMOVED TO A POINT OF CONCEALMENT AND SHALL BE PROPERLY CAPPED AND PLUGGED.
26. THE CONTRACTOR SHALL NOT CONSTRUCT, UNLESS OTHERWISE NOTED, INTERIOR PARTITION WALLS TO FULL HEIGHT UNTIL ALL PIPES, DUCTS, ETC. ARE IN PLACE.
27. ALL VERTICAL SHAFTS SHALL HAVE A MINIMUM FIRE RATING OF 2-HOURS UNLESS REQUIRED OTHERWISE BY CODES DUE TO OCCUPANCY ADJACENCIES.
28. FIRE STOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTIONS AS PER SPECIFICATIONS.
29. IF THERE ARE ANY APPARENT CONFLICTS BETWEEN THE SPECIFICATIONS, DRAWINGS AND CODE REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY AND BE INCLUDED IN THE BID.
30. CONTRACTOR SHALL MAKE HIMSELF/HERSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECTS/ENGINEER UPON REQUEST.
31. PROVIDE MAINTENANCE MANUALS FOR ALL PIECES OF EQUIPMENT FOR OWNER'S USE FOR PREVENTATIVE MAINTENANCE AND GENERAL RECORDS. IDENTIFY EACH PIECE OF EQUIPMENT IN THE TABBED, 3 RING BINDER THAT MATCHES THE LABELS ON THE EQUIPMENT.
32. WHERE CROWDED LOCATIONS EXISTS OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, CONTRACTOR SHALL BE COORDINATED WITH ALL OTHER SHOWING THE EXACT LOCATION OF PIPES, DUCTS, CONDUITS AND EQUIPMENT. DRAWING SHALL BE BASED ON FIELD MEASUREMENT AND, AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION OF THE WORK.
33. WHENEVER A REFERENCE IS MADE TO A STANDARD, INSTALLATION AND MATERIALS SHALL COMPLY WITH THE LATEST PUBLISHED EDITION AT THE TIME THE PROJECT IS BID UNLESS OTHERWISE SPECIFIED.
34. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANEL BOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO THE STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.
35. THE TERM "PROVIDE" SHALL MEAN THE CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM.
36. IN GENERAL, ALL PIPING, WIRING AND DUCTWORK SHALL BE RUN IN THE CEILING SPACE UNLESS NOTED OR INDICATED OTHERWISE.
37. ALL RISES, DROPS, AND TRANSITIONS IN PIPING AND DUCTWORK MAY NOT NECESSARILY HAVE BEEN SHOWN.
38. INSTALL DUCTWORK, PIPING, ETC. AS HIGH AS POSSIBLE ABOVE CEILING WHILE MAINTAINING ACCESSIBILITY FOR EQUIPMENT AND DEVICES AS APPROPRIATE.

DRAWING INDEX - ELECTRICAL

E-001	ELECT. LEGENDS, GEN NOTES AND ABBREVIATIONS
E-100	SITE PLAN
E-101	ELECTRICAL FLOOR PLAN - BUILDING A
E-102	ELECTRICAL FLOOR PLAN - BUILDING B
E-401	ELECTRICAL ENLARGED PLANS
E-501	ELECTRICAL RISER, PANEL SCHEDULES AND DETAILS
E-601	PANEL SCHEDULES
E-602	PANEL SCHEDULES
E-901	LIGHTING SPECIFICATIONS

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ELECT. LEGENDS, GEN NOTES AND ABBREVIATIONS

Mitesh Smart
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Date: 2023.01.27 06:52:12 -04'00'

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MITESH K. SMART
LICENSE
No.52772
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 110.8.4.4 FBC-B AND CHAPTER 633, FLORIDA STATUES.

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E-001

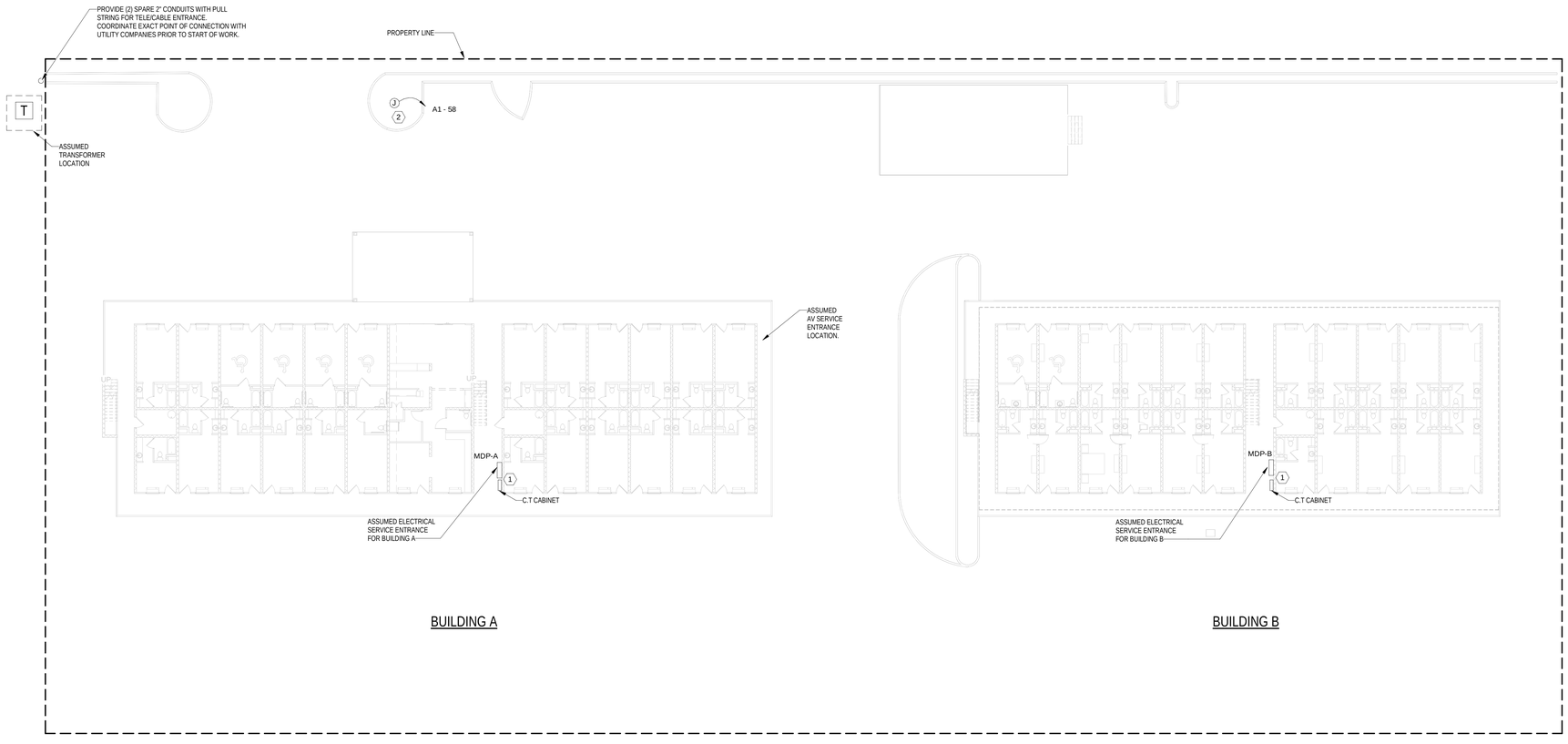
CONSTRUCTION DOCUMENTS

GENERAL NOTES:

1. REFER TO ARCHITECTURAL / CIVIL DRAWINGS TO COORDINATE EXACT REQUIREMENTS AND PLACEMENT OF ALL EXTERIOR DEVICES, EQUIPMENT AND FIXTURES. COORDINATE WITH OTHER DIVISIONS PRIOR TO ROUGH-IN.
2. VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.
3. SITE LIGHTING IS EXISTING, CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH ARCHITECT / OWNER IF REQUIRED TO CHANGE THE FIXTURE.
4. PRIOR TO START OF THE WORK, CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF POINT OF CONNECTION AND NOTIFY ENGINEER IF HAVE ANY DISCREPANCY.
5. EXISTING LAUNDRY FACILITY TO REMAIN, COORDINATE WITH ARCHITECT / OWNER PRIOR TO START OF THE WORK.

KEY NOTES:

1. COORDINATE EXACT LOCATION OF EXISTING ELECTRICAL SERVICE ENTRANCE AT THE SITE PRIOR TO START WORKING, PROVIDE NEW PANEL/SERVICE AS REQUIRED.
2. PROVIDE J-BOX FOR SIGNAGE / MONUMENT SIGN (SITE), IT SHALL BE CONTROLLED THROUGH LIGHTING CONTROL PANEL (LCP).



BUILDING A

BUILDING B

1 SITE PLAN
1/16" = 1'-0"

NORTH

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SITE PLAN

Mitesh Smart
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Date: 2023.01.27 06:52:51 -04'00'

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PROF. ENGINEER

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REV#	DATE	DESCRIPTION

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E-100

CONSTRUCTION DOCUMENTS

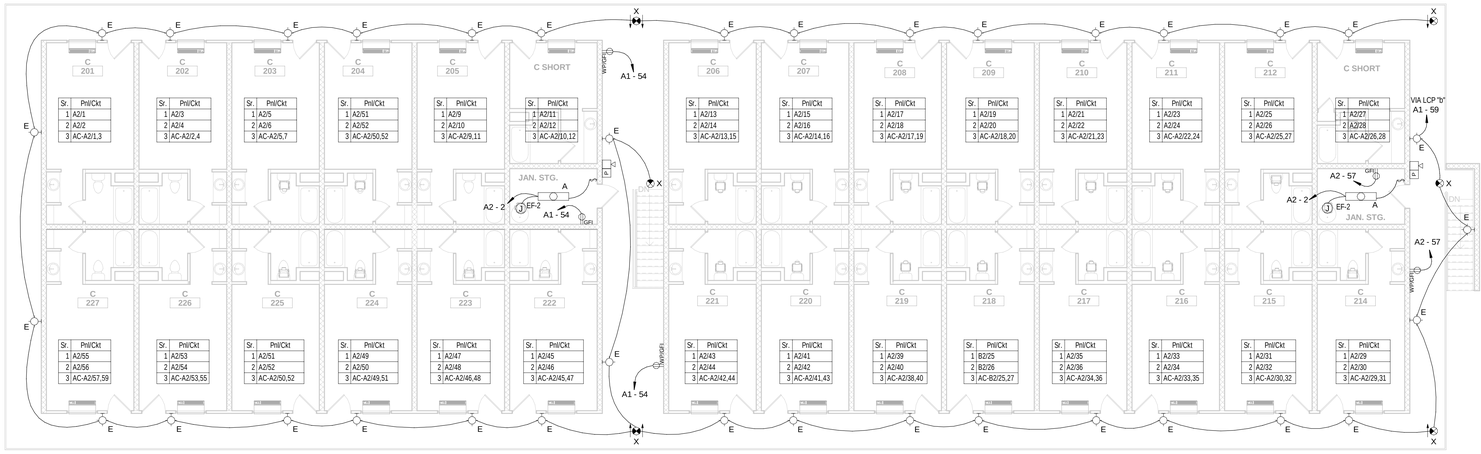
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GENERAL NOTES:

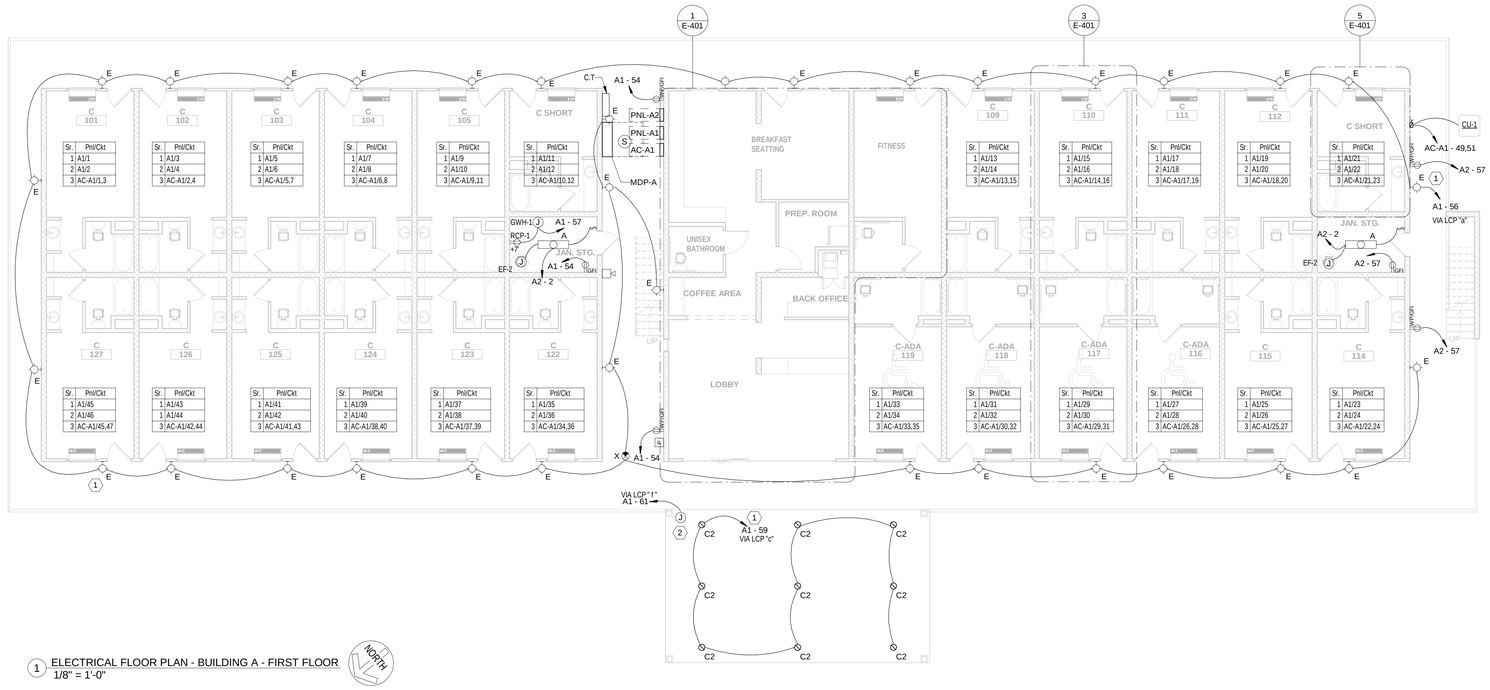
1. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND RECEPTACLES. COORDINATE WITH OTHER DIVISIONS PRIOR TO ROUGH-IN.
2. VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.
3. COORDINATE WITH MECH AND ELEC CONTRACTOR PRIOR TO PURCHASE OF EQUIPMENT/ BREAKERS .
4. FIRE ALARM SYSTEMS WITH THESE DRAWINGS ARE FOR REFERENCE ONLY. FIRE ALARM CONTRACTOR SHALL OBTAIN A FIRE ALARM SYSTEM PERMIT PRIOR TO INSTALLATION.
5. COORDINATE AND FIELD VERIFY EXISTING SERVICE AND ELECTRICAL PANELS LOCAITON PRIOR TO START OF THE WORK.
6. PROVIDE BOLLARDS / FENCE NEAR THE PANELS TO RESTRICT THE UNAUTHORISED ENTRY.

KEY NOTES:

1. ALL EXTERIOR LIGHTS WILL BE CONTROLLED THROUGH LIGHTING CONTROL PANEL (LCP)/ASTRONOMICAL TIMECLOCK.
2. PROVIDE J-BOX FOR SIGNAGE, IT SHALL BE CONTROLLED THROUGH LIGHTING CONTROL PANEL (LCP)/ASTRONOMICAL TIMECLOCK.



2 ELECTRICAL FLOOR PLAN - BUILDING A - SECOND FLOOR
1/8" = 1'-0"



1 ELECTRICAL FLOOR PLAN - BUILDING A - FIRST FLOOR
1/8" = 1'-0"

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ELECTRICAL FLOOR PLAN - BUILDING A

Mitesh Smart
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Date: 2023.01.27 07:28:42 -04'00'

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PROF. ENGINEER

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CONSTRUCTION DOCUMENTS

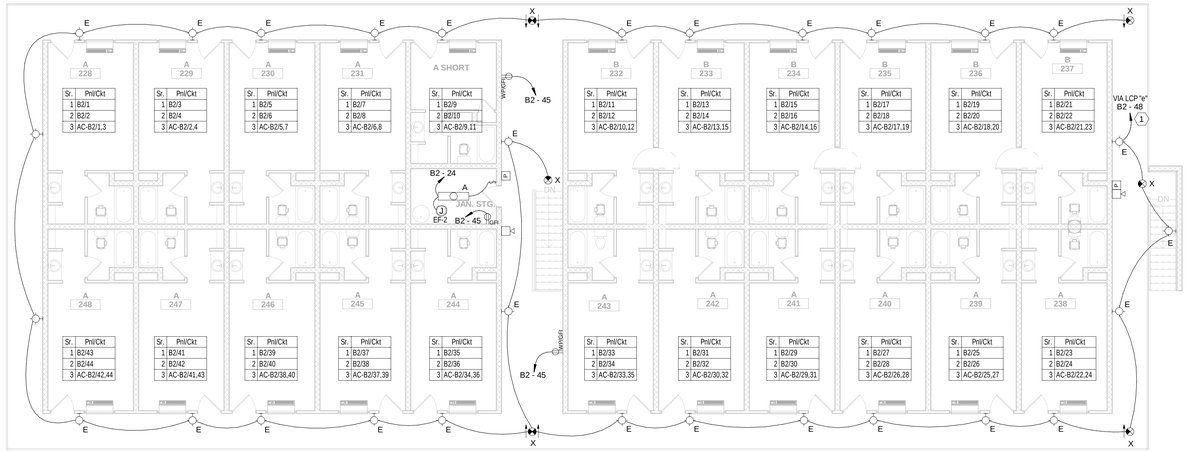
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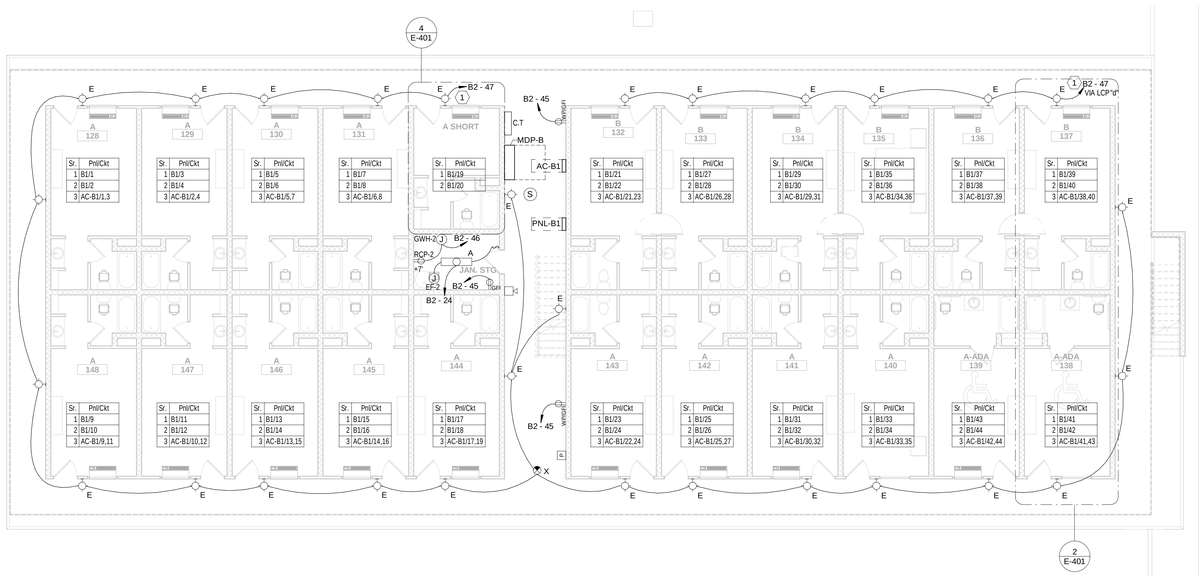
1. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND RECEPTACLES. COORDINATE WITH OTHER DIVISIONS PRIOR TO ROUGH-IN.
2. VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.
3. COORDINATE WITH MECH AND ELEC CONTRACTOR PRIOR TO PURCHASE OF EQUIPMENT/ BREAKERS .
4. FIRE ALARM SYSTEMS WITH THESE DRAWINGS ARE FOR REFERENCE ONLY. FIRE ALARM CONTRACTOR SHALL OBTAIN A FIRE ALARM SYSTEM PERMIT PRIOR TO INSTALLATION.
5. COORDINATE AND FIELD VERIFY EXISTING SERVICE AND ELECTRICAL PANELS LOCAITON PRIOR TO START OF THE WORK.
6. PROVIDE BOLLARDS / FENCE NEAR THE PANELS TO RESTRICT THE UNAUTHORISED ENTRY.

KEY NOTES:

1. ALL EXTERIOR LIGHTS WILL BE CONTROLLED THROUGH LIGHTING CONTROL PANEL (LCP).



2 ELECTRICAL FLOOR PLAN - BUILDING B - SECOND FLOOR
1/8" = 1'-0"



1 ELECTRICAL FLOOR PLAN - BUILDING B - FIRST FLOOR
1/8" = 1'-0"

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ELECTRICAL FLOOR PLAN - BUILDING B

Mitesh Smart
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MITESH K. SMART
PROF. ENGINEER

TO THE BEST OF THE ARCHITECTS K N O W L E D G E, THE PLANS AND SPECIFICATIONS C O M P L Y WITH THE A P P L I C A B L E M I N I MUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH S E C T I O N 110.8.4.4 FBC-B A N D CHAPTER 633, FLORIDA STATUES.

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CONSTRUCTION DOCUMENTS

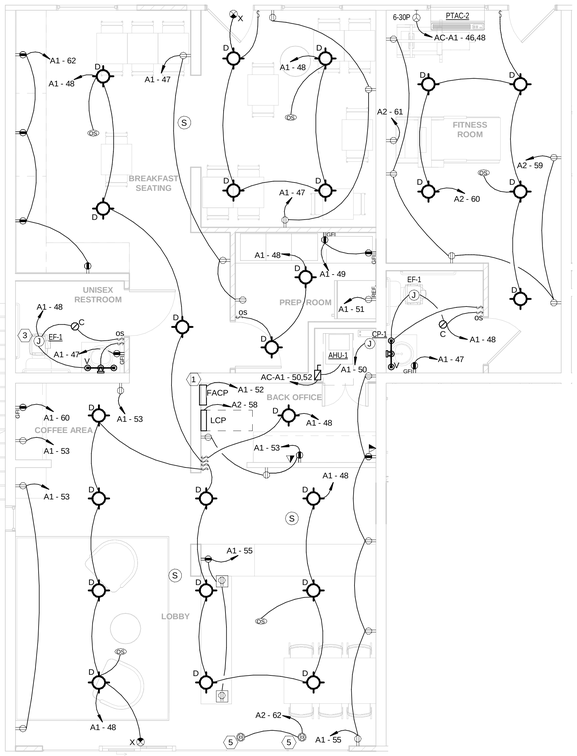
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GENERAL NOTES:

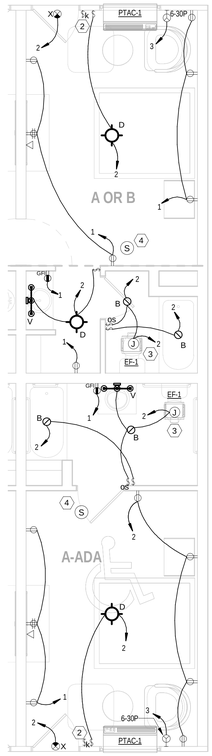
1. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS TO COORDINATE EXACT PLACEMENT OF ALL DEVICES, EQUIPMENT, FIXTURES, SWITCHES AND RECEPTACLES. COORDINATE WITH OTHER DIVISIONS PRIOR TO ROUGH-IN.
2. VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.
3. COORDINATE WITH MECH AND ELEC CONTRACTOR PRIOR TO PURCHASE OF EQUIPMENT/ BREAKERS.
4. FIRE ALARM SYSTEMS WITH THESE DRAWINGS ARE FOR REFERENCE ONLY. FIRE ALARM CONTRACTOR SHALL OBTAIN A FIRE ALARM SYSTEM PERMIT PRIOR TO INSTALLATION.
5. ALL RECEPTACLES IN GUEST ROOMS SHALL BE TAMPER RESISTANT.

KEY NOTES:

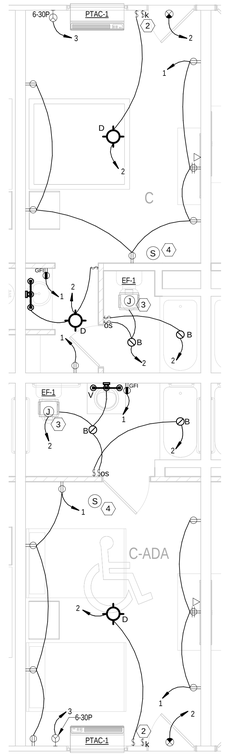
1. COORDINATE FIRE ALARM CONTROL PANEL EXACT LOCATION WITH EXISTING / ARCHITECT / OWNER, COORDINATE WITH FIRE ALARM DRAWINGS PRIOR TO ROUGH-IN.
2. PROVIDE CARD SWITCH GUEST ROOM OCCUPANCY CONTROL REQUIRED BY CODE.
3. CONNECT EXHAUST FAN TO LIGHTING CIRCUIT AND LIGHTING SWITCH IN THIS SPACE.
4. DO NOT PROVIDE SMOKE DETECTOR IN UNITS CLASSIFIED AS "SMOKING UNIT".
5. SHOW WINDOW ABOVE-CEILING RECEPTACLE WITHIN 18" OF STOREFRONT PER NEC 210.62.



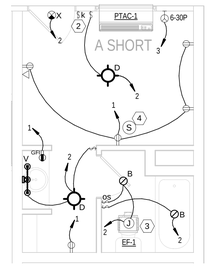
1 OFFICE - ELECTRICAL PLAN
1/4" = 1'-0"



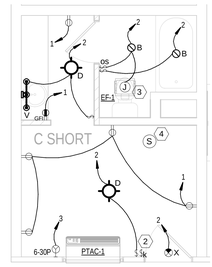
2 DOUBLE FULL SIZE ROOM AND HANDICAP - ELECTRICAL PLAN
1/4" = 1'-0"



3 KING ROOM AND HANDICAP ACC. KING ROOM - ELECTRICAL PLAN
1/4" = 1'-0"



4 A SHORT - ELECTRICAL PLAN
1/4" = 1'-0"



5 C SHORT - ELECTRICAL PLAN
1/4" = 1'-0"

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PANAMA CITY, FLORIDA

ELECTRICAL ENLARGED PLANS

Mitesh Smart
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PROF. ENGINEER

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LRP SCHEDULE

RELAY NO	DESCRIPTION	VOLTAGE
a	EXTERIOR LIGHTS LV1 (BLDG A)	120
b	EXTERIOR LIGHTS LV2 (BLDG A)	120
c	CANOPY LIGHTS (BLDG A)	120
d	EXTERIOR LIGHTS LV1 (BLDG B)	120
e	EXTERIOR LIGHTS LV2 (BLDG B)	120
f	SIGNAGE	120
g	-	120
h	-	120
i	-	120
j	-	120
k	-	120
m	-	120

LIGHTING CONTROL PANEL GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE NEW LIGHTING CONTROL PANEL.
2. THE BUILDING LIGHTING CONTROLS SHALL CONTROL THE FOLLOWING SWITCH-LEGS TO TURN ON/OFF DURING NORMAL BUSINESS HOURS AS DETERMINED BY OWNER:
   SWITCHLEGS - a,b,c,d,e ,f,g,h,i,j
   THESE LIGHTS SHALL HAVE LOW-VOLTAGE OVERRIDES.
3. ALL OTHER ROOMS ARE NOT CONNECTED TO THE BUILDING LIGHTING CONTROLS DUE TO THE FACT THAT THE LIGHTING IN THESE ROOM ARE CONTROLLED BY OCCUPANCY SENSORS OR MAUAL SWITCH WHICH WILL PROVIDE THE AUTOMATIC SHUT-OFF REQUIREMENT.
4. CONTRACTOR IS RESPONSIBLE FOR NECESSARY PROGRAMMING OF LIGHTING CONTROLS.

DETAILS OF OPERATION

1. THE LCP LIGHTING CONTROLS PROVIDE TIME OF DAY CONTROL FOR ALL OPEN AREAS. THE OWNER DEFINES NORMAL HOURS OF OPERATION, CONTROLLED BY THE ASTRONOMICAL TIMER.
2. THE OVERRIDE SWITCHES FUNCTION AS REGULAR SWITCHES DURING NORMAL HOURS. BUT ALLOW PERSONNEL WORKING DURING OFF-HOURS TO TEMPORARILY OVERRIDE THE LIGHTING CONTROL FOR A PERIOD OF UP TO 2-HOURS. THE OVERRIDE SWITCHES CAUSE THE LIGHTING FOR THE ZONE THEY ARE WIRED TO TURN ON FOR THE SPECIFIED TIME PERIOD.

LIGHTING CONTROL NOTE:

1. PRIOR TO PASSING FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURERS INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 AND C408.3.1.3 FOR THE APPLICABLE CONTROL TYPE.

LIGHTING FIXTURE SCHEDULE

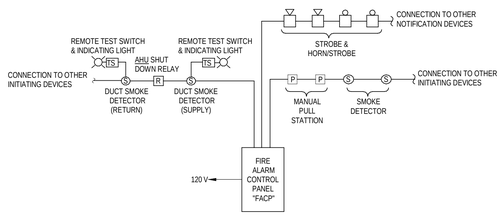
MARK	MANUFACTURER	CATLOGUE NUMBER	LAMP	VOLTAGE	WATT	DESCRIPTION
A	LITHONIA LIGHTING	BLT4_30L_ADP_LP830	LED	120 V	24 W	1X4 LED TROFFER LIGHT
B	GOTHAM EVO	EVO6SH_30_10_DFF_SMO	LED	120 V	10 W	6" LED DOWNLIGHT
C	LITHONIA LIGHTING	LDN6 30/15 L06AR_LD	LED	120 V	10 W	6" LED DOWNLIGHT
C2	LITHONIA LIGHTING	OLCFM 15	LED	120 V	17 W	11" LED DOWNLIGHT
D	LITHONIA LIGHTING	FMML 13 840	LED	120 V	28 W	13" LED LIGHT
E	LITHONIA LIGHTING	WDGE2 LED P1 30K 80CRI SRM	LED	120 V	10 W	WALL SCONCE LIGHT
V	TBD	SELECTION BY OWNER/ ARCHITECT	LED	120 V	20 W	VANITY LIGHT FIXTURE
X	LITHONIA LIGHTING	ECRG HO SQ M6	LED	120 V	4 W	EXIT LIGHT

LIGHTING FIXTURE SCHEDULE NOTES:

1. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUTSHEETS OF ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY FIXTURES. APPROVE SAME OR EQUAL LIGHTING FIXTURE SPECIFICATIONS WITH OWNER/ARCHITECT PRIOR TO PURCHASE.
2. ALL LAMPS SHALL BE LED TYPE UNO.
3. ALL EXTERIOR LIGHTING SHALL BE UL LISTED FOR WET LOCATION AND OUTDOOR APPLICATION.
4. ALL LIGHTING IN SHOWER AREA SHALL BE UL LISTED FOR DAMP / WET LOCATION.

NOTES:

1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED PER NFPA 72 AND THE APPROVED CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND SECURE A SEPARATE PERMIT.



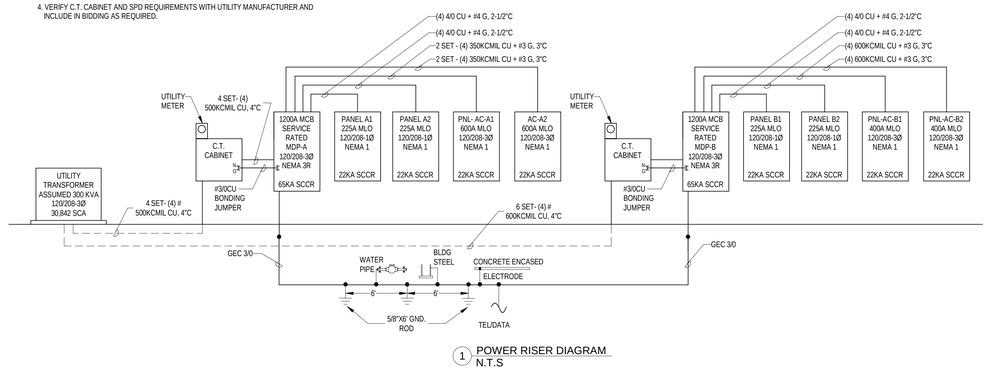
2 TYPICAL FIRE ALARM RISER DIAGRAM
N.T.S

RISER NOTES:

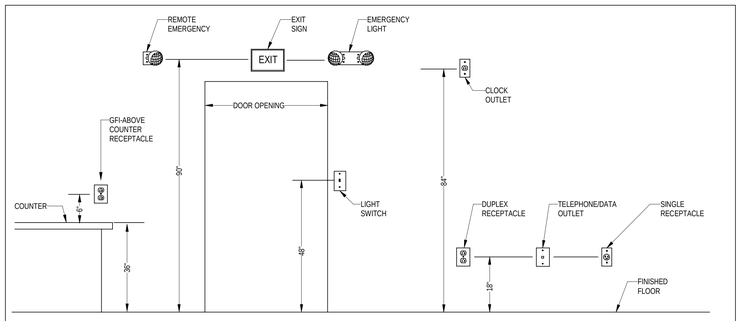
1. CONNECT NEW FEEDERS TO EXISTING TRANSFORMER. COORDINATE CONNECTION REQUIREMENTS WITH UTILITY COMPANY PRIOR TO START OF WORK. INCLUDE ALL ADDITIONAL CABINET HARDWARE, PAD MODIFICATIONS, TRANSFORMER MODIFICATIONS. VERIFY AIC RATING AND CONTACT ENGINEER IF DIFFERENT THAN ASSUMED.
2. PRIOR TO START OF THE WORK, CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF POINT OF CONNECTION AND NOTIFY ENGINEER IF HAVE ANY DISCREPANCY.
3. PANEL, MDP IS REGULAR RATED (80% RATED) PANEL.
4. VERIFY C.T. CABINET AND SPD REQUIREMENTS WITH UTILITY MANUFACTURER AND INCLUDE IN BIDDING AS REQUIRED.

VOLTAGE DROP AND AIC CALCULATION

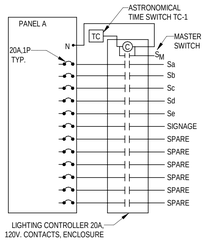
SR.	DESCRIPTION	AMP	VOLT	PH	WIRE SIZE	GND	DIST.(FT)	% V DROP	AIC
1	MDP A (FROM TRANSFORMER)	1200	208	3	4 SETS - 4#500 KCMIL CU	#3/0	250	1.69%	19264
2	MDP B (FROM TRANSFORMER)	1200	208	3	6 SETS - 4#600 KCMIL CU	#3/0	450	1.71%	18281
3	MDP A TO PANEL A1	225	208	3	4/0 CU	#4	30	0.35%	14604
4	MDP A TO PANEL A2	225	208	3	4/0 CU	#4	40	0.47%	13515
5	MDP A TO PANEL AC-A1	600	208	3	2 SETS - 4#350 KCMIL CU	#3	30	0.29%	17168
6	MDP A TO PANEL AC-A2	600	208	3	2 SETS - 4#350 KCMIL CU	#3	20	0.19%	17814
7	MDP B TO PANEL B1	200	208	3	4/0 CU	#4	10	0.11%	16605
8	MDP B TO PANEL B2	200	208	3	4/0 CU	#4	15	0.16%	15877
9	MDP B TO PANEL AC-B1	400	208	3	4#600 kCMIL CU	#3	20	0.17%	16141
10	MDP B TO PANEL AC-B2	400	208	3	4#600 kCMIL CU	#3	30	0.25%	15249



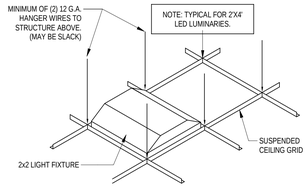
1 POWER RISER DIAGRAM
N.T.S



01 MOUNTING HEIGHT DETAIL
N.T.S.



02 LIGHTING CONTROL PANEL DETAIL
N.T.S.



03 LIGHT SUPPORT DETAIL
N.T.S.

ISP INTERNATIONAL SERVICE PARTNERS, LLC
386 S ATLANTIC AVE, UNIT 9
ORMOND BEACH, FL 32176
TEL: (407) 619-6442
COA #6797

ARCHITECTURAL DESIGN + ASSOCIATES INC.
AA26001959
801 S. Yonge St. Suite 4
Ormond Beach FL 32174
Ph: 386-676-2686

LA BRISA INN

5711 EAST HIGHWAY 98, PANAMA CITY, FLORIDA

ELECTRICAL RISER, PANEL SCHEDULES AND DETAILS

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 07:32:32 -04'00'

E-SIGN

MITESH K. SMART LICENSE No.52772 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 110.8.4.4 FBC-B AND CHAPTER 633, FLORIDA STATUES.

REV#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

E-501

CONSTRUCTION DOCUMENTS

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Branch Panel: A1

Location: CORRIDOR
Supply From: MDP-A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22KA
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: -

Notes:

CKT	Circuit Description	C (")	Wire Size (PH,NU,G)	BKR	A (VA)	B (VA)	BKR	Wire Size (PH,NU,G)	C (")	Circuit Description	CKT
1	C-101 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-101 LIGHTS	2
3	C-102 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-102 LIGHTS	4
5	C-103 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-103 LIGHTS	6
7	C-104 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-104 LIGHTS	8
9	C-105 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-105 LIGHTS	10
11	C-SHORT RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-SHORT LIGHTS	12
13	C-109 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-109 LIGHTS	14
15	C-110 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-110 LIGHTS	16
17	C-111 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-111 LIGHTS	18
19	C-112 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-112 LIGHTS	20
21	C-SHORT RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1	1080 175		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-SHORT LIGHTS	22
23	C-114 RECEPTACLE	1	1-#6, 1-#6, 1-#6	20 A/1		1440 175	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-114 LIGHTS	24
25	C-115 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1	1440 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-115 LIGHTS	26
27	C-ADA 116 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1		1440 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C- ADA 116 LIGHTS	28
29	C-ADA 117 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1	1440 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-ADA 117 LIGHTS	30
31	C-ADA 118 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1		1440 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-ADA 118 LIGHTS	32
33	C-ADA 119 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-ADA 119 LIGHTS	34
35	C-122 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-122 LIGHTS	36
37	C-123 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-123 LIGHTS	38
39	C-124 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-124 LIGHTS	40
41	C-125 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-125 LIGHTS	42
43	C-126 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-126 LIGHTS	44
45	C-127 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-127 LIGHTS	46
47	BREAK RM RECEP.	3/4	1-#10, 1-#10, 1-#10	20 A/1		1440 783	20 A/1	1-#10, 1-#10, 1-#10	3/4	BREAK RM, LOBBY LITS	48
49	SMALL APP. BREAK RM	3/4	1-#10, 1-#10, 1-#10	20 A/1	1500 180		20 A/1	1-#10, 1-#10, 1-#10	3/4	CP-1	50
51	REF. PREP. RM	3/4	1-#10, 1-#10, 1-#10	20 A/1		1200 500	20 A/1	1-#10, 1-#10, 1-#10	3/4	FACP	52
53	LOBBY RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1260 1080		20 A/1	1-#10, 1-#10, 1-#10	3/4	CORRIDOR RECEPTACLE	54
55	LOBBY RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1260 424	20 A/1	1-#10, 1-#10, 1-#10	3/4	EXT. LIGHTS FLOOR 1	56
57	GWH-1 & RCP-1	3/4	1-#10, 1-#10, 1-#10	20 A/1	162 100		20 A/1	1-#10, 1-#10, 1-#10	3/4	SIGNAGE J.BOX (SITE)	58
59	EXT. LIGHTS FLOOR 2	3/4	1-#10, 1-#10, 1-#10	20 A/1		517 1000	20 A/1	1-#10, 1-#10, 1-#10	3/4	COFFEE MAKER	60
61	SIGNAGE J.BOX	3/4	1-#10, 1-#10, 1-#10	20 A/1	1000 1000		20 A/1	1-#10, 1-#10, 1-#10	3/4	FOOD WARMER	62
63	SPARE	--	--	--		0 0	--	--	--	SPD	64
65	SPARE	--	--	--	0 0						66
			Total Load:		21787 VA	21756 VA					
			Total Amps:		209 A	209 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN LOAD	2700 VA	90.00%	2430 VA		
LIGHTING LOAD	6602 VA	50.00%	3301 VA	**Total Conn. Load:**	43544 VA
RECEPTACLE LOAD	34242 VA	64.60%	22121 VA	**Total Est. Demand:**	27852 VA
				Total Conn.:	209 A
				Total Est. Demand:	134 A

Notes:
PROCURE AND INSTALL PANEL AS TWO 42-POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 66-POSITION PANEL WITH AHJ APPROVAL.

Branch Panel: A2

Location: CORRIDOR
Supply From: MDP-A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22KA
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: -

Notes:

CKT	Circuit Description	C (")	Wire Size (PH,NU,G)	BKR	A (VA)	B (VA)	BKR	Wire Size (PH,NU,G)	C (")	Circuit Description	CKT
1	C-201 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 298		20 A/1	1-#10, 1-#10, 1-#10	3/4	C201 LIGHTS	2
3	C-202 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C202 LIGHTS	4
5	C-203 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-203 LIGHTS	6
7	C-204 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-204 LIGHTS	8
9	C-205 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-205 LIGHTS	10
11	C SHORT RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C SHORT LIGHTS	12
13	C-206 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-206 LIGHTS	14
15	C-207 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-207 LIGHTS	16
17	C-208 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-208 LIGHTS	18
19	C-209 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-209 LIGHTS	20
21	C-210 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-210 LIGHTS	22
23	C-211 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-211 LIGHTS	24
25	C-212 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-212 LIGHTS	26
27	C SHORT RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C SHORT LIGHTS	28
29	C-214 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-214 LIGHTS	30
31	C-215 RECEPTACLE	3/4	1-#6, 1-#6, 1-#6	20 A/1		1440 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-215 LIGHTS	32
33	C-216 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1	1440 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-216 LIGHTS	34
35	C-217 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1		1440 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-217 LIGHTS	36
37	C-218 RECEPTACLE	1	1-#8, 1-#8, 1-#8	20 A/1	1440 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-218 LIGHTS	38
39	C-219 RECEPTACLE	1	1-#8, 1-#8, 1-#8	20 A/1		1440 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-219 LIGHTS	40
41	C-220 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 25		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-220 LIGHTS	42
43	C-221 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-221 LIGHTS	44
45	C-222 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-222 LIGHTS	46
47	C-223 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-223 LIGHTS	48
49	C-224 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-224 LIGHTS	50
51	C-225 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-225 LIGHTS	52
53	C-226 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080 150		20 A/1	1-#10, 1-#10, 1-#10	3/4	C-226 LIGHTS	54
55	C-227 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1		1080 150	20 A/1	1-#10, 1-#10, 1-#10	3/4	C-227 LIGHTS	56
57	JANITOR/EXT. RECEPT.	3/4	1-#8, 1-#8, 1-#8	20 A/1	900 100		20 A/1	1-#10, 1-#10, 1-#10	3/4	LCP	58
59	FITNESS ROOM RECEPT.	3/4	1-#10, 1-#10, 1-#10	20 A/1		900 140	20 A/1	1-#10, 1-#10, 1-#10	3/4	FITNESS ROOM LIGHTS	60
61	FITNESS EQUIPMENT	3/4	1-#10, 1-#10, 1-#10	20 A/1	1000 1600		20 A/1	1-#8, 1-#8, 1-#8	3/4	SHOW WINDOW	62
63	SPARE	--	--	--		0 0	--	--	--	SPD	64
65	SPARE	--	--	--	0 0						66
			Total Load:		21562 VA	19340 VA					
			Total Amps:		204 A	186 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING LOAD	4462 VA	50.00%	2231 VA		
RECEPTACLE LOAD	36440 VA	63.72%	23220 VA	**Total Conn. Load:**	40902 VA
				Total Est. Demand:	25451 VA
				Total Conn.:	197 A
				Total Est. Demand:	122 A

Notes:
PROCURE AND INSTALL PANEL AS TWO 42-POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 66-POSITION PANEL WITH AHJ APPROVAL.

Branch Panel: AC-A1

Location: CORRIDOR
Supply From: MDP-A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MLO
Mains Rating: 600 A
MCB Rating: -

Notes:

CKT	Circuit Description	C (")	Wire Size (PH,NU,G)	BKR	A (VA)	B (VA)	C (VA)	BKR	Wire Size (PH,NU,G)	C (")	Circuit Description	CKT
1	C-101 PTAC-1	3/4	2-#8, 1-#8, 1-#8	30 A/2	2496 2496			30 A/2	2-#10, 1-#10, 1-#10	3/4	C-102 PTAC-1	2
3						2496 2496						4
5	C-103 PTAC-1	3/4	2-#10, 1-#10, 1-#10	30 A/2			2496 2496	30 A/2	2-#10, 1-#10, 1-#10	3/4	C-104 PTAC-1	6
7					2496 2496							8
9	C-105 PTAC-1	3/4	2-#10, 1-#10, 1-#10	30 A/2		2496 2496		20 A/2	2-#10, 1-#10, 1-#10	3/4	C-SHORT PTAC-1	10
11							2496 2496					12
13	C-109 PTAC-1	3/4	2-#10, 1-#10, 1-#10	30 A/2	2496 2496			30 A/2	2-#8, 1-#8, 1-#8	3/4	C-110 PTAC-1	14
15						2496 2496						16
17	C-111 PTAC-1	3/4	2-#8, 1-#8, 1-#8	30 A/2			2496 2496	30 A/2	2-#8, 1-#8, 1-#8	3/4	C-112 PTAC-1	18
19					2496 2496							20
21	C-SHORT PTAC-1	1	2-#6, 1-#6, 1-#6	30 A/2		2496 2496		30 A/2	2-#6, 1-#6, 1-#6	1	C-114 PTAC-1	22
23							2496 2496					24
25	C-115 PTAC-1	1	2-#6, 1-#6, 1-#6	30 A/2	2496 2496			30 A/2	2-#6, 1-#6, 1-#6	1	C-116 PTAC-1	26
27						2496 2496						28
29	C-117 PTAC-1	3/4	2-#8, 1-#8, 1-#8	30 A/2			2496 2496	30 A/2	2-#8, 1-#8, 1-#8	3/4	C-ADA 118 PTAC-1	30
31					2496 2496							32
33	C-ADA 119 PTAC-1	3/4	2-#8, 1-#8, 1-#8	30 A/2		2496 2496		30 A/2	2-#10, 1-#10, 1-#10	3/4	C-122 PTAC-1	34
35							2496 2496					36
37	C-123 PTAC-1	3/4	2-#10, 1-#10, 1-#10	30 A/2	2496 2496			30 A/2	2-#8, 1-#8, 1-#8	3/4	C-124 PTAC-1	38
39						2496 2496						40
41	C-125 PTAC-1	3/4	2-#8, 1-#8, 1-#8	30 A/2			2496 2496	30 A/2	2-#8, 1-#8, 1-#8	3/4	C-126 PTAC-1	42
43					2496 2496							44
45	C-127 PTAC-1	1	2-#6, 1-#6, 1-#6	30 A/2		2496 2496		30 A/2	2-#10, 1-#10, 1-#10	3/4	FITNESS RM. PTAC-2	46
47							2496 2496					48
49	CU-1	3/4	2-#10, 1-#10, 1-#10	20 A/2	1248 3744			40 A/2	2-#8, 1-#8, 1-#10	3/4	AHU-1	50
51						1248 3744						52
53	SPARE	--	--	--			0 0	--	--	--	SPARE	54
55	SPARE	--	--	--	0 0							56
57	SPARE	--	--	--		0 0		--	--	--	SPD	58
59	SPARE	--	--	--			0 0					60
			Total Load:		44928 VA	44928 VA	39936 VA					
			Total Amps:		381 A	381 A	333 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC LOAD	129792 VA	100.00%	129792 VA		
				Total Conn. Load:	129792 VA
				Total Est. Demand:	129792 VA
				Total Conn.:	360 A
				Total Est. Demand:	360 A

Notes:
PROCURE AND INSTALL PANEL AS TWO 42-POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 60-POSITION PANEL WITH AHJ APPROVAL.

Branch Panel: AC-A2

Location: CORRIDOR
Supply From: MDP-A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MLO
Mains Rating: 600 A
MCB Rating: -

Notes:

CKT	Circuit Description	C (")	Wire Size (PH,NU,G)	BKR	A (VA)	B (VA)	C (VA)	BKR	Wire Size (PH,NU,G)	C (")	Circuit Description	CKT
1	C-201 PTAC-1	3/4	2-#1, 1-#1, 1-#1	30 A/2	2496 2496			30 A/2	2-#1, 1-#1, 1-#1	1-1/2	C-202 PTAC-1	2
3						2496 2496						4
5	C-203 PTAC-1	3/4	2-#1, 1-#1, 1-#1	30 A/2			2496 2496	30 A/2	2-#1, 1-#1, 1-#1	3/4	C-204 PTAC-1	6
7					2496 2496							8
9	C-205 PTAC-1	3/4	2-#1, 1-#1, 1-#1	30 A/2		2496 2496		30 A/2	2-#1, 1-#1, 1-#1	3/4	C SHORT PTAC-1	10
11							2496 2496					12
13	C-206 PTAC-1	3/4	2-#1, 1-#1, 1-#1	30 A/2	2496 2496			30 A/2	2-#1, 1-#1, 1-#1	3/4	C-207 PTAC-1	14
15						2496 2496						16
17	C-208 PTAC-1	3/4	2-#2, 1-#2, 1-#2	30 A/2			2496 2496	30 A/2	2-#2, 1-#2, 1-#2	3/4	C-209 PTAC-1	18
19					2496 2496							20
21	C-210 PTAC-1	3/4	2-#2, 1-#2, 1-#2	30 A/2		2496 2496		30 A/2	2-#2, 1-#2, 1-#2	3/4	C-211 PTAC-1	22
23							2496 2496					24
25	C-212 PTAC-1	3/4	2-#2, 1-#2, 1-#2	30 A/2	2496 2496			30 A/2	2-#2, 1-#2, 1-#2	1	C SHORT PTAC-1	26
27						2496 2496						28
29	C-214 PTAC-1	3/4	2-#2, 1-#2, 1-#2	30 A/2			2496 2496	30 A/2	2-#2, 1-#2, 1-#2	3/4	C-215 PTAC-1	30
31					2496 2496							32
33	C-216 PTAC-1	3/4	2-#2, 1-#2, 1-#2	30 A/2		2496 2496		30 A/2	2-#1, 1-#1, 1-#1	3/4	C-217 PTAC-1	34
35							2496 2496					36
37	C-218 PTAC-1	3/4	2-#1, 1-#1, 1-#1	30 A/2	2496 2496			30 A/2	2-#1, 1-#1, 1-#1	3/4	C-219 PTAC-1	38
39						2496 2496						40
41	C-220 PTAC-1	3/4	2-#1, 1-#1, 1-#1	30 A/2			2496 75	30 A/2	2-#10, 1-#10, 1-#10	3/4	C-221 PTAC-1	42
43					2496 75							44
45	C-222 PTAC-1	1	2-#1, 1-#1, 1-#1	30 A/2		2496 2496		30 A/2	2-#1, 1-#1, 1-#1	1	C-223 PTAC-1	46
47							2496 2496					48
49	C-224 PTAC-1	1	2-#1, 1-#1, 1-#1	30 A/2	2496 2496			30 A/2	2-#1, 1-#1, 1-#1	1	C-225PTAC-1	50
51						2496 2496						52
53	C-226 PTAC-1	1-1/2	2-#1, 1-#1, 1-#1	30 A/2			2496 0	--	--	--	SPARE	54
55					2496 0							56
57	C-227 PTAC-1	2	2-#1/0, 1-#1/0, 1-#1/0	30 A/2		2496 0		--	--	--	SPD	58
59							2496 0					60
			Total Load:		45003 VA	47424 VA	42507 VA					
			Total Amps:		378 A	398 A	354 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC LOAD	134934 VA	100.00%	134934 VA		
				Total Conn. Load:	134934 VA
				Total Est. Demand:	134934 VA
				Total Conn.:	375 A
				Total Est. Demand:	375 A

Notes:
PROCURE AND INSTALL PANEL AS TWO 42-POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 60-POSITION PANEL WITH AHJ APPROVAL.

Switchboard: MDP-A

Location: BUILDING A
Supply From: UTILITY TRANSFORMER
Mounting: SURFACE
Enclosure: NEMA 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65KAIC
Mains Type: MCB
Mains Rating: 1200 A
MCB Rating: 1200 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL AC-A1	3	600 A	600 A	129792 VA	
2	PANEL AC-A2	3	600 A	600 A	134934 VA	
3	PANEL A1	2	225 A	200 A	43544 VA	
4	PANEL A2	2	225 A	200 A	40902 VA	
5						
6	SPD	3	30 A	30 A	0 VA	
				Total Conn. Load:	349172 VA	
				Total Amps:	969 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC LOAD	264726 VA	100.00%	264726 VA		
LIGHTING LOAD	11064 VA	50.00%	5532 VA	**Total Conn. Load:**	349172 VA
RECEPTACLE LOAD	70682 VA	57.07%	40341 VA	**Total Est. Demand:**	313029 VA
KITCHEN LOAD	2700 VA	90.00%	2430 VA	**Total Conn.:**	969 A
				Total Est. Demand:	869 A

Notes:

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LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

PANEL SCHEDULES

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Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 07:33:15 -04'00'

E-SIGN

MITESH K. SMART LICENSE No.52772 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

TO THE BEST OF THE ARCHITECTS KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 110.8.4.4 FBC-B AND CHAPTER 633, FLORIDA STATUES.

REV#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

E-601

CONSTRUCTION DOCUMENTS

Branch Panel: B1

Location: CORRIDOR
Supply From: MDP-B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22KA
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: -

Notes:

CKT	Circuit Description	C (")	Wire Size (PH,NU,G)	BKR	A (VA)		B (VA)		BKR	Wire Size (PH,NU,G)	C (")	Circuit Description	CKT
1	A-128 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-128 LIGHTS	2
3	A-129 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-129 LIGHTS	4
5	A-130 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-130 LIGHTS	6
7	A-131 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-131 LIGHTS	8
9	A-148 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-148 LIGHTS	10
11	A-147 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-147 LIGHTS	12
13	A-146 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-146 LIGHTS	14
15	A-145 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-145 LIGHTS	16
17	A-144 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-144 LIGHTS	18
19	A-SHORT RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	175	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-SHORT LIGHTS	20
21	B-132 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1260	110			20 A/1	1-#10, 1-#10, 1-#10	3/4	B-132 LIGHTS	22
23	A-143 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-143 LIGHTS	24
25	A-142 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	900	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-142 LIGHTS	26
27	B-133 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	B-133 LIGHTS	28
29	B-134 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	B-134 LIGHTS	30
31	A-141 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-141 LIGHTS	32
33	A-140 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1440	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-140 LIGHTS	34
35	B-135 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	B-135 LIGHTS	36
37	B-136 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	B-136 LIGHTS	38
39	B-137 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	B-137 LIGHTS	40
41	A-ADA 138 RECEPTACLE	1	1-#6, 1-#6, 1-#6	20 A/1	1620	147			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-ADA 138 LIGHTS	42
43	A-ADA 139 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1			1440	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-ADA 139 LIGHTS	44
45	SPARE	--	--	--	0	--			--	--	--	SPACE	46
47	SPARE	--	--	--			0	--	--	--	--	SPACE	48
49	SPARE	--	--	--	0	--			--	--	--	SPACE	50
51	SPARE	--	--	--			0	--	--	--	--	SPACE	52
53	SPARE	--	--	--	0	--			--	--	--	SPACE	54
55	SPARE	--	--	--			0	--	--	--	--	SPACE	56
57	SPARE	--	--	--	0	0			--	--	--	SPD	58
59	SPARE	--	--	--			0	0					60
				Total Load:	14387 VA		13915 VA						
				Total Amps:	138 A		134 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING LOAD	3282 VA	50.00%	1641 VA		
RECEPTACLE LOAD	25020 VA	69.98%	17510 VA	**Total Conn. Load:**	28302 VA
				Total Est. Demand:	19151 VA
				Total Conn.:	136 A
				Total Est. Demand:	92 A

Notes:
PROCURE AND INSTALL PANEL AS TWO 42-POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 60-POSITION PANEL WITH AHJ APPROVAL.

Branch Panel: AC-B1

Location: CORRIDOR
Supply From: MDP-B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: -

Notes:

CKT	Circuit Description	C (")	Wire Size (PH,NU,G)	BKR	A (VA)		B (VA)		C (VA)		BKR	Wire Size (PH,NU,G)	C (")	Circuit Description	CKT
1	A-128 PTAC-1	3/4	2-#10, 1-#10, 1-#10	30 A/2	2496	2496					30 A/2	2-#10, 1-#10, 1-#10	3/4	A-129 PTAC-1	2
3							2496	2496							4
5	A-130 PTAC-1	3/4	2-#10, 1-#10, 1-#10	30 A/2					2496	2496	30 A/2	2-#10, 1-#10, 1-#10	3/4	A-131 PTAC-1	6
7					2496	2496									8
9	A-148 PTAC-1	3/4	2-#8, 1-#8, 1-#8	30 A/2			2496	2496			30 A/2	2-#8, 1-#8, 1-#8	3/4	A-147 PTAC-1	10
11									2496	2496					12
13	A-146 PTAC-1	3/4	2-#8, 1-#8, 1-#8	30 A/2	2496	2496					30 A/2	2-#10, 1-#10, 1-#10	3/4	A-145 PTAC-1	14
15							2496	2496							16
17	12 PTAC-1	3/4	2-#10, 1-#10, 1-#10	30 A/2					2496	2496	30 A/2	2-#10, 1-#10, 1-#10	3/4	A-SHORT PTAC-1	18
19					2496	2496									20
21	B-132 PTAC-1	3/4	2-#10, 1-#10, 1-#10	30 A/2			2496	2496			30 A/2	2-#10, 1-#10, 1-#10	3/4	A-143 PTAC-1	22
23									2496	2496					24
25	A-142 PTAC-1	3/4	2-#10, 1-#10, 1-#10	30 A/2	2496	2496					30 A/2	2-#10, 1-#10, 1-#10	3/4	B-133 PTAC-1	26
27							2496	2496							28
29	B-134 PTAC-1	3/4	2-#10, 1-#10, 1-#10	30 A/2					2496	2496	30 A/2	2-#8, 1-#8, 1-#8	3/4	A-141 PTAC-1	30
31					2496	2496									32
33	A-140 PTAC-1	3/4	2-#8, 1-#8, 1-#8	20 A/2			2496	2496			30 A/2	2-#10, 1-#10, 1-#10	3/4	B-135 PTAC-1	34
35									2496	2496					36
37	B-136 PTAC-1	3/4	2-#8, 1-#8, 1-#8	30 A/2	2496	2496					30 A/2	2-#8, 1-#8, 1-#8	3/4	B-137 PTAC-1	38
39							2496	2496							40
41	25 PTAC-1	1	2-#6, 1-#6, 1-#6	30 A/2					2496	2496	30 A/2	2-#8, 1-#8, 1-#8	3/4	A-ADA 139 PTAC-1	42
43					2496	2496									44
45	SPARE	--	--	--			0	--			--	--	--	SPACE	46
47	SPARE	--	--	--					0	--	--	--	--	SPACE	48
49	SPARE	--	--	--	0	--					--	--	--	SPACE	50
51	SPARE	--	--	--			0	--			--	--	--	SPACE	52
53	SPARE	--	--	--					0	--	--	--	--	SPACE	54
55	SPARE	--	--	--	0	0									56
57	SPARE	--	--	--			0	0			--	--	--	SPD	58
59	SPARE	--	--	--					0	0					60
				Total Load:	39936 VA		34944 VA		34944 VA						
				Total Amps:	333 A		291 A		291 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC LOAD	109824 VA	100.00%	109824 VA		
				Total Conn. Load:	109824 VA
				Total Est. Demand:	109824 VA
				Total Conn.:	305 A
				Total Est. Demand:	305 A

Notes:
PROCURE AND INSTALL PANEL AS TWO 42-POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 60-POSITION PANEL WITH AHJ APPROVAL.

Switchboard: MDP-B

Location: BUILDING B
Supply From: UTILITY TRANSFORMER
Mounting: SURFACE
Enclosure: NEMA 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65KAIC
Mains Type: MCB
Mains Rating: 1200 A
MCB Rating: 1200 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PANEL AC-B1	3	400 A	400 A	109824 VA	
2	PANEL AC-B2	3	400 A	400 A	108888 VA	
3	PANEL B1	2	225 A	200 A	28302 VA	
4	PANEL B2	2	225 A	200 A	30063 VA	
5						
6	SPD	3	30 A	30 A	0 VA	
				Total Conn. Load:	277077 VA	
				Total Amps:	769 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC LOAD	218712 VA	100.00%	218712 VA		
LIGHTING LOAD	7362 VA	50.00%	3681 VA	**Total Conn. Load:**	277077 VA
RECEPTACLE LOAD	51002 VA	59.80%	30501 VA	**Total Est. Demand:**	252894 VA
				Total Conn.:	769 A
				Total Est. Demand:	702 A

Notes:

Branch Panel: B2

Location: CORRIDOR
Supply From: MDP-B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22KA
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: -

Notes:

CKT	Circuit Description	C (")	Wire Size (PH,NU,G)	BKR	A (VA)		B (VA)		BKR	Wire Size (PH,NU,G)	C (")	Circuit Description	CKT
1	A-228 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-228 LIGHTS	2
3	A-229 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-229 LIGHTS	4
5	A-230 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-230 LIGHTS	6
7	A-231 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-231 LIGHTS	8
9	A SHORT RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A SHORT LIGHTS	10
11	B-232 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	B-232 LIGHTS	12
13	B-233 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	B-233 LIGHTS	14
15	B-234 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	B-234 LIGHTS	16
17	B-235 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	B-235 LIGHTS	18
19	B-236 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	B-236 LIGHTS	20
21	B-237 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	B-237 LIGHTS	22
23	A-238 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1			1080	224	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-238 LIGHTS	24
25	A-239 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-239 LIGHTS	26
27	A-240 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-240 LIGHTS	28
29	A-241 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-241 LIGHTS	30
31	A-242 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-242 LIGHTS	32
33	A-243 RECEPTACLE	3/4	1-#8, 1-#8, 1-#8	20 A/1	1440	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-243 LIGHTS	34
35	A-244 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-244 LIGHTS	36
37	A-245 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-245 LIGHTS	38
39	A-246 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1080	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-246 LIGHTS	40
41	A-247 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1	1440	150			20 A/1	1-#10, 1-#10, 1-#10	3/4	A-247 LIGHTS	42
43	A-248 RECEPTACLE	3/4	1-#10, 1-#10, 1-#10	20 A/1			1440	150	20 A/1	1-#10, 1-#10, 1-#10	3/4	A-248 LIGHTS	44
45	RECEPTACLE CORRIDOR	3/4	1-#10, 1-#10, 1-#10	20 A/1	1080	162			20 A/1	1-#10, 1-#10, 1-#10	3/4	GWH 2 (GAS)+RCP2	46
47	EXTERIOR LIGHTS FL 1	3/4	1-#10, 1-#10, 1-#10	20 A/1			294	313	20 A/1	1-#10, 1-#10, 1-#10	3/4	EXTERIOR LIGHTS FL 2	48
49	SPARE	--	--	--	0	0			--	--	--	SPARE	50
51	SPARE	--	--	--			0	0	--	--	--	SPARE	52
53	SPARE	--	--	--	0	0			--	--	--	SPARE	54
55	SPARE	--	--	--			0	0	--	--	--	SPARE	56
57	SPARE	--	--	--	0	0			--	--	--	SPD	58
59	SPARE	--	--	--			0	0					60
				Total Load:	15492 VA		14570 VA						
				Total Amps:	148 A		140 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING LOAD	4080 VA	50.00%	2040 VA		
RECEPTACLE LOAD	25982 VA	69.24%	17991 VA	**Total Conn. Load:**	30063 VA
				Total Est. Demand:	20031 VA
				Total Conn.:	145 A
				Total Est. Demand:	96 A

Notes:
PROCURE AND INSTALL PANEL AS TWO 42-POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 60-POSITION PANEL WITH AHJ APPROVAL.

Branch Panel: AC-B2

Location: CORRIDOR
Supply From: MDP-B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KA
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: -

Notes:

CKT	Circuit Description	C (")	Wire Size (PH,NU,G)	BKR	A (VA)		B (VA)		C (VA)		BKR	Wire Size (PH,NU,G)	C (")	Circuit Description	CKT
1	A-228 PTAC-1	3/4	2-#3, 1-#3, 1-#3	30 A/2	2496	2496					30 A/2	2-#3, 1-#3, 1-#3	3/4	A-229 PTAC-1	2
3							2496	2496							4
5	A-230 PTAC-1	3/4	2-#3, 1-#3, 1-#3	30 A/2					2496	2496	30 A/2	2-#4, 1-#4, 1-#4	3/4	A-231 PTAC-1	6
7					2496	2496									8
9	A SHORT PTAC-1	3/4	2-#4, 1-#4, 1-#4	30 A/2			2496	2496			30 A/2	2-#4, 1-#4, 1-#4	3/4	B-232 PTAC-1	10
11									2496	2496					12
13	B-233 PTAC-1	3/4	2-#4, 1-#4, 1-#4	30 A/2	2496	2496					30 A/2	2-#4, 1-#4, 1-#4	3/4	B-234 PTAC-1	14
15							2496	2496							16
17	B-235 PTAC-1	3/4	2-#4, 1-#4, 1-#4	30 A/2					2496	2028	30 A/2	2-#6, 1-#6, 1-#6	3/4	B-236 PTAC-1	18
19					2496	2028									20
21	B-237 PTAC-1	3/4	2-#4, 1-#4, 1-#4	30 A/2			2496	2496			30 A/2	2-#4, 1-#4, 1-#4	3/4	A-238 PTAC-1	22
23									2496	2496					24
25	A-239 PTAC-1	3/4	2-#4, 1-#4, 1-#4	30 A/2	2496	2496					30 A/2	2-#4, 1-#4, 1-#4	3/4	A-240 PTAC-1	26
27							2496	2496							28
29	A-241 PTAC-1	3/4	2-#4, 1-#4, 1-#4	30 A/2					2496	2496	30 A/2	2-#4, 1-#4, 1-#4	3/4	A-242 PTAC-1	30
31					2496	2496									32
33	A-243 PTAC-1	3/4	2-#4, 1-#4, 1-#4	30 A/2			2496	2496			30 A/2	2-#3, 1-#3, 1-#3	3/4	A-244 PTAC-1	34
35									2496	2496					36
37	A-245 PTAC-1	3/4	2-#3, 1-#3, 1-#3	30 A/2	2496	2496					30 A/2	2-#3, 1-#3, 1-#3	3/4	A-246 PTAC-1	38
39							2496	2496							40
41	A-247 PTAC-1	1	2-#3, 1-#3, 1-#3	30 A/2					2496	2496	30 A/2	2-#3, 1-#3, 1-#3	3/4	A-248 PTAC-1	42
43					2496	2496									44
45	SPARE	--	--	--			0	--			--	--	--	SPACE	46
47	SPARE	--	--	--					0	--	--	--	--	SPACE	48
49	SPARE	--	--	--	0	--					--	--	--	SPACE	50
51	SPARE	--	--	--			0	--			--	--	--	SPACE	52
53	SPARE	--	--	--					0	--	--	--	--	SPACE	54
55	SPARE	--	--	--	0	0									56
57	SPARE	--	--	--			0	0			--	--	--	SPD	58
59	SPARE	--	--	--					0	0					60
				Total Load:	39468 VA		34944 VA		34476 VA						
				Total Amps:	330 A		292 A		287 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC LOAD	108888 VA	100.00%	108888 VA		
				Total Conn. Load:	108888 VA
				Total Est. Demand:	108888 VA
				Total Conn.:	302 A
				Total Est. Demand:	302 A

Notes:
PROCURE AND INSTALL PANEL AS TWO 42-POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 60-POSITION PANEL WITH AHJ APPROVAL.

ISP INTERNATIONAL SERVICE PARTNERS, LLC
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ORMOND BEACH, FL 32176
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COA #6797

ARCHITECTURAL DESIGN + ASSOCIATES INC.
AA26001959
801 S. Yonge St. Suite 4
Ormond Beach FL 32174
Ph: 386-676-2686

LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

PANEL SCHEDULES

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 07:34:40 -04'00'

E-SIGN

MITESH K. SMART LICENSE No.52772 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 110.8.4.4 FBC-B AND CHAPTER 633, FLORIDA STATUES.

REV#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

E-602

CONSTRUCTION DOCUMENTS

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WDGE2 LED
Architectural Wall Sconce
Precision Refractive Optic



Buy American

Catalog Number

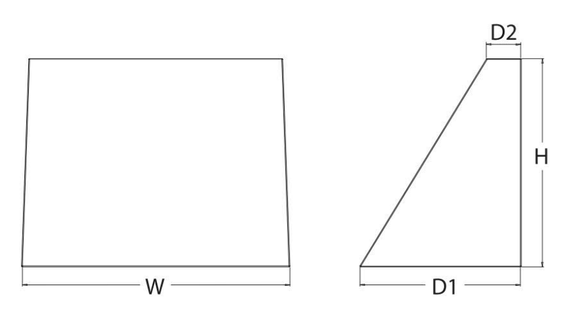
Notes

Type: TYPE E

Introduction
The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

Specifications
Depth (D1):	7"
Depth (D2):	1.5"
Height:	9"
Width:	11.5"
Weight: (without options)	13.5 lbs



WDGE LED Family Overview
Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	P0	P1	P2	P3	P4	P5	P6
					Approximate Lumens (4000K, 80CRI)						
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information
EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P0[1] P1[2] P2[2] P3[2] P4[2]	27K 2700K; 30K 3000K; 40K 4000K; 50K 5000K; AMB[3] Amber	70CRI[4]; 80CRI; LW[5] Limited Wavelength	T1S Type I Short; T2M Type II Medium; T3M Type III Medium; T4M Type IV Medium; TFTM Forward Throw Medium	MVOLT; 347[5]; 480[5]	Shipped included: SRM Surface mounting bracket; ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[6]. Shipped separately: AWS 3/8inch Architectural wall spacer; PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options
- E10WH Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)
- E20WC Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)
- PE[7] Photocell, Button Type
- DMG[8] 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
- BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.
- BAA Buy America(n) Act Compliant

Standalone Sensors/Controls
- PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
- PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
- PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
- PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls
- NLTAIR2 PIR nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.
- NLTAIR2 PIRH nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.

See page 4 for out of box functionality

Finish
- DDBXD Dark bronze
- DBLXD Black
- DNAXD Natural aluminum
- DWHXD White
- DSSXD Sandstone
- DDBTXD Textured dark bronze
- DBLBXD Textured black
- DNATXD Textured natural aluminum
- DWHGXD Textured white
- DSSTXD Textured sandstone

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CS CONTRACTOR SELECT™ — LITHONIA LIGHTING

Catalog Number

Notes

Type: TYPE D

Contractor Select™
FMML 13
FMML 7
Versi Lite™ LED Flush Mount



Available in 7" and 13" round, the LED Versi Lite Flush Mount offers an energy-efficient lighting solution for an array of indoor and outdoor residential and light commercial spaces. With a 50,000 hour maintenance-free life, the Versi Lite delivers reliability along with bright, high quality illumination. Ideal for use in closets, foyers, hallways, bedrooms, offices, utility work areas, stairways, and many other rooms in the house.

FEATURES:
- Available in 2 color temperatures; 3000K and 4000K
- Dimmable to 10% on most standard triac dimmers

Catalog Number	UPC	Description	Replaces up to	Lumens	Input Watts	CCT	CRI	Voltage	Pallet qty.
FMML 13 840	888791432954	13" Versi Lite	2-75W Incandescent	2,000	28W	4000K	80	120V	120
FMML 7 830 M6	820476182860	7" Versi Lite	60W Incandescent	642	10W	3000K	80	120V	540

More configurations are available. Click here or visit www.acuitybrands.com and search for FMML 13 & FMML 7

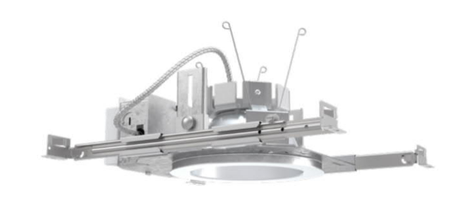
LITHONIA LIGHTING®

Catalog Number

Notes

Type: TYPE C

LDN6
6" Open and WallWash LED
Non-IC
New Construction Downlight



FEATURES & SPECIFICATIONS
INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination ½"-3/4" and four ½" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN6 35/15 LO6AR LSS MVOLT EZ10

Series	Color temperature	Lumens[1]	Aperture/Trim Color	Finish	Voltage
LDN6 6" round	27/ 2700K; 30/ 3000K; 35/ 3500K; 40/ 4000K; 50/ 5000K	05 500 lumens; 07 750 lumens; 10 1000 lumens; 15 1500 lumens; 20 2000 lumens; 25 2500 lumens; 30 3000 lumens; 40 4000 lumens; 50 5000 lumens	LO6 Downlight; LW6 Wallwash; AR Clear; WR[2] White; BR[2] Black	LSS Semi-specular; LD Matte diffuse; LS Specular	MVOLT Multi-volt; 120 120V; 277 277V; 347[3] 347V

Driver
- GZ10 0-10V driver dims to 10%
- GZ1 0-10V driver dims to 1%
- D10 Minimum dimming 10% driver for use with JOT
- D1 Minimum dimming 1% driver for use with JOT
- EZ10 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%
- EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%
- EDAB eldoLED DALI SOLDRIVE dim to dark

Options
- SF[4] Single fuse
- TRW[5] White painted flange
- TRBL[5] Black painted flange
- EL[6] Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
- ELR[6] Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
- ELSD[6] Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
- ELRSD[6] Emergency battery pack with self-diagnostics, remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
- E10WCP[6] Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB
- E10WCPR[6] Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDB
- NPP16D[7] nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).
- NPP16DER[7] nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.
- N80[8] nLight™ Lumen Compensation
- JOT[15] Wireless room control with "Just One Touch" pairing
- NPS80EZ[7] nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).
- NPS80EZER[7] nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.
- HAO[11] High ambient option
- CP[12] Chicago Plenum
- RRL__ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only in RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for the RELOC product specifications.
- NLTAIR2[9,10] nLight® Air enabled
- NLTAIRER2[9,10] nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options
- NLTAIREM2[9,10] nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. Available with battery pack options.
- BAA Buy America(n) Act Compliant
- 90CRI High CRI (90+)

Accessories: Order as separate catalog number.
- PS1055CP FMC Power Sentry batterypack, T20 compliant, field installable, 10w constant power
- EAC ISSM 375 Compact interruptible emergency AC power system
- EAC ISSM 125 Compact interruptible emergency AC power system
- GRA68 JZ Oversized trim ring with 8" outside diameter
- SCA6 Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D

Notes
1. Overall height varies based on lumen package; refer to dimensional chart on page 3.
2. Not available with finishes.
3. Not available with emergency options.
4. Must specify voltage 120V or 277V.
5. Available with clear (AR) reflector only.
6. 12.5" of plenum depth or top access required for battery pack maintenance.
7. Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
8. Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.
9. Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
10. NLTAIR2, NLTAIRER2 and NLTAIREM2 not recommended for metal ceiling installations.
11. Fixture height is 6.5" for all lumen packages with HAO.
12. Must specify voltage for 3000lm and above. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack options.
13. Must specify D10 or D1 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installations. Not for use with emergency backup power systems other than battery packs.

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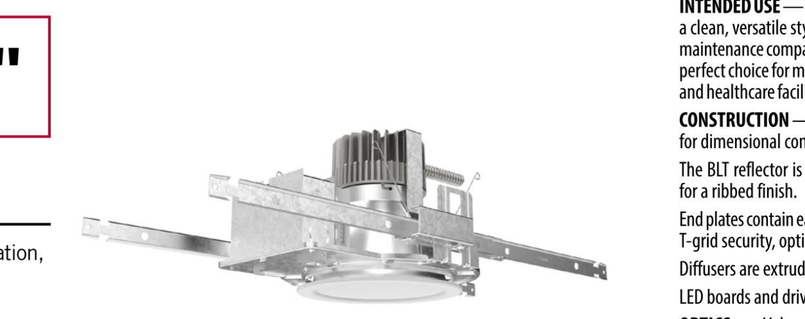
gotham® | EVO® Multiple Layers of Light

Luminaire Type: TYPE B

Catalog Number:

Buy American · 66 IP RATED · NSF

General Illumination Shower Downlight 6"



Feature Set
- Wipe down flush or regressed lens
- NSF2 Splash/Non-food Zone
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- IP66 rated room-side, Fixtures are wet location, covered ceiling
- Anti-microbial paint finish, optional
- Non-conductive dead-front trim
- Suitable for steam room application

Distribution

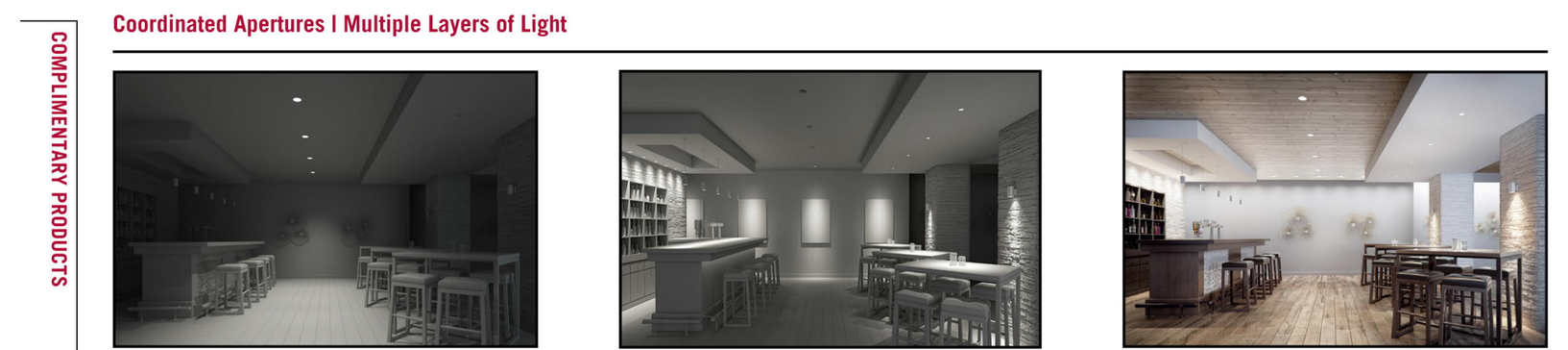
medium wide 1.0 S/MH

Superior Performance (Flush, Clear Lens)

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000
Delivered	219	437	656	857	1274	1729	2187	2624	3062	3499
Wattage	3.4	6.2	8.2	9.6	14.7	19.7	24.7	29.5	33.8	39.0
Efficacy	64.4	70.5	80.0	89.3	86.7	87.8	88.5	88.9	90.6	89.7

*Lumen output for 80CRI - 3500K

Coordinated Apertures I Multiple Layers of Light



General Illumination Layer I EVO · High Center Beam Layer I Incito · EVO + Incito — Multiple Layers of Light

- Core: Downlight, Adjustable, Open Wallwash, Lensed Wallwash, Cylinder, Pinhole, Bevel, Hyperbolic
- Healthcare: MRI, Surgical Suite, Patient Room
- Special Applications: Dynamic, Food Service, Vandal/Tamper, Clean Room, Shower, Steam Room

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LITHONIA LIGHTING®

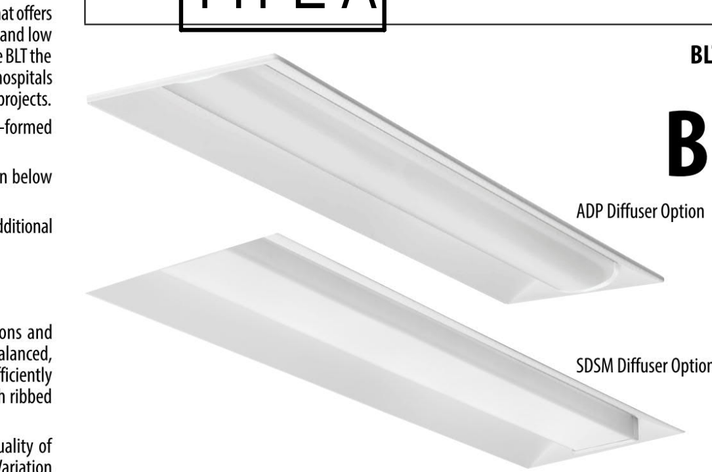
DIGITAL NAVIGATION: Ordering Tree · nLight Platform · Sensor Switch JOT · Photometrics · Performance Data

Catalog Number

Notes

Type: TYPE A

BLT4
BLT Series LED
1' x 4' LED



ADP Diffuser Option · SDSM Diffuser Option

FEATURES & SPECIFICATIONS
INTENDED USE — The BLT Best-in-Value Low Profile LED luminaire features a popular center basket design that offers a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities. The low profile BLT design (2-3/4") also makes it an excellent choice for renovation projects.

CONSTRUCTION — Prior to fabrication, BLT components are coated with a proprietary paint blend and die-formed for dimensional consistency.

The BLT reflector is available in both smooth and ribbed finishes. Choose RB from the fixture style section below for a ribbed finish.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability.

LED boards and drivers are accessible from the plenum.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Four diffuser choices available - curved and square designs with ribbed or a smooth frosted finish.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Color Variation within 3-step MacAdam ellipse (3SDCM).

Non-Configurable BLT: Generic 0-10 volt dimming driver. Dims to 10%

Configurable BLT: available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information below.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable - allowing them to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless RIO, RES7 sensors, or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. nLight AIR is commissioned easily through an intuitive mobile app.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

SENSOR — Integrated sensor (individual control): Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPDT7ADCX ((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 4 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

Integrated Smart Sensor (nLight Air Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY+, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

Integrated Wireless Sensor (single room control): Sensor Switch VERTEX JOT or JOTVTX15 luminaire-embedded occupancy and ambient light sensor allows the luminaire to power off when the space is unoccupied or when enough ambient light is entering the space. See page X for more details on the integrated wireless sensor.

INSTALLATION — The BLT's low profile design of only 2-3/4" provides increased installation flexibility especially in restrictive plenum applications. Designed for use in NEMA standard Type G (1" & 15/16"), NFG (9/16"), and SS (9/16") grid ceilings. Consult factory about other ceiling types.

For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section. Suitable for damp location.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated. Tested in accordance with ISO 14644-1; suitable for ISO Class 5-9 positive and negative pressure clean rooms.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

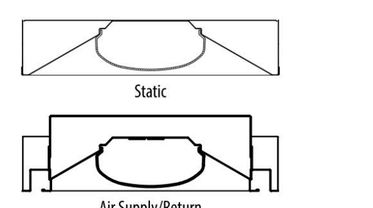
BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Specifications
- Length: 47-3/4 (121.2)
- Width: 11-3/4 (29.8)
- Depth: 2-3/4 (6.9)
- Depth with Air supply/return: 3-5/8 (9.2)

All dimensions are inches (centimeters) unless otherwise specified.



Static · Air Supply/Return

Embed nLight controls today. Prepare for tomorrow.

Now	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	Future-ready

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details.

LITHONIA LIGHTING®

Catalog Number

Notes

Type: TYPE EM

Lithonia Lighting Basics™ LED Emergency Light
EU2C
LED Lamps



FEATURES & SPECIFICATIONS
INTENDED USE

Suitable for emergency lighting applications such as stairways and hallways.

Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION

Injection-molded, flame-retardant, high-impact, thermoplastic housing with snap-fit design components with LED lamps for easy installation. Universal J-box pattern (j-box not included). Track and swivel arrangement permits full range of lamp adjustment.

OPTICS

The typical life of the LED is 10 years. Two 1W LED lamps for emergency light.

Optional high-output battery to power both local and optional LED remote lamp heads simultaneously. The HO option provides additional 3W of LED remote capacity (up to 2 LED remote heads).

CCT: 5000K - 9000K

ELECTRICAL

Dual voltage input capability (120V/277V, 60hz) or MVOLT (120-277, 50/60Hz) standard. Optional 120/347V, 60hz meets Canadian standards. Emergency unit provided with test switch, status indicator and rechargeable battery. Battery: Maintenance-free nickel-cadmium battery provides 90 minutes of emergency power.

Self-diagnostics: Performs monthly 30 second, bi-monthly 30 minute and annual 90 minute testing with multi-status diagnostic functions.

INSTALLATION

Wall mount only (not suitable for ceiling mount).

LISTINGS

UL Listed. Meets UL 924, NFPA 101 (current Life Safety Code), NFPA 70-NEC, California Energy Commission Title 20 section 1605.3 (W)(4), FCC Title 47, Part 15, Subpart B and OSHA illumination standards. Indoor damp location 50°F to 104°F (10°C to 40°C) listed standard. CSA certified to Canadian C22.2 No. 141.15 standards.

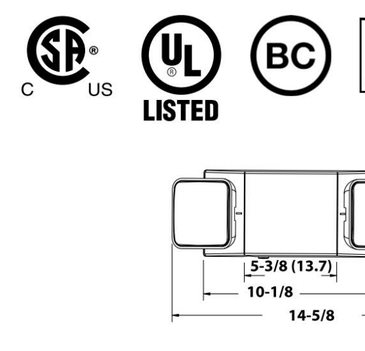
WARRANTY

2-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.



Weight (shipping): 1.7 lbs. (0.77 kgs.)

All dimensions are inches (centimeters) unless otherwise indicated.

CS CONTRACTOR SELECT™ — LITHONIA LIGHTING

Specifications
INTENDED USE:

Provides general illumination in commercial and residential applications. Ideal for use in closets, foyers, hallways, corridors, bedrooms, offices, utility work areas, outdoor covered areas, stairways and much more. Suitable for use within closet storage spaces when installed per NEC requirements.

CONSTRUCTION:

This contemporary shaped fixture features a matte white acrylic diffuser on the round versions, a polycarbonate diffuser on the square versions, and a robust aluminum housing.

OPTICS:

Produces the following lumens at 50,000 hours life (WH finish):
3000 K: 642 lumens (7"); 1898 lumens (13")
4000 K: 1985 lumens (13")

ELECTRICAL:

Fixture operates at 120 volts, 60 Hz. 7" Round standard input = 9.3 watts, 70 lumens per watt. 13" Round standard input = 28 watts, 71 lumens per watt. 7". Works with most standard incandescent dimmers.

LISTINGS:

All sizes are CSA certified for sale in the USA and Canada. Also certified for Damp Location. ENERGY STAR® certified. Round Versi U.S. Patent No. D691,763

WARRANTY:

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Dimensions
7": Height: 1-3/4 (4.4); Width: 7-1/4 (18.4); Weight: 1.1lbs (.5 kg)

13": Height: 2-1/2 (6.4); Width: 13 (33.0); Weight: 3.2lbs

All dimensions are inches (centimeters) unless otherwise indicated.

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CS CONTRACTOR SELECT™ — LITHONIA LIGHTING

Catalog Number

Notes

Type: TYPE X

Contractor Select™
ECRG
Lithonia Lighting Basics™ Emergency Light/Exit Combo



The Lithonia Lighting® ECRG, is a combination of exit and emergency lighting. The ECRG is ideal for safely illuminating the path of egress above-the-door in small spaces at lower mounting heights while providing 90 minutes of emergency power. Available in red and green letters.

FEATURES:
- Internal toggle switch for red or green exit
- Test switch and status indicator
- UL indoor damp location 50°F to 104°F (10°C to 40°C) listed standard
- ECRG RD: multi-voltage 120-277V, 50/60Hz
- ECRG SQ: dual-voltage 120/277, 60Hz

† Exit Signs Certified in the CA Title 20 Appliance Efficiency Database.

Catalog Number	UPC	Description	Supply Voltage	Input Wattage 120	Input Wattage 277	Input Amps 120	Input Amps 277	Pallet Qty	Carton Qty
ECRG RD M6	00194994900412	Red/Green LED Exit/Unit Combo, Round Lamp Heads	120-277V	2W	2W	.03	.02	360	6
ECRG HO RD M6	00194994900429	Red/Green LED Exit/Unit Combo with remote capacity, Round Lamp Heads	120-277V	2.8W	2.8W	.05	.03	360	6
ECRG SQ M6	00194994900467	Red/Green LED Exit/Unit Combo, Square Lamp Heads	120/277V	3.5W	3.5W	.03	.02	360	6
ECRG HO SQ M6	00194994900504	Red/Green LED Exit/Unit Combo with remote capacity, Square Lamp Heads	120/277	4W	4W	.03	.02	360	6

Battery Capacity and Loading (HO only)

Battery	Total Capacity	Maximum# Remote Lamp Heads*
3.6V	2W (ECRG RD)	2 - ERE W SGL RD M24
		1 - ERE W T RD M24
		2 - ERE GY SGL WP RD M12
		1 - ERE GY T WP RD M12
	3W (ECRG SQ)	3 - ERE GY SGL WP SQ M12
		1 - ERE GY T WP SQ M12

* Remotes are in addition to the lamp heads on the product.

Accessories: Order as separate catalog number.
- ERE W SGL RD Single, LED indoor remote head, round, ivory white, .75W, 3.6V input. See spec sheet ERE.[1]
- ERE W T RD Twin, LED indoor remote head, round, ivory white, 1.5W, 3.6V input. See spec sheet ERE.[1]
- ERE GY SGL WP RD Single, LED weather-proof head, round, gray, 0.75W, 3.6V input. See spec sheet ERE.[1]
- ERE GY T WP RD Twin, LED weather-proof head, round, gray, 1.5W, 3.6V input. See spec sheet ERE.[1]
- ERE GY SGL WP SQ Single, LED weather-proof remote head, square, gray, 1W, 3.6V-12V voltage sensing. See spec sheet ERE.[1]
- ERE GY T WP SQ Twin, weather-proof, remote head, square, gray, 2W, 3.6V-12V voltage sensing. See spec sheet ERE.[1]
- ELA WG3 Wireguard, 30 5/8"W x 13 3/4"H x 6"D. See spec sheet ELA-WG.
- ELA WG2M Wireguard, 21-1/4" W x 15" H x 12" D. See spec sheet ELA-WG.

1 Only available with HO option.

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gotham® | EVO®

6" General Illumination Shower Downlight

Luminaire Type:

Catalog Number:

A+ Capable options indicated by this color background.

EXAMPLE: EVO6SH 35/20 DFF SOL MVOLT EZ10

Series	Color Temperature	Nominal Lumen Values	Lens Setting	Lens	Voltage
EVO6SH	27/ 2700 K; 30/ 3000 K; 35/ 3500 K; 40/ 4000 K; 50/ 5000 K	02 250 lumens; 05 500 lumens; 07 750 lumens; 10 1000 lumens; 15 1500 lumens; 20 2000 lumens; 25 2500 lumens; 30 3000 lumens; 35 3500 lumens; 40 4000 lumens; 45 4500 lumens	DFR Regressed lensed white painted trim; DFF Flush lensed white painted trim; DFRBR Regressed lensed black painted trim; DFFBR Flush lensed black painted trim; DFRAMF Regressed lensed trim with anti-microbial finish; DFFAMF Flush lensed trim with anti-microbial finish	SOL Textured Lens; SMO Smooth Clear Lens	MVOLT; 120; 277

Driver[1]
- EZ10 eldoLED 0-10V ECOdrive. Linear dimming to 10% min.
- EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.
- EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.
- EDAB eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.

Control Interface
- NLT[2] nLight dimming pack controls
- NLTER[2,3] nLight dimming pack controls emergency circuit

Options
- SF Single fuse. Specify 120V or 277V.
- ELR[4] Emergency battery pack, 10W, with remote test switch.
- E10WCPR[4] Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch
- BGTD Bodine generator transfer device. Specify 120V or 277V.
- 90CRI High CRI (90+).
- CP Chicago Plenum.

ACCESSORIES — order as separate catalog numbers (shipped separately)
- SCA6 Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA8 10D. Refer to TECH-190.
- CTA EVO6 6" Aperture ceiling thickness adapter, for up to 8,000LM (extends mounting frame to accommodate ceiling thickness up to 5").
- CTA4-8 YK 4"-8" Aperture ceiling thickness adapter for use with EDXB or CP up to 8,000LM, or nTune options (extends mounting frame to accommodate ceiling thickness up to 5").
- ISD BC 0-10V wallbox dimmer. Refer to ISD-BC.
- RK2 SDT 347/120 75VA U 347V step-down transformer mounted in box installed by others up to 5000lm
- RK2 SDT 347277120 395VA AD U 347V step down transformer mounted in box installed by others 6000-12,000lm

ORDERING NOTES
1. Refer to TECH-240 for compatible dimmers.
2. Specify voltage.
3. For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
4. Not available with CP option.

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BLT Volumetric Recessed Lighting 1'x4'

DIGITAL NAVIGATION | Home | Ordering | nLight Platform | Sensor Switch JOT | Photometrics | Performance Data

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: BLT4 30L ADP EZ1 LP835

Series	Fixture Style	Air function	Lumens	Diffuser	Voltage	Driver	Color temperature
BLT4 1x4 BLT	(blank) Smooth Reflector; RB Ribbed Reflector	(blank) Static; A Air supply/return	Standard efficiency (>100 LPW): 15L 1500; 20L 2000; 30L 3000; 40L 4000; 48L 4800; 60L 6000. High efficiency (>130 LPW): 15LHE 1500; 20LHE 2000; 30LHE 3000; 40LHE 4000; 48LHE 4800; 60LHE 6000	ADP Curved, ribbed; ADSM Curved, smooth; SDP Square, ribbed; SDSM Square, smooth. Includes trim rings to match sensored version: ADPT Curved, ribbed; ADSMT Curved, smooth; SDPT Square, ribbed; SDSMT Square, smooth	(blank) MVOLT; 120 120V; 277 277V; 347 347V	EZ1 eldoLED dims to 1% (0-10 volt dimming); GZ1 Dims to 1% (0-10V dimming); GZ10 Dims to 10% (0-10V dimming); SLD Step-level dimming	LP830 82CRI, 3000K; LP835 82CRI, 3500K; LP840 82CRI, 4000K; LP850 82CRI, 5000K; LP930 90CRI, 3000K; LP935 90CRI, 3500K; LP940 90CRI, 4000K; LP950 90CRI, 5000K

nLight Interface
- nLight Wired: (blank) no nLight® interface; N80 nLight with 80% lumen management; N80EMG nLight with 80% lumen management For use with generator supply EM power; N100 nLight without lumen management; N100EMG nLight without lumen management For use with generator supply EM power
- nLight Wireless: (blank) no nLight® interface; NLTAIR2 nLight AIR Generation 2 enabled

Control
- nLight Wired: (blank) No sensor control; NES7 nLight™ nES 7 PIR integral occupancy sensor; NESPDT7 nLight AIR control with PDT dual technology integral occupancy sensor and automatic dimming photocell; NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell; NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell
- nLight Wireless: RES7 nLight AIR control with PIR integral occupancy sensor and automatic dimming photocell; RES7PDT nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell; RIO nLight AIR radio module without sensor; RES7EM nLight AIR PIR integral occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection; RES7PDTEM nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection; RIOEM nLight AIR radio module less sensor, with UL924 Emergency Operation, via power interrupt detection
- Individual Control: MSD7ADCX PIR integral occupancy sensor with automatic dimming control photocell; MSDPDT7ADCX PDT integral occupancy sensor with automatic dimming control photocell; JOT Wireless room control with "Just One Touch" pairing; JOTVTX15 Wireless occupancy sensor with "Just One Touch" pairing

Standy Mode
- NOC NOC Occupancy sensor disabled

Options
- BDP Disconnect Plug
- EL7L 700 lumen battery pack (Noncompliant with CA T20)
- EL14L 1400 lumen battery pack (Noncompliant with CA T20)
- EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (Noncompliant with CA T20)
- E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS
- CP Chicago plenum
- BGTD Bodine Generator Transfer Device
- PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit
- PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
- PWS1846 PWSLV Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge
- PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage wires
- GLR Fast-blowing fuse
- GMF Slow-blowing fuse
- NPLT Narrow pallet
- RRL_ RELOC®-ready luminaire
- LATC Earthquake clip
- DWAM Anti-Microbial paint
- IPSX Gasketed diffuser compartment to meet IPSX rating
- BAA Buy America(n) Act Compliant

NOTE: ‡ indicates option value has ordering restrictions. Please reference the Option Value Ordering Restrictions chart on the next page. Options are sorted alphanumerically.

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5711 EAST HIGHWAY 98, PANAMA CITY, FLORIDA

LIGHTING SPECIFICATIONS

Mitesh Smart — Digitally signed by Mitesh Smart Date: 2023.01.27 07:35:25 -04'00'

E-SIGN

MITESH K. SMART LICENSE No.52772 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH SECTION 110.8.4.4 FBC-B AND CHAPTER 633, FLORIDA STATUES.

REV#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

E-901

CONSTRUCTION DOCUMENTS