3.10 ACCEPTANCE

A. AS A PREREQUISITE TO REQUESTING FINAL INSPECTION, CONTRACTOR SHALL:
   1. TEST AND BALANCE EACH SYSTEM TO ASSURE DESIGN PERFORMANCE AND PROVIDE ARCHITECT AND ENGINEER WITH PRELIMINARY TEST RESULTS.
   2. FURNISH LETTER FROM AUTHORIZED REPRESENTATIVE OF CONTROL MANUFACTURER THAT ALL CONTROLS HAVE BEEN CHECKED FOR OPERATION AND CALIBRATION AND THAT ALL SYSTEMS ARE OPERATING AS INTENDED.

B. ACCEPTANCE WILL BE MADE BY THE ARCHITECT–ENGINEER OR HIS REPRESENTATIVE ON THE BASIS OF TESTS AND INSPECTION OF THE JOB. CONTRACTOR SHALL FURNISH THE NECESSARY MECHANICS TO OPERATE SYSTEMS, MAKE ANY NECESSARY ADJUSTMENTS AND ASSIST WITH THE FINAL INSPECTION.

FIRE SPRINKLER NOTES:

1. A CERTIFIED FIRE SPRINKLER CONTRACTOR SHALL DESIGN AND INSTALL A COMPLETE SPRINKLER SYSTEM IN STRICT CONFORMITY WITH AL LATEST REQUIREMENTS OF THE APPLICABLE BUILDING CODE, THE LOCAL FIRE DEPARTMENT, NFPA 13 AND NFPA 13R – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS. DRAWINGS DO NOT SHOW A COMPLETE SPRINKLER SYSTEM FOR THE BUILDINGS.

2. SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED SUBMIT COMPLETE CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL CONTRACTOR SHALL NOT BEGIN THE INSTALLATION OF THE SPRINKLER SYSTEM UNTIL APPROVAL OF THE SHOP DRAWINGS AND CALCULATIONS HAS BEEN OBTAINED BY THE CONTRACTOR FROM THE OWNER'S FIRE INSURANCE COMPANY, THE AUTHORITY HAVING JURISDICTION, AND THE ENGINEER.

3. CONTRACTOR SHALL CONDUCT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF THEIR HYDRAULIC CALCULATIONS.

4. COORDINATE LOCATION OF SPRINKLER HEADS WITH LIGHT FIXTURES, CEILING DIFFUSERS, GRILLES, AND CEILING GRID. CENTER SPRINKLER HEADS IN TWO DIRECTIONS IN CEILING TILE; PROVIDE PIPING OFFSETS AS REQUIRED.

5. SPRINKLER CONTROL VALVES SHALL BE 175 PSI, UL APPROVED, OS&Y GATE VALVES.

6. CONTROL VALVES MORE THAN 7'–0" ABOVE FLOOR SHALL BE ACCESSIBLE BY MEANS OF A PERMANENT IRON LADDER AS PER NFPA 13.

7. ALL SPRINKLER SYSTEM COMPONENTS AND MATERIALS SHALL BE OF LISTED AND APPROVED TYPE.

8. ALL HANGER COMPONENTS SHALL BE OF LISTED AND APPROVED TYPE.

9. PIPING SHALL BE HUNG FROM STRUCTURAL ELEMENTS. PIPING SHALL NOT BE HUNG FROM DUCTWORK OR FROM BOTTOM CHORD OF JOIST.

10. CONTRACTOR SHALL RUN AND PAY FOR ALL TEST REQUIRED TO ENSURE THAT THE SYSTEM HAS ADEQUATE FLOW AND PRESSURE.

11. CONTRACTOR SHALL FURNISH AS–BUILT DRAWINGS.

12. CONTRACTOR SHALL BE RESPONSIBLE DURING INSTALLATION AND TESTING FOR ANY DAMAGE CAUSED BY LEAKS,

UNITS - GENERAL PLUMBING NOTES:

1. EACH APARTMENT UNIT SHALL HAVE A WATER SHUT–OFF VALVE. PROVIDE 24" OF STRAIGHT HORIZONTAL PIPE BETWEEN SHUT–OFF VALVE AND FIRST TAP. PIPE SHALL ALLOW FOR FUTURE ADDITION OF INDIVIDUAL WATER METER .

2. CONTRACTOR SHALL SUPPLY AND INSTALL ACCEPTED EXPANSION TANK PER MANUFACTURER'S SPECIFICATIONS UP STEAM OF THE WATER HEATER. TANK SHALL BE EQUAL TO STATE MODEL ETC–2X.

3. CONTRACTOR SHALL SUPPLY AND INSTALL 2" DEEP DRAIN PANS FOR ALL WATER HEATERS. ROUTE THE DRAIN LINE TO THE EXTERIOR WHERE POSSIBLE. OTHERWISE, ROUTE THE DRAIN LINE TO THE NEAREST CODE APPROVED DRAIN.

4. INSTALL HEAT TRAPS FOR WATER HEATERS.

5. INSTALL APPROVED VACUUM RELIEF VALVES AT WATER HEATERS INSTALLED ABOVE FLOOR.

6. CONTRACTOR SHALL ROUTE P&T DRAIN LINE TO THE NEAREST CODE APPROVED DRAIN.

7. CLOTHES WASHER CONNECTION BOX EQUAL TO WATER–TITE #4512. PROVIDE PROPER AIR GAP FITTING EQUAL TO WADE #XW–2491X2.

8. ICE MAKER BOX SHALL BE EQUAL TO WATER–TITE #9000–CP. MOUNT IN WALL WITH TAP IN TOP OF BOX TO PREVENT LEAKAGE INTO WALL CAVITY.

9. CONTRACTOR SHALL EXTEND AND HARD CONNECT DISHWASHER DRAIN TO THE GARBAGE DISPOSAL UNIT AT KITCHEN SINK. CONNECT WITH ACCEPTED AIR GAP FITTING.

10. DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE AND INSTALL EACH TUB WITH A MANUFACTURED TUB LINER.

11. CONTRACTOR SHALL SUPPLY AND INSTALL 1/2" TRAP PRIMERS IN ALL FLOOR AND HUB DRAINS AS REQUIRED BY CODE.

12. ALL PLUMBING FIXTURE SHALL BE TRAPPED AND VENTED IN A CODE APPROVED MANNER.

13. INSTALL SHUT–OFF VALVES FOR ALL PLUMBING FIXTURES INCLUDING INTEGRAL STOPS AT TUB/SHOWER FAUCETS.

14. INSTALL HUB DRAINS ABOVE PLATFORMS SO AS TO BE EXPOSED AND READILY ACCESSIBLE.

UNITS - GENERAL MECHANICAL NOTES:

1. RUN REFRIGERANT LINES IN TRUSS OF JOIST SPACE TO CONDENSER UNITS (SEE BUILDING PLAN FOR LOCATION). FIREPROOF ALL PENETRATIONS OF A FIRE–RATED WALL OR CEILING.

2. ALL THERMOSTATS SHALL BE MOUNTED 48" A.F.F.

3. UNDERCUT BEDROOM AND BATHROOM DOORS 3/4" ABOVE CARPET TO HALLWAY FOR RETURN AIR.

4. COORDINATE LOCATION OF UNIT ACCESS PANEL, REGISTERS, AND GRILLES WITH ARCHITECTURAL UNIT PLANS.

5. WALL CAPS SHALL BE LOCATED SO THAT THEY WILL PENETRATE EXTERIOR WALLS AT THE MINIMUM OF 3 FEET FROM ANY OPENING UNLESS OTHERWISE NOTED IN APPROVED PLANS.

6. ALL DUCT DIMENSIONS ARE CLEAR AIR STREAM.

7. ALL EXTERIOR VENT PENETRATIONS SHALL BE AT A UNIFORM HEIGHT UNLESS SPECIFIED OTHERWISE.

8. COORDINATE ALL EXTERIOR VENT PENETRATIONS WITH ARCHITECTURAL FINISHES FOR A UNIFORM APPEARANCE.

9. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF ALL MECHANICAL (PLUMBING AND H.V.A.C) EQUIPMENT WITH ELECTRICAL, ARCHITECTURAL AND STRUCTURAL TRADES ON THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE OPERATIONAL SYSTEMS THAT COMPLY WITH ALL LOCAL CODES AND PRACTICES.

10. ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL PLANS, IF AN ITEM LOCATION IS NOT SHOWN ON THE ARCHITECTURAL PLANS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.

BUILDING MECHANICAL NOTES:

1. MOUNT CONDENSING UNITS SO AS TO ALLOW 30" ON THE SERVICE SIDE OF THE UNIT, 48" CLEAR ABOVE, 6" ON ONE SIDE, 12" ON REMAINING SIDES AND ALLOW 24" BETWEEN UNITS FOR PROPER AIR CIRCULATION OR AS SPECIFIED BY MANUFACTURER.

2. CONTRACTOR TO PROVIDE PERMANENT CONCRETE CONDENSER UNIT PADS FOR CONDENSING UNITS LOCATED ON GRADE UNLESS NOTED OTHERWISE. PADS SHALL EXTEND A MINIMUM OF 6" BEYOND CONDENSING UNITS AND SHALL BE A MINIMUM OF 3" ABOVE FINISHED GRADE. LOCATIONS MAY BE ADJUSTED IN THE FIELD DUE TO SITE CONDITIONS.

3. CONTRACTOR TO PROVIDE VIBRATION ISOLATION CONDENSING UNIT PADS ON ALL ROOF TOP MOUNTED CONDENSING UNITS UNLESS NOTED OTHERWISE.

4. CONTRACTOR SHALL ARRANGE CONDENSING UNITS TO MINIMIZE THE LENGTH REFRIGERANT PIPE RUNS. CONTRACTOR SHALL COORDINATE REFRIGERANT PIPE SIZE WITH CONDENSING UNIT MANUFACTURES FOR INSTALL LENGTH AND INSTALL PER MANUFACTURERS RECOMMENDATIONS AND CODE REQUIREMENTS.

GENERAL NOTES

1. IN THE PREPARATION OF THESE PLANS, THE ENGINEER HAS USED CERTAIN ABBREVIATIONS, CONVENTIONS, AND SYMBOLS, THE MEANING OF WHICH ARE ILLUSTRATED AND EXPLAINED WITHIN THE LEGEND.

2. PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION, AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER FEATURES WILL NOT BE REQUIRED.

3. COORDINATE WITH ALL OTHER TRADES TO ENSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL WORK, ETC.)

4. IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN IN THE CEILING SPACE UNLESS NOTED OR INDICATED OTHERWISE.

5. VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS AND FIELD DIMENSIONS.

6. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

7. ALL RISES AND DROPS IN PIPING AND DUCTWORK MAY NOT NECESSARILY HAVE BEEN SHOWN. CONTRACTOR TO VERIFY.

8. PROVIDE ALL STRUCTURAL MEMBERS, SUPPORT BRACKETS, FLASHING, HARDWARE, ETC. REQUIRED TO INSTALL A COMPLETE SYSTEM.

9. DIFFUSERS AND REGISTER LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURE AND OTHER CEILING DEVICE LOCATIONS. FIELD VERIFY.

10. MOUNT ALL THERMOSTATS AND/OR SENSORS 4 FEET ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.

GENERAL SYMBOLS

	PLAN OR DETAIL NO. SHEET NUMBER
1	KEYED NOTE TO PLAN
1	REVISION NUMBER
N	NORTH ARROW

HVAC CONTROLS SEQUENCE:

1. THE AIR HANDLER SHALL OPERATE DURING OCCUPIED HOURS. THE RESPECTIVE CONDENSING UNIT SHALL CYCLE ON/OFF BY A 7–DAY PROGRAMMABLE THERMOSTAT TO MAINTAIN A ROOM SET POINT (COOLING) 74 °F, (HEATING) 70°F.

2. DURING UNOCCUPIED TIMES, THE AIR HANDLER MAY BE OVERRIDDEN THROUGH THE PROGRAMMABLE THERMOSTAT.

3. THE TWO POSITION MOTORIZED DAMPER IN THE OUTDOOR AIR DUCT SHALL BE ENERGIZED BY THE AIR HANDLER FAN THAT IT SERVES. FAN ENERGIZED, DAMPER SHALL BE OPEN, FAN DE–ENERGIZED, DAMPER SHALL CLOSE. DAMPER SHALL FAIL OPEN.

HVAC CONTROLS SEQUENCE:

1. EACH AIR CONDITIONING SYSTEM SHALL BE CONTROLLED BY A DIGITAL PROGRAMMABLE THERMOSTAT TO MAINTAIN A ROOM SET POINT TO BE SET BY TENANT.

BUILDING PLUMBING NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE UTILITIES WITHIN THE BUILDING AND WITHIN 5'–0" OF THEIR EXTERIOR WALLS.

2. HORIZONTAL DOMESTIC WATER SHALL BE ROUTED THROUGH SPACE IN CEILING ABOVE 2ND FLOOR UNLESS OTHERWISE NOTED.

3. ALL PENETRATIONS OF THE 1–HOUR RATED PLUMBING CHASE SHALL BE PROPERLY FIRESTOPPED.

4. ALL DOMESTIC WATER EXPOSED TO FREEZING CONDITIONS (WITHIN EXTERIOR WALLS, ETC) SHALL HAVE 1" THICK INSULATION.

MECHANICAL SYMBOLS LEGEND

	CEILING SUPPLY DIFFUSER
	CEILING RETURN GRILLE
	CEILING EXHAUST GRILLE
	CEILING EXHAUST FAN
	IN–LINE EXHAUST FAN
DUCT WALL FD	STYLE 'B' FIRE DAMPER STYLE 'CR' FIRE DAMPER FOR ROUND DUCTS
SD	DUCT SMOKE DETECTOR
	RETURN/EXHAUST DUCT TURNING DOWN
	RETURN/EXHAUST DUCT TURNING UP
	SUPPLY DUCT TURNING DOWN
	SUPPLY DUCT TURNING UP
	EXISTING DUCT
	TRANSFER OPENING IN WALL ABOVE CEILING
UC	3/4" UNDERCUT BELOW DOOR
RD	RADIANT DAMPER (RD)
	SIDE WALL SUPPLY GRILLE
	SIDE WALL RETURN GRILLE
A–12x12 200 CFM	AIR DEVICE TYPE AND SIZE AIR FLOW CFM
T	THERMOSTAT
— R —	REFRIGERANT PIPING (LINE SET)
—C—	CONDENSATE DRAIN PIPING
	PIPE TURNING UP
	PIPE TURNING DOWN
M	2 POSITION MOTORIZED DAMPER
	MANUAL VOLUME DAMPER

ABBREVIATIONS

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CD	CONDENSATE DRAIN
CU	CONDENSING UNIT
DB	DRY BULB
DN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EL	ELEVATION
EXH	EXHAUST
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
FB	FILTER BOX
FD	FIRE DAMPER
FLEX	FLEXIBLE
FLR OR FL	FLOOR
FPI	FINS PER INCH
FPM	FEET PER MINUTE
GALV	GALVANIZED
HP	HORSEPOWER
KW	KILOWATT
LBS	POUNDS
MAX	MAXIMUM
MBH	THOUSAND BTU/H
MFR	MANUFACTURER
MIN	MINIMUM
NO.	NUMBER
OA	OUTSIDE AIR
RA	RETURN AIR AND/OR ROOM AIR
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
TEMP	TEMPERATURE
TYP	TYPICAL
UC	UNDERCUT
VD	MANUAL VOLUME DAMPER
V	VOLTS
WB	WET BULB
ø	ROUND
OBD	OPPOSED BLADE DAMPER
SQFT	SQUARE FEET
SQ.IN.	SQUARE INCHES
TAD	TRANSFER AIR DUCT

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ISSUE & REVISION RECORD

#	DATE	DESCRIPTION
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PROJECT

SPRINGS AT FREMAUX TOWN CENTER
SLIDELL, LA

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