

## STATE OF MISSOURI FACILITIES SPECIFICATIONS AND DEFINITIONS

## ATTACHMENT G

SPECIFICATIONS FOR OFFICE SPACEG-1. BUILDING SITE

G-1.1 The premises must not be located in an area designated as a hazardous waste, landfill or designated wetland area and must be served by a Department of Natural Resources approved water site and sewage system. The premises should not be located in an area designated as a 100 year flood plain.

G-1.2 All square footage must be contained in one building; multiple buildings are not acceptable. The required square footage represents the square footage needed to meet the Tenant's operational requirements. Because of structural variations, which may affect floor plan layout, a Bidder may need to utilize more than the required square footage to provide the design flexibility necessary to accommodate the operational needs of the Tenant within the proposed facility. However, the Bidder should bid the required square footage and explain any excess square footage as a variance.

G-1.2.1 All proposals will be evaluated on the required square footage specified above at the proposed rental rate. Proposals offering less than the required square footage will be judged non-responsive and eliminated from consideration. Proposals offering more than the required square footage may be judged non-responsive and eliminated from consideration.

G-2. CODES, STANDARDS AND GENERAL REQUIREMENTS

G-2.1 The premises must, at a minimum, conform to the following codes, standards and general requirements, as well as local model building code, ordinances and requirements in effect at the time the RFP is released. In the event of a conflict the most stringent shall apply.

G-2.1.1 The Bidder/Lessor shall be responsible for providing or securing all certificates, permits, construction, supervision, labor, materials, tools and construction equipment necessary for the execution and completion of the premises in compliance with the specifications, Proposal Form and Prevailing Wages.

G-2.1.2 The premises must meet all building codes according to the latest published edition of International Building Codes.

G-2.1.3 Life safety provisions and exitway arrangements must conform to the latest published edition of the NFPA 101 where applicable.

G-2.1.4 Building construction/finishes should be of commercial grade quality.

G-2.2 Alarms and Fire Extinguishers

G-2.2.1 Where required by code, the premises must be equipped with a fire and/or smoke protective signaling or automatic fire detection system which meets the requirements of the aforementioned codes and all local building codes, fire codes and requirements. All fire and smoke alarm systems must be in accordance with ADAAG, Sections 4.1 and 4.28. All telephone lines installed for fire and emergency reporting must be in compliance with local building codes and fire codes.

G-2.2.2 Fire extinguishers must be furnished and maintained in accordance with National Fire Code #10; a minimum of two five-pound, ABC rated extinguishers must be provided. However, additional fire extinguishers must be provided when the maximum travel distance to any one fire extinguisher location exceeds 75'.

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G-2.2.3 Fire Extinguisher Inspection: All fire extinguishers must be inspected and maintenance performed a minimum of one time per year by trained personnel. All inspection records must be signed and maintained by the inspecting official. A copy of this record should be provided to the Tenant.

G-2.2.4 All fire extinguishers out of service for maintenance or recharge must be replaced by a spare of equal or greater rating.

G-2.3 All plumbing for the exclusive use of the state and guests should meet the latest edition of the International Plumbing Code. All plumbing fixtures should be equipped with individual stops.

G-2.4 All electrical equipment and wiring should meet or exceed the requirements of the latest edition of the National Electrical Code, published by NFPA. All fixtures, receptacles and switches must be Underwriter Laboratory (UL) approved.

G-2.5 All Heating, Ventilating and Air Conditioning (HVAC) systems must conform to the National Fire Protection Association (NFPA) requirements and must be designed in accordance with the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) handbooks and standards. All buildings over 10,000 square feet must meet ASHRAE 90.1 on new construction.

G-2.5.1 In accordance with Section 319.200 - 319.207, RSMo, all buildings must comply with Seismic design and construction, in accordance with IBC or local adopted codes.

G-2.5.2 Public Law 101-336, The Americans with Disabilities Act (ADA), which was signed into law on July 26, 1990, and became effective January 26, 1992, prohibits discrimination against people with disabilities in employment, transportation, public accommodation, communications and activities of state and local government. Therefore, the State of Missouri will only lease premises that fully comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG). For further information concerning specific provisions of ADAAG contact:

President's Committee on Employment of People with Disabilities  
1331 F Street, NW, 3rd Floor  
Washington, D.C. 20004  
Phone: (202) 376-6200

NOTE: The United States Internal Revenue Code contains provisions permitting tax credits/deductions for small businesses that incur renovation expenses related to compliance with the Americans with Disabilities Act. IRS Publication No. 907, providing information on the provisions, may be obtained by calling 1-800-829-3676.

G-2.6 Asbestos: Friable asbestos, as defined in the Environmental Protection Agency (EPA) Pamphlet, Guidance for Controlling Asbestos Containing Materials in Buildings, revised June 1985, and A Building Owner's Guide to Operational and Maintenance Program for Asbestos Containing Materials, revised July 1990, must not be present in the space to be leased or anywhere in the building.

G-2.7 Accessibility

G-2.7.1 The building and premises must be handicapped accessible as defined by ADAAG, enacted by the Federal Government on July 26, 1990, which became effective January 26, 1992.

G-2.7.2 All state leased land, buildings and equipment must be accessible to and usable by clients and employees. All construction and renovation shall conform to specifications set forth by ADAAG.

G-2.7.3 All exits required by code must have adequate means of egress for disabled individuals as defined by ADAAG, Sections 4.1, 4.2, 4.3, 4.4, 4.5 and 4.8. The primary and employees' entrance to the facility must be fully accessible for disabled persons.

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G-2.7.4 The premises must be barrier free, allowing persons (guests and employees) direct access to the office and all activity areas. Accessibility will be furnished in accordance with ADAAG, Sections 4.1, 4.2, 4.3, 4.4 and 4.5.

G-2.8 Water Coolers: All required water coolers must be hi-lo (or equivalent) refrigerated type water cooler(s) of sufficient capacity and must be accessible for disabled persons in accordance with ADAAG, Sections 4.1 and 4.15.

G-2.9 Elevators: A minimum of one commercial type passenger elevator must be provided if the proposed Lease area and/or access to the proposed area is not on a single level. The elevator must be accessible for disabled persons in accordance with ADAAG, Sections 4.1 and 4.10, and ASME A17.1-1990. The elevator must have a telephone available for use in emergency.

### G-2.10 Restrooms

G-2.10.1 Each restroom should have a minimum of one mirror, soap dispenser, towel dispenser, toilet paper dispenser and waste receptacle of commercial quality. A female hygiene product waste receptacle should be installed within all women's privacy partitions. Privacy partitions must be provided when any restroom contains more than one water closet and/or urinal. Restroom signage must comply with ADAAG, Sections 4.1 and 4.30.

G-2.10.2 All restrooms and restroom furnishings must be accessible for disabled persons and individuals in wheelchairs in accordance with Figure 30(a) or Figure 30(a-1) of ADAAG. All restrooms must meet ADAAG, Sections 4.1, 4.16, 4.17, 4.18 and 4.19.

G-2.10.3 Each restroom should be equipped with a floor drain to handle accidental water overflows.

G-2.10.4 Single use restrooms must have privacy, bedroom or bath lock installed on door. (The button automatically releases when the inside lever is turned or the door is closed.)

G-2.10.5 Commercial grade toilets with power flush or flush valve should be provided in all restrooms and urinalysis rooms (UA).

G-2.10.6 The client restroom(s) should have an electrical hand dryer.

G-2.10.7 All toilets must meet the 1,000 grams single flush, as listed in the latest edition (MaP) Maximum Performance Testing of popular toilet models.

### G-2.11 Parking

G-2.11.1 The total number of required parking spaces should be provided per the Attachment A.

G-2.11.2 The parking area(s) should be located on or immediately adjacent to the facility (metro area - within 100 yards of the facility); travel between the parking area and facility must be by a direct, safe and accessible route. The preferred location for disabled parking is adjacent to the main entrance. The access between the public street and the parking area should be of a hard surface, all weather type material. Each space should be a minimum of 9' X 20'. All driving lanes between double parking spaces should be a minimum 25' in width.

G-2.11.3 All accessible parking spaces must be striped and signed in accordance with ADAAG. Appropriate access must be provided from each space to the main entrance in accordance with ADAAG, Sections 4.1, 4.6, 4.7 and 4.8.

G-2.11.4 Accessible spaces must be clearly identified with a sign reflecting the minimum fine of \$50.00 through \$300.00 for parking violations.

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G-2.11.5 Standard parking stalls shall be marked with white paint. Other pavement markings and signage shall comply with MUTCD (Manual of Uniform Traffic Control Devices), as published by the U.S. Department of Transportation, Federal Highway Administration.

### G-2.12 Building Signage

G-2.12.1 Interior signage that identifies permanent rooms and space, i.e. restrooms, conference rooms, lounge, area of refuge, etc., must be provided. All signage must comply with ADAAG, Sections 4.1 and 4.301.

G-2.12.2 Interior and exterior signage must be provided which gives direction to, or information about, operational areas in the facility which provide access for disabled persons and must comply with ADAAG, Sections 4.1 and 4.30.

G-2.12.3 Exterior signage identifying the state agencies will be furnished by the Lessor, if requested. The Lessor should provide space for the sign and install the sign on the front of the facility or an agreed upon location, whichever is more visible. (Ref. G-2.12.2)

### G-2.13 Electrical

G-2.13.1 All exterior, restroom, lounge and coffee bar countertop electrical outlets must be Ground Fault Circuit Interrupter (GFCI) protected.

G-2.13.2 All general power circuits must be wired with a minimum of #12 wire and all electric cable must have copper conductors with a separate ground wire.

G-2.13.3 A minimum of one nominal 120V duplex receptacle must be provided for every 12 lineal feet of wall space, on each of the four walls in a private office and each of the three walls in a semi-private office.

G-2.13.4 All electrical breaker panels should have a minimum of 20% open breaker capacity. (All circuits must be a minimum of 20 amps or greater depending on the intended use for the circuit.)

G-2.13.5 When systems furniture is utilized by the Tenant, the Bidder must provide compatible electrical hook-ups and make the final connection to the systems furniture. Power poles are not acceptable. Electrical feeds to systems furniture must be powered to the equivalent of four 120V duplex receptacles for general power per cubicle.

G-2.13.6 Each workstation location must have one dedicated 120V duplex receptacle with a maximum of six duplexes per circuit, an outlet for general electrical and a data/phone box with 1" conduit. Dedicated circuits must be wired with a neutral and a separate ground, wired to the panel. Additional dedicated circuits must be placed at designated locations to accommodate printers, copy machines, etc. (Ref. E-16)

G-2.13.7 All duplex receptacles should be labeled and numbered. Dedicated duplexes should be marked with a distinctly colored faceplate.

G-2.13.8 The lounge must have a minimum of six dedicated 120V duplex receptacles on two circuits to accommodate vending machines. This is in addition to the general electric. The coffee bar must have a minimum of two dedicated 120V duplex receptacles.

G-2.13.9 The copier room(s) should have two dedicated 120V circuits in addition to the general electric.

### G-2.14 Lighting

G-2.14.1 Lighting design should meet the latest edition of ASHRAE 90.1.

G-2.14.2 Interior Lighting Fixtures should be fluorescent with diffusers. All fixtures should comply with the following specifications: fixtures should contain F32T8/35K lamps with an electronic instant start ballast or

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equivalent; and individual occupancy sensors should be provided to control lighting in all private rooms, with override switches provided.

A minimum of 50 footcandles must be provided in all areas. The interior lighting should be ballast to provide "night lighting" at the entrance and exits. Approximately 5% of the space shall be lighted at night.

G-2.14.3 Emergency and Exit Lighting: Emergency lights must be provided in the office area. Entrances and exitways shall be clearly illuminated by emergency lighting. Emergency lighting must have two energy sources; one being a reliable type of rechargeable batteries. Changeover time between energy sources shall be no more than ten seconds. Exits and exit access, as required, shall be marked by approved illuminated signs readily visible from any direction of access. The light source for the exit signs shall be electroluminescent (EL), light emitting diode (LED), tritium or self luminous. Exit signs shall have an emergency lighting mode. Lessor must inspect emergency and exit lighting systems quarterly. Any malfunctioning equipment shall be immediately repaired or replaced.

G-2.14.4 Outdoor Lighting: All exits and the exterior of the building should be lighted in accordance with the latest edition of ASHRAE 90.1, (reference Table 9.3.2) metal halide lamps may be used for spotlighting signs or other displays. Outdoor lighting should be controlled by means of a photocell that automatically turns off the exterior lighting when daylight is available, or by a timer located where the Tenant can easily access.

G-2.14.5 Parking Lot Lighting: The parking lot should be lighted to maintain a minimum of ½ footcandle per square foot.

### G-2.15 Entrances and Exits

G-2.15.1 All entrances and exits to the facility must be illuminated, lockable, equipped with panic hardware and closers.

G-2.15.2 The main public entrance should be protected with an airlock vestibule with safety glass.

## G-3. INTERIOR CONSTRUCTION REQUIREMENTS

### G-3.1 Doors

G-3.1.1 Exterior Doors must be commercial grade; either solid core, insulated metal or safety glass with a metal frame. All exterior doors must be lockable, equipped with panic hardware, closers and must have weather stripping.

G-3.1.2 Interior Doors should be solid or solid core, metal frame, equipped with doorstops and passage hardware, except where noted otherwise.

G-3.1.3 Door Widths must be a minimum of 36" wide, in accordance with ADAAG, Sections 4.1 and 4.13.

G-3.1.4 Door Hardware must be lever-type or U-shaped, in accordance with ADAAG, Sections 4.1 and 4.13. Hardware should meet or exceed the Schlage Series A.

G-3.1.5 Door Locks must be provided for doors, as noted. All door hardware should meet or exceed Schlage Series A and should be keyed to a grand master, and individual locks as specified in the floor plan. A minimum of two keys should be furnished for each lock set, plus three grand master/master keys.

G-3.1.6 Sidelight windows on Interior Doors should be a minimum of 14" x 20" where specified.

### G-3.2 Windows

G-3.2.1 All exterior windows should be stationary, double glazed with insulating glass. At a minimum, 15% of the exterior linear wall should be windows.

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G-3.2.2 All windows should be equipped with vertical blinds or horizontal mini-blinds.

### G-3.3 Insulation

G-3.3.1 Exterior walls should be insulated to the equivalent of R-19; for example, a 6" batt of fiberglass insulation is equivalent to R-19. Exterior walls must be sealed and draft free.

G-3.3.2 The roof assembly should be insulated to the equivalent of R-30 Roof Insulation, in facilities with suspended ceilings should not be installed directly on ceiling tiles.

G-3.3.3 Sound insulation should be provided in restrooms, lounges, data rooms, conference rooms and mechanical rooms at an STC rating of not less than 45. This includes all side walls and the ceiling above said rooms.

### G-3.4 Ceilings and Walls

G-3.4.1 In all facilities the ceiling assembly should be constructed of commercial grade acoustical panel and grid or one layer of 5/8" TYPE-X sheetrock. Ceiling height should be a minimum of 9' and a maximum of 14' in all areas. All facilities must meet the provisions of the building codes.

G-3.4.2 Mechanical, electrical, file and supply/storage rooms must, at a minimum, meet the latest building codes.

G-3.4.3 Chair rail protection should be provided in all reception area(s), interview room(s), interview booth area(s), hearing room(s), one stop room(s), conference room(s), associated hallways, and circulation spaces. The chair rail shall be 4" - 6" wide and located at 32" to center from finished floor. All wall corners should be protected in the public and general office areas up to a height of 48" from finished floor, with a minimum width of 1-1/4".

### G-3.5 Lounge/Coffee Bar

G-3.5.1 Lounge area should be equipped with a minimum of eight linear feet of 30" in height full top and bottom cabinets on the longest wall. A minimum 18 cubic foot refrigerator that is Energy Star certified, sink, garbage disposal and paper towel dispenser is also required.

G-3.5.2 Coffee bar area should be equipped with a minimum of five linear feet of full top and bottom cabinets, 18 cubic foot refrigerator, a sink, garbage disposal and paper towel dispenser.

### G-3.6 Finishes

G-3.6.1 All paintable surfaces should be painted prior to occupancy. All paint used should be semi-gloss or egg shell latex enamel with a washable and scrub-able finish.

G-3.6.2 Carpet should meet or exceed the following specifications:

Face/Yarn Weight:	28 oz. minimum
Construction:	Tufted with unitary backing that guarantees a 20 lb. tuft bind
Dye Method:	Yarn or solution dyed
Fiber Content:	Branded nylon
Density:	5,500 oz. or greater per cubic yard
Gauge:	Minimum 1/8"
Stitches:	Minimum 8.0 per inch
Warranty:	Minimum 10 year commercial wear
Flammability:	Pass pill test, ASTM D-2859

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Critical Radiant Flux:	Class I; not less than .45 watts ASTM E 648
NBS Smoke Density:	(ASTM E-662), less than 450
Static Control:	S/B AATCC-134, less than 3.5KV
Adhesive for Installation:	Solvent free

Carpet should be approved by the Carpet and Rug Institute's Indoor Air Quality Testing Program. If an existing facility with carpeting is proposed, the carpeting should be replaced. Carpeting should be provided in all areas except for restrooms, lounge, coffee bars, UA rooms, janitorial rooms, storage and lobby areas. These areas should have 1/8" vinyl resilient floor tile or equivalent.

G-3.6.2.1 If the Bidder takes a variance to the carpet specifications and the carpet the Bidder selects wears out, the Bidder will be required to replace the worn carpet at no cost to the state, including the cost to move Tenant furniture and equipment.

G-3.6.3 Finish materials in exitways must conform to ASTM E-84 flame spread rating of 0-25; corridors leading to exitways 26-75; offices and rooms 76-200; occupied basements 26-75 unless direct exit to outside is provided. Application of finishes must conform to code requirement relating to non-combustible backing, furring and fire-stopping.

G-3.6.4 Division of Facilities Management, Design and Construction (FMDC) must be consulted in the selection of all interior colors. Material samples must be submitted to FMDC for approval prior to installation. The sample must be accompanied by manufacturer's product data specifications. At a minimum, samples must be submitted for carpet, vinyl, paint, countertops, wall coverings, and vinyl cove base.

G-3.7 Growth Space: All growth space represents future office space requirements. Growth space should be built out completely as finished space. The type of space (open or private office) is indicated in Attachment A.

G-3.8 Janitorial Closet: The janitor's closet should be equipped with a mop sink with hot and cold water. A minimum of 10 lineal feet of storage shelves should also be provided.

### G-4. HVAC SYSTEM

G-4.1 The HVAC system should meet the latest edition of ASHRAE 90.1.

G-4.2 The HVAC equipment/systems supplied must provide a means for air cleaning/filtering, dehumidifying, tempering and distribution. Air distribution must consist of receiving return air from the conditioned space, mixing it with outside air as required, tempering it and delivering it to the conditioned space. All private rooms should have a return air duct to maintain circulation.

G-4.2.1 The HVAC system must be sized to offset all loads as dictated by intended space usage, internal and external building gains and losses, loads created by infiltration and outside air brought into the building. The system must be sized in occupiable area(s) to comply with the minimum outside air requirements set forth in the latest edition of the ASHRAE Pocket Guide. In addition, the air circulation control system must be designed to maintain an inside temperature of 74 +/- 2°F in all areas of the building when outdoor temperature is between ASHRAE winter and summer design temperatures, i.e. economizer conditions.

G-4.2.2 Since outside air will be introduced into the system, some recirculation air must be exhausted. The system must be capable of exhausting recirculated air to the outside without the possibility of the exhaust air reentering the building immediately after exhaust. When the building is unoccupied the system may close the outside air inlet duct for temperature control of space. All private rooms should have a return air duct to maintain circulation. The Lessor must provide drawings clearly showing all ventilation airflow.

G-4.2.3 The HVAC system must be of a low velocity design with filtered and balanced supply air to each zone. Air leakage in supply and return ducts must be minimal. All ducts must be firmly supported and free of

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vibration. Sufficient balance dampers must be provided to properly balance the system. The air system should be essentially noise-free and meet minimum noise criteria levels per ASHRAE standards.

G-4.2.4 All HVAC systems, heating only, cooling only or heating and cooling, shall be controlled by a minimum of one thermostat. In addition, the environmental control systems must be designed and constructed so that each area within the building that has inherently different heating and cooling requirements can be individually controlled from within that area. For example, a row of south facing full height perimeter offices with windows may comprise one zone and an equally occupied interior space would be another. Special areas, identified as containing computers or other heat generating equipment, conference rooms and kitchens, all have inherently different heating and cooling requirements and therefore should have individual controls or zones.

G-4.2.5 The control system should provide for automatic night setback, having the capability to automatically control the HVAC system fans to run continuously during occupied times and only when heating or cooling is required during unoccupied times. The system should be able to switch from heating/cooling automatically.

G-4.2.6 The HVAC system capacity should be sized to allow for a warm-up (pick-up) cycle from a 10°F temperature set back.

G-4.2.7 Controllers for multi-zone reheat systems (excepting variable air volume) must be designed to satisfy the warmest zone with the highest cold air supply temperatures.

G-4.2.8 The air system controls should provide for an automatic humidity control per ASHRAE Comfort Standard 55, latest edition. Humidistats should be mounted on a wall in an accessible area.

G-4.2.9 Ventilation for the lobby, reception, interview room(s), interview booth(s), public restroom(s) or conference rooms, testing rooms and UA rooms should be on a separate HVAC zone from the rest of the facility and should exhaust a minimum of 150 cfm per room. For reception areas and conference rooms 300 square feet or larger, the exhaust should be sized for .5 cfm X the square feet of the room (e.g. a 400 square foot reception area X .5 = 200 cfm required per room). Ventilation fans should be remotely located.

### G-5. DATA/TELECOMMUNICATIONS REQUIREMENTS

G-5.1 Data/Telecommunications (d/t) Room(s): The Lessor must provide a d/t room(s) to support specific equipment and wiring requirements. The room(s) should be centrally located, free of any electrical panels or water sources (i.e. hot water heaters, mop sinks, etc.) and must have a minimum of one 8' X 4' X 1/2" sheet(s) of plywood mounted on three walls horizontally (with the top edge at 7' and away from the wall 1-1/2") above the required electrical outlets. If the plywood extends beyond the length of one wall, it should be located on an adjacent wall. The mounting of the data equipment racks is the Lessor's responsibility. If a building has multiple data rooms, they must be connected by a minimum 3" raceway pipe to carry backbone and other connecting cable from room to room. The d/t rooms should be located directly above each other on a vertical plane within a multi-story building.

G-5.2 The Lessor must prepare the facility to accommodate the installation of d/t wiring by the Tenant (or contractor of the Tenant) to all workstations. Accessibility for wiring may be attained by utilizing enclosed ceilings, raised data flooring, the equivalent of Walker Duct, columns or systems furniture. Power poles are not acceptable. Additional d/t requirements are described in agency special requirements (Attachment C).

G-5.3 The Lessor must provide a raceway to accommodate service entry by the telephone company from the exterior of the facility to inside the d/t room. The specifications for the raceway should be obtained from the local service provider.

G-5.4 The Lessor must size raceways for a minimum of .18 square inch per workstation in the floor duct or raceway. Any raceway/conduit installed above a Sheetrock ceiling must be extended to be fully accessible. Additional information can be referenced in the Attachment C.



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G-5.5 The Lessor is not responsible for the d/t cable/wire nor the required connector and cover. The Lessor must provide covers for any unused d/t boxes.

G-5.6 Environmental: The d/t equipment room must maintain an operating temperature range of 50° to a maximum of 80° Fahrenheit with a non-condensing, relative humidity of 20% to 70%, maintained 24 hours a day, seven days a week. The equipment in the d/t room will be operational 24 hours a day, seven days a week.

G-5.7 If the total Btu/hour of the controller/modem/data is less than or equal to 9,000 Btu/hour, a properly ventilated d/t room with a minimum of a 400 cfm, 120V exhaust fan controlled by a line/voltage/thermostat should keep the d/t room within the cooling limits specified above.

G-5.8 If the total Btu/hour of the controller/modem/data is greater than 9,000 Btu/hour, the HVAC system must be set up such that the d/t room has its own self-contained unit and is controlled to maintain the appropriate parameters as set forth above.