

Tenant Design Criteria

For

MECHANICAL AND ELECTRICAL WORK

Lehigh Valley
Mall

Whitehall, PA

SIMON PROPERTY GROUP

LEHIGH VALLEY MALL

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This design criteria provides information and lists requirements to be used in the preparation of plans and specifications for Tenant's mechanical and electrical work. Tenant's plans and specifications shall be prepared by and bear the seal of Architects and Engineers licensed by the State of Pennsylvania and shall comply with current code requirements and meet the requirements of all governing agencies exercising jurisdiction.

Tenant's plans and specifications, with calculations and supporting data, shall be submitted for review by the Landlord. Work will not be permitted to commence without plans and specifications having prior review and written acceptance of the Landlord, as well as that of all governing bodies exercising jurisdiction. Landlord's review is solely for conformance to this criteria and Landlord's review shall not be construed to be a guarantee of design or function adequacy.

Tenant shall field verify exact location and size of demised premises, all service characteristics and locations as well as any interference to the installation of Tenant's work. Tenant shall immediately notify Landlord of any discrepancies or interference and shall not commence any work prior to the resolution thereof.

Tenant's work shall be performed by licensed contractors. Tenant shall require any person performing such work to guarantee the work to be free from any and all defects in materials and workmanship for one (1) year from date of beneficial use or acceptance. Tenant shall also require any such person to be responsible for the replacement or repair, without additional charge, of any and all work done, or furnished by or through such person, which shall become defective or inoperable within one (1) year after beneficial use or acceptance. The correction of such work shall include, without additional charge, all expenses and damages in connection with the removal, repair or replacement of any part of the work, which may be damaged or disturbed thereby.

All warranties and guarantees as to materials or workmanship, with respect to Tenant's work, shall be contained in the contract or subcontract which shall be so written that such warranties or guarantees shall insure to the benefit of both Landlord and Tenant, as their respective interests appear, and can be directly enforced by either. Tenant covenants to give Landlord any assignment or other assurances necessary to affect the same.

Tenant's work shall be coordinated with the work being done by Landlord and other Tenants, to such extent that the Tenant's work will not interfere with or cause delay of any other associated construction work or business conduct.

Tenant shall engage the services of licensed Architects, Engineers, and contractors who will work in harmony with each other and those of the Landlord. To this end there shall be no labor dispute, which would interfere with the construction, completion and operation of the Mall.

Tenant agrees to deliver to Landlord a complete release of all liens associated with the Tenant's construction work. Tenant shall provide public liability and property damage insurance, in such amounts as stipulated by Landlord, for all work performed by the Tenant's contractors, subcontractors and/or their suppliers.

Tenant is responsible to procure any and all necessary permits and obtain written approvals from Landlord and all governing agencies exercising jurisdiction including, but not limited to, hot work permit or sprinkler permit.

At the Tenant's expense, and with the Landlord's written approval, any and all existing mechanical, electrical and/or plumbing services, equipment or portion thereof not scheduled for re-use as part of the Tenant's construction, shall be demolished or otherwise safely terminated. A Tenant electing to re-use existing services, equipment or portion thereof is permitted to do so provided that the Tenant's Engineer and/or contractor deems these components acceptable for re-use in the new design. Tenant accepts full responsibility for the operational integrity of any and all existing equipment. The re-use of existing services, equipment or portion thereof does not relieve the Tenant of the responsibility to furnish plans as aforementioned.

Tenant shall install a heating, ventilating and Air-Conditioning (HVAC) system as designed by Tenant's Engineer in strict accordance with the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE), Building Officials and Code Administrators International, Inc. (BOCA), National Fire Protection Association (NFPA) recommended practice and this criteria. Tenant shall submit, for Landlord's review and acceptance, design documents and design load calculations including cooling and electrical tabulation forms prepared and sealed by a registered Professional Engineer.

Landlord's HVAC system is based upon the following parameters:

- 1 Under normal operating conditions, cooling will not be provided during Mall scheduled nonbusiness hours.
- 2 Landlord will provide hot water for heating purposes to Tenant spaces during non-business hours to prevent freezing when necessary. Under normal operating conditions, hot water for heating purposes will not be supplied during Mall scheduled business hours.
- 3 Design Conditions:
 - a) Chilled Water: For summer cooling, chilled water will be available when the outdoor air design condition is 58 °F and greater.
 - b) Cooling Coil: Tenant air handling unit shall be sized for a Chilled Water Supply and Return differential temperature of 18 °F. Chilled water supply temperature is 44 °F nominal, chilled water return temperature shall not exceed 62 °F nominal.
 - c) Heating Hot Water Service:
 1. Maximum hot water supply temperature 160 degrees F.
 2. Heating water available when the outside is 40 degrees F.
 3. Minimum working pressure of all tenant equipment 125 PSIG.

4. Maximum allowable pressure drop through all tenant piping and equipment 18 FT H₂O.
5. Heating hot water quantities to be used on temp drop 40 degrees F.

d) Space Conditions: Business Hours - 76 °F nominal.

4. Tenant HVAC Construction:

- a) Construction: Tenant's HVAC ductwork shall be galvanized sheet steel, black steel, or aluminum. Tenant's toilet exhaust ductwork shall be fabricated from galvanized sheet metal, and all vapor removal ductwork shall be fabricated from stainless steel or black steel in accordance with ASHRAE standards and Sheet Metal and Air-Conditioning contractors National Association, Inc. (SMACNA) manuals. Fiberglass ductwork will not be permitted.
 - b) Air Distribution Devices: Supply and return air distribution devices shall be commercial grade registers or ceiling diffusers and shall have integral manual volume control.
 - c) Flexible ductwork: If used, flexible ductwork shall be equal to "Flexmaster Triple Lock" aluminum insulated ductwork with a maximum length not to exceed six (6) feet.
 - d) Vibration Isolation: Tenant shall install equipment isolators, rated for the application, for any and all air handling equipment.
 - e) Duct Insulation: All supply air ductwork shall be insulated with one (1) inch thickness glass fiber insulation with foil vapor barrier. Internally lined ductwork will not be permitted.
 - f) Penetrations: Penetrations in any partitions having a fire rating of one hour or more must be fire stopped with approved materials and methods to prevent the migration of smoke and to maintain the fire rating of the partition.
 - g) Access Panels: Access panels of suitable size to enable safe entry shall be provided for all fire dampers, air balancing controls, valves, and other equipment if rendered inaccessible by Tenant's construction.
 - h) Water Balancing: Tenant shall engage the services of a certified independent balancing contractor. Tenant's balance report must be witnessed, submitted to and accepted by Landlord before the Premises will be allowed to open for business.
 - i) Fire Dampers: Tenant shall install fire dampers, rated for the assembly penetrated, in accordance with all agencies exercising jurisdiction, such as, but not limited to, outdoor air plenum, supply air ductwork and return air wall penetrations.
 - j) Toilet Exhaust: Tenant shall provide a toilet exhaust fan. Where available, Tenant shall interconnect toilet exhaust fan discharge to the Landlord toilet exhaust duct. Where toilet exhaust duct is not accessible or available the Tenant shall be required to exhaust at the roof level. The Landlord's contractor at the Tenant's expense shall perform roof membrane cutting and flashing. Tenant's contractor must contact Mall management office prior to commencement of work.
5. Hot Work Permit: Tenant's contractor shall be responsible to obtain and secure a Hot Work Permit(s) from the Landlord. A Hot Work Permit is required for any and all open flame welding or cutting such as but not limited to welding, soldering and brazing.

Reference Appendix:

D-1 Typical HVAC Installation

D-2 Typical Tenant Air Handling Unit Installation

D-3 Typical Hood Exhaust Fan - Roof Mounted

D-7 Typical Tenant Air Handling Unit Piping Installation

Vapor removal system shall include, but are not be limited to, the following:

- 1 Hoods and/or canopies
- 2 Duct systems
- 3 Grease removal devices
- 4 Dampers
- 5 Air moving devices
- 6 Auxiliary equipment
- 7 Fire extinguishing equipment

Vapor removal system materials shall be new and designed for the intended application in accordance with engineering data. All vapor removal equipment shall be installed in strict accordance with the manufacturer's recommendations for type and capacity. The installation of energy efficient make-up air systems is encouraged.

Vapor systems shall conform to all applicable laws, codes, ordinances and governing regulations, including, but not limited to, the following:

- 1 National Fire Protection Association (NFPA)
- 2 National Electrical Code (NEC)
- 3 Underwriters Laboratories (UL)
- 4 Building Officials and Code Administrators International, Inc. (BOCA)
- 5 Factory Mutual Fire Insurance Underwriters (FM)
- 6 American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE)

Objectionable Odor Exhaust: Tenant applications such as, but not limited to, food service, hair styling, pet shop, or as otherwise determined by the Landlord, may be required to install vapor removal systems of a capacity not less than 105% of the supply air quantity to the Premises. Tenant shall be responsible for all modifications and improvements to Tenant's vapor removal systems to avoid negatively impacting the Landlord's or other Tenant's HVAC systems.

Hot Work Permit: Tenant's contractor shall be responsible to obtain and secure a Hot Work Permit(s) from Landlord. A Hot Work Permit is required for any and all open flame welding or cutting such as but not limited to welding, soldering and brazing.

Reference Appendix:

D-3 Typical Hood Exhaust Fan - Roof Mounted D-4 Typical Roof Opening Framing and Equipment Supports General Information:

- 1 Landlord's roofing contractor at Tenant expense must perform roof membrane cutting, flashing and cutting roof deck. Tenant's contractor must contact Mall management office prior to commencement of work. All other work, such as, miscellaneous steel, welding must be performed by Tenant's contractor.
- 2 Submittals shall include three (3) installation drawings of structural support steel prepared by a Licensed Engineer and forwarded to the Landlord's Tenant Coordinator prior to work commencement.
- 3 Wood block-type supports set directly on the roof membrane will not be permitted.
- 4 Abandoned equipment located over the Premise must be removed by Tenant. Existing roof curbs not scheduled for re-use by the Tenant shall be removed by Landlord's roofing contractor at Tenant expense.
- 5 Tenant's Engineer shall submit dimensioned sketch of all surrounding existing roof-top equipment for Landlord's review and acceptance.
- 6 Submittals shall include details of roof supports for all exterior piping including a roof plan of proposed routing for Landlord's review and acceptance.
- 7 The top of roof curb must be a minimum of 18" above the existing roof. Refer to Appendix Drawing for requirements on typical roof mounted exhaust fans.
- 8 Hot Work Permit: Tenant's contractor shall be responsible to obtain and secure a Hot Work Permit(s) from Landlord. A Hot Work Permit is required for any and all open flame welding or cutting such as but not limited to welding, soldering and brazing.

Reference Appendix:

D-3 Typical Hood Exhaust Fan - Roof Mounted

D-4 Typical Roof Opening Framing and Equipment Supports

1. Typical water and sewer connections provided by Landlord to the Premise are as follows:

Cold water supply - 3/4" Sanitary stub - 4" Sanitary vent - 3"

If Tenant's requirement(s) exceed the existing connections provided by Landlord, the Tenant's plans shall reflect such modifications for review and approval by Landlord. Any and all such modifications shall be performed by Landlord's contractor at Tenant's expense.

- 1 All saw-cutting of the floor slab shall be by Tenant's contractor, after advance written notification is submitted to Landlord's Engineer for approval.
- 2 Tenant shall furnish and install an electric water heater. Water heater shall be UL listed and approved. The relief valve shall be piped to an open drain.
- 3 Food Preparation Tenants shall provide at least one floor sink with integral sediment bucket in each kitchen and/or food preparation area with accessible cleanouts as required by applicable codes. Cleanouts shall terminate flush with the finished floor or wall. Tenant shall install an accessible cleanout prior to the entry to Landlord's sanitary main within the Premise.
- 4 All waste piping designed and installed for the drainage of grease producing fixtures as defined by the Plumbing Inspector and/or Landlord's Engineer, such as pot sinks, dishwashers and kitchen hood grease drains, shall discharge through an approved, Tenant provided, mechanical grease recovery unit(s) with sediment strainer prior to connection to the Landlord's sanitary system. Tenant must comply with all local codes and Landlord requirements for installation and maintenance of grease recovery units.
- 5 Grease recovery units must be installed within Tenant's Premises and above the finished floor.
- 6 All Tenant applications using chemical processes, such as photo finishing, dental facilities, or as otherwise determined by the Landlord, must pre-treat all wastewater to meet the required standards and regulations before discharge to Landlord's sanitary system.
- 7 All piping systems must be compatible with the type of materials used by Landlord and shall comply with the following requirements:
 - a) Drainage, Vent Pipe and Fittings: Below grade service shall be CPVC Schedule 40 drainage piping and fittings. Above grade service shall be hubless cast iron pipe and fittings. Joints shall be rubber sealing sleeve and stainless steel coupling with stainless steel clamps and bolts as manufactured by Tyler Pipe or equal. Pipe and joining couplings must be produced by the same manufacturer. Copper drain, waste and vent piping is acceptable above Tenant's floor elevation. Plastic pipe will not be permitted above grade.
 - b) Domestic Water Piping: All water piping shall be Type L copper tubes, seamless drawn, hard temper with plain ends compatible with ASTM B-88. Neither type M copper nor any type of plastic pipe will be permitted. Fittings shall be wrought copper with socket ends with lead-free ASTM 95/5 tin-antimony. Tenant's plumbing contractor will be required to certify to Landlord that all equipment and installation is lead-free in compliance with Federal Drinking Water Standards. All valves for domestic water use must be rated at 125-psi test.
 - c) Tenant shall install air chambers or shock absorbers in piping system to prevent noise and damage due to water hammer. Branch piping shall include accessible service valves and shut off valves to all fixtures.
 - d) Tenant shall provide dielectric fittings at all junctions of dissimilar metals.
9. Pipe must be supported securely from hangers as follows:
 - a) Where required, and with Landlord's approval, Tenant's plumbing contractor is responsible to install additional intermediate structural supports for hangers.
 - b) Hangers must not pierce insulation vapor barrier.

- c) Cast iron pipe must be supported at least every five (5) feet and at every joint and fitting. Cast iron pipe branches without support must have hangers installed a maximum of four (4) feet on center.
- d) Non-insulated copper pipe must be installed with either copper or plastic coated steel hangers.

1 Tenant shall furnish and install a water meter including remote readout, of size and type approved by Landlord and the local municipal water authority at a location designated by the Landlord's Engineer and the local municipal water authority.

2 All Tenants are required to install, test and maintain backflow prevention devices in series after the water meter. No bypass is permitted. Tenant applications such as, but not limited to, food service, hair styling, photographic reproduction, pet shop; must install a Watts 009 Series reduced pressure zone (RPZ) backflow pressure device. All other Tenants shall install a Watts 007 Series double check valve assembly.

3 Pipe Insulation:

- a) All hot water piping and piping subject to condensation, including cold water and condensate drain piping, must be insulated.
- b) All insulation shall be fire and smoke hazard rated as tested by procedure ASTM E-84, NFPA 225 and UL 723 and must not exceed a flame spread rating of 25 and smoke developed rating of 50. Glass fiber insulation shall be of the type having a 4.0 pound density and a k-factor of 0.25.
- c) Insulation hangers shall be protected by a section of compressed glass fiber insulation with a metal saddle on the outside of the insulation.
- d) All exposed and concealed insulated piping is to have an all service jacket similar to Owens-Corning Fiberglass ASJ25 with self sealing lap and joint sealing strips.
- e) Pre-molded insulated fittings shall be of the same material and thickness as the pipe insulation. Provide Zeston PVC jackets or equivalent and must not exceed a flame spread rating of 25 and smoke developed rating of 50.
- f) All vapor barriers are to be continuous and completely sealed against moisture penetration.

1 Tenant applications such as, but not limited to, food service, hair styling, pet shop, or as otherwise determined by the Landlord, shall be required to install waterproof floor membrane system(s).

2 Hot Work Permit: Tenant's contractor shall be responsible to obtain and secure a Hot Work Permit(s) from Landlord. A Hot Work Permit is required for any and all open flame welding or cutting such as but not limited to welding, soldering and brazing.

1. General Information:

- a) Tenant's electrical work shall be performed in full compliance with the most recent edition of the National Electrical Code (NEC); State and local codes or ordinances. A Certificate of Inspection, issued by the recognized inspection agency, must be furnished to Landlord upon completion of the work.
- b) The Tenant will be responsible for installing conductors from the Landlord's Main Service. The Tenant's electrical distribution center, including main circuit breaker, shall be coordinated with Tenant's feeder size, panel board, transformer and all other components necessary to meet the electrical requirements of the Premises.
- c) Primary service to the Premise shall be 277/480 volts, 3-phase, 4-wire, plus full size ground, 60 hertz for all Tenants.
- d) Tenant's total connected electrical load shall not exceed twelve (12) watts per square foot of Tenant's leased area. Tenant's Engineer shall complete the attached Electrical Load Tabulation Form ET-1 and submit to Landlord for review. In the event the electric service requirements of the Tenant exceeds the capacity, referenced above, provided by the Landlord, the Tenant shall reimburse the Landlord on demand for any additional expense incurred by the Landlord for providing

increased electric service to the Premises.

- e) The Landlord will not be obligated to provide the Tenant with temporary electric service during the Tenant's construction period. At the determination of the Landlord's Engineer, the Tenant will be responsible to reimburse the Landlord on demand for electrical service, temporary or permanent, supplied from the Landlord's distribution system.

2. Electrical Equipment:

- a) Transformers: Tenant shall furnish and install 277/480 volt, 3-phase, 4-wire to 120/208 volt, 3-phase, 4-wire transformer for secondary distribution loads. Transformers shall be general purpose dry type with Class H insulation, mounted below finished ceiling.
- b) Metering: Tenant shall furnish and install meter base socket. Landlord shall provide electrical meter at Landlord's expense.
- c) Panel boards: Panel boards shall be 277/480 volt and 120/208 volt, 3-phase, with solid neutral. Circuit breakers in 277/480 and 120/208 volt panel boards shall be bolted type. All panel boards shall contain twenty percent (20%) spare circuit breaker capacity. Single pole circuit breakers shall be quick-lag type and 2-pole and 3-pole circuit breakers shall be common trip. Handle ties are not acceptable. Panel board loads shall be balanced. Tenant's contractor shall be responsible for furnishing completed panel board schedule.
- d) Conduit and Conductors: Tenant's electrical materials shall be new and bear the Underwriters Laboratories (UL) label. All wiring shall be in metal raceway. Flexible Metal (FM) conduit with full sized ground may be used in concealed locations where permitted by code. Non-Metallic sheathed cable (Romex) will not be permitted. Wire and cable shall be insulated copper conductors and color coded in accordance with the NEC. Minimum conductor size shall be #12 American Wire Gauge (AWG).
- e) Motor Disconnect Switches: Motor disconnect switches shall be fused or non-fused, standard duty horsepower rated, NEMA type, in enclosure suitable for the application.
- f) Nameplates: Tenant's equipment such as, but not be limited to, main service disconnect, meter (if applicable), distribution panel boards, lighting panel boards, motor starters and roof mounted equipment shall be identified with individual permanent nameplates.
- g) Tenant's electrical installation shall be readily accessible for service and maintenance. All conduits shall be concealed wherever possible. Exposed conduits shall be installed parallel with or at right angles to column lines or beams. Sleeves, cored holes or other method of penetration of Tenant's Premises shall be sealed and fire safe as required.
- h) Supports: Supporting systems for electrical installations such as, but not limited to, hangers, miscellaneous steel, channels and rods shall be fastened to building structural steel, concrete or masonry. Support from other piping systems will not be permitted.

3. Kiosk Electrical Service:

- a) Electrical services to Kiosk locations are typically one (1) 20-amp 120-volt circuit.

2 Telephone Service:

- a) Tenant shall be responsible for contacting the local Telephone Company and for all installation costs including service, conduit, outlets, deposits and associated costs.
- b) Tenant's electrical contractor shall install conduit with pull cord at all concealed locations. Exposed conduits shall be installed parallel with or at right angles to column lines or beams.

Reference Appendix:

D-6 Typical Tenant Electrical Service One Line Diagram

Tenant's sprinkler installation shall conform to the requirements and regulations of all authorities exercising jurisdiction. Sprinkler contractors are required to submit working drawings to Landlord's Insurance Underwriter and to the local agencies exercising jurisdiction for approval prior to work commencement. Submissions shall consist of three (3) sets of blue line drawings.

Tenant shall obtain directly, or through Tenant's contractor, the services of an approved sprinkler contractor for installation of Tenant's sprinkler system.

Tenant's sprinkler installation shall conform to the requirements and regulations of the Landlord's Insurance Underwriters including, but not be limited to, the following:

- 1 The sprinkler system installation, including all appurtenances, shall meet Americans with Disabilities Act (ADA) requirements.
- 2 Where applicable; Tenant shall provide sprinkler protection at rear service corridor door offset from Landlord's sprinkler system main.
- 3 Food Preparation Tenants using open cooking equipment must install self-contained fire suppression system or other approved systems.

Tenant's sprinkler contractor shall be responsible for payment of Landlord's sprinkler system drain-down fee.

Tenant's sprinkler contractor shall connect to the capped or blank flange outlet of the Landlord's sprinkler system. Pressure test(s) must be accomplished in accordance with the criteria established by Landlord's Insurance Underwriters and industry standards and witnessed by Landlord's representative. Tenant's sprinkler contractor must immediately make repairs of any defects in the sprinkler installation.

Tenant shall not be permitted to open for business until the sprinkler system is approved and operational. Fire hoses, cabinets, fire extinguishers and other required equipment within Tenant's Premises shall be installed in accordance with the requirements of the Landlord's Insurance Underwriter and all local agencies exercising jurisdiction.

Tenant shall be responsible to forward one (1) set of approved sprinkler system drawings to the Landlord.

Prior to requesting a shutdown of the Landlord's sprinkler system for connection of or modification to the Tenant's sprinkler system, the Tenant or the Tenant's sprinkler contractor, must obtain written approval from the Landlord's Insurance Underwriter and present same to Landlord.

Hot Work Permit: Tenant's contractor shall be responsible to obtain and secure a Hot Work Permit(s) from Landlord. A Hot Work Permit is required for any and all open flame welding or cutting such as but not limited to welding, soldering and brazing.

Reference Appendix:

D-5 Typical Sprinkler System Details

1. Sequence Of Operation Occupied Mode

The occupied/unoccupied PE switch (PE1) shall close, initiating the occupied mode. The zone terminal user interface (ZTU) shall provide monitoring, troubleshooting, and alarm functions. The system fan and the exhaust (if provided) shall run continuously in this mode. They shall be energized through the fan motor starter (FMS) and the exhaust fan relay (EFR) respectively. Upon fan startup, the outside air damper (MD1) shall remain closed until the return air temperature reaches the set-point (70 degrees, adjustable) of the morning return air warm-up sensor (RAS). At this time the outside air damper (MD1) shall move to a position of minimum ventilation (15%, adjustable). Upon a fall in space temperature at the space sensor (SS) the hot water valve (HV1) shall modulate open to the heating coil. Upon a rise in space temperature the reverse shall occur. The outside and return air dampers shall remain in the minimum ventilation position. Upon a further rise in space temperature above the cooling set-point of the space sensor (SS), either mechanical chilled water cooling or outside air "free" cooling shall be enabled. The decision as to whether to

use mechanical or free cooling shall be decided by the position of the summer/winter PE switch (PE2) being input to the control panel. If chilled water is available, the chilled water valve (CV1) shall modulate open to the coil in order to satisfy the cooling demand. If chilled water is not available, the modulating dampers (MD1) shall modulate open to maintain the mixed air low limit set-point of the mixed air sensor (MAS). When the call for cooling is satisfied, the chilled water valve (CV1) shall return to the bypass position and the modulating dampers (MD1) shall return to the minimum ventilation position.

2. Unoccupied Mode

The occupied/unoccupied PE switch (PE1) shall open, initiating the unoccupied mode. The supply fan shall cycle with the reduced call for heating. The heating shall be set back in this mode and the cooling shall be locked out. The outside air damper (MD1) shall remain fully closed in this mode and the heating valve (HV1) shall be fully open to the coil. The unoccupied mode may be overridden for a pre-programmed period of time by depressing the momentary push-button on the space sensor (SS).

3. Safety Controls

A low limit freezestat (FZ1) set at 35 degrees (adjustable) and mounted downstream of the heating coil shall stop the supply fan, open the 3 way heating valve (HV1) fully to the coil, and alarm the condition through a flashing LED on the zone terminal user interface (ZTU) mounted on the face of the control panel. The freezestat shall be manually reset. An ionization smoke detector (SD1) and a high limit firestat (FR1), set at 125 degrees (adjustable) and manually reset shall stop the supply fan, close the outside air damper (MD1), and alarm the condition on the zone terminal user interface (ZTU) through a flashing LED. This zone terminal alarm shall be self-canceling.

2 General

The control panel shall be located in the area of the Tenant's electrical equipment and shall contain all relays, switching devices and logic panels to accomplish the above sequence. Panel relays shall be of a plug in bayonet type with a red LED to indicate the relay is energized. All components shall be labeled for ease of connection and identification.

Reference Appendix:

D-8 Automatic Temperature Controls System Details