

TECHINICAL CRITERIA

DEPTFORD MALL



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DEPTFORD MALL

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TABLE OF CONTENTS

TECHNICAL CRITERIA

Electric / Water Sub-meter Requirements	t3
Electrical Criteria	t4-t5
General Design/Construction Coordination, Power Source	t4
Communications Services, Lighting Material/Equipment Specifications	t5-t6
Life Safety, Low Voltage Wiring	t6
Mechanical Criteria	t7-t10
General Design/Construction Coordination, HVAC Equipment, Load Calculations, Exhaust Requirements	t7
Exhaust Requirements, Smoke Control, Equipment	t8
Kitchen Exhaust Systems, Roof Penetrations Closeout Requirements	t9 t10
Plumbing Criteria	t11-t12
General Design/Construction Coordination, Water Efficiency	t11-t12
Gas Service, Ventilation	t12
Structural Criteria & Exit Corridors	t13
Structural Criteria, General Requirements, Exit Corridors	t13

ELECTRIC / WATER SUB-METER REQUIREMENTS

As applicable for property, if there is an existing electric or water sub-meter in the Tenant's space, then the Tenant must have the meter recommissioned to ensure proper installation and functionality. Alternatively, the Tenant can choose to install a new meter that meets Macerich's meter specifications. Either option must be performed by a Landlord-approved electrician and verified by Macerich, and will be at the Tenant's sole cost.

METER SPECS

Tenant may install the meter specified by Macerich or the like. Meter must meet the following criteria:

Electric:

- Meters must be revenue grade.
- There must be at least a 6-digit display.
- Meter must be able to read demand (kW) and usage (kWh).
- The meter must capture the electric usage of the entire Tenant space, including HVAC units. If this is not possible, then it must be noted.
- If using a meter with CTs, note if a multiplier is required and what the multiplier is on the face of the meter.

Water:

- Meter must be properly sized for the water flow in the space. Generally this means the size of the meter should match the size of the water line, or the meter can be 1/4" smaller than the line. This means that if there is a 1" water line servicing the space, a properly sized meter would be 3/4" or 1".

Installation Requirements:

- Meters must be installed by a Landlord approved electrician.
- Installation must be verified and approved by the Operations Manager, or a member of the Operations staff, at the property.
- Proof of inspection must be sent to the Energy Management Department (Alaine Marx, alaine.marx@macerich.com) and should include the following:
 - Date of installation or recommissioning
 - Picture of the meter at time of installation or recommissioning.
 - Picture should be clear and should display kWh and kW legibly.
 - Confirmation that the meter covers whole tenant space.
 - Meter make and model
 - Units that the meter reads in

ELECTRICAL CRITERIA

General Design/Construction Coordination

The electrical criteria is provided for the purpose of designing the Tenant's electrical system. This criteria is provided as a guideline for Tenant's Engineer. It is the Tenant's responsibility to verify existing conditions and comply with all applicable codes and standards.

1. Conduit and raceway hangers, clamps, light fixtures, junction boxes, supports, etc. must be fastened to joists and/or beams. Do not attach directly to the slab, roof deck, ductwork, piping or conduit above.
2. Tenant's equipment in the Mall electric room or outside the Tenant's demised premises must be clearly identified with Tenant's name and space number.
3. Provide access panels at all junction box locations and at smoke detectors above the ceiling.
4. All outlet boxes, floor boxes, wire raceways, power/telephone poles, plug-in molding, wiring devices, hanger supports and other items required for a complete distribution must be furnished and installed by Tenant.
5. Furnish and install power to rooftop units, water heater, store fixtures, signage, music systems and any other fixtures or equipment provided by Tenant. All cutting and patching must be provided by Tenant.

Complete Engineered drawings must be submitted to the Landlord's Tenant Coordinator for review and approval. Landlord will review the plans for conformance to basic Mall requirements. The Landlord does not review for electrical design, nor does the Landlord accept responsibility for the Tenant's adherence to governing codes.

The documents to be submitted for Landlord approval must include the following:

1. Complete plans and specifications for all electrical work, including lighting, power and one line riser Diagram. Documents must be signed and sealed by a Licensed Engineer in the state where the Shopping Center is located.
2. Drawings must include panel schedules, load calculations and meter information.
3. Structural drawings must be submitted for all equipment that will be suspended from the steel structure.

Power Source

All work required to connect Tenant to the main power source must be performed by Landlord approved electrician, at Tenant's expense.

Tenant is responsible for feeders to the Tenant space, installation of a dry type transformer, panels and complete distribution throughout the Tenant space.

Landlord will make available the main power source for Tenant's connection. Power source will be 277/480v buss duct, 3 phase and will be available at the nearest buss duct location. Tenants are responsible for installation of the fused buss duct disconnect switch and must pull the feeder wires to the Tenant's demised premises. If service from previous Tenant does not exist, Landlord will provide an empty 2" conduit with pull-string from the Mall buss duct location to the Tenant space. If a larger conduit or service is required, Tenant is responsible for installation of same from the power source to the demised premises.

ELECTRICAL CRITERIA

DEPTFORD MALL

Communications Services

1. Landlord has installed a high-speed fiber infrastructure at the Center for purposes of providing voice and data access throughout the Center. All access for Tenant's voice and data services must be sourced through Landlord's designated provider which is currently Granite Telecommunications or such alternative provider as designated by Landlord. The vendor contact for voice and data services can be found in the Tenant Criteria Package under General Information.
2. For all wiring needs in common electrical rooms, a required vendor must be used to maintain the integrity of the electrical room. The vendor contact for low voltage wiring needs can be found in the Tenant Criteria Package under General Information.

Lighting

Provide a lighting schedule for review in conjunction with a reflected ceiling plan. Lighting must conform to the following guidelines:

1. Display window lighting must be controlled by a time clock and be on during the hours the Shopping Center is open. Display window lighting must be controlled by a time clock and be on during the hours the Shopping Center is open. Display window lighting at the ceiling must be glare-free and at approved levels at the storefront glass line and not hang down below the top of storefront glass. If track lighting is used, it must be recessed so the lamp source is not visible from the mall concourse.
2. Recessed incandescent downlights may be used.
3. Exit, emergency and night lights must be provided throughout, as determined by governing codes.

4. Fluorescent lighting in the sales area must be recessed and must use metal parabolic louver type lenses with a minimum of 9 cell configuration for a standard 2 x 2 fixture. Bare lamp fluorescent or fluorescent fixtures with acrylic prismatic lenses may be used only in concealed areas or stock rooms.
5. Track lighting may be used if the track is painted to match the ceiling color.

Tenant is responsible for lighting system control, including connection to the Building Management system and connection to the Fire Alarm system (1990 addition area only. See exhibit C). All emergency lighting, exit signs, horns and strobes must be provided by Tenant as required by code.

Material/Equipment Specifications

1. Drawings must include complete material specifications, including manufacturer's name and product number and complete schedules of all equipment and fixtures to be installed.
2. All material and equipment must be new and of a commercial grade and must bear Underwriter's labels where such labeling applies.
3. At grade level electrical conduit may be installed at least 4" under the slab and must be in Schedule 40 PVC conduit. But never allowed to be installed in the slab or less than 4" below slab.
4. Floor boxes must be watertight.

ELECTRICAL CRITERIA

DEPTFORD MALL

CONTINUED

5. Pull boxes or junction boxes must be a minimum of 12 gauge galvanized steel. Outlet boxes in walls must be galvanized pressed steel or case metal. Caulk around boxes to eliminate noise transmission. All main and branch feeders and circuitry wiring must be copper. All conductors to have 600 volt insulation type THW, THWN or THHN.
6. All main and branch feeders and circuitry wiring must be copper. All conductors to have 600 volt insulation type THW, THWN or THHN.
7. Convenience receptacles must be specification grade, 120 volt, 20 amps and be grounding type per NEC.
8. Manual or magnetic starters, switches, contractors, relays, time switches, safety devices, dimmers and other controls must be commercial type with heavy duty ratings and must be installed in strict conformance with the manufacturer's recommendation and applicable codes.
9. All wiring of any type must be installed in conduit and according to material/equipment specifications or local codes.
10. All wiring of any type must be installed in conduit or must be armored cable (BX). Armored cable will only be allowed for concealed branch circuit wiring within the demised premises. Exposed and/or open wiring of any kind will not be allowed. Flexible conduits must be used for connections to vibrating equipment.

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If required by code, Tenant must supply and install a complete fire alarm system within the Tenant space at Tenant's expense.

All emergency lighting, exit signs, horns and strobes must be provided by Tenant as required by code.

In the 1990 addition area (see exhibit C), Tenant is required to use the Landlord's designated Fire Alarm Contractor for installation of the necessary smoke detectors and connection to the mall fire alarm system. System must be in compliance with local governing authority.

Low Voltage Wiring

Deptford Township requires a separate low-voltage wiring permit and subsequent low-voltage wiring inspection prior to Certificate of Occupancy being issued.

Any exposed low voltage wiring must be plenum graded.

MECHANICAL CRITERIA

General Design/Construction Coordination

The mechanical criteria is provided for the purpose of designing the Tenant's heating, ventilating and air conditioning system. This criteria is provided for Tenant's Engineer. It is the Tenant's responsibility to verify existing conditions and comply with all applicable codes and standards.

Complete Engineered drawings must be submitted to Landlord's Tenant Coordinator for review and approval. Landlord will review the plans for conformance to basic Mall requirements. The Landlord does not review for mechanical design, nor does the Landlord accept responsibility for the Tenant's adherence to governing codes.

The documents to be submitted for Landlord approval must include the following:

1. Complete plans and specifications covering the heating, ventilating and air conditioning system work. Show make, type and performance of all equipment. Documents must be signed and sealed by a Licensed Engineer in the state where the shopping Center is located.
2. Calculations showing the heating and cooling required, including transmission and ventilation losses in the space and heat and cooling provided for the ventilation supply and exhaust required for the space. Calculations shall be as described in "Load Calculations", as follows.
3. Temperature control system data showing make, control and energy management systems.

4. Exhaust system layout, including CFM and equipment specifications.
5. Structural details for support of all rooftop equipment and equipment suspended from the steel structure.

HVAC Equipment

Tenant shall furnish and install a split system, all electric heating and air conditioning unit, complete with outdoor condensing unit, indoor fan, refrigerant coil and filter unit, automatic temperature controls and air distribution ductwork.

Load Calculations

The Tenant must perform all calculations in accordance with methods set forth in the latest American Society of Heating, Refrigeration and Air Conditioning Engineers' Guide and Data Book and in accordance with good engineering practice. All calculations must be tabulated in a concise, orderly manner.

Heating load calculation: All spaces must be calculated to maintain the minimum space temperatures in sales and public spaces of 68°F and 50°F in non-public spaces.

Cooling load calculation: All spaces must be calculated to maintain the minimum space temperature of 73°F and a maximum relative humidity of 55° F and shall take into account all interior heat producing items such as people, equipment, roof and exterior walls.

MECHANICAL CRITERIA

DEPTFORD MALL

The Tenant is required to submit calculations indicating the heating and cooling loads for the space and calculations for exhaust and make up air.

Tenants must design for a maximum noise criteria of NC40 for all spaces except kitchens and other similar work areas.

Exhaust Requirements

Tenants whose operation produces objectionable odors such as restaurants, pet shops, hair salons, nail salons and the like must maintain 10% negative air pressure with respect to the Mall by providing make up air equal to 90% exhaust air volume. Tenant may be required to provide, at Landlord's discretion, a separate make up outside air supply system to balance Tenant's exhaust system. Spaces that require exhaust must be designed to provide negative air pressure relative to adjoining conditioned spaces to prevent odor transfer.

Roof mounted exhaust fans must be ducted to ceiling grilles located approximately in the center and rear of the demised premises and specifically near the area where the odors are generated. The system shall be designed to cause the exhaust air to gravitate from the Mall Common Area to the odor producing area and then exhausted out.

Air filtration systems and bathroom exhaust fans are not acceptable solutions.

The exhaust fan must be interlocked with the light switches for the store customer service area.

The combined HVAC and exhaust system must be in operation during all hours that the Tenant is open for business.

Smoke Control

Tenant spaces in the 1990 addition area only (see exhibit C) shall require automatic control damper(s) within the relief air duct(s) in the demised premises, a constant volume terminal box, smoke control controller and all required control device wiring to interface with the Mall Smoke System.

Equipment

Constant volume terminal shall be furnished and installed by the Tenant. The terminal unit shall be complete with control damper, damper operator, differential pressure sensor, electronic controller, low voltage controller transformer with in-line fuse and disconnect switch on primary (120 volt) side. Unit shall be pressure independent.

The constant volume control units shall be selected for 6-7 air changes per hour on the lower level and 10 air changes per hour on the Upper Level (food court) at 0.16"-0.24" WC pressure drop.

The control Unit shall be Enviro-Tech series SSD 11 complete with all control devices for constant volume air flow control sequence, SD723.

At the Tenant's sole expense, the Landlord's Smoke Control Contractor shall furnish, install and provide the interface with the Mall Smoke Control System. At the Tenant's sole expense, the Landlord's Smoke Control Contractor shall furnish the relief air duct damper and operator, installation shall be by Tenant's HVAC Contractor. Upon installation, Landlord's contractor shall perform test and submit report to Mall.

Kitchen Exhaust Systems

Kitchen exhaust systems are subject to Landlord's review to ensure the exhaust does not compromise the ventilation air of adjacent Mall rooftop units. Kitchen exhaust systems are subject to the following criteria:

1. The exhaust fan must be a SWSI centrifugal fan which must be fitted with a minimum 10'-0" stainless steel upblast. Guy wires must be attached to the roof in order to secure the stack. Use the Mall roofer for connection of the guy wires.
2. A "Grease Guard" grease containment system (or approved equal) must be installed to protect the Landlord's roof. See Exhibit A. A quarterly maintenance program must be in place for the grease containment units. Proof of the maintenance contract must be presented to Landlord prior to the store opening.

Roof Penetrations

If use of rooftop units, roof-type supplemental supply, condensing units or exhaust air units by the Tenant is permitted by the Landlord, units must be located on that part of the roof of the building directly above the demised premises or as designated by Landlord. Tenant must provide and install all necessary piping and other necessary appurtenances for the operation of the rooftop equipment. To the extent any of Tenant's equipment is to be located on the roof, the Tenant agrees to erect roof units in accordance with the requirements of the Landlord and the Tenant further agrees to repair any and all damage to the roof and structure caused by hoisting installation and the maintenance and/or servicing of such equipment, all of which must be at the sole cost and expense of the Tenant.

The Tenant must furnish and install all curbs, supports, lintels, pipes, ducts, vent caps, air inlets, exhaust hoods, louvers, flashings, counterflashing, etc. as required for any equipment requiring openings through the roof and/or exterior walls. The use of curb adapters is not allowed.

The Landlord has the right to inspect the quality of the work and approve locations and, if found unsatisfactory, reject same.

All cutting, patching and restoring of roofing is to be done by the Landlord's roofing contractor at the Tenant's expense. All repairs, maintenance and damage to the roof and/or building due to Tenant's installation must be at the Tenant's cost and expense.

Closeout Requirements

1. Tenant must submit as-built drawings and certified air balance reports at construction close out showing the exact location of all equipment and ductwork.
2. Tenant is required to properly abandon old and unused rooftop equipment (HVAC units, exhaust fans, etc.) by full removal, including curb with an appropriate metal deck and roof material patch. All roofing work must be performed by the Mall approved Roofing Contractor.
3. Pavers or walking pads must be placed around the rooftop equipment and from the main pathway to the equipment in order to protect the roof from traffic. All pavers and walking pads are to be provided and installed by the Mall required roofer at Tenant's expense.
4. All Tenant equipment located on the roof or outside the Tenant demised space must be labeled with Tenant name and space number.
5. All piping outside of Tenant's demised premises shall be stenciled with type of service, Tenant name and space number.

PLUMBING CRITERIA

DEPTFORD MALL

PLUMBING CRITERIA

General Design/Construction Coordination

The following criteria is provided for the purpose of designing the Tenant's plumbing system. This criteria is provided for Tenant's Engineer. It is the Tenant's responsibility to verify existing conditions and comply with all applicable codes and standards.

Complete Engineered drawings must be submitted to Landlord's Tenant Coordinator for review and approval. Landlord will review the plans for conformance to basic Mall requirements. The Landlord does not review for plumbing design, nor does the Landlord accept responsibility for the Tenant's adherence to governing codes.

The documents to be submitted for Landlord approval must include the following:

- Complete plans and specifications covering the complete plumbing system. Documents must be signed and sealed by a Licensed Engineer in the state where the Shopping Center is located.
- Drawings shall include fixture schedules, fixture unit calculations and riser diagrams for both domestic water and sanitary piping.

The Tenant shall provide a complete plumbing system for the Tenant space. The Landlord has provided connections in each Tenant space for sanitary waste and potable cold water.

Tenant is responsible for all plumbing including toilets, sinks, urinals, drains, hot water heaters, water coolers, grease traps/interceptors and connections into existing water and sewer lines.

Water Efficiency

1. The Tenant is required to install waterless urinals in tenant restrooms when urinals are used.
2. Low-Flow water closets using 1.6 GPF or less gallons per flush will be installed in all tenant spaces.
3. Operation sensors and low-flow heads using 0.5 GPM or less in lavatories.

Tenant shall provide a main water shut off valve located at eye level in a wall behind a labelled access door. Locate in or near employee restroom as designated by Landlord.

All domestic supply lines shall be copper. Sanitary and vent lines traversing the ceiling area to be cast iron or copper (no PVC). Tenant will utilize electric water heaters for domestic hot water.

Every Tenant must install a handicapped restroom facility with a minimum of one water closet and one lavatory and in accordance with local code officials. An exception to this requirement is only permitted for Food Court Tenants who are within close proximity to the public restrooms upon approval of the Landlord and local code official.

All Tenant restrooms must have a floor drain installed. Mop sinks and water fountains must be installed per local code requirements. Contact Deptford Township for specific requirements.

PLUMBING CRITERIA

DEPTFORD MALL

CONTINUED

Tenant must install cleanouts as required by code and Landlord's requirements and these shall terminate flush with the finish floor or wall. No cleanouts are permitted above the ceiling.

All Tenants shall install a water usage meter that measures in gallons on the incoming water service. The meter shall be valved at the inlet and outlet. A remote reader shall be installed within the premises adjacent to rear exit door at a height of 48" or in another accessible location approved by the Landlord.

Garbage disposals are not allowed.

Hair salons and pet shops shall provide hair and solids interceptors on all sinks and basins which may receive human or animal hair. After installation, these hair interceptors shall be properly maintained so as to keep the sanitary system free from any adverse conditions.

Except with Landlord's prior written permission for non-compliance, all pot sinks, scullery sinks, pre-wash sinks and other kitchen units must be connected to a grease trap. Dishwashers may not be connected to grease trap.

If outside Tenants lease line, location of grease interceptor must be designed and approved by Landlord prior to installation.

Waterproofing must be installed in all "wet areas" such as kitchens, restrooms, mop sinks, drinking fountains, etc. The waterproof membrane must extend 4" vertically on all demising walls. This membrane will be water tested by the General Contractor and inspected and signed off by Mall Personnel. If the membrane fails the water test, it must be replaced.

Food service, hair salons or other Tenants with equipment or operations that have the possibility of backflow will be required to install an approved backflow preventer. These must be certified and acceptable to the water district and checked yearly or as required by the local authority having jurisdiction.

Tenants on the upper level must coordinate with lower level Tenants and the Landlord for floor penetrations and any plumbing under the upper level floor/deck. Tenant will be responsible for all cost associated with this work. All floor penetrations are to be sealed water tight.

Tenants must submit calculations to the Landlord which show the size selection or basis of capacity of all equipment and piping.

Gas Service

Gas service is available for cooking equipment in the 1990 addition area (see exhibit C) and may be available at other locations deemed accessible by the Landlord.

Tenant, at its sole cost and expense and in compliance with local code, must procure gas service to and within the demised premises and will make all necessary arrangements with the local Gas Company for such service. Tenant is responsible for installation of a gas meter at the gas meter header.

Pressure regulators and piping required for connection to Tenant's equipment is the responsibility of the Tenant. Coordinate with Landlord for regulator vent routing.

Gas piping on the roof must be placed on pillow blocks or similar arrangement. All supports in contact with the roof must be approved by the Mall roofing contractor.

Ventilation

Tenants will provide vertical exhaust ducts at a location designated by Landlord. All hood exhaust must be connected to vertical duct in accordance with code. Tenants are required to provide for the upkeep and maintenance for such vertical exhaust duct and related devices and materials.

All sanitary sewer and plumbing vent piping shall comply with all local codes.

STRUCTURAL CRITERIA

DEPTFORD MALL

STRUCTURAL CRITERIA

The following criteria is provided for the purpose of designing the Tenant's structural drawings. This criteria is provided as a guideline for Tenant's Engineer. It is the Tenant's responsibility to verify existing conditions and comply with all applicable codes and standards.

Complete Engineered drawings must be submitted to the Landlord's Tenant Coordinator for review and approval. Landlord will review the plans for conformance to basic Mall requirements. The Landlord does not review for design, nor does the Landlord accept responsibility for the Tenant's adherence to governing codes.

The documents to be submitted for Landlord approval must include the following:

- Complete plans and specifications for all structural work. Documents must be signed and sealed by a Licensed Engineer in the state where the Shopping Center is located.

General Requirements

1. The Tenant's storefront must be structurally self-supported. Tenant may not support the storefront from the bulkhead or fascia. Structural lateral bracing support for Tenant storefronts must be from the roof joists.
2. Fixtures and equipment may not be attached to or supported from the floor or roof deck.

3. Structural drawings are required for all items that require support from the steel structure or for all rooftop equipment weighing 300 lbs or more.
4. Joist reinforcing is required for rooftop equipment as well as steel support for all roof openings. Specific details are to be provided in the Tenant plans.
5. Upper level Tenant's must review base building structural drawings prior to installing a security safe, ovens or any equipment weighing 300 lbs. or more.

EXIT CORRIDORS

Distribution of utilities through a newly constructed or an altered exit passageway is prohibited except for equipment and ductwork specifically serving the exit passageway, sprinkler piping, standpipes, electrical raceway for fire department communication and electrical raceway serving the exit passageway.