

**SECTION 09955 - FABRIC WALL COVERING**

1. Work of this Section consists of installing all materials furnished under this Section, including all equipment, labor, services, and incidental items required to complete Work as shown on Drawings and specified in this Section.

- a. Preparation of substrate to receive Fabric Wall Covering is specified in Section 09900--Painting.
- b. Adhesive applied Wall Fabric Installation, complete with Accessories.

**2. Shop Drawings:**

- a. Show layout and seaming diagrams.
- b. Indicate pattern direction and locations and types of edging.
- c. Show installation details at special conditions.

**3. Materials:**

- a. Wall Fabric-- Manufacturer, Pattern, Color and Texture as noted on drawings.
- b. Adhesives-- As recommended by Wall covering manufacturer.

**4. Substrate Conditions - Direct Glue Down on prepared drywall substrate:**

- a. Examine all substrate and correct defects before beginning work. Complete all work that penetrates the substrate before beginning wall-covering installation. Starting work shall indicate acceptance of a suitable substrate surface.
- b. Fill holes, knock off high spots, sand, dust and prime with one coat of primer.

**5. Sample Panel:**

- a. A prepared test panel of full width wall covering shall be installed in area designated by Owner. Test panel shall conform to appearance and workmanship required for the project. Test panel found deficient by specification standards or application procedures shall be replaced. The approved test panel shall be the standard of comparison for the project. No work shall begin until Owner approves panel.

**6. Installation:**

**a. Sequence:**

- i. Use wall covering rolls in consecutive numerical sequence of manufacturer.
- ii. Place panels consecutively in exact order they are cut from the roll including filling all spaces above or below windows, doors or similar penetrations.
- iii. Reverse alternate strips except on match patterns.

**b. Application:**

- i. General:
1) Install wall covering before the installation of plumbing fixtures, casings, bases, and cabinets. Remove and replace hardware, accessories, plates and similar items.
2) Trimming (patterned fabrics only):
1) Trim deeply textured strip matched patterns on a work table with a metal straight edge and an industrial razor blade. Trim additional selvage where required to achieve a color and pattern match at seams.

**iii. Adhesive:**

- 1) Follow the manufacturer's printed instructions for mixing adhesive.
- 2) Apply adhesive to wall covering back using a roller or paste brush.

**iv. Wall covering:**

- 1) Hang non-matched patterns by overlapping the edges and double cutting through both thicknesses with a 0.04 or 0.06 inch thick zinc or aluminum strip back-up to prevent cutting the substrate. Wrap 6 inches beyond inside and outside corners, no cutting at corners permitted. No horizontal seams permitted.
- 2) Use stiff bristled brush or flexible broom knife to eliminate air pockets and to secure to substrate surface.
- 3) With a damp sponge, remove excess adhesive from each seam as it is made and wipe clean and dry with a cloth towel.
- 4) Installed wall covering shall be secure, smooth and clean, without wrinkles, gaps or overlaps.

**DIVISION 10 - SPECIALTIES**

**SECTION 10150 - TOILET COMPARTMENTS**

1. All compartments and screens are furnished and installed by Contractor. Manufacturer equal to Floor Anchored-Overhead braced partitions by American Sanitary Partition Corporation, Cocoa, FL, 34761

2. Toilet compartments shall be Type PL--FF; Color as noted on drawings.

- a. Panels and doors shall be externally covered with high pressure decorative laminated plastic, all edges bound, bonded to industrial grade 45lb. particle board. Siles shall be of veneer steel construction laminated to a honeycomb core and externally covered with high-pressure decorative plastic. Construction consists of NO PARTICLE BOARD. Stiles, panels and doors shall be laminated to a correct dimension producing a stile unit of not less than 1 1/4" thick and a panel and door unit of not less than 1" thick. Siles, panels and door units shall be pre-plened for application of fittings and hardware.
- b. Fittings: All wall brackets shall be "Zmac" coat oily non-ferrous metal. All brackets are chrome plated and adjustable to keep panels and stiles clear from walls. Stile cover bases shall be 3" high, of No. 304 stainless steel.
- c. Hardware: Doors shall be equipped with "Trouble-Proof" hinge set. Each hinge set shall consist of cast non-ferrous metal hinge brackets. All hinge brackets are chrome plated. The top pivot shall be recessed into the edge of the door 2/8" below the top. Heavy steel pin operating in a "Zmac" nylon cam which permits setting of the door at any desired position when door is not latched. Side latches, combination bumper and keepers and coat hooks shall be of cast metal which are chrome plated. All hardware except coat hooks shall be through bolted. One way theft proof screws and fasteners shall be provided for all hardware.

3. Install partitions secure, plumb, level and square

4. Mount panels, doors and urinal screens with bottom edges 12 inches above the floor.

5. Mount head rails for bracing 12 inches above tops of doors and panels.

6. Attach panel brackets securely to walls using appropriate anchorage devices.

7. Attach panel and pilaster to brackets with through bolts and nuts.

8. Anchor urinal screens to walls to support 150 pound loads required in RR--P-1352.

9. Conceal floor fasteners with pilaster shoes.

10. Equip each door with hinges, latch, keeper and stop; door pull and coat hook with bumper.

11. Adjust and align hardware to uniform clearance at vertical edges of doors not exceeding 3/16" inch.

12. Adjust hinges to locate doors in partial open position when latched.

- a. Set Accessible Compartment doors to return within 5 degrees of closed position.
- b. Set all other doors to return within 30 degrees of closed position.

**SECTION 10442 - INTERIOR DOOR SINGS**

**1. Design and Fabrication**

- a. All patterns for fabrication, regardless of production technique, method, or process specified, shall be approved by the Owner prior to production in order to ensure conformity to design with regard to letter form and height, wording, spelling, capitalization, punctuation, letter spacing, leading and layout or composition.
- 2. The drawings were prepared and this specification written on the basis of using the products of Kry Sign Systems, Scottsdale, Arizona. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

3. Generic: Regulatory signage series opaque acrylic, matte finish plaques, with front surface hot stamp graphics, in low profile frame. Configuration shown on drawings to conform with Americans with Disabilities Act regulatory requirements.

4. Provide one sign (unit) for each restroom door opening for public facilities.

5. Installation shall be started at the time established by the General Contractor. However, no sign work shall be permitted in the building before the building is completely enclosed and all painting and work of other trades is finished.

6. Install signs in accord with approved shop drawings. Install true to line, plumb, level, square, in proper planes with other work and free from objectionable defects. Anchor to adequately resist all normally subjected stresses.

**SECTION 10523 - PORTABLE FIRE EXTINGUISHERS**

1. Section includes Fire extinguishers and Mounting brackets

2. Provide new portable fire extinguishers which are UL listed and bear UL "Listing Mark" for type, rating, and classification of extinguisher indicated.

**3. Dining Area Fire Extinguishers:**

- a. Provide where located on drawings, equal to J.L. Industries "Cosmic A" Series Model SE, Class A, B, and C, cabinet-mounted 5 lb. capacity with nozzle. Approved equal fire extinguisher as manufactured by Larsen's Manufacturing Co., or Muckle Manufacturing Co. shall also be acceptable for use on this project.

b. Recessed cabinet with rolled edge trim: Model and Finish as noted on Drawings.

**4. Kitchen Area Fire Extinguishers:**

- a. Provide a minimum of two, equal to J.L. Industries "Salam - Model 15" wall-mounted, dry chemical type K rated, 6 lb. capacity fire extinguishers with pressure gauge.

b. Brackets: Equal to J.L. Industries "Mark Brackets, Model MGB10" for Model 15 fire extinguisher.

5. Anchors: Non-corrosive types as required by wall conditions.

6. Mount in strict conformance with manufacturer's instructions; in locations noted on drawings and locations directed by local fire marshal.

**SECTION 10730 - ALUMINUM CANOPIES**

1. Installation of Owner Furnished (B.O.) pre-finished aluminum, overhead hanger rod style canopies

2. Manufacturer: SAS Architectural Fabrication, Fort Worth, Texas.

3. General Contractor shall receive and store all canopy components in protected areas.

**4. Manufacturer Submittals:**

- a. General Contractor shall confirm site dimensions for manufacturer prior to preparation of shop drawings when possible.
- b. Shop drawings shall show structural component locations/positions, material dimensions and details of construction and assembly.
- c. Canopy shall conform to local building codes.
- d. Manufacturer shall determine load requirements for canopies and supply stamped calculations by Structural Engineer licensed to practice engineering in State where project is located.

**5. Materials:**

- a. Decking and fascia shall be extruded aluminum, alloy 6063-T6, with four inch (4") fascia profile and 1 1/2" extruded aluminum decking per manufacturers standards.
- b. One inch (1") threaded, adjustable hanger rods and attachment hardware shall be provided with canopy.
- c. Finish: Powder coat, color as noted on drawings

**6. Fabrication:**

- a. All connections shall be mechanically assembled utilizing 3/16" fasteners with a minimum shear stress of 350 lb. Pre-welded or factory-welded connections are not acceptable.
- b. Decking shall be designed with interlocking extruded aluminum members with mechanical fasteners field applied to provide structural integrity for the completed assembly.

**7. Installation:**

- a. Confirm that surrounding area is ready for canopy installation.
- b. Installer shall confirm dimensions and elevations to local zoning or approved shop drawings.
- c. Erection shall be performed by approved Installer and scheduled after all exterior wall finish, concrete, masonry and roofing in the area is completed.
- d. Installation shall be in strict accordance with manufacturer's shop drawings. Particular attention should be given to protecting the finish during handling and erection.
- e. Utilize collision dampers at all EIFS wall systems to prevent crushing at connection points.

**SECTION 10900 - TOILET ACCESSORIES**

1. All toilet accessories are furnished and installed by Contractor. Coordinate rough-in, openings and wood blocking.

2. Install fixtures, accessories and items in accordance with manufacturer's instructions, and where affected, at heights or locations for the handicapped as indicated or specified herein.

3. Install true, plumb and level, securely and rigidly anchored to substrate.

4. See Construction documents for accessories.

5. Baby Changing Stations to be furnished and installed by Contractor. This is a non-substitute item to be ordered from:

Koala Kere Products  
8892 S. Quentin St.  
Centennial, CO, 80112  
Phone: 1-888-733-3456

6. Product: Horizontal Wall Mount Baby Changing Station; # KB100-00 Cream

**DIVISION 11 - EQUIPMENT**

**SECTION 11400 - FOOD SERVICE EQUIPMENT (INSTALLATION)**

1. Section includes installation of Owner provided food service equipment. This equipment shall be furnished, assembled, and set in place under separate contract, with final utility connection by General Contractor.

**2. Related Sections**

a. Mechanical and electrical services and final connections to equipment.

3. Owner will provide equipment manufacturer's installation instructions for Contractor's use.

4. Owner will provide equipment manufacturer's operation and maintenance data for Contractor's use.

5. Coordinate size of access and route to place of installation.

**6. Owner Provided (By Owner):**

- a. Equipment scheduled on the drawings.
- b. Mechanical refrigeration systems, including compressor units, condensers, evaporator coils, and control valves.
- c. Motor starters.
- d. Walk-in refrigerator/freezer thermostats.
- e. Stainless steel trim strips, supports and connections, attachment devices, and accessories.

**7. Contractor Provides... Refrigerant System Installation**

- a. Refrigerant Lines: Type 1/4" hard copper tubing.
- b. Fittings: Wrought copper or brass designed for use with high temperature solder.
- c. Flaring Joints: Made with silver solder (SI-Fls).
- d. Piping: Properly suspended from an anchor to the structure with adjustable hangers 6" o.c. maximum.
- e. Suction Lines: Size to have maximum pressure drop of two pounds in medium temperature systems, one pound in low temperature system.
- f. Liquid Lines: Sized to give maximum pressure to prevent trapping of oil. Rigid insulation on all suction lines to be Armaflex insulation by Armstrong - 1" thick at medium temp., 1-1/2" thick at low temp. Refrigerant lines in PVC or EMT conduit to be sealed at both ends with Dow Corning 3-6548 silicone RTV foam.
- g. Evaporator and Separator: After completion of the pressure test, the system shall be evacuated using an approved quillary vacuum pump. Connections for evacuations to be in accordance with manufacturer's recommendations.

**8. Delivery, Handling and Storage**

- a. Delivery: Upon receiving equipment, check crates/cartons identification labels with receiving P.O.; assure correct item has been received.
- b. Handling: Uncrate equipment in organized manner. Take care not to misplace loose parts, accessories, assembly and operating instructions, and warranty cards. Keep utility hookup notes and tags on equipment until after connections are made. Assemble in workmanship manner in accord with manufacturer's directions, taking care to make sure fasteners are tight and components are oiled and square.
- c. Storage: Store equipment clear of floor in manner to prevent warping, twisting, or sagging.

**9. Installation**

- a. Install items in accord with manufacturer's instructions and fabricator's shop drawings. Install in accord with local governing Health, Building, and Safety, and Fire Protection Codes and Regulations and NEMA, UL, AGA, ASME and NFPA.
- b. Electrolysis: Insulate to prevent electrolysis between dissimilar metals. Provide sealant to achieve clean joint without crevices.

**c. Equipment:**

- 1. **Gasoline:** Set in place and position per kitchen equipment plan; ready for hook up. After utility hookups are made, level and secure dishwasher to the wall toward dishwasher. Completely close and seal gaps, joints and areas between fixtures/equipment and walls, ceilings and floors with stainless steel trim strips and/or clear silicone sealant. Do not use sealant in gaps or seams over 3/16 inch wide.
- 2. **Refrigerant Piping:** Install copper tubing and fittings. Cut pipe close and reshape with sizing tool. Expose piping to meet required American Standard Safety Code for Mechanical Refrigeration. For roof areas or other exposed areas, use hard copper tubing. Run exposed piping in such manner as to prevent damage from activities in area, otherwise protect piping in pipe-in-conduit.
- 3. **Suction Lines:** Size to have max pressure drop from evaporator to machine of 2 lb. For high temp systems and 1 lb. For freezer system, allowing gas velocities not less than 1000 ft/min in horizontal runs and 1500 rpm in vertical risers. Do not use liquid traps. Max pressure drop of 3 lbs. from receiver to evaporator.
- 4. **Liquid Lines:** Grade to prevent trapping of oil.
- 5. **Joints:** Secure suction and liquid lines for each system together, except when through conduit, 24 inch intervals with black plastic electrical tape.
- 6. **Insulation:** Insulate refrigerant suction lines outside of refrigerated compartments back to compressors.
- 7. **Hangers and Supports:** Provide adjustable hangers, anchors or straps required for proper support of piping run in conduit. Space hangers not to exceed 10 feet o.c. and closer where required for proper support of piping.
- 8. **Flare Joints:** Provide insulated refrigerant piping with approved type sleeves at hang points.
- 9. **Walk-In Cooler/Freezer Boxes:** Transit level floor screens prior to wall and ceiling panel erection. Seal wall and/or ceiling penetrations for electrical conduits and refrigerant lines, etc., to prevent frost and condensate build-up. Electrical connections, on exterior of box.
- 10. **Oil Separators:** Provide low temperature operations of system, return line connected to top of crankcase above oil level. Provide exposed oil return lines with shut-off valves of packless stem type.
- 11. **Evaporator Coils:** Support by hangers utilizing fish plates on top of walk-in unit 4" full 4 inches clear from underside of ceiling panels.

**DIVISION 15 - MECHANICAL**

**SECTION 15100 - GENERAL MECHANICAL REQUIREMENTS**

**1. Scope of Work:**

- a. The work to be accomplished under this Section of Specifications includes the furnishing of all labor, materials, supervision and equipment for the complete installation of air conditioning, heating, ventilating, plumbing, fire protection together with all the necessary auxiliaries and appliances. Generally the work shall consist of, but is not limited to, items listed in the following paragraphs.
- b. Air Conditioning and Heating: Factory built air conditioning and heating units of the single zone roof top package, filters, fans, motors, drives, HVAC units, hoods, etc.
- c. Air Distribution System: Sheet metal ductwork, volume dampers, splitter dampers, turning vanes, air control devices, grilles, registers, diffusers, flexible duct, install per SMACNA Standards. Fiberglass duct board is not an acceptable alternative.
- d. Plumbing: Soil, waste and vent piping, domestic hot and cold water distribution, hot water generators, natural gas distribution, fixtures, grease traps, vents, condensate lines of HVAC and miscellaneous equipment, underfloor or overhead soda, refrigerant line conduit and/or roof leaders.
- e. Miscellaneous Supply and exhaust fans, make-up air units, temperature controls, thermal insulation, apparatus foundations and supports, pipe hangers and supports and all necessary tools, accessories and appliances as required to make all systems complete and operative.

**2. Products and Execution:**

- a. Electrical Provisions for Mechanical Work: Except for such items as are normally wired up of their point of manufacture and so delivered, and unless specifically noted to the contrary herein, the Electrical Subcontractor will provide all electric wiring of every character for power supply. Control wiring shall be furnished and installed by the Electrical Subcontractor. The Subcontractor shall erect all motors in place ready for connection. Except for such items as are normally supplied with starters installed (HVAC units, dishwashers, etc) at their point of manufacture. All other starters not furnished with equipment to be furnished and installed by Electrical Contractor. The Electrical Subcontractor will mount all such starters, as directed, furnishing supporting structures where necessary. The Owner and other Contractors shall furnish with each item requiring electrical connections, the necessary instructions and wiring diagrams to the Electrical Subcontractor. The Electrical Subcontractor shall refer to the specifications to determine the scope of the work.
- b. Chases and Openings: Various divisions, however, the locations of all inserts and openings shall be determined and coordinated with other divisions in ample time to avoid cutting into construction.
- c. Roof Flashing of Ducts and Curbs: Division 7, however, plumbing vent flashing and counter flashing shall be provided under this Division and per roof manufacturer recommendations.
- d. Openings in Roof Deck: Where piping, ducts, vents or any other mechanical apparatus penetrates roof deck and opening is not specifically shown on architectural drawings, obtain Architect's approval of location and size. Have roof deck installer flashing and pay installers cost of cutting opening.

**3. Permits, Fees and Code Regulations:**

- a. Permits: Obtain all permits required to do the work and pay all fees required to obtain such permits.
- b. Regulations: Conform to all State, and Local Ordinances and Rules applicable to this work and in effect at the time the work is performed. Approval of various inspectors and inspection authorities shall be obtained. When required, competent evidence of compliance, with applicable codes, shall be furnished.
- c. Conflicts: If a conflict exists between the drawings and the specifications and any above mentioned authority, the Contractor shall advise the Architect/Engineer in writing five (5) days prior to presenting final proposal and stand any cost of material to meet regulations.

**4. Structure and Space Constraints:**

a. The specifications and accompanying drawings are intended to encompass a system that will fit into the structure, electrical and architectural design of the building, and which will provide the service in available spaces. As it is not within the scope of the drawings to show necessary detailed construction of structural conditions, it shall be the responsibility of Contractor to install his work in such a manner that it will conform to the structure, avoid obstructions and interferences with other trades, preserve headroom, and keep openings and passageways clear. Do not run piping or ductwork, or locate equipment (with respect to electrical switchboards, panels, power panels, motor control centers or dry type transformers) within 42" in front of or over electrical equipment, or within 36" horizontally of same space.

**5. Drawings:**

a. The drawings as prepared are diagrammatic but shall be followed as closely as actual construction of the project and the work of the trades will permit. Changes from the drawings necessary to fit the work of various trades, to conform to equipment actually being installed, or to conform to the rules of authorities having jurisdiction shall be made without additional cost to the Owner.

**6. As-built Drawings:**

a. Provide and keep up-to-date, a complete record set of blue line prints which shall be corrected daily with dated notations, and shall show every change from the original Contract drawings. This set of prints shall be kept on the job site and shall be used only as a record set.

**7. Protection of Materials:**

a. Take such precautions as are necessary to protect all equipment and materials from damage.

**8. Workmanship:**

a. Labor shall be performed in a workmanlike manner by mechanics skilled in their particular trades.

**9. Materials and Equipment:**

a. All materials shall be new and of the best quality. Where manufacturer's names and model numbers are mentioned in the specifications, it is intended to set a standard of quality and shall not be construed to limit competition unless specifically stated in drawings or to discriminate against equal products of other manufacturer. The words "or approved equal" are to follow each material specification where a substitution will be considered. Any proposed substitution must be submitted for comparison and it is understood that the Engineer shall be the sole Judge in the matter.

**10. Vibrations and Noise:**

a. Each of the various pieces of equipment shall operate without objectionable vibration or noise. All rotating equipment shall be in static and dynamic balance and shall be mounted, supported and fastened so that no equipment vibration will be transmitted to the building. The specific size of vibration isolation shall be in accordance with manufacturer's recommendation and shall be submitted to the Engineer for approval. If, in the opinion of the Engineer, objectionable vibration or transmission thereof to the building occurs, the Contractor shall execute remedial measures as may be necessary to eliminate such unsatisfactory operating conditions at the Contractor's expense.

**11. Operating Instructions:**

a. Brochures: Written instructions, assembled and bound in brochures, shall be furnished in brochure for operating and maintaining all equipment furnished under this Division of the Specifications. Instructions shall include all normal adjustments, a list of lubricating points with the type and frequency of lubrication required. Parts lists shall be furnished.

b. Demonstration: Upon completion and acceptance of work by the Owner, the Contractor shall be provided to instruct the operating personnel in the operation of the entire installation. Two sessions shall be held, one for summer operation and one for winter operation, both in the respective seasons.

c. Equipment Location and Use: Provide, in triplicate, suitably bound operating book containing all equipment, its location, use and description, and building schematics. Submit to Architect for approval before printing in final form.

d. Contractor shall instruct store manager and Owner's Construction, Operations or Facilities Manager on the programming of all thermostats. This shall be a hands-on explanation. Contractor shall also provide manager with booklet showing programming instructions.

**12. Final Inspections:**

a. Schedule: Upon completion of Contract, there shall be a final inspection of the completed installation. Prior to this inspection, all work under this Division shall have been completed, tested, balanced, and adjusted and in final operating condition.

b. Personnel: A qualified person representing the Contractor must be present at this final inspection to demonstrate the system and prove the performance of the equipment.

**13. Cutting and Patching:**

a. Where cutting and patching becomes necessary to permit the installation of any work under this Contract, or should it become necessary to repair any defects that may appear in patching up to the expiration of the guarantee, such cutting and patching shall be done under the supervision of the Owner by the trade of Subcontractor responsible for the work to be patched. After the necessary work has been completed, the trade of Subcontractor responsible for the work to be patched shall repair damage. The cost of all cutting and patching shall be paid by the trade of Subcontractor requiring it to be done.

**14. Excavations and Backfilling:**

- a. Provide necessary excavation and backfilling for the installation of work specified in this Division. Trenches for underdrain piping and ducts shall be excavated to required depths with bell holes provided as necessary to insure uniform bearing. Care should be taken to excavate below existing utilities to a minimum depth below grade. If any utilities are encountered, they shall be excavated to a grade six (6") below as indicated. After the pipe has been installed, tested and approved the trenches shall be backfilled to grade with approved material, well-tamped or tamped and compacted in place. Do not proceed with backfill operations until piping has been installed. The Owner or by the local inspector of the municipality in which the work is to be performed, shall perform backfilling operations except in the presence of the Owner or inspector. All work outside the building shall be installed below the frost line. Where streets, sidewalks, etc. are disturbed, cut or damaged by this work, the expense of repairing same in a manner approved by the Owner shall be part of this Contract.

**15. Guarantee:**

- a. The guarantee provision of this specification requires prompt replacement of all defective workmanship and materials occurring within one year of job acceptance. This includes all work required to remove and replace the defective item and to make all necessary adjustments to restore the entire installation to its original specified operating condition and finish at the time of acceptance.

**SECTION 15400 - PLUMBING**

**1. Scope of Work:**

- a. Furnishing of all labor, materials, tools, transportation services, etc. necessary to complete the installation of the plumbing system and as described in these specifications, as illustrated on the accompanying drawings, or as directed by the Engineer.
- b. All hot and cold water systems with complete connections from the water meter to all plumbing fixtures and equipment requiring water connections. These systems will be complete with controls, valves, equipment, devices and insulation.
- c. All soil, waste, and vent systems outside and inside the building and sewer connections to Municipal Authority indicated on drawings.
- d. Natural Gas: All natural gas systems outside and inside the building from the gas meter to all appliances and equipment requiring gas connections. These systems will be complete with controls, valves, equipment, devices and connects.
- e. Furnish and set plumbing fixtures, including all the required trim and supports.
- f. Tranching, pipe leading and backfilling.
- g. All rough-in and final connection to equipment in the Kitchen, Bar and Service areas, if indicated on the drawings, including necessary traps and miscellaneous items as required. Coordinate w/Owner and K.E.C.
- h. Furnish all final plumbing connections to heating and air conditioning equipment, and kitchen hot equipment including condensate drains, indirect waste and gas piping. Refer to construction drawings for requirements.
- i. Meters and Utility Connections:
1. Water: Coordinate work with the local water company. Furnish all labor and/or material (not furnished by the water company), which is required to connect to existing line and/or set meter, install all permanent water supply lines from the point of connection and complete the work as shown, all in accordance with the requirements of the local water company. Owner shall pay tap fees. (if required). Plumbing Contractor shall pay all work related inspection fees by authority having jurisdiction.

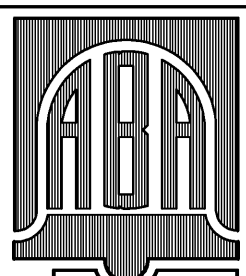
- 2. Sewer Connections: Coordinate work with the landlord and/or local utility company. All work and materials shall be in strict accordance with the requirements of the local governing authority. Tap fees shall be paid by Owner (if required). Plumbing Contractor shall pay all work related inspection fees by authority having jurisdiction (if required).
- 3. Gas: Coordinate work with local utility and furnish all labor and/or materials (not furnished by utility) which is required to provide a working utility for Owner, inclusive of meter and/or regulator. Furnish system from topping point to and in the building as required and shown on drawings. Tap fees shall be paid by Owner (if required). Plumbing Contractor shall pay all work related inspection fees by authority having jurisdiction (if required).

- a. Gas piping to heating, ventilating and air conditioning equipment, and water heater.
- 2. Shop Drawings:**
- a. Within 15 days after award of Contract, and before any plumbing materials are delivered to the job site, submit to the Owner three (3) complete shop drawings in accordance with the provisions of Section 01300 of these specifications, including all plumbing fixtures, trim, drains, cleanouts, piping, valves, insulation, hangers, supports, equipment and devices proposed to be furnished and installed. Shop drawings shall not be reviewed unless they bear the review stamp of the General Contractor.
- 3. Product Handling:**
- a. In the event of damage, immediately make all repairs and replacements necessary to the approval of, and at no additional cost to the Owner.
- 4. Examination of the Site:**
- a. All Contractors submitting proposals for this work shall first examine the site and all conditions, including local rules and regulations, thereon and/or therein. All proposals shall have taken into consideration all conditions that may affect the work under this Contract. Lack of this information will not be considered as justification for extra cost or allowances to the Contractor's price.
- 5. Guarantee:**
- a. All work performed under this section shall be guaranteed to be free of defective materials and workmanship for a period of one year after final acceptance of the work by the Owner.
  - b. Upon notice received from the Owner, Architect or Engineer, of failure of any part of the guaranteed equipment during the warranty period, the Contractor, at no additional cost to the Owner, shall promptly replace affected part or parts with new parts. All labor required to perform guaranteed shall be included as part of the complete warranty.

**6. Products:**

**a. Description**

- 1. Soil, Waste and Vent Piping: Below floor to 5'-0" outside building and yard piping shall be A.B.S. or P.V.C. Schedule 40 pipe and fittings if approved by local authority, or standard weight coated cast iron soil pipe and cast iron/neoprene gasket fittings. Yard piping, where under a superimposed load condition such as a driveway or parking area, shall be service weight cast iron soil pipe and cast iron/neoprene gasket fittings.
- 2. Above floor shall be A.B.S. or P.V.C. Schedule 40 if approved by local authority, or standard weight coated cast iron pipe with neoprene rubber gaskets or hubless cast iron pipe with neoprene rubber gaskets and stainless steel clamps (Clamps All or equal).
- 3. Hot and Cold Water Piping:
a. Above the floor shall be Type L copper with S5/5 sweat soldered and wrought copper fittings. Under building slabs shall be Type K soft drawn copper tubing without joints under floor. Loop from wall to wall.



**BELL & ASSOCIATES ARCHITECTS**  
ALAN BELL, DOUG ELKINS  
MARK SMITH, & TROY BELL  
alanbellarchitect.com  
1871 LAYTON ROAD, SUITE 1017  
CLARK COUNTY, GEORGIA 30025  
PHONE (770) 850-6666 FAX (770) 850-6969

REVISIONS BY	

