

COMFORT SUITES

SECTION 10200 - LOUVERS AND VENTS

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

DESCRIPTION OF WORK:

Extent of louvers and vents is indicated on drawings, including indications of sizes and locations.

Types of louvers and vents include the following:

Extruded aluminum louvers

Sealants including installation are specified in Division 7.

Field-applied paint is specified in Division 9.

QUALITY ASSURANCE:

Comply with SMACNA "Architectural Sheet Metal Manual" recommendations for fabrication, construction details and installation procedures, except as otherwise indicated.

Field Measurements: Verify size, location and placement of louver units prior to fabrication, wherever possible.

Shop Assembly: Coordinate field measurements and shop drawings with fabrication and shop assembly to minimize field adjustments, splicing, mechanical joints and field assembly of units. Preassemble units in shop to greatest extent possible and disassemble as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

SUBMITTALS:

Product Data: Submit manufacturer's specifications; certified test data, where applicable; and installation instructions for required products, including finishes.

Samples: Submit 12" square, of each required finish. Prepare samples on metal of the same gage and alloy to be used in work. Where normal color and texture variations are to be expected, include 2 or more units in each sample showing limits of such variations.

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURERS:

Manufacturer: Subject to compliance with requirements, provide products of one of the following:

The Airolite Co.

COMFORT SUITES

Construction Specialties, Inc.
Industrial Louvers, Inc.
Ruskin Mfg. Co.

MATERIALS:

Aluminum Sheet: ASTM B 209, Alloy 3003 or 5005 with temper as required for forming, or as otherwise recommended by metal producer to provide required finish.

Aluminum Extrusions: ASTM B 221, Alloy 6063-T52.

Fastenings: Use same material as items fastened, unless otherwise indicated. Fasteners for exterior applications may be hot-dip galvanized, stainless steel or aluminum. Provide types, gages and lengths to suit unit installation conditions. Use Phillips flat-head machine screws for exposed fasteners, unless otherwise indicated.

Anchors and Inserts: Use non-ferrous metal or hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

Bituminous Paint: SSPC-Paint 12 (cold-applied asphalt mastic).

FABRICATION, GENERAL:

Provide louvers and accessories of design, materials, sizes, depth, arrangement, and metal thicknesses indicated, or if not indicated, as required for optimum performance with respect to airflow; water penetration; air leakage, where applicable (for adjustable units, if any); strength; durability; and uniform appearance.

Fabricate frames including integral sills to suit adjacent construction with tolerances for installation, including application of sealants in joints between louvers and adjoining work.

Include supports, anchorages, and accessories required for complete assembly.

Provide sill extensions and loose sills made of same material as louvers, where indicated, or required for drainage to exterior and to prevent water penetrating to interior.

Join frame members to one another and to stationary louver blades by welding, except where indicated otherwise or where field bolted connections between frame members are made necessary by size of louvers. Maintain equal blade spacing, including separation between blades and frames at head and sill, to produce uniform appearance.

STATIONARY EXTRUDED ALUMINUM WALL LOUVERS:

Horizontal Drainable Blade Louvers: Units designed to collect and drain water to exterior at sill by means of gutters in front edges of blades, and channels in jambs and mullions. Furnish units with extrusions not less than 0.081" thick, of depth, and sizes indicated, complying with following performance requirements.

Free Area: Not less than 50% for a 48" x 48" size.

Static Pressure Loss: Not more than 0.15" of water gage at an airflow of 1050 fpm free area velocity in intake direction.

Water Penetration: Not more than 0.052 oz. per sq. ft. of free area at an airflow of 1000 fpm free area velocity.

COMFORT SUITES

LOUVER SCREENS:

Provide removable screens for exterior louvers where indicated.

Fabricate screen frames of same metal and finish as louver units to which secured, unless otherwise indicated.

Provide rewireable frames consisting of formed or extruded metal with a driven spline or insert for securing screen mesh.

Use insect screens where indicated, of the following:

18" x 16" mesh, 0.011" aluminum wire.

Locate screens on inside face of louvers, unless otherwise indicated. Secure screens to louver frames with machine screws, spaced at each corner and at 12" o. c. between.

METAL FINISHES:

General: Comply with NAAMM "Metal Finishes Manual" for finish designations and application recommendations, except as otherwise indicated. Apply finishes in factory after products are assembled. Protect finishes on exposed surfaces with protective covering, prior to shipment. Remove scratches and blemishes from exposed surfaces which will be visible after completing finishing process.

Provide colors or color matches as indicated or, if not otherwise indicated, as selected by Architect from manufacturer's standard colors.

Aluminum Finishes:

Conversion-Coated and Factory-Primed Finish: AA-C12C42 R1x (cleaned with inhibited chemicals, conversion coated with an acid- chromate-fluoride-phosphate treatment, and painted with organic coating specified below). Apply where painting after installation is indicated (not work of this section).

Organic Coating: Air dried zinc chromate primer with not less than 2.0 mils dry film thickness.

PART 3 - EXECUTION

PREPARATION:

Coordinate setting drawings, diagrams, templates, instructions and directions for installation of anchorages which are to be embedded in concrete or masonry construction. Coordinate delivery of such items to the project site.

INSTALLATION:

Locate and place louver units plumb, level and in proper alignment with adjacent work.

Use concealed anchorages wherever possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weathertight connection.

Form tight joints with exposed connections accurately fitted together. Provide reveals and openings for sealants and joints fillers, as indicated.

LOUVERS AND VENTS

COMFORT SUITES

Repair finishes damaged by cutting, welding, soldering and grinding operations require for fitting and jointing. Restore finishes so there is no evidence for corrective work. Return items which cannot be refinished in field to shop, make required alterations, and refinish entire unit, or provide new units, at Contractor's option.

Protect galvanized and non-ferrous metal surfaces from corrosion or galvanic action by application of a heavy coating of bituminous paint on surfaces which will be in contact with concrete, masonry or dissimilar metals.

Provide concealed gaskets, flashings, joint fillers, and insulations, and install as work progresses to make installations weathertight.

Refer to Division-7 sections for sealants in connection with installations of louvers.

END OF SECTION 10200

COMFORT SUITES

SECTION 10305 PREFABRICATED FIREPLACE

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

DESCRIPTION OF WORK:

Work includes materials and installation of prefabricated metal fireplace, complete with components required for a complete and functional installation.

Refer to Division 15 sections for provisions as they apply to this work.

QUALITY ASSURANCE:

Code compliance: Provide prefabricated fireplace that conforms to applicable local and state codes.

UL Listing: Provide units that are listed by UL.

SUBMITTALS:

Product Data: Submit manufacturer's specifications, details and installation instructions for products used in the installation of the prefabricated metal fireplace.

PART 2 - PRODUCTS:

Available Manufacturers: Subject to compliance with requirements, provide products of the following:

Heat-N-Glow
Div. of Hearth Technologies
6665 West Highway 13
Savage, MN 55378
(612)890-8367

FABRICATION:

General: Product listed is that of Heat-N-Glow. Products of other manufacturers meeting design and performance intent may be bid, as judged solely by the Architect.

Fireplace: Provide electric fireplace model 32E-XL-Electrafire, 240 volts, 6.8 amps, 1630 watts.

Accessories: Provide other miscellaneous items necessary for a complete installation and to meet code requirements.

PART 3 - EXECUTION

INSTALLATION:

Install fireplace equipment in locations shown on drawings according to manufacturer's details and instructions.

Comply with all local and state codes in installation of fireplace.

Provide necessary electrical supply.

END OF SECTION 10305

COMFORT SUITES

SECTION 10350 - FLAGPOLES

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

DESCRIPTION OF WORK:

Section includes flagpoles where shown on Drawings, as specified herein, and as needed for a complete and proper installation.

QUALITY ASSURANCE:

Manufacturing Standards: Provide each flagpole as a complete unit produced by a single manufacturer, including fittings accessories, bases and anchorage devices.

Design Criteria: Provide flagpoles and installations constructed to withstand a 100 mph wind velocity unflagged, and a wind velocity of 100 mph when flying a flag 6' x 10'.

Pole Construction: Construct pole and ship to site in one piece if possible. If more than one piece is necessary, provide snug-fitting precision joints with self-aligning, internal splicing sleeve arrangement for weather-tight, hairline field joints.

SUBMITTALS:

Product Data: Submit manufacturer's technical data and installation instructions for each type of flagpole required.

Shop Drawings: Submit four (4) copies each of shop drawings of flagpoles and bases, showing general layout, jointing and complete anchoring and supporting systems.

DELIVERY, STORAGE AND HANDLING:

Spiral wrap flagpole with heavy Kraft paper or other protective wrapping, and prepare for shipment in hard fiber tubes or other protective container.

Deliver flagpoles and accessories completely identified for installation procedure. Handle carefully to avoid soiling or damage, and store flagpoles unwrapped to avoid staining from wrappings.

PART 2-PRODUCTS:

ACCEPTABLE MANUFACTURERS:

Manufacturer: Subject to compliance with requirements, provide products of one of the following:

Concord Industries, Inc.

FLAGPOLE TYPE:

Commercial Groundset Cone-Tapered Aluminum Flagpoles: Fabricate from seamless extruded tubing, complying with ASTM B 241, alloy 6063-T6, having a minimum wall thickness of .188", tensile strength not less than 30,000 psi and a yield point of 25,000 psi. Heat-treat and age-harden flagpoles after fabrication

COMFORT SUITES

Description: Exposed height: 40'
Overall Height: 44'
Butt Diameter: 8"
Top Diameter: 3.5"
Wall Thickness: .188"

FLAGPOLE MOUNTING:

Foundation Tube: Fabricated from 16 ga. Galvanized steel, with a steel base plate whose square dimension is at least the i.d. of the sleeve plus 4". A setting plate 6" square shall be securely welded to the ground spike at least 6" below the base plate. The ground spike shall be 3/4" diameter, not less than 18" long. Shaft foundation dimensions as per manufacturer's recommendation for specified flagpole.

Provide spun aluminum collar, Type FC-11, finished to match flagpole shaft. Diameter shall be at least 1" greater than diameter of sleeve.

SHAFT FINISH:

Aluminum: Deep Luster Finish. Fine, directional, mechanical satin polish (NAAMM-32), finished as follows:
Color anodized finish, AA M32-C12-A42, Color Duranodic #312 Med. Bronze.

FITTINGS:

Finial: 14 ga. Spun aluminum ball, gold anodized finish with flush seam sized to match but diameter of shaft.

Truck: Cast aluminum, double revolving, non-fouling, complete with 26 stainless steel ball bearings, and two 2-3/8" diameter cast nylon sheaves.

Halyards: Two sets of #10 white waterproof polypropylene, each equipped with two chrome swivel-snaps to secure the flag.

Cleats: Two 9" cast aluminum cleats, with stainless steel socket-head bolts included. Finish to match the shaft. Provide cleat covers with key-operated cylinder lock, finished to match shaft.

PART 3-EXECUTION:

INSTALLATION:

Excavation: Excavate for foundation concrete to neat clean lines in undisturbed soil. Provide forms where required due to unstable soil conditions. Remove wood, loose soil, rubbish and other foreign matter from excavation, and moisten earth before placing concrete.

Concrete: Provide concrete composed of Portland cement, coarse aggregate, fine aggregate and water, mixed in proportions to attain 28-day compressive strength of not less than 3000 psi. Use not less than 5 sacks of Portland cement, complying with ASTM C 150, per cubic yard of wet concrete. Place concrete immediately after mixing. Perform chuting to avoid segregation of mix. Compact concrete in place by use of vibrators to consolidate. Moisture-cure exposed concrete for not less than seven days, or use a non-staining curing compound in freezing weather. Finish trowel exposed concrete surfaces to smooth dense surface. Provide positive slope for water runoff to base perimeter.

Flagpole Installation: Install flagpole as indicated and in compliance with final shop drawings and manufacturer's instructions. Provide positive lightning ground for each flagpole with a heavy coat of bituminous paint.

END OF SECTION 10350

COMFORT SUITES

SECTION 10522 - FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

DESCRIPTION OF WORK:

Extent of fire extinguishers, cabinets and accessories is indicated on drawings.

Definition: "Fire extinguishers" as used in this section refers to units which can be hand-carried as opposed to those which are equipped with wheels or to fixed fire extinguishing systems.

Types of products required include:

- Fire extinguishers.
- Fire extinguisher cabinets.
- Mounting brackets.

Fixed fire protection systems are specified in Division-15 sections.

QUALITY ASSURANCE:

Single Source Responsibility: Obtain products in this section from one manufacturer.

Coordination: Verify that fire extinguisher cabinets are sized to accommodate fire extinguishers of type and capacity indicated which will be provided by Owner under separate contract.

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

FM Listed Products: Provide new portable fire extinguishers which are approved by Factory Mutual Research Corporation for type, rating and classification of extinguisher indicated and carry appropriate FM marking.

SUBMITTALS:

Product Data: Submit product data for each type of product included in this section. For fire extinguisher cabinets include roughing-in dimensions and details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type and materials, trim style and door construction, and panel style and materials.

Samples: Submit for verification purposes, samples of each required finish. Prepare samples on metal of same gage as used for actual production run. Where normal color variations are to be expected, include 2 or more units in each sample set showing limits of such variations.

COMFORT SUITES

For initial selection of colors and finishes, submit manufacturer's color cards showing full range of standard colors available.

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURERS:

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated in the work include, but are not limited to, the following:

J. L. Industries.
Larsen's Mfg. Co.
Johnson-Lee, Division of W.F. Lee Corp.
Muckle Manufacturing, Division of Technico, Inc.
Watrous, Inc.
Kidde- The Fire Extinguisher Co.

FIRE EXTINGUISHERS:

General: Provide fire extinguishers for each extinguisher cabinet and other locations indicated, in colors and finishes selected by Architect from manufacturer's standard which comply with requirements of governing authorities.

Abbreviations indicated below to identify extinguisher types relate to UL classification and rating system and not, necessarily, to type and amount of extinguishing material contained in extinguisher.

Multi-Purpose Dry Chemical Type: UL-rated 4-A:60-B: C 10 lb. nominal capacity, in enameled steel container, for Class A, Class B and Class C fires.

MOUNTING BRACKETS:

Provide manufacturer's standard bracket designed to prevent accidental dislodgement of extinguisher, of sizes required for type and capacity of extinguisher indicated, in manufacturer's standard plated finish.

Provide brackets for extinguishers not located in cabinets.

FIRE EXTINGUISHER CABINETS:

General: Provide fire extinguisher cabinets where indicated, of suitable size for housing fire extinguishers of types and capacities indicated.

Construction: Manufacturer's standard enameled steel box, with trim, frame, door and hardware to suit cabinet type, trim style, and door style indicated. Weld all joints and grind smooth. Miter and weld perimeter door frames.

Cabinet Type: Suitable for mounting conditions indicated, of the following types:

Recessed: Cabinet box (tub) recessed in chase walls.

Trim Style: Fabricate trim in one piece with corners mitered, welded and ground smooth.

COMFORT SUITES

Exposed Trim: One-piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge (backbend) (at recessed cabinets).

Rolled-Edge Trim: Rounded edges with backbend depth as follows:

Depth: 5".

Trim Metal: Of same metal as door.

Door Material and Construction: Manufacturer's standard door construction, of material indicated, coordinated with cabinet types and trim styles selected.

Enameled Steel: Manufacturer's standard flush, hollow steel door construction with tubular stiles and rails.

Door Glazing: Clear float glass complying with FS DD-G-451, type I, class 1, quality q3.

Door Style: Manufacturer's standard design as indicated below and on drawing.

Full Glass Panel: Float glass, 1/8" thick.

Door Hardware: Provide manufacturer's standard door operating hardware of proper type for cabinet type, trim style, and door material and style indicated. Provide either lever handle with cam action latch, or door pull, exposed or concealed, and friction latch. Provide concealed or continuous type hinge permitting door to open 180°.

FACTORY FINISHING OF FIRE EXTINGUISHER CABINETS

General: Comply with NAAMM "Metal Finishes Manual" for finish designations and application recommendations except as otherwise indicated. Apply finishes in factory after products are assembled. Protect cabinets with plastic or paper covering, prior to shipment.

Painted Finishes: Provide painted finish to comply with requirements indicated below for extent, preparation and type:

Extent of Painted Finish: Apply painted finish to both concealed and exposed surfaces of cabinet components except where other than a painted finish is indicated.

Color: Provide color or color matches indicated, or, if not otherwise indicated, as selected by Architect from manufacturer's standard colors.

Preparation: Clean surfaces of dirt, grease, and loose rust or mill scale.

Baked Enamel Finish: Immediately after cleaning and pretreatment, apply cabinet manufacturer's standard baked enamel finish system to the following surfaces:

Interior of cabinet.

Field-Paintable Factory Finish: Immediately after cleaning and pretreatment, apply to surfaces indicated below, manufacturer's standard factory-applied paint system which is suitable, after deglossing, as an undercoat for field-applied paint system specified in Division-9 section "Painting":

Exterior of cabinet except for those surfaces indicated to receive another finish.

COMFORT SUITES

PART 3 - EXECUTION

INSTALLATION:

Install items included in this section in locations and at mounting heights indicated, or if not indicated, at heights to comply with applicable regulations of governing authorities.

Prepare recesses in walls for fire extinguisher cabinets as required by type and size of cabinet and style of trim and to comply with manufacturer's instructions.

Securely fasten mounting brackets and fire extinguisher cabinets to structure, square and plumb, to comply with manufacturer's instructions.

Where exact location of surface-mounted cabinets and bracket-mounted fire extinguishers is not indicated, locate as directed by Architect.

IDENTIFICATION:

Identify existence of fire extinguisher in cabinet with lettering spelling "FIRE EXTINGUISHER" applied to door by process indicated below. Provide lettering to comply with requirements indicated for letter style, color, size, spacing and location or, if not otherwise indicated, as selected by Architect from manufacturer's standard arrangements.

Application Process: Silk screen.

Identify bracket-mounted extinguishers with red letter decals spelling "FIRE EXTINGUISHER" applied to wall surface. Letter size, style and location as selected by Architect.

END OF SECTION 10522

COMFORT SUITES

SECTION 10800 - TOILET AND BATH ACCESSORIES

PART 1 - GENERAL

RELATED DOCUMENTS:

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

DESCRIPTION OF WORK:

Extent of each type of toilet accessory is indicated on drawings and schedules.

Types of toilet accessories required include the following:

- Toilet tissue dispenser.
- Towel dispenser unit.
- Grab bar(s).
- Shower curtain rod.
- Towel bar.
- Towel rack.
- Facial Tissue dispenser.
- Robe hook.
- Electric hand dryer
- Soap dispenser

QUALITY ASSURANCE:

Inserts and Anchorages: Furnish inserts and anchoring devices which must be set in concrete or built into masonry; coordinate delivery with other work to avoid delay.

Accessory Locations: Coordinate accessory locations with other work to avoid interference and to assure proper operation and servicing of accessory units.

Products: Provide products of same manufacturer for each type of accessory unit and for units exposed in same areas, unless otherwise acceptable to Architect.

SUBMITTALS:

Product Data: Submit manufacturer's technical data and installation instructions for each toilet accessory.

Setting Drawings: Provide setting drawings, templates, instructions, and directions for installation of anchorage devices and cut-out requirements in other work.

PART 2 - PRODUCTS:

ACCEPTABLE MANUFACTURERS:

Available Manufacturers: Subject to compliance with requirements, provide products of one of the following:

COMFORT SUITES

Bobrick Washroom Equipment, Inc.
Bradley Corporation.
The Broadway Collection.
Parker-Scovill.
Watrous, Inc.
Franklin Brass

MATERIALS, GENERAL:

Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 22 gage (.034") minimum, unless otherwise indicated.

Chromium Plating: Nickel and chromium electro-deposited on base metal, ASTM B 456, Type SC 2.

Galvanized Steel Mounting Devices: ASTM A 153, hot-dip galvanized after fabrication.

Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized steel where concealed.

TOILET TISSUE DISPENSERS:

Double-Roll Dispenser: Size to accommodate two separate rolls of core type tissue to 5" diameter.

Fabrication: Chrome-plated zinc alloy construction with non-controlled delivery; designed for surface mounting.

TOWEL DISPENSER UNITS:

Recessed Unit: Stainless steel unit fabricated for nominal 4" wall depth and with continuous seamless 1" wall flange. Provide towel compartment in upper portion of unit, designed to dispense not less than 400 C-fold or 700 multi-fold paper towels, panel door with continuous piano hinge and tumbler lock.

GRAB BARS:

Stainless Steel Type: Provide grab bars with wall thickness not less than 18 (.050") gage and as follows:

Mounting: Concealed, manufacturer's standard flanges and anchorages.

Clearance: 1-1/2" clearance between wall surface and inside face of bar.

Gripping Surfaces: Manufacturer's standard non-slip texture.

Heavy-Duty Size: Outside diameter of 1-1/2".

SHOWER AND BATH ACCESSORIES

Shower Curtain Rod, Curved, Heavy Duty: 1" O.D., 20-gauge stainless steel, bright finish equal to Franklin Brass #1905BS.

Towel Bars: 24" long satin finished Type 304 stainless steel tubular (3/4" square) bar and rectangular end brackets. Provide galvanized backplates for concealed mounting.

MISCELLANEOUS ACCESSORIES:

TOILET AND BATH ACCESSORIES

COMFORT SUITES

Facial Tissue Dispenser: Wall-mounted recessed unit with 22 gage stainless steel satin finished face plate with rolled rim on dispenser opening, corrosion resistant steel mounting cabinet; minimum capacity 200 tissues.

Robe Hook: Heavy-duty satin-finished stainless steel robe hook, rectangular wall bracket with backplate for concealed mounting.

FABRICATION:

General: Only an unobtrusive stamped logo of manufacturer, as approved by Architect, is permitted on exposed face of toilet or bath accessory units. On either interior surface not exposed to view or back surface, provide additional identification by means of either a printed, waterproof label or a stamped nameplate, indicating manufacturer's name and product model number.

Surface-Mounted Toilet Accessories, General: Except where otherwise indicated, fabricate units with tight seams and joints, exposed edges rolled. Hang doors or access panels with continuous stainless steel piano hinge. Provide concealed anchorage wherever possible.

Recessed Toilet Accessories, General: Except where otherwise indicated, fabricate units of all welded construction, without mitered corners. Hang doors or access panels with full-length stainless steel piano hinges. Provide anchorage which is fully concealed when unit is closed.

PART 3 - EXECUTION

INSTALLATION:

Install toilet accessory units in accordance with manufacturers' instructions, using fasteners which are appropriate to substrate and recommended by manufacturer of unit. Install units plumb and level, firmly anchored in locations and at heights indicated.

ADJUSTING AND CLEANING:

Adjust toilet accessories for proper operation and verify that mechanisms function smoothly. Replace damaged or defective items.

Clean and polish all exposed surfaces after removing temporary labels and protective coatings.

SCHEDULE OF TOILET ACCESSORIES:

See Drawings for Toilet Accessories Schedule Model numbers of toilet accessories listed on drawings are those of Franklin Brass or Bobrick.

END OF SECTION 10800

