

G E N E R A L

RELATED DOCUMENTS:

- 1. THE GENERAL REQUIREMENTS OF THE ARCHITECTURAL SPECIFICATIONS ARE PART OF THESE SPECIFICATIONS... WHERE AN INCONSISTENCY EXISTS BETWEEN THE WORDING OR INTENT, THIS SECTION SHALL TAKE PRECEDENCE...

DEFINITIONS:

- 1. TERMINOLOGY: AS DEFINED IN MSS SP-90, "GUIDELINES ON TERMINOLOGY FOR PIPE HANGERS AND SUPPORTS."
2. WATER DISTRIBUTION PIPING: INTERIOR DOMESTIC WATER PIPING.

PERFORMANCE REQUIREMENTS:

- 1. DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND COMPONENTS.
2. DESIGN EQUIPMENT SUPPORTS CAPABLE OF SUPPORTING COMBINED OPERATING WEIGHT OF SUPPORTED EQUIPMENT AND CONNECTED SYSTEMS AND COMPONENTS.

SUBMITTALS:

- 1. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE ARCHITECT/ENGINEER A COMPLETE LIST OF ITEMS TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT...

- A. DIMENSIONED SHOP DRAWINGS OF MATERIALS, FIXTURES AND EQUIPMENT.
B. DIMENSIONED SHOP DRAWINGS OF EQUIPMENT AND PIPING PLAN LAYOUT(S).
C. PRODUCT DATA.
D. FIELD-QUALITY CONTROL INSPECTION AND TEST REPORTS

QUALITY ASSURANCE:

- 1. WELDING: QUALITY PROCEDURES AND PERSONNEL ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE: SECTION IX.
2. FIRE TEST RESPONSE CHARACTERISTICS: INSULATION AND RELATED MATERIALS SHALL HAVE FIRE TEST RESPONSE CHARACTERISTICS INDICATED, AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM E 84...

- A. INSULATION INSTALLED INDOORS: FLAME SPREAD INDEX OF 25 OR LESS, AND SMOKE DEVELOPED INDEX OF 50 OR LESS.
B. INSULATION INSTALLED OUTDOORS: FLAME SPREAD INDEX OF 75 OR LESS, AND SMOKE DEVELOPED INDEX OF 150 OR LESS.

- 3. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.

ASME COMPLIANCE:

- A. ASME B31.9 FOR BUILDING SERVICES PIPING VALVES.
B. ASME COMPLIANCE FOR FERROUS VALVES: ASME B16.10 AND ASME B16.34 FOR DIMENSION AND DESIGN CRITERIA.

NSF COMPLIANCE:

- A. NSF 14, "PLASTIC PIPING SYSTEM COMPONENTS AND RELATED MATERIALS."
B. NSF 61, "DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS; SECTIONS 1 THROUGH 9."

- 6. ELECTRICAL COMPONENTS, DEVICES AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

REGULATORY REQUIREMENTS:

- A. COMPLY WITH PUBLIC LAW 101-336, "AMERICAN WITH DISABILITIES ACT," AND "UNIFORM FEDERAL ACCESSIBILITY STANDARDS."
B. COMPLY WITH PUBLIC LAW 102-486, "ENERGY POLICY ACT."

CONTRACT DOCUMENTS:

- 1. CONTRACTOR SHALL REVIEW CONTRACT DOCUMENTS AND BECOME FAMILIAR WITH THE SITE AND LOCAL CONDITIONS RELATING TO WORK AS DESCRIBED HEREIN PRIOR TO SUBMITTING BID PROPOSAL.
2. THE DRAWINGS INDICATE THE GENERAL LAYOUT OF THE VARIOUS SYSTEM(S) AND EQUIPMENT. THE LAYOUT OF THE SYSTEM(S) EQUIPMENT, ACCESSORIES AND OTHER COMPONENTS ARE DIAGRAMMATIC UNLESS SPECIFICALLY SHOWN OR DIMENSIONED.

SPECIFICATIONS AND DRAWINGS:

SPECIFICATIONS AND DRAWINGS ARE INTENDED TO BE COOPERATIVE. WHAT IS CALLED FOR BY EITHER SHALL BE AS BIDDING AS IF CALLED FOR BY BOTH. ANY WORK OR MATERIALS NOT SPECIFICALLY MENTIONED THOUGH REQUIRED TO MAKE THE JOB COMPLETE, SHALL BE FURNISHED AT THE CONTRACTOR'S EXPENSE.

VISITING THE SITE:

PRIOR TO SUBMITTING BID PROPOSAL, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND EXISTING CONDITIONS FOR DOING WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

PERMITS, FEES & INSPECTIONS:

- 1. CONTRACTOR SHALL PREPARE AND SUBMIT ALL DATA, DRAWINGS AND DETAILS REQUIRED, SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES, INSPECTIONS AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
2. CONTRACTOR SHALL PAY FOR ALL APPLICABLE FEES FOR TEST AND INSPECTIONS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.

LAWS AND ORDINANCES:

CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

TRADE JURISDICTION:

WHEN IT BECOMES NECESSARY FOR THE COMPLETE FULFILLMENT OF THIS WORK FOR THIS CONTRACTOR TO FURNISH LABOR OR MATERIALS OTHER THAN THAT WHICH IS GENERALLY ACCEPTED BY THIS TRADE OR BRANCH OF WORK, THE CONTRACTOR SHALL SUBLET SAME TO A CONTRACTOR ENGAGED IN THE TRADE OR BRANCH OF WORK INVOLVED.

REQUESTS FOR INFORMATION (RFI'S):

- 1. ALL REQUESTS FOR INFORMATION (RFI'S) SHALL BE SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
2. IF THERE IS NO CONSTRUCTION MANAGER OR GENERAL CONTRACTOR. SUBMIT RFI'S TO THE ARCHITECT/ENGINEER.

WORKMANSHIP:

ALL LABOR SHALL BE EXECUTED IN A NEAT, WORKMANLIKE MANNER AND SHALL BE PERFORMED BY PERSONS SKILLED IN THEIR RESPECTIVE TRADES. THE ARCHITECT/ENGINEER SHALL DECIDE ALL MATTERS PERTAINING TO THE QUALITY OF WORKMANSHIP AND MATERIALS.

COORDINATION OF WORK:

CONTRACTOR SHALL COORDINATE WITH OTHER CONSTRUCTION TO AVOID INTERFERENCE BEFORE STARTING ANY INSTALLATION. ANY NEGLECT BY THE CONTRACTOR TO COORDINATE WITH OTHER CONSTRUCTION SHALL BE MADE AT THE CONTRACTOR'S OWN EXPENSE.

OPERATING INSTRUCTIONS:

CONTRACTOR SHALL PREPARE A TYPEWRITTEN LIST IN DUPLICATE, OF INSTRUCTIONS OF THE OPERATION OF ALL EQUIPMENT AND SHALL INSTRUCT IN ITS OPERATION. ALL VALVES AND EQUIPMENT SHALL BE MARKED WITH A METAL TAG AND A TYPEWRITTEN SCHEDULE SHALL BE GIVEN TO THE OWNER.

GUARANTEE:

CONTRACTOR SHALL GUARANTEE WORK TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL CERTIFICATE. ANY REPAIRS OR REPLACEMENT DURING THIS PERIOD SHALL BE MADE WITHOUT COST TO THE OWNER, UPON OWNER'S REQUEST.

P R O D U C T S

MATERIALS:

- 1. ALL MATERIALS SHALL BE NEW AND OF FIRST CLASS PRODUCTS OF MANUFACTURERS SPECIFIED HEREIN AND OR AS APPROVED BY THE ARCHITECT/ENGINEER OF RECORD.
2. THE DESIGN INTENT, SPACE REQUIREMENTS, PERFORMANCE, ETC., ARE BASED ON PRODUCTS OF THE MANUFACTURER(S) INDICATED IN THESE SPECIFICATIONS.

PLUMBING FIXTURES:

- 1. PLUMBING FIXTURES AND TRIMMINGS HAVE BEEN SELECTED AS A BASE FOR THIS INSTALLATION, EXCEPT WHERE OTHERWISE SPECIFIED, BUT OTHER MAKES WHICH ARE EQUAL AND APPROVED MAY BE USED.
2. INSTALL/PROVIDE FLUSH VALVES AND/OR FLUSH TANKS WITH HANDLE ON LEFT SIDE OF FIXTURE, EXCEPT IN ACCESSIBLE (ADA) STALLS WHERE HANDLES SHALL BE LOCATED ON THE WIDE SIDE OF STALL.

HANGERS AND SUPPORTS:

- 1. STEEL PIPE HANGERS AND SUPPORTS: MSS SP-58, TYPES 1 THROUGH 58, FACTORY-FABRICATED COMPONENTS. REFER TO EXECUTION SECTION "HANGER AND SUPPORT APPLICATIONS."
2. TRAPEZE PIPE HANGERS: MSS SP-69, TYPE 69, SHOP OR FIELD FABRICATED PIPE-SUPPORT ASSEMBLY MADE FROM STRUCTURAL STEEL SHAPES WITH MSS-SP-58 HANGER RODS, NUTS, SADDLES, AND U-BOLTS.

- 1. METAL FRAMING SYSTEMS: MFMA-3, SHOP OR FIELD FABRICATED PIPE SUPPORT ASSEMBLY MADE OF STEEL CHANNELS AND OTHER COMPONENTS.
2. THERMAL HANGER SHIELD INSERTS: 100-PSIG MINIMUM, COMPRESSIVE STRENGTH INSULATION INSERT ENCASED IN SHEET METAL SHIELD.
3. FASTENER SYSTEMS:
A. POWDER ACTUATED FASTENERS: THREADED STEEL STUD, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH PULLOUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.

INSULATION:

- 1. THERMAL INSULATION MATERIALS SHALL MEET THE PROPERTY REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS AS APPLICABLE TO THE SPECIFIC PRODUCT OR END USE:
A. ASTM C547, ASTM C585, AND ASTM C1136.
2. INSULATION MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF ASHRAE 90.1 (LATEST EDITION).

Table with 2 columns: PIPE TYPE (INCHES), INSULATION THICKNESS (INCHES). Includes rows for DOMESTIC COLD WATER and DOMESTIC HOT WATER in various pipe sizes.

- 4. INSULATION SHALL BE FIBERGLASS PIPE INSULATION, ONE-PIECE, HINGED SECTION, WITH FACTORY APPLIED WHITE POLYMER FACING, TWO-COMPONENT ADHESIVE CLOSURE SYSTEM, AND MATCHING PRESURE SENSITIVE TAPE.
5. MOLDED CLOSED CELL POLYETHYLENE FOAM INSULATION IS NOT ALLOWED OR APPROVED.

E X E C U T I O N

SCOPE OF WORK:

- 1. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, FACILITIES, TRANSPORTATION, FEES AND SERVICES NECESSARY FOR A COMPLETE PLUMBING SYSTEM(S) AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
2. IT IS THE DECLARED AND ACKNOWLEDGED INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE PLUMBING SYSTEM(S), INCLUSIVE OF ALL REQUIRED PARTS AND ACCESSORIES COMPLETE AND READY FOR USE AS DESCRIBED, BUT NOT LIMITED TO THE FOLLOWING:

SUBMITTALS AND SHOP DRAWINGS:

- 1. SHOP DRAWING LAYOUT SUBMITTAL(S) SHALL BE A MINIMUM OF 1/8 INCH PER FOOT SCALE, SHOWING ALL PIPING TO BE INSTALLED.
2. EQUIPMENT, FIXTURES AND OTHER RELATED APPURTENANCES SHALL BE SUBMITTED IN BOUNDED BOOKLETS. ALL DATA MUST BE CLEARLY LEGIBLE.
3. CONTRACTOR SHALL SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES, SHOP DRAWINGS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.

- A. CERTIFICATION FROM CONTRACTOR THAT ALL EQUIPMENT AND SYSTEM(S) HAVE BEEN PROPERLY INSTALLED, ADJUSTED AND TESTED.
B. CERTIFICATION FROM RESPECTIVE MANUFACTURER(S) AUTHORIZED REPRESENTATIVE THAT EQUIPMENT AND SYSTEM(S) HAVE BEEN PROPERLY INSTALLED, ADJUSTED AND TESTED.

INSPECTIONS AND TESTS:

- 1. TESTING SHALL BE DONE IN THE PRESENCE OF GOVERNING AUTHORITY AND OWNER'S REPRESENTATIVE. PROVIDE FIVE (5) DAYS NOTICE TO THE OWNER, ARCHITECT OF RECORD AND GOVERNING AUTHORITY.
2. ROUGHED-IN PLUMBING: THE DRAINAGE AND VENT PIPING SYSTEMS SHALL BE TESTED UPON COMPLETION OF ROUGHED-IN PIPING INSTALLATION.
3. WATER TEST: WATER TEST SHALL BE APPLIED TO THE DRAINAGE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS AFTER PIPING HAS BEEN ROUGHED-IN.

DISINFECTION OF POTABLE WATER SYSTEM:

- 1. SYSTEM (OR PART THEREOF) SHALL BE FILLED WITH A CHLORINE SOLUTION CONTAINING AT 50 PARTS PER MILLION OF CHLORINE, VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS OR FILLED WITH A CHLORINE SOLUTION CONTAINING 200 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR THREE (3) HOURS.
2. AFTER REQUIRED (STANDING) TIME, SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL CHLORINE LEVEL IS WITHIN ACCEPTABLE LIMITS FOR POTABLE WATER.

FLUSHING:

- 1. CHLORINATED WATER SUPPLY: IF WATER SUPPLY SERVING SYSTEM IS CHLORINATED FROM COMMUNITY WATER SYSTEM, SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL NO DIRTY WATER APPEARS AT THE POINT OF OUTLET.
2. NON-CHLORINATED WATER SUPPLY: WATER SUPPLY SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL NO DIRTY WATER APPEARS AT THE POINT OF OUTLET.

PLUMBING GENERAL NOTES

- 1. PLUMBING GENERAL NOTES ON THESE DRAWINGS ARE A PART OF THE PLUMBING SPECIFICATIONS TO THE SAME EXTENT AS IF WRITTEN HEREIN FULL.
2. ALL WORK AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF LOCAL AND STATE GOVERNING CODES, ORDINANCES AND HEALTH DEPARTMENT REGULATIONS.
3. THE INTENT OF THESE DRAWINGS IS TO FURNISH THE OWNER WITH A PLUMBING INSTALLATION READY FOR USE AND COMPLETE IN EVERY ASPECT.

PLUMBING PRODUCTS AND MATERIALS

FLOOR DRAINS:

- 1. FD-1 (FINISHED AREAS): LAQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, TRAP PRIMER BOSS, CAST IRON MEMBRANE CLAMP RING WITH PRIMARY AND SECONDARY WEEPHOLES FOR WATERPROOFING MEMBRANE, STANDARD HEAVY DUTY POLISHED STAINLESS STEEL STRAINER, 6 INCH DIAMETER STRAINER, 6 INCH BY 6 INCH SQUARE STRAINER IN TILED AREAS.
A. MANUFACTURER: MIFAB SERIES F1000-3
B. MANUFACTURER: MIFAB SERIES F1000-S (TILED AREAS).

FLOOR SINKS

- 1. FS-1: (KITCHEN AREAS) 12 INCH BY 12 INCH BY 6 INCH DEEP SANITARY FLOOR AREA AND INDIRECT WASTE DRAIN, TYPE 304 (CF8) STAINLESS STEEL, STAINLESS STEEL SECURED RIM AND EXTRA HEAVY DUTY 1/2" GRATE, ALLEN KEY VANDAL PROOF STAINLESS STEEL SCREWS, STAINLESS STEEL ANCHOR FLANGE WITH WEEPHOLES, STAINLESS STEEL ANTI-SPLASH DOME STRAINER.
A. MANUFACTURER: MIFAB SERIES FS1920-FL.

CLEANOUTS:

- 1. FCO (FINISHED AREAS): ADJUSTABLE FLOOR CLEANOUT, LAQUERED CAST IRON BODY, SECONDARY CLOSURE PLUG, STAINLESS STEEL COMBINED ROUND (SQUARE IN TILED AREAS) COVER AND PLUG TOP ASSEMBLY, STAINLESS STEEL VANDAL RESISTANT SECURITY SCREWS.
A. MANUFACTURER: MIFAB SERIES C1220-3-6-34B
B. MANUFACTURER: MIFAB SERIES C1220-S-6-34B (TILED AREAS).

VALVES:

- 1. BUTTERFLY VALVE: (2-1/2 INCH TO 3 INCH) HEAVY DUTY CONSTRUCTION, PHASED BACKED LOW FRICTION CARTRIDGE LINER, BUBBLE TIGHT SEAL, EXTENDED NECK, STREAMLINE DISC, WAFER BODY, BI-DIRECTIONAL SERVICE, GEAR OPERATORS, 100 PERCENT FACTORY TESTED.
A. MANUFACTURER: HAMMOND VALVE SERIES 6100.
2. BALL VALVE (1/2 INCH TO 2-1/2 INCH) FULL PORT OPENING, 2 PIECE BRASS BODY, BLOW OUT PROOF STEM, TFE SEATS, TFE WITH ADJUSTABLE STEM PACKING GLAND, FREE-FLOATING CHROME PLATED BRASS BALL, 100 PERCENT FACTORY TESTED.
A. MANUFACTURER: HAMMOND VALVE SERVICE 8300.

BACKFLOW DEVICES:

REDUCED PRESSURE PRINCIPLE ASSEMBLY

- 1. RPZA: (1/4 INCH TO 1/2 INCH) REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY, ASSE LISTED 1013, RATED TO 180° FAHRENHIT, FULL PORT BALL VALVES, BRONZE (ASTM B584) MAIN BODY AND ACCESS COVERS, NORYL (NSF LISTED) SEAT RING AND ALL INTERNAL POLYMERS, SILICONE SEAT DISC ELASTOMERS. THE CHECKS SHALL BE ORIENTED AT A 45° ANGLE UPWARD AND ACCESSIBLE FOR MAINTENANCE WITHOUT REMOVING THE RELIEF VALVE OR THE ENTIRE DEVICE FROM THE LINE.
A. MANUFACTURER: WILKINS MODEL NUMBER 975XL
B. AIR GAP FITTING: WILKINS MODEL NUMBER AG.

PIPING MATERIALS:

DOMESTIC WATER SERVICE

BELOW GRADE:

SOIL, WASTE AND VENT PIPING BELOW GRADE:

- 1. UNDERGROUND SOIL, WASTE AND VENT PIPING: CAST IRON, SERVICE CLASS, BELL-AND-SPIGOT ENDS FOR GASKETED JOINTS.
A. PIPE AND FITTINGS: ASTM A74.
B. GASKETS: ASTM C564, RUBBER.
2. UNDERGROUND SOIL, WASTE AND VENT PIPING (BELOW FOUNDATION WALLS: DUCTILE IRON GRAVITY SEWER PIPE, BELL-AND-SPIGOT ENDS FOR PUSH-ON JOINTS.
A. PIPE: ASTM A746, FOR PUSH-ON JOINTS.
B. STANDARD FITTINGS: AWWA C110, DUCTILE IRON GRAY IRON, FOR PUSH-ON JOINTS.

ABOVE GRADE:

- 1. ABOVEGROUND SOIL, WASTE AND VENT PIPING: CAST IRON, SERVICE CLASS, BELL-AND-SPIGOT ENDS.
A. PIPE AND FITTINGS: ASTM A74 SERVICE CLASS.
B. GASKETS: ASTM C564, RUBBER.
C. CALKING MATERIALS: ASTM B29, PURE LEAD AND OAKUM OR HEMP FIBER.
2. ABOVEGROUND SOIL, WASTE AND VENT PIPING: CAST IRON, HUBLESS.
A. PIPE AND FITTINGS: ASTM A888 OR CISPI 301.
B. SOLVENT STACK FITTINGS: ASME B16.45 OR ASSE 1043, HUBLESS, CAST IRON, AERATOR AND DEAERATOR DRAINAGE FITTINGS.

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Table with 2 columns: #, DATE. Includes rows for REVISIONS, 1/8/10, 1/10/10, 1/18/10, ISSUED FOR BID, ISSUED FOR PERMIT.

PROJECT NUMBER: 09-116, DRAWN BY: JEM, CHECKED BY: JKN

SHEET TITLE: PLUMBING SPECS.

SHEET NUMBER: P1.0