

Mechanical Addendum M-002

Attention All Bidders

Date: June 25, 2026
Project: Ontario Aboriginal Housing Services
Location: 321 John Street, Cobourg, Ontario
IVES Project: 22071

This Addendum becomes part of the Bid Documents and will be considered to have been included in the Tender. Additions, deletions and revisions shall be incorporated in the Bid Documents as hereinafter described.

1. Mechanical Specifications.
 - 1.1. Refer to Specification 22 42 13 Plumbing Fixtures & Trim – (Issued)
 - 1.1.1. Additional specifications for Plumbing Fixtures & Trim.
2. Contractor Questions:
 - 2.1. Question 1: Could you please consider and approve the items listed below as equal to those specified for the OAHS 321 JohnSt, Cobourg Tender

Section	Tag	Product	Manufacturer
23.81.29	CU-1,2,3,4	Variable Refrigerant Flow (VRF) Equipment	MIDEA
23.81.29	FCU-01 to FCU-310	Variable Refrigerant Flow (VRF) Equipment	MIDEA
23.81.29	BC-1,2,3	Variable Refrigerant Flow (VRF) Equipment	MIDEA

- 2.1.1. Answer 1: Only Mitsubishi and Daikin will be considered for this project.
 - 2.2. Question 2: MECHANICAL SPECIFICATIONS table of contents notes Section 22 42 13 PLUMBING FIXTURES AND TRIM (To be Issued in Addendum M-001) – M-001 does not provide clarification to plumbing fixture specifications please confirm if this will be addressed in subsequent mechanical Addendum M-002
 - 2.2.1. Answer 2: Attached to this Addendum M-002.
 - 2.3. Question 3: Is Uponor PEX piping acceptable alternate for in suite domestic supply piping?
 - 2.3.1. Answer 3: PEX will not be acceptable.

Best regards,



Alexander Gibbons, EIT
Mechanical Designer
InVision Engineering Solutions Inc.

1 GENERAL

1.1 SUMMARY

1.1.1 Section includes:

- .1 The supply and installation of washroom fixtures and trim.

1.1.2 Products installed but not supplied under this section as indicated elsewhere in the contract:

- .1 Install rough-in for equipment supplied by others, complete with valves on hot and cold water supplies, waste and vent.
- .2 Equipment installed by others.
 - .1 Connect with unions.
- .3 Equipment not installed.
 - .1 Capped for future connection by others.

1.2 RELATED SECTIONS

- .1 Section 22 05 00 – Common Work Results for Mechanical
- .2 Refer to Section 22 05 00 – Common Work Results for Mechanical table of Relevant Division References for the following related sections:
 - .1 “Submittal Procedures.”
 - .2 “Construction/Demolition Waste Management and Disposal.”
 - .3 “Quality Control”
 - .4 “Closeout Submittals”
 - .5 “Common Product Requirements.”
 - .6 “Cleaning.”

1.3 REFERENCES

- 1.3.1 American National Standards Institute (ANSI)
 - .1 ANSI 112-19.2, Ceramic Plumbing Fixtures.
- 1.3.2 American National Standards Institute/national Sanitation Foundation (ANSI/NSF)
 - .1 ANSI/NSF 61, Drinking Water System Components.
- 1.3.3 Canadian Standards Association (CSA)
 - .1 CAN/CSA-B45 Series, Plumbing Fixtures.
 - .2 CAN/CSA-B125, Plumbing Fittings.
 - .3 CAN/CSA-B651, Barrier-Free Design.
- 1.3.4 Provincial Accessibility Act Regulations.

1.4 SUBMITTALS

- 1.4.1 Submittals in accordance with “Submittal Procedures.”
- 1.4.2 Product Data: Submit WHMIS MSDS – Material Safety Data Sheets.
- 1.4.3 Submit shop drawings and product data in accordance with “Submittal Procedures.”
- 1.4.4 Indicate fixtures and trim:
 - .1 Dimensions construction details, roughing-in dimensions.
 - .2 Factory-set water consumption per flush at recommended pressure.
 - .3 For water closets, urinals: minimum pressure required for flushing.
- 1.4.5 Closeout Submittals:
 - .1 Provide maintenance data including monitoring requirements for incorporation into manuals specified in “Closeout Submittals.”
 - .2 Include:
 - .1 Description of fixtures and trim, giving manufacturer’s name, type, model, year, capacity.
 - .2 Details of operation, servicing, maintenance.
 - .3 List of recommended spare parts.

1.5 DELIVERY STORAGE AND DISPOSAL

- 1.5.1 Waste Management and Disposal:
 - .1 Separate waste materials for reuse and recycling in accordance with “Construction/Demolition Waste Management and Disposal.”
 - .2 Collect and separate for disposal, paper, plastic, polystyrene, corrugated cardboard, packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
 - .3 Fold up metal and plastic banding, flatten and place in designated area for recycling.

1.6 WARRANTY

- 1.6.1 Provide a written guarantee, signed and issued in the name of the owner, against defective materials and workmanship for a period of one (1) year from the date of Substantial Completion.

2 PRODUCTS

2.1 GENERAL

- 2.1.1 Fixtures: manufacture in accordance with CAN/CSA-B45 series.

- 2.1.2 Trim, fittings: manufacture in accordance with CAN/CSA-B125.
- 2.1.3 Unless otherwise noted exposed plumbing brass to be chrome plated.
- 2.1.4 Number, locations: Architectural drawings to govern.
- 2.1.5 Fixtures to be product of one manufacturer and of same type.
- 2.1.6 Trim to be product of one manufacturer and of same type.
- 2.1.7 Provide cast brass chrome plated escutcheon plates with set screws on all water and drain pipes where such lines pass through, floors, walls and partitions.
- 2.1.8 Plumbing fixtures shall be as indicated and specified with all required supports, accessories, wastes, vent and water connections as required to make the fixture complete.

2.2 WATERCLOSETS

2.2.1 Water Closet Type WC-1: Floor Mounted Water Closet with Flush Tank

- .1 Tank type Toilet, Floor mounted with floor outlet, High Efficiency HET 4.8 LPF (1.28 GPF), White finish Vitreous china, Elongated bowl, Right Height® rim at 419 mm (16-1/2"), Minimum 305 mm (12") rough-in from wall to the center of waste outlet, Siphon jet flush action, Manual, Polished chrome left-hand trip lever, Tank not lined, Without tank cover locking device, Gravity-assisted flush, 51 mm (2") flush valve, Tank coupling components, 229 x 203 mm (9" x 8") water surface area, 51 mm (2") trapway, Two (2) colour-matched bolt hole covers, 487 mm (19-3/16") wide, 756 mm (29-3/4") from finished wall, 784 mm (30-7/8") high. Compliances: ASME A112.19.2 compliant, CSA B45.1 compliant.
- .2 Centoco 820STSFE-001 Seat - FAST-N-LOCK, For elongated bowl, Open front, Heavy duty, For commercial applications, Polypropylene, Toilet seat, With seat cover, Plastic commercial check hinges, and Stainless steel hinge pin, Specified in White finish, FAST-N-LOCK mounting system takes the guess work out when tightening the hardware. The specially designed fasteners in click" when the appropriate torque is reached. The bolt and nut material shall be stainless steel, Dimensions: 25 mm (1") high, 470 mm (18-1/2") long, 362 mm (14-1/4") wide
- .3 McGuire LFBV172 Supply - Lead Free, 127 mm (5") length, Convertible quarter-turn supply, Chrome-plated finish, Two 13 mm (1/2") copper sweat x 10 mm (3/8") outer Ø brass ball valve, 304 mm (12") copper flexible risers, Convertible loose key handle, Toilet, 2 deep bell flange
- .4 Standard of Acceptance: American Standard Colony 221AA104.020 7381004-0020A, Kohler.

- 2.2.2 Water Closet Type WC-2 (Barrier Free): Floor Mounted Barrier Free Water Closet with Flush Tank
- .1 Tank type Toilet, Floor mounted with floor outlet, High Efficiency HET 4.8 LPF (1.28 GPF), White finish Vitreous china, Elongated bowl, Right Height® rim at 419 mm (16-1/2"), Minimum 305 mm (12") rough-in from wall to the center of waste outlet, Siphon jet flush action, Manual, Polished chrome left-hand trip lever, Tank not lined, Without tank cover locking device, Gravity-assisted flush, 51 mm (2") flush valve, Tank coupling components, 229 x 203 mm (9" x 8") water surface area, 51 mm (2") trapway, Two (2) colour-matched bolt hole covers, 487 mm (19-3/16") wide, 756 mm (29-3/4") from finished wall, 784 mm (30-7/8") high. Compliances: ASME A112.19.2 compliant, CSA B45.1 compliant.
 - .2 Centoco 820STSFE-001 Seat - FAST-N-LOCK, For elongated bowl, Open front, Heavy duty, For commercial applications, Polypropylene, Toilet seat, With seat cover, Plastic commercial check hinges, and Stainless steel hinge pin, Specified in White finish, FAST-N-LOCK mounting system takes the guess work out when tightening the hardware. The specially designed fasteners in click" when the appropriate torque is reached. The bolt and nut material shall be stainless steel, Dimensions: 25 mm (1") high, 470 mm (18-1/2") long, 362 mm (14-1/4") wide
 - .3 McGuire LFBV172 Supply - Lead Free, 127 mm (5") length, Convertible quarter-turn supply, Chrome-plated finish, Two 13 mm (1/2") copper sweat x 10 mm (3/8") outer Ø brass ball valve, 304 mm (12") copper flexible risers, Convertible loose key handle, Toilet, 2 deep bell flange
 - .4 Standard of Acceptance: American Standard Colony 221AA104.020 7381004-0020A, Kohler.

2.3 LAVATORYS

2.3.1 Basin Type L-1: Wall Hung with Manual Faucet

- .1 Wall-hung Lavatory, Vitreous china, EverClean® antimicrobial surface, White finish, 102 mm (4") centerset, Rear overflow, Faucet ledge with recessed self-draining deck, For concealed arm or wall support, Vitreous china shroud/knee contact guard with EverClean (0059020EC), Soap dispenser, When installed with a below deck electronics faucet which has the control box, the accessories will not fit under the shroud and will need to be installed outside the shroud, Overall Dimensions: 545 mm (21-7/16") long, 540 mm (21-1/4") wide, 152 mm (6") high, Bowl Dimensions: 394 mm (15-1/2") long, 540 mm (21-1/4") wide, 127 mm (5") deep.

- .2 Moen M-Dura 8414 Single Lever Lavatory Faucet: Heavy-duty low lead cast brass 4" centre set deck mount lavatory faucet with 3-1/2" single lever handle, integral adjustable temperature limit stop, ceramic disc cartridge and 1.9l/m (0.5gpm) vandal resistant aerator.
- .3 Moen 104424 Mechanical Mixing Valve: Low lead brass mechanical mixing valve with integral in-line check valves with 3/8" compression connections. Temperature setting by adjusting tab position to desired temperature. Certified NSF 61/354. Mechanical Contractor shall locate mixing valve within recessed lockable cabinet below the sink and not install exposed.
- .4 McGuire 155A Fixture Drain - Straight drain, Cast brass, Chrome-plated finish, Open grid PO plug, 7/32" (5.5 mm) Ø holes size, 17 gauge 32 mm (1-1/4") Ø tailpiece diameter, 17 gauge 17152 mm (6") long, Brass locknut, Heavy rubber basin washer Fiber friction washer, ASME A112.18.2 CSA B125.2, CSA compliant.
- .5 McGuire LFH165LKXFR15 Supply - Lead Free, Heavy brass cross handle, Chrome-plated finish, Convertible loose key handle, Lavatory supply.
- .6 McGuire 8872C P-Trap - Heavy cast brass, Adjustable p-trap, 292 mm (11-1/2") distance, With cleanout plug, Steel shallow flange, Neoprene gasket, Slipnuts, 17 gauge seamless tubular wall bend, ASME A112.18.2 CSA B125.2, CSA compliant.
- .7 Watts WCA-411-CA-481 Carrier - Single floor-mounted lavatory carrier with concealed arms, Wall mounted steel support plate with plated hardware, Plated hardware, required minimum space is 3-5/8" (92 mm)
- .8 Standard of Acceptance: American Standard 0954004EC.020 0059020EC.020 Basin - Murro, Kohler.

2.3.2 Basin Type L-2 (Barrier Free): Wall Hung Barrier Free Design with Manual Faucet

- .1 Wall-hung Lavatory, Vitreous china, EverClean® antimicrobial surface, White finish, 102 mm (4") centerset, Rear overflow, Faucet ledge with recessed self-draining deck, For concealed arm or wall support, Vitreous china shroud/knee contact guard with EverClean (0059020EC), Soap dispenser, When installed with a below deck electronics faucet which has the control box, the accessories will not fit under the shroud and will need to be installed outside the shroud, Overall Dimensions: 545 mm (21-7/16") long, 540 mm (21-1/4") wide, 152 mm (6") high, Bowl Dimensions: 394 mm (15-1/2") long, 540 mm (21-1/4") wide, 127 mm (5") deep.
- .2 Moen M-Dura 8414 Single Lever Lavatory Faucet: Heavy-duty low lead cast brass 4" centre set deck mount lavatory faucet with 3-1/2" single lever handle, integral adjustable temperature limit stop, ceramic disc cartridge and 1.9l/m (0.5gpm) vandal resistant aerator.

- .3 Moen 104424 Mechanical Mixing Valve: Low lead brass mechanical mixing valve with integral in-line check valves with 3/8" compression connections. Temperature setting by adjusting tab position to desired temperature. Certified NSF 61/354. Mechanical Contractor shall locate mixing valve within recessed lockable cabinet below the sink and not install exposed.
- .4 McGuire 155A Fixture Drain - Straight drain, Cast brass, Chrome-plated finish, Open grid PO plug, 7/32" (5.5 mm) Ø holes size, 17 gauge 32 mm (1-1/4") Ø tailpiece diameter, 17 gauge 17152 mm (6") long, Brass locknut, Heavy rubber basin washer Fiber friction washer, ASME A112.18.2 CSA B125.2, CSA compliant.
- .5 McGuire LFH165LKXFR15 Supply - Lead Free, Heavy brass cross handle, Chrome-plated finish, Convertible loose key handle, Lavatory supply.
- .6 McGuire 8872C P-Trap - Heavy cast brass, Adjustable p-trap, 292 mm (11-1/2") distance, With cleanout plug, Steel shallow flange, Neoprene gasket, Slipnuts, 17 gauge seamless tubular wall bend, ASME A112.18.2 CSA B125.2, CSA compliant.
- .7 Watts WCA-411-CA-481 Carrier - Single floor-mounted lavatory carrier with concealed arms, Wall mounted steel support plate with plated hardware, Plated hardware, required minimum space is 3-5/8" (92 mm)
- .8 Standard of Acceptance: American Standard 0954004EC.020 0059020EC.020 Basin - Murro, Kohler.

2.4 STAINLESS STEEL SINKS

2.4.1 Kitchen Sink S-1: Double Compartment Kitchen Sink with Manual Faucet

- .1 Double compartment sink, 203 mm (8") centerset, Commercial sinks, with overall dimension 794 mm (31-1/4") long, 521 mm (20-1/2") wide, 152 mm (6") high, constructed from 18 gauge Type 304 Stainless steel, Left bowl is 356 mm (14") long and right bowl is 356 mm (14") long, Left bowl is 406 mm (16") wide and right bowl is 406 mm (16") wide, Left bowl is 127 mm (5") deep and right bowl is 127 mm (5") deep, Polished to #4 satin finish, Factory installed EZ TORQUE™ fasteners, Factory applied rim seal, Center back waste location, 38 mm (1-1/2") (DN38) brass tailpiece, 89 mm (3-1/2") crumb cup strainer, waste fitting included, Undercoated to reduce condensation and resonance, Codes and Compliances: ANSI A117.1 compliant, ASME A112.19.3 compliant, CSA B45.4 compliant.
- .2 Moen M-Dura 8289 8" Deck Mounted Gooseneck Faucet: Heavy duty low lead cast brass 8" deck-mount faucet with 4" single level with integral adjustable temperature limit stop, ceramic disc cartridge and 5.7gpm (1.5gpm) vandal resistant aerator. 9" spout reach with flexible supply lines.

- .3 Moen 104424 Mechanical Mixing Valve: Low lead brass mechanical mixing valve with integral in-line check valves with 3/8" compression connections. Temperature setting by adjusting tab position to desired temperature. Certified NSF 61/354. Mechanical Contractor shall locate mixing valve within recessed lockable cabinet below the sink and not install exposed.
- .4 McGuire LFCK170 Supply - Lead Free, Sweat to compression, Integral check supply kit w/5" sweat extension, Chrome-plated finish, 1/2" Sweat w/5" Sweat extension x 3/8" O.D, 305 mm (12") chrome-plated risers, Wheel handle, Faucet, Deep bell wall flange.
- .5 McGuire 8912CB P-Trap - Heavy cast brass, Adjustable p-trap, 292 mm (11-1/2") length, With cleanout plug, Steel box flange, Neoprene gasket, Seamless tubular brass bend, Slipnuts.
- .6 Standard of Acceptance: Franke Commercial ALBD6406P-1-3 Sink, Kindred.

2.4.2 Kitchen Sink S-2 (Barrier Free): Double Compartment Kitchen Sink with Manual Faucet

- .1 Double compartment sink, 203 mm (8") centerset, Commercial sinks, with overall dimension 794 mm (31-1/4") long, 521 mm (20-1/2") wide, 152 mm (6") high, constructed from 18 gauge Type 304 Stainless steel, Left bowl is 356 mm (14") long and right bowl is 356 mm (14") long, Left bowl is 406 mm (16") wide and right bowl is 406 mm (16") wide, Left bowl is 127 mm (5") deep and right bowl is 127 mm (5") deep, Polished to #4 satin finish, Factory installed EZ TORQUE™ fasteners, Factory applied rim seal, Center back waste location, 38 mm (1-1/2") (DN38) brass tailpiece, 89 mm (3-1/2") crumb cup strainer, waste fitting included, Undercoated to reduce condensation and resonance, Codes and Compliances: ANSI A117.1 compliant, ASME A112.19.3 compliant, CSA B45.4 compliant.
- .2 Moen M-Dura 8289 8" Deck Mounted Gooseneck Faucet: Heavy duty low lead cast brass 8" deck-mount faucet with 4" single level with integral adjustable temperature limit stop, ceramic disc cartridge and 5.7gpm (1.5gpm) vandal resistant aerator. 9" spout reach with flexible supply lines.
- .3 Moen 104424 Mechanical Mixing Valve: Low lead brass mechanical mixing valve with integral in-line check valves with 3/8" compression connections. Temperature setting by adjusting tab position to desired temperature. Certified NSF 61/354. Mechanical Contractor shall locate mixing valve within recessed lockable cabinet below the sink and not install exposed.
- .4 McGuire LFCK170 Supply - Lead Free, Sweat to compression, Integral check supply kit w/5" sweat extension, Chrome-plated finish, 1/2" Sweat w/5" Sweat extension x 3/8" O.D, 305 mm (12") chrome-plated risers, Wheel handle, Faucet, Deep bell wall flange.

- .5 McGuire PW8089 P-Trap - Molded Closed cell vinyl (anti-microbial) wrapped cast brass, Glossy White, With Cleanout, ASME A112.18.2, CSA B125.2.
- .6 Standard of Acceptance: Franke Commercial ALBD6406P-1-3 Sink, Kindred.

2.5 SHOWERS

2.5.1 Shower SH-1: Prefabricated Barrier Free Shower Stall

- .1 Maxx Outlook BFS-6036A Acrylic Alcove One-Piece Shower with roofcap (67.75"x37"x87.625") CSA Compliant, 1 inch skirt and no interior threshold, center drain, includes (1) 42" horizontal and (1) 30" vertical grab bars on back wall, (1) 42" vertical grab bar on controls wall and (1) 24" grab bar on side wall, cushioned, Naugahyde folding seat, once-piece floor, textured floor.
- .2 Moen M-Dura 8389EP15 Pressure Balancing Shower Package: Commercial all-metal shower system with 5.7L/m (1.5gpm) vandal resistant shower head, arm & flange with 5.7 L/m (1.5gpm) non-positive pause function hand-held shower with 180mm (72") metal hose, 30" slide bar and wall-mounted drop ell. 3-function transfer valve trim with 3360 rough-in valve and posi-temp 2570 with integral stops.
- .3 Standard of Acceptance: Maxx Outlook BFS-6036A

2.6 BATHTUBS

2.6.1 Bathtub BT-1: Bathtub complete with Shower

- .1 Maxx Allia TSR-6032 AFR Acrylic Alcove one-piece tub shower with roof cap (60"x31"x87"), CSA Compliant, drain, includes 12" white grab bar on back wall, once-piece textured floor, textured floor, above the floor rough, built in shelves. Contractor to coordinate left hand and right hand order quantity based on drawings.
- .2 Moen M-Dura 8389EP15 Pressure Balancing Tub/Shower Package: Commercial all-metal shower trim & handle with cast diverter tub spout and metal vandal-resistant shower head, arm & flange delivering with 5.7L/m (1.5gpm) flow. Rough-in valve shall be Posi-Temp 2570 with integral stops.
- .3 Standard of Acceptance: Maxx Allia TSR-6032

2.6.2 Bathtub BT-2 (Barrier Free): Bathtub complete with Shower

- .1 Maxx Allia TSR-6032 AFR Acrylic Alcove one-piece tub shower with roof cap (60"x31"x87"), CSA Compliant, barrier free, drain, left, right and back grab bar options 20203, 20204 & 20216, once-piece textured floor, textured floor, above the floor rough, built in shelves. Contractor to coordinate left hand and right hand order quantity based on drawings.

- .2 Moen M-Dura 8389EP15 Pressure Balancing Tub/Shower Package: Commercial all-metal shower trim & handle with cast diverter tub spout and metal vandal-resistant shower head, arm & flange delivering with 5.7L/m (1.5gpm) flow. Rough-in valve shall be Posi-Temp 2570 with integral stops.
- .3 Standard of Acceptance: Maxx Allia TSR-6032

2.7 JANITOR SINKS

- 2.7.1 Mop Sink JS-1: Floor Mounted 24"x24" (610mm x 610mm)
- 2.7.2 Single compartment sink, Mop service sinks, with overall dimension 610 mm (24") long, 610 mm (24") wide, 305 mm (12") high, constructed from Precast terrazzo, Bowl dimensions are 546 mm (21-1/2") long, 546 mm (21-1/2") wide, 254 mm (10") deep, Pearl grey marble chips and white portland cement, 76 mm (3") pipe size, cast integrally and provides for a caulked lead connection not less than 25 mm (1") deep to a 76 mm (3") pipe, flat stainless steel strainer, Two side tiling flanges, With stainless steel cap, Chrome finish mop service sink fitting with vacuum breaker, Hose and wall hook, Mop hanger, Splash catcher.
- 2.7.3 Moen M-Dura 8230 Service Sink Faucet: Cast brass rough chrome wall-mounted service sink faucet with 2-1/2" lever handles and ¼-turn brass-shell ceramic disc cartridges. Integral vacuum breaker with internal service stops and wall-mount hardware with ½" eccentric IPS connections.
- 2.7.4 Standard of Acceptance: Stern Williams SB-902-T-10-VB-T-35-T-40-BP Sink.

2.8 LAUNDRY TUB

- 2.8.1 Laundry Tub LT-1 (Barrier Free): Counter mounted Stainless Steel sink with manual faucet
 - .1 Double compartment sink, 203 mm (8") centerset, Commercial sinks, with overall dimension 794 mm (31-1/4") long, 521 mm (20-1/2") wide, 152 mm (6") high, constructed from 18 gauge Type 304 Stainless steel, Left bowl is 356 mm (14") long and right bowl is 356 mm (14") long, Left bowl is 406 mm (16") wide and right bowl is 406 mm (16") wide, Left bowl is 127 mm (5") deep and right bowl is 127 mm (5") deep, Polished to #4 satin finish, Factory installed EZ TORQUE™ fasteners, Factory applied rim seal, Center back waste location, 38 mm (1-1/2") (DN38) brass tailpiece, 89 mm (3-1/2") crumb cup strainer, waste fitting included, Undercoated to reduce condensation and resonance, Codes and Compliances: ANSI A117.1 compliant, ASME A112.19.3 compliant, CSA B45.4 compliant.
 - .2 Moen M-Dura 8289 8" Deck Mounted Gooseneck Faucet: Heavy duty low lead cast brass 8" deck-mount faucet with 4" single level with integral adjustable temperature limit stop, ceramic disc cartridge and 5.7gpm (1.5gpm) vandal resistant aerator. 9" spout reach with flexible supply lines.

- .3 Moen 104424 Mechanical Mixing Valve: Low lead brass mechanical mixing valve with integral in-line check valves with 3/8" compression connections. Temperature setting by adjusting tab position to desired temperature. Certified NSF 61/354. Mechanical Contractor shall locate mixing valve within recessed lockable cabinet below the sink and not install exposed.
- .4 McGuire LFCK170 Supply - Lead Free, Sweat to compression, Integral check supply kit w/5" sweat extension, Chrome-plated finish, 1/2" Sweat w/5" Sweat extension x 3/8" O.D, 305 mm (12") chrome-plated risers, Wheel handle, Faucet, Deep bell wall flange.
- .5 McGuire PW8089 P-Trap - Molded Closed cell vinyl (anti-microbial) wrapped cast brass, Glossy White, With Cleanout, ASME A112.18.2, CSA B125.2.
- .6 Standard of Acceptance: Franke Commercial ALBD6406P-1-3 Sink, Kindred.

2.9 EMERGENCY EYE WASH

2.9.1 EW-1

- .1 Guardian G1784-G3600LF Emergency Equipment - Pedestal Mounted, constructed from Stainless steel, 11-1/8" diameter stainless steel, FS-Plus, Two spray heads with a flip-top dust cover, internal flow control and filter on each spray head, 11 1/8" (283 mm) wide, 38 1/2" (978 mm) high, 1/2" I.P.S. stainless steel stay-open ball valve, stainless steel ball and PTFE seals, 1/2" NPT female inlet supply, Schedule 40 stainless steel, Orange polyethylene pipe covers, 1-1/4" NPT female outlet, Thermostatic mixing valve, Codes and Compliances:, ANSI-compliant, Notes:, Valve, bowl and spray head assembly is factory assembled and water tested.
- .2 Lawler 911E/F-Unit 84908 Mixing Valve - Emergency mixing valve, Thermostatic High-low master water mixing valve, The control mechanism shall employ a liquid-filled thermostatic motor to drive the valve without additional power requirements. The control mechanism shall employ a stainless steel sliding piston control device with reverse seat closure and both fixed and variable cold water bypass.
- .3 Watts FD-104NH-C-A5-1 Floor Drain - Epoxy coated cast iron, Floor drain, Adjustable Round 6 mm (1/4") thick top, 102 mm (4") pipe size, No-hub outlet, 127 mm (5") diameter nickel bronze strainer, Anchor flange, Trap primer tapping, Reversible membrane clamp, Collar with primary and secondary weepholes, 52 cm² (8 sq. in) free area, Certification and Compliances include: ASME A112.21.1M compliant.

2.10 LAUNDRY WASHBOX

2.10.1 Washbox WB-1: Plastic Laundry Box (Fire Rated)

- 2.10.2 PPP MM-500 PLBFR Laundry Box (8-3/16" W X 7-1/16" H X 3-5/16" D) - Plastic, Solenoid operated equipment can create destructive water hammer, by adding the Ice maker box assembly you are protecting your equipment as well as insuring against premature replacement.

3 EXECUTION

3.1 INSTALLATION

3.1.1 Mounting heights:

- .1 Standard: to comply with manufacturer's recommendations unless otherwise indicated or specified.
- .2 Wall-hung fixtures: as indicated, measured from finished floor.
- .3 For barrier-free washrooms: to comply with most stringent of either NBCC or CAN/CSA B651, or Provincial Building Accessibility Act and Regulations.
- .4 Provide venting for all plumbing fixtures as required by codes.
- .5 Provide chrome plated flexible supplies to fixtures with screw driver stops, reducers and escutcheons.
- .6 All piping shall be recessed unless otherwise approved. Piping to be installed in areas shall be run in neat parallel lines as tight as possible to walls and ceilings.

3.2 ADJUSTING

3.2.1 Conform to water conservation requirements specified this section.

- .1 Adjustments.
 - .1 Adjust water flow rate to design flow rates.
 - .2 Adjust pressure to fixtures to ensure no splashing at maximum pressures.
 - .3 Adjust flush valves to suit actual site conditions.
 - .4 Adjust urinal flush timing mechanisms.
 - .5 Automatic flush valves for urinals and water closets: set controls to prevent unnecessary flush cycles during silent hours.
- .2 Checks.
 - .1 Water closets, urinals: flushing action.
 - .2 Aerators: operation, cleanliness.
 - .3 Vacuum breakers, backflow preventers: operation under all conditions.
- .3 Thermostatic controls.

- .1 Verify temperature settings, operation of control, limit and safety controls.

END OF SECTION