PLUMBING SPECIFICATION: (BASIS OF DESIGN)

WC-1 WATER CLOSET

KOHLER WELLWORTH MODEL K3998-U FLOOR MOUNTED TWO PIECE LINED TANK TYPE TOILET, VITREOUS CHINA ELONGATED BOWL. 1.28 GPF (4.8 LPF), FULLY GLAZED 2-1/8" TRAPWAY. 800 MAP TEST MINIMUM.

BEMIS 1055SSC WHITE ELONGATED OPEN FRONT TOILET SEAT WITH SELF-SUSTAINING CHECK HINGE AND STAINLESS STEEL HARDWARE. PROVIDE 1/4 TURN ISOLATION VALVE, BRAIDED SUPPLY TUBE, ESCUTCHEON PLATE, WAX RING AND CLOSET BOLTS. [BOLTED TANK LID]

WC-2 WATER CLOSET - BARRIER FREE

KOHLER HIGHLINE COMFORT HEIGHT MODEL K-3999 FLOOR MOUNTED TWO PIECE LINED TANK TYPE TOILET, VITREOUS CHINA ELONGATED BOWL. 1.28 GPF (4.8 LPF), FULLY GLAZED 2-1/8" TRAPWAY. 800 MAP TEST MINIMUM.

BEMIS 1950SS WHITE ELONGATED OPEN FRONT TOILET SEAT WITH COVER, WITH SELF-SUSTAINING STAINLESS STEEL HINGE. PROVIDE 1/4 TURN ISOLATION VALVE, BRAIDED SUPPLY TUBE, ESCUTCHEON PLATE, WAX RING AND CLOSET BOLTS. [BOLTED TANK LID]

UR-1 URINAL - HARDWIRED ELECTRONIC FLUSH VALVE

KOHLER BARDON MODEL K4991-ET VITREOUS CHINA WASHOUT URINAL. 0.125 TO 1 GPF RANGE. 3/4" TOP SPUD.

DELTA COMMERCIAL MODEL 81T231-WMSHWA FLUSH VALVE, EXPOSED HARD WIRE OPERATED DIAPHRAGM FLUSH VALVE FOR URINALS WITH 3/4" TOP INLET. POLISHED CHROME PLATED VANDAL RESISTANT METAL COVER WITH 4-1/2" WALL MOUNT SENSOR OPERATED ELECTRONICS. ELECTRONIC OPERATED NON-HOLD-OPEN METAL MANUAL OVERRIDE BUTTON WITH 5 SECOND LOCKOUT. EXTERNAL WATER CONSERVING FLUSH ADJUSTMENT: FACTORY TO SET 1.9 LITRE (0.50 GAL.) - FIELD ADJUSTABLE FROM 0.47 TO 3.78 LITRE FLUSH (1/8 TO 1.0 GAL.). PROVIDE HARDWIRE TRANSFORMER, ADJUSTABLE SPLIT RING FLUSH VALVE PIPE SUPPORT AND FLOOR MOUNTED CONCEALED CARRIER.

LAV-1 LAVATORY - HARDWIRED ELECTRONIC FAUCET

KOHLER CAXTON OVAL MODEL K-2209 VITREOUS CHINA COUNTER TOP UNDERMOUNT SINK WITH OVERFLOW. 4" CENTER HOLES FOR FAUCET. DIMENSIONS: 15-1/4" X 12-1/4" X 5-3/4"

DELTA COMMERCIAL MODEL 591T025BTR CHROME-PLATED CAST 4" (102MM) SPOUT BODY WITH INTEGRAL SENSOR TECHNOLOGY - NO EXTERNAL ADJUSTMENTS REQUIRED. VANDAL RESISTANT 0.5GPM (1.9 L/MIN) LAMINAR OUTLET. ADJUSTABLE SENSING RANGE AND TIMEOUT. DELTA COMMERCIAL MODEL ELAVTOOOBARI CONTROL BOX ROUGH-IN FOR RECESSED WALL MOUNTING. 10" SQUARE METAL BOX WITH COVER. HOT AND COLD INLET SUPPLIES. POINT OF USE THERMOSTATIC MIXING VALVE. INTEGRAL CHECK VALVES IN HOT AND COLD INLETS TO PREVENT CROSSFLOW. OUTLET TEMPERATURE RANGES 95-120°F (35-49°C). MAXIMUM FLOW 11 GPM (42 L/MIN) @ 45 PSI PRESSURE LOSS, MINIMUM FLOW 0.34 GPM (1.36 L/MIN). FACTORY ASSEMBLED WATERWAY COMPONENTS WITH STOPS. DELTA COMMERCIAL MODEL 33T311 POLISHED CHROME PLATED CAST BRASS BODY 1-1/4" (32MM) SIZE ADJUSTABLE P TRAP WITH CLEANOUT PLUG. PROVIDE HARDWIRE TRANSFORMER AND OPEN GRID PO.

LAV-2 LAVATORY - BARRIER FREE - HARDWIRED ELECTRONIC FAUCET

KOHLER BRENHAM MODEL K-1999 VITREOUS CHINA WALL-MOUNT LAVATORY WITH SHROUD. OVERFLOW. 4" CENTER HOLES FOR FAUCET. DIMENSIONS: 21-15/16" (557MM) IN LENGTH X 19-3/4" (502MM) IN WIDTH X 6-9/16" (162MM) IN DEPTH.

DELTA COMMERCIAL MODEL 591T025BTR CHROME-PLATED CAST 4" (102MM) SPOUT BODY WITH INTEGRAL SENSOR TECHNOLOGY - NO EXTERNAL ADJUSTMENTS REQUIRED. VANDAL RESISTANT 0.5GPM (1.9 L/MIN) LAMINAR OUTLET. ADJUSTABLE SENSING RANGE AND TIMEOUT. DELTA COMMERCIAL MODEL ELAVTOOOBARI CONTROL BOX ROUGH-IN FOR RECESSED WALL MOUNTING. 10" SQUARE METAL BOX WITH COVER. HOT AND COLD INLET SUPPLIES. POINT OF USE THERMOSTATIC MIXING VALVE. INTEGRAL CHECK VALVES IN HOT AND COLD INLETS TO PREVENT CROSSFLOW. OUTLET TEMPERATURE RANGES 95-120°F (35-49°C). MAXIMUM FLOW 11 GPM (42 L/MIN) @ 45 PSI PRESSURE LOSS, MINIMUM FLOW 0.34 GPM (1.36 L/MIN). FACTORY ASSEMBLED WATERWAY COMPONENTS WITH STOPS. DELTA COMMERCIAL MODEL 33T311 POLISHED CHROME PLATED CAST BRASS BODY 1-1/4" (32MM) SIZE ADJUSTABLE P TRAP WITH CLEANOUT PLUG AND PROWRAP INSULATION. PROVIDE HARDWIRE TRANSFORMER AND OPEN GRID PO.

MS-1 MOP SINK

FIAT MODEL MSBID2424100 MODESTO SQUARE MOP SERVICE SINK. SQUARE, MOLDED STONE MOP SERVICE BASIN WITH 10" (254MM) DEEP, PLAIN CURBS. INTEGRAL DRAIN IS MOLDED INTO A ONE PIECE UNIT AND DESIGNED TO CONNECT TO A 3" DRAIN PIPE. DIMENSIONS: 24" (600MM) X 24" (600MM) X 10" (254MM). PROVIDE STAINLESS STEEL BUMPER GUARDS ON ALL EXPOSED EDGES AND STAINLESS STEEL WALL SPLASH SHIELD.

DELTA COMMERCIAL MODEL 28C8063 HEAVY DUTY CAST BRASS WALL MOUNT SERVICE SINK FAUCET WITH INTEGRAL STOPS, 203MM (8") CENTERS ADJUSTABLE FROM 7.75" TO 8.25". 3" (76 MM) LEVER BLADE HANDLES- BARRIER-FREE COMPLIANT-METAL-COLOR INDEXED-VANDAL RESISTANT SCREWS. 1/4 TURN CERAMIC CARTRIDGE. ROUGH CHROME PLATED FINISH, HEAVY DUTY 1/2" IPS BRASS PIPE RIGID PAIL HOOK SPOUT, BODY MOUNTED ANGLE VACUUM BREAKER-GARDEN HOSE END OUTLET ON SPOUT, ADJUSTABLE TOP/BOTTOM BRACE. DELTA COMMERCIAL MODEL 28T910 STAINLESS STEEL MOP HANGER, 3" X 26" (76MM X 660MM), 3 SPRING LOADED RUBBER GRIP HOLDERS. DELTA COMMERCIAL MODEL 28T911 HEAVY DUTY 48" (1219MM) LONG REINFORCED HOSE, BRASS COUPLING, STAINLESS STEEL HANGER BRACKET, 3" X 5" (76MM X 127MM) WITH RUBBER GRIP.

SH-1 SHOWER HEAD AND ACTUATOR - HARDWIRED ELECTRONIC PUSH BUTTON & MIXING VALVE CONTROLS

DELTA COMMERCIAL MODEL 86OT1 PUSH BUTTON ELECTRONIC SHOWER SYSTEM. HARDWIRE - 24 VAC. STAINLESS STEEL COVER WITH S/S VANDAL RESISTANT MOUNTING SCREWS. METAL MOUNTING BOX. FIELD ADJUSTABLE SHOWER TIME. SLOW CLOSING SOLENOID VALVE. INTEGRAL STOP. SHOWER FLOWS WHEN PUSH BUTTON IS ACTIVATED. ADJUSTABLE MAXIMUM CONTINUOUS RUN TIME TEN (10) MINUTES. FACTORY SET TO THREE (3) MINUTES. DELTA COMMERCIAL MODEL 063196A SHOWERHEAD CAST BRASS INSTITUTIONAL WALL MOUNT SHOWER HEAD POLISHED CHROME PLATED FINISH, 30 DEGREE SPRAY ANGLE FROM WALL, CONCEALED CAST BRASS MOUNTING PLATE, VANDAL RESISTANT FRONT MOUNTING SCREWS, 1/2" COPPER SWEAT INLET. 1.5 GPM. PROVIDE HARDWIRE TRANSFORMER AND PRESSURE BALANCED REMOTE MIXING VALVE LOCATED IN CRAWLSPACE COMPLETE WITH LIMIT STOP.

SH-2 SHOWER HEAD AND ACTUATOR- BARRIER FREE

DELTA COMMERCIAL MODEL T17TH925 POLISHED CHROME PLATED FINISH, PRESSURE BALANCE CARTRIDGE, TEMPERATURE ONLY CONTROLLED WITH HANDLE, FIELD ADJUSTABLE TO LIMIT HANDLE ROTATION INTO HOT WATER ZONE. INTEGRAL CHECKS IN THE CARTRIDGE PREVENT CROSSFLOW BETWEEN HOT AND COLD WATER INLETS. NON-REMOVABLE BLUE/RED VISUAL COVER INDICATOR FOR COLD, MIXING AND HOT HANDLE POSITIONS. LEVER BLADE HANDLE - BARRIER-FREE COMPLIANT-57MM (2.24"). DELTA COMMERCIAL FAUCET R10000-UNWS - FORGED BRASS VALVE BODY ONLY WITH SCREWDRIVER STOPS. 1/2" NPT MALE THREAD WITH 1/2" C.W.T. FEMALE SWEAT WITH BACK-TO-BACK INSTALLATION CAPABILITIES. STANDARD 24" STAINLESS STEEL BAR WITH BARRIER-FREE SLIDE HAND SHOWER AND SHOWER DIVERTER VALVE-BACKFLOW PROTECTION PROVIDED BY TWO INTEGRAL CHECK VALVES IN HAND SHOWER, BARRIER-FREE COMPLIANT DIVERTER HANDLE. HAND SHOWER MAX: 1.5 GPM @ 80 PSI (5.7L/MIN @ 552KPA) SHOWERHEAD - DELTA COMMERCIAL MODEL 060991A CAST BRASS INSTITUTIONAL WALL MOUNT SHOWER HEAD POLISHED CHROME PLATED FINISH, 30 DEGREE SPRAY ANGLE FROM WALL, CONCEALED CAST BRASS MOUNTING PLATE, VANDAL RESISTANT FRONT MOUNTING SCREWS, 1/2" COPPER SWEAT INLET.

EFW-1 EMERGENCY FACE WASH

HAWS MODEL 7460B, 11" (280MM) ROUND BOWL, INVERTED DIRECTIONAL LAMINAR FLOW , FLOW CONTROL, STAY-OPEN BALL VALVE, STRAINER, WALL BRACKET, DUST COVERS FOR EYEWASH HEAD, UNIVERSAL SIGN. EYEWASH TO BE INSTALLED WITH SERVICE SINK MS-1 IN SERVICE ROOM. REFER TO FLOOR PLAN FOR EXACT LOCATIONS.

HAWS MODEL 9201EF MIXING VALVE, OUTLET TEMPERATURE GAUGE, OUTLET SHUT OFF IN CASE OF COLD WATER FAILURE, COLD WATER BYPASS MODE IN CASE OF HOT WATER FAILURE.

FD-1 FLOOR DRAIN

WATTS FD-100-C-L5-1 EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEP HOLES, 1/2" (13MM) THICK 5"X5" NICKEL BRONZE STRAINER, MEMBRANE CLAMP AND NO HUB OUTLET.

STRAINER COVER TO HAVE TAMPER PROOF SCREWS.

FFD-1 FUNNEL FLOOR DRAIN

WATTS FD-200-G1 EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEP HOLES, 1/4" (6MM) THICK ADJUSTABLE NICKEL BRONZE STRAINER, 4" (102MM) X 9" (229) OVAL NICKEL BRONZE FUNNEL, [MEMBRANE CLAMP] AND NO HUB OUTLET.

HS-1 HAND SINK

KOHLER BRENHAM MODEL K-1999 VITREOUS CHINA WALL-MOUNT LAVATORY WITH SHROUD. OVERFLOW. 4" CENTER HOLES FOR FAUCET. DIMENSIONS: 21-15/16" (557MM) IN LENGTH X 19-3/4" (502MM) IN WIDTH X 6-9/16" (162MM) IN DEPTH.

DELTA COMMERCIAL MODEL 22C101 HEAVY DUTY CAST BRASS 4" (102MM) CENTERSET. POLISHED CHROME PLATED FINISH. CERAMIC CARTRIDGE WITH ROTATIONAL LIMIT STOP. VANDAL RESISTANT 3-1/2" (89MM) BARRIER-FREE COMPLIANT LEVER HANDLE WITH COLOR INDEX. VANDAL RESISTANT OUTLET (WRENCH FLATS) 0.5 USGPM (1.9L/MIN). DELTA COMMERCIAL MODEL 33T311 POLISHED CHROME PLATED CAST BRASS BODY 1-1/4" (32MM) SIZE ADJUSTABLE P TRAP WITH CLEANOUT PLUG.
PROVIDE FLOOR MOUNTED CARRIER, OPEN GRID PO, BASIN SUPPLIES, ESCUTCHEON PLATES, LAV GUARD DRAIN COVERING, POINT OF USE MIXING VALVE AND 1/4 TURN ISOLATION VALVES.

DF-1 DRINKING FOUNTAIN - HARDWIRED ELECTRONIC BOTTLE FILLER

ELKAY EZH2O BOTTLE FILLING STATION WITH SINGLE ADA COOLER NON-FILTERED 8 GPH LIGHT GRAY MODEL EZS8WSLK.

ELKAY EZH2O BOTTLE FILLING STATION WITH SINGLE ADA COOLER, NON-FILTERED 8 GPH LIGHT GRAY. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, BASED ON 80° F INLET WATER AND 90° F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE HANDS FREE, GREEN TICKER, LAMINAR FLOW, ANTIMICROBIAL, REAL DRAIN. FURNISHED WITH FLEXI-GUARD SAFETY BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION. PRODUCT SHALL BE WALL MOUNT, FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120. UNIT SHALL BE LEAD-FREE DESIGN WHICH IS CERTIFIED TO NSF/ANSI 61 & 372 (LEAD FREE) AND MEETS FEDERAL AND STATE LOW-LEAD REQUIREMENTS.

SPECIAL FEATURES: HANDS FREE, GREEN TICKER, LAMINAR FLOW, ANTIMICROBIAL, REAL DRAIN, FINISH: LIGHT GRAY GRANITE , POWER: 115V/60HZ , BUBBLER STYLE: FLEXI-GUARD SAFETY BUBBLER, ACTIVATION BY: ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER, PUSHBAR , MOUNTING TYPE: WALL MOUNT (ON WALL) , CHILLING OPTION*: 8.0 GPH , FULL LOAD AMPS 6 , RATED WATTS: 370 , DIMENSIONS (L X W X H): 18-3/8" X 19" X 39-1/16" , APPROX. SHIPPING WEIGHT: 82 LBS. , INSTALLATION LOCATION: INDOOR , NO. OF STATIONS SERVED: 1, *BASED ON 80° F INLET WATER & 90° F AMBIENT AIR TEMP FOR 50° F CHILLED DRINKING WATER.

TS-1 TUB SINK

GRAINGER MODEL 1RLN7 MUSTEE, SQUARE UTILITY SINK, THERMOPLASTIC WITH LEGS, 24" X 20", 13" DEEP, WHITE, ADJUSTABLE LEG LEVERS, POLY PROPYLENE. FASTEN LEGS TO THE FLOOR.

DELTA COMMERCIAL MODEL 28C8063 HEAVY DUTY CAST BRASS WALL MOUNT SERVICE SINK FAUCET WITH INTEGRAL STOPS, 203MM (8") CENTERS ADJUSTABLE FROM 7.75" TO 8.25". 3" (76 MM) LEVER BLADE HANDLES- BARRIER-FREE COMPLIANT-METAL-COLOR INDEXED-VANDAL RESISTANT SCREWS. 1/4 TURN CERAMIC CARTRIDGE. ROUGH CHROME PLATED FINISH, HEAVY DUTY 1/2" IPS BRASS PIPE RIGID PAIL HOOK SPOUT, BODY MOUNTED ANGLE VACUUM BREAKER-GARDEN HOSE END OUTLET ON SPOUT, ADJUSTABLE TOP/BOTTOM BRACE. DELTA COMMERCIAL MODEL 28T910 STAINLESS STEEL MOP HANGER (ADJACENT TO SINK), 3" X 26" (76MM X 660MM), 3 SPRING LOADED RUBBER GRIP HOLDERS. DELTA COMMERCIAL MODEL 28T911 HEAVY DUTY 48" (1219MM) LONG REINFORCED HOSE, BRASS COUPLING, STAINLESS STEEL HANGER BRACKET, 3" X 5" (76MM X 127MM) WITH RUBBER GRIP.

HB-1 HOSE BIBB (INDOORS)

WATTS SERIES SC8. HYDRANT TO BE MANUFACTURED WITH BRASS BODY WITH NICKEL-PLATED FINISH, BRASS VACUUM BREAKER MECHANISM, METAL HANDLE, AND 0.8MM COPPER TUBE WALL THICKNESS.

HB-2 HOSE BIBB (EXTERIOR)

WATTS SERIES HY42 NON-FREEZE EXPOSE TYPE AUTOMATIC DRAINING WALL HYDRANT WITH VACUUM BREAKER BACKFLOW PREVENTER. 3/4" (20MM) HOSE THREAD NOZZLE, ONE PIECE VALVE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTIONS, RUGGED BRASS PIPE CONSTRUCTION, LOCKING CHROME PLATED BRASS BOX AND HYDRANT. MOUNTING BOX LOCKS IN THE UP POSITION. LOOSE TEE KEY TO BE FURNISHED WITH EACH HYDRANT.

MV-1 THERMOSTATIC MIXING VALVE

LEONARD MODEL 369-LF AUTOMATIC TEMPERATURE CONTROL MIXING VALVE, (1-12 GPM), LEAD FREE BRONZE, LOCKED TEMPERATURE ADJUSTMENT CAPS, 3/4" INLET & OUTLET, MINIMUM FLOW 1.0 GPM, TEMPERATURE ADJUSTMENT RANGE 90-120F.

BUILDING PLUMBING SERVICES (INCLUDES EXISTING & NEW FIXTURES, DOES NOT INCLUDE FILLING OF POOLS)

FIXTURE DESCRIPTION	FIXTURE QTY	SANITARY FIXTURE UNITS	TOTAL SANITARY FIXTURE UNITS	DOMESTIC H_2O FIXTURE UNITS PER FIXTURE		TOTAL DOMESTIC H_2O FIXTURE UNITS	
				COLD H_2O	HOT H_2O	COLD H_2O	HOT H_2O
WATER CLOSET	14	6	84	5		70	
URINAL - FLUSH VALVE	2	4	8	5		10	
LAVATORY (8.3 LPM OR LESS)	10	1	10	0.5	0.5	5	5
SHOWER STALLS	2	3	6	1	1	2	2
SHOWER HEADS	18	1.5	27	1	1	18	18
SERVICE SINKS	3	3	9	2.25	2.25	6.75	6.75
DOMESTIC KITCHEN SINK (LESS THAN 8.3 LPM)	1	1.5	1.5	1	1	1	1
HAND SINK	1	1.5	1.5	1	1	1	1
DRINKING FOUNTAIN	2	1.25	2.5	0.25		0.5	
EMERGENCY FACE WASH	2	3	6	0.75	0.75	1.5	1.5
3" (75MM) FLOOR DRAIN	56	3	168				
1/2" (12MM) HOSE BIBB	7			2.5		15.75	
	TOTAL SANITARY FIXTURE UNITS		320.6	TOTAL DOMESTIC H_2O FIXTURE UNITS		131.5	35.25
	TOTAL SANITARY PEAK FLOW RATE L/s (BASED ON POPULATION METHOD)		--	TOTAL DOMESTIC COLD H_2O PEAK FLOW RATE GPM (l/s)		51 (3.23)	
				TOTAL DOMESTIC HOT H_2O PEAK FLOW RATE GPM (l/s)		24 (1.5)	
				TOTAL COMBINED DOMESTIC H_2O PEAK FLOW RATE GPM (l/s)		75 (4.73)	

* FILLING AND EMPTYING OF POOLS WOULD BE DONE WHEN BUILDING IS NOT IN OPERATION, FREEING UP THE FLOW RATES FROM ABOVE FIXTURES.

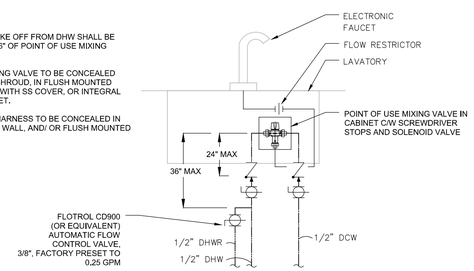
PLUMBING FIXTURE CONNECTION SIZES

FIXTURE DESCRIPTION	SANITARY CONNECTION		DOMESTIC COLD H_2O CONNECTION		DOMESTIC HOT H_2O CONNECTION	
	INCHES	MM	INCHES	MM	INCHES	MM
WATER CLOSET WITH FLUSH TANK	3	75	0.5	12		
URINAL	2	50	0.75	19		
LAVATORY	1.25	32	0.5	12	0.5	12
SHOWER	2	50	0.50	12	0.5	12
SERVICE SINK	3	75	0.5	12	0.5	12
KITCHEN SINK (SINGLE COMPARTMENT)	1.5	38	0.5	12	0.5	12
DRINKING FOUNTAIN	1.25	32	0.5	12		
HOSE BIBB			0.75	19		
EMERGENCY FACE WASH	2	50	0.50	12	0.50	12
FLOOR DRAIN	3	75				

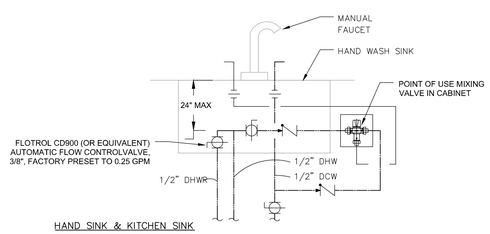
NOTE:
DHWR TAKE OFF FROM DHW SHALL BE WITHIN 36" OF POINT OF USE MIXING VALVE.

POU MIXING VALVE TO BE CONCEALED BEHIND SHROUD, IN FLUSH MOUNTED CABINET WITH SS COVER, OR INTEGRAL TO FAUCET.

WIRING HARNESS TO BE CONCEALED IN SHROUD, WALL, AND/ OR FLUSH MOUNTED CABINET.



WASHROOM LAVATORY



HAND SINK & KITCHEN SINK

1 / M4.2 TYPICAL DOMESTIC WATER TO FIXTURE DETAIL
SCALE: NTS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MCW Consultants Ltd.
No. 7183

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Drawn By: EJ
Printing Date: 22/12/2023

PROVINCE OF MANITOBA
J.E. VAN LEEUWEN
Member 36282
REGISTERED PROFESSIONAL ENGINEER
2023-12-21

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PLUMBING SPECIFICATIONS

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