

SECTION 15450 - OUTSIDE SERVICES

- PROVIDE PIPING SYSTEMS INCLUDING ALL NECESSARY CONNECTIONS TO MAINS FOR SANITARY AND DOMESTIC WATER SERVICE.
- CONFIRMATION OF EXACT LOCATION AND INVERT ELEVATIONS OF SERVICES PRIOR TO COMMENCING WORK. IF ANY DISCREPANCIES SHOULD BE DISCOVERED, THEN NOTIFY THE CONSULTANT IMMEDIATELY.
- CONFORM WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATION, THE LOCAL AUTHORITIES HAVING JURISDICTION AND THE CITY OF WINNIPEG CONSTRUCTION SPECIFICATIONS. IN THE CASE OF CONFLICTING REQUIREMENTS, BE GOVERNED BY THE MOST SEVERE REGULATIONS.
- SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS.
- SECTION 15400 SHALL CONNECT TO SANITARY SEWER 3'-0"(1.0M) OUTSIDE BUILDING.
- PIPE FITTINGS AND JOINTS
 - DOMESTIC WATER 2"(50MM) AND UNDER: TYPE "K" SOFT COPPER, THIRD PARTY CERTIFIED. CONNECT TO SERVICE 3'-0"(1.0M) OUTSIDE BUILDING.
 - SANITARY SEWER PIPING 6" AND OVER IPEX CLASS PVC CLASS 150 TO AWWA C900 AND C905 AND CSA B137.0 AND B137.3. "RIGID POLYCHLORIDE (PVC) PIPING FOR PRESSURE APPLICATIONS.
- EXAMINE AREA WHERE WORK IS TO BE PERFORMED FOR:
 - ANYTHING THAT AFFECTS EXECUTION AND QUALITY OF WORK.
 - PIPING CLEARANCES.
- WHERE, UNDER THIS CONTRACT, IT IS NECESSARY TO CONNECT EXISTING WEAR MAINS TO THOSE WHICH ARE TO BE LAID, ALL PRECAUTIONARY MEASURES DEEMED NECESSARY BY THE CONSULTANT TO PROTECT EXISTING MAINS, AND TO CAUSE THE LEAST INCONVENIENCE TO USERS OF EXISTING MAINS, SHALL BE CARRIED OUT BY THE OUTSIDE SERVICES CONTRACTOR AT NO ADDITIONAL CHARGE TO THE CITY. THIS CHARGE, IF ANY, TO BE INCLUDED. NO VALVE OR OTHER CONTROL ON THE SYSTEM SHALL BE OPERATED FOR ANY PURPOSE BY THE OUTSIDE SERVICES CONTRACTOR WITHOUT APPROVAL OF THE CONSULTANT, AND ALL CONSUMERS AFFECTED BY SUCH OPERATIONS SHALL BE NOTIFIED BY THE OUTSIDE SERVICE CONTRACTOR, AT LEAST ONE HOUR BEFORE THE OPERATION AND ADVISED OF THE PROBABLE TIME WHEN SERVICE WILL BE RESTORED.
- THE OUTSIDE SERVICE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ANY UNDERGROUND OR SURFACE UTILITY STRUCTURES, DRAIN, SEWER, WATER SERVICE, VALVE, SERVICE BOX OR OTHER OBSTRUCTION ENCOUNTERED IN THE PROGRESS OF THE WORK. ANY SERVICE OR OTHER UTILITY DAMAGE, SHALL BE REPAIRED OR REPLACED AT THE OUTSIDE SERVICE CONTRACTOR'S EXPENSE TO THE ENTIRE SATISFACTION OF THE CONSULTANT.
- THIS CONTRACTOR SHALL MAKE APPLICATION AND PAY FOR ALL PERMITS, ASSESSMENTS, INSPECTION FEES, CONNECTION CHARGES, STREET CUT PERMITS AND ALL OTHER CHARGES PERTAINING TO THE COMPLETION OF INSTALLATION, TO ALL APPROPRIATE GOVERNMENTAL AUTHORITIES.
- SEWER PIPES SHALL BE LAID ACCORDING TO THE GRADE AND ALIGNMENT SHOWN ON THE PLANS, WITHIN A TOLERANCE OF 1 1/2" (38 MM) VERTICAL AND 12" (300 MM) HORIZONTAL. THE OUTSIDE SERVICE CONTRACTOR TO ESTABLISH OWN BATTER BOARDS FOR LINE AND GRADE.
- ALL PIPES SHALL BE LEFT UNCOVERED FOR INSPECTION AND NO PIPES SHALL BE COVERED UNTIL PERMISSION HAS BEEN GIVEN BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL ALLOW 48 HRS. NOTIFICATION PRIOR TO COMMENCEMENT OF WORK. SHOULD ANY PIPE BE COVERED BY THE CONTRACTOR BEFORE THE PERMISSION OF THE AUTHORITY HAVING JURISDICTION HAS BEEN OBTAINED, THE TRENCH SHALL BE REOPENED AT THE OUTSIDE CONTRACTOR'S EXPENSE.
- PIPE BEDDING SHALL CONSIST OF A MINIMUM OF 4" (100 MM) SAND SHALL BE SPREAD AND GRADED OVER THE BOTTOM OF THE TRENCH BEFORE PLACING ANY PIPE. AFTER THE PIPE IS PLACED, FREE RUNNING SAND SHALL BE PLACED TO THE TOP OF THE PIPE AND THEN COMPACTED. PARTICULAR CARE SHALL BE TAKEN IN COMPACTING THIS MATERIAL TO GIVE PROPER SUPPORT TO THE PIPE. MORE SAND SHALL THEN BE PLACED AND THOROUGHLY COMPACTED TO 24" (600 MM) ABOVE THE PIPE IN 6" (150 MM) LIFTS. THE REMAINDER OF THE TRENCH WHERE GOING UNDER SIDEWALK PAVING, FLOOR SLABS, ETC. SHALL BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED IN 12" (300 MM) LIFTS TO THE SATISFACTION OF THE CONSULTANT. WHERE THE TRENCHES RUN THROUGH GRASSED AREAS, OR NON-PAVED AREAS, THE REMAINDER OF THE TRENCH MAY THEN BE BACKFILLED WITH CLEAN EARTH MECHANICALLY COMPACTED IN 12" (300 MM) LIFTS. ALL EXCAVATION SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH ALL GOVERNING CODES AND PROVINCIAL DEPARTMENT OF LABOUR REGULATIONS. ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE OR BE PLACED AS DIRECTED BY THE ARCHITECT AFTER INSTALLATION OF THE BURIED SERVICE.

PLUMBING FIXTURES AND EQUIPMENT:

- WC-1 WALL MOUNTED, VITREOUS CHINA, ELECTRONIC FLUSH VALVE, BARRIER FREE
- TOTO MODEL CT708EV WALL MOUNTED TOILET, VITREOUS CHINA, ELONGATED BOWL, SIPHON JET, 1 1/2" BACK SPUD, 4.8 LFP, SEAT TO BE INJECTION MOLDED HIGH IMPACT PLASTIC MATCHED FOR ELONGATED BOWL AND COMPLETE WITH OPEN FRONT AND STAINLESS STEEL HINGE POSTS WITH CONCEALED CHECK HINGE OPERATION, TOTO MODEL TET3LN1#SS HIGH EFFICIENCY TOILET ECO POWER FLUSHOMETER VALVE, BACK SPUD WALL, SATIN FINISH, VACUUM BREAKER AND ANGLE STOP SET, HYDROPOWER SELF-GENERATING SYSTEM, 4.8 LFP, FRANKE COMMERCIAL MIDLAND #CM16104 (ONLY REQUIRED AT SPECIFIC LOCATIONS. REFER TO ARCHITECTURAL FOR EXACT LOCATIONS), BACK REST, SATIN FINISH TYPE 304 18 GA. (1.2 MM) STAINLESS STEEL BAR 32 MM (1-1/4") TUBING DIAMETER, ANTIQUE WHITE SOLID CORE PLASTIC LAMINATE PANEL. WATTS #SCA-101-M11, SINGLE HORIZONTAL, ADJUSTABLE TOILET CARRIER, ALL EPOXY COATED CAST IRON FITTING, ADJUSTABLE ABS SLIDE NIPPLE WITH INTEGRAL TEST CAP AND NEOPRENE BOWL GASKET, WASTED PLATED HARDWARE, CHROME CAP NUTS, TILING FRAME, 102 MM (4") NO HUB WASTE, 51 MM (2") NO HUB VENT, 305 MM (12") FINISHED METAL STUD WALL TO BACK OF PIPE SPACE. WATER SUPPLY TO BE 1" ANGLED CLOSET SUPPLY WITH CHROME PLATED FINISH C/W 12" FLEXIBLE TUBING AND SHUT-OFF VALVE WITH ESCUTCHEON PLATE.

U-1 WALL MOUNTED BARRIER FREE URINAL, VITREOUS CHINA, ELECTRONIC FLUSH, BARRIER FREE

TOTO MODEL UT104EV, 0.5 GPF LOW CONSUMPTION WASHOUT URINAL, INTEGRAL TRAP, 3/4" BACK SPUD INLET, STAINLESS STEEL URINAL DRAIN COVER, WHITE, CONCEALED FLUSH VALVE, TOTO TEU3LN1#SS HIGH EFFICIENCY URINAL ECO POWER FLUSHOMETER VALVE, D.5 GPF, CONCEALED, BACK SPUD, SATIN FINISH, VACUUM BREAKER AND ANGLE STOP SET, 3/4" ANGLE STOP, 3/4" VACUUM BREAKER, OUTLET TUBE, SWEAT SOLDER KIT, 4"x4" COVER PLATE, WATTS #CA-321, FIXTURE CARRIER, EPOXY COATED TOP AND BOTTOM UNIVERSAL STEEL HANGER PLATES, HEAVY GAUGE EPOXY COATED STEEL OFFSET UPRIGHTS WITH WELDED FEET SUPPORTS. FOR ONE UNIT: 102 MM (4") FOR TWO TO SIX UNITS IN A ROW: 152 MM (6") FINISHED METAL STUD WALL TO BACK OF PIPE SPACE. WATTS #WUCO URINAL WALL ACCESS CLEANOUT, TWO PIECE EXPANDABLE PLUG WITH 102 MM (4") DIAMETER STAINLESS STEEL ACCESS COVER, SECURED WITH VANDAL PROOF STAINLESS STEEL SCREW.

L-1 COUNTER MOUNTED SELF-RIMMING - DROP-IN BASIN ELECTRONIC FAUCET - BARRIER FREE

FRANKE MODEL RNDX360 ROUND INSET VANITY BASIN, STAINLESS STEEL, 1MM THICKNESS, 5/8" OVERFLOW KIT, SATIN FINISH, PROVIDE BASIN RIM SEALANT, TOTO MODEL TEL5LC10R THERMAL MIXING HYDROPOWER SELF-GENERATING SYSTEM, SENSOR ACTIVATED FAUCET WITH AERATED FLOW, SELF ADJUSTING WITH CONTROL BOX AND MOUNTING HARDWARE, SINGLE-HOLE MOUNT 10 SECOND RUN TIME, 0.09 GAL PER CYCLE, MCGUIRE #155WCC OFFSET OPEN GRID DRAIN, CHROME PLATED CAST BRASS ONE PIECE TOP, 17 GA. (1.5 MM) MM TUBULAR 32 MM (1-1/4") TAILPIECE. MCGUIRE #LFH170BV, FAUCET SUPPLIES, CHROME PLATED POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") HORIZONTAL EXTENSION TUBES, COMBINATION V.P. LOOSE KEY HANDLE, ESCUTCHEON AND FLEXIBLE COPPER RISER. MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND. MCGUIRE PROWRAP #PW2000WC SANITARY COVERING VANDAL-RESISTANT, FLEXIBLE SEAMLESS MOULDED CLOSED-CELL PVC RESIN, FORMULATED WITH ANTI-MICROBIAL ADDITIVE TO LIMIT THE GROWTH OF FUNGUS AND BACTERIA, TO EXPOSED PIPING (TO PROTECT AGAINST HEAT/CONTUSIONS) AS PER LOCAL CODES.

L-2 SEMI-RECESSED COUNTER MOUNTED, BASIN ELECTRONIC FAUCET - BARRIER FREE

DUNLEAVY CORDUN MODEL L-4701 LISA LAVATORY DRILLED FOR SINGLE HOLE FAUCET, VITREOUS CHINA WITH OVERFLOW, M-5780 CHROME PLATED PERFORATED GRID STRAINER AND EXTENDED WASTE, PROVIDE BASIN RIM SEALANT, TOTO MODEL TEL5LC10R THERMAL MIXING HYDROPOWER SELF-GENERATING SYSTEM, SENSOR ACTIVATED FAUCET WITH AERATED FLOW, SELF ADJUSTING WITH CONTROL BOX AND MOUNTING HARDWARE, SINGLE-HOLE MOUNT 10 SECOND RUN TIME, 0.09 GAL PER CYCLE, MCGUIRE #155WCC OFFSET OPEN GRID DRAIN, CHROME PLATED CAST BRASS ONE PIECE TOP, 17 GA. (1.5 MM) MM TUBULAR 32 MM (1-1/4") TAILPIECE. MCGUIRE #LFH170BV, FAUCET SUPPLIES, CHROME PLATED POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") HORIZONTAL EXTENSION TUBES, COMBINATION V.P. LOOSE KEY HANDLE, ESCUTCHEON AND FLEXIBLE COPPER RISER. MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND. MCGUIRE PROWRAP #PW2000WC SANITARY COVERING VANDAL-RESISTANT, FLEXIBLE SEAMLESS MOULDED CLOSED-CELL PVC RESIN, FORMULATED WITH ANTI-MICROBIAL ADDITIVE TO LIMIT THE GROWTH OF FUNGUS AND BACTERIA, TO EXPOSED PIPING (TO PROTECT AGAINST HEAT/CONTUSIONS) AS PER LOCAL CODES.

MS-1 JANITOR MOP SINK - FLOOR MOUNTED

- FIAT MSB 2424 MOP SINK, 24" X 24" X 10" (610MM X 610MM X 254MM) DEEP, FLOOR MOUNTED, MOLDED STONE, INTEGRAL DRAIN WITH STRAINER AND 'BP' S.S. BACK SPLASH PANELS. DELTA MODEL 28C2384 WALLMOUNT SERVICE SINK FAUCET, RIGID SPOUT, HEAVY DUTY CAST BRASS TWO HANDLE, 8" CENTERS, POLISHED CHROME, INTEGRAL CHECK STOPS, 1/4 TURN CERAMIC STRUCTURES, 1-1/2" SPOUT WITH ADJUSTABLE TOP/BOTTOM BRACE, SPOUT END VACUUM BREAKER WITH HOSE THREAD OUTLET, 6" WRIST HANDLES, SANITARY HOODS, 28T911 HOSE AND HOSE BRACKET.

TP-1 TRAP SEAL

WADE 2402 3" TRAP GUARD.

FD-1 FLOOR DRAINS - FIN. AREAS - SHOWER (MED. DUTY STRAINER)

SMITH SERIES 2005A FLOOR DRAIN, ALL DUCCO COATED CAST IRON BODY, REVERSIBLE FLASHING CLAMP WITH SEEPAGE OPENINGS AND ADJUSTABLE 5" (127MM) DIAMETER NICKEL BRONZE 1/4" (6.35MM) THICK STRAINER, SECURED WITH S.S. SCREWS, 4" (100MM) THROAT ON STRAINER. (WHERE REQUIRED BY LOCAL CODE PROVIDE TRAP PRIMER CONNECTION 'P'.)

NFHB NON-FREEZE WALL HYDRANT - EXTERIOR

SMITH SERIES 5609QT WALL HYDRANT, 1/4 TURN NON-DRIP, CERAMIC CARTRIDGE, 3/4" (19MM) NON-FREEZE WALL TYPE WITH BRONZE FACE, ADJUSTABLE WALL-FLANGE OPERATING KEY AND SELF-DRAINING INTEGRAL VACUUM BREAKER. LENGTH TO SUIT WALL THICKNESS.

HB-1 INTERIOR HOSE BIBB (FOR BLOWOUT OF LINES)

LEAD FREE BRASS HOSE BIBB, T-HANDLE, NPT MALE C/W VACUUM BREAKER.

WHA-1 WATER HAMMER ARRESTORS

- SMITH 'HYDROTROL' WATER HAMMER ARRESTORS SERIES #5000, STAINLESS STEEL, PRESSURIZED CHAMBERS, BELLOWS, SIZE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS CHART BELOW TO ELIMINATE WATER HAMMER AND SHOCK FROM PIPING SYSTEM. PROVIDE WATER HAMMER ARRESTORS ON HOT AND COLD WATER SUPPLIES TO ALL QUICK VALVES, SOLENOIDS, AND PLUMBING FIXTURES, AND LOCATE IN AN UPRIGHT POSITION BETWEEN THE LAST TWO FIXTURES ON A LINE, OR HORIZONTALLY AT THE END OF LINE CLOSEST TO SUPPLY SOURCE.

SIZE	FIXTURE UNITS	MODEL NO.	CONN. SIZE
A	1 - 11	5005	1/2" (12MM)
B	12 - 32	5010	3/4" (19MM)

HWT-1 DOMESTIC HOT WATER TANK

- RHEEM MODEL 82VP30-1 ELECTRIC POINT OF USE WATER HEATER, 30 GALLON, 3 KW AT 240V-1PH, HIGH EFFICIENCY HEATING ELEMENT, OVER-TEMPERATURE PROTECTOR, AUTOMATIC THERMOSTAT, TEMPERATURE AND PRESSURE RELIEF VALVE, GLASS TANK LINING, 3/4" CONNECTIONS.

SP-1 SUMP PUMP PACKAGE

- LIBERTY SPAC-237 ASSEMBLED SUMP PUMP PACKAGE, 18"x22" POLYETHYLENE SUMP PUMP PIT AND COVER WITH GASKET AND HARDWARE, 1 1/2" SCHEDULE 40 PVC DISCHARGE PIPE, TWO 4" INLETS WITH RUBBER GROMMET SEALS, GASKETED COVER, SPAC-237-2 SUMP PUMP, POLYPROPYLENE AND POWDER COATED ALUMINUM CONSTRUCTION, STAINLESS STEEL ROTOR SHAFT, 1/2 HP, 115V, 35 GPM @ 8 FT, VERTICAL MAGNETIC FLOAT, 25' POWER CORD, HIGH LEVEL ALARM WITH DIAL OUT.

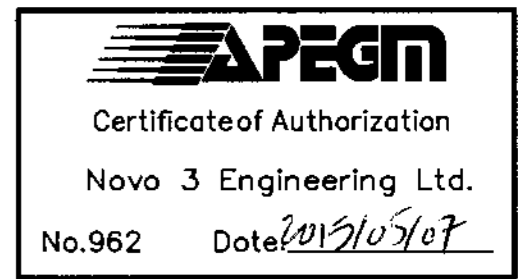
SECTION 15800 - HEATING, VENTILATION & AIR CONDITIONING

- PROVIDE EXHAUST AIR DUCT SYSTEM FROM EXHAUST FAN AS SHOWN.
- ALL DUCTWORK INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH ASHRAE, SMACNA LATEST EDITION DUCT STANDARDS.
- THIS CONTRACTOR SHALL SUPPLY AND INSTALL ALL DUCTWORK INCLUDING APPURTENANCES, HANGERS, DAMPERS, ETC.
- DUCT CONSTRUCTION:
 - ROUND AND OVAL DUCTWORK SHALL BE SPIRAL CONDUIT CONSTRUCTION OF ZINC COATED STEEL OF THE FOLLOWING U.S GAUGES:

CONDUIT SIZE	GAUGE OF METAL
8" AND SMALLER	26
9" TO 22"	24
- BALANCING DAMPERS SHALL BE CONSTRUCTED FROM GALVANIZED STEEL 2 GAUGES HEAVIER THAN THE DUCTWORK IN WHICH THEY ARE INSTALLED C/W LOCKING QUADRANT AND INDICATING DEVICE.
- ALL NEW DUCTWORK SHALL BE SEALED USING DUCT BOND II HIGH PRESSURE, NON-TOXIC, DUCT SEALER THROUGHOUT ALL SEAMS AND JOINTS.
- SUPPORT HORIZONTAL DUCTS ON MAXIMUM 8'-0" (2.4 M)CENTERS BY PERFORATED GALV. STEEL RIVETTED STRAP FOR DUCTWORK 36" (915 MM) (EITHER DIMENSION) OR LESS, AND MINIMUM 1" X 1" X 1/8" (25 X 25 X 2 MM) GALV. IRON UNDER DUCTS OVER 36" (915 MM) (EITHER DIMENSION) WITH 3/8" (6 MM) DIAM. THREADED RODS SUSPENDING ANGLES FROM STRUCTURE.
- PROVIDE 4" (100 MM) FLEXIBLE DUCT CONNECTIONS ON BOTH INLET AND OUTLET DISCHARGE SIDES OF EACH FAN.
- PROVIDE VIBRATION ISOLATORS FOR EXHAUST FAN. SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION.
- BACK-DRAFT DAMPERS SHALL BE PROVIDED WITH THE FOLLOWING MINIMUM REQUIREMENTS:
 - 16 GA. GALVANIZED STEEL OR ALUMINUM CHANNEL FRAME; 16 GA. GALVANIZED BLADES C/W STIFFENERS, FULL BLADE-LENGTH SHAFT; BRASS, BALL OR NYLON BUSHING; FELT OR NEOPRENE ANTI-CHATTER BLADE STRIPS; ADJUSTABLE COUNTER-BALANCE.
- ALL AIR SYSTEMS SHALL BE BALANCED AND TESTED BY A CERTIFIED A.A.B.C. INDEPENDENT BALANCING AGENCY TO PROVIDE QUANTITIES AS SHOWN. PROVIDE THREE(3) SETS OF BALANCE REPORTS FOR REVIEW BY THE CONSULTANT. ALL BALANCING REPORTS SHALL INCLUDE FIRE DAMPER TESTING AND CERTIFICATION.

Owner
City of Winnipeg
190 River Road, Winnipeg, MB

No.	Date	Revision Notes
1	2015.05.08	Issued for Construction



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Project
St. Vital Washrooms
Drawing
MECHANICAL SPECIFICATION

Drawn By
PSG
Scale
As Shown
Reviewed By
PSG
Drawing No.
M-3.2
Date
Mar. 2015
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