INSULATION

2.4.

INSULATE ALL DOMESTIC WATER PIPING WITH 1/2" FIBERGLAS 7 LB. DENSITY, PIPE INSULATION WITH ASJ AS PER MFG. RECOMMENDATIONS. SEAL ALL BREAKS, JOINTS WITH ASJ TAPE.

INSULATE ALL HEATING PIPING AND ALL CHILLED WATER PIPING WITH 1" FIBERGLAS 5 1/2 LB. DENSITY PIPING INSULATION WITH ASJ AS PER MANF. RECOMMENDATIONS. SEAL ALL BREAKS, JOINTS WITH ASJ TAPE.

SILICONE ALL FIXTURES TO ADJACENT WALLS, FLOORS OR COUNTERTOPS ETC.

ALL COLD PIPING INSULATION SHALL BE C/W WITH VAPOUR BARRIER.

ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

PRIOR TO REVIEWS BEING UNDERTAKEN.

ACOUSTIC INSULATION ON SUPPLY DUCTWORK, WHERE SHOWN ON THE DRAWINGS, SHALL BE 1" THICK FIBREGLASS RIGID COATED DUCT LINER. THE DUCT SIZES SHOWN ON THE DRAWING REPRESENTS THE FINAL INTERNAL SIZE REQUIRED. IMPALE ON WELDED STUDS SPACED 16" O.C. PAINT BREAKS AND JOINTS WITH BF-60-30N FIRE RETARDANT MASTIC. COAT EXPOSED EDGES WITH ADHESIVE. PROJECTING FASTENERS AND ENDS CUT OFF VERTICALLY FLUSH.

ALL SYSTEMS TO BE FULLY OPERATIONAL, AS-BUILT DRAWINGS SUPPLIED AND OPERATING AND MAINTENANCE

ALL DEFICIENCIES SHALL BE COMPLETED WITHIN TWO (2) WEEKS OF AN AGREED PERIOD OF TIME AFTER FINAL

MANUALS SUBMITTED. TWO (2) DAYS NOTIFICATION (IN WRITING) IS REQUIRED TO BE GIVEN TO THE CONSULTANTS

REVIEW AND A LETTER SHALL BE SUBMITTED TO THE CONSULTANT WITHIN THAT TIME ADVISING OF SUCH. FAILURE

TO COMPLETE WORK MAY RESULT IN WORK BEING DONE BY THE OWNER AND THE COSTS DEDUCTED FROM FINAL

WHERE MECHANICAL SERVICES ARE CONCEALED WITHIN WALLS, FLOORS OR CEILINGS AND CANNOT BE VISUALLY

IDENTIFIED, PROVIDE ELECTRONIC SCANNING DEVICES OR OTHER APPROVED MEANS TO LOCATE AND IDENTIFY

CONCEALED SERVICES PRIOR TO WORK START, MAKE GOOD ANY DAMAGE TO EXISTING MECHANICAL SERVICES AT NO

INSULATION ON PIPING IN FINISHED AREAS TO BE RECANVASSED OR COVERED WITH WHITE P.V.C. INSULATION COVER. 2.6. INSULATE CONDITIONED AIR DUCTWORK WITH 1" FIBERGLAS RFFRK FLEXIBLE OR RIGID DUCT INSULATION INSTALLED IN

PLUMBING

PROVIDE LABOUR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO SUPPLY AND INSTALLATION OF SYSTEMS SHOWN ON DRAWINGS. GENERALLY THIS SHALL INCLUDE:

DRAINAGE SYSTEM 3.1.1.

COST TO THE CONTRACT.

3.1.2. WATER SUPPLY SYSTEM 3.1.3. VENT SYSTEM

3.2. DRAINAGE SYSTEMS

PROVIDE COMPLETE SYSTEMS OF DRAINAGE AND VENTING TO SERVE ALL FIXTURES, EQUIPMENT, ETC. AS NOTED ON DRAWINGS AND IN ACCORDANCE WITH LOCAL CODES.

3.2.2. ALL DRAINAGE PIPING TO W.C.'S SHALL BE 4" DIAM. MIN.

3.2.3. CLEANOUTS: 3.2.3.1.

INSTALL CLEANOUTS AT ALL CHANGES OF DIRECTION, AT INTERVALS OF NOT OVER FIFTY FEET (50) IN HORIZONTAL RUNS, AT ALL POINTS WHERE OBSTRUCTIONS MIGHT BE FORMED AND AT ALL POINTS REQUIRED BY PLUMBING REGULATIONS OR SHOWN ON DRAWINGS.

PRESSURE WITHOUT LOSS FOR 4 HOURS. CONSULTANT'S REPRESENTATIVE SHALL WITNESS TESTS. GIVE 48 HOURS NOTICE IN ADVANCE OF TESTS.

3.13.1.4. NATURAL GAS SYSTEM - IN ACCORDANCE WITH LOCAL REGULATIONS. 3.14. HANGERS

3.14.1. WATER - GRINNELL CT65 PLATED CLEVIS. DRAINAGE - GRINNELL 260 CLEVIS. 3.14.2. 3.14.3.

INSTALL HANGERS 6 FT. ON CENTRE FOR PIPES UP TO 1". 8 FT. ON CENTRE FOR PIPES 1 1/4" AND LARGER. 3.15. FIXTURES

3.15.1. SK-1 SINK AND FAUCET PROVIDED BY KITCHEN STAINLESS STEEL FABRICATOR. REFER TO ARCHITECTURAL. OI-1 GREASE INTERCEPTOR: ZURN GREASE INTERCEPTOR MODEL GT2700-10. 10 GPM FLOW RATE. 2" INLET AND 3.15.2 OUTLET. RECOMMENDED FOR REMOVING AND RETAINING GREASE FROM WASTEWATER IN KITCHEN AND RESTAURANT AREAS WHERE FOOD IS PREPARED, GREASE TRAP IS CORROSION-RESISTANT COATED FABRICATED STEEL WITH NO-HUB CONNECTIONS, FLOW DIFFUSING BAFFLE, INTEGRAL TRAP, AND VENTED INLET FLOW CONTROL DEVICE.

3.15.3. SH-1 SHOWERS AND TRIM 3.15.3.1. THE SINGLE-HANDLE SHOWER TRIM SET SHALL BE MADE OF METAL CONSTRUCTION. PRODUCT SHALL INCLUDE SHOWERHEAD WITH ARM AND FLANGE. AND FACEPLATE WITH LEVEL HANDLE. FAUCET TRIM SHALL BE KOHLER MODEL K-T15611-4H-CP AND MIXING VALVE SHALL BE KOHLER MODEL K-304. 1.5 GPM FLOW RATE.

3.15.3.2. SHOWER DRAIN SHALL BE OF BRASS CONSTRUCTION. PRODUCT IS INTENDED FOR INSTALLATIONS WITH 2" CAULK CONNECTION. DRAIN SHALL BE LESS STOPPER, BODY, AND TAILPIECE. PRODUCT SHALL INCLUDE HOUSING, CONNECTION GASKET, AND PERFORATED STRAINER. DRAIN SHALL BE KOHLER MODEL K-9132-CP.

4. VENTILATION 4.1. DUCTWORK

GALVANIZED IRON SCHEDULE: MAX. SIDE GAUGES (USSG) BRACING NONE UP TO 24" 24 1" X 1" X 1/8" ANGLE, 25 TO 30" 4' FROM JOINT. 31 TO 40" 1" X 1" X 1/8" ANGLE

4' FROM JOINT. ROUND DUCT UP TO 19" 26 NONE WHERE DUCT WIDTH EXCEEDS 18" IN LARGEST DIMENSION, STIFFEN BY BREAKING SHEETS DIAGONALLY.

INCREASED TO SUIT. 4.1.4 DUCTWORK SHALL BE CONSTRUCTED AS RECOMMENDED IN ASHRAE GUIDE.

SEAL ALL JOINTS (NEW AND EXISTING) AIRTIGHT WITH DURO-DYNE S-2 DUCT SEALER OR EQUAL, IN STRICT ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS. PRIOR TO APPLICATION, DUCTWORK TO BE DRY AND FREE OF GREASE, ETC. USE 1/4" BEAD OF MATERIAL ALONG JOINTS. MATERIAL, WHEN DRY, TO HAVE 1/8" DEPTH EXTENDING 1" ON EACH SIDE OF JOINT OR SEAM.

DUCT SIZES SHOWN ARE INSIDE DIMENSIONS. IF DUCTS ARE ACOUSTICALLY LINED, OUTSIDE DUCT SIZE TO BE

SIZE ROUND DUCTS, INSTALLED IN PLACE OF RECTANGULAR DUCTS, FROM ASHRAE TABLE OF EQUIVALENT RECTANGULAR AND ROUND DUCTS.

ISSUED FOR CONSTRUCTION BY DATE REVISION/DESCRIPTION



DESIGNED APPROVED DRAWN CHECKED USER



SHEET TITLE

OTHERS). SPRING ISOLATORS OR OTHER MEANS, MAY BE ADDED TO THE RODS AS AN OPTION TO REDUCE

VIBRATION (BY OTHERS)

THE CITY OF WINNIPEG PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT MUNICIPAL ACCOMMODATIONS DIVISION 3-65 GARRY STREET, R3C 4K4

PROJECT WINNIPEG FORE PARAMEDIC SERVICES FIRE STATION #17

1501 CHURCH AVENUE BID OPP: 1013-2017

MECHANICAL SPECIFICATION

SCALE PROJECT No: SHEET No: AS SHOWN

DRAWING SHEET SIZE: A1 (841mm x 594mm) PLOT 1:1