

<p>A AMMETER, AMPERES, AWNINGS AB ANCHOR BOLT, ABOVE ABDN ABANDON AC ACOUSTICAL, ACOUSTICAL CEILING AC ALTERNATING CURRENT AC ASPHALTIC CONCRETE ACFL ACCESS FLOORING ACI AMERICAN CONCRETE INSTITUTE ACMU ACOUSTICAL CONCRETE MASONRY UNIT, ACOUSTICAL CMU ACP ACOUSTICAL PANELS ACST ACOUSTICAL ACT ACOUSTICAL TILE AD AREA DRAIN ADDL ADDITIONAL ADJ ADJACENT ADW DRY WEATHER AVERAGE AFD ADJUSTABLE FREQUENCY DRIVE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AG ACOUSTICAL, ACOUSTICAL GLASS AGGR AGGREGATE AHR ANCHOR AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION AJ ADJUSTABLE AL ALUMINUM ALKY ALKALINITY ALTN ALTERNATE AM AUTO-MANUAL AMRD ACOUSTICAL METAL ROOF DECKING ANDZ ANODIZE APPROX APPROXIMATE APVD APPROVED ARCH ARCHITECTURAL AR ANALOG RELAY AS AS SELECTED ATS AUTOMATIC TRANSFER SWITCH AUTO AUTOMATIC AUX AUXILIARY AVG AVERAGE AWW WET WEATHER AVERAGE ⊙ AT B BELL BAL BALANCE BETW BETWEEN BF BLIND FLANGE, BOTTOM FACE BFV BUTTERFLY VALVE BL BASELINE BFP BACKFLOW PREVENTER BLDG BUILDING BLK BLOCK BM BEAM, BENCHMARK BO BOTTOM OF B.O.B. BOTTOM OF BEAM BOD BOTTOM OF DUCT BOP BOTTOM OF PIPE BOT BOTTOM BRG BEARING BRK BRICK BRKR BREAKER BSP BLACK STEEL PIPE BV BALL VALVE, BLOCK VENT BVC BEGINNING OF VERTICAL CURVE C CONDUIT, CASEMENT °C DEGREE CELSIUS C TO C CENTER TO CENTER CAB CABINET CB CATCH BASIN, CIRCUIT BREAKER CC CENTER OF CIRCLE CC CONTROL CABLE CCP CENTRAL CONTROL PANEL CCS CENTRAL CONTROL SYSTEM CDF CONTROLLED DENSITY FILL CE CONSTRUCTION ENTRANCE CFM CUBIC FEET PER MINUTE CFS CUBIC FEET PER SECOND CHEM CHEMICAL CHKD CHECKERED CI CAST IRON CIP CAST IRON PIPE, CAST IN PLACE CIP CULVERT INLET PROTECTION CISP CAST IRON SOIL PIPE CJ CONSTRUCTION JOINT CKT CIRCUIT CL CENTERLINE CLDI CEMENT LINED DUCTILE IRON CLSF CONTROLLED LOW STRENGTH FILL CLG CEILING CLR CLEAR, CLEARANCE CLSM CONTROLLED LOW STRENGTH MATERIAL CMP CENTRAL MONITORING PANEL CMP CORRUGATED METAL PIPE CMU CONCRETE MASONRY UNIT CNTR COUNTER</p>	<p>CO CLEANOUT, CARBON MONOXIDE COL COLUMN, COLOR CONC CONCRETE COND CONDENSATE CONDTN CONDITIONED CONN CONNECTION CONSTR CONSTRUCTION CONT CONTINUED, CONTINUOUS, CONTINUATION CONTR CONTRACTOR COORD COORDINATE COP COPPER CP CENTER PIVOT CP-X CONTROL PANEL NO. X CPLG COUPLING CPRSR COMPRESSOR CPT CONTROL POWER TRANSFORMER, CARPET CPVC CHLORINATED PVC CR CONTROL RELAY CRS COLD ROLLED STEEL CRS CONSTRUCTION ROAD STABILIZATION CT CERAMIC TILE CT CURRENT TRANSFORMER CTC COMPUTER TERMINAL CABINET CTR CENTER CTRD CENTERED CTSK COUNTERSUNK CU CUBIC CU FT CUBIC FOOT CU IN CUBIC INCH CUH COPPER TUBING, HARD DRAWN CV CHECK VALVE CWR CABINET DOOR MOUNTED WASTE RECEPTACLE CY, CU YD CUBIC YARD CWS CLEAN WATER SERVICES D DEEP, DRAIN d PENNY NAIL SIZE DA DUAL ACTION DAS DATA ACQUISITION SYSTEM DBA DEFORMED BAR ANCHOR DBL DOUBLE DC DIRECT CURRENT DEG DEGREE DET DETAIL DF DOUGLAS FIR, DRINKING FOUNTAIN DDI DROP INLET DH DOUBLE HUNG DI DUCTILE IRON DIA DIAMETER DIAG DIAGONAL DIP DUCTILE IRON PIPE DIR DIRECTION DISCH DISCHARGE DN DOWN DO DISSOLVED OXYGEN DOL DIRECT-ON-LINE DP, DPNL DISTRIBUTION PANEL DR DOOR DS DOWNSPOUT DWG DRAWING DWL DOWEL △ DELTA E EAST, EMPTY EA EACH, EXHAUST AIR EB, EBCT EMPTY BED CONTACT TIME ECC ECCENTRIC EE EMERGENCY EYEWASH EDF EGG-SHAPED DIGESTER FACILITY EF EACH FACE, EXHAUST FAN EFF EFFICIENCY, EFFICIENT EFL EFFLUENT EIFS EXTERIOR INSULATION AND FINISH SYSTEM EL ELEVATION ELB ELBOW ELC ELECTRICAL LOAD CENTER ELEC ELECTRIC, ELECTRICAL ENGR ENGINEER EOP EDGE OF PAVEMENT ESC EROSION AND SEDIMENT CONTROL EP EXPLOSION PROOF, EDGE OF PAVING EQL EQUAL EQL SP EQUALLY SPACED EQPT EQUIPMENT ESC EROSION AND SEDIMENT CONTROL ETM ELAPSED TIME METER EVC END OF VERTICAL CURVE EW EACH WAY EWC ELECTRIC WATER COOLER EXH EXHAUST EXP EXPANSION, EXPOSED EXP AB EXPANSION ANCHOR BOLT EXP JT EXPANSION JOINT</p>	<p>EXST, EXIST EXISTING EXT EXTERIOR F DEGREE FAHRENHEIT FB FLAT BAR F, FU FUSE F, FX FIXED FAP FIRE ALARM PANEL FC FLEXIBLE CONDUIT FCA FLANGED COUPLING ADAPTER FCL2 FREE CHLORINE RESIDUAL FCO FLOOR CLEANOUT FACTY FACTORY FD FLOOR DRAIN FDN FOUNDATION FDR FEEDER FEXT FIRE EXTINGUISHER FF FINISHED FLOOR FG FINISH GRADE, FLOAT GLASS FH FLAT HEAD FHY FIRE HYDRANT FIG FIGURE FL FLOW LINE FLG FLANGE FL FLOOR FLEX FLEXIBLE FLH FLAT HEAD FLTR FILTER FLUOR FLUORESCENT FNSH FINISH FOB FLAT ON BOTTOM FOT FLAT ON TOP FP FIELD PANEL FPM FEET PER MINUTE FR FORWARD REVERSE FRP FIBERGLASS REINFORCED PLASTIC FSHS FOLDING SHOWER SEAT FT FOOT OR FEET FTG FOOTING FU FIXTURE UNIT FVNR FULL VOLTAGE NON-REVERSING FVR FULL VOLTAGE REVERSING FWD FORWARD G, GND GROUND GA GAUGE GAL GALLON GALV GALVANIZED GB GYPSUM BOARD GC GROOVED COUPLING GCMU GLAZED CONCRETE MASONRY UNITS GFA GROOVED FLANGE ADAPTER GFI GROUND FAULT INTERRUPTER GFR GROUND FAULT RELAY GH GREENHOUSE GL GLASS GPD GALLONS PER DAY GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GPS GLOBAL POSITION SYSTEM GRTG GRATING GSB GYPSUM SOFFIT BOARD GSP GALVANIZED STEEL PIPE GV GATE VALVE GVL GRAVEL GWB GYPSUM WALLBOARD GYP GYPSUM H HIGH, HORN OR HOWLER H2S HYDROGEN SULFIDE H.A.S. HEADED ANCHOR STUD HC HOLLOW CORE WOOD HCL HYDROCHLORIC ACID HDNR HARDENER HDNS HARDNESS HDR HEADER HDW HARDWARE HGL HYDRAULIC GRADE LINE HK HOOK HGT HEIGHT HH HANDHOLE HID HIGH INTENSITY DISCHARGE HK HOOK HM HOLLOW METAL HOA HAND-OFF-AUTO HOR HAND-OFF-REMOTE HORIZ HORIZONTAL HP HORSEPOWER HPT HIGH POINT HPU HYDRAULIC POWER UNIT HR HOSE RACK, HANDRAIL HV HOSE VALVE HVAC HEATING, VENTILATING AND AIR CONDITIONING HWL HIGH WATER LEVEL</p>	<p>IC INTERRUPTING CAPACITY ID INDUCED DRAFT, INSIDE DIAMETER IE INVERT ELEVATION I.F. INSIDE FACE IG INSULATING, INSULATING GLASS IN INCH INCAND INCANDESCENT INFL INFLUENT INUS INJECTIONS INST INSTANTANEOUS INSTM INSTRUMENT, INSTRUMENTATION INSUL INSULATION INVT INVERT IP INLET PROTECTION, INSTRUMENTATION PANEL IRRIG IRRIGATION ITG INSULATED TEMPERED GLASS ITX ISOLATION TRANSFORMER IU INTAKE UNIT IW IRRIGATION WELL J JALOUSIE JA JAL-awning JB JUNCTION BOX JAN JANITOR JCT JUNCTION JT JOINT K KEY GROUP, KEY INTERLOCK KIP THOUSAND POUNDS KIT KITCHEN K-PL KICKPLATE KSK KITCHEN SINK KV KILOVOLTS KVA KILOVOLT AMPERES KVAR KILOVOLT AMPERES REACTIVE KW KILOWATT L ANGLE, LENGTH LA LIGHTNING ARRESTER LAB LABORATORY LAM LAMINATE LAT LATITUDE LB POUND LC LIGHTING CONTACTOR LD COMBINATION LOUVER/DAMPER LDG LOADING DOCK LEL LOWER EXPLOSIVE LIMIT LF LINEAR FEET LG LONG LH LEFT HAND LHR LEFT HAND REVERSE LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL LNTL LINTEL LONG LONGITUDINAL LOS LOCK-OUT STOP PUSHBUTTON LP LIGHT POLE, LIGHTING PANEL, LOCAL PANEL LPT LOW POINT LR LATCHING RELAY LR LOCAL-REMOTE LR LONG RADIUS LS LABORATORY SINK LT LEFT LTG, LTS LIGHTS OR LIGHTING LTX LIGHTING TRANSFORMER LWL LOW WATER LEVEL MA MANUAL-AUTO MAS MASONRY MATL MATERIAL MAX MAXIMUM MB MACHINE BOLT MC MASONRY CLEARANCE MC MODULATE-CLOSE MCC MOTOR CONTROL CENTER MCJ MASONRY CONTROL JOINT MDO MEDIUM DENSITY OVERLAY MECH MECHANICAL MFD MANUFACTURED MFR MANUFACTURER MGD MILLION GALLONS PER DAY MH MANHOLE, MOUNTING HEIGHT MIN MINIMUM MISC MISCELLANEOUS</p>	<p>MJ MECHANICAL JOINT MLO MAIN LUGS ONLY MMDW DRY WEATHER MAXIMUM MONTH MMP MECHANICAL MOUNTING PANEL MMWW WET WEATHER MAXIMUM MONTH MO MANUAL OPERABLE, MASONRY OPENING MP METAL PANEL MPU MULTIPURPOSE UNIT MS MANUFACTURER'S STANDARD MSC MANUFACTURER SUPPLIED CABLE MSR GROUPED MOTOR CONTROL MT MOUNT MTD MOUNTED MTG MOUNTING MTS MANUAL TRANSFER SWITCH MTS MILL TYPE STEEL PIPE MU MULCHING MV MERCURY VAPOR MWS MAXIMUM WATER SURFACE N NORTH, NEUTRAL NA NOT APPLICABLE NA NON-AUTOMATIC NC NORMALLY CLOSED NEUT NEUTRAL NG NATURAL GAS NGVD NATIONAL GEODETIC VERTICAL DATUM NIC NOT IN CONTRACT N.O. NORMALLY OPEN NO., # NUMBER NOM NOMINAL NP NON-PROTECTED NPT NATIONAL PIPE THREADS NS NON-SHRINK NTS NOT TO SCALE O2 OXYGEN O TO O OUT TO OUT OA OVERALL, ODOROUS AIR OC ON CENTER OC OPEN-CLOSE (O) OCA OPEN-CLOSE-AUTO OCR OPEN-CLOSE-REMOTE OD OUTSIDE DIAMETER, OVERFLOW DRAIN O.F. OUTSIDE FACE OFCI OWNER FURNISHED, CONTRACTOR INSTALLED OFOI OWNER FURNISHED, OWNER INSTALLED OL OVERLOAD RELAY OO ON-OFF OOA ON-OFF-AUTO OOR ON-OFF-REMOTE OP OPAQUE PANEL, OUTLET PROTECTION OPER OPERATOR OPNG OPENING OPP OPPOSITE OSA OUTSIDE AIR OSC OPEN-STOP-CLOSE OSD OPEN SITE DRAIN OWSJ OPEN WEB STEEL JOIST OZ OUNCE P PROJECTED P PILASTER, PIPE PAVT PAVER TILE PB PUSHBUTTON SWITCH PC POINT OF CURVE, PHOTOCCELL PC PRECAST CONCRETE PANEL PCCP PRECAST CONCRETE CYLINDER PIPE PCV PRESSURE CONTROL VALVE PE PLAIN END PED PEDESTAL, PEDESTRIAN PEP POLYETHYLENE PIPE PEN. PENETRATION PFC POUNDS PER CUBIC FOOT PH PENTHOUSE pH HYDROGEN ION CONCENTRATION PH PHASE PI POINT OF INTERSECTION PIT PILOT TUBE TEST STATION PJF PREMOULDED JOINT FILLER PL PLATE (STEEL) PL PROPERTY LINE PLAM PLASTIC LAMINATE</p>	<p>PLAS PLASTER, PLASTIC PLC PROGRAMMABLE LOGIC CONTROLLER PLYWD PLYWOOD PNL PANEL PP POWER POLE P-P PUSH-PULL PPL POLYPROPYLENE LINED PR PAIR PRC POINT OF REVERSE CURVE PRCST PRECAST PREFAB PREFABRICATION PRES PRESSURE PRI PRIMARY PRM PERMANENT REFERENCED MARKER PROJ PROJECTION PROP PROPERTY PS PLASTIC SHEET, POLYCARBONATE SHEET PS PAINT SYSTEM PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PSIG POUNDS PER SQUARE INCH, GAUGE PT POINT OF TANGENCY PT POTENTIAL TRANSFORMER PT PRESSURE TREATED PTD PAPER TOWEL DISPENSER PTN PARTITION PV PLUG VALVE PVC POLYVINYL CHLORIDE PVI POINT OF VERTICAL INTERSECTION PVMT PAVEMENT PVT POINT OF VERTICAL TANGENCY QAA AVERAGE FLOW QMM MAXIMUM 30 DAY FLOW QPI PEAK INSTANTANEOUS FLOW QPP PEAK PUMPING FLOW QT QUARRY TILE R RISER R OR RAD RADIUS RA RETURN AIR RC REINFORCED CONCRETE RCP REINFORCED CONCRETE PIPE RCPT RECEPTACLE RD ROAD, ROOF DRAIN RDCR REDUCER RDW REDWOOD RECIR RECIRCULATION REF REFER OR REFERENCE REFR REFRIGERATE, REFRIGERANT REINF REINFORCED, REINFORCING, REINFORCE REQD REQUIRED RESIL RESILIENT RFS ROLL-UP FIRE SHUTTER RM ROOM RO ROUGH OPENING ROL RAISE-OFF-LOWER RPM REVOLUTIONS PER MINUTE RR RIPRAP RH RIGHT HAND RH RODHOLE RHR RIGHT HAND REVERSE RL RAIN LEADER RLS RUBBER LINED STEEL</p>
---	---	--	---	--	--

NOTE:
 1. CONTACT ENGINEER FOR ABBREVIATIONS USED BUT NOT SHOWN ON THIS DRAWING.

GENERAL NOTE:
 1. THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

APEGM
 Certificate of Authorization
 CH2M HILL Canada Ltd.
 No. 1441

CH2MHILL		KCS GROUP	
SNC-LAVALIN		ENGINEER'S SEAL	
DESIGNED BY:	G. GERMAN	CHECKED BY:	B. WILLIAMSON
DRAWN BY:	G. GERMAN	APPROVED BY:	B. WILLIAMSON
SCALE:	NTS	ISSUED FOR CONSTRUCTION BY:	
DATE:	2014/06/27	DATE:	
00	ISSUED FOR TENDER	06/2014	G.G. B.W.
NO.	REVISIONS	DATE	DESIGN CHECK
CONSULTANT NO.: 474248			

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
 SEWPPC UPGRADE/EXPANSION PROJECT
 ABBREVIATIONS
 (1)

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0102-DGAD-A003	001	00	A1