

ABBREVIATIONS CONTINUED

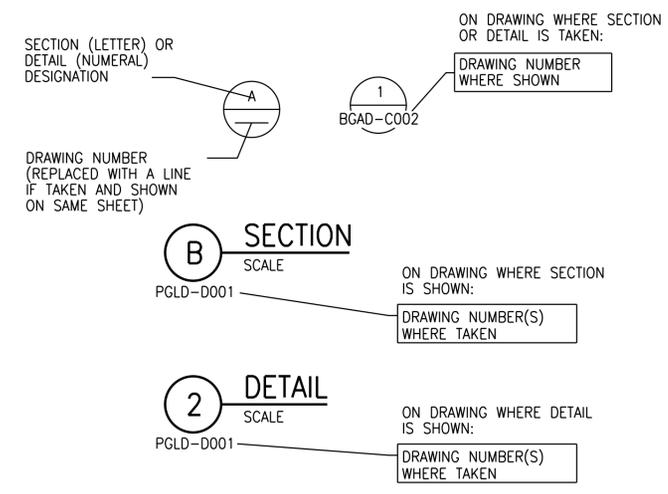
Table of abbreviations including PLAS (PLASTER, PLASTIC), PLC (PROGRAMMABLE LOGIC CONTROLLER), PLYWD (PLYWOOD), PM (POWER METER), PNL (PANEL), PO (PROCESS OVERFLOW), PP (POWER POLE), P-P (PUSH-PULL), PPL (POLYPROPYLENE LINED), PR (PAIR), PRC (POINT OF REVERSE CURVE), PRN (PRINTER), PRCST (PRECAST), PREFAB (PREFABRICATION), PRES (PRESSURE), PRI (PRIMARY), PRM (PERMANENT REFERENCED MARKER), PROJ (PROJECTION), PROP (PROPERTY), PS (PRIMARY SLUDGE, POWER SUPPLY), PSC (POLYCARBONATE SHEET, PAINT SYSTEM), PSP (POWER SUPPLY PANEL), PT (POINT OF TANGENCY), POT (POTENTIAL TRANSFORMER), PT (PRESSURE TREATED), PTD (PAPER TOWEL DISPENSER), PTN (PARTITION), PV (PROCESS VENT, PLUG VALVE), PVC (POLYVINYL CHLORIDE), PVI (POINT OF VERTICAL INTERSECTION), PVM (PAVEMENT), PVT (POINT OF VERTICAL TANGENCY), PW (POTABLE WATER), QAA (AVERAGE FLOW), QMM (MAXIMUM 30 DAY FLOW), QPI (PEAK INSTANTANEOUS FLOW), QPP (PEAK PUMPING FLOW), QT (QUARRY TILE), R (REFRIDGERANT, RISER, REACTOR, RADIUS), RAD (RADIUS), RA (RETURN AIR), RAS (RETURN ACTIVATED SLUDGE), RC (REINFORCED CONCRETE), RCP (REINFORCED CONCRETE PIPE), RCPT (RECEPTACLE), RCTR (REACTOR), RD (ROAD, ROOF DRAIN), RDCR (REDUCER), RDT (ROTARY DRUM THICKENER), RDW (REDWOOD), RECIR (RECIRCULATION), REF (REFER OR REFERENCE), REFR (REFRIGERATE), REINF (REINFORCED, REINFORCING, REINFORCE), REQD (REQUIRED), RES (RESERVOIR), RESIL (RESILIENT), RFS (ROLL-UP FIRE SHUTTER), RIO (REMOTE I/O), RM (ROOM), RO (ROUGH OPENING), ROL (RAISE-OFF-LOWER), RPM (REVOLUTIONS PER MINUTE), RR (RIPRAP), RH (RIGHT HAND), RH (ROD HOLE), RHR (RIGHT HAND REVERSE), RL (RAIN LEADER), RLS (RUBBER LINED STEEL), RRUB (RADIAL RUBBER), RS (RAW SEWAGE, RIGID STEEL), RST (REINFORCING STEEL), RT (RIGHT), RTU (REMOTE TERMINAL UNIT), RTN (RETURN), RTO (REGENERATIVE THERMAL OXIDIZER), RUB (RUBBER), RUBC (RUBBER CUSHIONED FLOORING), RUBS (RUBBER ESD CONTROL FLOORING), RW (RECIRCULATED WATER), R/W (RIGHT OF WAY), S (I-BEAM, SKID PACKAGE), S (SLOPE, SOUTH, SWITCH), SA (SODA ASH, SUPPLY AIR, SAMPLER), SATC (SUSPENDED ACCUSTICAL TILE CEILING), SB (SEDIMENT BASIN), SC (SCUM, SHOWER CURTAIN, SOLID CORE WOOD), SCADA (SUPERVISORY CONTROL AND DATA ACQUISITION), SCBR (SCRUBBER), SCC (SOLID CORE), SCFM (STANDARD CUBIC FEED PER MINUTE), SCHED (SCHEDULE), SCP (SECURITY ALARM PANEL), SCR (SILICON CONTROLLED RECTIFIER)

Table of abbreviations including SCS (SCREENINGS), SCU (SPEED CONTROL UNIT), SDP (SUB-DISTRIBUTION PANEL), SDWK (SIDEWALK), SE (SECONDARY EFFLUENT), SEA (SERVICE AIR), SEC (SECONDARY), SECT (SECTION), SED (SEDIMENTATION), SEW (SEWAGE), SF (SUPPLY FAN), SG (LAMINATED SAFETY GLASS, SAFETY), SGR (SWITCHGEAR), SGWB (SUSPENDED GYPSUM WALL BOARD), SH (SHEET), SHA (SURFACE HARDENING AGENT), SHD (SODIUM HYDROXIDE), SHS (SOLIDS HANDLING SYSTEM), SIM (SIMILAR), SK (SINK), SL (STOP LOGS), SLC (SLUDGE CAKE), SLG (SLUICE GATE), SLR (SEALER), SMLS (SEAMLESS EPOXY), SND (SAND), SNS (SAND SLURRY), SOI (SPRAY- ON INSULATION), SOLN (SOLUTION), SP (SPACE OR SPACES, SPANDREL PANEL, STORMPROOF), SPL (SPLITTER), SPEC (SPECIFICATIONS), SPECS (SPECIFICATIONS), SPD (SUMP PUMP DISCHARGE), SPG (SPACING), SPLY (SUPPLY), SQ (SQUARE), SR (SHORT RADIUS), SRS (STORM RELIEF SEWER), SS (START-STOP, SOFT STARTER), SST (STAINLESS STEEL), SSC (SUPERVISORY SET POINT CONTROL), ST (STORM DRAIN, STRAIGHT), STR (STRAINER), STA (STATUS, STATION), STD (STANDARD), STIF (STIFFENER), STIRR (STIRRUP), STL (STEEL), STRL (STRUCTURAL), STRUCT (STRUCTURE), SUB (DAF SUBNATANT), SUBFL (SUBFLOOR), SUBFL (SUBFLOOR), SUSP (SUSPENDED), SV (SOLENOID VALVE), SVIN (SHEET VINYL), SVM (SECURITY VIDEO MONITOR), SVR (SECURITY VIDEO RECORDER), SW (SWITCH, SEAL WATER), SWBD (SWITCHBOARD), SWGR (SWITCHGEAR), SYMM (SYMMETRICAL), T (THERMOSTAT, TREAD), T&B (TOP AND BOTTOM), T&G (TONGUE AND GROOVE), TA (TRANSFER AIR), TAN (TANGENT), TB (TERMINAL BOARD), TBC (TRAVELLING BRIDGE COLLECTOR), TBC (TUBING), TBS (THICKENED BOTTOM SLUDGE), TC (TIME TO CLOSE), TC (TURBIDITY CURTAIN), TCAD (TIME CLOSE AFTER DE-ENERGIZATION), TCAE (TIME CLOSE AFTER ENERGIZATION), TCE (TREATED CENTRATE), TDH (TOTAL DYNAMIC HEAD), TDR (TIME DELAY RELAY), TECH (TECHNICAL), TEL (TELEPHONE), TEMP (TEMPORARY, TEMPERATURE), TF (TOP FACE), TFG (TEMPERED FLOAT GLASS), TFS (THICKENED FERMENTED SLUDGE), TG (TEMPERED), TH (TOP-HINGED), THD (THREAD), THK (THICKNESS), THRU (THROUGH), TJB (TERMINAL JUNCTION BOX), TK (TANK), TL (TEFLON LINED PIPE), T.O. (TIME TO OPEN, TOP OF), TO (THERMAL OXIDIZER), TOAE (TIME OPEN AFTER ENERGIZATION), TOC (TOP OF CONCRETE)

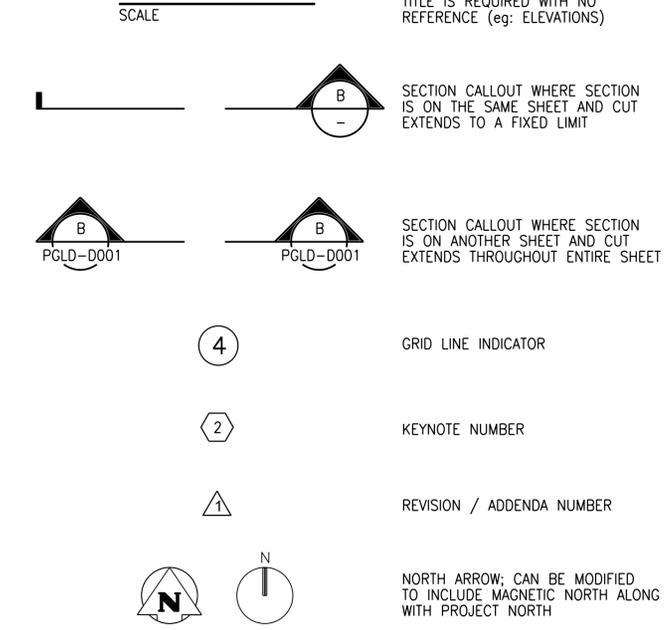
Table of abbreviations including TOC (TOP OF CURB), TOD (TIME ON DELAY, TOP OF DUCT), TOD (TOTAL OXYGEN DEMAND), TOF (TOP OF FOOTING), TOG (TOP OF GROUT, TOP OF GRATE), T.O.P. (TOP OF PARAPET), TOS (TOP OF SLAB), TOW (TOP OF WALL), TP (TURNING POINT), TR (TRANSOM, TRUSS), TRANS (TRANSFORMER, TRANSITION), TRANSV (TRANSVERSE), TRD (TREAD), TS (THIN SLUDGE, TEMPORARY SEEDING, TUBE STEEL), TSHT (THRESHOLD), TSS (TOTAL SUSPENSION SOLIDS), TST (TOP OF STEEL), TTC (TELEPHONE TERMINAL CABINET), TTD (TOILET TISSUE DISPENSER), TU (TERMINAL UNIT), TU-X (TREATMENT UNIT NO. X), TURB (TURBIDITY), TVSS (TRANSIENT VOLTAGE SURGE SUPPRESSOR), TW (TEMPERED WATER), TWAS (THICKENED WASTE ACTIVATED SLUDGE), TWP (TRANSLUCENT WALL PANEL), TX (TRANSFORMER), TYP (TYPICAL), U (MISCELLANEOUS EQUIPMENT NOT IN LIST), UH (UNIT HEATER), UON (UNLESS OTHERWISE NOTED), UNO (UNLESS NOTED OTHERWISE), UPS (UNINTERRUPTIBLE POWER SUPPLY), USB (UNIT SUBSTATION), UVR (UNDER VOLTAGE RELAY, ULTRA-VIOLET REACTOR), V (VENT, VALVE, VESSEL, PRESSURE VESSEL), V (VOLTMETER, VOLTS), VAC (VACUUM), VB (VAPOR BARRIER (RETARDER)), VC (VERTICAL CURVE), VCP (VITRIFIED CLAY PIPE), VCT (VINYL COMPOSITION TILE), VEL (VELOCITY), VERT (VERTICAL), VFD (VARIABLE FREQUENCY DRIVE), VHC (VOLATILE HYDROCARBONS), VIB (VIBRATION), VIF (VERIFY IN FIELD), VIN (VINYL), VINT, VT (VINYL TILE), VP (VERTICAL PIVOTED), VPS (VENEER PLASTER SYSTEM), VPC (POINT OF VERTICAL CURVATURE), VPI (POINT OF VERTICAL INTERSECTION), VPT (POINT OF VERTICAL TANGENT), VS (VERTICAL SLIDE), VTA (VENT TO ATMOSPHERE), VTR (VENT THRU ROOF), VWC (VINYL WALL COVERING)

Table of abbreviations including W (WEIR, WATER, WEST), W/ (WITH), WA (WASTE AIR), WAS (WASTE ACTIVATED SLUDGE), WC (WATER COLUMN), WEASTRIP (WEATHERSTRIP), WG (WIRE, WIRE GLASS), WGB (WASTE GAS BURNER), WH (WATTHOUR METER), WHD (WATTHOUR DEMAND METER), WP (WATERPROOF, WEATHERPROOF, WORKPOINT), WR (WASTE RECEPTACLE), WRB (WATER RESISTANT GWB), WS (WATER SURFACE, WATERSTOP, WELDED STEEL, WELDED WIRE FABRIC), WWPH (WET WEATHER PEAK HOUR), WWS (WASTEWATER SEWER), XFMR (TRANSFORMER)

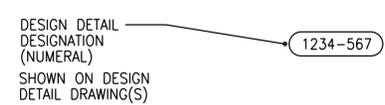
SECTION / DETAIL DESIGNATIONS



DRAWING TITLE



DESIGN DETAIL DESIGNATION



- NOTES:
1. ALL DESIGN DETAILS ARE TYPICAL AND MUST BE USED IF DESIGN DETAIL DESIGNATION IS NOT SHOWN
2. THE TERM STANDARD DETAIL, OR A FORM OF IT, IS SYNONOMOUS WITH DESIGN DETAIL. THE DESIGN DETAILS REPRESENT THE CHARACTER AND NATURE OF THE WORK REQUIRED THROUGHOUT THE PROJECT. ALL ASSOCIATED WORK SHALL BE IN ACCORDANCE WITH THE DESIGN DETAILS SHOWN WHETHER THE DETAILS ARE SPECIFICALLY REFERENCED OR NOT.

- 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.

Project information block including:
- APEGM Certificate of Authorization No. 1441
- CH2MHILL logo and SNC-Lavalin logo
- Design details table with columns: NO., REVISIONS, DATE, DESIGN, CHECK
- Engineer's Seal for William Williamson, Registered Professional Engineer
- The City of Winnipeg Water and Waste Department logo
- Project name: SOUTH END WATER POLLUTION CONTROL CENTRE SEWPCC UPGRADING/EXPANSION PROJECT
- General Abbreviations (2) and Symbols
- City Drawing Number: 1-0102-DDTL-A007, Sheet: 002, Rev: 04, Size: A1
- File Name: 1-0102-DDTL-A007-002.dgn