



**GENERAL NOTES**

- 1) THE PURPOSE OF THIS DETAIL IS TO PROVIDE THE CITY'S MINIMUM REQUIREMENTS FOR DESIGN AND CONSTRUCTION OF METER CHAMBERS. THIS DETAIL DOES NOT REPLACE THE REQUIREMENT FOR AN ENGINEERED DESIGN. ALL METER CHAMBER DESIGNS ARE TO BE SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE YUKON.
- 2) WATER METER CHAMBERS ARE TO BE LOCATED ON PRIVATE PROPERTY NOT MORE THAN 5.0m FROM PROPERTY LINE.
- 3) WATER METER CHAMBERS ARE TO BE CONSTRUCTED TO BE WATER TIGHT AND ARE TO BE INSULATED.
- 4) FROST COVERS ARE TO BE INSTALLED IN ALL METER CHAMBERS. THE FROST COVER LOCATION IS TO BE COORDINATED WITH LOCATION OF ACCESS LADDER.
- 5) WATER METER IS TO BE SENSUS HYDROVERSES, ABB WATERMASTERS OR EQUIVALENT AND IS TO MEET IP68 SPECIFICATIONS.
- 6) WATER METER AND CIRCULATION PUMP ARE TO BE SUFFICIENTLY SIZED FOR DEVELOPMENT.
- 7) WATER METER IS TO BE INSTALLED IN A HORIZONTAL POSITION AND IN STRICT ACCORDANCE WITH ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDING (BUT NOT LIMITED TO) INSTALLATION OF GROUNDING (IF APPLICABLE), REQUIRED DISTANCE BETWEEN METER AND PIPE DEFLECTIONS AND REQUIRED DISTANCE BETWEEN METER AND ELBOWS, TEES, GATE VALVES AND ALL OTHER RELEVANT FITTINGS.
- 8) ALL SPLICES REQUIRED FOR METER INSTALL ARE TO BE PROPERLY SEALED.
- 9) METER READOUT TO BE PROTECTED FROM WEATHER AND VANDALISM AND LOCATED IN AN ENCLOSED HEATED BOX MOUNTED ON A PRESSURE TREATED 4"x4" POST A MINIMUM 1.0m IN HEIGHT. THE READOUT LOCATION IS TO BE AS INDICATED ON THE ACCEPTED DEVELOPMENT PERMIT DRAWINGS.
- 10) METER READOUT IS TO BE SETUP TO DISPLAY IN CUBIC METERS.
- 11) ADEQUATE PIPE SUPPORTS ARE TO BE PROVIDED IN METER CHAMBER AS DETERMINED BY ENGINEER.
- 12) ALL VALVES AND CONNECTIONS ARE TO BE SUFFICIENTLY RESTRAINED.
- 13) SIZE AND SHAPE OF THE METER CHAMBER TO BE IN ACCORDANCE WITH ENGINEER'S DESIGN. THE ENGINEER'S DESIGN IS TO ENSURE THE FOLLOWING:
  - a) A MINIMUM CLEAR WORKING AREA OF 1m x 1m IS PROVIDED WITHIN THE CHAMBER;
  - b) A MINIMUM CLEARANCE OF 400mm TO BE PROVIDED FROM PIPING AND EQUIPMENT TO ALL METER CHAMBER WALLS AND METER CHAMBER FLOOR;
  - c) IF CIRCULAR IN SHAPE, THE MINIMUM SIZE OF THE METER CHAMBER IS 2.4m DIAMETER; AND
  - d) THE SIZE OF THE METER CHAMBER ACCOMMODATES ALL MINIMUM CLEARANCES REQUIRED TO MAINTAIN EQUIPMENT AS PER MANUFACTURER'S SPECIFICATIONS.
- 14) ACCESS LADDER RUNGS ARE TO BE POLYPROPYLENE STEEL REINFORCED OR 20# GALVANIZED STEEL (GALVANIZED AFTER FABRICATION) CAST IN WALL OF CHAMBER SPACED AT 400mm. LADDER TO BE LOCATED DIRECTLY UNDER ACCESS TO METER CHAMBER.
- 15) PHOTOGRAPHS OF THE METER CHAMBER INSTALLATION ARE TO BE SUBMITTED ALONG WITH THE SERVICE CARD FOR THE PROPERTY. PHOTOGRAPHS ARE TO INCLUDE ALL RELEVANT BELOW GRADE CONSTRUCTION LOCATED OUTSIDE OF METER CHAMBER INCLUDING (BUT NOT LIMITED TO) INSTALLATION OF PIPES, PIPE DEFLECTIONS, THRUST BLOCKS, RESTRAINTS, VALVES, AND SEALS/GASKETS.
- 16) METER CHAMBER CONSTRUCTION IS TO MEET ALL REQUIREMENTS OF CURRENT VERSIONS OF THE NBCC, CITY OF WHITEHORSE SERVICING STANDARDS MANUAL, CITY OF WHITEHORSE BYLAWS, OH&S REGULATIONS AND ALL OTHER APPLICABLE CODES AND REGULATIONS.



Engineering Department

DATE: APRIL, 2022

**STANDARD METER CHAMBER DETAIL WITH RETURN MAIN**

STD DWG

A4.10