

PART E
SPECIFICATIONS

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS, STANDARD DETAILS AND DRAWINGS

- E1.1 *The City of Winnipeg Standard Construction Specifications* in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.1.1 *The City of Winnipeg Standard Construction Specifications* is available in Adobe Acrobat (.pdf) format on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division internet site at <http://www.winnipeg.ca/matmgt>.
- E1.1.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E1.1.3 Further to GC:2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.2 The following Drawings are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing</u>
1	Brooklands / Brooklands West / Burrows / Manitoba Wastewater Sewer Districts – Asset Numbers
2	Brooklands / Brooklands West / Burrows / Manitoba Wastewater Sewer Districts – Pipe Sizes

- E1.2.1 The Contract Administrator will produce paper copies of the drawings upon request.

E2. CONFINED SPACE ENTRY

- E2.1 The Contractor's attention is drawn to the Province of Manitoba Workplace Safety and Health Act ("the Act"), and the Regulations and Guidelines there-under pertaining to Confined Entry Work and in particular the requirements for conducting hazard/risk assessments and providing personal protective equipment (PPE).
- E2.2 The Contractor shall provide Supplied Air Breathing Apparatus conforming to the requirements of the Act, Regulations and Guidelines where confined entry is required to allow for completion or inspection the Work.

E3. SEWER AND MANHOLE CLEANING

- E3.1 Further to Section 3.14 of CW2140, water supply for the Work may be taken from City of Winnipeg hydrants in accordance with the following procedure.
- Before the Work starts the Contractor shall advise the Contract Administrator of the total number of hydrants anticipated to be used at any one time during the Work. The Contract Administrator will then arrange for an equal number of hydrant use permits to be obtained for the contract. The number of hydrants used for water supply shall not exceed the number of permits taken out.
 - The Contractor shall submit a list of proposed hydrant locations to the Contract Administrator who will submit the locations to the City of Winnipeg Water Services Division (WSD) for approval. If a proposed hydrant location is not approved, the Contractor shall submit an alternate hydrant location for approval.
 - Only hydrants approved by WSD shall be used for water supply.

- E3.2 The Contractor is permitted to turn approved hydrants on and off provided the Contractor has received training by Water Services Division and the turn ons and turn offs are done in the presence of the Contract Administrator.
- E3.3 WSD may at their discretion, instruct the Contractor to make the following arrangements for hydrant turn ons and turn offs.
- (a) Contact WSD for hydrant turn ons and turn offs required between 0800 hours and 1500 hours Monday to Friday. Notice for turn ons and turn offs shall be provided on the previous business day.
 - (b) Contact Emergency Services Branch (986-2626) with a minimum of 2 hours notice for hydrant turn ons and turn offs required outside of the above hours.
 - (c) The Contractor shall wait at the hydrant from the requested turn on or turn off time until the City arrives to turn on or turn off the hydrant.
- E3.4 Hydrants approved for use shall be considered to be "in the Contractor's control" from the time the City has turned the hydrant on until the City has turned the hydrant off.
- E3.5 Between November 1 and April 30 of any year the Contractor shall take all necessary precautions to prevent freezing of hydrants and related appurtenances for hydrants in their control and shall be responsible to pump out hydrants turned off by Emergency Services.
- E3.6 If a hydrant or appurtenance is damaged due to freezing or improper turn on or turn off procedures while in the Contractor's control, WSD will assess the damage and determine if WSD will repair the damage or if the Contractor will be responsible to repair the damage. Costs for repairs completed by WSD will be deducted from payments owing the Contractor. Repairs completed by the Contractor will be at the Contractor's expense.
- E3.7 Provide a traffic ramp for hydrant connection hoses that cross roadways. Design and construct the ramp to not present a hazard to crossing vehicles, to ensure that no part of the hose is run over by a motor vehicle and is satisfactory to the Contract Administrator.
- E3.8 Erect and maintain signage warning oncoming traffic of hose crossings.

E4. SEWER AND MANHOLE INSPECTION

- E4.1 Further to CW2145, Section 3.4, provide inspection and condition coding operators conforming to the following conditions:
- (a) Revise Clause .1 to read "Provide a minimum of one operator on site at all times with each inspection unit who holds a valid certificate from the North American Pipeline Inspectors confirming NAAPI Level of Qualification for WRc Operators or an acceptable alternate training program. Ensure each operator is fully trained in all aspects of sewer inspection and capable of making accurate observations and recording all conditions that may be encountered in the sewers."
 - (b) Revise Clause .3 to read "Perform condition coding using operators who hold a valid certificate from the North American Pipeline Inspectors confirming NAAPI Level of Qualification for WRc Operators or an acceptable alternate training program."
 - (c) Revise Clause .4 to read "Submit a valid copy of the NAAPI WRc Operators Certificate for each operator to the Contract Administrator at least 10 working days before starting the inspection work."
- E4.2 Include measured manhole riser diameters on the header screen of manhole inspections. Revise Clause .1.1 of CW2145, Section 3.6 Manhole Condition Coding, to read :

Header Description:

Manhole Street:	e.g. Berry St. at Wellington Av.
Location Description:	e.g. Intersection
Manhole ID Number:	e.g. MH00005328
Measured Distance	e.g. 3.8 m
Measured Riser Diameter	e.g. 750 mm
12:00 Reference Position:	e.g. North

E4.3 Further to CW2145, Section 3.6, use the following Naming Conventions when entering street and place names in sewer or manhole inspection records:

Term	Naming Convention	Term	Naming Convention
Street	ST	First	1ST
Avenue	AV	Second	2ND
Boulevard	BV	Third	3RD
Road	RD	Fourth	4TH
Bay	BY	Fifth	5TH
Crescent	CR	Sixth	6TH
Lane	LN	North of	N OF
Drive	DR	South of	S OF
Place	PL	East of	E OF
Way	WY	West of	W OF
Cove	CV	North Property Line	NPL
Highway	HW	South Property Line	SPL
		East Property Line	EPL
		West Property Line	WPL
		Centre Line	CL

E4.3.1 Use uppercase lettering for all street/place naming and location descriptions. Where possible reference street locations relative to the direction of flow. Reference sewer location using street name and start/end manhole locations.

- Street/Place - Enter the street name, followed by a Naming Convention, if required, in brackets noting its location within the right of way.
 - e.g. OAK ST (N OF CL)
- Location Description - Enter location of start manhole relative to closest upstream Cross Street, followed by "TO", followed by location of end manhole relative to closest upstream Cross Street.
 - e.g. 3RD MH N OF CORYDON AV TO 4TH MH N OF CORYDON AV

APPENDIX A

WORK PROGRAM

**BROOKLANDS / BROOKLANDS WEST / BURROWS / MANITOBA
WASTEWATER SEWER DISTRICTS**