

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 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:

<i>Drawing Title</i>	<i>Drawing No.</i>	<i>File Name</i>	<i>Size</i>
LANE PAVEMENT			
LYNDALE DR. TO CONISTON ST.			
CONISTON ST. TO STA. 2+40.000	41282-C-01	65-2004 Drawing 01-R0.pdf	
STA. 2+40.000 TO LYNDALE DR.	41282-C-02	65-2004 Drawing 02-R0.pdf	
LLOYD ST. TO STA. 1+36.620			
PAVEMENT CONSTRUCTION			
CHEVRIER BOULEVARD.			
DOVERCOURT DR. TO STA.2+10.000	41282-C-03	65-2004 Drawing 03-R0.pdf	
STA.2+10.000 TO STA. 3+40.000	41282-C-04	65-2004 Drawing 04-R0.pdf	
STA.3+40.000 TO STA. 4+70.000	41282-C-05	65-2004 Drawing 05-R0.pdf	
STA.4+70.000 TO STA. 6+10.000	41282-C-06	65-2004 Drawing 06-R0.pdf	
STA.6+10.000 TO STA. 7+50.000	41282-C-07	65-2004 Drawing 07-R0.pdf	
STA.7+50.000 TO STA. 8+80.000	41282-C-08	65-2004 Drawing 08-R0.pdf	
STA.8+80.000 TO WAVERLEY ST.	41282-C-09	65-2004 Drawing 09-R0.pdf	

E2. OFFICE FACILITIES

- E2.1 The Contractor shall supply office facilities meeting the following requirements:
- The field office shall be for the exclusive use of the Contract Administrator.
 - The building shall be conveniently located near Chevrier Boulevard.
 - The building shall have a minimum floor area of 15 square metres, a height of 2.4m with a window and a door entrance with a suitable lock.
 - The building shall be furnished with one desk, table 3 m x 1.2 m, and a minimum of 8 chairs.
 - A portable toilet shall be located near the field office building. The toilet shall have a locking door and be for the exclusive use of the Contract Administrator and other personnel from the City.
 - The field office building and the portable toilet shall be cleaned on a weekly basis immediately prior to each site meeting. The Contract Administrator may request additional cleaning when he deems it necessary.

- E2.2 The Contractor shall be responsible for all installation and removal costs, all operating costs, and the general maintenance of the office facilities.
- E2.3 The office facilities will be provided from the date of the commencement of the Work to the date of Substantial Performance.

E3. PROTECTION OF EXISTING TREES

- E3.1 The Contractor shall take the following precautionary steps to prevent damage from construction activities to existing boulevard trees within the limits of the construction area:
- a) The Contractor shall not stockpile materials and soil or park vehicles and equipment on boulevards within 2 metres of trees.
 - b) Trees identified to be at risk by the Contract Administrator are to be strapped with 25 x 100 x 2400mm wood planks, or suitably protected as approved by the Contract Administrator.
 - c) Excavation shall be performed in a manner that minimizes damage to the existing root systems. Where possible, excavation shall be carried out such that the edge of the excavation shall be a minimum of 1.5 times the diameter (measured in inches), with the outcome read in feet, from the closest edge of the trunk. Where roots must be cut to facilitate excavation, they shall be pruned neatly at the face of excavation.
 - d) Operation of equipment within the dripline of the trees shall be kept to the minimum required to perform the work required. Equipment shall not be parked, repaired, refuelled; construction materials shall not be stored, and earth materials shall not be stockpiled within the driplines of trees. The dripline of a tree shall be considered to be the ground surface directly beneath the tips of its outermost branches. The Contractor shall ensure that the operations do not cause flooding or sediment deposition on areas where trees are located.
 - e) Work on-site shall be carried out in such a manner so as to minimize damage to existing tree branches. Where damage to branches does occur, they shall be neatly pruned.
- E3.2 All damage to existing trees caused by the Contractor's activities shall be repaired to the requirements and satisfaction of the Contract Administrator and the City Forester or his designate.
- E3.3 No separate measurement or payment will be made for the protection of trees.
- E3.4 Elm trees cannot be trimmed between April 1 and July 31, inclusive.

E4. TRAFFIC CONTROL

- E4.1 Further to clauses 3.6 and 3.7 of CW 1130-R1:
- (a) Where directed, the Contractor shall construct and maintain temporary asphalt ramps to alleviate vertical pavement obstructions such as manholes and planing drop-offs to the satisfaction of the Contract Administrator. No measurement for payment will be made for this work.
 - (b) In accordance with the Manual of Temporary Traffic Control, the Contractor ("Agency" in the manual) shall make arrangements with the Traffic Services Section of the City of Winnipeg to place all temporary regulatory signs. The Contractor shall bear all costs associated with the placement of temporary traffic control devices by the Traffic Services Section of the City of Winnipeg in connection with the works undertaken by the Contractor.

E5. TRAFFIC MANAGEMENT

E5.1 Further to clause 3.7 of CW 1130:

- E5.1.1 Chevrier Boulevard between Dovercourt Dr. and Sta. 5+65 may be closed to through traffic only after completion of the Phase 1 works, including concrete pavement, which permits full public accessibility to the water standpipe and the public works yards from Chevrier Boulevard.
- E5.1.2 The Contractor will be permitted to close the lanes to vehicular access during the construction of the concrete pavements.

E6. WATER USED BY CONTRACTOR

E6.1 Further to clause 3.7 of CW 1120-R1, the Contractor shall pay for all costs associated with obtaining water in accordance with the Waterworks By-law. Sewer charges will not be assessed for water obtained from a hydrant.

E7. SURFACE RESTORATIONS

E7.1 Further to clause 3.3 of CW 1130-R1, when Total Performance is not achieved in the year the Contract is commenced, the Contractor shall temporarily repair any Work commenced and not completed to the satisfaction of the Contract Administrator. The Contractor shall maintain the temporary repairs in a safe condition as determined by the Contract Administrator until permanent repairs are completed. The Contractor shall bear all costs associated with temporary repairs and their maintenance.

E8. REMOVE & RESTORE CHAIN LINK FENCING

E8.1 GENERAL

The General Conditions and Standard Provisions of the latest edition of the City of Winnipeg Standard Construction Specification shall apply to and be part of this Specification.

E8.2 DESCRIPTION

This Specification shall cover the temporary removal and restoration of the existing chain link fence to ensure access to the water standpipe during "Phase 1 Chevrier Roadworks". The work to be done shall include the furnishing of all superintendence, overhead, labour, material, equipment, tools, supplies and all other things necessary for an incidental to the satisfactory performance and completion of all work as hereinafter specified.

E8.3 MATERIALS

E8.3.1 Fencing Materials

- (a) Supply all fencing materials in accordance with Section 5 of CW 3550-R26.

E8.4 CONSTRUCTION METHODS

E8.4.1 General Requirements

- (a) Survey bars and control monuments must be protected during construction in accordance with Clause 4 of CW 110, Standard Provisions.
- (b) The Contractor shall reuse the existing fabric, posts and rails for the temporary relocation and re-instatement of the chain link fence.
- (c) Additional posts, rails, fabric, wire or braces shall be included with the Work and are to be incorporated into the unit price on From B: Unit Price.
- (d) Ensure the removal methods do not bend or otherwise damage the existing fabric or associated fencing materials.
- (e) Install temporary posts at the locations shown on the drawings as per CW 3550-R2. Surface mounted posts may be substituted for in-ground installation provided adequate vertical support and City Yard security is provided, to the satisfaction of the Contract Administrator.
- (f) Erect fabric and secure to firmly to the posts and stretch taut.
- (g) Reinstate fence to the original alignment and grade upon completion of the Phase 1 construction. Install posts to match existing conditions.

E8.5 MEASUREMENT AND PAVEMENT

E8.5.1 Remove & Restore Chain Link Fencing

- (a) Removal and restoration of existing chain link fencing will be measured on a linear basis. The quantity to be paid for will be the actual number of linear metres removed and restored in accordance with this specification and accepted by the Contract Administrator, as computed from measurements made by the Contract Administrator.