



### 232-2010 ADDENDUM 3

#### INKSTER BOULEVARD WIDENING AND REHABILITATION: PART 1 – BROOKSIDE BOULEVARD TO KEEWATIN STREET, PART 2 – 430 M WEST OF OAK POINT HIGHWAY TO BROOKSIDE BOULEVARD

### URGENT

**PLEASE FORWARD THIS DOCUMENT TO  
WHOEVER IS IN POSSESSION OF THE BID  
OPPORTUNITY**

ISSUED: May 11, 2010  
BY: Wayne Jaworski  
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**THIS ADDENDUM SHALL BE INCORPORATED  
INTO THE BID OPPORTUNITY AND SHALL  
FORM A PART OF THE CONTRACT  
DOCUMENTS**

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**Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.**

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### PART E – SPECIFICATIONS

- Add: E38.2.4 (c) All reinforcing steel for the precast wall panels and precast post shall be hot dipped galvanized.
- (i) Shop Applied
    - a. The galvanizing shall be shop applied and strictly in accordance with ASTM A767M-05 to a retention equal to a Class II level (610 gm/rn2), except as otherwise specified herein.
    - b. Preclean reinforcing steel using acceptable methods to produce an acceptable surface for quality hot-dip galvanizing.
    - c. Handle all articles to be galvanized in such a manner as to avoid any mechanical damage and to minimize distortion.
    - d. The surface finish shall be continuous, adherent, as smooth and evenly distributed as possible, and free from any defect detrimental to the stated end use of the coated article.
    - e. Coating adhesion shall withstand normal handling consistent with the nature and thickness of the coating and normal use of the article.
    - f. Sheared ends of bars shall be coated with a zinc-rich formulation before rusting occurs and before shipment to the job site.
  - (ii) Bar Accessories
    - a. Bar accessories for Galvanized reinforcing bars shall be of the types suitable for galvanized reinforcement and acceptable to the Contract Administrator.
- Add: E38.2.4 (d) Galvanizing Touch-Up and Field-Applied Galvanizing
- (i) Field-applied galvanizing, to touch-up damaged hot-dip galvanizing shall be done with self-fluxing, low temperature, zinc-based alloy rods in accordance with ASTM A780-01 (2006) for "Repair of Damaged Hot-Dip Galvanized Coatings."

- (ii) Approved products are:
  - Galvalloy as manufactured by Metalloy Products Company, P.O. Box No. 3093, Terminal Annex, Los Angeles, California; and
  - Welco Gal-Viz Galvanizing Alloy, as manufactured by Thermocote Welco, Highway 161 York Road, Kings Mountain, north Carolina. Locally, both products are available from Welder Supplies Limited, 25 McPhillips Street, Winnipeg.

Add: E38.2.4 (e): Fabrication of Galvanized Reinforcing Steel

- (i) Galvanized reinforcement shall be bent to the proper shape in a plant that has suitable devices for bending as recommended in the Reinforcing Steel Institute of Canada (RSIC) Manual at Standard Practice. Heating shall not be used as an aid in bending.
- (ii) The Fabricator shall consult with the Contract Administrator and hot-dip Galvanizer regarding potential handling problems during the galvanizing process which may require modification of design prior to proceeding with fabrication.
- (iii) Avoid unsuitable marking paints. Consult with the galvanizer about removal of grease, oil, paint, and other deleterious material prior to fabrication.
- (iv) Remove by blast cleaning or other methods surface contaminants and coatings which would not be removable by the normal chemical cleaning process in the galvanizing operation.
- (v) Hooks or bends should be smooth and not sharp. When bars are bent cold prior to galvanizing, they shall be fabricated to a bend diameter equal to or greater than indicated in the following table:

<b>Table E24.1 Minimum Finished Bend Diameters</b>	
<b>Bar No.</b>	<b>Bend Diameters (mm)</b>
10M	60
15M	90
20M	100
25M	150
30M	200
35M	250

Revise: E38.2.7 (b): Pre-cast Concrete Noise Barrier Wall Panels

- (b) Texture of panels to be as shown on the Construction Drawings. The exposed concrete surfaces are to be of a uniform colour from one panel to another. Painting or staining of panels is not required. Orientate panels so that strongly textured faces are toward the roadway.

Add: E38.3.2 (h): Placing Galvanized Reinforcement

- (i) Bars shall be tied at all intersections, except where spacing is less than 250 mm in each direction, when alternate intersections shall be tied. Welding or tack welding or reinforcing steel will not be allowed.

Add: E38.3.2 (i): Lapping Galvanized Reinforcement

- (i) For lapping Galvanized bars at the joints and intersection, an ample supply of annealed wire at least 1.5 mm in diameter shall be provided. Proper cutting pliers shall be used and the bending and typing of the wires done as neatly as possible. Twisted ends of the tie wire shall be bent away from forms and surfaces so that they do not project into the concrete cover over the reinforcement.

Add: E38.3.2 (j): Field Applied Touch-Up Galvanizing

- (i) Any areas of damaged galvanizing reinforcing steel shall receive field-applied touch-up galvanizing, in accordance with ASTM A780-01 (2006).