



## 866-2017B ADDENDUM 3

### CONSTRUCTION OF 1.2 KM OF 1800-2400 MM DIAMETER TRUNK SEWER COCKBURN AND CALROSSIE COMBINED SEWER RELIEF WORKS (CONTRACT 5)

#### **URGENT**

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

ISSUED: February 20, 2018  
BY: Ray Offman, P.Eng.  
TELEPHONE NO. 204 896-1209

**THIS ADDENDUM SHALL BE INCORPORATED  
INTO THE BID OPPORTUNITY AND SHALL  
FORM A PART OF THE CONTRACT  
DOCUMENTS**

Template Version: A20160708

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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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#### **DRAWINGS**

Replace: 866-2017B \_Drawing\_LD-8424 with 866-2017B \_Addendum\_3 Drawing LD-8424-R1

#### **Questions and Answers**

- Question 1: Will a Robar 1946-36.00X27.34-.25x14 be acceptable as an alternative to the coupler shown on Drawing LD-8430?
- Answer 1: Yes. The proposed Robar coupler will be an acceptable alternative to the reducing coupler shown on Drawing LD-8430. Prior to ordering/manufacturing couplers of any sort, the Contractor shall confirm the pipe OD.
- Question 2: In the Notes on Drawing LD-8424 there are references to MH-52 & MH-53 but these Manholes are not noted elsewhere in the document. Are they part of the project?
- Answer 2: MH-52 and MH-53 are not part of this contract. There are two notes on LD-8424 regarding the installation that were not removed when the two manholes were taken out of Contract 5. The Drawing has been revised with these notes removed.
- Question 3: Do you have additional information regarding the as-built locations of the 2700 mm pipe from the Taylor Avenue to the Storm Retention Basin, and the 1350 mm stub-out at Sparling Avenue?
- Answer 3: The pipe installations were part of two separate contracts (contracts 3 & 4). As built drawings for both contracts are not complete, as some work remains on both, however all pipes are installed. The pipes were installed in general conformance with the design drawings with the exception of the stub-out on Sparling Avenue which was relocated to

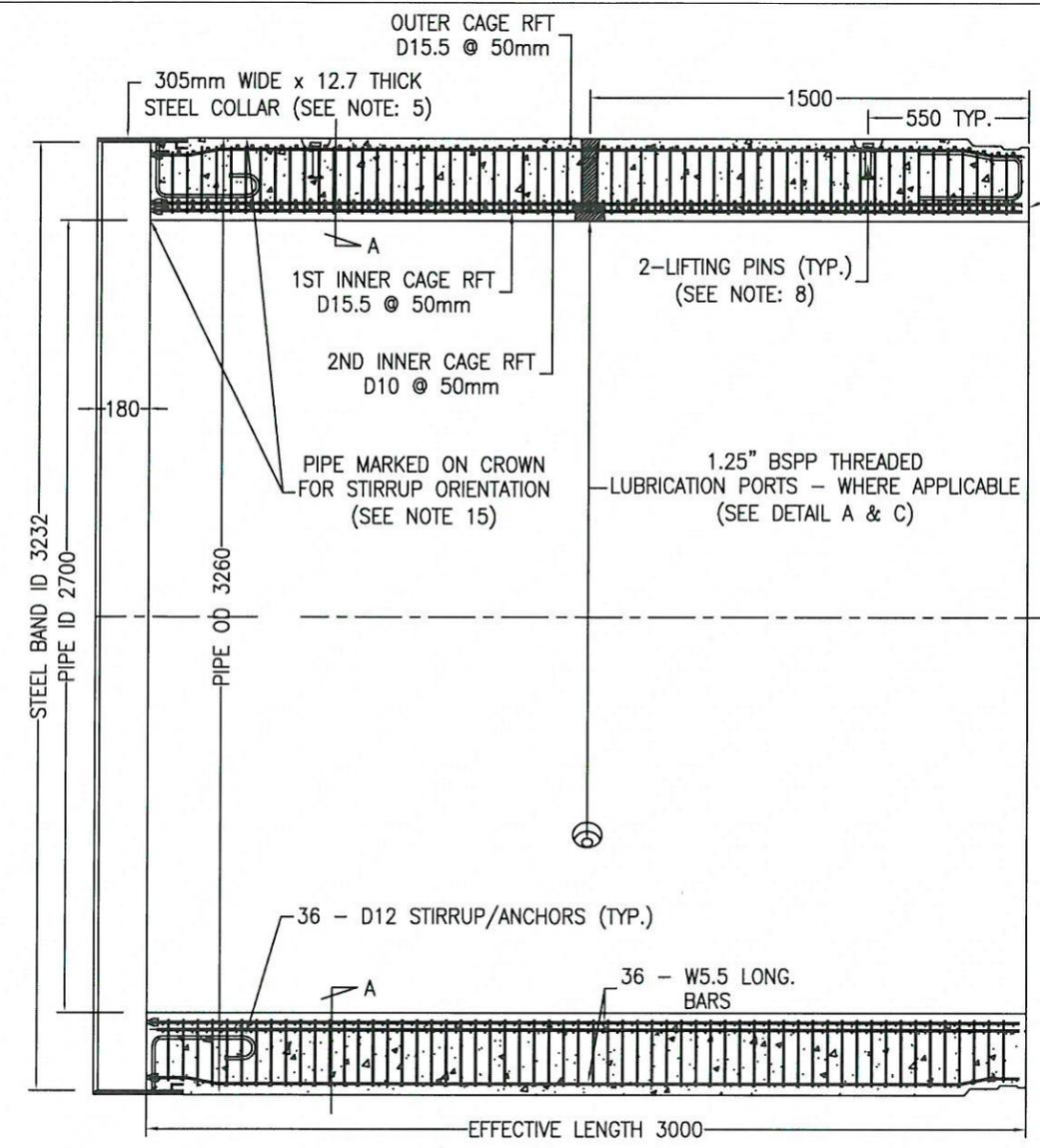
approximately 15 m east of the tee (noted in the bid docs for Contract 5 under E13.2.1.b). Design drawing for both projects showing the general location and elevations of the pipes are available on the City of Winnipeg web site under closed bid opportunities.

<http://winnipeg.ca/finance/findata/matmgt/bidres/Past/2017.asp>

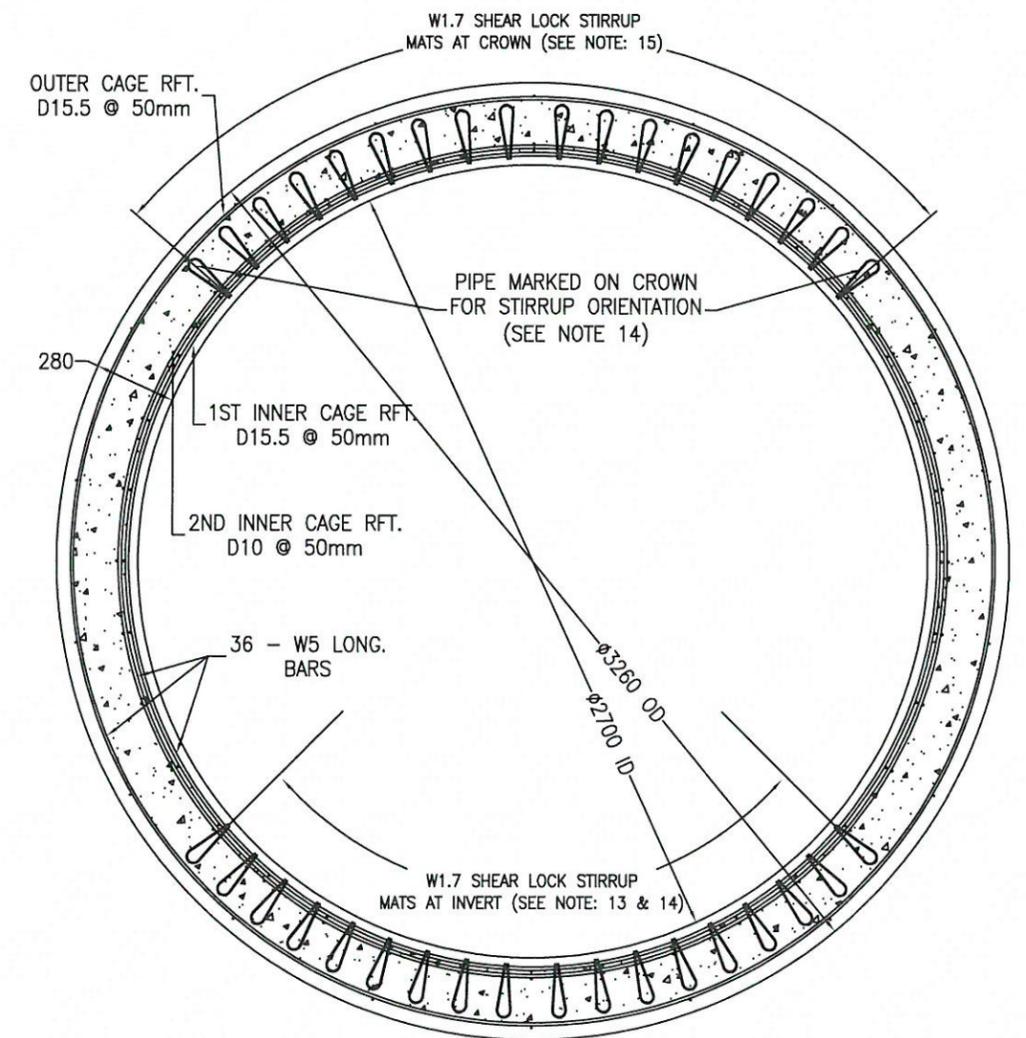
The pipe from Taylor south to the south side of the CN rail lines was installed under bid **748-2016**. The remainder of the pipe south of the CN rail lines to the Storm Retention Basin was installed under bid **388-2017**.

Question 4: Can you please provide the Shop Drawings for the installed 2700 mm pipe?

Answer 4: Yes. See attached.

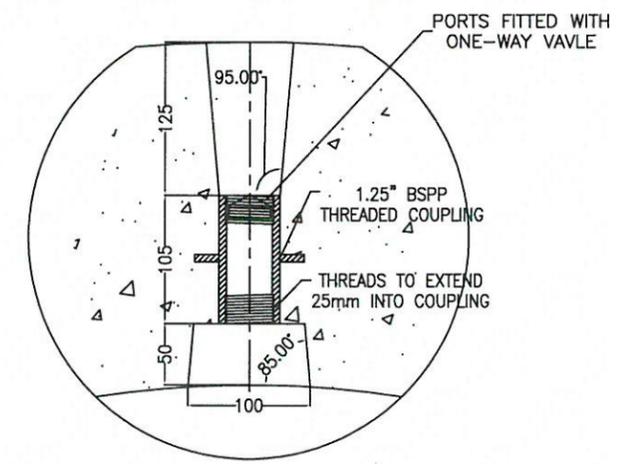


REFER TO DRAWING # 2700\_C\_S.02 FOR JOINT DETAIL

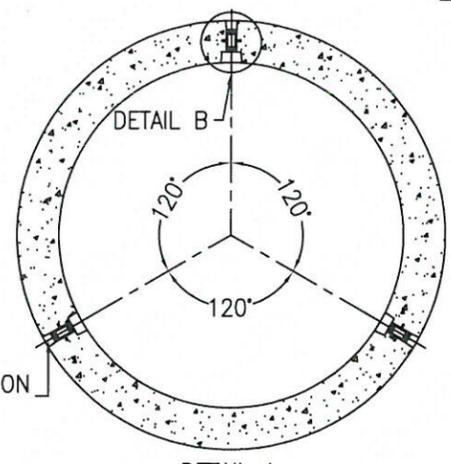


SECTION A-A

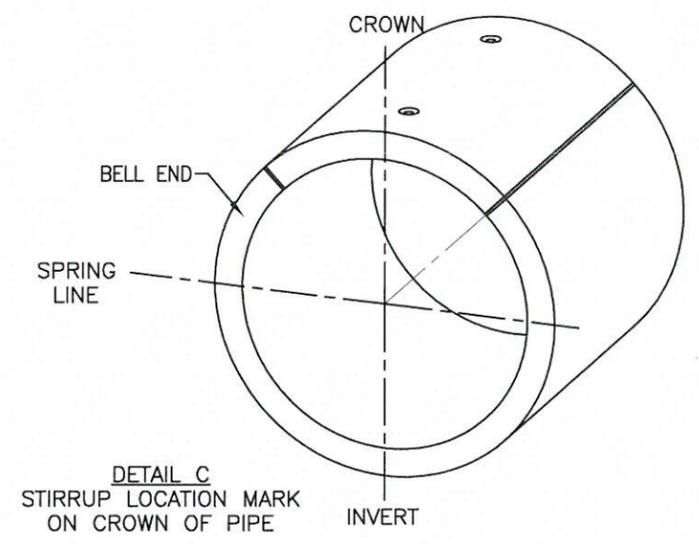
QTY	MARK #	DESCRIPTION:
125	MT2700X300CS	2700 ID x 3260 OD x 3000 LG CLASS V MT STD PIPE
45	MT2700X300CP	2700 ID x 3260 OD x 3000 LG CLASS V MT STD PIPE w/ PORTS



DETAIL B



DETAIL A LUBRICATION PORT LOCATION (WHERE APPLICABLE)



DETAIL C STIRRUP LOCATION MARK ON CROWN OF PIPE

- NOTES:**
- PIPE IS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C76 CLASS V; PIPE JOINT COMPLIES TO ASTM C443
  - 28 DAY DESIGN CONCRETE COMPRESSIVE STRENGTH OF 48.3 MPA (PIPE WILL NOT BE SHIPPED BEFORE ATTAINING 100% OF COMPRESSIVE STRENGTH)
  - CONCRETE COVER OVER REINFORCING STEEL SHALL BE MINIMUM 25mm FROM OUTSIDE AND MINIMUM 30mm FROM INSIDE
  - MAIN REINFORCEMENT OF HELICAL WIRE AND LONG. BARS ARE FROM DEFORMED WIRES TO ASTM A1064 WITH YIELD STRENGTH OF 500 MPA
  - STEEL BELL COLLAR FROM 1/2" THICK STEEL PLATE TO ASTM A36 WITH MINIMUM 10 MILS DFT OF AMERCOAT 2 EPOXY COATING ON SURFACE
  - RUBBER GASKETS ARE GRS & BLOCK SEAL
  - JOINT DESIGNED TO MAXIMUM EXTERNAL HYDRO STATIC PRESSURE OF 30psi (207kPa)
  - LIFTING PINS ARE DS P.52 SWIFT LIFTS -2 PER PIPE- 20T x 8" LENGTH
  - APPROXIMATE WEIGHT OF STANDARD PIPE IS 20,000 KG
  - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED
  - CONCRETE MEETS CSA A3001 DESIGNATION OF TYPE Hsb FOR CEMENTING MATERIALS
  - RECOMMENDED MAXIMUM JACKING FORCE = 4,000 METRIC TONS WITH FULL CONCENTRIC CONTACT/NO DEFLECTION; MAXIMUM JACKING FORCE = 2,500 METRIC TONS WITH FULL ECCENTRIC CONTACT/MAX 0.21" DEFLECTION
  - SHEAR REINFORCEMENT AND STIRRUP MATS ARE FROM COLD DRAWN WIRES TO ASTM A1064 WITH MINIMUM YIELD STRENGTH OF 400 MPA
  - STIRRUP MATS -8 PER PIPE- HAVE 8 LOOPS SPACED @ 6" C.C. ALONG 42" WIDTH, 2" SPACING ALONG 56" LENGTH, LOOPS ARE W1.7 WIRES WITH 7.25" AMPLITUDE
  - SHEAR STIRRUP LOCATION WILL BE MARKED ON THE PIPE EXTERIOR; AS SHOWN ON DETAIL C MARKINGS MADE LONGITUDINALLY AND AT BOTH ENDS, PIPE MUST BE ORIENTATED IN THE FIELD WITH THE DESIGNED INVERT AND CROWN IN PROPER POSITION, AND CENTERED ON THE SHEAR STIRRUPS AT THE TOP AND BOTTOM QUADRANT; AS SHOWN IN SECTION A-A

REV:	DATE:	RECORD OF CHANGE:	BY:	CHECKED BY:
1	MAR 24/17	ADDED NOTE FOR JOINT SPEC	AR	BR

## DECAST

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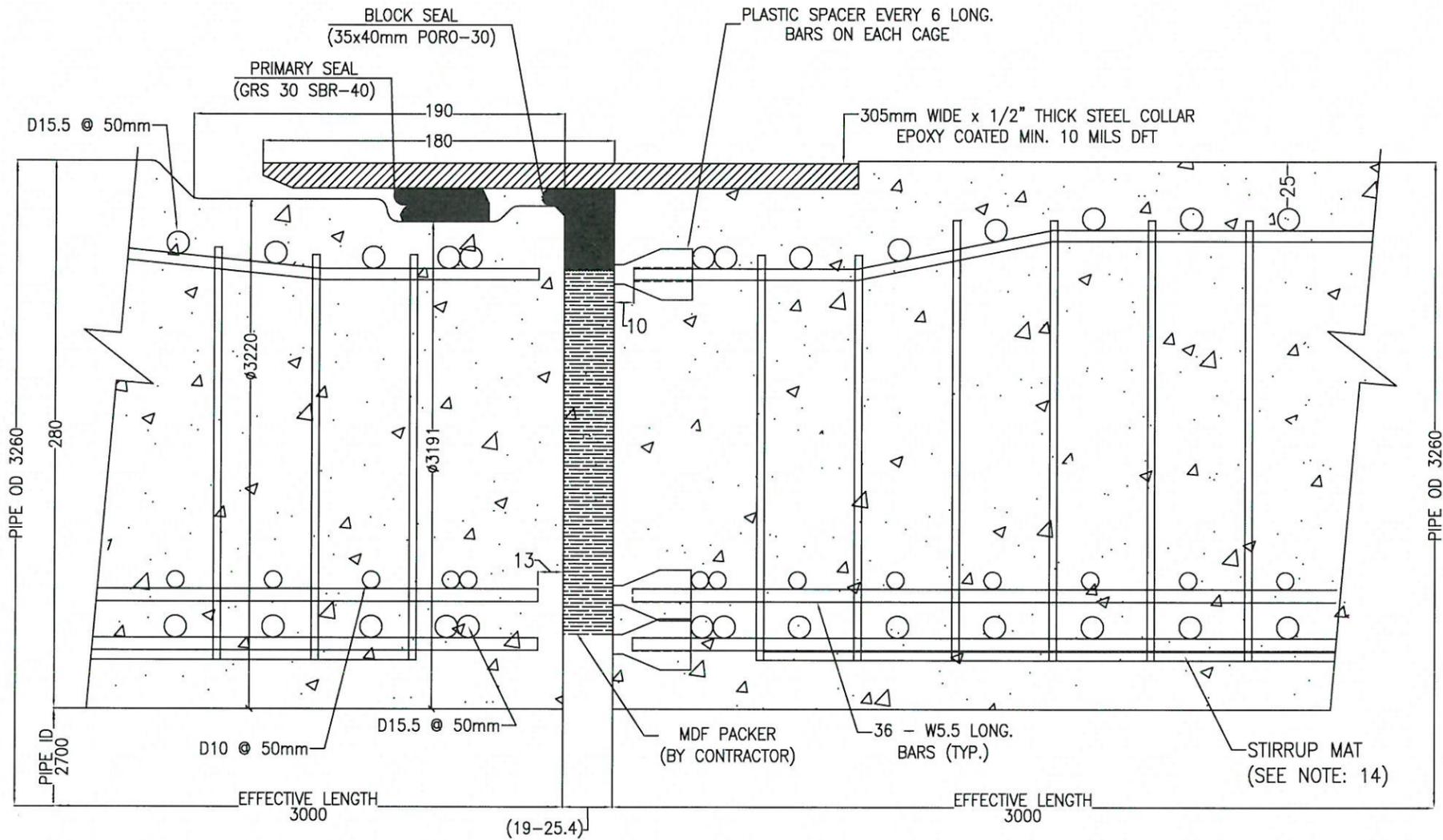
CLIENT:  
WARD & BURKE / City of Winnipeg - Water and Waste Department

PROJECT NAME:  
2700 ID x 3260 OD x 3000 LG MT  
Cockburn and Calrossie Combined Sewer Relief Works - Contract 4

STRUCTURE MT2700X300CS/P	DRAWN BY: AR	CHECKED BY: BR	ENG BY: --
DECAST LTD PROJECT NO.: 5001 2236	DATE: FEB 23 / 17	SCALE: NTS	DWG No.: 2700_C_S.01

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MARK #	DESCRIPTION:
MT2700X300CS/P	STANDARD 2700x3260 MT PIPE JOINT RFT



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CLIENT: WARD & BURKE / City of Winnipeg - Water and Waste Department			
PROJECT NAME: 2700 ID x 3260 OD x 3000 LG CLASS IV MT STD PIPE Cockburn and Calrossie Combined Sewer Relief Works - Contract 4			
STRUCTURE MT2700X300CS/P	DRAWN BY: AR	CHECKED BY: BR	ENG BY: --
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