



**SEWER JUNCTION INFORMATION**

REF. MH*	DIST FROM* REF. MH	SIZE*	CLOCK AT*
MH40012264	18.40	150Ø	11
MH40012264	18.60	150Ø	10
MH40012264	19.00	150Ø	12
MH40012264	22.50	150Ø	02
MH40012264	29.70	150Ø	12
MH40012264	32.50	150Ø	10
MH40012264	37.20	150Ø	02
MH40012264	40.70	150Ø	12
MH40012264	52.50	150Ø	12
MH40012264	63.00	150Ø	12
MH40012264	75.10	150Ø	12

\*JUNCTION INFORMATION FROM VIDEO INSPECTION

- CONSTRUCTION NOTES:**
- CONTRACTOR TO VERIFY LIMITS OF SEWER REPAIRS PRIOR TO EXCAVATION BY MEANS OF VIDEO INSPECTION.
  - CONTRACTOR TO PROVIDE VIDEO INSPECTION OF SEWER SERVICES WITHIN LIMITS OF REPAIR IN PRESENCE OF CONTRACT ADMINISTRATOR TO DETERMINE IF SERVICE RENEWAL IS REQUIRED.
  - ALL BACKFILL TO BE CLASS 5 BACKFILL UNDER BOULEVARDS AND CLASS 3 UNDER OR WITHIN 1.0m OF PAVEMENT AND SIDEWALKS.

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**AECOM**  
Certificate of Authorization  
AECOM Canada Ltd.  
No. 4671 Date: 11/02/10

BID OPPORTUNITY NO. 901-2010

AECOM REVIEW DRAFT CHK

**LOCATION APPROVED**  
UNDERGROUND STRUCTURES

SUPR. U/G STRUCTURES DATE COMMITTEE

**NOTE:**  
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

BM 30-045 ELEV 232.468m	87R496 - S.E. Cor. Ravelston Ave. W. & Madeline St., Tblt. on top of 0.05 m sq. x 2.4 m iron tube, 7.1 m N. of S.L. Ravelston Ave. W. & on E.L. Madeline St.		
0	ISSUED FOR CONSTRUCTION	11/02/09	KMB
NO.	REVISIONS	YY/MM/DD	BY

**AECOM**

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DESIGNED BY	ALD	CHECKED BY	PL
DRAWN BY	KMB	APPROVED BY	<i>[Signature]</i>
HOR. SCALE	1:500	RELEASED FOR CONSTRUCTION	<i>[Signature]</i>
VERT. SCALE	N/A	DATE	11/02/10

PROFESSIONAL'S SEAL

PROVINCE OF MANITOBA  
K.W.  
FITCHETT  
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO.  
60164626-01-C-112-R0X.dwg

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

2010 WASTEWATER SEWER RENEWALS AND REPAIRS CONTRACT 16

MADLINE STREET  
ROSSEAU AVENUE WEST  
TO HARVARD AVENUE WEST

SHEET 12 OF 45  
CITY DRAWING NUMBER 9444  
REV 0