



SEWER JUNCTION INFORMATION

REF. MH	DIST FROM REF. MH	SIZE	CLOCK AT
MH40012343	10.70	150ø	09
MH40012343	11.80	150ø	03
MH40012343	18.90	150ø	03
MH40012343	25.10	150ø	10
MH40012343	27.00	150ø	03
MH40012343	31.90	150ø	10
MH40012343	38.10	150ø	03
MH40012343	45.10	150ø	09
MH40012343	47.40	150ø	02
MH40012343	55.90	150ø	09
MH40012343	59.10	150ø	03
MH40012343	64.40	150ø	09
MH40012343	66.00	150ø	03
MH40012343	67.00	150ø	10

*JUNCTION INFORMATION FROM VIDEO INSPECTION

- CONSTRUCTION NOTES:**
- ALL WORK AND MATERIALS SHALL CONFORM TO THE CITY OF WINNIPEG STANDARD SPECIFICATIONS.
 - INSTALL NEW SEWER BY TRENCHLESS METHODS.
 - ALL AUGER SHAFTS SHALL HAVE CLASS 3 BACKFILL UNDER PAVED SURFACES AND CLASS 5 BACKFILL (GRANULAR BACKFILL TO 300 mm ABOVE SERVICE) IN BOULEVARD AREAS.
 - RENEW SEWER SERVICES TO PROPERTY LINE.
 - ALL SEWER AND WATER SERVICES TO BE LOCATED IN THE FIELD BY THE CONTRACTOR.
 - ABANDON EXISTING SEWER AND SEWER SERVICES.
 - ALL SEWER SERVICES SHALL BE 150 PVC SDR 35.
 - EXIST WASTEWATER SEWER TO BE CAPPED AND ABANDONED.

NOTE:
PROPOSED SEWER SERVICES SHOWN FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR SHALL LOCATE EXISTING SEWER SERVICES AT PROPERTY LINE.
LOCATION OF NEW SERVICES TO BE FIELD DETERMINED AND APPROVED BY CONTRACT ADMINISTRATOR.



BID OPPORTUNITY NO. 901-2010

<table border="1"> <tr><td>150 WM</td><td>WATERMAIN</td><td>150 WM</td><td>CURB STOP</td></tr> <tr><td>HYDRANT</td><td>REDUCER</td><td>150 WM</td><td>HYDRANT</td></tr> <tr><td>VALVE</td><td>COUPLING</td><td>VALVE</td><td>VALVE</td></tr> <tr><td>300 LDS</td><td>LAND DRAINAGE SEWER</td><td>300 LDS</td><td>ANODE</td></tr> <tr><td>250 WWS</td><td>WASTE WATER SEWER</td><td>250 WWS</td><td>HYDRO</td></tr> <tr><td>MANHOLE</td><td>MTS</td><td>PAVEMENT CROWN</td><td></td></tr> <tr><td>CATCH BASIN</td><td>GAS</td><td>N/W PROPERTY LINE</td><td></td></tr> <tr><td>CURB INLET</td><td>TESTHOLE</td><td>S/E PROPERTY LINE</td><td></td></tr> <tr><td>CULVERT</td><td>LAMP STANDARD</td><td>N/W GUTTER</td><td></td></tr> <tr><td>PIPE ABANDONMENTS</td><td>TREE</td><td>S/E GUTTER</td><td></td></tr> <tr><td>SURVEY BAR</td><td></td><td></td><td></td></tr> <tr><td>EXISTING</td><td>LEGEND - PLAN</td><td>NEW</td><td>EXISTING</td></tr> <tr><td></td><td>LEGEND - PLAN</td><td>NEW</td><td>EXISTING</td></tr> <tr><td></td><td>LEGEND - PROFILE</td><td>NEW</td><td>EXISTING</td></tr> </table>	150 WM	WATERMAIN	150 WM	CURB STOP	HYDRANT	REDUCER	150 WM	HYDRANT	VALVE	COUPLING	VALVE	VALVE	300 LDS	LAND DRAINAGE SEWER	300 LDS	ANODE	250 WWS	WASTE WATER SEWER	250 WWS	HYDRO	MANHOLE	MTS	PAVEMENT CROWN		CATCH BASIN	GAS	N/W PROPERTY LINE		CURB INLET	TESTHOLE	S/E PROPERTY LINE		CULVERT	LAMP STANDARD	N/W GUTTER		PIPE ABANDONMENTS	TREE	S/E GUTTER		SURVEY BAR				EXISTING	LEGEND - PLAN	NEW	EXISTING		LEGEND - PLAN	NEW	EXISTING		LEGEND - PROFILE	NEW	EXISTING	<p>LOCATION APPROVED UNDERGROUND STRUCTURES</p> <p>SUPR. U/G STRUCTURES COMMITTEE DATE</p> <p>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.</p>	<p>3.M. 30-044 S.E. Cor. Ravelston Av. W. & Winona St. 11ft. on top of 0.05m sq. x 2.4 m iron tube, 6.2m N of N. wall & 14.8m W of W. main wall No. 510 Winona St. or 6.7m W of E.L. Winona St. & 5.4m N of S.L. Ravelston Av. W.</p> <p>This drawing has been prepared for the use of AECOM's client and may not be used, reproduced or relied upon by third parties, except as agreed by AECOM and its client, as required by law or for use by governmental reviewing agencies. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from stated dimensions.</p> <p>AECOM</p> <p>DESIGNED BY: PL DRAWN BY: GDL HOR. SCALE: 1:250 VERT. SCALE: 1:50</p> <p>CHECKED BY: [Signature] APPROVED BY: [Signature] RELEASED FOR CONSTRUCTION</p> <p>DATE: 11/02/09</p>	<p>PROFESSIONAL'S SEAL</p> <p>PROVINCE OF MANITOBA K.W. FITCHETT REGISTERED PROFESSIONAL ENGINEER</p> <p>CONSULTANT DRAWING NO. 60164626-01-C-141-R0X.dwg</p>	<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT</p> <p>2010 WASTEWATER SEWER RENEWALS AND REPAIRS CONTRACT 16</p> <p>HARVARD AVENUE WEST 57m EAST OF MADELINE STREET TO 126m EAST OF MADELINE STREET</p>	<p>SHEET 41 OF 45</p> <p>CITY DRAWING NUMBER</p> <p>9473</p> <p>REV 0</p>
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