



ADDRESS	SIZE(mm) & TYPE	SIZE(mm) & TYPE	SHORT & LONG MEASUREMENT	CORP LOCATION	ADDRESS	SIZE(mm) & TYPE	SIZE(mm) & TYPE	SHORT & LONG MEASUREMENT	CORP LOCATION
70 ROBSON ST	19 COPPER	19 COPPER	3.4 S OF N HL		832 KERNAGHAN AVE	19 COPPER	19 COPPER	1.7 W OF E HL	
849 KERNAGHAN AVE	19 COPPER	19 COPPER	2.7 S OF N HL		831 KERNAGHAN AVE	19 COPPER	19 COPPER	5.8 E OF W HL	
845 KERNAGHAN AVE	19 COPPER	19 COPPER	5.8 W OF E HL		828 KERNAGHAN AVE	19 COPPER	19 COPPER	0.9 E OF E HL	
840 KERNAGHAN AVE	19 COPPER	19 COPPER	1.5 W OF E HL		827 KERNAGHAN AVE	19 COPPER	19 COPPER	6.1 W OF E HL	
837 KERNAGHAN AVE	19 COPPER	19 COPPER	7.6 W OF E HL		824 KERNAGHAN AVE	19 COPPER	19 COPPER	2.6 W OF E HL	
836 KERNAGHAN AVE	19 COPPER	19 COPPER	1.4 E OF W HL		823 KERNAGHAN AVE	19 COPPER	19 COPPER	3.4 E OF W HL	

- NOTES:**
1. ALL GATE VALVES ARE TO BE COUNTER-CLOCKWISE TO OPEN WITH A BLACK OPERATING NUT.
  2. WATERMAIN TO BE INSTALLED BY TRENCHLESS METHODS.
  3. BACKFILL IS CLASS 5 WITHIN BOULEVARD AND CLASS 3 WHEN WITHIN PAVEMENT/SIDEWALK OR WHEN WITHIN 1.0m OF PAVEMENT OR SIDEWALK.
  4. WATER SERVICES ARE 19mm UNLESS OTHERWISE NOTED.
  5. MINIMUM COVER TO TOP OF WATERMAIN SHALL BE 2.4m.
  6. LOCATION OF ALL SERVICES TO BE CONFIRMED IN FIELD.
  7. EXPOSE EXISTING WATERMAIN TO CONFIRM DEPTH PRIOR TO CONSTRUCTION.
  8. ALL LEAD SERVICES TO BE RENEWED.
  9. SERVICES TO BE RENEWED SHALL BE REPLACED FROM WATERMAIN TO PROPERTY LINE. ALL OTHERS TO BE RECONNECTED.

METRIC  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**APEGM**  
Engineering of Authorization  
SEG Engineering Inc.  
No. 1432 Expiry: April 30, 2006

EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED
---	WATERMAIN	---	---	HYDRO	---	---	CENTER LINE	---
○	HYDRANT	○	---	M.T.S.	---	---	NORTH GUTTER LINE	---
○	VALVE	○	---	CONCRETE	---	---	SOUTH GUTTER LINE	---
---	LAND DRAINAGE SEWER	---	---	ASPHALT	---	---	WATERMAIN	---
---	WASTE WATER SEWER	---	---	PROPERTY LINE	---	---	VALVE	---
○	MANHOLE	○	---	SURVEY BAR	---	---	LAND DRAINAGE SEWER	---
□	CATCH BASIN	□	---	CURB STOP	---	---	WASTE WATER SEWER	---
△	CURB INLET	△	---	C.B. LEAD	---	---	JUNCTIONS	---
---	TRAFFIC SIGNAL	---	---	SIDEWALK	---	---	CULVERT	---
---	MTS	---	---	SIDEWALK RAMP	---	---	ANODE	---
---	GAS	---	---	ELEVATIONS	---	---	PLUG	---
---	LEGEND - PLAN	---	---	LEGEND - PLAN	---	---	LEGEND - PROFILE	---

LOCATION APPROVED  
UNDERGROUND STRUCTURES  
ORIGINALLY SIGNED BY  
D. A. Soedal JULY 19, 2005

SUPV. 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 EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. ELEV. CWM: 30-003 234.065 m

**SEG ENGINEERING INC.**  
ENGINEERING  
200 TACHE AVENUE  
WINNIPEG, MANITOBA  
(204)-233-2113

DESIGNED BY: DJ  
CHECKED BY: SM  
DRAWN BY: RH  
APPROVED BY: IMck

HOR. SCALE: 1:250  
VERT. SCALE: 1:50

RELEASED FOR ORIGINALY CONSTRUCTION SIGNED BY:  
K. ZUREK P. ENG  
DATE: APRIL 11, 2006

1 UPDATED FOR 269-2006 APR 06 DJ  
NO. REVISIONS DATE BY

ENGINEERS SEAL  
I. G. MCKINNON  
PROFESSIONAL ENGINEER

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

2006 CAPITAL WORKS  
WATERMAIN RENEWALS  
KERNAGHAN AVENUE  
ROBSON STREET TO  
110m EAST OF ROBSON STREET

CITY DRAWING NO.  
SHEET 1 OF 2  
D-8817

CONSULTANT DRAWING NO.  
069-021-06