



**APEGM**  
 Certificate of Authorization  
 Dillon Consulting Limited (MB)  
 No. 1789 Date: 2013/08/08

**METRIC**

WHOLE NUMBERS INDICATE MILLIMETRES  
 DECIMALIZED NUMBERS INDICATE METRES

**WARNING**

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.
3. OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.
4. A MINIMUM VERTICAL SEPARATION OF 300 mm FROM GAS MAINS AND 100 mm FROM GAS SERVICE MUST BE MAINTAINED BETWEEN ANY MANITOBA HYDRO FACILITY AND ANY NEW INSTALLATIONS.
5. A MINIMUM 900 mm OF COVER SHALL BE MAINTAINED IN ALL AREAS WHERE EQUIPMENT WILL BE CROSSING, TRAVELING OR COMPACTING OVER THE HIGH PRESSURE GAS MAINS.
6. IF EQUIPMENT MUST CROSS, TRAVEL, OR COMPACT OVER THE GAS MAIN WITH LESS THAN THE MINIMUM DEPTH COVER, EARTH BRIDGING OR STEEL PLATES SHALL BE PLACED OVER THE MAIN AND EXTEND A MINIMUM OF 1.0 METRE ON EITHER SIDE AT EACH CROSSING LOCATION.

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150 WM	WATERMAIN	150 WM	MTS	M.T.S.	150 mm W.M.	WATERMAIN	150 mm W.M.
⊕	HYDRANT	⊕	MTS	CONCRETE	⊕	HYDRANT	⊕
⊗	VALVE	⊗	MTS	ASPHALT	⊗	VALVE	⊗
300 LDS	LAND DRAINAGE SEWER	300 LDS	MTS	PLANING	300 mm L.D.S.	LAND DRAINAGE SEWER	300 mm L.D.S.
250 WWS	WASTE WATER SEWER	250 WWS	MTS	PAVING STONES	250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.
○	MANHOLE	●	MTS	PROPERTY LINE	---	MANHOLE	○
⊙	CATCH BASIN	⊙	MTS	SURVEY BAR	---	CATCH BASIN	⊙
⊕	TEST HOLES	⊕	MTS	CURB RAMP	---	TEST HOLES	⊕
+	JUNCTIONS	+	MTS	DITCH	---	JUNCTIONS	+
⊔	CULVERT	⊔	MTS	SWALE	---	CULVERT	⊔
100 GAS	GAS	100 GAS	MTS			GAS	100 GAS
---	EXISTING	---	MTS			---	EXISTING
---	LEGEND-PLAN	---	MTS			---	LEGEND-PROFILE
---	PROPOSED	---	MTS			---	PROPOSED

**UNDERGROUND STRUCTURES**

SUPV. U/G STRUCTURES COMMITTEE DATE

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.

B.M. 654008	N: 5515764.610	654210	N: 5514436.957
ELEV. 232.463 m	E: 633359.697	ELEV. 232.463 m	E: 630550.534
0	ISSUED FOR TENDER	13/08/08	MRD
NO.	REVISIONS	DATE	BY

DESIGNED BY	MRD
DRAWN BY	PMW
CHECKED BY	DBW
APPROVED BY	DPK
HOR. SCALE	1:500
VERTICAL	
DATE	2013/08/08

**DILLON CONSULTING**

ENGINEER'S SEAL  
 PROVINCE OF MANITOBA  
 M.R.  
**DOUCET**  
 Member  
 22306  
 REGISTERED PROFESSIONAL ENGINEER

**THE CITY OF WINNIPEG**  
 PUBLIC WORKS DEPARTMENT

Waverley West Arterial Roads Project  
 (WWARP) PART 3 - CONTRACT 2  
 ROUTE 90 TO ROUTE 165 OVERPASS (KENASTON BLVD.)  
 AND ASSOCIATED WORKS

CITY DRAWING NUMBER  
**B242-13-94**

SHEET **94** OF **128**

CONSULTANT PROJECT NUMBER  
**12-6606**

PLAN - KENASTON MEDIAN SWALE

CONSULTANT DRAWING NUMBER  
**P-3349-94**