



**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.

150 W.M.	WATERMAIN	150 W.M.	MTS	M.T.S.	MTS	150 mm W.M.	WATERMAIN	150 mm W.M.
	HYDRANT VALVE			CONCRETE			HYDRANT VALVE	
	LAND DRAINAGE SEWER			ASPHALT			LAND DRAINAGE SEWER	
	WASTE WATER SEWER			PLANNING			WASTE WATER SEWER	
	MANHOLE			SIDEWALK			MANHOLE	
	CATCH BASIN			PAVING STONES			CATCH BASIN	
	TEST HOLES			PROPERTY LINE			TEST HOLES	
	JUNCTIONS			SURVEY BAR			JUNCTIONS	
	CULVERT			CURB RAMP			CULVERT	
	100 GAS			DITCH			100 GAS	
	EXISTING			SWALE			EXISTING	
	LEGEND-PLAN			EXISTING			LEGEND-PROFILE	
	LEGEND-PROFILE			PROPOSED			PROPOSED	

UNDERGROUND STRUCTURES	B.M.	N.	E.
SUPPLY 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.	654540	55.9133.240	634706.783
	ELEV. 230.732 m		

DESIGNED BY	CHECKED BY	APPROVED BY	HOR. SCALE	VERTICAL
PMW	GP	DBW	1:250	
DATE	DATE	DATE	DATE	DATE
2014/06/12	2014/06/12	2014/06/12	2014/06/12	2014/06/12

DESIGN TEAM

REGISTERED PROFESSIONAL ENGINEER

CONSULTANT PROJECT NUMBER: 14-9129

ENGINEER'S SEAL

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT

2014 REGIONAL STREETS PROGRAM:  
HENDERSON HWY NORTHBOUND  
McLEOD AVE TO SPRINGFIELD RD  
MAJOR REHABILITATION

CITY DRAWING NUMBER: P-3357-2  
SHEET 2 OF 11  
CONSULTANT DRAWING NUMBER

HORIZONTAL GEOMETRY  
STA: 1+040 TO 1+395

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