



**GENERAL NOTES:**

1. OUTSIDE SERVICES CONTRACTOR SHALL VERIFY EXACT LOCATION & INVERTS OF ALL EXISTING SITE & CITY SERVICES PRIOR TO COMMENCEMENT OF WORK. CONFIRM ALL PIPE LENGTHS FOR SITE SERVICES.
2. ALL NEW INSTALLATIONS SHALL BE AS PER ALL NATIONAL, PROVINCIAL, & MUNICIPAL CODES & REGULATIONS & ALL AUTHORITIES HAVING JURISDICTION. INCORPORATE ALL CSA STANDARDS, APPROVED INSTALLATION MATERIALS AND METHODS INTO OUTLINED DESIGN.
3. REFER TO CIVIL & ARCHITECTURAL DRAWINGS FOR ALL FINAL GRADE ELEVATIONS & TO SET MANHOLE RIM ELEVATIONS.
4. REFER TO CIVIL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR COORDINATION PURPOSES.
5. REFER TO MECHANICAL FLOOR PLANS FOR CONTINUATION OF ALL INTERIOR BUILDING SERVICES.
6. OUTSIDE SERVICES CONTRACT SHALL END 5'-0" (1500mm) OUTSIDE THE BUILDING LINE WHERE MECHANICAL CONTRACTOR'S CONTRACT SHALL BEGIN. COORDINATE LOCATIONS.
7. OUTSIDE SERVICES CONTRACTOR SHALL PROVIDE ACCURATE, DETAILED, DIMENSIONED AS-BUILT DRAWINGS FOR ALL INSTALLATIONS.
8. OUTSIDE SERVICES CONTRACTOR SHALL PROVIDE ACCURATE, DETAILED, DIMENSIONED AS-BUILT DRAWINGS FOR ALL INSTALLATIONS.
9. ALL WATERMAINS AND FITTINGS TO CONFORM TO CSA STANDARDS & ALL AUTHORITIES HAVING JURISDICTION.
10. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL DISCREPANCIES 7 WORKING DAYS PRIOR TO TENDER CLOSE. IF WRITTEN NOTIFICATION IS NOT SUBMITTED AS REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR A COMPLETE, WORKING, AUTHORITY APPROVED SYSTEM WHETHER SHOWN OR NOT.
11. ALL INVERT ELEVATIONS & PIPING LENGTHS ARE APPROXIMATE & MUST BE SITE CONFIRMED PRIOR TO CONSTRUCTION. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER.
12. IF THE TOP OF THE BURIED SANITARY AND/OR STORM LINE PIPING OUTSIDE OF THE BUILDING IS WITHIN 1.83m (6'-0") BELOW GRADE, INSULATION PROTECTION SHALL BE PROVIDED TO PREVENT FREEZING OF LINES; REFER TO CIVIL FOR FURTHER INFORMATION.

**GENERAL NOTES:**

- 1 MAIN SANITARY SEWER LEAVING BUILDING.
- 2 75mm DOMESTIC WATER SERVICE TO BUILDING TO RISE UP IN FROST BOX WITHIN CRAWLSPACE TO SERVE METER IN MAIN FLOOR MECHANICAL ROOM. FOR CONTINUATION REFER TO MAIN FLOOR PLUMBING PLAN.
- 3 MAIN NATURAL GAS (NG) SERVICE LINE TO BUILDING TO RISE UP IN FROST BOX WITHIN CRAWLSPACE TO SERVE METER AND REGULATOR WITH THE GAS UTILITY AND PAY ALL REQUIRED FEES.
- 4 150mm WWS TO CONNECT TO EXISTING STREET SERVICE APPROXIMATELY AS SHOWN. REFER TO CIVIL DRAWING AND COORDINATE FINAL INSTALLATION WITH CIVIL ENGINEER.
- 5 DOMESTIC WATER SERVICE TO CONNECT TO EXISTING STREET SERVICE APPROXIMATELY AS SHOWN. REFER TO CIVIL DRAWING AND COORDINATE FINAL INSTALLATION WITH CIVIL ENGINEER.
- 6 MAIN NG SERVICE TO CONNECT TO EXISTING APPROXIMATELY AS SHOWN. VERIFY EXACT LOCATION ON SITE W/ GAS UTILITY.

THE GAS PIPING IS SIZED AT 7"-14" w.c. DOWNSTREAM OF THE BUILDING PRV AND 7" w.c. DOWNSTREAM OF INDIVIDUAL PRV'S. PIPING SHOWN ON THIS DRAWING WITH A SOLID LINE SHALL BE INSTALLED INSIDE THE BUILDING. PIPING SHOWN DASHED IS RUNNING UNDERGROUND. ALL GAS PIPING RUNS THAT EXCEED 100 FT IN LENGTH SHALL BE PROVIDED WITH EXPANSION LOOPS SIZED IN ACCORDANCE WITH APPENDIX 'G' OF THE GAS CODE. ALL GAS PIPING TO BE PROPERLY MARKED IN & OUTSIDE BUILDING. PROVIDE SHUT OFF VALVES AND UNIONS AT EACH APPLIANCE. PROVIDE NATURAL GAS PRV'S AS SHOWN. ALL PRV'S INSTALLED INSIDE SHALL BE VENTED TO ATMOSPHERE.

**NEW EQUIPMENT GAS LOAD:**

EQUIPMENT	CAPACITY	INLET GAS PRESSURE			
		(MINIMUM)		(MAXIMUM)	
		inches w.c.	kPa	inches w.c.	kPa
B-1	399 MBH / 116.9 kW	3	0.75	14	3.49
B-2	399 MBH / 116.9 kW	3	0.75	14	3.49
FIREPLACE	50	4.5	1.12	13	3.24
TOTAL NEW GAS LOAD =	848 MBH / 248.5 kW				
	ft. m				
TOTAL EQUIVALENT LENGTH =	306 ft. / 93.3 m				

**SITE PLAN**  
SCALE: 1:300

TOWER PROJECT NO. : 181335  
**TOWER ENGINEERING GROUP**  
 UNIT 1-1140 WAVERLEY ST. WINNIPEG, MB R3T 0P4  
 TEL: (204) 925-1150 FAX: (204) 925-1155  
 EMAIL: towereng@towereng.ca WEB: www.towereng.ca  
 • WINNIPEG • CALGARY

These design documents were prepared solely for the use by the party with whom the design professional has entered into a contract and those are no representation of any kind made by the design professional to any party with whom the design professional has not entered into a contract. Any use of the design, data or electronic data without the expressed written permission of Tower Engineering Inc. is strictly prohibited. The subscriber is responsible to verify all dimensions with conditions on the site and report discrepancies to Tower Engineering for adjustment. All joints to be retained.

1	July 08, 2019	Issued For Construction	JAC
No.	Date	Issue / Revision	By
Drawn By: JRodriguez			
Printing Date: July 16, 2019			

**LM Architectural Group**  
 500-136 Market Ave  
 Winnipeg, Manitoba  
 Canada R3B 0P4  
 t. (204) 942.0681  
 f. (204) 943.8676  
 www.lm-architects.com

**APEGM**  
 Certificate of Authorization  
 Tower Engineering Group  
 No. 4156 Expiry: April 30, 2020

Province of Manitoba  
**CHIMKO**  
 Member 23356  
 PROFESSIONAL ENGINEER

Drawings and specifications, as instruments of service are the property of the architect, the copyright in the same being reserved to them. No reproduction may be made without the permission of the architect, and when made, must bear their names. All prints to be returned.

The contractor is to verify dimensions and data noted herein with conditions on the site and is held responsible for reporting any discrepancy to the architect for adjustment.

**Bill and Helen Norrie Library**  
 Project No.: 2017-082  
 Tender No.: 542-2019  
 Address: 15 Poseidon Bay, Winnipeg, MB.

**Winnipeg**

**SITE PLAN**

Comm. No.: 1847  
 Sheet: **MO.3**

Printed on: 7/16/2019 10:51:28 AM  
 Drawing: 181335 - MO.3 SITE PLAN.rvt