NOTES:

1. ALL ELEVATIONS ARE IN METERS AND ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL ALUMINUM IN CONTACT WITH CONCRETE TO HAVE 2-COATS BITUMEN.
3. FOR EACH BAR INTERRUPTED BY OPENING, IN THE PRIMARY REBAR DIRECTION ADD BAR TO EITHER SIDE OF OPENING. EXTEND BAR TO MINIMUM 900 PAST EACH EDGE OF OPENING. TYPICAL TOP AND BOTTOM. ALLOW MINIMUM 40 SPACING BETWEEN BARS TYPICAL FOR ALL OPENINGS.
4. TYPICAL REINFORCING DETAILS FOR OPENINGS APPLY TO ALL OPENINGS GREATER OR EQUAL TO 200Φ FOR SLAB, 100Φ FOR WALLS. UNLESS NOTED OTHERWISE IN NOTE 5.
5. FOR OPENINGS THAT ARE SPACED CLOSER THAN OR EQUAL TO 600 PROVIDE OPENING REINFORCING AS IF IT IS ONE PENETRATION.

TYPICAL ROUND OPENING REINFORCING
NTS

TYPICAL SQUARE OPENING REINFORCING
NTS

TYPICAL PIPE PENETRATION
1:20

TYPICAL ROUND OPENING REINFORCING FOR EDGE CONDITIONS
NTS

TYPICAL SQUARE OPENING REINFORCING FOR EDGE CONDITIONS

TYPICAL VERTICAL WALL/CURB CONSTRUCTION JOINT
NTS

TYPICAL WALL INTERSECTION

TYPICAL CORNER DETAIL

TYPICAL SLAB CONSTRUCTION JOINT
NTS

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MPE ENGINEERING
No. 5643

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

LOCATION APPROVED
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.
ELEV.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR TENDER	2019-09-10	M.J.B.

MPE Engineering Ltd.

DESIGNED BY	M.J.B.	CHECKED BY	XX
DRAWN BY	C.W.H.	APPROVED BY	XX
SCALE: HORIZONTAL	AS NOTED	RELEASED FOR CONSTRUCTION	
VERTICAL	AS NOTED		
DATE	2019-9-11	DATE	

PLOT DATE: 2019 09 18

ORIGINAL SEALED BY MARK J. BAKER 2019-09-16

CONSULTANT DRAWING NUMBER
S1.3

BID OPPORTUNITY: 913-2019

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

BURROWS OUTFALL GATE CHAMBER UPGRADES

MISCELLANEOUS DETAILS–SHEET 1 OF 2

CITY DRAWING NUMBER 1–03000–S0002–001 SHEET 6 OF 20

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