



LOCATION	PIPE		END CONDITION	GRATING							
	DIAMETER D	MATERIAL		DIAMETER D1	TYPE	BAR DIA.	A	B	C	N	WEIGHT (lbs)
HENDERSON HIGHWAY (S-MA40000289)	1200	CMP	2	1185±	Y	20	145	150	130	7	72
GATEWAY ROAD (S-MA40003056)	2120	SPCSP	2	2105±	Y	25	155	150	150	12	295
VALLEY VIEW DRIVE (NEW)	750	CMP	1	735±	X	15	150	90	135	3	25
JAE EADIE (S-MA20008967)	2280	SPCSP	1	2235±	Y	25	145	130	140	14	338
HINDLEY AVENUE (S-MA50018567)	600	CMP	2	588±	X	15	150	138	150	2	22
BISHOP GRANDIN BOULEVARD (S-MA70015994)	800	CMP	1	785±	X	15	150	115	130	4	30
PEMBINA HIGHWAY (S-MA70028476)	525	CMP	1	510±	X	20	125	125	130	2	24

- NOTE:
1. ALL PLATES AND BARS ARE CSA G40.21-300W.
2. ALL COMPONENTS ARE GALVANIZED.
3. ALL BOLTS TO BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A320 GRADE B8M

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.
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.		
ISSUED FOR TENDER	2018 11 21	RBO
NO.	REVISIONS	DATE

KGS GROUP CONSULTING ENGINEERS	
DESIGNED BY NGV	CHECKED BY RBO
DRAWN BY GEL	APPROVED BY RBO
SCALE: HORIZONTAL AS NOTED	RELEASED FOR CONSTRUCTION
VERTICAL NA	DATE 2018 11 20

ENGINEER'S SEAL
PROVINCE OF MANITOBA
R.B. OFFMAN
Member
24701
CONSULTANT DRAWING NUMBER
18-0107-013_LD-8871

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2019 OUTFALL RENEWAL REHABILITATION PROGRAM

MISCELLANEOUS DETAILS
SHEET 1 OF 2

SHEET 15 OF 16
CITY DRAWING NUMBER
LD-8871

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES