



**SITE PLAN**  
SCALE 1:250

- NOTES:**
- ALLOWABLE SHUT DOWN TIME: 4.0 HOURS (APPROXIMATE).
  - CRITICAL BASEMENT ELEVATION: 227.782 (LOW MH @ 127/123 TURNELL BAY, RIM 230.93, INV 227.43)
  - REMOVE EXISTING PUMPS, PIPING AND OTHER MATERIALS AS-REQUIRED.
  - PROVIDE TEMPORARY PUMPING OF WASTE WATER DURING CONSTRUCTION.
  - INSTALL MECHANICAL & ELECTRICAL WORK AS INDICATED AND ACCORDING TO MANUFACTURES SPECIFICATION.
  - EXCAVATIONS TO BE BACKFILLED WITH CLASS 3 OR 5 BACKFILL IN ACCORDANCE WITH CW 2030 AND SD-002.
  - FLANGE NUTS AND BOLTS TO BE ASTM A307 EXCEPT IN WET WELL WHICH ARE TO BE ASTM A276 TYPE 316 SS.
  - GASKETS TO BE FULL FACED, 3 THICK RED RUBBER.
  - CONTRACTOR TO CONFIRM ALL DIMENSIONS BEFORE ASSEMBLING PIPE.
  - ALL ANCHOR BOLTS TO BE ASTM A276 TYPE 316 SS.

**MATERIALS LIST**

ITEM	DESCRIPTION	ENDS	LENGTH	QUANTITY
1	FLOWSERVE MODEL 6MSX9A, 10 HP SUBMERSIBLE PUMPS. C/W BASE ELBOW	FL	-	3
2	LIFTING CHAIN	-	12.8 m	3
3	POWER CABLE	-	AS-REQUIRED	3
4	PUMP GUIDE RAILS	-	AS-REQUIRED	3 SETS
5	150# CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL X PE	AS-REQUIRED	3
6	150# "UNI-FLANGE" OR APPROVED EQUAL REMOVABLE FLANGE	-	-	6
7	150# CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL X FL	AS-REQUIRED	3
8	150# CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL X PE	AS-REQUIRED	3
9	150# CI CHECK VALVE WITH RUBBER FLAP "VALMATIC" OR APPROVED EQUAL	FL X FL	-	3
10	150# CI WEDGE GATE VALVE WITH BRONZE TRIM, OUTSIDE SCREW & YOKE, RISING STEM AND HANDWHEEL	FL X FL	-	3
11	250# X 150# CI REDUCER	FL X FL	-	1
12	250# X 150# CI 90° REDUCING ELBOW	FL X FL	-	2
13	250# CI PIPE	FL X FL	AS-REQUIRED	2
14	250# CI CROSS	FL X FL X FL X FL	AS-REQUIRED	1
15	250# CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL X PE	AS-REQUIRED	1
16	250# "UNI-FLANGE" OR APPROVED EQUAL REMOVABLE FLANGE	-	-	1
17	250# ROSEMOUNT FLOW METER	FL X FL	AS-REQUIRED	1
18	250# CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL X FL	AS-REQUIRED	1
19	250# CI 90° STD RAD ELBOW	FL X FL	-	1
20	250# CL 52 DUCTILE IRON OR SCH 80 STEEL PIPE	FL X PE	AS-REQUIRED	1
21	250# FLEXIBLE ADAPTER COUPLING	-	-	1
22	250# AWWA C900 CL 150 FORCEMAIN	-	AS-REQUIRED	1

• ITEMS WILL BE PROVIDED BY CITY  
•• ITEMS TO BE RE-USED FROM EXISTING PUMPING STATION

200 WM	WATERMAIN	200 WM	SL, HYDRO	150 WM	WATERMAIN	150 WM
+	HYDRANT	+	MTS	+	HYDRANT	+
⊕	VALVE	⊕	TRAFFIC SIGNALS	⊕	VALVE	⊕
525 LDS	LAND DRAINAGE SEWER	525 LDS	GAS	300 LDS	LAND DRAINAGE SEWER	300 LDS
375 WWS	WASTEWATER SEWER	375 WWS	SURVEY BAR	250 WWS	WASTEWATER SEWER	250 WWS
○	MANHOLE	○	FENCE	⊕	PROFILE	⊕
□	CATCH BASIN	□	POLE - HYDRO, MTS	—	GROUND ABOVE PIPE	—
▽	CURB INLET	▽	CURB STOP	⊕	DITCH (NORTH & WEST)	⊕
⊕	JUNCTIONS	⊕	GUY ANCHOR	⊕	DITCH (SOUTH & EAST)	⊕
—	CULVERT	—	LIGHT STANDARD	⊕	GUTTER (NORTH & WEST)	⊕
⊕	ANODE	⊕	TREE	⊕	GUTTER (SOUTH & EAST)	⊕
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING
EXISTING	LEGEND-PROFILE	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED	EXISTING

**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.

NO.	REVISIONS	DATE	BY

**CITY OF WINNIPEG**  
WATER AND WASTE  
ENGINEERING DIVISION

DESIGNED BY: DB  
CHECKED BY: TW  
DRAWN BY: CJH  
APPROVED BY: KZ

HOR. SCALE: AS  
VERTICAL: SHOWN

DATE: 2006 06 29

ENGINEER'S SEAL  
ORIGINAL SIGNED BY K.R. ZUREK  
06/06/29

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

Winnipeg

INSTALLATION OF SUBMERSIBLE PUMPING UNITS AND UPGRADES TO THE BOURNAIS WASTEWATER PUMPING STATION

SHEET 1 OF 7  
CITY DRAWING NUMBER 05800

BID OPPORTUNITY: 431-2006  
FILENAME: Bournaiss PS.dwg  
PLOT DATE: 2006 06 29

SITE PLAN AND SECTION VIEWS