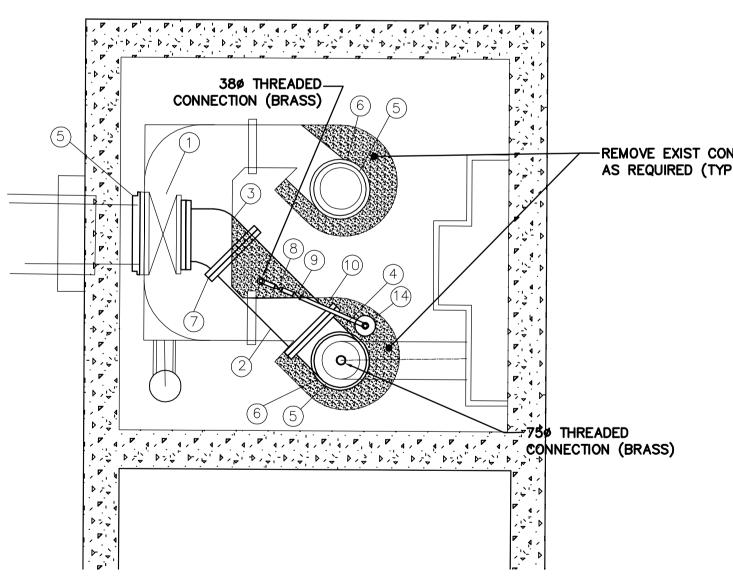
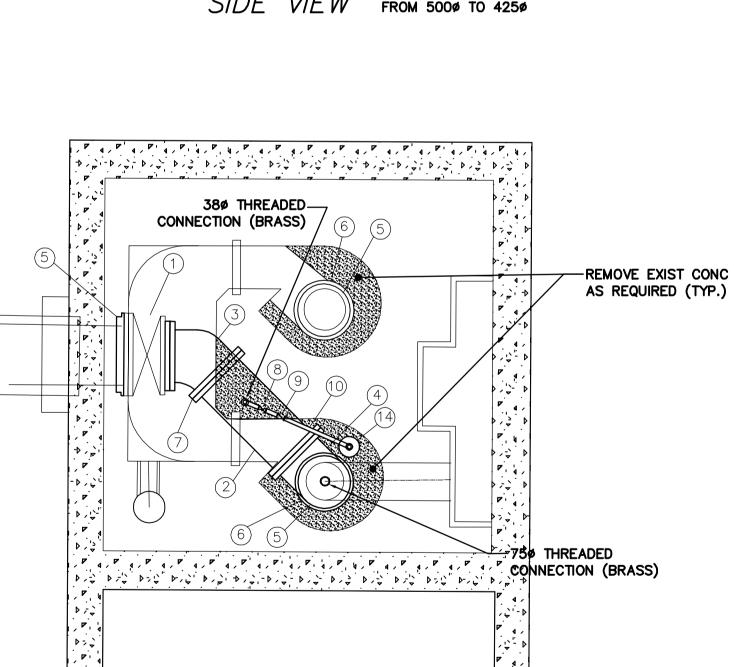
# MANUAL OPERATOR GEARBOX WITH 50 X 50 <sup>-</sup> AWWA OPERATING NUT 500 GATE VALVE OPERATING PEDESTAL BRONZE GATE STEM -- SS GATE STEM GUIDES SPACED AS REQUIRED BY GATE 50X50 AWWA OPERATING — MANUFACTURER (2 MIN) 38¢ RIGID PIPE REMOVE EXIST GATE - VALVE AND INSTALL REINFORCED CONC HEADWALL GROUT AROUND PIPE REMOVE EXIST CONC -FLANGE TO SECURE AS REQUIRED (TYP.) & SEAL (TYP.) BOLT FLANGE TO EXIST CONC AND REMOVE EXIST CONC AS-REQUIRED TO ALLOW TRANSITION FROM 5000 TO 4250





FRONT VIEW

GROUT FLANGE BOLTS -

IN CONC (TYP)

### CONSTRUCTION NOTES:

- 1. ALLOWABLE SHUTDOWN TIME: MAX. 45.0 HRS OR AS DETERMINED BY COLLECTIONS STAFF
- 2. CRITICAL BASEMENT ELEVATION: 229.228
- 3. REMOVE EXISTING CONCRETE PIPING, VALVES, FITTINGS, AND OTHER MATERIALS
- AS REQUIRED. INSTALL NEW PUMPS, MOTORS, PIPING, VALVES AND FITTINGS AS SHOWN.
- 4. PROVIDE TEMPORARY BY-PASS PUMPING OF WASTEWATER DURING CONSTRUCTION.
- 5. INSTALL MECHANICAL WORKS AS INDICATED AND ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- 6. EXCAVATIONS TO BE BACKFILLED WITH CLASS 3 OR CLASS 5 BACKFILL IN ACCORDANCE WITH CW 2030 AND SD-042.
- 7. FLANGE NUTS & BOLTS TO BE ASTM A307.
- 8. GASKETS TO BE FULL FACED, 3 THICK RED RUBBER.
- 9. CONTRACTOR TO CONFIRM ALL DIMENSIONS BEFORE ASSEMBLING PIPE.
- 10. ALL ANCHOR BOLTS TO BE ASTM A276 TYPE 316 SS.

#### MATERIALS LIST

ITEM	DESCRIPTION	ENDS	LENGTH	QUANTITY
1)	* 5000 NON RISING STEM GATE VALVES W/PEDESTAL OPERATORS	FL	3462±	1
2	500¢ PIPE	FL+PE	1107±	1
3	500¢ CAST IRON 45° BEND	FL	-	1
4	500¢ CAST IRON TEE	FL	_	1
5	5000 DI FLANGED WALL THIMBLE	-	_	2
6	500¢ DI BLIND FLANGE	-	_	2
7	500¢ UNI-FLANGE	_	_	1
8	38¢ GATE VALVE	_	_	1
9	38¢ CHECK VALVE	-	-	1
10	38ø TYPE 316 SS PIPE	_	_	1
(11)	75ø ONE WAY AIR VALVE	_	_	1
12	75¢ CHECK VALVE	-	-	1
13	75ø TYPE 316 SS PIPE	_	_	1
(14)	110V, MIN 1/3 HP, SUMP PUMP W/FLOAT SWITCH	_	_	1

NOTE: LENGTHS & DIMENSIONS SHOWN AS ± TO BE FIELD CONFIRMED BY CONTRACTOR

- \* ITEMS SUPPLIED BY CITY - CONTRACTOR TO SUPPLY CABLES & CONDUIT FROM SUMP PUMPS TO ELECTRICAL OUTLETS IN COMMINUTOR ROOM
- VALVE PEDESTAL OPERATORS TO HAVE POSITION INDICATORS.

TOP VIEW

**METRIC** WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

		_									
	LOCATION APPROVED UNDERGROUND STRUCTURES	B.M. ELEV.								ENGINEER'S SEAL  ORIGINAL SIGNED	
SUPV. U COMMITT	SUPV. U/G STRUCTURES DATE							BY N.M. CONTI	l		
	COMMITTEE					DESIGNED NC		CHECKED BY	NC	15/09/25	
	NOTE:  LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION					DRAWN BY RS		APPROVED BY	NC		]
AVAILABLE BUT NO GI EXISTING UTILITIES AR LOCATIONS ARE I EXISTENCE AND E SERVICES MUST BE OF	AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN					SCALE:		RELEASED FOR CONSTRUCTION			i
	LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL	1	REVISED TO RECORD DRAWING	YY/MM/DD	×××	horizontal NTS vertical NTS	VI 3		CONSULTANT DRAWING NUMBER	l	
	UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	NO.	REVISIONS	DATE	ВҮ	DATE 2015 09 25	1	DATE		_	ı

PLOT DATE: 2015 09 25

-BOLT FLANGE TO EXIST CONC AND

AS-REQUIRED

REMOVE EXIST. CONC

-INSTALL CONC REINFORCED HEADWALL

## THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT ENGINEERING DIVISION

2015 COMMINUTOR CHAMBER PIPING & VALVE UPGRADES RIVERBEND LIFT STATION

1-0178L-M0001-001 LANE WEST OF RIVERBEND CRESCENT

SHEET 11 OF 11

CITY DRAWING NUMBER

AND PORTAGE AVENUE

BID OPPORTUNITY: 822-2015

FILE PATH: R:\DRAWINGS\SEWER\2015 RENEWALS\LIFT STATIONS\FILE NAME: RIVERBEND.dwg