GENERAL DRAWINGS

CITY OF WINNIPEG DWG NO.	DESCRIPTION	REV
1-0240G-D0001-001-00	COVER SHEET AND SITE LOCATION	0
1-0240G-D0002-001-00	DRAWING INDEX	0

CIVIL DRAWINGS

CITY OF WINNIPEG DWG NO.	DESCRIPTION	REV
1-0240G-C0001-001-00	FORCEMAIN PLAN PROFILE STATION 0+000 TO 0+320	0

STRUCTURAL DRAWINGS

CITY OF WINNIPEG DWG NO.	DESCRIPTION	REV
1-0240G-S0001-001	STRUCTURAL DEMOLITION PLAN	0
1-0240G-S0002-001	STRUCTURAL PLANS	0
1-0240G-S0003-001	STRUCTURAL SECTIONS	0
1-0240G-S0004-001	STRUCTURAL SECTIONS	0
1-0240G-S0005-001	STRUCTURAL DETAILS	0
1-0240G-S0006-001	STRUCTURAL DETAILS	0
1-0240G-S0007-001	STRUCTURAL DETAILS	0

PROCESS DRAWINGS

CITY OF WINNIPEG DWG NO.	DESCRIPTION	REV
1-0240G-P0001-001-00	PROCESS AND INSTRUMENTATION LEGEND	0
1-0240G-P0002-001-00	PROCESS AND INSTRUMENTATION DIAGRAM	0
1-0240G-P0003-001-00	PROCESS AND INSTRUMENTATION PLAN AND ELEVATION	0

ELECTRICAL DRAWINGS

CITY OF WINNIPEG DWG NO.	DESCRIPTION	REV
1-0240G-E0001-001	ELECTRICAL LEGEND	0
1-0240G-E0002-001	ELECTRICAL SINGLE LINE DIAGRAM	0
1-0240G-E0003-001	ELECTRICAL SITE PLAN UTILITY SERVICE AND DETAILS	0
1-0240G-E0004-001	ELECTRICAL VAULT LAYOUT AND SECTION	0
1-0240G-E0005-001	ELECTRICAL ENCLOSURE LAYOUT DETAILS AND BILL OF MATERIALS	0
1-0240G-E0006-001	MOTOR STARTER SCHEMATIC PUMP P-G01	0
1-0240G-E0007-001	MOTOR CONNECTION DIAGRAM PUMP P-G01	0
1-0240G-E0008-001	MOTOR STARTER SCHEMATIC PUMP P-G02	0
1-0240G-E0009-001	MOTOR CONNECTION DIAGRAM PUMP P-G02	0
1-0240G-E0010-001	ELECTRICAL GROUNDING DETAILS	0
1-0240G-E0011-001	HAZARDOUS LOCATION PLAN	0

AUTOMATION DRAWINGS

CITY OF WINNIPEG DWG NO.	DESCRIPTION	REV
1-0240G-A0001-001	AUTOMATION PLAN PLANS AND SECTIONS	0
1-0240G-A0002-001	PANEL LAYOUT AND BILL OF MATERIALS PLC CONTROL PANEL CP-G81	0
1-0240G-A0003-001	POWER DISTRIBUTION WIRING SCHEMATIC PLC CONTROL PANEL CP-G81	0
1-0240G-A0004-001	NETWORK BLOCK DIAGRAM	0
1-0240G-A0005-001	PLC IO WIRING PLC CONTROL PANEL CP-G81 DISCRETE INPUT - RACK 0, MODULE 4	0
1-0240G-A0006-001	PLC IO WIRING PLC CONTROL PANEL CP-G81 DISCRETE INPUT - RACK 0, MODULE 5	0
1-0240G-A0007-001	PLC IO WIRING PLC CONTROL PANEL CP-G81 DISCRETE OUTPUT - RACK 0, MODULE 6	0
1-0240G-A0008-001	PLC IO WIRING PLC CONTROL PANEL CP-G81 ANALOG INPUT - RACK 0, MODULE 7	0
1-0240G-A0009-001	AUTOMATIC PUMP CONTROL WIRING SCHEMATIC PLC CONTROL PANEL CP-G81 LOCAL MODE AND PLC MODE OF OPERATION	0
1-0240G-A0010-001	PANEL LAYOUT AND BILL OF MATERIALS INTRINSICALLY SAFE JUNCTION BOX JBA-G82	0
1-0240G-A0011-001	PANEL LAYOUT AND BILL OF MATERIALS CSO INSTRUMENT PANEL	0
1-0240G-A0012-001	LOOP DIAGRAM LEVEL TRANSMITTER LIT-G101	0
1-0240G-A0013-001	LOOP DIAGRAM LOW LEVEL FLOAT SWITCH LSL-G101	0
1-0240G-A0014-001	LOOP DIAGRAM ELECTRICAL CABINET TEMPERATURE TRANSMITTER TT-G681	0
1-0240G-A0015-001	LOOP DIAGRAM 600 VAC POWER FAIL RELAY ESL-G712	0
1-0240G-A0016-001	LOOP DIAGRAM TVSS STATUS RELAY XS-G712	0
1-0240G-A0017-001	LOOP DIAGRAM CSO MONITORING ZT-S851 AND LIT-S951	0

HATCH PATTERNS

EXISTING	PROPOSED	DESCRIPTION
		EARTH OR GROUND ABOVE PIPE
		SAND OR OTHER FINE MATERIAL
		CONCRETE
		WASHED STONE OR GRANULAR MATERIAL
		INTERLOCKING STONE
		METAL
		GRAVEL OR STONE

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
?	PROPERTY LINE
?	CENTER LINE
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM
B.M.	BENCH MARK
TH	TEST HOLE
ELEV	ELEVATION
INV	INVERT
MIN	MINIMUM
MAX	MAXIMUM
SL	STREET LIGHTING
TS	TRAFFIC SIGNALS
ABAND	ABANDONED
BLDG	BUILDING
HSE	HOUSE
CRN	CORNER
OPP	OPPOSITE
C/S OR S/C	CURB STOP
MTS	MANITOBA TELEPHONE SYSTEM
R.O.W.	RIGHT-OF-WAY
WM	WATERMAIN
CULV	CULVERT
MH	MANHOLE
CB	CATCH BASIN
CI	CURB INLET
VERT.	VERTICAL
HORZ.	HORIZONTAL
I.B.	IRON BAR
FIBRE	FIBRE OPTIC
TYP	TYPICAL
X-ING	CROSSING
HYD	HYDRANT
EXIST	EXISTING
N	NORTH
E	EAST
S	SOUTH
W	WEST
W/	WITH
C/W	CONSTRUCTED WITH
CONC	CONCRETE
AC	ASBESTOS CEMENT
VC OR CLAY	VITRIFIED CLAY
CI	CAST IRON
DI	DUCTILE IRON
PVC	POLYVINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE

LEGEND

PLAN VIEW

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
FIRE HYDRANT		
VALVE		
CURB STOP		
REDUCER		
COUPLING OR SLIDDER		
CROSS		
BEND - 11.25°, 22.5°, 45°, 90°		
TEE		
VERTICAL BEND		
ANODE		
REPAIR MARKER		
PLUG		
SEWER PIPE		
MANHOLE		
CATCH BASIN		
CURB INLET		
JUNCTION		
? DITCH		
CULVERT		
SURVEY BAR		
SURVEY MONUMENT		
TREE - DECIDUOUS		
TREE - CONIFEROUS		
HYDRO		
HYDRO POLE		
LAMP STANDARD		
HYDRO POLE W/STREET LIGHTING		
POLE		
GUY ANCHOR		
M.T.S. POLE		
PEDESTAL OR BOX		
CABINET		
M.T.S., SHAW, OR VIDEON		
TRAFFIC SIGNALS		
TRAFFIC LIGHT STANDARD		
GAS		
STEAM		
FIBRE OPTIC		
FENCE		
EDGE OF PAVEMENT OR GUTTER		
EDGE UNPAVED OR GRAVEL ROAD		
?		
PROJECTED ?		
LOT LINE		
SIDEWALK - PATHWAY		
EASEMENT		
EDGE OF BUILDING		
MAILBOX	M	
PARKING METER	P	
TEST HOLE		
TREE LINE OR BUSH		

PROFILE

DESCRIPTION	EXISTING	PROPOSED
WATER PIPE		
HYDRANT TOP		
VALVE		
TEE OR CROSS		
COUPLING OR BEND		
REDUCER		
END OF PIPE		
SEWER PIPE		
UNPAVED GROUND SURFACE		
PAVED GROUND SURFACE - ? PIPE		
GUTTER (NORTH AND WEST)		
GUTTER (SOUTH AND EAST)		
? DITCH (NORTH AND WEST)		
? DITCH (SOUTH AND EAST)		
STRUCTURE		
MANHOLE OR CATCH BASIN		

CONSTRUCTION NOTES

1. ALL PIPE SHALL HAVE CLASS B - TYPE 2 BEDDING
2. INSTALL SEWER BY TRENCHLESS METHODS.
3. BACKFILL UNDER PAVEMENT, IN SIDEWALKS, & WITHIN 1.0 OF PAVEMENT TO BE CLASS 3.
4. BACKFILL IN BOULEVARD TO BE CLASS 5.

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8		
7		
6		
5		
4		
3		
2		
1		

REFERENCE DRAWINGS

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	2024.03.15	

MPE a division of Englobe

DESIGNED BY	M. BAKER	CHECKED BY	
DRAWN BY	D. MCMILLAN	APPROVED BY	
SCALE: HORIZONTAL / VERTICAL	N.T.S.	RELEASED FOR CONSTRUCTION	
DATE	2024-03-15	DATE	

PLOT DATE: 2024 03 15

CONSULTANT DRAWING NUMBER

BID OPPORTUNITY: --

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

RENFREW OUTFALL GATE CHAMBER
2024 UPGRADES
DRAWING INDEX

CITY DRAWING NUMBER 1-0240G-D0002-001-00 SHEET 2 OF 41

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FILE NAME: Index Page.dwg