XXXX XXXX	DISCRETE INSTRUMENTS FIELD OR LOCALLY MOUNTED NOT PANEL OR CABINET MOUNTED NORMALLY ACCESSIBLE TO AN OPERATOR	FIELD DEVICE N CONVENTION: N - 999 - A B C D - 1234 - X	
XXXX XXXX XXXX XXXX	DISCRETE INSTRUMENTS SHARING COMMON HOUSING	PLANT CODE (OPTIONAL) PROCESS AREA	 ALPHA SUFFIX LOOP OR DEVICE NUMBER INSTRUMENT IDENTIFICATION UP TO FOUR CHARACTERS REFER TO ABBREVIATION LI
XXXX XXXX	DISCRETE INSTRUMENTS SECONDARY OR LOCAL CONTROL ROOM FIELD OR LOCAL CONTROL PANEL MOUNTED NORMALLY ACCESSIBLE TO AN OPERATOR		CE ION ISTRUMENT IDENTIFICATION COD
XXXX XXXX	DISCRETE INSTRUMENTS CENTRAL OR MAIN CONTROL ROOM FRONT OF MAIN PANEL MOUNTED NORMALLY ACCESSIBLE TO AN OPERATOR		UP TO FOUR CHARACTERS REFER TO ABBREVIATION LIST PERATING FUNCTION OPTIONAL REFER TO ABBREVIATION LIST
xxxx xxxx	ANNUNCIATOR POINT FIELD OR LOCALLY MOUNTED NOT PANEL OR CABINET MOUNTED NORMALLY ACCESSIBLE TO AN OPERATOR	PROCESS AREA LOOP OR DEVICE NUMBER	
XXXX XXXX	ANNUNCIATOR POINT FIELD OR LOCAL CONTROL PANEL PANEL MOUNTED NORMALLY ACCESSIBLE TO AN OPERATOR	POSITION: N - 999 - A B C D - 1234 - X	
xxxx xxxx	ANNUNCIATOR POINT CENTRAL OR MAIN CONTROL ROOM MAIN PANEL MOUNTED NORMALLY ACCESSIBLE TO AN OPERATOR	PLANT CODE (OPTIONAL) PROCESS AREA	 ALPHA SUFFIX LOOP OR DEVICE NUMBER FUNCTIONAL IDENTIFICATION OR INTERNAL FUNTIONAL COI - UP TO FOUR CHARACTERS
XXXX XXXX	CDACS (COMPUTER DATA ACQUISITION & CONTROL SYSTEM) INPUT, OUTPUT, OR FUNCTION ACCESSIBLE EG. DCS OR SCADA	NOTE: HYPHENS ARE OPTIONAL POINT IDENTIFICAT FUNCTIONAL DESCRIPTION	- REFER TO ABBREVIATION LI
XXXX XXXX	SHARED DISPLAY OR CONTROL DEDICATED SINGLE FUNCTION DEVICE FIELD OR LOCALLY MOUNTED NORMALLY ACCESSIBLE TO THE OPERATOR AT DEVICE	LOOP OR DEVICE NUMBER	 FUNCTIONAL IDENTIFICATION - UP TO FOUR CHARACTERS - REFER TO ABBREVIATION LIS — I / O OR COMMUNICATION TYF
XXXX XXXX	SHARED DISPLAY OR CONTROL SECONDARY OR LOCAL CONSOLE FIELD OR LOCAL CONTROL PANEL VISIBLE ON VIDEO DISPLAY NORMALLY ACCESSIBLE TO AN OPERATOR AT CONSOLE		
xxxx xxxx	SHARED DISPLAY OR CONTROL CENTRAL OR MAIN CONSOLE VISIBLE ON VIDEO DISPLAY NORMALLY ACCESSIBLE TO AN OPERATOR AT CONSOLE	• SLUICE GATE	
XXXX XXXX	PROGRAMMABLE LOGIC CONTROL FIELD OR LOCALLY MOUNTED NOT PANEL OR CABINET MOUNTED NORMALLY ACCESSIBLE TO AN OPERATOR AT DEVICE	SLIDE GATE	SUTTERFLY VALV
XXXX XXXX	PROGRAMMABLE LOGIC CONTROL SECONDARY OR LOCAL CONSOLE FIELD OR LOCAL CONTROL PANEL VISIBLE ON VIDEO DISPLAY ACCESSIBLE TO AN OPERATOR AT CONSOLE	SUBMERSIBLE PUMP	
XXXX XXXX	PROGRAMMABLE LOGIC CONTROL CENTRAL OR MAIN CONSOLE VISIBLE ON VIDEO DISPLAY NORMALLY ACCESSIBLE TO AN OPERATOR AT CONSOLE	M MOTOR	
XXXX XXXX	COMPUTER FUNCTIONS FIELD OR LOCALLY MOUNTED	FLOAT E ELECTRICAL SUPPLY	
xxxx xxxx	COMPUTER FUNCTIONS SECONDARY OR LOCAL COMPUTER VISIBLE ON VIDEO DISPLAY NORMALLY ACCESSIBLE TO AN OPERATOR AT TERMINAL		
XXXX XXXX	COMPUTER FUNCTIONS CENTRAL OR MAIN COMPUTER VISIBLE ON VIDEO DISPLAY NORMALLY ACCESSIBLE TO AN OPERATOR AT TERMINAL	INSTRUMENT SUPPLY, PROCESS TAPS PNEUMATIC SIGNAL	
XXXX XXXXX	COMMUNICATION INTERFACE COMMUNICATES TO AN ADDRESSABLE DEVICE (i.e. DB=DEVICEBUS, MB=MODBUS, E=ETHERNET IY=CURRENT-FIELDBUS, FB=FIELDBUS, PB=PROFIBUS)	ELECTRIC SIGNAL CAPILLARY TUBE OR FILLED SYSTEM ELECTROMAGNETIC OR SONIC SIGNAL (GUIDED)	
OPERATO	RUMENTS & DEVICES NOT NORMALLY ACCESSIBLE TO THE OR OR BEHIND-THE-PANEL DEVICES OR FUNCTIONS MAY BE D BY USING THE SAME SYMBOLS BUT WITH DASHED HORIZONTAL	······· ·····	s

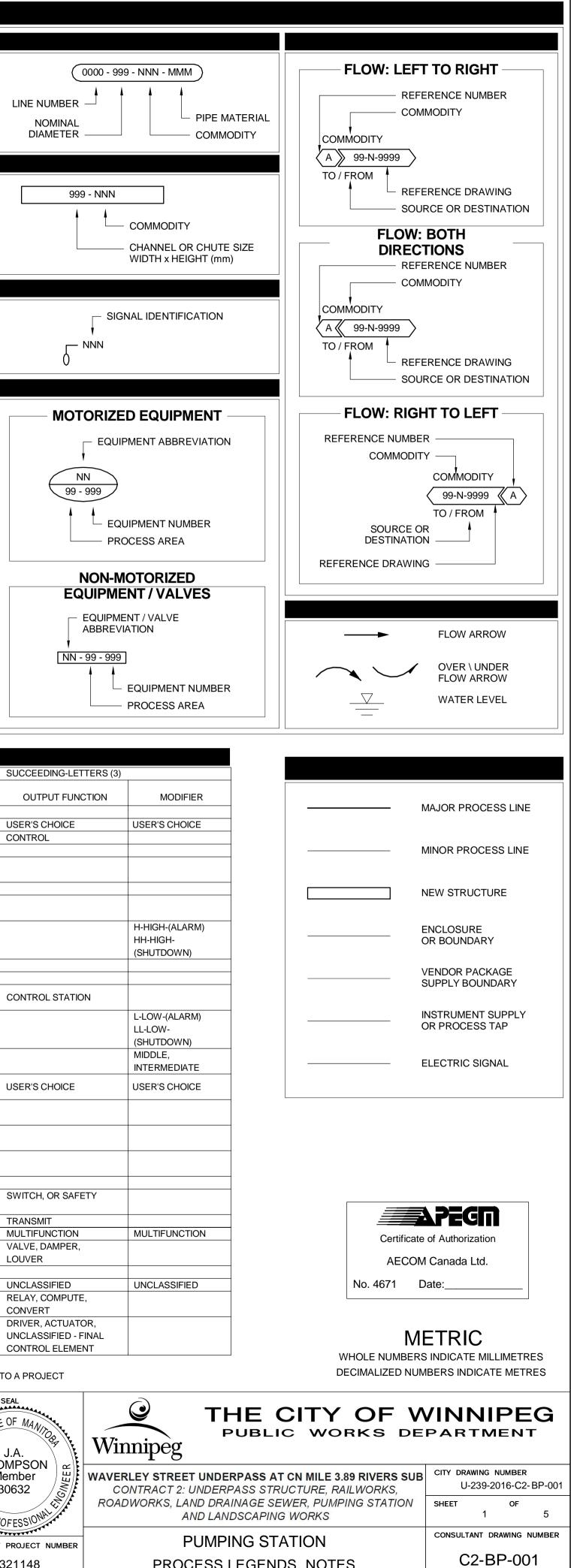
	ANALYTICAL FUNCTIONS
NUMBER	AE XX AE XX AE
NTIFICATION CODE	
REVIATION LIST	EXPOSED PROBE IN-LINE OR GAS DETECTOR IN-DEED OD
	TAPPED OR SAMPLED
CATION CODE	CH4 METHANE
TERS TION LIST	CI2 CHLORINE
	CO CARBON MONOXIDE
	COMB COMBUSTIBLE GAS DO DISSOLVED OXYGEN
TION LIST	HC HYDROCARBONS
	H2S HYDROGEN SULFIDE
	HUM HUMIDITY
	MLSS MIXED LIQUOR SUSPENDED SOLIDS
	NO NITRIC OXIDE
	NO2 NITROGEN DIOXIDE
	NO3 NITRATE
	02 OXYGEN
NUMBER	ORP OXIDATION REDUCTION POTENTIAL OUR OXYGEN UPTAKE RATE
NTIFICATION CODE	OUR OXYGEN UPTAKE RATE
NTIONAL CODE ARACTERS	PO4 PHOSPHORUS
REVIATION LIST	SO2 SULPHUR DIOXIDE
	SS SUSPENDED SOLIDS (DENSITY)
	TSS TOTAL SUSPENDED SOLIDS
ITIFICATION CODE	VIB VIBRATION
ARACTERS EVIATION LIST	SWITCHING FUNCTIONS
	ACK ACKNOWLEDGE (ALARM)
ICATION TYPE	ALOH AUTO-LOCAL-OFF-HAND A/M AUTO/MANUAL
	CLS CLOSE
	COB COMPUTER-OFF-BYPASS
	COH COMPUTER-OFF-HAND
	ESD EMERGENCY SHUTDOWN DEVICE
	F/S FAST-SLOW SELECTION
KBILL CHECK VALVE	FOR FORWARD-OFF-REVERSE FWD FORWARD SELECTION
	FWDFORWARD SELECTIONHAHAND-AUTO SELECTION
FERFLY VALVE	HOA HAND-OFF-AUTO SELECTION
	L/L LEAD-LAG SELECTION
	LOR LOCAL-OFF-REMOTE
	LOS LOCK-OFF-STOP
	L/R LOCAL-REMOTE SELECTION
	M/A MANUAL-AUTO SELECTION
	MAN MANUAL
	0/0 ON-OFF SELECTION OCA OPEN-CLOSE-AUTO SELECTION
	OOA ON-OFF-AUTO SELECTION
	OPN OPEN
	OSC OPEN-STOP-CLOSE SELECTION
	OVR INTERLOCK OVERRIDE SWITCH
	P/M POSITIONER/MANUAL
	P/R PANEL/REMOTE
	POT POTENTIOMETER
	R/B RUN/BYPASS
	R/L RAISE-LOWER REV REVERSE SELECTION
	REV REVERSE SELECTION RST RESET
	SEL SELECTOR SWITCH
	S/S START-STOP
	SP SET POINT

AI AO	ANALOG INPUT ANALOG OUTPUT					
DI DO	DIGITAL INPUT DIGITAL OUTPUT					
I/O	INPUT/OUTPUT					
BFV	BUTTERFLY VALVE					
CV	CHECK VALVE					
М	MOTOR					
Р	PUMP					
SG	SLUICE GATE					
SLG	SLIDE GATE					
DRA	DRAIN					
STM	STORM WATER					
CON	CONCRETE					
CS	CARBON STEEL					

	FIRST LET	ITER (4)		SUCC
LETTER	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	οι
Α	ANALYSIS		ALARM	
В	BURNER, COMBUSTION		USER'S CHOICE	USER'
С	USER'S CHOICE (1)			CONT
D	USER'S CHOICE (1)	DIFFERENTIAL		
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)	
F	FLOW RATE	RATIO (FRACTION)		
G	USER CHOICE (1)		GLASS, VIEWING DEVICE	
н	HAND			
1	CURRENT (ELECTRICAL)		INDICATE	
J	POWER	SCAN		
к	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONT
L			LIGHT	
М	USER'S CHOICE (1)	MOMENTARY		
N	USER'S CHOICE (1)		USER'S CHOICE	USER'
ο	USER'S CHOICE (1)		ORIFICE, RESTRICTION	
Р	PRESSURE, VACUUM		POINT (TEST) CONNECTION	
Q	QUANTITY	INTEGRATE, TOTALIZE		
R	RADIATION		RECORD	
S	SPEED, FREQUENCY, SOLENOID	SAFETY		SWITC
Т	TEMPERATURE			TRAN
U	MULTIVARIABLE		MULTIFUNCTION	MULTI
V	VIBRATION, MECHANICAL ANALYSIS			VALVE LOUVI
W	WEIGHT, FORCE		WELL	
Х	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCL
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELA CONV
Z	POSITION, DIMENSION	Z AXIS		DRIVE UNCL CONT

NOTES: (1) USER'S CHOICE - INTENDED TO COVER UNLISTED MEANINGS SPECIFIC TO A PROJECT (2) INSTRUMENT SYMBOLS AND IDENTIFICATION STANDARD, ISA-S5.1-1984

		B.M. ELEV.			AECOM				ENGINEER'S SEAL	
	SUPV. U/G STRUCTURES DATE					DESIGNED BY	JAT	CHECKED BY	MPG	J.A. THOMPSON Member 30632
	LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION					DRAWN BY	DJP	APPROVED BY	AN	A FRID POOLOGIONAL
AVAILABLE. BUT NO GUAI THAT ALL EXISTING UTILIT THAT THE GIVEN LOCATIO CONFIRMATION OF EXISTEI LOCATION OF ALL SERVIC OBTAINED FROM THE IND	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	OR HOR. SCALE HOR. SCALE CONST	RELEASED FOR CONSTRUCTION		CONSULTANT PROJECT N					
	OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	O NO.	ISSUED FOR TENDER REVISIONS	17/01/09 DATE	DJP BY	DATE	06/01/2016	DATE		60321148
_										



PROCESS LEGENDS, NOTES