AMM AUTOMANUAL BRG BEARING CH COMPUTERHAND CHOM COMP_HANDIOFEMAINT. CIL COMPUTERLOCAL COMPUTER	ABBREVIATIONS								
BERG BEARING CHM COMPUTER/HAND CHOM COMP-HAND/OFFMAINT. CHOMET COMPAND/OFFMAINT. CHOMET COMPUTER/COCAL COMPUTER/COCAL COMPUTER/COCAL COMPUTER/OFF/HAND COMP									
BRG BEARING CHOM COMPUTERHAND CHOM COMPUTERNAND CHOMET COMP.HANDIOFFMAINT. CHOMET COMPUTERLOCAL	ALM	ALARM	NC	NORMALLY CLOSED					
BERG BEARING CH COMPUTER/ANDIOFFMAINT. CHOMET COMP.JHANDIOFFMAINT. CIL COMPUTER/LOCAL COMPUTE	A/M	AUTO/MANUAL	·						
COH COMPUTERIHAND CHOM COMP_HANDIOFFMAINT. CHOMET CAL COMP_HANDIOFFMAINT./ENGINE/TEST CAL COMPUTERI/LOCAL COMP			NO	NORMALLY OPEN					
CHOM COMP_HANDIOFFMAINT. CHOMET COMP_HANDIOFFMAINT./ENGINE/TEST CL COMPUTERIOCAL OPEN OPEN OPEN OPEN OPEN OPEN OPEN OPEN	BRG	BEARING							
CHOMET COMP_HAND/OFF-MAINT_ENGINE/TEST C/L COMPUTER/LOCAL COMPUTER/LOCAL COMPUTER/LOCAL COMPUTER/LOCAL COMPUTER/LOCAL COMPUTER/OFF-MAIND CP CONTROL PANEL CP PP CORREAGE CDE CORREAGE CORREAGE CDE CORREAGE COR	C/H	COMPUTER/HAND	O/A	OUTSIDE AIR					
COLL COMPUTER/LOCAL OPEN OPEN OPEN OPEN OPEN OPEN OPEN OPEN	СНОМ	COMP./HAND/OFF/MAINT.	O/C	OPEN/CLOSED					
COH COMPUTERIOFF/HAND CP CONTROL PANEL CURR CURRENT DEC DECREASE DE DRIVE END DOR DOR DOR DOR E/A EXHAUST AIR ES ELECTRICAL SUPPLY E/S EMERGENCY SHUTDOWN FILK FAIL LAST FOP FAIL COPEN FOR FARDON FIR FORWARD OR REVERSE G G G G G G G G G G G G G G G G G G	CHOMET	COMP./HAND/OFF/MAINT./ENGINE/TEST	ODE	OPPOSITE DRIVE END					
COH COMPUTER/OFF/HAND OP CONTROL PANEL OP CONTROL PANEL OP CONTROL PANEL OP POWER FACTOR PC PROGRAMMABLE LOGIC CONTROLLER PF POWER FACTOR PC PROGRAMMABLE LOGIC CONTROLLER PF POWER FACTOR PROGRAMMABLE LOGIC CONTROLLER PSD PLANT SHUTDOWN PV PROCESS VARIABLE PWR POWER E/A EXHAUST AIR E/S ELECTRICAL SUPPLY E/S EMERGENCY STOP E/S EMERGENCY SHUTDOWN RTD RESISTANCE TEMPERATURE DETECTOR FC FAIL CLOSE FI FAIL INDETERMINATE F/LK FAIL LAST FOP PAIL OPEN F/R FORWARD OR REVERSE G GAS STP STOP STOP STATION F/R HIGH HIGH HIGH HIGH STS STATUS SW SWITCH HIVAC HEATING/VENTILATION/AIR CONDITIONING T TRAP I/P CURRENT TO PRESSURE TRANSDUCER I/P INPUT INC INCREASE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL WS WATER SUPPLY WAS WATER SUPPLY MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL WAS WATER SUPPLY WAS WATER SUPPLY WIND WINDING	C/L	COMPUTER/LOCAL	OPN	OPN OPEN					
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CURR CURRENT CURRENT	СОН	COMPUTER/OFF/HAND	PDV	PUMP DISCHARGE VALVE					
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DOR DOOR PV PROCESS VARIABLE PWR POWER E/A EXHAUST AIR ES ELECTRICAL SUPPLY RSP REMOTE SET POINT E/S EMERGENCY STOP RST RESET ESD EMERGENCY SHUTDOWN RTD RESISTANCE TEMPERATURE DETECTOR FC FAIL CLOSE SOL SOLENOID FILK FAIL LAST FOP FAIL OPEN STN STATION F/R FORWARD OR REVERSE SPD SPEED STDBY STANDBY G GAS STP STOP STR START HI HIGH STS STATUS HP HORSE POWER SW SWITCH HVAC HEATING/VENTILLATION/AIR CONDITIONING TYPE TYPICAL INC INCREASE LCP LOCAL CONTROL PANEL LO LOW VAC VACUUM L/O/S LOCAL//FE/STOP MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL MC WINDING	DEC	DECREASE							
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EZHA EXHAUST AIR ES ELECTRICAL SUPPLY E/S EMERGENCY STOP ESD EMERGENCY SHUTDOWN FC FAIL CLOSE FI FAIL INDETERMINATE FFLK FAIL LAST FOP FAIL OPEN F/R FORWARD OR REVERSE G GAS HI HIGH HORSE POWER HVAC HEATING/VENTILATION/AIR CONDITIONING INCREASE EXHAUST ARS FOR REMOTE SET POINT RST RESISTANCE TEMPERATURE DETECTOR RESISTANCE TEMPERATURE DETECTOR RESISTANCE TEMPERATURE DETECTOR RST RESIST POINT RESIST POINT OR SET POINT (DEPENDING ON APPLICATION) STATION STATION STATION STR START STAT STATUS SW SWITCH THAP TYP SYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY UPS UNINTERRUPTIBLE POWER SUPPLY LOP LOCAL/OFF/STOP UPS UNINTERRUPTIBLE POWER SUPPLY WAC VACUUM ULO/S LOCAL/OFF/STOP UPS UNINTERRUPTIBLE OWER SUPPLY WAC MOTOR CONTROL CENTRE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL WS WATER SUPPLY WINDING	DOR	DOOR	PV	PROCESS VARIABLE					
ES ELECTRICAL SUPPLY E/S EMERGENCY STOP ESD EMERGENCY SHUTDOWN FC FAIL CLOSE FI FAIL INDETERMINATE FOP FAIL OPEN F/R FORWARD OR REVERSE G GAS HI HIGH HORSE POWER HVAC HEATING/VENTILATION/AIR CONDITIONING LO CURRENT TO PRESSURE TRANSDUCER FI/P INPUT INC INCREASE REMOTE SET POINT RESET SAMPLE POINT OR SET POINT (DEPENDING ON APPLICATION) STATION SP SEED SIDBY STANDBY STA STAP STOP STR STAP STOP STR STATT STATUS SW SWITCH T TRAP TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY VAC VACUUM VAC VACUUM LIO/S LOCAL/OFF/STOP VIB VIBRATION VILV VALVE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL WS WATER SUPPLY WINDING			PWR	POWER					
ESS EMERGENCY STOP ESD EMERGENCY SHUTDOWN RST RESET RESET RED RESISTANCE TEMPERATURE DETECTOR FC FAIL CLOSE FI FAIL INDETERMINATE FILK FAIL LAST FOP FAIL OPEN FORWARD OR REVERSE G GAS G GAS STD STANDBY STANDBY STR START HI HIGH HORSE POWER HVAC HEATING/VENTILATION/AIR CONDITIONING I/P CURRENT TO PRESSURE TRANSDUCER I/P INPUT INC INCREASE LOS UNINTERRUPTIBLE POWER SUPPLY V VOLTAGE LO LOW L/O/S LOCAL/OFF/STOP L/R MAIN CONTROL PANEL LOR MOTOR CONTROL CENTRE MCP MAIN CONTROL PANEL WS WATER SUPPLY WS WINDING	E/A	EXHAUST AIR							
ESD EMERGENCY SHUTDOWN RTD RESISTANCE TEMPERATURE DETECTOR REC FAIL CLOSE FI FAIL INDETERMINATE FIK FAIL LAST FOP FAIL OPEN FOP FAIL OPEN FORWARD OR REVERSE G GAS GAS STP STOP STR START HI HIGH HORSE POWER HVAC HEATING/VENTILATION/AIR CONDITIONING INP INPUT INC INCREASE LCP LOCAL CONTROL PANEL LO LOW LLO/S LOCAL/OFF/STOP LIR LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL CENTRE MCC MAIN CONTROL PANEL MCC MOTOR CONTROL CENTRE MCC MCC MCC MCC WACCUM WINDING	ES	ELECTRICAL SUPPLY	RSP	REMOTE SET POINT					
DETECTOR DETECTOR FC FAIL CLOSE FI FAIL INDETERMINATE FLK FAIL LAST FOP FAIL OPEN F/R FORWARD OR REVERSE G GAS GAS GAS GAS STP STOP STR START HI HIGH HORSE POWER HOVE HOUSE POWER	E/S	EMERGENCY STOP	RST	RESET					
FI FAIL INDETERMINATE FILK FAIL LAST FOP FAIL OPEN F/R FORWARD OR REVERSE G GAS GAS HI HIGH HP HORSE POWER HVAC HEATING/VENTILATION/AIR CONDITIONING F/P INPUT INC INCREASE FOR LOCAL CONTROL PANEL LOC LOW L/O/S LOCAL/OFF/STOP L/R LOCAL MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL MCC MAIN CONTROL PANEL MCC MAIN CONTROL PANEL MCC MOTOR CONTROL PANEL MCC MAIN CONTROL PANEL MCC MAIN CONTROL PANEL MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL MCC MOTOR CONTROL PANEL MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL WS WATER SUPPLY MCG WINDING WINDING WINDING MTATION	ESD	EMERGENCY SHUTDOWN	RTD						
FLK FAIL LAST FOP FAIL OPEN F/R FORWARD OR REVERSE G GAS GAS HI HIGH HORSE POWER HOVE HORSE POWER HOUSE H	FC	FAIL CLOSE	SOL	SOLENOID					
FIK FAIL LAST FOP FAIL OPEN F/R FORWARD OR REVERSE G GAS GAS HI HIGH HIGH HORSE POWER HP HORSE POWER HVAC HEATING/VENTILATION/AIR CONDITIONING INC INCREASE LOP LOCAL CONTROL PANEL LO LOW L/O/S LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCP MAIN CONTROL PANEL MCC MAIN CONTROL PANEL MCC MOTOR CONTROL CENTRE MCC MAIN CONTROL PANEL MCC MAIN CONTROL PANEL WS START SW SWITCH VS WAITERUPTIBLE POWER SUPPLY VOLTAGE VAC VACUUM VIB VIBRATION VIB VIBRATION VILV VALVE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL CENTRE MCC MINDING WINDING	FI	FAIL INDETERMINATE	SP						
F/R FORWARD OR REVERSE G GAS G GAS HI HIGH HORSE POWER HIVAC HEATING/VENTILATION/AIR CONDITIONING IVP CURRENT TO PRESSURE TRANSDUCER INP INPUT INC INCREASE UPS UNINTERRUPTIBLE POWER SUPPLY V VOLTAGE LO LOW L/O/S LOCAL/OFF/STOP L/R LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL WS WATER SUPPLY MCC MOTOR CONTROL PANEL WS WATER SUPPLY WAG WINDING	FLK	FAIL LAST	-	(DEPENDING ON APPLICATION)					
G GAS STDBY STANDBY STP STOP STR START HI HIGH HORSE POWER HYAC HEATING/VENTILATION/AIR CONDITIONING IVP CURRENT TO PRESSURE TRANSDUCER IVP INPUT INC INCREASE UPS UNINTERRUPTIBLE POWER SUPPLY V VOLTAGE LO LOW L/O/S LOCAL/OFF/STOP L/R LOCAL/REMOTE WS WATER SUPPLY MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL WS WATER SUPPLY WDG WINDING	FOP	FAIL OPEN	STN	STATION					
G GAS HI HIGH HIGH HORSE POWER HP HORSE POWER HVAC HEATING/VENTILATION/AIR CONDITIONING I/P CURRENT TO PRESSURE TRANSDUCER I/P INPUT INC INCREASE UPS UNINTERRUPTIBLE POWER SUPPLY LCP LOCAL CONTROL PANEL LO LOW L/O/S LOCAL/OFF/STOP L/R LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL WS WATER SUPPLY WDG WINDING	F/R	FORWARD OR REVERSE	SPD	SPEED					
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HI HIGH HP HORSE POWER HP HORSE POWER HVAC HEATING/VENTILATION/AIR CONDITIONING T TRAP I/P CURRENT TO PRESSURE TRANSDUCER I/P INPUT INC INCREASE UPS UNINTERRUPTIBLE POWER SUPPLY LCP LOCAL CONTROL PANEL LO LOW L/O/S LOCAL/OFF/STOP L/R LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCP MAIN CONTROL PANEL WS WATER SUPPLY WMG WINDING	G	GAS	STP	STOP					
HP HORSE POWER HVAC HEATING/VENTILATION/AIR CONDITIONING IT TRAP I/P CURRENT TO PRESSURE TRANSDUCER INC INCREASE UPS UNINTERRUPTIBLE POWER SUPPLY LCP LOCAL CONTROL PANEL LO LOW L/O/S LOCAL/OFF/STOP L/R LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCP MAIN CONTROL PANEL WS WATER SUPPLY WM WATER SUPPLY WDG WINDING			STR	START					
HVAC HEATING/VENTILATION/AIR CONDITIONING I/P CURRENT TO PRESSURE TRANSDUCER I/P INPUT INC INCREASE UPS UNINTERRUPTIBLE POWER SUPPLY LCP LOCAL CONTROL PANEL LO LOW L/O/S LOCAL/OFF/STOP L/R LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCC MOTOR CONTROL PANEL WS WATER SUPPLY WDG WINDING	НІ	HIGH	STS	STATUS					
CONDITIONING I/P CURRENT TO PRESSURE TRANSDUCER I/P INPUT INC INCREASE UPS UNINTERRUPTIBLE POWER SUPPLY LCP LOCAL CONTROL PANEL LO LOW L/O/S LOCAL/OFF/STOP L/R LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCC MAIN CONTROL PANEL W WATER SUPPLY TRAP TRAP TYP TYP TYPICAL V VOLTAGE VAC VACUUM VIB VIBRATION VIB VIBRATION VLV VALVE WS WATER SUPPLY WDG WINDING	HP	HORSE POWER	sw	SWITCH					
I/P CURRENT TO PRESSURE TRANSDUCER I/P INPUT INC INCREASE UPS UNINTERRUPTIBLE POWER SUPPLY LCP LOCAL CONTROL PANEL LO LOW L/O/S LOCAL/OFF/STOP L/R LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCP MAIN CONTROL PANEL WS WATER SUPPLY TST TEST TYP TYPICAL VY VOLTAGE VAC VACUUM VIB VIBRATION VILV VALVE WS WATER SUPPLY WDG WINDING	HVAC		Т Т	TRAP					
I/P INPUT TYP TYPICAL INC INCREASE UPS UNINTERRUPTIBLE POWER SUPPLY V VOLTAGE LO LOW VAC VACUUM L/O/S LOCAL/OFF/STOP VIB VIBRATION L/R LOCAL/REMOTE VIV VALVE MCC MOTOR CONTROL CENTRE MCP MAIN CONTROL PANEL WG WINDING	I/D	CURRENT TO PRESSURE TRANSDUCER							
INC INCREASE UPS UNINTERRUPTIBLE POWER SUPPLY V VOLTAGE LO LOW VAC VACUUM L/O/S LOCAL/OFF/STOP VIB VIBRATION L/R LOCAL/REMOTE VLV VALVE MCC MOTOR CONTROL CENTRE MCP MAIN CONTROL PANEL WS WATER SUPPLY WDG WINDING									
LCP LOCAL CONTROL PANEL LO LOW L/O/S LOCAL/OFF/STOP L/R LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCP MAIN CONTROL PANEL UPS UNINTERRUPTIBLE POWER SUPPLY V VOLTAGE VAC VACUUM VIB VIBRATION VLV VALVE WS WATER SUPPLY WDG WINDING			'''						
LO LOW VAC VACUUM L/O/S LOCAL/OFF/STOP VIB VIBRATION L/R LOCAL/REMOTE VLV VALVE MCC MOTOR CONTROL CENTRE WS WATER SUPPLY MCP MAIN CONTROL PANEL WDG WINDING	IINC	THO NEW YORK	UPS	UNINTERRUPTIBLE POWER SUPPLY					
LO LOW L/O/S LOCAL/OFF/STOP VIB VIBRATION L/R LOCAL/REMOTE MCC MOTOR CONTROL CENTRE MCP MAIN CONTROL PANEL VAC VACUUM VIB VIBRATION VLV VALVE WS WATER SUPPLY WDG WINDING	LCP	LOCAL CONTROL PANEL	V	VOLTAGE					
L/O/S LOCAL/OFF/STOP L/O/S LOCAL/OFF/STOP VIB VIBRATION VLV VALVE MCC MOTOR CONTROL CENTRE MCP MAIN CONTROL PANEL WS WATER SUPPLY WDG WINDING		LOW	VAC	VACUUM					
L/R LOCAL/REMOTE VLV VALVE MCC MOTOR CONTROL CENTRE WS WATER SUPPLY MCP MAIN CONTROL PANEL WDG WINDING			VIB	VIBRATION					
MCP MAIN CONTROL PANEL WDG WINDING		LOCAL/REMOTE	VLV	VALVE					
WICE WITH SOUTH CELLY WILL	мсс	MOTOR CONTROL CENTRE	ws	WATER SUPPLY					
	MCP	MAIN CONTROL PANEL	WDG	WINDING					
IVILD MEGALITATO LETTORY	MLD	MEGALITERS PER DAY							

PROCESS LINE TYPE CODES

AS — AIR SUPPLY ----- CL2 ----- CHLORINE ——— GWD———— GLAND WATER DRAIN ---- IA ----- INSTRUMENT AIR ----- NG ----- NATURAL GAS PD — PROCESS DRAIN

(METRIC EQUIVALENT)

1/8 = 31/4 = 6

1/2 = 12

3/4 = 20

1 = 25

 $1 \frac{1}{4} = 32$

 $1 \, 1/2 = 38$

2 = 5021/2 = 65

3 = 75 $3 \frac{1}{2} = 90$

4 = 100

5 = 125

6 = 150

7 = 175

8 = 200

9 = 225

10 = 25011 = 275

 $4 \frac{1}{2} = 112$

IN MM 14 = 350

18 = 450

20 = 500

22 = 550

24 = 600

26 = 65028 = 700

30 = 750

32 = 80034 = 850

36 = 900

38 = 950

40 = 1000

42 = 1050

44 = 1100

46 = 1150

48 = 1200

50 = 1250 52 = 1300

IMPERIAL PIPE SIZE CHART

INSTRUMENT LINE SYMBOLS

INSTRUMENT SUPPLY OR CONNECTION TO PROCESS --// // // PNEUMATIC SIGNAL ---- ELECTRIC SIGNAL L L HYDRAULIC SIGNAL XXXX CAPILLARY TUBE ELECTROMAGNETIC OR SONIC ELECTROMAGNETIC OR SONIC SIGNAL UNGUIDED

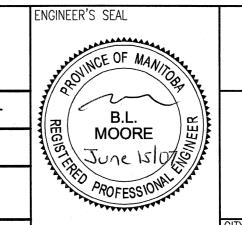
—O—O—O—O DATA / SERIAL LINK (OPTIONAL)

PNEUMATIC BINARY SIGNAL (OPTIONAL)

--+-+-+- ELECTRIC BINARY (ON/OFF) SIGNAL (OPTIONAL)

APEGN Certificate of Authorization UMA Engineering Ltd. (MB) No. 256 Date: June 15/07

B.M. ELEV		FIELD BOOK #:		***************************************		
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					DRAWN BY SCK	APPROVED _
С	ISSUED FOR BID		07/06/15	SCK	HOR. SCALE NTS	RELEASED FOR CONSTRUCTION
В	ISSUED FOR 99% REVIEW		07/05/13	SCK	VERTICAL NIS	CONSTRUCTION
A	ISSUED FOR 75% REVIEW		07/03/04	SCK	07/07/00	DATE
NO.	REVISIONS		DATE	BY	FILENAME: D265-199-00_01-IL0003_RX.dwg	





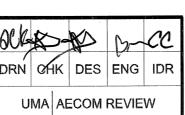
Winnipeg WATER AND WASTE DEPARTMENT

G. C. MACLEAN PUMPING STATION Contract No.
Natural Gas Engine Drives Replacement

Process and Instrumentation Diagrams Legend and Details

CITY DRAWING NUMBER

1-0630A-D-A0003 001 C D



NOTE: