D SIZE 22" x 34" (559mm x 864mm)

FIELD

LG-042-XE-7
ENG #22
FRONT LEFT
VIB SENSOR

LG-042-XE-8
ENG #22
FRONT RIGHT
VIB SENSOR

LG-042-XE-7

LG-042-XE-8

LOOP NO. LG-042-XE-7
LG-042-XE-8

LG-042-TE-7
PP#22 CLUTCH
OUTBOARD BEARING
TEMP SENSOR

LG-042-TE-7

LOOP NO. LG-042-TE-7

PUMP LOCAL CONTROL PANEL

BENTLY NEVADA
RACK POSITION 6
3300/55

CH A | CH B
A
B
NC
BUF
COM
REC

ALERT | DANGER
NC
ARM
NO
NC
ARM
NO

BENTLY NEVADA
RACK POSITION 11-12
3300/35

CHANNEL | COM | OUT
1
A
B
2
NC
BUF
3
COM
REC

ALM 1 | ALM 2
4
NC
ARM
5
NO
NC
6
ARM
NO

PLC

FIELD

GAS ENGINE
OIL PRESSURE
LBG 042 PIT-1
+
-

GAS ENGINE
CRANKCASE
FILTER DIFF.
LBG 042 DIT-1
+
-

GAS ENGINE
COMBUSTION
AIR FILTER
DIFF. LEFT
LBG 042 DIT-2
+
-

GAS ENGINE
COMBUSTION
AIR FILTER
DIFF. RIGHT
LBG 042 DIT-3
+
-

NATURAL
GAS
MASS FLOW
LBG 042 FIT-1
+
-

LOOP NO. LBG-042-PIT-1
LBG-042-DIT-1
LBG-042-DIT-2
LBG-042-DIT-3
LBG-042-FIT-1

120 VAC
POWER SUPPLY
PANEL 'E' CCT. #19

BATTERY CONDITION
FAULT
LBG 042 EAL-1

BATTERY VOLTAGE
LOW
LBG 042 EAL-2

HAND O AUTO
LBG 042 HS-4

LBG 042 HS-5

LOOP NO. LBG-042-EAL-1
LBG-042-EAL-2
LBG-042-HS-4
LBG-042-HS-5

PUMP LOCAL CONTROL PANEL

0.063A
300 _ _+
300 _ _-
300 _ _S

EXISTING
INSTRUMENT
GROUND

2A
1057H
1057N

0.2A
100 _ _H
100 _ _

PLC

AS-BADU-205
ANALOG INPUT
PLC RACK _ , SLOT _

300 _ _
_ _
_ _

LBG-042-PIT-1
ANALOG I/P
ENGINE OIL PRESSURE

LBG-042-DIT-1
ANALOG I/P
ENGINE CRANKCASE
FILTER DIFFERENTIAL
PRESSURE

LBG-042-DIT-2
ANALOG I/P
ENGINE COMBUSTION AIR
FILTER DIFFERENTIAL
PRESSURE LEFT

LBG-042-DIT-3
ANALOG I/P
ENGINE COMBUSTION AIR
FILTER DIFFERENTIAL
PRESSURE RIGHT

LBG-042-FIT-1
ANALOG I/P
NATURAL GAS
MASS FLOW

AS-BDEP-210
DISCRETE INPUT
PLC RACK _ , SLOT _

1057N

100 _ _

LBG-042-EAL-1
DIGITAL I/P
BATTERY CONDITION
FAULT

LBG-042-EAL-2
DIGITAL I/P
BATTERY VOLTAGE
LOW

LBG-042-HS-4
DIGITAL I/P
PRE-LUBE OIL PUMP
HAND

LBG-042-HS-5
DIGITAL I/P
PRE-LUBE OIL PUMP
AUTO

NOTE
1. ALL FIELD WIRING TO BE NEW.

NOTE:

DRN | CHK | DES | ENG | IDR
UMA | AECOM REVIEW

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

NO.	REVISIONS	DATE	BY
C	ISSUED FOR BID	07/06/15	SCK
B	ISSUED FOR 99% REVIEW	07/05/04	SCK
A	ISSUED FOR 75% REVIEW	07/03/15	SCK

B.M. ELEV.
FIELD BOOK #:
POSTED TO LBIS

UMA | AECOM

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HOR. SCALE NTS | RELEASED FOR CONSTRUCTION
VERTICAL NTS
DATE 07/03/09 | DATE
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ENGINEER'S SEAL
PROVINCE OF MANITOBA
B.L. MOORE
June 15/07
REGISTERED PROFESSIONAL ENGINEER

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

G. C. MACLEAN PUMPING STATION
Contract No.
Natural Gas Engine Drives Replacement
Instrumentation - Loop Diagrams
NATURAL GAS ENGINE P-22

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