DESCRIPTION	FIELD DEVICE	J/BOX	CONTROL COMPT ESCUTCHEON DOOR	CONTROL COMPARTMENT	TELEMETRY COMPARTMENT

4 PUMP No 1 RUN/OFF/AUTO SELECTOR SWITCH

5 PUMP No 1 AVAILABLE RELAY

6 PUMP No 1 MAIN CONTACTOR

7 PUMP No 2 RUN/OFF/AUTO SELECTOR SWITCH

8 PUMP No 2 AVAILABLE RELAY

9 PUMP No 2 MAIN CONTACTOR

10 WET WELL WASHER FLOWMETER CONTACT

11 DUTY CHANGEOVER PUSHBUTTON

12 SITE ATTENDED RELAY

13 PUMP No 1 OVERLOAD RELAY

14 PUMP No 2 OVERLOAD RELAY

15

16

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24

24V DC SUPPLY FROM 24VDC5 CB
CONTINUED ON DRG A1-47735 LINE 11

24VDC5 (ORANGE)
0VDC5 (BLACK)

RUN OFF AUTO
REFER DRG A1-47737 LINE 11 & 12

RUN OFF AUTO
REFER DRG A1-47738 LINE 11 & 12

JB
PB1 CA01 FS1
TS2/11
TS2/12

DUTY CHANGEOVER

P1AR
A1-47737 LINE 19

MC1
A1-47737 LINE 33

P2AR
A1-47738 LINE 19

MC2
A1-47738 LINE 33

SAR
A1-47736 LINE 8

P1TOL
A1-47737 LINE 21

P2TOL
A1-47738 LINE 21

24VDC5	(ORANGE)	TEL TS7/21	TEL TS7/1	(WHITE)	S2-1	1 DI-1	DI-1 DO/DIGITAL INPUT 1 PUMP No 1 IN AUTO
S2-1	(WHITE)						
24VDC5	(ORANGE)	TEL TS7/22	TEL TS7/2	(WHITE)	S2-2	2 DI-2	DI-2 DIGITAL INPUT 2 PUMP No 1 AVAILABLE
S2-2	(WHITE)						
24VDC5	(ORANGE)	TEL TS7/23	TEL TS7/3	(WHITE)	S2-3	3 DI-3	DI-3 DIGITAL INPUT 3 PUMP No 1 RUNNING
S2-3	(WHITE)						
24VDC5	(ORANGE)	TEL TS7/24	TEL TS7/4	(WHITE)	S2-4	4 DI-4	DI-4 DIGITAL INPUT 4 PUMP No 2 IN AUTO
S2-4	(WHITE)						
24VDC5	(ORANGE)	TEL TS7/25	TEL TS7/5	(WHITE)	S2-5	5 DI-5	DI-5 DIGITAL INPUT 5 PUMP No 2 AVAILABLE
S2-5	(WHITE)						
24VDC5	(ORANGE)	TEL TS7/26	TEL TS7/6	(WHITE)	S2-6	6 DI-6	DI-6 DIGITAL INPUT 6 PUMP No 2 RUNNING
S2-6	(WHITE)						
24VDC5	(6W)	TEL TS7/27	TEL TS7/7	(WHITE)	S2-7	7 DI-7	DI-7 DIGITAL INPUT 7 WET WELL WASHER FLOW
S2-7	(6Bk)						
24VDC5	(ORANGE)	TEL TS7/28	TEL TS7/8	(WHITE)	S2-8	8 DI-8	DI-8 DIGITAL INPUT 8 DUTY CHANGEOVER
S2-8	(WHITE)						
24VDC5	(ORANGE)	TEL TS7/29	TEL TS7/9	(WHITE)	S2-9	9 DI-9	DI-9 DIGITAL INPUT 9 SITE ATTENDED
S2-9	(WHITE)						
24VDC5	(ORANGE)	TEL TS7/30	TEL TS7/10	(WHITE)	S2-10	10 DI-10	DI-10 DIGITAL INPUT 10 PUMP No 1 OVERLOAD
S2-10	(WHITE)						
24VDC5	(ORANGE)	TEL TS7/31	TEL TS7/11	(WHITE)	S2-11	11 DI-11	DI-11 DIGITAL INPUT 11 PUMP No 2 OVERLOAD
S2-11	(WHITE)						
		TEL TS7/32	TEL TS7/12	(WHITE)	S2-12	12 DI-12	DI-12 DIGITAL INPUT 12 SPARE
		TEL TS7/33	TEL TS7/13	(WHITE)	S2-13	13 DI-13	DI-13 DIGITAL INPUT 13 SPARE
		TEL TS7/34	TEL TS7/14	(WHITE)	S2-14	14 DI-14	DI-14 DIGITAL INPUT 14 SPARE
		TEL TS7/35	TEL TS7/15	(WHITE)	S2-15	15 DI-15	DI-15 DIGITAL INPUT 15 SPARE
		TEL TS7/36	TEL TS7/16	(WHITE)	S2-16	16 DI-16	DI-16 DIGITAL INPUT 16 SPARE
			TEL TS7/17	(PURPLE)	S2-17	17	24V DC PS
			TEL TS7/18	(PINK)	S2-18	18 COM1	
			TEL TS7/E19	(G/Y)	S2-19	19 PGND1	PROT GND
			TEL TS7/E20	(G/Y)	S2-20	20 PGND1	PROT GND

0VDC5 (BLACK)

ACE3600 RTU
SLOT I/O-ID2
MOTOROLA ACE3600 RTU
16 DI
FLN 3552
ERR
24V

DUTY CHANGEOVER OPERATING PHILOSOPHY

NORMAL OPERATION :
RTU CONTROLS DUTY SELECTION OF PUMPS
ALTERNATING DUTY LIGHT IS ON

PUSH THE BUTTON ONCE :
RTU LOCKS DUTY SELECTION TO PUMP No 1
ALTERNATING DUTY LIGHT IS OFF

PUSH THE BUTTON A SECOND TIME :
RTU LOCKS DUTY SELECTION TO PUMP No 2
ALTERNATING DUTY LIGHT IS OFF

PUSH THE BUTTON A THIRD TIME :
SYSTEM REVERTS BACK TO NORMAL OPERATION
RTU CONTROLS DUTY SELECTION OF PUMPS
ALTERNATING DUTY LIGHT IS ON

REVISIONS

No.	DATE	DESCRIPTION	APP'D
13	10/11/20	REVISED CONTACT ORIENTATION.	P.S.
12	17/7/17	REDRAWN IN DGN & ADDED DUTY CHANGEOVER OPERATING PHILOSOPHY.	P.S.

REFERENCES

PLAN No.	TITLE
A1-47731	STANDARD SPS PUMP STATION UP TO 5.5kW (DOL) - I & C - DRAWING INDEX

DESIGNED BY:

OPTIMUM DRAFTING PTY LTD
A.B.N. 28 065 272 942

DO NOT SCALE

CERTIFICATION OF COMPLIANCE WITH GIPPSLAND WATER'S DESIGN & DRAFTING REQUIREMENTS.

DESIGNED: 12/07/2017 - STD DRG
DRAWN: 22/07/2010 - OPT/RJ
CHECKED: 19/07/2017 - P STEWART

GIPPSLAND WATER DRAWING STATUS: STANDARD DRAWING

GIPPSLAND WATER FACILITY CODE: XXCPXX

GIPPSLAND WATER

DRAWING No. A1-47742 REV. 13

STANDARD SEWERAGE PUMP STATION
PUMP STATION UP TO 5.5kW (DOL)
'ACE3600' TELEMETRY SLOT 2 - 16 DI CARD
ELECTRICAL SCHEMATIC DIAGRAM