

LINE SYMBOLS	
	MAIN PROCESS LINES
	SECONDARY PROCESS LINES
	INSTRUMENT CONNECTION TO PROCESS
	DIGITALLY TRANSMITTED
	IN LEFT/OUT RIGHT
	OUT LEFT/IN RIGHT
	DIRECTION OF FLOW

### VALVES

	VALVE, GENERAL SYMBOL
	VALVE, NORMALLY CLOSED
	GATE VALVE
	PLUG VALVE
	NEEDLE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	NON RETURN VALVE
	3 WAY VALVE
	PRESSURE RELIEF OR SAFETY VALVE
	PRESSURE REGULATOR
	AIR VALVE

GENERAL EQUIPMENT ITEMS	
	AGITATOR, MIXER, FAN
	WELL WASHER, SPRAY ARRAY
	CAM LOCK FITTINGS
	LOAD CELL
	PUMP, CENTRIFUGAL
	PUMP, MONO
	BLOWER, FAN
	COMPRESSOR
	INJECTOR
	MOTOR
	STRAINER, GENERAL SYMBOL
	Y STRAINER
	WATER TRAP
	CALIBRATION CYLINDER
	FLUME
	SAFETY SHOWER & EYE WASH
	SCREW PRESS/CONVEYOR
	WEIR

ACTUATORS	
	PISTON (SINGLE ACTING)
	PISTON (DOUBLE ACTING)
	DIAPHRAGM
	DIAPHRAGM WITH POSITIONER
	DIFFERENTIAL PRESSURE DIAPHRAGM
	ELECTRIC MOTOR ACTUATOR
	ELECTRIC SOLENOID
	FLOAT

### INSTRUMENTS

	ULTRASONIC LEVEL TRANSMITTER
	LEVEL SWITCH
	MULTI SEGMENT LEVEL PROBE
	MAGNETIC FLOWMETER
	UNIVERSAL CONTROLLER
	INSTRUMENT FUNCTION DISCRETE INSTRUMENT CMMS NUMBER

INSTRUMENT FUNCTION LETTER CODES			
AS 1101.6-1989 TABLE 2.1			
LETTER	FIRST LETTER	MODIFIER	SUCCEEDING LETTERS
A	ANALYSIS		ALARM
B	BURNER, FLAME		STATE OR STATUS DISPLAY
C			CONTROL
D	DENSITY	DIFFERENCE	
E	ALL ELECTRICAL VARIABLES		SENSING ELEMENT
F	FLOWRATE	RATIO	
G	GAUGING POSITION OR LENGTH		GLASS
H	HAND (MANUALLY INITIATED) OPERATED		HIGH (ALARM)
I			INDICATING
J		SCAN	
K	TIME OR TIME PROGRAM		BARRIER
L	LEVEL		LOW (ALARM)
M	MOISTURE OR HUMIDITY		
N			
O		INTEGRATE OR TOTALIZE	
P	PRESSURE OR VACUUM		TEST POINT CONNECTION
Q			INTERGRATING OR SUMMATING
R	RADIATION		RECORDING
S	SPEED OR FREQUENCY		SWITCHING
T	TEMPERATURE		TRANSMITTING
U	MULTIVARIABLE		MULTIFUNCTION UNIT
V	VIBRATION		VALVE, DAMPER, LOUVRE, ACTUATING ELEMENT, UNSPECIFIED CORRECTING UNIT
W	WEIGHT OR FORCE		WELLS
X			CATHODE RAY TUBE
Y			COMPUTING RELAY, RELAY
Z	POSITION		EMERGENCY OR SAFETY ACTING

REVISIONS	No.	DATE	DESCRIPTION	APP'D
	0	2/11/05	AS BUILTS.	G.C.

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

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

DESIGNED: / /  
DRAWN: 02/11/2005 - OPT/DB  
CHECKED: 15/11/2005 - G CLAYSON

GIPPSLAND WATER SITE CODE  
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DRAWING No. **A2-32919** REV. **0**

**GIPPSLAND WATER**  
PROCESS AND INSTRUMENTATION  
STANDARD SYMBOLS