

PRELIMINARY AND UNCHECKED

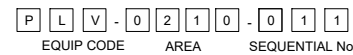
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APPROVED				VENDOR DRAWING No:		101 Wells Street, Frankston, VIC 3199 W : www.sew.com.au T: 61 3 9552 3000 F: 61 3 9552 3001 E: info@sew.com.au		PROCESS AND INSTRUMENTATION DIAGRAM SYMBOLS AND LEGEND SHEET 1		SEW DRAWING NUMBER	
								STD.0000.P.001		D	
								SEW JOB No: AM2996		REV	

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MATERIAL CODES

CODE	PIPE
A1	COPPER, AS1432, TYPE B, ANNEALED TEMPER.
A2	COPPER, AS1432, TYPE B, AS DRAWN TEMPER.
B1	STEEL, AS1579, SCH 40 PIPE OR EQUIVALENT. FLANGED/WELDED/RUBBER RING JOINTS, EPOXY COATED INTERNALLY.
B2	STEEL, AS1579, SCH 40 PIPE OR EQUIVALENT. FLANGED/WELDED JOINTS HOT DIP GALVANISED AND CEMENT LINED WHERE INDICATED.
B3	CARBON STEEL, AS4041, SCH 40 PIPE.
B4	STAINLESS STEEL TUBE, ASTM A269, GRADE 316, FLANGED/WELDED JOINTS.
B5	SPIRAL WELDED STAINLESS STEEL, ASTM A240, GRADE 316.
B6	SPIRAL WELDED STAINLESS STEEL, ASTM A240, GRADE 304.
C1	DUCTILE IRON, RUBBER RING JOINT - AS2280 CLASS K9 CEMENT LINED INTERNALLY.
C2	DUCTILE IRON, FLANGED - AS2280 CLASS K9 CEMENT LINED INTERNALLY.
C3	DUCTILE IRON, RUBBER RING JOINT - AS2280 CLASS K12 CEMENT LINED INTERNALLY.
C4	DUCTILE IRON, FLANGED - AS2280 CLASS K12 CEMENT LINED INTERNALLY.
C5	DUCTILE IRON, RUBBER RING JOINT - AS2280 CLASS K9 EPOXY COATED INTERNALLY.
C6	DUCTILE IRON, FLANGED - AS2280 CLASS K9 EPOXY COATED INTERNALLY.
C7	DUCTILE IRON, RUBBER RING JOINT - AS2280 CLASS K9 EPOXY COATED INTERNALLY.
C8	DUCTILE IRON, FLANGED - AS2280 CLASS K9 EPOXY COATED INTERNALLY.
D1	PLASTIC ABS, AS3518 CLASS 9
D2	PLASTIC ABS, AS3518 CLASS 12
D3	PLASTIC ABS, AS3518 CLASS 15
D4	uPVC (UNPLASTICISED PVC), AS1477, CLASS 9
D5	uPVC (UNPLASTICISED PVC), AS1477, CLASS 12
D6	uPVC (UNPLASTICISED PVC), AS1477, CLASS 16
D7	uPVC (UNPLASTICISED PVC), AS1477, CLASS 18
D8	uPVC (UNPLASTICISED PVC), AS1477, CLASS 20
D9	uPVC (UNPLASTICISED PVC), AS1245, STORMWATER PIPE.
D10	uPVC (UNPLASTICISED PVC), AS1260, SEWER PIPE.
D11	POLYETHYLENE (PE) AS4130, CLASS PN8
D12	POLYETHYLENE (PE) AS4130, CLASS PN10
D13	POLYETHYLENE (PE) AS4130, CLASS PN12
D14	POLYETHYLENE (PE) AS4130, CLASS PN16
D15	POLYETHYLENE (PE) AS4130, CLASS PN18
D16	PVC-M MODIFIED POLY VINYL CHLORIDE PRESSURE PIPE, AS4765-2000, CLASS PN9
D17	PVC-M MODIFIED POLY VINYL CHLORIDE PRESSURE PIPE, AS4765-2000, CLASS PN12
D18	PVC-M MODIFIED POLY VINYL CHLORIDE PRESSURE PIPE, AS4765-2000, CLASS PN16
D19	PVC-M MODIFIED POLY VINYL CHLORIDE PRESSURE PIPE, AS4765-2000, CLASS PN20
D20	PVC HOSE, REINFORCED CLEAR.
E1	REINFORCED CONCRETE DRAINAGE PIPE, AS4058, RUBBER RING JOINT.
E2	REINFORCED CONCRETE SEWER PIPE, AS4058, RUBBER RING JOINT.
F	NOT USED
G1	GLASS FIBRE REINFORCED EPOXY PIPE (GRE), ASTM D-1599, PRESSURE CLASS 1000KPa.
G2	GLASS FIBRE REINFORCED EPOXY PIPE (GRE), ASTM D-1599, PRESSURE CLASS 1200KPa.
G3	GLASS FIBRE REINFORCED EPOXY PIPE (GRE), ASTM D-1599, PRESSURE CLASS 1600KPa.
G4	GLASS FIBRE REINFORCED EPOXY PIPE (GRE), ASTM D-1599, PRESSURE CLASS 2000KPa.
G5	GLASS REINFORCED THERMOSETTING PLASTIC PIPE (GRP), AS3571, PRESSURE CLASS 4
G6	GLASS REINFORCED THERMOSETTING PLASTIC PIPE (GRP), AS3571, PRESSURE CLASS 6
G7	GLASS REINFORCED THERMOSETTING PLASTIC PIPE (GRP), AS3571, PRESSURE CLASS 10
G8	GLASS REINFORCED THERMOSETTING PLASTIC PIPE (GRP), AS3571, PRESSURE CLASS 12.5
G9	GLASS REINFORCED THERMOSETTING PLASTIC PIPE (GRP), AS3571, PRESSURE CLASS 16
G10	GLASS REINFORCED THERMOSETTING PLASTIC PIPE (GRP), AS3571, PRESSURE CLASS 20
G11	GLASS REINFORCED THERMOSETTING PLASTIC PIPE (GRP), AS3571, PRESSURE CLASS 25
H1	VITRIFIED CLAY PIPE, AS1741, RUBBER RING JOINTS.

EQUIPMENT IDENTIFICATION



PIPELINE IDENTIFICATION



VALVE IDENTIFICATION



FLUID CODES

CODE	FLUID
AH	ALCOHOL
AL	ALUM
ACH	ALUMINIUM CHLOROHYDRATE
AM	AMMONIA
ANT	ANTISCALANT
ASW	AIR SATURATED WATER
AU	AIR UTILITY
BG	BIOGAS
BR	BRINE
BW	BACKWASH
CHW	CHEMICAL WASTE
CL	CHLORINE GAS
CLA	CHLORAMINE
CIT	CITRIC ACID
CS	CLEANING SOLUTION
CA	COMPRESSED AIR
CAU	SODIUM HYDROXIDE
CW	COOLING WATER
DAF	DISSOLVED AIR FLOTATION
DE	DECHLORINATED EFFLUENT
DF	DIESEL FUEL
DP	DEGASSED PERMEATE
DS	DIGESTED SLUDGE
DW	DRAIN (PD PLANT DRAIN)
EX	EQUIPMENT EXHAUST
F	FILTRATE
FA	FUOUL AIR
FC	FERRIC CHLORIDE
FW	FIRE WATER
GR	GRIT
HA	HALON
HY	HYDRAULIC
HCL	HYDROCHLORIC ACID
HYP	SODIUM HYPOCHLORITE
IA	INSTRUMENT AIR
L	LIME
LO	LUBE OIL
ML	MIXED LIQUOR
MS	MIXED SLUDGE
N	NITROGEN
DA	ODOUROUS AIR
ORG	ORGANICS RETURN
PS	PRIMARY SLUDGE
PW	POTABLE WATER (TOWN WATER)
PY	POLYMER
R	REFRIGERANT
RAS	RETURN ACTIVATED SLUDGE
RE	RECYCLED EFFLUENT (E EFFLUENT)
RO	RO PERMEATE
RS	RAW SEWAGE
RW	RECYCLED WATER
SC	SCUM
SL	SLUDGE
SBS	SODIUM BISULPHITE
SE	STP EFFLUENT (CLASS C)
SA	SULPHURIC ACID
SCR	SCREENINGS
SH	SODIUM HYPOCHLORITE
S	SUPERNATANT
SE	SECONDARY EFFLUENT
SS	SCREENED SEWAGE
SV	SAFETY VALVE DISCHARGE
SW	STORM WATER
TA	TREATED AIR
TWS	THICKENED WASTE ACTIVATED SLUDGE
UF	UF PERMEATE
VG	VENT GAS
WAS	WASTE ACTIVATED SLUDGE
WW	WASTE WATER

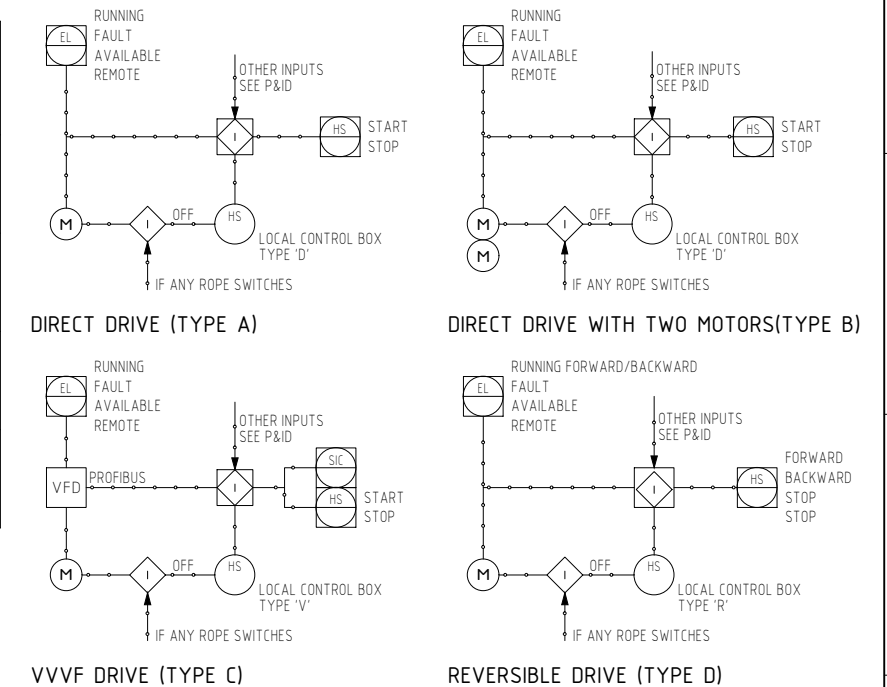
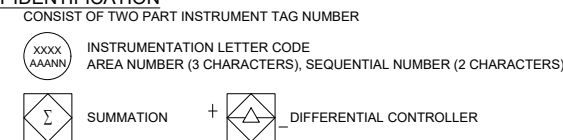
LETTER CODE FOR IDENTIFICATION OF INSTRUMENT FUNCTION (based on ISA 5.1)

INSTRUMENT IDENTIFICATION					
LETTER CODE FOR USE WITH INSTRUMENTS AND CONTROLS					
LETTER	FIRST COLUMN - MEASURED/INITIATING VARIABLE	SECOND COLUMN - VARIABLE/MODIFIER	THIRD COLUMN - READOUT/PASSIVE FUNCTION	FOURTH COLUMN - OUTPUT/ACTIVE FUNCTION	FIFTH COLUMN - FUNCTION MODIFIER
A	ANALYSIS	ALARM	ALARM	.	.
B	BURNER, COMBUSTION	.	USERS CHOICE	USERS CHOICE	USERS CHOICE
C	USERS CHOICE	CONTROL	CONTROL	CONTROL	CLOSE
D	USERS CHOICE	DIFFERENCE	.	DIFFERENCE	DEVIATION
E	VOLTAGE	.	SENSING ELEMENT	.	.
F	FLOW	RATIO	.	.	.
G	USERS CHOICE	.	GAUGE/GLASS/VIEWING DEVICE	.	.
H	HAND OPERATED	.	.	.	HIGH
I	CURRENT	.	INDICATOR	.	.
J	POWER	.	SCAN	.	.
K	TIME/SCHEDULE	TIME RATE OF CHANGE	BARRIER	CONTROL STATION	.
L	LEVEL	.	LIGHT	.	LOW
M	USERS CHOICE	.	.	.	MIDDLE/INTERMEDIATE
N	USERS CHOICE	.	USERS CHOICE	USERS CHOICE	USERS CHOICE
O	USERS CHOICE	.	ORIFICE RESTRICTION	.	OPEN
P	PRESSURE	.	TEST POINT CONNECTION	.	.
Q	QUANTITY	INTERGRATE OR TOTALIZE	INTERGRATE OR TOTALIZE	.	.
R	RADIOACTIVITY	.	RECORDING	---	RUN
S	SPEED OR FREQUENCY	SAFETY	.	SWITCH	STOP
T	TEMPERATURE	.	.	TRANSMITTER	.
U	MULTIVARIABLE	.	MULTIFUNCTION UNIT	MULTIFUNCTION UNIT	.
V	VIBRATION MECH ANALYSIS	.	.	VALVE, DAMPER, LOUVRE	.
W	WEIGHT OR FORCE	.	WELL PROBE	.	.
X	UNCLASSIFIED	X-AXIS	ACCESSORY DEVICES	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT STATE PRESENCE	Y-AXIS	.	AUXILIARY DEVICES	.
Z	POSITION DIMENSION	Z-AXIS SAFETY INSTRU SYSTEM	.	DRIVER ACTUATOR	.

CONTROLS TABLE

	FIELD MOUNTED	PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR	AUXILIARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR	NORMALLY INACCESSIBLE TO OPERATOR (BEHIND THE PANEL)
DISCRETE INSTRUMENTS				
COMPUTER FUNCTION				
SHARED DISPLAY SHARED CONTROL				
PROGRAMMABLE LOGIC CONTROL (P.L.C.)				

INSTRUMENT IDENTIFICATION



NOTES :

- FOR PROCESS AND INSTRUMENTATION DIAGRAM SYMBOLS (P&ID) REFER SEWC. STD.0000.P.001
- FOR AREA NUMBERS ON TREATMENT PLANTS REFER SEWC. STD.0000.P.003
- FOR AREA NUMBERS OF WATER SUPPLY DISTRIBUTION ZONES REFER SEWC. STD.0000.P.004
- FOR SEWERAGE CATCHMENT AREA NUMBERS REFER SEWC. STD.0000.P.004
- FOR ALL EQUIPMENT AND VALVE TYPE CODES REFER SEWC. STD.0000.P.005
- PROCESS AND INSTRUMENTATION DIAGRAMS SHALL BE DRAFTED IN ACCORDANCE WITH SOUTH EAST WATER DRAFTING STANDARD (AM2488)

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DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER					
APPROVED							
0	ISSUED FOR PUBLICATION	GIH	J.T. M.P. 12.07.24				
REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	APPD	DATE	VENDOR DRAWING No:
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SOUTH EAST WATER
PROCESS AND INSTRUMENTATION DIAGRAM
CODES AND INSTRUMENT LEGEND SHEET 2

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
STD.0000.P.002	
SEW JOB No: AM2996	0
REV	

TREATMENT PLANT AREA NUMBERS

AREA NUMBERS	
0100 General 0110 Site 0120 Workshop/spares shed 0130 Admin 0140 Control room 0150 Services (potable, gas, power, comms, fire fighting etc) 0160 Plant Control (PLC/UPS) 0170 Generator	0600 Sludge Drying 0610 Dewatering 0620 Drying (solar dryers/drying pans) 0630 Chemicals
0200 Preliminary/Primary Treatment 0210 Screening 0220 Grit 0230 Odour control 0240 Primary solids removal 0250 Chemicals	0700 Effluent 0710 Onsite re-use 0720 Offsite re-use (A class and C class) 0730 Effluent disposal (A class to Outfall)
0300 Secondary Treatment 0310 Bioreactor 0320 Clarification, 0330 Aeration 0340 Chemicals	0800 Lagoons 0810 Emergency storage lagoons 0820 Sludge lagoons 0830 Treatment lagoons 0840 Effluent storage lagoons
0400 Tertiary Treatment 0410 UF 0420 UV 0430 RO 0440 Chlorination 0450 Chemicals	
0500 Sludge Processing 0510 Thickening 0520 Digestion 0530 Biogas 0540 Chemicals	

STP IDENTIFICATION NUMBER	
TREATMENT PLANT	NUMBER
PAKENHAM	SRP32
MT MARTHA	SRP33
BONEO	SRP34
SOMERS	SRP35
BLIND BIGHT	SRP37
KOO WEE RUP	SRP 38
LANG LANG	SRP39
LONGWARRY	SRP41

TYPICAL IDENTIFICATION LABELS UTILIZING AREA NUMBERS

EQUIPMENT IDENTIFICATION

 AREA

PIPELINE IDENTIFICATION

 AREA

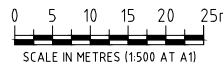
VALVE IDENTIFICATION

 AREA

FOR FULL IDENTIFICATION LABELS
PLEASE REFER TO SEWC. STD.0000.P.002

NOTES :

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- FOR CONTROL TABLE AND CODES REFER SEWC. STD.0000.P.002
- FOR AREA NUMBERS OF WATER SUPPLY DISTRIBUTION ZONES REFER SEWC. STD.0000.P.004
- FOR ALL EQUIPMENT AND VALVE TYPE CODES REFER SEWC. STD.0000.P.005
- USE THE CONFIGURATION OF "0000" FOR AREA CODE WHERE NO AREA IS APPLICABLE
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APPROVED								PROCESS AND INSTRUMENTATION DIAGRAM		MELWAY REF:	
								WRP AREA NUMBERS SHEET 3		SCALE: .	
REV		JOB No		DRAFTER		DES. REVIEW		SEW DRAWING NUMBER		SHEET SIZE: A1	
0		ISSUED FOR PUBLICATION		GIH		J.T.		STD.0000.P.003		0	
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EQUIPMENT TYPE CODES

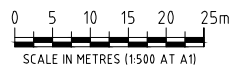
Air Conditioner	ACR	DC Power Supply	DCP	Heater	HTR	Odour Control Media	OCM	Router	ROU	Thermal Detector	THD
Acoustic Sensor	ACS	Decanter	DEC	Hot Water System	HWS	Operator Interface	OIF	RECYCLED WATER PUMP STATION	RP	Thickener	THK
Actuator	ACU	Fire Prevention Deluge System	DEL	Heat Exchange Unit	HXC	Oil Separator	OLS	Back Flow Prevention Device	RPZ	Temperature Controller	TMC
Air Dryer	ADR	Detector	DET	Hydro Mini	HYD	Recirculating Pump	PCL	RECYCLED WATER FACILITY	RR, RT	Temperature Probe	TMP
Aerator	AER	DEFENTION TANK	DET	Injection Lance	IJL	Pump Dosing System	PDS	Rain Sensor	RSR	Tank	TNK
Air Filter	AIF	Dewatering Equipment	DEW	IQ Sensor	IQS	Power Factor Correction	PFC	RTU	RTU	TRC Meter	TRM
Analysar	ANA	Generator	DGS	Irrigator	IRG	Phase Fail Relay	PFR	Site Access Road	SAR	Water Trap	TRP
Anchor Point	ANP	Diffuser	DIF	Isolator -Main Isolator & Motor Starter Isolator	ISO	pH Analyser	PHA	Screw Feeder	SCF	Turret Top	TRT
Antenna	ANT	DO Probe	DOP	BALL	ISV	pH probe	PHP	Screen	SCR	Tank Static Line	TSL
AIR (Air Valve)	ARV	Decanter Position Indicator	DPI	BUTTERFLY	ISV	Pipe	PIP	SCADA Control	SCS	Temperature Switch	TSW
Air Valve	ARV	Damper	DPR	FERRULE	ISV	Pit	PIT	Scum Trap	SCT	Turbine	TUR
Auto Sampler	ASR	Drain	DRN	FERRULE	ISV	Penstock	PKV	Supply Changeover Unit	SCU	Tank Water Pump	TWP
AIR (Air Valve)	AV	Dosing Skid	DSK	FLOAT	ISV	PLC	PLC	Sludge Density Meter	SDM	UF Skid	UFS
Superstructure	BDG	Automatic Drum Shutdown Control Unit	DSU	FOOT	ISV	Pulsation Dampner	PLD	Sludge Drying Pan	SDP	UPS	UPS
Beam	BEA	Evacuation Emergency Light	EEL	GATE	ISV	Power Monitoring Device	PMD	Speed Sensor	SDS	UV Analyser	UVA
Bellow	BEW	Evacuation Emergency Siren	EES	GATE	ISV	Polymer Make Up Unit	PMU	Sludge Turner	SDT	UV Bank	UVB
Baffle	BFL	Export Limiting Meter	ELM	INFR	ISV	Protocol Converter	PRC	Sewer Equipment Access	SEA	UV Controller	UVC
Bin	BIN	Evacuation Emergency Light/Siren	ELS	Isolation Valve	ISV	Pressure Relief Valve	PRF	Sensor	SEN	Waste Water UV Disinfection	UVD
Blanket	BLT	Emergency Lighting	EML	NEEDLE	ISV	Pressure Regulator	PRG	SEWER MONITORING SITE	SF	UV Reactor Intensity Measurement	UVM
Blower	BLW	ELECTRONIC METERED STANDPIPE	EMS	SLUICE	ISV	Probe	PRO	Surge Filter	SGF	Power Conditioner	UPV
Barometer	BMR	EMERGENCY RELIEF STRUCTURE	ERS	SLUICE	ISV	Pressure Gauge	PSG	Sludge Heater	SHR	UV Sensor	UVR
Burner	BNR	Emergency Shower	ESH	STOP	ISV	Pressure Switch	PSH	Sprinkler	SKL	UV System Control	UVS
Bio Tower Vent Stack	BOT	Ethernet Switch	ETS	STOPOCK	ISV	Sump Pump	PSP	Slencer	SILC	UV Unit	UVU
Barge	BRG	Fan	FAN	SLUICE (Isolation Valve)	IV	RECYCLED WATER NETWORK PUMPS	PSR	Sludge Plate	SLP	ALTITUDE	VAL
Camera	CAM	Fire Indicator Panel	FIP	Lagoon	LAG	Rotable Sewer Pump	PSS	Smoke Detector	SMD	Control Valve	VAL
Conductivity Meter	CDV	Floodgate	FLG	Leakage Detector	LDR	Sewer Pump	PSS	Security Monitoring	SME	PRESSURE REDUCING	VAL
Centrifuge	CFG	Filter	FLT	Lifting Equipment	LIF	Pressure Transmitter	PST	Sample Pump	SMP	PRESSURE REDUCING	VAL
Constant Flow Relay	CFR	Flame Arrestor	FMA	Lining	LIN	PUMP	PSW	ODOUR CONTROL STATION	SO	PRESSURE RELIEF	VAL
Chlorination Plant	CHL	Flow Meter	FMR	Level Monitor	LMR	Water Pump (PUMP)	PSW	Solenoid	SOL	PRESSURE SUSTAINING	VAL
CHP Unit	CHP	Frame	FRM	Limit Switch	LMT	Remote Control Sewer Valve (GATE)	PV	Safety Shut off valve	SOV	SCOUR	VAL
Chemscan Unit	CHU	Flow Switch	FSW	Lime Silo Equipment	LSE	Pressure Vessel	PVL	SEWER PUMP STATION	SP	Vibration Sensor	VBS
Chlorine Analyser	CLA	Flow Controller	FWC	Level Switch	LSW	DC Supply renamed to Power Supply	PWS	Spark Arrester	SPA	Vacuum Unit	VMU
Chlorine Leak Detector	CLD	Flow Orifice	FWO	Macerator	MAC	Power Supply (Extra Low Voltage)	PWS	Security PC	SPC	Vent Stack	VSK
Chiller	CLL	Access Gate	GAT	Module	MDL	Polymer Dosing Skid	PYD	Slip Ring	SPR	Wall	WAL
Chlorine Sensor	CLS	Gearbox	GBX	Modem	MDM	Piezometer	PZM	Solar Power	SPW	WATER PRESSURE REDUCING STATION	WB
Compressor	CMP	Gas Cooler	GCL	Pipework Manifold	MFD	Process Pump	PZS	Solar Inverter	SRI	Washdown Bay	WBY
Channel	CNL	Grass Filtration Area	GFA	Mixer	MIX	Radio	RAD	Solar Module Panel	SRM	WATER CHLORINATION PLANT	WC
Contact	CON	Gas Flare	GFL	Monitor	MON	RECYCLED WATER PRESSURE RED. STAT.	RB	Strainer	SRN	WATER DISINFECTION SITE	WC
Capacitor Bank	CPB	Gas Feed Unit	GFU	Low Pressure Sewer Control Box	MONO or EONE	RECYCLED CHLORINATION PLANT	RC	SEWER TREATMENT PLANT	SRP	Water Equipment Access	WEA
Control Panel Power Meter	CPM	Gas Pilot	GPL	Low Pressure Sewer Pump	MONO or EONE	RECYCLED DISINFECTION SITE	RC	Sludge Storage Area	SSA	Weir	WER
ELECTROLYSIS UNIT	CPU	Gas Pressure Relief Valve	GPR	Mobile Plant and Equipment	MPE	RECYCLED DISINFECTION SITE	RC	Starter	STR	Weather Station	WES
ELECTROLYSIS UNIT (ICCU)	CPW	Grit Washer	GRW	Mobile Sewer Pump	MPZ	Remote Communications Logger	RCL	SCOUR (Scour Valve)	SV	WATER MONITORING SITE	WG
Condensate Trap	CST	Gas Detector	GSD	Motor	MTR	CHART RECORDER	RG	Switchboard	SWB	WATER PUMP STATION	WP
Controller	CTR	Amperometric Gateway	GTY	Motion Sensor	MTS	DEPTH	RG	Sludge Withdrawal System	SWS	WATER QUALITY MONITORING SITE	WQ
Cover	CVR	Hatch	HCH	Motorised Weir	MTW	EVAPORATION	RG	Turbidity Meter	TBM	WATER STORAGE FACILITY	WR,WT
Converter	CVT	High Level Pump Operate System	HLP	NON RETURN	NRV	FLOW	RG	Time Clock	TCL	Weight Scale	WSC
Cylinder	CYL	Harmonic Filter	HMF	Non Return Valve	NRV	GENERAL	RG	Time Converter	TCV	Wind Sensor	WSR
Davit Arm Base	DAB	H2S Meter	HSM	REFLUX	NRV	PRESSUE	RG	Pressure Transducer	TDR	Well Washer	WWS
Rescue Davit Arm	DAR	Hose Reel	HSR	Network Switch	NTS	RECYCLED WATER MONITORING SITE	RG	Tank Fall Prevention System	TFP		
		Heat Detector	HTD	Odour Control Facility	OCF	STARLOGGER	RG	Ignition Transformer	TFR		
						RO Controller	ROC				

VALVE TYPE AND FUNCTION MATRIX

VALVE TYPE	VALVE FUNCTION					
	Isolation	Regulation (Control)	Non-Return	Air Valve	Safety Relief	Special Purpose
Gate / Sluice Valve						
Ball Valve						
Butterfly Valve						
Knife Gate						
Globe Valve						
Diaphragm Valve						
Needle Valve						
Plug Valve						
Eccentric Plug Valve						
Piston Valve						
Solenoid Valve						
Swing Check NRV						
Tilt Type NRV						
Ball Type NRV						
Duck Bill NRV						
Flap Valve						
Air Valve						
Vacuum Relief						
Foot Valve						
Multiport Valves						

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- FOR AREA NUMBERS OF WATER SUPPLY DISTRIBUTION ZONES REFER SEWC. STD.0000.P.004
- FOR SEWERAGE CATCHMENT AREA NUMBERS REFER SEWC. STD.0000.P.004
- PROCESS AND INSTRUMENTATION DIAGRAMS SHALL BE DRAFTED IN ACCORDANCE WITH SOUTH EAST WATER DRAFTING STANDARD (AM2488)
- EQUIPMENT TYPE CODES DERIVED FROM MAXIMO UNIFIED ASSET REGISTER
- DISTINGUISH BETWEEN VALVE TYPE AND FUNCTION, IN VALVE SCHEDULE AND DATA SHEETS REFER VALVE TYPE AND FUNCTION MATRIX.
- VALVE TYPE REFERS TO WHAT A VALVE IS.
- VALVE FUNCTION REFERS TO WHAT A VALVE DOES.



CAD FILE NAME: P:\Share\GIS\SEW\1\standard drawing\IP\STP STD\sheet 05 - VALVE TYPE CODES.dwg

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