



GIPPSLAND WATER
STANDARD SEWERAGE PUMP STATION
PUMP STATION 30kW TO 160kW (VSD) - CT METERED
INSTRUMENTATION & CONTROL
DRAWING INDEX

ELECTRICAL / P&ID / CBD / PARTS LIST DRAWINGS

| | |
|----------|--|
| A1-52770 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - INSTRUMENTATION & CONTROL - DRAWING INDEX |
| A1-52771 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - POWER & CONTROL SUPPLIES - SINGLE LINE DIAGRAM - SHEET 1 OF 2 |
| A1-52772 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - POWER & CONTROL SUPPLIES - SINGLE LINE DIAGRAM - SHEET 2 OF 2 |
| A1-52773 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - MAIN DISTBN COMPT - POWER & CONTROL SUPPLIES - ELECTRICAL SCHEMATIC DIAGRAM - SHEET 1 OF 3 |
| A1-52774 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - MAIN DISTBN COMPT - POWER & CONTROL SUPPLIES - ELECTRICAL SCHEMATIC DIAGRAM - SHEET 2 OF 3 |
| A1-52775 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - MAIN DISTBN COMPT - POWER & CONTROL SUPPLIES - ELECTRICAL SCHEMATIC DIAGRAM - SHEET 3 OF 3 |
| A1-52776 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - INSTRUMENT DISTBN COMPT - POWER & CONTROL SUPPLIES - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52777 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - CUBICLE POWER - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52778 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - 24V DC POWER SUPPLIES - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52779 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - 24V AC POWER SUPPLIES - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52780 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - COMMON CONTROL - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52781 | PUMP STATION 30kW TO 45kW (VSD) - CT METERED - PUMP No 1 (QB1PP01) - ELECTRICAL SCHEMATIC DIAGRAM -SHEET 1 OF 2 |
| A1-52782 | PUMP STATION 30kW TO 45kW (VSD) - CT METERED - PUMP No 1 (QB1PP01) - ELECTRICAL SCHEMATIC DIAGRAM -SHEET 2 OF 2 |
| A1-52783 | PUMP STATION 55kW TO 160kW (VSD) - CT METERED - PUMP No 1 (QB1PP01) FLYGT MAS 711 CONTROLLER - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52784 | PUMP STATION 30kW TO 45kW (VSD) - CT METERED - PUMP No 2 (QB1PP02) - ELECTRICAL SCHEMATIC DIAGRAM -SHEET 1 OF 2 |
| A1-52785 | PUMP STATION 30kW TO 45kW (VSD) - CT METERED - PUMP No 2 (QB1PP02) - ELECTRICAL SCHEMATIC DIAGRAM -SHEET 2 OF 2 |
| A1-52786 | PUMP STATION 55kW TO 160kW (VSD) - CT METERED - PUMP No 2 (QB1PP02) FLYGT MAS 711 CONTROLLER - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52787 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - 'ACE3600' TELEMETRY RACK - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52788 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - 'ACE3600' TELEMETRY SLOT 1 - MIXED I/O CARD - ELECTRICAL SCHEMATIC DIAGRAM - SHEET 1 OF 2 |
| A1-52789 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - 'ACE3600' TELEMETRY SLOT 1 - MIXED I/O CARD - ELECTRICAL SCHEMATIC DIAGRAM - SHEET 2 OF 2 |
| A1-52790 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - 'ACE3600' TELEMETRY SLOT 2 - 16 DI CARD - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52791 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - 'ACE3600' TELEMETRY SLOT 3 - 8 DO CARD - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52792 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - WET WELL LEVEL & FLOW mA LOOP - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-70040 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - EMERGENCY STORAGE LEVEL mA LOOP - ELECTRICAL SCHEMATIC DIAGRAM |
| A1-52793 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - PROCESS & INSTRUMENTATION DIAGRAM |
| A1-52794 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE & VSD CUBICLE - PARTS LIST |
| A1-52795 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE & VSD CUBICLE - CABLE BLOCK DIAGRAM |
| A1-73206 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE & VSD CUBICLE - CABLE DETAILS |

SUPPLY CUBICLE DRAWINGS

| | |
|----------|---|
| A1-52796 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - GENERAL ARRANGEMENT |
| A1-52797 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - SECTIONAL ARRANGEMENT |
| A1-52798 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - METERING COMPARTMENT DETAILS |
| A1-52799 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN SWITCH GEAR TRAY & ESCUTCHEON DOOR LAYOUT |
| A1-52800 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - 160A CT GEAR TRAY LAYOUT |
| A1-52801 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - 250A CT GEAR TRAY LAYOUT |
| A1-52802 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - 400A CT GEAR TRAY LAYOUT |
| A1-52803 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 30kW - SHEET 1 OF 3 |
| A1-52804 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 30kW - SHEET 2 OF 3 |
| A1-52805 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 30kW - SHEET 3 OF 3 |
| A1-52806 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 37kW - SHEET 1 OF 3 |
| A1-52807 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 37kW - SHEET 2 OF 3 |
| A1-52808 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 37kW - SHEET 3 OF 3 |
| A1-52809 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 45kW - SHEET 1 OF 3 |
| A1-52810 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 45kW - SHEET 2 OF 3 |
| A1-52811 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 45kW - SHEET 3 OF 3 |

| | |
|----------|---|
| A1-52812 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 55kW - SHEET 1 OF 3 |
| A1-52813 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 55kW - SHEET 2 OF 3 |
| A1-52814 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 55kW - SHEET 3 OF 3 |
| A1-52815 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 75kW TO 90kW - SHEET 1 OF 3 |
| A1-52816 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 75kW TO 90kW - SHEET 2 OF 3 |
| A1-52817 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 75kW TO 90kW - SHEET 3 OF 3 |
| A1-52818 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 110kW TO 132kW - SHEET 1 OF 3 |
| A1-52819 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 110kW TO 132kW - SHEET 2 OF 3 |
| A1-52820 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 110kW TO 132kW - SHEET 3 OF 3 |
| A1-52821 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 160kW - SHEET 1 OF 3 |
| A1-52822 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 160kW - SHEET 2 OF 3 |
| A1-52823 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - MAIN DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT - 160kW - SHEET 3 OF 3 |
| A1-52824 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - INSTRUMENT DISTRIBUTION GEAR TRAY & ESCUTCHEON DOOR LAYOUT |
| A1-52825 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - SUPPLY CUBICLE - GEAR TRAY DRILLING DETAILS |

VSD CUBICLE DRAWINGS FOR PUMP STATIONS

| | |
|----------|--|
| A1-52826 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD CUBICLE - GENERAL ARRANGEMENT |
| A1-52827 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD CUBICLE - SECTIONAL ARRANGEMENT |
| A1-52828 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD P30K & AHF 130B1176 (55A) - GEAR TRAY LAYOUT |
| A1-52829 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD P37K & AHF 130B1180 (66A) - GEAR TRAY LAYOUT |
| A1-52830 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD P45K & AHF 130B1201 (82A) - GEAR TRAY LAYOUT |
| A1-52831 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD P55K & AHF 130B1204 (96A) - GEAR TRAY LAYOUT |
| A1-52832 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD P75K & AHF 130B1207 (133A) - GEAR TRAY LAYOUT |
| A1-52833 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD P90K & AHF 130B1213 (171A) - GEAR TRAY LAYOUT |
| A1-52837 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD P110K & AHF 130B1214 (204A) - GEAR TRAY LAYOUT |
| A1-52838 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD P132K & AHF 130B1215 (251A) - GEAR TRAY LAYOUT |
| A1-52839 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD P160K & AHF 130B1216 (304A) - GEAR TRAY LAYOUT |
| A1-52834 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD CUBICLE - VSD & PHF DOOR CUTOUT DETAILS |
| A1-74337 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - VSD CUBICLE - TELEMETRY COMPARTMENT - GEAR TRAY LAYOUT |

VSD CUBICLE DRAWINGS FOR PUMP STATIONS 30kW TO 45kW

| | |
|----------|---|
| A1-52841 | PUMP STATION 30kW TO 45kW (VSD) - CT METERED - VSD CUBICLE - CONTROL COMPARTMENT - ESCUTCHEON DOOR LAYOUT |
| A1-52842 | PUMP STATION 30kW TO 45kW (VSD) - CT METERED - VSD CUBICLE - CONTROL COMPARTMENT - GEAR TRAY LAYOUT |
| A1-52843 | PUMP STATION 30kW TO 45kW (VSD) - CT METERED - VSD CUBICLE - CONTROL COMPARTMENT - ESCUTCHEON DOOR CUTOUT DETAILS |

VSD CUBICLE DRAWINGS FOR PUMP STATIONS 55kW TO 160kW

| | |
|----------|--|
| A1-52844 | PUMP STATION 55kW TO 160kW (VSD) - CT METERED - VSD CUBICLE - CONTROL COMPARTMENT - ESCUTCHEON DOOR LAYOUT |
| A1-52845 | PUMP STATION 55kW TO 160kW (VSD) - CT METERED - VSD CUBICLE - CONTROL COMPARTMENT - GEAR TRAY LAYOUT |
| A1-52846 | PUMP STATION 55kW TO 160kW (VSD) - CT METERED - VSD CUBICLE - CONTROL COMPARTMENT - ESCUTCHEON DOOR CUTOUT DETAILS |

JUNCTION BOX CUBICLE DRAWINGS FOR PUMP STATIONS 30kW TO 45kW

| | |
|----------|--|
| A1-73207 | PUMP STATION 30kW TO 45kW (VSD) - CT METERED - JUNCTION BOX QB1EJ01 - GEAR TRAY LAYOUT |
| A1-73208 | PUMP STATION 30kW TO 45kW (VSD) - CT METERED - JUNCTION BOX QB1EJ02 - GEAR TRAY LAYOUT |

JUNCTION BOX CUBICLE DRAWINGS FOR PUMP STATIONS 55kW TO 160kW

| | |
|----------|--|
| A1-69676 | PUMP STATION 55kW TO 160kW (VSD) - CT METERED - JUNCTION BOX QB1EJ01 - GENERAL ARRANGEMENT |
| A1-69677 | PUMP STATION 55kW TO 160kW (VSD) - JUNCTION BOX QB1EJ01 - SECTIONAL ARRANGEMENTS & ROOF CANOPY DETAILS |
| A1-69678 | PUMP STATION 55kW TO 160kW (VSD) - JUNCTION BOX QB1EJ01 - PUMP No 1 COMPARTMENT - GEAR TRAY LAYOUT |
| A1-69679 | PUMP STATION 55kW TO 160kW (VSD) - JUNCTION BOX QB1EJ01 - PUMP No 2 COMPARTMENT - GEAR TRAY LAYOUT |
| A1-69680 | PUMP STATION 55kW TO 160kW (VSD) - JUNCTION BOX QB1EJ01 - INSTRUMENT COMPARTMENT - GEAR TRAY LAYOUT |

CUBICLE SHELTER DRAWINGS

| | |
|----------|--|
| A1-74433 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - ELECTRICAL CUBICLE SHELTER - GENERAL ARRANGEMENT |
| A1-74434 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - ELECTRICAL CUBICLE SHELTER - MEMBER LAYOUT AND CONNECTION DETAILS - SHEET 1 OF 2 |
| A1-74435 | PUMP STATION 30kW TO 160kW (VSD) - CT METERED - ELECTRICAL CUBICLE SHELTER - MEMBER LAYOUT AND CONNECTION DETAILS - SHEET 2 OF 2 |

| | | | | | | | | | | | | | | |
|-----------|-----|---------|---|-------|------------|----------|---|--------------|--|--|---|-------------------------|-----------|--|
| REVISIONS | | | | | REFERENCES | | | DESIGNED BY: | <div><div>OPTIMUM</div><div>DRAFTING PTY LTD</div><div>A.B.N. 28 065 272 942</div></div> | CERTIFICATION OF COMPLIANCE WITH GIPPSLAND WATER'S DESIGN & DRAFTING REQUIREMENTS. DESIGNED: 25/01/2018 - STD DRG DRAWN: 25/01/2018 - OPT/CT CHECKED: 25/01/2018 - P STEWART | <div></div> <div>GIPPSLAND WATER</div> | DRAWING No. A1-52770 | REV. 3 | |
| | 3 | 27/9/21 | SPLIT CONTROL & TELEMETRY COMPARTMENT INTO SEPARATE COMPARTMENTS. | P.S. | | | | | | | | | | |
| | 2 | 21/5/21 | ADDED DRAWING A1-73206. | P.S. | | | | | | | | | | |
| | 1 | 7/9/20 | ADDED JUNCTION BOX QB1EJ01 DRAWINGS. UPDATED DRAWING SHEETS. | P.S. | | | | | | | | | | |
| | 0 | 24/9/12 | INITIAL ISSUE. | P.J. | | | | | | | | | | |
| | No. | DATE | DESCRIPTION | APP'D | | A1-52770 | STD SPS - PUMP STN 30kW TO 160kW (VSD) - CT METERED - I & C - DRG INDEX | | | | | | | |
| | | | | | | PLAN No. | TITLE | | | | | | | |
| | | | | | | | | | | | STANDARD SEWERAGE PUMP STATION PUMP STATION 30kW TO 160kW (VSD) - CT METERED INSTRUMENTATION & CONTROL DRAWING INDEX | | | |