# BESS Alinta Wagerup Peaking Power Station

*Field Inspection Checklist – Cable Trench culverts installation*

# Document Number: **RR-SEPD-BESS-FIC-008-01**

# Document Information

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| **Checklist title** | **Cable Trench Culvert installation** |
| **Checklist No** | RR-SEPD-BESS-FIC-008 |
| **Lot Description** |  |
| **Revision no.** | 01 |
| **Revision Date (DD/MM/YYYY)** | 07/08/2025 |
| **Description of Changes** | Updated content |

# Document Review

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| **Prepared by:** | | | |
| **Responsibility** | **Name** | **Signature** | **Date (DD/MM/YYYY)** |
| **Drafted by (Engineer)** | John O Mahony | **John O Mahony** | 28/04/2025 |
| **Reviewed by (Supervisor)** | Jake Scott |  | 28/04/2025 |
| **Approved by (Manager)** | Artur Krupinski |  | 28/04/2025 |

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| **Part 1 – Preliminaries (photos where applicable)** | | | | | | |
| **Inspection/Test item** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| **ROBAR** | **SEPD** |
| 1.1 | Review of approved construction drawings and specifications | All drawings and specifications approved and up to date | WBS-SS-CI-SPC-006 |  |  |  |
| 1.2 | Verification of permits | All relevant permits (GDA/GDP) in place | GDA/GDP |  |  |  |
| 1.3 | Site access and safety preparation | Site access cleared and made safe | WBS-SS-CI-SPC-006 |  |  |  |
| 1.4 | Safety inductions and toolbox talks | All personnel inducted; safety briefings completed | Induction record |  |  |  |
| 1.5 | Environmental controls in place | Dust, noise, and sediment barriers installed and functioning | SEPD environmental requirements |  |  |  |
| **Part 2 – Excavation and trenching (photos where applicable)** | | | | | | |
| **Inspection Acceptance** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| 2.1 | Trench depth and width comply with design | Set-out verified and matches IFC drawings | Site IFC Drawings  AS/NZS 3500 |  |  |  |
| 2.2 | Stable trench walls (benching, battering) | Trenches deeper than 1.5m require benching or battering unless certified by a geotechnical engineer. | WBS-SS-CI-SPC-006  AS 4744 |  |  |  |
| 2.3 | Culverts inspected for defects before installation | Material certs from manufacturer and visual inspection  Material to align with design drawings and load rating | Manufacturer certifications |  |  |  |
| 2.4 | No water accumulation in trenches | No standing water or excessive moisture inside the trench. | AS/NZS 3500 |  |  |  |
| 2.5 | Spoil stockpiles located at least 1m from trench edges | Stockpiles away from excavation to maintain safety of batters | WBS-SS-CI-SPC-0006 |  |  |  |
| 2.6 | Correct bedding material used (sand, gravel, etc.) | Material complies with particle size, moisture content, MMDD | WBS-SS-CI-SPC-0006 Test material results |  |  |  |
| 2.7 | Bedding installed and screeded to correct heights | Installed to design levels & alignment +-20mm | WBS-SS-CI-SPC-0006 |  |  |  |
| **Part 3 – Culvert Installation (photos where applicable)** | | | | | | |
| **Inspection Acceptance** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| 3.1 | Culverts laid at correct grade and alignment | Levels and grading match design tolerances (+/- 20mm) | WBS-SS-CI-SPC-0006, Survey Report |  |  |  |
| 3.2 | Joints between culverts sealed as specified | Joints must be fully engaged and sealed as per manufacturer specifications:   * 10mm nominal gap * Backing rod or equivalent installed * Bostik SealnFlex P590 installed between culverts * Proofex S Tape installed over sealant | Manufacturer specifications |  |  |  |
| 3.3 | Concrete Lid Installation | Installed on top of packers and sealan | AS/NZS 3500 |  |  |  |
| 3.4 | Joints between lids sealed as specified | Joints must be fully engaged and sealed as per manufacturer specifications:   * Nominal 10mm gap * Backing rod or equivalent installed * Bostik SealnFlex P590 installed to outside longitudinal joint both sides of lid * Bostik SealnFlex P590 installed to outside tranversal joints in-between lids | Manufacturer specifications |  |  |  |
| 3.5 | Reinforcement Protection | Apply 5mm layer of Megapoxy P1 or approved equivalent | Manufacturer Specifications |  |  |  |
| **Part 4 – Backfilling and compaction (photos where applicable)** | | | | | | |
| **Inspection Acceptance** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| 4.1 | Initial backfill material placed evenly around culverts | Backfill installed evenly in controlled lifts on either side of culverts | Geotechnical report  AS/NZS 3725 |  |  |  |
| 4.2 | No large rocks or debris in backfill | No rocks or debris in backfill | WBS-SS-CI-SPC-0006 |  |  |  |
| 4.3 | Backfilling in controlled layers (300mm lifts) | Backfilling activities to be conducted as per:   * Stab sand mass fill if access or program constraints requires it * Site won fill with uniform layers of maximum 300mm thickness | WBS-SS-CI-SPC-0006 |  |  |  |
| 4.4 | Compaction tests performed and passed. | Compacted as per specifications | WBS-SS-CI-SPC-0006  AS 1289 |  |  |  |
| **Part 5 – Final inspections and acceptance (photos where applicable)** | | | | | | |
| **Inspection Acceptance** | | **Acceptance Criteria** | **Specifications/Drawings Reference** | **(Yes/No/NA)** | **Initial & Date** | |
| 5.1 | As-built survey verification | As-built levels and layout of installed structures match design and comply with tolerances | As-Built Drawings  Survey Report  WBS-SS-CI-SPC-0006 |  |  |  |
| 5.2 | Final inspection & Punch List sign-off | Works inspected with the client and Punch List items (if applicable) closed out | WBS-SS-CI-SPC-0006 |  |  |  |

# Document Sign-off

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| **Prepared by:** | | | |
| **Responsibility** | **Name** | **Signature** | **Date (DD/MM/YYYY)** |
| **ROBAR (Engineer)** |  |  |  |
| **SEPD (Engineer)** |  |  |  |