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| **Annexure MRTS04.1 (June 2023)** | | |
| **General Earthworks** | | |
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| **Specific Contract Requirements** | | |
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| **Contract Number** | |  |
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| Note: | Clause references within brackets in this Annexure refer to Clauses in the parent Technical Specification MRTS04 unless otherwise noted. | | |

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| Clearing and grubbingAdditional width for clearing and grubbing (Clause 7.2.1) | | |
|  | The maximum additional width for clearing and grubbing is |  |

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| Areas to be cleared and grubbed (Clause 7.2.1) | |
|  | The following areas are to be cleared and grubbed in addition to those specified. |
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| Trees required by the Administrator (Clause 7.2.3) | |
|  | The following trees are required by the Administrator for use as marketable timber. |
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| Additional requirements for clearing and grubbing (Clause 7.2.8) | |
|  | The following requirements apply to clearing and grubbing operations additional to those specified in Clause 7. |
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| Stripping of topsoil (Clause 8.2)Areas to be stripped (Clause 8.2) | | |
|  | The following areas are to be stripped of topsoil to the depth stated. | |
|  | Location | Average depth (mm) |
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| Refer to the Soil Management Plan – Planning in the environmental documents and/or the Schedule of Rates for estimated topsoil volumes and areas and depths for topsoil stripping required. |

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| Topsoil stockpile locations (Clause 8.4.1) | |
|  | The following areas on the Site are available for the stockpiling of topsoil. |
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| Embankment foundations (Clause 9.2) | | | |
|  | The following minimum allowable bearing pressures or minimum California Bearing Ratios (CBRs) shall apply to foundations for embankments. | | |
|  | Location | Minimum allowable bearing pressure (kPa) | Minimum CBR |
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| High risk soilsAcid Sulfate SoilsInitial assessment of Acid Sulfate Soils on the Site (Clause 10.1.2) | | | | | |
|  | Acid Sulfate Soils have been identified on the Site. | Yes |  | No |  |

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| Location of Acid Sulfate Soils (Clause 10.1.2) | |
|  | The locations of any Acid Sulfate Soils on the Site are stated below. |
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| Likely deposits of Acid Sulfate Soils (Clause 10.1.2) | | | | | | |
|  | Likely deposits of Acid Sulfate Soils exist on the Site | Yes | |  | No |  |
|  |  | | | | | |
|  |  | | No assessment | | |  |

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| Location of likely deposits of Acid Sulfate Soils (Clause 10.1.2) | |
|  | The locations of any likely deposits of Acid Sulfate Soils on the Site are stated below. |
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| Site‑specific requirements (Clause 10.1.3) | |
|  | The following site‑specific requirements apply to the assessment and treatment of Acid Sulfate Soils. |
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| Water treatment (Clause 10.1.7) | |
|  | The standard to be attained prior to discharge of contaminated water is as follows. |
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| Slaking and Dispersive soils | | | | | |
| Pre-construction assessment of Slaking and Dispersive soils on the Site (Clause 10.2.1) | | | | | |
|  | A pre-construction assessment of Slaking and Dispersive soils has been undertaken | Yes |  | No |  |
|  |  | | | | |
|  | Documents relevant to pre-construction assessment of Slaking and Dispersive soils | | | | |
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| Location of Slaking and Dispersive soils (Clause 10.2.1) | | | | | |
|  | Dispersive and Slaking soils have been identified on the Site | Yes |  | No |  |
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|  | The location of Slaking and Dispersive soils on the Site identified from pre-construction assessments are stated below: | | | | |
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| Project-specific requirements for on-site management of Slaking and Dispersive soils (Clause 10.2.1) | |
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| Areas available for the Deposition of Surplus Material (Clauses 7.2.7, 11.2 and 11.3) | |
| Deposition in areas on the Site (Clauses 7.2.7 and 11.2) | |
|  | The following areas on the Site are available for the Deposition of Surplus Material. If no areas are indicated, all such material shall be removed from the Site. |
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| Deposition in areas off-site (Clauses 7.2.7 and 11.3) | |
|  | The following Deposition Areas have been identified and assessed by the Principal for suitability as possible sites for Deposition of Surplus Material.  The Contractor may elect to utilise any of these Deposition Areas. The Contractor shall make its own assessment of the access conditions and capacity of the Deposition Areas.  Where no off-site Deposition Areas are indicated, the Contractor may elect to identify and assess sites for suitability.  NOTE: Any conditions of use and the types of materials that have been assessed shall also be specified here. |
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| Ground surface treatmentAdditional areas for standard ground surface treatment (Clause 12.2.1.1) | |
|  | Standard ground surface treatment shall be carried out on the following areas additional to those specified in Clause 12.2.1. |
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| Ground surface treatment, special, measured in square metres (Clause 12.2.2) | | |
|  | The following are the Contract‑specific requirements for special ground surface treatment. | |
|  | Area | Requirements |
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| Areas to be tyned (Clause 13.3.1) | |
|  | The following areas shall be lightly tyned. |
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| Excavation – pre‑splitting of batters (Clause 13.3.2.3) | |
|  | Batters in the following areas are required to be pre‑split. |
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| EmbankmentsEarth fill material – additional properties (Clause 14.2.2, Clause 14.3.1, Clause 18.2.1 and Clause 18.3.4.2) | | | | | | |
| Earth fill material shall have the following properties. Where information is not specified below, earth fill material shall have the properties specified in Clause 14.2.2. | | | | | | |
| Material description | Depth below Subgrade Level (if applicable) | Property requirements | | | | |
| Minimum CBR (%) | CBR soaked condition | CBR target density % | CBR target moisture content | Other |
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| In preparing this Annexure, the Designer should nominate a CBR requirement for all subgrade fill material that is within 1.5 m of subgrade level, taking into account:   * any assumed 'select fill' layers or allowable reduction in subgrade strength with depth * guidance on the CBR soaked conditions provided in Transport and Main Roads' Pavement Design Supplement to Austroads' Guide to Pavement Technology Part 2 Pavement Structural Design * the CBR target density should be nominated, taking into account the compaction requirements of Clause 15 of MRTS04, and * the CBR target density ratio would typically be nominated as 97.0%. This density ratio takes account of the nominated compaction standards in Clause 15 of MRTS04 and recognition of the increased confinement for applications greater than 300 mm below Subgrade Level, and * the CBR target moisture content would typically be nominated as 100% of Optimum Moisture Content (OMC) unless specific conditions dictate otherwise.   These properties also apply to fill material used in subgrade treatments in cuttings up to a depth of 1.5 m.  This Clause may also be used to specify properties that apply to material other than subgrade fill where applicable. This may include, but is not limited to properties such as CBR, gradings and WPI. |

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| Special embankment materials (Clause 14.2.8) | | |
|  | The following are the requirements for special embankment materials. | |
|  | Area | Requirements |
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| Embankment zones (Clause 14.3.1) | | | | | |
|  | Embankments construction shall be: |  | | | |
|  | Zoned |  |  |  |  |
|  | Homogenous |  |  |  |  |
|  | Either |  |  |  |  |

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| Zoned and homogeneous embankment fill material (Clause 14.3.1) | | |
|  | The following are the requirements for embankment fill material. | |
|  | Area | Requirements |
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| Rainfall zone (Clause 15.3) | | | | |
|  | The rainfall zone which applies to the Contract is: | | | |
|  | High (> 1000) |  |  |  |
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|  | Medium (500 – 1000) |  |  |  |
|  |  | | | |
|  | Low (< 500) |  |  |  |

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| Borrow on the SiteAreas for borrow on the Site (Clause 17.2) | |
|  | The following areas on the Site are available for borrow of additional material. If no areas are indicated, no material shall be borrowed from areas on the Site. |
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| Requirements for borrow on the Site (Clause 17.2) | |
|  | The following additional requirements shall apply to borrowing operations on the Site. |
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| Subgrade | | | | |
| Unbound granular material (Clause 18.2.2) | | | | |
|  | Unbound pavement material shall be of the following subtype. | | | |
|  | For use in unbound treatments |  |  |  |
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|  | For use in insitu stabilised treatments |  |  |  |
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|  | For use in plant‑mixed stabilised treatments |  |  |  |

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| Insitu stabilising agent (Clause 18.2.5.1) | |
|  | The stabilising agent and its rate of application for insitu stabilisation shall be as follows. |
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| When filling in this Clause, refer to the guide notes in Clause 18.2.5.1 of MRTS04 for further information. |

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| Subgrade treatment(s) (Clauses 18.3.3.1 to 18.3.3.13 and Table 18.3.3.2) | | | |
|  | The following subgrade treatment(s) shall be applied where stated. | | |
|  | Location | Treatment type | Depth of treatment (mm) |
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| Subgrade treatment Type K (Clause 18.3.3.13) | |
|  | Subgrade treatment Type K shall be in accordance with the following provisions. |
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| Existing subgrade testing (Clauses 18.3.4.2 and 18.4) | | | | |
|  | Testing of existing subgrade is required by the Contractor | | | |
|  |  | **Yes** |  |  |
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|  | **As nominated by the Principal (below)** | |  |  |
|  |  | | | |
|  | As directed by the Administrator | |  |  |

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| For Design and Construction Contracts, testing of existing subgrades is typically required in all circumstances unless specifically nominated by the Principal.  For Construct‑Only Contracts, testing of existing subgrades is often not required as the subgrade has been tested and its strength taken into account during the design process; however, where only limited subgrade testing has been undertaken, the Principal may elect for the Contractor to undertake additional verification testing during construction.  Where existing subgrade testing is nominated 'as directed by the Administrator', it is intended this activity would be called up for specific activities such as determining subgrade treatment types and so on.  This Clause is not applicable to testing of subgrade fill material. The requirements for testing subgrade fill material are specified in Appendix A of MRTS04. |

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| Transitions from cut to fill (Clause 18.3.4.2) | | | | | |
|  | Existing foundation material beneath near grade embankments is to be tested by the Contractor | Yes |  | No |  |
|  |  |  |  |  |  |
|  | Transition treatments shall continue for a distance of 10 metres into the cuttings. | Yes |  | No |  |

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| Supplementary requirements (Clause 22) | |
|  | The following supplementary requirements shall apply. |
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