|  |  |  |  |
| --- | --- | --- | --- |
| Specific Job Requirements | | Compiled | Type here |
| Job No. | Type here | Verified | Type here |
| Principal Engineer (Preconstruction)  Date |

# Contract type

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Construction Contract No. | | | @ Type here | | | | | Job No. | | @ Type here | | |
| District | | | | | | Local Government | | | | | | |
| @ Type here | | | | | | @ Type here Shire | | | | | | |
| Federal Electorate | | | | | | State Electorate(s) | | | | | | |
| @ Type here | | | | | | @ Type here | | | | | | |
| Project Programming | | | | | | | | | | | | Federal Funded Project |
| Program Year(s) | Type here | | | | Total Allocated | | Type here | | | | | **No** |
| Construction Years | Type here | | | | | | | | | | | **Yes** |
| Method of Construction | | | | | | | | | | | | |
| Open Market Contract | | Type here | | | | Sole Invitee Contract | | | | | Type here | |
| Type of Construction Contract | | | | | | | | | | | | |
| TIC‑CO | | | | TIC‑D&C | | | | | TIC‑SI | | | |
| Schedule of Rates | | | | Lump Sum | | | | | Separable Portion for | | | |
| \* Where Reinforced Soil Structures (RSS) are necessary, the RSS shall be Lump Sum.  Remaining work shall be Schedule of Rates or lump Sum as specified above. | | | | | | | | | | | | |

# Hydraulic analysis and design

|  |  |  |  |
| --- | --- | --- | --- |
| Cross Drainage | % Probability | | |
| When designing cross drainage, the Head Water Level should generally be designed to allow 100 mm freeboard to the shoulder, as recommended in the Road Drainage Manual.  However, in difficult situations, immunity Head Water level may be allowed to encroach onto the lane (refer drainage design manual). This applies where floods larger than the design flood could cause unacceptable flooding upstream or damage the road in overtopping. | | | |
| Road Surface Drainage | | | |
| **Component** | | **Average Recurrence Interval** | |
| **Design (Years)** | **Check (Years)** |
| Gazetted Road | | | |
| Gutters | | 10 | 25 |
| Inlets | | 20 | 50 |
| Table Drains | | 20 | 50 |
| Catch Banks | | 20 | 50 |
| Shire Road | | | |
| Gutters | | 5 | 25 |
| Inlets | | 5 | 50 |
| Table Drains | | 10 | 50 |
| Bridge Decks | | 20 | 50 |
| Intersections | | 20 | 50 |

# Lighting

|  |  |
| --- | --- |
| Intersection Lighting | Route Lighting |
| Type here | Type here |
| Road, Intersection or Cul‑de‑sac | |
| Type here | |

# Design year

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Design year\*** |  | **Design year\*** |
| Pavement Design | 20 | Temporary Connection | 20 |
| Traffic Lanes | 20 | Traffic Signal Ducting | 15 |
| Intersection Design | 15 | Interchanges | # |
| \* Years after opening to traffic (Consultant to calculate year based on project let for construction six months after completion of design Contract). | | | |
| # Refer Austroads Guide to Road Design Part 4C: Interchanges and local standards. | | | |

# Geotechnical investigation

|  |
| --- |
| Minimum requirements: |
| Soaked CBR tests (1 point) on existing pavement at @ locations. |
| Soaked CBR tests (4 point) on subgrade / insitu material at @ locations. |
| Grading and Atterberg limits on existing pavement (base and sub‑base) at @ m intervals. |
| Grading and Atterberg limits on subgrade / insitu material at @ m intervals. |
| Exploratory pits at @ locations including DCP, Moisture Content, Soil Classification and layer depths. |
| Bridge foundations |
| As per Clause 8.2.2 of the Austroads Guide to Bridge Technology Part 4: Design Procurement and Concept Design. |

# Environmental and Cultural Heritage Management

***@TypeHere Project Manager to delete reference to Cultural Heritage Agreements if not applicable to Contract.***

**Cultural Heritage Agreements**

The Consultant shall refer to C7559*Terms of Reference for Cultural Heritage Assessment,* which identifies standard requirements for the Cultural Heritage Agreements (CHFA, CHMA or CHMP). Note that only departmental staff can sign off on agreements, therefore the departmental Project Manager and District Cultural Heritage Officer must be involved in key decision‑making steps and any signing meetings.

(Where applicable, add additional items to be undertaken as part of the agreement process.)

***@TypeHere Project Manager to delete reference to Historical / European Heritage Approvals if not applicable to Contract.***

**Historical / European Heritage Approvals**

The Consultant shall refer to C7559 *Terms of Reference for Cultural Heritage Assessment* which identifies standard requirements for the Historical / European Heritage Approvals.

(Where applicable, add additional items to be undertaken as part of the approvals process.)

***@TypeHere Project Manager to delete reference to Historical / European Heritage Approvals if not applicable to Contract.***

**Cultural Heritage Contract Documentation**

The Consultant shall refer to C7559 *Terms of Reference for Cultural Heritage Assessment,* which identifies standard requirements for the Contract Documentation.

(Where applicable, add additional items to be undertaken as part of the Contract documentation process.)

Table 6.1 Scope of Cultural Heritage Agreements, Approvals and Contract Documentation

|  |  |  |
| --- | --- | --- |
|  | **Not required** | **Required** |
| CHFA | ☐ | ☐ |
| CHMA | ☐ | ☐ |
| CHMP | ☐ | ☐ |
| Historical / European Heritage Approvals | ☐ | ☐ |
| Contract Documentation | ☐ | ☐ |

@ Type here Project Manager to delete reference to REF if not applicable to Contract.

Terms of Reference for Review of Environmental Factors

The scope of the Review of Environmental Factors shall be determined based on the risks and uncertainty identified in the Preliminary Environmental Assessment.

The department’s C7558 Terms of Reference for Review of Environmental Factors identifies assessments required for desktop, standard field and high‑risk field assessments of each of the environmental factors. The Consultant shall refer to C7558 Terms of Reference for Review of Environmental Factors and undertake the assessment corresponding to the level identified in Table 6.2 following. Where the assessment identifies greater uncertainty or risk than previously identified, the Consultant shall inform the Principal and propose a suitable assessment level.

**Table 6.2: Review of environmental factors assessment level by environmental factor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Environmental Factor | Assessment level | | | |
| Out of Scope | Desktop | Standard Field | High‑risk Field |
| Water |  |  |  |  |
| Soil and Land |  |  |  |  |
| Ecosystems and Habitat |  |  |  |  |
| Flora |  |  |  |  |
| Fauna |  |  |  |  |
| Biosecurity Matters |  |  |  |  |
| Air |  |  |  |  |
| Amenity |  |  |  |  |
| Resource Use and Waste |  |  |  |  |
| Special Areas and Land Tenures |  |  |  |  |
| Other – @ Type here Please specify additional assessments or deliverables for environmental assessment and management here. |  | | | |
| Environmental Management Plan (Planning) |  | | | |