FURNITURE AND FIXTURES 08D

MUNICIPAL INFRASTRUCTURE TECHNICAL SPECIFICATION 08 - INCEDENTAL WORKS

Transport Canberra and City Services
July 2019
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<td>Karl Cloos Director, Infrastructure Planning</td>
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**Document Information**

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**Revision Register**

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1  FURNITURE AND FIXTURES

1.1  General
General: This Specification comprises the construction of proprietary landscape furniture and fixtures including seats and benches, bin enclosures, tree grates, bicycle racks, bollards, design and construct shade sails, fixed shelters, BBQ’s, drinking fountains, flag poles.

Exclusions: custom design elements, proprietary toilet blocks, fencing and barriers, signage, connections to sanitary drainage.

1.2  Responsibilities
Requirement: Provide for all works and activities associated with the supply and installation of furniture and fixtures in accordance with the design documents including Authority Approvals.

1.2.1  Cross references
General: The following documents are related to this Specification:

1.2.1.1  ACT Legislation
Environmental Protection Act
Work Health and Safety Act
Waste Minimisation Act

1.2.1.2  Specifications
Requirement: Conform to the following:

MITS 00  Preliminaries
MITS 02  Earthworks
MITS 03  Underground services
MITS 09  Landscape

1.2.1.3  Design Standards
General: The following Design Standards are related to this Specification:

MIS 16  Urban open space
MIS 17  Shopping centres and commercial areas
MIS 19  Sportsground design
MIS 20  Street and park furniture
MIS 21  Recreation Facilities
Attachment B Design acceptance requirements
1.2.1.4 **TCCS Reference Documents**

General: The following TCCS reference documents are related to this Specification:

Reference document 04 Protection of public landscape assets
Reference document 07 Operational acceptance submissions
Reference document 08 Works as executed quality records
Reference document 09 Final acceptance submissions
Reference document 10 Landscape consolidation
Reference document 11 Drafting Standard for Civil and Landscape works

1.2.2 **Referenced documents**

1.2.2.1 **Standards**

General: The following documents are incorporated into this Specification by reference:

AS 4174 Synthetic Shade Cloth
AS 1170 Structural Design Actions
AS 4100 Steel Structures
AS 1554 Welding of Steel Structures
AS 2741 Shackles
AS 3500 Plumbing and Drainage – Water services
AS/ NZS 3000 Electrical Installations
AS 1530.2 Methods for fire tests on building materials, components and structures Fire-resistance test of elements of construction
AS 4020 Testing of products for use in contact with drinking water
AS 3688 Water supply – metallic fittings and end connectors
AS/NZS 3718 Water supply – tap ware
AS 5200 Technical specification for plumbing and drainage products
AS 3996 Access, Covers and Grates
AS 1254 uPVC-U pipes and fittings for stormwater and surface water applications
AS 1477 PVC pipes for pressure applications
AS 1646 Elastomeric seals for waterworks purposes
AS 2033 Installation of polythene pipe systems
AS 2053 Conduits and fittings for electrical installations Rigid metal conduits and fittings
AS 2280 Ductile iron pipes and fittings
AS 2566 Buried flexible pipelines Structural design
AS 1477 PVC pipes and fittings for pressure applications
1.2.2 Other Publications
Building Code of Australia (BCA) Volumes 1 and 2
HB 295.3.21 Australian Handbook – Product Safety Framework- Gaps and Openings Finger entrapment
Proprietary products: To TCCS Products previously considered for use list

1.2.3 Interpretation

1.2.3.1 Abbreviations
General: For the purposes of this Specification the following abbreviations apply:
TCCS: Transport Canberra and City Services

1.2.3.2 Definitions
General: For the purposes of this Specification the definitions given below apply:
Proprietary item: a product sold under a brand name owned by a company, rather than a generic name (a general name for a type of product).
Furniture/fixture: any proprietary fixed item which is to be installed in the landscape
Authorised person: PAP/ Superintendent/Client of the Works

1.2.4 Hold points and witness points

1.2.4.1 Notice
General: Give notice so that the documented inspection and submissions may be made to the Hold point table, the Witness point table.

Table 8D-1 Hold points table

<table>
<thead>
<tr>
<th>Item</th>
<th>Clause title</th>
<th>Requirement</th>
<th>Notice for inspection</th>
<th>Release by</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Materials</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8D.1</td>
<td>Standard drawings - furniture and fixtures</td>
<td>Submit installation details and colour schedule for each element</td>
<td>Four (4) weeks prior to commencement of installation</td>
<td>Authorised person</td>
</tr>
<tr>
<td>8D.2</td>
<td>Shop Drawings – Shade Sails</td>
<td>Submit shop drawings for shade sails</td>
<td>Four (4) weeks prior to commencement of installation</td>
<td>Authorised person</td>
</tr>
<tr>
<td>8D.3</td>
<td>Samples</td>
<td>Submit samples for each element</td>
<td>Four (4) weeks prior to commencement of installation</td>
<td>Authorised person</td>
</tr>
<tr>
<td></td>
<td><strong>Execution</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8D.4</td>
<td>Compaction - Subgrade</td>
<td>Submit information confirming conformance</td>
<td>48 hours prior to installation of base</td>
<td>Authorised person</td>
</tr>
<tr>
<td>Item</td>
<td>Clause title</td>
<td>Requirement</td>
<td>Notice for inspection</td>
<td>Release by</td>
</tr>
<tr>
<td>------</td>
<td>--------------</td>
<td>-------------</td>
<td>-----------------------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>8D.5</strong></td>
<td>Compaction - Base</td>
<td>Submit information confirming conformance</td>
<td>48 hours prior to installation decomposed granite gravel</td>
<td>Authorised person</td>
</tr>
<tr>
<td><strong>8D.6</strong></td>
<td>Compaction – decomposed granite gravel</td>
<td>Submit information confirming conformance</td>
<td>Completion of installation of decomposed granite gravel</td>
<td>Authorised person</td>
</tr>
<tr>
<td><strong>8D.7</strong></td>
<td>Set out – Furniture, Fixtures, Shade sails etc</td>
<td>Advise that setout is complete</td>
<td>Two (2) days prior to installation</td>
<td>Authorised person</td>
</tr>
<tr>
<td><strong>8D.8</strong></td>
<td>Setout – all services (electrical, water, drainage etc)</td>
<td>Advise that setout is complete for alignment of electrical conduit</td>
<td>Two (2) days prior to excavation of trenching</td>
<td>Authorised person</td>
</tr>
<tr>
<td><strong>8D.9</strong></td>
<td>Shade Sails – footing excavation</td>
<td>Advise that footings have been excavated</td>
<td>Two (2) days prior to installation of posts and backfilling</td>
<td>Authorised person</td>
</tr>
<tr>
<td><strong>8D.10</strong></td>
<td>Decomposed Granite Gravel</td>
<td>Incorporation of Stabiliser</td>
<td>During installation of decomposed granite gravel</td>
<td>Authorised person</td>
</tr>
<tr>
<td><strong>8D.11</strong></td>
<td>Furniture delivery to site</td>
<td>Advise that the furniture / fixtures have been delivered to site and are ready for installation</td>
<td>Prior to installation of items</td>
<td>Authorised person</td>
</tr>
<tr>
<td><strong>8D.12</strong></td>
<td>Line and level</td>
<td>Advise that furniture has been installed to conforming line and level</td>
<td>At completion of installation of furniture / fixtures</td>
<td>Authorised person</td>
</tr>
<tr>
<td><strong>8D.13</strong></td>
<td>Shade Sails</td>
<td>Mousing off of all connections</td>
<td>At completion of installation</td>
<td>Authorised person</td>
</tr>
<tr>
<td><strong>8D.14</strong></td>
<td>Operation and Maintenance Manuals</td>
<td>Submit warranty and maintenance manuals</td>
<td>Prior to Operational Acceptance</td>
<td>Authorised person</td>
</tr>
</tbody>
</table>

**Table 8D-2 Witness points table**

<table>
<thead>
<tr>
<th>Item</th>
<th>Clause title</th>
<th>Requirement</th>
<th>Notice for inspection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Execution</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>8D.1</strong></td>
<td>Operation and Maintenance Manuals</td>
<td>Submit warranty and maintenance manuals</td>
<td>Prior to Operational Acceptance</td>
</tr>
</tbody>
</table>
1.3 Pre-construction planning

1.3.1 Submissions

1.3.1.1 Standard drawings – Furniture and Fixtures
General: Submit the manufacturer’s standard drawings showing installation details; and colour schedule for each item.

Requirement: Ensure co ordination between finished design surface and in ground or surface fixing requirements for all items before commencement of construction.

This is a HOLD POINT

1.3.1.2 Ordering of proprietary items
Requirement: Order proprietary items with sufficient lead time to achieve program dates.

1.3.1.3 Shade Sails - Shop Drawings and Structural Certification
Requirement: Provide shop drawings and structural certification for approval prior to ordering of shade sails. Shop drawings will include:

> Accurate location of other elements (equipment, pavement, furniture etc) in relation to shade sails
> Footing designs
> Height of each post including depth of bury in support ground (Shop drawings must clearly demonstrate installation in different pavement surfaces including playground softfall materials such as organic loose fill)
> Setout and clearances as follows:
  > Between shade sail fabric and the accessible points of any playground equipment– minimum 3.0m
  > Between posts and fences / furniture and climbable items – minimum 1.5m
  > Posts to be outside the fall zones of playground equipment
  > No interference by the sail fabric or posts with tree canopies
> Fail safe back up at each connection of posts to sail
> Shade diagrams
> Anti climb features (where detailed)

Certification: provide certification from a structural engineer that the shade sail design conforms to the following:

> Wind region A
> Terrain category (project specific)
> Fittings load rated with minimum 4 x safety factor
> Connections engineered to maximum design loads

1.3.1.4 Shade Sails Sample
Samples: Submit the following samples:

> 300mm x 300mm sample of the sail material accompanied by the associated material specifications
> 300 x 300mm square sample of corner and edge section demonstrating the incorporation of stainless steel fittings and quality of seams and finish
1.4 Materials

1.4.1 Decomposed granite gravel
Description: Naturally occurring granitic gravel material, free from vegetable matter and other adverse constituents.

Plasticity Index: between 9 and 15

Maximum Liquid Limit: 35

Colour: As per design documents

Grading: 100% of material shall pass through a 25mm sieve.

1.4.2 Subgrade
Standard: To AS 3798 Section 4

Quality: Clean, stable, free from perishable materials and capable of compaction to the nominated density.

Re-use excavated material: Only re-use material in conformance with AS3798 Clause 4.4.

1.4.3 Base
1.4.3.1 General:
Specification: Crusher dust, road base or granular material to conform to this specification.

Maximum particle size: not more than one third of the sub base thickness

Maximum amount passing 75µm sieve: 15%

Material properties: unless noted otherwise, conform to the following:

> Liquid limit: ≤35% to AS 1289.3.1.1
> Plasticity index: ≤12% to AS 1289.3.3.1
> Linear shrinkage: ≤6% to AS 1289.3.4.1

1.4.4 Electrical and water services
Stormwater pipe specification: un-plasticised uPVC in DWV Quality in accordance with AS1260

Water pipe specification: Copper tube in accordance with AS1432

Electrical conduits: orange uPVC electrical conduit>
1.4.5 Shade sail materials

Fittings and Fixings: High grade stainless steel.

Steel columns: pre galvanised steel (suited to powdercoat/ paint finish), continuous length, minimum 350 grade structural CHS, capped with continuous filet weld, minimum 160mm dia

Chain: closed connection load rated stainless steel chain links sufficient to withstand worst load case on shade sail as per AS1170.

Rejection: Jointed sections of steel for posts, tap on caps for posts, eyebolts, turnbuckles, wire slings and friable links will not be accepted.

Sail fabric qualities: conform to the following minimum requirements:

- 1400N Warp,
- 2200n weft per 50mm
- 4700kPa bursting pressure
- Commercial 95% UV high density polyethylene monofilament
- UV protection for fabric to be minimum UVR of 80%, desirable 90%
- UV stabilised PTFE stitching
- Fabric reinforcement in areas of concentrated stress such as corners, seams and connection points
- Flammability of materials index to have a spread factor of 0 and a heat factor of less than or equal to 1 in accordance with AS1530.2
- Sail edge binding: nominal 8mm stainless steel cable edge reinforcing
- All stress points on sails to be double layer reinforced e.g. corners, catenary curves, seams.

Warranties: Provide warranty certificates with the following minimum requirements:

- Steelwork: 10 years
- Membrane: 10 years UV degradation on fabric
- Membrane stitching: 15 years UV graduation
- Webbing: 5 years UV degradation
- Workmanship: 5 years
- Paint finish: 10 years
1.5 Execution

1.5.1 Decomposed granite gravel

1.5.1.1 Excavation and Subgrade Preparation

Clearing and Grubbing: To MITS 02A Clearing and grubbing

General: Construct in accordance with the design documents

Subgrade: Compact to 95% MMDD

Proof roll: where required, proof roll in the presence of the authorised person. If directed, remove unsatisfactory subgrade and replace with clean granular select fill to achieve required compaction.

Base: Where detailed, install base material and compact to 95% MMDD.

1.5.1.2 Installation

Decomposed Granite Gravel: Install decomposed granite gravel to depth nominated on the design drawings.

Stabiliser: Incorporate proprietary stabiliser additive in accordance with manufacturer’s recommendations. Cement shall not be used.

This is a WITNESS POINT

Compaction: 95%MMDD for path areas. If required, roll the surface in the presence of the Authorised Person to demonstrate compaction.

Testing: Compaction testing frequency. Refer to MITS 00B Quality construction

Finish: Visually homogenous surface with no dips or hollows of even gradient.

Tolerance: ±10mm over a 3m straight edge. Refer to MITS 00B Quality construction

Rejection: Non homogenous surface finish with dips and hollows.

Rectification: If rectification is required, surface shall be scarified and regraded until the regular finish of the required surface density at the required levels, grades, profiles and tolerances has been achieved.

1.5.2 General – installation of proprietary items

1.5.2.1 General

Requirement: Order items as nominated on the design documents with sufficient lead time to achieve program dates.

Coordination: The contactor is responsible for co ordination with each supplier.

TCCS requirement: Local Authority Building Approval of shade sails.

1.5.2.2 Setout

Setout: Accurately setout all furniture and fixtures in accordance with the drawings.

This is a HOLD POINT
1.5.2.3  Installation

Delivery to site: Deliver furniture to site in a secure location. Inspect and confirm compliance with design documentation. Inspect condition upon delivery. Replace and keep intact protective wrappings on and do not remove until construction completion.

This is a WITNESS POINT

Installation: Install in accordance with manufacturer’s recommendations and details unless otherwise detailed. Make allowance for co-ordination with the supplier/manufacturer to ensure warranties are not voided.

Fixings and fittings: Use fittings and fixings supplied with the items. Where not provided, fixings shall be galvanised or stainless steel to meet the requirements of the manufacturer’s details. Fixings to be compatible with the metal type of the item to avoid galvanic corrosion.

Line and Level: All items shall be installed plumb unless otherwise detailed.

This is a WITNESS POINT

1.5.3  Items requiring electrical connection

Requirement: Install all works in accordance with the approved electrical design documents.

Specification for installation of electrical conduits: to MITS 03G Service conduits.

Requirement: Works shall be carried out by a licensed electrician.

Standards: Building Code of Australia, AS3000 and AS3008

Mains disconnection: Contractor to confirm Authority Approvals, permits, and pay any associated fees and charges prior to works commencing.

Supply capacity: Prior to commencement of works, where required by the design documentation test on site to confirm that sufficient capacity is available from the supply source for the item being installed.

Setout: Prior to commencement of excavation setout accurately onsite the following

- Location and orientation of fixture to achieve requirements as per the design documents.
- Conduit routes. Conduit routes shall be outside Tree Protection Zones or in accordance with the Tree Management Plans.
- Location of pull pits
- Meter location

This is a HOLD POINT.

Installation of conduits and wiring: Complete installation of trenching / boring as required by the design documents.

Meter: Install meter and meter pit/switch board etc in accordance with the approved design and to meet the Authority requirements. Install in ground meters with surrounding surface treatments. Where in grass install with a minimum 150mm wide x 100mm depth concrete edge or as per the design documents.

Earthing: Contractor to ensure that all items are earthed in accordance with AS3000.
1.5.4 Items requiring water connection

Requirement: Install all works in accordance with the approved Hydraulic Services plans.

Specification: To MITS 03E Water Supply Reticulation and MITS 03B Pipe drainage.

Plumbing approval: Obtain plumbing approval if required by the design documentation.


Requirement: Works shall be carried out by a licensed plumber.

Mains water connection: Contractor to confirm Authority Approvals, permits, and pay any associated fees and charges prior to works commencing works.

Supply Pressure: Where required by the design documentation, the Contractor shall test onsite to confirm pressure and flow rate of existing water supply and notify Superintendent if minimum / maximum working pressure is unsuitable for item being installed.

Setout: Prior to commencement of excavation, setout accurately onsite the following:

- Location and orientation of fixture to achieve requirements as per the design documents.
- Pipe route. Pipe route shall be outside Tree Protection Zones or in accordance with the Tree Management Plans.
- Meter location.
- Stop Valve location between mains line and meter.

This is a HOLD POINT

Meter: Install meter in accordance with the approved design and to meet the Authority requirements. Install flush with surrounding surface treatments. Where in grass install with a minimum 150mm wide x 100mm depth concrete edge or as per the design documents.

Taps: Tapware must be secured to a solid heavy duty standpipe in accordance with the design documents.

Drainage: All new drainage to be constructed of uPVC pipe and connected to SW outflow or as per approved design documentation.

1.5.5 Shade sails

1.5.5.1 General

Co ordination: The contactor is responsible for co ordination with the supplier.

Installer requirements: Installation must be by an installer licensed to carry out shade sail installation with minimum Class B Licence.

Standards: AS4174, AS1170, AS4100, AS2741, AS4055, AS1530 BCA

1.5.5.2 Building Approval

Building Approval: arrange for and pay for the appointment of an ACT licensed building surveyor for certification of the shade sail installation and lodgement of necessary documentation to local authorities.
1.5.5.3  **Setout**
Requirement: Setout the shade sail posts in accordance with the design documentation. Mark accurately onsite for review by Authorised Person to demonstrate compliance.

This is a **HOLD POINT**.
Clearances to play equipment and fixed elements: Ensure minimum clearances as shown on the design documentation. Seek direction from the Authorised Person where the following are not achieved (Refer Preconstruction planning)

Tree Pruning: If directed, carry out tree pruning to *MITS 02A Clearing and grubbing* and in accordance with the design documentation.

1.5.5.4  **Installation**

Excavation for columns: Arrange for building certifier/ structural engineer to inspect footings prior to installation of posts.

This is a **HOLD POINT**

Footings in organic playground softfall: finish minimum 300mm below finish surface of loose fill material. Top and leading edges of concrete footing to have a continuous 15mm rounded chamfer all round. Finish to top of footing shall be smooth. Grind off any dags or rough finish.

Posts in grass: install concrete mowing edge in accordance with design documents. Where not shown, a minimum collar of 150mm wide x 100mm depth is to be installed.

Mousing: Mouse off all connections to prevent from working loose.

This is a **WITNESS POINT**

1.6  **Completion**

1.6.1.1  **Submissions**

Work as Executed Records: To *MITS QOB Quality Requirements*.

1.6.1.2  **Connection to existing services**

Completion: Carry out all authority approvals and testing in accordance with Authority requirements including payment of any associated fees and charges prior to connection.

1.6.1.3  **Operation and Maintenance Documents**

Requirement: Supply product installation, inspection and maintenance information.

Proprietary Items: Provide the following documents:

- Manufacturers / suppliers installation drawings for each piece of equipment.
- Operation manuals, inspection / maintenance requirements
- Manufacturers guarantees and warranty certificates
- Construction / maintenance tools including non standard tools for bolt tightening and replacement parts.
Shade sails: Provide the following documents:

- Manufacturers maintenance instructions including type, frequency and method of inspection
- Maintenance requirements for the membrane, structure and components
- Running in requirements such as tightening of fastenings
- Provide non-standard tools for bolt tightening and replacement parts.
- Warranties.

This is a HOLD POINT.

2 MEASUREMENT AND PAYMENT

2.1 Measurement

2.1.1 General

Payments made to the Schedule of Rates: To MITS 00 Preliminaries, this Specification, the drawings and Pay items inclusive.

2.1.2 Methodology

The following methodology will be applied for measurement and payment:

- Allow for all work, materials, testing and quality assurance requirements in each Pay Item.
- Clearing and grubbing to MITS 02A Cleaning and grubbing
- Detailed excavation, disposal of spoil and preparation of subgrade: to this Specification
- Removal of unsuitable material: to MITS 02B Bulk earthworks
- Base: to this Specification
- Slotted drainage pipe and filter material: to MITS 03I Subsurface drainage
- Soakage pit to MITS 08C Rubber impact attenuating surface
- Solid uPVC SW pipe including connections to existing drainage structures: to MITS 03B Pipe drainage
- Electrical conduits and wiring: to this Specification
- Electrical meter and meter pit: to this Specification
- Water meter and meter pit: To MITS 03E Water Supply Reticulation
- Disconnection / Re-connection to Mains Electrical Supply: to this Specification
- Disconnection / Re-connection to Mains Water Supply: To MITS 03E Water Supply Reticulation
- Water pipe: To MITS 03E Water Supply Reticulation
## 2.2 Pay items

**Table 8D-3 Pay items table**

<table>
<thead>
<tr>
<th>Item No</th>
<th>Pay Item</th>
<th>Unit of measurement</th>
<th>Schedule of rates scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>8D.1</td>
<td>Decomposed Granite Gravel</td>
<td>m²</td>
<td>All activities associated with the supply, detailed excavation, removal of material and compaction of base and decomposed granite gravel layers, complete with stabiliser. A separate pay item shall be included in the contract for each pavement design.</td>
</tr>
<tr>
<td>8D.2</td>
<td>Proprietary Furniture and Fixtures</td>
<td>Item</td>
<td>All activities associated with supply and installation of proprietary Furniture and Fixtures. A separate pay item shall be included in the Contract for each proprietary furniture and fixture element.</td>
</tr>
<tr>
<td>8D.3</td>
<td>Installation and connection of Power Supply cable by Evoenergy</td>
<td>Provisional Sum</td>
<td>All activities associated with the supply and installation of electrical cable, connection to existing infrastructure and the new POE and commissioning of the cable. The pay item shall also allow for liaison with Evoenergy and include all fees payable. All works are to be undertaken by Evoenergy.</td>
</tr>
<tr>
<td>8D.4</td>
<td>Installation and connection of Power Supply cable by Licensed electrician</td>
<td>Item</td>
<td>All activities associated with the supply and installation of electrical cable, connection to POE and connection to the new proprietary furniture including commissioning of the cabling. All works are to be undertaken by a licensed electrician.</td>
</tr>
<tr>
<td>8D.5</td>
<td>Building Approval for shade sails</td>
<td>Provisional Sum</td>
<td>All activities associated with the engagement of a licensed building certifier, including approvals and inspections.</td>
</tr>
</tbody>
</table>
ANNEXURE A - SCHEDULES

The following schedule shall be completed by the Designer for each furniture and fixture item:

| Furniture and Fixture proprietary items (i.e. Bins/ Seats/ Benches/ Tables/ Tree Grates and Guards/ Bollards/ Bike racks/ Drinking Fountain/ BBQ etc) |
| Description |
| Product Code / Model Number |
| Dimensions |
| Supplier Name and Details |
| Material |
| Finish |
| Colour |
| Fixing / Mounting |
| Shade Sail Material |
| Shade Sail Colour |
| Shade Post Colour |