

SUPERSEDED

Specification (Measurement)

MRS56 Construction Surveying

March 2021

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1 Introduction

This Specification applies to construction surveying for earthworks, road pavements, underground assets and bridges and structures during civil construction works.

The requirements for this Specification apply to all construction surveying operations under the Contract.

This Specification shall be read in conjunction with MRS01 *Introduction to Specifications* and other Specifications as appropriate.

This Specification forms part of the Transport and Main Roads Specifications Manual.

2 Measurement of work

2.1 Standard Work Items

In accordance with the provisions of Clause 2.1.3 of MRS01 *Introduction to Specifications*, the Standard Work Items incorporated in this Specification are listed in Table 2.1.

Table 2.1 – Standard Work Items

| Standard Item No. | Description | Unit of Measurement |
|-------------------|---------------------------|---------------------|
| 21403 | Supply survey information | lump sum |

Supply survey information includes the Survey Control Register and any new Form 6's, As Constructed Survey for earthworks, pavement, pavement drains, kerbs, kerbs and channel, road furniture, drainage, subsurface footings, conduits and pits, retaining walls (above ground), noise fences, horizontal directional drilling, micro tunnelling and thrust and auger boring, bridges, survey of Existing Underground Assets undertaken by the Principal Contractor and As Constructed Survey(s) undertaken by utilities and other third parties of new underground assets.

2.2 Work Operations

Item 21403 Supply survey information

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of the Survey Control Register
- c) supply of any Form 6's of any new Permanent Marks that may have been installed
- d) As Constructed Survey of stripped areas
- e) As Constructed Survey of excavated areas
- f) As Constructed Survey of excavated unsuitable material areas
- g) As Constructed Survey of end areas
- h) As Constructed Survey of embankments
- i) As Constructed Survey of subgrade

- j) As Constructed Survey of excavated areas for channels and drains
- k) As Constructed Survey of each pavement layer (subbase, base, surface)
- l) As Constructed Survey of kerbs, channel and kerb and channel
- m) As Constructed Survey of footpaths including pram crossings
- n) As Constructed Survey of pavement drains
- o) As Constructed Survey of road safety barriers / guard rails / wire rope barriers
- p) As Constructed Survey of road signs and variable message signs
- q) As Constructed Survey of fences / gates
- r) As Constructed Survey of field cabinets
- s) As Constructed Survey of road light poles / traffic signal poles / electricity poles
- t) As Constructed Survey of overhead wires
- u) As Constructed Survey of drainage systems, culverts, gullies and access chambers
- v) As Constructed Survey of subsoil drains and vertical drains
- w) As Constructed Survey of concrete retaining wall pad / strip footings
- x) As Constructed Survey of ancillary pile footings
- y) As Constructed Survey of noise fence pile / spread footings
- z) As Constructed Survey of depth of traffic signal footings / road lighting post footings
- aa) As Constructed Survey of traffic signal post footings / traffic signal mast arm footings / road lighting pole footings
- bb) As Constructed Survey of load bearing footings
- cc) As Constructed Survey of concrete masonry / crib wall footings
- dd) As Constructed Survey of conduits and pits
- ee) As Constructed Survey of concrete / crib / bolder / reinforced soil structure retaining walls
- ff) As Constructed Survey of soil nails / active rock bolts / passive rock dowels
- gg) As Constructed Survey of Noise fences
- hh) As Constructed Survey of Horizontal Directional Drilling / Micro Tunnelling and Pipe Jacking / Thrust and Auger Boring
- ii) As Constructed Survey undertaken by utilities and other third parties of new underground assets for works requested to facilitate the project
- jj) As Constructed Survey of piles
- kk) As Constructed Survey of pile caps
- ll) As Constructed Survey of columns
- mm) As Constructed Survey of abutments
- nn) As Constructed Survey of headstocks

- oo) As Constructed Survey of coreholes
- pp) As Constructed Survey of bearing pedestals / plinths
- qq) As Constructed Survey of girders / deck units
- rr) As Constructed Survey of kerbs and parapets
- ss) As Constructed Survey of relieving slabs
- tt) survey of existing underground assets, and
- uu) survey information of any other assets as directed by the Principal.

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