

This is Document “Schedule 7 Part 8” referred to in this Contract

SCOTTISH MINISTERS’ REQUIREMENTS

SCHEDULE 7 PART 8

STRUCTURES WITH PARTICULAR REQUIREMENTS

CONTENTS

	Page No
1	1
STRUCTURES WITH PARTICULAR REQUIREMENTS	
1.1 General	1
ANNEX 7.8/A – STRUCTURES WITH PARTICULAR REQUIREMENTS	3
ANNEX 7.8/B – MAINTENANCE MANUALS AND OPERATION MANUALS STRUCTURES WITH PARTICULAR REQUIREMENTS	9
<i>(No Bridge Manuals provided in the A5 Version)</i>	

This page is blank

SCOTTISH MINISTERS' REQUIREMENTS

SCHEDULE 7 PART 8

STRUCTURES WITH PARTICULAR REQUIREMENTS

1 STRUCTURES WITH PARTICULAR REQUIREMENTS

1.1 General

- 1.1.1 In addition to the requirements of Part 7 of this Schedule 7 the Operating Company shall inspect manage and maintain the Structures with particular requirements listed in Annex 7.8/A of this Part 8 of this Schedule 7 including but not limited to
- (i) inspections
 - (ii) monitoring
 - (iii) testing
 - (iv) maintenance and
 - (v) Operations
- in accordance with the maintenance manuals and Operations manuals and requirements in Annex 7.8/B of this Part 8 of this Schedule 7.
- 1.1.2 Where Special Inspections are required as defined in paragraph 3.2.5 of Part 7 of this Schedule 7 they shall be subject to an Order.
- 1.1.3 The requirements of paragraph 1.1.1 of this Part 8 of this Schedule 7 also apply to Access Systems as referred to in paragraphs 8.1.1 to 8.1.11 of Part 7 of this Schedule 7 where the Access Systems are associated with Structures with particular requirements.

This page is blank

SCOTTISH MINISTERS' REQUIREMENTS

SCHEDULE 7 PART 8

STRUCTURES WITH PARTICULAR REQUIREMENTS

ANNEX 7.8/A – Structures with Particular Requirements

This page is blank

SCOTTISH MINISTERS' REQUIREMENTS

SCHEDULE 7 PART 8

STRUCTURES WITH PARTICULAR REQUIREMENTS

ANNEX 7.8/A – Structures with Particular Requirements

1. STRUCTURES WITH PARTICULAR REQUIREMENTS

1.1. List of Structures with Particular Requirements

1.1.1. Structures listed below in Table 1.1.1.A are Trunk Road Structures which require particular attention with regard to their

- (i) inspections
- (ii) monitoring
- (iii) testing
- (iv) maintenance and
- (v) Operations.

Structure Reference Number	Structure Name
A898 100	Erskine Bridge
KINGSTON BRIDGE COMPLEX (With associated elevated approach Structures and on/off ramps.)	
M8 19-19 10	M8 Main Approach North E/B
M8-19 20	M8 Main Approach North W/B
M8S 19-19 30	Stobcross St On Ramp
M8S 19-19 40	Stobcross St Off Ramp
M8S 19-19 50	Waterloo St On Ramp
M8S 19-19 60	Bothwell St Off Ramp
M8S 19-19 70	North St Off Ramp
M8S 19-19 80	Newton St On Ramp
M8 19-20 50	Kingston Bridge
M8 20-20 10	M8 Main Approach South E/B
M8 20-20 20	M8 Main Approach South W/B
M8S 20-20 30	West St Off Ramp
M8S 20-20 40	West St On Ramp

Schedule 7 Part 8 Table 1.1.1.A – List of Trunk Road Structures

1.2. Requirements for Erskine Bridge

1.2.1. The Operating Company shall carry out

- (i) inspections
- (ii) monitoring
- (iii) testing
- (iv) maintenance and
- (v) Operations

of Erskine Bridge in accordance with paragraph 1.1.1 of this Part 8 of this Schedule 7 and as added to and amended by the bridge maintenance and Operations manuals.

1.3. Requirements for Kingston Bridge Complex

1.3.1. The Operating Company shall carry out

- (i) inspections
- (ii) monitoring
- (iii) testing
- (iv) maintenance and
- (v) Operations

of Kingston Bridge Complex in accordance with paragraph 1.1.1 of this Part 8 of this Schedule 7 and as added to and amended by the maintenance and Operations manuals.

1.3.2. The Kingston Bridge Complex comprises the Structures listed in Table 1.1.1.A of this Annex 7.8/A of this Part 8 of this Schedule 7 under the Kingston Bridge Complex.

These Structures include the main bridge Structure over the River Clyde and 4.5 kilometres of elevated approach Structures and the access and egress ramps.

The Kingston Bridge Complex extends from co-ordinates 258008E 665411N on the M8 at the north end to co-ordinates 257929E 664460N on the M8 at the south end.

The location of the individual Structures shall be shown on the plan contained in the Annex of this Part 8 of this Schedule 7.

1.3.3. The Kingston Bridge Complex has undergone a major programme of

- (i) inspections
- (ii) assessment and
- (iii) strengthening

under the management of the Glasgow City Council Kingston Bridge Project Team.

The final contract in the programme shall be the Stobcross On Ramp Refurbishment and Associated Works which commenced in January 2005 and is programmed to be complete by December 2005.

During the period until the maintenance certificate for the Stobcross On Ramp Refurbishment and Associated Works contract shall be signed the Operating Company shall

- (i) permit Glasgow City Council as client and engineer and Graham Construction (Dromore) Limited as contractor under the Stobcross On Ramp Refurbishment and Associated Works contract to carry out their duties and
- (ii) allow access to the ramp to allow inspection and maintenance works to be carried out.

A further one kilometre of cope and parapet on the Kingston Bridge Complex is still to be refurbished as part of a commitment to upgrade all sections of sub-standard cope and parapet on the Kingston Bridge Complex.

These works shall be prioritised along with other bridgeworks on the network.

The Operating Company shall carry out class 1 inspections as referred to in BA/79 of the DMRB at 3 monthly intervals of the un-refurbished precast cladding cope and parapet on this 1km section.

The timing of the inspections shall be programmed to ensure continuity with the current programme.

- 1.3.4. The Operating Company shall carry out class 1 inspections as referred to in BA/79 of the DMRB at 3 monthly intervals of the 96 half-joints left on the Kingston Bridge Complex.

The timing of the inspections shall be programmed to ensure continuity with the current programme.

- 1.3.5. The Operating Company shall carry out class 1 inspection as referred to in BA/79 of the DMRB at 12 monthly intervals of the precast cladding (spandrel and arch units) on the main Kingston Bridge.

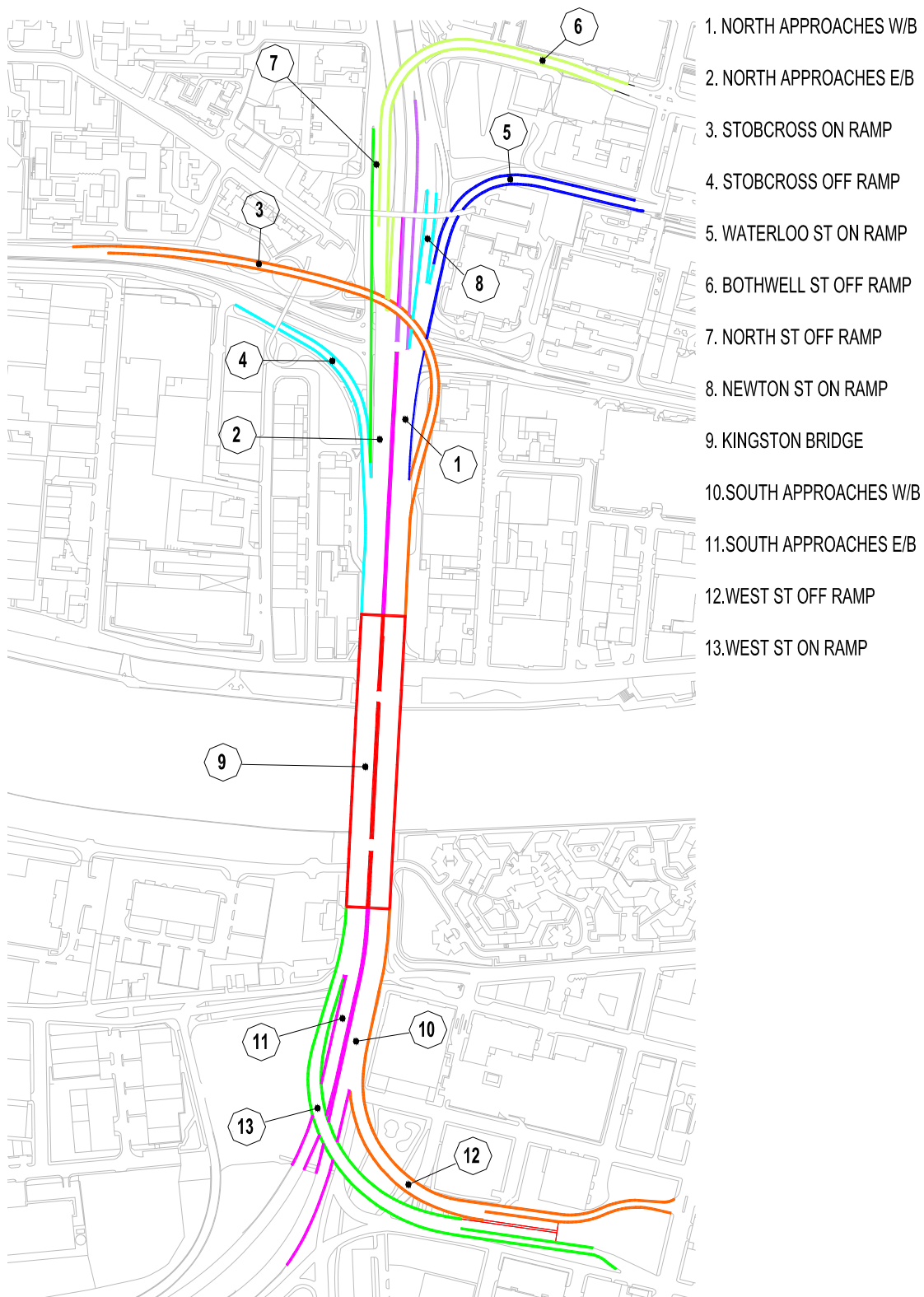
The timing of the inspections shall be programmed to ensure continuity with the current programme.

- 1.3.6. Subject to an Order the Operating Company shall be responsible for ensuring the continued operation and management of the existing environmental electronic monitoring system within the Kingston Bridge including data collection and reporting.

Subject to an Order the Operating Company shall be responsible for ensuring the continued operation of the half joint monitoring and reporting system for the linear variable displacement transducers on the north and south approaches and ramps during the First Second and Third Annual Periods in order to finalise the investigations into the articulation of the elements of the Structure.

There are 31 linear variable displacement transducers on the south approaches and 38 linear variable displacement transducers on the north approaches.

Maintenance of the linear variable displacement transducers shall require access platforms and the closure of surface streets. The linear variable displacement transducers on the Bothwell Street off ramp shall require access through the private car park of the Abbey Building Society.



KINGSTON BRIDGE COMPLEX

SCOTTISH MINISTERS' REQUIREMENTS

SCHEDULE 7 PART 8

STRUCTURES WITH PARTICULAR REQUIREMENTS

**ANNEX 7.8/B – Maintenance Manuals and Operation Manuals Structures with
Particular Requirements**

This page is blank

SCOTTISH MINISTERS' REQUIREMENTS

SCHEDULE 7 PART 8

STRUCTURES WITH PARTICULAR REQUIREMENTS

ANNEX 7.8/B – Maintenance Manuals and Operation Manuals for Structures with Special Requirements

M8 Kingston Bridge
Strengthening Phase 1 (1996 - 2001) Design and Construction Records
Volume 1 of 6 - General Description of the Works including Maintenance and Health and Safety Information -
Volume 2 of 6 - Structural Maintenance information Sections 1 - 4
Volume 3 of 6 - Structural Maintenance information Sections 5 - 11
Volume 4 of 6 - Health and Safety File information Sections 1 - 3
Volume 5 of 6 - Health and Safety File information Sections 4 - 7
Volume 6 of 6 - Health and Safety information Sections 8 - 11
Stobcross On Ramp Replacement and Associated Works Documents
Stobcross Off-Ramp Replacement Health & Safety File
As Built Records Volume 1 - Design and Construction Report
As Built Records Volume 2 - Maintenance Manual
Monitoring System
Technical Manual
AiRanger SPL Instruction Manual
Datascan Installation and User Guide
Vaisala Humidity and Temperature Transmitters Technical Data
Heraeus Platinum Resistant Temperature Probe Datasheet
Silicon Cell Pyranometer Manual
RDP Spring Return Transducer Datasheet
Main Server Hardware Specifications
APC Smart UPS Uninterruptible Power Supply 230 VAC Users Manual
DC Spring Return Displacement Transducers Datasheet

A898/M898 Erskine Bridge
Maintenance Manuals
Volume 1
Volume 2
Volume 3
Erskine Bridge Underdeck Side Gentries - Maintenance Manual
Erskine Bridge Underdeck Side Gentries - Operating Manual
Document Bundle D - Statutory Undertakers Equipment
Document Bundle E - Electrical Equipment
Document Bundle G Tower Cradle Operation and Maintenance Manuals
Operations Manual
Erskine Bridge Operations Manual
Safety Manual
Erskine Bridge Safety Manual