

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT**

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## **SCOTTISH MINISTERS' REQUIREMENTS**

### **SCHEDULE 2 PART 1**

#### **METHOD OF MEASUREMENT**

##### **CHAPTER I**

###### **Definitions**

Definitions given in Volume 4 Section 1 Chapter I of the *Manual of Contract Documents for Highway Works* hereby apply unless amended otherwise and as stated below.

Delete all references to "Bill of Quantities" and replace with "Schedule of Rates and Prices".

Delete all references to "Contractor" and replace with "Operating Company".

Delete sub paragraph 1(c) and insert the following sub paragraph 1(c):

1(c) "Schedule of Rates and Prices" means a list of items giving brief identifying descriptions.

Quantity Band means a quantity measurement range associated with a particular item. Quantity Bands appended with "+" indicate the stated Quantity Band value or greater.

## **SCOTTISH MINISTERS' REQUIREMENTS**

### **SCHEDULE 2 PART 1**

#### **METHOD OF MEASUREMENT**

#### **CHAPTER II**

##### **General Principles**

General Principles given in Volume 4 Section 1 Chapter II of the *Manual of Contract Documents for Highway Works* hereby apply except as stated below.

Delete all references to "Bill of Quantities" and replace with "Schedule of Rates and Prices".

Delete all references to "Contractor" and replace with "Operating Company".



## SCOTTISH MINISTERS' REQUIREMENTS

### SCHEDULE 2 PART 1

#### METHOD OF MEASUREMENT

#### CHAPTER III

##### Preparation of Schedule of Rates and Prices

Preparation of Schedule of Rates and Prices shall be in accordance with Preparation of Bills of Quantities given in Volume 4 Section 1 Chapter III of the *Manual of Contract Documents for Highway Works* unless amended otherwise and as stated below.

Delete all references to "Bill of Quantities" and replace with "Schedule of Rates and Prices".

Delete all references to "Contractor" and replace with "Operating Company".

##### Preambles to Schedule of Rates and Prices

Delete preambles set down in Volume 4 Section 1 Chapter III of the Manual of Contract Documents for Highway Works and replace with the following:

- General Directions
- 1 The Schedule of Rates and Prices has been prepared generally in accordance with the principles used in the *Method of Measurement for Highway Works published by The Stationery Office as Section 1 of Volume 4 of the Manual of Contract Documents for Highway Works* as amended by this Part of this Schedule.  
  
The relevant publication date of each page of the *Method of Measurement for Highways Works* is given in the Schedule of Pages and Relevant Publication Dates.
  - 2 In the Schedule of Rates and Prices the sub-headings and item descriptions identify the work covered by the respective items, read in conjunction with the matters listed against the relevant marginal headings "Item coverage" in Chapter IV of the *Method of Measurement for Highway Works*, these Preambles and the amendments to the Method of Measurement immediately following these Preambles. The nature and extent of the work and, where relevant, its frequency of execution, is to be ascertained or assessed by reference to the Scottish Ministers' Requirements and the Conditions of Contract. The rates and prices entered in the Schedule of Rates and Prices shall be deemed to be the full inclusive value of the work covered by the several items including the following, unless expressly stated otherwise:
    - (i) Labour and costs in connection therewith.
    - (ii) The supply of materials, goods, storage and costs in connection therewith including delivery to anywhere within the Unit, taking delivery of materials and goods supplied by others, unloading, storage, and costs in connection therewith.
    - (iii) Plant and costs in connection therewith.
    - (iv) Fixing, erecting and installing or placing of materials and goods in position.

- (v) Temporary work including Design of temporary work.
- (vi) The effect on the phasing of the Operations or any element of the Operations to the extent set forth or reasonably implied.
- (vii) General obligations, liabilities and risks involved in the execution of the Operations set forth or reasonably implied in the documents on which the Final Tender Submission is based.
- (viii) Establishment charges including temporary accommodation at individual Sites and all accommodation, depots, stores and other similar facilities required by the Operating Company for the duration of this Contract, overheads and profit.
- (ix) Waste.
- (x) Testing and measuring in accordance with this Contract including supplying results of tests and measurements including providing test certificates.
- (xi) Attendance and transport for sampling and testing carried out by the Overseeing Organisation.
- (xii) Checking, inspecting, examining, measuring and verifying goods, materials and workmanship including supplying results, reports and certificates.
- (xiii) Traffic safety and traffic management measures as required by this Contract.
- (xiv) All travelling connected with Operations.
- (xv) Complying with the quality management requirements of this Contract and providing Certificates of conformity.
- (xvi) Providing land for Plant, stores, working space, borrow pits or spoil dumps required.
- (xvii) Communication system.
- (xviii) Insurance provision.
- (xix) All obligations activities duties and responsibilities of the Operating Company set out in this Contract commencing at the end of the final Annual Period until such time as such obligations activities duties and responsibilities have been executed by the Operating Company.
- (xx) Vehicles, communication system and operatives for the Overseeing Organisation.
- (xxi) Consultation approvals consents and any other thing required from to or with the Operational Partners to obtain access and method of working for rebuilding including but not limited to Historic Scotland to enable timescales for rebuilding to be achieved.
- (xxii) Information signs and or boards on all Sites.
- (xxiii) Access provision maintenance and removal including design of accesses.

		(xxiv) Temporary diversion of traffic.
Mobilisation	3	Items for mobilisation are contained within Series 100 Preliminaries sub series 02 for items associated with Commencement of Service Date 1 and sub series 03 for items associated with Commencement of Service Date 2.
Measurement	4	<p>The measurement of quantity against each item shall be computed from the dimensions stated in the Design or physically measured in the absence of such dimensions unless stated otherwise in the Method of Measurement.</p> <p>The measurement of quantity against each item shall be computed net to the nearest whole number, except for:</p> <ol style="list-style-type: none"> <li>1. measurement of tonnage, hectares and kilometres in which cases the quantities shall be to three decimal places,</li> <li>2. measurement of hours for which the quantity shall be to the nearest quarter hour,</li> <li>3. measurement of mobilisation items which shall be a % of the item sum to the nearest whole percentage point,</li> <li>4. measurement of months shall be to the nearest whole percentage point.</li> </ol> <p>The Schedule of Rates and Prices contains adjustment items.</p> <p>The purpose of the adjustment item is to vary the content of the original item to which the adjustment applies.</p> <p>Separate item coverage has not been included in the amendments to the method of measurement for adjustment items.</p> <p>Where adjustment items have been included in the Schedule of Rates and Prices they shall be deemed to include the same features and item coverage of the original Schedule of Rates and Prices item to which they apply.</p>
Pricing of Items	5	<p>Rates and prices are expressed to two decimal places.</p> <p>For items where the rate is '%', a percentage value is expressed and not a decimal equivalent. For example, five percent is expressed as '5' and not '0.05'.</p> <p>Where a percentage value is entered as 0% or is negative any costs and associated charges will be deemed to be included in the other rates and prices.</p>
Schedule of Rates and Prices	6	<p>Where provision has been made in the Schedule of Rates and Prices for items of work to be measured and paid for in various quantity bands the measurement and payment of such items for each individual Scheme shall be made using only the rate entered under the appropriate quantity band.</p> <p>The quantity band used shall be that obtained by the summation of the final quantities of like work within a Scheme unless a Scheme covers more than one Site and the distance between discrete Sites within the Scheme exceeds the minimum distances between traffic management measures as detailed in Table 3.3 of Chapter 8 of the <i>Traffic Signs Manual</i> in which case the quantity band used shall be that obtained by the</p>

		summation of the quantities of like work at each discrete Site within the Scheme.
Alternative Specified Materials, Designs and Options Within Types of Pavement	7	<p>Where a choice of alternatives is permitted in this Contract, the item description and the rates and prices inserted shall be deemed to include any of the permitted alternative materials or designs the Operating Company may elect to use.</p> <p>In all cases the rates and prices inserted in all Series of the Schedule of Rates and Prices shall be deemed to include for any adjustments of work content, rates, costs, programming, method of working and other effect occasioned by the choice of alternatives elected to be used or constructed by the Operating Company.</p>
Privately and Publicly Owned Services or Supplies	8	<p>The Operating Company shall allow in the rates and prices for locating, marking and taking measures for the support and full protection of pipes, cables and other apparatus.</p> <p>The rates and prices shall include for obtaining the written consent and anything else required of, from, to or with the Relevant Organisation to interrupt the service or supply and for keeping the Scottish Ministers informed in writing of all arrangements it makes with owners of privately owned services or supplies, Undertakers and Statutory Authority and other parties as appropriate.</p>
Labours	9	<p>Labours in connection with Nominated Sub-contractors shall include but not be limited to:</p> <p>(i) in the case of Operations – for affording the use of existing working space, access, temporary roads, erected scaffolding, working shelters, staging, ladders, hoists, storage, latrines, messing, welfare and all other facilities existing on the Unit and the provision of protection, water, electricity for lighting and clearing away rubbish, debris and waste and other similar material arising from the Operations,</p> <p>(ii) in the case of goods, materials or service supplied – for taking delivery, unloading, storing, protecting and returning crates, cartons and packing materials.</p>
Location, Frequency and timescales of Schedule items	10	<p>The Operating Company shall allow in the rates and prices for carrying out the Operations at any location within or associated with the Unit, and shall also allow for the items in the Schedule of Rates and Prices being used only once, a number of times or not at all during this Contract.</p> <p>The Operating Company shall allow in the rates and prices for undertaking any Operations within the timescales prescribed in this Contract and or any Order.</p>
Roadworks Overall Requirements	11	<p>The Operating Company shall allow in the rates and prices for complying with requirements in respect of pavement construction, horizontal alignments, surface levels and surface regularity of pavement courses, cold weather working, use of surfaces by traffic and Plant and general requirements for sub-bases and road bases.</p>

Work Within and Below Non-Tidal Open Water or Tidal Water	12	<p>The Operating Company shall allow in the rates and prices for taking measures to execute all Operations above non tidal open water and above mean high water springs.</p> <p>All Operations executed within and below non tidal open water or between mean high water springs and mean low water springs or below mean low water springs are subject to adjustment in accordance with Series 6400.</p> <p>The datum for measurement of Operations executed within and below non tidal open water shall be stated in the Order.</p> <p>The mean high water springs and mean low water springs are equivalent levels relative to chart datum determined by the United Kingdom Hydrographic Office.</p>
Dealing with Flow	13	The Operating Company shall allow in the rates and prices for taking measures to deal with the existing flow of water, sewage and other flowing material.
Taxes Levies Contributions Premiums Refunds or Landfill Tax	14	The Operating Company shall allow in the rates and prices for all taxes, levies, contributions, premiums, refunds or landfill tax as described in Schedule 1, ct.
Site Limitations and Constraints	15	The Operating Company shall allow in the rates and prices for complying with any limitations and constraints on the use of or connected with the Unit.
Hard Material	16	<p>For the purposes of this Contract the following are designated as Hard Material in accordance with Chapter 1 of the <i>Method of Measurement for Highway Works</i> Definitions, paragraph 1(h):</p> <ul style="list-style-type: none"> <li>(i) material which requires the use of blasting, breakers or splitters for the removal but excluding individual masses less than 0.20 cubic metres,</li> <li>(ii) existing pavements, footways, paved areas (but excluding unbound materials) and foundations in masses in excess of 0.20 cubic metres.</li> </ul>
Equivalent Products and Materials	17	<p>Where the Operating Company offers an equivalent product or material in place of the one identified or specified, which is accepted for incorporation into the Operations by the Scottish Ministers, then the rates and prices are deemed to include for all the obligations and costs associated with the incorporation of the equivalent into the Operations, including but not limited to Design, provision of data and Drawings, Certificates, awaiting approvals consents and other similar considerations, re-submissions and modifications and amendments to the Operations.</p> <p>Unless specifically stated to the contrary in this Contract the measurement of the Operations affected by the incorporation of the equivalent products and materials shall be based on this Contract and not on the Operations as amended and completed to incorporate the equivalent products and materials.</p>
Management of Operations	18	The Operating Company shall allow in the rates and prices for the supervision by the Operating Company of Operations.

Repair Work and Alterations	19	<p>Various elements of the Schedule of Rates and Prices identify work of repair and or alteration.</p> <p>Notwithstanding such separately identified items the Operating Company shall allow in the rates and prices for executing any of the other items in the Schedule of Rates and Prices as repairs and or alterations to existing.</p>
Time Bands and Percentage Adjustments	20	<p>The Operating Company shall allow in the rates and prices in the Schedule of Rates and Prices for executing Operations during Normal Working Hours (time band reference 1), except for items in Series 6100 to 6700 (inclusive) and Series 7000 which are all deemed to be undertaken at any time and shall not be subject to any time band adjustments.</p> <p>Percentage adjustments do not apply to Operations undertaken in time band reference 1.</p> <p>Operations that are executed within Normal Working Hours but subject to working hours restrictions as referred to in the Specification shall be deemed to be in time band reference 1 and therefore are not subject to adjustment.</p> <p>Percentage adjustments shall be made to the rates and prices in the Schedules of Rates and Prices in respect of Operations executed outwith Normal Working Hours when the hours of working are subject to restrictions for the routes and locations referred to in Schedule 9 Part 2, Appendix 1/17.</p> <p>Notwithstanding the previous paragraph, Operations executed outwith Normal Working Hours shall only be measured if restrictions stated in Schedule 9 Part 2, Appendix 1/17 prohibit the Operations from being carried out within Normal Working Hours, or if the Director has given written consent that the Operations may be measured using the appropriate time band adjustments.</p> <p>For routes and locations where no working hours restrictions apply, Operations executed outwith Normal Working Hours shall not be subject to time band adjustments unless the Director has given written consent.</p>
Other Work on the Unit, the Police and Emergency Services	21	<p>The Operating Company shall allow in the rates and prices for the presence from time to time of authorised contractors and bodies and other third parties executing work on the Unit.</p> <p>Emergency Services require access through the Unit at all times and the Operating Company shall allow in the rates and prices for complying with this requirement.</p>
Traffic Safety and Traffic Management	22	<p>The Operating Company shall allow in the rates and prices for traffic safety and traffic management to undertake the Operations.</p> <p>The rates and prices shall include the Design, provision, maintenance and removal of and any costs related to traffic safety and traffic management measures referred to in Schedule 9 of this Contract and the following:</p> <ul style="list-style-type: none"> <li>(i) phasing the Operations in a manner acceptable to the Director, the Traffic Scotland Service and the police for the continuing flow of traffic including maintaining access to properties,</li> </ul>

		<ul style="list-style-type: none"> <li>(ii) complying with the requirements of the '<i>Traffic Signs Regulations and General Directions</i>' and with the recommendations contained in Chapter 8 of the <i>Traffic Signs Manual</i> or where the circumstances of any particular case are not covered, including but not limited to any additional traffic safety and traffic management measures required by the police, submitting proposals for dealing with such situations including but not limited to risk assessments and other similar reports information and advice to the Director,</li> <li>(iii) enhancement of the requirements of Chapter 8 of the <i>Traffic Signs Manual</i> as deemed necessary by the Operating Company to satisfy specific Site safety risk assessments,</li> <li>(iv) continuing traffic safety and management outside the boundaries of the Unit when associated with Operations on the Unit and including all necessary liaison with relevant authorities and other third parties,</li> <li>(v) requirements to deal with reduced Lane widths due to any reason including but not limited to convoy working,</li> <li>(vi) alterations to traffic management measures or programmes to take account of events on or outwith the Unit that prevent or constrain the use of traffic management or planned Operations.</li> </ul>
Measuring, Sampling and Testing	23	The Operating Company shall allow in the rates and prices for measuring, sampling and testing as required by this Contract.
Payments to Undertakers	24	<p>The Operating Company may be required to place orders with Undertakers, holders of licences issued in accordance with Section 109 of the <i>New Roads and Street Works Act 1991</i>, franchise holders, and other similar parties for renewal, maintenance or repair of services on the Unit and the payment for such orders may well be required in advance of the work being undertaken.</p> <p>Such work will be subject to an Order on each occasion but the Operating Company shall allow in the percentage adjustment for all additional cost associated with the payments for such work and the fact that invoices for the Undertakers may not be immediately available.</p> <p>Payment of Undertakers accounts is included in Series 7000.</p>
Disposal	25	The Operating Company shall allow in the rates and prices for disposal to a licensed disposal facility which may include a licensed recycling facility.
Remove from Store	26	The Operating Company shall allow in the rates and prices for remove from store for collecting from stores on or off the Site or from where material has been set aside for re-use.
Contract Price Fluctuations	27	The Operating Company shall allow in the rates and prices for all costs in respect of Contract Price Fluctuation that are not covered by the provisions of Schedule 1 for Contract Price Fluctuations.

Amendment to the Method of Measurement	28	<p>For the purpose of this Contract the <i>Method of Measurement for Highway Works</i> is amended:</p> <ul style="list-style-type: none"> <li>(i) by replacing the words "Bills of Quantities" wherever they occur with the words "Schedule of Rates and Prices",</li> <li>(ii) by replacing the word "Contractor" wherever it occurs with the words "Operating Company",</li> <li>(iii) by construing any reference to "rates", "prices", "Rates", "Prices", "rates and prices" or "Rates and Prices" to mean a reference to rates and prices contained in the Schedule of Rates and Prices,</li> <li>(iv) by replacing the full stop to the last item in item coverages with a semi-colon in every case where additional items have been added, and</li> <li>(v) in accordance with the pages immediately following.</li> </ul>
Classification of Operations associated with Repair of Damage to Crown Property, incidents, and Repair of Category 1 Defects	29	<p>Operations associated with incidents, Repair of Category 1 Defects and Damage to Crown Property will be classified in accordance with the following protocol (refer also to Annex 6 of Schedule 1).</p> <ul style="list-style-type: none"> <li>(i) Repair of Damage to Crown Property including any associated Incident Response Operations will be classified in accordance with paragraph 30.</li> <li>(ii) Incident Response Operations will be classified in accordance with paragraph 31 where the incident is not associated with Damage to Crown Property.</li> <li>(iii) Where a Category 1 Defect exists following execution of Incident Response Operations that is not related to Damage to Crown Property repair will be classified in accordance with paragraph 32.</li> </ul>
Repair of Damage to Crown Property	30	<p>Repair of Damage to Crown Property will be classified as either "of value of repairs not more than £50,000" or "of value of repairs more than £50,000". The classification shall be established using applicable items contained within the following Series contained within Schedule 2 Part 2:</p> <ul style="list-style-type: none"> <li>(i) Series 100 to 5000 inclusive,</li> <li>(ii) Series 6400, 6500 and Series 6800.</li> </ul> <p>Series 6500 items shall only be used for classification when there are no applicable items in any of the other Series.</p> <p>The classification shall include:</p> <ul style="list-style-type: none"> <li>(i) initial, secondary, and back-up Incident Response Operations excluding traffic management measures,</li> <li>(ii) temporary repairs and temporary safety measures to allow safety and usability to be restored,</li> </ul>



(iii) betterment.

The classification shall exclude:

- (i) travel to and from the scene of an incident,
- (ii) acting on Orders and or the instructions of the Emergency Services,
- (iii) reporting to the Director details of all Operations carried out and materials used,
- (iv) disruption to other work as a result of attending incidents,
- (v) attending a reported incident related to Damage to Crown Property where no action is required,
- (vi) maintaining temporary repairs until a permanent repair is carried out,
- (vii) police reports,
- (viii) establishing, maintaining and removing traffic management prior to repair Operations,
- (ix) assessments and Design,
- (x) removal of dead animals and objects,
- (xi) cleaning and sweeping of hard areas,
- (xii) recovery of the costs of repair of the damage to Crown Property from the third party which caused the damage.

If an incidence of Damage to Crown Property is classified initially as "of value of repairs more than £50,000" but subsequently has a final classification "of value of repairs not more than £50,000", the Operating Company shall reimburse the Director for any payment received.

Incidences of Damage to Crown Property which are classified "of value of repairs more than £50,000" shall be valued in accordance with the provisions of Schedule 1 Part 3 for valuation of Orders.

#### Incident Response Operations

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Incident Response Operations for individual Incidents shall be classified as "of value not more than £10,000" or "of value more than £10,000". The classification shall be established using applicable items contained within the following Series contained within Schedule 2 Part 2:

- (i) Series 100 to 5000 inclusive,
- (ii) Series 6400, 6500 and Series 6800.

Series 6500 items shall only be used for classification when there are no applicable items in any of the other Series.

The classification shall include:

- (i) initial, secondary, and back-up Incident Response Operations,
- (ii) temporary repairs and temporary safety measures to allow safety and usability to be restored.

The classification shall exclude:

- (i) travel to and from the scene of the Incident,
- (ii) acting on Orders and or the instructions of the Emergency Services,
- (iii) reporting to the Director details of all Operations carried out and materials used,
- (iv) disruption to other work as a result of attending Incidents,
- (v) attending a reported Incident where no action is required,
- (vi) maintaining temporary repairs until a permanent repair is carried out,
- (vii) assessment and Design,
- (viii) removal of dead animals and objects,
- (ix) cleaning and sweeping of hard areas.

If an Incident is classified initially as "of value more than £10,000" but subsequently has a final classification "of value less than or equal to £10,000", the Operating Company shall reimburse the Director for any payment received.

Incidents which are classified "of value more than £10,000" shall be valued in accordance with the provisions of Schedule 1 Part 3 for valuation of Orders.

#### Repairs of Category 1 Defects 32

Repairs of Category 1 Defects shall be classified as "of value of repairs not more than £10,000" or "of value of repairs more than £10,000". The classification shall be established using applicable items contained within the following Series contained within Schedule 2 Part 2:

- (i) Series 100 to 5000 inclusive,
- (ii) Series 6400, 6500 and Series 6800.

Series 6500 items shall only be used for classification when there are no applicable items in any of the other Series.

The classification shall include:

- (i) establishing, maintaining and removing traffic management subsequent to Incident Response Operations and prior to repair Operations,
- (ii) the cost of maintaining temporary repairs,
- (iii) travel to and from the scene of the Category 1 Defect,
- (iv) reporting to the Director details of all Operations carried out and materials used,
- (v) disruption to other work as a result of attending Category 1 Defects,
- (vi) attending a reported Category 1 Defect where no Defect is found,
- (vii) assessment and Design,
- (viii) removal of dead animals and objects,
- (ix) cleaning and sweeping of hard areas.

If a Category 1 Defect is classified initially "of value of repairs more than £10,000" but subsequently has a final classification of "value of repairs less than or equal to £10,000", the Operating Company shall reimburse the Director for any payment received.

Category 1 Defects which are classified as "of value of repairs more than £10,000" shall be valued in accordance with the provisions of Schedule 1 Part 3 for valuation of Orders.

In addition to the standard Series the following additional Series are included:

- 3300 Site Investigations,
- 6100 Core Operations Monthly Sums,
- 6200 Professional Services,
- 6300 Fee Percentages for Design, Procurement and Management,
- 6400 Adjustment to Schedule of Rates and Prices,
- 6500 Time Work Schedule,
- 6600 Not used,
- 6700 Changes in Scope of Operations,
- 6800 Miscellaneous,
- 6900 Not used,
- 7000 Lump Sum Prices.

**Method of Measurement for Highway Works****Schedule of Pages and Relevant Publication Dates**

Chapter/Series	Page Number	Publication Date
Contents	1	November 2004
	2	May 2005
	3	November 2004
	4 to 7 inclusive	May 2005
Chapter I	1 to 3 inclusive	March 1998
Chapter II	1	March 1998
	2	May 2001
Chapter III	1	March 1998
	2	May 2001
	3 to 12 inclusive	May 2004
	13	November 2006
Chapter IV	14 to 16 inclusive	May 2005
	15 to 19 inclusive	November 2006
	1	March 1998
	100 1 to 2 inclusive	March 1998
	3 to 7 inclusive	May 2001
	8	November 2004
	9 to 11 inclusive	May 2001
	12	November 2004
	13 to 15 inclusive	May 2001
	200 1	May 2001
	2 to 3 inclusive	May 2004
	4	May 2001
	300 1 to 5 inclusive	May 2001
	400 1 to 2 and 4 to 8 inclusive	November 2004
500	3	November 2006
	1 to 5 inclusive	May 2001
	6	November 2004
	7 to 13 inclusive	May 2001
	14	May 2005
	15	May 2001
	16 to 17 inclusive	May 2005
	18	May 2001

Chapter/Series	Page Number	Publication Date
	19	November 2003
600	1	May 2002
	2	May 2001
	3	March 1998
	4 to 11 inclusive	November 2004
	12	May 2002
	13 to 14 inclusive	November 2004
	15 to 38 inclusive	May 2001
	N1 to N3 inclusive	May 2002
700	1	May 2001
	2	May 2002
	3	May 2001
	4 to 5 inclusive	May 2002
	6	May 2001
	7 to 9 inclusive	May 2002
	10	May 2001
	11	May 2002
	12 to 13 inclusive	May 2001
	14	May 2002
	15 to 18 inclusive	May 2001
800	Not taken up	
900	Not taken up	
1000	Not taken up	
1100	1	May 2001
	2	November 2004
	3	May 2001
	4 to 5 inclusive	May 2002
	6	May 2001
	7 to 8 inclusive	May 2005
1200	1 to 2 inclusive	May 2001
	3 to 5 inclusive	March 1998
	6 to 11 inclusive	May 2001
1300	1 to 3 inclusive	November 2003
1400	1 to 2 inclusive	May 2001
	3	May 2005

Chapter/Series	Page Number	Publication Date
	4 to 8 inclusive	May 2001
	9	May 2005
1500	1 to 2 inclusive	May 2001
	3	May 2005
	4 to 7 inclusive	February 2003
	8 to 12 inclusive	May 2001
1600	1 to 2 inclusive	March 1998
	3 to 6 inclusive	May 2001
	7	March 1998
	8 to 19 inclusive	May 2001
1700	1	May 2004
	2	May 2001
	3	May 2004
	4 to 11 inclusive	May 2001
1800	1	March 1998
	2 to 5 inclusive	May 2001
1900	1	May 2003
2000	1	May 2002
	2 to 3 inclusive	May 2001
2100	1	March 1998
2200	Not taken up	May 2004
2300	1 to 3 inclusive	March 1998
2400	1 to 3 inclusive	May 2001
	4	March 1998
2500	1 to 2 inclusive	May 2001
2600	Not taken up	
2700	1	May 2001
3000	1 to 15 inclusive	May 2001
5000	1 to 2 inclusive	May 2003

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 100: PRELIMINARIES****Temporary Accommodation**

Delete paragraphs 2 to 6 inclusive.

**Vehicles for the Overseeing Organisation**

Delete paragraphs 7 to 10 inclusive.

**Communication System for the Overseeing Organisation**

Delete paragraphs 11 to 13 inclusive.

**Operatives for the Overseeing Organisation**

Delete paragraphs 14 to 17 inclusive.

**Information Boards**

Delete paragraphs 18 to 20 inclusive.

**Traffic Safety and Management**

Delete paragraphs 21 to 27 inclusive.

**Temporary Diversion of Traffic**

Delete paragraphs 28 to 33 inclusive.

**Recovery Vehicles**

Delete paragraph 34 to 39 inclusive and insert the following paragraphs 34 to 37 inclusive:

Recovery Vehicles						
Units	34	The unit of measurement shall be:  (i) recovery vehicle .....day.				
Measurement	35	The measurement of recovery vehicles shall be for each day or part thereof during which the recovery vehicle is provided.  Recovery vehicles are deemed to be Site based and not subject to a standby facility.				
Itemisation	36	Separate items shall be provided for recovery vehicles in accordance with Chapter II paragraphs 3 and 4 and the following: <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Each type of recovery vehicle.</td></tr></table>	Group	Feature	I	1 Each type of recovery vehicle.
Group	Feature					
I	1 Each type of recovery vehicle.					
Recovery Vehicles	37	The items for recovery vehicles shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:				

Item coverage	(a)	equipment including communications equipment and identification sign,
	(b)	all taxes levies licensing certification and other similar requirements for operating on the public road or highway,
	(c)	comprehensive insurance,
	(d)	replacement vehicle including equipment,
	(e)	depreciation,
	(f)	maintenance,
	(g)	fuel, oil and consumables,
	(h)	qualified operator and safety officer and provision of documents,
	(i)	completion and submission of information log sheets and record sheets,
	(j)	vehicle inspections and submission of certificates,
	(k)	dealing with shed loads, broken down, accident damaged or abandoned vehicles and removal,
	(l)	explanatory leaflets and distribution,
	(m)	liaising with police,
	(n)	hardstandings, accommodation and servicing,
	(o)	locations and facilities for vehicle removal,
	(p)	removal of all plant, equipment, hardstandings, accommodation and locations and facilities for vehicle removal,
	(q)	vehicle inspection and report,
	(r)	lighting board,
	(s)	reinstatement.

After paragraph 55 add the following paragraphs 56 to 59 inclusive:

### **Mobilisation**

Units	56	The unit of measurement shall be: (i) mobilisation activity.....item.
Measurement	57	<p>The maximum payment that may be made for mobilisation activities during Mobilisation Period 1 prior to the Commencement of Service Date 1 is £750,000 or 50% of the mobilisation total, whichever is lower.</p> <p>The maximum payment that may be made for mobilisation activities during Mobilisation Period 2 prior to the Commencement of Service Date 2 is £300,000 or 20% of the mobilisation total, whichever is lower.</p> <p>The maximum payment that may be made for mobilisation activities associated with Commencement of Service Date 1 undertaken after Commencement of Service Date 1 is £300,000 or 20% of the mobilisation total and will be made</p>



in monthly payments following Commencement of Service Date 1 at a rate of 25% of this total per month.

The maximum payment that may be made for mobilisation activities associated with Commencement of Service Date 2 undertaken after Commencement of Service Date 2 is £150,000 or 10% of the mobilisation total and will be made in monthly payments following Commencement of Service Date 2 at a rate of 25% of this total per month.

**Itemisation**                      58      Separate items shall be provided for mobilisation in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1      Mobilisation activities associated with Commencement of Service Date 1.
	2      Mobilisation activities associated with Commencement of Service Date 2.

**Mobilisation**                      59      The items for mobilisation shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage	<p>Mobilisation activities associated with Commencement of Service Date 1</p> <ul style="list-style-type: none"> <li>(a) Provide the Quality Management System including the Quality Plan,</li> <li>(b) Provide Resources for Integrated Roads Information System,</li> <li>(c) Provide Record Referencing system and storage facilities,</li> <li>(d) Liaise with the previous Operating Company, FETA and Scottish Ministers and institute handover of historical records and records' registers,</li> <li>(e) Provide Customer Contact Services including carrying out all activities in relation to email, phone system, website, advertising signs and leaflets,</li> <li>(f) Provide Traffic Scotland IT and operational systems</li> <li>(g) Provide Central Office and facilities (to include the establishment of an interim Operating Company central office by the Operating Company),</li> <li>(h) Provide subordinate Offices, Depots and facilities,</li> <li>(i) Provide Winter Service Constructional Plant and resources,</li> <li>(j) Provide Incident Response resources,</li> <li>(k) Provide All Plans and procedures as required in the Contract,</li> <li>(l) Prepare Cyclic Maintenance Schedule for Management and Maintenance of Structures,</li> <li>(m) Provide vehicle and equipment resources for Incident Support Unit,</li> <li>(n) Provide all training for new staff and staff transferring from the Forth Estuary Transport Authority required to fulfill the requirements of this Contract,</li> <li>(o) Provide salt barn and facilities and access,</li> <li>(p) Provide and populate Bridge Management Database including server for Forth Road Bridge,</li> <li>(q) Procure software to create and analyse the structural analysis model for the Forth Road Bridge,</li> <li>(r) Populate Integrated Roads Information System with information provided on the Forth Road Bridge from the Scottish Ministers,</li> <li>(s) Provide health and safety training and Health Monitoring for Operating Company staff working on the Forth Road Bridge,</li> </ul>
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- (t) Any other Mobilisation Services for Mobilisation Period 1 (to be listed by the Operating Company).

Mobilisation activities associated with Commencement of Service Date 2

- (a) Populate Integrated Roads Information System and the defects management database with information provided by Scottish Ministers,
- (b) Attend testing and commissioning and undertake training on monitoring, operation and maintenance of the SCADA, SHMS and all mechanical and electrical equipment on the Queensferry Crossing,
- (c) Familiarisation and review of all as built and health and safety information for FRC Principal Contract,
- (d) Undertake training on SHM and SCADA systems following Commencement of Service Date 2,
- (e) Re-location and fitting out of the Forth Road Bridge control room equipment to the new Operating Company control room,
- (f) Provide and fit out new Operating Company control room with monitoring equipment for the Forth Road Bridge,
- (g) Procure software for the creation of a structural analysis model for the Queensferry Crossing,
- (h) Undertake an inspection of the Queensferry Crossing following handover,
- (i) Provide All Plans and procedures as Required in the Contract,
- (j) Provide and Populate SQL-based Bridge Management Database for the Queensferry Crossing in accordance with Schedule 7: Part 7,
- (k) Any other Mobilisation Services for Mobilisation Period 2 (to be listed by the Operating Company).

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 200: SITE CLEARANCE****Site Clearance**

Insert the following before paragraph 1:

**Definitions** Delete all references to "tip" and replace with "licensed facility".

"licensed facility" means a licensed disposal facility or a licensed recycling facility.

Delete paragraphs 2 to 7 inclusive and insert the following paragraphs 2 to 5 inclusive:

**Units** 2 The units of measurement shall be:

(i) removing undergrowth ..... square metre,

(ii) removing hedges ..... linear metre.

**Measurement** 3 The measurement of removing undergrowth shall be the area to be cleared.

The height of hedges shall be measured from ground level.

**Itemisation** 4 Separate items shall be provided for Site clearance in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Removing undergrowth.
	2 Removing hedges.

**Site Clearance** 5 The items for Site clearance shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

**Item coverage**

(a) demolition, breaking up and removal,

(b) in the case of removing undergrowth, felling trees not exceeding 500mm girth and grubbing up stumps not exceeding 160mm diameter,

(c) in the case of removing hedges, removing fencing and wires, felling trees not exceeding 500mm girth and grubbing up stumps not exceeding 160mm diameter,

(d) credit value of materials,

(e) disposal of material (as Series 600 paragraph 39),

(f) working around services,

- (g) backfilling and compaction,
- (h) making good to severed ends of existing fences, hedges and walls,
- (i) disconnecting and sealing services,
- (j) preservation of individual or groups of trees, shrubs, hedges and other features,
- (k) reinstatement and making good,
- (l) filling post and stump holes with acceptable material from any source and compaction,
- (m) mechanical chipping of felled trees and saplings and spreading up to 25mm thick,
- (n) treatment of hazardous materials,
- (o) herbicide treatment.

Delete paragraph 8 and substitute the following:

- |       |  |
|-------|--|
| Units | <p>8 The units of measurement shall be:</p> <p>Take up or down and set aside for re-use or remove to store or licensed facility the following:</p> <ul style="list-style-type: none"> <li>(i) stonework ..... cubic metre,</li> <li>(ii) paved areas and other similar hardstandings, ..... square metre,</li> <li>(iii) kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, fencing, safety barrier, pedestrian guardrail, parapets, parapet rails, and other similar features ..... linear metre,</li> <li>(iv) road lighting columns, traffic signs, traffic sign posts, fence posts, safety barrier posts, parapet posts, parapet infill panels, sign lighting units, sign bracket arms, gates and stiles, reflecting road studs, feeder pillars, posts, brackets, and other similar features ..... number,</li> <li>(v) chamber covers and frames and gully gratings and frames and other similar features ..... number,</li> <li>(vii) quadrants ..... number,</li> <li>(vi) individual blocks, features or ..... number.</li> </ul> |
|-------|--|

Delete paragraph 9 and substitute the following:

- |             |  |
|-------------|--|
| Measurement | <p>9 The measurement for take up or down and set aside for re-use or remove to store or licensed facility stonework, paved areas, kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, linear drainage channel systems, fencing, safety barrier, pedestrian guardrail, parapets, parapet rails and other similar features, road lighting columns, traffic sign faces, traffic sign posts, fence posts, safety barrier posts, parapet posts, sign lighting units, sign bracket arms, gates and stiles, reflecting road studs, feeder pillars, posts, brackets,</p> |
|-------------|--|

and other similar features, chamber covers and frames and gully gratings and frames and other similar features, individual blocks or features shall be the volumes, areas, lengths or numbers measured.

Take up or down and set aside for re-use or remove to store or licensed facility for fence posts, parapet posts and rails shall only be separately measured when they are a separate operation from the items take up or down and set aside for re-use or remove to store or licensed facility for fences and parapets.

The measurement of take up or down and set aside for re-use or remove to store or licensed facility for safety barrier shall not include the posts which are separately measured.

Delete paragraph 10 and substitute the following:

Itemisation

10 Separate items shall be provided for take up or down and set aside for re-use or remove to store or licensed facility in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Take up or down and set aside for re-use or remove to store.
	2 Take up or down and remove to licensed facility.
II	1 stonework.
	2 Paved areas and other hardstandings.
	3 Kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, fencing, safety barrier, pedestrian guardrail, parapets, parapet rails and the like.
	4 Road lighting columns, traffic signs, traffic sign posts, fence posts, safety barrier posts, parapet posts, sign lighting units, sign bracket arms, gates and stiles, reflecting road studs and the like.
	5 feeder pillars, and the like.
	6 Chamber covers and frames and gully gratings and frames and the like.
	12 Individual blocks or features.
III	1 Any types and sizes.
	2 Any heights or mounting height.
IV	3 Different arrangements.

In paragraph 11 delete sub-paragraph (e) and replace with the following:

(e) cleaning, stacking, palletising, protecting and labelling.

Add the following sub-paragraph to paragraph 11:

- (i) retrieval of displaced materials from their position after displacement (excluding fees to Network Rail).

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 300: FENCING****Fencing, Gates and Stiles**

Delete paragraphs 1, 2 and 3 and substitute the following:

Units	1	The units of measurement shall be:	
		(i)	fencing, wire, wire mesh ..... linear metre,
		(ii)	gates, ..... number,
Measurement	2	Temporary fencing shall not be measured.	
		The measurement of fencing shall be the developed length along the centre-line of the fence. The measurement of height of fencing shall be that stated in this Contract for the type of fence.	
		The measurement of wire and wire mesh shall be separately measurable where it is required by this Contract to be fixed to fencing, gates and the like, and shall be the developed length along the centre-line of the fence.	
		The measurement of width of gates shall be the distance between the outer edges of the stiles, the outer edges of hanging stiles in the case of double gates.	
		The measurement of height of gates shall be the distance between the upper surface of the top rail and the underside of the bottom rail.	
Itemisation	3	Separate items shall be provided for fencing in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Each type of fencing.
			2 Each type of wire to fencing, gates and the like.
			3 Each type of wire mesh to fencing, gates and the like.
			4 Each type of gate.
		II	1 Fencing of different heights.
			2 Gates of different heights and widths.
		Note 1: Group II feature 1 shall only apply to Group 1 feature 1.	
		Note 2: Group II feature 2 shall only apply to Group 1 feature 4.	



**Fencing** 4

Item coverage Add the following:

- (y) removal of debris and other similar material on the line of the fencing.

After paragraph 16 add the following paragraphs 17 to 23 inclusive:

**Repairs to Existing Fencing – Renew Components**

- Units 17 The units of measurement shall be:
- (a) rails, wire, chain link, wire mesh ..... linear metre,
- (b) posts and struts..... number.

- Measurement 18 The measurement of renew rails, wire or mesh to existing fencing shall be the net length of rails, wire or mesh replaced.
- The measurement of renew posts or struts to existing fencing shall be the number of posts or struts replaced.
- Repairs to Existing Fencing – Renew Components shall not be used for replacement of complete fence.

- Itemisation 19 Separate items shall be provided for repairs to existing fencing in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Renew each type of rail or wire or mesh.
	2 Renew any type of post or strut.
II	1 Different types of post or strut.
III	1 Different types of wire or mesh.
	2 Different types of rail.

Note 1: Group II shall only apply to Group I feature 2.

Note 2: Group III shall only apply to Group I feature 1.

Note 3: Group IV shall only apply to Group I feature 2.

- Renew Rails, Wire and Netting** 20 The items for renew rails, wire and netting shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage		<ul style="list-style-type: none"> <li>(a) removal of existing fence rails, wire and netting,</li> <li>(b) disposal of material (as Series 600 paragraph 39),</li> <li>(c) removal of old fixings,</li> <li>(d) dismantling and re-erection of existing fence to facilitate removal of components,</li> <li>(e) fittings and fixings,</li> <li>(f) trimming ground on line of fencing,</li> <li>(g) protective system (as Series 1900 paragraph 4),</li> <li>(h) preservation of timber.</li> </ul>
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### **Renew Posts and Struts**

21 The items for renew posts and struts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage		<ul style="list-style-type: none"> <li>(a) removal of existing posts and struts,</li> <li>(b) removal of old fixings,</li> <li>(c) dismantling and re-erection of existing fence to facilitate renewal of components,</li> <li>(d) excavation of acceptable material (as Series 600 paragraphs 17 and 18),</li> <li>(e) excavation of unacceptable material (as Series 600 paragraphs 19),</li> <li>(f) breaking up foundations,</li> <li>(g) disposal of material (as Series 600 paragraph 39),</li> <li>(h) backfilling and compaction,</li> <li>(i) fittings and fixings,</li> <li>(j) protective system (as Series 1900 paragraph 4),</li> <li>(k) preservation of timber,</li> <li>(l) epoxy resin compound and mastic filler to posts fixed in sockets,</li> <li>(m) concrete foundations to posts and struts.</li> </ul>
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**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 400: ROAD RESTRAINT SYSTEMS (VEHICLE AND PEDESTRIAN)****Safety Barriers and Transitions**

Itemisation	4	In paragraph 4 delete Group V. Delete Group III and replace with the following:	
		Group	Feature
		III	1 Each Working Width Class or range of Working Width classes.
Item coverage	5	In paragraph 5 delete (a) (f) and (h) and replace with the following:	
		(a)	design, fabrication, installation, construction and testing,
		(f)	amendments to the Unit,

**Terminals**

Itemisation	8	In paragraph 8 delete Groups I to IV and replace with the following Groups I to III:	
		Group	Feature
		I	1 Terminal.
		II	1 Each performance class.
		III	1 Designed to be impacted on one side only.
			2 Designed to be impacted on both sides.

After paragraph 9 insert the following paragraphs 9A to 9D inclusive:

**Reconstruction of Concrete Ramps at Terminal Section**

Units	9A	The units of measurement shall be:	
		(i)	reconstruction of concrete ramps at terminal sections..... number.
Measurement	9B	The measurement of reconstruction of concrete ramps at terminal sections shall be the complete installation.	
Itemisation	9C	Separate items shall be provided for the reconstruction of concrete ramps in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Reconstruction of concrete ramps at terminal sections.

**Reconstruction of Concrete Ramps at Terminal Section**

	9D	The items for reconstruction of concrete ramps at terminal sections shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage	(a)	break out existing concrete ramp and disposal of material,
	(b)	cut off and drill out, grout in place new reinforcing rods,
	(c)	design,
	(d)	provision of design calculations and details to the Overseeing Organisation for acceptance,
	(e)	reports, certificates,
	(f)	provision of data and drawings,
	(g)	re-submissions and modifications,
	(h)	amendments to the work,
	(i)	obtaining approvals,
	(j)	everything necessary for the design, fabrication, installation and testing of the work.

**Connections to Existing Systems**

Itemisation	12	In paragraph 12 delete Groups III and IV.
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**Vehicle Parapets**

		In paragraph 18 add the following:										
Units	18	(ii) infill panel.....square metre.										
		After paragraph 19 insert the following paragraph 19A:										
Measurement	19A	Where infill is required to vehicle parapets it shall be separately measured.										
		The measurement of infill shall be the developed length along the centre-line of the infill multiplied by the height of the infill.										
Itemisation	20	In paragraph 20 delete Groups III, V and VI and add the following:										
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>2 Infill panel to vehicle parapet.</td></tr><tr><td>III</td><td>1 Each Working Width Class or range of Working Width Class.</td></tr><tr><td>V</td><td>1 Class of infill panel.</td></tr><tr><td>VI</td><td>1 Type of infill panel.</td></tr></table>	Group	Feature	I	2 Infill panel to vehicle parapet.	III	1 Each Working Width Class or range of Working Width Class.	V	1 Class of infill panel.	VI	1 Type of infill panel.
Group	Feature											
I	2 Infill panel to vehicle parapet.											
III	1 Each Working Width Class or range of Working Width Class.											
V	1 Class of infill panel.											
VI	1 Type of infill panel.											
		Note 1: Group II, III and IV features shall only be applied to Group I feature 1 vehicle parapet.										
		Note 2: Group V and VI features shall only be applied to Group I feature 2 infill panel to vehicle parapet.										

**Pedestrian Parapets and Pedestrian Guardrails**

Units	23	In paragraph 23 add the following: (ii) infill panel.....square metre. After paragraph 24 insert the following paragraph 24A:													
Measurement	24A	Where infill is required to pedestrian parapets it shall be separately measured.  The measurement of infill shall be the developed length along the centre-line of the infill multiplied by the height of the infill.													
Itemisation	25	In paragraph 25 delete Groups IV, V and VI and add the following: <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>3 Infill panel to pedestrian parapet.</td></tr><tr><td>IV</td><td>1 Class of infill panel.</td></tr><tr><td>V</td><td>1 Type of infill panel.</td></tr></table> Delete Notes 1 and 2 and replace with the following: Note 1: Group II and III features shall only apply to Group I features 1 and 2. Note 2: Group IV and V features shall only be applied to Group I feature 3. Delete paragraph 36 and substitute the following:		Group	Feature	I	3 Infill panel to pedestrian parapet.	IV	1 Class of infill panel.	V	1 Type of infill panel.				
Group	Feature														
I	3 Infill panel to pedestrian parapet.														
IV	1 Class of infill panel.														
V	1 Type of infill panel.														
Itemisation	36	Separate items shall be provided for remove from store or from where previously set aside and re-erect safety barrier in accordance with Chapter II paragraphs 3 and 4 and the following: <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Single-sided safety beam.</td></tr><tr><td></td><td>2 Double-sided safety beam.</td></tr><tr><td></td><td>3 Driven post.</td></tr><tr><td></td><td>4 Long driven post.</td></tr><tr><td></td><td>5 Post for setting in concrete or socket.</td></tr></table>		Group	Feature	I	1 Single-sided safety beam.		2 Double-sided safety beam.		3 Driven post.		4 Long driven post.		5 Post for setting in concrete or socket.
Group	Feature														
I	1 Single-sided safety beam.														
	2 Double-sided safety beam.														
	3 Driven post.														
	4 Long driven post.														
	5 Post for setting in concrete or socket.														
Remove from Store and Re-erect Posts	41A	After paragraph 41 add the following paragraphs 41A. The items for remove from store and re-erect posts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:													
Item Coverage		(a) loading, transporting from store, unloading and positioning for re-erection, (b) replacing items damaged during the foregoing operations, (c) modification and new materials,													

- (d) making good to protective system,
- (e) fabrication (as Series 1800 paragraph 6),
- (f) protective system (as Series 1900 paragraph 4),
- (g) driving in any material,
- (h) fixing to structures including attachment systems,
- (i) post caps, excluders, hooks and fittings,
- (j) drilling or foaming holes and pockets and casting in bolts, base plates and anchorage assemblies,
- (k) bedding,
- (l) filling,
- (m) making good protective system,
- (n) facilities for proof loading.

After paragraph 47 add the following paragraphs 48 to 57 inclusive:

**Repairs to Safety Barriers, Vehicle Parapets, Pedestrian Parapets and Pedestrian Guardrails**

- |            |   |
|------------|---|
| Definition | <p>48 Repairs to safety barriers, vehicle parapets, pedestrian parapets and pedestrian guardrails shall be the complete replacement of the whole of the damaged apparatus and shall include posts and rails.</p> <p>49 The measurement of repairs to safety barriers, vehicle parapets, pedestrian parapets and pedestrian guardrails shall be as follows:</p> <ul style="list-style-type: none"> <li>(i) take up or down and remove to licensed facility (measured in Series 200 Site Clearance) for any components that cannot be re-used,</li> <li>(ii) take up or down and set aside or remove to store (measured in Series 200 Site Clearance) for any components that can be re-used,</li> <li>(iii) remove from store and re-erect (measured as this Series paragraphs 31 to 40) for any components that can be reused,</li> <li>(iv) remove from store and re-erect (measured as this Series paragraphs 31 to 41N) for any components that are available in store,</li> <li>(v) invoiced costs of materials measured in accordance with Series 6500,</li> <li>(vi) percentage to be added to the basic cost of materials invoiced costs.</li> </ul> |
|------------|---|

**Painting of Safety Barriers, Vehicle Parapets and Pedestrian Parapets**

- |       |   |
|-------|---|
| Units | <p>50 The unit of measurement shall be:</p> <ul style="list-style-type: none"> <li>(i) painting of Safety Barriers, Vehicle Parapets , and Pedestrian Parapets ..... linear metre.</li> </ul> |
|-------|---|

**Measurement** 51 The measurement of painting of Safety Barriers, Vehicle Parapets and Pedestrian Parapets, shall be the developed length along the centre-line of the units.

Painting of Safety Barriers, Vehicle Parapets and Pedestrian Parapets shall only be measured when painting in excess of the protective system is required.

**Itemisation** 52 Separate items shall be provided for Painting of Safety Barriers, Vehicle Parapets and Pedestrian Parapets in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Painting of safety barrier.
	2 Painting of vehicle parapets.
	3 Painting of pedestrian parapets.

### **Painting of Safety Barriers, Vehicle Parapets and Pedestrian Parapets**

53 The items for painting of Safety Barriers, Vehicle Parapets and Pedestrian Parapets shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

**Item coverage** (a) protection of steelwork against corrosion (as Series 1900 paragraph 4),  
(b) painting of all components.

### **Temporary Safety Barriers**

**Units** 54 The units of measurement shall be:

(i) temporary safety barrier ..... metre.

**Measurement** 55 The measurement of temporary safety barrier shall be the developed length along the centre-line of the temporary safety barrier including terminal sections.

Temporary safety barrier shall only be measured where the temporary safety barrier is acting as a permanent parapet. All other temporary safety barrier shall not be measured.

**Itemisation** 56 Separate items shall be provided for temporary safety barriers in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Temporary Safety Barrier.
II	1 Each containment performance class.
III	1 Each Working Width Class or range of Working Width Classes.

<b>Temporary Safety Barriers</b>	57	The items for temporary safety barriers shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) safety barriers and transitions (as this Series paragraph 5),</li> <li>(b) terminals (as this Series paragraph 9),</li> <li>(c) dismantling, loading, transporting removal and unloading,</li> <li>(d) maintenance, which includes for all time-related costs associated with keeping the temporary safety barrier in both condition and position.</li> </ul>

#### **Replacement of Central and Side Vehicle Barriers on Forth Road Bridge**

Units	58	The unit of measurement shall be: <ul style="list-style-type: none"> <li>(i) replacement of central and side vehicle barriers on Forth Road Bridge ..... linear metre.</li> </ul>
Measurement	59	The measurement shall be the length of central and side vehicle barriers on Forth Road Bridge replaced.
Itemisation	60	Separate items shall be provided for replacement of central and side vehicle barriers on Forth Road Bridge in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Replacement of central and side gratings on Forth Road Bridge.

#### **Replacement of Central and Side vehicle barriers on Forth Road Bridge**

- The items for replacement of central and side vehicle barriers on Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
- (a) removal of existing barriers,
  - (b) disposal of existing barriers,
  - (c) fabrication of new section of vehicle barriers (as series 1800 paragraph 6),
  - (d) protective system to vehicle barrier (as series 1900 paragraph 4),
  - (e) making good ends of adjacent sections of barrier,
  - (f) loading, transporting, unloading, positioning and erection,



- (g) connecting to structure and adjacent vehicle barrier units.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 500: DRAINAGE AND SERVICE DUCTS****Drains and Service Ducts (Excluding Filter Drains, Narrow Filter Drains and Fin Drains)**

Units	9	Add the following sub paragraphs:	
		(ii)	extra over drain for concrete bed and surround (bed Type Z) .....metre,
		(iii)	extra over drain in trench for backfilling with concrete .....cubic metre.
Itemisation	15	In paragraph 15 delete group VI, add the following:	
		Group	Feature
		I	3 Extra over drain for concrete bed and surround (bed Type Z).
			4 Extra over drain or service duct for backfilling with concrete to underside of pavement.
		Insert "1" after "Note".	
		Add the following:	
		Note 2: Itemisation for drains includes compliance with any Groups, materials and bed types for the stated depths, excluding bed type Z which will be measured as extra over.	
		Note 3: Groups II, IV and V shall not apply to Group I features 3 and 4.	

**Filter Drains**

		In paragraph 17 add the following:	
Units	17	(v)	renew geotextile membrane to replaced filter material..... square metre.
Measurement	20	In paragraph 20 delete the last paragraph and add the following:	
		The measurement of excavate and replace filter material shall include contiguous filter material between the filter drain and the adjacent carriageway, hardshoulder and hardstrip.	
		The measurement of excavate and replace filter material excluding contiguous filter material shall be the product of the lengths, widths and depths ordered with no deduction for pipes, ducts or chambers. Lengths and widths for filter drains shall be taken as the lengths and widths at the level	

of the drain invert or, in the case that partial excavation is ordered, at the depth to which excavation is ordered.

The widths of excavate and replace contiguous filter material shall be between the side of the contiguous filter material next to the filter drain which shall be taken as the vertical extension of the side at the level of the drain invert or, in the case of partial excavation, at the depth to which excavation is ordered and the adjacent carriageway, hardshoulder and hardstrip. The depth of the contiguous filter material next to the filter drain shall be taken above capping or where no capping is provided above subgrade level. Where the filter material is covered with red chippings the top surface of the excavate and replace filter material shall be the underside of the red chippings.

Itemisation 21 In paragraph 21 add the following Feature 6 to Group I and delete group V:

Group	Feature
I	6 Renew geotextile membrane to replaced filter material.

Delete paragraph 24 and replace with the following:

**Excavate and Replace Filter Material**

24 The items for excavate and replace filter material shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) filter drains (as this Series paragraph 22), excluding geotextile membrane,
- (b) cleaning and replacing excavated filter material,
- (c) new and recycled filter material.

After paragraph 24 add the following paragraph 24A:

**Renew Geotextile Membrane to Replaced Filter Material**

24A The items for renew geotextile membrane to replaced filter material shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) regulating and preparing surfaces,
- (b) laps,
- (c) measures to protect material,
- (d) cutting, jointing, and fixing.

**Renewal, Raising or Lowering of Covers and Gratings on Existing Chambers and Gullies**

Itemisation 63 In paragraph 63 delete group I to VI and add the following:

Group	Feature
I	1 Renewal.
	2 Raising or lowering the level.
II	1 Area not exceeding 0.40 square metres.

	III	1	Not exceeding 150 mm.
		2	Exceeding 150 mm but not exceeding 300 mm.
<hr/>			
	In paragraph 64 add the following:		
Item coverage	(u)	paving material infilling to covers.	
After paragraph 80 add the following paragraphs 80A to 80D inclusive:			
<b>Protection of Existing Sewer, Drain or Service Duct</b>			
Units	80 A	The unit of measurement shall be:	
		(i)	protection of existing sewer, drain or service duct ..... linear metre.
Measurement	80 B	The measurement of protection shall be the individual lengths of sewer, drain or service duct to be protected.	
Itemisation	80 C	Separate items shall be provided for protection of existing sewer, drain or service duct in accordance with Chapter II paragraphs 3 and 4 and the following:	
<hr/>			
	Group	Feature	
	I	1	Different widths.
	II	1	Different types of protection.
<b>Protection of Existing Sewer, Drain or Service Duct</b>	80 D	The items for protection of existing sewer, drain or service duct shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
		(a)	concrete (as Series 1700 paragraphs 5 and 10),
		(b)	formwork (as Series 1700 paragraph 15),
		(c)	reinforcement (as Series 1700 paragraph 26),
		(d)	bedding and compaction,
		(e)	fabric reinforcement.
After paragraph 84 add the following paragraphs 85 to 93 inclusive:			
<b>Drain Surveys</b>			
Units	85	The unit of measurement shall be:	
		(i)	drain survey ..... kilometre.
Measurement	86	The measurement of drain survey shall be the length of carriageway.	
Itemisation	87	Separate items shall be provided for drain surveys in accordance with Chapter II paragraphs 3 and 4 and the following:	
<hr/>			
	Group	Feature	
	I	1	Drain survey.

		II	1	Type 1.
			2	Type 3.
<b>Drain Survey Type 1</b>	88	The items for drain survey Type 1 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a)	carrying out desk study using available data,	
		(b)	locating chambers, pump chambers, balancing ponds, penstocks, flap valves, headwalls, outfalls, and the like,	
		(c)	recording,	
		(d)	reporting.	
<b>Drain Survey Type 3</b>	89	The items for drain survey Type 3 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a)	locating chambers, pump chambers, balancing ponds, penstocks, flap valves, headwalls, outfalls, and the like,	
		(b)	removing and reinstalling covers and gratings,	
		(c)	measuring pipe sizes,	
		(d)	measuring invert level of pipes,	
		(e)	condition survey,	
		(f)	recording,	
		(g)	reporting.	
<b>Closed Circuit Television Drain Surveys</b>				
Units	90	The units of measurement shall be:		
		(i)	setting up closed circuit television equipment for drain survey ..... number,	
		(ii)	closed circuit television drain survey..... linear metre.	
Measurement	91	The measurement of setting up closed circuit television equipment for drain survey shall be the number of chambers at which the equipment is set up.		
		Any additional setting up of equipment for drain survey to suit the Operating Company's method of working shall not be measured.		
		The measurement of drain survey by closed circuit television camera shall be the length measured along the centre-lines of the pipes between any of the following:		
		(a)	the external faces of chambers, gullies or headwalls,	
		(b)	the intersection of the centre-lines at pipe junctions,	
		(c)	the position of any known terminations.	

Itemisation	92	Separate items shall be provided for closed circuit television surveys in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Setting up closed circuit television equipment for drain survey.
			2 Closed circuit television drain survey.
		II	1 All diameters
		Note: Group II shall only apply to Group I feature 2.	
<b>Closed Circuit Television Drain Surveys</b>	93	The items for closed circuit television drain surveys shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item coverage		(a)	locating chambers, pump chambers, balancing ponds, penstocks, flap valves, headwalls, outfalls, and the like,
		(b)	removing and reinstalling covers and gratings,
		(c)	moving and setting up closed circuit television camera equipment,
		(d)	inserting equipment into drains,
		(e)	water supply,
		(f)	recording,
		(g)	identification of locations recorded,
		(h)	picture quality tests and linear measurement checks,
		(i)	reporting.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 600: EARTHWORKS****Excavation**

Itemisation      16      In paragraph 16 replace Groups and Features with the following:

Group	Features
I	1      Excavation.
II	1      Acceptable material Class 5A.
	2      Acceptable material excluding Class 5A.
	3      Unacceptable material Class U1A or U1B.
	4      Unacceptable material Class U2.

Delete Note 2.

In paragraph 18 add the following:

**Excavation in Hard Material**

Item coverage      18      (w)      completion of formation and sub-formation.

In paragraph 22 replace Group II with the following:

Group	Features
II	1      In ditches or watercourses.
	2      In all other locations.

In paragraph 23 add the following:

Item coverage      23      (f)      completion of formation and sub-formation.

**Deposition of Fill**

Itemisation      32      In paragraph 32 replace Group III with the following:

Group	Features
III	1      To any Location.

Itemisation	38	<b>Disposal of Material</b>	
		In paragraph 38 replace Group II with the following:	
		Group	Features
		II	1 Acceptable material Class 5A.
			2 Acceptable material excluding Class 5A.
			3 Unacceptable material Class U1A or U1B.
			4 Unacceptable material Class U2.
Itemisation	44	<b>Imported Fill</b>	
		In paragraph 44 replace Groups and Features with the following:	
		Group	Feature
		I	1 Imported acceptable material.
			2 Imported topsoil Class 5B.
		II	1 Any location.
Itemisation	51	<b>Compaction of Fill</b>	
		In paragraph 51 replace Group III with the following:	
		Group	Feature
		III	1 Any location.
Itemisation	63	<b>Soft Spots and Other Voids</b>	
		In paragraph 63 replace Group II with the following:	
		Group	Feature
		II	1 Any location.
Itemisation	79	<b>Topsoiling and Storage of Topsoil</b>	
		In paragraph 79 delete Group II and Note.	
	84 & 85	<b>Completion of Formation and Sub-formation</b>	
		Delete paragraphs 84 and 85.	
Itemisation	88	<b>Lining of Watercourses</b>	
		In paragraph 88 replace Group II as follows:	
		Group	Feature
		II	1 To inverts or side slopes.



<b>Trial Pits</b>											
Itemisation	168	In paragraph 168 replace Group II with the following:									
<table><tr><td>Group</td><td colspan="2">Feature</td></tr><tr><td>II</td><td>1</td><td>0 metres to 1.5 metres in depth.</td></tr></table>			Group	Feature		II	1	0 metres to 1.5 metres in depth.			
Group	Feature										
II	1	0 metres to 1.5 metres in depth.									
<b>Siding out of Carriageways, Footways and Paved Areas</b>											
Units	178	The units of measurement shall be:									
		(i) siding out of carriageways, footways and paved areas ..... linear metre.									
Measurement	179	The measurement of siding out of carriageways, footways and paved areas shall be the length along the cut edge.  No deduction shall be made for gaps within the length of 2 metres or less.									
Itemisation	180	Separate items shall be provided for siding out of carriageways, footways and paved areas in accordance with Chapter II paragraphs 3 and 4 and the following:									
<table><tr><td>Group</td><td colspan="2">Feature</td></tr><tr><td>I</td><td>1</td><td>Siding out of carriageways.</td></tr><tr><td></td><td>2</td><td>Siding out of footways and paved areas.</td></tr></table>			Group	Feature		I	1	Siding out of carriageways.		2	Siding out of footways and paved areas.
Group	Feature										
I	1	Siding out of carriageways.									
	2	Siding out of footways and paved areas.									
<b>Siding out of Carriageways, Footways and Paved Areas</b>	181	The items for siding out of carriageways, footways and paved areas shall in accordance with the Preamble to Schedule of Rates and Prices General Directions include for:									
Item coverage		(a) programming the work in advance of any other operation at the Site, (b) breaking up and removal of hardened dirt areas, (c) prevention of damage to existing carriageways, footways and paved areas, (d) disposal of material by spreading and levelling on verge or disposal of material (as Series 600 paragraph 39), (e) trimming of edges to a neat line, (f) leaving carriageway, footway and verge clear of debris.									

## SCOTTISH MINISTERS' REQUIREMENTS

### SCHEDULE 2 PART 1

#### METHOD OF MEASUREMENT

##### SERIES 700: PAVEMENTS

###### Sub-base

In paragraph 4 delete Group II.

###### Pavement

###### Definition

Before paragraph 7 insert the following paragraph 6A:

6A Pavement course described as "base/binder" shall be deemed to be base course for measurement purposes.

In paragraph 7 delete the first sub-paragraph and substitute the following:

- 7 The measurement of base, lower base, upper base, binder course, surface course concrete slab, adjustment for each 5mm variation above or below the stated thickness, adjustment for alternative PSV and adjustment for alternative AAV on Surface Course shall be calculated using the width of the top surface of the course or slab.

After the last sub-paragraph of paragraph 7, insert the following sub-paragraphs:

- (i) When base course is 150mm or less total thickness it shall be measured as a single layer of base course 100mm thick with +/- adjustments for each 5mm thickness increment where applicable.
- (ii) When base course is greater than 150mm but not exceeding 250mm total thickness it shall be measured as two layers of base course with +/- adjustments for each 5mm thickness increment where applicable.
- (iii) When base course is greater than 250mm but not exceeding 350mm total thickness it shall be measured as three layers of base course with +/- adjustments for each 5mm thickness increment where applicable.
- (iv) When binder course is 90mm or less total thickness it shall be measured as a single layer of binder course 60mm thick with +/- adjustments for each 5mm thickness increment where applicable.
- (v) When binder course is greater than 90mm but not exceeding 150mm total thickness it shall be measured as two layers of binder course with +/- adjustments for each 5mm thickness increment where applicable.

In paragraph 8:

Add to Group II the following features:

Group	Feature
II	7 Adjustment for each 5mm variation above or below the stated thickness.
	8 Adjustment for alternative PSV on Surface Course.
	9 Adjustment for alternative AAV on Surface Course.

Delete Groups VI and VII and replace with the following:

Group	Feature
VI	1 Each Type to which the adjustment applies.
VII	1 Each thickness to which the adjustment applies.
VIII	1 Each alternative PSV.
IX	1 Each alternative AAV.

Note 1: Groups III, IV and V shall only apply to Group II features 1 to 6.

Note 2: Group VI shall only apply to Group II features 7, 8 and 9.

Note 3: Group VII shall only apply to Group II feature 7.

Note 4: Group VIII shall only apply to Group II feature 8.

Note 5: Group IX shall only apply to Group II feature 9.

**Base, Lower Base,  
Upper Base,  
Binder Course,  
Surface Course  
and Concrete Slab**

- Item coverage 9 Delete (aa) and replace with the following:
- (aa) slurry sealing, surface dressing, bituminous spray, resin based treatment and tack coat.
- Add the following after (ee):
- (ff) removing loose material and water,
- (gg) forming joints and sealing.

Add the following after paragraph 9:

**Adjustment for each 5mm variation above or below the stated thickness, Adjustment for alternative PSV on Surface Course and Adjustment for alternative AAV on Surface Course**

- 9A The items for the adjustment for each 5mm variation above or below the stated thickness and alternative PSV on Surface Course and alternative AAV on Surface Course shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) Base, Lower Base, Upper Base, Binder Course, Surface Course and Concrete Slab (as this Series paragraph 9).

**Surface Treatment**

- 19 Add the following:

Item coverage

- (f) different colours.

**Tack Coat**

Delete paragraph 22 and substitute the following:

- 22 Tack coat shall not be separately measured except where an Item description has been included in Schedule 2 Part2.

**Reinstatement of Carriageway, Hardshoulder, Emergency Crossing, Hardstrip, Lay-by or Bus bay and Paved Areas**

Itemisation

- 35 In paragraph 35 delete Group II and replace with the following:

Group	Feature
II	1 In carriageway, hardshoulder, emergency crossing, hardstrip, lay-by or bus bay.
	2 In footway or paved area.
III	1 Not exceeding 150mm total thickness.
	2 Over 150mm but not exceeding 300mm total thickness and so on in stages of 150mm.

**Reinstatement of Carriageway, Hardshoulder, Emergency Crossing, Hardstrip, Lay-by or Bus bay and Paved Area**

- 36 In paragraph 36 add the following:

Item coverage

- (m) excavation (as Series 600 paragraphs 17, 18, 19 and 23),  
(n) disposal of material (as Series 600, paragraph 39).

Itemisation 42 In paragraph 42 delete Groups III and IV.

### **Repairs and Patching to Carriageways**

Delete paragraphs 77 to 81 and replace with the following paragraphs 77 to 86 inclusive:

Measurement 77 Measurement of:

- (i) permanent repairs to Category 1 Defects exceeding £10,000, and
- (ii) patching to carriageways,

shall be in accordance with Series 600 and this Series paragraphs 1 to 28 inclusive.

### **Pavement Reinforcement**

Units 78 The units of measurement shall be:

- (i) pavement reinforcement..... square metre.

Measurement 79 The measurement of pavement reinforcement shall be the area of the reinforcement.

80 No deductions shall be made for openings of 1 square metre or less.

Itemisation 81 Separate items shall be provided for pavement reinforcement in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Pavement reinforcement.

**Pavement Reinforcement** 82 The items for pavement reinforcement shall in accordance with Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) cleaning, trimming, regulating and preparing surfaces,
- (b) laps,
- (c) measures to protect material,
- (d) cutting, jointing, sealing and fixing,
- (e) securing material in place,
- (f) tensioning of reinforcement,
- (g) tack coat (as this Series paragraph 24).

### **Grip Testing**

Units 83 The units of measurement shall be:

- (i) grip testing..... km.

Measurement 84 Each carriageway lane tested shall be separately measured. The measurement shall be computed net to the nearest whole number.

Itemisation 85 Separate items shall be provided for grip testing in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Grip testing.

**Grip Testing**

86 The items for grip testing shall in accordance with Preambles to Schedule of Rates and Prices General Directions include for:

Item Coverage

- (a) calibration checks,
- (b) pre-survey,
- (c) testing each section twice where required,
- (d) multiple and repeat testing,
- (e) recording of GPS data,
- (f) reporting.

**Overband Sealing**

Units

87 The units of measurement shall be:

- (i) overband sealing of cracks and joints in pavements ..... linear metre.

Itemisation

88 Separate items shall be provided for overband sealing of cracks and joints in pavements in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Overband sealing of cracks in pavements.
	2 Overband sealing of joints in pavements.

**Overband Sealing of Cracks and Joints in Pavements**

89 The items for overband sealing of cracks and joints in pavements shall in accordance with Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- a) cleaning and drying of cracks and joints,
- (b) filling and sealing of cracks and joints,
- (c) removal of all debris and materials from cracks and joints,
- (d) disposal of material (as Series 600 paragraph 39).

**Hand laid Mastic Asphalt on Forth Road Bridge**

Units

90 The units of measurement shall be:

- (i) hand laid mastic asphalt surface course on Forth Road Bridge.....square metre.

## Itemisation

- 91 Separate items shall be provided for hand laid mastic asphalt on Forth Road Bridge to surface course in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 In carriageway on Forth Road Bridge on main spans to the specified thickness.
	2 In carriageway on Forth Road Bridge on concrete deck on viaducts.
	3 In carriageway on Forth Road Bridge side spans to the specified thickness.

**Hand laid Mastic Asphalt on Forth Road Bridge**

- 92 The items for hand laid mastic asphalt on Forth Road Bridge shall in accordance with Preambles to Schedule of Rates and Prices General Directions include for:

## Item coverage

- (a) trial areas and trials,
- (b) making good after sampling and testing,
- (c) protection of material in transit and while awaiting tipping,
- (d) designing and verifying mixes,
- (e) grading, measuring, reclaiming, mixing and depositing materials,
- (f) spreading and compaction,
- (g) cutting back, saw cutting, cleaning, preparing and working on or up to existing surfaces and features,
- (h) edge support,
- (i) waterproof and separation membranes,
- (j) surface texturing,
- (k) making joints,
- (l) forming or sawing grooves, cleaning, grit blasting, priming, caulking, temporary and permanent sealing of joints,
- (m) hand spreading,
- (n) shaping to cambers, falls and crowns,
- (o) forming sockets, recesses, openings, and bays,
- (p) curing and protection,
- (q) protection and masking and unmasking of kerbs, drainage channels, chamber covers, gully gratings, expansion joints, and the like,
- (r) maintenance of surface,
- (s) taking measures to protect and maintain the pavement from deterioration by the use of constructional plant and the ingress of water and other materials,
- (t) melding the mastic asphalt into any existing surfacing material on top of the waterproofing,

- (u) measures required for aftercare and opening the road to traffic,
- (v) slurry sealing, surface dressing, bituminous spray, resin based treatment and tack coat forming integral part of the pavement,
- (w) admixtures and additives.

### Removal of surfacing on Forth Road Bridge

Units

93 The units of measurement shall be:

- (i) removal of surfacing on Forth Road Bridge.....square metre.

Itemisation

94 Separate items shall be provided for removal of surfacing on Forth Road Bridge in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 removal of surfacing on concrete deck on side spans.
	2 removal of surfacing on steel deck on main span.
	3 Removal of surfacing on concrete deck on viaducts.

**Removal of surfacing**

95 The items for removal of surfacing on Forth Road Bridge shall in accordance with Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) shaping to cambers, falls and crowns,
- (b) removal of the existing surfacing material above the existing waterproofing system including all unsound or cracked material,
- (c) multiple handling of material,
- (d) loading into transport,
- (e) disposal of material (as Series 600 paragraph 39),
- (f) working around drainage channels, chamber covers, gully gratings,
- (g) expansion joints and the like,
- (h) Ramps,
- (i) taking all protective measures to avoid damage to the deck plate,
- (j) taking all protective measures to avoid damage to the concrete deck
- (k) taking all protective measures to avoid damage to the waterproofing system.



**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 1100: KERBS, FOOTWAYS AND PAVED AREAS**

		<b>Kerbs, Channels, Edgings, Combined Kerbs and Channels, Combined Drainage and Kerb Blocks, and Linear Drainage Channel Systems</b>																		
Itemisation	3	In paragraph 3 delete Group III.  Delete paragraphs 13 to 22 and insert the following paragraphs 13 to 17 inclusive:																		
		<b>Footways and Paved Areas</b>																		
Units	13	The units of measurement shall be:  (i) bituminous material, in-situ concrete paving, precast concrete paving and lean mix ..... square metre,  (ii) sub-base ..... cubic metre.																		
Measurement	14	The measurement of footways and paved areas shall be the area of the top surface of the layer.																		
	15	No deduction shall be made for openings of 1 square metre or less.																		
Itemisation	16	Separate items shall be provided for footways and paved areas in accordance with Chapter II paragraphs 3 and 4 and the following:																		
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Bituminous material layer.</td></tr><tr><td></td><td>2 In-situ concrete layer.</td></tr><tr><td></td><td>3 Precast concrete layer.</td></tr><tr><td></td><td>4 Lean mix concrete layer.</td></tr><tr><td></td><td>5 Sub-base layer.</td></tr><tr><td></td><td>6 Stone chippings layer.</td></tr><tr><td>II</td><td>1 Different materials.</td></tr><tr><td>III</td><td>1 Different thicknesses.</td></tr></table> <p>Note: Group III feature 1 shall not apply to Group I feature 5.</p>	Group	Feature	I	1 Bituminous material layer.		2 In-situ concrete layer.		3 Precast concrete layer.		4 Lean mix concrete layer.		5 Sub-base layer.		6 Stone chippings layer.	II	1 Different materials.	III	1 Different thicknesses.
Group	Feature																			
I	1 Bituminous material layer.																			
	2 In-situ concrete layer.																			
	3 Precast concrete layer.																			
	4 Lean mix concrete layer.																			
	5 Sub-base layer.																			
	6 Stone chippings layer.																			
II	1 Different materials.																			
III	1 Different thicknesses.																			
<b>Footways and Paved Areas</b>	17	The items for footways and paved areas shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:																		
Item coverage	(a)	edge support,																		
	(b)	concrete (as Series 1700 paragraphs 5 and 10),																		

- (c) formwork (as Series 1700 paragraph 15),
- (d) void formers (as Series 1700 paragraph 16),
- (e) working round obstructions,
- (f) reinforcement (as Series 1700 paragraph 26),
- (g) joint filler and sealant (as Series 2300 paragraphs 9 and 10),
- (h) mortar and sand beds,
- (i) surface finishes,
- (j) trial mixes,
- (k) regulating, laying to levels and falls,
- (l) bedding, laying course, jointing and pointing,
- (m) straight, circular and radial cutting and fitting,
- (n) rough and fair cutting and fitting,
- (o) not used,
- (p) not used,
- (q) compacting,
- (r) membrane,
- (s) topsoiling (as Series 600 paragraph 80),
- (t) grass seeding (as Series 3000 paragraph 9),
- (u) compliance with Series 700 paragraph 5,
- (v) compliance with Series 700 paragraph 9.

Delete paragraphs 23 to 29 inclusive and substitute the following paragraphs 23 to 29 inclusive:

**Remove from Store or from where previously Set Aside and Relay Paving Flags and Blocks**

Units	23	The unit of measurement shall be:	
	(i)	remove from store and relay paving flags and blocks ..... square metre.	
Measurement	24	The measurement of remove from store and relay paving flags and blocks shall be the area of the top surface of the work.  No deduction shall be made for openings of 1 square metre or less.	
	25	Separate items shall be provided for remove from store and relay paving flags and blocks in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Remove from store or where previously set aside and relay paving in footways and paved areas.
		II	1 Different materials.

**Remove from Store and Relay Paving Flags and Blocks**

The items for remove from store and relay paving flags and blocks shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

- |               |    |  |
|---------------|----|--|
| Item coverage | 26 | (a) loading, transporting from store or from where previously set aside, unloading and positioning for relaying,<br>(b) replacing items damaged during the foregoing operations,<br>(c) modification and new materials,<br>(d) footways and paved areas (as this Series paragraph 18). |
|---------------|----|--|

**Cold Milling (Planing)**

- |    |  |
|----|--|
| 34 | The units, measurement, itemisation and item coverage for cold milling (planing) shall be as Series 700 paragraphs 25 to 28 inclusive. |
|----|--|

**Reinstatement of Paved Areas**

- |    |  |
|----|--|
| 35 | The units, measurement, itemisation and item coverage for reinstatement of paved areas shall be as Series 700 paragraphs 33 to 36 inclusive. |
|----|--|

**Patching of Footways and Paved Areas**

- |             |    |  |
|-------------|----|--|
| Definition  | 36 | Patching covers the replacement of surfacing materials in any number of individual areas of not exceeding 5 square metres.   |
| Units       | 37 | The unit of measurement shall be:<br>(i) patching, ..... square metre.   |
| Measurement | 38 | The measurement of patching shall be the area of the top surface of the patch.<br><br>Where several patches are in a single Scheme the measurement shall be the summated area of all the patches in that Scheme. |
| Itemisation | 39 | Separate items shall be provided for patching in accordance with Chapter II paragraphs 3 and 4 and the following:  |

Group	Feature	
I	1	Patching in existing footway or paved area.
II	1	Surface course.
	2	Binder course.
III	1	Different thicknesses.

**Patching of  
Footways and  
Paved Areas**

- 40 The items for patching of footways and paved areas shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
- (a) excavation (as Series 600 paragraphs 17, 18, 19 and 23),
  - (b) breaking out each course of existing pavement to defined depths and lines, stepped back between successive courses,
  - (c) milling (as this Series paragraph 35),
  - (d) disposal of material (as Series 600 paragraph 39),
  - (e) trimming and protecting vertical edges,
  - (f) making good up to adjacent courses, cleaning and painting with bitumen,
  - (g) regulating,
  - (h) temporary and permanent reinstatement (as Series paragraph 36),
  - (i) tack coat (as Series 700 paragraph 24),
  - (j) all of the above if the patching fails within 12 months.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 1200: TRAFFIC SIGNS AND ROAD MARKINGS**

Delete heading "Traffic Signs" and replace with:

**Traffic Signs Faces**

Delete paragraph 1 to 5 and replace with the following paragraphs 1 to 5P inclusive:

Units	1	The unit of measurement shall be:	
		(i)	traffic sign faces.....square metre.
		(ii)	extra over traffic sign faces for dew resistant sheeting.....square metre.
Measurement	2	The measurement of traffic sign faces shall be the surface area of the sign.	
Itemisation	3	Separate items shall be provided for traffic signs faces in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Permanent traffic sign faces.
			2 Extra over traffic sign faces for dew resistant sheeting.
		II	
			1 Microprismatic Grade retroreflective.
		III	1 Sign face not exceeding 0.50 square metres in area.
			2 Sign face exceeding 0.5 but not exceeding 1.0 square metres in area.
			3 Sign face exceeding 1.0 but not exceeding 2.0 square metres in area.
			4 Sign face exceeding 2.0 but not exceeding 5.0 square metres in area.
			5 Sign face exceeding 5.0 square metres in area.
<b>Traffic Sign Faces</b>	4	The items for traffic sign faces shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item coverage		(a)	covering and removal of coverings of signs,

- (b) location lettering and marking,
- (c) drilling or forming holes and pockets in Structures or lighting columns and casting in bolts, sockets and anchorage assemblies,
- (d) sign plates,
- (e) rivets, bolts nuts and other fastenings,
- (f) purlins and fixings,
- (g) protective treatment,
- (h) notices and recording,
- (i) preparation and supply of record drawings,
- (j) fixing to Structures including attachment systems and additional materials for hinges.

### Passively Safe Traffic Sign Posts

**Definitions** 'Passively safe traffic sign posts' refers to posts compliant with BS EN 12767.

**Units** 5 The unit of measurement shall be:

- i) passively safe traffic sign posts.....linear metre,
- ii) extra over for electrical housing.....number.

**Measurement** 5A The measurement of Passively Safe Traffic Sign Posts shall be the complete installation.

'Cross-sectional area' shall be measured as:

- 1 For triangular and quadrilateral profiles the cross-sectional area shall be the external area of the triangle or quadrilateral.
- 2 For all other profiles the cross-sectional area will be the minimum area of a quadrilateral that the profile may be contained within.

**Itemisation** 5B Separate items shall be provided for Passively Safe Traffic Sign Posts in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Passively safe traffic sign posts.
	2 Extra over passively safe traffic sign posts for electrical housing.
II	1 Circular.
	2 Other profile.
III	1 Planted.
	2 Flanged base.
IV	1 Diameter.
V	1 Cross-sectional area not exceeding 0.05 square metres.

<b>Traffic Sign Posts and Passively Safe Traffic Sign Posts</b>  Item coverage		2	Cross-sectional area exceeding 0.05 but not exceeding 0.10 square metres.
		3	Cross-sectional area exceeding 0.10 square metres but not exceeding 0.15 square metres.
	VI	1	Post length not exceeding 4 metres.
		2	Post length exceeding four metres.
		Note 1: Group IV shall only apply to Group II feature 1.	
		Note 2: Group V shall only apply to Group II features 2.	
		Note 3: Group III to V shall not apply to Group I features 2	
	5C	The items for traffic sign posts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
		(a)	location lettering and marking,
		(b)	electrical equipment, wiring, and connections, excluding supply and control cable,
		(c)	conduit including screwed and threaded connections, bends, tees and other similar features draw wires,
		(d)	backboard, fixing, protective caps, sealing, grommets, spacers, mounting plates and strips,
		(e)	doors, locks and keys,
		(f)	drilling or forming holes and pockets in Structures or foundations,
		(g)	base plates, bolts, sockets and anchorage assemblies,
		(h)	top plates and caps,
		(i)	aligning, fixing and casting into foundations,
		(j)	cutting post to length,
		(k)	bedding and grouting,
		(l)	protective system (as Series 1900 paragraph 4),
		(m)	identification numbers,
		(n)	threading cable through ducts sleeves and conduits,
		(o)	complying with wiring regulations, earthing (other than earth electrodes),
		(p)	protective treatment,
		(q)	notices and recording,
		(r)	preparation and supply of record drawings.

**Traffic Sign Bases**

Units 5D The unit of measurement shall be:

(i) small traffic sign bases .....number,

(ii) large traffic sign bases.....cubic metres,

Measurement 5E The measurement of traffic sign bases shall be the complete installation. Small concrete traffic sign bases shall be those not exceeding 1.2 cubic metres. Large concrete traffic sign bases shall be those exceeding 1.2 cubic metres.

Itemisation 5F Separate items shall be provided for traffic sign bases in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Small concrete traffic sign bases.
	2 Large concrete traffic sign bases.
II	1 Not exceeding 0.3 cubic metres.
	2 Exceeding 0.3 cubic metres but not exceeding 0.6 cubic metres.
	3 Exceeding 0.6 cubic metres but not exceeding 1.2 cubic metres.

Note: Group II shall only apply to Group I feature 1.

**Small and Large Traffic Sign Bases** 5G The items for small and large traffic sign bases shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

(a) excavation of any material (as Series 600 paragraphs 17, 18, 19 and 23),

(b) disposal of material (as Series 600 paragraph 39),

(c) backfilling and compaction,

(d) in situ concrete (as Series 1700 paragraph 5),

(e) formwork (as Series 1700 paragraph 15),

(f) reinforcement (as Series 1700 paragraph 26),

(g) ducts, sleeves, sockets and anchorages in bases,

(h) reinstatement of surfaces,

(i) preparation and supply of record drawings.

**Sign Lighting Units**

Units 5I The unit of measurement shall be:

(i) sign lighting units..... number.

Measurement 5J The measurement for sign lighting units shall be of the complete installation.



		The measurement of traffic sign lighting units shall be the complete installation except for earth electrodes which shall be measured separately under Series 1400 (paragraphs 24 to 27).								
Itemisation	5K	Separate items shall be provided for sign lighting units in accordance with Chapter II paragraphs 3 and 4 and the following: <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Sign lighting units.</td></tr><tr><td>III</td><td>1 Mounting height not exceeding 2 metres.</td></tr><tr><td></td><td>2 Mounting height exceeding 2 metres.</td></tr></table>	Group	Feature	I	1 Sign lighting units.	III	1 Mounting height not exceeding 2 metres.		2 Mounting height exceeding 2 metres.
Group	Feature									
I	1 Sign lighting units.									
III	1 Mounting height not exceeding 2 metres.									
	2 Mounting height exceeding 2 metres.									
<b>Sign Lighting Units</b>	5L	The items for sign lighting units shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:								
Item coverage		(a) electrical equipment, wiring, and connections, excluding supply and control cable, (b) conduit including screwed and threaded connections, bends, tees and other similar features draw wires, (c) threading cable through ducts, sleeves and conduits, (d) complying with wiring regulations, earthing (other than earth electrodes), and inspection, (e) earth block and earthing of sign post and equipment, (f) light spill screens.								
		<b>Sign Bracket Arms</b>								
Units	5M	The unit of measurement shall be: (i) sign bracket arms ..... number.								
Measurement	5N	The measurement for sign bracket arms shall be of the complete installation.								
Itemisation	5O	Separate items shall be provided for sign bracket arms in accordance with Chapter II paragraphs 3 and 4 and the following: <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Sign bracket arms.</td></tr><tr><td>II</td><td>2 Different types.</td></tr></table>	Group	Feature	I	1 Sign bracket arms.	II	2 Different types.		
Group	Feature									
I	1 Sign bracket arms.									
II	2 Different types.									
<b>Sign Bracket Arms</b>	5P	The items for sign bracket arms shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:								
Item coverage		(a) earthing of sign post and equipment, (b) fixtures and fittings, (c) protective system (as Series 1900 paragraph 4),								

- (d) threading cable through ducts sleeves, conduit and the like.

Delete paragraphs 6 to 9 inclusive and replace with the following paragraph 9 inclusive:

### Road Markings

#### Units

- 9 The unit of measurement shall be:
- (i) marking of solid areas .....square metre,
  - (ii) marking of lines.....linear metre,
  - (iii) marking of triangles, circles, circles with enclosing arrows, arrows, kerb markings, symbols, nodes, letters and numerals .....number,
  - (iv) removal of solid areas, lines, triangles, circles, circles with enclosing arrows, arrows, kerb markings, symbols, letters and numerals ..... square metre.

#### Measurement

In paragraph 11 delete the following from the second paragraph:  
'but the length of the mark and gap shall be stated'.

Delete paragraph 16 and substitute the following paragraph 16:

#### Itemisation

- 16 Separate items shall be provided for marking and removal of road markings in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Features	
I	1	Removal of road markings.
	2	Road markings.
II	1	Solid areas.
	2	Continuous lines.
	3	Intermittent lines.
	4	Ancillary lines.
	5	Raised rib lines.
	6	Triangles.
	7	Arrows.
	8	Letters and numerals.
III	1	Different materials.
IV	1	Different widths of lines.
	2	Different lengths of arrows.
	3	Different heights of letters and numerals.
V	1	Different diagram numbers for arrows.
VI	1	Screed
	2	Screed or Spray

	3	Extrusion
VII	1	Reflectorised.
VIII	1	Any line, solid area symbol or letter excluding raised rib lines.
	2	Raised rib lines.

Note 1: Group III to VII shall only apply to Group I feature 2.

Note 2: Group VIII shall only apply to Group I feature 1.

### Road Studs

In paragraph 19 add the following:

- Units
- (ii) road stud cylinders.....number,
  - (iii) replace rubber pads.....number.

In paragraph 21 add the following Group I features and delete Group IV:

Itemisation	Group	Features
	I	2 Road Stud cylinders.
		3 Replace rubber pads.

### Road Studs

In paragraph 22 add the following:

- Item coverage
- (f) surface preparation,
  - (g) cleaning out existing sockets.

### Marker Posts

- Marker Posts**
- 39 In paragraph 39 delete sub paragraph (c) and substitute the following:

- Item coverage
- (c) driving or excavating in acceptable material and driving or excavating in any material (as Series 600 paragraphs 17, 18, 19 and 23).

After paragraph 45 add the following paragraphs 46 to 57 inclusive:

### Passively Safe Flexible Chevrons

Units	46	The unit of measurement shall be:
	(i)	flexible chevrons ..... linear metre.
Measurement	47	Measurement shall be the horizontal length of the complete chevron installation.
Itemisation	48	Separate items shall be provided for flexible chevrons in accordance with Chapter II paragraphs 3 and 4 and the following:
	Group	Feature
	I	1 Passively safe RA2 retroreflective rebound chevrons to BS EN 12767.
	II	1 Different heights of chevron symbol.

- Item coverage 49 (a) traffic signs faces (as this Series paragraph 4),  
 (b) traffic sign posts (as this Series paragraph 5C),  
 (c) traffic sign bases (as this Series paragraph 5G).

### **Location Lettering and Marking of Existing Traffic Signs**

- Units 50 The units of measurement shall be:  
 (i) location lettering and marking of existing traffic signs .....number.

- Measurement 51 The measurement of location lettering and marking of existing traffic signs shall be for the complete installation.  
 The location lettering and marking of traffic signs shall not be separately measured for Sign Faces measured in accordance with this Series, paragraphs 1 to 4.

- Itemisation 52 Separate items shall be provided for location lettering and marking of existing traffic signs in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Location lettering and marking.
II	1 Existing traffic signs.

- Location lettering and marking of Existing Traffic Signs** 53 The item for location lettering and marking of existing traffic signs shall in accordance with the Preamble to Schedule of Rates and Prices General Directions include for:

- Item Coverage (a) preparing surface,  
 (b) removing old number,  
 (c) marking and lettering,  
 (d) recording,  
 (e) reporting.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 1300: ROAD LIGHTING COLUMNS AND BRACKETS, CCTV MASTS AND CANTILEVER MASTS****Road Lighting Columns and Brackets, Wall Mountings, CCTV Masts and Cantilever Masts**

**Definitions** 'Passively Safe Lighting Columns' refers to columns compliant with BS EN 12767.

Delete paragraphs 2 and 3, and substitute the following paragraphs 2 and 3:

**Measurement** 2 The measurement of road lighting columns and brackets, wall mountings, CCTV masts and cantilever masts shall be the complete installation except for:

- (i) earth electrodes which shall be measured separately (under Series 1400 paragraphs 24 to 27),
- (ii) earth equipotential bonding which shall be measured separately (under Series 1400 paragraphs 37 to 40),
- (iii) luminaires which shall be measured separately (under this Series paragraphs 9 to 12).

**Itemisation** 3 Separate items shall be provided for road lighting columns and brackets, wall mountings, CCTV masts and cantilever masts in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 road lighting columns.
	2 CCTV masts
	3 cantilever masts
II	1 Passively safe.
III	1 Not exceeding 10 metres nominal height.
	2 Exceeding 10 metres nominal height.
IV	1 Any types of base.
V	1 Single bracket.

Note 1: Groups III and IV shall only apply to Group I features 1 and 4.

Note 2: Group V shall only apply to Group I feature 1.

### **Remove from Store and Re-erect Road Lighting Columns and Brackets, Wall Mountings, CCTV Masts and Cantilever Masts**

Delete paragraphs 5 to 7 inclusive and replace with the following paragraphs 5 to 20 inclusive:

Units	5	The unit of measurement shall be:	
		(i)	remove from store and re-erect road lighting columns and brackets, wall mountings CCTV masts and cantilever masts..... number.
Measurement	6	The measurement of remove from store and re-erect road lighting columns and brackets, wall mountings, CCTV masts and cantilever masts shall be the complete installation except for:	
		(i)	earth electrodes which shall be measured separately (under Series 1400 paragraphs 24 to 27),
		(ii)	earth equipotential bonding which shall be measured separately (under Series 1400 paragraphs 37 to 40).
Itemisation	7	Separate items shall be provided for remove from store and re-erect road lighting columns and brackets, wall mountings, CCTV masts and cantilever masts in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Remove from store and re-erect road lighting columns and brackets.
		II	1 Any height.
		III	3 Any types of bases.
<b>Remove from Store and Re-Erect Road Lighting Columns and Brackets, Wall Mountings, CCTV Masts and Cantilever Masts</b>	8	The items for remove from store and re-erect road lighting columns, brackets and wall mountings, CCTV masts and cantilever masts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item coverage		(a)	loading, transporting from store, unloading and positioning for re-erection,
		(b)	replacing items damaged during the foregoing operation,
		(c)	modification and new materials,
		(d)	painting existing painted items,
		(e)	road lighting columns and brackets, wall mountings, CCTV masts and cantilever masts (as this Series paragraph 4).

**Luminaires**

Units	9	The units of measurement shall be:		
		(i)	luminaires, ..... number,	
		(ii)	photo-electric control unit ..... number.	
Measurement	10	The measurement of luminaires shall be the complete installation.		
Itemisation	11	Separate items shall be provided for luminaires, in accordance with Chapter II paragraphs 3 and 4 and the following:		
		Group	Feature	
		I	1	Luminaires.
			2	Photo-electric control unit.
		II	2	Different types.
		Note: Group II shall only apply to Group I feature 1.		
Luminaires	12	The items for luminaires, shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a)	electrical equipment, wiring and making connections, excluding network cabling,	
		(b)	remote or integral control gear,	
		(c)	wiring from lighting unit to cut-out,	
		(d)	conduit including draw wires, screwed and threaded connections, bends, tees, and other similar features,	
		(e)	threading cable through ducts sleeves, conduit and the like,	
		(f)	fixings, protective caps, sealing grommets, spacers, mountings, plates and strips,	
		(g)	notices, recording and preparation and supply of record drawings,	
		(h)	complying with wiring regulations, earthing (other than earth electrodes),	
		(i)	complying with required lighting levels of all Scheme designs.	
Photo-electric control Unit	13	The items for photo-electric control units shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		

Item coverage	(a)	electrical equipment, wiring and making connections, excluding network cabling,
	(b)	remote or integral control gear,
	(c)	wiring from lighting unit, conduit including draw wires, screwed and threaded connections, bends, tees, and other similar features,
	(d)	threading cable through ducts sleeves, conduit and the like,
	(e)	fixings, protective caps, sealing grommets, spacers, mountings, plates and strips,
	(f)	recording and preparation and supply of record drawings,
	(g)	complying with wiring regulations, earthing (other than earth electrodes).

**Replace Lamps**

Units	13	The units of measurement shall be:			
	A	(i) replace lamps, ..... number.			
Measurement	14	Replacement of lamps shall only be measured for lamp outages; provided the outage has occurred prior to the due date for bulk lamp change and the outage occurs within a 30mph zone.			
Itemisation	15	Separate items shall be provided for replace lamps, in accordance with Chapter II paragraphs 3 and 4 and the following:			
		Group	Feature		
		I	1	Replace	high-intensity discharge lamp within 30mph zone.
<b>Replace Lamps</b>	16	The items for replace lamps, shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:			
Item coverage		(a) removal of existing lamp,			
		(b) disposal of material.			

**Marking and lettering of Existing Road Lighting Columns**

Units	17	The units of measurement shall be:
	(i)	marking and lettering of existing road lighting columns .....number.
Measurement	18	<p>The measurement of marking and lettering of existing road lighting columns shall be for the complete installation.</p> <p>Marking and lettering of lighting columns shall not be separately measured for road lighting columns measured in accordance with this Series, paragraphs 1 to 4.</p>



Itemisation	19	Separate items shall be provided for marking and lettering of existing road lighting columns in accordance with Chapter II paragraphs 3 and 4 and the following:				
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Marking and lettering existing road lighting columns.</td></tr></table>	Group	Feature	I	1 Marking and lettering existing road lighting columns.
Group	Feature					
I	1 Marking and lettering existing road lighting columns.					
<b>Marking and lettering of Existing Road Lighting Columns</b>	20	The item for numbering of existing road lighting columns shall in accordance with the Preamble to Schedule of Rates and Prices General Directions include for:				
Item Coverage		<ul style="list-style-type: none"><li>(a) preparing surface (as Series 5000 paragraph 5),</li><li>(b) removing old number,</li><li>(c) making good protective system (as Series 5000 paragraph 6),</li><li>(d) marking and lettering,</li><li>(e) recording,</li><li>(f) reporting,</li><li>(g) conspicuity banding.</li></ul>				

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 1400: ELECTRICAL WORK FOR ROAD LIGHTING AND TRAFFIC SIGNS****Locating Buried Road Lighting and Traffic Signs Cable**

Delete paragraphs 1 to 4 inclusive.

**Trench for Cable or Duct**

Itemisation 7 In paragraph 7 delete Groups I, II, III and IV and replace with the following:

Group	Feature
I	1 Trench for cable or duct.
II	1 Not exceeding 500mm wide.
	2 Exceeding 500mm but not exceeding 1000mm wide.
III	1 Trench depth not exceeding 600mm.
	2 Trench depth exceeding 600mm but not exceeding 900mm and so on in steps of 300mm.

**Cable and Duct**

Cable and Duct 9 In paragraph 9 delete sub paragraph (g) and substitute the following:

Item coverage (g) scheduled and unscheduled joints.

**Chambers**

Itemisation 31 In paragraph 31 delete Group II and substitute the following:

Group	Feature
II	1 Not exceeding 0.30 square metres internal area.

After paragraph 35 add the following paragraphs 36 to 47 inclusive:

**Disconnection of Cables**

Units 36 The unit of measurement shall be:  
(i) disconnection of cables ..... number.

**Measurement** 37 The measurement for disconnection of cables from equipment shall be for the complete operation.

Disconnection of cables shall not be separately measured where removal of equipment taken up or down and set aside for re-use or remove to store or licensed facility measured in accordance with Series 200.

**Itemisation** 38 Separate items shall be provided for disconnection of cables in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Disconnection of cables.
II	1 Permanent.
	2 Temporary.
III	1 Different sizes.
IV	1 Different types.

**Disconnection of Cables** 39 The items for disconnection of cables shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

**Item coverage**

- (a) excavation of acceptable material (as Series 600 paragraphs 17 and 18),
- (b) excavation of unacceptable material (as Series 600 paragraph 19),
- (c) excavation in Hard Material (as Series 600 paragraph 23),
- (d) backfilling, compaction and making good of the surface,
- (e) disposal of materials (as Series 600 paragraph 39),
- (f) locating, working around and supporting pipes, cables, services, apparatus and other similar features,
- (g) isolating cables at feeder pillar,
- (h) disconnecting cables from termination unit and withdrawing of cable from equipment,
- (i) temporary sealing of cable ends,
- (j) permanent sealing of cable ends,
- (k) cleaning trimming, taping, sealing and capping including clamps,
- (l) complying with wiring regulations,
- (m) reconnect at feeder pillar,

- (n) loading, transporting from store unloading and positioning of materials for erection,
- (o) replacing items damaged during operations in (l) above,
- (p) take up or down termination unit and remove to licensed facility (as Series 200 paragraph 11),
- (q) providing new Site records and updating existing Site records,
- (r) reports,
- (s) reinstatement of surfaces.

### **Equipotential Bonding**

Units	40	The units of measurement shall be:	
		(i)	earth pits and rods ..... number,
		(ii)	additional earth conductors ..... linear metre.
Measurement	41	The measurement of earth conductors shall be the summation of the distance along the centre-line of the route between the earth pit and the column earth block.	
		The measurement of earth conductors shall include the terminations to the earth rods and column earth blocks.	
Itemisation	42	Separate items shall be provided for equipotential bonding in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Equipotential bonding.
		II	1 Earth pits and rods.
			2 Additional earth conductors.
<b>Equipotential Bonding</b>	43	The items for equipotential bonding shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	

Item coverage	(a)	trench for cable or duct (as this Series, paragraph 8),
	(b)	intermediate supports and fixing devices where cables leave trench and prior to entry into equipment,
	(c)	twisting and snaking,
	(d)	preparing, stripping and cleaning ends,
	(e)	glands and clamps,
	(f)	driving,
	(g)	clamps, cables and making connections,
	(h)	covers frames seating and bedding,
	(i)	earth rods including pressure plates, glands and clamps,
	(j)	conduit including draw wires, all purpose made screwed and threaded connections, bends, tees and other similar features,
	(k)	threading cable through ducts, sleeves, conduit and the like,
	(l)	conductor cable including preparing, stripping and cleaning ends and connections,
	(m)	markers, notices, recording and reports,
	(n)	preparation and supply of record drawings.

#### **Temporary Overhead Feed to Road Lighting Units**

Units	44	The unit of measurement shall be:
	(i)	temporary overhead feed to road lighting units ..... linear metre.
Measurement	45	The measurement of temporary overhead feed to road lighting units shall be the distance between supports.
Itemisation	46	Separate items shall be provided for temporary overhead feed to road lighting units in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Temporary overhead feed to road lighting units.
II	1 Not exceeding 10 metres nominal height.

		2	10 metres to 15 metres nominal height.
		3	Exceeding 15 metres nominal height.
<b>Temporary Overhead Feed to Road Lighting Units</b>	47	The items for temporary overhead feed to road lighting units shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item coverage		(a)	fixing brackets and supports,
		(b)	catenary wire,
		(c)	replacement of faulty fuses,
		(d)	fit wiring,
		(e)	connectors, glands, clamps, sleeves, cleats, tags, terminal blocks,
		(f)	connecting conductors to terminals, removing knock-outs and drilling backboard, insulating ends of unused conductors, bonding, numbering and lettering, removal of temporary supply,
		(g)	markers,
		(h)	complying with wiring regulations, earthing (other than earth electrodes),
		(i)	Site records and reports,
		(j)	disconnection of cables (as this Series paragraph 39).

## SCOTTISH MINISTERS' REQUIREMENTS

### SCHEDULE 2 PART 1

#### METHOD OF MEASUREMENT

#### SERIES 1500: MOTORWAY COMMUNICATIONS

##### Loop Detector Installations

Measurement	Delete paragraph 29 and replace with the following:	
	29	The measurement of loop detector installations shall be the complete installation from the joint with the feeder cable in the communications cabinet, chamber, box or pit within which the loop installation or feeder cable is terminated.
In paragraph 31 add the following:		
<b>Loop Detector Installations</b>		
Item coverage	(r)	joints or terminations to feeder cable within communications cabinet, chamber, box or pit.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 1700: STRUCTURAL CONCRETE**

	<b>Precast Concrete</b>		
Itemisation	9	In paragraph 9 add the following Group V:	
	Group	Feature	
	V	1	Cross sectional area not exceeding 0.025m <sup>2</sup> .
		2	Cross sectional area exceeding 0.025m <sup>2</sup> but not exceeding 0.05m <sup>2</sup> .
		3	Cross sectional area exceeding 0.05m <sup>2</sup> but not exceeding 0.10m <sup>2</sup> .
	Note 1: Group III shall only apply to Group I features 1 and 3.		
	Note 2: Group V shall only apply to Group I feature 2.		
	27	In paragraph 27 add the following	
Item coverage	(c)	bending dowel bars.	
	After paragraph 39 add the following new paragraphs 40 to 49 inclusive:		
	<b>Structural Concrete Repairs</b>		
Units	40	The units of measurement shall be:	
	(i)	structural concrete repairs using normal flow concrete and high flow repair concrete, structural concrete repairs using proprietary sprayed concrete ..... cubic metre,	
	(ii)	structural concrete repairs using proprietary repair mortars ..... litre,	
	(iii)	crack injection using proprietary resins .....litre.	
Measurement	41	Measurement of structural concrete repairs shall be the volume of the void to be filled with repair mortar resin or concrete.	
Itemisation	42	Separate items shall be provided for structural concrete repairs in accordance with Chapter II paragraphs 3 and 4 and the following:	
	Group	Feature	
	I	1	Structural concrete repairs.
		2	Crack injection.
	II	1	Using proprietary repair mortars.



2	Using normal flow concrete.
3	Using high flow concrete.
4	Using proprietary sprayed concrete.
5	Using proprietary resins.

## Structural Concrete Repairs

### Item coverage

43 The items for structural concrete repairs shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

- (a) saw cutting,
- (b) removal of defective concrete,
- (c) breaking out of sound concrete,
- (d) disposal of material (as Series 600 paragraph 39),
- (e) protective sheeting or shielding against debris and or spray and its removal,
- (f) blast cleaning reinforcement,
- (g) preparation of concrete surfaces to receive concrete repair materials including protecting untreated areas,
- (h) concrete repair materials (as Series 1700 paragraph 5) including sealants, priming and bonding agents,
- (i) finishing,
- (j) mixing, placing in or against any surface, curing and protection of concrete repair materials,
- (k) falls, cambers and shaped profiles
- (l) procedure trials,
- (m) sample panels,
- (n) masking adjacent areas,
- (o) removal of rust and chloride deposits from reinforcement,
- (p) production tests,
- (q) water supply.

### Formwork for Concrete Repairs

44 The units, measurement, itemisation and item coverage for formwork for concrete repairs shall be as this Series paragraphs 11-21 inclusive.

### Steel Reinforcement for Concrete Repairs

45 The units, measurement, itemisation and item coverage for steel reinforcement for concrete repairs shall be as this Series, paragraphs 22 to 27 inclusive.

**Backfilling to Structures with Foamed Concrete**

Units 46 The units of measurement shall be:

(i) backfilling to Structures with foamed concrete .... cubic metre.

Measurement 47 The Measurement of backfilling to Structures with foamed concrete will be the volume of the void to be filled.

Itemisation 48 Separate items shall be provided for backfilling to Structures with foamed concrete in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Backfilling to Structures with foamed concrete.

**Backfilling to Structures with Foamed Concrete** 49 The items for the backfilling to Structures with foamed concrete shall in accordance with the Preambles to Schedule of Rates and Prices General Direction include for:

Item Coverage (a) in situ concrete (as this Series paragraph 5),

(b) formwork (as this Series paragraph 15).

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 1800: STEELWORK FOR STRUCTURES****Butt weld, fillet weld and other defect repairs to steelwork**

After paragraph 22 add the following paragraphs 23 to 56 inclusive:

Units	23	<p>The units of measurement for butt weld, fillet weld and other defect repairs to steelwork shall be:</p> <p>i) defect removal placement of new weld (up to and including lengths up to 250mm)..... number ,</p> <p>ii) defect removal placement of new weld (lengths over 250mm)..... linear metre</p>														
Measurement	24	<p>The measurement of fillet weld and other defect repairs shall be measured as the nominal lengths including any addition to cater for existing root gaps.</p> <p>Fillet welds: the repair shall be in two parts; removal of defective weld or Defect and placement of new weld. The removal of defective weld or Defect and the placement of weld shall be measured separately and once only.</p> <p>Lengths of defects and replaced welds shall be measured to the nearest 10mm.</p>														
Itemisation	25	<p>Separate items shall be provided for butt weld, fillet weld and other defect repairs in accordance with Chapter II paragraphs 3 and 4 and the following:</p> <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Defect repair.</td></tr><tr><td>II</td><td>1 Butt weld.</td></tr><tr><td></td><td>2 Fillet weld.</td></tr><tr><td></td><td>3 Other defect.</td></tr><tr><td>III</td><td>1 Defect removal</td></tr><tr><td></td><td>2 Placement of weld</td></tr></table>	Group	Feature	I	1 Defect repair.	II	1 Butt weld.		2 Fillet weld.		3 Other defect.	III	1 Defect removal		2 Placement of weld
Group	Feature															
I	1 Defect repair.															
II	1 Butt weld.															
	2 Fillet weld.															
	3 Other defect.															
III	1 Defect removal															
	2 Placement of weld															
Butt weld, fillet weld and other	26	<p>The items for defect repairs shall be in accordance with the Preambles to Schedule of Rates and Prices General Directions include in:</p>														

## defect Repairs to Steelwork

Item coverage	(a)	gaining access to existing structure surfaces, working in confined spaces, and including all necessary temporary lighting and ventilation,
	(b)	provision of qualified inspection personnel including the submission of reports,
	(c)	approval of pre-qualified welding procedural trials and welders,
	(d)	approval of pre-qualified welding, flame cutting and grinding procedures,
	(e)	provision of pre-heat and shelters for welding,
	(f)	provision of all plant, equipment and consumables for grinding, welding and inspection,
	(g)	all non-destructive testing including that to existing steelwork to demonstrate removal of defect, new welds,
	(h)	all measures necessary to protect the existing structure against damage,
	(i)	the removal of defect and the placement of weld,
	(j)	reinstatement of corrosion protection (as Series 5000 paragraph 6),
	(j)	dressing existing welds within 100mm of removed or placed weld to blend into repaired area,
	(k)	disposal or storage of removed steelwork (Temporary Attachments).

### Welding and Flame Cutting Procedure Trials and Application Trials

Units	27	The unit measurement shall be:
	(i)	procedure trials, application trials ..... number.
Measurement	28	The measurement of procedure trials and application trials shall be the number of trials ordered and accepted by the Engineer as giving satisfactory results.
Itemisation	29	Separate items shall be provided for procedure trials and application trials in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Procedure trial at place of fabrication.
	2 Procedure trial on Site.
	3 Application trial on Site.
II	1 Welding.

		2	Flame cutting.
		3	Shearing.
<b>Procedure trials</b>	30	The items for procedure trials shall in accordance with the shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item coverage		(a)	tensile tests, bend tests, impact tests and macro examination tests,
		(b)	fillet weld fracture tests and macro examination tests,
		(c)	tests to determine the Vickers hardness value,
		(d)	radiographic, ultrasonic and MPI of welds as appropriate,
		(e)	taking measurements and observations and recording and supplying one copy of the record to the Engineer,
		(f)	preparation of existing steel removed from the works for a trial,
		(g)	trials ordered by the Engineer and not accepted as satisfactory.
<b>Application Trials</b>	31	The items for application trials shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item coverage		a)	macro examination tests,
		(b)	tests to determine the Vickers hardness value,
		(c)	taking measurements and observations and recording and supplying one copy of the record to the Engineer,
		(d)	preparation of existing steel removed from the works for a trial,
		(e)	trials ordered by the Engineer and not accepted as satisfactory.
<b>Other Trials and Demonstrations</b>			
Units	32	The unit measurement shall be:	
		(i)	carry out trial, demonstration, etc. .... number.
Measurement	33	The measurement of other trials shall be the number of trials ordered and accepted by the Engineer as giving satisfactory results.	
Itemisation	34	Separate items shall be provided for other trials in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Trial or demonstration as specified for each activity.

**Other trials and demonstrations**

- 35 The items for other trials and demonstrations shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
- Item coverage
- (a) simulating the most unfavourable conditions liable to occur in practice with the most unfavourable combination of variables,
  - (b) all necessary equipment, temporary works, access staging and shelters (if appropriate) for the performance of the trial,
  - (c) all necessary personnel, equipment and facilities to carry out readings, measurements and observations during the trial, together with any destructive and non-destructive tests ordered by the Overseeing Organisation and supplying one copy of the record of each test to the Engineer,
  - (d) preparation of existing material for the trial,
  - (e) trials or parts of trials and tests or parts of tests ordered by the Engineer and not accepted as satisfactory.

**Steelwork Inspection on Forth Road Bridge**

## Units

- 36 The units of measurement of Steelwork Inspection on Forth Road Bridge shall be:
- i) visual inspection of steel deck.....square metre,
  - ii) magnetic particle inspection ...linear metre,
  - iii) ultrasonic inspection .....linear metre,

## Measurement

- 37 Measurement of steelwork inspection shall be for the inspection of the deck plate, deck plate welds and deck to trough welds on Forth Road Bridge by appropriately qualified and experienced persons.

## Itemisation

- 38 Separate items shall be provided for steelwork inspection on Forth Road Bridge in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 visual inspection.
	2 magnetic particle inspection.
	3 ultrasonic inspection
II	1 steel deck plate
	2 fillet weld
	3 butt weld

**Steelwork Inspection on Forth Road Bridge**

- 39 The items for steelwork inspection on Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

## Item coverage

- a) Undertaking the inspections using suitably qualified and experienced persons;
- b) The use of properly calibrated and certified equipment;
- c) Proposing and agreeing with the Overseeing Organisation a suitable method of locating and recording defects found;
- d) Marking out defects;
- e) Reporting of results of inspection to the Overseeing Organisation.

### Edge Trimmer Repair and Replacement

**Definitions** 40 Edge trimmers repairs are where parts of the existing edge trimmer are removed and new sections of edge trimmer are inserted. If more than three metres of any one edge trimmer require replacement then it shall be measured under edge trimmer replacement.

Edge trimmer replacement is where an entire existing edge trimmer is removed and a new trimmer is erected in its place.

Edge trimmer stiffener repairs are stiffeners inserted onto an existing edge trimmer and include replacement of existing stiffeners.

**Units** 41 The units of measurement of Edge Trimmer Repair and Replacement shall be:

- i) edge trimmer stiffener repairs.....number,
- ii) edge trimmers repairs...linear metre,
- iii) edge trimmer replacement .....number.

**Measurement** 42 Edge trimmer replacement shall be measured as the number of edge trimmers replaced, measured only once.

Edge trimmer repairs shall be measured as the number of linear metres of edge trimmer replaced rounded up to the nearest metre, measured once only.

Edge trimmer stiffener repairs shall be the number of edge trimmer stiffeners repaired or replaced.

**Itemisation** 43 Separate items shall be provided for Edge Trimmer Repair and Replacement in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Edge trimmer repair.
	2 Edge trimmer replacement.
	3 Edge trimmer stiffener repair

**Edge Trimmer  
Repair and  
Replacement**

Item coverage

- 44 The items for Edge Trimmer Repair and Replacement shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
- (a) fabrication (as this series, paragraph 6),
  - (b) erection (as this series, paragraph 9),
  - (c) breaking out existing bituminous and concrete materials,
  - (d) removal of existing edge trimmers or lengths of edge trimmers and preparing existing surfaces to receive new edge trimmers or new lengths of edge trimmers,
  - (e) on site bending and/or welding edge trimmers to suit the profile of the deck,
  - (f) non-destructive testing of welds (g) application trials to demonstrate repair methods including further application when trials not carried out successfully,
  - (h) inspections of infill material and repairs of same until adjacent permanent works complete,
  - (i) phasing of edge trimmer work with other work,
  - (j) traffic management,
  - (k) all access required,
  - (l) disposal of material,
  - (m) protective coating as series 1900 Paragraph 4,
  - (n) surface preparation and protective coating as Series 5000 paragraph 6.

**Replacement of King Post on Forth Road Bridge**

- Units 45 The units of measurement shall be:
- (i) replacement of king post .....number.
- Measurement 46 Measurement of replacement of king post on Forth Road Bridge shall be the replacement of the complete unit.
- Itemisation 47 Separate items shall be provided for replacement of king post on Forth Road Bridge in accordance with Chapter II paragraphs 3 and 4 and the following:
- | Group | Feature                     |
|-------|-----------------------------|
| I     | 1 Replacement of king post. |
- Replacement of King Post 48 The items for replacement of king post on Forth Road Bridge shall in accordance with the Preambles to



		Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) all access required,</li> <li>(b) removal of the existing king post,</li> <li>(c) disposal of the existing king post,</li> <li>(d) fabrication of the replacement king post as this series paragraph 6,</li> <li>(e) erection of the replacement king post as this series paragraph 9,</li> <li>(f) protective coating as series 1900 paragraph 4.</li> </ul>

### **Tension Check of Forth Road Bridge Cable Band Bolts**

Units	49	The units of measurement shall be:		
		(i)	Tension check of Forth Road Bridge cable band bolts.....No	
Measurement	50	Measurement of tension check of cable band bolts shall be checking and if necessary adjusting the tension in all the bolts in each cable band.		
Itemisation	51	Separate items shall be provided for tension check of Forth Road Bridge cable band bolts in accordance with Chapter II paragraphs 3 and 4 and the following:		
		Group	Feature	
		I	1	Tension check of cable band bolts
Tension check of Forth Road Bridge Cable Band Bolts	52	The items for tension check of Forth Road Bridge cable band bolts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a)	all access required,	
		(b)	all tools and equipment necessary to check and adjust the tension in the bolts,	
		(c)	measuring the tension in all bolts in each cable band,	
		(d)	adjusting the tension in all bolts in each cable band to the required tension,	
		(e)	recording and reporting results.	
		<b>Replacement of Packs between the Half Joints in the Longitudinal Stringers on the Forth Road Bridge</b>		
Units	53	The units of measurement shall be:		
		(i)	Replacement of packs between half joints in the longitudinal stringers on the Forth Road Bridge .....No	

Measurement	54	Measurement of replacement of packs between the half joints in the longitudinal stringers on the Forth Road Bridge shall be the replacement of all the packs within the half joint.	
Itemisation	55	Separate items shall be provided for replacement of the packs between the half joints in the longitudinal stringers on the Forth Road Bridge in accordance with Chapter II Paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Replacement of packs in main span 2 Replacement of packs in side span
		II	1 during night shift 2 during day shift
Replacement of packs between the half joint in the longitudinal stringers	56	The items for replacement of packs between the half joints of the longitudinal stringers on the Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item coverage		<ul style="list-style-type: none"><li>a all access required,</li><li>b removal of existing packs including breaking out existing welds,</li><li>c disposal of existing packs,</li><li>d fabrication of the packs as this series Paragraph 6,</li><li>e installation of the existing packs as this series Paragraph 9 including adjusting pack height as required,</li><li>f all wedges, jacks, jacking stools and plant required for replacement of packs including installation and removal,</li><li>g preparation of surfaces to receive new packs,</li><li>h drilling holes in existing steelwork,</li><li>i checking deck levels before and during replacement of packs,</li><li>j recording loads in jacks and measurement of deck levels and gaps,</li><li>k loosening and re-tightening billets</li><li>l surface preparation and protective coating as series 5000, Paragraphs 5 and 6.</li></ul>	

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 2000: WATERPROOFING FOR STRUCTURES****Waterproofing**

Itemisation	3	In paragraph 3 delete Group III.
Item coverage		Add the following sub-paragraphs to paragraph 4:
		(p) application of aggregate (Flintag or equivalent),
		(q) provision of at least 3 number sample boards, each 800mm x 800mm, on which the minimum, average and maximum application rate of aggregate is applied. These boards to be available on site for use by the Overseeing Organisation's site supervisory staff,
		(r) removal of excess aggregate,
		(s) application of tack coat.

**Removal of Existing Waterproofing**

Add the following to paragraph 10:

Measurement	10	Structural repairs required to the existing deck shall be measured in accordance with Series 1700 (Structural Concrete).
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Itemisation	11	In paragraph 11 delete Group II and substitute the following:
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Group	Feature
II	1 Different types.

**Removal of Existing Waterproofing**

In paragraph 12, delete (d) and substitute the following:

Item coverage	12	(d) additional preparation of bridge decks to receive new waterproofing.
		Add the following sub-paragraphs to paragraph 12:
		(h) removal of residual bituminous material attached to waterproofing membrane and checking the integrity of the bituminous materials that remains attached to the waterproofing to ensure it is acceptable to be overlaid with mastic asphalt,
		(i) maintaining water supply to water jetting equipment;

- (j) dealing with water from the water jetting process and disposing in accordance with the requirements of Scottish Environmental Protection Agency,
- (k) inspecting, cutting out and repair of areas of damaged existing waterproofing.

### Repairs to Existing Waterproofing

Units	13	The units of measurement shall be:				
		(i) repairs to existing waterproofing .....square metre.				
Measurement	14	Measurement of repairs to existing waterproofing shall be the area of existing waterproofing to be repaired.				
Itemisation	15	Separate items shall be provided for repairs to existing waterproofing in accordance with Chapter II paragraphs 3 and 4 and the following:				
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Repairs to existing waterproofing.</td></tr></table>	Group	Feature	I	1 Repairs to existing waterproofing.
Group	Feature					
I	1 Repairs to existing waterproofing.					
<b>Repairs to Existing Waterproofing</b>	16	The items for repairs to existing waterproofing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:				
Item coverage		<ul style="list-style-type: none"><li>(a) marking out the areas of waterproofing to be repaired,</li><li>(b) removal of surfacing,</li><li>(c) removal of protective layer,</li><li>(d) removal of existing waterproofing,</li><li>(e) removal of primer,</li><li>(f) disposal of materials (as Series 600 paragraph 39),</li><li>(g) making good edges of repair,</li><li>(h) preparation of existing surfaces to receive new waterproofing,</li><li>(i) measures to prevent damage to existing surfaces,</li><li>(j) trials and approval tests,</li><li>(k) removal of residual bituminous material attached to waterproofing membrane and checking the integrity of the bituminous materials that remains attached to the waterproofing to ensure it is acceptable to be overlaid with mastic asphalt,</li><li>(l) maintaining water supply to water jetting equipment,</li><li>(m) dealing with water from the water jetting process and disposing in accordance with the requirements of Scottish Environmental Protection Agency,</li><li>(n) new waterproofing ( as Series 2000 paragraph 4).</li></ul>				

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 2300: BRIDGE EXPANSION JOINTS AND SEALING OF GAPS****Bridge Deck Expansion Joints****Definition**

- 1 Add the following to paragraph 1:
- Types of replacement bridge expansion joints and abbreviations used in the descriptions in the Schedule of Rates and Prices are as follows:

Type	Abbreviation	Description
1	BJUCS	Buried joint under continuous surfacing.
2	APJ	Asphaltic plug joint.
3	NJWPS	Nosing joint with poured sealant.
4	NWPCS	Nosing with preformed compression seal.
5	RE	Reinforced elastomeric.
6	EIMR	Elastomeric in metal runners.

In paragraph 2 add the following:

- Units                      2    (ii) replacement bridge deck expansion joints ..... linear metre.

In paragraph 3 add the following:

- Measurement            3    The measurement of replacement bridge deck expansion joints shall be the complete installation measured along the centre-line of the joint.

Alterations and or repairs to the Structure excluding any damage caused by the removal of the existing bridge expansion joint, shall be measured under Series 1700 concrete repairs.

Delete paragraph 4 and substitute the following:

- Itemisation              4    Separate items shall be provided for replacement of bridge expansion joints in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Bridge deck expansion joints.
	2 Replacement bridge expansion joints.
II	1 Different types or materials.

III	1	Different lengths.
IV	1	Different gap widths.
V	1	Movement range not exceeding 30mm.
	2	Movement range exceeding 30mm but not exceeding 100mm.
	3	Movement range exceeding 100mm but not exceeding 200mm.
VI	1	Cross sectional area not exceeding 0.05 square metres.
	2	Cross sectional area exceeding 0.05 square metres but not exceeding 0.10 square metres.
	3	Cross sectional area exceeding 0.10 square metres but not exceeding 0.15 square metres.
	4	Cross sectional area exceeding 0.15 square metres but not exceeding 0.20 square metres.

Note 1: Group III feature 1 and Group IV feature 1 shall only apply to Group 1 feature 1.

Note 2: Groups V and VI shall only apply to Group 1 feature 2.

Note 3: Groups V shall not apply to asphalt plug joints (APJ).

Note 4: Groups VI shall only apply to asphalt plug joints (APJ).

### Bridge Expansion Joints

#### Item coverage

- 5 In paragraph 5 add the following:
- (q) removing existing bridge expansion joints including sealants, metalwork and joint filler, sub-surface drainage, below joint drainage and in situ nosings,
  - (r) cutting out and making good existing pavements, footways, kerbs, structures and the like,
  - (s) making good any damage caused by the foregoing operations,
  - (t) disposal of material (as Series 600 paragraph 39),
  - (u) removal and renewal of broken studs,
  - (v) additional bedding and nosing material.

After paragraph 5 add the following paragraph 5A:

### Replacement Bridge Deck Expansion Joints

#### Item coverage

- 5A The items for replacement bridge deck expansion joints shall in accordance with the Preambles to Schedule of Rates and Prices General Direction include for:

- (a) as this Series paragraph 5.

### Sealing of Gaps

In paragraph 6 add the following:

- Delete paragraph 7 to 10 and substitute the following:

Joint filler and joint sealant to bridge deck expansion joints shall not be separately measured.

Group	Feature
I	1 Joint filler.
	2 Joint sealant.
	3 Water bar or water stop.
	4 Renew joint filler.
	5 Renew joint sealant.
	6 Renew water bar or water stop.
II	1 Different types or materials.
III	1 Different sizes.
IV	1 Different thicknesses.
V	1 Not exceeding 250mm <sup>2</sup> cross sectional area.
	2 Exceeding 250mm <sup>2</sup> but not exceeding 500mm <sup>2</sup> cross sectional area.
	3 Exceeding 500mm <sup>2</sup> but not exceeding 750mm <sup>2</sup> cross sectional area.
VI	1 Not exceeding 25mm thick.
	2 Exceeding 25mm but not exceeding 50mm thick.

Note 4: Group VI shall only apply to Group I features 2 and 5.

<b>Joint Filler and Renew Joint Filler</b>	9	The items for joint filler and renew joint filler shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) cutting and shaping,</li> <li>(b) preparing, cleaning and priming surfaces,</li> <li>(c) adhesives and the like,</li> <li>(d) applying, inserting and casting in,</li> <li>(e) compressible strip,</li> <li>(f) masking and protection,</li> <li>(g) complying with temperature constraints,</li> <li>(h) removal of existing sealants, fillers, metalwork, and backing strips,</li> <li>(i) making good any damage caused by the foregoing operations,</li> <li>(j) disposal of material (as Series 600 paragraph 39).</li> </ul>
<b>Joint Sealant and Renew Joint Sealants</b>	10	The items for joint sealant and renew joint sealants shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) preparing and cleaning surfaces,</li> <li>(b) priming the surface of the joint,</li> <li>(c) compressible strip,</li> <li>(d) masking and protection,</li> <li>(e) complying with temperature constraints,</li> <li>(f) removal of existing sealants, metalwork, and backing strips,</li> <li>(g) making good any damage caused by the foregoing operations,</li> <li>(h) disposal of material (as Series 600 paragraph 39).</li> </ul>



**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 2400: BRICKWORK, BLOCKWORK AND STONEMASONRY****Brickwork**

Itemisation      3      In paragraph 3 delete Features 1 to 4 from Group IX and replace with Feature 1 as follows:

Group	Feature
IX	1      In walls and in facework to concrete.

**Blockwork and Stonemasonry**

Itemisation      7      In paragraph 7 delete Features 1 to 4 from Group VIII and replace with Features 1 and 2 as follows:

Group	Feature
VIII	1      In walls and in facework to concrete.
	2      In arches.

**Remove from Store and Relay Brickwork, Blockwork or Stonemasonry**

Itemisation      11      In paragraph 11 delete Features 1 to 4 from Group IX and replace with Features 1 to 2 as follows:

Group	Feature
IX	1      In walls or in facework to concrete. 2 In arches.

**Remove from Store and Relay Brickwork, Blockwork or Stonemasonry**

12      In paragraph 12 add the following:

Item coverage      (f)      retrieval of displaced materials from their position after displacement (excluding fees to Network Rail).

After paragraph 12 add the following paragraphs 13 to 20 inclusive:

**Rebedding of Precast Concrete Copings**

Units      13      The unit of measurement shall be:

- (i)      rebedding of precast concrete coping ..... linear metre.

Measurement      14      The measurement of rebedding of precast concrete copings shall be the length of the work required.

- Itemisation 15 Separate items shall be provided for rebedding of precast concrete copings in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Rebedding precast concrete coping.

**Rebedding  
Precast  
Concrete  
Coping**

- 16 The items for rebedding precast concrete copings shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) take up or down and set aside for re-use or remove to store or licensed facility (as Series 200 paragraph 11),
- (b) loading, transporting from store unloading and positioning for rebedding,
- (c) removal of old mortar,
- (d) bedding in any mortar.

**Repointing**

Units

- 17 The units of measurement shall be:
- (i) repointing in walls, arches and in facework to concrete and arches ..... square metre,
  - (ii) repointing in string courses and copings ..... linear metre.

Measurement

- 18 The measurement of repointing in walls, arches and in facework to concrete and in arches shall be the superficial area of brickwork, blockwork and stonework required by this Contract. No deductions shall be made for openings of 0.10 square metres or less.

The measurement of repointing in string courses and copings shall be the length of the joints in the brickwork, blockwork and stonework required by this Contract.

All items in this Series shall be deemed to cover alteration and repair work as well as new work.

Itemisation

- 19 Separate items shall be provided for repointing in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Brickwork or blockwork.
	2 Stonework.
II	1 Any Different types of mortar.
III	1 In walls, arches and in facework to concrete and in arches.
	2 In string courses and in copings.
IV	1 Not exceeding 300mm girth.
	2 Exceeding 300mm girth.

Note: Group IV shall only apply to Group III feature 2.

<b>Repointing</b>	20	The items for repointing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"><li>(a) sample panels,</li><li>(b) grinding out or raking out joints,</li><li>(c) removing loose material and washing clean,</li><li>(d) curing and protection,</li><li>(e) admixtures and additives,</li><li>(f) disposal of material (as Series 600 paragraph 39),</li><li>(g) multiple operations for deep cavities,</li><li>(h) replacing items damaged during the foregoing operations.</li></ul>

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 3000: LANDSCAPE AND ECOLOGY****Ground Preparation and Cultivation****Definitions**

Delete paragraph 1 and replace with the following:

- 1 Landscape and ecology work in this Series shall comprise new work and maintenance of existing areas that are outwith the items in Series 6100 and 6800.

**Itemisation**

In paragraph 4 delete Group II and substitute the following:

Group	Feature
II	1 Any density of cover.

**Planting****Itemisation**

In paragraph 12 delete Groups IV and Group V and replace with the following:

Group	Feature
IV	1 Transplanted.

**Mulching****Itemisation**

In paragraph 15 delete Group VI.

**Weed Control****Units**

In paragraph 17 delete (i) and (ii) and replace with the following:

- (i) weed control ..... square metre.

**Measurement**

Delete paragraph 18 and substitute the following:

- 18 The measurement of weed control shall be the plan area.

**Itemisation**

In paragraph 19 delete Groups II, III, IV and V and replace with the following:

Group	Feature
II	1 Different types of herbicide.

**Maintenance of Established Trees and Shrubs**

In paragraph 21 add new paragraph (iv):

- (iv) removal of branches.....number.

**Measurement**

Add to paragraph 22 the following:

The girth of trees for felling shall be measured at a height of 1 metre above ground level.

The girth of branches to be removed shall be measured at the severance point and at right angles to the branch.

	Removal of branches not exceeding 300mm girth will be deemed to be tree surgery and measured under the applicable items for tree surgery.																
	Where five or more branches exceeding 300mm girth are to be removed from a single tree this will be deemed to be tree surgery and will be measured under the applicable items for tree surgery.																
Itemisation	In paragraph 23 Group I add the following:																
	<table> <tr> <th>Group</th><th>Feature</th></tr> <tr> <td>I</td><td>9 Removal of branches.</td></tr> </table>	Group	Feature	I	9 Removal of branches.												
Group	Feature																
I	9 Removal of branches.																
	In paragraph 23 delete Group II, III, IV, V, VI and VII and replace with the following:																
	<table> <tr> <th>Group</th><th>Feature</th></tr> <tr> <td>II</td><td>1 Different size categories.</td></tr> <tr> <td>III</td><td>1 Exceeding 300mm not exceeding 900mm girth.</td></tr> <tr> <td></td><td>2 Exceeding 900mm girth.</td></tr> <tr> <td>IV</td><td>1 Different density of cover.</td></tr> <tr> <td>V</td><td>1 Type of felling.</td></tr> <tr> <td>VI</td><td>1 Arisings spread on Site.</td></tr> <tr> <td></td><td>2 Arisings removed from Site.</td></tr> </table>	Group	Feature	II	1 Different size categories.	III	1 Exceeding 300mm not exceeding 900mm girth.		2 Exceeding 900mm girth.	IV	1 Different density of cover.	V	1 Type of felling.	VI	1 Arisings spread on Site.		2 Arisings removed from Site.
Group	Feature																
II	1 Different size categories.																
III	1 Exceeding 300mm not exceeding 900mm girth.																
	2 Exceeding 900mm girth.																
IV	1 Different density of cover.																
V	1 Type of felling.																
VI	1 Arisings spread on Site.																
	2 Arisings removed from Site.																
	Note 1: Group II and Group V shall only apply to Group I feature 8.																
	Note 2: Group III shall only apply to Group I feature 9.																
	Note 3: Group IV shall only apply to Group I feature 3.																
	Note 3: Group VI shall only apply to Group I features 2 and 3.																
Item coverage	In paragraph 25 add the following:																
	(h) spreading of arisings on Site.																
Item coverage	In paragraph 26 add the following:																
	(g) spreading of arisings on Site,																
	(h) grubbing out or treating stumps.																
	After paragraph 30 add the following new paragraph 30A:																
<b>Removal of Branches</b>	30A The items for removal of branches shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:																
Item coverage	(a) as paragraph 29 items (a) to (l).																
	<b>Maintenance of Established Wildflower Areas, Areas of Nature Conservation Value and Ornamental Planting Areas</b>																
Itemisation	In paragraph 37 delete Group III.																
	After paragraph 52 add the following paragraphs 53 to 56 inclusive:																
	<b>Tubes, Guards and Ties and Removal of Tubes, Guards and Ties</b>																
Units	53 The units of measurement shall be:																

(i) tree tubes, guards and ties and removal of tree tubes, guards and ties ..... number.

Measurement 54 The measurement shall be the number of individual tubes, guards and ties provided or removed.

Itemisation 55 Separate items shall be provided for replacement and removal of tree tubes, guards and ties in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Tree tube.
	2 Tree guard.
	3 Tree tie.
	4 Remove tree tube.
	5 Remove tree guard.
	6 Remove tree tie.

**Tree Tubes, Guards and Ties and Removal of Tubes Guards and Ties** 56 The items for tree tubes, guards and ties and removal of tubes, guards and ties shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) removal of existing tree tubes, guards and ties,
- (b) take up or down and set aside for re-use or remove to store or licensed facility (as Series 200 paragraph 11),
- (c) transportation, packing and unpacking,
- (d) storage, handling and distribution,
- (e) multiple handling,
- (f) labelling, strapping and spacers.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 3300: SITE INVESTIGATION****Rotary Coring of Existing Pavement**

Units	1	The unit of measurement shall be:	
	(i)	rotary coring of existing pavement and extra over for each increase in depth ..... number.	
Measurement	2	The measurement of rotary coring of existing pavement and extra over for each increase in depth shall be for the complete operation and the depth of core shall be taken as the overall length of the extracted core.	
Itemisation	3	Separate items shall be provided for rotary coring of existing pavement in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Rotary coring of existing pavement depth of core not exceeding 150mm.
			2 Extra over for each increase in depth of core of 150mm or part thereof.
		II	1 Not exceeding 150mm diameter.
<b>Rotary Coring of Existing Pavement</b>	4	The items for rotary coring of existing pavement and extra over for each increase in depth shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item coverage	(a)	cutting and extracting sample,	
	(b)	labelling, packaging and delivery to the Operating Company's store,	
	(c)	recording data analysing interpreting and reporting,	
	(d)	supplying the Overseeing Organisation with copies of the data and reports,	
	(e)	protecting and storing samples,	
	(f)	removing all loose or superfluous material,	
	(g)	disposal of material (as Series 600 paragraph 39),	
	(h)	reinstatement of paved area (as Series 700 paragraph 36).	

**Rotary Coring of Existing Structures**

Units	5	The unit of measurement shall be:	
	(i)	rotary coring of existing Structures and extra over for each increase in depth ..... number.	

Measurement 6 The measurement of rotary coring of existing Structures and extra over for each increase in depth shall be the complete operation and the depth of core shall be taken as the overall length of the extracted core.

Itemisation 7 Separate items shall be provided for rotary coring of existing Structures in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Rotary coring of existing Structures depth of core not exceeding 150mm.
	2 Extra over for each increase in depth of core of 150mm or part thereof.
II	1 Not exceeding 150mm diameter.

**Rotary Coring of Existing Structures** 8 The items for rotary coring of existing Structures and extra over for each increase in depth shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) locating reinforcement,
- (b) cutting and extracting sample,
- (c) labelling, packaging and delivery to the Operating Company's store,
- (d) recording data analysing interpreting and reporting,
- (e) supplying the Overseeing Organisation with copies of the data and reports,
- (f) protecting and storing samples,
- (g) removing all loose or superfluous material,
- (h) disposal of material (as Series 600 paragraph 39),
- (i) reinstatement.

### **Inspection Patches on Bridge Structures**

Units 9 The unit of measurement shall be:

- (i) excavate inspection patches, reinstate inspection patches ..... number.

Measurement 10 The measurement of excavate and reinstate inspection patches shall be for the complete operation.

Itemisation 11 Separate items shall be provided for excavate and reinstate inspection patches on bridge Structures in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Excavate inspection patches on bridge Structures.
	2 Reinstatement inspection patches on bridge Structures.



<b>Excavate and Reinstall Inspection Patches on Bridge Structure</b>	II	1	Not exceeding 0.25 square metres in area.							
		2	Over 0.25 square metres but not exceeding 0.50 square metres in area, and so on in steps of 0.50 square metres.							
	III	1	Not exceeding 150mm deep.							
		2	Over 150mm but not exceeding 300m deep.							
	12	The items for excavate and reinstate inspection patches on bridge Structure shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:								
		(i) in the case of excavate: (a) excavation (as Series 600 paragraphs 17, 18, 19 and 23), (b) removal of waterproofing system (as Series 2000 paragraph 12), (c) disposal of material (as Series 600 paragraph 39). (ii) in the case of reinstate: (a) reinstatement of paved area (as Series 700 paragraph 36), (b) waterproofing (as Series 2000 paragraph 4).								
	<b>Structural Investigations</b>									
	Units	13	The unit of measurement shall be: (i) half cell potential survey, cover survey, delamination/soundness survey, exposing reinforcement ..... square metre, (ii) other surveys, tests and examinations ..... number.							
	Measurement	14	The measurement of half cell potential surveys, cover surveys, delamination/soundness surveys and exposing reinforcement shall be the area surveyed or exposed.  The measurement of other surveys tests and examinations shall be the number of surveys tests and examinations performed.							
	Itemisation	15	Separate items shall be provided for structural investigations in accordance with Chapter II paragraphs 3 and 4 and the following:							
<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Surveys.</td></tr><tr><td></td><td>2 Tests.</td></tr><tr><td></td><td>3 Examinations and assessments.</td></tr></table>			Group	Feature	I	1 Surveys.		2 Tests.		3 Examinations and assessments.
Group	Feature									
I	1 Surveys.									
	2 Tests.									
	3 Examinations and assessments.									

		II	Different types.
<b>Structural Investigations</b>	16		The items for structural investigations shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a)	obtaining samples,
		(b)	protecting and storing samples,
		(c)	labelling, packaging and delivery of samples to the laboratory,
		(d)	testing at an accredited laboratory,
		(e)	recording data analysing interpreting and reporting,
		(f)	supplying the Overseeing Organisation with advance copies of the results,
		(g)	supplying the Overseeing Organisation with copies of the data and reports,
		(h)	disposal of material (as Series 600 paragraph 39),
		(i)	reinstatement.
			<b>Falling Weight Deflectometer Tests</b>
Units	17		The unit of measurement shall be:
		(i)	falling weight deflectometer test ..... number.
Measurement	18		The measurement of falling weight deflectometer tests shall be for the complete operation.
Itemisation	19		Separate items shall be provided for falling weight deflectometer in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group	Feature
		I	1 Falling weight deflectometer tests.
		II	1 Location.
<b>Falling Weight Deflectometer Tests</b>	20		The items for falling weight deflectometer tests shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a)	temperature measurements including repairs to pavement,
		(b)	recording required data analysing interpretation and supplying the Overseeing Organisation with a copy of the data and reports.
			<b>Dynamic Cone Penetrometer Tests</b>
Units	21		The unit of measurement shall be:
		(a)	dynamic cone penetrometer testing of unbound carriageway sub-base, capping layer, subgrade and verges ..... number.
Measurement	22		The measurement of dynamic cone penetrometer tests of unbound carriageway sub-base, capping layer, subgrade and verges shall be for the complete operation.

## Itemisation

- 23 Separate items shall be provided for dynamic cone penetrometer tests of unbound carriageway sub-base, capping layer, subgrade and verges in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Dynamic cone penetrometer testing of unbound carriageway sub-base, capping layer, subgrade and verges.

**Dynamic Cone Penetrometer Tests of Unbound Carriageway Sub-base/Capping Layer/Subgrade and Verges**

- 24 The items for dynamic cone penetrometer tests of unbound carriageway sub-base, capping layer, subgrade and verges shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

## Item coverage

- (a) drilling or coring,
- (b) repeating failed tests,
- (c) recording data, analysing, interpreting and reporting,
- (d) supplying the Overseeing Organisation with copies of the data and reports,
- (e) disposal of material (as Series 600 paragraph 39),
- (f) reinstatement.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 5000: MAINTENANCE PAINTING OF STEELWORK****Surface Preparation and Protective System****Itemisation**

In paragraph 4 delete Groups III, V and VI, and amend the Note at the bottom of the paragraph to 'Group IV shall be applied only to Group II Feature 1'.

Re-number Group IV as Group III and insert new Group IV.

Group	Feature
IV	1 Forth Road Bridge approach viaducts
	2 Other locations

**Surface preparation**

In paragraph 5 delete sub paragraph (h) and substitute the following:

**Item coverage**

(h) abrading and bevelling of edges into sound and firmly adhering material,

In paragraph 5 add the following:

- (n) merging with existing treatment,
- (o) access, excluding provision, operation and maintenance of access for Feature 1 – Forth Road Bridge approach viaducts.

**Protective system**

In paragraph 6 add the following:

**Item coverage**

- (d) merging with existing treatment,
- (e) marking and lettering,
- (f) access, excluding provision, operation and maintenance of access for Feature 1 – Forth Road Bridge approach viaducts.

After paragraph 6 insert the following paragraphs

**Application of Gulf Metalcoat to hangers and main cable hand strands of Forth Road Bridge****Units**

7 The Units of measurement for surface preparation and protective system comprising Gulf Metalcoat to hangers and main cable hand strands of Forth Road Bridge shall be:

- (i) surface preparation and protective system comprising Gulf Metalcoat to hangers and main cable handstrands..... linear metre

Measurement 8 The measurement of surface preparation and protective system comprising Gulf Metalcoat shall be the length of the hangers and main cable handstrands.

Itemisation 9 Separate items shall be provided for surface preparation and protective system comprising Gulf Metalcoat to hangers and main cable hand strands of Forth Road Bridge in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 surface preparation,
	2 Protective system comprising Gulf Metalcoat.
II	1 Different methods
III	1 Forth Road Bridge hangers
	2 Forth Road Bridge main cable handstrands

**Application of Gulf Metalcoat to hangers** 10 The items for surface preparation and protective system comprising Gulf Metalcoat to hangers and main cable hand strands of Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) provision of suspended platform,
- (b) operation and maintenance of suspended platform,
- (c) trial on a low level suspender location,
- (d) provision of radio communication,
- (e) mechanical agitation of paint,
- (f) provision of safe accesses to cradles,
- (g) operation of cradles,
- (h) prevention of paint drips from falling onto live traffic,
- (i) surface preparation of cables,
- (j) application by hand using either brush or suitable-lined gloves,
- (k) brushes to be secured with small lanyard and attached to person or cradle prior to painting.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 6100: CORE OPERATIONS MONTHLY SUMS****Core Operations Monthly Sums**

Definitions	1	Except for mobilisation, which is to be paid in accordance with Series 100, the Core Operations to be provided under this Contract shall be measured in accordance with this Series.
	2	Any Operations that are additional to Core Operations will be subject to an Order and shall be measured in accordance with the appropriate Series in this Schedule of Rates and Prices.
Units	3	<p>The units of measurement shall be:</p> <p>(i) management, inspection and maintenance Core Operations .....month.</p>
Measurement	4	<p>The measurement of:</p> <p>(i) inspections and safety patrols,</p> <p>(ii) Detailed Inspections,</p> <p>(iii) Repair of Category 1 Defects of value of repair not more than £10,000,</p> <p>(iv) Drainage System linear drainage systems,</p> <p>(v) Drainage System gullies, catchpits, interceptors, soakaways, manholes and oil separators,</p> <p>(vi) Drainage System drainage grips,</p> <p>(vii) Drainage System filter material,</p> <p>(viii) high, medium, low and minimal frequency grass cutting,</p> <p>(ix) vehicle restraint systems,</p> <p>(x) road traffic signs,</p> <p>(xi) Incident Response Operations of value not more than £10,000,</p> <p>that have a Payment Adjustment Factor for each month, shall be 1 multiplied by the Payment Adjustment Factor (Detailed in Schedule 5 Part 6, Annex C) for that month.</p> <p>The measurement of populate network inventory shall not exceed a cumulative total of 12 months. Measurement will only be permitted during the 12 month period following Commencement of Service</p>

		Date 1 for Network 1 and Commencement of Service Date 2 for Network 2.						
		The measurement of items which are described as “Extra over” other items shall be measured for the duration of Service Delivery Period 2 only.						
Itemisation	5	Separate items shall be provided for management, inspection and maintenance operations in accordance with Chapter II paragraphs 3 and 4 and the following: <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Schedule and Part number. 2 Extra over Schedule and Part number.</td></tr><tr><td>II</td><td>1 Different management, inspection and maintenance Operations.</td></tr></table>	Group	Feature	I	1 Schedule and Part number. 2 Extra over Schedule and Part number.	II	1 Different management, inspection and maintenance Operations.
Group	Feature							
I	1 Schedule and Part number. 2 Extra over Schedule and Part number.							
II	1 Different management, inspection and maintenance Operations.							
<b>Provide, Maintain and Update Register of staff and Professional Services staff</b>	6	The item for provide, maintain and update register of staff and Professional Services staff shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:  Item coverage (a) compliance with Clause 4.2 of Schedule 1 Part 1 excluding all additional Operations required for Service Delivery Period 2.						
<b>Extra over Provide, Maintain and Update Register of staff and Professional Services staff</b>	7	The item for extra over provide, maintain and update register of staff and Professional Services staff shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:  Item coverage (a) compliance with Clause 4.2 of Schedule 1 Part 1 for all additional Operations required for Service Delivery Period 2.						
<b>Overall Requirements</b>	8	The item for overall requirements shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:  Item coverage (a) compliance with Schedule 3 Part 1 excluding all additional Operations required for Service Delivery Period 2.						
<b>Extra over Overall Requirements</b>	9	The item for extra over overall requirements shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:  Item coverage (a) compliance with Schedule 3 Part 1 for all additional Operations required for Service Delivery Period 2.						
<b>Extent of the Unit</b>	10	The item for the extent of the Unit shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:  Item coverage (a) compliance with Schedule 3 Part 2 excluding all additional Operations required for Service Delivery Period 2.						

<b>Extra over Extent of the Unit</b>	11	<p>The item for extra over the extent of the Unit shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:</p> <p>(a) compliance with Schedule 3 Part 2 for all additional Operations required for Service Delivery Period 2.</p>
<b>Reference Documents</b>	12	<p>The item for the reference documents shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:</p> <p>(a) compliance with Schedule 3 Part 3 excluding all additional Operations required for Service Delivery Period 2.</p>
Item coverage		
<b>Extra over Reference Documents</b>	13	<p>The item for extra over the reference documents shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:</p> <p>(a) compliance with Schedule 3 Part 3 for all additional Operations required for Service Delivery Period 2.</p>
Item coverage		
<b>Other Contracts within the Unit</b>	14	<p>The item for other contracts within the Unit shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:</p> <p>(a) compliance with Schedule 3 Part 4 excluding all additional Operations required for Service Delivery Period 2. Where the Director appoints the Operating Company to procure or manage a Works Contracts which the previous operating company or FETA was procuring or managing the Operating Company shall be paid separately under Series 6200.</p>
Item coverage		
<b>Extra over Other Contracts within the Unit</b>	15	<p>The item for extra over other contracts within the Unit shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:</p> <p>(a) compliance with Schedule 3 Part 4 for all additional Operations required for Service Delivery Period 2. Where the Director appoints the Operating Company to procure or manage a Works Contracts which the previous operating company or FETA was procuring or managing the Operating Company shall be paid separately under Series 6200.</p>
Item coverage		
<b>Communications Strategy, Correspondence Enquiries and Complaints</b>	16	<p>The item for communications strategy, correspondence, enquiries and complaints shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:</p> <p>(a) compliance with Schedule 3 Part 5 excluding all additional Operations required for Service Delivery Period 2.</p>
Item coverage		



<b>Extra over Communications Strategy, Correspondence Enquiries and Complaints</b>	17	The item for extra over communications strategy, correspondence, enquiries and complaints shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 5 for all additional Operations required for Service Delivery Period 2.
<b>Customer Contact Services</b>	18	The item for customer contact services shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 6 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Customer Contact Services</b>	19	The item for extra over customer contact services shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 6 for all additional Operations required for Service Delivery Period 2.
<b>Network Operations Services</b>	20	The item for network operations services shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 7 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Network Operations Services</b>	21	The item for extra over network operations services shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 7 for all additional Operations required for Service Delivery Period 2.
<b>Statutory Functions</b>	22	The item for Statutory Functions shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 8 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Statutory Functions</b>	23	The item for extra over Statutory Functions shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 8 for all additional Operations required for Service Delivery Period 2.

<b>Collaboration Requirements</b>	24	The item for collaboration requirements shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 9 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Collaboration Requirements</b>	25	The item for extra over collaboration requirements shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 9 for all additional Operations required for Service Delivery Period 2.
<b>Partnering</b>	26	The item for partnering shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 10 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Partnering</b>	27	The item for extra over partnering shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 10 for all additional Operations required for Service Delivery Period 2.
<b>Community Benefits</b>	28	The item for community benefits shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 11 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Community Benefits</b>	29	The item for extra over community benefits shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 3 Part 11 for all additional Operations required for Service Delivery Period 2.
<b>Financial and Contract Management</b>	30	The item for financial and contract management shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		24. (a) compliance with Schedule 4 Part 1 excluding all additional Operations required for Service Delivery Period 2 and excluding provision of resources for Integrated Roads Information System measured as mobilisation under Series 100.
		(b) compliance with paragraph 4.32.2 of Schedule 7 Part 1.

<b>Extra over Financial and Contract Management</b>	31	The item for extra over financial and contract management shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>a) compliance with Schedule 4 Part 1 for all additional Operations required for Service Delivery Period 2 excluding provision of resources for Integrated Roads Information System measured as mobilisation under Series 100.</li> <li>(b) compliance with paragraph 4.32.2 of Schedule 7 Part 1.</li> </ul>
<b>Integrated Roads Information System</b>	32	The item for Integrated Roads Information System shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) compliance with Schedule 4 Part 2 excluding paragraph 2.4 and excluding all additional Operations required for Service Delivery Period 2.</li> </ul>
<b>Extra over Integrated Roads Information System</b>	33	The item for extra over Integrated Roads Information System shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) compliance with Schedule 4 Part 2 excluding paragraph 2.4 for all additional Operations required for Service Delivery Period 2.</li> </ul>
<b>Inventory Requirements</b>	34	The item for inventory requirements shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) compliance with paragraph 2.4 of Schedule 4 Part 2, and excluding all additional Operations required for Service Delivery Period 2.</li> </ul>
<b>Extra over Inventory Requirements</b>	35	The item for extra over inventory requirements shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) compliance with paragraph 2.4 of Schedule 4 Part 2, , for all additional Operations required for Service Delivery Period 2.</li> </ul>
<b>Roadside Electrical Assets, and Power Supplies</b>	36	The item for roadside electrical assets and power supplies shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) compliance with Schedule 4 Part 3 excluding all additional Operations required for Service Delivery Period 2.</li> </ul>
<b>Extra over Roadside Electrical Assets, and Power Supplies</b>	37	The item for extra over roadside electrical assets and power supplies shall in accordance with the

		Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 4 Part 3 for all additional Operations required for Service Delivery Period 2.
<b>Damage To Crown Property and Third Party Claims</b>	38	The item for Damage to Crown Property and third party claims shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 4 Part 4, excluding paragraph 3.2,
<b>Repair of Damage to Crown Property of Value of Repairs of not more than £50,000</b>	39	The item for repair of Damage to Crown Property of value of repairs of not more than £50,000 shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) initial, secondary, and back-up Incident Response Operations,
		(b) temporary repairs and temporary safety measures to allow safety and usability to be restored,
		(c) compliance with paragraph 3.2 of Schedule 4 Part 4, excluding removal of graffiti,
		(d) police reports,
		(e) establishing, maintaining and removing traffic management while the Design and Operations are completed to allow the repair to be executed,
		(f) recovery of the costs of repair of the damage to Crown Property from the third party which caused the damage,
		(g) betterment,
		(h) assessment and Design,
		(i) non-recovery of any costs of repair from any third party including the Motor Insurance Bureau.
<b>Management System</b>	40	The item for management system shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 1 and paragraph 1.10 of Schedule 7 Part 1 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Management System</b>	41	The item for extra over management system shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 1 and paragraph 1.10 of Schedule 7 Part 1 for all

		additional Operations required for Service Delivery Period 2.
<b>Records, Information and communication Technology</b>	42	The item for records, information and communication technology shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 2 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Records, Information and communication Technology</b>	43	The item for extra over records, information and communication technology shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 2 for all additional Operations required for Service Delivery Period 2.
<b>Reporting and Submission Requirements and Progress Meetings</b>	44	The item for reporting and submission requirements and progress meetings shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 3 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Reporting and Submission Requirements and Progress Meetings</b>	45	The item for extra over reporting and submission requirements and progress meetings shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 3 for all additional Operations required for Service Delivery Period 2.
<b>Operating Company's Representative, Core Management Team and Key Staff</b>	46	The item for Operating Company's Representative, Core Management Team and Key Staff shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 4 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Operating Company's Representative, Core Management Team and Key Staff</b>	47	The item for extra over Operating Company's Representative, Core Management Team and Key Staff shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 4 for all additional Operations required for Service Delivery Period 2.
<b>Audits by the Performance Audit Group</b>	48	The item for audits by the Performance Audit Group shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 5.

<b>Performance Measurement</b>	49	The item for performance measurement shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 6 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Performance Measurement</b>	50	The item for extra over performance measurement shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 6 for all additional Operations required for Service Delivery Period 2.
<b>Operating Company's Offices and Depots</b>	51	The item for Operating Company's offices and depots shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 7 excluding all additional Operations required for Service Delivery Period 2 and excluding all of the buildings and areas of land being leased to the Operating Company which do not form part of the Unit and which shall be subject to a separate lease agreement(s) between the Scottish Ministers and the Operating Company.
<b>Extra over Operating Company's Offices and Depots</b>	52	The item for extra over Operating Company's offices and depots shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 7 for all additional Operations required for Service Delivery Period 2 excluding all of the buildings and areas of land being leased to the Operating Company which do not form part of the Unit and which shall be subject to a separate lease agreement(s) between the Scottish Ministers and the Operating Company.
<b>Environmental Sustainability and Waste</b>	53	The item for environmental sustainability and waste shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 8 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Environmental Sustainability and Waste</b>	54	The item for extra over environmental sustainability and waste shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 8 for all additional Operations required for Service Delivery Period 2.

<b>Procurement and Management of Schemes</b>	55	The item for procurement and management of schemes shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 6 Part 1 excluding procurement and management of Works Contracts measured under Series 6300.
<b>Construction (Design and Management) Regulations 2007</b>	56	The item for <i>Construction (Design and Management) Regulations 2007</i> shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 6 Part 2 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Construction (Design and Management) Regulations 2007</b>	57	The item for extra over <i>Construction (Design and Management) Regulations 2007</i> shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 6 Part 2 for all additional Operations required for Service Delivery Period 2.
<b>Road Safety Audits</b>	58	The item for road safety audits shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 6 Part 3 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Road Safety Audits</b>	59	The item for extra over road safety audits shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 6 Part 3 for all additional Operations required for Service Delivery Period 2.
<b>Design</b>	60	The item for Design shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 6 Part 4 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Design</b>	61	The item for extra over Design shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 6 Part 4 for all additional Operations required for Service Delivery Period 2.
<b>Routine Maintenance and Management Function</b>	62	The item for Routine Maintenance and Management Function shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage		(a) compliance with paragraph 1.2 of Schedule 7 Part 1 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Routine Maintenance and Management Function</b>	63	The item for extra over Routine Maintenance and Management Function shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 1.2 of Schedule 7 Part 1 for all additional Operations required for Service Delivery Period 2.
<b>Defect Categories and Response Times</b>	64	The item for Defect categories and response times shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 2 of Schedule 7 Part 1, excluding permanent repair Operations, and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Defect Categories and Response Times</b>	65	The item for extra over defect categories and response times shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 2 of Schedule 7 Part 1, excluding permanent repair Operations, for all additional Operations required for Service Delivery Period 2.
<b>Hazard Notices and Observations Identified by Performance Audit Group</b>	66	The item for Hazard Notices and observations identified by Performance Audit Group shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 3 of Schedule 7 Part 1 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Hazard Notices and Observations Identified by Performance Audit Group</b>	67	The item for extra over Hazard Notices and observations identified by Performance Audit Group shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 3 of Schedule 7 Part 1 for all additional Operations required for Service Delivery Period 2.
<b>Inspections and Safety Patrols</b>	68	The item for inspections and safety patrols shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:



Item coverage		<ul style="list-style-type: none"> <li>(a) compliance with all Safety Inspections, Safety Patrols, ad-hoc inspections and Audit Inspection requirements of Schedule 7 Part 1,</li> <li>(b) compliance with paragraphs 1.1.7 to 1.1.10 of Schedule 7 Part 1,</li> <li>(c) entering any Defects identified into the system in paragraph 1.1.7 of Schedule 7 Part 1 within the timescales stated in Schedule 7 Part 1,</li> </ul> <p>excluding all additional Operations required for Service Delivery Period 2.</p>
<b>Extra over Inspections and Safety Patrols</b>	69	The item for extra over inspections and safety patrols shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>a) compliance with all Safety Inspections, Safety Patrols, ad-hoc inspections and Audit Inspection requirements of Schedule 7 Part 1,</li> <li>(b) compliance with paragraphs 1.1.7 to 1.1.10 of Schedule 7 Part 1,</li> <li>(c) entering any Defects identified into the system in paragraph 1.1.7 of Schedule 7 Part 1 within the timescales stated in Schedule 7 Part 1,</li> </ul> <p>for all additional Operations required for Service Delivery Period 2.</p>
<b>Repair of Category 1 Defects of Value Not More Than £10,000</b>	70	The item for Repair of Category 1 Defects of value of repairs not more than £10,000 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) compliance with paragraph 2, Schedule 7 Part 1, in respect of permanent repair Operations of value not more than £10,000,</li> <li>(b) the cost of maintaining temporary repairs,</li> <li>(c) all traffic management required in connection with making safe and the repair of a Category 1 Defect,</li> <li>(d) travel to and from the scene of the Category 1 Defect,</li> <li>(e) reporting to the Director details of all Operations carried out and materials used,</li> <li>(f) disruption to other work as a result of attending Category 1 Defects,</li> <li>(g) attending a reported Category 1 Defect where no defect is found,</li> <li>(h) Professional Services and Design,</li> </ul> <p>excluding all additional Operations required for Service Delivery Period 2.</p>

<b>Extra over Repair of Category 1 Defects of Value Not More Than £10,000</b>	71	The item for extra over Repair of Category 1 Defects of value of repairs not more than £10,000 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) compliance with paragraph 2, Schedule 7 Part 1, in respect of permanent repair Operations of value not more than £10,000,</li> <li>(b) the cost of maintaining temporary repairs,</li> <li>(c) all traffic management required in connection with making safe and the repair of a Category 1 Defect,</li> <li>(d) travel to and from the scene of the Category 1 Defect,</li> <li>(e) reporting to the Director details of all Operations carried out and materials used,</li> <li>(f) disruption to other work as a result of attending Category 1 Defects,</li> <li>(g) attending a reported Category 1 Defect where no defect is found,</li> <li>(h) Professional Services and Design,</li> </ul> <p>for all additional Operations required for Service Delivery Period 2.</p>
<b>Detailed Inspections</b>	72	The item for Detailed Inspections shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) compliance with all Detailed Inspection requirements of Schedule 7 Part 1, excluding paragraphs 1.8.14 and 1.8.15 in respect of inventory validation, and excluding all additional Operations required for Service Delivery Period 2.</li> <li>(b) reports and recording of results and data in routine maintenance and management function of the Integrated Roads and Information System excluding all additional Operations required for Service Delivery Period 2.</li> </ul>
<b>Extra over Detailed Inspections</b>	73	The item for extra over Detailed Inspections shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> <li>(a) compliance with all Detailed Inspection requirements of Schedule 7 Part 1, excluding paragraphs 1.8.14 and 1.8.15 in respect of inventory validation, for all additional Operations required for Service Delivery Period 2.</li> <li>(b) reports and recording of results and data in routine maintenance and management function of the Integrated Roads and</li> </ul>

		Information System for all additional Operations required for Service Delivery Period 2.
<b>Carriageway</b>	74	The item for carriageway shall in accordance with the Preambles to Schedule of Rates General Directions include for:
Item coverage		(a) compliance with paragraph 4.1 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Carriageway</b>	75	The item for extra over carriageway shall in accordance with the Preambles to Schedule of Rates General Directions include for:
Item coverage		(a) compliance with paragraph 4.1 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Pedestrian and Cycle Facilities</b>	76	The item for pedestrian and cycle facilities shall in accordance with the Preambles to Schedule of Rates General Directions include for:
Item coverage		(a) compliance with paragraph 4.2 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Pedestrian and Cycle Facilities</b>	77	The item for extra over pedestrian and cycle facilities shall in accordance with the Preambles to Schedule of Rates General Directions include for:
Item coverage		(a) compliance with paragraph 4.2 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Covers, Gratings and Frames</b>	78	The item for covers, gratings and frame shall in accordance with the Preambles to Schedule of Rates General Directions include for:
Item coverage		(a) compliance with paragraph 4.3 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Covers, Gratings and Frames</b>	79	The item for extra over covers, gratings and frame shall in accordance with the Preambles to Schedule of Rates General Directions include for:
Item coverage		(a) compliance with paragraph 4.3 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Kerbs, Channels Edgings and Quadrants</b>	80	The item for kerbs, channels, edgings and quadrants shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage		(a) compliance with paragraph 4.4 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Kerbs, Channels Edgings and Quadrants</b>	81	The item for extra over kerbs, channels, edgings and quadrants shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.4 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Linear Drainage Systems</b>	82	The item for linear drainage systems shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.5 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Linear Drainage Systems</b>	83	The item for extra over linear drainage systems shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.5 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Gullies, Catchpits, Interceptors, Soakaways, Manholes and Oil Separators</b>	84	The item for gullies, catchpits, interceptors, soakaways, manholes and oil separators shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.6 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Gullies, Catchpits, Interceptors, Soakaways, Manholes and Oil Separators</b>	85	The item for extra over gullies, catchpits, interceptors, soakaways, manholes and oil separators shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.6 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Drainage Grips</b>	86	The item for drainage grips shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.7 of Schedule 7 Part 1 excluding Detailed Inspections and

		excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Drainage Grips</b>	87	The item for extra over drainage grips shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.7 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Ditches</b>	88	The item for ditches shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.8 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Ditches</b>	89	The item for extra over ditches shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.8 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Filter Material</b>	90	The item for filter material shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.9 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Filter Material</b>	91	The item for extra over filter material shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.9 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Drainage Structures</b>	92	The item for drainage Structures shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.10 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Drainage Structures</b>	93	The item for extra over drainage Structures shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.10 of Schedule 7 Part 1 excluding Detailed Inspections, for

		all additional Operations required for Service Delivery Period 2.
<b>Balancing Ponds</b>	94	The item for balancing ponds shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.11 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Balancing Ponds</b>	95	The item for extra over balancing ponds shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.11 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Ancillary Drainage Items</b>	96	The item for ancillary drainage items shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.12 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Ancillary Drainage Items</b>	97	The item for extra over ancillary drainage items shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.12 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Communications and Miscellaneous Equipment</b>	98	The item for communications and miscellaneous equipment shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.13 of Schedule 7 Part 1 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Communications and Miscellaneous Equipment</b>	99	The item for extra over communications and miscellaneous equipment shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		a) compliance with paragraph 4.13 of Schedule 7 Part 1 for all additional Operations required for Service Delivery Period 2.
<b>Geotechnical Assets</b>	100	The item for geotechnical assets shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.14 of Schedule 7 Part 1 excluding Detailed Inspections and

		excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Geotechnical Assets</b>	101	The item for extra over geotechnical assets shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.14 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Grassed Areas</b>	102	The items for grassed areas shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.15 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Grassed Areas</b>	103	The items for extra over grassed areas shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.15 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Bulb and Wildflower Areas</b>	104	The item for bulb and wildflower areas shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.16 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Bulb and Wildflower Areas</b>	105	The item for extra over bulb and wildflower areas shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.16 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Woodland Areas and Trees</b>	106	The item for woodland areas and trees shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.17 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Woodland Areas and Trees</b>	107	The item for extra over woodland areas and trees shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.17 of Schedule 7 Part 1 excluding Detailed Inspections, for

		all additional Operations required for Service Delivery Period 2.
<b>Scrub Areas, Shrub Areas and Hedges</b>	108	The item for scrub areas shrub areas and hedges shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.18 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Scrub Areas, Shrub Areas and Hedges</b>	109	The item for extra over scrub areas shrub areas and hedges shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.18 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Wetland Areas</b>	110	The item for wetland areas shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.19 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Wetland Areas</b>	111	The item for extra over wetland areas shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.19 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Special Ecological Measures</b>	112	The item for special ecological measures shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.20 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Special Ecological Measures</b>	113	The item for extra over special ecological measures shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.20 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Invasive Species</b>	114	The item for invasive species shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.21 of Schedule 7 Part 1 excluding Detailed Inspections and



		excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Invasive Species</b>	115	The item for extra over invasive species shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.21 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Vehicle Restraint Systems and Pedestrian Restraint Systems</b>	116	The item for vehicle restraint systems and pedestrian restraint systems shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraphs 4.22 and 4.23 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Vehicle Restraint Systems and Pedestrian Restraint Systems</b>	117	The item for extra over vehicle restraint systems and pedestrian restraint systems shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraphs 4.22 and 4.23 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Fences, Walls, Screens and Noise Barriers</b>	118	The item for fences, walls, screens and noise barriers shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.24 of Schedule 7 Part 1 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over fences, Walls, Screens and Noise Barriers</b>	119	The item for extra over fences, walls, screens and noise barriers shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.24 of Schedule 7 Part 1 for all additional Operations required for Service Delivery Period 2.
<b>Road Studs</b>	120	The item for road studs shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.26 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.

<b>Extra over Road Studs</b>	121	The item for extra over road studs shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.26 of Schedule 7 Part 1 for all additional Operations required for Service Delivery Period 2.
<b>Road Traffic Signs</b>	122	The item for road traffic signs shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.27 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Road Traffic Signs</b>	123	The item for extra over road traffic signs shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.27 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Traffic Signals</b>	124	The item for traffic signals shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.28 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Traffic Signals</b>	125	The item for extra over traffic signals shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.28 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Roadside Electrical Assets and Power Supplies</b>	126	The item for roadside electrical assets and power supplies shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.29 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Roadside Electrical Assets and Power Supplies</b>	127	The item for extra over roadside electrical assets and power supplies shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.29 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.

<b>Weather Stations</b>	128	The item for weather stations shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.30 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Weather Stations</b>	129	The item for extra over weather stations shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.30 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Traffic Control Barriers</b>	130	The item for traffic control barriers shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.33 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Traffic Control Barriers</b>	131	The item for extra over traffic control barriers shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.33 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Litter and Refuse</b>	132	The item for litter and refuse shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.34 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Litter and Refuse</b>	133	The item for extra over litter and refuse shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.34 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Dead Animals Objects and Cleaning</b>	134	The item for dead animals, objects and cleaning shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.35 of Schedule 7 Part 1 excluding all additional Operations required for Service Delivery Period 2.

<b>Extra over Dead Animals Objects and Cleaning</b>	135	The item for extra over dead animals, objects and cleaning shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.35 of Schedule 7 Part 1 for all additional Operations required for Service Delivery Period 2.
<b>Removal of Graffiti</b>	136	The item for removal of graffiti shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.36 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra Removal of Graffiti</b>	137	The item for extra over removal of graffiti shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.36 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Node Markers</b>	138	The item for node markers shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.37 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Node Markers</b>	139	The item for extra over node markers shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.37 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.
<b>Flooding</b>	140	The item for flooding shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.38 of Schedule 7 Part 1 excluding Detailed Inspections and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Flooding</b>	141	The item for extra over flooding shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 4.38 of Schedule 7 Part 1 excluding Detailed Inspections, for all additional Operations required for Service Delivery Period 2.

<b>Populate Network Inventory for Network 1</b>	142	The item for populate network inventory for Network 1 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 1.8.14 of Schedule 7 Part 1.
<b>Populate Network Inventory for Network 2</b>	143	The item for populate network inventory for Network 2 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 1.8.15 of Schedule 7 Part 1.
<b>Winter Service</b>	144	The item for Winter Service shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 2 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Winter Service</b>	145	The item for extra over Winter Service shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 2 for all additional Operations required for Service Delivery Period 2.
<b>Incident Response excluding Incident Response Operations for Incidents of Value not more than £10,000</b>	146	The item for Incident Response shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 3 excluding Incident Response Operations, Vehicle Recovery Service and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Incident Response excluding Incident Response Operations for Incidents of Value not more than £10,000</b>	147	The item for extra over Incident Response shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 3 excluding Incident Response Operations and Vehicle Recovery Service for all additional Operations required for Service Delivery Period 2.
<b>Incident Response Operations for Incidents of Value not more than £10,000</b>	148	The item for Incident Response Operations for Incidents of value not more than £10,000 shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 3 Incident Response Operations,
		(b) travel to and from the scene of the Incident,

		<ul style="list-style-type: none"> <li>(c) acting on Orders and or the instructions of the Emergency Services,</li> <li>(d) reporting to the Overseeing Organisation details of all Operations carried out and materials used,</li> <li>(e) disruption to other work as a result of attending Incidents,</li> <li>(f) attending a reported Incident or Category 1 Defect where no defect is found,</li> <li>(g) maintaining temporary repairs until a permanent repair is carried out,</li> <li>(h) Professional Services,</li> </ul> <p>excluding all additional Operations required for Service Delivery Period 2.</p>
<b>Extra over Incident Response Operations for Incidents of Value not more than £10,000</b>	149	<p>The item for extra over Incident Response Operations for Incidents of value not more than £10,000 shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:</p> <ul style="list-style-type: none"> <li>(a) compliance with Schedule 7 Part 3 Incident Response Operations,</li> <li>(b) travel to and from the scene of the Incident,</li> <li>(c) acting on Orders and or the instructions of the Emergency Services,</li> <li>(d) reporting to the Overseeing Organisation details of all Operations carried out and materials used,</li> <li>(e) disruption to other work as a result of attending Incidents,</li> <li>(f) attending a reported Incident or Category 1 Defect where no defect is found,</li> <li>(g) maintaining temporary repairs until a permanent repair is carried out,</li> <li>(h) Professional Services,</li> </ul> <p>for all additional Operations required for Service Delivery Period 2.</p>
<b>Light Recovery Vehicle, Motorcycle Recovery Facility and Impact Protection Vehicle</b>	150	<p>The item for light recovery vehicle, motorcycle recovery facility and impact protection vehicle shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:</p> <ul style="list-style-type: none"> <li>(a) compliance with Schedule 7 Part 3 and Schedule 9 Part 2 excluding all additional Operations required for Service Delivery Period 2.</li> </ul>
<b>Extra over Light Recovery Vehicle, Motorcycle Recovery</b>	151	<p>The item for extra over light recovery vehicle, motorcycle recovery facility and impact protection vehicle shall in accordance with the Preambles to the</p>

<b>Facility and Impact Protection Vehicle</b>		Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 3 and Schedule 9 Part 2 for all additional Operations required for Service Delivery Period 2.
<b>Heavy Recovery Vehicle and Impact Protection Vehicle</b>	152	The item for heavy recovery vehicle and impact protection vehicle shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 3 and Schedule 9 Part 2 excluding all additional Operations required for Service Delivery Period 2.
<b>Not Used</b>	153	Item not taken up
<b>Landscape Development Process and Deliverables</b>	154	The item for landscape development process and deliverables shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 4 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Landscape Development Process and Deliverables</b>	155	The item for extra over landscape development process and deliverables shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 4 for all additional Operations required for Service Delivery Period 2.
<b>New Roads and Street Works Act 1991</b>	156	The item for New Roads and Street Works Act 1991 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 5 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over New Roads and Street Works Act 1991</b>	157	The item for extra over New Roads and Street Works Act 1991 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 5 for all additional Operations required for Service Delivery Period 2.
<b>Management and Maintenance of Structures excluding Requirements for Maintenance of Structures</b>	158	The item for management and maintenance of structures shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage		(a) compliance with Schedule 7 Part 6 excluding paragraph 5, excluding the cost of Possessions and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Management and Maintenance of Structures excluding Requirements for Maintenance of Structures</b>	159	The item for extra over management and maintenance of structures shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 6 excluding paragraph 5, excluding the cost of Possessions, for all additional Operations required for Service Delivery Period 2.
<b>Management and Maintenance of Structures: Requirements for Maintenance of Structures</b>	160	The item for management and maintenance of Structures: requirements for maintenance of structures shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 5 of Schedule 7 Part 6 excluding the cost of Possessions and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Management and Maintenance of Structures: Requirements for Maintenance of Structures</b>	161	The item for extra over management and maintenance of Structures: requirements for maintenance of structures shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		a) compliance with paragraph 5 of Schedule 7 Part 6 excluding the cost of Possessions, for all additional Operations required for Service Delivery Period 2.
<b>Operation and Monitoring of Main Cable Acoustic Monitoring System on Forth Road Bridge</b>	162	The item for operation and monitoring of main cable acoustic monitoring system on Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 2.2.11 of Annex 7.7/A to Schedule 7 Part 7.



<b>Operation and Monitoring of Main Cable De-humidification System in Accordance with Manufacturer's Recommendations on Forth Road Bridge</b>	163	The item for operation and monitoring of main cable de-humidification system in accordance with manufacturer's recommendations on Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		a) compliance with Schedule 7 Part 7.
<b>Maintenance and Calibration of Weigh in Motion System in accordance with manufacturer's recommendations on Forth Road Bridge</b>	164	The item for maintenance and calibration of weigh in motion system in accordance with manufacturer's recommendations on Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		a) compliance with Schedule 7 Part 7.
<b>Forth Road Bridge Inspection requirements in accordance with the Forth Road Bridge Engineering Manual</b>	165	The item for Forth Road Bridge inspection requirements in accordance with the Forth Road Bridge Engineering Manual shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		a) compliance with the requirements of Schedule 7 Part 7.
<b>Queensferry Crossing Inspection requirements in accordance with the Queensferry Crossing Inspection and Maintenance Manual</b>	166	The item for Queensferry Crossing inspection requirements in accordance with the Queensferry Crossing Inspection and Maintenance Manual shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item description		(a) compliance with Schedule 7 Part 7.
<b>Inspection, Operation, Maintenance and Servicing of Access Systems for Forth Road Bridge</b>	167	The item for inspection, operation, maintenance and servicing of Access Systems for Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 2.2.13 and 2.2.14 of Annex 7.7/A to Schedule 7 Part 7.
<b>Inspection, Operation, Maintenance and Servicing of Access Systems for Queensferry Crossing</b>	168	The item for inspection, operation, maintenance and servicing of Access Systems for Queensferry Crossing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 3.2.11 and 3.2.12 of Annex 7.7/A to Schedule 7 Part 7.
<b>Forth Road Bridge Engineering Manual</b>	169	The item for Forth Road Bridge Engineering Manual shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage		(a) All requirements of the Forth Road Bridge Engineering Manual not covered in any other item.
<b>Queensferry Crossing Inspection and Maintenance Manual</b>	170	The item for Queensferry Crossing Inspection and Maintenance Manual shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) All requirements of the Queensferry Crossing Inspection and Maintenance Manual not covered in any other item.
<b>Inspection, Operation and Maintenance of Mechanical and Electrical Systems on the Forth Road Bridge</b>	171	The item for inspection, operation and maintenance of mechanical and electrical systems on the Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 2.2.12 of Annex 7.7/A to Schedule 7 Part 7.
<b>Inspection, Operation and Maintenance of Mechanical and Electrical Systems for the Queensferry Crossing</b>	172	The item for inspection and maintenance of mechanical and electrical components for the Queensferry Crossing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 3.2.10 of Annex 7.7/A to Schedule 7 Part 7.
<b>Operation and Maintenance of the Supervisory Control And Data Acquisition System for Queensferry Crossing</b>	173	The item for operation and maintenance of the Supervisory Control And Data Acquisition System for Queensferry Crossing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 7.
<b>Operation and Maintenance of the Structural Health Monitoring System for Queensferry Crossing</b>	174	The item for operation and maintenance of the Structural Health Monitoring System for Queensferry Crossing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 7.
<b>Maintenance Activities for Forth Road Bridge</b>	175	The item for maintenance activities for Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 6 and Schedule 7 Part 7
<b>Maintenance Activities for Queensferry Crossing</b>	176	The item for maintenance activities for Queensferry Crossing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage		(a) compliance with Schedule 7 Part 6 and Schedule 7 Part 7 excluding the cost of Possessions
<b>Monitoring and Reporting Requirements for the Supervisory Control And Data Acquisition System for Queensferry Crossing</b>	177	The item for monitoring and reporting requirements for the Supervisory Control And Data Acquisition System for Queensferry Crossing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 7
<b>Monitoring and Reporting Requirements for the Structural Health Monitoring System for Queensferry Crossing</b>	178	The item for monitoring and reporting requirements for the Structural Health Monitoring System for Queensferry Crossing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 7.
<b>Monitoring of BP oil pipeline structures for stray current from oil pipeline</b>	179	The item for monitoring of BP oil pipeline structures for stray current from oil pipeline shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 7.
<b>Maintain structural analysis software for Forth Road Bridge</b>	180	The item for maintain structural analysis software for Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 2.2.18 of Annex 7.7/A to Schedule 7 Part 7.
<b>Maintain structural analysis software for Queensferry Crossing</b>	181	The item for maintain structural analysis software for Queensferry Crossing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 3.2.27 of Annex 7.7/A to Schedule 7 Part 7.
<b>Establish and Maintain Bridge Asset Management Database for Forth Road Bridge</b>	182	The item for establish and maintain bridge asset management database for Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 2.2.16 of Annex 7.7/A to Schedule 7 Part 7.
<b>Establish and Maintain Bridge Asset Management Database for Queensferry Crossing</b>	183	The item for establish and maintain bridge asset management database for Queensferry Crossing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraph 3.2.14 of Annex 7.7/A to Schedule 7 Part 7

<b>Inspection and Maintenance of CCTV and intruder alarms</b>	184	The item for inspection and maintenance of CCTV and intruder alarms shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 7 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Inspection and Maintenance of CCTV and intruder alarms</b>	185	The item for extra over inspection and maintenance of CCTV and intruder alarms shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 7 for all additional Operations required for Service Delivery Period 2.
<b>Monitoring, Operation and Maintenance of security system on Forth Road Bridge</b>	186	The item for monitoring, operation and maintenance of security system on Forth Road Bridge shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 7.
<b>Monitoring, Operation and Maintenance of security system on Queensferry Crossing</b>	187	The item for operation, monitoring and maintenance of security systems on Queensferry Crossing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 7.
<b>Operation of Forth Road Bridge from Control room (Service Delivery Period 1)</b>	188	The item for operation of Forth Road Bridge from control room (Service Delivery Period 1) shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 7 and Schedule 7 Part 7.
<b>Operation of Forth Road Bridge and Queensferry Crossing from Control room (Service Delivery Period 2)</b>	189	The item for operation of Forth Road Bridge and Queensferry Crossing from control room (Service Delivery Period 2) shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 5 Part 7 and Schedule 7 Part 7.
<b>Severe Weather Services</b>	190	The item for Severe Weather shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 7 Part 8 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Severe Weather Services</b>	191	The item for extra over Severe Weather shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage		(a) compliance with Schedule 7 Part 8 for all additional operations required for Service Delivery Period 2.
<b>Abnormal Indivisible Load Routeing</b>	192	The item for abnormal indivisible load routeing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 8 Part 1 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Abnormal Indivisible Load Routeing</b>	193	The extra over item for abnormal indivisible load routeing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 8 Part 1 for all additional Operations required for Service Delivery Period 2.
<b>Development Management</b>	194	The item for development management shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 8 Part 2 excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Development Management</b>	195	The item for extra over development management shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 8 Part 2. for all additional Operations required for Service Delivery Period 2.
<b>Road Safety and Accident Investigation and Prevention</b>	196	The item for road safety and accident investigation and prevention shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 8 Part 3 excluding procurement and management of Works Contracts measured under Series 6300 and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Road Safety and Accident Investigation and Prevention</b>	197	The item for extra over road safety and accident investigation and prevention shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 8 Part 3 excluding procurement and management of Works Contracts measured under Series 6300, for all additional Operations required for Service Delivery Period 2.

<b>Signs Requiring Authorisation</b>	198	The item for signs requiring authorisation shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 8 Part 4 and excluding all additional Operations required for Service Delivery Period 2.
<b>Extra over Signs Requiring Authorisation</b>	199	The item for extra over signs requiring authorisation shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 8 Part 4 for all additional Operations required for Service Delivery Period 2.
<b>Manage and Maintain Grip Tester</b>	200	The item for Manage and Maintain Grip Tester shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Clauses 972AR and 973AR of Schedule 9 Part 1.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 6200: PROFESSIONAL SERVICES****Professional Services**

Units	1	The units of measurement shall be:	
	(i)	staff category and classification ..... hour.	
Measurement	2	Professional Services rates shall apply for Scheme investigations.	
		Professional Services for other Operations shall only be measured using this Series where subject to an Order stating that Professional Services are to be used.	
		The measurement of work at professional services rates shall be based on certified timesheet records. Travel time shall be paid for travel from the Central Office or a sub office within the Unit to the location where the services are being undertaken whichever is the lesser.	
Itemisation	3	Separate items shall be provided for professional services rates in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		1	1 Category of staff.
			2 Staff classification.
<b>Professional Services</b>	4	The items for professional services rates shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item Coverage	(a)	basic time and overtime worked,	
	(b)	non-productive overtime payments,	
	(c)	bonuses and incentive payments,	
	(d)	National Insurance,	
	(e)	holidays with pay,	
	(f)	sickness benefits,	
	(g)	pension and life insurance benefits,	
	(h)	travel and subsistence,	
	(i)	car and car allowance,	
	(j)	office accommodation, equipment and supplies,	
	(k)	administration (including managerial, supervisory, clerical, administrative and accountancy staff),	

- (l) any tax, charge, levy impost or payment of any kind which the Operating Company shall be obliged to pay by law to make on behalf of persons employed by the Operating Company including all mobilisation and demobilisation requirements,
- (m) appropriate computers and general office applications and software,
- (n) printing, binding, photocopying and similar administrative tasks,
- (o) preparation, updating and submission to the Director of registers of staff, curricula vitae and other details,
- (p) all other costs and all charges whatsoever associated with the employment of any such professional.



**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 6300: FEE PERCENTAGES FOR DESIGN, PROCUREMENT AND MANAGEMENT****Generally**

- |             |  |
|-------------|--|
| Definitions | <p><b>1</b> The following definitions shall apply to this Series of this Schedule:</p> <ul style="list-style-type: none"> <li>(i) "Roadworks" means all work other than Bridgeworks.</li> <li>(ii) "Bridgeworks" means work on Structures.</li> <li>(iii) "Lane rental" means a Works Contract where the requirements of a lane rental Clause for a bonus for early completion and charge for late completion are included.</li> <li>(iv) "Cost" means the Estimated Construction Value of the Scheme as stated in the approved Statement of Intent, excluding any bonus adjustments or other charges related to lane rental Works Contracts.</li> </ul> |
|-------------|--|

**Fee Percentages for Design of Schemes to be Constructed by the Operating Company**

- 2** Fee percentages shall be used for the design of Schemes that are to be constructed by the Operating Company where the Estimated Construction Value as stated within the approved Statement of Intent is greater than £50,000.

Schemes shall be classified as follows:

- (i) Roadworks – having a Bridgeworks content of 40% or less of the Estimated Construction Value.
- (ii) Bridgeworks – having a Bridgeworks content of greater than 40% or more of the Estimated Construction Value.

- |       |   |
|-------|---|
| Units | <p><b>3</b> The unit of measurement shall be:</p> <ul style="list-style-type: none"> <li>(i) fees for design of Schemes to be constructed by the Operating Company where the Estimated Construction Value exceeds £50,000..... percentage.</li> </ul> |
|-------|---|

- |             |  |
|-------------|--|
| Measurement | <p><b>4</b> Fee percentages for Design shall be measured against the Estimated Construction Value as stated within the approved Statement of Intent and not the final outturn construction costs</p> <p>The quantity to be measured shall reflect the proportion of design completed in respect of the Estimated Construction Value.</p> |
|-------------|--|

- Itemisation 5 Separate items shall be provided for fees for the design of Schemes to be constructed by the Operating Company where the Estimated Construction Value exceeds £50,000 in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Design of Schemes Constructed by the Operating Company.
III	1 Roadworks.
	2 Bridgeworks.

**Design of Schemes to be Constructed by the Operating Company**

Item Coverage

- 6 The items for fees for Design of Schemes to be constructed by the Operating Company where the Estimated Construction Value exceeds £50,000 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

- (a) compliance with Schedule 6 Part 4.

**Fee Percentages for Design, Procurement and Management of Works Contracts**

- 7 Fee percentages shall be used for the Design, procurement and management of all Works Contracts.

Works Contracts shall be classified as follows:

- (i) Roadworks – having a Bridgeworks content of 40% or less of the Cost.
- (iii) Bridgeworks – having a Bridgeworks content of greater than 40% or more of the Cost.
- (iii) Lane rental – in combination with any of the above items (i) and (ii) under a lane rental regime.

Measurement

- 8 The percentages in for design, procurement and management of Works Contracts shall also apply to work on the Unit undertaken by others that the Scottish Ministers require the Operating Company to procure and or supervise.

Fee percentages for design, procurement and management of Works Contracts shall be measured against the Estimated Construction Value as stated within the approved Statement of Intent and not the final outturn construction costs.

The quantities to be measured shall reflect the proportions of design, procurement or management completed in respect of the Estimated Construction Value.

The Order of procurement and management for Works Contracts with element construction costs up to £350,000 shall be at the discretion of the Director.

- (i) the percentage entered against the first Cost band shall be applied to the element of Cost of a Works Contract below £350,000,

- (ii) the percentage entered against the second Cost band shall be applied to the element of the Cost of a Works Contract between £350,000 and £750,000,
- (iii) the percentage entered against the third Cost band shall be applied to the element of the Cost of a Works Contract between £750,000 and £1,500,000,
- (iv) the percentage entered against the fourth Cost band shall be applied to the element of the Cost of a Works Contract between £1,500,000 and £3,000,000,
- (v) the percentage entered against the fifth Cost band shall be applied to the element of the Cost of a Works Contract above £3,000,000,
- (vi) the percentage entered against extra over fees for management for Lane rental shall be applied to the total of management fees measured under the five cost bands above.

## Units

- 9 The unit of measurement shall be:
- (i) fees for Design, procurement and management of Works Contracts and extra over fees for management for Lane rental..... percentage.
- 10 Separate items shall be provided for the procurement and management of Works Contracts in accordance with Chapter II paragraphs 3 and 4 and the following:

## Itemisation

Group	Feature
I	1 Works Contracts.
II	1 Design
	2 Procurement.
	3 Management.
	4 Extra over management fees for Lane rental.
III	1 Roadworks.
	2 Bridgeworks.
IV	1 Element of Cost of a Works Contract below £350,000.
	2 Element of the Cost of a Works Contract between £350,000 and £750,000.
	3 Element of the Cost of a Works Contract between £750,000 and £1,500,000.
	4 Element of the Cost of a Works Contract between £1,500,000 and £2,000,000.
	5 Element of the Cost of a Works Contract between £2,000,000 and £3,000,000.
	6 Element of the Cost of a Works Contract above £3,000,000.

Note: Group IV shall only apply to Group II features 1, 2 and 3.

<b>Fees for Design of Works Contracts</b>	11	The items for the fees for Design of Works Contracts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item Coverage	(a)	compliance with Schedule 6 Part 4 in respect of Works Contracts.
<b>Fees for Procurement of Works Contracts</b>	12	The items for the fees for procurement of Works Contracts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item Coverage	(a)	compliance with paragraphs 1, 3 and 4 of Schedule 6 Part 1.
<b>Fees for Management of Works Contracts</b>	13	The items for fees for management of Works Contracts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item Coverage	(a)	compliance with paragraphs 1 and 5 of Schedule 6 Part 1.
		The following items shall not be included in the percentage adjustments but shall be included in Series 100 of the <i>Method of Measurement</i> for Highway Works of the Works Contract where appropriate:
	(a)	temporary accommodation for the Engineer,
	(b)	vehicles for the Engineer,
	(c)	communication system for the Engineer,
	(d)	operatives for the Engineer,
	(e)	scheme information boards,
	(f)	information signs.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 6400: ADJUSTMENT TO SCHEDULE OF RATES AND PRICES****Adjustment for Time Band**

- 1 The percentage adjustments apply to each of the time bands shown below, excluding time band reference 1 which is not subject to adjustment.

<b>Time Bands</b>		
<b>Time Band Reference</b>	<b>Day of Week</b>	<b>Hours</b>
1	Monday to Friday (inclusive)	0700 to 1900 inclusive
2	Monday pm to Tuesday am	1900 to 0700 inclusive
2	Tuesday pm to Wednesday am	1900 to 0700 inclusive
2	Wednesday pm to Thursday am	1900 to 0700 inclusive
2	Thursday pm to Friday am	1900 to 0700 inclusive
3	Friday pm to Monday am	1900 to 0700 inclusive
4	public holiday	1900* to †0700 inclusive

\* previous day to public holiday

† following day to public holiday

- 2 Each time band adjustment shall comprise a single percentage adjustment to cover all Series except for Series 700 which shall be separately measured and those Series stated in the Preambles to Schedule of Rates and Prices General Directions paragraph 20 as not being subject to any time band adjustment.
- 3 The unit of measurement shall be:
- Units (i) percentage adjustment to rates and prices for Operations ..... percentage.
- Measurement 4 The percentages shall be applied where relevant to the value of the relevant Operations executed within each time band.
- Itemisation 5 Separate items shall be provided for time band adjustments in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Percentage adjustment to rates for Operations.
II	1 Time band reference.

	III	1	Series 700.
		2	All other Series (excluding Series 700).
<b>Time Band Adjustment to Schedule of Rates and Prices</b>	6	The percentage adjustments inserted in the items for time band adjustment to Schedule of Rates and Prices shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item Coverage	(a)	all additional costs.	
		<b>Adjustment for Works Within and Below Non-Tidal Open Water or Tidal Water</b>	
	7	The unit of measurement shall be:	
Units	(i)	percentage adjustment to rates for Operations executed within and below non tidal open water ..... percentage,	
	(ii)	percentage adjustment to rates for Operations executed between mean high water springs and mean low waters springs ..... percentage,	
	(iii)	percentage adjustment to rates for Operations executed below mean low water springs ..... percentage.	
Measurement	8	The percentage adjustment shall be applied to the value of the Operations executed within and below non-tidal open water or tidal water below mean high water springs.	
Itemisation	9	Separate items shall be provided for Operations within and below non-tidal open water or tidal water below mean high water springs in accordance with Chapter II paragraphs 3 and 4 and the following:	
	Group	Feature	
	I	1	Percentage adjustment to rates for Operations.
	II	1	Within and below non-tidal open water.
		2	Within and below tidal water.
	III	1	Between mean high water springs and mean low waters springs.
		2	Below mean low water springs.
		Note: Group III shall only apply to Group II feature 2.	
<b>Adjustment for Works Within and Below Non-Tidal Open Water or Tidal Water</b>	10	The percentage adjustments inserted in the items for adjustment for Operations within and below non-tidal open water or tidal water to Schedule of Rates and Prices shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item Coverage	(a)	all additional costs.	

## SCOTTISH MINISTERS' REQUIREMENTS

### SCHEDULE 2 PART 1

#### METHOD OF MEASUREMENT

#### SERIES 6500: TIME WORK SCHEDULE

##### Time Work Schedule

##### Definition

- 1 The following terms and conditions shall apply to all work subject to an Order in accordance with Schedule 1 to be executed on a Series 6500: Time Work Schedule basis.

The term 'Sub-contractors' used in this Series shall include "Labour only" sub-contractors.

Sub-contractors labour plant and materials shall be included on the Statements submitted by the Operating Company and shall be paid at the rates and prices contained herein as though they are directly employed by the Operating Company in accordance with this Series. No adjustment or allowance shall be applied in respect of labour plant and materials supplied by sub-contractors.

For the purposes of labour the Operating Company's normal working hours shall be defined as 0700 hrs to 1900 hrs Monday to Friday inclusive and excluding public holidays.

Unless otherwise ordered by the Overseeing Organisation, Series 6500: Time Work Schedule items shall not be measured where there are appropriate items in Series 0200 to 6400 and Series 6700 to 6800 of this Schedule, or where similar items exist from which a rate can be deduced in accordance with Clause 10.1 of Schedule 1.

##### Labour

- 2 Trades and activities to be carried out by the labour type as detailed under this Series shall be as Table 1 below.





**Labour**

6 The items for Labour shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

## Item coverage

- (a) basic cost of labour for workmen,
- (b) plus rates for skill,
- (c) all other amounts of every kind paid in accordance with the rules of the appropriate wage fixing body,
- (d) non-productive overtime and costs associated therewith,
- (e) all bonuses, payments and incentives in excess of the basic cost of labour,
- (f) national insurance and surcharges,(g) normal contract work, third party and employers liability insurances,
- (h) annual and public holidays with pay and benefit scheme,
- (i) non-contributory sick pay scheme,
- (j) industrial training levy,
- (k) redundancy payments,
- (l) the Employment Rights Act 1996,
- (m) Site supervision and staff including foremen and walking gangers,
- (n) small tools, appliances and plant not provided for in paragraphs 7, 8 and 9 of this Series,
- (o) protective clothing,
- (p) transport within or related to the Unit,
- (q) welfare facilities,
- (r) establishment charges, overheads and profit,
- (s) preparation, updating and submission to the Director of registers of staff, curricula vitae,
- (t) travelling time to from within or related to the Unit,
- (u) pension and life insurance benefits,
- (v) cars, other vehicles, and car and other vehicle allowances,
- (w) running and maintenance costs of cars and other vehicles.

**Plant**

## Definitions

7 Basic cost of Plant and percentage adjustment:

- (i) the basic cost of Plant shall be charged at the Hire Rates set down in Section 4 Plant of the *Schedules of Dayworks Carried Out Incidental to Contract Work* published by the Civil Engineering Contractors Association current forty two days prior to the latest date for the Final Tender Submission.

		<p>The notices and conditions set down in Section 4 Plant of the <i>Schedules of Dayworks Carried Out</i> shall not apply,</p> <p>(ii) only the actual time plant is working or made available on the Site in accordance with sub paragraph (iv) of this paragraph 7 on Time Work Operations shall be chargeable,</p> <p>(iii) the period stated in Section 4 Plant of the <i>Schedules of Dayworks Carried Out Incidental to Contract Work</i> for plant not listed shall be the minimum chargeable,</p> <p>(iv) Plant to be made available on Site for a Time Work Operation and subject to an Order shall be charged at two-thirds of the rate obtained in accordance with sub-paragraph (i) of this paragraph 7 for the time the plant is made available but not used, subject to a maximum of 8 hours per Working Day and 40 hours in a working week,</p> <p>(v) rates for mechanical and other special plant not normally classed as small tools and not included in the Schedule of Rates and Prices or Section 4 Plant of the <i>Schedules of Dayworks Carried Out Incidental to Contract Work</i> shall be paid for at hire rates reasonably related to those obtained in accordance with sub-paragraph (i) of this paragraph 7,</p> <p>(vi) the Operating Company shall include for percentage adjustment to the basic cost of plant in Section 4 Plant of the <i>Schedule of Dayworks Carried Out Incidental to Contract Work</i>. The adjustment may be positive or negative.</p>						
Units	8	<p>The units of measurement shall be:</p> <p>(i) basic cost of plant ..... sum,</p> <p>(ii) percentage adjustment to the basic cost of plant ..... percentage.</p>						
Itemisation	9	<p>Separate items shall be provided for the basic cost of Plant in accordance with Chapter II paragraphs 3 and 4 and the following:</p> <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Basic cost of plant.</td></tr><tr><td></td><td>2 Percentage adjustment to the basic cost of plant.</td></tr></table>	Group	Feature	I	1 Basic cost of plant.		2 Percentage adjustment to the basic cost of plant.
Group	Feature							
I	1 Basic cost of plant.							
	2 Percentage adjustment to the basic cost of plant.							
Basic Cost of Plant	10	<p>The basic cost of Plant for Time Work shall in accordance with Section 4 Plant of the <i>Schedules of Dayworks Carried Out Incidental to Contract Work</i> and in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:</p>						

Item coverage	(a)	all associated costs irrespective of whether plant is owned, hired or leased,
	(b)	fuel,
	(c)	consumable stores,
	(d)	repairs,
	(e)	maintenance,
	(f)	insurance,
	(g)	establishment charges overheads and profit,
	(h)	be exclusive of operator, driver and attendants.

**Percentage Adjustment to the Basic Cost of Plant**

11 The percentage adjustment to the basic cost of Plant shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage	(a)	owned, hired or leased plant,
	(b)	general servicing, overheads and replacements,
	(c)	fuel distribution,
	(d)	transporting within or related to the Unit,
	(e)	all other charges and costs not recovered in basic cost of plant,
	(f)	discounts.

**Materials**

Definitions	12	Basic cost of materials and percentage adjustment:
	(i)	the basic cost of materials shall be charged at the net invoiced price of materials delivered to the Operating Company,
	(ii)	the Operating Company shall include for percentage adjustment to the basic cost of materials in Section 2 Materials of the <i>Schedule of Dayworks Carried Out Incidental to Contract Work</i> .

Units	13	The units of measurement shall be:
	(i)	basic cost of materials ..... sum,
	(ii)	percentage adjustment to the basic cost of materials ..... percentage.

Itemisation	14	Separate items shall be provided for the basic cost of materials in accordance with Chapter II paragraphs 3 and 4 and the following:
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Group	Feature
I	1 Basic cost of materials.
	2 Percentage adjustment to the basic cost of materials.

**Basic Cost of Material**

15 The basic cost of material for Time Work shall in accordance with Section 2 Materials of the *Schedules of Dayworks Carried Out Incidental to Contract Work* and in

## Supplementary Services

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<b>Percentage Adjustment to Invoiced Costs for Supplementary Services.</b>  Item coverage	21	I	1	Invoiced costs of accounts.
			2	Percentage adjustment to invoiced costs.
		II	1	Supplementary services.
			2	Nominated Subcontractors.
			3	Tipping charges.
		The percentage adjustment to invoiced costs for supplementary services shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:		
		(a)	general management of the relevant services,	
		(b)	obtaining quotations and placing orders,	
		(c)	payment of invoices and subsequent inclusion of the relevant amounts in monthly statements including any interest costs,	
		(d)	any cost incurred by the Operating Company in respect of supplementary services,	
		(e)	procurement (as Series 6300 paragraph 5),	
		(f)	supervision (as Series 6300 paragraph 6),	
		(g)	establishment charges overheads and profit,	
		(h)	labours in connection with Nominated Subcontractors as detailed in the Preambles to the Schedule of Rates and Prices General Directions paragraph 8.	

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 6700: CHANGES IN SCOPE OF OPERATIONS****Changes in the Extent of the Unit Impacting on Core Operations Items in Series 6100**

Definition	<p>The provisions of this Series shall not apply to Operations, activities duties and responsibilities in any other part of the Trunk Road network outside the boundary of the Unit.</p> <p>If at any time during the currency of this Contract the extent of the Unit increases or decreases over and above the changes included within Network 2, items in this Series shall be measured to cover the impact of the change on Core Operations items measured in Series 6100. Measurement of these items shall be deemed to cover the impact on all items within Series 6100.</p> <p>Cumulative spans of bridges are the summation of the individual clear span(s) that makes up the bridge.</p>
Units	<p>1 The units of measurement shall be:</p> <p>(a) addition/deduction for change in the extent of the Unit for carriageways ..... kilometre/month,</p> <p>(b) addition/deduction for change in the extent the Unit for Structures ..... number/month.</p>
Measurement	<p>2 The measurement of the change in the extent of Trunk Roads in the Unit shall be the length of carriageway added to or removed from the Unit.</p> <p>No deduction from the measurement of carriageway shall be made for structures.</p> <p>Roundabouts and slip roads shall be measured as single carriageway.</p> <p>For slip roads the length shall be the distance between the mid-point of the nominal channel at its junctions. Roundabouts shall be measured along the centre-line between the outer edges of its carriageway.</p> <p>A footbridge shall be defined as the totality of the Structure.</p> <p>Additions to the length of the road network shall be measured as a positive quantity. Deductions from the length of the road network shall be measured as a negative quantity.</p> <p>Additions to the number of Structures shall be measured as a positive quantity. Deduction from the number of Structures shall be measured as a negative quantity.</p>

## Itemisation

- 3 Separate items shall be provided for changes in the extent of the Trunk Road network impacting on Core Operation items in Series 6100 in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Addition/deduction for change in the extent of the Unit.
II	1 Carriageway. 2 Structure.
III	1 Bridge with cumulative clear spans not exceeding 10 metres. 2 Bridge with cumulative clear spans exceeding 10 metres but not exceeding 50 metres. 3 Bridge with cumulative clear spans exceeding 50 metres. 4 Footbridge. 5 Sign gantry/signal gantry.

Note: Group III shall only apply to Group II feature 2.

**Changes in the Extent of the Unit Impacting on Core Operation Items in Series 6100**

- 4 The items for changes in the extent of the Unit impacting on Core Operation items in Series 6100 shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:

## Item coverage

- (a) all costs or savings occasioned by the change.

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 6800: MISCELLANEOUS****Anti-Graffiti Coatings**

Units	1	The units of measurement shall be: (i) apply anti-graffiti coatings ..... square metre.				
Measurement	2	The measurement of anti-graffiti coatings shall be the plane surface area.				
Itemisation	3	Separate items shall be provided for anti-graffiti coatings in accordance with Chapter II paragraphs 3 and 4 and the following:				
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Anti-graffiti coatings.</td></tr></table>	Group	Feature	I	1 Anti-graffiti coatings.
Group	Feature					
I	1 Anti-graffiti coatings.					
<b>Anti-Graffiti Coatings</b>	4	The items for anti-graffiti coatings shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:				
Item coverage		(a) preparation of surfaces, (b) masking and other measures to protect adjacent untreated work and the removal of masking and other measures upon completion, (c) preparing materials for applications, (d) complying with any special requirements in respect of ambient conditions including the containment of dust and debris and for intervals between successive operations and applications, (e) multiple coat as recommended by manufacturer, (f) sealer/primer as recommended by manufacturer, (g) preparation and supply of system and data sheets, (h) measures for protection.				

**Vehicle Restraint Systems**

Units	6	The unit of measurement shall be: (i) re-tensioning safety barriers .....metre.						
Itemisation	7	Separate items shall be provided for re-tensioning safety barriers in accordance with Chapter II paragraphs 3 and 4 and the following:						
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Re-tensioning.</td></tr><tr><td>II</td><td>1 Safety barrier.</td></tr></table>	Group	Feature	I	1 Re-tensioning.	II	1 Safety barrier.
Group	Feature							
I	1 Re-tensioning.							
II	1 Safety barrier.							



		2	Wire rope.	
		III	1	Single sided.
			2	Double sided.
<b>Re-tensioning Safety Barrier</b>	8	The items for re-tensioning safety barrier shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a)	applying a releasing agent to adjuster assembly,	
		(b)	ensuring the nut is capable of travel along the whole of the threaded portion of the adjuster bolt,	
		(c)	remove existing and replace beam to post screws, nut and washers,	
		(d)	tighten adjuster bolt to correct torque appropriate to the ambient temperature,	
		(e)	tighten lock nut to correct torque,	
		(f)	tighten beam to post bolt to the correct torque,	
		(g)	adjust wire rope rigging screws to achieve tension appropriate to the ambient temperature,	
		(h)	additional adjuster assemblies.	
	<b>Drainage</b>			
Units	9	The units of measurement shall be:		
		(i)	low pressure high volume jetting .....metre,	
		(ii)	extra over any item of low pressure high volume jetting .....metre.	
Itemisation	10	Separate items shall be provided for low pressure high volume jetting in accordance with Chapter II paragraphs 3 and 4 and the following:		
		Group	Feature	
		I	1	Low pressure high volume jetting.
		II	1	Piped drain.
			2	Combined drainage and kerb system.
			3	Linear drainage channel system.
		III	1	Different diameters.
			2	Any diameter.
			3	Any type.
		IV	1	Extra over for use of root cutter.
<b>Low Pressure High Volume Jetting</b>	11	The items for low pressure high volume jetting shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a)	cleaning existing drainage systems (as Series 500 paragraph 84).	

**Extra Over any item of Jetting for use of Root Cutter** 12 The items for extra over any item of jetting for use of root cutter shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage (a) all additional costs for use of root cutter.

### **Cleaning of Street Furniture**

Units 13 The unit of measurement shall be:

(a) cleaning of sign faces, sign faces on gantry, marker posts hazard posts, ECP cylinders, bollard, refuge beacon.....number,

(b) painted safety fence.....linear metre.

Itemisation 14 Separate items shall be provided for cleaning of street furniture in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Cleaning.
II	1 Sign face.
	2 Marker post, hazard post, ECP cylinder, bollard or refuge beacon.
	3 Painted safety fence.
III	1 Not exceeding 5.0 square metres in area.
	2 Exceeding 5.0 square metres but not exceeding 10.0 square metres.
	3 Exceeding 10.0 square metres but not exceeding 20.0 square metres.

Note: Group III shall only apply to Group II feature 1.

**Cleaning of Street Furniture** 15 The items for cleaning of street furniture shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage (a) detergent cleaner,

(b) water supply and all costs in connection therewith,

(c) cleaning spillage on hard surfaces below signs.

### **Landscape Maintenance**

#### **Grass Cutting**

Units 16 The unit of measurement shall be:

(i) cutting close mown grass, amenity grass, grass banks and ditches, grass in road verge in selected full width cuts.....square metre,

(ii) close mown grass trimming edges, trimming edges, amenity grass trimming edges, close mown grass reforming edges, grass reforming edges, amenity grass reforming edges, .....linear metre,

		(iii) cutting grass in verge in 1.2m wide swathe cut ..... kilometre.														
Itemisation	17	Separate items shall be provided for grass cutting, trimming edges and reforming edges in accordance with Chapter II paragraphs 3 and 4 and the following:														
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Grass cutting.</td></tr><tr><td>II</td><td>1 In close mown areas.</td></tr><tr><td></td><td>2 In amenity areas.</td></tr><tr><td></td><td>3 In banks and ditches.</td></tr><tr><td></td><td>4 In highway verge in 1.20 metre swathe cut.</td></tr><tr><td></td><td>5 In highway verge in selected full width cuts.</td></tr></table>	Group	Feature	I	1 Grass cutting.	II	1 In close mown areas.		2 In amenity areas.		3 In banks and ditches.		4 In highway verge in 1.20 metre swathe cut.		5 In highway verge in selected full width cuts.
Group	Feature															
I	1 Grass cutting.															
II	1 In close mown areas.															
	2 In amenity areas.															
	3 In banks and ditches.															
	4 In highway verge in 1.20 metre swathe cut.															
	5 In highway verge in selected full width cuts.															
Grass Cutting	18	The items for grass cutting shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:														
Item coverage		(a) mowing, cutting or strimming, (b) taking precautions to avoid any damage, (c) cutting around posts, signs and superficial obstructions, (d) cutting around trees, cutting around flowering bulbs, (e) removing cuttings from paved areas and other hardstandings, (f) removing seats, litter bins, temporary signs and other similar features, and replacing upon completion, (g) removal of litter, stones and other deleterious materials, (h) dispersal of cuttings from non-hard areas evenly over the sward.														
		<b>Hedge Trimming</b>														
Units	19	The units of measurement shall be:														
		(i) trimming hedges .....linear metre.														
Itemisation	20	Separate items shall be provided for hedge trimming in accordance with Chapter II paragraphs 3 and 4 and the following:														
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Trimming hedges.</td></tr><tr><td>II</td><td>1 Less than 2 metres high.</td></tr><tr><td></td><td>2 Over 2 metres high.</td></tr><tr><td>III</td><td>1 One side and top.</td></tr><tr><td></td><td>2 Both sides and top.</td></tr></table>	Group	Feature	I	1 Trimming hedges.	II	1 Less than 2 metres high.		2 Over 2 metres high.	III	1 One side and top.		2 Both sides and top.		
Group	Feature															
I	1 Trimming hedges.															
II	1 Less than 2 metres high.															
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III	1 One side and top.															
	2 Both sides and top.															
Hedge Trimming	21	The items for hedge trimming shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:														

- Item coverage
- (a) trimming,
  - (b) taking precautions to avoid damage,
  - (c) disposal of all hedge cuttings, litter and debris,
  - (d) where appropriate shredding and disposal on Site,
  - (e) removal of clippings lodged in top or sides of the hedge,
  - (f) removal of all litter and debris from within the Structure of the hedge.

### Litter Clearance

- | Units                   | 26                               | The units of measurement shall be:   |       |         |   |                                  |    |                 |  |                 |
|-------------------------|----------------------------------|--|-------|---------|---|----------------------------------|----|-----------------|--|-----------------|
|                         |                                  | (i) litter clearance ..... kilometre.  |       |         |   |                                  |    |                 |  |                 |
| Measurement             | 27                               | Measurement shall be the linear length of associated highway irrespective of the width of clearance.   |       |         |   |                                  |    |                 |  |                 |
| Itemisation             | 28                               | Separate items shall be provided for keeping land clear of litter and refuse in accordance with Chapter II paragraphs 3 and 4 and the following:   |       |         |   |                                  |    |                 |  |                 |
|                         |                                  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Group</th> <th style="text-align: left;">Feature</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>1 Litter clearance from highway.</td> </tr> <tr> <td>II</td> <td>1 Grade C to B.</td> </tr> <tr> <td></td> <td>2 Grade D to B.</td> </tr> </tbody> </table> | Group | Feature | I | 1 Litter clearance from highway. | II | 1 Grade C to B. |  | 2 Grade D to B. |
| Group                   | Feature                          |  |       |         |   |                                  |    |                 |  |                 |
| I                       | 1 Litter clearance from highway. |  |       |         |   |                                  |    |                 |  |                 |
| II                      | 1 Grade C to B.                  |  |       |         |   |                                  |    |                 |  |                 |
|                         | 2 Grade D to B.                  |  |       |         |   |                                  |    |                 |  |                 |
| <b>Litter clearance</b> | 29                               | The items for litter clearance shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:  |       |         |   |                                  |    |                 |  |                 |
| Item coverage           |                                  | <ul style="list-style-type: none"> <li>(a) picking up litter,</li> <li>(b) placing in sacks,</li> <li>(c) disposal of material (as Series 600 paragraph 39).</li> </ul>  |       |         |   |                                  |    |                 |  |                 |

**SCOTTISH MINISTERS' REQUIREMENTS****SCHEDULE 2 PART 1****METHOD OF MEASUREMENT****SERIES 7000: LUMP SUM PRICES****Payment of Accounts**

Definition	1	Services involving the payment of accounts shall include but not be limited to the following:	
		(a)	payment of Undertakers' accounts,
		(b)	payment of Network Rail Possession charge accounts.
Units	2	The units of measurement shall be:	
		(i)	invoiced costs of accounts ..... sum,
		(ii)	percentage to be added to invoiced costs.
Measurement	3	The measurement of invoiced costs for payment of accounts shall be the value of invoices received, after any discounts given except in respect of any discount for prompt payment not exceeding 2½% which may be retained by the Operating Company.	
		The percentage adjustment shall be applied to the invoiced costs excluding Value Added Tax.	
Itemisation	4	Separate items shall be provided for invoiced costs of accounts in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Invoiced costs of Undertakers' accounts.
			2 Invoiced costs of Network Rail accounts.
			3 Invoiced costs of Marine Scotland Act licences
			4 Invoiced costs of Forth Ports Works licences
			5 Pension Fund Payments excluding Additional Pension Costs paid to the LGPS
			6 New Employee Pension Contributions excluding Excess New Employee Contributions
			7 Lease payments to Crown Estate for lease of slipway
			8 Percentage to be added to invoiced costs of Undertakers' accounts.
			9 Percentage to be added to invoiced costs of Network Rail accounts.
<b>Percentage to be Added to Invoiced Costs for</b>	5	The percentage to be added to invoiced costs of Undertakers' accounts. shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	

**Undertakers' Accounts.**

- Item coverage
- (a) payment of invoices and subsequent inclusion of the relevant amounts in monthly statements including any interest costs,
  - (b) any other costs in connection with the payment of invoices.

**Percentage to be Added to Invoiced Costs for Network Rail Possession Charge Accounts**

- 6 The percentage to be added to invoiced costs of Network Rail Possession charge accounts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

- Item Coverage
- (a) payment of invoices and subsequent inclusion of the relevant amounts in monthly statements including any interest costs,
  - (b) all costs in connection with working on or in the vicinity of Network Rail land,
  - (c) any other costs in connection with the payment of invoices.

**Lump Sum Quotations**

- Units
- 7 The units of measurement shall be:
- (i) Lump Sum Quotation for the construction of Schemes costing less than £350,000 .....sum.

- Itemisation
- 8 Separate items shall be provided for Lump Sum Quotations in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
1	1 Lump Sum Quotation.
	2 Lump Sum Quotation for the Construction of Schemes costing less than £350,000.

- Lump Sum Quotation**
- 9 The item for Lump Sum Quotation shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

- Item coverage
- (a) all costs to undertake the Operations as a Lump Sum Quotation.

**Lump Sum Quotation for the construction of Schemes costing less than £350,000**

- 10 The item for Lump Sum Quotation for the construction of Schemes costing less than £350,000 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

- Item coverage
- (a) all costs to undertake the Operations as a Lump Sum Quotation.