SCHEDULE 11

Monitoring

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- The Service Provider shall carry out those inspections, surveys, tests and assessments that it is required to carry out during the Contract Term, pursuant to clause 6 (Surveys and Inspections) of this Contract and in accordance with Method Statement 13 (Inspections, Assessments and Monitoring).
- 2. This schedule 11 sets out the specific Monitoring Methods required to monitor performance of the Services described in schedule 2 (Output Specification). In respect of each Monitoring Method set out within this schedule 11, the Service Provider shall carry out monitoring against the Performance Targets as set out in schedule 2 (Output Specification). In addition, in respect of certain Performance Targets as set out below, the Service Provider shall carry out monitoring as specifically described in this schedule 11.

3. Monitoring Method A

The Service Provider shall carry out those inspections, surveys, tests and assessments to enable the Service Provider and the Authority to run the NCI Calculation Methodology, the FWCI Calculation Methodology, the KBCI Calculation Methodology, the VGCI Calculation Methodology and the CTCI Calculation Methodology at least once by 1 November of each Contract Year.

4. Monitoring Method B

The Service Provider shall carry out Structural Assessments in accordance with paragraph 14.3.4 of Method Statement 13 (*Inspections, Assessments and Monitoring*).

5. Monitoring Method C

The Service Provider shall carry out photometric tests in accordance with Method Statement 2 (Network and Infrastructure Condition).

6. Monitoring Method D

The Service Provider shall provide to the Authority, as part of the Annual Service Report:

- 6.1 statements confirming that:
 - 6.1.1 Street Lighting has been replaced or upgraded in accordance with the Street Lighting Required Outcomes set out in this Contract;

- 6.1.2 Street Lighting that has been upgraded is being remotely monitored within two years of such upgrade;
- 6.1.3 Traffic Signal Controllers have been replaced in accordance with the requirements of this Contract, together with a detailed analysis of the age profile of all Traffic Signal Controllers situated on the Project Network on the date that this annual statement is submitted;
- 6.1.4 all materials used in the performance of the Services that are required pursuant to Performance Standard 1B have been used in accordance with:
 - 6.1.4.1 the requirements of such Performance Standard 1B; and
 - 6.1.4.2 the Annual Programme for the relevant Contract Year (as such Annual Programme is amended or updated pursuant to clause 11 (Service Provider Programmes)) of this Contract;
- 6.1.5 the correct type of paint and thermoplastic has been laid pursuant to paragraph 2.7.7.1(b) of part 2 of schedule 2 (Output Specification); and
- 6.1.6 all Road Markings are located and aligned in accordance with the Traffic Signs and General Directions 2002 (paragraph 2.7.7.1(e) of part 2 of schedule 2 (Output Specification));
- 6.2 details of all Traffic Regulation Orders that have been:
 - 6.2.1 applied for by the Service Provider; and
 - 6.2.2 granted by the Authority,

in the preceding Contract Year;

- all information relating to the Service Provider's obligations pursuant to paragraphs 2.7.4.1(f) and (g) of part 2 of schedule 2 (*Output Specification*); and
- 6.4 a summary (in such form as the Parties shall agree (acting reasonably) on or prior to the Planned Service Commencement Date) of the instances where the Service Provider has failed to comply with its obligation to provide the Services in accordance with schedule 2 (Output Specification) in respect of those Performance

Targets that were due to be monitored in the Contract Year to which the relevant Annual Service Report applies in accordance with the requirements of this Contract;

together with all supporting information that the Authority may (acting reasonably) require in support of such confirmation (including, without limitation, any information contained in the Management Information System).

7. Monitoring Method E

The Service Provider shall carry out those General Inspections and / or Principal Inspections that it is required to carry out during the Contract Term.

8. Monitoring Method F

The Service Provider shall, as part of the Actual Monthly Monitoring Report, submit:

- a detailed summary (in such form as the Parties shall agree (acting reasonably) on or prior to the Planned Service Commencement Date) of the instances where the Service Provider has failed to comply with its obligation to provide the Services in accordance with schedule 2 (*Output Specification*) in respect of those Performance Targets that were due to be monitored in the Month to which the relevant Actual Monthly Monitoring Report applies in accordance with the requirements of this Contract; and
- 8.2 all supporting information that the Authority may (acting reasonably) require in support of such confirmation (including without limitation any information contained in the Management Information System).

9. Monitoring Method G

The Service Provider shall carry out outage detection cycles in accordance with Method Statement 3 (Network Performance).

10. Monitoring Method H

The Service Provider shall carry out those Safety Inspections that it is required to carry out during the Contract Term.

11. Monitoring Method I

The Service Provider shall carry out those Special Inspections that it is required to carry out during the Contract Term.

12. Monitoring Method J

The Service Provider shall carry out those Service Inspections that it is required to carry out during the Contract Term pursuant to clause 6 (Surveys and Inspections) of this Contract provided that:

- in relation to those Service Inspections which are carried out in order to monitor the Performance Target set out in paragraphs 2.7.7.1(c), 2.7.7.1(d) and 2.16.17.1 of part 2 of schedule 2 (*Output Specification*), such Service Inspections shall be carried out on those Project Network Parts that are selected at random by the Authority no more than once annually and notified to the Service Provider by the Authority within a reasonable time to allow the Service Provider to include such Service Inspections in the Annual Programme (as such Annual Programme is updated or amended from time to time in accordance with this Contract);
- 12.2 in relation to those Service Inspections which are carried out in order to monitor the Performance Target set in paragraph 2.7.9.1(a) of part 2 of schedule 2 (*Output Specification*), such Service Inspections shall be carried out following wet weather conditions; and
- in relation to those Service Inspections which are carried out in order to monitor the Performance Target set in paragraphs 2.7.9.1(b) and 2.7.9.2 of part 2 of schedule 2 (Output Specification), such Service Inspections shall be carried out:
 - 12.3.1 within one (1) hour of an Event Storm; and
 - 12.3.2 on those Project Network Parts that are selected at random by the Authority no more than once annually and notified to the Service Provider by the Authority within sufficient time to allow the Service Provider to include such Service Inspections within the Annual Programme (as such Annual Programme is updated or amended from time to time in accordance with this Contract).

13. Monitoring Method K

The Service Provider shall, within five (5) Business Days of the completion of any works:

involving the removal or replacement of Traffic Signs pursuant to paragraph 2.7.6.1(g) of part 2 of schedule 2 (Output Specification);

- involving the replacement of Road Markings pursuant to paragraph 2.7.7.1(f) of part 2 of schedule 2 (*Output Specification*); and
- carried out as a result of the Service Provider complying with it obligations set out in paragraph 2.12.3 of part 2 of schedule 2 (Output Specification),

issue a certificate to the Authority confirming that all such works are complete so that they comply with the applicable requirements of schedule 2 (Output Specification).

14. Monitoring Method L

The Service Provider shall carry out a DVI once in the first Contract Year and then biennially thereafter.

15. Monitoring Method M

The Service Provider shall submit to the Authority a weekly report setting out in full all details of the Service Provider's performance in respect of the following:

- 15.1 (in respect of Festive Decorations) paragraphs 2.10.3.1 and 2.10.3.2 of part 2 of schedule 2 (*Output Specification*) and paragraphs 1.3, 1.5, 1.7, 1.9 and 1.10 of part 5 of schedule 14 (*Call-Off Agreements*) during the Festive Period;
- 15.2 (in respect of tree removals as a result of a Category 1 Defect) paragraph 2.3.13 of part 3B of schedule 2 (*Output Specification*);
- 15.3 (in respect of Traffic Management measures) paragraphs 2.11, 2.12 and 2.16 of part 7 of schedule 2 (*Output Specification*);
- 15.4 (in respect of Customer Care Targets and the Authority Weekly Briefing) paragraphs 2.8 and 2.10.1 of part 8 of schedule 2 (Output Specification);
- 15.5 (in respect of Special Event Services) paragraph 1.8 of part 2 of schedule 14 part 5 of schedule 14 (*Call-Off Agreements*);
- 15.6 (in respect of instruction from the Authority to plant additional Highway trees) paragraph 1 of part 4 of schedule 14 (*Call-Off Agreements*).

16. Monitoring Method N

The Service Provider shall carry out those arboricultural inspections that it is required to carry out during the Contract Term.

17. Monitoring Method O

The Service Provider shall submit to the Authority on a daily basis (and in accordance with the relevant provisions of part 4 of schedule 2 (*Output Specification*)) during the Winter Maintenance Period:

- details of the member of staff whom the Service Provider is required to provide pursuant to paragraph 2.1.2 of part 4 of schedule 2 (*Output Specification*);
- 17.2 the Daily Actions List;
- 17.3 the Updated Daily Actions List; and
- 17.4 the Daily Actions Report.

APPENDIX 1 TO SCHEDULE 11 (MONITORING)

		Initial Accusages Poct	
AGIC Cub Contra		tintial Accuracy Test	Monthly Accuracy Test
MIS Sub-System	Crincal Fields	(undertaken monthly until expiry of the	(undertaken monthly prior to the preparation of
		Moratorium Period for each sub-system)	the draft Monthly Monitoring Report)
Project Network	 Project Network Part 	During the Mobilisation Period and the first	On completion of the Project Network
Inventory	Description (e.g.: Sign,	Contract Year, the Service Provider shall carry	Inventory update, the Service Provider shall
	Gully)	out a gap analysis of the existing Project	procure that all changes to the asset inventory
	■ Location (E & N) within	Network Inventory and shall then undertake	are identified by the works ordering process or
	both the Project Network	data collection to bring it up to the 99%	through the Authority for Authority works
	Inventory and the GIS	accuracy required. During the data collection,	(including HWA Works and New Build) and
	 Current status (i.e. if a 	the Service Provider shall procure that all its	Third Party works. These will be flagged and
	Project Network Part has	subcontractor(s) undertake quality checks of	the Service Provider shall ensure that the AM
	been installed but is not yet	the data on a daily basis based on a 2%	undertakes inventory updating for these works.
	fully operable, this needs to	sample. Where data fails to meet the 99%	Where possible, the Service Provider shall
	be recorded on the Project	accuracy requirement, the Service Provider	procure that any changes by the Service
	Network Inventory but	shall reject all work for that day and shall	Provider are automated within the MIS.
	stated as such).	procure that it is resubmitted When the sub	A sadie December
		contractor is satisfied the quality requirements	Audit Frocess:
		have been met and demonstrated to the Service	The Service Provider shall ensure that the AM
	-	Provider's satisfaction, the Service Provider	produces a report of all changes to the Project
		shall procure that its asset manager ("AM")	inctwork within the previous Month and
		undertakes his own initial 5% audit checks of	The Control of the co
		the data submitted by the sub contractor and if	inc service rioting and ensure that this
		this random sample of data fails to meet the	also sheets of the comment of the
		requirements the whole batch of data will be	and checks of the accuracy of oil site
		rejected. Where the AM is satisfied that the	Service Describe that a service of the service of t
		quality levels are consistent and meet the 99%	defected are marified
		accuracy requirement for a period of at least	תבוכרוכת מוב ובכוווזבת.
		twelve (12) Months then the random sample	Rectification Process (does not form part of
		will be reduced to 2%. The Service Provider	the Monthly Accuracy Test):
		shall ensure that the audit covers the accuracy	Where accuracy falls below the required 99%,
		of the critical fields as a minimum. The	the Service Provider shall ensure that a further
		Service Provider shall ensure that all data is	2% sample is audited and the total of all

		Initial Accuracy Test	Monthly Accuracy Test
MIS Sub-System	Critical Fields	(undertaken monthly until expiry of the Moratorium Period for each sub-system)	(undertaken monthly prior to the preparation of the draft Monthly Monitoring Report)
		date and time stamped to allow the data to be reconciled with changes made by the Service Provider after data collection has occurred. The Service Provider shall ensure that data is validated for accuracy during loading into the system to trap any obvious errors The Parties acknowledge and agree that rules will be written for this process once the MIS Sub-Systems are developed and in operation.	samples are aggregated and the accuracy calculation repeated. The Service Provider shall repeat this sampling and correction process until the 99% accuracy figure is achieved.
Powered Apparatus Inventory	 Description Location (E & N) within both the Powered Apparatus Inventory and the GIS Current status (i.e. if Powered Apparatus has been installed but is not yet fully operable, this needs to be recorded on the Powered Apparatus Inventory but stated as such) Metered or Unmetered Nature of power requirement Power consumption 	During the Mobilisation Period and the first Contract Year, the Service Provider shall carry out a gap analysis of the existing Powered Apparatus Inventory and shall then undertake data collection to bring it up to the 99% accuracy required. During the data collection, the Service Provider shall procure that all its subcontractor(s) undertake quality checks of the data on a daily basis based on a 2% sample. Where data fails to meet the 99% accuracy requirement, the Service Provider shall procure that it is resubmitted. When the sub contractor is satisfied the quality requirements have been met and demonstrated to the Service Provider shall procure that its asset manager ("AM") undertakes his own initial 5% audit checks of the data submitted by the sub contractor and if this random sample of data fails to meet the requirements the whole batch of data will be rejected. Where the AM is satisfied that the	On completion of the Powered Apparatus Inventory update, the Service Provider shall procure that all changes to the asset inventory are identified by the works ordering process or through the Authority for Authority works (including HWA Works and New Build) and Third Party works. These will be flagged and the Service Provider shall ensure that the AM undertakes inventory updating for these works. Where possible, the Service Provider shall procure that any changes by the Service Provider are automated within the MIS. Audit Process: The Service Provider shall ensure that the AM produces a report of all changes to the Project Network within the previous Month and undertakes a random 2% sample for checking. The Service Provider shall ensure that this includes site visits to check data accuracy and also checks of the accuracy of off site information recorded within the MIS. The

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MIS Sub-System C	Critical Fields	Initial Accuracy Test (undertaken monthly until expiry of the Moratorium Period for each sub-system)	Monthly Accuracy Test (undertaken monthly prior to the preparation of the draft Monthly Monitoring Report)
Underground Description Apparatus Inventory Underground Location (linear feature) within both the Underground Apparatus Inventory and the GIS		quality levels are consistent and meet the 99% accuracy requirement for a period of at least twelve (12) Months then the random sample will be reduced to 2%. The Service Provider shall ensure that the audit covers the accuracy of the critical fields as a minimum. The Service Provider shall ensure that all data is date and time stamped to allow the data to be reconciled with changes made by the Service Provider after data collection has occurred. The Service Provider shall ensure that data is validated for accuracy during loading into the	detected are rectified. Rectification Process (does not form part of the Monthly Accuracy Test): Where accuracy falls below the required 99%, the Service Provider shall ensure that a further 2% sample is audited and the total of all samples are aggregated and the accuracy calculation repeated. The Service Provider shall repeat this sampling and correction process until the 99% accuracy figure is achieved.
s und		quality levels are consistent and meet the 99% accuracy requirement for a period of at least twelve (12) Months then the random sample will be reduced to 2%. The Service Provider shall ensure that the audit covers the accuracy of the critical fields as a minimum. The Service Provider shall ensure that all data is date and time stamped to allow the data to be reconciled with changes made by the Service Provider after data collection has occurred. The Service Provider shall ensure that data is validated for accuracy during loading into the	Rectification Process (does not form part of the Monthly Accuracy Test): Where accuracy falls below the required 99%, the Service Provider shall ensure that a further 2% sample is audited and the total of all samples are aggregated and the accuracy calculation repeated. The Service Provider shall repeat this sampling and correction process until the 99% accuracy figure is achieved.

		Initial Accuracy Test	Monthly Accuracy Test
MIS Sub-System	Critical Fields	(undertaken monthly until expiry of the Moratorium Period for each sub-system)	(undertaken monthly prior to the preparation of the draft Monthly Monitoring Report)
		inclusion in the Underground Apparatus Inventory by a competent person with the relevant skill and experience who is independent of the person who recorded the information. Therefore, the Service Provider shall ensure that each record of Underground Apparatus carries two signatures. The Service Provider shall procure that the AM ensures that each record of Underground Apparatus is added to the Underground Apparatus Inventory to meet the requirements of	Once all critical fields in relation to missing records are added to the Underground Apparatus Inventory it shall be deemed to be 100% accurate.
		paragraph 2.2.2.3(b) of part 8 of schedule 2 (Output Specification). At expiry of the relevant Moratorium Period, the Service Provider shall measure accuracy by comparing the number of individual records with the number of records held on the inventory and reconciling that number with the records handed over from the Authority together with the works undertaken since the Service Commencement Date.	
Routine Maintenance and Management System	 Safety Inspections and Service Inspections Works orders start dates, end dates, location and details of work undertaken 	Safety Inspections and Service Inspections carried out to the required timescales and to the times shown in the Annual Programme. Audit Process: The methodology for ensuring the accuracy of the Safety Inspections and Service Inspections and response times is set out in Method Statement 13 and the Service Provider shall comply with such methodology: The Service Provider shall undertake a 5% sample comparing programmed Safety	The Service Provider shall undertake a 2% audit sample of records for the previous Month as described under initial accuracy checks.

		Initial Accuracy Test	Monthly Accuracy Test
MIS Sub-System	Critical Fields	(undertaken monthly until expiry of the	(undertaken monthly prior to the preparation of
		Inspections and Service Inspections and	the second property
		completed Safety Inspections and Service	
		Inspections to determine accuracy of the records stored within the MIS.	
		For works order accuracy the Service Provider	
		shall check 5% of all orders to ensure that all	
		critical fields are correctly completed and	
		within time scales set out in the contract and	
		inventory changes are identified.	
Bridge Management	 Description Location (F & N) within 	The same process applies as set out above for the Project Network Inventory in respect of	The same process applies as set out above for
System	both the Bridge	recording details of the Bridges and Structures	recording details of the Bridges and Structures
	Management System and	and the Routine Maintenance and	and the Routine Maintenance and Management
	the GIS	Management System in respect of for General	System in respect of for General Inspections
	 Last Principal Inspection 	inspections and Frincipal inspections.	and Principal inspections.
	 Works identified from 		
	surveys, testing and		
	inspections in accordance		
	current status of completion		
Tunnel	 Description 	The same process applies as set out above for	The same process applies as set out above for
Management	 Location (E & N) within 	the Project Network Inventory in respect of	the Project Network Inventory in respect of
System	both the Tunnel	recording details of the Tunnels and the	recording details of the Tunnels and the
	Management System and	Routine Maintenance and Management	Routine Maintenance and Management System
	the GIS	System in respect of for General Inspections	in respect of for General Inspections and
	 Last General Inspection 	and Principal Inspections.	Principal Inspections.
	• Works identified from		
	surveys testing and		
	surveys, testing and		

		Initial Accuracy Test	Monthly Accuracy Test
MIS Sub-System	Critical Fields	(undertaken monthly until expiry of the Moratorium Period for each sub-system)	(undertaken monthly prior to the preparation of the draft Monthly Monitoring Report)
	inspections in accordance with clause 6 and their current status of completion		
Structure	Description	The same process applies as set out above for	The same process applies as set out above for
Management	 Location (E & N) within 	the Project Network Inventory in respect of	the Project Network Inventory in respect of
System	both the Structure	recording details of the Structures and the	recording details of the Structures and the
	management System and the GIS	Southing Mannenance and Management System in respect of for General Inspections	in respect of for General Inspections and
	 Last General Inspection 	and Principal Inspections.	Principal Inspections.
	 Last Principal Inspection 		
	 Works identified from 		
	surveys, testing and		
	inspections in accordance		
	current status of completion		
Street Lighting	Description	The same process applies as set out above for	The same process applies as set out above for
Management	■ Location (E & N) within	Project Network Inventory in respect of	Project Network Inventory in respect of
System	both the Street Lighting	recording details of Street Lighting and the	recording details of Street Lighting and the
	Management System and	Routine Maintenance and Management	Routine Maintenance and Management System
	the GIS	System in respect of Safety Inspections and	in respect of Safety Inspections and Service
	 Current status (i.e. if Street 	Service inspections for scouts, electrical safety	inspections for scouts, electrical safety tests,
	Lighting has been installed	tests, and structural inspections.	and structural inspections.
	but is not yet fully operable,		
	this needs to be recorded on		
	the System but stated as		
	such)		
	 Column Height 		
	- Lamp Type		
	 BSCP 520 charge code 		
	 Energy supplier 		
	 Scouts, electrical testing, 		

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recording details of Highways Trees, the Routine Maintenance and Management System in respect of Safety Inspections of Highway Trees (and, by exception, Trees) and arboricultural inspections.
The same process applies as set out above for Project Network Inventory in respect of
shall request that the Authority issues a fixed penalty notice.
works team on a regular basis and at least once a Month and where it fails to meet the
content is not the responsibility of the service provider but the Service Provider shall ensure that notice quality is checked by its street
The Service Provider shall ensure that this check is repeated on a monthly basis. The quality of third party notices and notice
systems and notices received on the Street Works Management System and visa versa.
each major utility provider operating in the Project Area to identify notices sent by their
inspection results. The Service Provider shall ensure that this includes manual checks with
System includes the testing of its ability to
The Service Provider shall ensure that its initial check of the Street Works Management
(undertaken monthly until expiry of the Moratorium Period for each sub-system)
Initial Accuracy Test

		Initial Accuracy Test	Monthly Accuracy Test
MIS Sub-System	Critical Fields	(undertaken monthly until expiry of the Moratorium Period for each sub-system)	(undertaken monthly prior to the preparation of the draft Monthly Monitoring Report)
	• Species		(Nodex Surremon)
	 Inspections 		
Customer Care	 Customer details 	Where data is received from a third party	The Service Provider shall ensure that an
Management System	 Nature of enquiry 	system (SAP CRM used by the Authority) the	accuracy test is carried out as ner the initial
,	 Enquiry media 	Service Provider will not be responsible for	accuracy check but based on a 2% sample.
	 Current status of enquiry 	quality of the information recorded by the	
	(e.g. open / closed)	Authority. The Service Provider shall	
	 Time taken to respond 	undertake checks to ensure that all calls sent	
	 Time taken to close 	from the Authority are present on its Customer	
		Care Management System and the data	
		recorded is accurate against the critical fields.	
		The Service Provider shall carry out this	
		accuracy test based on a 5% sample of data.	
		The Service Provider shall create reports from	
		within the MIS to report on a daily basis for	
		call response times and close out. The Service	
		Provider shall ensure that these reports are	
		forwarded to the appropriate line manager to	
		action and for the performance manager to	
		review and rectify, where required.	

