

#### **4. Location of Works**

- 4.1 The Planned Preventative Works covered under this scope will generally lie within the core London Underground boundaries and property schedules. These property schedules and plans will be provided to the Supplier to allow for a full assessment of the areas covered under this scope of works.
- 4.2 For some London Underground boundaries, third party interfaces apply such as; public highways, river crossings, private land, Network Rail Track, DLR Track, etc. For these interface areas, the Supplier is expected to manage the interface and consider any specific rules and/or requirements that may apply.

#### **5. Hours of Work**

Access will be obtained in accordance with the arrangements set out in Schedule 13 [Access Arrangements]. Compliance with these arrangements is mandatory.

#### **6. Standards and Specifications**

- 6.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Schedule 1.
- 6.2 The Supplier shall deliver the Corrective Maintenance Works in accordance with all relevant standards and specifications; this includes but is not limited to, London Underground Standards, British Standards, Building Regulations, National Standards and Eurocodes.
- 6.3 It is the responsibility of the Supplier to ensure that the Standard applied to the scope of work is relevant at the time of undertaking the work.

#### **7. Skills and Competencies**

- 7.1 The Supplier's personnel shall be fully trained, experienced and competent to meet the requirements of this Scope of Services. Such training, including any subsequent refresher training shall be at the Supplier's expense. It is the Suppliers responsibility to ensure that adequate training is maintained for its staff allocated to this scope of services and throughout the life of the contract.
- 7.2 The Supplier shall formally submit to the Company all Training & Competency matrices for its staff allocated to this scope of services. These matrices shall be submitted quarterly.
- 7.3 The Supplier shall only employ the services of a sub-Supplier once the Company has been informed formally of the intention for delivering the works through this route and the relevant certification and competency to carry out the works is evidenced by the main Supplier. The main Supplier is wholly responsible for the performance of the sub-Supplier to meet the scope of works and specification as set out by the Company.

## **8. Plant and Equipment**

- 8.1 The Supplier shall deliver the Services to meet the requirements of the Terms and Conditions of Contract – Clause 2.9

## **9. Quality & Compliance Inspections**

- 9.1 The Company will carry out quality inspections of Planned Preventative Services completed by the Supplier in accordance with Schedule 12 [Performance].
- 9.2 The Company shall carry out routine Health & Safety audits on the Supplier whilst works are being delivered 'on-site'. The audits will assess all 'procedures and processes' being carried out to ensure that, as a minimum, compliance is achieved against the standards and specifications.
- 9.3 The output of the Company HSE audits will give a consolidated score which will determine the level of compliance. This will then be aligned to 3 achievement ratings; 'Below Compliance', 'Compliant' and 'Good Practice'.
- 9.4 The HSE audit scores form part of the Contract 'Key Performance Indicators' and are reviewed each period and discussed at the Supplier Periodic Review Meetings. Below is a summary of the 'Key Performance Measures' that are assessed each period.

- ✓ **Health, Safety, Quality and Environment** (Assessment of practices in line with business compliance and legislation)
- ✓ **Tendering** (Assessment of the quality & compliance of tenders received)
- ✓ **Assurance** (Assessment of the quality & compliance of assurance management)
- ✓ **Cost Management** (Assessment of the quality & compliance of cost management)
- ✓ **Service Quality** (Assessment of the overall Service Quality)
- ✓ **Work Planning (Progress Vs Plan)** (Assessment of the delivery of works in accordance with the contracted programme)
- ✓ **Reporting** (Assessment of the quality & compliance of reporting)
- ✓ **Service Delivery** (Measure of the quality & compliance of Service Delivery)
- ✓ **LUL Interface** (Assessment of the overall quality of LUL interfaces)

## 10. Asset Management System

**10.1** The Supplier shall use the Asset Management Systems to record details of work undertaken by the Supplier on the Company's assets as part of the Services and to carry out any other activities in relation to the Asset Management System as set out in the Specification.

**10.2** The Supplier shall ensure that all Supplier Personnel attend any training by the Company in relation to the Asset Management System and follow the methods and processes required by the Company, as may be more particularly described in the Specification or notified to the Supplier from time to time.

**10.3** The Supplier shall perform its obligations under this Clause **Error! Reference source not found.** so as not to put the Company in breach of any of its obligations under any Third Party Licence and shall comply with the terms of any Third Party Licence as if it were a party to the Third Party Licence.

**10.4** The supplier acknowledges that the company shall not have any liability to the Supplier in respect of any inaccuracy, error or omission contained in, or any unavailability of the Asset Management System, and the Supplier shall not be relieved of its obligations under this Contract as a result of the Asset Management System being unavailable or containing any inaccuracies, error or omissions.

**Annex A**  
**JNP Asset Base Subject to 'Planned Preventative Maintenance' Scope**

**Bridges & Structures (B&S)**

Asset Type	Line Total Asset Base			Total
	Jubilee	Northern	Piccadilly	
Cables and Pipe Bridges	33	26	16	75
Foot Bridges	34	55	61	150
Over-Bridges	20	24	26	70
Under-Bridges	27	50	39	116
Viaducts	5	11	15	31
Chimney Masonry	0	1	1	2
Covered Way	3	1	6	10
Culverts	8	9	2	19
Disused Station	0	4	5	9
Escalator Machine Room Steelwork	72	27	18	117
Escalator Support Frame	131	54	44	229
Girdering	33	52	61	146
Linear Staircase	20	15	9	44
Load Gauge	1	1	3	5
Pipe Crossing Under The Track	27	17	20	64
Pipe Crossing Over The Track	1	0	1	2
Roof Structure Support	16	13	28	57
Shaft	0	2	1	3
Shaft Cable	2	15	7	24
Shaft Disused	2	6	11	19
Shaft Lift	0	16	7	23
Shaft Pump	13	4	13	30
Signal Gantry	12	3	12	27
Spiral Stairway	1	20	11	32

Asset Type	Line Total Asset Base			Total
	Jubilee	Northern	Piccadilly	
Stations: Buildings	0	0	0	0
Stations: Platforms	64	88	78	230
Stations: Platforms Canopy	23	22	28	73
Sub-Station Premises	1	1	3	5
Sub-Station	0	0	0	0
Subway	4	7	5	16
Brick Tunnel	4	0	0	4
Ventilation Plant	35	52	61	148
Ventilator	11	0	7	18
Boundary Wall	2	1	1	4
Dry Stone Wall	3	3	0	6
Gabion Wall	24	29	14	67
Retaining Wall Over 1m	64	164	124	352
Retaining Wall under 1m	23	12	9	44
Station Entrance Canopies	16	13	13	42
Access Gantries	0	0	13	13
Lighting Standards	338	509	541	1388
Lighting Masts	2	16	17	35
Lighting Towers	1	1	0	2
Flood Gates	2	58	32	92
Cable Posts	26	43	37	106
Cable Stiles	2	2		4
Water Tower	0	0	1	1
<b>Total</b>	<b>1106</b>	<b>1447</b>	<b>1401</b>	<b>3954</b>

Earth Structures (ES)

Asset Type	Jubilee	Northern	Piccadilly	Total
Cuttings (km)	9	17.15	21.4	47.55
Embankments (km)	8	11.1	13.1	32.2
<b>Total</b>	<b>17</b>	<b>28.25</b>	<b>34.5</b>	<b>79.75</b>

Deep Tube Tunnels (DTT)

DTT Asset Type (No.s)	Jubilee	JLE	Northern	Piccadilly	Total
Platform or Concourse Tunnels	6	7	125	55	193
Station Passageway Tunnels	15	29	422	211	677
Running Tunnels	15	20	103	55	193
Cross Passages Between Running Tunnels	36	2	168	101	307
Step Plate Junctions	2	6	31	15	54
Crossover Tunnels	1	0	13	7	21
Overrun Tunnel	0	0	0	1	1
Siding Tunnel	0	0	9	6	15
Inclined Shafts	2	3	45	12	62
Vertical Shafts	18	28	135	78	259
Disused Tunnels	0	0	10	6	16
Disused Shafts	0	0	12	10	22
Other Tunnels	0	0	35	9	44
<b>Total (No. Of Assets)</b>	<b>95</b>	<b>95</b>	<b>1108</b>	<b>566</b>	<b>1864</b>

NOTE: The above asset volumes are the entire JNP asset base and the specific individual assets out of the above groups and types will be selected by the Company in each year for Planned Preventative Interventions.

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## Schedule 1 – Specification

### SCOPE 3 – Track Drainage (Inspection & Maintenance)

#### 1. Description of the Works

- 1.1 The Supplier shall provide Inspection & Maintenance intervention activities to Track Drainage assets as detailed below. The Supplier shall ensure that all works are carried out in accordance with London Underground and National Standards as well as Statutory Obligations required by Law which are current throughout the life of the Contract.
- 1.2 The Supplier shall research and identify innovative products, methods of working and overall health, safety and environmental practices to ensure the continual improvement of this scope. The Supplier is encouraged to engage with the Company to arrange trial innovations for any such improvements, and work in accordance with good industry practice and best practice.
- 1.3 The Supplier shall be responsible for delivering all the requirements of this scope, including but not limited to, the supply of all labour, overheads, consumables, materials, access equipment and any plant necessary to undertake the required tasks.

#### 2. Scope of Services

- 2.1 The Supplier shall undertake Inspection & Maintenance intervention activities to Track Drainage assets as identified by the Operations JNP.
- 2.2 The 'Track Drainage' Portfolio of assets for Operations JNP consists of the following asset groups and associated volumes.
  - Track Drainage Pipes – Approximately 119km of Track Drainage Pipes
  - Track Drainage Catchpits – Over 4,000 catchpits
  - Drainage Ditches – Approximately 7km of Drainage Ditches
  - Drainage Channels – Approximately 92km of Drainage Channels

NOTE: Full details of the JNP asset base are contained within the attached Annex A.

- 2.3 The types of interventions covered under Track Drainage Inspection & Maintenance scope are summarised below.
  - Cleaning of Drainage by Manual & Mechanical Means – Track & Off-Track
  - Undertaking CCTV Surveys of Drainage Pipes – Track & Off-Track
  - Undertaking Inspections of Drainage Assets (Catchpits, Gulleys, Manholes)
  - Pipework Repairs by Trenchless Methods – Track & Off-Track
  - Pipework Repairs by Non-Trenchless Methods – Track & Off-Track
  - Catchpit Repairs and/or Re-Builds – Track & Off-Track
  - Channel & Ditch Cleaning – Tunnel Sections, Track and Off-Track
  - Re-bedding, replacing and repairing manhole and sump covers
  - Installation of New Catchpits