Transport for London

Programme: PLU (Piccadilly Line Upgrade)
Project: PLU Depots and Sidings
Document Reference: PLU-2344.5.12-LUL-SPC-00018

Cockfosters Depot

Vegetation Clearance and Tree Felling

Scope of Works

		Signature	Date
Prepared by	Manisha Patel Construction Manager	[redacted]	01/12/2021
Reviewed by	Troy Wright Project manager		02/11/2021
Reviewed by	Joanne Pettigrew Project manager		01/12/21
Accepted by	Richard Whittan Senior Project Manager		01/12/2021

Document History

Revision	Date	Summary of changes
Rev 1	01/12/2021	First Issue

1 INTRODUCTION

1.1 PURPOSE

The purpose of this document is to:

- Define the scope of works to be carried out on behalf of PLU depots and sidings project
- Identify Health, Safety and Environmental requirements.
- Identify access requirements and programme.
- Identify deliverable requirements for the defined scope of works.

2 SCOPE REQUIREMENTS

2.1 SCOPE

PLU Depots and Sidings Project are planning to upgrade Cockfosters Depot and have identified 4 areas within the depot that require vegetation clearance and tree felling, Area 1a, 1b, 2 and 3 as per mark up below

Location	Approximate Area m2	Approximate No of Trees	Comments
1a	1,500	20	Largest trunk diameter 300mm
1b	13,500	150	Largest trunk diameter 1000mm
2	16,000	225	Majority trunk diameter 200mm Largest trunk diameter 500mm
3	5,000	50	Largest trunk diameter 400mm

Note Location 2 covers the maximum potential area, however this may reduce once design scope for this area is agreed, PLU project team will advise on how to proceed with this location

The values in the table above are estimates and it is recommended that the contractor carries out their own assessment and site visit to confirm

Phase 0 – Surveys and assessments
Contractor is to provide Ecology and Arboriculture Survey of each area, Survey outcomes and recommendations should be submitted to PLU Project team prior to commencement of any vegetation clearance.

Phase 1 - Initial clearance
Clearance of all the ground vegetation and shrubs in all four areas. This would include clearance around both the Fence lines and cable runs where applicable, once completed areas are to areas should be suitably sprayed with chemicals to avoid regrowth

Phase 2
Tree Felling - once light vegetation has been cleared, all the trees in each of the area need to be cut down to stump level

Phase 3 – Stump Removal
Removal of stumps and initial ground levelling to be carried out in each area

TFL / LUL Community Relationship Team will write a letter to notify them of the Works taking place

2.2 LU (London Underground) Standards and British Standards

The following LU Standards and British Standards are to be complied with but not limited to

- S1165 A4 Landscaping and vegetation

2.3 Deliverables

Tender Deliverables

- Quotation with cover letter and cost breakdown/Pricing Schedule
- Cost breakdown to be done for every activity per area
- Preliminary planning
- Materials
- Labour
- Plant
- Number of Shifts
- Proposed programme of works
- QUENSH (Contract Quality, Environment, Safety & Health Conditions Manual) Menu
- Other associated documentation as identified in the Framework
- The contract will be awarded as a fixed price Lump Sum, in accordance with the Framework.
- Except for Client Variations, no remeasurement of quantities will be permitted.
- The Contractor will be responsible for delivery of all the works as specified

(whether identified or not within the Pricing Schedule).

- The Contractor will bear all associated risks for delivery of works.

Pre-Construction Deliverables

- Method Statement & Risk Assessment
- Programme of Works
- Task Briefing Sheets
- Traffic management Plan
- Waste Notes

Construction & As-built Deliverables

The Contractor is to provide the following:

- Daily shift report and programme updates
- 2 week lookahead for works to be submitted every Wednesday before 12noon
- Assurance documentation to support compliant installation

2.4 WORKS INFORMATION

Works Information

- The Principal Contractor for the works will be the contractor carrying out the Vegetation Clearance and Tree felling
- All surveys are to be undertaken Mon – Fri between the hours of 08.00 to 16.00. Works outside of the site hours must be communicated prior and agreed/specified with the proposal for the delivery of works
- All communications are to be issued to the PLU Depots and Sidings project team only. Verbal instructions or agreements outside of the project team will not be agreed to nor paid
- The contractor must provide method statements & risk assessments for approval, for all surveys of an intrusive nature.
- The Contractor must provide method statements and risk assessments for approval for all vegetation clearance and fencing works
- The contractor must provide task lighting specific to their working activities and as identified within the approved risk assessments.
- Vegetation which is removed/felled must be chipped/removed from site. All tree stumps must be removed, and area made good to the satisfaction of the Project Manager. Locations where material to be chipped and left must be agreed with the Project Manager.
- Contractor must provide a waste management plan for the works to be undertaken.
- The Contractor must make suitable provision and mitigation for works to continue during the bird nesting season.
- Any rubbish/litter/material in undergrowth will need to be removed appropriately off site by the contractor
- Regarding protected species/invasive species/fauna there are existing surveys included in Appendix A, the contractor must take these documents into consideration along with the Ecology survey to be carried out by the contractor. The outcome and recommendations must be agreed with the PLU Project team

- Weekly progress meetings are to be attended by a nominated person (where applicable)
- Two week lookahead to be submitted to the employer every Wednesday by 12:00pm hours
- All safety documentation must be submitted for approval 2 weeks prior to works commencing
- Silver FORS (Fleet Operator Recognition Scheme) accredited vehicle must be allocated when delivering materials/plant to LU sites
- The contractor must confirm all access requirements at the earliest opportunity
- Technical queries or RFI (Request for Information) to be submitted to PLU Depots and Sidings project team

TFL HSE (Health, Safety and Environment) Guideline for PPE (PERSONAL PROTECTIVE EQUIPMENT) are as follows: (applicable to site visits and surveys)

- Safety boots – (need to be non-steel toe cap and non-steel mid sole)
- High visibility orange jacket/ Vest
- Hard hat
- Safety glasses, ear protection and gloves are task specific as per SSOW (Safe System(s) of Work)
- COVID measures – face masks (where applicable), face visors (task specific)

3 HEALTH, SAFETY, QUALITY & ENVIRONMENT

3.1 DOCUMENTATION

The Contractor is to provide all necessary Health Safety and Environmental documentation to comply with their contractual and legal requirements within the appropriate timescales.

3.2 HAZARDS

Attention should be given to site access, transport of equipment to the location and provision of a safe working area for the execution of the works. Accordingly, a safe workspace and safe access/egress routes need to be identified in the Contractor's method statement.

The following residual hazards may remain, which will need to be identified and addressed in the Contractor's risk assessment (this is not an exhaustive list):

- Working adjacent to a LUL infrastructure
- Tripping and falling hazards including uneven ground, vegetation, equipment, cables, etc.
- Falling from height
- Manual handling of heavy equipment
- Working near plant and machinery/ noise
- Discarded Sharps/Needles
- Road Traffic

- Asbestos or other hazardous materials

The Contractor shall make their own assessment of site hazards and report/manage them in the form of a risk assessment with appropriate mitigation measures.

3.3 WELFARE

Contractor shall provide their own welfare facilities on site for all staff. Car Parking limited to two company vehicles. No personal vehicles will be permitted to park within the site.

4 SITE ACCESS

4.1 ACCESS TO LU PREMISES

The Contractor shall ensure that all staff is in possession of the applicable London Underground Limited certification:

The works will be delivered within a worksite. The minimum required LU certification is Sentinel with LU ICI (Industry Common Induction)

The Contractor shall ensure that all staff entering the site sign-in and sign-out with Contractors SPC (Site Persons in Charge) who will sign the work group in with Depot Duty Manager. The Contractor shall ensure that all personnel entering the site have signed a declaration that they will not enter the site whilst under the influence of drugs or alcohol (further requirements see Clause 14.1.1 of QUENSH 18).

4.2 INSTALLATION DATES

Surveys – December 2021

Vegetation Clearance and Tree Felling - January 2022 to April 2022
Priority sequence Area 1a, Area 2, Area 1b and Area 3

4.3 PROTECTION ARRANGEMENTS LUL PREMISES:

The Contractor will be responsible for notifying PLU project team 1 week in advance of any protection resource where necessary, and PLU project team will book resource accordingly.

5 ADDITIONAL REQUIREMENTS

5.1 Programme

- The Contractor is to submit a detailed and resourced programme for the works along with the quote.
- Supporting documents for MAID/assurance purposes must be submitted to LU within one calendar month of Completion.

5.2 METHOD STATEMENTS

The Contractor must provide a detailed site-specific method statement(s) or their generic method statement that captures all activities with an addendum to cover site specific details. This shall be submitted a minimum of 15 working days before commencement of planned works.
Method Statements to be submitted to the

- Construction Manager: Manisha Patel
- SHE (Safety Health & Environment) Business Partner Gemma Thomas

5.2.1 Method Statement/Addendum Signatories

(Contractor Signatories)	(As required)
PLU Representative	

5.3 Supervisory/Contact Personnel

The Contractor is to determine the necessary supervision arrangements for the work and to detail their staffing proposals in the quotation.

6 Commercial

The Contractor shall submit when requested quotations in line with the framework contract and the agreed rates included within, and/or more competitive rates and pricing methods where feasible.
Should the Contractor consider there to be a more suitable approach, methodology etc. that would achieve greater value or performance for this project scope then we would welcome such priced proposals. However, such priced alternatives should be submitted as 'Option 2', and 'Option 1' should also be included priced as per the detailed within this scope document.
Unless agreed in writing to the contrary all priced submissions are a lump sum basis for the delivery of all scope and associated works outlined within this document.
The successful Contractor shall.

- Advise of any changes to the prices through the change control process.
- Variations require agreement in writing prior to undertaking the work, unless emergency remedial works are required when reasonable costs can be agreed retrospectively; please notify the Project Manager immediately should a variation become apparent, or frustrated access affect your works.
- Provide all written evidence, LU signed records and substantiation required as validation of variations and the like, abortive shifts, etc. as and when they occur.
- Provide all deliverables, as built data, records, etc. required as part of the scope. Failure to provide all deliverables as requested herein may result in withholding of payment.

7 PLU Depots and Sidings Cockfosters Contacts

7.1 Personnel

7.2 Emergency Numbers

The Contractor should note the following numbers:

- London Underground 24-Hour Emergency Line – 02920 266780 (Incident Reporting).
- CIRAS (Confidential Incident Reporting & Analysis System) – 0800 4101101.

The London Underground 24-Hour Emergency Line should only be used to report the following:

- Death or fatal injury at work
- Serious or life-threatening injury (e.g., loss of eye, limb amputation, etc. – as defined by RIDDOR (Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995) legislation)
- Serious accident with potential to impact rail operational movements (e.g., derailment caused by London Underground work-scope)
- Serious and unchecked environmental incident
- Immediate press or media involvement in a health, safety, or environmental incident
- An on-call Manager contact details will be provided upon Contract Award.

APPENDIX A

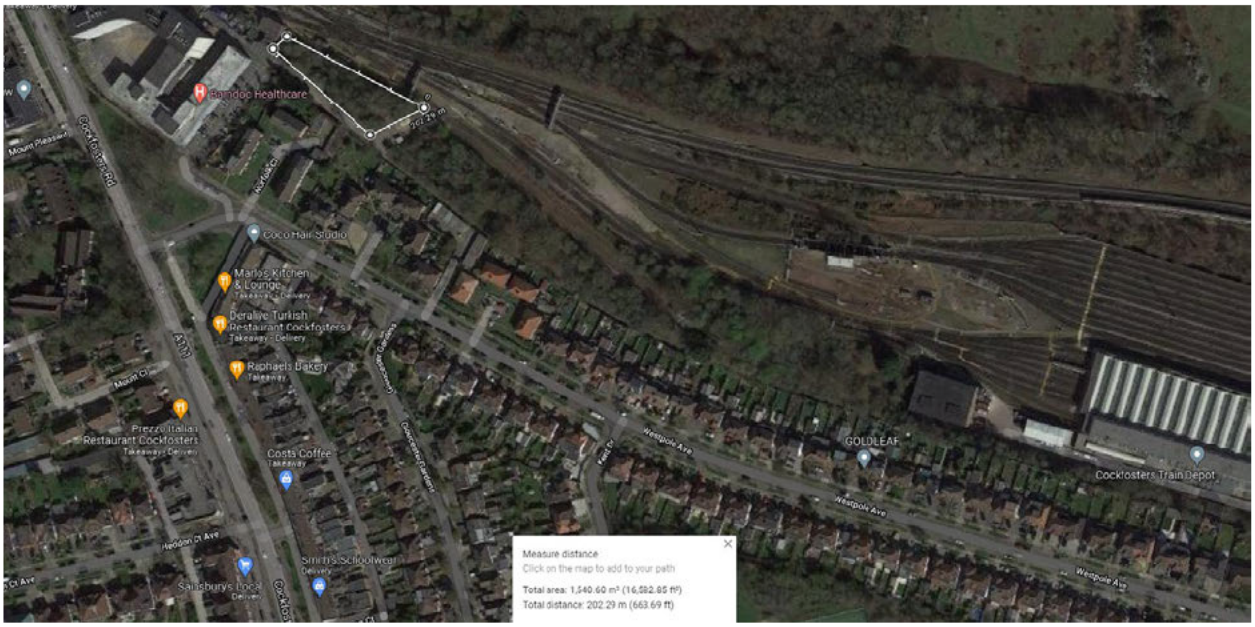
DESIGN DRAWINGS/DOCUMENTS:

- UIP2344.5.12-JAC-CFS-PD012-AST-ENV-0001 Environmental Assessment
- UIP2344.5.12-JAC-CFS-PD012-AST-ENV-0002 Sustainability Assessment
- UIP2344.5.12-JAC-CFS-PD012-CAL-ENV-0001 Biodiversity Tool Kit
- UIP2344.5.12-JAC-CFS-PD012-TN-ENV-0002 Biodiversity Net Gain Assessment
- UIP2344.5.12-JAC-CFS-PD012-REP-ENV-0001 Environmental Impact Assessment Screening Report
- UIP2344.5.12-JAC-CFS-PD012-RPT-ENV-0002 RWMP and REAP
- UIP2344.5.12-JAC-CFS-PD012-RPT-ENV-0003 Arboricultural Impact Assessment
- UIP2344.5.12-JAC-CFS-PD012-RPT-ENV- 0004-1.0-Cockfosters Bat Survey Report
- UIP2344.5.12-JAC-CFS-PD012-RPT-ENV-0005 Noise and Vibration Screening Assessment
- UIP2344.5.12-JAC-CFS-PD012-RPT-ENV-0007 Dust Risk Assessment
- UIP2344.5.12-JAC-CFS-PD012-RPT-ENV-0008 Environmental Management Plan
- UIP2344.5.12-JAC-CFS-PD012-TN-ENV-0001 1.0 Cockfosters Heritage Study

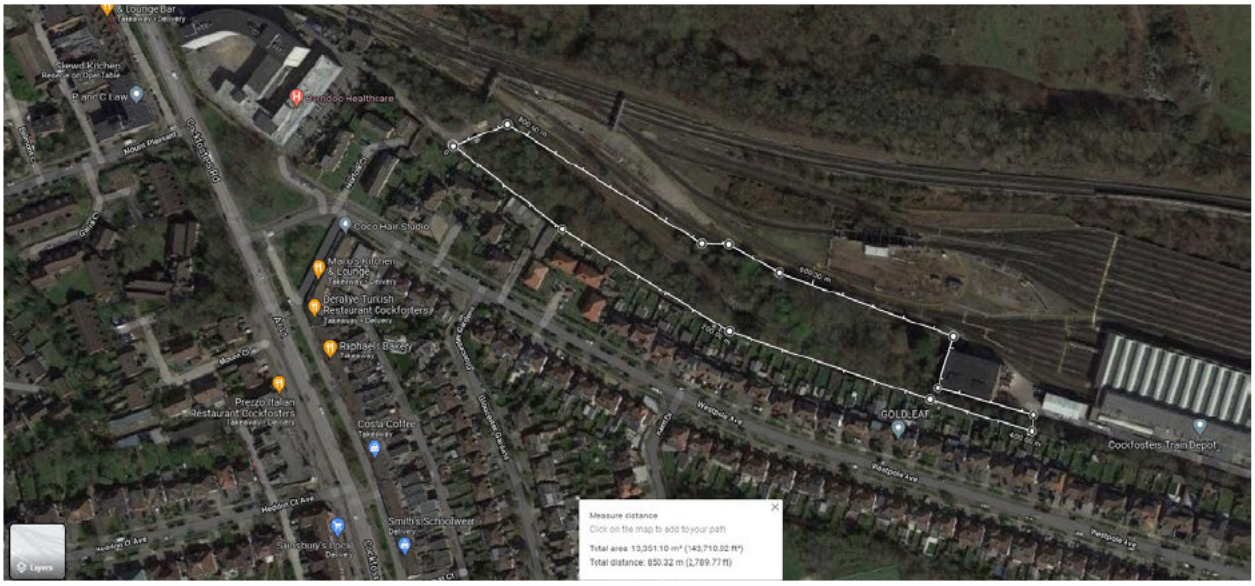
APPENDIX B

VEGETATION AREA MARK UPS:

Area 1a



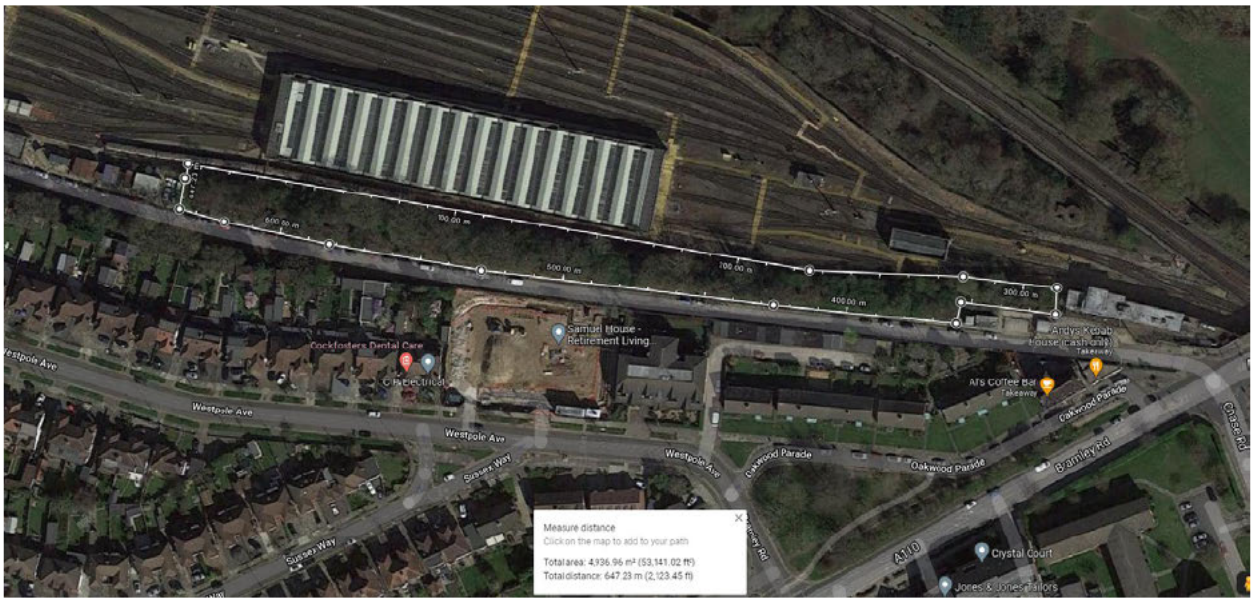
Area 1b



Area 2

Cockfosters Train Depot
Westpole Ave
Measure distance
Click on the map to add to your path
Total area: 15,820.90 m² (170,294.77 ft²)
Total distance: 1.34 km (4,380.45 ft)
Samuel House - Retirement Living
Andys Kebab House (Cash only)
Al's Coffee Bar
Oakwood Station

Area 3


Cockfosters Dental Care
Samuel House - Retirement Living
Westpole Ave
Sussex Way
Oakwood Parade
Bramley Rd
Chase Rd
A110
Measure distance
Click on the map to add to your path
Total area: 4,936.96 m² (53,141.02 ft²)
Total distance: 647.23 m (2,123.45 ft)
Crystal Court
Jones & Jones Tailors