Horniman Museum & Gardens

Traffic Management Plan (TMP)

Planning Reference Number:	DC/23/130987, DC130988LB
Planning Condition Reference:	Condition 4a, c(ii) & h
Client:	Horniman Museum and Gardens
Project Title:	Nature + Love Project
Project Address:	100 London Road, London SE23 3PQ
Local Authority:	London Borough of Lewisham
Date prepared:	October 2024
Version 02 issue date:	15 Nov 2024 – Updated to client comments
Version 03 issue date:	22 Nov 2024 – Updated to client Comments
Appendices:	Appendix A ~ Indicative Plant Data Sheets (Road Examples) Appendix B ~ Indicative Plant Data Sheets (NRMM Examples) Appendix C ~ Rooff NRMM Record Log Sheet Appendix D ~ Landscape Project Contractors Traffic Management Plan Appendix E ~ Proposed Construction Management Site Plan Appendix F ~ Proposed Site Logistics Plan Appendix G ~ Programme of Works (indicative)

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Traffic Management

Prior to commencement a meeting will be held with the highways department of London Borough of Lewisham to discuss and agree the proposed traffic management plan and logistic plan.

In preparing this section of the Traffic Management Plan (TMP) we have taken into consideration the following guidance documents: -

- London Borough of Lewisham Good Practice Guide
- TFL Construction Logistic Planning Guidance
- Construction Logistics and Community Safety (CLOCS) guidance

Prior to commencement of the works a meeting will be held with the Horniman Museum site management team to agree delivery arrangements. This is to ensure priority access is given to the Horniman Estate deliveries (estimate ten per day).

There will be careful planning and programming of deliveries and strict control will be enforced. 48 hours' notice (two working days) must be given for deliveries and / or collections. Vehicles arriving out of sequence will be turned away. Special loads may require several weeks' notice pending Horniman Estate and Local Authority approval.

The contractor will endeavor to ensure that all heavy vehicle traffic is limited to times outside of rush hour, Monday to Friday. Construction vehicle movement will also be carefully planned and coordinated to avoid the AM and PM school drop off and collections. This will reduce congestion and safeguard pedestrians. Therefore, all deliveries will be 6-8am and 9am-2pm.

To ensure all contractors, delivery companies and visitors are aware of the traffic routes and restrictions, several methods will be implemented. This will include written briefings sent to delivery companies at the time of the orders being placed and verbal briefings within the site induction to all contractors and visitors to site.

Safety of cyclists is of paramount importance and all vehicles entering and exiting the site will fully comply with CLOCS, the requirement for vehicular safety equipment. Deliveries will abide by London standards recommended by the Construction Industry Cycling commissioning manifesto.

Traffic Marshal(s) will be provided to control site deliveries for both arrival and departure of all delivery vehicles. All delivery companies will be or encouraged to become members of FORS in accordance with the TFL Construction Logistics Planning guidance for deliveries in London.

The Traffic Marshals will be fully qualified (Site Access Traffic Marshal qualification as a minimum) and will be always on duty during loading and off-loading activities to ensure that vehicles and pedestrians passing the site entrances do so in a safe manner.

All vehicles will enter the site in a forward direction and exit in a forward position. No reversing will be allowed onto the public highways. Vehicles will not be permitted to stack up. The construction vehicles will not block London Road.

Large deliveries and vehicles access will be made via the London Road gated entrance and access roads as shown on drawing NLP-FF-00-XX-DR-A-00119 shown In Appendix E.

No deliveries will be made via Horniman Drive entrance.

All deliveries London Road between 6-8am and 9am-2pm to avoid peak school and work travel times.

All delivery vehicle drivers will report if they are delayed and call ahead 30 minutes before arrival to ensure the delivery can be made. This will avoid unexpected, out of sequence vehicles arriving that cannot be accommodated and need to be turned away.

London Road entrance will also be used by pedestrians there will be pedestrian management provided by the Traffic Marshals. All contractors site deliveries will be escorted through the site to ensure safe transit of the deliveries and the Traffic Marshal/bankman will supervise any off-loading operations.

Weekly site logistics meetings will take place between contractors and the Horniman to schedule deliveries. Deliveries will be booked in to avoid multiple vehicles queuing to get onto site at the same time. Traffic Marshals will manage vehicle movement on site and if required, hold vehicles to allow others to safely come on to or leave site. Deliveries will be managed to avoid busy times. Traffic Marshals will escort vehicles and vehicle speed limits of 5mph within the grounds will be adhered to.

The pedestrian and vehicle gates are typically unlocked at 7am and locked at 7pm (depending on opening hours according to time of year). A member of the Horniman team open the gates and gardens.

The Traffic Marshalls positioned at the gate will oversee deliveries coming into the site, with only pre-scheduled vehicles gaining access. The Traffic Marshalls will also manage pedestrian safety at the gate with pedestrian routes clearly marked.

Vehicle movements once on site will be as 'Horniman Museum and Gardens – Natural History Gallery Project – proposed Site Logistics – Plan 001.1' see following page and appendix F.

Given the layout of London Road at the access to the site larger vehicles will only approach from the east and depart heading east.

Wheel washing is to be carried out on site at each individual work area (at source) to ensure that construction debris (soil) from vehicles wheels is not deposited on the shared routes within the Horniman ground and highways surrounding the grounds.

Contractors will be encouraged to use public transport to travel to site. Where possible, local workforce will be utilised. Car parking is not provided at the Horniman.

Contractor welfare facilities to include changing facilities.

Existing cycle parking available on site at the Horniman. This includes 15no. staff cycle parking spaces and 38no. visitor cycle parking spaces.

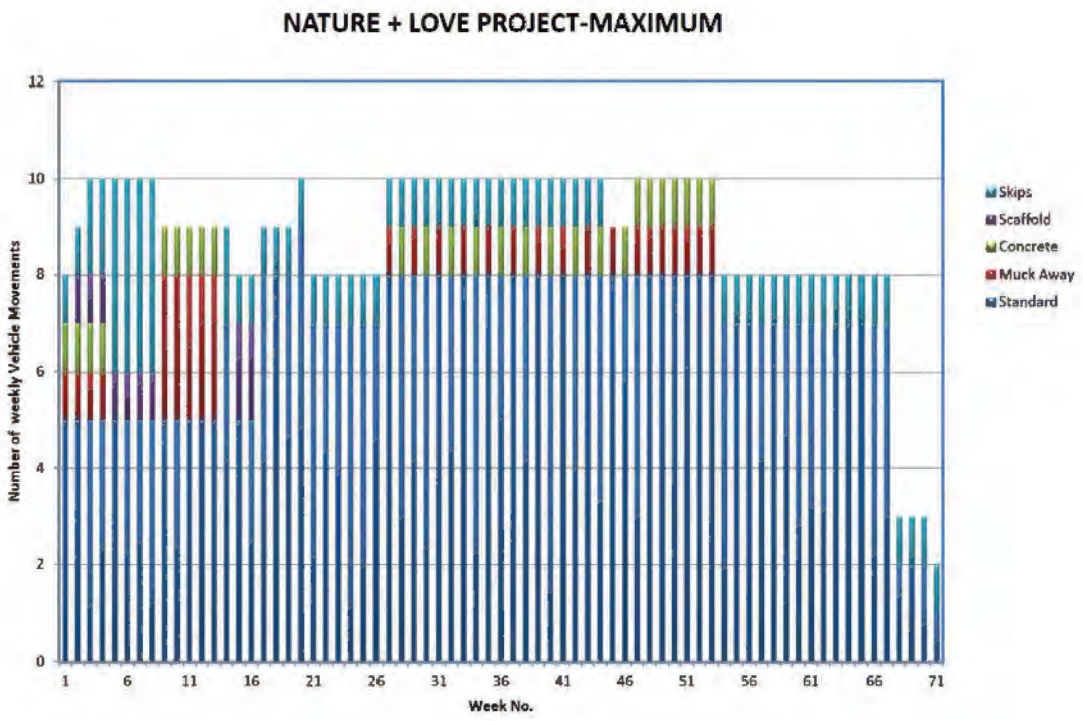
Proposed Construction Management Site Plan NLP-FF-00-XX-DR-A-00119 please refer to Appendix E.

Proposed Site Logistics Plan 001.1 please refer to Appendix F

In accordance with the Good Practice Measures and Outline Construction Logistic Planning Guidance, please refer to Appendix G Programme of Works (indicative).

See below traffic movement histogram that provides weekly numbers of vehicles thus indicating maximum weekly traffic movements during the construction period.

Traffic Movement Histogram-Maximum
(Delivery Slots 6-8am & 9am-2pm)



Indicative types of on-road vehicles arriving and departing the site are as follows: -

- 9.11m (6) wheeled rigid “muck-away lorry
- 6.65m (4) wheeled rigid small Flat bed with Hiab delivery lorry
- 5.2 m (4) wheeled general delivery van.
- 8.73m (6) wheeled rigid ready mix concrete lorry
- 7.90m (4) wheeled skip lorry

See Appendix A

All on road vehicles will comply with the Ultra Low Emission Zone (ULEZ) vehicle emission standards as a minimum. Evidence that contractors and suppliers have been contacted in respect to the use of ULEZ compliance can be provided upon request. The use of Ultra-Low Emission Vehicles (ULEV) (eg. Electric, Hybrid (Electric-Petrol) where possible will be encouraged at the procurement stage of the tender for these services. There is no provision for electric vehicle charging on site.

The contractor will actively work with suppliers that can provide electric or hybrid vehicles. Subcontractors will be required to comply with the emission hierarchy where practicable.

All deliveries to site will be undertaken with full regard paid to:

- Reduction and control of plant movements
- All vehicles to be directed by a competent person
- Pedestrian and vehicle directional signage – suitable barriers will be erected to prevent pedestrian crossing the site entrances when deliveries are taking place.
- Mobile plant will only be operated by a competent person with a banks person in attendance to any movements.

Consultation with the local authority of the London Borough of Lewisham will continue throughout the project to ensure:

- Construction methods minimise the potential impact on nearby residents. These include liaison with the residents on a regular basis and coordinate work to minimise disruption to residents, use of low emissions site plant equipment, limiting the amount of traffic movement to and from the site. Keeping dust and noise to a minimum (See AQDM plan).
- Maintenance of the existing public highway by using both London Road and Horniman Drive entrances. If one access route was to become blocked or unusable for third party reasons, there is always a second access available.
- Segregation of all pedestrians, public or employees, on or in the vicinity of the site through the use of safe access routes and employment of Traffic Marshals.

Indicative non-road mobile machinery (NRMM) types for site use as follows: -

- Telehandler-Material distribution
- Mini Excavator-Earthworks
- Dumper-Earthworks
- Spider crane-Lifting

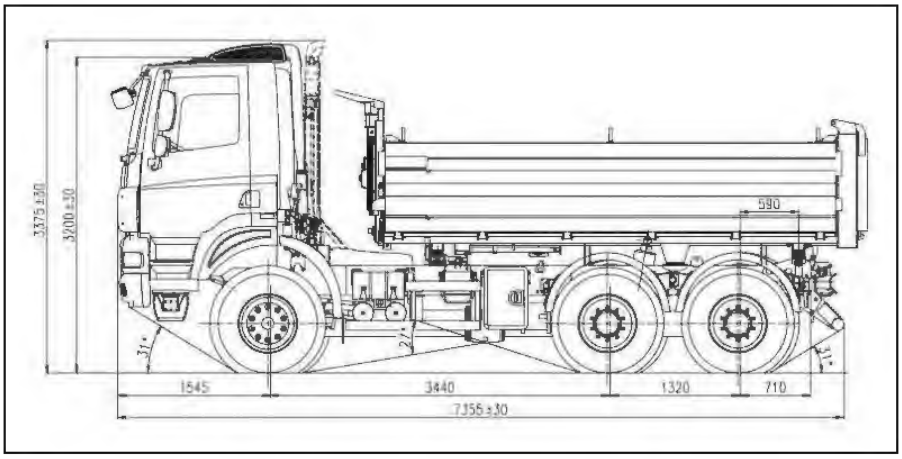
See Appendix B

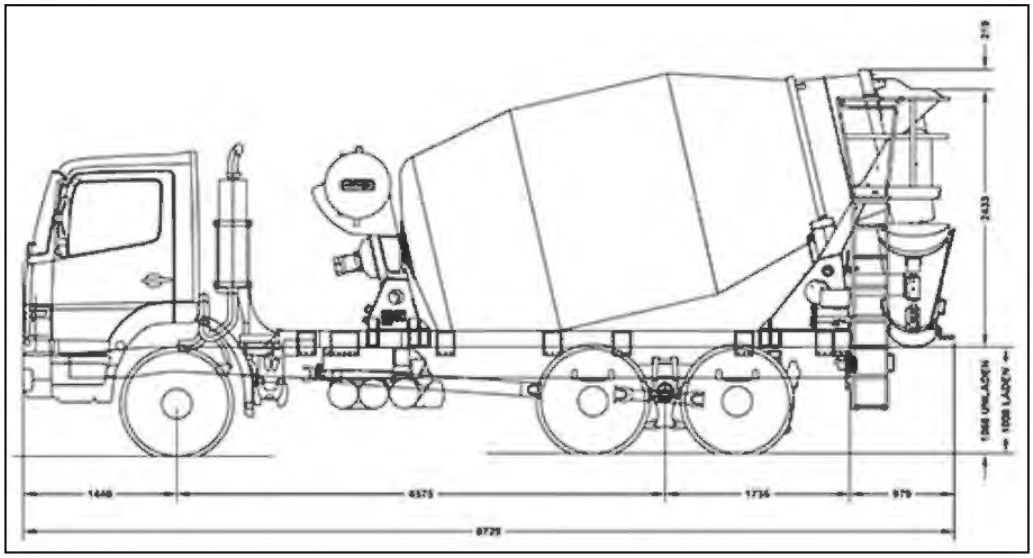
All non-road mobile machinery (NRMM) will comply with Stage IV Emission Standards (or the latest standard if the GLA requirements change) as a minimum if equal to or over 37kW. Where compliance with Stage IV requirements is not achievable or practical, an exemption will be sought from the GLA prior to arrival of the equipment on site.

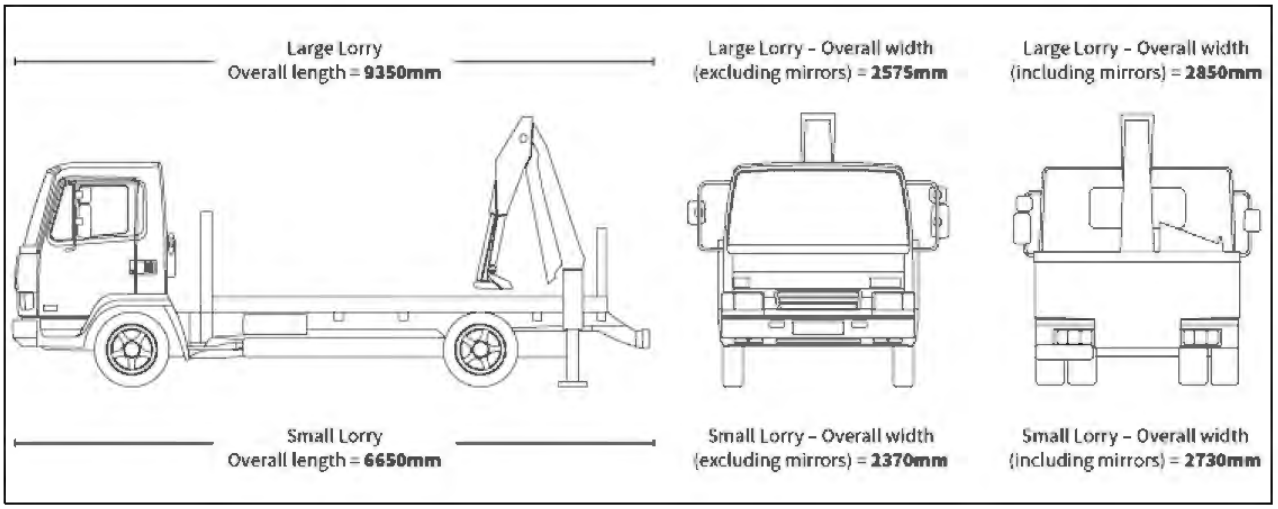
The contractor will actively work with suppliers that can provide electric or hybrid vehicles. Subcontractors will be required to comply with the emission hierarchy where practicable.

Appendix A ~ Indicative Plant Data Sheets (Road Examples)

Note: All suppliers will apply the emissions hierarchy relating to on-road Ultra Low Emissions Zone (ULEZ) compliant vehicles namely (1) Electric; (2) Hybrid (Electric-Petrol); (3) Petrol; (4) Hybrid; (Electric-Diesel) Diesel; (Euro 6 and Euro VI)

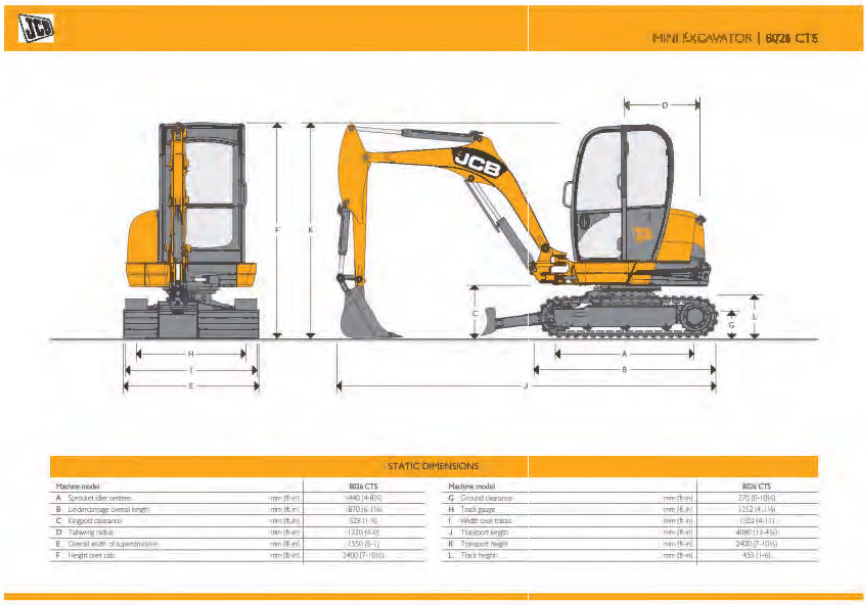


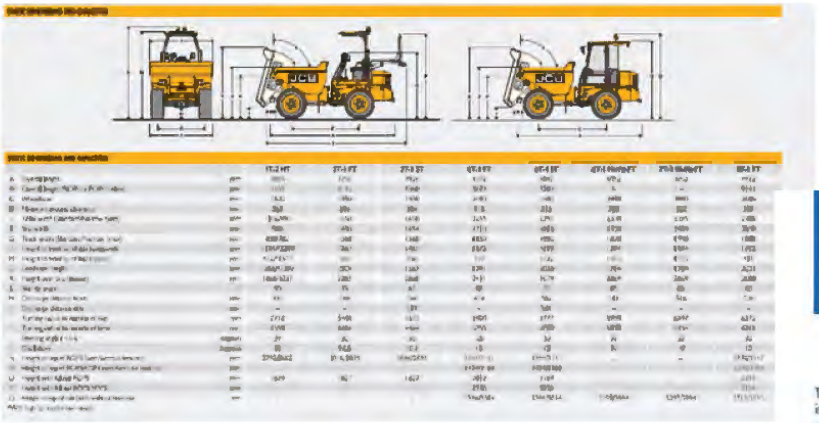




Appendix B ~ Indicative Plant Data Sheets (NRMM Examples)

Note: -As Lewisham Good Practice Guide all non-road mobile machinery to use Ultra Low Sulphur diesel (ULSD)





Appendix C ~ Rooff NRMM Record Log Sheet

Non-Road Mobile Machinery (NRMM)

Machinery type				
Access Platform	Bore Rig	Bulldozer	Compressor	Crane
Crusher	Dumper	Excavator	Forklift	Generator
Piling Rig	Roller	Telehandler	Other: _____	

Date arrives on site	
Expected end date	
Machine ID	
Manufacturer	
kW power rating	
EU emission stage	Stage I Stage II Stage IIIA Stage IIIB Stage IV Stage V
Engine approval number	

Company name	
Print name	
Signature	
Date	

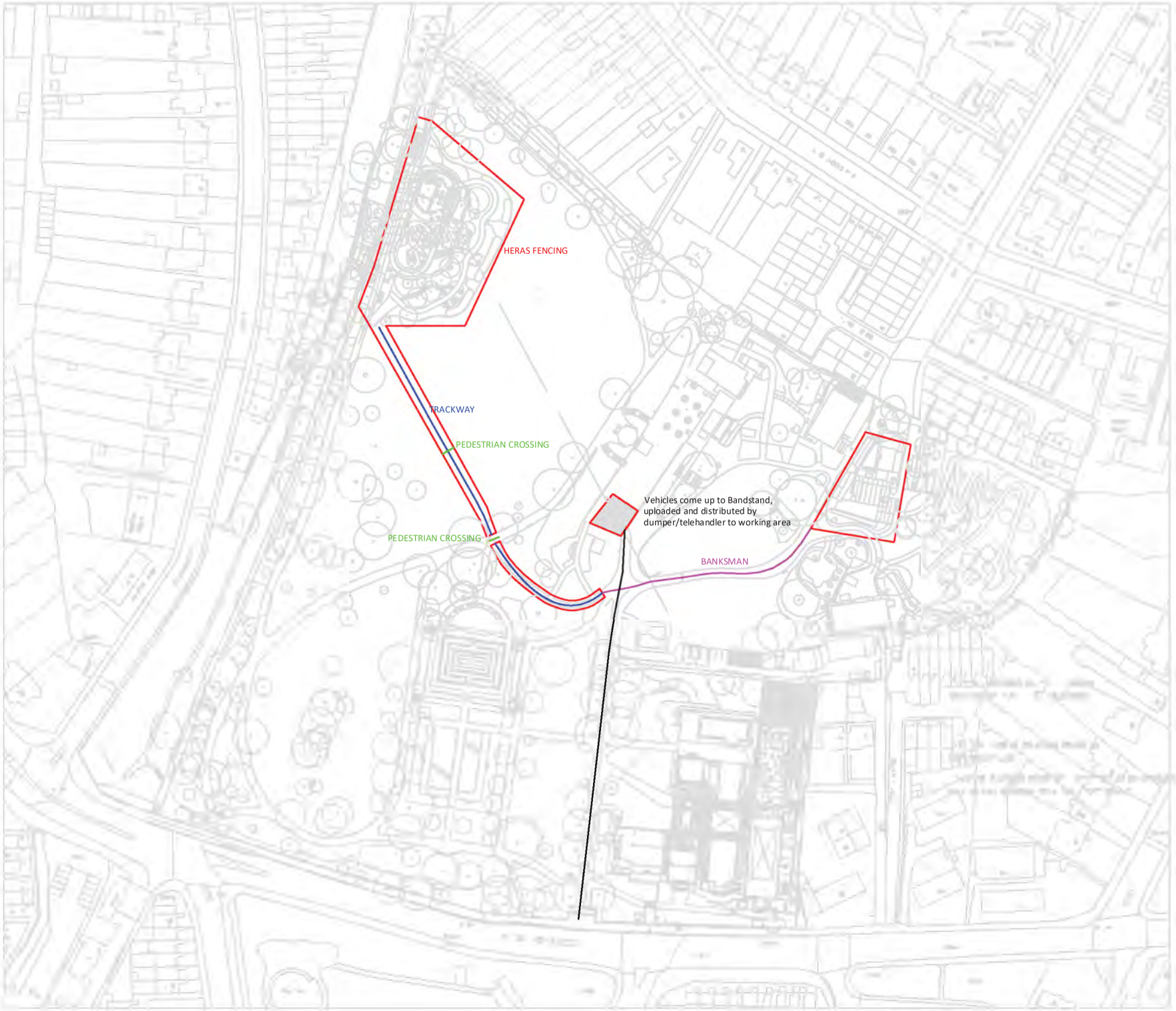
The current emissions requirement on this site:

All machinery on your site must meet EU Emission Stage IIIB. Because EU Emissions Stages IIIB and IV have not been defined for constant speed engines, this means that all constant speed machinery will effectively be required to meet EU Emission Stage V.

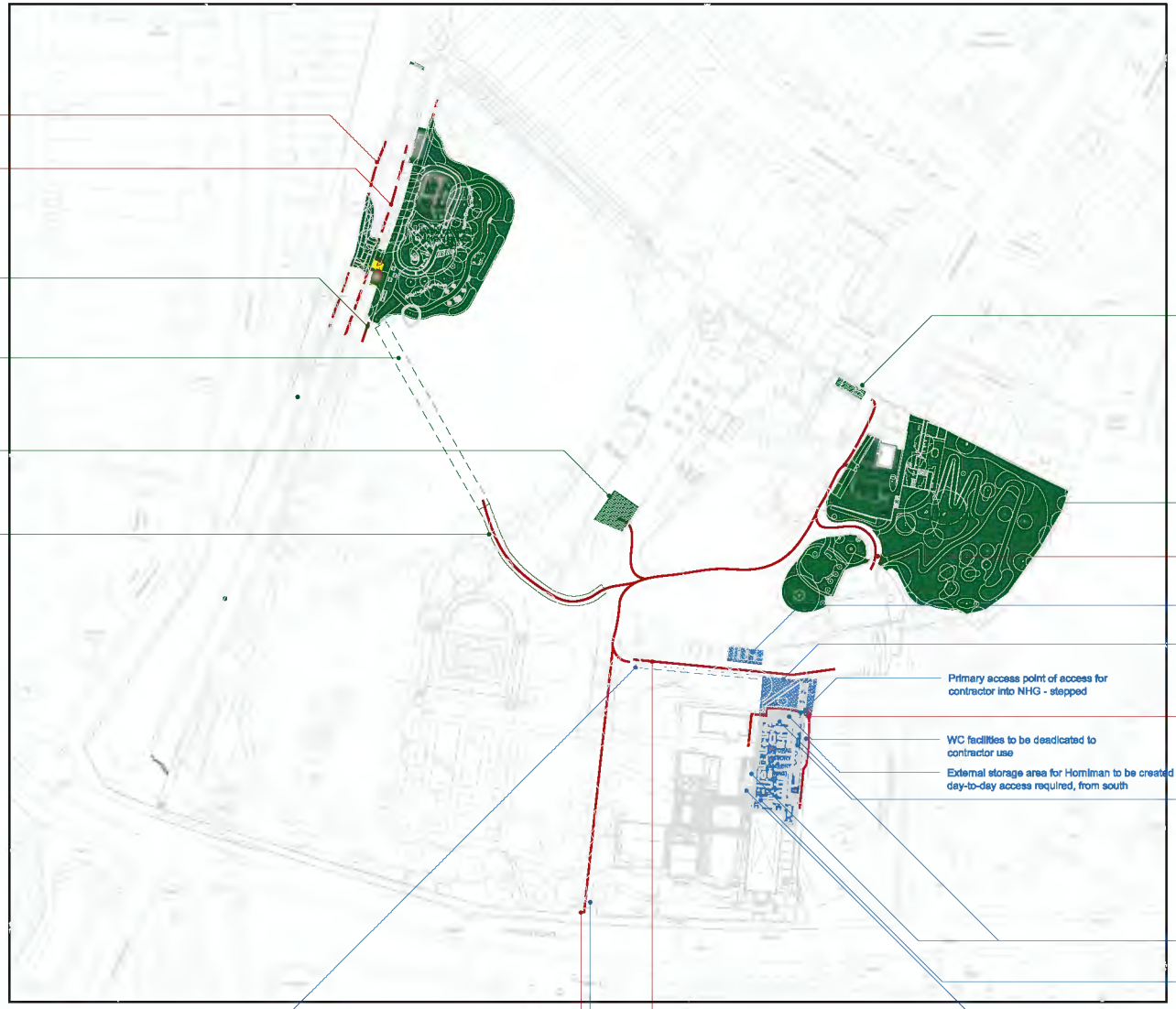
The emissions standards apply to all machinery with an engine power between 37 kW and 560 kW. Please add all in-scope NRMM to the site record as it arrives on your site. You can also use the site to record equipment that does not fall within these power bands. This will assist the enforcement officers to identify machines that they do not need to inspect in detail when they visit the site.

As the site administrator you are expected to ensure that all machinery used over the course of the development is correctly logged, including any retrofits or other machinery that requires an exemption to operate. You are also expected to ensure that non-compliant machinery, or machinery that has been refused an exemption, is removed promptly. Failure to comply with the NRMM Low Emission Zone can result in formal enforcement action against the site.

Appendix D ~ Landscape Project Contractors Traffic Management Plan


HERAS FENCING
TRACKWAY
PEDESTRIAN CROSSING
PEDESTRIAN CROSSING
Vehicles come up to Bandstand, uploaded and distributed by dumper/telehandler to working area
BANKSMAN

Appendix E ~ Proposed Construction Management Site Plan



General Notes:

1. All dimensions are in millimetres unless noted otherwise.
2. All levels and spot heights are in metres unless noted otherwise.
3. All dimensions shall be verified on site before proceeding with the work.
4. Feilden Fowles shall be notified in writing of any discrepancies.

Rev	Date	
01	17.08.23	
02	26.09.23	

Architect:

FEILDEN FOWLES

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Client:
Horniman Museum and Gardens

Site Address:
100 London Road, London. SE23 3PQ.

Project:
Nature + Love Project

Drawing Title:
Proposed Construction Management Site Plan

Project Status:
RIBA Stage 3

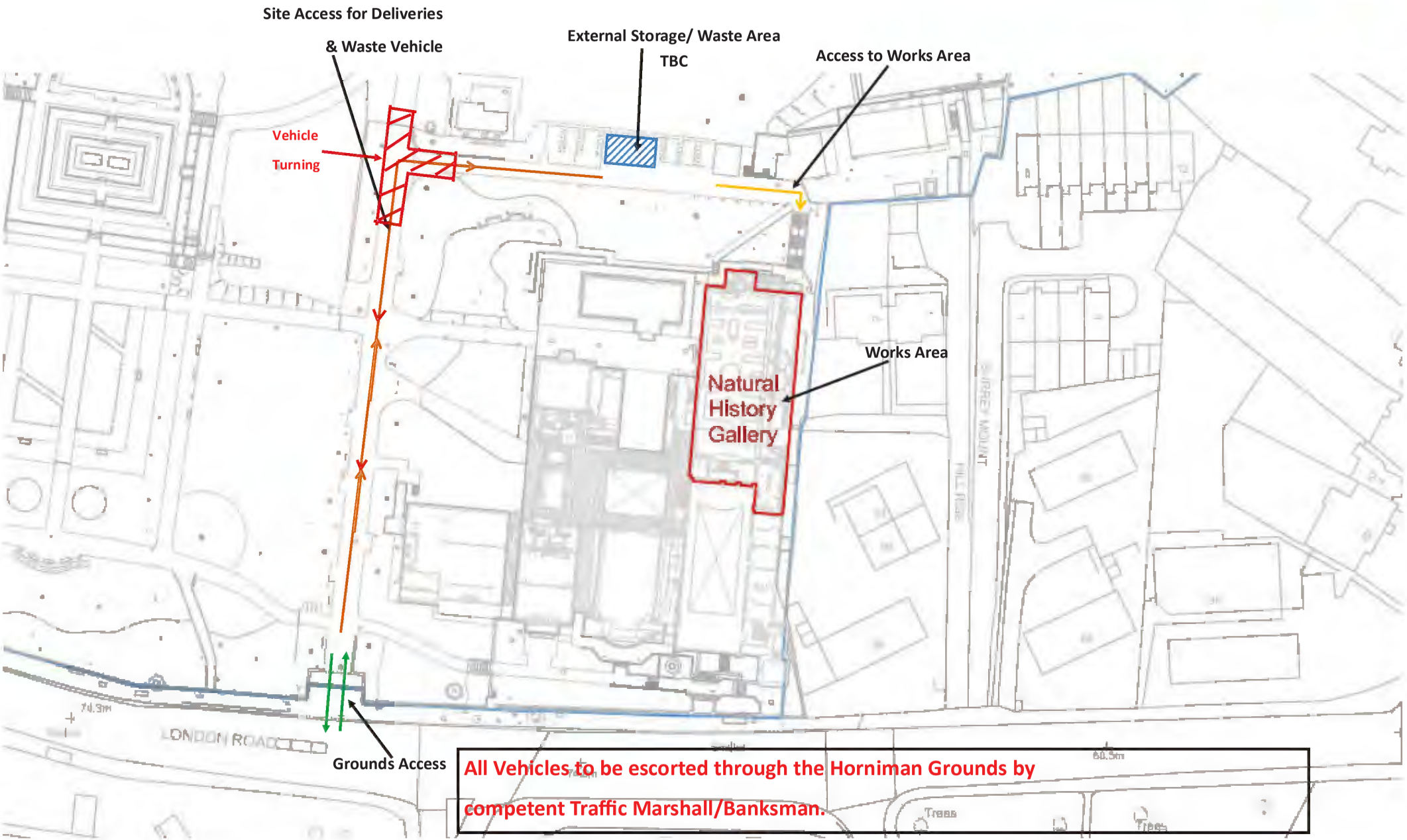
Scale @ A3:	Scale @A1:	Drawn:	Check:
1:2000	1:1000	EH	FF

Drawing Number: NLP-FF-00-XX-DR-A-00119

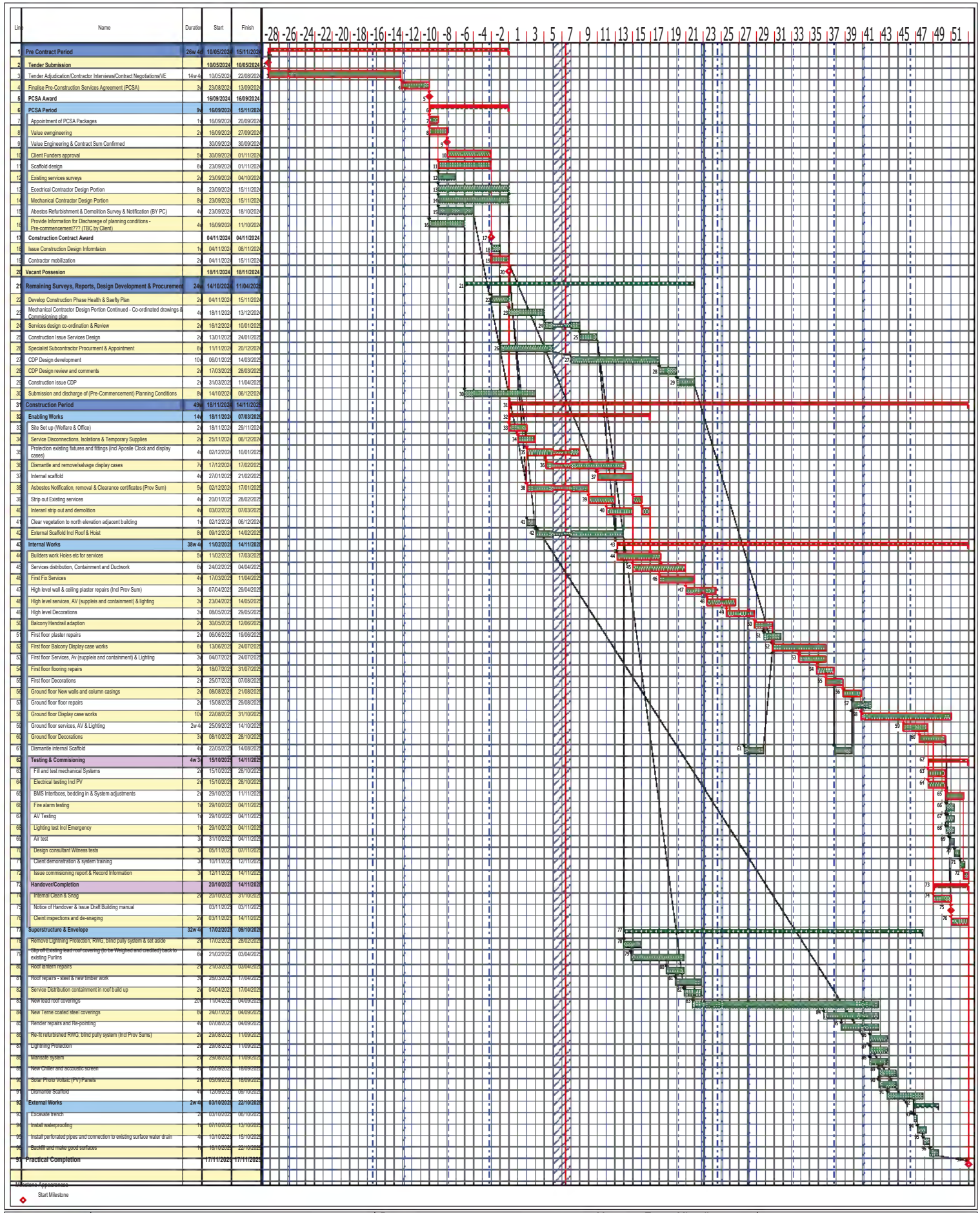
Status-Revision: P02

Appendix F ~ Proposed Site Logistics Plan

Horniman Museum and Gardens—Natural History Gallery Project—Proposed Site Logistics—Plan 001



Appendix G ~ Programme of Works (indicative)



Line	Name	Duration	Start	Finish
1	**Pre Contract Period**	26w 4d	10/05/2024	15/11/2024
2	**Tender Submission**		10/05/2024	10/05/2024
3	Tender Adjudication/Contractor Interviews/Contract Negotiations/VE	14w 4d	10/05/2024	22/08/2024
4	Finalise Pre-Construction Services Agreement (PCSA)	3w	23/08/2024	13/09/2024
5	**PCSA Award**		16/09/2024	16/09/2024
6	**PCSA Period**	9w	16/09/2024	15/11/2024
7	Appointment of PCSA Packages	1w	16/09/2024	20/09/2024
8	Value ewngineering	2w	16/09/2024	27/09/2024
9	Value Engineering & Contract Sum Confirmed		30/09/2024	30/09/2024
10	Client Funders approval	5w	30/09/2024	01/11/2024
11	Scaffold design	6w	23/09/2024	01/11/2024
12	Existing services surveys	2w	23/09/2024	04/10/2024
13	Ecectrical Contractor Design Portion	8w	23/09/2024	15/11/2024
14	Mechanical Contractor Design Portion	8w	23/09/2024	15/11/2024
15	Abestos Refurbishment & Demolition Survey & Notification (BY PC)	4w	23/09/2024	18/10/2024
16	Provide Information for Discharege of planning conditions - Pre-commencement??? (TBC by Client)	4w	16/09/2024	11/10/2024
17	**Construction Contract Award**		04/11/2024	04/11/2024
18	Issue Construction Design Informtaion	1w	04/11/2024	08/11/2024
19	Contractor mobilization	2w	04/11/2024	15/11/2024
20	**Vacant Possession**		18/11/2024	18/11/2024
21	**Remaining Surveys, Reports, Design Development & Procurement**	24w	14/10/2024	11/04/2025
22	Develop Construction Phase Health & Saefty Plan	2w	04/11/2024	15/11/2024
23	Mechanical Contractor Design Portion Continued - Co-ordinated drawings & Commisioning plan	4w	18/11/2024	13/12/2024
24	Services design co-ordination & Review	2w	16/12/2024	10/01/2025
25	Construction Issue Services Design	2w	13/01/2025	24/01/2025
26	Specialist Subcontractor Procurment & Appointment	6w	11/11/2024	20/12/2024
27	CDP Design development	10w	06/01/2025	14/03/2025
28	CDP Design review and comments	2w	17/03/2025	28/03/2025
29	Construction issue CDP	2w	31/03/2025	11/04/2025
30	Submission and discharge of (Pre-Commencement) Planning Conditions	8w	14/10/2024	06/12/2024
31	**Construction Period**	49w	18/11/2024	14/11/2025
32	**Enabling Works**	14w	18/11/2024	07/03/2025
33	Site Set up (Welfare & Office)	2w	18/11/2024	29/11/2024
34	Service Disconnections, Isolations & Temporary Supplies	2w	25/11/2024	06/12/2024
35	Protection existing fixtures and fittings (incl Apostle Clock and display cases)	4w	02/12/2024	10/01/2025
36	Dismantle and remove/salvage display cases	7w	17/12/2024	17/02/2025
37	Internal scaffold	4w	27/01/2025	21/02/2025
38	Asbestos Notification, removal & Clearance certificates (Prov Sum)	5w	02/12/2024	17/01/2025
39	Strip out Existing services	4w	20/01/2025	28/02/2025
40	Interanl strip out and demolition	4w	03/02/2025	07/03/2025
41	Clear vegetation to north elevation adjacent building	1w	02/12/2024	06/12/2024
42	External Scaffold Incl Roof & Hoist	8w	09/12/2024	14/02/2025
43	**Internal Works**	38w 4d	11/02/2025	14/11/2025
44	Builders work Holes etc for services	5w	11/02/2025	17/03/2025
45	Services distribution, Containment and Ductwork	6w	24/02/2025	04/04/2025
46	First Fix Services	4w	17/03/2025	11/04/2025
47	High level wall & ceiling plaster repairs (Incl Prov Sum)	3w	07/04/2025	29/04/2025
48	High level services, AV (suppleis and containment) & lighting	3w	23/04/2025	14/05/2025
49	High level Decorations	3w	08/05/2025	29/05/2025
50	Balcony Handrail adaption	2w	30/05/2025	12/06/2025
51	First floor plaster repairs	2w	06/06/2025	19/06/2025
52	First floor Balcony Display case works	6w	13/06/2025	24/07/2025
53	First floor Services, Av (suppleis and containment) & Lighting	3w	04/07/2025	24/07/2025
54	First floor flooring repairs	2w	18/07/2025	31/07/2025
55	First floor Decorations	2w	25/07/2025	07/08/2025
56	Ground floor New walls and column casings	2w	08/08/2025	21/08/2025
57	Ground floor floor repairs	2w	15/08/2025	29/08/2025
58	Ground floor Display case works	10w	22/08/2025	31/10/2025
59	Ground floor services, AV & Lighting	2w 4d	25/09/2025	14/10/2025
60	Ground floor Decorations	3w	08/10/2025	28/10/2025
61	Dismantle internal Scaffold	4w	22/05/2025	14/08/2025
62	**Testing & Commisioning**	4w 3d	15/10/2025	14/11/2025
63	Fill and test mechanical Systems	2w	15/10/2025	28/10/2025
64	Electrical testing Incl PV	2w	15/10/2025	28/10/2025
65	BMS Interfaces, bedding in & System adjustments	2w	29/10/2025	11/11/2025
66	Fire alarm testing	1w	29/10/2025	04/11/2025
67	AV Testing	1w	29/10/2025	04/11/2025
68	Lighting test incl Emergency	1w	29/10/2025	04/11/2025
69	Air test	3w	31/10/2025	04/11/2025
70	Design consultant Witness tests	3w	05/11/2025	07/11/2025
71	Client demonstration & system training	3w	10/11/2025	12/11/2025
72	Issue commisioning report & Record Information	3w	12/11/2025	14/11/2025
73	**Handover/Completion**		20/10/2025	14/11/2025
74	Internal Clean & Snag	2w	20/10/2025	31/10/2025
75	Notice of Handover & Issue Draft Building manual		03/11/2025	03/11/2025
76	Client inspections and de-snaging	2w	03/11/2025	14/11/2025
77	**Superstructure & Envelope**	32w 4d	17/02/2025	09/10/2025
78	Remove Lightning Protection, RWG, blind pully system & set aside	2w	17/02/2025	28/02/2025
79	Strip off Existing lead roof covering (to be Weighed and credited) back to existing Purlins	6w	21/02/2025	03/04/2025
80	Roof lantern repairs	2w	21/03/2025	03/04/2025
81	Roof repairs - steel & new timber work	3w	28/03/2025	17/04/2025
82	Service Distribution containment in roof build up	2w	04/04/2025	17/04/2025
83	New lead roof coverings	20w	11/04/2025	04/09/2025
84	New Terne coated steel coverings	6w	24/07/2025	04/09/2025
85	Render repairs and Re-pointing	4w	07/08/2025	04/09/2025
86	Re-fit refurbished RWG, blind pully system (Incl Prov Sums)	2w	29/08/2025	11/09/2025
87	Lightning Protection	2w	29/08/2025	11/09/2025
88	Mansafe system	2w	29/08/2025	11/09/2025
89	New Chiller and accoustic screen	2w	05/09/2025	18/09/2025
90	Solar Photo Voltaic (PV) Panels	2w	05/09/2025	18/09/2025
91	Dismantle Scaffold	4w	12/09/2025	09/10/2025
92	**External Works**	2w 4d	03/10/2025	22/10/2025
93	Excavate trench	2w	03/10/2025	06/10/2025
94	Install waterproofing	1w	07/10/2025	13/10/2025
95	Install perforated pipes and connection to existing surface water drain	4w	10/10/2025	15/10/2025
96	Backfill and make good surfaces	1w	16/10/2025	22/10/2025
97	**Practical Completion**		17/11/2025	17/11/2025

Milestone Appearance

Start Milestone

ROOFF	Programme Title: Horniman Natural History Gallery	Prog no :	Manager : Trevor Mingail
		Revision no :	Drawn by: Planner - TM
		Rev. date :	Notes: PCSA, Design & Construction Programme

Planned by Rooff Limited http:/www.rooff.co.uk

Horniman Museum & Gardens

Project Ref: C:\Users\tmingail\OneDrive - Rooff Ltd\RC226 Horniman NHG\CM\Programme\240918 - RC226 -PCSA & Construction Programme Horniman Gallery.pp