



- ### BOUNDARY KEY
- ESTATE RAILINGS 1.0M HIGH
 - CLOSE BOARDED FENCE 1.8M HIGH
 - CLOSE BOARDED FENCE 1.2M HIGH

- ### HARD LANDSCAPING KEY
- RESIN BOUND PERMEABLE FOOTPATH
 - CONCRETE PAVING FLAGS
 - PEA SHINGLE

- ### PLANT SCHEDULE
- TURF
 - CLOVER LAWN
 - TREES

- 7 BETULA PENDULA 'SILVER BIRCH' 12L / 18-20 GIRTH - STANDARD EXTRA HEAVY
- 3 SORBUS AUCUPARIA 'ROWAN' 12L / 18-20 GIRTH - STANDARD EXTRA HEAVY
- 3 MALUS DOMESTICA 'LAXTON'S SUPERB' 12L / 12-14 GIRTH - STANDARD EXTRA HEAVY
- 2 MALUS SYLVESTRIS 'CRAB APPLE' 12L / 12-14 GIRTH - STANDARD EXTRA HEAVY

MAIN TREES TO BE STANDARD EXTRA HEAVY (SEMI-MATURE) AND ROOT BALLED. APPLE TREES FROM SPECIALIST FRUIT TREE NURSARY AS AVAILABLE ON MEDIUM GROWTH ROOT STOCK.

FLOWERS/SHRUBS

No	NAME	POT	SIZE (CM)	DENSITY (PER M²)
65	HYACINTHOIDES NON-SCRIPTA 'BLUEBELLS'	3L	30-40	2
15	RHINANTHUS MINOR 'YELLOW RATTLE'	3L	30-40	2
14	POLYPODIUM VULGARE	3L	30-40	2
5	ASARUM EUROPAEUM	3L	30-40	2
11	LEUCOJUM AESTIVUM	3L	30-40	2
46	SILENE LATIFOLIA 'WHITE CAMPION'	3L	30-40	2
20	POTENTILLA FRUTICOSA 'ABBOTSWOOD'	3L	20-30	2

CLIMBERS

15	LONICERA PERICLYMENUM 'HONEYSUCKLE'	3L	60-80 GROWN ON CANES
12	ROSA CANINA (DOG ROSE)	3L	60-80 GROWN ON CANES

WIRING ON FENCES - SPECIFICATION

TO BE VINE EYES SCREWED INTO POSTS WITH GALVANISED WIRE AND BARREL STRAINERS. HORIZONTAL WIRING ALLOW 3 LINES SPACED 450MM APART, BOTTOM WIRE 450MM ABOVE GROUND LEVEL.

HEDGES

40	PRUNUS SPINOSA 'BLACKTHORN'	BARE ROOT	100-120	2
60	LIGUSTRUM VULGARE 'WILD PRIVET'	BARE ROOT	100-120	3
85	FAGUS SYLVESTRIS 'COMMON BEECH'	BARE ROOT	100-120	3

MAIN HEDGES TO BUILDING FRONTAGE (PUBLIC BOUNDARY) TO BE SUPPLIED IN TROUGHS FOR INSTANT BOUNDARY COVERAGE (WHERE POSSIBLE).

OUTLINE SPECIFICATION

All planting work shall be in accordance with approved horticultural standards and all relevant British Standards. Plants shall be supplied in accordance with the HTA Trade Certification Scheme and handled in accordance with CPSE Handling and Establishment of Landscape Plants Guidelines. Herbicides, pesticides and other chemicals may only be used with approval of the contract administrator. Use of chemicals shall be in accordance with all relevant guidelines and the manufacturer's recommendations. Imported topsoil shall be a minimum specification of BS 3882:2015 Multipurpose Classification unless otherwise instructed. 1m³/20m² approved compost/organic material/soil ameliorant shall be cultivated into topsoil before planting. Peat shall not be used.

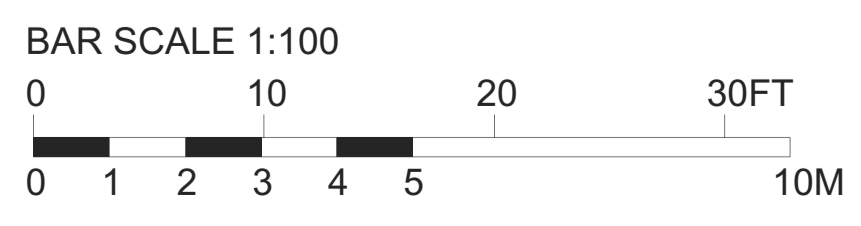
Following planting all shrub beds shall be treated with an approved granular fertiliser at rates as recommended by manufacturer. All planting beds shall be mulched with 50mm depth medium grade bark mulch.

MAINTENANCE

The defects liability period for planting shall be 12 months from completion of the works. During this period any plant which is found to be dead, dying or otherwise defective shall be replaced during the next planting season. The contractor shall make maintenance visits as required to ensure the successful establishment of the planting and maintain all shrub areas in a weed free condition.

ENHANCED ECOLOGY

The selected planting will improve the bio-diversity offered by the existing site, greatly enhancing the wildlife value. Nectar-rich varieties will attract pollinators, including bees, whilst denser areas of planting along boundaries may attract small garden birds, moths and bats.



ECOLOGY ENHANCEMENTS BAT / BIRD BOXES AND INVERTEBRATE HOTELS

In accordance with the recommendations set out in the Ecological Appraisal produced by BSG Ecology, the development will install boxes aimed at Biodiversity Action Plan (BAP) species in London: House sparrow and Starling. The boxes would be installed as high as possible (2-3m) and onto fences or trees, with some planting locally to create some cover. Orientations to be southeast and southwest.

Together with the above, integrated bat boxes will be provided, according to the guidelines as set out in the bat survey / recommendations.

For invertebrate hotels, they are located on fence panels in the communal garden area, on a near southern aspect.

Schedule:	Product guidelines are listed below:
2 x Eco Bat Box	https://www.nhbs.com/1sp-schwegler-sparrow-terrace
2 x Starling Box	https://www.nhbs.com/nhbs-practical-conservation-equipment
2 x Sparrow Box	https://www.nhbs.com/eco-sparrow-tower
1 x Bug Mansion	https://www.nhbs.com/starling-box-smooth-brick
1 x Insect House	https://www.nhbs.com/eco-starling-nest-box
	https://www.nhbs.com/national-trust-apex-insect-house-1
	https://www.nhbs.com/nhbs-practical-conservation-equipment
	https://www.nhbs.com/bug-mansion?bkfno=179147

LIGHTING SPECIFICATION

In line with paragraph 180 of the National Planning Policy Framework (NPPF) which states that decisions should limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation, therefore directional lighting, either facing downwards or away from suitable features (vegetation), should be used in order to avoid light spillage into habitats to minimise the risk of disturbance to bats. Following advice outlined by the Institute of Lighting Professionals (2018), the following should also be implemented:

- The use of LEDs throughout the external lighting scheme.
- LEDs to have a peak wavelength of >550 nm.
- The use of downward directional luminaires.
- A warm white spectrum < 2700 Kelvin.
- Lights to have a 0% upward light ratio.

LIGHTING BREEAM CRITERIA

The following relate to key BREEAM standards Ene 03 and Pol 04 to be implemented in the lighting strategy:

- Average initial luminous efficacy of not less than 70 lumens per circuit watt.
- Automatic control to prevent operation during daylight hours.
- All external lighting (except for safety/security) can be automatically switched off between 23:00 - 07:00.
- Presence detection in areas of intermittent pedestrian traffic (Passive Infrared sensor - PIR).
- External lighting to be designed in compliance with Table 2 'Guidance notes for the reduction of obtrusive light (2011)' of the Institute of Lighting Professional (ILP).
- If safety or security lighting is provided and will be used between 23:00 and 07:00, the system will comply with the lower levels of lighting recommended during these hours in Table 2 of the ILP guidance notes.

NB. Temporary lighting areas such as switching on/off or PIR lighting to be as close to 2700k spectrum as possible (i.e. 3000k or 2700k bulbs). Timed (more permanent) lighting restricted to 2700K.

LIGHTING KEY

TB01 - Collingwood LED 'BL01' - or similar Wooden bollard LED low voltage downlighter W95 x D95 x H1000mm Colour Temperature 2700k (Path & forecourt) IP GRADE: IP65 Control: Timer	
WM02 - Bega 'Wallwasher' - or similar Wall mounted directed LED downlighter Colour Temperature 3000k (Front door localised) IP GRADE: IP65 Control: On/Off & PIR (DALI)	

PLANNING

Project	ELLERAY HALL SITE, TEDDINGTON		
Drawing	PROPOSED LANDSCAPING PLAN, PLANTING SCHEDULE & LIGHTING PLAN		
Drawing No.	Scale	Date	
ERH-09	1:100 @ A1	23.04.2021	