

NOTE:
SURROUNDING CONTEXTUAL BUILDINGS AND INFORMATION ARE BASED ON RECEIVED ORDINANCE SURVEY DRAWINGS AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. ASSUMED SITE BOUNDARY IS SUBJECT TO CONFIRMATION

NORTH

Notes:
All proposed tree locations are subject to co-ordination with drainage layout and subject to modification depending on the location of underground services and utilities. Drainage engineer to co-ordinate services layout in conjunction with the landscape plan to avoid conflict as much as possible. Allowance to be made at tender stage for the possible requirement for root barriers once the drainage layout is confirmed, CA to be informed immediately once this is available.



Soft Landscape Key:

- Existing trees to be retained and protected during construction and landscaping works in accordance with BS5837:2012 guidance.
- Existing vegetation to be retained and protected during construction.
- Existing trees and vegetation to be removed in order to facilitate the proposed development.
- Proposed tree in soft landscape. Refer to planting schedule for species & specification.
- Proposed specimen shrub planting. Refer to planting schedule for species & specification.
- Proposed formal instant hedge and dwarf hedge planting. Refer to planting schedule for species & specification.
- Proposed ornamental shrub planting. Refer to planting schedule for species & specification.
- Existing grass area to be retained and made good where required.
- Proposed species rich lawn turf. To be WFT-Species-rich-26 Turf grass.
- Proposed stone aggregate surface finish to be laid over permeable geotextile membrane.
- Proposed ornamental bark mulch surface finish.
- Existing site rocks to be incorporated within landscape scheme. Indicative location shown - to be agreed onsite.

Ecological Features Key:

- Proposed Bird Nesting Boxes**
2No. Vivara Pro Seville 32mm Oval Hole Box
To be mounted on a retained tree at least 3m high
 - Proposed Bat Boxes**
2No. Vivara Pro WoodStone Bat Box
To be mounted on a retained tree at least 3m high
 - Proposed Invertebrate Boxes**
5No. WoodStone Insect Block
To be mounted on walls/fences or poles at 1m above ground level
- Note:**
Location of ecological features within the landscape shown on plan. Exact location and installation to be supervised onsite by project Ecologist. For more information refer to Practical Ecology Biodiversity Enhancement Plan.

PLANTING SCHEDULES:

Trees	Species	Abb.	Form	Girth	Height (cm)	Clear stem (cm)	Root	Quantity
Betula pendula	Bp	Multi stem (3-5 stems)	/	Min 400	/	/	RB	1

Specimen Shrub Planting:	Name	Abb	Height (cm)	Root	Container	Habit	Quantity
Amelanchier lamarckii (Multi Stem Specimen)	Al	175-250	RB	/	3 - 5 main stems	1	
Buxus sempervirens 'Sphere'	Bs	40-50	C	25L	Tightly clipped topiary ball	4	
Phormium 'Apricot Queen'	PAQ	80-100	C	25L	Specimen	6	
Phormium cookianum 'Tricolor'	PcT	80-100	C	25L	Specimen	1	
Phormium 'Evening Glow'	PEG	80-100	C	25L	Specimen	2	
Phormium 'Yellow Wave'	PYW	/	C	10-12L	Triple Crown	3	

Ornamental Shrub Planting:	Name	Abb	Height (cm)	Root	Container	Habit	Density	Quantity
Cornus alba 'Spaethii'	CaS	60-80	C	3L	Branched	3/m ²	39	
Hebe 'Mrs Winder'	HmW	30-40	C	3L	Bushy	4/m ²	60	

Formal Hedge Planting:	Name	Abb.	Height (cm)	Root	Container	Form	Spacing	Quantity
Buxus sempervirens	Bs	30-40	C	1m Trough	Clipped instant hedge unit	Single row, 6No. Plants per linear m	20	
Carpinus betulus	Cb	100-120	C	1m Trough	Clipped instant hedge unit	Single row, 6No. Plants per linear m	45	
Fagus sylvatica	Fs	100-120	C	1m Trough	Clipped instant hedge unit	Single row, 6No. Plants per linear m	14	
Lavandula angustifolia 'Munstead'	LaM	30-40	C	7.5L	Bushy	Single row, 50cm centres	14	

Notes:
Formal instant hedge planting units to be planted in a continuous row with the specified density of plants per linear m as specified.

Mixed Species Native Boundary Hedge Planting:	Name	Abb	Height (cm)	Root	Container	Habit	% In Mix	Quantity
Acer campestre	Ac	80-100	UK Cell grown	/	Branched	20%	18	
Cornus sanguinea	Cs	80-100	UK Cell grown	/	Branched	25%	24	
Fagus sylvatica	Fs	80-100	UK Cell grown	/	Branched	35%	34	
Ligustrum vulgare	Lv	40-60	UK Cell grown	/	Branched	20%	18	

- Notes:**
- * Hedge species to be planted in a double staggered row at 500mm centres, 450mm between rows
 - * Hedge to be maintained at a maximum height of 1.5m
 - * Hedge plants to be protected with 600mm Tubex Shelterguard Shrub Shelters supported by 32mm x 32mm tanalised stakes.
 - * Hedges to be planted within off the roll fully bio-degradable weed control membrane to suppress weeds and conserve ground moisture. Product: Ecotec MulchMat by Hy-Tex or similar approved, installed and secured with ground pegs in accordance with manuf
 - * Shrubs to be sourced as local to the site as possible and "UK-Grown" in accordance with current bio-security best practice.

SOFT LANDSCAPE SPECIFICATION NOTES:

- NOTE: All soft landscape works to be carried out in accordance with BS4428:1989.
- SUBSOIL**
Subsoil should be broken up to relieve compaction and aid drainage prior to topsoiling to the following depths:
- For light and non cohesive subsoils: 300mm
- For stiff clay and cohesive subsoils: 450mm
Immediately before spreading topsoil, remove stones larger than 50mm.
- TOPSOIL**
Existing site won topsoil to be reused for soft landscape areas if sufficient quantities are available and the topsoil meets the criteria for multipurpose topsoil as defined in table 1 of BS3882:2015 specification for Topsoil.
If imported topsoil is required it is to be supplied and spread by the main contractor to the approval of the Landscape contractor, in accordance with BS 3882:2015. To be a natural sand loam, of medium texture, with a pH between 5.5 and 7.5, not more than slightly stony and free of pernicious weeds. Subsoil to be well broken up prior to top-soiling to relieve compaction. Topsoil depths should be:
Areas for Ornamental Shrub Planting: minimum 400mm
Areas for cultivated turf: minimum 150mm
Note: Contractor to provide soil testing declaration of analysis certification and sample for inspection & approval prior to delivery of any topsoil to site.
- CULTIVATION**
Weeds to be prevented from seeding or becoming established by applying a suitable herbicide and allowing the correct time to elapse, as directed by the manufacturer. Compacted soil to be broken up to a depth of 100mm, with any stones, grass tufts or rubbish larger than 50mm in any direction to be removed, leaving a regular and even surface. Suitable slow release fertiliser to be supplied and spread @ 50g/m² to all planted areas.
- CLIMATIC CONDITIONS**
Topsoiling should be carried out in the driest conditions possible - cultivation to be carried out when the soil is moist, friable and not waterlogged or frozen. Topsoil should not be handled during or after heavy rainfall or when the waiting on the plastic limit as defined by BS 3882. Planting should not take place in waterlogged conditions or when the ground is frozen.
- SOIL AMELIORANT**
Peat-free compost to be spread over ornamental shrub beds @ minimum 50mm depth prior to cultivation.
- TREES**
All trees within shrub beds to be planted in separate pits in accordance with tree planting detail.
All plant material to comply with BS 3934 Part 1:1992, be obtained from a nursery certified by the HTA and transported to site in accordance with the HTA Plant Handling Guide: 1996. All trees to be planted to the original root collar and secured in place with underground guying system in accordance with tree planting detail. All trees to be fitted with aeration and irrigation system in accordance with tree planting detail.
If the trees are planted outside of the planting season then containerised stock to be used in lieu of root balled but the same tree heights are still required - allowance to be made for this at tender stage if required once construction timetable is known and CA informed immediately.
- EXISTING SHRUBS**
Existing shrubs to be trimmed back at appropriate time of year for the species and maintained in conjunction with the proposed planting. All pruning works should be carried out by an approved member of the Arboricultural Association or other approved specialist using approved methods for that species and should result in a balanced form on all sides.
- PROPOSED ORNAMENTAL SHRUB PLANTING**
All shrubs to be positioned as shown on the drawing and to the density and specification listed in the plant schedule.
Planting holes to be 150mm wider than the root spread, have the base ground thoroughly broken up before planting and backfilled with great free compost.
All shrubs to be equally spaced throughout the planting areas to the specified density in a staggered arrangement unless otherwise noted in the planting schedule.
Contractor to ensure numbers on schedule match those shown on drawing before placing any orders for plants. Any discrepancies to be brought to the attention of the Landscape Architect upon discovery.
Contractor to check on site dimensions of all landscape areas to ensure specified quantities will achieve the specified densities for each species.
- SPECIES RICH GRASS LAWN TURF**
Turfed areas should be laid in accordance with BS 3969:1998: Recommendations for Turf for general purposes and BS 4428-1989 General Landscape Operations.
Height of initial growth: 100mm
Height of first cut: 45mm no more frequently than once every three weeks to allow low-growing forb species to flower and provide a suitable pollen and nectar source for wildlife
Height of growth: The height of growth must not exceed 100mm at any time.
Arising to be removed. Turf to not be cut between November and March to allow recovery over winter.
Timing: When grass reaches scheduled height of maximum growth and is reasonably dry.
Application: At the time of each cut, trim all grass edges round the base of trees, manholes etc and remove arisings. Sweep all adjoining hard areas clear of cuttings and remove.
Weeding: Keep the sward substantially free of broad leaved weeds by applying a suitable selective herbicide.
Fertiliser: March application: 15:10:10 Spring turf fertilizer at 35g/m².
September application: 5:10:10 Autumn turf fertilizer at 50g/m².
- SUBSTITUTIONS:**
Upon submission of evidence that certain materials, including plant materials, are not available at the time of the landscape contract, the Landscape Contractor may be permitted to substitute other materials and plants in exceptional circumstances during the contract with an agreed adjustment of prices.
All substitutions shall be of nearest equivalent species and variety to the original specified but shall be subject to approval by the Landscape Architect before any change is made.
- TIMES OF YEAR FOR PLANTING:**
Landscape works to be carried out during the final possible planting periods prior to practical completion of the building and associated engineering works / car park areas in accordance with the following:
- Native and ornamental trees: During dormant winter period - Late October to late March (only if planted in the planting season otherwise containerised stock to be used).
- Bare root native transplants: During dormant winter period - Late October to April.
- Container grown ornamental and specimen shrubs: At any time if ground and weather conditions are favourable.
- MULCH**
75mm depth of 8-35mm ornamental bark mulch (peat-free) to be supplied and spread to all planting areas. Finished mulch level to be installed and maintained at 25mm below any adjacent kerbs or paving surfaces.
- MAINTENANCE**
All planting areas to be maintained to a high standard by the contractor for 12 months after practical completion, to ensure the landscape scheme is successful, and discourage decline of the area.
Minimum frequency of maintenance visits:
December / January / February & March - 1no. visit each month
April to November - 2No. visits each month.
- Generally, during the first 12 months:
- All planting beds to be re-firmed and kept weed free through hand weeding and application of an approved herbicide where appropriate.
- All litter to be picked and removed from landscape areas.
- Mulch to be topped up as required to maintain the specified thickness.
- The condition of all trees is to be regularly checked, with ties and stakes adjusted or replaced as necessary.
- Shrubs to be pruned at appropriate times of year for each species to promote healthy growth and desirable ornamental features.
- Grass lawn area to be cut and maintained in accordance with specification note above.
- All arisings to be removed from site.
- Any defects or plant losses occurring during the first 12 months defects period to be replaced at the contractors expense.
- GENERAL WATERING**
All soft landscaping to be subject to a watering regime which is absolutely essential to ensure the continued success of the scheme, particularly during the initial 12 month establishment period. The watering frequency should be as necessary to ensure the continued thriving of all grass, hedges, trees and ornamental planting. During dry periods minimum weekly visits should be made to the site to ensure the soil has not dried out and to action watering if necessary. The soil should be checked for dryness using either a soil moisture sensor or by inserting a spade into the ground to a depth of 300mm to observe the appearance of the soil. If the soil is moist there is no need to water but if it is bone dry then watering procedure should be carried out immediately. Water supply should be from potable mains water or an approved alternative. The full depth of topsoil should be wet without loosening or damaging plants. Any compacted soil should be broken up sufficiently to allow water to reach the rootzone.
- WATERING TRENCHES**
Trees to be watered in accordance with BS 8545:2014 Tree - From Nursery to Independence.
Trees should be watered via the installed irrigation / aeration pipes around the base of the trees stem in accordance with the manufacturer's instructions to ensure the water reaches the roots of the tree. Below is a suggested watering regime but this should be used as a guide only and may require modification in times of drought or flood, dependant on the ground conditions at the time, which should be monitored as above:
- March - October: 20 litres to be poured into irrigation pipe two times per week (40 litres in total)

Project Title	PROPOSED RESTAURANT OWL LANE / SHAW CROSS DEWSBURY WF12	Drawing Title	LANDSCAPE PLAN
Client	McDONALD'S RESTAURANTS LTD	Job/Dwg No	16716-VL-MCD_L01 Rev. B
Status	PLANNING	Client	McDONALD'S RESTAURANTS LTD
Scale	1:250	Drawing Size	A1
Drawn By	FW	Checked By	AS
Date	03 / 2020	Drawn	AS

18.01.2021 - AS
08.01.2021 - AS
Updated to coordinate with Ecological features
Updated to coordinate with Architects site plan and Ecological features

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