ON PLOT PLANTING SCHEDULE

LATIN NAME	QUANTITY	FORM	GIRTH	HEIGHT
SPECIMEN TREES				
Acer campestre 'Elegant' (Ac E)	3	Heavy Std Root Ball	12-14cm	3.0-3.5m
Amelanchier lamarckii 'Robin Hill' (Al RH)	3	Select Std Root Ball	12-14cm	3.0-3.5m
Betula utilis var. jacquemontii (Buj)	3	Heavy Std Root Ball	12-14cm	3.0-3.5m

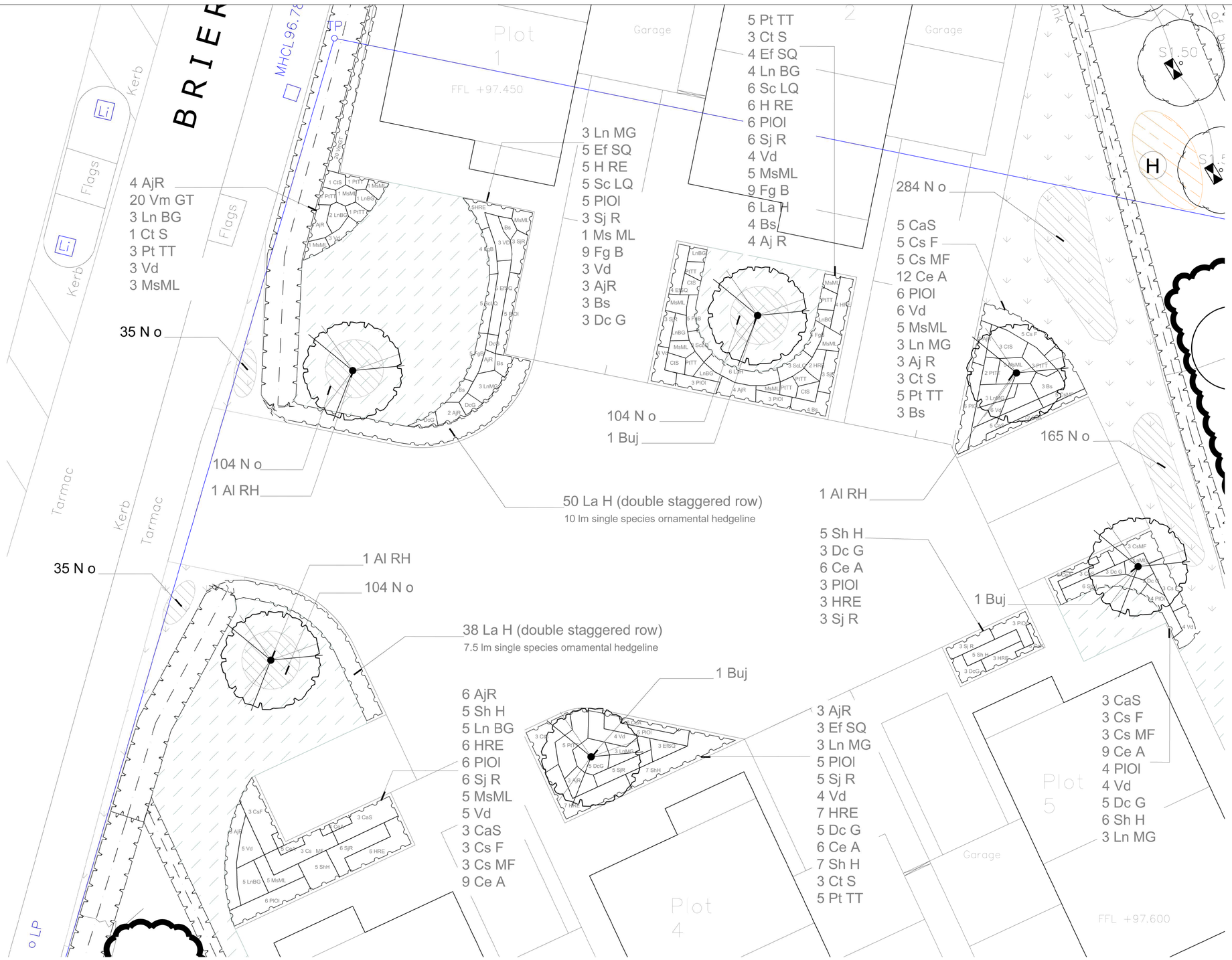
FORMAL HEDGELINES				
LATIN NAME	QUANTITY	FORM	HEIGHT	DENSITY
Ilex aquifolium Ia	440	2L Container	20-40cm	4 per LM
Lavandula angustifolia 'Hidcote' La H	88	3L Container	40-60cm	5 per LM

HERBACEOUS PERENNIALS & GRASSES				
LATIN NAME	QUANTITY	FORM	HEIGHT	DENSITY
Carex elata 'Aurea' CeA	42	3L		7/sqm
Deschampsia cespitosa 'Goldtau' Dc G	16	3L		4/sqm
Festuca glauca 'Blauglut' Fg B	18	3L		7/sqm
Miscanthus sinensis 'Morning Light' Ms ML	19	3L		1/sqm

SHRUBS				
LATIN NAME	QUANTITY	FORM	HEIGHT	DENSITY
Aucuba japonica 'Rozannie' Aj R	23	3L	30-40cm	4/sqm
Brachyglottis 'Sunshine' Bs	10	3L	30-40cm	4/sqm
Cornus stolonifera 'Flaviramea' Cs F	11	3L	40-60cm	3/sqm
Cornus alba Sibrica Ca S	11	3L	40-60cm	3/sqm
Cornus sanguinea 'Midwinter Fire' Cs MF	11	3L	40-60cm	3/sqm
Choisya ternata 'Sundance' Ct S	10	3L	30-40cm	4/sqm
Euonymus fortunei 'Emerald'n'Gold' Ef EG	18	3L	30-40cm	4/sqm
Euonymus fortunei 'Silver Queen' Ef SQ	12	3L	30-40cm	4/sqm
Hebe 'Red Edge' H RE	27	3L	30-40cm	4/sqm
Lavandula angustifolia 'Hidcote' LaH	6	3L	40-50cm	4/sqm
Lonicera nitida 'Baggesen's Gold' LnBG	12	3L	30-40cm	4/sqm
Lonicera nitida 'Maigrun' Ln MG	12	3L	30-40cm	4/sqm
Prunus laurocerasus 'Otto Luyken' PlOl	35	3L	30-40cm	4/sqm
Pittosporum tenuifolium 'Tom Thumb' Pt TT	18	3L	30-40cm	4/sqm
Sarcococca hookeriana var. humilis Sh H	23	3L	30-40cm	4/sqm
Santolina chamaecyparissus 'Lemon Queen' ScLQ	11	3L	30-40cm	5/sqm
Skimmia japonica 'Rubella' Sj R	23	3L	30-40cm	4/sqm
Viburnum davidii Vd	29	3L	30-40cm	4/sqm
Vinca minor 'Gruner Teopich' Vm GT	20	2L	15-20cm	8/sqm

CLIMBERS				
Lonicera periclymenum Lp	9	9P	20-40cm	as shown

BULBS				
Narcissus obvallaris N o	1143	12 / +		3 per plug at 300mm cts



NOTES:
This drawing is to be read in conjunction with all relevant contract documentation from the design team, with any conflicting information to be brought to the attention of Robinson Chartered Landscape Architecture in writing before commencing on site.

The contractor is to check and verify all levels and dimensions before construction. Any discrepancies are to be brought to the attention of Robinson Chartered Landscape Architecture in writing before commencing on site.

All dimensions in mm, unless otherwise stated.

Do not scale from this drawing.

All sub base and concrete specification to engineer's details.

Waterproofing of any element to be specified by others.

All proprietary products shall be installed in accordance with manufacturers written instructions.

Plants should be ordered to suit site areas in accordance with scheduled plant densities.

Any proposed plant substitution shall be agreed with the landscape architect prior to ordering.

Do not scale areas or dimensions from this plan as the layout has been derived from a large scale OS base plan.

It is the contractors responsibility to ascertain the positions of all underground and above services.

Tree locations and design layout may be subject to change following an accurate survey of all service locations.

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KEY

Existing Trees to be Retained

Specimen Trees Heavy Standards 12-14cm girth

Native Tree Planting Standards 8-10cm girth

Native Hedgerow Mix Length: 128.5 Lm
(with 900mm supporting post & wire mesh fenceline)

Native Thornless Hedgerow Mix Length: 75.5 Lm
-to garden boundaries only
(with 1.2m high supporting timber post & wire netting mesh fenceline)

Formal Native Hedgeline Length: 110 Lm
eg Ilex aquifolium
(with 900mm supporting post & wire mesh fenceline)

Native Scrub Mix
(See Dwg 9315-SL-01A for Site Wide GI)

Ornamental Planting Mix
eg nectar & berry rich planting
Total Area: 83 sqm

Ornamental Entrance Driveway Hedgeline
-single species nectar & berry rich
Total Length: 17 Lm

Native Bulb Planting (naturalising)
Total Area: 32.5 sqm

Turfing
Total Area: 600 sqm

Flowering Lawn Mix
eg Emorsgate EL1
TOTAL AREA : 94 sqm

GENERAL PLANTING NOTES

1) Materials and workmanship shall generally be in accordance with the following documents- BS3936 Nursery Stock and BS4428 Recommendations for General Landscape Operations.
Plant material to be the sizes and dimensions as stated in the schedule and shall be healthy with good fibrous root systems. All of the plants to be of native genetic origin.

2) Setting out of plant areas and fenceliines to be approved on site by Contract Administrator (CA).

3) Woodland mix to be planted in matrix formation with staggered rows at 1 per sq m spacing. New hedging to be planted in double staggered rows at 450mm centres.

5) New planting is to be protected with spiral guards or shrub shelters as detailed within the specification.

6) The site is to be maintained for an agreed period following practical completion. During this period any trees, shrubs or other plants that die, fail to show leaf or are below specification for any reason shall be replaced. All replacement stock shall comply with the original specification and be obtained from a reputable supplier.

Maintenance shall include weeding, control of insects, fungus and other diseases by means of spraying with an approved insecticide or fungicide, pruning, adjustment and repair of tree stakes, ties and fencing and other horticultural operations necessary for the proper growth of the plants and to keep the area neat in appearance, including removal of litter. Grass areas shall be maintained in accordance with a written Landscape Management Plan.

General Planting Notes
All plants to be healthy, hardened-off and with good fibrous root systems and to comply with the requirements of BS3936 Specification for Nursery Stock. All planting to be undertaken in accordance with BS4428 Code of Practice for General Landscape Operations.
All plants to be protected from wind exposure at all times. All plants to be soaked in water for several hours prior to planting and to be well watered in. No planting to be carried out during poor weather conditions, i.e. when ground is frozen, waterlogged, or during droughts, hot sunshine or persistent dry or cold winds. All plant material to receive enough water to ensure healthy establishment.

Cultivation
Cultivate the soil of all areas prior to seeding and planting. This should include loosening, aerating and breaking up soil into particles 2-8mm to depth of 150mm. Remove any undesirable material brought to surface to a depth of 100mm including visible weeds, roots and large stones or clay balls with any dimensior exceeding 30mm. Final cultivation prior to seeding topsoil shall be brought to a fine tilth by approved mechanical means or by hanc raking, and if necessary regrading of the surface will be carried out to conform to the prescribed finished levels.

Subsoil
Subsoil grading of the site shall leave landscape areas with smooth flowing contours to achieve the specified finished levels when topsoiled. Prior to topsoiling, subsoil formation should be ripped and loosened to a minimum depth of 450mm. Imported subsoil shall be in accordance with BS3882 for amenity use.

Topsoiling
Topsoil to general planting and grass seeded areas to be to BS3882:2015 Multipurpose Grade.
Soil to wildflower seeded areas to be to BS3882 Economy Grade with low nitrogen and phosphorous content.
Topsoil must be free from pernicious weeds anc roots, clay lumps, non-soil materials, brck or other building materials, foreign matter and chemical contamination. Topsoil should be spread evenly over areas to be seeded and planted. Minimum topsoil depths after settlement shall be: Grass-150mm, Shrubs-450mm and Trees-900mm. Topsoil shall be spread in layers not exceeding 150mm and firm each layer before spreading the next. At the time of laying, both material and weather should be reasonably dry. Soil levels should be 30mm higher than adjacent kerbs and paving after settlement and married in with existing levels.

Weed Treatment
All areas to be planted are to be treated with a glyphosate weedkiller a minimum of 10 days prior to planting. Planted areas are to be kept weed free with the use of herbicides. Following the use of herbicides remove dead vegetation.

Planting General
All plant material to be supplied in accordance with HTA National Plant Specification. All planting to be local provenance wherever possible and from local supplier.

Tree Planting
Trees to be pit planted. Minimum pit size: 900 x 900 x 900mm. Excavate tree pits with slightly raised centre. Retain topsoil for re-use. Dig a hole which is substantially bigger than the volume of roots to be accommodated. Break up and loosen the base and sides of tre pit. The trees will be planted to the same depth as they were in the nursery. Back fill the pit in stages, whilst firming up the soil around the roots until the original ground level is restored.
Tree pits to be filled with 1:3 mixture of compost and topsoil. Topsoil to contain peat free organic matter and slow release fertiliser to be incorporated into each pit.

Staking
Stake all specimen heave standards trees with high double staking. Stake all standard trees with single staking. Stakes to be first grade pressure impregnated round timber and chamfered tops. Position stake close to the tree on windward side and drive vertically at least 300mm into the bottom of the pit before planting. Backfilling: consolidate material around stake. Height of stakes: cut to approximately one third of of the tree height above ground level. Twc: hessian e.g. NaturaTie by Green Blue Urban. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

Root Barrier Membranes
For all proposed trees centred in a location within 3m of an adjacent hard standing/footpath or carriageway kerb line, a proprietary root barrier membrane is to be installed to protect the hard standing and any underground services located beneath from future damage by tree roots.
Root barrier membrane(s) to be installed on the tree side along the back edge of the kerb / edging restraint to the adjacent hard standing and are to extend a minimum 1m in each direction from a point taken perpendicular from the tree trunk to the kerb/edging face.
For services up to a depth of 800mm, use 'Ranser 1002' by Greenleaf Ltd or equal and approved, ribbed root barrier membrane, to a depth of 1000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

Shrub Planting
Plant shrubs and groundcover into pre-prepared planting beds consisting of topsoil to a depth of no less than 450mm, overlying clean subsoil, mixed with soil conditioner as specified below.
Subsoil to be fully snoker-up by main corntractor to ensure adequate decompaction and alleviate free-drainage.
Topsoil to be either; existing retained site sourced topsoil (free from weeds) or imported topsoil imported topsoil (Multi-purpose grade to BS3882:2007) or a combination of the two as necessary.
Incorporate a soil conditioner/ameliorant in the form of peat free general-purpose shrub compost or well rotted spent mushroom compost across planting bed in a 50mm layer at the rate of 300g per m2, and incorporate to a depth of 225mm.
Dig planting holes for shrubs to be a depth of 200mm and y width or 150mm greater than the source pot size, ensuring that pit walls are loosened to ensure good drainage.
Install a proprietary geo-textile weed suppressant membrane onto the surface of the pre-prepared shrub planting beds with minimum 300mm laps, pegged in place. Cover with a nominal 50-75mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm.
Ensure planting appears random / natural and not formal in accordance with the planting proposal layouts as supplied by the Landscape Architect.
The contractor shall take the necessary precautions to ensure all shrub areas are protected throughout the establishment period by temporary fencing.

Hedge Planting
Plant hedges into pre-prepared planting trenches for double staggered rows and to consist of topsoil to a depth of no less than 450mm, mixed with soil conditioner as specified below.
Incorporate supporting post and wire mesh fencing to centre of hedging as indicated on plan. Use proprietory ties to secure plant stems to horizontal straining wires- contractor choice.
Incorporate a soil conditioner/ameliorant in the form of peat free general-purpose shrub compost or well rotted spent mushroom compost along planting trench in a 50mm layer at the rate of 300g per m2, and incorporate to a depth of 225mm.
Ensure planting strips are deep enough as to be 200mm greater than the root depth of the supplied plant stock.
All hedge planting areas to be dressed with a minimum 50-75mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm.

Woodland/Thicket Planting
Install plants into collated pre-prepared planting pits, generally 300 x 300 x 450mm deep or 200mm greater than the rootstock, whichever is greater, backfilling with either existing retained site sourced topsoil (tree from weeds) or imported topsoil (sa-ely loam, General Purpose grade to BS3882:2007) or a combination of the two as necessary. Mulching as contractor choice.
Incorporate a soil conditioner/ameliorant in the form of peat free tree and shrub compost or well rotted spent mushroom compost into backfill material at the rate of 5L per pit, incorporating a slow release fertiliser e.g. Enmag (or similar approved) at a rate of 5g per pit.
Ensure planting conforms to planting mat rix (where appropriate) and in all other areas appears random / natural and not formal in accordance with the planting proposal layouts.

Plant Protection
Thicket areas to be fully enclosed by min. 1200mm high post and three galvonised wire fencing.
All bucry thicket shrubs to be dressed with a minimum 50-75mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm.
All single stem thicket transplants to be protected by min. 450mm high x 50mm proprietary plastic spiral guards secured with min. 12-14lb x 900mm long bamboo cane.
All trees and thicket plants to be installed with a min. 500mm square, woven polypropylene mulch mat securely pegged in place, with remaining ground between plants overscwn with shade tolerant grass seed mix.

Grass Seeding
After cultivation operations have been carried out, use a pre-seed herbicide on areas to be seeded. Sow areas to be seeded with grass seed which has been stored off the ground in a clean, dry place free from ver•min. Following an even distribution of seed, the contractor shall carry out a light raking or light harrowing of the area and ensure consolidation of the seed with the soil by the use of a light roller. All reasonable precautions shall be taken to ensure that pedestrian and other traffc does not cross areas during cultivation and until the grass has es•ablished.

Mulch
Mulch whole surface of tree and shrub planted areas with 50mm minimum depth of chipped natural British forest biomass containing minimum of 70% wood content of particle size 35-45mm. The mulch shall be free of pest, disease or weec contamination for handover.

General Planting Maintenance
All soft landscape areas to be maintained to BS7370-4:1993.
Sufficient watering should be undertaken by the contractor to establish and maintain healthy plant growth.
The first cut / mow of all amenity grass seeded areas should be undertaken when the established sward reaches 50mm in height down to a height of 25mm, after which all amenity grassed areas should be maintained in accordance with the Landscape Management Plan. All arisings are to be removed from site and composted.
All failed / defective plants identified within the first 5 years of installation should be replaced by the contractor at the soonest available planting season to ensure a continued coverage of growth. Replacement plants should be of the same species and specification of the failed specimens.
Bare areas and areas of dead grass which become apparent should be rectified by oversseding and/or turf re-installation at the soonest available planting season.
All amenity grassed areas and planting beds should receive an application of a proprietary slow release fertiliser twice yearly in the spring and the autumn.
All shrub planting and formal hedges shall be pruned at least twice per annum, removing dead or dying wood, to maintain a healthy, natural shape and promote good form.
Dead heading of herbaceous plants including flowering marginal aquatic plants, should se undertaken following flowering.
All planting areas should be kept tidy and free from weeds, trimmings, debris and litter. Weeds should be removed by hand unless it is unfeasible; whereby weeds can be treated by the application of a suitable proprietary herbicide.
Herbicide usage to be limited to spray usage or calm days (no wind) and undertaken by suitably qualified operatives in accordance with current legislation.
Tree stakes, ties and guards should be chcked annually for adjustment and/or replacement/removal as required.
All amenity grassed areas should be scarified annually in the autumn to remove thatch conditions and the build-up of dead grass. Following annual scarification, grassed areas should be thoroughly spiked to aerate soil and improve drainage.
Within tree root protection areas (RPA's), all scarifying/spiking should be carried out sensitively by hand and the use of vehicular mounted machinery will not be permitted within these areas.
Areas of shrub planting with a bark mulch layer should be topped up annually in the spring to retain moisture and limit weed growth, to a nominal depth of 50-75mm.

THIS DRAWING SHOWS ONLY ON-PLOT PLANTING SETTING OUT
TO BE READ IN CONJUNCTION WITH SOFT LANDSCAPE PLAN 9315-SL-01A
-Full Site Wide Planting Planning Drawing

DATE	DRAWN	DESCRIPTION OF REVISION	REVISION LETTER	CHECKED BY
18/12/21	IDR	First Issue	-	IDR

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Drawing status -
Construction

Client
Mr C Gaddes

Project
Windmill Hill Quarry, Brierley Road, Grimethorpe

Drawing title
ON-PLOT SOFT LANDSCAPE PLAN
INCLUDING PLANT SETTING OUT

Drawing scale	Drawn by	Drawn date
1 : 50	IDR	18-12-21
Paper size	Checked by	Checked date
A0	IDR	18-12-21

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