NOTES

Do not scale from this drawing electronically or manually, use written dimensions only.

All dimensions are in millimeters unless stated otherwise.

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CDM 2015

The Construction (Design and Management) Regulations 2015 (CDM 2015) makes a distinction between domestic and commercial clients and outlines the duties you, as client, have under Health and Safety Law (HSE).

These duties can be found at.

http://www.hse.gov.uk/construction/cdm/2015/responsibilities.htm

It is your responsibility as client to make yourself aware of your role within CDM 2015 and act accordingly.

KEY

- Ebor Way/ Dales Way Recreational Route
- Existing Watercourse
- Existing Vegetation to be retained
- Root Protection Area (RPA)
- Minimal disruption to existing grassland
- Existing Easement
- **Category A tree as defined by BS5837:2012 to be retained:** HIGH Quality/ value
- **Category B tree/vegetation as defined by BS5837:2012 to be retained:** MODERATE Quality/ value
- **Category C tree as defined by BS5837:2012 to be retained:** LOW Quality/ value
- Tree Groups: Shown as dashed centre/boundary line. Colour represents category (see above)
- Proposed Tree: Extra Heavy Standard
- Proposed Native Species Hedgerow (NSHM)
- Proposed Native Shrub Buffer Mix (NSBM)
- Proposed Native Woodland Mix (NSWM)
- Proposed Meadow Grass Mix: maintained short
- Proposed Meadow Grass Mix: maintained long
- Proposed landform / mounding: 1m contours to tie in with existing levels

Note:
All Trees marked with "*" symbol have Tree Protection Orders (TPO).

PLANTING NOTES

The handling of plants to be in accordance with National Plant Specification 'Handling and Establishing Landscape Plants'. All plants and planting operations are to comply with the requirements and recommendations of all current relevant British Standard specification including but not limited to:

- BS 8545. Trees: From Nursery to Independence in the Landscape
- BS 3936-1:1992. Nursery stock. Specification for trees and shrubs
- BS 3882:2015 - Specification for topsoil
- BS 4428:1989. Code of practice for general landscape operations (excluding hard surfaces) (AMD 6784)
- BS 5837: 2012 Trees in relation to design, demolition and construction. Recommendations
- BS 7370-3:1991. Grounds maintenance. Recommendations for maintenance of amenity and functional turf (other than sports turf)

All planting to be native species and of local provenance and to be carried out during appropriate climatic conditions and where possible in the optimal planting period October through until March. Existing topsoil and/or imported, clean/inert horticultural ameliorants from sustainable UK sources. Contractor to satisfy themselves of measurements on site and the full extent of works before pricing.

Clearance
Cut back all grass and perennial vegetation including brambles, suckering and epicormic growth to a height of 25-50mm across site where planting is to be located. All existing trees and shrubs marked for removal to be removed prior to implementing proposals including grubbing out and stump grinding as applicable to site conditions. All rubbish, debris and existing **redundant** infrastructure and tipped waste to be removed. Stone picking of all stones and debris over 25mm diameter to be undertaken.

Topsoil and surface vegetation (areas covered by grass and where shrub removal and clearance work as above has occurred) to be treated with two applications of selective broadleaf herbicide prior to planting and seeding, and strictly in accordance with the Control of Pesticides Regulations 1986 (COPR) (as amended 1997) (or, otherwise, updated/superseded legislation) and following manufacturer's instructions by qualified staff.

All trees and shrubs to be retained must be protected during works in line with BS5837:2012 and as set out in the Arboricultural Method Statement and supporting drawing suite.

Tree works
All approved works to existing trees to be undertaken in line with BS 3998:2010 Tree Work.

Subsoil
Subsoil to be scarified to 200mm depth prior to spreading of topsoil. No cultivation should take place in wet/ waterlogged conditions and within the RPA's of existing trees. For areas proposed for wildflowers existing subsoil where in situ should be retained and seed sown into the subsoil in line with suppliers specification. Topsoil should not be added to areas used for wildflowers to aid establishment and where possible a soil strip should be undertaken to remove the best and

Topsoil
Shall be a minimum of 400mm deep over new planting beds where trees, shrubs and hedges are planted within pits unless noted otherwise (e.g. deeper pits required for Heavy Standard Trees and Native Hedgerow Mix) and graded to fall. Imported topsoil must be BS 3882:2015 compliant and existing topsoil must be cultivated in accordance with BS 3882:2015 outside RPA's of existing trees. No cultivation should take place in wet/ waterlogged conditions and within the RPA's of existing trees. Where topsoil is added under existing trees to fill depressions in the surface such additions should be no greater than 100mm depth in line with BS5837:2012.

Proposed Tree Planting
Excavated material to be separated into topsoil and subsoil and stockpiled for backfilling. Pits to be excavated with slightly raised centre; bottom to be scarified to a depth of 200mm, with soil ameliorant worked in to base. Tree pit sides to be scarified. Tree pits to be backfilled with excavated material from tree pit, installed to original soil profiles in accordance with BS 8545: 2014.

Extra Heavy Standard trees to be planted in pits 1000x1000x600mm or 75 mm deeper than root system/rootball, whichever is greater. Tree to be supported by 2no. stakes (1500mm long, 900mm above ground, 75mm diameter), cross bar (400x100x15mm) and 2no. biodegradeable ties. All trees to have 1.75-2m clear stem.

Standard trees to be planted in pits 650x650x450mm or dimensions of rootball, whichever is greater. Tree to be supported by 1Nr stake (1500mm long, per tree, 600mm above ground, 75mm diameter), and 1Nr biodegradeable tie. All trees to have 1.75-2m clear stem.

Feathered trees to be planted in pits 600x600x350 or dimensions of rootball, whichever is greater. Tree to be supported by 1Nr stake (1500mm long, per tree, 600mm above ground, 75mm diameter), and 1Nr biodegradeable tie.

Trees in grass to have bark mulch circle at the base.

1 no. 25kg bag of soil improver and 140g Enmag slow release fertiliser to be incorporated into the soil of all new tree pits. Trees to be planted centrally within the tree pit.

Trees to be planted centrally within a tree pit.

Trees within grassed areas to be fitted with strimmer guards.

Proposed foundation design to be in accordance with NHBC standards in proximity to existing and proposed trees and shrubs.

Proposed Native Species Buffer Mix

Plants shall be randomly mixed throughout the beds in groups of 3, 5 or 7. Planting shall be at the specified density of 1 per m2, and plants to be planted in pits (300mm wide x 400mm deep avoiding tree roots).

Native Woodland Mix
Plants shall be randomly mixed throughout the beds in groups of 3, 5 or 7. Planting shall be at the specified density of 1.5m centres, and plants to be planted in pits (300mm wide x 400mm deep avoiding tree roots).

Native Species Hedge Mix (NSHM)
Hedges to comprise a double staggered row of plants 450mm apart within each row, overall 5 plants per linear meter. Species mixed throughout the hedge line in random groups of 3/5. 750mm wide trench excavated to take plants and topsoil cultivated to 450mm depth prior to application of fertiliser. Once planted, reduce height of feathered hedging plants by 100-150mm to create a uniform shape to the hedge. All native planting shall be of local provenance/UK grown.

Mulch
Geotextile Weed-control fabric to be laid across any areas of bare earth following planting and up to the edge of the planting bed where it adjoins hard standing or grass). Planting beds to receive 75mm depth pulverised ornamental bark mulch.
Geotextile Weed-control fabric to be laid across any areas of bare earth following planting and up to the edge of the planting bed where it adjoins hard standing or grass). Planting beds to receive 75mm depth pulverised ornamental bark mulch. Ensure the top of the mulch layer is a minimum of 15mm below adjacent pavements and other surfaces, to prevent spillage.

Plant position
Final position of trees and shrubs subject to confirmation of service location and approval of statutory undertakers. Allow for location of service information prior to work commencing on site.

Grass
All over-seeded areas to be scarified removing any stones, rubble, subsoil, and general construction/ historic site waste. Areas of hard standing to be treated in line with engineers specification.
Amenity grassland to be seeded during March to April or September. Topsoil to seeding areas be rotavated and levelled as required with any debris or stones greater than 20mm Ø removed. Pre-seed fertiliser to be applied in accordance with manufacturer's instructions. Harrow areas after sowing. Refer to schedules for seed mixes and sowing rates.

Wildflower meadow seeding to be undertaken in line with manufacturers specification. No fertiliser to be used and sowing to be undertaken between September to April . Refer to schedules for seed mixes and sowing rates.

All over-seeded areas to be scarified removing any stones, rubble, subsoil, and general construction/ historic site waste. Areas of hard standing to be treated in line with engineers specification. Area to be left fallow for 6 weeks and any emergent weeds sprayed off using an appropriate herbicide. Site to be ploughed to a depth of 150-220mm to reduce nutrients. Land to be disked or power harrowed in dry weather conditions to prepare the seedbed. Seeds to be broadcast by hand or machine. After seeding the area should be rolled to ensure good seed to soil contact.
Seed to be sown as per suppliers recommendation usually in Autumn or Spring.

Protection to planting
Shelter guards to be utilsied if required to protect from rabbits. Guards to be Bio-Earth Biodegradable Plastic Free Tree Shelter by Green-tech or equivalent.

Planting Season
Bare-root shrubs to be planted between mid-November and mid-March dependant upon the planting season.

Existing pond
Appropriate habitat survey work should be undertaken before carrying out any management and maintenance work on the pond.
- Remove fallen trees and trees growing in the water to create open water;
- Remove any sources of water pollution; and
- Do not place cut vegetation from the top of the bank, to prevent decaying material and run-off from falling in and polluting the pond.

PLANTING SCHEDULE

Proposed Native Tree Species
To be planted as per Landscape Architects specification

No.	Code	Species	Common name	Form	Height (cm)	Girth (cm)	Root
15	Ac	Acer campestre	Field Maple	Extra Heavy Standard	425-600	14-16	RB
2	AcEQ	Acer platanoides 'Emerald Queen'	Acer var.	Extra Heavy Standard	425-600	14-16	RB
12	Bp	Betula pendula	Silver Birch	Extra Heavy Standard	425-600	14-16	RB
3	Bu	Betula utilis jacquemontii	Himilayan Birch	Extra Heavy Standard	425-600	14-16	RB
14	Cb	Carpinus betulus	Hornbeam	Extra Heavy Standard	425-600	14-16	RB
4	Fs	Fagus Sylvatica	Common Beech	Extra Heavy Standard	425-600	14-16	RB
6	Pa	Prunus avium	Cherry	Extra Heavy Standard	425-600	14-16	RB
2	Pcc	Pyrus calleryana 'Chanticleer'	Ornamnetal Pear	Extra Heavy Standard	425-600	14-16	RB
5	Ps	Prunus spinosa	Blackthorn	Extra Heavy Standard	425-600	14-16	RB
37	Qr	Quercus robur	English Oak	Extra Heavy Standard	425-600	14-16	RB
10	Sau	Sorbus aucuparia	Rowan	Extra Heavy Standard	425-600	14-16	RB
3	Tc	Tilia cordata	Small Leaved Lime	Extra Heavy Standard	425-600	14-16	RB
16	TcG	Tilia cordata 'Greenspire'	Lime var.	Extra Heavy Standard	425-600	14-16	RB

Proposed Native Species Buffer (NSBM) - 1 per m2
To be planted informally

No.	%	Code	Species	Common name	Form	Height (cm)	Root	Container (L)
806	15	Cs	Cornus sanguinea	Dogwood	Whip	40-60	B	-
1343	25	Cm	Crataegus monogyna	Hawthorn	Whip	40-60	B	-
269	5	Ia	Ilex aquifolium	Holly	Whip	30-40	C	3
537	10	Lv	Ligustrum vulgare	Privet	Whip	40-60	B	-
1343	25	Ps	Prunus spinosa	Blackthorn	Whip	40-60	B	-
537	10	Rc	Rosa canina	Dog Rose	Whip	40-60	B	-
537	10	Vo	Viburnum opulus	Guelder Rose	Whip	40-60	B	-

Proposed Native Species Woodland Mix (NSWM) - 1.5 m centres
To be planted informally

No.	%	Code	Species	Common name	Form	Height (cm)	Root	Container (L)
373	10	Ac	Acer campestre	Field Maple	Feathered	125-150	B	-
560	15	Cav	Betula pendula	Silver Birch	Feathered	125-150	B	-
373	10	Ac	Cornus sanguinea	Dogwood	Whip	40-60	B	-
560	15	Cm	Crataegus monogyna	Hawthorn	Whip	40-60	B	-
187	5	Ps	Ligustrum vulgare	Privet	Whip	40-60	B	-
187	5	Rc	Prunus padus	Bird Cherry	Feathered	125-150	B	-
373	10	Rc	Prunus spinosa	Blackthorn	Whip	40-60	B	-
373	10	Rc	Quercus robur	Oak	Standard	200-250	RB	-
187	5	Rc	Rosa canina	Dog Rose	Whip	40-60	B	-
373	10	Sn	Sorbus aucuparia	Rowan	Whip	40-60	B	-
187	5	Vo	Viburnum opulus	Guelder Rose	Standard	200-250	RB	-

Proposed Native Species Hedge Mix (NSHM) - 5 per l/m
To be planted informally, once planted, reduce height of feathered hedging plants by 100-150mm to create a uniform shape.

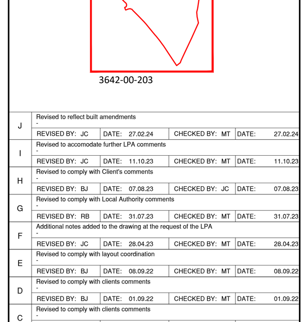
No.	%	Code	Species	Common name	Form	Height (cm)	Root	Container (L)
154	20	Cb	Carpinus betulus	Hornbeam	Feathered	125-150	B	-
306	40	Cm	Crategus monogyna	Hawthorn	Feathered	125-150	B	-
153	20	Ia	Ilex aquifolium	Holly	Whip	60-80	C	3
77	10	Ps	Prunus spinosa	Blackthorn	Feathered	125-150	B	-
77	10	Rc	Rosa canina	Dog Rose	Whip	60-80	B	-

GRASS SEED MIXES:

Public Open Space areas:
Festuca rubra (Strong Creeping Red Fescue): 35%
Festuca rubra subsp. commutata (Chewings Fescue): 35%
Festuca rubra litoralis (Slender Creeping Red Fescue): 25%
Agrostis capillaris (Browntop Bent): 5%

Meadow mix:
Achillea millefolium (Yarrow): 0.5%
Betonica officinalis - (Stachys officinalis) (Betony): 0.6%
Centaurea nigra (Common Knapweed): 2.5%
Centaurea scabiosa (Greater Knapweed): 0.8%
Daucus carota (Wild Carrot):1%
Filipendula ulmaria (Meadowsweet): 0.6%
Galium album - (Galium mollugo) (Hedge Bedstraw): 0.6%
Galium verum (Lady's Bedstraw): 2%
Knautia arvensis (Field Scabious): 0.4%
Leontodon hispidus (Rough Hawkbit): 0.3%
Leucanthemum vulgare (Oxeye Daisy): 0.6%
Lotus corniculatus (Birdsfoot Trefoil): 0.5%
Origanum vulgare (Wild Marjoram): 0.1%
Plantago media (Hoary Plantain): 0.5%
Poterium sanguisorba - (Sanguisorba minor) (Salad Burnet): 1%
Primula veris (Cowslip): 0.4%
Prunella vulgaris (Selfheal): 2%
Ranunculus acris (Meadow Buttercup): 2.5%
Rhinanthus minor (Yellow Rattle): 1%
Rumex acetosa (Common Sorrel): 0.6%
Silene dioica (Red Campion): 1.2%
Silene flos-cuculi - (Lychnis flos-cuculi) (Ragged Robin): 0.2%
Trifolium pratense (Wild Red Clover): 0.1%
Agrostis capillaris (Common Bent): 8%
Cynosurus cristatus (Crested Dogstail): 40%
Festuca rubra (Slender-creeping Red-fescue): 28%
Phleum bertolonii (Smaller Cat's-tail): 4%

SHEET KEY (NTS)



Rev	Description	Revised by	Date	Checked by	Date
J	Revised to reflect built amendments	JC	27.02.24	MT	27.02.24
I	Revised to accomodate further LPA comments	JC	11.10.23	MT	11.10.23
H	Revised to comply with Client's comments	BJ	07.08.23	JC	07.08.23
G	Revised to comply with Local Authority comments	RB	31.07.23	MT	31.07.23
F	Additional notes added to the drawing at the request of the LPA	JC	28.04.23	MT	28.04.23
E	Revised to comply with layout coordination	BJ	08.09.22	MT	08.09.22
D	Revised to comply with clients comments	BJ	01.09.22	MT	01.09.22
C	Revised to comply with clients comments	BJ	25.08.22	JC	25.08.22
B	Revised to comply with clients comments	MT	05.08.22	SA	05.08.22
A	Revised to add planting schedule	MT	04.08.22	SA	04.08.22

PURPOSE OF ISSUE: For Planning Submission
RIBA STAGE: 4a

DRAWING STATUS: S2

PROJECT TITLE: Breary Lane, Bramhope

CLIENT: Miller Homes

DRAWING TITLE: Detailed Landscape Boundary Proposals (3 of 3)
SCALE: 1:500

DATE	DRAWN BY	CHECKED BY	APPROVED BY
04.08.22	MT	JM	SA

DRAWING NUMBER

PROJECT NO	TYPE	UNIQUE NO	REVISION
3642	00	205	J

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