

SPECIFICATION NOTES - These implementation and maintenance specification notes are for planning purposes only and do not constitute a detailed landscape specification.

SITE PREPARATION

Imported Topsoil

Imported topsoil shall be to BS 3882: 2015. Specification for topsoil and requirements for use, Multi-purpose grade - (Landscape 20) and be of medium texture with a high proportion of loamy material. It shall be free from subsoil, rubbish, roots of perennial weeds and other injurious to plant growth. Imported topsoil shall be from an approved source and a sample submitted and analyzed/tested at an independent approved laboratory. Soil Handling: The soils shall be handled in accordance to the Good Practice Guide for Handling Soils. Soil handling shall only take place during the driest parts of the year to prevent compaction of the in situ soils. All topsoil used for planting shall be tested by an approved Topsoil Analysts and any required amelioration or soil improver required shall be carried out in accordance with the topsoil Analyst Report.

The topsoil shall be free from harmful trace elements, including phytotoxic and zootoxic elements harmful both to plant growth and man. The topsoil should be tested by physical and chemical analysis and should state clearly the physical characteristics of the soil, levels of micro-nutrients and chemical content. All fertilizers and added nutrients shall be applied by a qualified staff or supervised so the correct application is undertaken.

Preparation for Topsoil Re-spread

Topsoil shall be spread following completion of all hard landscape building works, following a thorough clearance and removal of building debris. Bottom of tree pit broken up to a depth of 150-200mm and scarify sides. Tree pits within soft landscape areas: min. 1000 x 1000mm x 300mm deep (min). Depth of tree pit dependant of depth of rootball; check dimensions of rootballs prior to planting. Tree pits backfilled with 300mm imported topsoil over subsoil. Hedge and shrub planting areas: minimum 300mm deep.

Grass areas: minimum 150mm deep. No new top soiling operations to take place within the RPA's.

Ameliorant's: Fertilizers & composts: Landscape contractor responsible for submitting imported topsoil analysis to inform requirements. All topsoil ameliorant's (compost & fertilizers), approved peat - free to PAS100 & incorporated during backfilling & cultivation at required rate to full depth of growing medium.

Root Protection Area beneath Existing Trees: No new top soiling operations to take place within the RPA - all new native hedgerow and shrub planting within RPA's to be notched planted into existing soil on site, using hand tools only to minimize root damage. If significant roots are encountered, these will be left undamaged and plants locally adjusted. **Existing trees:** All existing trees to be retained shall be protected in accordance with BS 5837:2012 - Trees in Relation to Construction. Existing levels shall be retained around existing trees to be retained. Any tree works pruning to existing trees within the site shall comply with the BS 3998: 2010, Tree Work Recommendations and undertaken by an Arboricultural Association approved Contractor.

Backfilling with Topsoil

Tree pits and shrub beds shall be backfilled, in layers, with previously prepared topsoil excavated from the tree pit and imported topsoil as required. Topsoil thoroughly mixed with planting organic compost and slow release fertilizer shall be used to plant all trees, shrubs and hedges. All finished levels shall be 25mm above adjacent paving. The shrubs shall be shaken during backfilling to avoid air pockets and the soil must be firmed as the hole is filled. All backfilled material shall include an organic compost and slow release fertilizer. No new top soiling operations to take place within the RPA.

Cultivation: Topsoil shall be cultivated to a minimum of 400-450mm deep on planting areas to a medium tilth, removing all rubbish, vegetation, perennial weeds, roots, stones over 50mm in any one dimension and raked to even levels. No cultivation operations to take place within the RPA's.

PLANTING

Plant Stock and Timing

Plant material shall conform to BS 3936 Part 1: 1992, Part 2: 1990; Part 9: 1998; Part 10: 1990 and BS4043: 1989 and shall be protected at all times in transit to the site. The planting season shall be from 1st October to the 31st March. Planting shall not be carried out during periods of frost, drought, cold drying winds, or when the soil is waterlogged.

The planting shall be carried out in the first planting season following practical completion of the building and hard landscaping. Planting outside the planting season will require adequate watering to ensure establishment. All new native hedgerow and shrub planting within RPA's to be pit planted into existing soil on site, using hand tools only to minimize root damage. If significant roots are encountered, these will be left undamaged and plants locally adjusted.

Planting

All trees, hedges & shrub planting shall be planted upright at the same depth as the nursery soil level and evenly spaced, leaving room for growth. Allow at least 300mm clearance between the rootball and the edge of the pit to facilitate staking and to allow adequate amount of backfill around the root ball. Trees shall be planted upright and at the same depth as the grown nursery soil level with the root collar being at finished soil level, and evenly spaced, leaving room for growth. Allow at least 150-300mm clearance between the rootball and the edge of the pit to facilitate staking and to allow adequate amount of backfill around the rootball.

Individual trees: All tree planting in accordance with BS8545:2014 Trees: From Nursery to Independence in the Landscape - Recommendations. Trees shall be pit planted and supported by either double staking or for multi stem trees underground guying system to BS 4043:1989. Stakes shall be softwood, peeled chestnut or larch, free from projections and large knots, with one end pointed. Each stake secured to cross bar using galvanised nails. Tree secured to stake with rubber tree tie and tree cushion spacer/pad, fixed to support the tree. All fixing nails shall be galvanised annular ring. For underground guying system: the underground guying system shall be the designed to secure the root ball/ container grown trees/ multi-stem trees: supplied and installed in accordance with the manufacturers instructions/ specification. Green Blue Arborguy system or equivalent approved shall be used. Use of aluminum ratchet strainers or equivalent approved. Immediately following planting, all plants shall be watered-in to field capacity.

AMENITY GRASS AREAS: amenity garden grass areas shall be turfed with Species Rich Lawn Turf (WFT-Species-Rich-26) supplied by Wildflower Turf Ltd. Turf shall be in accordance with BS 3969: 1990 and be good quality, uniform in size and thickness with a dense cover of good colour and free from weeds, pests and diseases. The turf shall be seeded in 18-30mm thick. Pre-turfing fertiliser shall be applied to all seeded and turf areas and shall be laid in accordance with BS 4428: 1989 and suppliers recommendations.

WILDFLOWER GRASS AREAS: seeded with Emorsgate Seed Mix Woodland Mixture (EW1) supplied by Emorsgate Seeds refer to drawing for location. All seeded areas shall be seeded in accordance with the manufacturers instructions.

MULCH: Prior to the application of mulch, the planting areas shall be completely weed free and watered sufficiently to achieve field capacity. The surface of the planting areas shall be mulched with a layer of fine composted bark mulch (0-8mm bark) to a depth of 50-75mm, ensuring that the low branches of shrubs plants are not smothered. Supplied by AHS Ltd or similar approved. The mulch shall be topped-up to maintain, after settlement, a depth of not less than 50mm.

IMPLEMENTATION

All trees, hedges and shrub planting areas shall be carried out in the first planting season after all the building works and the hard landscaping areas have been set out and completed.

AFTER CARE PERIOD

Maintenance :The Aftercare Period shall extend for a five year period. During the Aftercare Period maintenance visits shall be carried out, at least monthly from April to September and twice during the dormant season to carry out the following operations to establish healthy growing plants in weed free areas. Maintenance operations shall include: watering, firming-up all plants and adjust tree ties, stakes, pest and disease control, grass cutting, general pruning, hedge trimming, weed control, removal of litter, fork over beds, top up mulch and autumn tidying. Removal of defective plants and plant replacements in the following planting season. Replacement plant stock if required or necessary shall be of similar species, size and form with the appropriate support as the original specification. Minor pruning all woody plants to remove deadwood and achieve an overall balanced canopy - where necessary. Need to consider and avoid breeding bird season (March- July/August). Hedge trimming - Trimmed annually outside the bird nesting season which is March- July/August. Check for invasive species and remove from site. Health & Safety: Trees adjacent to public paths or adjacent to buildings to be inspected annually and remedial tree works carried out where necessary. All plants, which have died, are missing or have failed to thrive, shall be noted and replaced annually for a period of five years with the same size and species as originally planted, in the following planting season.



PROPOSED PLANTING SCHEDULE

TREES	Number	Gerth	Height	Pot Size	Species	Specification	Density
1	1	1.4-1.6m	100-120cm	45L	Amelanchier lamarkii 'Robin Hill'	Heavy Standard - Clear Stem 175-200 C	Counted
2	1	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
3	1	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
4	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
5	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
6	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
7	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
8	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
9	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
10	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
11	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
12	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
13	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
14	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
15	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
16	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
17	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
18	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
19	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
20	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
21	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
22	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
23	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
24	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
25	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
26	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
27	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
28	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
29	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
30	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
31	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
32	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
33	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
34	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
35	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
36	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
37	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
38	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
39	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
40	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
41	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
42	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
43	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
44	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
45	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
46	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
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49	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
50	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
51	2	2.1-4cm	150-400mm	45L	Malus baccata 'Street Parade'	Heavy Standard - Clear Stem 175-200 RB	Counted
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