CHARTERED LANDSCAPE ARCHITECTS
ARCHITECTURAL SERVICES
ARBORICULTURISTS
ECOLOGISTS

PLOT LANDSCAPE SPECIFICATION

FOR THE SITE AT
Wayland Road South, Gorton
JBA (N) 06/824

PLANNING AND
BUILDING CONTROL
09 FEB 2012

ON BEHALF OF
Bloor Homes North West Ltd

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SPECIFICATION FOR SOFT WORKS

1.0 GENERAL

1.1 Setting Out

All areas to be planted and seeded shall be set out in accordance with the contract documents. Setting out shall be carried out using pegs, lines and site marker paint, with sufficient pegs to accurately and smoothly convey curves and changes of direction. All regular curves and circles shall be set out using radii, utilising a central steel rod securely driven into the ground with the appropriate length of line tied to a pointed peg to scribe the ground. Once an even curve has been established, the line shall be made more permanent and visible with marker paint.

The Contractor shall satisfy himself that the existing ground levels as indicated on the Drawings or schedules of cross section levels are correct. The line of levels shall be carefully set out, frequently checked and maintained throughout the works.

All setting out shall be inspected by the employer's site agent (or their advisors) before works commence on site. Any works commenced without express authority solely from the employer's site agent, and which are found to be incorrectly positioned, shall be broken out, adjusted or replaced as appropriate (in the sole opinion of the employer's site agent and his advisors), at the Landscape Contractor's own expense.

1.2 Site Features

Before starting work the Contractor shall verify which existing trees, hedges, shrubs, grass areas, fences, gates, walls, roads, paved areas and other site features are to be retained or removed. Any damage to existing structures, vegetation, watercourses or paving by the contractor in the course of, or in consequence of his operations, shall be made good at his own expense. Care shall be taken to prevent any contamination of either topsoil or watercourses by clay, subsoil, fuel oil, chemicals and debris of any kind during the course of the works.

1.3 Existing Trees and Hedges

NO TREE OR SHRUB IS TO BE REMOVED unless specifically shown on the landscape drawings / tree survey unless it is agreed ON SITE with the Contract Administrator following discussion with the Local Planning Authority. All trees and hedges to be retained shall be protected during the course of the works from damage with fencing erection to BS 5837: 1991 paragraph 8 and figure 4, and BS 1722 : Part 4 (see clause 3.1). No work or trafficking shall take place within 3.0m of the branch spread of existing trees before protective fencing is erected. No materials, fill or topsoil shall be stored under or near to existing or newly planted trees.

GENERAL Continued: -

The Contractor shall be liable for making good, compensation or replacement as appropriate for any damage to existing trees, as directed by the Contract Administrator.

1.4 Existing Services
During the works, it shall be the responsibility of the Contractor to ascertain the location of any live water, gas, electricity or telecom services and to protect these at all times.

1.5 Use of Chemical Herbicides and Pesticides
All work involving chemicals including supply, transport, storage, handling, equipment, application, cleaning of equipment and disposal of waste chemicals and containers shall comply with current legislation (including the Control of Pesticide Regulations 1986 and COSHH Regulations 1994) and HSE recommendations. Any chemical herbicides or pesticides used shall be supplied or handled by personnel holding an appropriate National Proficiency Tests Council certificate of competence for pesticide application.

Records must be kept of all operations involving the application of herbicides and or pesticides. Full copies of these records must be sent to the Contract Administrator upon completion of each application. Chemicals supplied must be in accordance with the current BAA approved list, appropriate for the job in hand, and must be applied strictly in accordance with the manufacturers directions and product COSHH sheet, with particular attention to application rates and times of year of application. Waste pesticides or containers shall be disposed of safely off site, including any surplus spray.

Where chemical application work is carried out near water, drainage ditches or land drains, it shall comply with the DEFRA 'Code of Practice for the use of use of herbicides on weeds in watercourses and lakes', and shall be Environment Agency approved.

Where such chemical applications are intended are intended to take place within, or adjacent to, wildlife habitat areas, the substances shall first be approved by English Nature.

2.0 EXCAVATING AND FILLING

2.1 Excavation of Topsoil
Before beginning general excavation or filling excavate topsoil from required areas to an average depth of 300mm and keep separate from excavated subsoil. Topsoil for re-use shall be handled in a manner consistent with the preservation of a good crumb structure of the soil. Soil being stripped or stacked shall not be handled when wet or during wet conditions, compaction shall be kept to a minimum.

EXCAVATING AND FILLING Continued:-

2.2 Storage of Topsoil and Subsoil

Stockpile all excavated preserved topsoil and subsoil for making up levels in temporary spoil heaps in locations on site as directed by Contract Administrator. Subsoil shall be in separate locations from topsoil.

Soils in stockpiles shall be stored in piles no greater than 1.5m high. No tracked or wheeled machinery shall be allowed on or over the stockpile. The stockpile shall be shaped so as to shed water. Stockpile positions must be agreed with the Contract Administrator and shall not be relocated without authorisation from the Contract Administrator. Stockpiles shall be kept weed free with appropriate herbicide.

2.3 Debris Clearance and Materials Arising

Remove all sheet material, pipes, rods, bars and bands, timber objects and canisters / containers from the surface or sticking out of the surface, off the site.

Materials of any kind obtained from the excavation shall remain the property of the employer. Such material shall be dealt with as provided in the contract but the Contract Administrator shall have power to direct its use in the works or disposal by other means.

Spread surplus excavated soil and level on site as directed by the contract administrator in locations no more than 1000m from site of excavation.

2.4 Compaction

Areas drawn as soft landscape (grass, trees, shrubs etc.) must not become compacted by the contractor's operations. The contractor shall plan all haul routes and working areas, avoiding areas of soft landscape wherever possible. Where compaction occurs the contractor shall alleviate it in areas of soft landscape by machine digging to a depth of 600mm or the full depth of soil which ever is the lesser. Upon completion it must be possible to insert a soil auger by hand to a depth of 600mm or the full depth into the soil.

SPECIFICATION FOR SOFT WORKS Continued:-

EXCAVATING AND FILLING Continued:-

2.5 Landscape Fill/"Soil" Generally

Subsoil, brick, concrete, ceramic or stone demolition waste or other materials may be used for fill provided they meet the following specification. Fill/soil shall be capable of sustaining good plant growth and be free draining. It shall exclude any or all of the following:

- Any potentially leachate or landfill gas generating material such as: material from marshes or bogs, peat, timber, logs, stumps, plant waste, slurry, plaster, felt or other perishable or toxic materials.
- Material susceptible to spontaneous combustion.
- Materials with excessive moisture content.
- Material contaminated with oil, diesel, petrol or any other substance toxic to plant growth, animals or humans.
- Over 30% lime mortar.
- Wire or steel reinforcement.
- Sheet material.
- Asbestos or contaminated waste.

All fill shall be approved by the Contract Administrator prior to use.

2.6 Shallow Fill Soil

The following fill specification shall be used for depths 200-500mm below final levels:-

pH: 5.5-7.5

Maximum size of 'stone' in any direction: 150mm (e.g. half bricks)

Maximum % of stones in 100-500mm range: 25%

Electrical conductivity: below 1500 micomhos per cm in 1:2.5 soil: water extract

Available Phosphorus (P): not less than 70ppm when extracted with 4.2%

$NaHCO_3$ at pH 8.5.

Available Potassium (K): not less than 300ppm when extracted with 8% ammonium nitrate.

Free of weed seeds, roots of perennial weeds, sticks, wire, steel reinforcement, plastic, paper.

Examples of materials that may be considered: As above with addition of coarser brick and demolition waste.

2.7 Medium Depth Fill/Soil

The following fill specification shall be used for depths 500-1000mm below final levels:-

pH: 5.5-7.5

Maximum size of 'stone' in any direction: 300mm (e.g. large bricks)

Maximum % of stones in 250-300mm range: 25%

Free of roots of perennial weeds, sticks, wire, steel reinforcement, plastic, paper.

Examples of materials that may be considered: As above with the addition of coarser brick, demolition waste, and broken up bitmac.

EXCAVATING AND FILLING Continued:-

2.8 Deep Fill/Subsoil
The following specification shall be used for depths deeper than 1000mm:-
PH: 5.0-7.5
Obtain approval of a sample of material prior to use.

3.0 GROUND WORKS PREPARATION

3.1 Topsoil Areas
Following excavation or filling, subsoil shall be graded to smooth flowing contours to achieve the specified finished levels of topsoil (see clause 4.3.4). Excavate locally as necessary for areas of thicker topsoil. Prior to placing of topsoil, existing subsoil or topsoil shall be cleared of rubble, debris or stones exceeding 50mm in diameter, perennial weeds, roots or other plant matter. The soil shall be uncontaminated by petrol or oil spillages or toxic substances.

Before spreading topsoil, excavated bottoms shall be broken up and free-draining. Compacted ground shall be broken up by machine or hand (according to the size of the area, availability etc). Large areas shall be deep ripped at 500mm centres to a depth of 450mm, removing any large stones, concrete etc. Areas within 5 metres of the drip line of the canopies of existing trees or hedges shall be relieved by hand forking avoiding damage to roots. Regrade subsoil to formation levels and compact lightly prior to placing topsoil.

All planting shall take place in topsoil that shall comply with BS 3882: 1994, and shall be preferably be indigenous to the local area, or from topsoil piles stored on site. Topsoil, obtained from stockpiles on site, shall be transported carefully to the place of spreading in order to minimise loss or unnecessary destruction of soil structure during spreading. Overall minimum depths after firming and settlement to be:

Native whip planting: 400mm
Shrubs: 350mm
Seeded Areas: 150mm
Tree pits:
Standard Tree Pits: 1000 x 1000 x 800mm
Feathered Tree Pits: 650 x 650 x 650mm

GROUND WORKS PREPARATION Continued:-

For all planting operations, including structural and ornamental shrubs and all trees, (but not including native notch planted whips in tree belts or seeded and turfed areas), the finished level following settlement shall be 95mm below adjacent grass or paved surfaces and on sloping areas this shall be at least within 400-600mm of all edges. To allow for 75mm depth of woodchip mulch, the topsoil level shall be 90mm below adjacent grass or paved surfaces. This will require the adjustment of base levels. In the case of shrub planted areas, topsoil shall be a minimum of 300mm deep, requiring the subsoil base level to be a minimum of 390mm below adjacent finished surfaces.
For all seeded and turfed areas, the finished topsoil level shall be 0-10mm (maximum tolerance), below adjacent paved surfaces, or 90mm above the topsoil level of adjacent areas to be planted.
For all planting operations involving native notch planted whips in tree belts, the finished topsoil level shall be as existing. However, where mulch is specified close to grass or paved surfaces, then the first 500mm from the edge of the bed shall be graded so that the very edge is clearly cut to a depth of 65-90mm (maximum tolerance), below adjacent grass or paved surfaces. This will require the use of a half moon edging tool and the soil shall then be graded back to marry in with the existing level. Where this existing level is higher than the adjacent surfaces, then the width of the strip requiring adjustment will have to be widened to ensure that the maximum slope is 1:4. Where grading operations occur, take care not to damage any live tree roots, which shall be left insitu.
Existing cultivated and prepared topsoil shall be fertilized with Fison's "Ficote" 140 day 16:10:10 slow release fertilizer at 100g per m2.

4.0 SEEDING

4.1 General
All seeding shall be performed by experienced workmen in accordance with BS 4428 Landscape Operations, and good horticultural practice and under the supervision of a skilled person in charge.

Work shall be carried during appropriate seasons and while soil and weather conditions are suitable for the relevant operations. In particular this shall mean that weather conditions shall be suitably calm; and the soil shall be damp but not wet.

Only machinery and tools suitable for the site conditions and the work to be carried out shall be used. Use hand tools around trees, plants and in confirmed spaces where it is impracticable to use machinery.

Clearly mark boundaries of seeding areas in accordance with clause 4.1.1 and obtain approval before starting work.

SEEDING Continued:-

4.2 Cultivation

Existing topsoil of all areas to be seeded shall be rotovated to a depth of 150mm, following a deep rip at 500mm centres to a depth of 600mm. Take care not to deep rip within 10m of existing trees or 3m of existing hedges (or anywhere that roots greater than 100mm diameter are encountered). When soil is reasonably dry and workable, grade to smooth flowing contours with falls for adequate drainage. Rake surface to form a fine tilth, removing all rocks, stones and organic debris greater than 15mm diameter, ensuring soil conforms to BS 3882: 1994. Ensure that topsoil levels are flush with adjacent paved surfaces (max tolerance 10mm below – 0mm above).

After a minimum of six weeks, spray by a skilled and qualified operative, any weed growth, in accordance with Control of Pesticide regulations 1986 and COSHH regulations 1994 & product COSHH sheet, with a suitable translocated systemic herbicide, and in suitable, calm weather conditions. Repeat herbicide treatment if kill is not entirely complete. After a minimum of two weeks, rake off dead growth and cart away.

4.3 Fertiliser

Supply, spread and rake in British Seed Houses "B. S. H. 1" granular fertiliser, obtainable from BSH Ltd on (01925) 654411, at a rate of 70g/m2, 9-10 days prior to seeding to the manufacturers instructions. **DO NOT APPLY FERTILISER IN AREAS TO BE WILDLFOWER SEEDED.**

4.4 Seed Mixes

Amenity grass areas shall be seeded with a low-growing, low maintenance mix such as BAR 13 available from Barenbrug (Tel. 01359 272000) or similar and approved at a sowing rate of 35 g/m2.

Wildflower mixes shall be selected from the following list:-
Dry areas: Standard General Purpose Meadow Mixture EM2
Low lying areas: Meadow Mixture for Wet Soils EM8
Ditch and stormwater reservoir edges: Pond Edge Mixture EP1sown up to the edge of water
All mixes are available from Emorsgate Seeds (Tel. 01553 829028) or similar and approved. All shall be sown at a rate of 4g/m2.

All seed shall be purchased fresh for each growing season. Seed purchased from previous seasons shall not be used. The seed mixes shall have:
Germination capacity: Not less than 90%
Purity of mixture: Not less than 90%
Total weed seed content: Not more than 0.5%
Total content of other crop seeds: Not more than 1%

The seed shall be in sealed bags, which are clearly labelled with the named constituents of the mix, and from an approved source.

SPECIFICATION FOR SOFT WORKS Continued:-

SEEDING Continued:-

4.5 Sowing

Sowing shall only take place during suitably calm weather conditions, and when the seedbed is suitably damp at appropriate times of year. Spread seed evenly at the specified rate(s) applied in two equal sowings in transverse directions. Lightly harrow or rake to ensure the seed is a few millimetres below the surface. Roll using a very light roller or cylinder mower leaving the surface even and level. Water thoroughly to field capacity

4.6 Plug Planting

Following the establishment of seeded areas along ditches and the edges of the stormwater reservoir shall be supplemented with the planting of marginal aquatic species. All species shall be planted bare root stock with a trowel or spade using the notch planting method at a density of 5/m2. During planting care shall be taken to ensure the plants do not dry out.

4.7 Establishment

During establishment of grass areas, ensure that sufficient water is applied to maintain a moist soil using a fine rose or sprinkler.

First cutting shall be carried out as follows:-

Amenity Grass Areas: Mow when the grass reaches 50mm tall remove debris, litter and stones and roll with a light roller. About 48 hours later cut with a roto scythe to a cutting height of 35mm. Mow again after 10 days to a height of 25mm. Continue to cut and stone rake until grass is fully established, including hand weeding of persistent residual weeds.

Wildflower Areas: Strim once in late October to a height of 125mm and once in mid March to a height of 150mm. Strim again at the end of August or early September to a height of 75mm. Hand weed out all persistent residual weeds.

Ditch and stormwater reservoir seeding and planting: Strim once in late October to a height of 125mm and once in mid March to a height of 150mm. Strim again at the end of August or early September to a height of 75mm. Hand weed out all persistent residual weeds.

Following each cut all arisings shall be removed from site. Adjacent hard surfaces shall be swept clear.

Any grass areas that do not establish shall be made good by recultivation and reseeding in accordance with the specification outlined above at a time agreed with the Contract Administrator.

SPECIFICATION FOR SOFT WORKS Continued:-

5.0 PLANTING GENERALLY

5.1 General

All planting work shall be performed by experienced operatives in accordance with BS4428 Landscape Operations, and good horticultural practice, under the supervision of a skilled foreman. The contractor must ensure that the operatives carrying out the planting are fully briefed as to the precise requirements of the planting plan, and specification and have a copy of all drawings and specification on site. Adequate supervision shall be provided to ensure that the grouping or mixing of the species shown on the plan is carefully adhered to.

Work shall be carried out only when soil and weather conditions are suitable for the relevant operations. Transplant only during the following periods:

Open ground deciduous trees and shrubs: Late October to late March.

Evergreens: Early to late spring.

Containerised, pot grown and root balled plants: At any time if ground and weather conditions are favourable i.e. except during periods of sustained low rainfall, frost, wind or heat. Planting shall not be permitted during hot, dry and sunny conditions nor during blowing frost.

Only machinery and tools suitable for the site conditions and the work to be carried out shall be used. Use hand tools around trees, plants and in confined spaced where it is impracticable to use machinery.

Clearly mark boundaries of seeding areas and obtain approval before starting work.

5.2 Plant Supply

The contractor shall be responsible for ensuring that all pants are delivered to site, either by the supplier or if collected by the contractor, in impeccable condition. While stock is being transported to the planting site it shall be protected from drying out and direct sunlight at all times. The contractor shall ensure that the Code of Practice for plant handling, published by the Joint Liaison Committee on plant supplies is strictly adhered to at all times. On arrival on site plants shall be carefully unloaded and stacked in preparation for planting, and protected from damage or drying out prior to planting.

The Contractor shall check quantities and quality of materials as they are delivered, all dockets shall be signed and made available for inspection. All transplant trees and shrubs shall be packed in polythene bags. The top of each bag shall be securely tied and labelled with species and quantity. All transplants shall have their roots enclosed but must be protected by straw within the bag. Feathered materials up to 2.25m in height shall be tied in bundles of 10. The roots shall be protected by straw, and encased in 500 gauge (minimum) polythene bags. The top of

each bag shall be securely tied and labelled. Standard and feathered material from 2.25-2.75m in height shall be tied in bundles of 5 and protected, encased and labelled as above.

SPECIFICATION FOR SOFT WORKS Continued:-

PLANTING GENERALLY Continued:-

5.3 Plant Stock

Plants shall be top quality stock of garden centre standard. Plants shall be true to name, well branched and symmetrically shaped, of a normal habit for the particular species. All plants shall conform to the sizes given in the schedule and these measurements shall be the minimum acceptable size for each species.

Nursery stock must comply in all aspects with the current relevant editions of British standards, with particular reference to:-

BS 3936 part 1: 1992: Trees and shrubs.

BS 3936 part 10: 1989: Groundcover plants.

British standards in respect of origin, root system, and condition of stock, packaging, labelling and dimensions shall be complied with. Plants shall comply with the HTA National Plant Specification, unless specified otherwise.

Plants may be inspected for approval by the Contract Administrator prior to planting, but approval at this time does not preclude rejection of plants for defects, which may appear later in the progress of the works.

5.4 Substitution

If specified plants are unobtainable alternatives may be submitted with the tender, stating price and how they differ from the specification. Such substitutions may not be acceptable and submission of further alternatives may be required. Obtain approval before making any substitution.

5.5 Storage

Upon arrival the plants shall be placed in a cool shaded place. Plants which are not to be planted on day of delivery to site to be stored as follows on the same day: -

ROOT-BALLED PLANTS shall be placed cheek-to-cheek, well watered,

and the ball covered with sand or moist peat to prevent drying out.

BARE-ROOTED TRANSPLANTS AND SHRUBS shall be watered and well heeled in, in trenches with the bundles opened and loosened. If plants are to be heeled in for any length of time bare rooted plants shall be separated out from the bundles and spaced out in a row.

- CONTAINER GROWN PLANTS shall be placed close together in blocks and watered.

All stock shall be watered regularly to prevent drying out and the contractor shall ensure that all stock is moist when planted. If planting is to be carried out on the

same day as delivery all stock shall be handled in such a manner as to minimise risk of damage or desiccation. This shall include: all bare roots to be moist and covered with polythene or tarpaulin at all times until the immediate point of planting, including during the planting operation when bundles of plants shall be carried in an approved planting bag.

SPECIFICATION FOR SOFT WORKS Continued:-

PLANTING GENERALLY Continued:-

5.7 Surplus Material

Surplus material including subsoil, stones, debris etc, can be used for fill as necessary. Any other material including wrapping material and prunings to be removed from site.

5.8 Mulches

Mulch for all planting areas and trees shall be "**Rustic** Biomulch" available from Melcourt Industries Ltd. (tel. 01666 503919) or similar and approved. Rustic Biomulch is a no fines, coarse graded / large particle (45-60mm) woodchip mulch of dark brown colour.

6.0 TREE PLANTING

6.1 Specification

The size and specification of all standard and feathered trees shall be to BS 336 Nursery Stock, Part 1 1992; Specification for trees and shrubs, size designation as scheduled. All feathered trees shall be 180-210cm high. All standard trees shall be 8-10cm girth. All trees shall be open ground stock excluding Birch and Beech which shall be container grown. Transplant in accordance with BS 4428 unless otherwise specified.

6.2 Tree Pits

Excavate tree pits, taking care to stack topsoil and subsoil separately. Pits shall be not less than the following:

Feathered Trees: 800 x 800 x 600mm

Standard Trees: 1000 x 1000 x 800mm

Where necessary increase these dimensions to ensure that pits are at least 75mm deeper than the root system and wide enough to accommodate roots when fully spread. Break up bottom and sides of pit to a depth of 150mm to ensure adequate drainage.

6.3 Planting Procedure

All planting shall be carried out to BS 4428 : 1989 or BS 4043 : 1989, as appropriate. Ensure roots are well watered and moist before planting. Protect roots at all times from drying out. This shall include transporting bare rooted plants to the planting site in a suitable protective container or bag. On planting cut back any broken or damaged roots to sound growth, treating cut ends over 25cm with fungicidal sealant. Do not remove fine fibrous roots unnecessarily. Plant trees upright, in the centre of each pit and at original soil depth.

Plant bare root trees, placing backfill material in 150-250mm layers, shaking tree to ensure close contact with roots and elimination of air pockets. Firm the soil as backfilling proceeds, taking care not to damage any roots. Heel in firmly around root collar.

Plant containerised trees by carefully removing them from the container at planting position so the rootball remains intact. Loosen roots and backfill material around the rootball in 150mm layers, taking care not to damage any roots.

SPECIFICATION FOR SOFT WORKS Continued:-

TREE PLANTING Continued:-

6.4 Backfilling Pit

On backfilling tree pit dispose of any excavated clay, rubble etc. Backfill incorporating Fisons "Ficote" 140 day 16,10,10 slow release fertilizer to the manufacturers instructions and 30 litres of non-peat based compost into good quality excavated or stockpiled topsoil. Thoroughly mix compost and soil prior to backfilling. Backfill in layers of no more than 300mm, firming in each layer to a depth of 90mm below any adjacent grass surface to allow a radius of 500mm around each tree to receive bark mulch to a depth of 75mm. Water thoroughly with 30L of water immediately after backfilling. Finished levels of bark mulch shall be 15mm below adjacent grass areas.

6.5 Staking

Feathered trees shall be staked with 1No. stake and placed on the windward side of the tree. Standard trees shall be staked with 2No. stakes placed on the windward and leeward sides of the tree and cross brace. All stakes shall 100mm diameter and 1600mm long of pressure treated softwood to BS 4072, straight, free of projections and pointed at one end.

Each stake shall be driven in until the top of the stake is a maximum of 600mm above finished ground levels. Stakes shall not be inserted directly into the rootball.

Tie tree once to stake / crossbar with an adjustable tree tie with spacing device. Fix ties within 25mm of the top of the stake.

SPECIFICATION FOR SOFT WORKS Continued:-

7.0 STRUCTURE PLANTING

7.1 Specification

The size and specification of all shrubs and whips shall be to BS 336 Nursery Stock, Part 1 1992; Specification for trees and shrubs, size designation as scheduled. Plant shrubs true to size, variety, species, quantity, quality and location specified. Replace withthin 14 days any stock rejected by the employer's site agent and his advisors. All ornamental species shall utilise 3L container grown stock with height and spread between 30-40cm and 60-90cm, according to variety. All native species in buffer and structural areas shall be open ground whips, 600-900mm in height, except evergreen species, which shall be supplied in 3L containers. Whips shall have a well-developed fibrous root system with a good root to shoot balance.

7.2 Cultivation

Areas to be planted with native whip and shrub planting (see clause 3.3.1) shall be cultivated by deep ripping using a tractor-mounted ripper, at 500mm centres to a depth of 600mm. Surface cultivate within 10m of existing trees and hedges or where roots greater than 10mm diameter are found. Using a skilled and qualified operative spray with a suitable translocated systemic herbicide, if there is any weed growth before planting, in accordance with Control of Pesticide regulations 1986 and COSHH regulations 1994 & product COSHH sheet, in suitable calm weather conditions. Repeat spray if the initial kill is incomplete. After 3 weeks remove all dead vegetative material, any stones larger than 50mm diameter, litter and all other debris to leave an even and obstruction free surface.

Areas to be planted with ornamental planting shall be cultivated by rotovating the topsoil to a depth of 300mm, ensuring the ground is completely broken up and free draining. Using a skilled and qualified operative spray with a suitable translocated systemic herbicide, if there is any weed growth before planting, in accordance with Control of Pesticide regulations 1986 and COSHH regulations 1994 & product COSHH sheet, in suitable calm weather conditions. Incorporate 100g/m2 of Fisons "Ficote" 140 day 16,10,10 slow release fertiliser to the manufacturers instruction and a non-peat based compost at 25L/m2. Remove all vegetative material, stones larger than 50mm diameter, litter and all other debris to leave an even and well-cultivated surface. Finished soil levels shall be a minimum of 90mm below adjacent pavement or grass surfaces

(see clause 4.3). The Landscape Contractor shall be responsible for ensuring the levels are correct before commencing works.

SPECIFICATION FOR SOFT WORKS Continued:-

STRUCTURE PLANTING Continued:-

7.3 Native Strategic Shrub and TreePlanting

Native strategic shrub and tree planting shall be planted at a density of 1cm c/s for buffer shrub mixes and subcanopy trees and 2m c/s for canopy trees. Notch plant open ground whips and pit plant container grown shrubs into the cultivated soil, planting each variety in groups as specified on the drawing. Supply and spread 75mm depth of Melcourt Industries "Rustic Biomulch" or similar and approved, to a radius of 500mm around each plant. Water in with 20L water per m^2, applied with a fine spray hose.

Post and wire fencing, 1m high with rabbit mesh shall be erected around the perimeter of areas of native strategic shrub and tree planting. The fencing shall include a post and wire with galvanised rabbit mesh let into the ground 300mm and returned. Straining posts shall be 1800mm long and 150mm diameter, extending 800mm below ground level. The pointed posts will be driven into the ground at 30m centres, all ends, corners, and definite changes in level and direction. Straining posts will be supported with 75mm diameter braces, let into ground 550mm and notched and nailed to posts with galvanised nails. Intermediate posts shall be 1600mm long and 100mm diameter at 2.7m centres, driven into the ground to a depth of 600mm. 8mm gauge wire strands (3 No.) shall be tightly strung to the posts, 50mm from the top, 75mm from the bottom and half way between them. Supply and fix winders at 30m intervals and tighten wires. Supply and fix rabbit mesh to wires using galvanised 25mm long staples (4No. per post) and let into ground to a depth of 300mm. Ensure ground is well firmed afterwards.

Double maintenance access gates and single pedestrian access gates shall be provided where indicated on the plan. Gate posts shall be 150 x 150mm sawn square posts, 1800mm long and set into a 450 x 450 x 500mm concrete foundation (C:20:P mix), haunched. The rails and the stiles of each gate shall be constructed from 90 x 38mm timber all joined using mortice and tenon joints secured with dowels and waterproof glue. Gates shall be fixed to gateposts using MAC 132-350 300mm long heavy galvanised strip hinges painted black, 2No. per gate. Gates shall include 1No. galvanised 230mm padlock bolt with MAC 117-120 64mm "Squire" brass padlock (to Local Authority approval) and 2No.

galvanised drop bolt with galvanised drop bolt holes set into a hard surface.

All timber shall be sawn softwood CCA treated to BS 4072: part 1, tanalised to a dark brown stain finish.

Smaller areas of planting shall be protected using "Tubex Shrubshelters," 0.6m high (contact Tubex Ltd. 01483 224813), or similar and approved, 1No. per plant fixed according to the manufacturers instructions.

SPECIFICATION FOR SOFT WORKS Continued:-

STRUCTURE PLANTING Continued:-

7.4 Incidental Ornamental Planting

Incidental ornamental planting shall be planted at 3/m2 or 4/m2 in increasing height bands from groundcover planting adjacent to pedestrian routes to medium and tall shrubs against walls and fences. Before planting ensure pots are well watered and the soil is damp. Remove any non-biodegradable containers and carefully prune any badly damaged roots. Pit plant in groups and individual specimens in exact positions as drawn, excavating pits 300 x 300 x 300, increasing pits in size where necessary to ensure that pits are at least 75mm deeper than the root system and wide enough to accommodate roots when fully spread. Plant shrubs upright or well balanced with their best side to the front. Carefully return excavated topsoil, packing around evenly spread roots or root ball and heel well in. Immediately after planting shrubs carefully cut back any damaged, dead or diseased branches and remove any weak, thin or malformed growth (where and to the extent appropriate for the species cut back to encourage growth) and water in with 20L water per m^2, applied with a fine spray hose.

Supply and evenly spread 75mm depth of Melcourt Industries "Rustic Biomulch" or similar and approved. Mulch levels shall be 15mm below adjacent paved and grass areas so that the mulch does not blow (or get scratched by dogs and birds) onto these adjacent surfaces, or cause problems with mowing. This second process shall be carried out following planting operations.