











JAMES BLAKE

ASSOCIATES

Our Ref: JBA 18/351 ECO15 SR

Persimmon nomes Suffolk

10th June 2021

RE: Letter to accompany Lighting scheme at Haverhill Phase 2A; Condition 5.

Introduction

In order to inform discharge of Condition 5 of Reserved Matters Ref: DC/0615/RM, Persimmon Homes Suffolk appointed James Blake Associates to assess the ecology aspects on Haverhill Phase 2A in regards to the proposed external lighting.

This letter addresses condition 4 which states;

"Prior to any above ground construction details of a light minimization strategy, as recommended in the submitted bat activity survey report, shall be submitted to the local planning authority and agreed in writing. The strategy shall cover the construction and post construction phases and be based on the recommendations set out in section 5.2 of the bat activity survey report."

Background

The site is located to the north of Ann Suckling Road, north of Haverhill town in Suffolk. The wider landscape includes mainly arable fields with scattered woodland. Norney Plantation County Wildlife Site (CWS), an area of ancient replanted woodland is located north west and the River Stour lays approximately 1.8km east of the site.

At the time of the bat activity surveys between April and September 2019 (JBA, 2019), the site comprised a former arable field which had been left to grow up with tall ruderal vegetation. Boundary trees and scrub associated with hedgerows were present on or adjacent to the south, west and east boundary. An active arable field was adjacent to the northern boundary of the site.

Wildlife sensitive areas

Bat activity on Phase 2A was dominated by common pipistrelle and soprano pipistrelle; most activity was recorded on the western boundary, however occasional activity in the form of foraging and commuting was also noted on the north, south and east boundary.

It is considered that the wildlife sensitive areas are boundary trees/hedgerows and any boundary vegetation proposed for the development, particularly to the western boundary. Post-development wildflower areas, tree/shrub and hedgerow planting and the 'woodland edge mix' may provide a new commuting route for bats and badgers, as well as the provision of new foraging opportunities. These proposed habitats will also provide suitable foraging habitats for insects and birds, however lighting will not have a significant impact to these species after sunset. Soft landscape proposals are shown in Appendix A (JBA, 2020).

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Six bat boxes will be installed on the proposed new builds; these will provide additional roosting opportunities within the local area. Box specifications and locations are described within the *detailed soft landscape* proposals for phase 2A plots (JBA, 2020).

Lighting and sensitive areas post-development are highlighted in Appendix B.

The following are recommended in relation to lighting during and after construction;

- Construction activities on site will be conducted within daylight hours;
- If security lighting is required, then this will be kept to the minimal level (as necessary for safety and security);
- · Security lights to be set on short timers and to be sensitive to large moving objects only;
- Lighting, including any proposed street lighting and security lighting, is to be directed away from boundary vegetation as much as possible;
- Lux level of lamps to be as low as possible (while maintaining safe operations) with covers made of glass rather than plastic as this minimises the amount of UV light;
- Lighting scheme shall adhere to the principles outlined in Bats and Lighting in the UK produced by The Bat Conservation Trust in partnership within the Institute of Lighting Engineers (2009).

Evaluation

Very minimal areas of lighting are proposed for the development; a total of three lighting columns are proposed to the centre of Phase 2A, associated with an access road and turning head. No lighting is proposed to the western most area of the site which will be planted with wildflower, native hedgerow and woodland mix. The lighting proposed is as follows;

- 1 no 6M GALVANISED TUBULAR STEEL LIGHTING COLUMN COMPLETE WITH GLASS FLAKE ROOT AND 1NO. POST TOP MOUNTED PHILIPS STELA 2 3010 (LONG) 2.2KIm (LOWEST ENERGY OPTION) NEUTRAL WHITE (4000K) LED LANTERN WITH SRN OPTIC SETTING, COMPLETE WITH PHILIPS DIMMABLE ELECTRONIC CONTROL GEAR, FACTORY FITTED 7-PIN NEMA SOCKET, 1-PART PHOTOCELL #(TELENSA TELECELL UNIT) AND CHARLES ENDIRECT L3 DOUBLE POLE ISOLATOR IN BASE OF COLUMN.
- 2 no 6M GALVANISED TUBULAR STEEL LIGHTING COLUMN COMPLETE WITH GLASS FLAKE ROOT AND 1NO. POST TOP MOUNTED PHILIPS STELA 2 3010 (LONG) 2.2Klm (LOWEST ENERGY OPTION) NEUTRAL WHITE (4000K) LED LANTERN WITH NRN OPTIC SETTING, COMPLETE WITH PHILIPS DIMMABLE ELECTRONIC CONTROL GEAR, FACTORY FITTED 7-PIN NEMA SOCKET, 1-PART PHOTOCELL #(TELENSA TELECELL UNIT) AND CHARLES ENDIRECT L3 DOUBLE POLE ISOLATOR IN BASE OF COLUMN.

The lighting column at the turning head (closest to the northern boundary) will be 'backing onto' the boundary, rather than facing it; this will reduce potential light spillage onto boundary vegetation further north. No sensitive areas are considered to be close to the two remaining lighting columns at the centre of the site.

The street lighting design (drawing number: SL/0001/001) is shown in Appendix C.

Conclusion

In order to inform discharge of Condition 5, Persimmon Homes Suffolk appointed James Blake Associates to assess the ecology aspects on site in regards to the proposed external lighting.

It is considered that the proposed lighting scheme would not have a significant effect on wildlife sensitive areas and Condition 5 can be discharged.

Yours sincerely,

Sam Rigg

Ecologist
James Blake Associates Ltd.

References

Street Lighting Design (Drawing number: SL/0001/001). Approved by Suffolk County Council's Street Lighting Department - signed and dated by Neil D. Evans 15th January 2021.

JBA (2020) JBA 18/351 Detailed Soft Landscape Proposals for Phase 2A Plots. On behalf of Persimmon Homes Suffolk. Revision B.

JBA (2019) Badger Survey Report of Phases 2-6 and Relief Road, Haverhill, Suffolk. On behalf of Persimmon Homes Suffolk.

JBA (2019) Bat Activity Survey Report of Phases 2-6 and Relief Road, Haverhill, Suffolk. On behalf of Persimmon Homes Suffolk.



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I. Pre-planting herbicide application:- Apply by suitable spraying aparatus, an approved translocated systemic herbicide to the manufacturer's instructions and to 1997 Control of Pesticides Regulations and 2003 COSHH regulations on all beds, except those which are both weed free and are to receive agrotextile sheet mulch. Spray immediately if any be a delay before planting, or the area is to be seeded, spray after one month following cultivation, to allow dormant seed to germinate. All spraying shall be carried out by skilled and qualified operatives, using protective clothing, in suitable weather (no wind) and any damage caused by spray drift, from incorrect usage or spillage, shall be rectified at the contractor's own cost. Repeat as necessary to ensure complete kill Carry out the following works to the existing topsoil on site to ensure it Conforms to BS 3882:2015, being

free from rocks larger than 50m diameter, concrete, all roots, wire, brick, and have less than 20% clay. Allow for pre-application of herbicide as above. Fertilise with 100g per meter square of Hortibase CRF (16-8-12) slow release fertilizer, in accordance with the manufacturer's instructions. For beds less than 5 meters in width, fork over thoroughly or machine rotovate soil to a depth of 400mm, ensuring that the subgrade and topsoil are completely broken up and free draining, relieving any compaction. For beds greater than 5 metres in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper at 500mm centres to a depth of 500mm, except where there are services, or within 10 meters of tree stems or 3 meters of existing hedges. Do not rip areas where roots greater than 10mm diameter are encountered.

Determine before submitting a tender, the extent of support from the site manager with ground preparation: ensure soil of all planting beds is graded to a level 65mm below adjacent grass or paved surfaces, (90mm below where agro- textile set mulch is not specified), within 400-600mm of edges to ensure bark or wood chip mulches are retained. Where grass is proposed, then the soil level shall be flush (maximum 10mm below - but never proud) of adjacent paved surfaces, to receive rain water run off. The landscape contractor is responsible for ensuring that the final product conforms to the specification even where the developer and/or main contractor have failed to supply and spread topsoil to the recessed level. The landscape contractor shall allow for adjustment of levels, as specified above, including for re-grading subsoil and topsoil. Where beds are sloping, ensure that topsoil is graded to the specified levels below pavement & grass surfaces within 400mm of the edges of the bed. This is to allow for sheet mulch and bark or wood chip mulch so that mulch does not spill out on to pavements and also to allow surface water to drain from paths on to planted

For sloping areas to be turfed adjacent to paved areas, topsoil levels shall be graded flush with the finished pavement level (or up to 10mm below),to allow surface water to drain from pavements to soft areas. Soil of grass areas should therefore never be proud of paved areas. Soil levels more than 10 mm below pavement edges will cause mower damage on cutting.

5.Imported topsoil (where specified and sanctioned by the employer) for making up ground, shall conform to BS 3882: 2015, and be free from rocks (over 50mm diameter), concrete, roots, wire and brick, and have less than greater than 20% clay. Such soil shall be cultivated as set out above. Representative samples shall first be approved by the landscape architect before being supplied to site. No imported soil shall be supplied to site without a written instruction.

 All planting must be carried out in accordance to the specification and schedule of quantities accompanying these drawings. Refer to the specification for the preparation of existing topsoil and required depths for planting, turfing, and standard trees, and also for maintenance requirements.

No substitutions will be accepted without the prior agreement of the inspecting landscape architect. The contractor shall replace at once at his own cost any stock size, species or variety of plant which has not been specified on the planting plan and schedule, unless prior agreement to a substitution by the landscape architect has been received. All plants shall be true to size specified in the schedule of plants and associated notes, (3L pots are 19cm diameter and 15cm deep). All shrubs, (other than ground cover), shall be 400-600mm height and spread, or otherwise specified for the pot size by the HTA National Plant Specification and be bushy, healthy, disease free stock, not pot bound, leggy or spindly. There should be builders rubble. Soil shall have a clay content of a minimum of 5 breaks per shrub. This specification is the minimum standard required and any stock falling below this standard, in the sole opinion of the inspecting landscape architect, shall be lifted and replaced at the contractor's expense.

All shrubs, herbaceous plants, whips and transplants shall be watered in on planting with 20 litres per square metre. Trees shall be watered in with 25 litres per tree position. Water thereafter during the contract period at weekly intervals with 30 litres of

 Proposed large feathered or standard trees to be true to the species, variety and size as specified on the planting plan, to include 1.6m chestnut stake 600mm above ground and 1000mm below ground) and 1No. sackcloth tie with spacing device positioned 25mm maximum from the top of the post.

5. Turf to be of cultivated grade such as Rowlawn "Medallion", or other of similar quality and source, approved by the landscape architect. The contractor shall replace at once any turf rejected by the landscape architect at his own cost.

6.Self clinging climbing shrubs or wall shrubs, with "S" drawn after the climber name, shall be trained to the wall/fence with heavy duty, plastic coated garden wire. Training wires shall be attached vertically to the wall/fence by means of 125mm long stainless steel eye screw fittings. Position 1No. at 250mm from ground, and 1No. 250mm from top of the wall/fence, and string the wire tightly between the fixings. Train the climber to the wire with plastic coated garden wire

Twining varieties of climber, with "T" drawn after the climber's name (in specially prepared pits or general shrub beds) shall be trained to walls/ fences by mounting ready-made trellis panels 1.8 x 1.8m generally (but 1.8 x 0.6m for corners or where space is restricted). Include for adapting any panels for locations where walls or fences are lower than 1.8m. Fix trellis panels to the walls/ fences using non rusting screws 125mm long (to be approved), incorporating 50mm cube wood spacing blocks to ensure that the panel is mounted sufficiently far from the wall/ fence to allow twining of stems. Ensure that all timber is pressure impregnated with a non phyto-toxic preservative and then painted with a dark brown non phyto-toxix preservative wood stain such as Sadolin "Classic" walnut or similar and approved. Ensure that the trellis is not in contact with the ground. Train the climbing shrub to the trellis with plastic coated garden

Climbers specified outside proposed shrub beds shall have specially prepared climber pits. Climber pits shall be 400mm x 400mm and 600mm deep (minimum size), and be backfilled with topsoil (from site - unless otherwise agreed). Ensure the base of the pit is thoroughly broken up and free draining before back filling with topsoil. Ensure no damage to foundations and services, and make good all structures and surfaces disturbed. Fertilise with 50g of Hortibase CRF (16-8-12) slow release fertilizer. Water with 15 litres of water per climber pit.

 When specified by the additional specification notes on this plan, supply and spread suitable biodegradeable sheet mulch over planting beds, previously, cultivated, graded and fertilized topsoil before planting, and peg down at a minimum of 500mm centres, (300mm at edges) and beds less than 1m wide. Pegging this densely is essential to

prevent flaps of material becoming exposed. Refer to the specification for biodegradable sheet mulch 2. Following planting supply and spread evenly Wood Chip to a depth of 50mm, (75mm if no sheet mulch specified), over all planted areas. Finished mulch levels shall be no higher than 15mm below pavement or grass levels to avoid any spillage onto pavements or lawns. N.B. no substitution of mulch

 All workmanship and materials shall conform to the following codes:-A) General landscape operations (excluding hard surfaces) - BS 4428:1989. B) Trees in relation to construction- BS 5837: 2012 and BS 6549:1999. BS 3998:2010 (recommendations for tree works) unless otherwise specified. Arboricultural Association -Standard Conditions of Contract and Specifications of Tree Works 1996. C) Nursery stock in accordance with latest

specification entitled "National Plant Specification -BS 8545: 2014 Trees from Nursery to Independence in the Landscape -BS 3936-1: 1992 Nursery Stock - Specification for

trees and shrubs. -BS 3936-2: 1990 Nursery Stock- Specification for roses + AMD 6628. -BS 3936- 4: 2007 Nursery stock-Specification for forest trees. -BS 3936-9: 1998 Nursery stock- Specification forbulbs, corms and tubers. -BS 3936-10: 1990 Nursery stock- Specification

for ground cover shrubs. -CPSE-Committee for Plant Establishment, Handling and establishing landscape plants 1996, Part 3, paragraphs 6.2 to 6.6. D) Glossary for Landscape Works BS 4428 :1989 E) Turf - BS 3969:1998- recommendations for turf for general purposes. F) Seeding - EEC Regulations 1974. Use blue labelled certified varieties to EC purity and germination regulations. When requested, submit an officia seed Testing Station Certificate of germination, purity and composition.

G) Topsoil - BS 3882: 2015 H) Pesticides: Control of Pesticides Regulations 1997; The Health and Safety at Work Act 1974; the COSHH Regulation 2003, the product COSHH sheet Water Supply (Water Quality.) Regulations amended 2000; Control of Pollution Act 1974; Hedgerow ACT 1997; Wildlife and Countryside Act 1981; Countryside and Rights of way Act 2000.

1. Any existing trees to be retained, are the responsibility of the main contractor on site who shall take all necessary protective measures set out in BS 5837:2012 to ensure no damage to stems or roots, to prevent compaction from vehicles or storage of materials, contamination of soil from spilages, scorching from fires and instability or stress from changes of soil level. The landscape contractor is however responsible for ensuring that neither plant, materials or labour are cause of any damage to existing trees, and like the employer, the landscape contractor shall replace at once any tree damaged on site, supplying and planting a tree of the same species and size, at his own cost Protection barriers will comprise a scaffold framework in accordance with The framework will consist of vertical and horizontal scaffolds with vertical tubes spaced at no more than

(Heras or similar) panels will be securely fixed on to framework with wire or scaffold clamps. Tubes will be driven into the ground to a minimum depth of Supporting struts will be fixed to the inside of the barrier to ensure maximum rigidity.

B) Ground work 1. Soil levels: soil levels for shrub beds and grass areas should have any compacted subgrade thoroughly broken up by machine before instructing the ground worker to spread topsoil or

the landscape contractor to commence work or the beds will become waterlogged in wet weather and the plants and turf will die. 2. Top soil spread from on site should be to the following minimum depths:- Shrub beds: 450mm.

Grass areas 150mm. allow for excavation of 415mm of the subgrade for shrub beds to leave beds 65mm below finished pavement or grass areas in order to receive sheet and bark mulch, (90mm below where sheet mulch is not to be used). Tree pits will be dug by the landscape contractor. Top soil shall be spread for grass areas flush with any areas of paving and after settlement, the soil level should be no greater than 10mm below paved areas to allow for turf. For areas to be grass seeded, the soil level shall be flush with any finished paved surfaces after settlement (or to a maximum of 5mm below) to allow for rain water to drain onto soft surfaces. Settlement shall be no greater than the tolerances given or problems will be encountered with mowing (the blades in danger of touching concrete edgings) or where soil is proud of pavements, then drainage problems will be encountered.

. Existing topsoil and imported soil shall conform to BS 3882:2007, and be free from compaction, rocks/bricks greater than 50mm diameter, concrete, wire, roots, debris, oil, cement and

1. Hard works, unless otherwise agreed, shall be carried out by the developer or main contractor, and all materials and workmanship shall be in accordance with the construction details and the

2. All paths and edgings shall be set out properly to lines and radii, with all curves scribed on the ground using pointed pegs and string or site marker paint, achieving flowing natural arcs. Setting out shall be agreed with the landscape

3. Hard surfaces shall be constructed after suitable base courses have been laid, taking full account of local site conditions, soft spots and substrate. The indicative depths of base courses are minimum depths assuming suitable substrate

4. All metalwork shall be finished hot dipped galvanized in accordance with BS EN ISO1460. The galvanizer shall be responsible for the thorough removal of all galvanizing smuts (fettling) to the complete satisfaction of the Landscape Architect. The decorating contractor shall prepare the galvanized surface by washing with detergent and water and scrubbing with a scouring pad until all dirt, grease, white rust & sulphates have been removed & then allowed to dry thoroughly. Supply and paint 'lcosit 6630' from Sika Ltd (tel. 01707 374444) applied with a turkhead brush strictly in accordance with the manufacturers instructions, COSHH regulations and the product COSHH sheet. Apply 2No. coats of paint with a dry film thickness of 100 microns per coat. Apply paint only when galvanized surface is thoroughly dry at temperatures above five degrees celsius and in any event above the current dew point temperature. Paint work will be subject to inspection by experts and if found wanting, shall be stripped off, re-prepared and applied entirely at the decorating contractors own cost.

5. All wood work to use ACQ water based wood preservative applied by vacuum pressure by Permawood or other similar and approved company. The timber shall then be stained with 3No. coats of Sadolin 'Classic,' colour 'Walnut' strictly in accordance with the manufacturers instructions, COSHH Regulations 2003 and product COSHH sheet.

SENERAL NOTES L DIMENSIONS IN MILLIMETRES -DO NOT SCALE OFF THIS DRAWING ALL DIMENSIONS TO BE CHECKED ON SITE





PROPOSED STANDARD TREE, INCLUDING DOUBLE STAKE AND

BIODEGRADABLE SHEET AND BARK MULCH (ACCORDING TO

SPECIFICATION). SEE SPECIFICATION NOTES A1-2, B1-3, C1-3,

HEDGE PLANTING, INCLUDING BIODEGRADABLE SHEET AND

QUANTITIES. SEE SPECIFICATION NOTES A1-2, B1-3, B5, C1-3,

WASHED, ROUNDED, BUFF COLOURED GRAVEL, 20mm GAUGE,

CULTIVATED TURF UNLESS OTHERWISE STATED ON PLAN. SEE

BULB PLANTING IN MIXES, SPRING FLOWERING VARIETIES,

REFER TO SCHEDULE FOR FURTHER INFORMATION.

SPECIMEN SHRUBS IN SHRUB BEDS OR PIT PLANTED IN

SPECIFICATION NOTES A1, B1-3, C1-3, D1-2 AND E1.

GENERAL NOTE A1 AND E1. SEE ALSO JAMES BLAKE

GRASS/GRAVEL AREAS. SPECIMEN SHRUBS IN GRASS ARE

MEASURED SEPARATELY IN SCHEDULE OF QUANTITIES. SEE

EXISTING TREE TO BE RETAINED, SEE GENERAL NOTE A1 AND

E1. SEE ALSO JAMES BLAKE ASSOCIATES PLAN AND SCHEDULE

EXISTING VEGETATION GROUP OR HEDGE TO BE RETAINED, SEE

ASSOCIATES PLAN AND SCHEDULE FOR ANY SURGERY WORKS.

SCHWEGLER 1SP HOUSE SPARROW TERRACE. AVAILABLE FROM

NHBS TEL: 01803 865913 OR SIMILAR AND APPROVED. INSTALLED

SCHWEGLER 16S SWIFT BOX. AVAILABLE FROM NHBS TEL: 01803

865913 OR SIMILAR AND APPROVED. INSTALLED UNDER EAVES

INTEGRATED ECO BAT BOX, AVAILABLE FROM NHBS TEL: 01803

865913 OR SIMILAR AND APPROVED. INSTALLED UNDER EAVES

FACING DIRECTION AS SHOWN ON PLAN, OR SIMILAR AND

PROPOSED HEDGEHOG 15 x 15 cm HOLES IN THE BASES OF

0.6M HIGH KNEE RAIL AS PER ARCHITECTS PROPOSALS

1.05M HIGH ESTATE RAILING AS PER ARCHITECTS PROPOSALS

BIODEGRADABLE SHEET AND BARK MULCH (ACCORDING TO

WILDFLOWER MEADOW SEEDED AREA. REFER TO PLANT

MAINTENANCE ACCESS STRIP TO BE WILDFLOWER SEEDED

AREA. REFER TO PLANT SCHEDULE FOR SPECIFICATION OF MIX.

ALLOW FOR RE-ROOT 2000 ROOT BARRIER AVAILABLE FROM

GREENBLUE URBAN OR SIMILAR AND APPROVED. TO BE

DETAILED SOFT LANDSCAPE PROPOSALS FOR PHASE 2A PLOT

CONSTRUCTED TO MANUFACTURERS SPECIFICATIONS.

SCHEDULE FOR SPECIFICATION OF MIX.

FENCES AND WALLS OR GAPS UNDER GATES

UNDER EAVES FACING NORTH OR EAST, OR SIMILAR AND

FACING NORTH OR EAST, OR SIMILAR AND APPROVED.

40mm DEPTH, FINISHED LEVEL 15mm BELOW ADJACENT

SURFACES, LAID OVER 'COVERTEX' OVER LIGHTLY

CONSOLIDATED SUBGRADE.

FOR ANY SURGERY WORKS.

SPECIFICATION NOTES B4, C5 AND E1.

BARK MULCH (ACCORDING TO SPECIFICATION). REFER TO

HEDGE SCHEDULES ON PLAN AND THE SCHEDULE OF

SHRUB AND HERBACEOUS PLANTING, INCLUDING

TIE. SEE SPECIFICATION NOTES A1, B2-3, B5, C1-4, D1-2 AND E1.

the work by the landscape architect and may require

amendment at the contractor's expense.

B) Ground preparation

I. Pre-planting herbicide application: Apply by suitable spraying aparatus, an approved translocated systemic herbicide to the manufacturer's instructions and to 1997 Control of Pesticides Regulations and 2003 COSHH regulations on all beds, except those which are both weed free and are to receive agrotextile sheet mulch. Spray immediately if any weeds are present. If none are showing, but there may be a delay before planting, or the area is to be seeded, spray after one month following cultivation, to allow dormant seed to germinate. All spraying shall be carried out by skilled and qualified operatives, using protective clothing, in suitable weather (no wind) and any damage caused by spray drift, from incorrect usage or spillage, shall be rectified at the contractor's own cost. Repeat as necessary to ensure complete kill and rake off all dead material from site.

Carry out the following works to the existing topsoil on site to ensure it Conforms to BS 3882:2015, being free from rocks larger than 50m diameter, concrete, all roots, wire, brick, and have less than 20% clay. Allow for pre-application of herbicide as above. Fertilise with 100g per meter square of Hortibase CRF (16-8-12) slow release fertilizer, in accordance with the manufacturer's instructions. For beds less than 5 meters in width, fork over thoroughly or machine rotovate soil to a depth of 400mm, ensuring that the subgrade and topsoil are completely broken up and free draining, relieving any compaction. For beds greater than 5 metres in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper

at 500mm centres to a depth of 500mm, except where

there are services, or within 10 meters of tree stems or

3 meters of existing hedges. Do not rip areas where

roots greater than 10mm diameter are encountered. Determine before submitting a tender, the extent of support from the site manager with ground preparation: ensure soil of all planting beds is graded o a level 65mm below adjacent grass or paved surfaces, (90mm below where agro- textile set mulch is not specified), within 400-600mm of edges to ensure bark or wood chip mulches are retained. Where grass is proposed, then the soil level shall be flush (maximum 10mm below - but never proud) of adjacent paved surfaces, to receive rain water run off. The landscape contractor is responsible for ensuring that the final product conforms to the specification even where the developer and/or main contractor have failed to supply and spread topsoil to the recessed level. The landscape contractor shall allow for adjustment of levels, as specified above, including for re-grading subsoil and topsoil. Where beds are sloping, ensure that topsoil is graded to the specified levels below pavement & grass surfaces within 400mm of the edges of the bed. This is to allow for sheet mulch and bark or wood chip mulch so that mulch does not spill out on to pavements and also to

For sloping areas to be turfed adjacent to paved areas, topsoil levels shall be graded flush with the finished pavement level (or up to 10mm below),to allow surface water to drain from pavements to soft areas. Soil of grass areas should therefore never be proud of paved areas. Soil levels more than 10 mm below pavement edges will cause mower damage on cutting.

allow surface water to drain from paths on to planted

5.Imported topsoil (where specified and sanctioned by the employer) for making up ground, shall conform to BS 3882: 2015, and be free from rocks (over 50mm diameter), concrete, roots, wire and brick, and have less than greater than 20% clay. Such soil shall be cultivated as set out above. Representative samples shall first be approved by the landscape architect before being supplied to site. No imported soil shall be supplied to site without a written instruction.

 All planting must be carried out in accordance to the specification and schedule of quantities accompanying these drawings. Refer to the specification for the preparation of existing topsoil and required depths for planting, turfing, and standard trees, and also for maintenance requirements.

No substitutions will be accepted without the prior agreement of the inspecting landscape architect. The contractor shall replace at once at his own cost any stock size, species or variety of plant which has not been specified on the planting plan and schedule, unless prior agreement to a substitution by the landscape architect has been received. All plants shall be true to size specified in the schedule of plants and associated notes, (3L pots are 19cm diameter and 15cm deep). All shrubs, (other than ground cover), shall be 400-600mm height and spread, or otherwise specified for the pot size by the HTA National Plant Specification and be bushy, healthy, disease free stock, not pot bound, leggy or spindly. There should be builders rubble. Soil shall have a clay content of a minimum of 5 breaks per shrub. This specification is the minimum standard required and any stock falling below this standard, in the sole opinion of the inspecting landscape architect, shall be lifted and replaced at the contractor's expense.

All shrubs, herbaceous plants, whips and ransplants shall be watered in on planting with 20 litres per square metre. Trees shall be watered in with 25 litres per tree position. Water thereafter during the contract period at weekly intervals with 30 litres of

true to the species, variety and size as specified on the planting plan, to include 1.6m chestnut stake 600mm above ground and 1000mm below ground) and 1No. sackcloth tie with spacing device positioned 25mm maximum from the top of the post. 5. Turf to be of cultivated grade such as Rowlawn

Proposed large feathered or standard trees to be

"Medallion", or other of similar quality and source, approved by the landscape architect. The contractor shall replace at once any turf rejected by the landscape architect at his own cost. 6.Self clinging climbing shrubs or wall shrubs, with "S" drawn after the climber name, shall be trained to the

wall/fence with heavy duty, plastic coated garden wire. Training wires shall be attached vertically to the wall/fence by means of 125mm long stainless steel eye screw fittings. Position 1No. at 250mm from ground, and 1No. 250mm from top of the wall/fence, and string the wire tightly between the fixings. Train the climber to the wire with plastic coated garden wire Twining varieties of climber, with "T" drawn after the climber's name (in specially prepared pits or general shrub beds) shall be trained to walls/ fences by

mounting ready-made trellis panels 1.8 x 1.8m generally (but 1.8 x 0.6m for corners or where space is restricted). Include for adapting any panels for locations where walls or fences are lower than 1.8m. Fix trellis panels to the walls/ fences using non rusting screws 125mm long (to be approved), incorporating 50mm cube wood spacing blocks to ensure that the panel is mounted sufficiently far from the wall/ fence to allow twining of stems. Ensure that all timber is pressure impregnated with a non phyto-toxic preservative and then painted with a dark brown non phyto-toxix preservative wood stain such as Sadolin 'Classic" walnut or similar and approved. Ensure that the trellis is not in contact with the ground. Train the climbing shrub to the trellis with plastic coated garden

Climbers specified outside proposed shrub beds shall have specially prepared climber pits. Climber pits shall be 400mm x 400mm and 600mm deep (minimum size), and be backfilled with topsoil (from site - unless otherwise agreed). Ensure the base of the pit is thoroughly broken up and free draining before back filling with topsoil. Ensure no damage to foundations and services, and make good all structures and surfaces disturbed. Fertilise with 50g of Hortibase CRF (16-8-12) slow release fertilizer. Water with 15 litres of water per climber pit.

 When specified by the additional specification notes on this plan, supply and spread suitable biodegradeable sheet mulch over planting beds, previously, cultivated, graded and fertilized topsoil before planting, and peg down at a minimum of 500mm centres, (300mm at edges) and beds less

13m HEDGE TYPE 16

12No. Euo Jea @ 3/m

Following planting supply and spread evenly Wood Chip to a depth of 50mm, (75mm if no sheet mulch specified), over all planted areas. Finished mulch levels shall be no higher than 15mm below pavement or grass levels to avoid any spillage onto pavements or lawns. N.B. no substitution of mulch type will be acceptable. It is essential to have a no-fines, large particled, brown wood chip to reduce weed growth, reduce wind blow and prevent rapid

to the following codes:surfaces) - BS 4428:1989. 2012 and BS 6549:1999. BS 3998:2010 recommendations for tree works) unless Standard Conditions of Contract and Specifications of Tree Works 1996. C) Nursery stock in accordance with latest horticultural trade association nursery stock specification entitled "National Plant Specification

Plants shall conform to: -BS 8545 : 2014 Trees from Nursery to Independence in the Landscape -BS 3936-1: 1992 Nursery Stock - Specification for

-BS 3936-4: 2007 Nursery stock-Specification for forest trees. -BS 3936-9: 1998 Nursery stock- Specification forbulbs, corms and tubers. -BS 3936-10: 1990 Nursery stock- Specification for ground cover shrubs. -CPSE-Committee for Plant Establishment, Handling and establishing landscape plants 1996, Part 3, paragraphs 6.2 to 6.6. D) Glossary for Landscape Works BS 4428 :1989

an officia seed Testing Station Certificate of germination, purity and composition. G) Topsoil - BS 3882: 2015 H) Pesticides: Control of Pesticides Regulations 1997; The Health and Safety at Work Act 1974; the COSHH Regulation 2003, the product COSHH sheet Water Supply (Water Quality.) Regulations

GENERAL NOTES FOR THE DEVELOPER.

Figure 2 of BS 5837:2012 (The BS).

(Heras or similar) panels will be securely fixed on to framework with wire or scaffold clamps. Tubes will be driven into the ground to a minimum depth of Supporting struts will be fixed to the inside of the barrier to ensure maximum rigidity.

 Soil levels: soil levels for shrub beds and grass areas should have any compacted subgrade thoroughly broken up by machine before instructing the ground worker to spread topsoil or

and the plants and turf will die.

following minimum depths:- Shrub beds: 450mm. Grass areas 150mm, allow for excavation of 415mm of the subgrade for shrub beds to leave beds 65mm below finished pavement or grass areas in order to receive sheet and bark mulch, (90mm below where sheet mulch is not to be used). Tree pits will be dug by the landscape areas flush with any areas of paving and after than 10mm below paved areas to allow for turf. For areas to be grass seeded, the soil level shall be flush with any finished paved surfaces after settlement (or to a maximum of 5mm below) to allow for rain water to drain onto soft surfaces. Settlement shall be no greater than the tolerances given or problems will be encountered with mowing (the blades in danger of touching concrete edgings) or where soil is proud of pavements, then

 Hard works, unless otherwise agreed, shall be carried out by the developer or main contractor, and all materials and workmanship shall be in accordance with the construction details and the

2. All paths and edgings shall be set out properly to lines and radii, with all curves scribed on the

to the complete satisfaction of the Landscape NOT TO SCALE Architect. The decorating contractor shall prepare the galvanized surface by washing with detergent and water and scrubbing with a scouring pad until all dirt, grease, white rust & sulphates have been removed & then allowed to dry thoroughly. Supply and paint 'Icosit 6630' from Sika Ltd (tel. 01707 374444) applied with a turkhead brush strictly in Apply 2No. coats of paint with a dry film thickness any event above the current dew point be stripped off, re-prepared and applied entirely

at the decorating contractors own cost. 5. All wood work to use ACQ water based wood preservative applied by vacuum pressure by Permawood or other similar and approved company. The timber shall then be stained with 3No. coats of Sadolin 'Classic,' colour 'Walnut' strictly in accordance with the manufacturers instructions, COSHH Regulations 2003 and

SENERAL NOTES L DIMENSIONS IN MILLIMETRES -DO NOT SCALE OFF THIS DRAWING ALL DIMENSIONS TO BE CHECKED ON SITE

)JAMES BLAKE ASSOCIATES LTD 2020

39No. Euo Jea @ 3/m

AREA TO BE SEEDED

No. Euo Jea @ 3/m

than 1m wide. Pegging this densely is essential to prevent flaps of material becoming exposed. Refer to the specification for biodegradable sheet mulch

1. All workmanship and materials shall conform A) General landscape operations (excluding hard B) Trees in relation to construction- BS 5837: otherwise specified. Arboricultural Association -

trees and shrubs. -BS 3936-2: 1990 Nursery Stock- Specification for roses + AMD 6628.

E) Turf - BS 3969:1998- recommendations for turf for general purposes F) Seeding - EEC Regulations 1974. Use blue labelled certified varieties to EC purity and germination regulations. When requested, submit

amended 2000; Control of Pollution Act 1974; Hedgerow ACT 1997; Wildlife and Countryside Act 1981; Countryside and Rights of way Act 2000.

1. Any existing trees to be retained, are the responsibility of the main contractor on site who o Gol shall take all necessary protective measures set out in BS 5837:2012 to ensure no damage to stems or roots, to prevent compaction from vehicles or storage of materials, contamination of soil from spilages, scorching from fires and instability or stress from changes of soil level. The landscape contractor is however responsible for ensuring that neither plant, materials or labour are cause of any damage to existing trees, and like the employer, the landscape contractor shall replace at once any tree damaged on site, supplying and planting a tree of the same species and size, at his own cost. Protection barriers will comprise a scaffold framework in accordance with The framework will consist of vertical and horizontal scaffolds with vertical tubes spaced at no more than

intervals and driven into the ground. Weld mesh

AREA TO BE SEEDED

DRAWING LOCATION PLAN

the beds will become waterlogged in wet weather

2. Top soil spread from on site should be to the contractor. Top soil shall be spread for grass settlement, the soil level should be no greater

Existing topsoil and imported soil shall conform to BS 3882:2007, and be free from compaction, concrete, wire, roots, debris, oil, cement and

ground using pointed pegs and string or site marker paint, achieving flowing natural arcs. Setting out shall be agreed with the landscape

Hard surfaces shall be constructed after suitable base courses have been laid, taking full account of local site conditions, soft spots and substrate. The indicative depths of base courses are minimum depths assuming suitable substrate 4. All metalwork shall be finished hot dipped

galvanized in accordance with BS EN ISO1460. The galvanizer shall be responsible for the thorough removal of all galvanizing smuts (fettling) accordance with the manufacturers instructions COSHH regulations and the product COSHH sheet. of 100 microns per coat. Apply paint only when galvanized surface is thoroughly dry at temperatures above five degrees celsius and in temperature. Paint work will be subject to inspection by experts and if found wanting, shall

product COSHH sheet.

BIODEGRADABLE SHEET, MULCH NOT TO SCALE PHASE 2B DEVELOPMENT

9.58m2 BULB PLANTING MIX

INSET DETAIL 1: SHRUB BED WITH COURSE

Hummy

ground preparation as specified within the measured works schedule, ensuring finished soil levels are 55mm below adjacent pavement or

minimum of 50mm). To be laid by burying 200mm flap of material at the extreme edges of the shrub area; and folding over itself (refer to

inset on sheet mulch specification). Tuck in sheet on the opposite side of the proposed shrub area and fasten close to tucked in part with

Suitable biodegradable sheet mulch such as Hy-tex 'Eggtex Mulchmat' to be unrolled and placed in overlapping rows (overlap to be a

Suitable pegs hammered in at 500mm centres to secure sheeting. Increase frequency to 300mm centres at edges to secure sheet mulch

5 "Coarse graded free-of-fines large wood chip mulch" to be darkened from aging (3-6 months minimum) available from CPA Horticulture Type 'Rustic Mulch, Tel: (01994) 231121. Mulch to cover all of biodegradable fabric to a min depth of 50mm once all plants are planted.

N.B. (A) Do not use biodegradable sheet mulch on slopes greater than 1:3 without the use of gravel boards at 1 - 1,5m centres along the

(B) For gravel/shingle areas utilise a non-biodegradable polypropylene woven fabric such as "Covertex" from Hy-tex U.K. Ltd. tel: (01233) 720097. Cover the fabric all over with 40mm of clean, washed, cream / buff coloured gravel, 20mm gravel, unless

WOOD CHIP MULCH OVER SUITABLE

Existing topsoil to be rotovated to a depth of 400mm ensuring that the ground is completely.

Supply and pit plant shrubs through sheeting. Refer to pit planting through sheet mulch specification.

grass surfaces. If soil is dry, water liberally, prior to laying sheet mulch.

Ensure finished levels are 15mm below adjacent turf or hard surfaces.

otherwise stated in the key.

NOTES

ISET:- LAYING SHEET MULCH FOR PLANTED AREAS

ALL DIMENSIONS IN MILLEMETRES.

DO NOT SCALE OFF THIS DRAWING.

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INSURE BASE AND SIDES OF SHRUB BEDS ARE

approximately 300mm - 500mm depending on the size of the shrub.

PLANTING THROUGH SHEET MULCH SPECIFICATION

0mm depth and 300mm radius of stem, for plants specified in 10L containers

it "+" shape in to the fabric with scissors or sharp knife for each plant position. Each cut to be

back the fabric using stones etc and excavate pits of appropriate size, for example:-

0mm depth and 250mm radius of stem, for plants specified in 3L or smaller containers.

n and replace flaps of fabric tightly around base of plant stem, ensure there is no soil wha

ter plants with 20L/plant for 10L stock and 10L/plant for 3L or smaller stock using a fine spray

Spread "coarse graded free-of-fines large wood chip mulch" 50mm deep. Finished surface levels

kfill with imported or existing topsoil mixed with Vitax "Q4 HN" fertiliser to suppliers

WELL BROKEN UP AND FREE-DRA

re pit sides / base are well broken up.

nstructions and 25L non peat compost per m2.

nt so the nursery mark is flush with the ground

CROSS FALL 1.60 EDGING BY DEVELOPER

GENERAL NOTES:

SCHEDULE OF PLANTS

QTY CODE PLANT NAME STOCK SPACING SHC DFB MIN HEIGHT/SPREAD 11No. Abe Kal Abelia x grandiflora "Kaleidoscope" C.G. 5L 3/m2 B 300-400 x 300-400mm 16No. Auc Var Aucuba japonica "Variegata" C.G. 10L 3/m2 C 600-800 x 600-800mm 12No. Ber Pur Bergenia cordifolia "Purpurea" C.G. 5L 4/m2 - 100-200 x 100-200mm 37No. Cho Azt Choisya ternata "Aztec Pearl" C.G. 10L 3/m2 C 400-600 x 400-600mm 8No. Cho Gol Choisya dewitteana "Aztec Gold" C.G. 10L 3/m2 C 400-600 x 400-600mm 10No. Cho Sun Choisya ternata "Sundance" C.G. 10L 3/m2 C 400-600 x 400-600mm C.G. 5L 4/m2 B 300-400 x 300-400mm 15No. Cis Dec Cistus x dansereaui "Decumbens" C.G. 5L 3/m2 C 400-600 x 400-600mm 33No. Euo Aur Euonymus japonicus "Ovatus Aureus" 13No. Euo Eme Euonymus fortunei "Emerald Gaiety" C.G. 3L 5/m2 A 200-300 x 200-300mm C.G. 3L 5/m2 A 300-400 x 300-400mm 91No. Euo Gol Euonymus fortunei "Emerald 'n' Gold" 22No. Ger War Geranium x oxonianum "Wargrave Pink" C.G. 3L 5/m2 - 100-200 x 100-200mm 21No. Heb Met Hebe "Mette" C.G. 5L 4/m2 B 300-400 x 300-400mm 46No. Heb rak Hebe rakaiensis C.G. 5L 4/m2 A 300-400 x 300-400mm 43No. Hyp Hid Hypericum "Hidcote" C.G. 5L 3/m2 C 600-800 x 600-800mm C.G. 3L 3/m2 B 300-400 x 300-400mm 3No. Lon pil Lonicera pileata 9No. Nan Lem Nandina domestica "Lemlim" C.G. 5L 3/m2 B 300-400 x 300-400mm 3No. Pru Ott Prunus laurocerasus "Otto Luyken" C.G. 5L 3/m2 B 400-600 x 400-600mm 15No. Spi Gol Spirea japonica "Goldflame" C.G. 5L 3/m2 B 300-400 x 300-400mm 22No. Spi Ogo Spirea thunbergii "Ogon" C.G. 5L 3/m2 B 300-400 x 300-400mm 19No. Vib dav Vibumum davidii C.G. 5L 3/m2 B 300-400 x 300-400mm

GRASSES AND SEDGES

QTY CODE PLANT NAME STOCK SPACING 3No. Car Eve Carex oshimensis "Evergold" C.G. 3L 5/m2 6No. Car Iri Carex morrowii "Irish Green" C.G. 3L 5/m2

SPECIMENS PLANTED IN BEDS, GRASS OR GRAVEL

QTY CODE PLANT NAME STOCK C.G. 10L 1No. CHO AZT Choisya ternata "Aztec Pearl" C.G. 10L D 1.5 1No. HYD QUE Hydrangea quercifolia 4No. PHO JES Phormium tenax "Jester" C.G. 10L

BULB PLANTING MIXES

QTY % PLANT NAME STOCK SPACING 35m2 Bulb planting mix A 70No. 10% Crocus "Dutch Yellow" 70No. 10% Galanthus nivalis bulb 20/m2 140No. 20% Narcissus "Panache" bulb 20/m2 bulb 20/m2 350No. 50% Hyacinthoides non-scripta bulb 20/m2 70No. 10% Leucojum vernum

FEATHERED TREES

QTY CODE PLANT NAME STOCK SIZE DFB MAX Ht WD 2No. Ace cam Acer campestre

STANDARD TREES

QTY CODE PLANT NAME STOCK SIZE DFB MAX Ht WD O.G. STD 10-12cm 6m 8m M 4No. ACE STR Acer campestre "Streetwise" 5No. BET FAS Betula pendula "Fastigiata Joes" C.G. 15L STD 8-10cm 3m 5m L C.G. 25L STD 8-10cm 7m 14m 4No. BET PEN Betula pendula 5No. CAR FRA Carpinus betulus "Frans Fontaine" O.G. STD 8-10cm 9m 16m L O.G. STD 8-10cm 5m 10m L 1No. CAR LUC Carpinus betulus "Lucas" 3No. PYR CHA Pyrus calleryana "Chanticleer" O.G. STD 8-10cm 6m 8m M

ORNAMENTAL HEDGE PLANTING

QTY CODE PLANT NAME STOCK SPACING SHC DFB 18m Hedge type 08 Single row C.G. 3L 3/m C 54No. Euo Aur Euonymus japonicus "Aureopictus" 42m Hedge type 15 Single row 126No. Euo Bra Euonymus japonicus "Bravo" C.G. 3L 3/m B 63m Hedge type 16 Single row C.G. 3L 3/m B 189No. Euo Jea Euonymus japonicus "Jean Hugues"

NATIVE HEDGE MIXES

QTY % PLANT NAME STOCK SPACING SIZE DFB MAX HT W 181m Native hedge mix 04: double staggered row O.G. WHP 8/m 60-90cm 4m 8m L 290No. 20% Corylus avellana O.G. WHP 8/m 60-90cm 4m 5m M 218No. 15% Viburnum opulus 290No. 20% Prunus spinosa O.G. WHP 8/m 60-90cm 4m 4m M O.G. WHP 8/m 60-90cm 6m 12m 218No. 15% Malus sylvestris C.G. cell-grown 8/m 15-30cm 6m 12m M 218No. 15% Ilex aquifolium 218No. 15% Prunus avium O.G. WHP 8/m 60-90cm 4m 4m M

QTY % PLANT NAME STOCK SPACING SIZE DFB MAX HT 467m2 WOODLAND EDGE MIX (individual species to be planted in groups of 5-10 71No. 15% Crataegus monogyna O.G. WHP 1.5m centers 60-90cm 13m 10m H 71No. 15% Corylus avellana O.G. WHP 1.5m centers 60-90cm 4m 8m O.G. WHP 1.5m centers 60-90cm 4m 5m 48No. 10% Viburnum opulus 48No. 10% Prunus padus O.G. FTH 1.5m centers 125-150cm 9m 12m H 38No. 8% Ligustrum vulgare O.G. FTH 1.5m centers 125-150cm 3m 4m H C.G. cell-grown 15-30cm 1.5m centers 6m 12m M 48No. 10% llex aquifolium O.G. WHP 1.5m centers 60-90cm 0m 4m M 33No. 7% Euonymus europaeus O.G. WHP 1.5m centers 60-90cm 6m 12m 73No. 5% Malus sylvestris O.G. WHP 1.5m centers 60-90cm 2.25m 4m 48No. 10% Comus sanguineu O.G. WHP 1.5m centers 60-90cm 4mm 4m 24No. 5% Rosa canina O.G. WHP 1.5m centers 60-90cm 4m 4m 24No. 5% Rosa arvensis

AREA SEED MIX NAME 1483m2 SCC Highways verge mix (Suffolk County Council (SCC) Highway verge mix)

930m2 Wildflower meadow mix ("EM3" Special General Meadow Mix Mix by Emorsgate Seeds, refer to Measured Works schedule)

472m2 Area to be turfed ("Medallion" by Rowlawn Ltd, refer to Measured Works Schedule)

NOTES AND ABBREVIATIONS: R.B. = Root-balled stock

> C.G. = Container grown stock O.G. = Open ground stock, to be planted Nov 1st - March 1st

FTH = Feathered tree STD = Standard tree HVYSTD = Heavy Standard tree XHVYSTD = Extra Heavy standard tree

CON = Conifer Litre container DFB = "Distance from Buildings" based on minimum building foundation depths

Max Ht = "Maximum Height" of tree WD = "Water Demand" of tree SHC = Shrub Height Classification A = < 600mm mature height

BLE = Broad Leaf Evergreen

B = 600mm - 1.8m mature height C = > 1.8m mature height with low water demand and slow growth D = 1.8m - 3m mature height

E = 3m · 5m mature height F = >5m mature height Note: Plants not classified within the JBA SHC are NOT designated as shrubs. JBA understand shrubs to be defined as those plants of perennial habit with woody stems.

-Girth size is given for standard trees, otherwise all sizes refer to height. All sizes are the minimums acceptable. -Shrubs specified as 3 litre size shall be 400-600mm minimum height and spread and 2 litre stock shall be 300-400mm minimum height and spread. These heights and spreads in relation to pot size are just a guide and the "National Plant Specification" sizes will be accepted (but will be seen as the absolute minimum acceptable). Any shrub supplied which are smaller

than this will be rejected at once. Cornus varieties shall be twice transplanted and pruned to form bushy rounded plants. Leggy plants with few branches will be rejected, as will leggy plants which have been pruned hard. -Plants shall be completely hardened off, any plants which show signs of scorching after planting will be rejected.

REFER TO THE ACCOMPANYING MEASURED WORKS SCHEDULE DOCUMENT FOR MORE INFORMATION CHANGES TO SUPPLIERS/MANUFACTURERS ARE TO BE EQUAL AND APPROVED. SUBSTITUTIONS TO SHRUB/TREE VARIETIES ARE TO BE AGREED WITH LANDSCAPE ARCHITECT. DO NOT SCALE FROM THIS DRAWING ALL DIMENSIONS TO BE CHECKED ON SITE

(C) JAMES BLAKE ASSOCIATES 2020

SPECIFICATION FOR "COVERTEX" SHEET MULCH FOR PLANTED AREAS

TN25 7EK. Telephone (01233) 720097

Prepare and Cultivate imported or existing topsoil including fertilizers as necessary and water to field capacity. N.B. Ensure that the finished soil level is at least 65mm below adjacent pavement or grass levels to

"COVERTEX" is a woven black polypropelene fabric, 102g/m2 which is manufactured in Ultraviolet

resistant (black) form. This product is available from Hy-Tex U.K. Ltd., PO Box 97, Adlington, Ashford, Kent,

receive sheet and bark mulch. For sloping beds ensure that soil levels are 65mm below pavements or grass areas within 600mm of bed edges.

Place covertex sheet mulch over soil to be planted. Unroll materials, placing in overlapping rows (overlap to be no less than 50mm)

Bury 200mm flap of material at the extreme edges of the planting bed, or nail to concrete haunch

of path edging with masonary nails @ 1m centres

Secure material in position by hammering in 300mm metal pegs at 500mm centres. (300mm centres @ edges of beds) Metal hoops for pegging purposes.

SPECIFICATION

Place plants on beds in intended positions. Cut the fabric with sissors in "+" shape for each plant position, 400mm across.

Pit plant the plants, holding back the flaps of fabric, and carefully replace around the stem. Spread topsoil under sheet if friable. Remove all compacted topsoil clods from site, ensure no soil is left

on top of sheet. Once all the plants are planted, cover the fabric all over with 50mm of Melcourt Industries "Rustic Biomulch".

water if the soil is dry or in warm weather conditions, otherwise apply 25L/m2).

INSET:- LAYING SHEET MULCH FOR PLANTED AREAS PATH OR GRASS ADJACENT TO BED

Finally, water the bed thoroughly to field capacity. (Ensure that each plant receives 2 gallons of

CONTRACTOR NOTE DO NOT USE SHEET MULCH ON SLOPES GREATER THAN 1:3 WITHOUT THE USE OF GRAVEL BOARDS AT 1 - 1.5m CENTRES ALONG THE CONTOURS TO RETAIN THE BARK COVER.

KEY

SHRUB AND HERBACEOUS PLANTING, INCLUDING BIODEGRADABLE SHEET AND BARK MULCH (ACCORDING TO SPECIFICATION). SEE SPECIFICATION NOTES A1-2, B1-3, C1-3,

PROPOSED STANDARD TREE, INCLUDING DOUBLE STAKE AND

TIE. SEE SPECIFICATION NOTES A1, B2-3, B5, C1-4, D1-2 AND E1.

CULTIVATED TURF UNLESS OTHERWISE STATED ON PLAN. SEE

E1. SEE ALSO JAMES BLAKE ASSOCIATES PLAN AND SCHEDULE

HEDGE PLANTING, INCLUDING BIODEGRADABLE SHEET AND BARK MULCH (ACCORDING TO SPECIFICATION). REFER TO HEDGE SCHEDULES ON PLAN AND THE SCHEDULE OF QUANTITIES. SEE SPECIFICATION NOTES A1-2, B1-3, B5, C1-3,

WASHED, ROUNDED, BUFF COLOURED GRAVEL, 20mm GAUGE, 40mm DEPTH, FINISHED LEVEL 15mm BELOW ADJACENT SURFACES, LAID OVER 'COVERTEX' OVER LIGHTLY CONSOLIDATED SUBGRADE.

SPECIFICATION NOTES B4, C5 AND E1. BULB PLANTING IN MIXES, SPRING FLOWERING VARIETIES, REFER TO SCHEDULE FOR FURTHER INFORMATION.

SPECIMEN SHRUBS IN SHRUB BEDS OR PIT PLANTED IN GRASS/GRAVEL AREAS. SPECIMEN SHRUBS IN GRASS ARE MEASURED SEPARATELY IN SCHEDULE OF QUANTITIES. SEE SPECIFICATION NOTES A1, B1-3, C1-3, D1-2 AND E1. EXISTING TREE TO BE RETAINED, SEE GENERAL NOTE A1 AND

FOR ANY SURGERY WORKS. EXISTING VEGETATION GROUP OR HEDGE TO BE RETAINED, SEE GENERAL NOTE A1 AND E1. SEE ALSO JAMES BLAKE ASSOCIATES PLAN AND SCHEDULE FOR ANY SURGERY WORKS.

SCHWEGLER 1SP HOUSE SPARROW TERRACE, AVAILABLE FROM NHBS TEL: 01803 865913 OR SIMILAR AND APPROVED. INSTALLED UNDER EAVES FACING NORTH OR EAST, OR SIMILAR AND SCHWEGLER 16S SWIFT BOX. AVAILABLE FROM NHBS TEL: 01803

865913 OR SIMILAR AND APPROVED. INSTALLED UNDER EAVES FACING NORTH OR EAST, OR SIMILAR AND APPROVED. INTEGRATED ECO BAT BOX, AVAILABLE FROM NHBS TEL: 01803 865913 OR SIMILAR AND APPROVED. INSTALLED UNDER EAVES

FACING DIRECTION AS SHOWN ON PLAN, OR SIMILAR AND

PROPOSED HEDGEHOG 15 x 15 cm HOLES IN THE BASES OF FENCES AND WALLS OR GAPS UNDER GATES 0.6M HIGH KNEE RAIL AS PER ARCHITECTS PROPOSALS

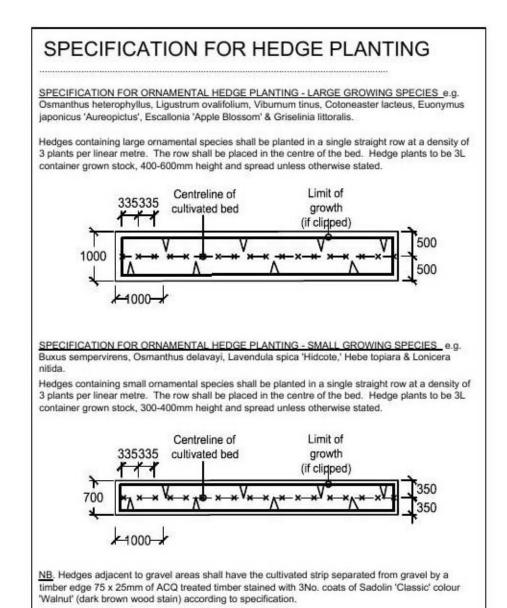
1.05M HIGH ESTATE RAILING AS PER ARCHITECTS PROPOSALS

NATIVE WHIP AND SHRUB PLANTING IN MIXES, INCLUDING BIODEGRADABLE SHEET AND BARK MULCH (ACCORDING TO SPECIFICATION. SEE SPECIFICATION NOTES A1-2, B1-3, C1-3,

WILDFLOWER MEADOW SEEDED AREA. REFER TO PLANT SCHEDULE FOR SPECIFICATION OF MIX.

AREA. REFER TO PLANT SCHEDULE FOR SPECIFICATION OF MIX.

MAINTENANCE ACCESS STRIP TO BE WILDFLOWER SEEDED



SEE SEPARATE EXTERNAL LAYOUT DRAWINGS (BY DEVELOPER) FOR SPECIFICATIONS AND ARRANGEMENT OF FENCING AND OTHER HARD WORKS

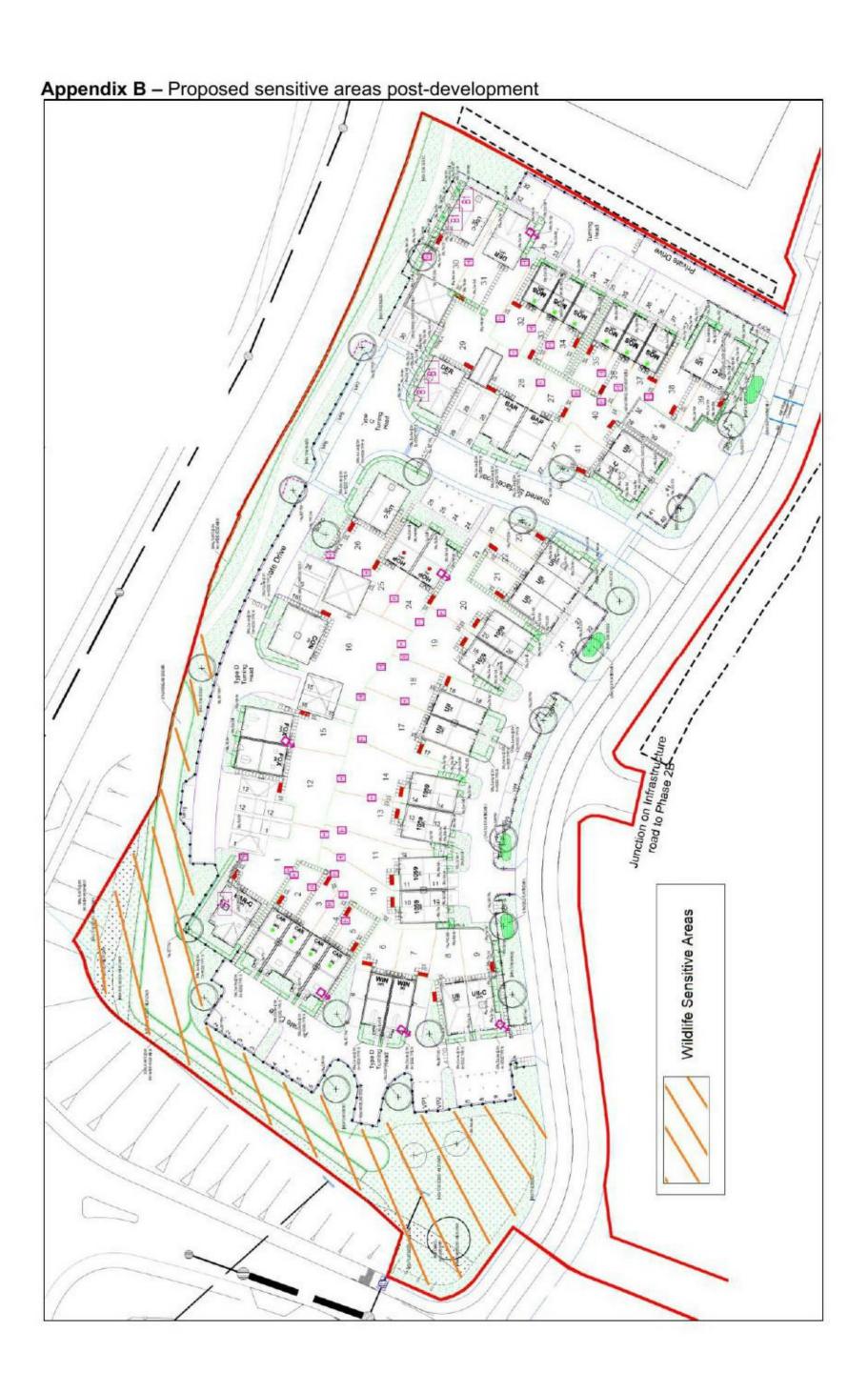
LANDSCAPE PROGRAMMING

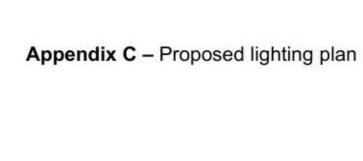
DUE TO NATIONAL PLANT SHORTAGE: PLANTS MAY TAKE UP TO 4 WEEKS TO BE DELIVERED. EARLY LEAD-IN FOR SOFT LANDSCAPE IS ESSENTIAL.

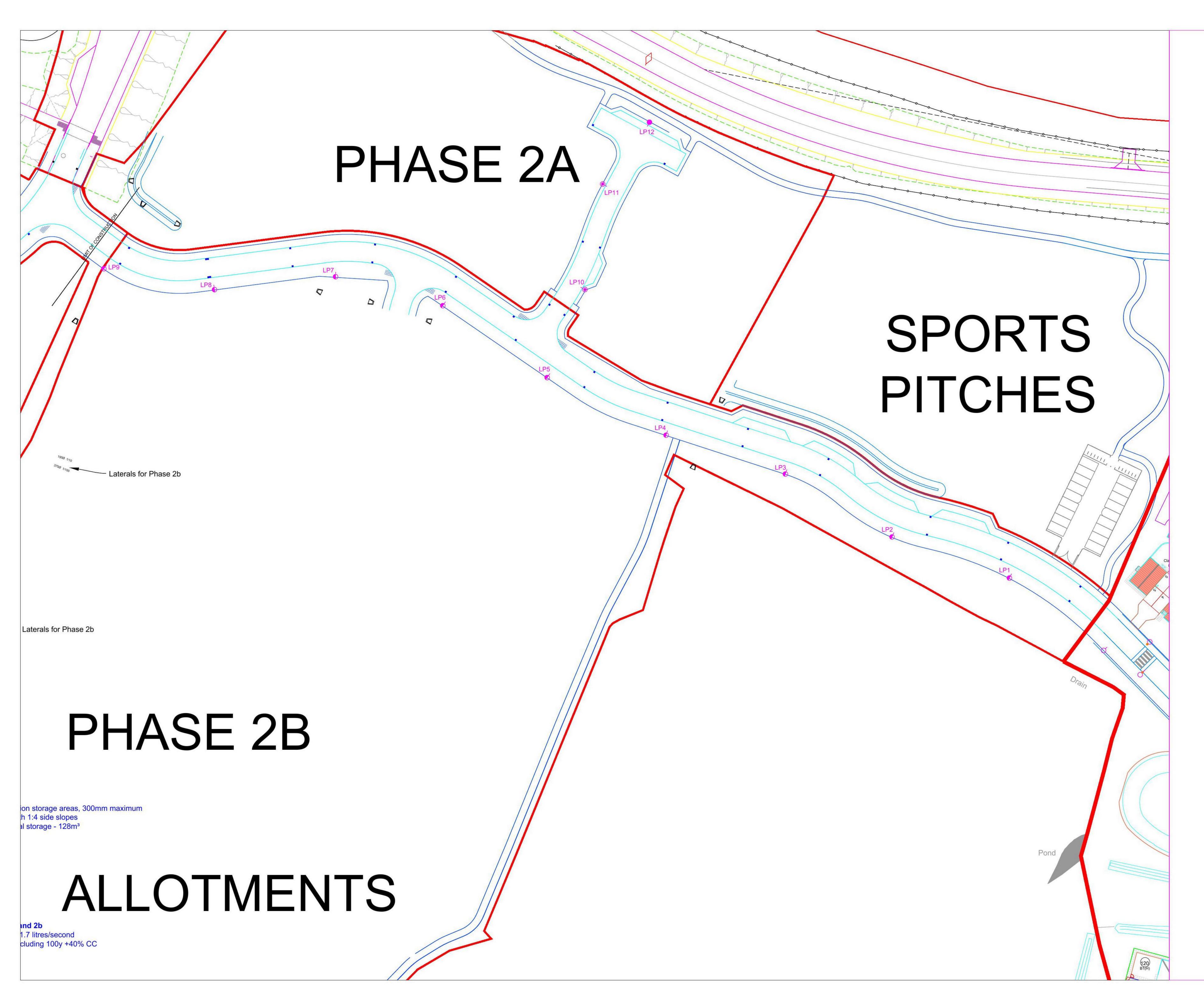
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02.10.2020 16.09.2020	CR KK	AMENDED TO NEW LAYOUT RECEIVED 29.09.20 ADDED DETAILED SOFT LANDSCAPE PROPOSALS FOR POS	
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JBA JBA 1:250@A1 SEPTEMBER 2020 JAMES BLAKE

ASSOCIAT 34-52 Out Westgate, Bury St Edmunds, Suffolk, IP33 3PA Tel: (01284) 335797 @jba-landmarc.com www.jba-landmarc.com ANDSCAPE ÁRCHITÉCTURE O ARBORICULTURE O ECOLOGY.







STREET LIGHTING LEGEND:-

STREET LIGHTING COLUMNS INSTALLED UNDER PREVIOUS PHASES

SUPPLY AND INSTALL NEW 6M GALVANISED TUBULAR STEEL LIGHTING COLUMN COMPLETE WITH GLASS FLAKE ROOT AND POST TOP MOUNTED THORN SMALL R2L2 5.69KLM COOL WHITE (5700K) LANTERN WITH EWS OPTIC SETTING (SET AT 5° TILT), COMPLETE WITH INTEGRAL DIMMABLE ELECTRONIC CONTROL GEAR AND FACTORY FITTED 7-PIN NEMA SOCKET, 1-PART PHOTOCELL #(TELENSA TELECELL UNIT) & CHARLES ENDIRECT L3 DOUBLE POLE ISOLATOR IN BASE OF COLUMN.

SUPPLY AND INSTALL NEW 6M GALVANISED TUBULAR STEEL LIGHTING
COLUMN COMPLETE WITH GLASS FLAKE ROOT AND 1NO. POST TOP
MOUNTED PHILIPS STELA 2 3010 (LONG) 2.2KIm (LOWEST ENERGY
OPTION) NEUTRAL WHITE (4000K) LED LANTERN WITH SRN OPTIC
SETTING, COMPLETE WITH PHILIPS DIMMABLE ELECTRONIC CONTROL
GEAR, FACTORY FITTED 7-PIN NEMA SOCKET, 1-PART PHOTOCELL
#(TELENSA TELECELL UNIT) AND CHARLES ENDIRECT L3 DOUBLE POLE
ISOLATOR IN BASE OF COLUMN.

SUPPLY AND INSTALL NEW 6M GALVANISED TUBULAR STEEL LIGHTING COLUMN COMPLETE WITH GLASS FLAKE ROOT AND 1NO. POST TOP MOUNTED PHILIPS STELA 2 3010 (LONG) 2.2KIm (LOWEST ENERGY OPTION) NEUTRAL WHITE (4000K) LED LANTERN WITH NRN OPTIC SETTING, COMPLETE WITH PHILIPS DIMMABLE ELECTRONIC CONTROL GEAR, FACTORY FITTED 7-PIN NEMA SOCKET, 1-PART PHOTOCELL #(TELENSA TELECELL UNIT) AND CHARLES ENDIRECT L3 DOUBLE POLE ISOLATOR IN BASE OF COLUMN.

NOTE: TELENSA TELECELLS AND SUFFOLK COUNTY COUNCIL IDENTIFICATION NUMBER PLATES ARE TO BE SUPPLIED AND INSTALLED ON ALL STREET LIGHTING LANTERNS AND ILLUMINATED SIGNS BY SCC'S INCUMBENT STREET LIGHTING CONTRACTOR, UPON ADOPTION, AT DEVELOPERS EXPENSE. (APPROXIMATELY £124 PER LIGHTING UNIT).

PLEASE ENSURE CORRECT LANTERNS ARE INSTALLED ON CORRECT COUMNS AS PER SPECIFICATION ABOVE.
A COPY OF THIS DRAWING IS TO BE ISSUED TO THE APPOINTED STREET LIGHTING CONTRACTOR AT ALL TIMES.

STREET LIGHTING NOTES:-

1) ALL NEW STREET LIGHTING COLUMNS ARE TO BE INSTALLED WITHIN THE REAR OF THE FOOTPATH OR WITHIN THE REAR OF THE SERVICE STRIP UNLESS OTHERWISE INDICATED. WHERE COLUMNS ARE TO BE INSTALLED WITHIN SERVICE STRIPS, IT IS STRONGLY ADVISED THAT THE POSITIONS OF THE PROPOSED LIGHTING COLUMNS ARE MARKED AT AN EARLY STAGE USING STAKES OR PIPING OF A SIMILAR DIAMETER TO THAT OF THE LIGHTING COLUMN BASE, SO AS TO ENSURE ADEQUATE SPACE FOR THE LIGHTING COLUMNS TO BE INSTALLED WHILST NOT BEING BLOCKED / IMPINGED ON BY OTHER SERVICES. INSTALLATION OF COLUMNS OUTSIDE OF SERVICES STRIPS WILL NOT BE ACCEPTED.

2) WHERE ROAD LIGHTING COLUMNS ARE TO BE INSTALLED IN VERGE THEY SHALL BE SET BACK FROM THE EDGE OF THE KERB / ROAD SURFACE BY 1.0M UNLESS OTHERWISE INDICATED.

3) WHERE STREET LIGHTING COLUMNS ARE TO BE INSTALLED WITHIN THE VERGE THEY SHALL BE FITTED WITH NEDAL (ALC) BLACK RUBBERISED 'ANTI-STRIMMER' COLLARS TO SCC SPECIFICATIONS.

HAVE DNO STATUTORY MAINS ELECTRICITY SUPPLIES UNLESS OTHERWISE INDICATED.

4) ALL NEW STREET LIGHTING COLUMNS AND ILLUMINATED SIGNS ARE TO

5) NO TREES ARE TO BE PLANTED WITH 5M OF ANY NEW STREET LIGHTING COLUMNS TO ENSURE BLOCKING EFFECT ON LIGHTING UNITS IS MINIMISED.

6) IF NO LIGHTING COLUMNS HAVE BEEN PLANTED WITHIN 18 MONTHS OF THIS LIGHTING DESIGN BEING APPROVED, THE DESIGN SHOULD BE RE-SUBMITTED TO SUFFOLK COUNTY COUNCIL'S STREET LIGHTING DEPARTMENT FOR RE-CHECKING / RE-APPROVAL.

7) NO CHANGES TO THE POSITIONS OR SPECIFICATION OF ANY LIGHTING EQUIPMENT SHOWN ON THIS APPROVED STREET LIGHTING DRAWING SHOULD BE MADE WITHOUT PRIOR AUTHORISATION FROM THE APPROVING SUFFOLK COUNTY COUNCIL OFFICER MR NEIL EVANS OR IN THE APPROVING OFFICERS ABSENCE, THE SUFFOLK COUNTY COUNCIL STREET LIGHTING MANAGER MR RICHARD WEBSTER.

APPROVED

BY SUFFOLK COUNTY

COUNCIL'S

STREET LIGHTING DEPARTMENT

SIGNED:- NEIL D. EVANS DATED:- 15th January 2021

DRAWING NUMBER: SL/0001/001