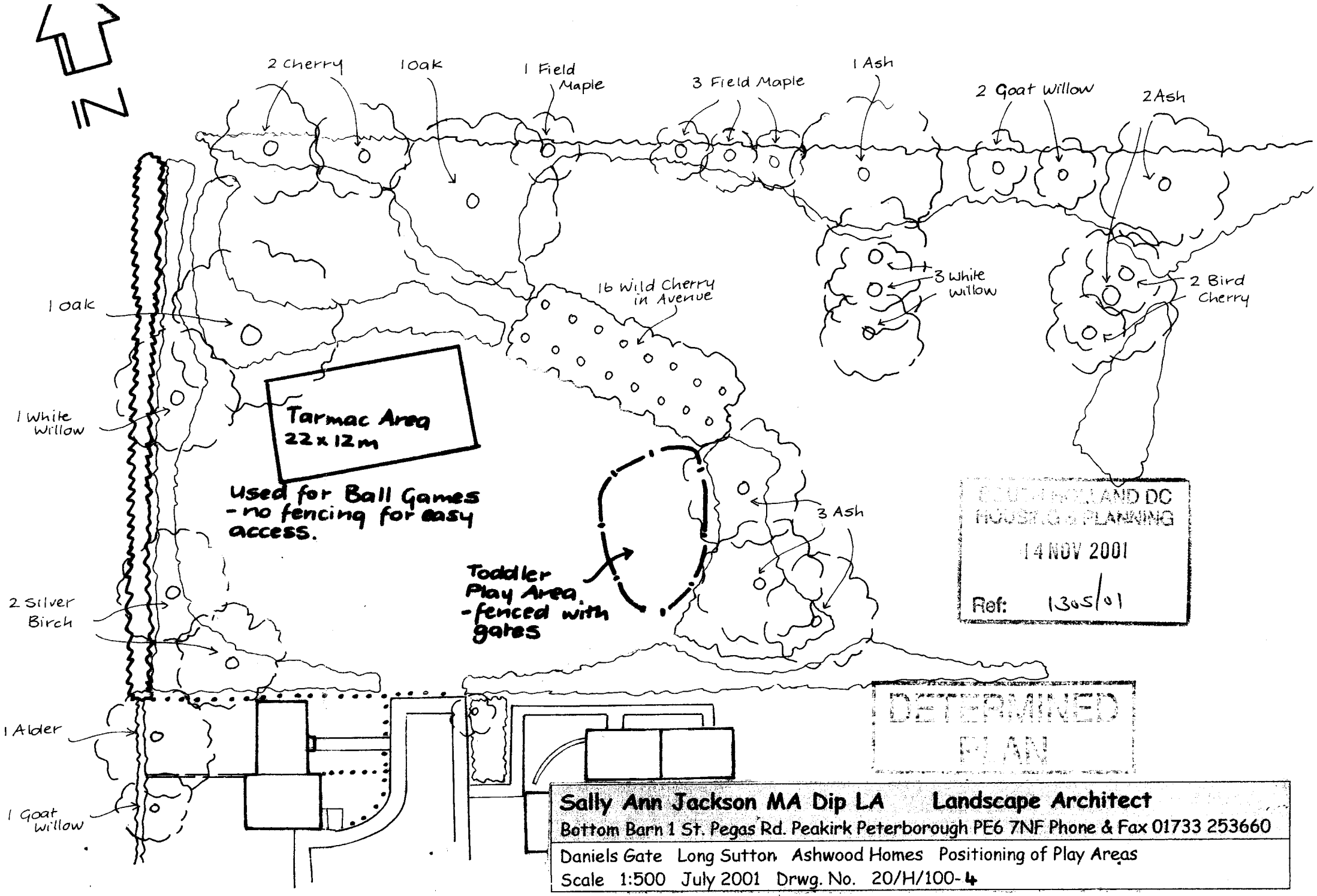


Sally Ann Jackson MA Dip LA Landscape Architect

Bottom Barn 1 St. Pegas Rd. Peakirk Peterborough PE6 7NF Phone & Fax 01733 253660

Daniels Gate Long Sutton Ashwood Homes Positioning of Play Areas

Scale 1:500 July 2001 Drwg. No. 20/H/100-4

STREET LIGHTING

5m MOUNTING HEIGHT BRACKETLESS COLUMN WITH 3 COAT MIO ROOT PROTECTION, SPIGOT TO SUIT PHILIPS RESIDIUM FGS224 POST TOP LANTERN

5m MOUNTING HEIGHT RAISE AND LOWER BRACKETLESS COLUMN WITH TYPE 3 COAT MIO ROOT PROTECTION, TO SUIT INDUSTRIA 42W PATHFINDER POST TOP LANTERN

101 TF SUB-MINATURE PE CELL: 1 PART 1:0.5 DIFFERENTIAL, 70LUX ON.

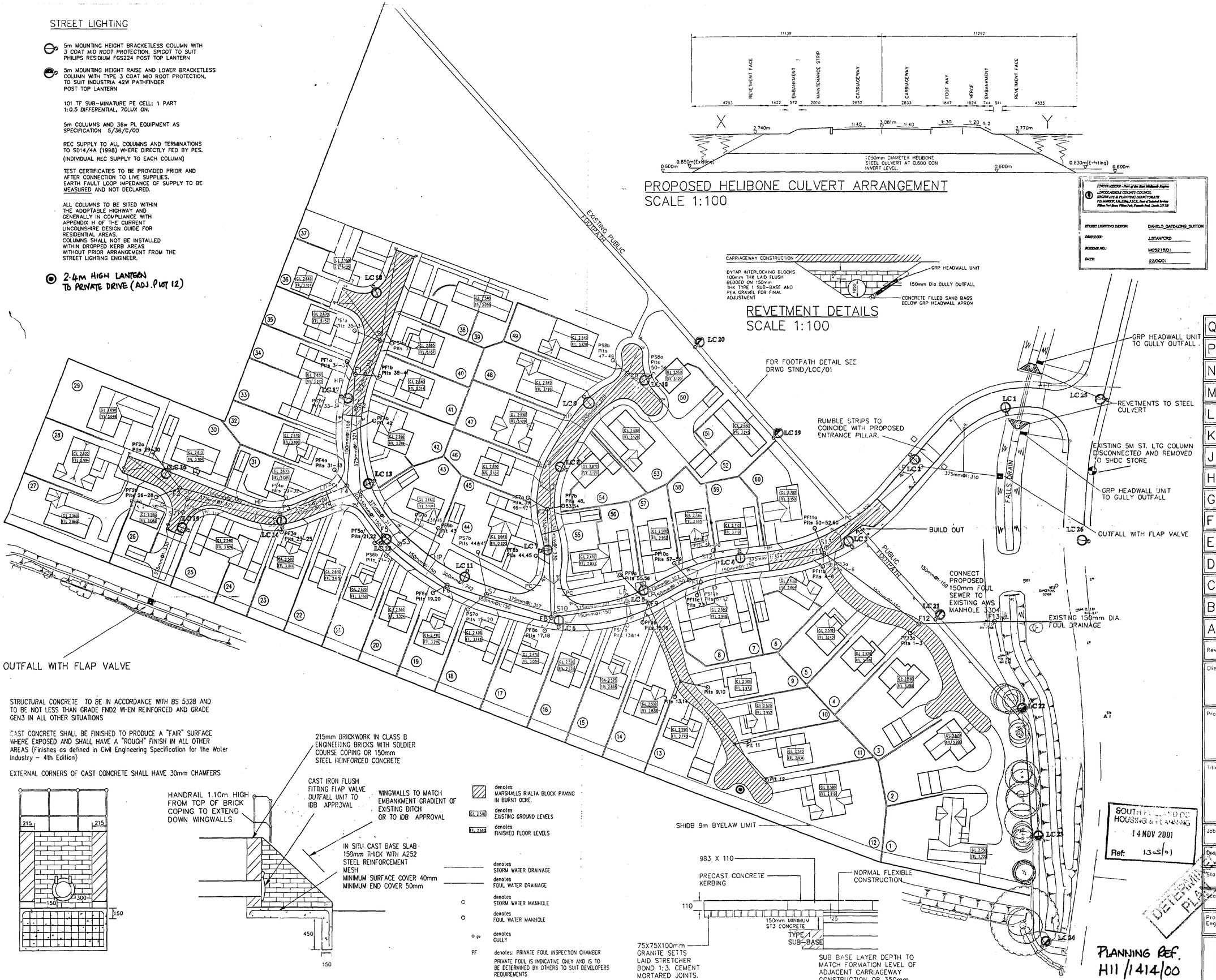
5m COLUMNS AND 36w PL EQUIPMENT AS SPECIFICATION 5/36/C/00

REC SUPPLY TO ALL COLUMNS AND TERMINATIONS TO SD14/4A (1998) WHERE DIRECTLY FED BY PES. (INDIVIDUAL REC SUPPLY TO EACH COLUMN)

TEST CERTIFICATES TO BE PROVIDED PRIOR AND AFTER CONNECTION TO LIVE SUPPLIES. EARTH FAULT LOOP IMPEDANCE OF SUPPLY TO BE MEASURED AND NOT DECLARED.

ALL COLUMNS TO BE SITED WITHIN THE ADOPTABLE HIGHWAY AND GENERALLY IN COMPLIANCE WITH APPENDIX H OF THE CURRENT LINCOLNSHIRE DESIGN GUIDE FOR RESIDENTIAL AREAS. COLUMNS SHALL NOT BE INSTALLED WITHIN DROPPED KERB AREAS WITHOUT PRIOR ARRANGEMENT FROM THE STREET LIGHTING ENGINEER.

2.4m HIGH LANTERN TO PRIVATE DRIVE (ADJ. PLOT 12)



PROPOSED HELIBONE CULVERT ARRANGEMENT
SCALE 1:100

REVETMENT DETAILS
SCALE 1:100

STREET LIGHTING DESIGN:	DANIELS GATE-LONG SUTTON
DESIGNED:	J.STANFORD
SCHEME NO.:	M0521901
DATE:	22/06/01

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NOTES

1. DO NOT SCALE THIS DRAWING.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
4. SUGGESTED FLOOR SLAB LEVEL SHOWN IN BOX.
5. ALL SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROCEDURES AND SPECIFICATIONS OF "SEWERS FOR ADOPTION" (4th EDITION MAY 1995).
6. BRANCH AND ANCILLIARY CONNECTIONS TO BE 150mm DIA LAID AT GRADIENTS BETWEEN 1:10 AND 1:80
7. GULLY CONNECTIONS TO BE 150mm DIA. LAID AT GRADIENTS OF AT LEAST 1:150 UNLESS OTHERWISE STATED.
8. ALL PIPEWORK TO BE LAID WITH LEVEL SOFFITS.
9. CONCRETE BEDDING SURROUND WILL BE PROVIDED TO ALL PIPEWORK WITH LESS THAN 1.2m OF COVER.
10. LIGHTING ASSEMBLIES LC 27 TO 32 SPACED APPROXIMATELY 34m UPTO PARK ROAD JUNCTION.
11. THIS STREET LIGHTING DESIGN HAS BEEN APPROVED ON THE CONDITION THAT THE DEVELOPER LIAISES WITH THE STREET LIGHTING ENGINEER (J STANFORD ON 01522 552922) OVER THE POSITIONS OF THE COLUMNS ON DANIELS GATE TO PARK ROAD WHICH ARE SUBJECT TO NRSWA AND TOPOGRAPHY.

Rev	Amendments	Rev'd By	Date
Q	Note 11 added.	SO	JUL 01
P	Street lighting design added.	SO	JUN 01
N	Handrails shown on headwall detail	W.	JUN 01
M	Prvt lutersis: plots re-located Pipe runs amended back to 375mm Dia	JB	JUN 01
L	GRP headwall unit detail amended	JB	MAY 01
K	Pipe runs S1 ~ S2, S7 ~ S10 and S8 ~ S9 amended to be 225mm pipes.	JB	MAY 01
J	Footway details, gully positions, block paving, HP & LP's shown, FFL's, LC 16 moved, private driveways, plots ammended	JPB	MAR 01
H	Pocketted Headwall detailes removed. Revetment and corrugated steel pipe details added. Duct outfall network added.	JPB	MAR 01
G	Pocketted Headwall details added.	JB	FEB 01
F	Connection PF6b added for plot 43	JB	FEB 01
E	Private drainage amended, as discussed with A.F. Ashwood Homes	JB	FEB 01
D	Site boundary amended, SHIDB 9m byelaw limit shown.	JB	FEB 01
C	Storm water outfall position modified. Storm network lifted to avoid surcharged outfall.	JB	JAN 01
B	Plan layout ammended	JB	NOV 00
A	Visibility splays added	JB	NOV 00

Client: ASHWOOD HOMES

Project: DANIEL'S GATE, LONG SUTTON

Title: ~~DRAINAGE LAYOUT~~ STREET LIGHTING

Job No: 32429

Drawing No: 32429/A1/03Q

Status: PRELIMINARY

Scale: 1:500 | Date: JUN 00

Project Engineer: JPB | Drawn By: JB | Checked By:

Waldeck Associates
Consulting Civil & Structural Engineers
Kesteven Business Centre
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NG34 7DT
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Fax. 01529 414844

SOUTH KESTEVEN HOUSING & PLANNING 14 NOV 2001 Ref: 13us/01

PLANNING REF. H11/1414/00

OUTFALL WITH FLAP VALVE

denotes MARSHALLS RIALTA BLOCK PAVING IN BURNT OCRE.
GL 2.510 denotes EXISTING GROUND LEVELS
FFL 2.660 denotes FINISHED FLOOR LEVELS
denotes STORM WATER DRAINAGE
denotes FOUL WATER DRAINAGE
denotes STORM WATER MANHOLE
denotes FOUL WATER MANHOLE
denotes GULLY
PF denotes: PRIVATE FOUL INSPECTION CHAMBER
PRIVATE FOUL IS INDICATIVE ONLY AND IS TO BE DETERMINED BY OTHERS TO SUIT DEVELOPERS REQUIREMENTS
PS denotes: PRIVATE SURFACE WATER INSPECTION CHAMBER
PRIVATE SURFACE WATER IS INDICATIVE ONLY AND IS TO BE DETERMINED BY OTHERS TO SUIT DEVELOPERS REQUIREMENTS

RUMBLE STRIP DETAIL
(Scale 1:5)

N

Area of native dense deciduous and evergreen planting to protect from the wind.

North boundary 1050m²

2 Prunus avium | 1 Quercus robur | 1 Acer campestre | 3 Acer campestre | 1 Fraxinus excelsior | 2 Salix caprea | 2 Fraxinus excelsior | 3 Acer campestre | 3 Salix cinerea | 1 Acer campestre | 3 Salix caprea | 1 Acer campestre

Grass pathway | Grass | Mown grass | 3 Salix alba | 2 Prunus padus | native dense deciduous and evergreen planting | Grass mound up to 2m in height, to protect from the wind. Mown grass with large decorative trees | 9m SHIDB maintenance strip

1 Quercus robur | 1 Salix alba | Area of native dense deciduous and evergreen planting 200m² | 16 Prunus avium | 38 Carpinus betulus | 2 Quercus robur | dense deciduous and evergreen planting

Area of native dense deciduous and evergreen planting to protect from the wind.

245m² West boundary

Tarmac area for Teenage Ball Games with c.l. fencing two sides | Open area of mown grass | 3 Fraxinus excelsior | Mown grass | Open area of mown grass | 1 Prunus padus | 1 Fraxinus excelsior

2 Betula pendula | Toddler Play Area fenced with gate | Grass | native planting | Grass pathway | 1 Alnus cordata | 1 Fraxinus excelsior | native planting

1 Alnus cordata | 1 Salix caprea | 2 Alnus cordata | 3 Salix alba | 1 Fraxinus excelsior | 3 Acer campestre | Grass | Sitting area with benches and hard surfacing. Attractive planted area with all year round interest, such as bulbs, flowers and autumn colour

Boundary fence with native type hedging 160m | 1 Ilex aquifolium | Taller planting | Low growing planting | Low growing | Corylus avellana | Taller planting | Grass pathway

2 Larix decidua | 2 Salix caprea | Low growing planting | Low growing | 2 Acer campestre | 2 Salix cinerea | 2 Prunus avium

Boundary fence with native type hedging | 2 Prunus avium | Low growing planting | Low growing planting | Low growing planting | Low growing decorative planting

2 Acer campestre | 1 Fraxinus excelsior | Low growing planting | Taller planting | Taller planting

1 Acer campestre | 1 Alnus cordata | 2 Acer campestre | 1 Alnus cordata | 1 Fraxinus excelsior | Taller planting | Low growing planting | Low growing planting | Taller planting | Taller planting | Taller planting

9m easement SHIDB maintenance strip

No access to Delamere Way

Daniels Gate | Daniels Crescent | St. Marys Gdns.

Native Type Planting at 2 per m²
1. Western Boundary
Total Area approx. **245m²** Total number Plants = **490**
2. Northern Boundary
Total Area approx. **1050m²** Total number of plants = **2100**
3. Rest of the Site
Total Area approx. **835 m²** Total number of plants = **1670**

Select plants for Areas 1 and 2 from the following list:

Botanical Name	Common Name	Ultimate Height	Native	Size required	%	Total Area 1	Total Area 2
Amelanchier lamarckii		up to 3m		30-60cm	10	49	210
Cornus sanguinea	Dogwood	2-5m	N	30-60cm	10	49	210
Corylus avellana	Hazel	3-5m	N	30-60cm	10	49	210
Crataegus monogyna	Hawthorn	to 15m	N	30-60cm	20	98	420
Ligustrum vulgare	Wild Privet	3-4m	N	30-60cm	5	24	105
Prunus spinosa	Blackthorn	1-4m	N	30-60cm	10	49	210
Rubus fruticosa	Bramble	to 2m	N	30-60cm	10	49	210
Salix purpurea	Purple willow	to 3m	N & from Asia	30-60cm	10	49	210
Sambucus nigra	Elder	1-10m	N	30-60cm	5	25	105
Viburnum lanata	Wayfaring tree	2-6m	N	30-60cm	10	49	210

Select plants for rest of areas from the following list:

Botanical Name	Common Name	Ultimate Height	Native	Size required	%	Total No.
Amelanchier lamarckii		up to 3m		30-60cm	20	334
Cornus sanguinea	Dogwood	2-5m	N	30-60cm	20	334
Corylus avellana	Hazel	3-5m	N	30-60cm	20	334
Salix purpurea	Purple willow	to 3m	N & Asia	30-60cm	20	334
Viburnum lanata	Wayfaring tree	2-6m	N	30-60cm	20	334

Large Trees suitable Housing areas. . Planted away from houses to avoid root damage
Total required... 111
All trees to be planted as Standards (8-10cm girth) and protected by spiral rabbit guards, apart from Oak which should be planted in shelters.

Tree	Distance apart	Ultimate Height	Colour	Native	Number Required
Acer campestre	5m	15m	Lt green	N	16
Alnus cordata	7m	20m+	Dk green		6
Betula pendula	14m	30m	Lt. green	N	2
Carpinus betulus	8m	30m	Dk green	N	38
Corylus avellana	4m	5-10m	Dk. green	N	4
Fraxinus excelsior	10m	45m	Dk. green	N	11
Ilex aquifolium	4m	25m	Ev. green	N	1
Larix decidua	8m	45m	Lt.green		2
Prunus avium	8m	25m	Lt. green	N	8
Prunus padus	7m	3-15m	Lt. green	N	1
Quercus robur	10m	35m	Lt. green	N	4
Salix alba	7m	25m	Lt.green/grey	N	7
Salix caprea	4m	5-10m	Green/white	N	8
Salix cinerea	4m	3m+	Green/white	N	3

Small Trees Suitable for Housing Areas
Total Number of Street Trees to be planted.....101

Botanical Name	Abbreviation.	Common Name	Ultimate Spread	Girth size required	Total No.
Crataegus laevigata 'Paul's Scarlet'	CrPS	Red Hawthorn	3m	10-12cm	16
Amelanchier arborea 'Robin Hill'	Am	Snowy Mesphilus	3m	10-12cm	15
Cotoneaster 'Cornubia'	Cot.		4m	12-14cm	16
Prunus cerasifera 'Nigra'	Pr. c N	Purple leaved plum	4m	10-12cm	14
Prunus 'Pandora'	PP	Flowering Cherry	4m	10-12cm	16
Sorbus Arnoldiana 'Schouten'	SS	Mountain Ash var.	5m	10-12cm	24

Hedgerow Planting
Random Mix approx. 6 plants in staggered rows per metre run

		Total number of plants
Western Boundary	160m	960

% mix	Plant	Size to be planted	West
60%	Crataegus monogyna	30-60cm	576
10%	Corylus avellana	30-60cm	96
10%	Ligustrum vulgare	30-60cm	96
10%	Prunus spinosa	30-60cm	96
10%	Rosa canina	30-60cm	96

Ornamental Planting Areas

	No. of areas	Total Area	Density of plants per m²	Plants suitable
Taller planting	15	516m²	1 2 1 or 2	Ceanothus, Cornus alba, Kerria Potentilla, Rosa Viburnum
Low growing and Smaller planting	46	648m²	6 4 3 or4 4 6 4	Ajuga Bergenia, Euonymus, Geranium Hebe Mahonia aquifolium Pulmonaria Salvia, Vinca
Attractive Garden type area	2	125m²	3 or 4 2 2 or 3 4 4 3 4 6	Hebe, Lavander Olearia Potentilla, Rosa, Senecio, Spiraea Achillea, Anemone japonica Centaurea, Crocosmia, Geranium Hemerocallis Lamium, Phlox, Stachys lanata Viola

DETAILED PLAN

AMENDED PLAN
Ref.

14 NOV 2001
E 414400

Sally Ann Jackson MA Dip LA Landscape Architect

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Fax: 01733 253660

Site Daniels Gate, Long Sutton
Client Ashwood Homes
Title Outline Proposals. Landscaping 2

Scale 1:500
Amend. Jan: 2001
Date November 2000
Drwg. No. 20/H/100-2