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Construction Chart 1 - Non Pervious roads up to 0.25 msa (Normal Flexible Construction)
Lincolnshire County Council Development Road Specification and Construction Document

Sub-grade (mm)	Sub-base (mm)		Surfacing (mm)		Total thickness required (mm)	
Design CBR	Without geotextile	With geotextile	Binder Course	Surface Course	Without geotextile	With geotextile
< 1½% & soft spots	Not suitable	710	130	40	Not suitable	880
1½%	Not suitable	440	130	40	Not suitable	610
2%	400	340	130	40	570	510
3%	310	300	130	40	480	470
4%	300	300	130	40	470	470
5%	300	300	130	40	470	470
6 - 15%	300	300	130	40	470	470
> 15%	300	300	130	40	470	470

Construction Chart 3 - Non pervious roads up to 0.25 msa (Block Paver Construction)
Lincolnshire County Council Development Road Specification and Construction Document

Sub-grade (mm)	Sub-base (mm)		Surfacing (mm)			Total thickness required (mm)	
Design CBR	Without geotextile	With geotextile	Binder Course	Laying Course	Block Paver	Without geotextile	With geotextile
< 1½% & soft spots	Not suitable	710	90	30	60	Not suitable	890
1½%	Not suitable	440	90	30	60	Not suitable	620
2%	400	340	90	30	60	580	520
3%	310	300	90	30	60	490	480
4%	270	270	90	30	60	450	450
5%	270	270	90	30	60	450	450
6 - 15%	270	270	90	30	60	450	450
> 15%	270	270	90	30	60	450	450

Main Site Layout

Scale - 1:250

In accordance with Lincolnshire County Council Development Road Specification and Construction document for Housing Development Roads carrying up to 0.25 m.s.a.

ADOPTED AREAS

Carriageway Construction - Standard Construction (refer to Chart 1)

- Surface course: 40mm - AC10 close surf 100/150 in accordance with BSEN13108 to clause 7.3. The Surface Course must be bonded to the Binder Course.
- Binder course: 130mm - AC20 dense bin 40/60 rec laid in a single layer to clause 9.1 or combination of layers not less than 50mm not greater than 100mm in accordance with BSEN13108 assuming kerbing laid prior to surfacing (if two stage construction - kerbing laid at a later stage is used) then initial binder course layer to be 70mm and Total Binder Course thickness becomes 130mm in accordance with clause 1.1.17.
- Sub Base: 310mm Granular sub base material Type 1 to Clause 8.1 of LCCDRS. Thickness derived from site CBR values (3% - see table Chart 1)
  CBR testing to be undertaken at 100m intervals on all road centrelines at formation level to verify the desi.

All pavement material within 450mm of finished external levels shall be non frost susceptible sub-base / capping, depth dependent upon CBR of sub-base.

All Made ground must be removed.

Footway Construction

Surface course: 25mm - AC6 dense surf 100/150 in accordance with BSEN13108 compacted to a void content within the range 2%-10%. To clause 9.4.
The Surface Course must be bonded to the Binder Course.

Binder course: 100mm - AC20 dense bin rec 100/150 in accordance with BSEN13108 to clause 9.1.

Sub Base: 100mm granular sub base material Type 1 to Clause 1.2 of LCCDRS Specification (3% CBR)

Vehicle crossing

Surface course: 25mm - AC6 dense surf 100/150 in accordance with BSEN13108 to clause 9.4.
The Surface Course must be bonded to the Binder Course.

Binder course: 100mm - AC20 dense bin rec 100/150 in accordance with BSEN13108 to clause 9.1.

Sub Base: 150mm min granular sub base material Type 1 to Clause 1.2 of LCCDRS (3% CBR)

Grass

100mm Top Soil and Seed

PRIVATE AREAS

Permeable Tarmac - Private Carriageway Construction
Shared Accessways and Private Driveways - Permeable Paving

35mm 6mm Permeable Tarmac (Ultidrive Porous (6mm) or similar approved)

65mm Binder Course - AC20 dense bin 40/60 rec in accordance with BSEN13108. punctured/cored at 750mm centres (75mmØ holes)

200mm Coarse graded aggregate type 4/20 to BS EN 13242:2002 for a soaked CBR minimum 5%. (200mm is a minimum, as depth may vary depending on drainage requirements.)

Impermeable geotextile e.g Charcon Permafilter or similar approved (300mm Lap minimum)

Geogrid with integral impermeable membrane (or similar) laid at formation level. (Where CBR's <1%)

Tactile Paving

For details on tactile paving, refer to drawing no. MA11102 / 605

REV	DATE	BY	DETAILS	CHK'D
C	09.12.20	JMcK	Carriageway specification updated Suplurflous lines removed from carrigeway	JMcK
B	02.12.20	JMcK	Footpath added to Fen Road Frontage	JMcK
A	24.10.19	CMN	Depth of stone reduced to permeable paving	JMcK

A0 AMENDMENTS

NOTES

TITLE: Pavement Materials Layout

PROJECT: The Paddocks, Holbeach Meadows, Spalding, Lincolnshire

CLIENT: ASHWOOD HOMES

DATE	CHECKED	APPROVED BY	SCALE	DRAWN	ENGINEER	DRAWING No:	DRAWING STATUS
27.09.19	JMcK	JMcK	1:250	ATF	JMcK	MA11102 / 602 C	PRELIMINARY

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