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GENERAL NOTES

Do not scale this drawing. If in any doubt ask.

This drawing is to be read in conjunction with all relevant engineers and specialists drawings and specifications.

All setting out is to be checked on site prior to any works commencing. Any discrepancies are to be reported to millward immediately.

All dimensions are shown in millimetres unless otherwise noted.
All levels are shown in metres unless otherwise noted.

The specification in all respects shall be in accordance with the current "Lincolnshire Development Road and Sustainable Drainage Design Guide" and "Development Road and Sustainable Drainage Specification and Construction" publications in force in the county at the time of construction

The Minimum Longitudinal fall for highways, without channel blocks shall be 1 in 150 , and with channel blocks 1 in 250 (see Clause 10.1)

In addition, ensure that the first section of any side road fall away from the road to which is is connecting. If general topography requires it to rise, the change in direction should take place after the first set of gullies. This is to ensure a 'false channel' with associated drainage problems is not created in the bellmouth of junctions.

General deterioration of the existing highway/footway/verges created through construction of the new |Section 38 Development will be reinstated to the current Development Road Specification at the developer's own cost at the agreement of the inspecting Highway Officer Prior to Construction

All signs and line marking are to be agreed with the Senior Highways Officer prior to construction

No Private surface water shall discharge onto the adoptable highway

No private, structural features shall overhang the adoptable highway

No private retaining walls exceeding 1.37m shall be within 3.66m of the highway boundary

Concrete edging to be installed for the length of the filter strip(s) between filter strip and private property to delineate between the two.

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 <1.5% CBR

Surface course: 40mm - AC10 close surf 70/100 or 100/150 in accordance with BSEN13108.

Binder course: 130mm - AC20 dense bin 40/60 rec laid as a combination of layers at 70mm then 60mm thickness in accordance with BSEN13108.

Sub Base: 410mm of 6F5 Capping Layer Granular Fill to clause 6.8 and 300mm of Type 1 sub-base. Granular sub base material Type 1 to Clause 803 of the Highway Agency Specification.

Geotextile layer to be provided to fold up the sides of the excavation (300mm lap min)

Tensar TriAX TXG Geogrid with integral geomembrane laid at formation level.

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

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

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

Verge / Filter Strip

Refer to detail on Millward Dwg No. MA11242/604-1

Tactile Paving / Pedestrian Crossing

EXISTING CARRIAGEWAY AREAS

Plane and replace surface course:

40mm - AC10 close surf 70/100 or 100/150 in accordance with BSEN13108 (plus regulating as required).

Surface & Binder Course:

Surface Course 40mm (AC10 close surf 70/100 or 100/150 in accordance with BSEN13108) plus Binder course 130mm (AC20 dense bin 40/60 rec in accordance with BSEN13108 plus regulating as required. The Surface Course must be bonded to the Binder Course.

Grass Verge

150mm Top Soil in accordance with Clause 6.2 of LCC specification

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)

Permeable geotextile e.g Charcon Permafilter or similar approved.

200mm coarse graded aggregate type 4/20 to BS EN 13242:2002 for a soaked CBR greater than 5%. For a soaked CBR value lower than 5% add the following thicknesses:- 4% 100mm, 3% 125mm, 2% 175mm and 1% 300mm.
Note: Stone depth may also be dictated by attenuation requirements. Refer to drainage layout for areas required for attenuation.

A geotextile is to be provided to fold up the sides of the excavation (300mm lap min).

Geogrid with integral impermeable membrane (or similar) laid at formation level where CBR is less than 2%.

Footpath construction extension outside red line boundary subject to third party landowner agreement (LCC to negotiate with third party landowner and if agreement is obtained developer will construct.

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

ACCESS ROAD DETAILS
Scale 1:250

REV	DATE	BY	DETAILS	CHK'D
A	02.12.20	JMcK	Footway route extended to western boundary. PROW shown with IDB requirements. Notes added regarding offsite footway link. Informal pedestrian link annotated to Park Lane. Tactile crossing over Sunnydale Close junction added	JMcK

A0 AMENDMENTS

NOTES

TITLE: Materials Layout

PROJECT: Sunnydale Close, Surfleet

CLIENT: ASHWOOD HOMES

DATE	CHECKED	APPROVED BY	SCALE	DRAWN	ENGINEER	DRAWING No:	DRAWING STATUS
March 2020	JMcK	JMcK	1:250@A0	BC	CMN	MA11242-601 A	PLANNING

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