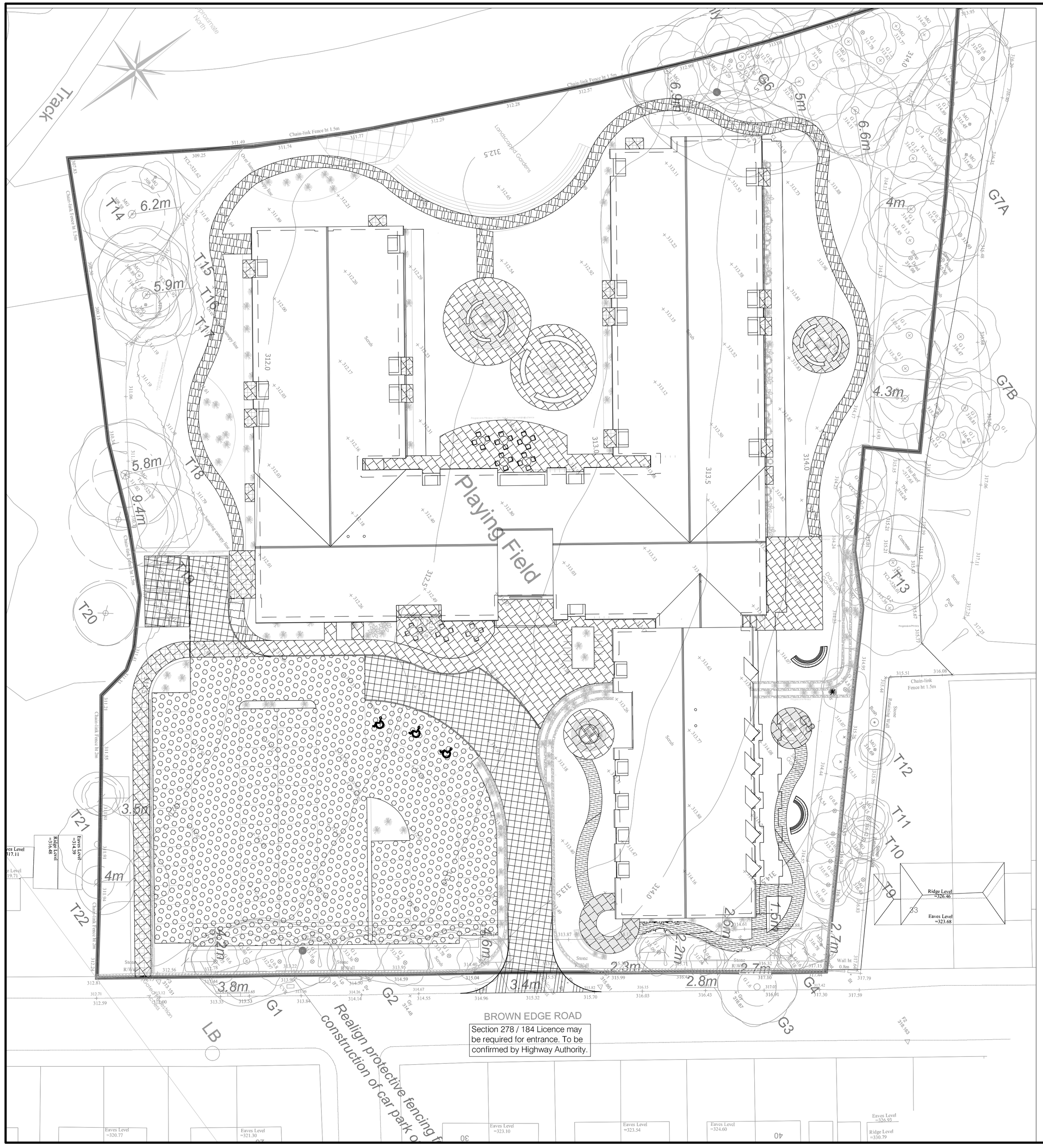

Key:

Asphalt Concrete Access Road (<5CV/Day)
- 30mm 0/10mm Stone Mastic Asphalt surface course (SMA-10 surf-40/60) in accordance with BS EN 13108-5:2006 & BS 594987:2007 (DfT SHW Clause 937)
- 100mm 0/20 nominal size dense graded macadam Binder Course (AC-20-dense bin-100/150) in accordance with BSEN 13108-1:2006 & BS 594987:2007 (DfT SHW Clause 901)
- DfT Type 1 Sub-base - see Table 2 for thickness based on CBR value
- Engineered Sub-grade

Block / Flag 450 x 450 Paving Slab Footway
- 50mm Block / Flag Paving Slab (To Architects specification)
- 50mm Sand laying course
- 100mm DfT Type 1 Sub-base
- Engineered Sub-grade

Where pavers cross vehicle areas they are to be suitable for HGV loading and turning

Asphalt Concrete Footway
- 20mm 0/6mm nominal size dense macadam Surface Course (AC-6-dense surf-100/150) in accordance with BSEN 13108-1:2006 & BS 594987:2007 (DfT SHW Clause 909) Refer to GNA drawing for colour
- 50mm 0/20mm nominal size open graded macadam Binder Course (AC-20-open bin-100/150) in accordance with BSEN 13108-1:2006 & BS 594987:2007 (DfT SHW Clause 901)
- 100mm DfT Type 1 Sub-base
- Engineered Sub-grade

Bituminous Road Construction Detail
- 40mm 0/10mm Close graded bitumen macadam surface course to be in accordance with BS4987 PT 1: CL 7.4 and D.O.T. S.H.W. CL 912
- 50mm 0/20 mm Dense bitumen macadam binder course to be in accordance with BS4987 PT 1 : CL 6.5 and D.O.T. S.H.W. CL 906.
- 110mm 0/32mm Dense bitumen macadam binder course to be in accordance with BS4987 PT 1 : CL 6.5 and D.O.T. S.H.W. CL 906.

Granular sub-base Type 1 and Capping (to be in accordance with D.O.T. S.H.W. CL 803. See Table MC4

Grasscrete Parking
Grasscrete to be suitable for HGV loading and turning

Bonded Gravel Footway
- Resin Bonded gravel - Fine or Medium Aggregate - to be specified by contractor - layed to manufacturer's specification
- 150mm Granular sub-base type 1 (to be accordance with D.O.T S.H.W. CL 803)

See table 2
-Engineered Sub-grade

Table 2

CBR Value	Min Thickness of Sub Base Required (mm) (consolidated in accordance with MCHW vol 1 Clause 801, table 8/7)		
	Sub Base Thickness	OR Sub Base with Capping	
		Sub Base	Capping
less than 2%	540 (Geotextile required)	150	600
2 - 3 %	390	150	350
3 - 4 %	290		
4 - 5 %	230		
5 - 6 %	180	Not Applicable	
6 - 7 %	140		
> 7 %	100		

Table MC4: Carriageway sub-base and capping thickness

CBR % [b]	Option A		Option B	
	Capping mm	Sub-base mm	Capping mm	Sub-base mm
Less than 2 [c]	600	150	600	150
2	450	150	450	150
3	350	150	-	300
4	300	150	-	275
5 to 15	250	150	-	225(see clause 4.68)
More than 15			-	150(see clause 4.68)

[a] The foundation design should not vary frequently along the road. You should select an appropriate value for each significant change in the subgrade properties.

[b] Where the equilibrium CBR falls between values in the above table, you should round down the value to the lower value.

[c] When the subgrade CBR is sufficiently below 2% that capping with sub-base is not sufficient to support the pavement, special measures will be required. You can find advice in DMRB 7.2.2 HD25/94.

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A1

0 10 20 30 40 50
Millimetres At Original Drawing Size

General Notes

1. DO NOT SCALE.
2. This drawing is to be read in conjunction with all other relevant drawings and details.
3. Should there be any conflict between the details indicated on this drawing and those indicated on other drawings the Engineer should be informed PRIOR to construction on site.
4. Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT for construction. Should the contractor commence site work prior to such approval being given, it is entirely at his own risk.
5. All dimensions are in millimetres unless otherwise stated.
6. The BSP Hazard Identification and Risk Assessment information for this project must be reviewed and understood by the contractor PRIOR to the commencement of any works on site.
7. Topographical survey information taken from Greenhatch Group drawing 14037_OGL Rev 1 (dated Jan 2010).

Rev.	Description	Date.	Drawn	Appr
B	External construction surfaces amended Bonded gravel details added	18/11 2013	GHB	CD
A	Revised to suit new propsed site layout. External hatch bounday amended	16/10 2013	GHB	

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Drawing Status
PRELIMINARY

Client
Keepmoat

Project Title
Derbyshire Extra Care
Brown Edge Road, Buxton

Drawing Title
External Constructions

Drawn By:	AA	Checked By:	Scale: 1:250
Project Engineer :	AG	Approved By:	Date: 19/07/2013

Drawing Number: 12461-230
Revision: B