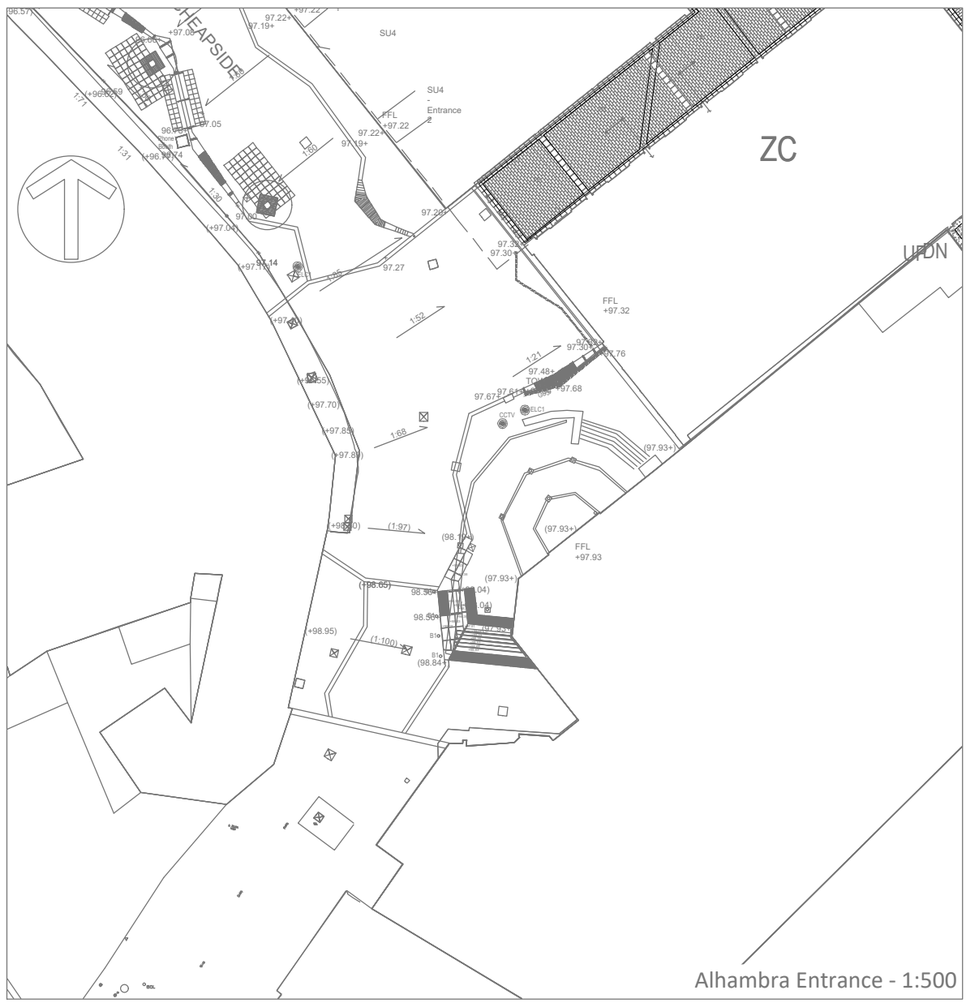
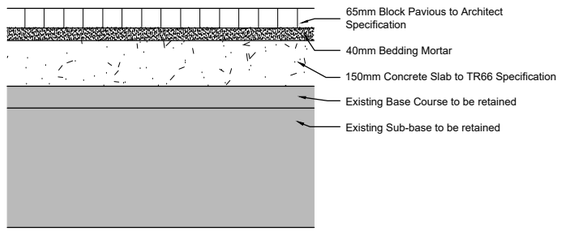
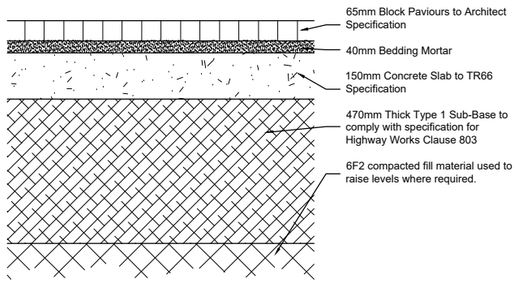




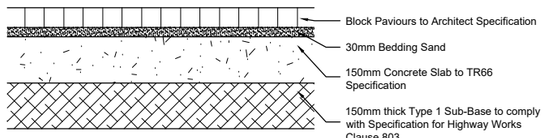
Carriageway Resurfacing Construction
- Existing Highway

Scale 1:20



Carriageway Construction
- New Highway

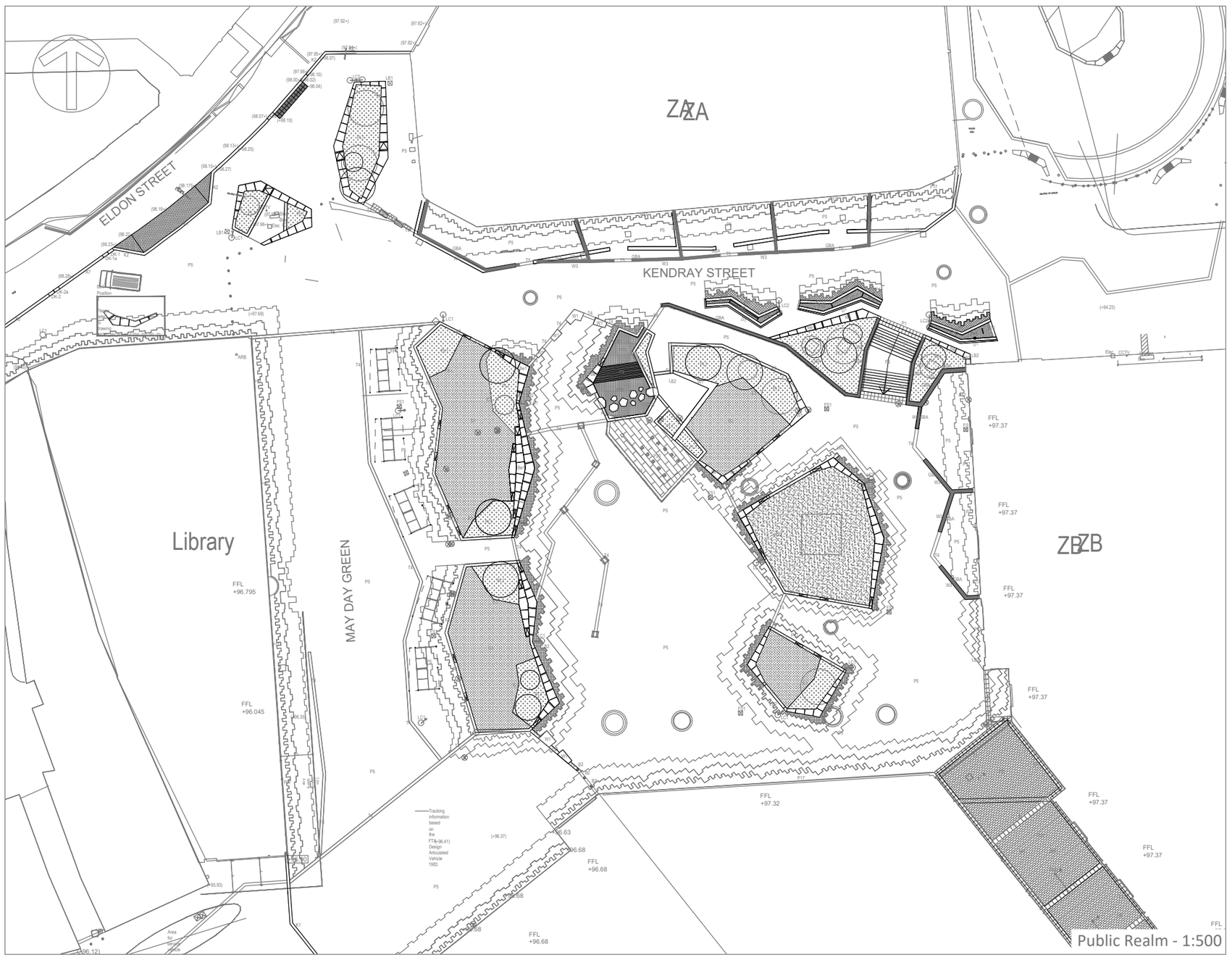
Scale 1:20



Footway Construction
- Existing Footway

Scale 1:20

All sub-base thicknesses to suit CBR table A requirements.





DESIGN REVIEW

Design review by:	**	Checked by:	**

Residual hazards:

Health, Safety & Environmental Notes

Notes:

1. All dimensions are in millimetres
2. Details of Pavement materials and layer thickness are shown on the proposed details.
3. Existing surface and binder courses to be saw cut and vertical faces painted with a HAPAS approved tack coated
4. All base/binder/regulating layers within the proposed carriageway construction should receive a bond coat applied in accordance with BS 594987:2015 cl.5.5 (tanker applied)
5. Exact locations of tie ins to be agreed with the supervisor
6. Where the "base width" is in a tapering section and is less than 750mm wide, then concrete may be used in lieu of base. Concrete to be ST5 (25 N/mm^2 at 28 days).
7. Amount of cut back to existing foundation to be agreed with the supervisor
8. Any capping and sub base layers should extend 500mm behind the kerb face and taper at a gradient between 1in1 and 1in2.
9. Any recycled type 1 sub-base material shall have a maximum permitted asphalt content of 75%.
10. All material within 450mm of the finished road surface shall be non-frost susceptible.
11. Skid resistance should be minimum 68 PSV on all approaches.

CBR Value of formation	Layer thickness
15% or greater	200mm sub base
greater than 10% less than 15%	250mm sub base laid in 2 layers (max single layer thickness 125mm)
greater than 5% less than 10%	250mm sub base plus 200mm capping
4%	225mm sub base plus 275mm capping
3%	325mm sub base plus 250mm capping
2.5%	350mm sub base plus 250mm capping

Soil Type	Plasticity Index	Equilibrium CBR%
Clay/Silt	50 or greater	less than 2
-	35-49	3
-	26-34	4
-	16-25	3
-	10-15	2
Silt	less than 10	less than 2
Silt	non plastic	less than 2
Poorly graded sand	-	7
Well graded sand	-	10
Poorly graded gravel	-	10
Well graded gravel	-	15

Equilibrium CBR values must be determined on site by the retrieval of samples and testing to include soil classification from particle size distribution (grading) and plasticity index (cohesive soils only) with reference to above table. At least two representative samples should be taken at each location to be agreed with the Highways site supervisor:

- One at Formation Level (proposed bituminous material layers plus 150mm sub-base) (assuming >15% CBR) - 400mm below FRL;
- One at Sub-Formation (proposed bituminous material layers plus 150mm sub-base plus 600mm capping) (assuming <2% CBR) - 1000mm below FRL.

Date	Revision	By	Chkd	Rev
17.02.21	Initial Issue	DM	WD	P1

ADEPT
CIVIL AND STRUCTURAL CONSULTING ENGINEERS
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Originating Office

Project
Glassworks, Barnsley

Title
Surface Finishes

Client
Henry Boot CONSTRUCTION

Scale @ A2	Drawn	Checked	Date
1:200 Layout Only	DM	WD	16.02.21

Suitability	Purpose
S2	Preliminary

UPRN	Originator	Zone	Level	Type	Role	Class	Drg. No.	Rev.
BGW2	ACE	XX	ZZ	DR	C	G700	1030	P1