Stage 3 - External Works

The site shall be regraded to form a suitable development platform in accordance with the proposed finished levels, with a cut-and-fill approach adopted to accommodate existing topography.

All external areas including access roads, parking, footpaths and hardstanding shall be formed to falls directing surface water towards the drainage system.

Two retaining walls are proposed to accommodate level changes:

Eastern boundary: masonry (brick) retaining wall up to 1.0m retained height

Western boundary (adjacent existing road): masonry (brick) retaining wall up to 1.5m retained height

Retaining walls shall be designed for earth pressures, surcharge loading and stability, and shall incorporate suitable subsoil drainage behind the wall to relieve hydrostatic pressure.

Hardstanding areas shall be constructed using pavement build-ups suitable for anticipated loading and ground conditions, on prepared and compacted subgrade.
Topsoil, vegetation and unsuitable material shall be stripped and removed from all construction areas.

Formation levels shall be inspected and any soft spots removed and replaced with suitable engineered fill.

Engineered fill and sub-base material shall be placed and compacted in layers in accordance with the Specification for Highway Works.

In-situ Concrete Slabs

All slabs shall be founded on a minimum 300mm thick Type 1 granular sub-base.

Sub-base shall be placed in layers not exceeding 150mm thick and compacted to the required specification.

Sprinkler Tank Base:
300mm thick reinforced concrete slab
Reinforcement: A393 mesh top and bottom

Bin Store Base:
150mm thick reinforced concrete slab
Reinforcement: A252 mesh top

Substation Base:
200mm thick reinforced concrete slab
Reinforcement: A252 mesh top and bottom

Minimum concrete cover to reinforcement to be as specified on structural drawings.
Concrete specification to be selected in accordance with ground conditions and exposure classification.

All works shall be carried out in accordance with relevant British Standards, Specification for Highway Works and current best practice.
The civil engineering works shall be coordinated with the drainage and structural design and are subject to detailed design and statutory approvals.

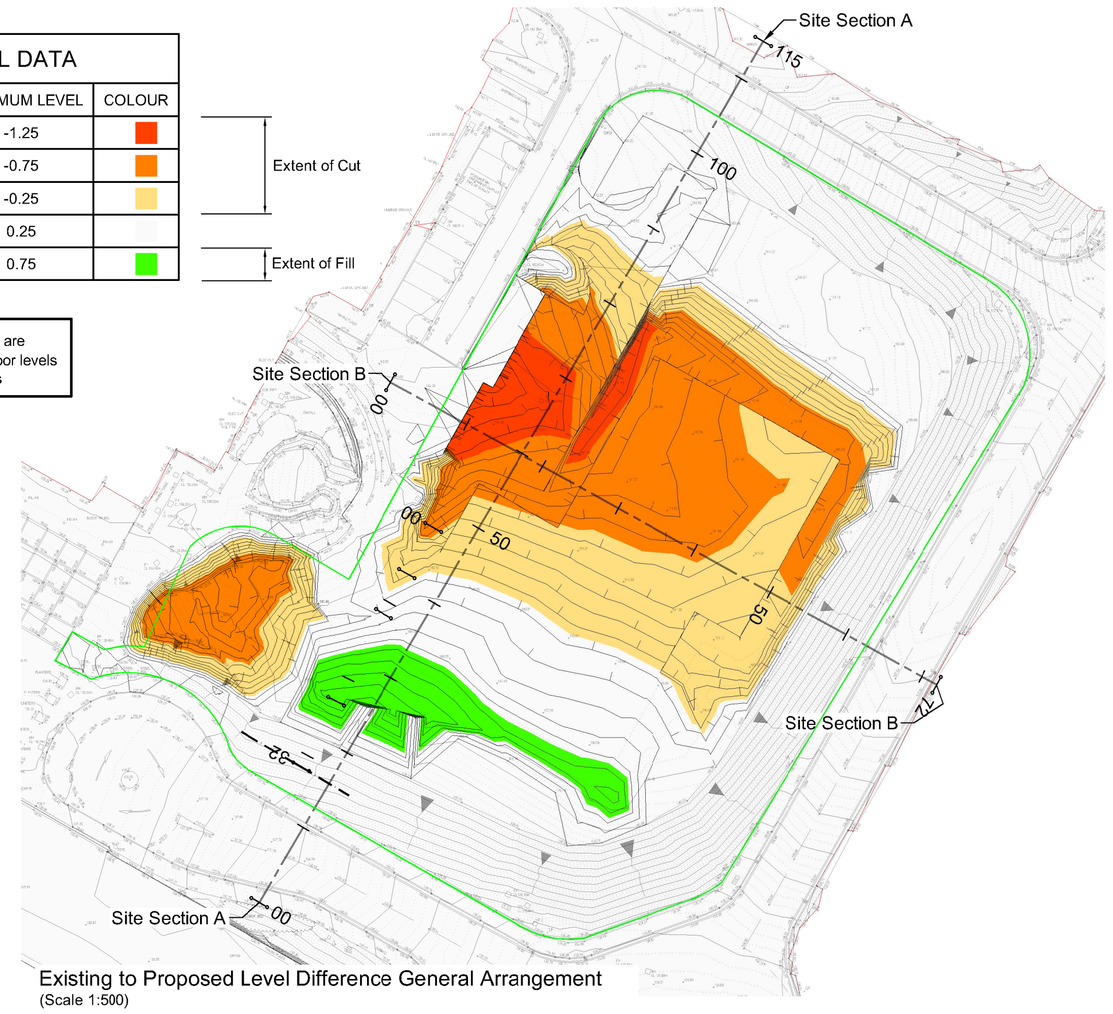
Site General Arrangement
(Scale 1:250)

SURFACE LEVEL DATA			
NUMBER	MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR
1	-1.75	-1.25	
2	-1.25	-0.75	
3	-0.75	-0.25	
4	-0.25	0.25	
5	0.25	0.75	

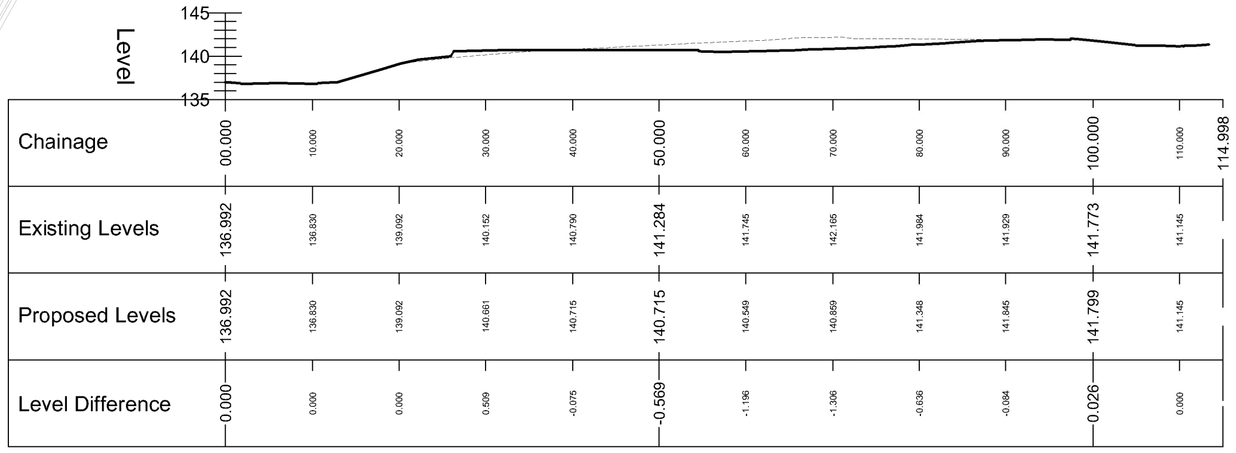
Extent of Cut

Extent of Fill

Important Note: the levels above are based on existing to proposed finish floor levels only - these are not CUT/FILL volumes

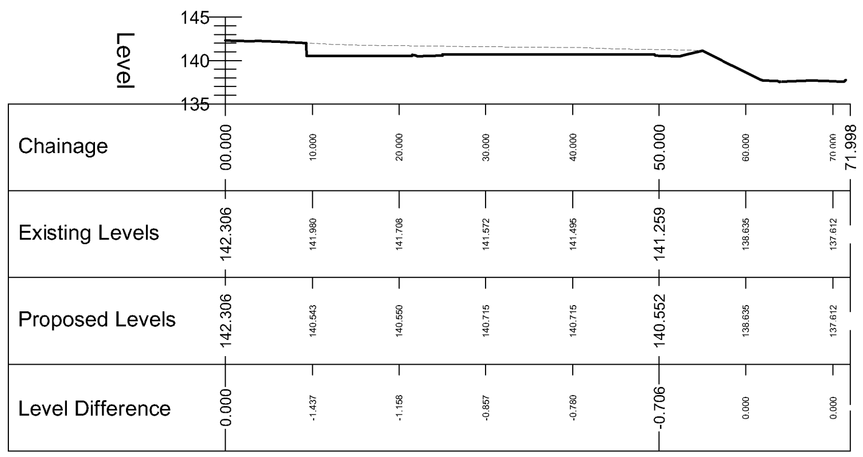


Existing to Proposed Level Difference General Arrangement
(Scale 1:500)



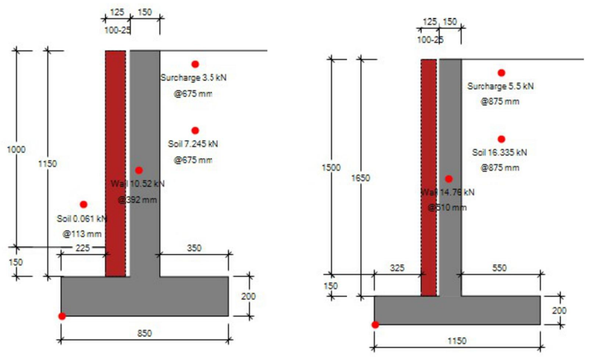
Chainage	00.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	114.998
Existing Levels	136.992	136.830	139.992	140.152	140.790	141.284	141.745	142.165	141.984	141.929	141.773	141.145
Proposed Levels	136.992	136.830	139.092	140.651	140.715	140.715	140.549	140.859	141.348	141.845	141.799	141.145
Level Difference	0.000	0.000	0.000	0.499	-0.075	-0.569	-1.196	-1.306	-0.636	-0.084	0.026	0.000

SITE SECTION A - LONGSECTION
SCALE: H 1:500,V 1:500. DATUM: 135.000



Chainage	00.000	10.000	20.000	30.000	40.000	50.000	60.000	71.998
Existing Levels	142.306	141.980	141.709	141.672	141.499	141.259	138.826	137.612
Proposed Levels	142.306	140.543	140.550	140.715	140.715	140.552	138.835	137.612
Level Difference	0.000	-1.437	-1.158	-0.957	-0.780	-0.706	0.009	0.000

SITE SECTION B - LONGSECTION
SCALE: H 1:500,V 1:500. DATUM: 135.000



Wall and base to be reinforced concrete Grade RC35

Reinforcement to be A252 mesh:
Base slab: top and bottom
Wall stem: both faces

Found on competent granular bearing stratum.

Allowable bearing pressure: 100kN/m² (subject to site confirmation).

Reinforcement laps: 300mm minimum (unless noted otherwise).

Retaining Wall Typical Details
(Scale NTS)

Client	Project	Drawing Title
Flintshire County Council	**Joint Archives Facility, Mold**	**Stage 3 - External Works**

Drawing Number
JAF-ENA-XX-XX-DR-C-5500

Purpose of Issue
Preliminary

Revision
P1

Status
S2

Paper
A1

Rev	Date	Drn	Chk	Details
P1	20.04.26	DRB	DRB	***Stage 3*** - Drawing Issue

- Proposed Archive Building
- Block Paving (Permeable)
- Tarmac (Car Park)
- Sub Station
- Sprinkler Tank Slab
- Resin Bound Gravel (Permeable)
- Permeable Tarmac (Foot Path)
- Site Boundary
- Retaining Wall (Masonry)

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