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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING

CONSTRUCTION

MAINTENANCE

DEMOLITION

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

GENERAL NOTES:
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL THE RELEVANT ARCHITECTS, ENGINEERS' AND SERVICE ENGINEERS DRAWINGS & SPECIFICATIONS.

Earthworks Notes:
1. This drawing is based on UMC architects drawing no. 21002-P01020.
2. This drawing is based on the Survey Hub survey received on 13.12.2021. No allowance has been made for any changes in ground profile after date of survey.
3. Proposed surface levels are shown on Burrows Graham drawing 21065-BGL-XX-XX-DR-S-00200
4. Contours are shown at 0.1m intervals
5. Reference should be made to the Existing Stockpiles drawing ref 21065-BGL-XX-XX-DR-S-00202 for volumes of the existing stockpiles on site which have not been included in the below calculations.
6. It is assumed that a 200mm deep layer of soil/hard material will be stripped prior to the commencement of earthworks. Actual depth of strip will vary to suit actual depth of material. This will affect final earthworks volumes.
Total Site Strip @200mm = 7,140 cu m (based on 35,700 m2 area)
7. The earthworks volumes are based on the following construction build ups:
Building Footprint - 450mm
Yard - 450mm
Car Park - 450mm
Footways - 450mm
8. No allowance has been made for bulking of materials.
9. All earthworks slopes are assumed to be 1:3 for the purposes of volume calculation only and this is subject to detailed geotechnical assessment prior to confirming final levels.
10. The volumes reported are calculated by comparing the following:
- existing ground levels after assumed 200mm average soil / hard material strip
- underside of construction building up (formation)
11. Preliminary earthworks volumes are as follows:

Cut = 11,950 cu m
Fill = 14,985 cu m
Fill shortfall = 3,035 cu m to be balanced with arisings.

Surplus material = 7,140 cu m from 200mm site strip. To be removed off site or crushed and used for capping layers where suitable.

12. All volumes stated on this drawing are based on preliminary calculations by Burrows Graham and should be verified by the earthworks contractors own calculations/modelling.

P02	02/02/22	JAM	For planning		MG
P01	07/01/22	JAM	FIRST ISSUE		JW
REV	DATE	BY	REVISION		CHK'D

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CLIENT

GRAFTONGATE

PROJECT

PENRHYN ROAD, MERSEYSIDE
KNOWSLEY BUSINESS PARK

DRAWING TITLE

EARTHWORKS VOLUMES

OUR PROJECT NUMBER	DRAWING STATUS	OFFICE	
21065	PRELIMINARY	NORTH	
SCALE @ A1	DATE	DRAWN BY	CHECKED BY
1:500	02/02/22	JAM	JW
DRAWING No		REV	
21065-BGL-XX-XX-DR-S-0201		P2	