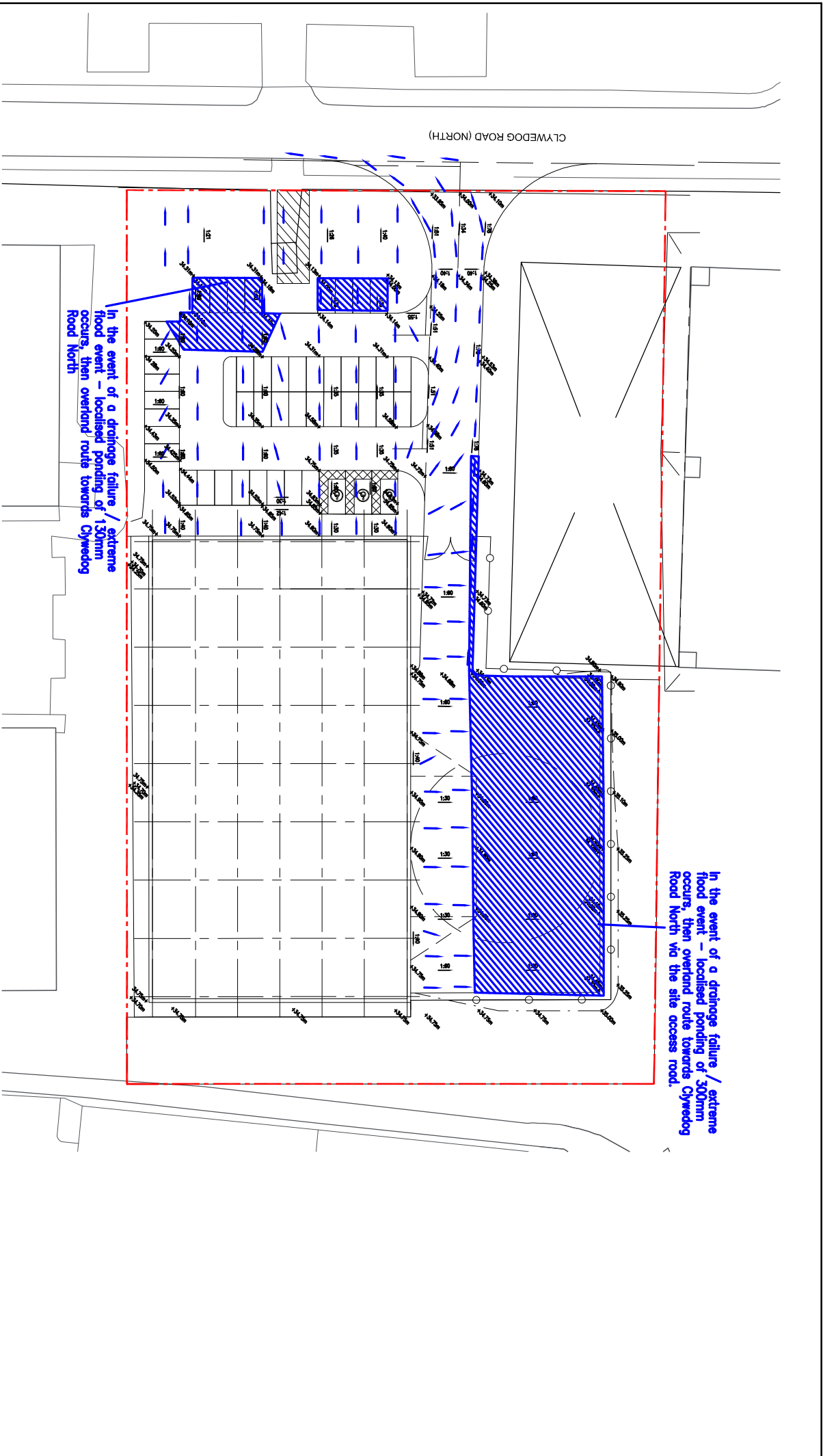


Location Index	
England and Wales	1
Scotland and Ireland	2

From Design and Analysis of Urban Storm Drainage, The Wallingford Procedure, Vol 1					
Table 6.1 Values of Constants to calculate Cr					
Geographic Location	Range of M5-D	Location Index	J0	J1	J2
England and Wales	0-10	1	0.1699	0.0028	0.000114
	11-30		0.1644	0.005831	-0.00013
	31-75		0.2644	-0.00162	3.15E-06
	76-150		0.2718	-0.00195	6.19E-06
	>150		0.1454	-0.00019	1.14E-07

APPENDIX 11

OVERLAND FLOOD ROUTES



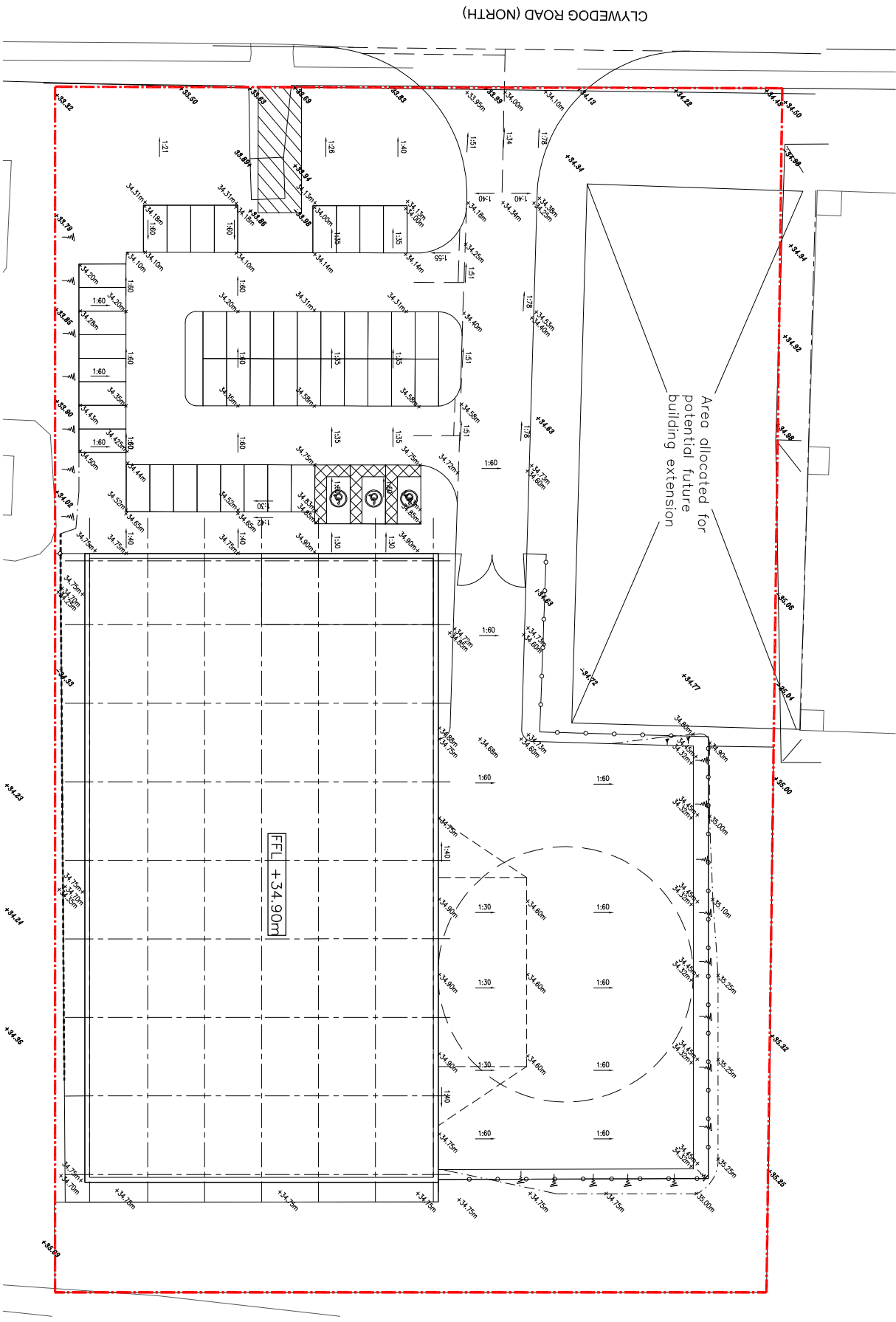
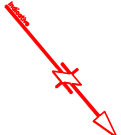
integra consulting Civil & Structural Engineers				Suite 3 14-32 Hewitt Street MANCHESTER M15 4GB Tel : 0161 237 3400 Fax : 0161 237 3635 Email : manchester@integroconsulting.co.uk Web : www.integroconsulting.co.uk				Contract WREXHAM INDUSTRIAL ESTATE	
Scale 1:500@A3	Drawn RH	Checked NS	Approved	Drawing No 2.05	Date 10/18	Rev P1	Title SITE 2 - OVERLAND FLOOD ROUTES		

APPENDIX 12

PROPOSED EXTERNAL LEVELS GENERAL ARRANGEMENT

Notes:

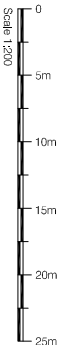
- 1 All dimensions are in millimetres unless noted otherwise
- 2 Proposed dimensions are indicated unless noted otherwise
- 3 This drawing is to be read in conjunction with all relevant Architects and Service Engineers drawings.



Legend

- Proposed Levels
- Existing Levels
- Site Boundary (Extent TBC by architect)
- Potential Retaining Wall
- 1 in 3 Landscaped Better

Proposed levels are indicative only for the purpose of generating a drainage scheme for the development site. Earthworks assessment, external design and cut / fill calculations have not been carried out and hence the levels indicated opposite are unlikely to achieve a cut & fill balance. Final site levels are subject to further detailed design and hence levels indicated are likely to vary.



Ref	Drawn	Date	Description
PRELIMINARY			
Contract	WREXHAM INDUSTRIAL ESTATE, WREXHAM		
Drawing Title	SITE 2 EXTERNAL LEVELS GA		
Scale	1:200 @ A1	Date	10/7/18
Drawn	RH	Checked	NS
Contract No	3036	Drawing No	P1

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Civil & Structural Engineers

APPENDIX 13

PROPOSED DRAINAGE GENERAL ARRANGEMENT

Note: FW drainage routes / sizes are indicative only subject to further detailed design.

Note: SW drainage scheme subject to WW / LLFA approval as required.

Note: SW attenuation volumes calculated for a 1 in 100 year event with a 30% allowance for climate change.

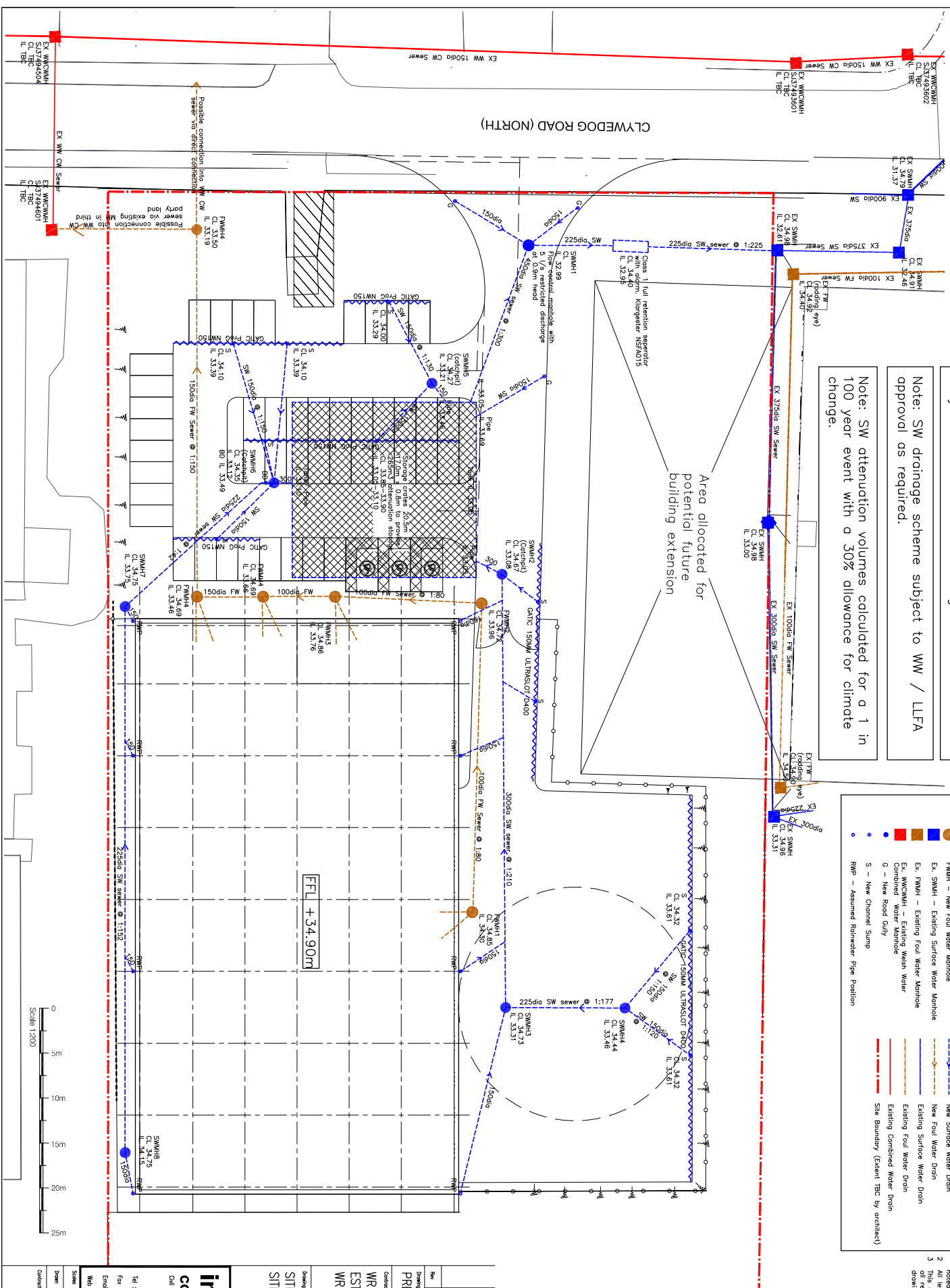
Legend

- SWMH – Surface Water Monitor
- FWMH – New Foul Water Monitor
- Ex. SMWH – Existing Surface Water Monitor
- Ex. FWMH – Existing Foul Water Monitor
- Ex. WWCWMH – Existing Wash Water
- Combined Water Monitor
- G – New Road Gully
- S – New Channel Sump
- RWP – Assumed Rainwater Pipe Position
- New Drainage Channel
- New Surface Water Drain
- New Foul Water Drain
- Existing Surface Water Drain
- Existing Foul Water Drain
- Existing Combined Water Drain
- Site Boundary (Extent TBC by architect)

Notes.

- All dimensions are in millimetres unless noted otherwise.
- Latent and surface water levels are noted otherwise.
- This drawing is to be read in conjunction with all relevant Architects and Service Engineers drawings.

CLWEDOG ROAD (NORTH)



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Scale 1:200 @ A1 Date 10/18

Drawn RH Checked NS

Contract No 3036 Drawing No 2.01 P1

WREXHAM INDUSTRIAL
ESTATE,
WREXHAM

Site 2
SITE DRAINAGE GA

PRELIMINARY

Rev Draw Date Description