



APPENDIX 1 - Plans



GROUNDTECH CONSULTING 	CLIENT	DATE			Status	Notes  SITE LOCATION
	ALDI STORES LIMIED	FEBRUARY 2022			Preliminary	
	PROJECT TITLE	SCALE			Draft	
	ALDI HOLBEACH	NTS			Issued	
	PLAN TITLE	PLAN NUMBER			For Comment	
	PROJECT LOCATION PLAN	GRO-21400-P01	Rev.	Details	Approved	

- KEY
- Site Boundary
 - Existing Foul Water Sewer to Remain
 - Existing Highways Drain
 - Existing Drainage to be Abandoned
 - Proposed Private Foul Drain
 - Proposed Private Surface Water Drain
 - Proposed Private Foul Water Rising Main
 - Proposed Private Surface Water Rising Main
 - Proposed Private Surface Water Land Drain
 - Proposed Type D, 450mm Ø PPICs
 - Proposed PCC Manhole (Silt Trap)
 - Proposed Channel Drain
 - Proposed Cellular Attenuation Tank (See Notes)
 - Proposed Road Gully
 - Proposed ASHP Gully
 - Proposed Surface Water Pump
 - Proposed Foul Water Pump
 - Proposed Bypass Oil Interceptor

REV	DATE	DESCRIPTION	DRW	CHK
C01	16.01.24	FIRST ISSUE	SI	NKS

GENERAL NOTES

DRAWINGS AND SPECIFICATIONS: This drawing is to be read in conjunction with all relevant Architects, Engineers and Specialists drawings together with the specification.

BUILDING REGULATIONS AND WARRANTY PROVIDER APPROVALS: Please note that it is the responsibility of the Client/Main Contractor to ensure that Building Regulations and warranty provider (e.g. NHBC) approval of all design and construction details is achieved prior to construction on site.

DRAINAGE NOTES

DRAINAGE STANDARDS: All private drainage works shall be in accordance with Building Regulations Document Part H. All adoptable drainage works shall be in accordance with Sewerage Sector Guidance Appendix C : Design and Construction Guidance and statutory undertaker's requirements.

ABOVE GROUND DRAINAGE: RWP/SVP drainage positions shown on Craddys drawings, upon which the below ground drainage is designed, are based upon the positions provided to us by the Architect and these are to be set out on the Architect's floor plans unless agreed otherwise. If above ground drainage positions change then Craddys will need to be informed of these changes in writing and the changes in position clearly noted or highlighted on a drawing, i.e. using revision clouds, with relevant CAD files provided to Craddys below ground drainage drawings to be updated. Note that should these changes occur following Craddys issue of Construction status drawings then there is a risk of the contractor undertaking abortive works.

LAYING DRAINAGE: It is recommended that all drains be laid starting from the downstream connection to the existing network and working upstream to and through the new development.

DRAINAGE PIPE SIZES: All foul water drains to be 100mm diameter unless noted otherwise. All surface water drains to be 150mm U.N.O.

MANHOLE COVER LEVELS: All manhole & inspection chamber cover levels are to be adjusted to suit the Craddy's proposed finished surface levels. If the cover levels proposed in the drainage schedules vary from proposed surface level by more than 100mm, Contractor to notify Craddys.

C D M : SIGNIFICANT HAZARDS

THE FOLLOWING HEALTH AND SAFETY HAZARDS ARE IDENTIFIED BY THE DESIGNER AS ABNORMAL IN PURSUANCE OF THE CURRENT CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS.

- RISKS DURING CONSTRUCTION:**
- DEEP EXCAVATIONS: Deep excavations may become unstable such that side walls collapse without warning. Adequate propping & shoring to be provided commensurate with site conditions and depth of excavations.
 - EXISTING SERVICES: Refer to existing services information provided by main contractor. Contractor to carry out further surveys/CAT scans to confirm exact location of services prior to excavations.
 - EXISTING FOUL & SURFACE WATER DRAINS: There are existing live drains that serve the previous site. Contractor to provide all the necessary safe-guarding measures and ensure that operatives are aware of this during construction.
 - ALLOW FOR DEWATERING: Groundwater expected from 0.8m to 1.5m BGL. Excavations below level of water strike to be dewatered by means of a suitable temporary pump system.
- OPERATION / MAINTENANCE RISKS:**
- MANHOLES/GULLIES/SILT TRAPS: To avoid blockages and flooding inspect manholes & silt traps for build up of silt and general debris (once a year, preferably in the spring after leaf fall in the autumn). If silt/debris is building up then clean with jetting lorry / gully sucker & inspect pipe.
 - INTERCEPTOR: Refer to manufacturers recommendations.
 - PUMP: Refer to manufacturers recommendations.
- RISKS DURING DEMOLITION/DECOMMISSIONING/DISMANTLING/ALTERATIONS:**
- No abnormal risks have been identified relating to this design element.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY COMPETENT & ADEQUATELY RESOURCED CONTRACTOR(S) TO SAFE SYSTEMS OF WORK.

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Client
ALDI - Aldi Stores Ltd.

Project Title
ALDI STORE

Project Address
FLEET STREET

HOLBEACH

Drawing Title
PROPOSED DRAINAGE LAYOUT

Job No: **79-E1602 CDY** Originator: **XX** Zone: **XX** Level: **DR** Type: **C**

System Classification: **Ss_50_35_00** Drawing No: **0050** Suitability: **A4** Revision: **C01**

Drawn: **SI** Checked: **NKS** Date: **16.01.24** Scale: **1:250** Size: **A1**

Approved: **RAG** Craddys Job #: **60108** IF YOU HAVE A QUERY CALL US
SCALING FROM THIS DRAWING OR OBTAINING DIMENSIONS ELECTRONICALLY MAY NOT PROVIDE ACCURATE INFORMATION & SHOULD BE AVOIDED. WORK ONLY FROM MEASURED DIMENSIONS.

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www.craddys.co.uk

HIGH GROUND WATER LEVEL.
Ground water level has been recorded as high in this area, refer to site investigation. Contractor to allow for dewatering during construction of drainage and below ground structures.

Bypass Separator - S'OIL.11
Class 1 Bypass separator. Klargestar NSBE010 complete with alarm system and vent. Vent location to be positioned next to nearest lighting column; alarm to sound in manager's office - refer to M&E engineer's drawings & specification. Specialist tank may be required due to high ground water

Proposed Surface Water Drainage Pump

- Proposed private storm water package pumping station. Saturn by T-T Pumps or similar and approved.
- Installation detail as per manufacturer's requirements.
- To be fitted with alarm. Alarm to sound in manager's office - refer to M&E engineer's drawings & specification (in the event of pump failure)
- Discharge rate: 2.2litres/sec.
- CL 3.67. Lowest incoming pipe IL 0.680m.

Proposed Foul Water Drainage Pump

- Proposed private foul water package pumping station. Venus by T-T Pumps or similar and approved.
- Installation detail as per manufacturer's requirements.
- To be fitted with alarm. Alarm to sound in manager's office - refer to M&E engineer's drawings & specification (in the event of pump failure)
- CL 3.64. Lowest incoming pipe IL 1.276m.

Cellular Attenuation Tank - Design Notes
Surface water from impermeable areas in the development to be attenuated via cellular attenuation tank. Tank formed with geocellular attenuation crates, with full access channels provided for maintenance. To be Core-R by Wavin or similar and approved.

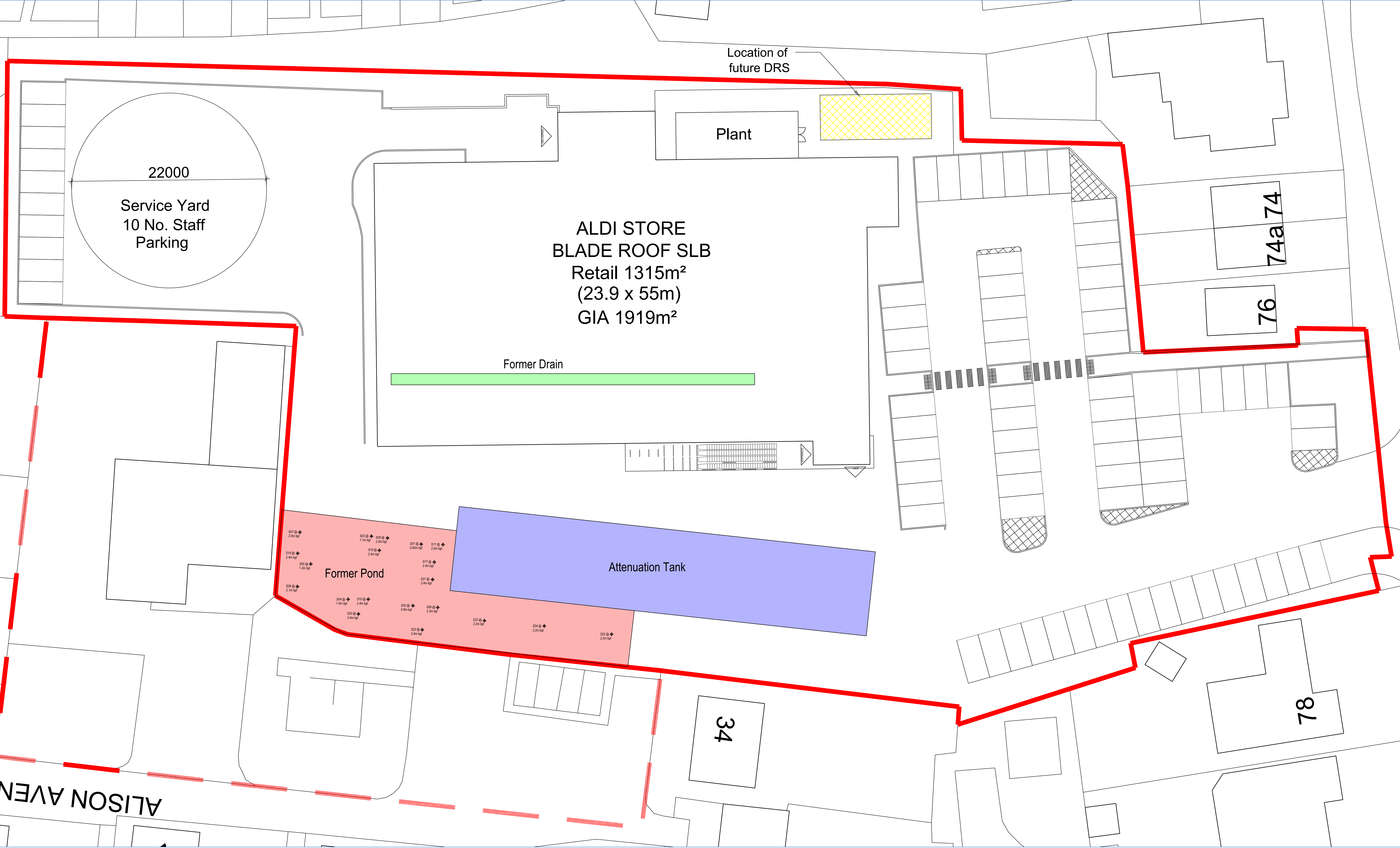
Plan dimensions 27.6 m x 13.8 m
Tank unit depth 0.8m
Tank volume 304.70m³
Porosity 96%
Effective storage 292.62m³
Cover level (Varies) 2.89m to 3.52
Top of tank level 1.427(1.20m Minimum Cover)
Tank base level 0.627

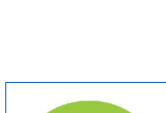
- Specialist tank supplier to confirm backfill/installation requirements for cover level and loading conditions.
- High ground water level is expected, concrete encasement to tank required.
- Contractor to allow for dewatering during excavations.

Cellular Attenuation Tank (1) - Design Notes
Surface water from impermeable areas in the development to be attenuated via cellular attenuation tank. Tank formed with geocellular attenuation crates, with full access channels provided for maintenance. To be Core-R by Wavin or similar and approved.

Plan dimensions 22.8 m x 11.4 m
Tank unit depth 0.8m
Tank volume 207.94m³
Porosity 96%
Effective storage 199.62m³
Cover level (Varies) 3.18m to 3.54m
Top of tank level 1.255m (1.20m Minimum Cover)
Tank base level 0.455m

- Specialist tank supplier to confirm backfill/installation requirements for cover level and loading conditions.
- High ground water level is expected, concrete encasement to tank required.
- Contractor to allow for dewatering during excavations.



GROUNDTECH CONSULTING 	CLIENT	ALDI STORES LTD	DATE	DECEMBER 2024				Status		Notes  Sample location  Extents of Former Pond  Approximate Extents of Former Drain 
	PROJECT TITLE	ALDI HOLBEACH	SCALE	NTS				Preliminary		
	PLAN TITLE	CONTAMINATION REMOVAL VALIDATION SAMPLES	PLAN NUMBER	GRO-21400-P10				Draft		
								Issued		
								For Comment		
					Rev.	Details	Date	Approved		

