

General Notes

1. All dimensions are in metres unless otherwise stated.
2. All levels are in metres.
3. This drawing is to be read in conjunction with all relevant Engineers and Architect's drawings, Specifications, Reports and Engineering Details.
4. Do not scale from this drawing.

Health, safety & the environment

In accordance with the Construction (Design and Management) Regulations 2015, the designs and details on this drawing have been the subject of a Designers Risk Assessment, to identify risks in the construction, use, or demolition of the scheme.

It is not considered necessary for Designers to highlight obvious and/or common risks (such as deep excavations, manual handling and working around heavy plant) which Contractors should be familiar with, and be able to control by good management and site practice.

So far as is reasonably practicable, the risks inherent in the design have been eliminated. Where it has been considered that elimination of a risk (or part of a risk) is not reasonably practicable, it has been reduced.

This drawing has been based/developed using the following external drawings					
Type	Company	Drawing date	Drawing title	Date received	Rev
Site Layout	JGA Architects	02.05.2023	23001.1000-P02 GA Site Layout	02.05.2023	P02
Topographical survey	EMP Surveys LTD	July 2022	1021_Pinchbeck Topographical Survey_Final	04.01.2023	P05
Utilities and Drainage survey	Survey Solutions	26.06.2023	48518NGUG-01 & 02	26.06.2023	B

Agreement	Approval Granted
S23 (Land drainage consent)	NOT APPROVED
S104 (Adoption of sewers)	NOT APPROVED
S278 (Works in existing highway)	NOT APPROVED
S106 (Foul connection)	Approved 23.05.2023

WORKS TO BE IN ACCORDANCE WITH
LINCOLNSHIRE COUNTY COUNCIL
SECTION 278 WORKS SPECIFICATION +
CONSTRUCTION - MARCH 2017

ALL ADOPTABLE DRAINAGE WORKS TO
BE IN ACCORDANCE WITH CODES FOR
ADOPTION DESIGN & CONSTRUCTION
GUIDANCE

DRAWINGS HAVE NOT BEEN APPROVED,
UNTIL THE DRAWINGS ARE APPROVED
THE DESIGNS AND DETAILS SHOWN ON
THIS DRAWING ARE SUBJECT TO
CHANGE.

ANY WORKS UNDERTAKEN PRIOR TO
TECHNICAL APPROVAL IS ENTIRELY AT
THE CONTRACTORS' RISK.

Site Wide Build-Up

Levels across the site have been lifted significantly above existing ground levels to allow for the following:

- To allow surface water drainage to drain to the existing ditch at the southern side of the site by gravity.
- To avoid deep foul drainage required to allow the site to drain to the existing AW manhole by gravity (alternative solution is to pump foul fouls via a rising main)
- To limit excavations required for drainage and services in the unstable ground and Made Ground, where high groundwater is present.

A geogrid will be required under all road, footway, parking areas and patios due to low strength soils (CBR values shave been shown to range from 5.2% to 0.3%) and deep Made Ground. Geogrid to be designed by a specialist.

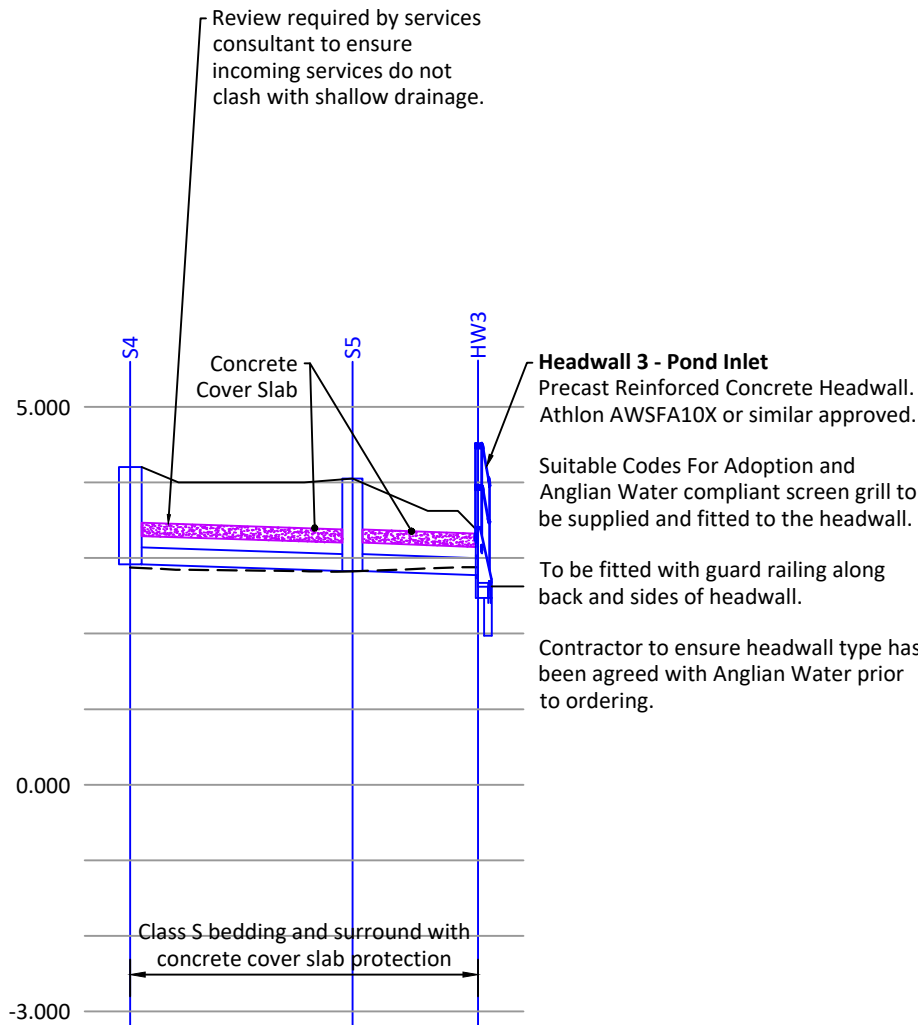
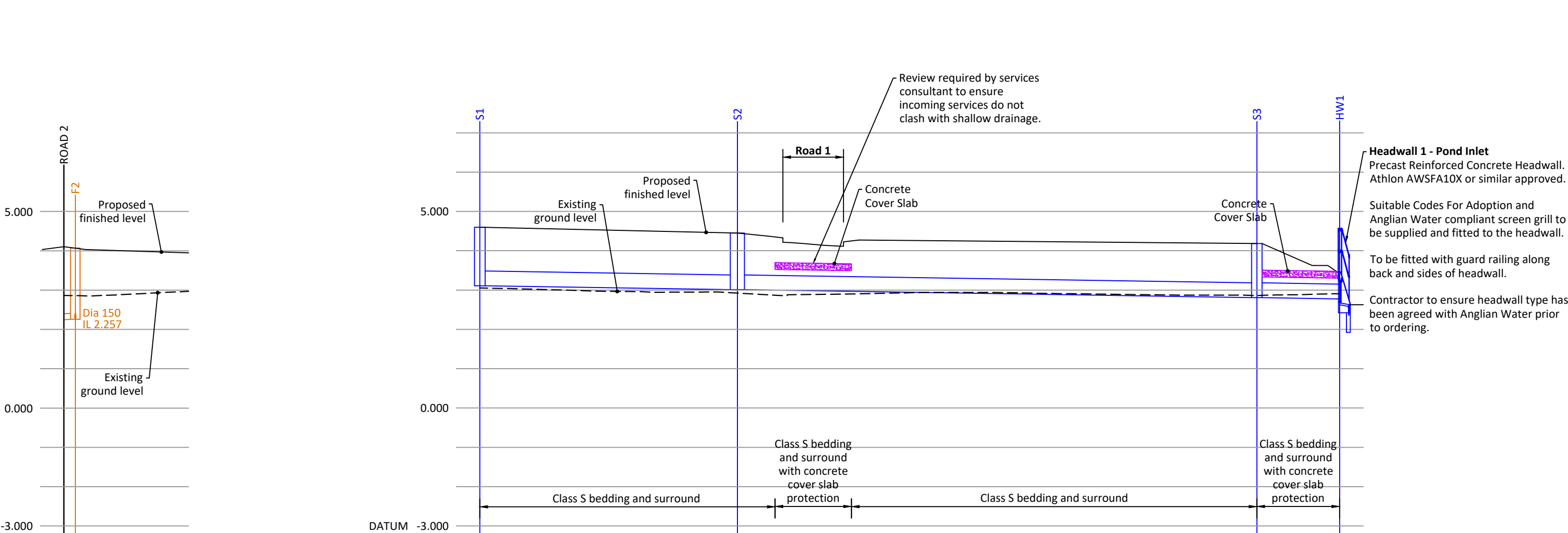
Allowance to be made for Geogrid to extend below all manholes and inspection chambers, and also to cover PQS and garden areas where there is a risk of future settlement. Fill material specification also to be advised by Geotechnical Engineer to reduce risk of settlement - allowance to be made for removal of Made Ground material.



Deep Made Ground present within area of proposed detention basin and plots 13-22 (exact extents of Made Ground unknown). Constant inflow of groundwater and excavation collapse encountered in this area during ground investigations. There is also the risk of trench instability and high groundwater across the site. Excavations have been limited where possible by raising site levels.

Geogrid required - design to be undertaken by a specialist. Allowance to also be made for removal of Made Ground.

Prior to commencing works the Contractor is to familiarise themselves with the ground conditions detailed within the Elemental GI Ltd Phase II Geo-Environmental Investigation Report (Jan 2022, Ref: E21142/2/1) and the findings of JPP Geotechnical additional ground investigations undertaken in February 2023. The Contractor is to ensure suitable safe working practices are followed in accordance with current best practice. The Contractor is to ensure the excavations are suitably managed with supports or benched to prevent collapse, and de-watering / pump equipment in place where required. Excavations are not to be left open for long periods



ROAD 4					
CHAINAGE	0.000	1.000	2.000	10.250	15.826
EXISTING GROUND LEVEL	2.864			2.912	2.968
CENTRE LINE		4.019		3.985	3.946
VERTICAL ALIGNMENT		G=-0.667% 1:-149.9			
HORIZONTAL ALIGNMENT					
LEFT HAND CHANNEL			3.915	3.883	3.878
RIGHT HAND CHANNEL			3.915	3.883	3.878
CROSSFALLS			LH=-2.50% RH=-2.50%		
FOULWATER COVER LEVEL		4.071			
FOULWATER INVERT		2.257			
FOULWATER DETAILS		Pipe 1001 Dia 150 Circular CLAY 1 in 150			
FOULWATER LENGTHS		50.705			

S1 to HW1										
EXISTING GROUND LEVEL	3.053	3.004	2.960	2.951	2.883	2.911	2.940	2.923	2.895	2.870
STORMWATER COVER LEVEL	4.600			4.450					4.185	3.625
STORMWATER INVERT	3.110			3.010	3.010				2.808	2.775
STORMWATER DETAILS	Pipe 1.000 Dia 375 Circular CONC 1 in 327				Pipe 1.001 Dia 375 Circular CONC 1 in 327				Pipe 1.002 Dia 225 Circular CLAY 1 in 319	
STORMWATER LENGTHS	32.756				66.047				10.537	

S4 to HW3				
EXISTING GROUND LEVEL	2.875	2.859	2.863	
STORMWATER COVER LEVEL	4.205		4.050	3.625
STORMWATER INVERT	2.915	2.827	2.827	2.775
STORMWATER DETAILS	Pipe 3.000 Dia 225 Circular CLAY 1 in 167		Pipe 3.001 Dia 225 Circular CLAY 1 in 160	
STORMWATER LENGTHS	14.692		8.310	