DRAINAGE IMPACT ASSESSMENT

Milk Permeate Project, Arla Dairy Westbury

Reference	**6238-JPG-XX-XX-RP-D-0622-S2-P01**
Date	**June 2023**
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CONFIDENTIALITY STATEMENT

This report is addressed to and may be relied upon by the following:

Arla Foods Limited
Arla House
Savannah Way
Leeds Valley Park
LEEDS
LS10 1AB

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DOCUMENT HISTORY

Revision	Date	Revision Details	Status	Author(s)	Approved
P01	17.06.2023	First Issue	Preliminary	BT	DSA

1.0 THE SITE

The site is located at 1 Stephenson Rd, Westbury BA13 4WD. Approximate centre of site located at OS coordinates E385585, N152137.

A site location plan is provided in Appendix A.

The existing development comprises of an industrial dairy with internal offices, associated concrete service yard and tarmac car parking areas.

Appendix B shows the existing site and drainage layout.

2.0 EXISTING DRAINAGE NETWORK

The dairy was initially constructed in 2002, with three separate drainage systems. Further extension works to the site in 2011 utilises and expanded these three separate systems as outlined below:

Surface Water

A below ground piped system collects and conveys rainwater from the site and discharges into the public surface water system. This then discharged into a large attenuation pond off-site at the junction of Stephenson Road and Storridge Road known as Northacre Lagoon, which ultimately drained into Biss Brook.

Within the design of the drainage scheme for the site an off-line 'containment/disaster ditch' was constructed to collect any milk/dairy contaminants discharged onto the site from the failure of tankers, silos etc by means of closing off the outfall into the public surface water drainage, in turn filling the off-line ditch. The contaminated water would then be pumped out of the ditch into the effluent treatment facility. Once the water collected within the containment/disaster ditch was deemed to be free of any contaminants, the outfall would be reopened, and surface water would once again discharge into the public surface water sewer.

As a protection against potential contamination of surface water from Dairy Building roof wate is by default routed to the containment/disaster ditch from which it is pumped to the site effluent treatment plant for processing. Upon COD tests confirming that the roof water is free of organic material this can be diverted for discharge directly into the public surface water network.

This is achieved by means of the closure of a Penstock valve situated on the drainage line close to the outfall and the opening of a valve which then pipes any further roof water directly into the public sewer network.

Surface water taken from hard paved areas at ground level across the entire site is piped as previously via a separate system to a point close to the outfall where it joins the roof water re-routed away from the ditch and then discharges into the public sewer.

Shortly before leaving the site a manually operated diverter valve is located on the system. Should a large scale spillage occur on site this valve can be closed off prohibiting any liquids from leaving the site and diverting all surface water into the disaster/containment ditch where it can be collected and pumped to the on-site effluent treatment facility.

Foul Water
Domestic foul waste from the site is collected within a piped system and discharges unrestricted into the public foul sewer within Stephenson Road.

Additional foul discharge from the site upon completion of the extension works is negligible as the only additional domestic foul envisaged is from a small external office and a number of condensate drains within the building.

Trade Effluent

Waters considered to contain contaminants collected during process works within the manufacture of dairy products on the site are treated on site before being discharged into the public foul water network at a rate agreed directly between Wessex Water and Arla Foods.

A piped network runs through the existing buildings collecting waters from process and plant areas, within the main buildings these pipes are split into 'process' and 'raw' effluent. These systems combine into a single effluent system once outside the building footprint.

The effluent waters are then piped to an on-site Effluent Treatment Facility before discharging into the public foul sewer at a set location and discharge rate as agreed between Arla Foods and Wessex Water.

Surface water taken from areas at high risk of dairy contamination, mainly in areas of milk/dairy product storage are collected within a surface effluent system and treated as effluent within the on-site treatment facility.

Appendix B shows the existing drainage layout.

3.0 PROPOSED SURFACE WATER DRAINAGE STRATEGY

The proposed works result in a net increase in drained impermeable area of 534m2, this represents approximately a 1.5% increase in total drained area on this site it is deemed negligible with little to no impact on the existing drainage network given the scale of the existing site and infrastructure.

The new hard paved areas will be positively drained via new drainage features as shown in Appendix C and will discharge into the existing private network.

4.0 PROPOSED EFFLUENT DRAINAGE STRATEGY

As part of the development new silos are proposed, within the area of these silo's potential spillage could occur. To ensure any potential spills do not reach the surface water network levels are engineered to ensure flows in risk areas are directed into stainless steel effluent channel drains before discharging to the existing effluent drainage network and ultimately the effluent treatment plant.

Appendix A Site Location Plan

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NOTES

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LEGEND:

INDICATIVE BOUNDARY

SITE LOCATION:

NEAREST POSTCODE: BA13 4WD
COORDINATES: **E**385590 **N**152134
ADDRESS: 1 Stephenson Road, Westbury, England
GRID REFERENCE: ST 85590 52134

0m 62.5m 125m

SCALE 1:2500

REV	DESCRIPTION	DATE	CHK	BY
P01	FIRST ISSUE.	12/06/23	RMR	BT

Project
MILK PERMEATE PROJECT
ARLA DAIRY
WESTBURY

Drawing Title
SITE LOCATION PLAN

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6238-JPG-ZZ-ZZ-DR-C-1000 | S2 | **P01**

Appendix B Topographic Survey & GPR Survey

NOTES;

CCTV KEY

- FOUL DRAINAGE
- SURFACE DRAINAGE
- COMBINED DRAINAGE

R1 RED CCTV RUN NUMBER DENOTES MAJOR FAULT

R2 AMBER CCTV RUN NUMBER DENOTES MINOR FAULT

R3 GREEN CCTV RUN NUMBER DENOTES NO FAULTS

UTILITY KEY

- ELECTRIC CABLE
- TELECOMS CABLE
- TV TV TV CABLE TELEVISION
- COM COM COM COMMUNICATION CABLE
- WATER PIPE
- GAS PIPE
- FOUL DRAINAGE
- SURFACE DRAINAGE
- COMBINED DRAINAGE
- F F F FUEL PIPE
- V V V VENT PIPE
- O O O OFFSET FILL PIPE
- G G G GAUGE LINE
- VR VR VR VAPOUR RECOVERY
- SERVICE DUCTS
- UNIDENTIFIED
- END OF TRACE

ABBREVIATIONS

AR	ASSUMED ROUTE	PR	PIPE RISER
BD	BACKDROP	RE	RODDING EYE
CP	CATCHPIT	RWP	RAINWATER PIPE
CL	COVER LEVEL	SA	SOAKAWAY
CR	CABLE RISER	SV	STOP VALVE
DP	DOWN PIPE	SVP	SOIL VENT PIPE
EP	ELECTRICITY POLE	TP	TELEGRAPH POLE
EoC	EDGE OF CANOPY	TFR	TAKEN FROM RECORDS
EOT	END OF TRACE	UTL	UNABLE TO LIFT
FH	FIRE HYDRANT	UTS	UNABLE TO SURVEY
G	GULLY	WL	WATER LEVEL
GV	GAS VALVE	VP	VENT PIPE
IC	INSPECTION CHAMBER	VR	VAPOUR RECOVERY
IL	INVERT LEVEL	WM	WATER METER
LH	LAMP HOLE	WO	WASH OUT VALVE
LP	LAMP POST		
MH	MANHOLE		
NVE	NO VISIBLE EXIT		
NL	NOT LOCATED		

SWS SURFACE WATER SEWER
FWS FOUL WATER SEWER
CWS COMBINED WATER SEWER

DISCLAIMER

ELECTRO-MAGNETIC TECHNIQUES AND/OR GROUND PENETRATING RADAR HAVE BEEN USED IN THE LOCATION OF UNDERGROUND SERVICES THE RESULTS ARE NOT INFALLIBLE AND TRIAL EXCAVATIONS SHOULD BE CARRIED OUT TO CONFIRM SERVICE IDENTIFICATION, POSITIONS AND PARTICULARLY DEPTHS. WHERE THESE ARE CRITICAL. ALTHOUGH ALL REASONABLE EFFORT HAS BEEN MADE IN SEARCHING AVAILABLE RECORD DRAWINGS, THE COMPLETENESS OF THE UNDERGROUND SERVICES INFORMATION CANNOT BE GUARANTEED. THE METHODS OF SURVEY DOES NOT DIFFERENTIATE BETWEEN LIVE AND DEAD SERVICES AND AS SUCH ALL SERVICES SHOULD BE TREATED AS LIVE.

WHERE SERVICES ARE NON-METALLIC POSITIONS MAY BE TAKEN FROM RECORDS,TRENCH SCARS & SURFACE DETAIL.

WHERE QUOTED, DEPTH ESTIMATIONS ARE GENERALLY TO THE CENTRE OF THE SERVICE. DEPTHS TO GRAVITY SEWERS AND DRAINS ARE GENERALLY TO INVERT LEVELS UNLESS OTHERWISE STATED.

PIPE SIZES WHICH CANNOT BE OBTAINED BY VISUAL SURVEY ARE TAKEN FROM RECORD DRAWINGS OR MARKER PLATES WHERE AVAILABLE.

WHERE GROUND PENETRATING RADAR HAS BEEN USED IT WILL PRIMARILY HAVE BEEN TO IDENTIFY UNDERGROUND UTILITIES IF POSSIBLE WE WILL ALSO IDENTIFY UNDERGROUND STRUCTURES/ TANKS ETC, BUT CANNOT GUARENTEE TO HAVE LOCATED ALL SUCH ITEMS THE USE OF RADAR CAN BE LIMITED BOTH BY SURFACE CONDITIONS AND ALSO BY SOIL TYPE. DEPTH ESTIMATES WOULD NOT NORMALLY BE PROVIDED FOR SERVICES LOCATED WITH GPR.

CLIENT

GREENHATCH

TITLE

LOCATION OF UNDERGROUND SERVICES

WESTBURY DAIRIES
WILTSHIRE
BA13 4WD

AMETHYST SURVEYS LIMITED
Unit 6a Davy Court, Central Park
Rugby, Warwickshire, CV23 0UZ
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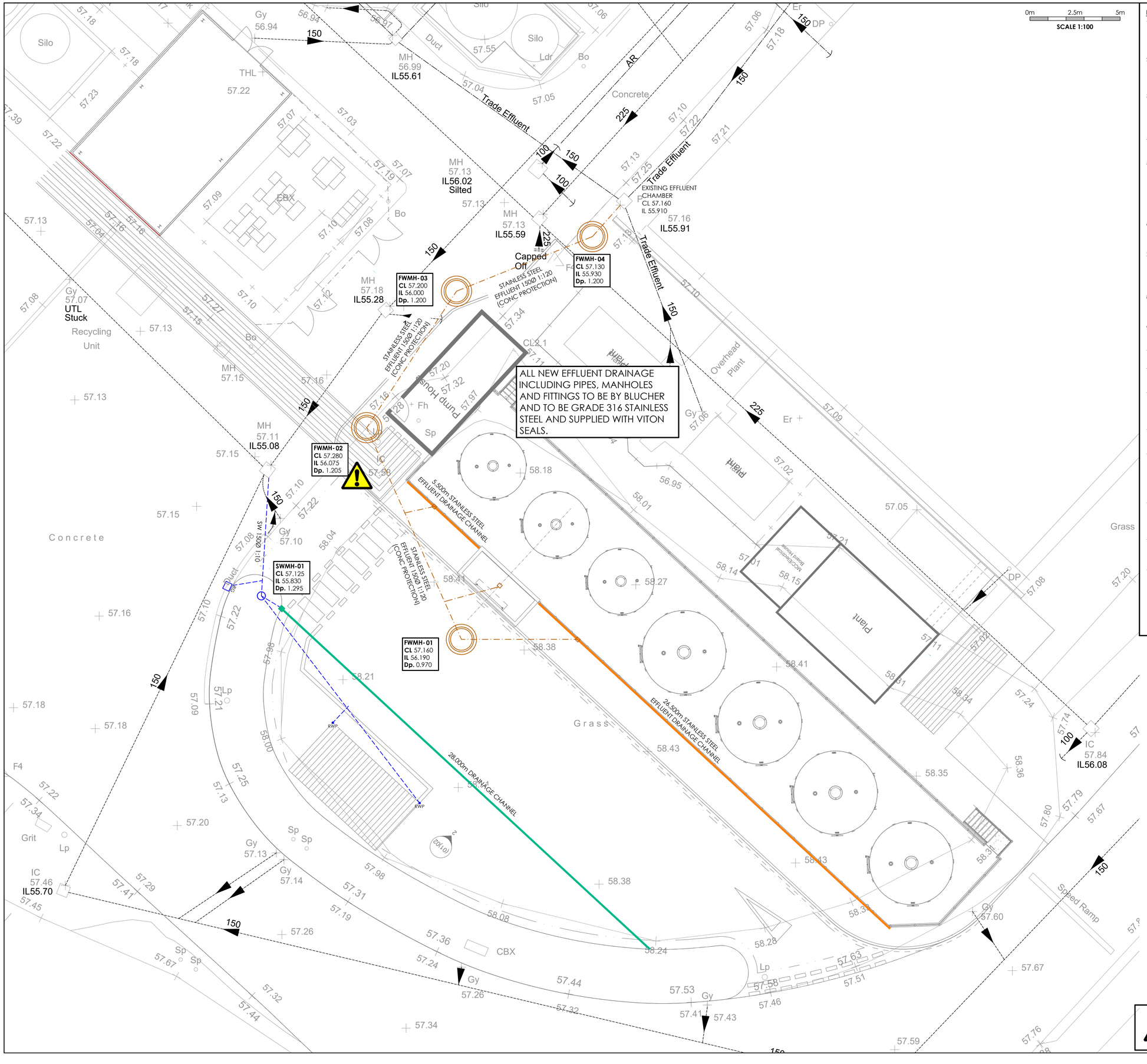
Fax: 01788 571158
Email: enquiries@amethystsurveys.com
www.amethystsurveys.com

MEMBERS OF THE SURVEY ASSOCIATION

DWG No	7893	SCALE	1:200 @ A1
SURVEYED	MD/MJ	DATE	07-08/07/10

Appendix C Proposed Drainage Layout



DRAINAGE NOTES

1. ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS EN 752:2008 DRAINAGE AND SEWER SYSTEMS OUTSIDE BUILDINGS, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS.
2. ANY DRAINAGE TO BE PUT FORWARD FOR ADOPTION EITHER WITHIN THE SITE OR OUTSIDE SHALL BE CONSTRUCTED TO SEWERS FOR ADOPTION LATEST EDITION AND ANY SPECIFIC REQUIREMENTS OF THE ADOPTING SEWERAGE/WATER AUTHORITY.
3. THE LOCATION, SIZE AND DEPTH OF ALL EXISTING DRAINS/SEWERS AND SERVICES SHALL BE ESTABLISHED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS ON SITE. ANY DISCREPANCIES FROM THE INFORMATION INDICATED ON THESE DRAWINGS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD ANY EXISTING LIVE DRAINAGE BE FOUND WITHIN THE SITE BOUNDARY SERVING ADJACENT PROPERTIES.
5. ALL EXISTING DRAINAGE WITHIN THE SITE NOT REQUIRED FOR THE NEW DEVELOPMENT SHALL BE ABANDONED. DRAINS AND SEWERS LESS THAN 1.500m DEEP WHICH ARE IN OPEN GROUND SHOULD AS FAR AS IS PRACTICABLE BE FULLY REMOVED ALL OTHER PIPES SHOULD BE SEALED AT BOTH ENDS AND AT ANY POINT OF CONNECTION, AND BE GROUT FILLED TO ENSURE THAT RATS CANNOT GAIN ACCESS. LARGER PIPES 225Ø OR ABOVE SHOULD BE GROUT FILLED TO PREVENT SUBSIDENCE OR DAMAGE TO BUILDINGS OR SERVICES IN THE EVENT OF COLLAPSE.
6. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT AND DIVERSION WORKS AS NECESSARY, TO ALL EXISTING SERVICES TO THE SATISFACTION OF THE UTILITY COMPANIES.
7. THE CONTRACTOR SHALL ALLOW FOR DEALING WITH SURFACE WATER RUN OFF INTO EXCAVATIONS AND FROM GROUNDWATER BY MEANS OF SUMPS, PUMPING AND DE WATERING AS APPROPRIATE, IN ORDER TO KEEP THE EXCAVATION AS REASONABLY DRY AS POSSIBLE DURING THE CONSTRUCTION OF THE WORKS.
8. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS IN LINE WITH CURRENT LEGISLATION WHEN WORKING IN/NEAR CONFINED SPACES, DEEP EXCAVATIONS AND MACHINERY.
9. THE CONTRACTOR SHALL ALLOW FOR OBTAINING ALL APPROVALS FROM THE RELEVANT AUTHORITIES WHEN WORKING IN THE PUBLIC HIGHWAY AND ON THE SEWERAGE SYSTEM.
10. THE CONTRACTOR SHALL SUITABLY PROTECT PEDESTRIANS AND VEHICLES FROM WORKING AREAS.
11. ALL MANHOLE/CHAMBER COVER LEVELS ARE APPROXIMATE AND SHALL BE ADJUSTED ON SITE TO SUIT THE PROPOSED FINISHED LEVELS.
12. ALL PIPES SHALL BE LAID WITH LEVEL SOFFITS AND ALL MANHOLE/INSPECTION CHAMBER INVERT LEVELS SHOWN ARE FOR THE OUT GOING PIPE UNO. ON THE DRAWING (NOTE THAT ALL PIPE GRADIENTS INDICATED ON THE DRAWING ARE APPROXIMATE ONLY).
13. ALL PIPE CONNECTION FROM DRAINAGE CHANNELS AND GULLIES SHALL BE 150Ø PIPES AT A MINIMUM GRADIENT OF 1:100 WITH CLASS Z BEDDING UNO. ON THE DRAWING.
14. ALL PIPE CONNECTIONS FROM RWP'S TO BE 100Ø AT 1:60 MIN. AND ALL PIPE CONNECTIONS FROM WPC'S TO FIRST CHAMBER SHALL BE 100Ø AT 1:40 MIN. WITH CLASS S BEDDING BENEATH THE BUILDING AND CLASS Z UNDER EXTERNALS WHERE COVER IS LESS THAN 1.20m UNO. ON THE DRAWING (LOCATION OF RWP'S AND WPC'S TO BE CONFIRMED BY THE ARCHITECT AND ARE SHOWN INDICATIVELY ONLY).
15. ALL SYPHONIC RWP SYSTEMS TO BE DESIGNED BY OTHERS. PIPEWORK FROM DOWN PIPE TO FIRST MANHOLE TO BE SIZED/ DESIGNED BY SYPHONIC SYSTEM DESIGNER. THE FIRST MANHOLE TO HAVE AN OPEN GRATE COVER SAINT GOBAIN WATERWAY 2000 - D400 OR SIMILAR APPROVED.
16. SUITABLY SIZED PETROL INTERCEPTORS MUST COMPLY WITH THE REQUIREMENTS OUTLINE IN PPG3 THESE INCLUDE SILT STORAGE CAPACITY AND HIGH LEVEL HYDROCARBON ALARM WIRED BACK TO A MANNED OFFICE.
17. UPON COMPLETION OF THE DRAINAGE WORKS THE CONTRACTOR SHALL CLEAN ALL DRAIN RUNS BY JETTING AND REMOVE ALL DEBRIS FROM SITE. NO DEBRIS SHALL BE PERMITTED TO ENTER THE PUBLIC SEWER AND/OR WATERCOURSE SYSTEM. ONCE THE DRAINAGE SYSTEM HAS BEEN FULLY CLEANED OUT A CCTV CAMERA CONDITION SURVEY SHALL BE UNDERTAKEN TO ALL CONSTRUCTED DRAINAGE AND SEWER PIPES WITH THE FOOTAGE ISSUED TO THE ENGINEER FOR VIEW. THE AS BUILT INVERT AND COVER LEVELS SHALL BE RECORDED BY THE CONTRACTOR AND PASSED ON TO THE ENGINEER FOR REVIEW.

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NOTES

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LEGEND

- PROPOSED SURFACE WATER PIPE
- PROPOSED SURFACE WATER MANHOLE
- PROPOSED EFFLUENT PIPE
- PROPOSED EFFLUENT MANHOLE
- EXISTING SURFACE WATER PIPE
- EXISTING SURFACE WATER MANHOLE
- EXISTING FOUL WATER PIPE
- EXISTING FOUL WATER MANHOLE
- PROPOSED DRAINAGE CHANNEL
- PROPOSED EFFLUENT CHANNEL
- RG PROPOSED ROAD GULLY
- RWP PROPOSED RAINWATER PIPE
- SRWP PROPOSED SYPHONIC RAINWATER PIPE
- WPC PROPOSED WASTE POINT CONNECTION

REV	DESCRIPTION	DATE	CHK	BY
P01	FIRST ISSUE.	12/06/23	DSA	BT

Project
SILO & YARD EXTENSION
ARLA DAIRY
WESTBURY

Drawing Title
PROPOSED DRAINAGE LAYOUT

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Appendix D Proposed Site Layout Plan

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REV	DESCRIPTION	INITIALS/DATE

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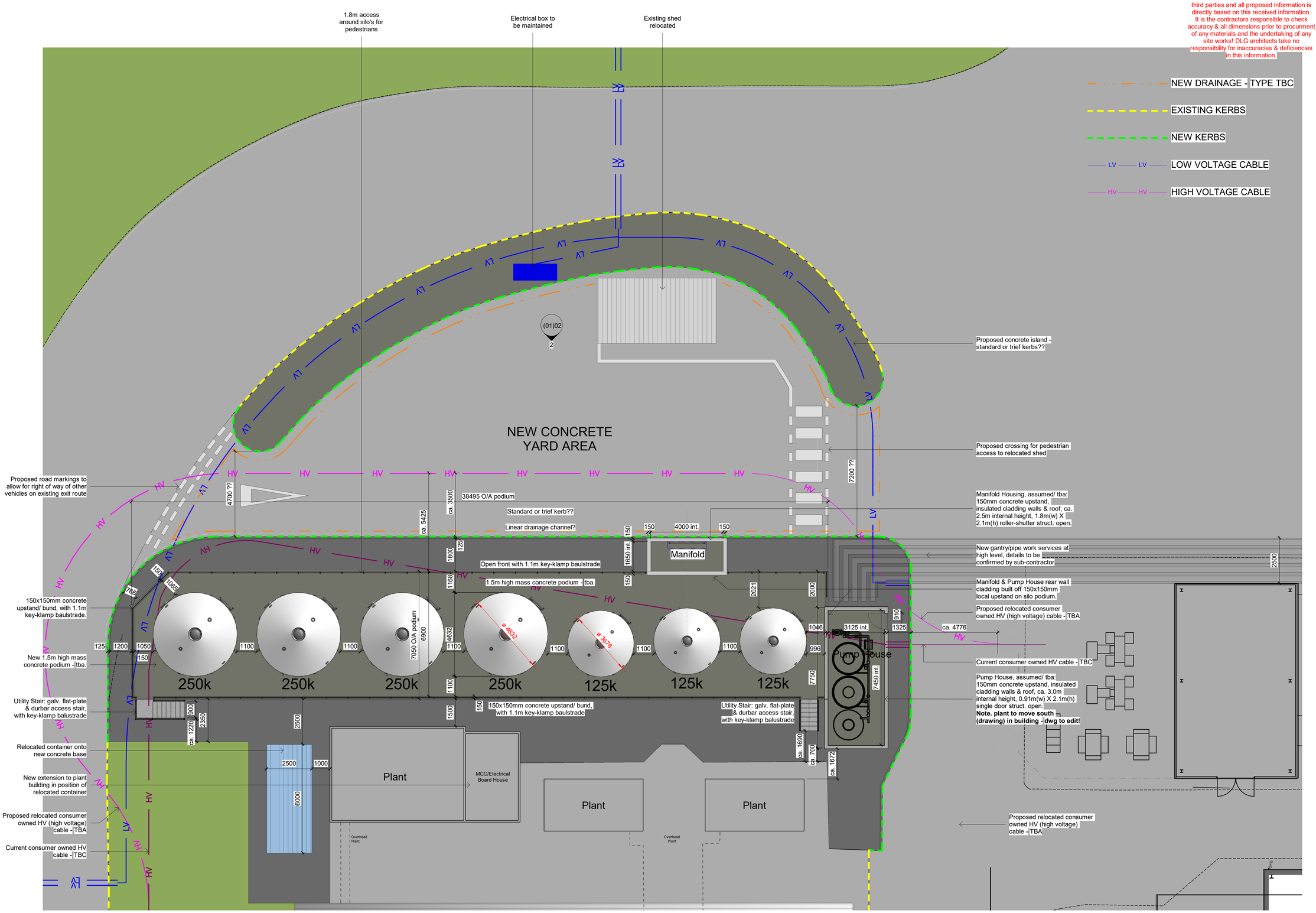

Notes.

This drawing is to be read in conjunction with:

All project related DLG drawings.

All Structural Engineers drawing, specifications, schedules, etc.

All M&E Engineers drawing, specifications, schedules, etc.

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All dimensions must be checked on site by the Contractor prior to the commencement of any fabrication or building works. Where applicable, dimensions and details are to be read in conjunction with specialist consultants' drawings and/or other specifications; any disparity is to be brought to the attention of contractor prior to the commencement of any fabrication or building works.

All products and materials to be installed in strict accordance with relevant manufacturers' guidance and instructions, by persons suitable certified/approved by manufacture.

All structural elements, including but not limited to, primary & secondary and hot & cold rolled structural steelwork, foundations, lintels, blockwork strength, etc, are to be to S.E (Structural Engineer), design & specification.

All works to be in accordance with current editions and relevant clauses of Building Regulations, British Standards, Codes Of Practice and HSE Directives, even if not stated.

Any discrepancies to these are to be notified to the supervising BCO &/or relevant officials.

WORK IN PROGRESS 2023.05.18.

JOB NAME
ARLA
WESTBURY DAIRY
1 STEPHENSON ROAD
WESTBURY BA13 4WF

DRAWING TITLE
SILOS & SERVICE YARD PLAN - PROPOSED

STATUS	SCALE @ SIZE
WORK IN PROGRESS	1:100 @ A1

DATE	SHEET BY	CHECKED BY
APR 23	JF	DB

JOB NO	DRAWING NO.	REV
4478	DLG-B01-A-DR-A-(00)03	

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1 ENERGY CENTRE ROAD PLAN - PROPOSED

1 : 100

Scale 1 : 100 @ A1
Scale 1 : 200 @ A3

0 1 2 5 10 m

Appendix E Proposed Levels

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0m 2.5m 5m

SCALE 1:100

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LEGEND

- 0.000 — DENOTES PROPOSED MAJOR CONTOURS
- 0.000 — DENOTES PROPOSED MINOR CONTOURS
- ×0.000m — DENOTES PROPOSED LEVELS
- ×EX. GL 0.000m — DENOTES EXISTING LEVELS
- 1:40 — DENOTES PROPOSED GRADIENTS

PROPOSED TIE IN TO HAVE DEBONDED JOINT

AREA OF SLAB TO BE REMOVED FOLLOWING THE EXISTING SLAB JOINTS AND RECONSTRUCTED TO SUIT PROPOSED KERB LEVELS

PROPOSED TIE IN TO HAVE DEBONDED JOINT

REV	DESCRIPTION	DATE	CHK	BY
P01	FIRST ISSUE.	12/06/23	DSA	BT

Project
SILO & YARD EXTENSION
ARLA DAIRY
WESTBURY

Drawing Title
PROPOSED LEVELS

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