DRAINAGE LEGEND:

- 150ø @ 1:150 — INDICATES PROPOSED SURFACE WATER DRAIN
- SW (ref) — INDICATES PROPOSED SURFACE WATER MANHOLE
- A.J. — INDICATES PROPOSED SURFACE WATER ACCESS CHAMBER
- G. — INDICATES PROPOSED GULLY TRAP
- RWP — INDICATES PROPOSED RAIN WATER PIPE
- Kl. — INDICATES PROPOSED KERB INLET
- 150ø @ 1:150 — INDICATES EXISTING SURFACE WATER DRAIN
- M.H. — INDICATES EXISTING SURFACE WATER MANHOLE
- A.J. — INDICATES EXISTING SURFACE WATER ACCESS CHAMBER
- 150ø @ 1:150 — INDICATES PROPOSED FOUL SEWER
- FS (ref) — INDICATES PROPOSED FOUL SEWER
- A.J. — INDICATES PROPOSED FOUL ACCESS CHAMBER
- INDICATES PROPOSED 100mmø MoPVC WATERMAIN
- S.V. — INDICATES PROPOSED SLUICE VALVE
- H — INDICATES PROPOSED HYDRANT
- M — INDICATES PROPOSED WATERMETER
- SCV — INDICATES PROPOSED SCOUR VALVE
- WM — INDICATES EXISTING WATERMAIN
- WM H — INDICATES EXISTING HYDRANT
- WM S.V. — INDICATES EXISTING SLUICE VALVE
- INDICATES PROPOSED SOILED WATER LINE
- SW (ref) — INDICATES PROPOSED SOILED WATER MANHOLE
- INDICATES PROPOSED DIGESTATE / SLURRY LINE
- INDICATES SITE BOUNDARY
- INDICATES PROPOSED SWALE
- INDICATES PERMEABLE PAVING
- INDICATES PROPOSED CHECK DAMS @ 10.0m

PROPOSED 63mmØ POTABLE MAIN TO SERVE AD PLANT

EXISTING HAY BARN

EXISTING POTABLE WATER MAIN SERVICE CATTLE YARD

EXACT LOCATION OF THE EXISTING WATER MAIN TO BE SURVEYED

2.5m SWALE WITH CHECK DAMS

CHECK DAMS

EXISTING CATTLE YARD & ASSOCIATED BUILDINGS

OCMH CL:57.780 IL: 56.850

WHEEL SPRAY COLLECTION TANK TO BE AGREED WITH SPECIALIST.

SWMH 14.0 CL:54.840 IL:53.340

TWIN WALLED PIPE ALLOWED FOR FUTURE SEVERING DOWN THROUGH ADJACENT EXISTING CATTLE PENS

SWMH 13.0 CL:54.260 IL:52.810

SWMH 9.0 CL:57.000 IL:55.500

100ø FIREMAIN

WATERMAIN LINE HERE TO SUPPLY BD SECURITY SPRAYS

225ø @ 1:78

225ø @ 1:74

SWMH 15.0 CL:55.670 IL:54.170

EXISTING ONION STORE

WHEEL SPRAY DRAIN COLLECTION TANK

EXISTING 150mmø FIREMAIN

EXISTING DRAIN FROM THE ADJACENT FIELD THAT DRAINS STORM WATER – EXACT LOCATION TO BE SURVEYED DURING CONSTRUCTION AND RE-ROUTED AS NEEDED

SWMH 7.3 CL:54.600 IL:53.630

SWMH 7.2 CL:54.560 IL:53.500

INTERNALLY PLACED ACO DRAIN AT SHUE GATES TO DRAIN INTO THE SOILED WATER SYSTEM

SWMH 8.0 CL:54.815 IL:53.315

PERCOLATION TO SPECIALIST DESIGN

SWMH 7.1 CL:54.580 IL:53.341

SWMH 7.0 CL:54.260 IL:52.760

BACKDROP IL:53.150

EXISTING POTATO STORE

AD PROCESS USES 8000 m3 OF WATER PER YEAR – THUS THE SOILED WATER TO BE REUSED TO FEED THE AD PROCESS

SWMH 4.1 CL:51.000 IL:49.945

ACO DRAIN

SWMH 2.1 CL:51.000 IL:49.890

SWMH 6.0 CL:53.040 IL:51.540

ON-SITE GAS LINES TO AD PROCESS SPECIALISTS FINAL DESIGN

GAS LINE TO BE AGREED WITH GNI

S.V. S.V.

6X6 LOOP

SAFETY OVERFLOW DISCHARGE LINE, IF ACTIVATED, AUTOMATICALLY TRIGGERS BERMED AREA SHUT OFF VALVE

PIPE HEAD WALL AND SPILL COLLECTION CHAMBER

SWMH 11.0 CL:54.000 IL:52.285

TWIN WALLED PIPE (FOR LEAKAGE PREVENTION) FEEDING DIGESTATE INTO THE LAGOONS

SWMH 10.0 CL:51.100 IL:51.715

ROOF TO DRAIN INTO THIS PIPE

SWMH 3.0 CL:51.000 IL:49.680

SWMH 2.0 CL:51.000 IL:49.620

ON-SITE GAS LINES TO AD PROCESS SPECIALISTS FINAL DESIGN

SWMH 5.0 CL:51.000 IL:50.400

SWMH 4.0 CL:51.000 IL:49.775 (450) IL:50.000 (225)

2x GULLIES

NON-RETURN VALVE + AUTOMATIC SHUT OFF VALVE TRIGGERING IF SOILED WATER #2 IS FULL

OIL TRAP WITH CONTROL VALVE TO DIRECT RAIN WATER INTO THE AD PROCESS IN THE DRY SEASONS

EARTH BERM + CONCRETE WALLS CREATES THE BUNDED AREA TO PREVENT ANY DESIGN LEAKAGE FROM THE TANKS TO REACH THE ADJOINING PROPERTIES

SWMH 1.0 CL:51.000 IL:49.500

NSBE030 KLARGESTER BY-PASS SEPARATOR 100mm CROSS FALL BETWEEN INVERT AND OUTLET IL @ INLET: 49.491 IL @ OUTLET: 49.391

WATER DETENTION BASIN 1 IMPERMEABLE BASIN VOLUME PROVIDED: 1841.12m³ TWL FOR 100 YEAR+=51.00 INVERT LEVEL OUTFALL=+48.00

NSBE025 KLARGESTER BY-PASS SEPARATOR 100mm CROSS FALL BETWEEN INVERT AND OUTLET IL @ INLET: 51.080 IL @ OUTLET: 49.980

SWMH 20 CL = 51.00 IL = 48.00 IL(adj) TO SUIT FLOW CONTROL HYDROBRAKE MANHOLE WITH A DISCHARGE RATE OF 8.47l/sec @ A HEAD OF 1.2m. AN AUTOMATIC SHUT-OFF VALVE TO BE INSTALLED UPSTREAM OF THE FLOW CONTROL TO STOP THE FLOW IN AN EMERGENCY. THE SHUT-OFF VALVE WILL BE LINKED TO THE SCADA ALARM SYSTEM.

SWMH 22 CL = 52.00 IL = 47.975 MONITORING,FLOW/QUALITY MONITORING + PROVISION FOR SAMPLE COLLECTOR TO BE INCORPORATED ON THE OUTFALL

HEADWALL AT OUTFALL TO EXISTING DRAIN

EXISTING DITCH FLOW

SWMH 21 CL = 52.00 IL = 51.00 IL(adj) TO SUIT FLOW CONTROL HYDROBRAKE MANHOLE WITH A DISCHARGE RATE OF 6.10l/sec AT A HEAD OF 1.00m

NORTH

SWMH 12.0 CL:54.000 IL:52.540

SWMH 10.2 CL:53.030 IL:51.680

2x GULLIES

CHECK DAMS @ 10.0m

2.0m SWALE WITH KERB INLET @ 5.0m

COMBINED DIGESTATE STORAGE CAPACITY OF THE LAGOONS TO REACH 74,000 m³ (TO LAGOON SPECIALIST DESIGN AND DETAILS)

LAGOONS ARE COVERED WITH PLASTIC TUBS THAT PREVENT THE STORED DIGESTATE TO BE MIXED WITH THE RAIN WATER ACCUMULATED ONTO THE TUBS. THESE ARE TO BE PUMPED AT THESE LAGOONS AND TO LAGOON SPECIALIST DESIGN AND DETAILS) TO DIRECT THE RAIN WATER INTO THE WATER DETENTION BASIN #2

PIPE HEAD WALL AND SPILL COLLECTION CHAMBER

SWMH 10.1 CL:52.990 IL:51.330

WATER DETENTION BASIN #2 VOLUME PROVIDED: 612.61m³ TWL FOR 100 YEAR+=52.00 INVERT LEVEL OUTFALL=+47.00

SWALE OVERSPILLS INTO THE DETENTION BASIN

1.0m SWALE WITH KERB INLET @ 5.0m

ANBORD PLEANÁLA
LOG 32CC8
DATE: 19 MAR 2025
FROM:
Fax-6
Time:
By: LSLP

DOHERTY FINEGAN KELLY
DOHERTY FINEGAN KELLY
CONSULTING CIVIL & STRUCTURAL ENGINEERS
Botanic Court, 20 Botanic Road,
Glasnevin, Dublin D09 W2V8.
Tel:(01) 8301852 Fax:(01) 8602265
E-Mail mailroom@dfk.ie

Drawn By	Scale
EY	AS SHOWN
Checked By	Date
EF	19 Nov '24
Drg.No. 22221/1150	Rev. A

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Project: ANAEROBIC DIGESTION PLANT, COLLINSTOWN, LUSK CO DUBLIN

Drg.Title: DRAINAGE LAYOUT

Rev.	Date	Drawn By	CHECKED By	Revision
A	12/03/25	EY	EF	REVISONS TO MATCH UPDATED ROADS

Status: PLANNING PERMISSION

Client: COUNTRY CREST ULC

NOTES COLOUR AO

NOTES:–
FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING. DIMENSIONS TO BE CHECKED ON SITE.

THIS DRAWING TO BE READ IN CONJUCTION WITH ALL OTHER ARCHITECTURAL & ENGINEERING DRAWINGS & ALL OTHER RELEVANT DRAWINGS & SPECIFICATIONS

ALL LEVELS RELATE TO O.S. DATUM AT MALIN HEAD UNLESS NOTED OTHERWISE