KEY:

- PROPOSED SURFACE WATER - PRIVATE
- PROPOSED FOUL WATER - RIVATE
- PROPOSED TREATED FOUL WATER - PRIVATE
- PROPOSED SURFACE WATER DRAINAGE CHANNEL
- +2.99 EXISTING GROUND LEVELS
- 3.060 PROPOSED GROUND LEVELS
- 1:150 FALL PROPOSED SURFACE FALLS
- PROPOSED TARMAC ROAD CONSTRUCTION
- PROPOSED TARMAC CAR PARK CONSTRUCTION
- PROPOSED TARMAC FOOTPATH CONSTRUCTION
- PROPOSED CONCRETE YARD CONSTRUCTION
- PROPOSED PAVING SLAB CONSTRUCTION
- PROPOSED GRAVEL CONSTRUCTION
- PROPOSED FLOOD EXCEEDANCE ROUTE

N

PROPOSED CONVEYANCE SWALE 01
TOP OF BANK LEVEL = 2.900
BED LEVEL = 2.600
BASIN SIDE SLOPES 1:3

HW100
IL: 2.600

150⌀ @ 1:150

225⌀ @ 1:166

HW101
IL: 2.465

SW01
CL: 3.040
IL: 2.515

PROPOSED WET SWALE 02
TOP OF BANK LEVEL = 2.800
WATER LEVEL = 2.465
BED LEVEL = 2.315
BASIN SIDE SLOPES 1:3

HW102
IL: 2.465

ACO MultiDrain MD150D
185mm DEEP, D400 COVER

FW02
CL: 3.450
IL: 2.460

SW02
CL: 3.250
IL: 2.575

SW11
CL: 3.450
IL: 2.710

SW10
CL: 3.450
IL: 2.810

FW03
CL: 3.400
IL: 2.225

RE10
CL: 3.240
IL: 2.760

RE01
CL: 3.250
IL: 2.625

FW01
CL: 3.240
IL: 2.600

HW111
IL: 2.550

HW110
IL: 2.550

SW12
CL: 3.240
IL: 2.655

RE11
CL: 3.240
IL: 2.755

HW112
IL: 2.550

SW13
CL: 3.240
IL: 2.655

RE12
CL: 3.240
IL: 2.635

HW113
IL: 2.550

SW14
CL: 3.240
IL: 2.535

HW114
IL: 2.480

HW115
IL: 2.480

HW116
IL: 2.435

HW117
IL: 2.435

PROPOSED WET SWALE 04
TOP OF BANK LEVEL = 3.000
WATER LEVEL = 2.550
BED LEVEL = 2.400
BASIN SIDE SLOPES 1:3

PROPOSED WET SWALE 05
TOP OF BANK LEVEL = 3.000
WATER LEVEL = 2.480
BED LEVEL = 2.330
BASIN SIDE SLOPES 1:3

PROPOSED CONVEYANCE SWALE 10
TOP OF BANK LEVEL = 2.800
BED LEVEL = 1.900
BASIN SIDE SLOPES 1:3
APPROX. STORAGE 70m³

DOMESTIC FOUL WATER TREATMENT PLANT
Ensign:Standard 16PE O.S.A.
CL: 3.150 (SEATING RINGS REQUIRED)
INLET IL: 1.975 (100⌀)
OUTLET IL: 1.895 (100⌀)

HW10 - ALTHON
H3C HEADWALL
PIPE IL: 1.615

TFW10
CL: 3.150
IL: 1.865

POTENTIAL INTEGRAL PUMP REQUIRED WITHIN TREATMENT PLANT SUBJECT TO SURVEY OF WATERCOURSE AND SURCHARGED WATER LEVELS

HW02 - ALTHON
SWALE-150
PIPE IL: 1.900

HW01 - ACO SuDS
SWALE INLET
PIPE IL: 2.000

HW03 - ALTHON
H3C HEADWALL
PIPE IL: 1.750

TFW03
CL: 2.800
IL: 1.875

TFW02
CL: 3.115
IL: 2.025

TFW01
CL: 3.195
IL: 2.385

INTERNAL TREATED FOUL WATER COLLECTION CHAMBER

DISCHARGE INTO HIGHWAY/RIPARIAN DRAIN:
FULLY TREATED PROCESS DISCHARGE
AVERAGE 100m³ / 24 HOURS = 1.16 L/S
PEAK 10m³ / HOUR = 2.78 L/S
DISCHARGE QUALITY DATA:
CHEMICAL OXYGEN DEMAND (COD) <1500mg/L
TOTAL SUSPENDED SOLIDS (TSS) <300mg/L

PROPOSED OFFICE
FFL 3.600

PROPOSED FACTORY
FFL 3.400

E 526348.450
N 377270.578
EL 3.340

ditch

Close Board Fence

Post and wire fence

Arable

Staff Room

Office

Reception

Meeting

Workshop

Changing

Drum dryer

0 2.5 5 7.5 10 15 20 25m
1:250

REV.	DESCRIPTION	DRN.	APP.	DATE
B	MINOR DRAWING AMENDMENTS.	MP	APW	08.09.22
A	DRAWING GENERALLY DEVELOPED.	MP	APW	07.09.22
–	PRELIMINARY – FOR APPROVAL	MP	APW	MAR. 22

SHIELDS WILSON
e: info@shieldswilson.co.uk t: 01775 729252
STRUCTURAL AND CIVIL ENGINEERING

STATUS: FOR INFORMATION

CLIENT: NAYLORS NUTRITION

PROJECT: PROPOSED FACTORY PROJECT
ON LAND OFF RANGELL GATE,
LOW FULNEY, SPALDING, LINCS.

TITLE: PROPOSED DRAINAGE ARRANGEMENT
(SHEET 1 OF 2)

DATE	MAR. '22	SCALE @A1 1:250	DRAWING NO. SW 21-193-10	REV. B
DRAWN	MP			

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