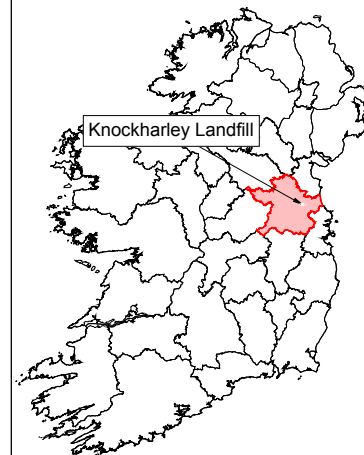


Drawing List					
Drawing Number	Drawing Title	Scale	Size	Drawing Pack	
LW14-821-01-P-0000-LIST	DRAWING LIST	n/a	n/a	Planning	
LW14-821-01-P-0000-BDY	OWNERSHIP BOUNDARY LAYOUT	1:7,500	A3	Planning	
LW14-821-01-P-0000-000	1:50,000 SITE LOCATION MAP	1:50,000	A3	Planning	
LW14-821-01-P-0000-001	1:10,000 SITE LOCATION MAP	1:10,000	A3	Planning	
LW14-821-01-P-0000-002	EXISTING SITE LAYOUT	1:3,750	A1	Planning	
LW14-821-01-P-0000-003	PROPOSED SITE LAYOUT PLAN	1:3,750	A1	Planning	
LW14-821-01-P-0000-004	PROPOSED SITE LAYOUT PLAN SHEET 1 OF 8	1:1,000	A1	Planning	
LW14-821-01-P-0000-005	PROPOSED SITE LAYOUT PLAN SHEET 2 OF 8	1:1,000	A1	Planning	
LW14-821-01-P-0000-006	PROPOSED SITE LAYOUT PLAN SHEET 3 OF 8	1:1,000	A1	Planning	
LW14-821-01-P-0000-007	PROPOSED SITE LAYOUT PLAN SHEET 4 OF 8	1:1,000	A1	Planning	
LW14-821-01-P-0000-008	PROPOSED SITE LAYOUT PLAN SHEET 5 OF 8	1:1,000	A1	Planning	
LW14-821-01-P-0000-009	PROPOSED SITE LAYOUT PLAN SHEET 6 OF 8	1:1,000	A1	Planning	
LW14-821-01-P-0000-010	PROPOSED SITE LAYOUT PLAN SHEET 7 OF 8	1:1,000	A1	Planning	
LW14-821-01-P-0000-011	PROPOSED SITE LAYOUT PLAN SHEET 8 OF 8	1:1,000	A1	Planning	
LW14-821-01-P-0000-012	ASSESSMENT OF ALTERNATIVES	1:3,750	A1	EIA/R	
LW14-821-01-P-0000-013	PLAN SHOWING PROPOSED INFRASTRUCTURE WORK	1:1,000	A1	Planning	
LW14-821-01-P-0050-001	EXISTING MONITORING LOCATIONS	1:3,750	A1	EIA/R	
LW14-821-01-P-0050-002	PROPOSED ENVIRONMENTAL MONITORING LOCATIONS	1:3,750	A1	EIA/R	
LW14-821-01-P-0050-003	EXISTING FORESTATION PROPOSED FELLING & NEW PLANTING	1:3,750	A1	EIA/R	
LW14-821-01-P-0050-004	EXISTING SITE LAYOUT WITH INFRASTRUCTURE LOCATIONS	1:3,750	A1	EIA/R	
LW14-821-01-P-0050-005	PROPOSED SITE LAYOUT PLAN WITH INFRASTRUCTURE LOCATIONS	1:3,750	A1	EIA/R	
LW14-821-01-P-0050-006	PROPOSED IBA FACILITY BUILDING LOCATION AND CROSS SECTION	1:500	A1	Planning	
LW14-821-01-P-0050-007	TRAFFIC MANAGEMENT IBA FACILITY	1:1000	A1	EIA/R	
LW14-821-01-P-0050-008	TRAFFIC MANAGEMENT BIOLOGICAL TREATMENT FACILITY	1:500	A1	EIA/R	
LW14-821-01-P-0050-009	TRAFFIC MANAGEMENT LEACHATE MANAGEMENT FACILITY	1:500	A1	EIA/R	
LW14-821-01-P-0050-010	PROPOSED CELL FILLING	1:2,500	A1	Planning & EIA/R	
LW14-821-01-P-0050-011	CUT/FILL PHASING PLAN	1:7,500	A1	Planning & EIA/R	
LW14-821-01-P-0050-012	LANDSCAPE PLAN	1:5,000	A1	Planning & EIA/R	
LW14-821-01-P-0103-001	PROPOSED SITE CROSS SECTIONS	1:1000	A1	Planning	
LW14-821-01-P-0103-002	PROPOSED SITE CROSS SECTIONS	1:1000	A1	Planning	
LW14-821-01-P-0103-003	PROPOSED SITE CROSS SECTIONS	1:200	A1	Planning	
LW14-821-01-P-0103-004	PROPOSED CROSS SECTIONS OF POND AND LEACHATE LAGOONS	1:200	A1	Planning	
LW14-821-01-P-0500-001	PROPOSED MANAGEMENT PLAN OF SURFACE WATER MANAGEMENT INFRASTRUCTURE	1:1000	A1	Planning	
LW14-821-01-P-0500-002	SURFACE WATER MANAGEMENT INFRASTRUCTURE LAYOUT PLANS	1:200	A1	Planning & EIA/R	
LW14-821-01-P-0500-003	PROPOSED SURFACE WATER INFRASTRUCTURE CROSS SECTIONS	1:1000	A1	Planning	
LW14-821-01-P-0500-004	LAMP STANDARD, GAS EXTRACTION AND SWALE INLET DETAILS	Vary	A1	Planning	
LW14-821-01-P-0500-005	DETAILS OF SILT FENCE	1:20	A1	Planning	
LW14-821-01-P-0500-006	SITE LAYOUT WITH EXISTING STREAM STRUCTURES	1:5000	A1	Planning	
LW14-821-01-P-0600-001	PROPOSED LEACHATE MANAGEMENT FACILITY	1:500	A1	Planning	
LW14-821-01-P-0600-002	TANK FARM AND LEACHATE TREATMENT EQUIPMENT ELEVATIONS	1:200	A1	Planning	
LW14-821-01-P-0600-003	TANK FARM AND LEACHATE TREATMENT EQUIPMENT PLAN	1:200	A1	Planning	
LW14-821-01-P-0600-004	CROSS SECTIONS THROUGH FLOATING COVER LAGOONS	1:500	A1	Planning	
LW14-821-01-P-0600-005	PROPOSED WHEEL WASH DETAILS	1:50	A1	Planning	
LW14-821-01-P-1700-000	OVERVIEW OF BIOLOGICAL TREATMENT FACILITY AND IBA FACILITY BUILDING	n/a	A1	Planning	
LW14-821-01-P-1700-001	SITE LAYOUT PLAN OF PROPOSED BIOLOGICAL TREATMENT FACILITY	1:500	A1	Planning	
LW14-821-01-P-1700-002	PROPOSED BIOLOGICAL TREATMENT FACILITY GROUND FLOOR PLAN	1:200	A1	Planning	
LW14-821-01-P-1700-003	PROPOSED BIOLOGICAL TREATMENT FACILITY FIRST FLOOR PLAN	1:200	A1	Planning	
LW14-821-01-P-1700-004	PROPOSED BIOLOGICAL TREATMENT FACILITY ROOF PLAN	1:200	A1	Planning	
LW14-821-01-P-1700-005	PROPOSED BIOLOGICAL TREATMENT FACILITY CROSS SECTIONS	1:200	A1	Planning	
LW14-821-01-P-1700-006	PROPOSED BIOLOGICAL TREATMENT FACILITY ELEVATIONS	1:200	A1	Planning	
LW14-821-01-P-1700-007	DETAILS OF FULL RETENTION OIL INTERCEPTOR	1:25	A1	Planning	
LW14-821-01-P-1700-008	PROPOSED BIOLOGICAL TREATMENT FACILITY LEACHATE & SEPTIC TANK DETAILS	1:50	A1	Planning	
LW14-821-01-P-1700-010	ESB MV SUBSTATION DETAILS	1:50	A1	Planning	
LW14-821-01-P-1700-021	PROPOSED IBA FACILITY BUILDING FLOOR PLAN	1:200	A1	Planning	
LW14-821-01-P-1700-022	PROPOSED IBA FACILITY BUILDING ROOF PLAN	1:200	A1	Planning	
LW14-821-01-P-1700-023	PROPOSED IBA FACILITY BUILDING SECTION AND ELEVATIONS	1:200	A1	Planning	



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!



Rev. A SK CKD CJC BG Cork 10.07.18 Issue For Planning Application

Revision History: Description, Date, Rev. Origin

Name of Client: EIA/R

Name of Job: KNOCKHARLEY LANDFILL LTD.

Title of Drawing: PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Drawing Title: DRAWING LIST

Scales Used: 1:50000. This Drawing was printed to A3.

Dwg. No.: LW14-821-01-P-0000-LIST. Rev.: A

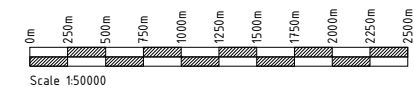
Project Reference: D:\ACAD\2014\LW14-821\01\PLANNING APPLICATION\LW14-821-01-P-0000-LIST

FEHILY TIMONEY & COMPANY CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

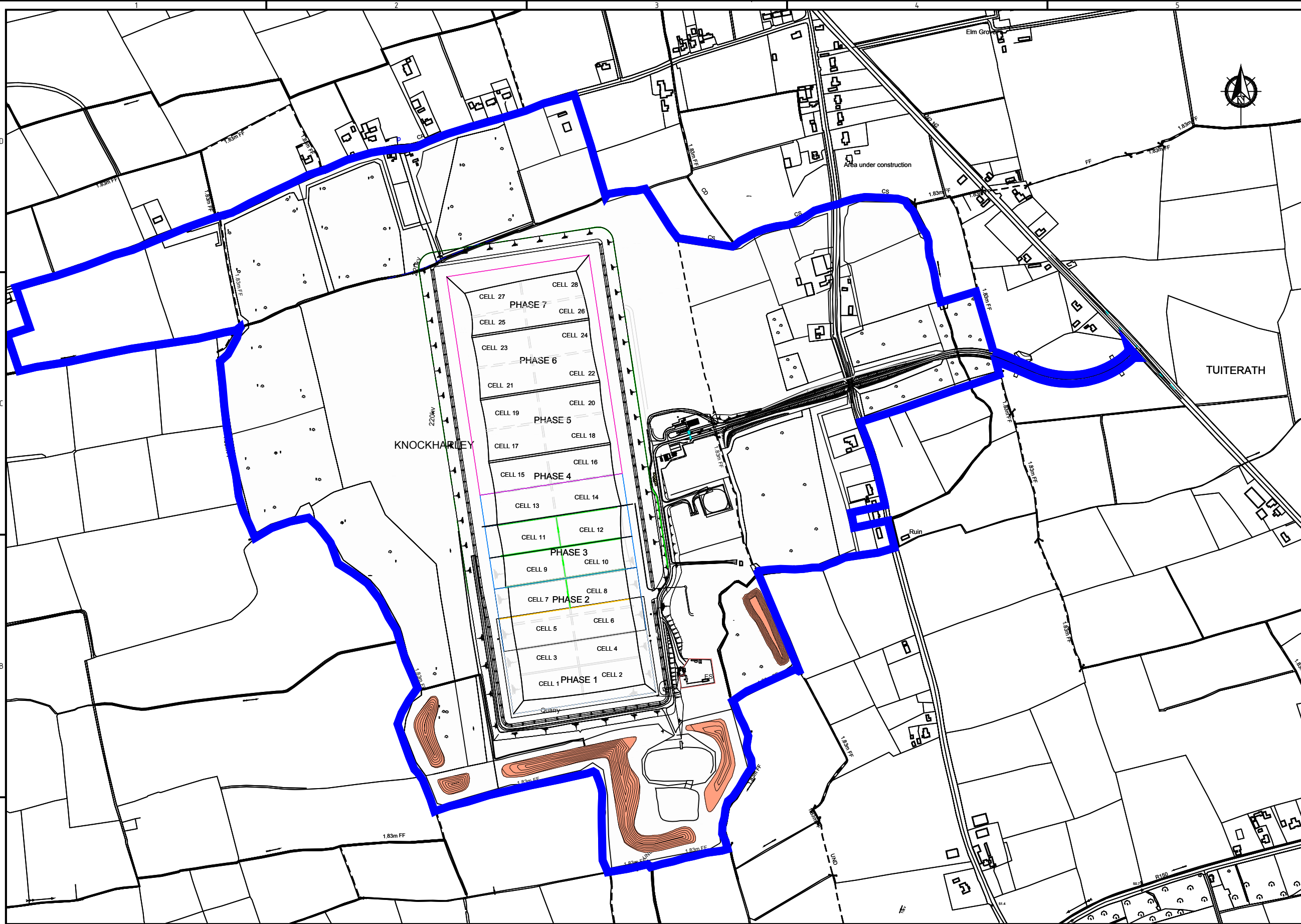
W: www.fehilytimoney.ie, E: info@ftco.ie

Core House, Pouladuff Rd, Cork, Ireland.
T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
T: +353-1-6583300, F: +353-1-6583301



When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

Ownership Boundary

SCALE - VERTICAL



SCALE - HORIZ



Rev.	Drawn	Chkd	Appd	Rev Origin	Date	Description
A	SK	CIC	BG	Cork	10.07.18	Issue For Planning Application

Revision History						
Name of Client						
KNOCKHARLEY LANDFILL LTD.						

Name of Job						
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL						

Title of Drawing						
OWNERSHIP BOUNDARY LAYOUT						

Scale Used	This Drawing was printed to
1:7500	A3

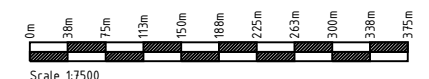
Dwg. No.	Rev.
LW14-821-01-P-0000-BDY	A

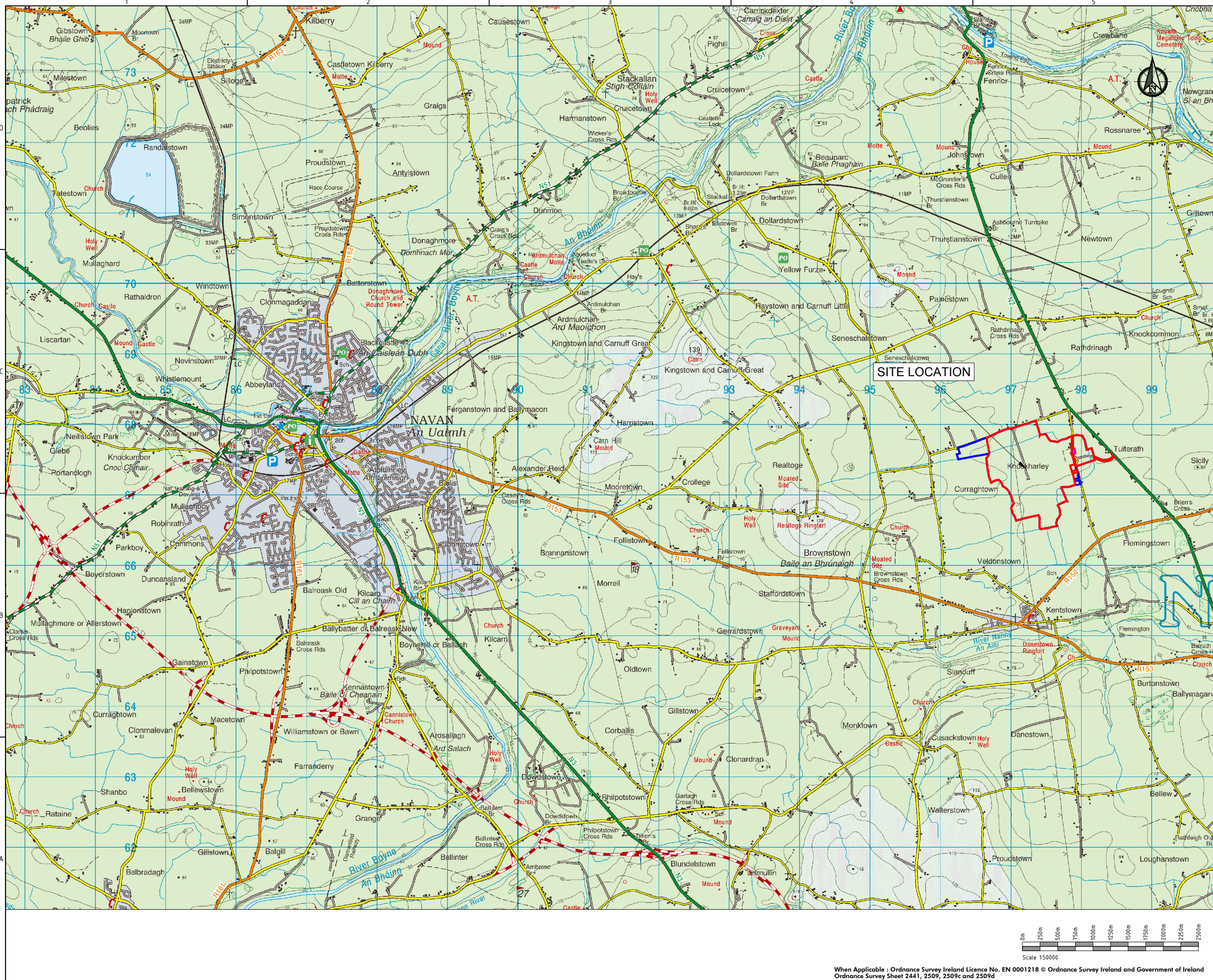
**CONSULTANTS IN
ENGINEERING &
ENVIRONMENTAL
SCIENCES**

**FEHILY
TIMONEY
& COMPANY**

W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park,
 North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501



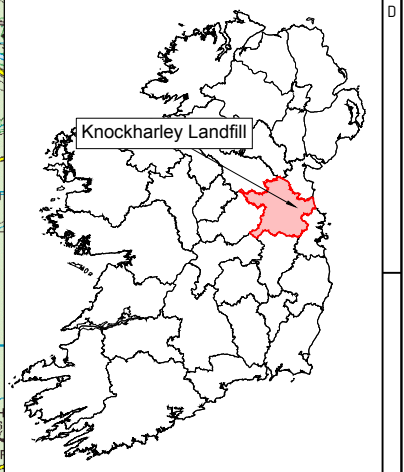


NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Feihly Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

	Planning Boundary
	Areas Within Planning Boundary, Not Within Application Site
	Ownership Boundary



Rev.	Drawn	Checked	App'd	Rev. Origin	Date	Description
A	SK	CKC	CKC	Cork	10.07.18	Issue For Planning Application
Revision History						
Name of Client						

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

1:50,000 SITE LOCATION MAP

Scales Used
1:50000

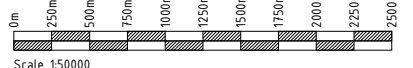
Dwg. No.
LW14-821-01-P-0000-000

Rev.
A

**FEIHLY
TIMONEY
& COMPANY**

W: www.feihlytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

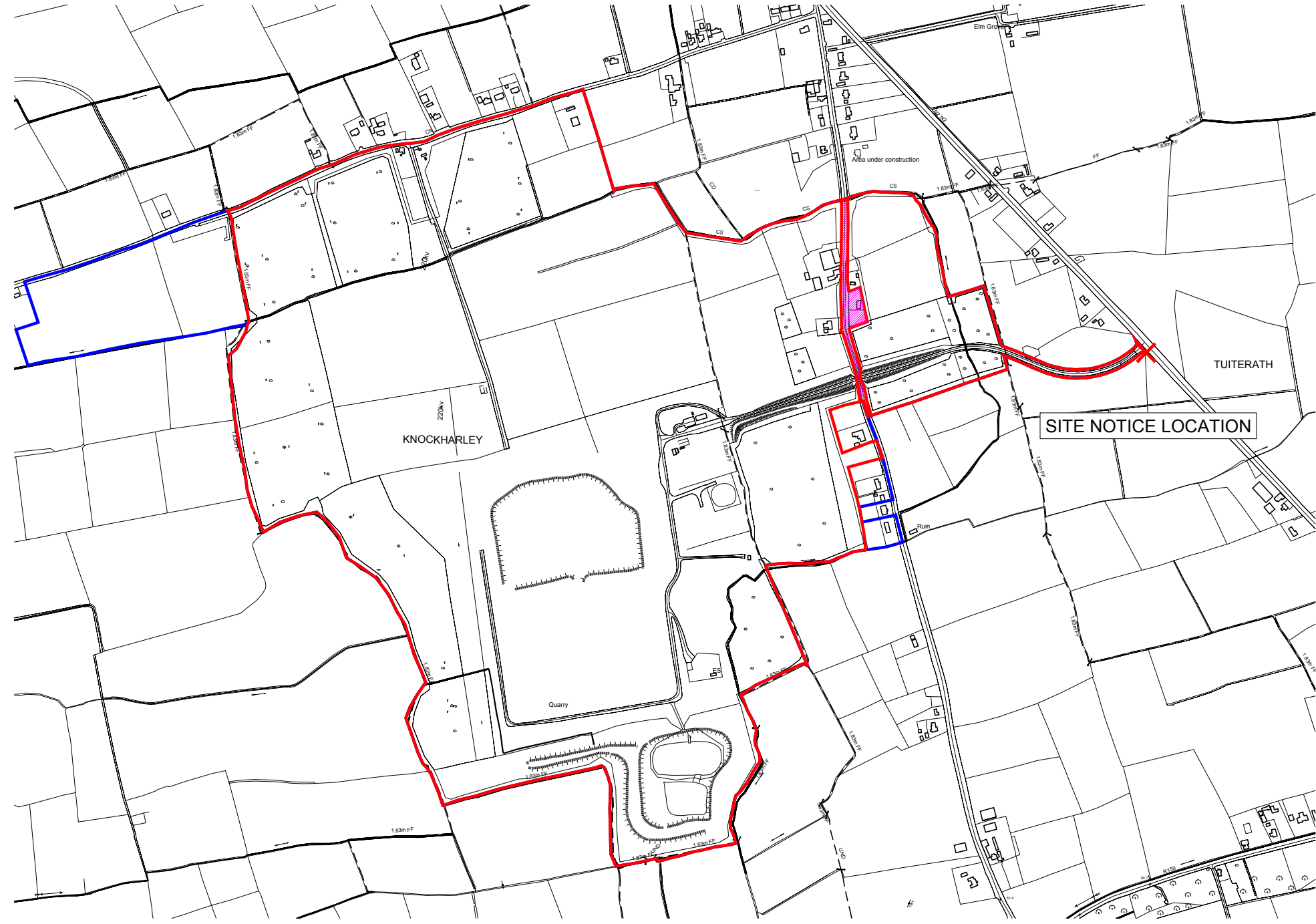
J5 Plaza, North Park Business Park,
 North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501



When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland
 Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

SCALE - VERTICAL



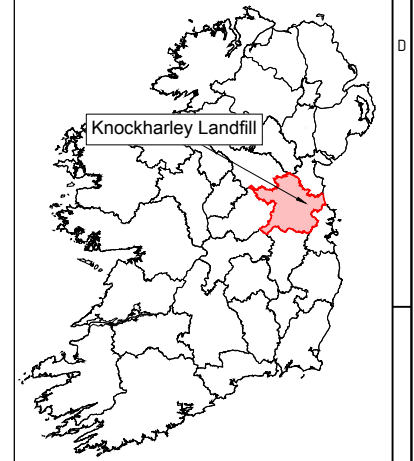


NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fahily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

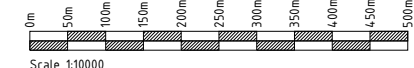
	Planning Boundary
	Areas Within Planning Boundary, Not Within Application Site
	Ownership Boundary



SCALE - VERTICAL



A



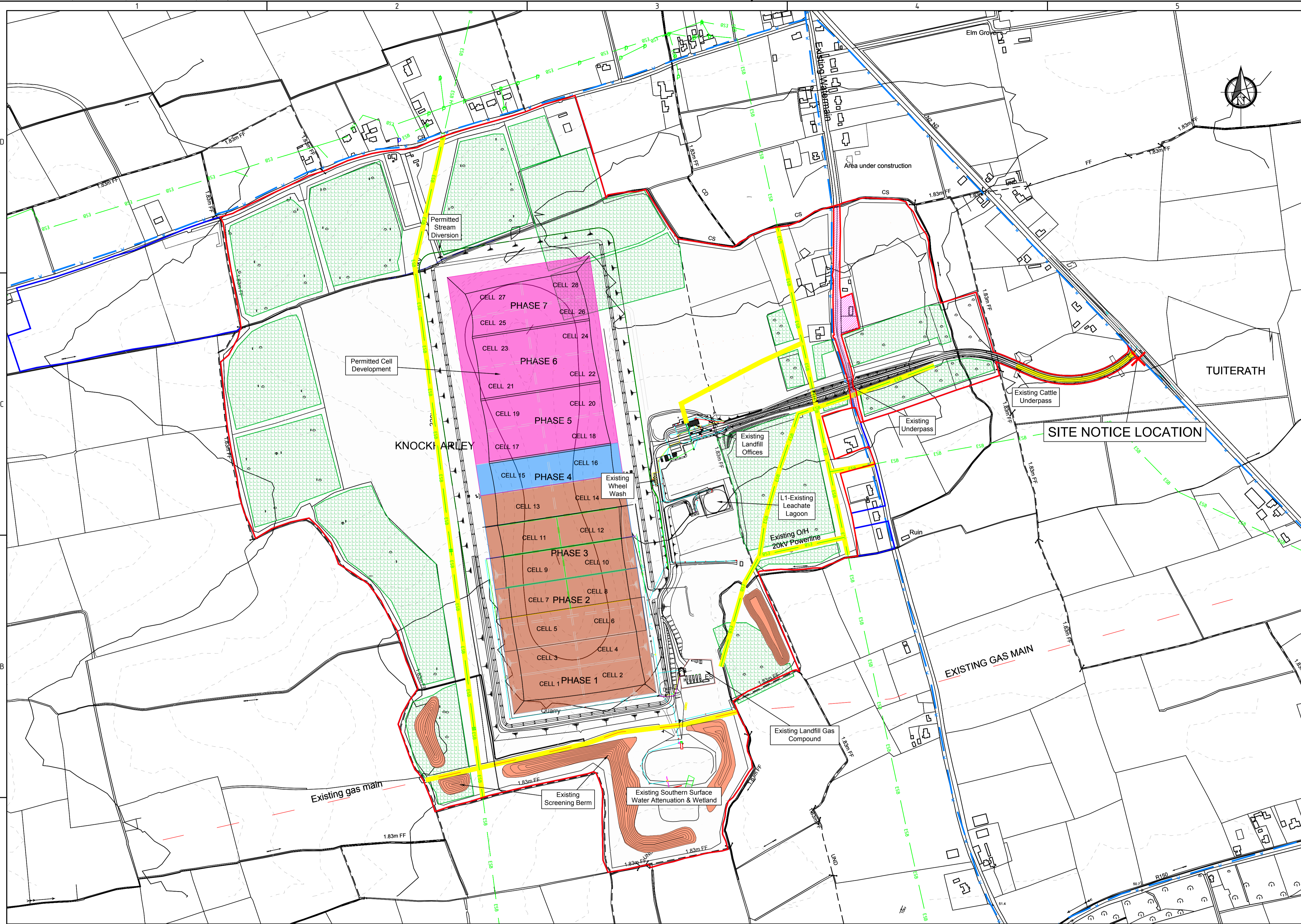
When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland
Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Drawn	SK	CHK'd	CJC	App'd	BC	Cork	10.07.18	Issue For Planning Application
Revision History		A		EIA					
Name of Client									
KNOCKHARLEY LANDFILL LTD.									
Name of Job									
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL									
Title of Drawing									
1:10,000 SITE LOCATION MAP									
Scales Used								This Drawing was printed to	
1:10000								A3-	
Dwg. No.								Rev.	
LW14-821-01-P-0000-001								A	

FEHILY TIMONEY & COMPANY
CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

W: www.fehilytimoney.ie, E: info@ftco.ie
Core House, Pouladuff Rd, Cork, Ireland.
T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
T: +353-1-6583500, F: +353-1-6583501



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

- LEGEND**
- Planning Boundary
 - Areas Within Planning Boundary, Not Within Application Site
 - Ownership Boundary Refer to dwg P-0000-BDY For Clarity
 - Existing Wayleave
 - Ground Contours
 - Existing Watercourse
 - Landfill Cells currently being filled (2017/18)
 - Constructed Landfill Cells
 - Existing Forested Areas
 - Permitted Landfill Cells, To Be Constructed
 - Existing Berm

- EXISTING SERVICES LEGEND**
- ESB Power lines
 - Water Supply Pipes
 - Storm Sewer
 - Telemetry & Power
 - Leachate Rising Main
 - Groundwater Drainage
 - Leachate Collection

Rev.	Drawn	SK	CHK'd	CIC	App'd	Rev Origin	Date	Description
A						Cork	10.07.18	Issue For Planning Application

Revision History A **EIAR**

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
EXISTING SITE LAYOUT

Scales Used
1:3750

Dwg. No.
LW14-821-01-P-0000-002

Rev.
A

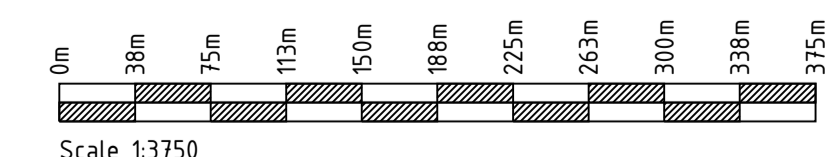
FEHILY TIMONEY & COMPANY
CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

W: www.fehilytimoney.ie, E: info@ftco.ie

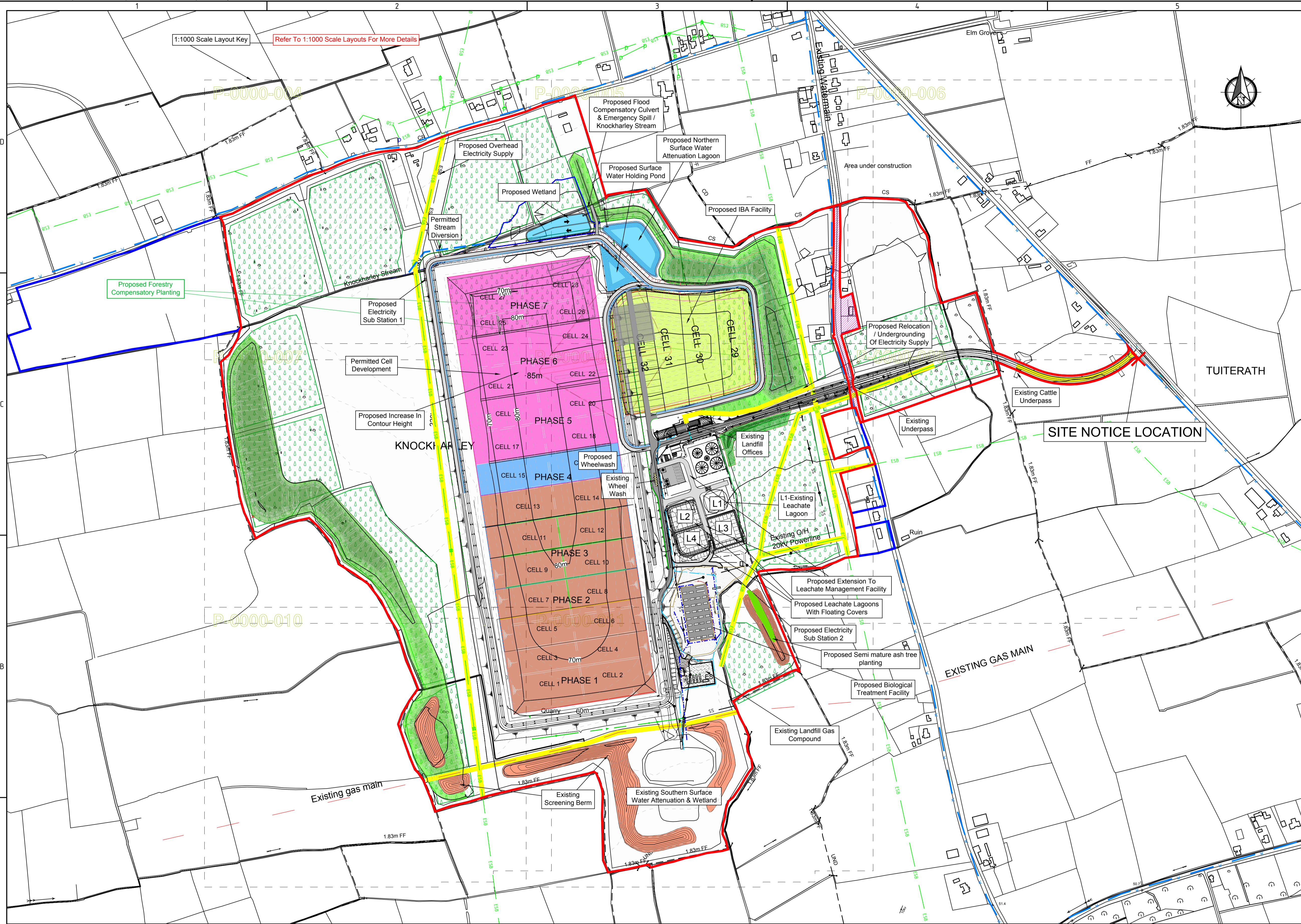
Core House, Pouladuff Rd, Cork, Ireland.
T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
T: +353-1-6583500, F: +353-1-6583501

Refer To Existing Infrastructure References On Drawing P-0050-004



1:1000 Scale Layout Key Refer To 1:1000 Scale Layouts For More Details



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA
- IBA, Cell 33 (Outline Only Shown For Clarity)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer

Rev.	Drawn	SK	CHKD	CIC	App'd	Rev Origin	Rev Date	Description
A						Cork	10.07.18	Issue For Planning Application

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
PROPOSED SITE LAYOUT PLAN

Scales Used
1:3750

Dwg. No.
LW14-821-01-P-0000-003

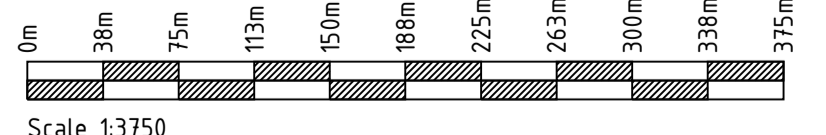
Rev.
A

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY






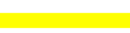


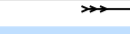
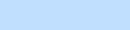
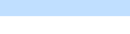






W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501










NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!






LEGEND

-  Planning Boundary
-  Areas Within Planning Boundary, Not Within Application Site
-  Ownership Boundary
-  Refer to dwg P-0000-BDY For Clarity
-  Existing Wayleave
-  Ground Contours
-  Existing Watercourse
-  Landfill Cells currently being filled (2017/18)
-  Constructed Landfill Cells
-  Final Forested Areas
-  Permitted Landfill Cells, To Be Constructed
-  Proposed IBA Facility
-  IBA
-  IBA, Cell 33 (Outline Only Shown For Clarity)
-  Proposed Screening Berms with New Replanting
-  Proposed Stream Diversion
-  Existing Berm

EXISTING SERVICES LEGEND

-  ESB Power lines
-  Water Supply Pipes
-  Storm Sewer
-  Telemetry & Power
-  Leachate Rising Main
-  Groundwater Drainage
-  Leachate Collection

PROPOSED SERVICES LEGEND

-  Power, Telemetry & Gas
-  Leachate Collection
-  Surface Water Drain
-  Water Supply
-  Foul Sewer

Rev.	Drawn	SK	C/C	Cork	10.07.18	Issue For Planning Application
------	-------	----	-----	------	----------	--------------------------------

Rev.	App'd	Rev Origin	Date	Description
------	-------	------------	------	-------------

Revision History		EAIR
------------------	--	------

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN
SHEET 1 OF 8

Scale Used

1:1000

Dwg. No.

LW14-821-01-P-0000-004

Rev.

A

This Drawing was printed to A1.

Scale 1:1000

When Applicable - Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland

Scale 1:1000

Scale 1:1000

Scale 1:1000

Scale 1:1000

Scale 1:1000

Scale 1:1000

Scale 1:1000

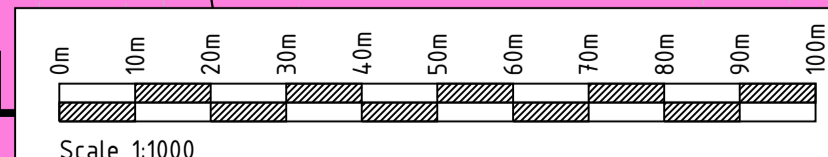
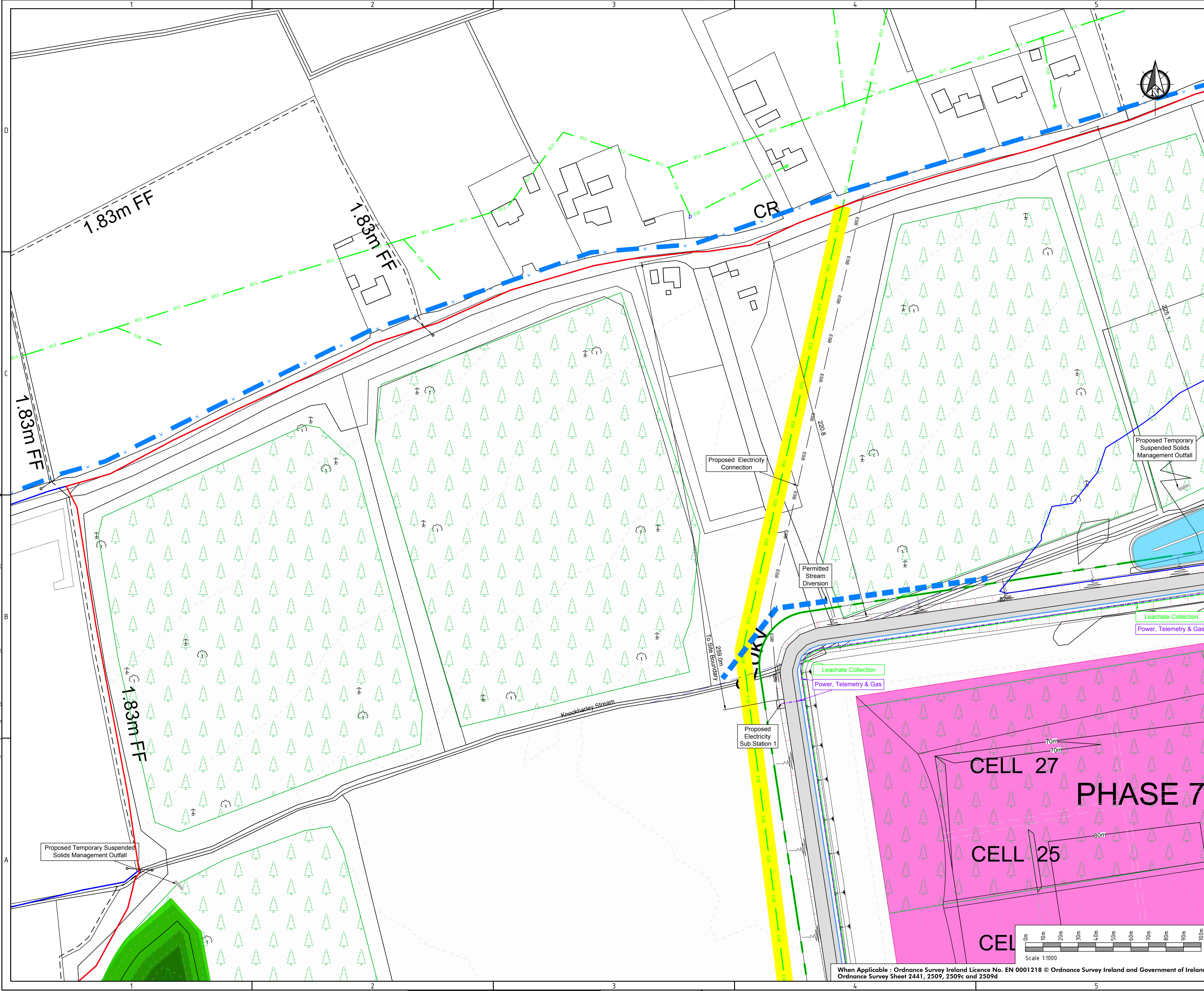
Scale 1:1000

Scale 1:1000

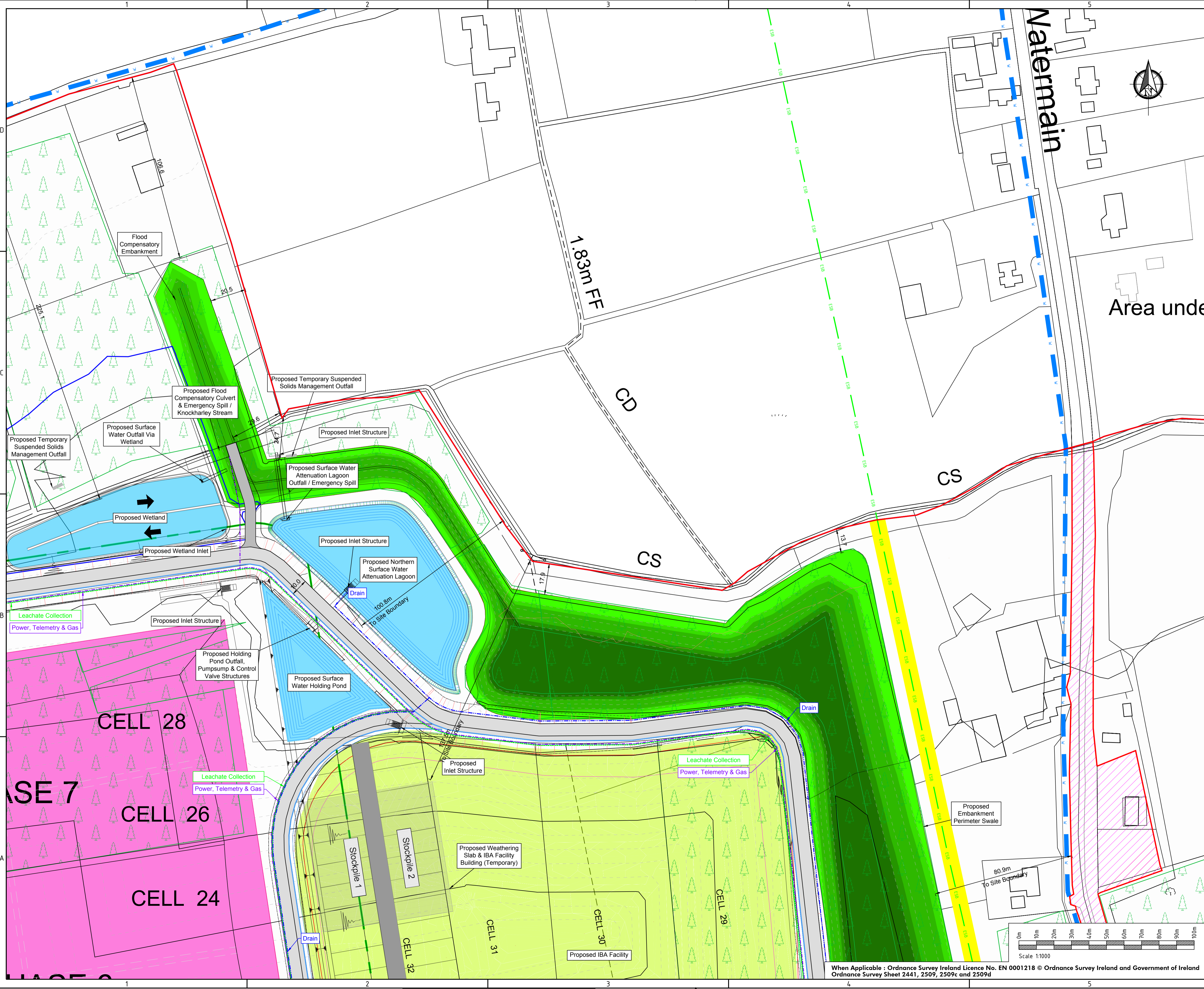
Scale 1:1000

Scale 1:1000

Scale 1:1000



When Applicable - Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary
- Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA
- IBA, Cell 33 (Outline Only Shown For Clarity)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer

Rev.	Drawn	SK	CHKD	CIC	App'd	Rev Origin	Date	Description
Revision History A								
Name of Client								
KNOCKHARLEY LANDFILL LTD.								
Name of Job								
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL								
Title of Drawing								
PROPOSED SITE LAYOUT PLAN SHEET 2 OF 8								

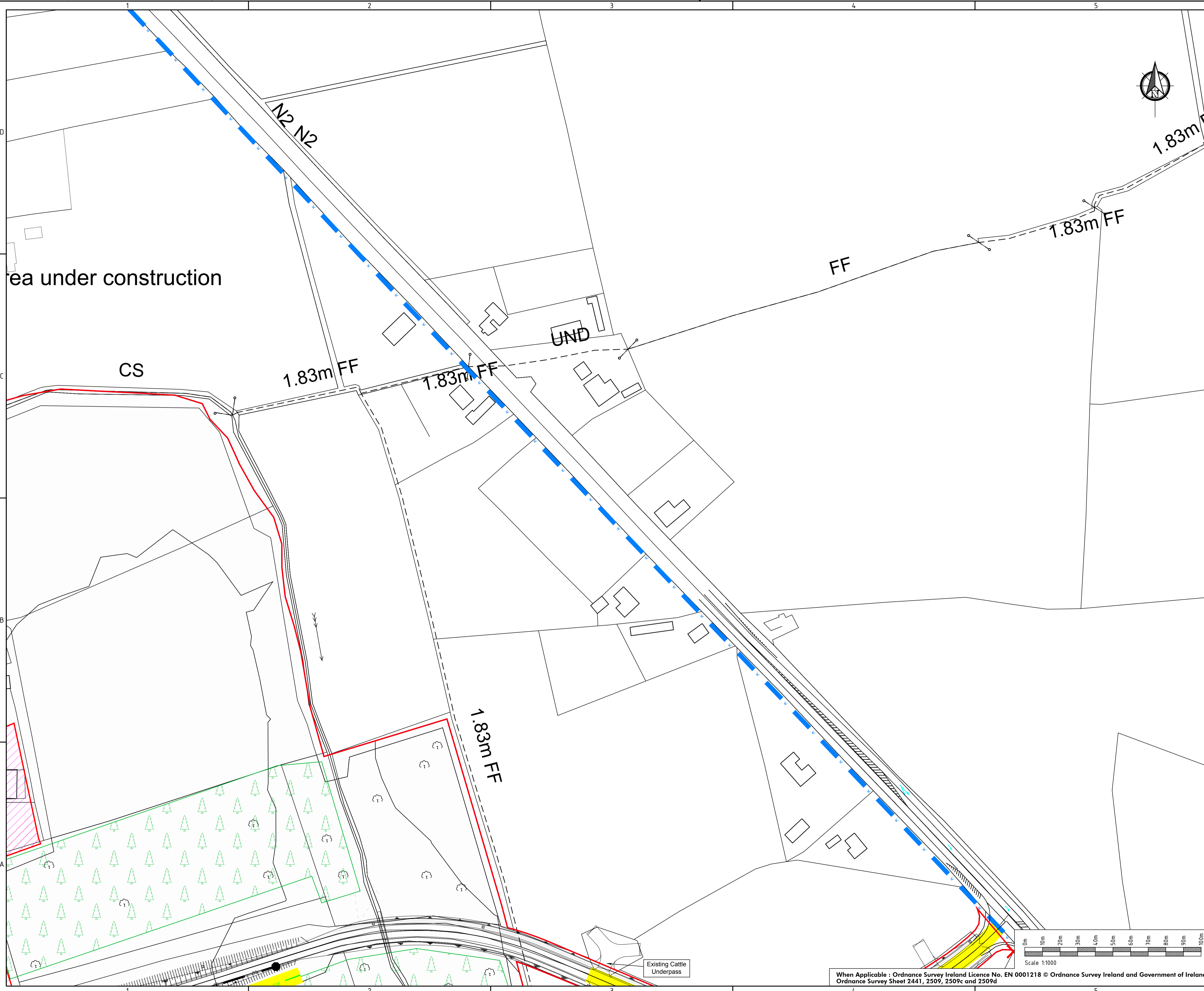
Scale Used	This Drawing was printed to
1:1000	A1.
Dwg. No.	Rev.
LW14-821-01-P-0000-005	A

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6683500, F: +353-1-6683501



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

- LEGEND**
- Planning Boundary
 - Areas Within Planning Boundary, Not Within Application Site
 - Ownership Boundary
 - Existing Wayleave
 - Ground Contours
 - Existing Watercourse
 - Landfill Cells currently being filled (2017/18)
 - Constructed Landfill Cells
 - Final Forested Areas
 - Permitted Landfill Cells, To Be Constructed
 - Proposed IBA Facility
 - Proposed Screening Berms with New Replanting
 - Proposed Stream Diversion
 - Existing Berm

- EXISTING SERVICES LEGEND**
- ESB Power lines
 - Water Supply Pipes
 - Storm Sewer
 - Telemetry & Power
 - Leachate Rising Main
 - Groundwater Drainage
 - Leachate Collection

- PROPOSED SERVICES LEGEND**
- Power, Telemetry & Gas
 - Leachate Collection
 - Surface Water Drain
 - Water Supply
 - Foul Sewer

A	SK	CG	Cork	10.07.18	Issue For Planning Application
---	----	----	------	----------	--------------------------------

Rev.	Drawn	Chkd	App'd	Rev Origin	Date	Description

Revision History A EIAI

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
PROPOSED SITE LAYOUT PLAN
SHEET 3 OF 8

Scales Used
1:1000

Dwg. No. **LW14-821-01-P-0000-006** Rev. **A**

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

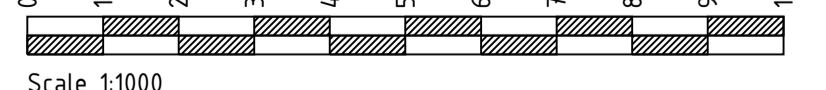
FEHILY TIMONEY & COMPANY

W: www.fehilytimoney.ie, E: info@ftco.ie

Core House, Pouladuff Rd, Cork, Ireland.
T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
T: +353-1-6583500, F: +353-1-6583501

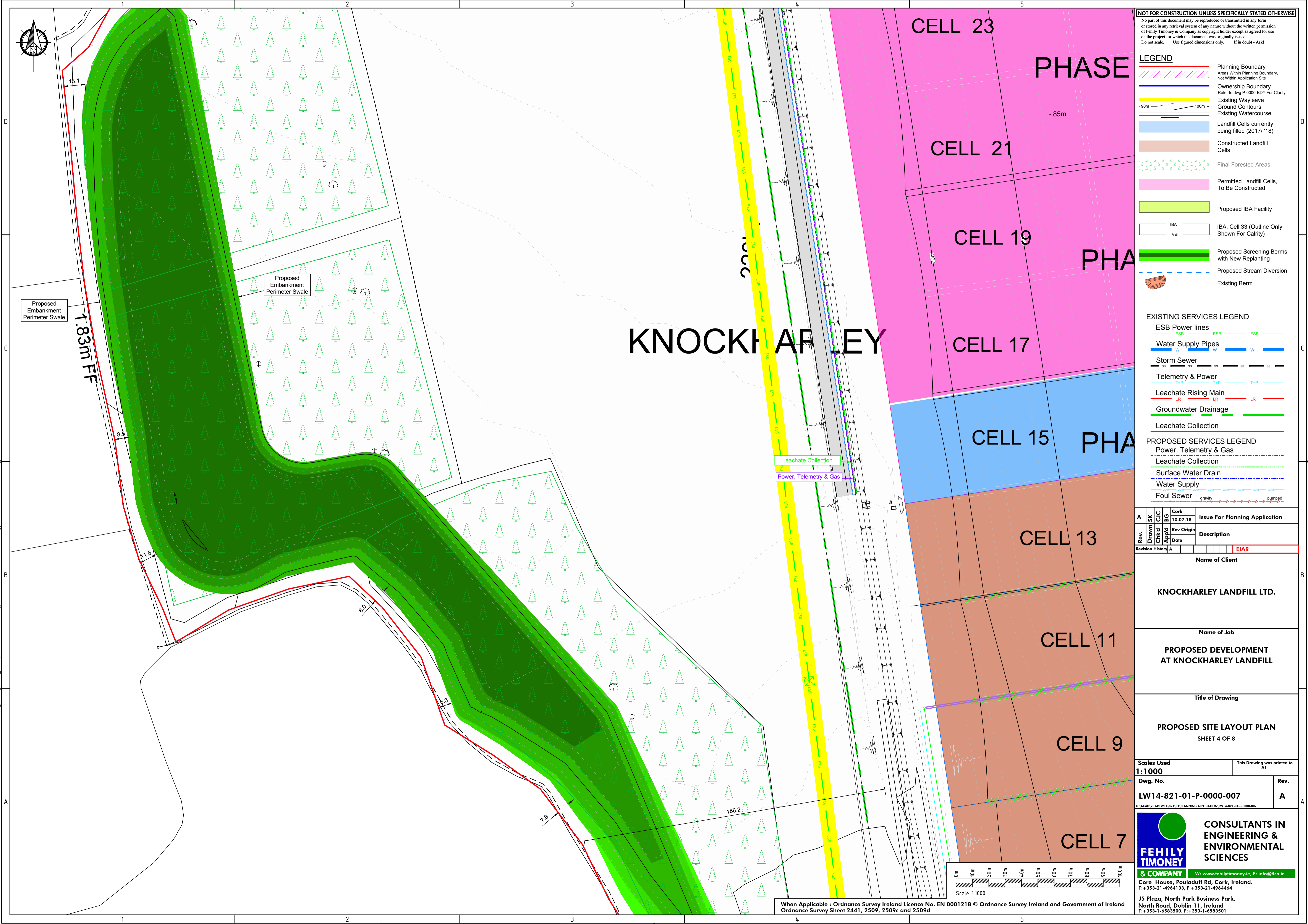
When Applicable: Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland
Ordnance Survey Sheet 2441, 2509, 2509c and 2509d



SCALE - VERTICAL



SCALE HORIZ.



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary
- Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA
- IBA, Cell 33 (Outline Only Shown For Clarity)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

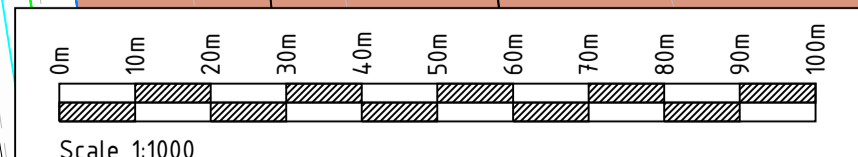
- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer

Drawn	SK	CG	Cork	Issue For Planning Application
Checked	CG	CG	10.07.18	
App'd				
Rev. Date	Rev. Date	Rev. Origin	Description	
Revision History A				
Name of Client				
KNOCKHARLEY LANDFILL LTD.				
Name of Job				
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL				
Title of Drawing				
PROPOSED SITE LAYOUT PLAN SHEET 4 OF 8				

Scales Used	This Drawing was printed to
1:1000	A1.
Dwg. No.	Rev.
LW14-821-01-P-0000-007	A

FEHILY TIMONEY & COMPANY
 CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
 W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501

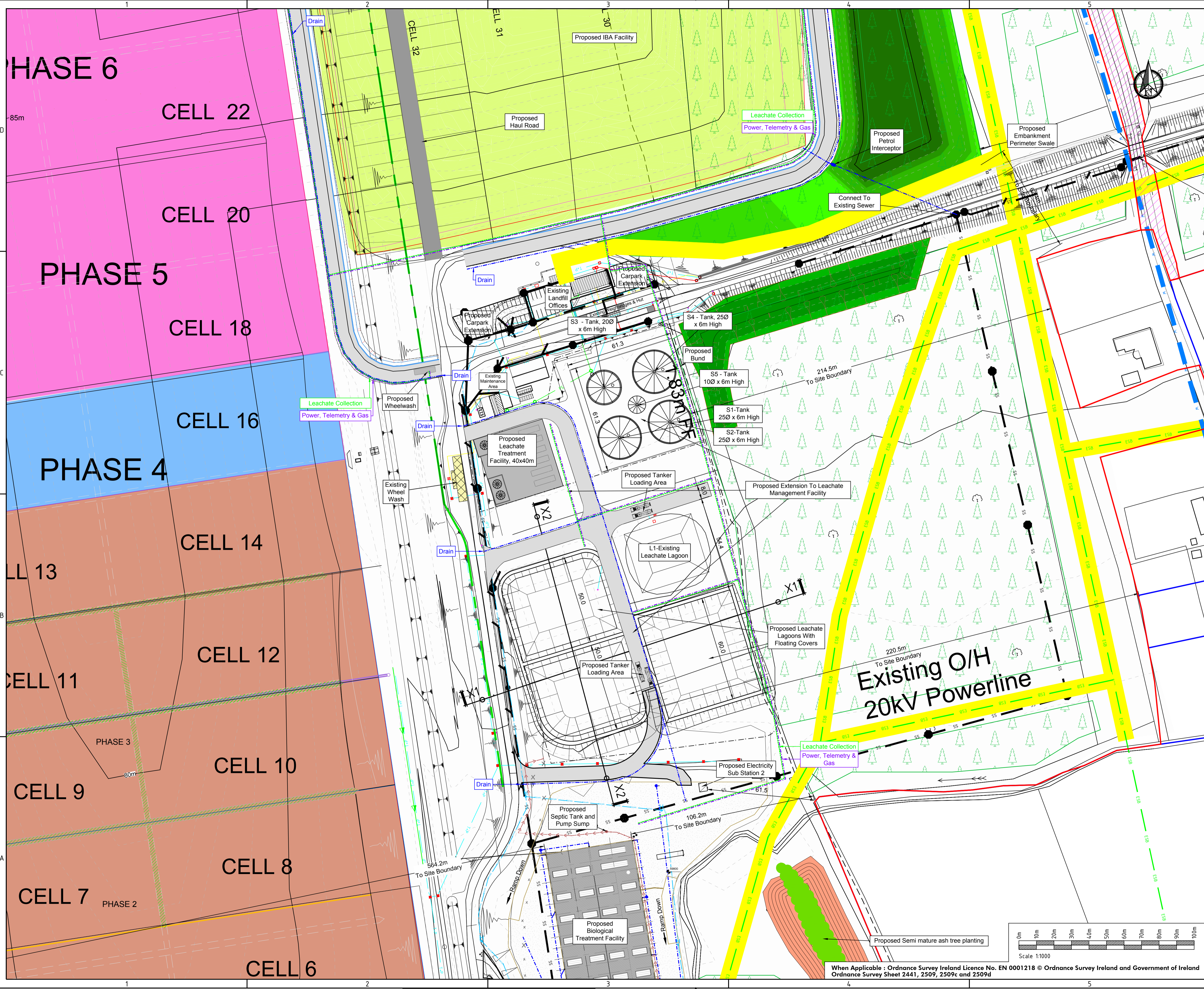
When Applicable - Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland
 Ordnance Survey Sheet 2441, 2509, 2509c and 2509d



SCALE - VERTICAL



SCALE HORIZ



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Feihly Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

- LEGEND**
- Planning Boundary
 - Areas Within Planning Boundary, Not Within Application Site
 - Ownership Boundary
 - Refer to dwg P-0000-BDY For Clarity
 - Existing Wayleave
 - Ground Contours
 - Existing Watercourse
 - Landfill Cells currently being filled (2017/18)
 - Constructed Landfill Cells
 - Final Forested Areas
 - Permitted Landfill Cells, To Be Constructed
 - Proposed IBA Facility
 - IBA
 - IBA Cell 33 (Outline Only Shown For Clarity)
 - Proposed Screening Berms with New Replanting
 - Proposed Stream Diversion
 - Existing Berm

- EXISTING SERVICES LEGEND**
- ESB Power lines
 - Water Supply Pipes
 - Storm Sewer
 - Telemetry & Power
 - Leachate Rising Main
 - Groundwater Drainage
 - Leachate Collection
- PROPOSED SERVICES LEGEND**
- Power, Telemetry & Gas
 - Leachate Collection
 - Surface Water Drain
 - Water Supply
 - Foul Sewer

Rev.	Drawn	SK	CHKD	CIC	App'd	Rev Origin	Date	Description
A						Cork	10.07.18	Issue For Planning Application

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
PROPOSED SITE LAYOUT PLAN

SHEET 5 OF 8

Scales Used
1:1000

Dwg. No.
LW14-821-01-P-0000-008

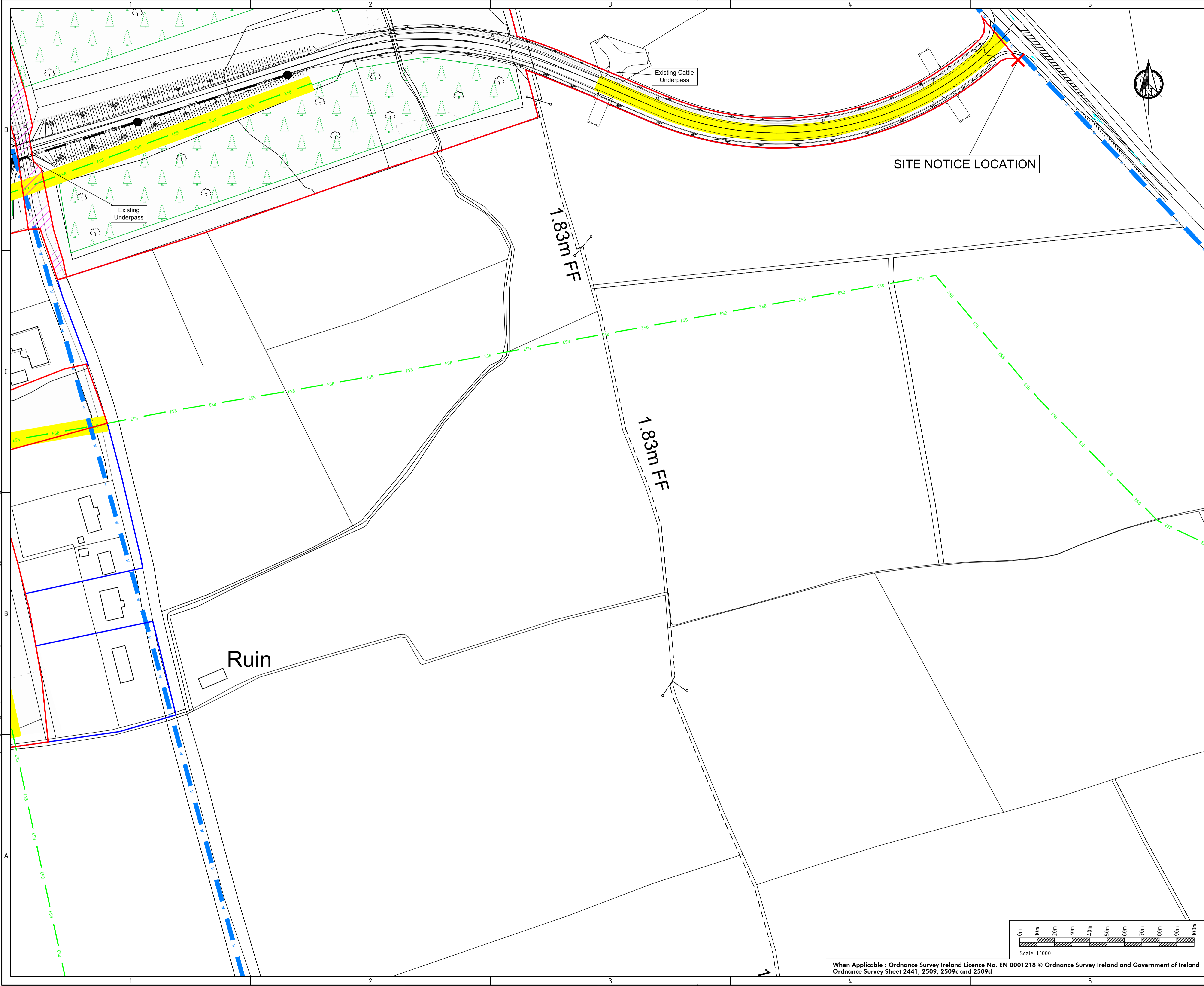
CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEIHLY TIMONEY & COMPANY

W: www.feihlytimoney.ie, E: info@ftco.ie

Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

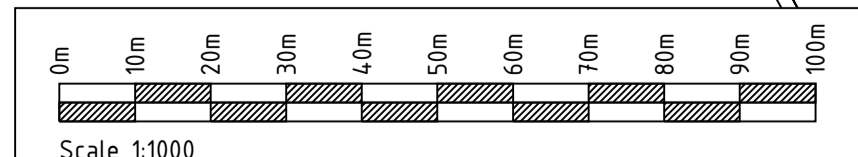
- LEGEND**
- Planning Boundary
 - Areas Within Planning Boundary, Not Within Application Site
 - Ownership Boundary Refer to dwg P-0000-BDY For Clarity
 - Existing Wayleave
 - Ground Contours
 - Existing Watercourse
 - Landfill Cells currently being filled (2017/18)
 - Constructed Landfill Cells
 - Final Forested Areas
 - Permitted Landfill Cells, To Be Constructed
 - Proposed IBA Facility
 - IBA, Cell 33 (Outline Only Shown For Clarity)
 - Proposed Screening Berms with New Replanting
 - Proposed Stream Diversion
 - Existing Berm

- EXISTING SERVICES LEGEND**
- ESB Power lines
 - Water Supply Pipes
 - Storm Sewer
 - Telemetry & Power
 - Leachate Rising Main
 - Groundwater Drainage
 - Leachate Collection
- PROPOSED SERVICES LEGEND**
- Power, Telemetry & Gas
 - Leachate Collection
 - Surface Water Drain
 - Water Supply
 - Foul Sewer gravity pumped

Drawn	SK	C/C	CG	Cork	10.07.18	Issue For Planning Application
Rev.	CHK'd	App'd	Rev Origin	Date	Description	
Revision History A						
Name of Client						
KNOCKHARLEY LANDFILL LTD.						
Name of Job						
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL						
Title of Drawing						
PROPOSED SITE LAYOUT PLAN SHEET 6 OF 8						
Scales Used				This Drawing was printed to A1.		
1:1000						
Dwg. No.						Rev.
LW14-821-01-P-0000-009						A

FEHILY TIMONEY & COMPANY
 CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
 W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.
 T: +353-1-6583500, F: +353-1-6583501

When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland
 Ordnance Survey Sheet 2441, 2509, 2509c and 2509d





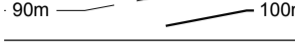

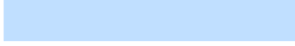











SCALE - VERTICAL








SCALE HORIZ

NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Feihly Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

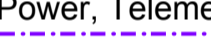
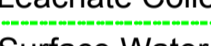
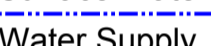


LEGEND

-  Planning Boundary
-  Areas Within Planning Boundary, Not Within Application Site
-  Ownership Boundary Refer to dwg P-0000-BDY For Clarity
-  Existing Wayleave
-  Ground Contours
-  Existing Watercourse
-  Landfill Cells currently being filled (2017/ 18)
-  Constructed Landfill Cells
-  Final Forested Areas
-  Permitted Landfill Cells, To Be Constructed
-  Proposed IBA Facility
-  IBA
-  IBA, Cell 33 (Outline Only Shown For Clarity)
-  Proposed Screening Berms with New Replanting
-  Proposed Stream Diversion
-  Existing Berm

EXISTING SERVICES LEGEND

-  ESB Power lines
-  Water Supply Pipes
-  Storm Sewer
-  Telemetry & Power
-  Leachate Rising Main
-  Groundwater Drainage
-  Leachate Collection

PROPOSED SERVICES LEGEND

-  Power, Telemetry & Gas
-  Leachate Collection
-  Surface Water Drain
-  Water Supply
-  Foul Sewer

Rev.	Drawn	SK	C/C	CG	Cork	10.07.18	Issue For Planning Application
------	-------	----	-----	----	------	----------	--------------------------------

Rev.	Drawn	SK	C/C	CG <th>App'd</th> <th>Rev Origin</th> <th>Date</th> <th>Description</th>	App'd	Rev Origin	Date	Description
1								Issue For Planning Application

Revision History A

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
PROPOSED SITE LAYOUT PLAN
 SHEET 7 OF 8

Scales Used
1:1000

Dwg. No.
LW14-821-01-P-0000-010

Rev.
A

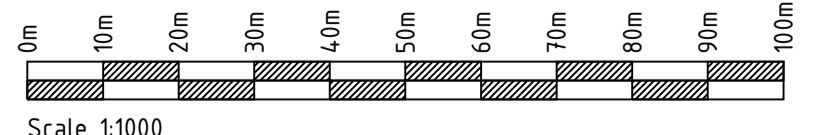
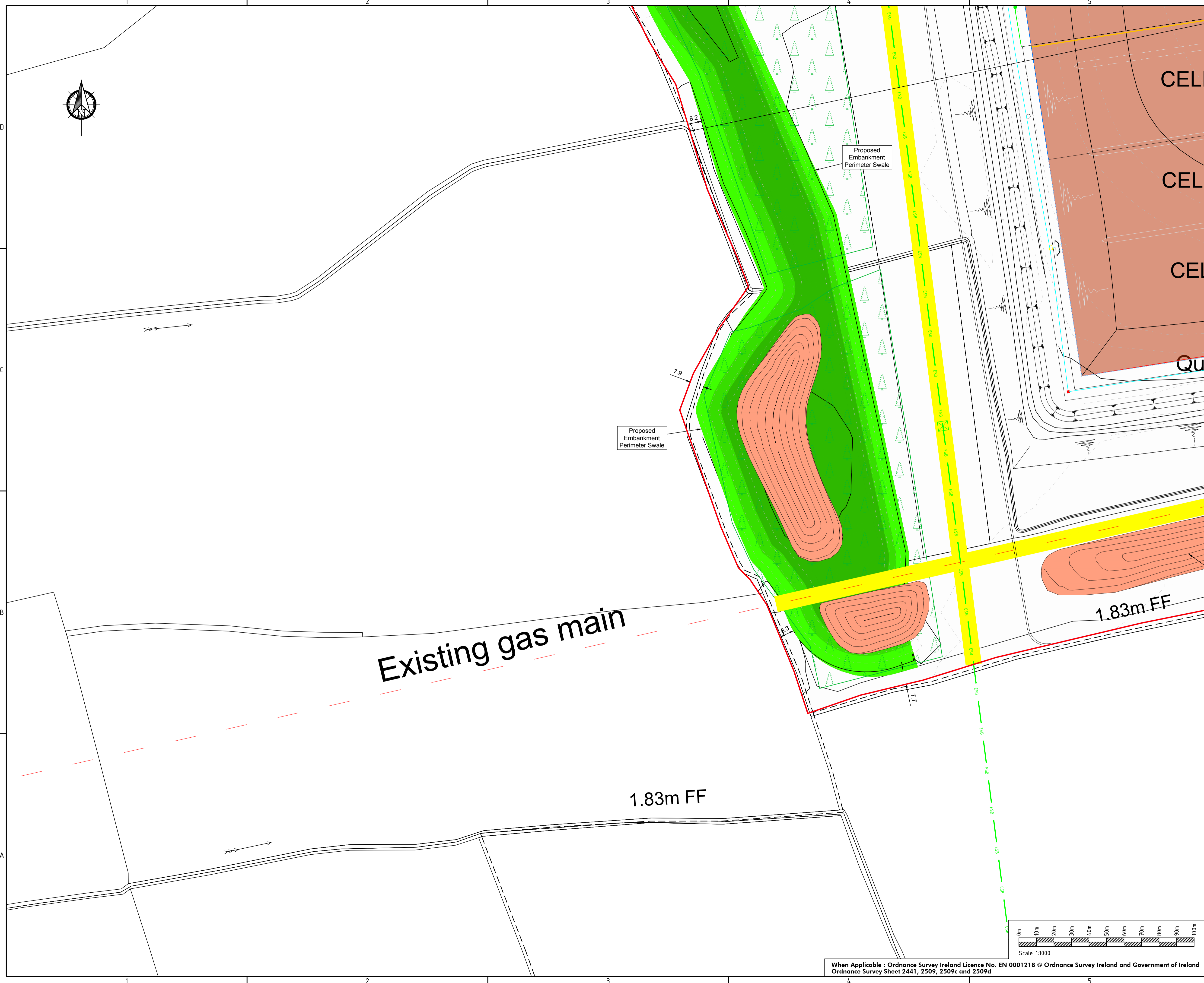


CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

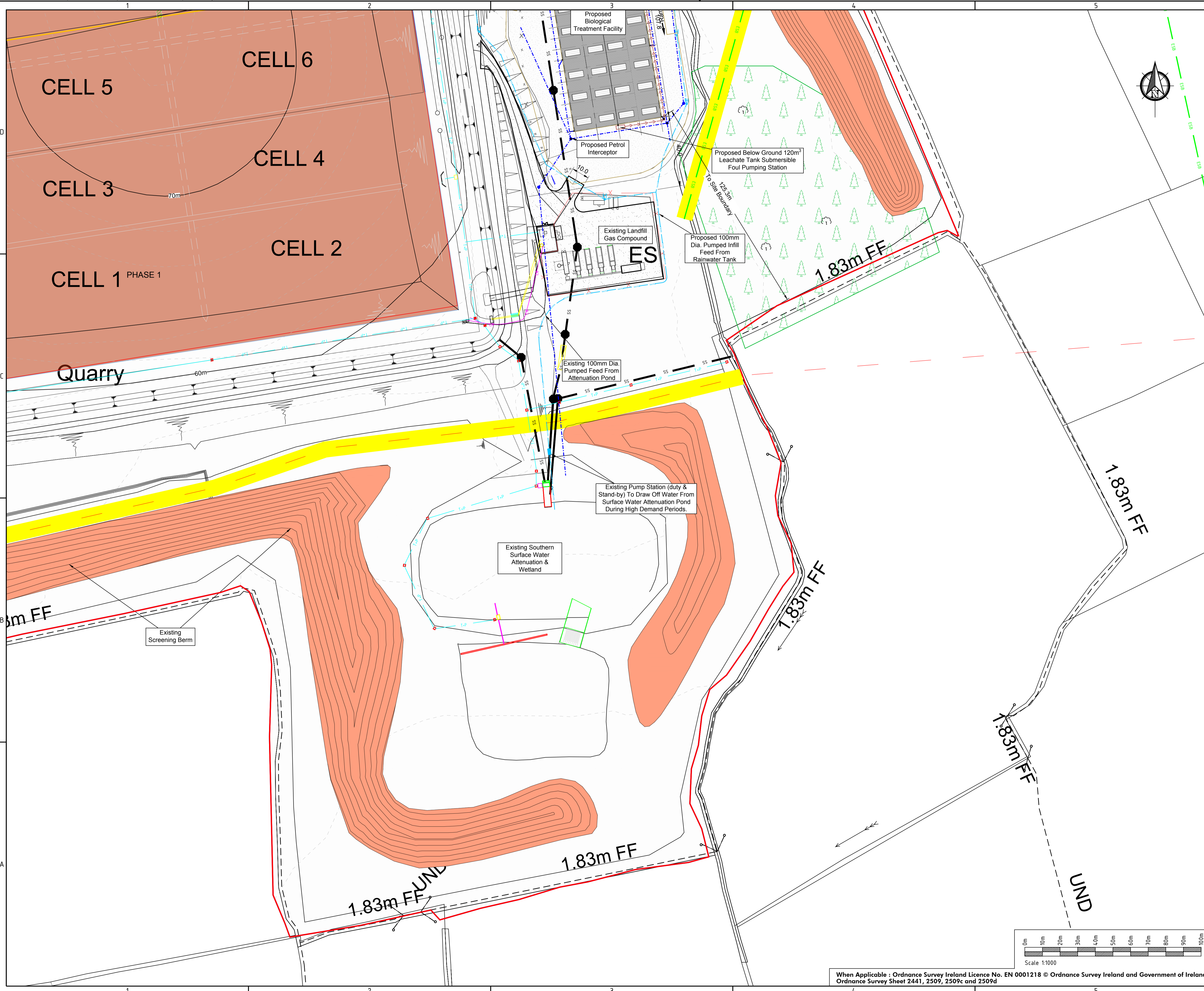
W: www.feihlytimoney.ie, E: info@ftco.ie

Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6383500, F: +353-1-6383501



When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland
 Ordnance Survey Sheet 2441, 2509, 2509c and 2509d



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary
- Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA
- IBA, Cell 33 (Outline Only Shown For Clarity)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer

Rev.	Drawn	SK	CHK'd	CJC	App'd	BG	Cork	10.07.18	Issue For Planning Application
Revision History A									
Name of Client									
KNOCKHARLEY LANDFILL LTD.									
Name of Job									
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL									
Title of Drawing									
PROPOSED SITE LAYOUT PLAN SHEET 8 OF 8									

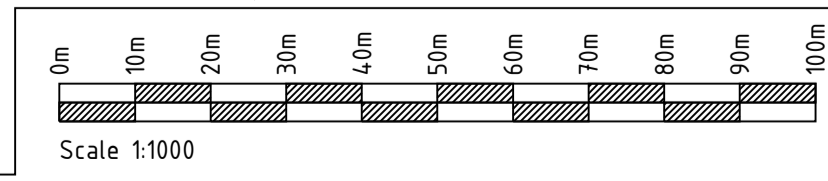
Scales Used	This Drawing was printed to
1:1000	A1
Dwg. No.	Rev.
LW14-821-01-P-0000-011	A

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

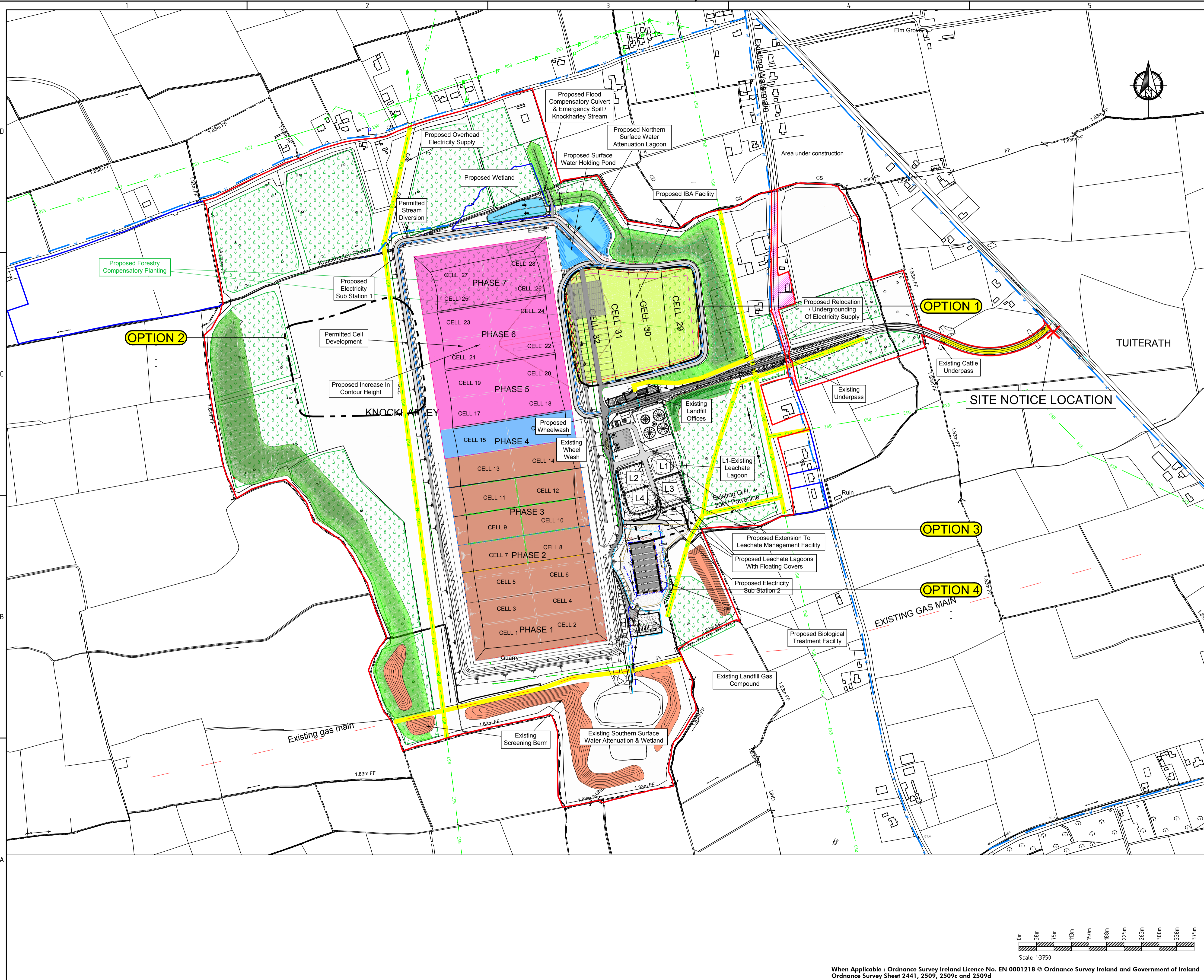
J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501



When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland
 Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

SCALE - VERTICAL

SCALE HORIZ



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary
- Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA
- IBA, Cell 33 (Outline Only Shown For Clarity)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

- Options considered:
- Option 1 – IBA storage facility – east of the existing permitted landfill footprint
 - Option 2 – IBA storage facility – west of the existing permitted landfill footprint
 - Option 3 – Biological treatment facility Location 1
 - Option 4 – Biological treatment facility Location 2

Rev.	Drawn	SK	CHKD	CIC	Appd	Rev Origin	Cork	10.07.18	Issue For Planning Application
------	-------	----	------	-----	------	------------	------	----------	--------------------------------

Revision History	A								EAIR
------------------	---	--	--	--	--	--	--	--	------

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
ASSESSMENT OF ALTERNATIVES

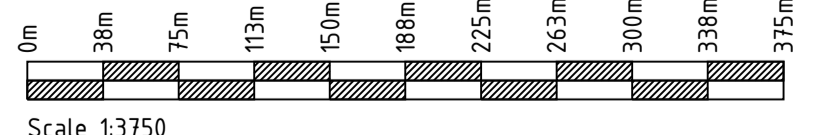
Scales Used	This Drawing was printed to
1:3750	A1.
Dwg. No.	Rev.
LW14-821-01-P-0000-012	A

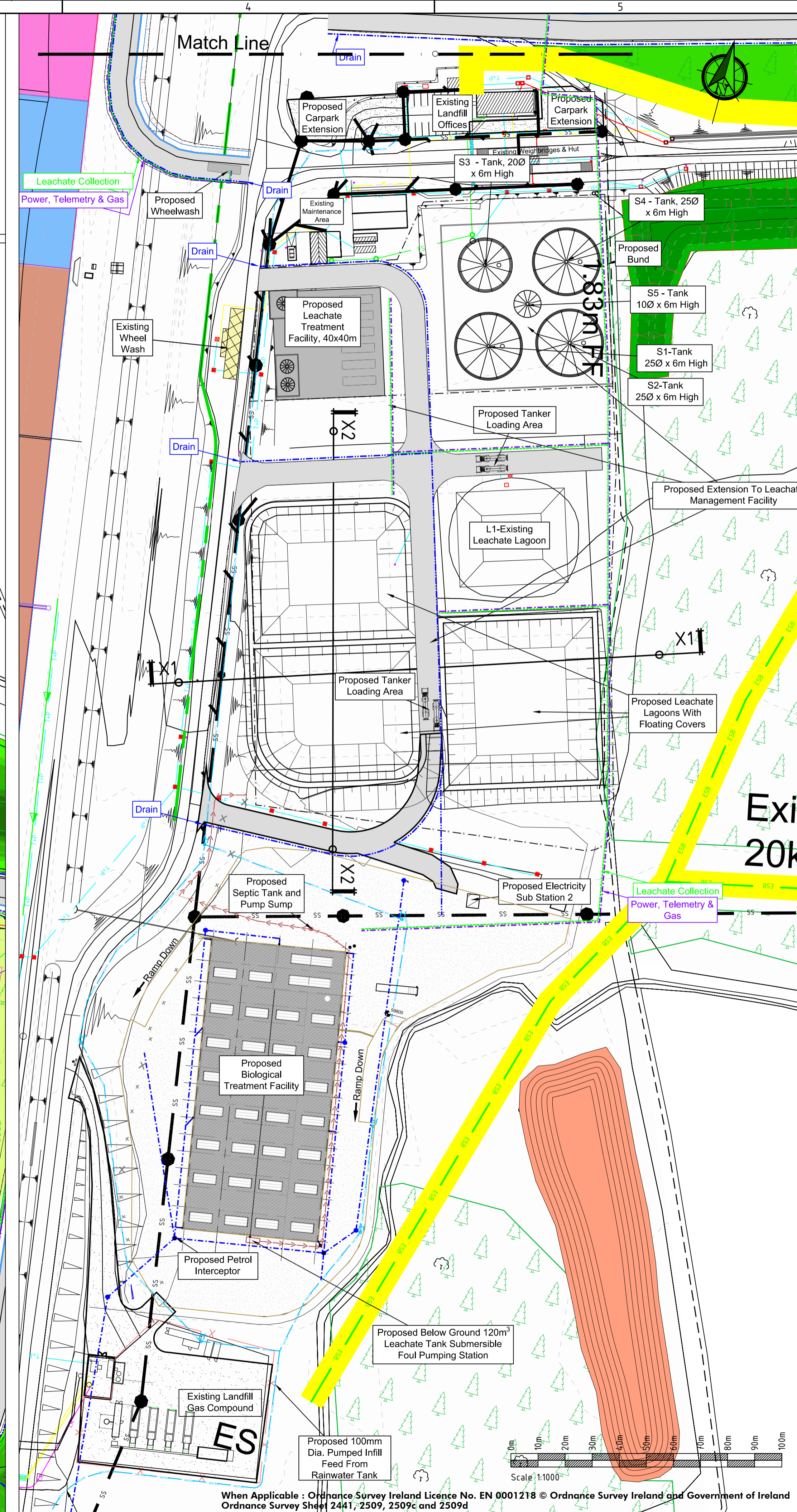
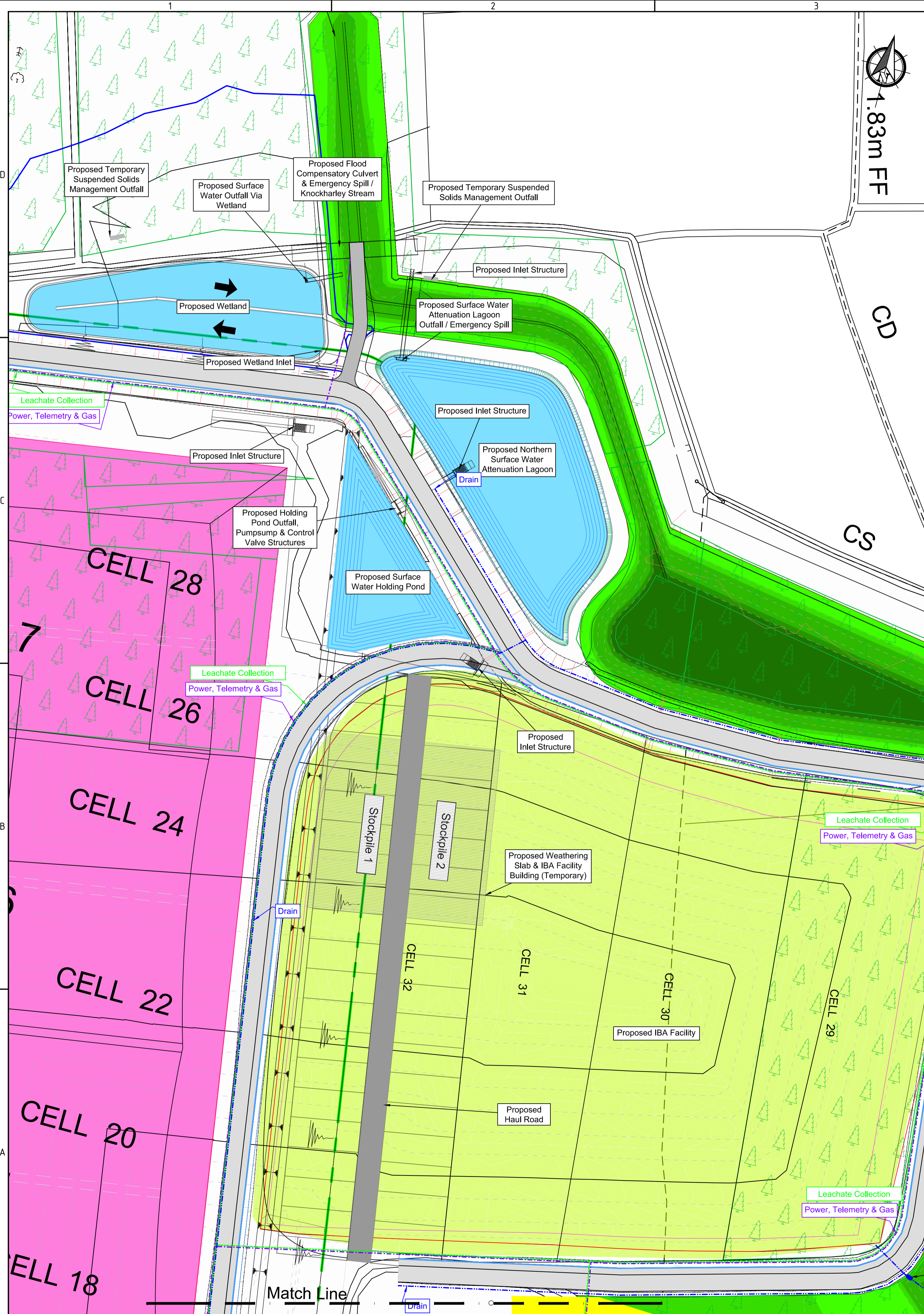
CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501





NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Feihly Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary
- Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA
- IBA, Cell 33 (Outline Only Shown For Clarity)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer

Rev.	Drawn	SK	CHK'd	App'd	Rev Origin	Date	Description
A	CJK	CJK	CG	CG	Cork	10.07.18	Issue For Planning Application

Revision History A

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
PLAN SHOWING PROPOSED INFRASTRUCTURE WORK

Scales Used
1:1000

Dwg. No.
LW14-821-01-P-0000-013

Rev.
A

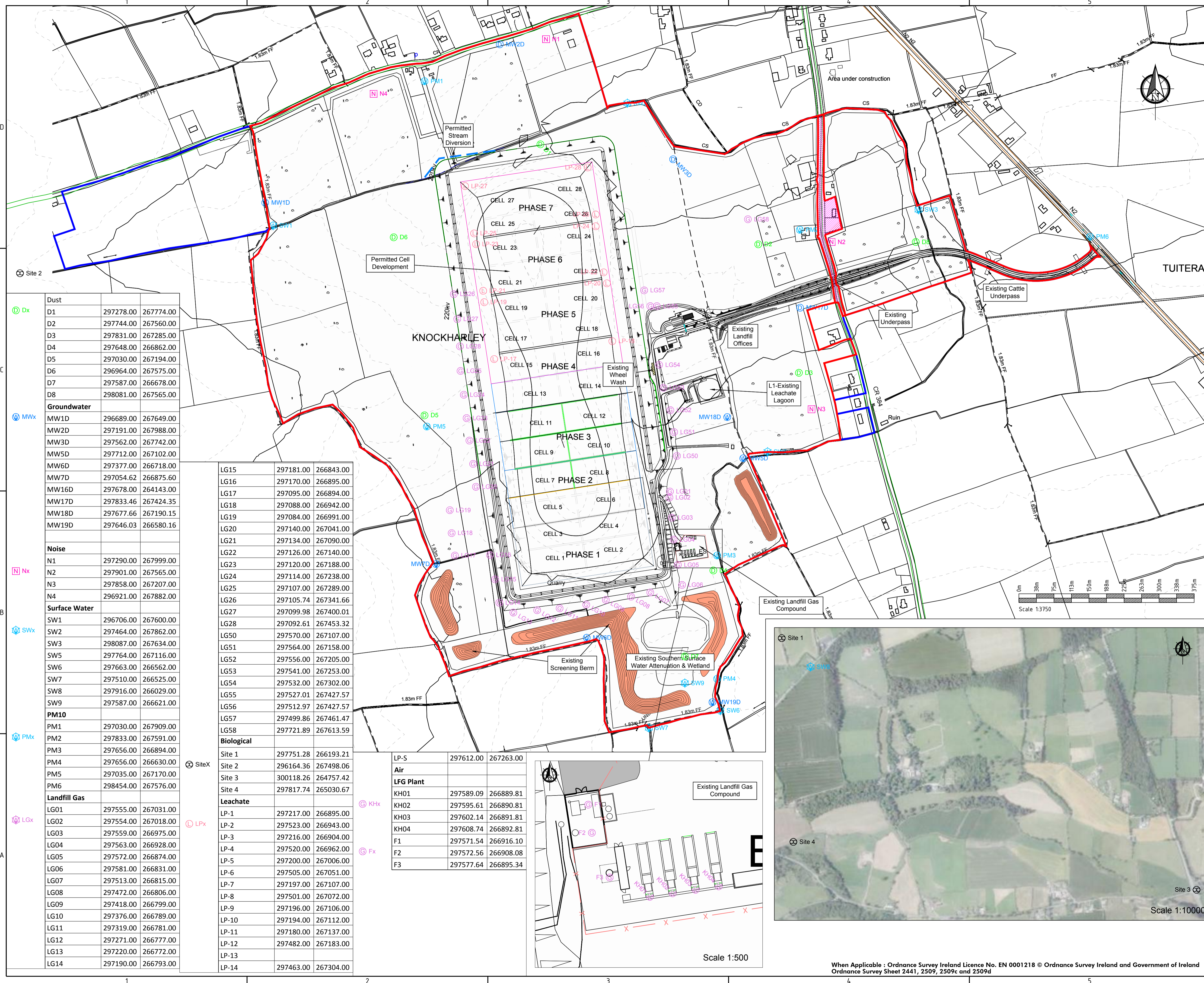
CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
FEIHLY TIMONEY & COMPANY
 W: www.feihlytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501

NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND
 Planning Boundary
 Areas Within Planning Boundary, Not Within Application Site
 Ownership Boundary

Note: MW17D, MW18D and MW19D were installed in 2016 for baseline monitoring for proposed development



Dust		
D1	297278.00	267774.00
D2	297744.00	267560.00
D3	297831.00	267285.00
D4	297648.00	266862.00
D5	297030.00	267194.00
D6	296964.00	267575.00
D7	297587.00	266678.00
D8	298081.00	267565.00

Groundwater		
MW1D	296689.00	267649.00
MW2D	297191.00	267988.00
MW3D	297562.00	267742.00
MW5D	297712.00	267102.00
MW6D	297377.00	266718.00
MW7D	297054.62	266875.60
MW16D	297678.00	264143.00
MW17D	297833.46	267424.35
MW18D	297677.66	267190.15
MW19D	297646.03	266580.16

Noise		
N1	297290.00	267999.00
N2	297901.00	267565.00
N3	297858.00	267207.00
N4	296921.00	267882.00

Surface Water		
SW1	296706.00	267600.00
SW2	297464.00	267862.00
SW3	298087.00	267634.00
SW5	297764.00	267116.00
SW6	297663.00	266562.00
SW7	297510.00	266525.00
SW8	297916.00	266029.00
SW9	297587.00	266621.00

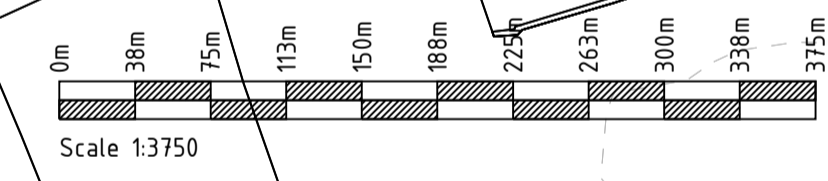
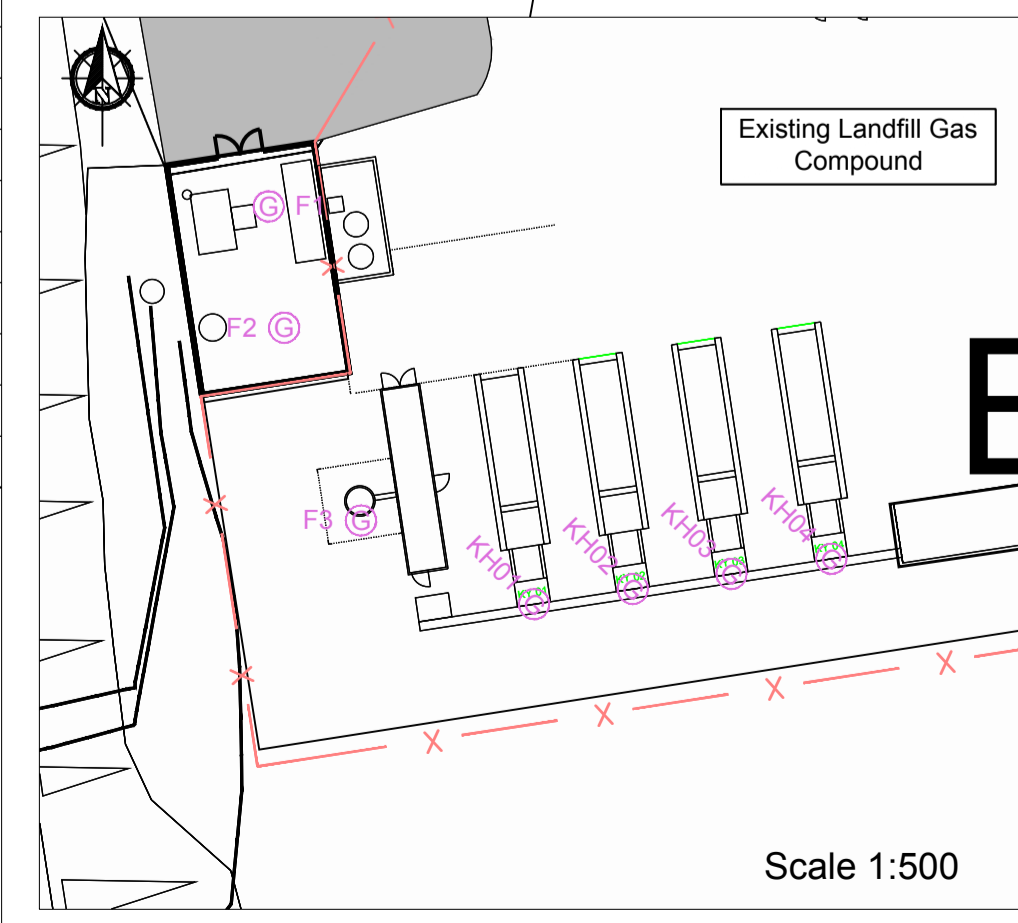
PM10		
PM1	297030.00	267909.00
PM2	297833.00	267591.00
PM3	297656.00	266894.00
PM4	297656.00	266630.00
PM5	297035.00	267170.00
PM6	298454.00	267576.00

Landfill Gas		
LG01	297555.00	267031.00
LG02	297554.00	267018.00
LG03	297559.00	266975.00
LG04	297563.00	266928.00
LG05	297572.00	266874.00
LG06	297581.00	266831.00
LG07	297513.00	266815.00
LG08	297472.00	266806.00
LG09	297418.00	266799.00
LG10	297376.00	266789.00
LG11	297319.00	266781.00
LG12	297271.00	266777.00
LG13	297220.00	266772.00
LG14	297190.00	266793.00

LG15	297181.00	266843.00
LG16	297170.00	266895.00
LG17	297095.00	266894.00
LG18	297088.00	266942.00
LG19	297084.00	266991.00
LG20	297140.00	267041.00
LG21	297134.00	267090.00
LG22	297126.00	267140.00
LG23	297120.00	267188.00
LG24	297114.00	267238.00
LG25	297107.00	267289.00
LG26	297105.74	267341.66
LG27	297099.98	267400.01
LG28	297092.61	267453.32
LG50	297570.00	267107.00
LG51	297564.00	267158.00
LG52	297556.00	267205.00
LG53	297541.00	267253.00
LG54	297532.00	267302.00
LG55	297527.01	267427.57
LG56	297512.97	267427.57
LG57	297499.86	267461.47
LG58	297721.89	267613.59

Biological		
Site 1	297751.28	266193.21
Site 2	296164.36	267498.06
Site 3	300118.26	264757.42
Site 4	297817.74	265030.67

Air		
LP-S	297612.00	267263.00
LFG Plant		
KH01	297589.09	266889.81
KH02	297595.61	266890.81
KH03	297602.14	266891.81
KH04	297608.74	266892.81
F1	297571.54	266916.10
F2	297572.56	266908.08
F3	297577.64	266895.34



Rev.	Drawn	Chkd	Appd	Rev Origin	Date	Description
A				Cork	10.07.18	Issue For Planning Application

Name of Client
KNOCKHARLEY LANDFILL LTD.

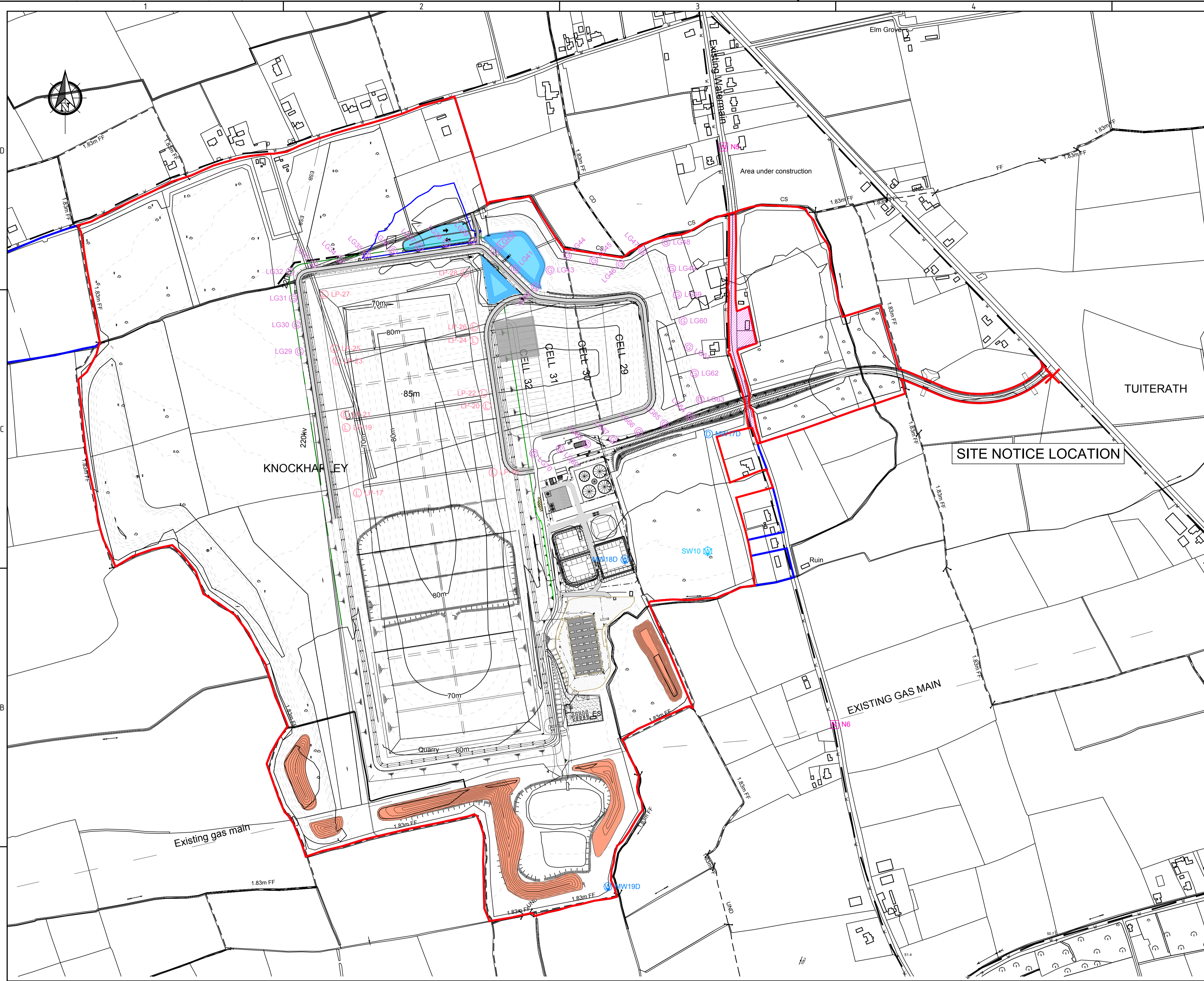
Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
EXISTING MONITORING POINTS

Scales Used
1:3750

Dwg. No.
LW14-821-01-P-0050-001

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
FEHILY TIMONEY & COMPANY
 W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501



REF	EASTING	NORTHING
Gas		
LG29	297070	267578
LG30	297065	267628
LG31	297059	267677
LG32	297053	267727
LG33	297097	267741
LG34	297146	267750
LG35	297196	267759
LG36	297245	267766
LG37	297295	267773
LG38	297344	267779
LG39	297394	267785
LG40	297436	267765
LG41	297473	267732
LG42	297511	267699
LG43	297538	267730
LG44	297570	267757
LG45	297619	267747
LG46	297669	267741
LG47	297711	267766
LG48	297754	267782
LG49	297765	267733
LG59	297776	267684
LG60	297786	267635
LG61	297797	267586
LG62	297807	267538
LG63	297818	267489
LG64	297799	267457
LG65	297751	267443
LG66	297703	267429
LG67	297655	267414
LG68	297606	267406
LG69	297557	267397
LG70	297508	267388
Groundwater		
MW17D	297833	267424
MW18D	297678	267190
MW19D	297646	266580
Noise		
N5	297862	267959
N6	298069	266882
Surfacewater		
SW10	297832	267206
Leachate		
LP-17	297178.9149	267314.3403
LP-18	297431.7139	267352.6671
LP-19	297157.7742	267436.1495
LP-20	297420.2549	267476.5585
LP-21	297155.4964	267460.4859
LP-22	297413.2442	267500.0493
LP-23	297140.2212	267560.3116
LP-24	297396.3194	267598.6386
LP-25	297136.0972	267583.3901
LP-26	297396.3194	267623.7777
LP-27	297116.7019	267684.5522
LP-28	297378.986	267724.5276

NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

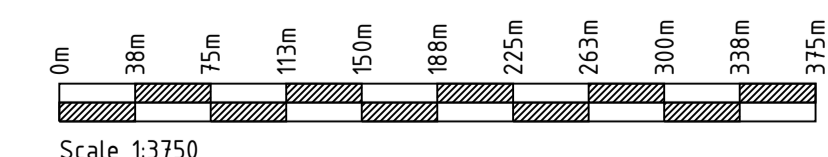
No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary

SCALE - VERTICAL

0 10 20 30 40 50 60 70 80 90 100



A	SK	C/C	BC	Cork	10.07.18	Issue For Planning Application
---	----	-----	----	------	----------	--------------------------------

Rev.	Drawn	SK	CHKD	C/C	Appd	Rev Origin	Date	Description
								EAIR

Revision History A

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED ENVIRONMENTAL MONITORING LOCATIONS

Scales Used This Drawing was printed to A1.

1:3750

Dwg. No.	Rev.
LW14-821-01-P-0050-002	A

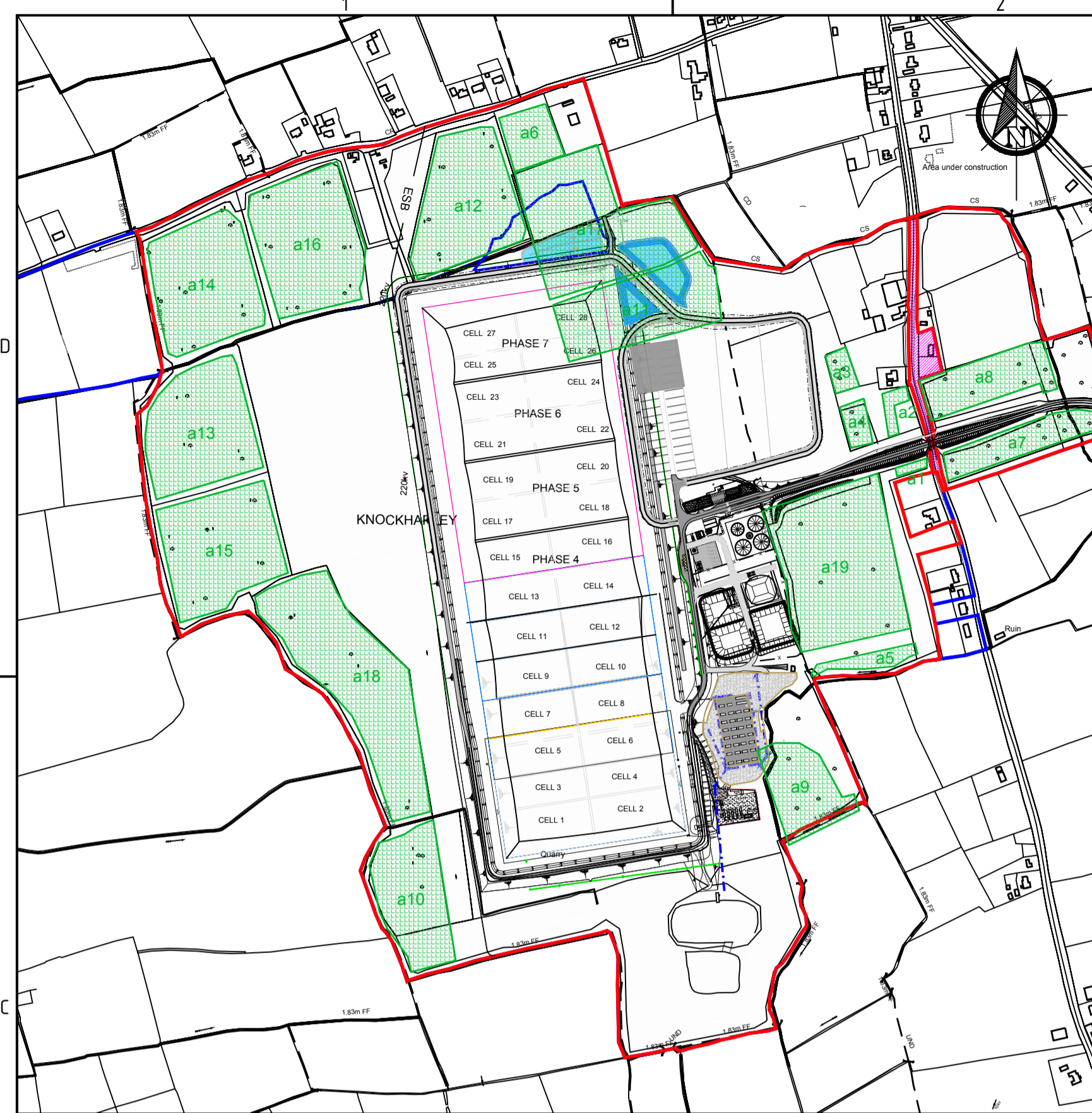
CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

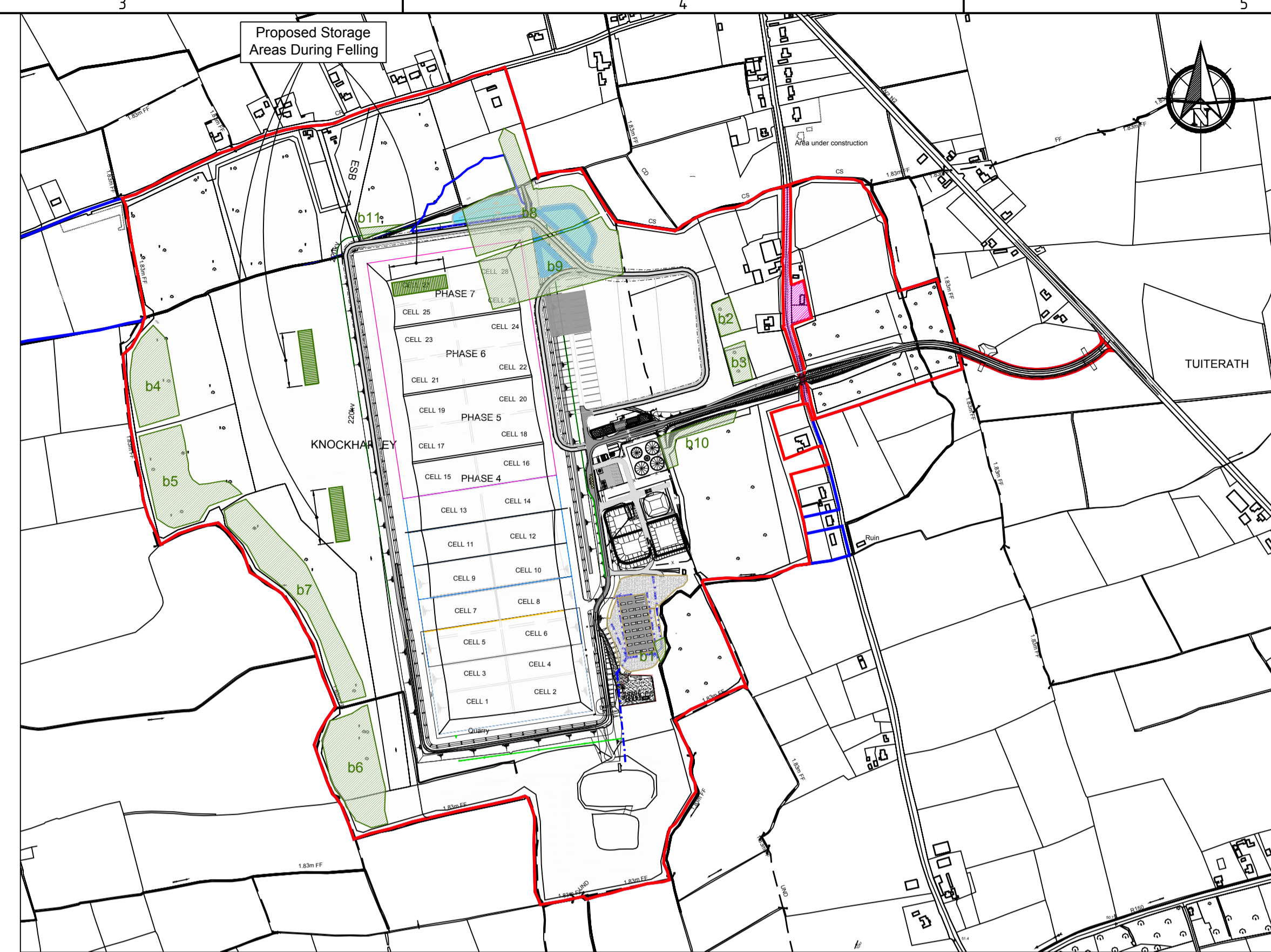
W: www.fehilytimoney.ie, E: info@ftco.ie

Core House, Pouladuff Rd, Cork, Ireland.
T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
T: +353-1-6383500, F: +353-1-6383501



Ref.	Existing Forestry Description
a1	Broadleaved dominant woodland
a2	Broadleaved dominant woodland
a3	Broadleaved dominant woodland
a4	Broadleaved dominant woodland
a5	Broadleaved dominant woodland
a6	Broadleaved dominant woodland
a7	Broadleaved dominant woodland
a8	Broadleaved dominant woodland
a9	Broadleaved dominant woodland
a10	Broadleaved dominant woodland
a11	Broadleaved dominant woodland
a12	Conifer dominant woodland
a13	Conifer dominant woodland
a14	Conifer dominant woodland
a15	Conifer dominant woodland
a16	Conifer dominant woodland
a17	Broadleaved dominant woodland
a18	Conifer dominant woodland
a19	Broadleaved dominant woodland



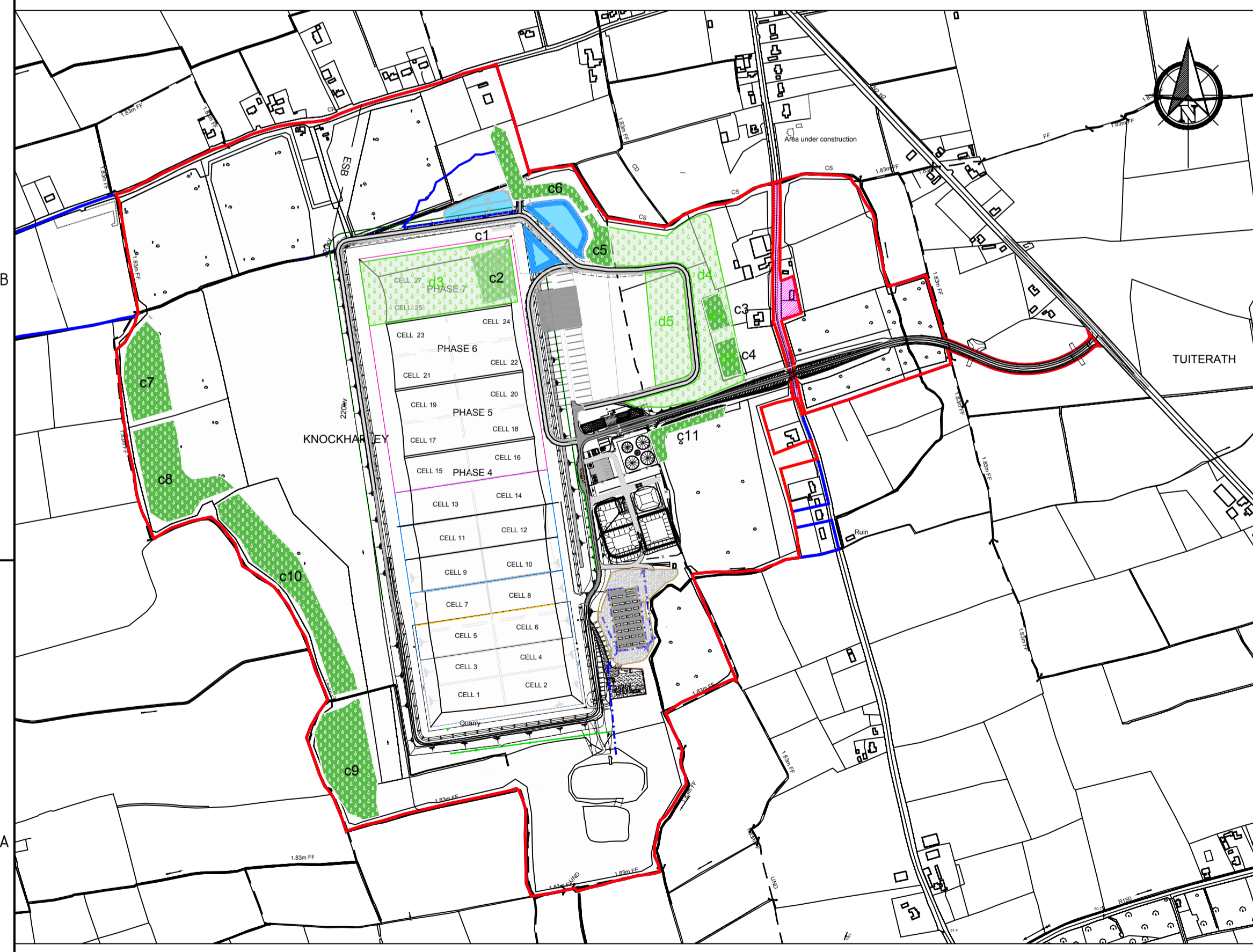
Ref.	Existing Forestry, (a)	Existing Forestry To Be Cut, (b)	Existing Forestry To Be Restored, (c)	New Forestry (New), (d)	Final Forestry Planting Areas, (e)
1	673	592	649	-2315	649
2	1677	2315	2315	-2596	673
3	2315	2596	2596	13916	1677
4	2596	11689	3257	32551	1728
5	3349	16793	3410	33676	3257
6	6909	17435	6575		3349
7	11269	21152	7061		17420
8	13677	23414	11689		11050
9	14348	25483	16793		11269
10	20878	3410	17435		13677
11	25716	794	21152		13756
12	28322				13916
13	28857				20878
14	29551				28322
15	29852				28857
16	32339				29551
17	38762				29852
18	42256				30190
19	43708				32339
20					32551
21					42256
22					43708
Areas in sq. meters					
	377054	125673	92932	75232	410925

NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

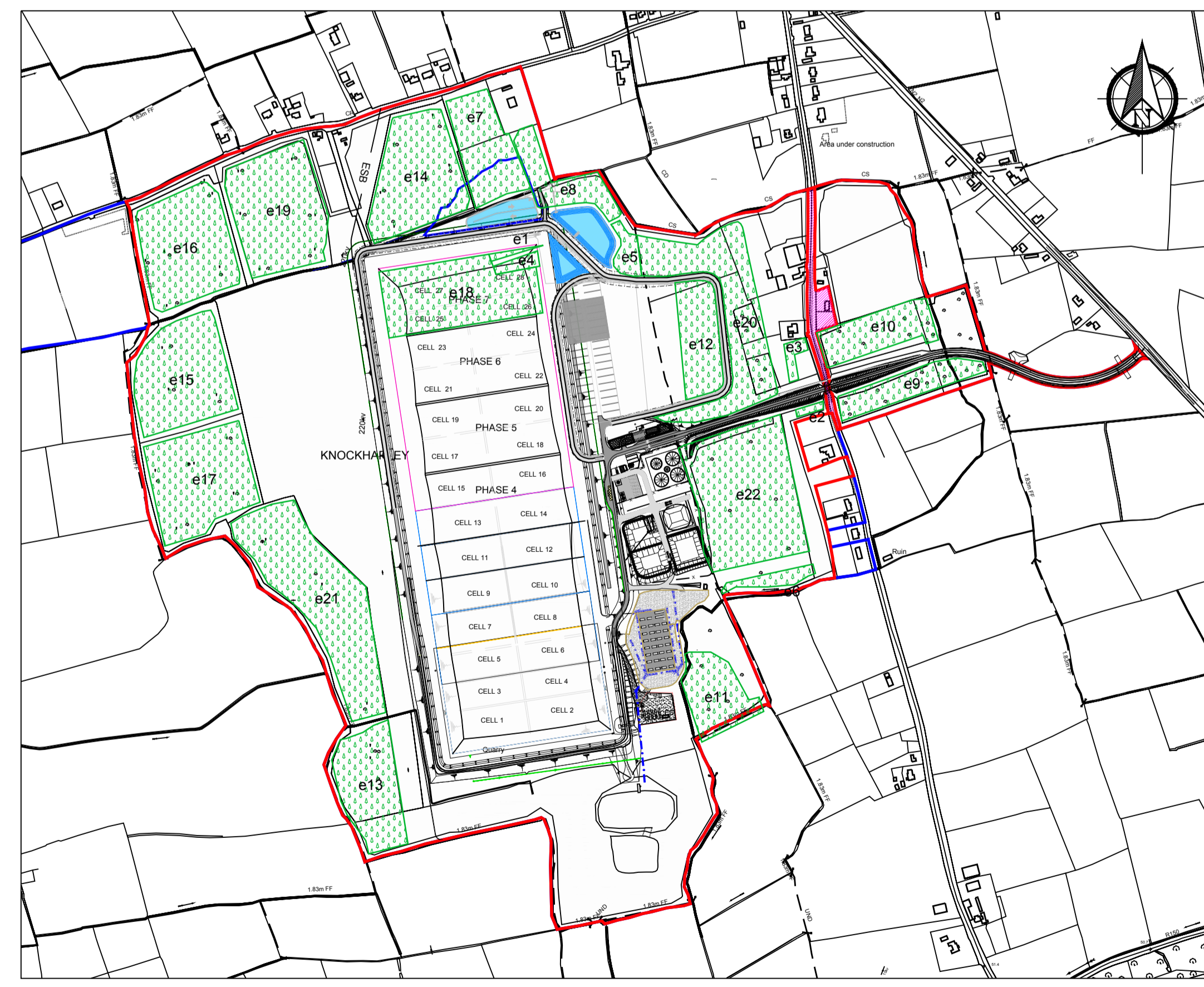
(a) EXISTING FOREST PLANTING

(b) PROPOSED FOREST FELLING

Reforestation means restoring forestry in areas that were felled to facilitate development.
 New forestation means planting forestry in areas that were not previously forested to maintain the same level of forestry on the site.



(c) AREAS OF PROPOSED FORESTRY RESTORATION & (d) NEW PLANTING

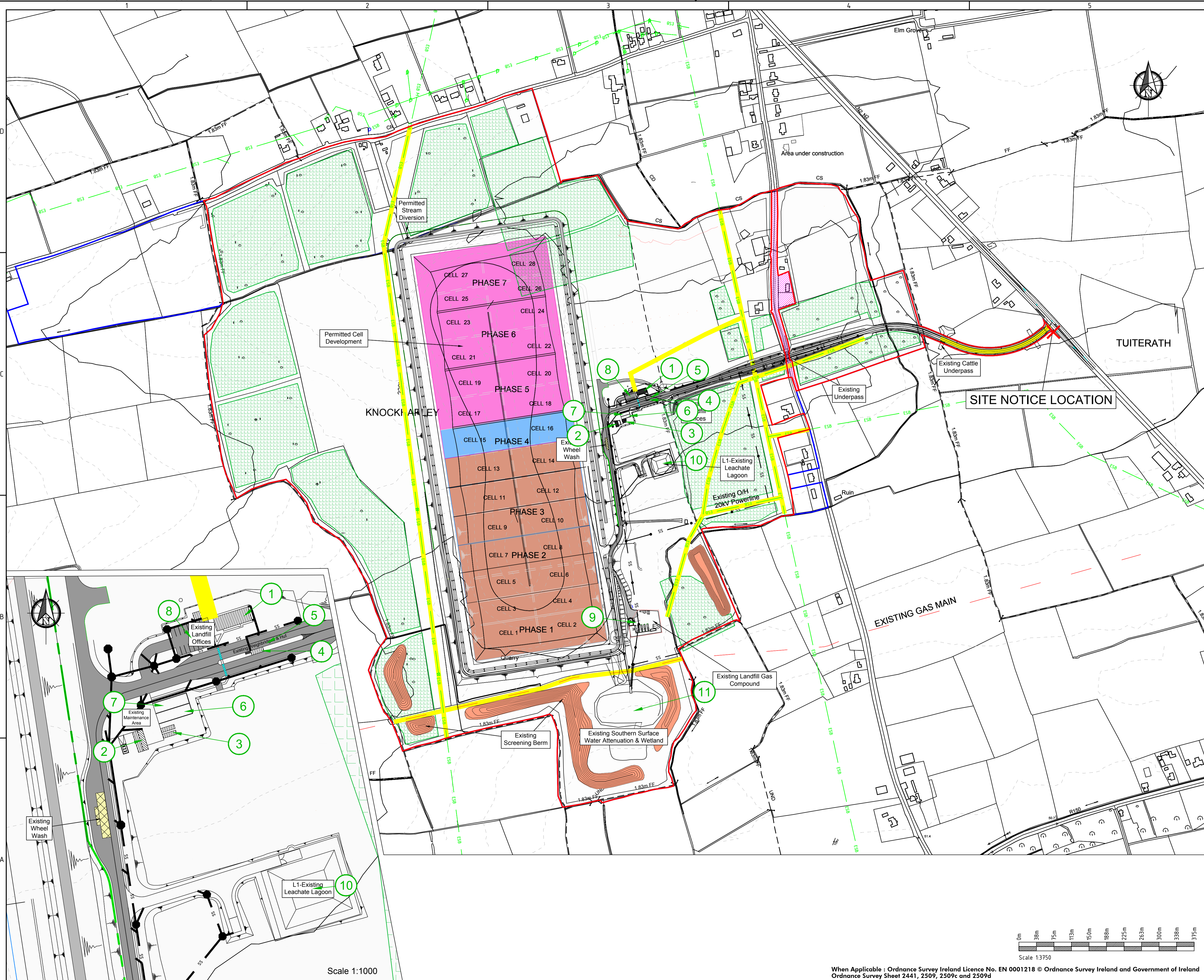


(e) PROPOSED FINAL FOREST PLANTING

Ref.	Final Proposed Forestry Description
e1	Broadleaved dominant woodland
e2	Broadleaved dominant woodland
e3	Broadleaved dominant woodland
e4	Broadleaved dominant woodland
e5	Broadleaved dominant woodland
e6	Broadleaved dominant woodland
e7	Broadleaved dominant woodland
e8	Broadleaved dominant woodland
e9	Broadleaved dominant woodland
e10	Broadleaved dominant woodland
e11	Broadleaved dominant woodland
e12	Conifer dominant woodland
e13	Conifer dominant woodland
e14	Conifer dominant woodland
e15	Conifer dominant woodland
e16	Conifer dominant woodland
e17	Conifer dominant woodland
e18	Conifer dominant woodland
e19	Conifer dominant woodland
e20	Broadleaved dominant woodland
e21	Conifer dominant woodland
e22	Broadleaved dominant woodland

Rev.	Drawn	SK	CHK'd	CIC	App'd	Rev Origin	Date	Description
								Issue For Planning Application
Revision History A								
Name of Client								
KNOCKHARLEY LANDFILL LTD.								
Name of Job								
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL								
Title of Drawing								
EXISTING FORESTATION PROPOSED FELLING & NEW PLANTING								
Scales Used								
1:7500								
Dwg. No.								
LW14-821-01-P-0050-003								
Rev.								
A								

FEHILY TIMONEY & COMPANY
 CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
 W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.
 T: +353-1-6383300, F: +353-1-6383301



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary
- Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Constructed Landfill Cells
- Existing Forested Areas
- Permitted Landfill Cells, To Be Constructed

REFERENCE

- Administration building
- Machinery/maintenance garage
- Portable cabins for storage (4 No)
- Weighbridge Building
- Weighbridge (2 No.)
- Inspection slab
- Quarantine slab
- Car parking
- Landfill gas treatment compound
- Leachate lagoon
- Surface water attenuation lagoon and wetland

Rev.	Drawn	SK	CHKD	CIC	App'd	Rev Origin	Cork	10.07.18	Issue For Planning Application
Revision History		Name of Client							

Name of Client
 KNOCKHARLEY LANDFILL LTD.

Name of Job
 PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

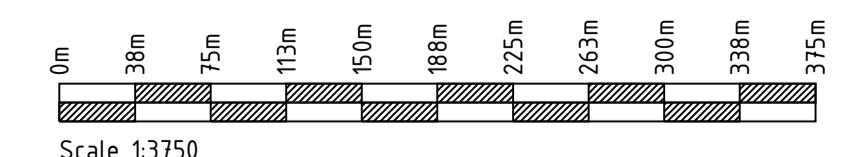
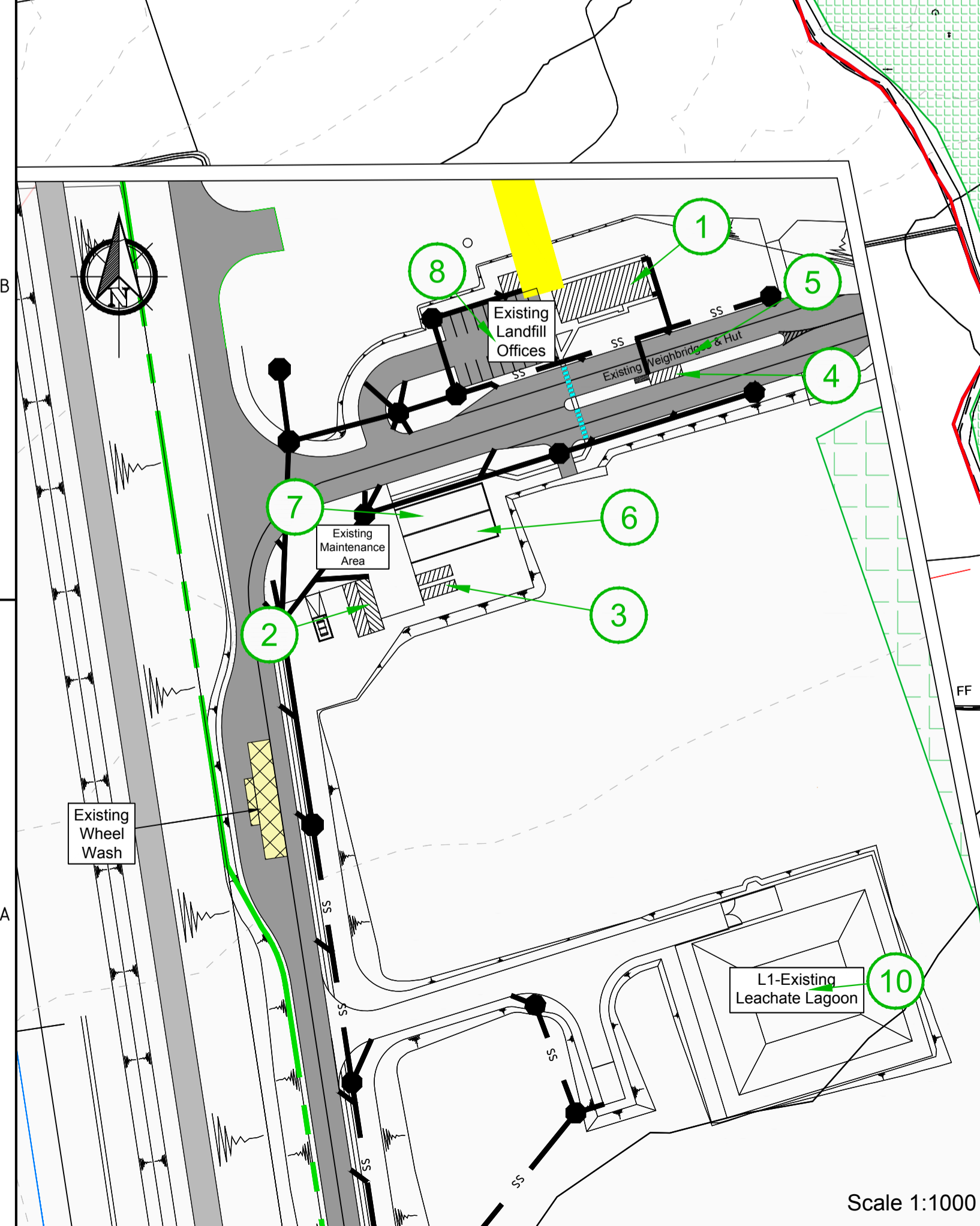
Title of Drawing
 EXISTING SITE LAYOUT WITH INFRASTRUCTURE LOCATIONS

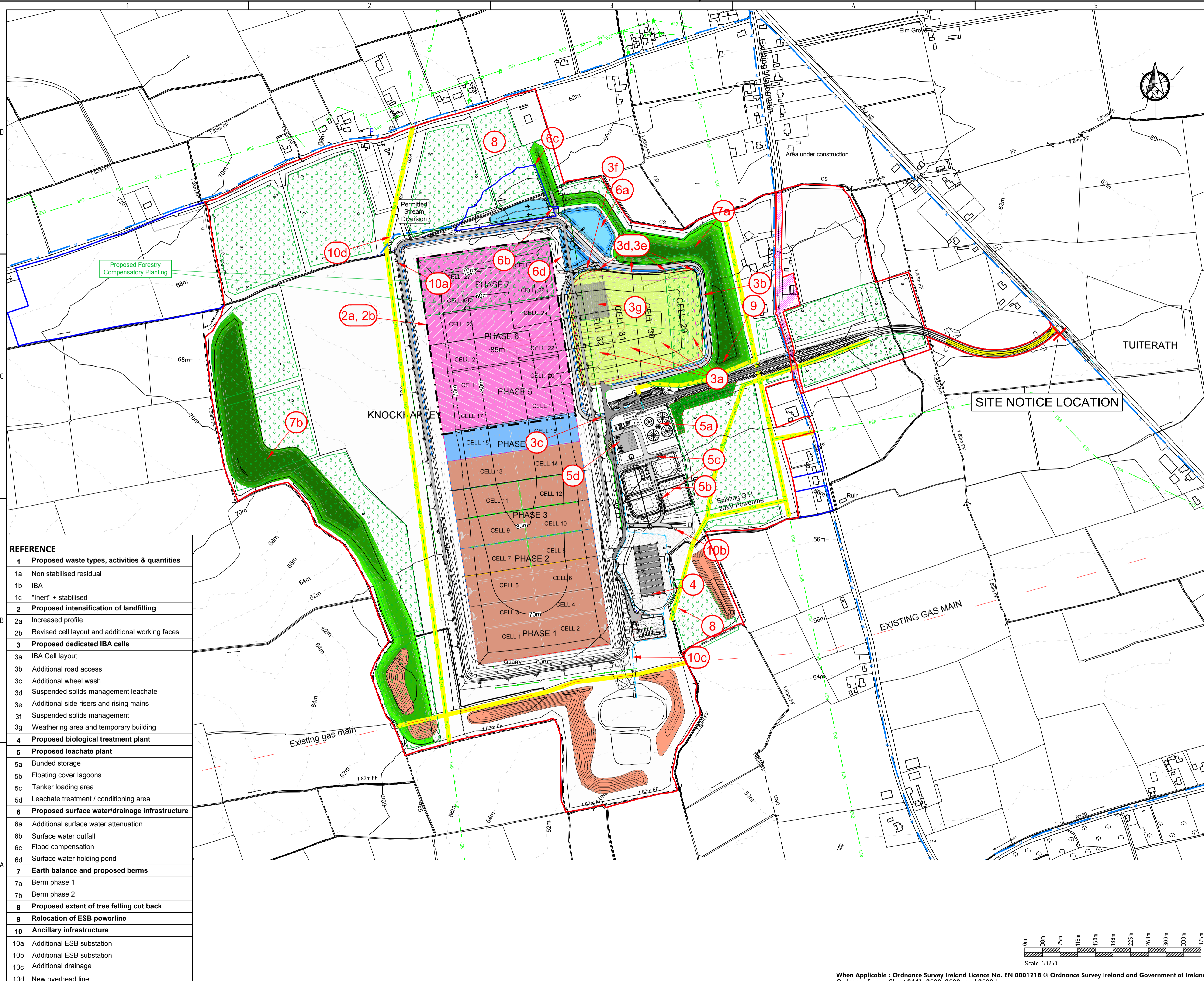
Scale Used	This Drawing was printed to
1:3750	A1.
Dwg. No.	Rev.
LW14-821-01-P-0050-004	A

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY
 W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501





NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Area Within Planning Boundary, Not Within Application Site
- Ownership Boundary Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Existing Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility (1a, 1c)
- IBA Cell 33 (Outline Only Shown For Clarity) (1b)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

REFERENCE

1 Proposed waste types, activities & quantities
1a Non stabilised residual
1b IBA
1c "Inert" + stabilised
2 Proposed intensification of landfilling
2a Increased profile
2b Revised cell layout and additional working faces
3 Proposed dedicated IBA cells
3a IBA Cell layout
3b Additional road access
3c Additional wheel wash
3d Suspended solids management leachate
3e Additional side risers and rising mains
3f Suspended solids management
3g Weathering area and temporary building
4 Proposed biological treatment plant
5 Proposed leachate plant
5a Bunded storage
5b Floating cover lagoons
5c Tanker loading area
5d Leachate treatment / conditioning area
6 Proposed surface water/drainage infrastructure
6a Additional surface water attenuation
6b Surface water outfall
6c Flood compensation
6d Surface water holding pond
7 Earth balance and proposed berms
7a Berm phase 1
7b Berm phase 2
8 Proposed extent of tree felling cut back
9 Relocation of ESB powerline
10 Ancillary infrastructure
10a Additional ESB substation
10b Additional ESB substation
10c Additional drainage
10d New overhead line

Rev.	Drawn	Checked	App'd	Rev Origin	Date	Description
A	SK	CIC	BC	Cork	10.07.18	Issue For Planning Application
Revision History A						
Name of Client						
KNOCKHARLEY LANDFILL LTD.						
Name of Job						
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL						
Title of Drawing						
PROPOSED SITE LAYOUT PLAN WITH INFRASTRUCTURE LOCATIONS						
Scales Used						This Drawing was printed to
1:3750						A1.
Dwg. No.						Rev.
LW14-821-01-P-0050-005						A

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501

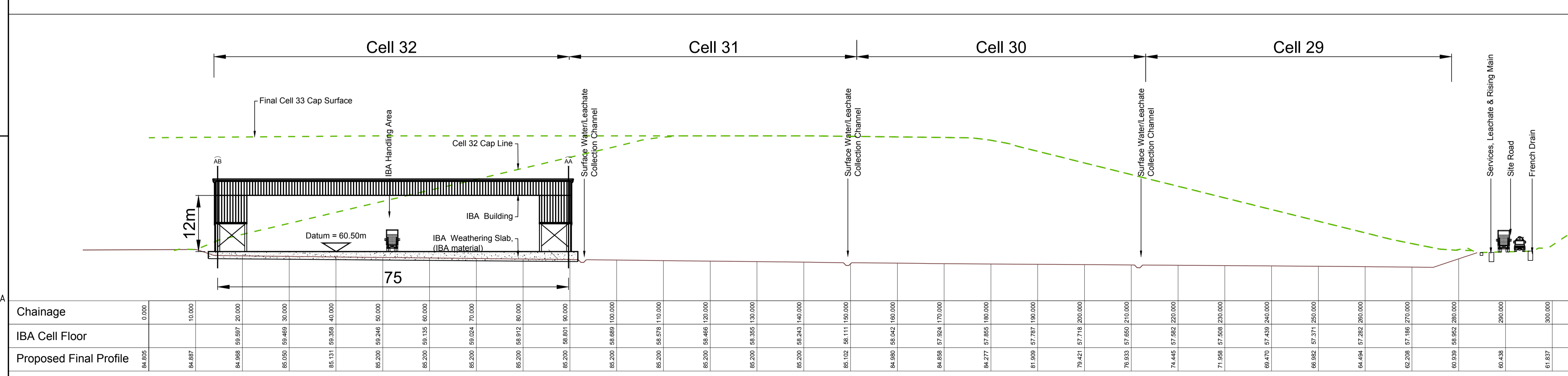
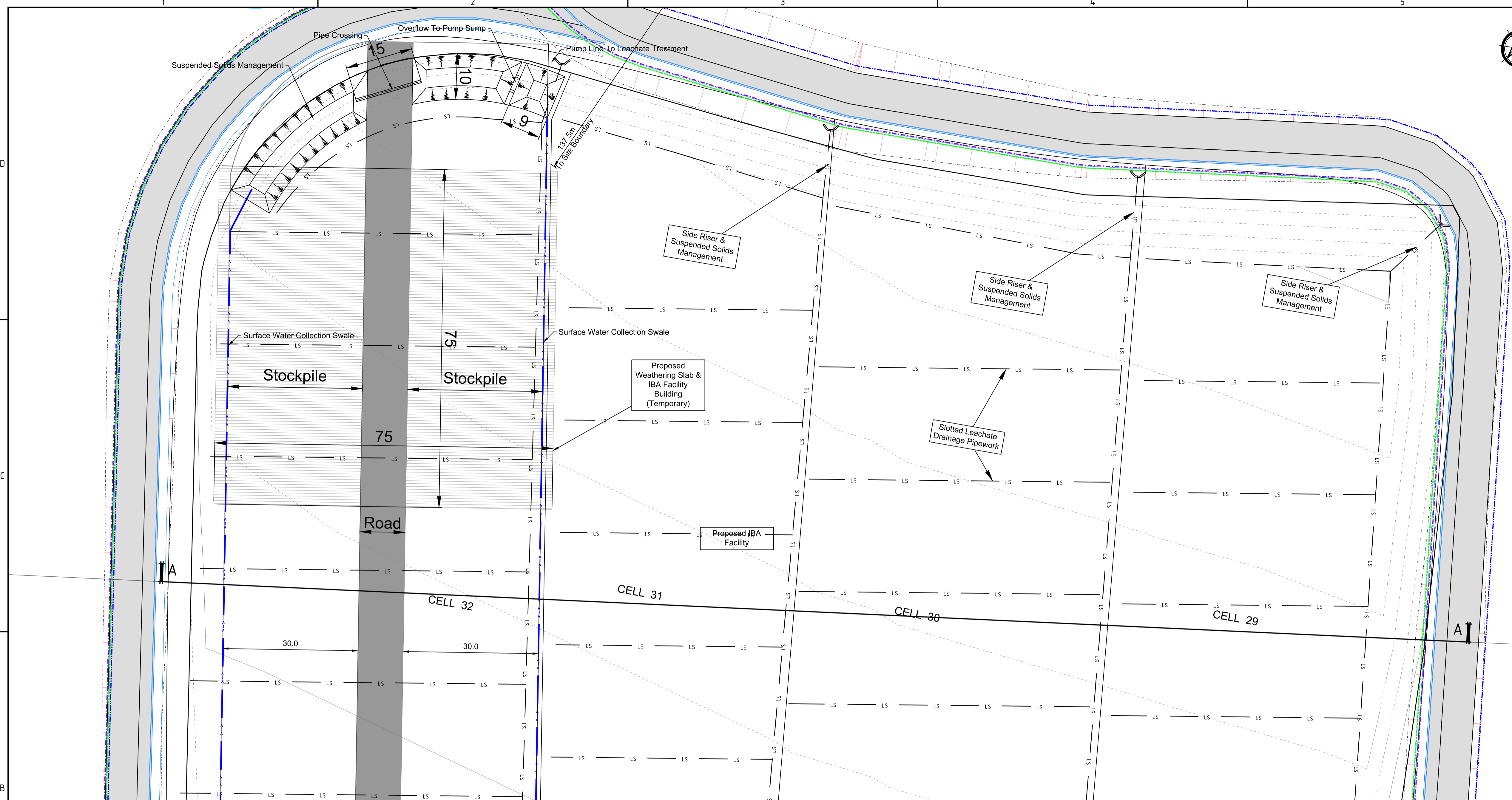


NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Legend

- Leachate Side Riser & Suspended Solids Management
 - LR
 - LR
 - LR
 - LR
- Leachate Pipework
 - LS
 - LS
 - LS
 - LS



Chainage	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000	310.000
IBA Cell Floor	84.895	84.897	84.898	84.897	84.895	84.891	84.884	84.873	84.858	84.839	84.816	84.790	84.761	84.729	84.694	84.656	84.615	84.572	84.527	84.480	84.430	84.378	84.324	84.268	84.210	84.150	84.088	84.024	83.958	83.890	83.820	83.748
Proposed Final Profile	84.895	84.897	84.898	84.897	84.895	84.891	84.884	84.873	84.858	84.839	84.816	84.790	84.761	84.729	84.694	84.656	84.615	84.572	84.527	84.480	84.430	84.378	84.324	84.268	84.210	84.150	84.088	84.024	83.958	83.890	83.820	83.748

Rev.	Drawn	Chkd	Appd	Rev Origin	Date	Description
A	CIC	BC		Cork	10.07.18	Issue For Planning Application

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

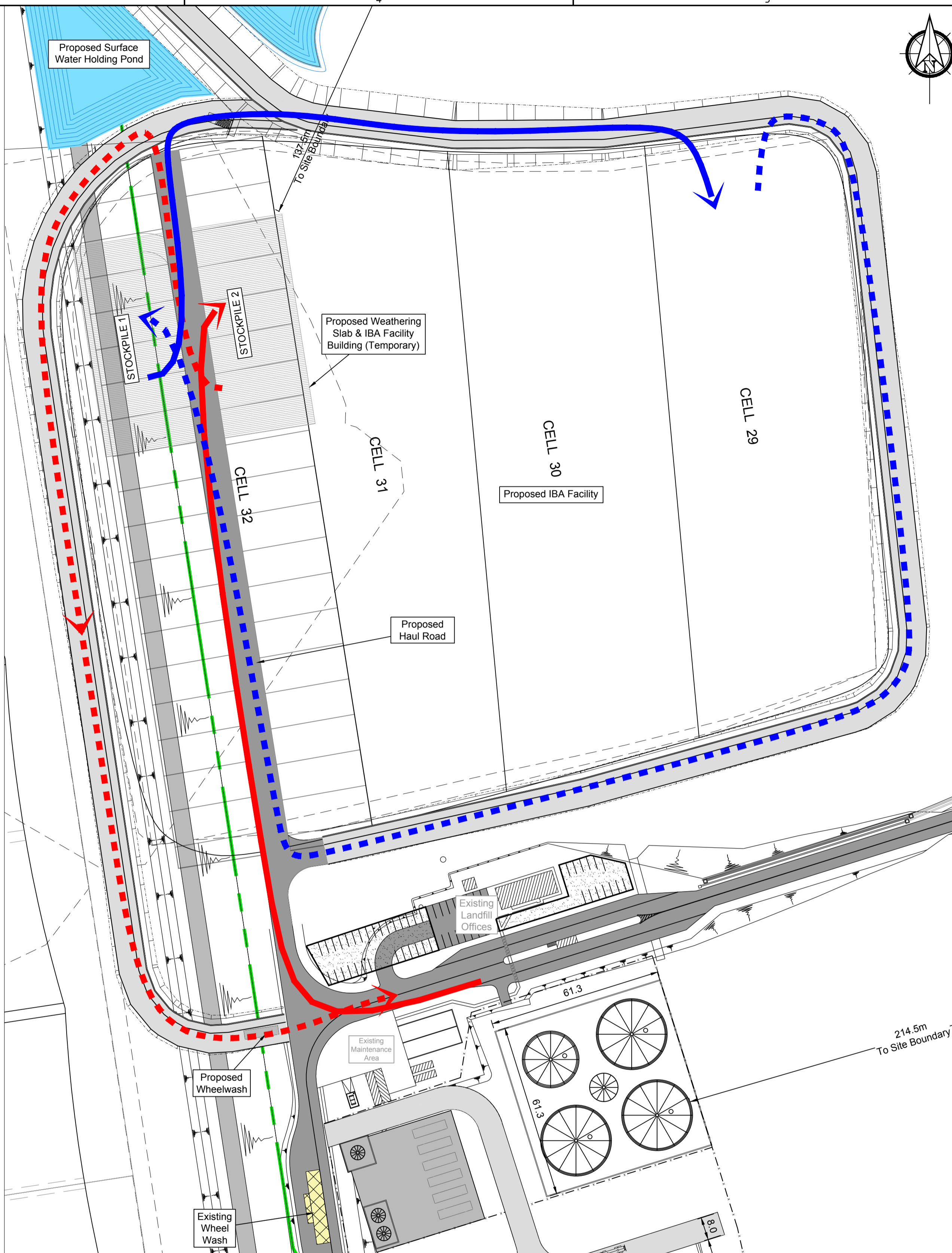
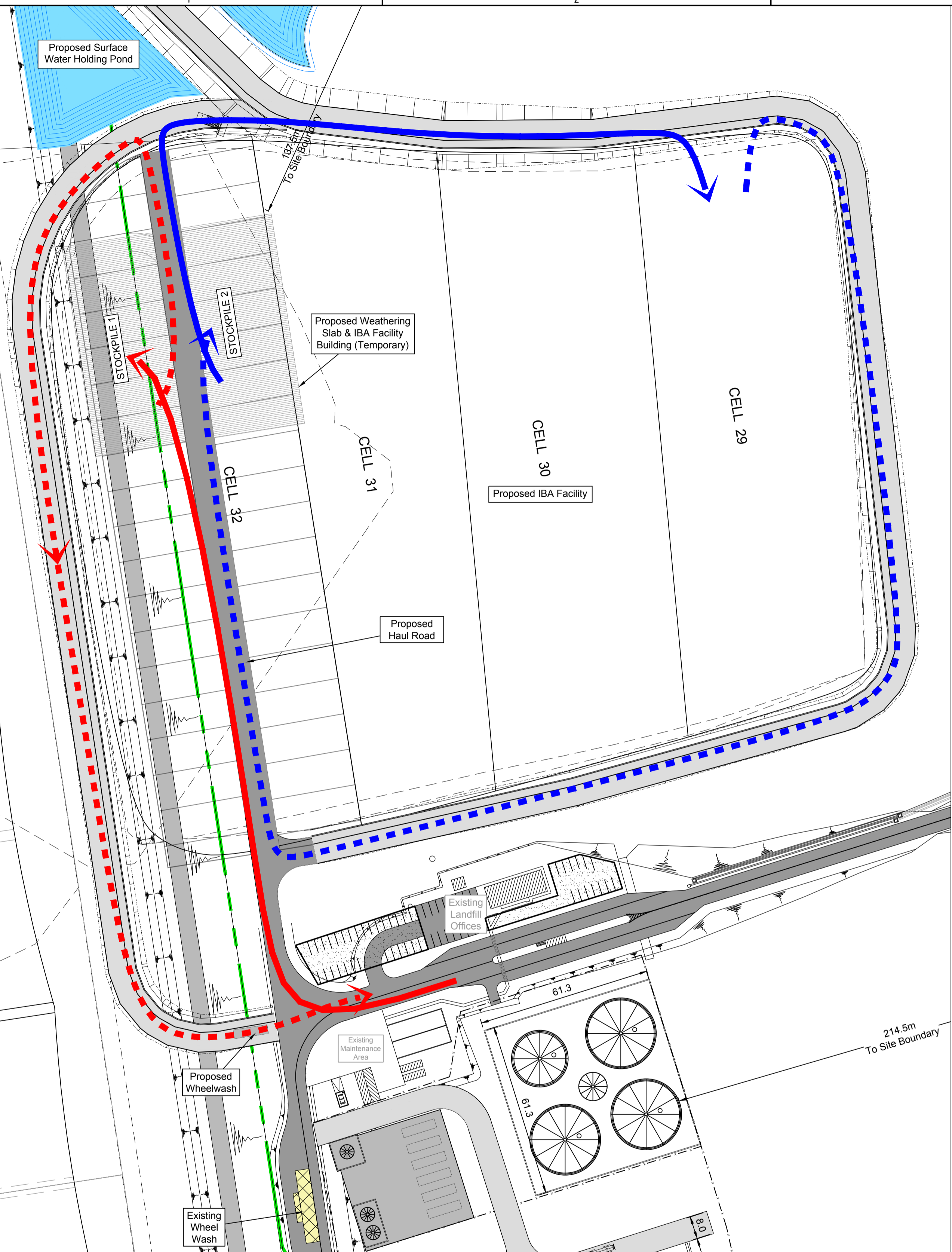
Title of Drawing
PROPOSED IBA FACILITY BUILDING LOCATION AND CROSS SECTION

Scales Used
1:500

Dwg. No.
LW14-821-01-P-0050-006

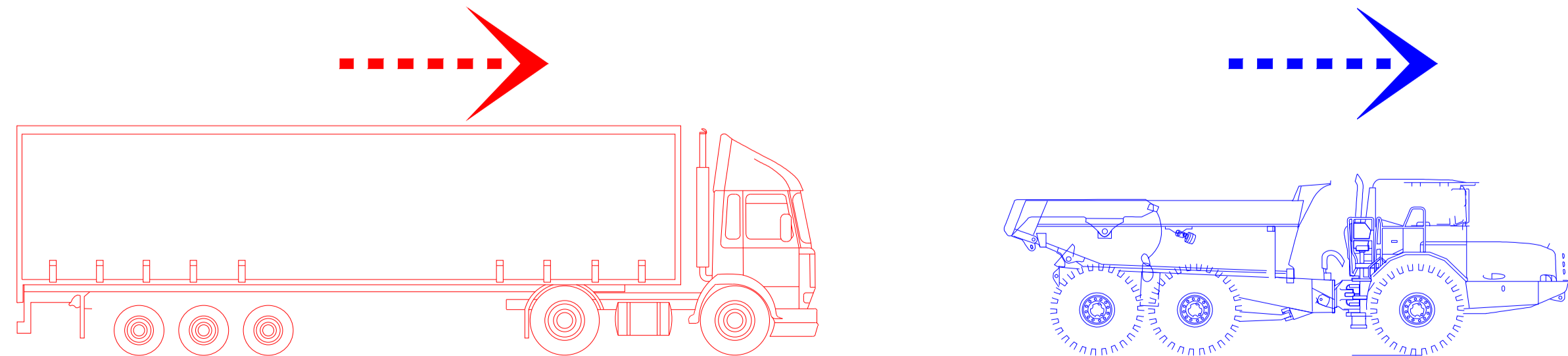
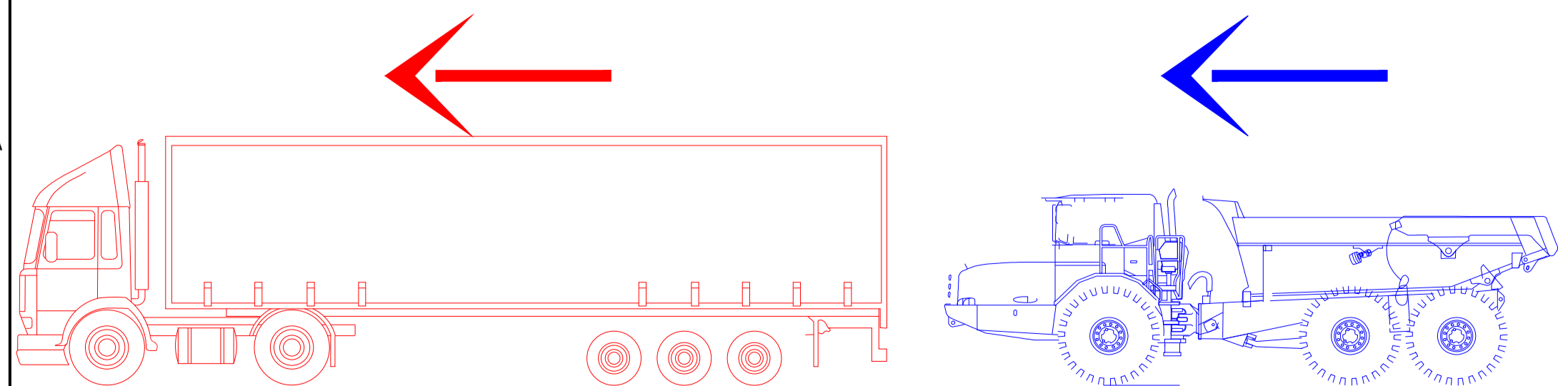
FEHILY TIMONEY & COMPANY
CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
W: www.fehilytimoney.ie, E: info@ftco.ie
Core House, Pouladuff Rd, Cork, Ireland.
T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
T: +353-1-6583500, F: +353-1-6583501



STOCKPILE 1 - RECEIVING, STOCKPILE 2 - TO CELL

STOCKPILE 2 - RECEIVING, STOCKPILE 1 - TO CELL



Offsite Artic Delivery To Site

Onsite Dump Truck Delivery To Cell

Offsite Artic Leaving Site

Onsite Dump Truck Returning From Cell

Rev.	Drawn	CHK'd	App'd	Rev Origin	Date	Description
A	CJC	BC		Cork	10.07.18	Issue For Planning Application

Revision History						
A						EAIR

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
TRAFFIC MANAGEMENT IBA FACILITY

Scales Used
1:1000

This Drawing was printed to A1-

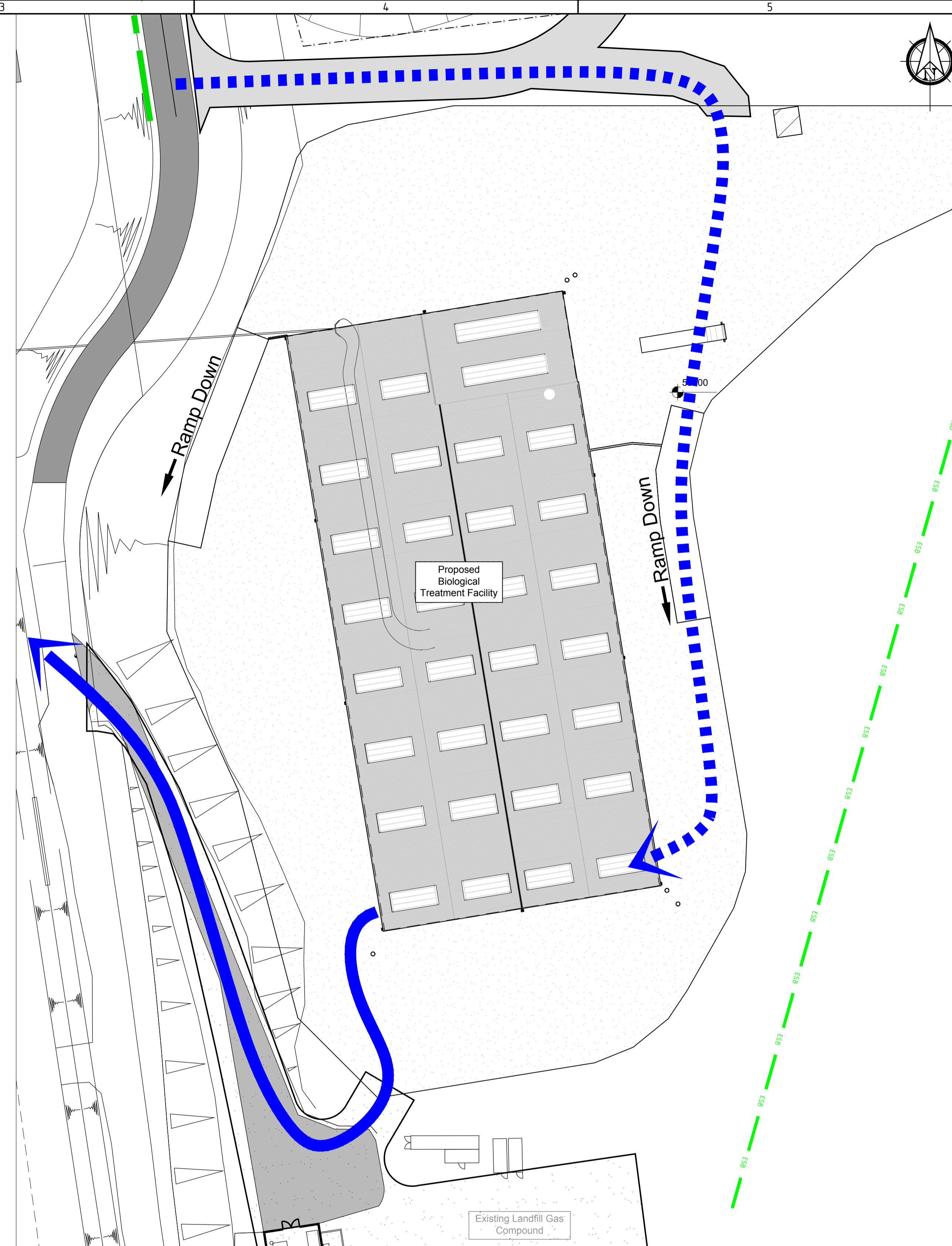
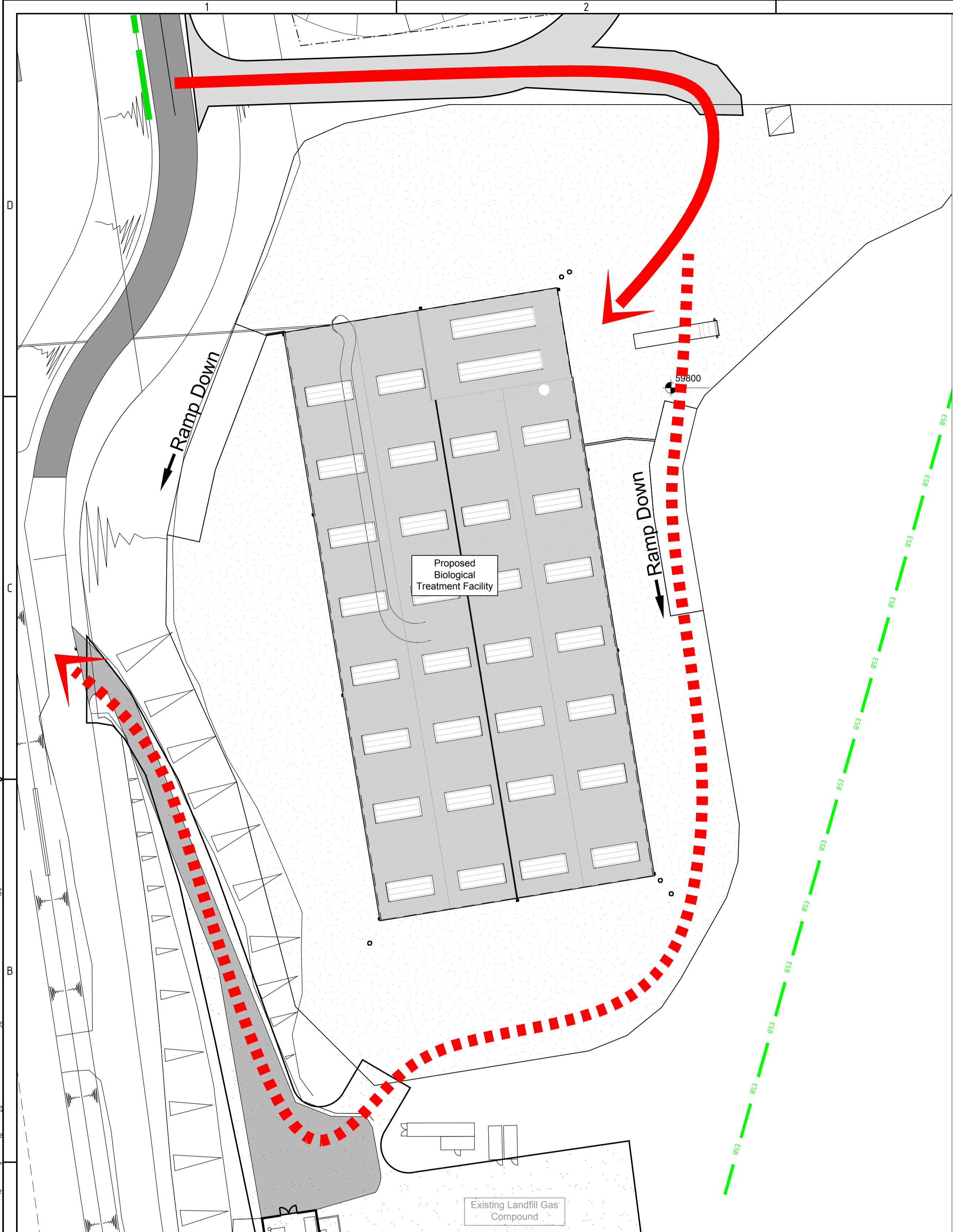
Dwg. No.
LW14-821-01-P-0050-007

Rev.
A

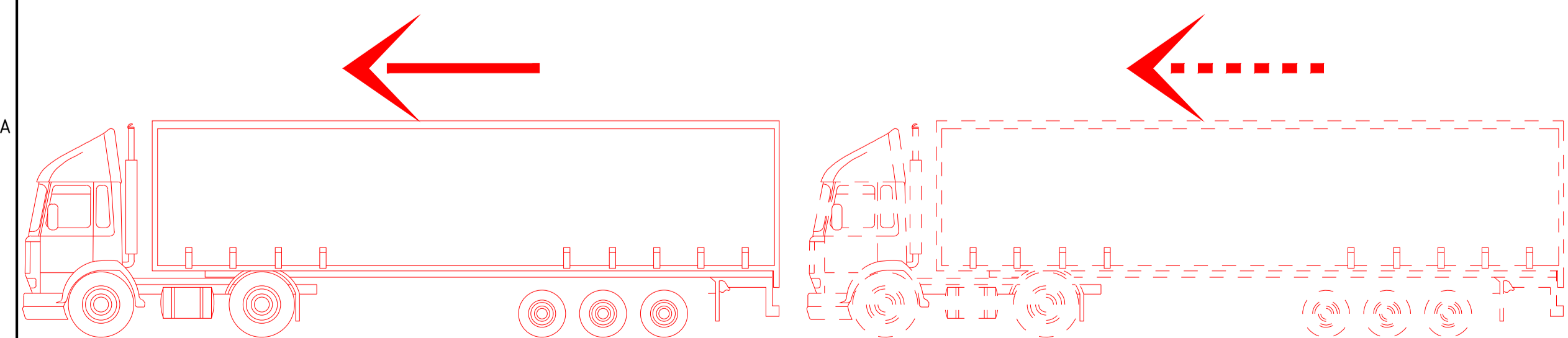
FEIHLY TIMONEY & COMPANY
CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
W: www.feihlytimoney.ie, E: info@ftco.ie
Core House, Pouladuff Rd, Cork, Ireland.
T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
T: +353-1-6583500, F: +353-1-6583501

NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!



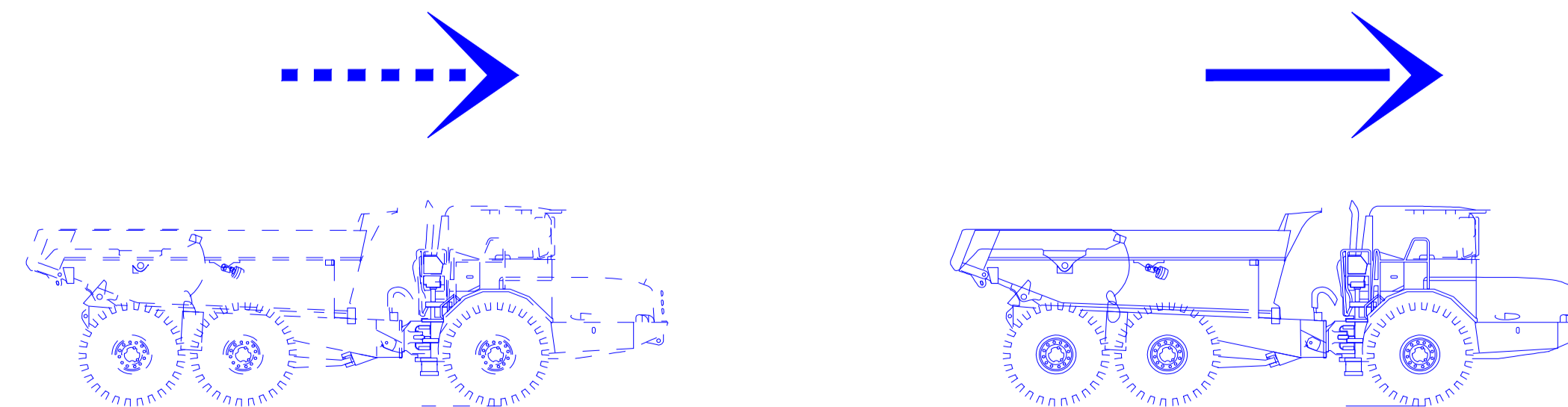
BIOLOGICAL TREATMENT BUILDING RECEIVING WASTE



Offsite Artic Delivery To Site

Offsite Artic Leaving To Site

BIOLOGICAL TREATMENT BUILDING TRANSFERING TO CELL



Onsite Dump Truck Returning From Cell Empty

Onsite Dump Truck Returning To Cell Loaded

Rev.	Drawn	CHK'd	App'd	Rev Origin	Date	Description
A	CIC	BC		Cork	10.07.18	Issue For Planning Application

Revision History		A	IAIR
------------------	--	---	------

Name of Client	
KNOCKHARLEY LANDFILL LTD.	

Name of Job	
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL	

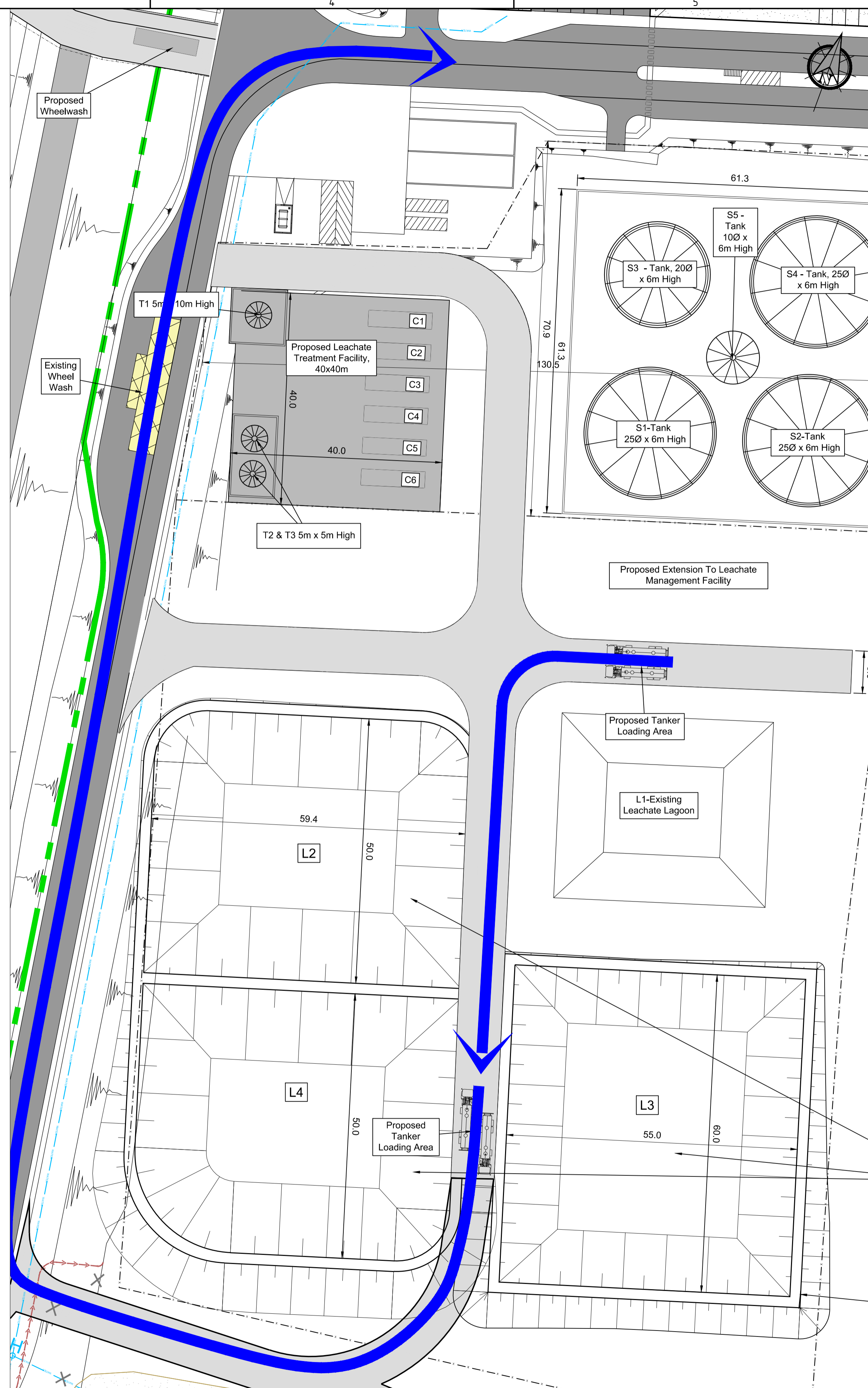
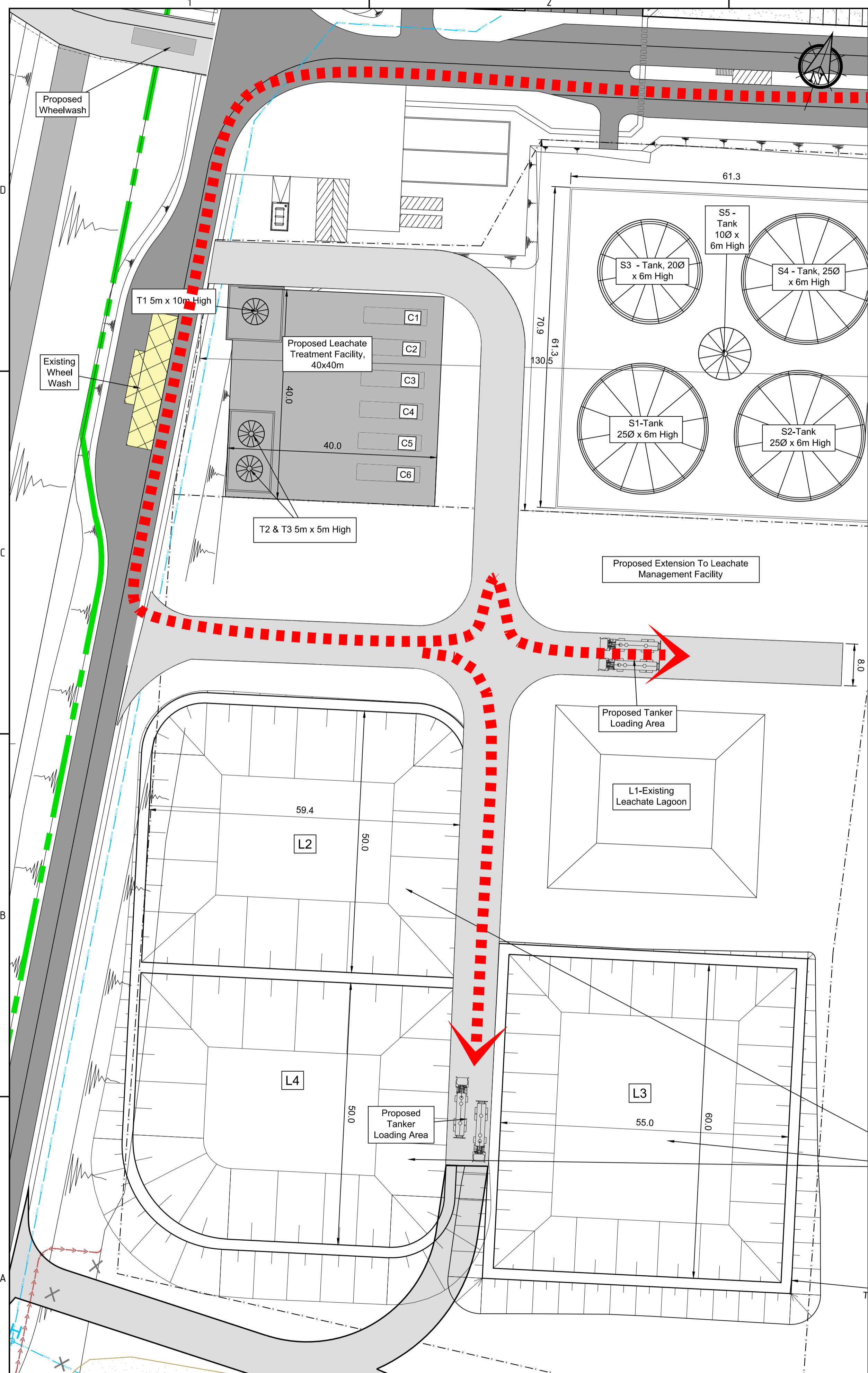
Title of Drawing	
TRAFFIC MANAGEMENT BIOLOGICAL TREATMENT FACILITY	

Scales Used	This Drawing was printed to
1:500	A1-

Dwg. No.	Rev.
LW14-821-01-P-0050-008	A

FEHILY TIMONEY & COMPANY CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
 W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501

NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fahily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

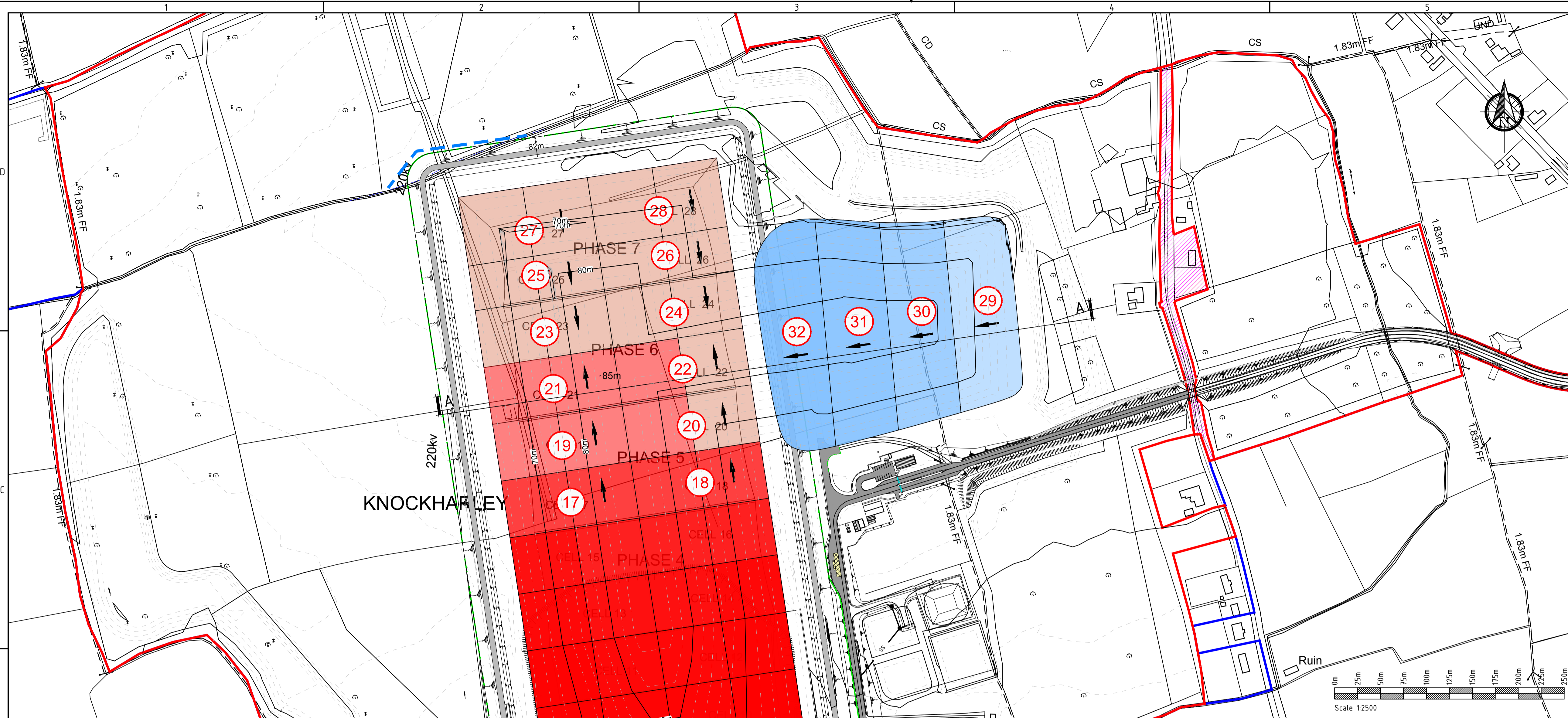


EMPTY TANKER INTO LEACHATE TREATMENT FACILITY

TANKER OUT OF LEACHATE TREATMENT FACILITY

Rev.	Drawn	CHKD	Appd	Rev Origin	Date	Description
A	C/C	BC		Cork	10.07.18	Issue For Planning Application
Revision History A						
Name of Client						
KNOCKHARLEY LANDFILL LTD.						
Name of Job						
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL						
Title of Drawing						
TRAFFIC MANAGEMENT LEACHATE MANAGEMENT FACILITY						
Scales Used						This Drawing was printed to
1:500						A1
Dwg. No.						Rev.
LW14-821-01-P-0050-009						A

FEHILY TIMONEY & COMPANY
 CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
 W: www.fehilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Feihly Timoney & Company as copyright holder except as agreed as per use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary
- Existing Wayleave
- Refer to dwg P-0000-BDY For Clarity
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Residual Non Stabilised
- Inert Stabilised
- IBA
- Direction Of Waste Placement
- Cell Number

Rev.	Drawn	SK	CHK'd	CJC	App'd	BC	Cork	10.07.18	Issue For Planning Application
------	-------	----	-------	-----	-------	----	------	----------	--------------------------------

Rev.	Drawn	SK	CHK'd	CJC	App'd	BC	Rev Origin	Date	Description
Revision History A									EIAR

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

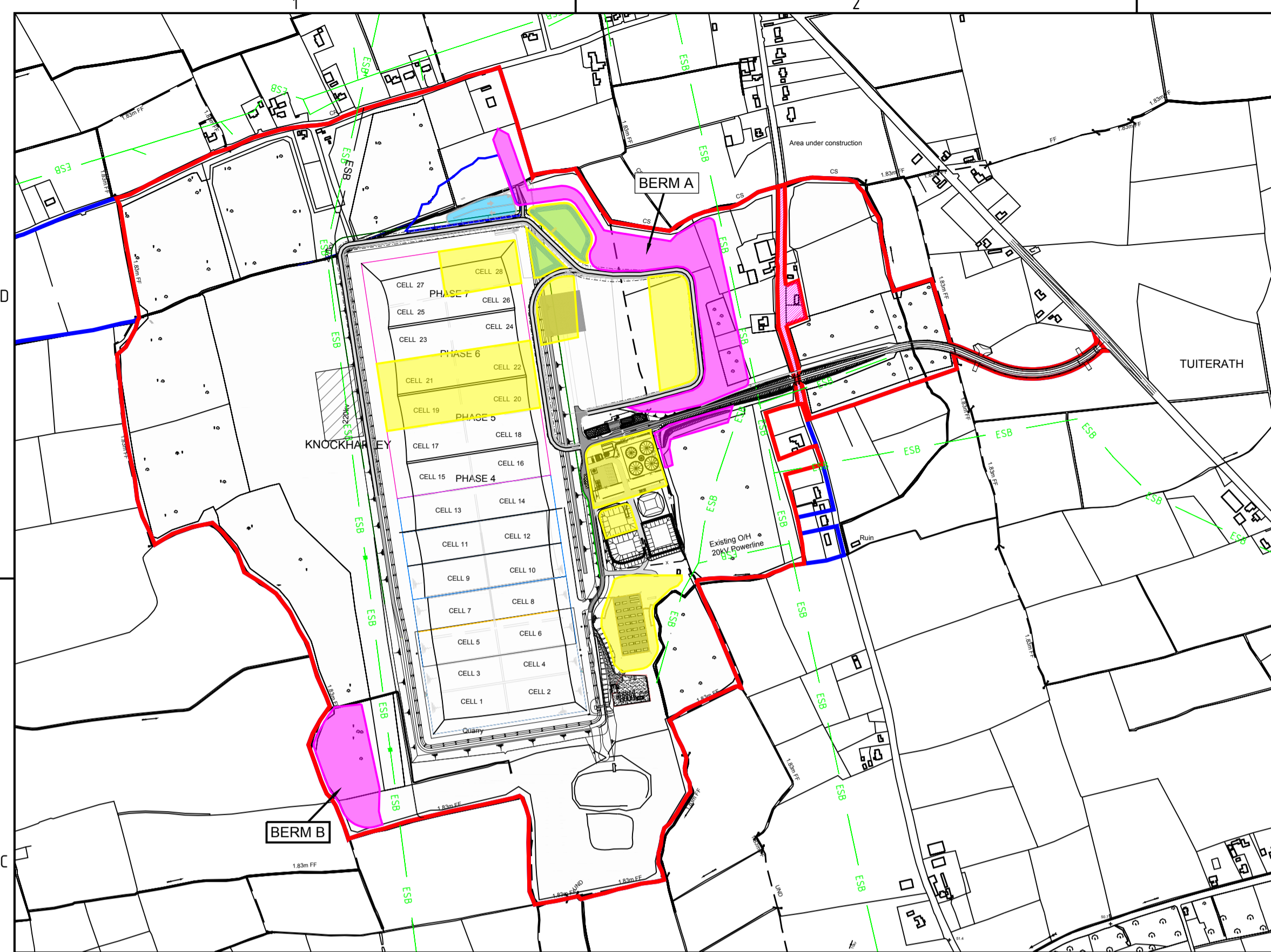
Title of Drawing
PROPOSED CELL FILLING

Scales Used	This Drawing was printed to
1:2500	A1.
Dwg. No.	Rev.
LW14-821-01-P-0050-010	A

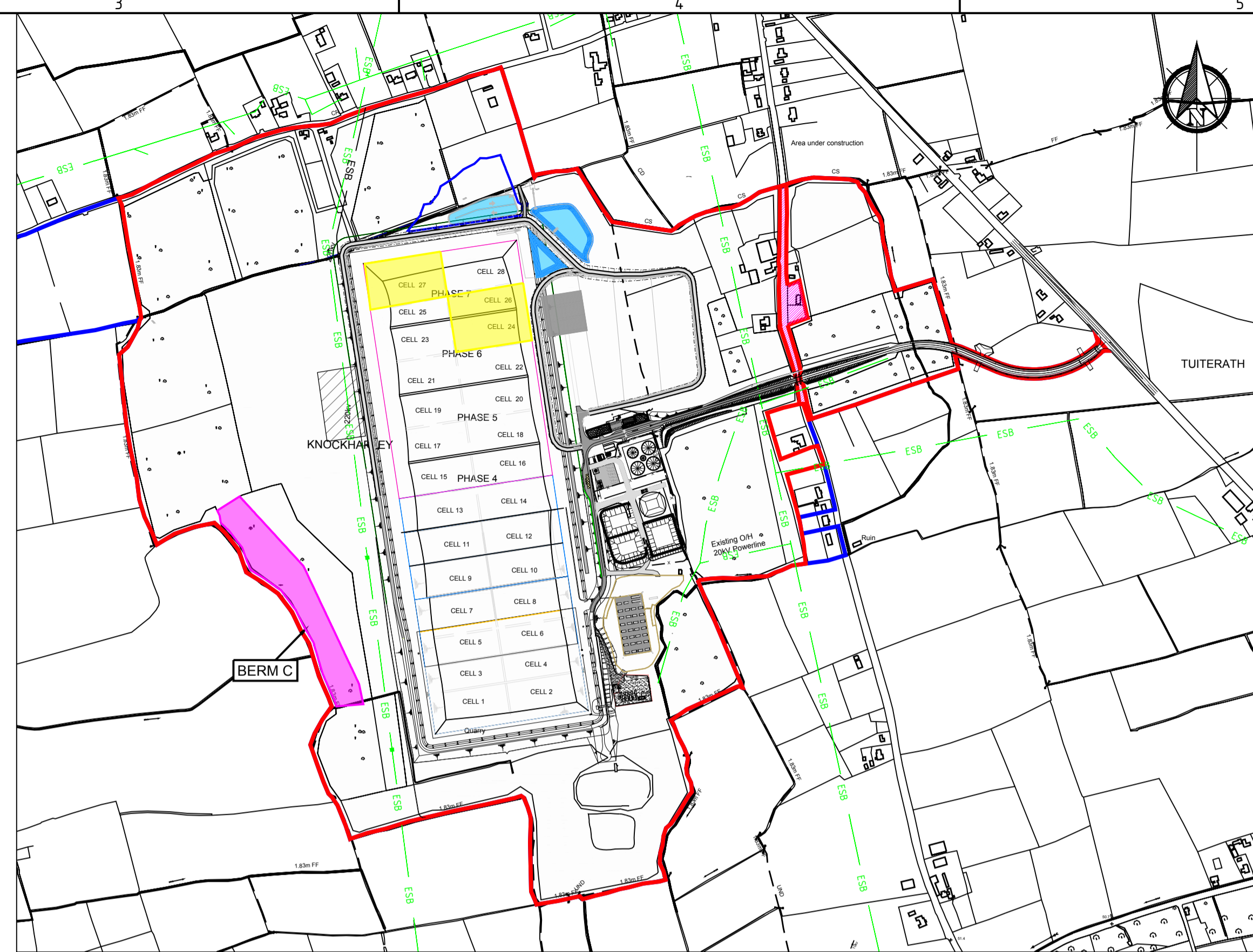
FEIHLY TIMONEY & COMPANY
 CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
 W: www.feihlytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501



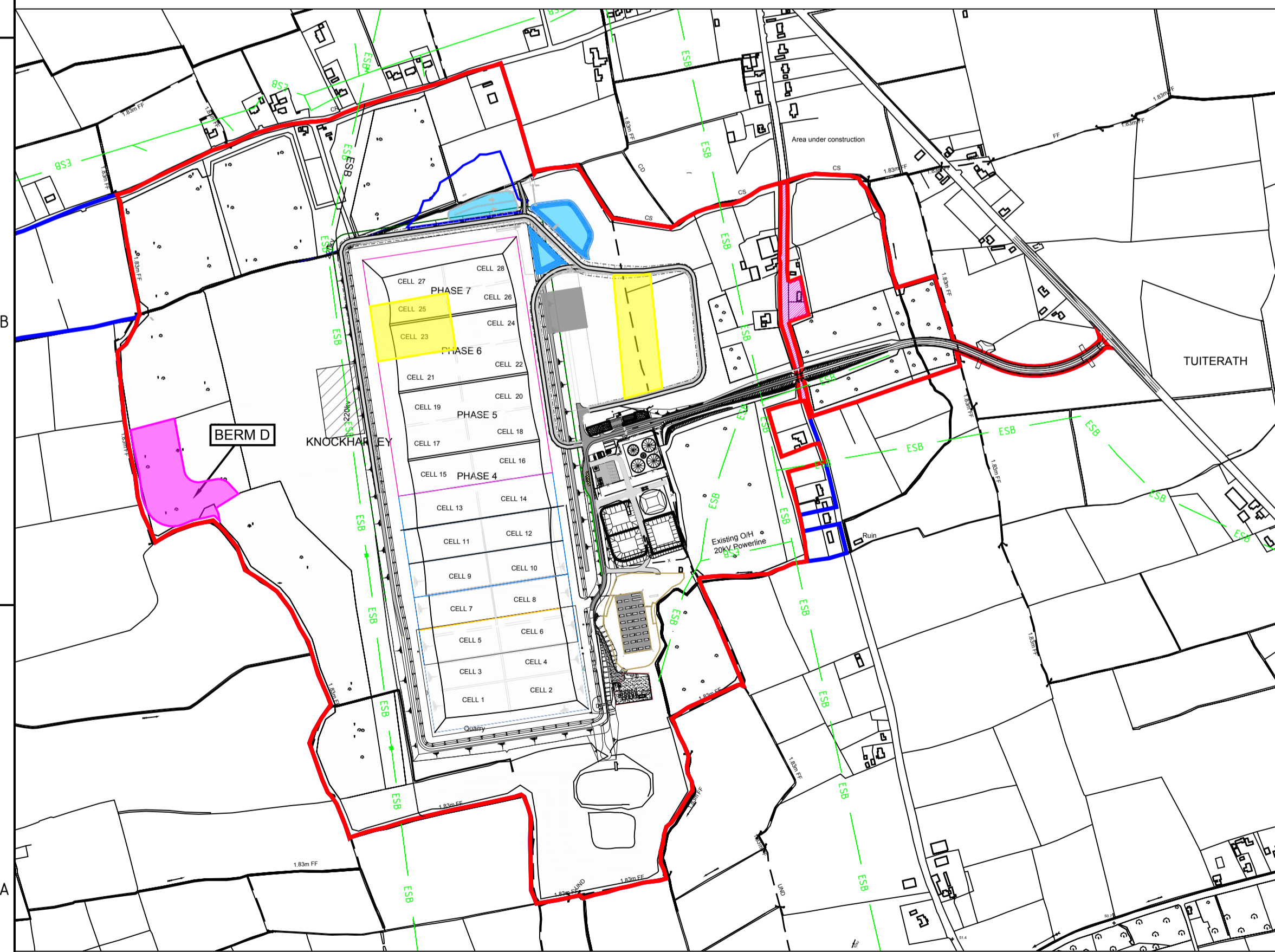
SECTION A-A (Scale 1:1000)



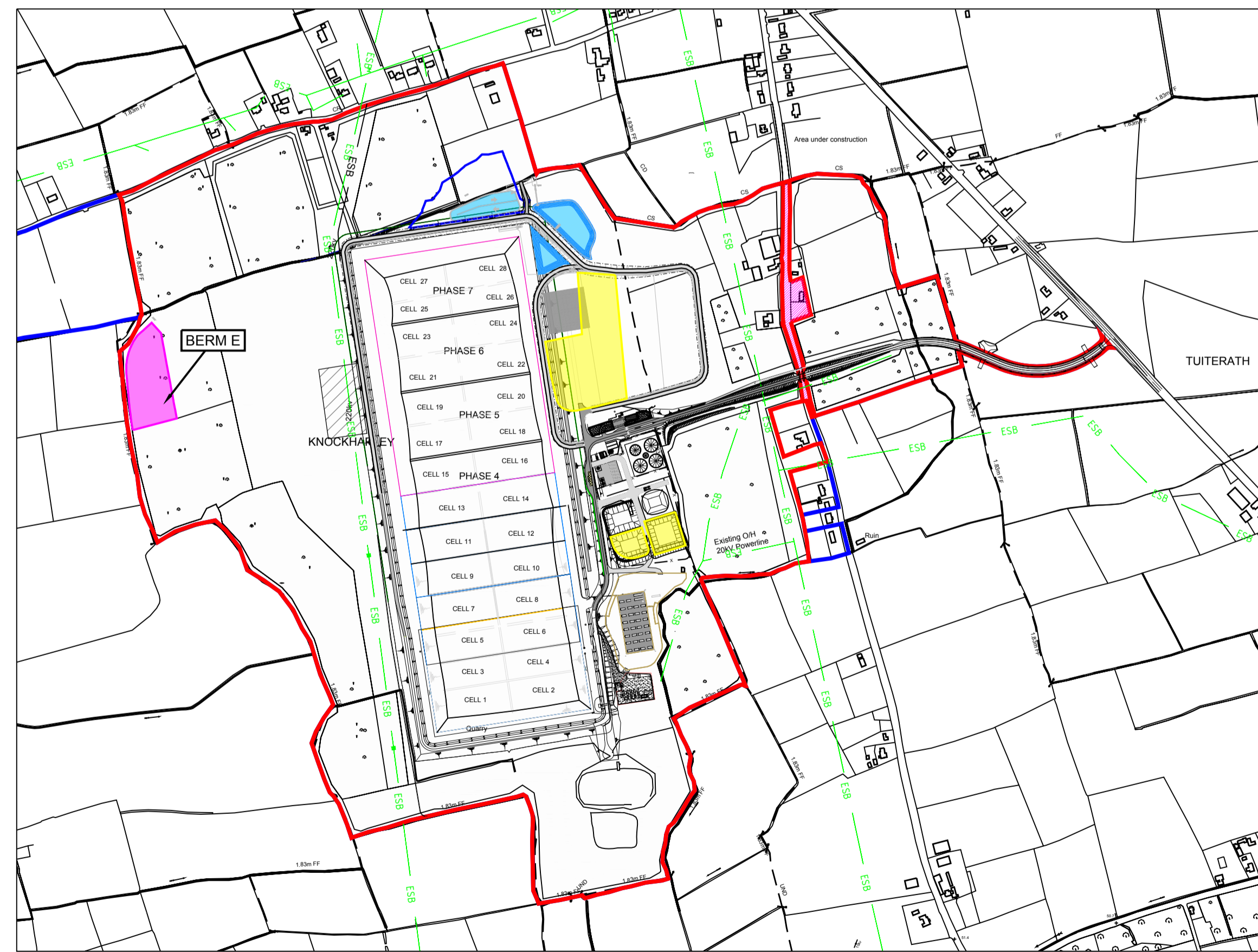
- a. CUT - Construction year 0, 1 & 2
- b. BERM FILL - Construction year 0, 1 & 2
- c. Temporary stockpile area.



- a. CUT - Construction year 3 & 4
- b. BERM FILL - Construction year 3 & 4
- c. Temporary stockpile area.



- a. CUT - Construction year 5 & 6
- b. BERM FILL - Construction year 5 & 6
- c. Temporary stockpile area.



- a. CUT - Construction year 7 & 8
- b. BERM FILL - Construction year 7 & 8
- c. Temporary stockpile area.

NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Feihly Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Notes	
1	Refer to Chapter 2 Proposed Development - Section Construction Phase Methodology.
2	Refer to Dwg LW14-821-01-P-0050-003 for Proposed felling and Compensatory Planting Details.
3	Earthwork phasing associated with capping omitted for clarity on Dwg. Capping under prevailing waste license conditions typically requires a cap to be in place 12 months after waste reaches pre-settlement and will be subject to Specified Engineering Submission to Agency.
4	Construction year 0 refers to ongoing cell works under permitted development. Years 1 + will be subject to grant of permission for proposed development.

SCALE - VERTICAL

100

50

0

50

100

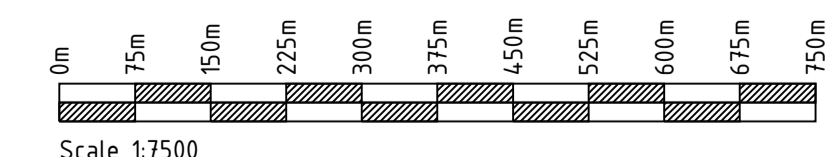
Rev.	Drawn	CHK'd	App'd	Rev Origin	Date	Description
Revision History A						
Name of Client						
KNOCKHARLEY LANDFILL LTD.						
Name of Job						
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL						
Title of Drawing						
CUT/FILL PHASING PLAN						
Scales Used						This Drawing was printed to A1.
1:7500						
Dwg. No.						Rev.
LW14-821-01-P-0050-011						A
O:\ACAD\2014\LW14\01\PLANNING APPLICATION\LW14-821-01-P-0050-011						

FEHILY TIMONEY & COMPANY CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

W: www.feihlytimoney.ie, E: info@ftco.ie

Core House, Pouladuff Rd, Cork, Ireland.
T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
T: +353-1-6383300, F: +353-1-6383301





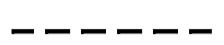

When Applicable - Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland
Ordnance Survey Sheet 2441, 2509, 2509c and 2509d



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Feihly Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
Do not scale. Use figured dimensions only. If in doubt - Ask!

Legend:

-  Forestry Restoration Planting
-  New Forestry Planting
-  Proposed Berm
-  Planning Boundary

RESTORATION & NEW FORESTRY SPECIES:

Botanical name	Common name	%
Alder	<i>Alnus glutinosa</i>	50
Grey Willow	<i>Salix cinerea</i>	10
Downy Birch	<i>Betula pubescens</i>	10
Pedunculate Oak	<i>Quercus robur</i>	10
Hawthorn	<i>Crataegus monogyna</i>	5
Holly	<i>Ilex aquifolium</i>	5
Hazel	<i>Corylus avellana</i>	5
Guelder-rose	<i>Viburnum opulus</i>	5

NOTES:

Species mix adheres to Native Woodland Establishment GPC10; Scenario 4 Gleys/Alder-Oak-Ash Woodland (Department of Agriculture, Food and the Marine) and has been selected with both site soil conditions and biodiversity in mind. Mix Subject to Prevailing Site Conditions.
The planting, ground preparation, and vegetation management will adhere to *Native Woodland Establishment GPC9 & GPC10 Silviculture Standards (Department of Agriculture, Food and the Marine, September 2015)*.
All Planting Will be Disease Free & Native or of Local Provenance.

Planting Subject to Forest Service Licensing

Rev.	Drawn	SK	CHK'd	App'd	Rev Origin	Date	Description
A					Cork	10.07.18	Issue For Planning Application

Revision History A		EIA/R	
Name of Client			
KNOCKHARLEY LANDFILL LTD.			
Name of Job			
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL			
Title of Drawing			
LANDSCAPE PLAN			

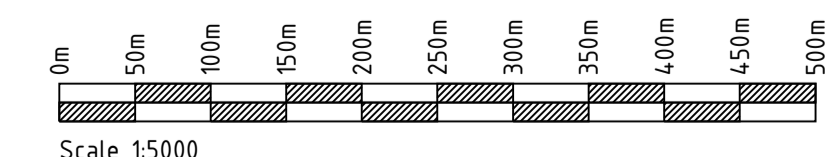
Scale Used	This Drawing was printed to
1:5000	A1-
Dwg. No.	Rev.
LW14-821-01-P-0050-012	A

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEIHLY TIMONEY & COMPANY

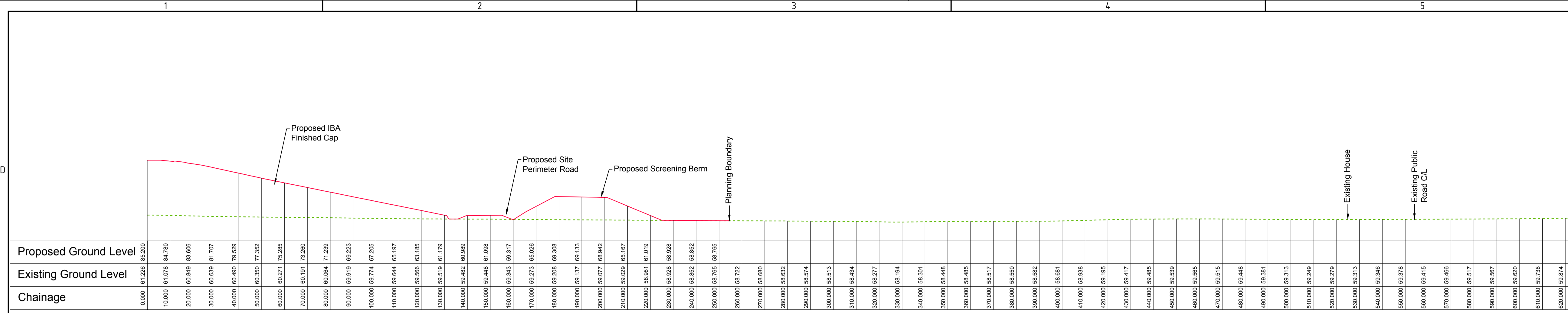
W: www.feihlytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501

© 2018 Microsoft Corporation © 2018 DigitalGlobe ©CNES (2018) Distribution Airbus DS



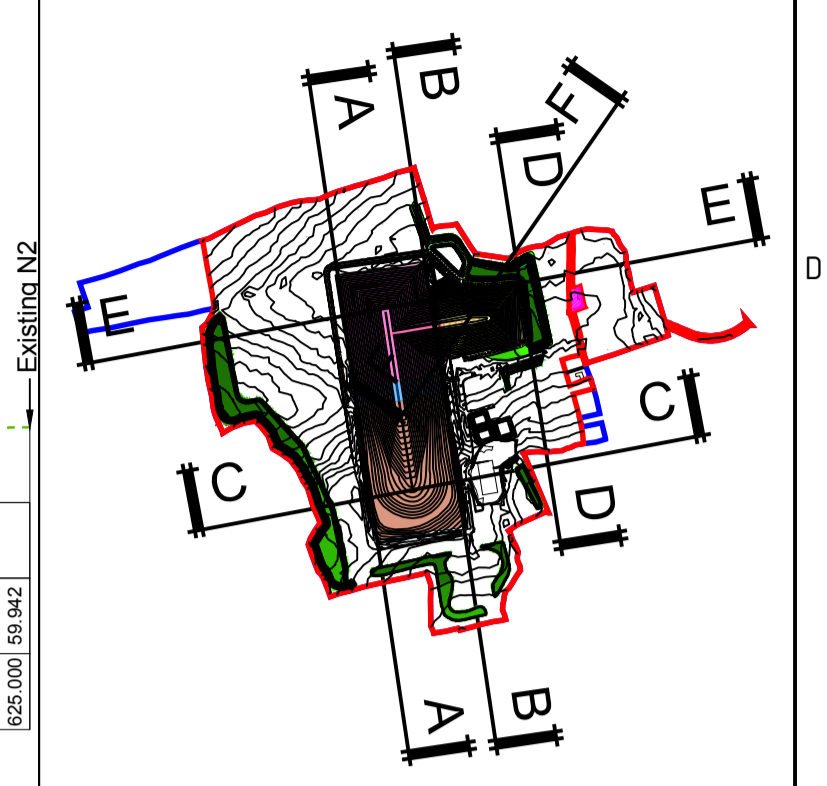
When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland
 Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

SCALE - VERTICAL



SECTION F(0 to 625m)

NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fahily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!



Legend
 Profile
 - - - Existing Ground Line
 - Proposed Finished Ground

Rev.	Drawn	Chkd	App'd	Rev Origin	Description
A	SK	CU	RG	Cork 10.07.18	Issue For Planning Application

Revision History A | EIAR

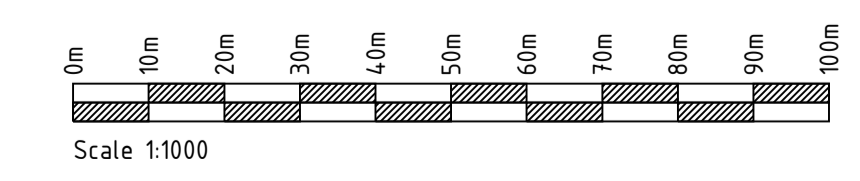
Name of Client
KNOCKHARLEY LANDFILL LTD.

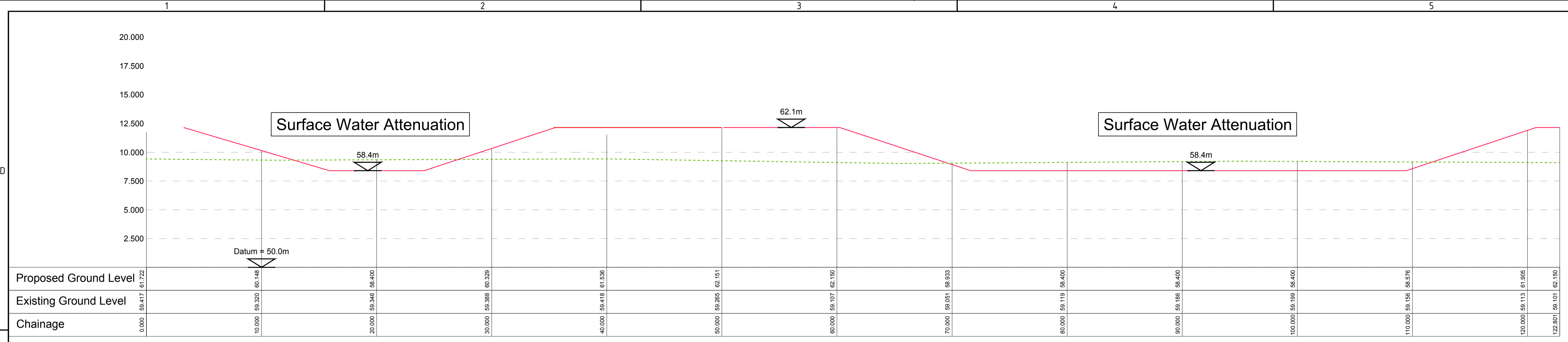
Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
PROPOSED SITE CROSS SECTIONS SHEET 3 OF 3

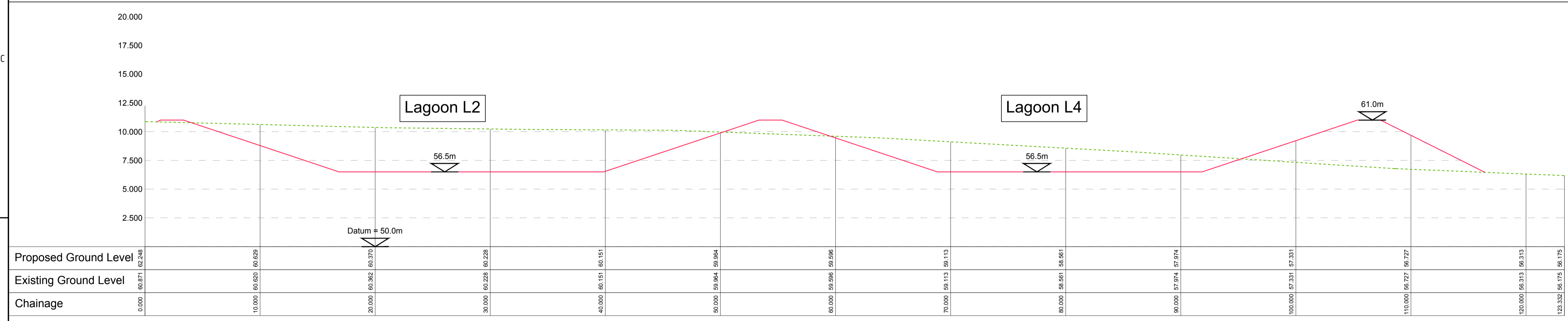
Scales Used
1:1000
 Dwg. No. **LW14-821-01-P-0103-003**
 Rev. **A**

FEHILY TIMONEY & COMPANY
 CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
 W: www.fahilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501

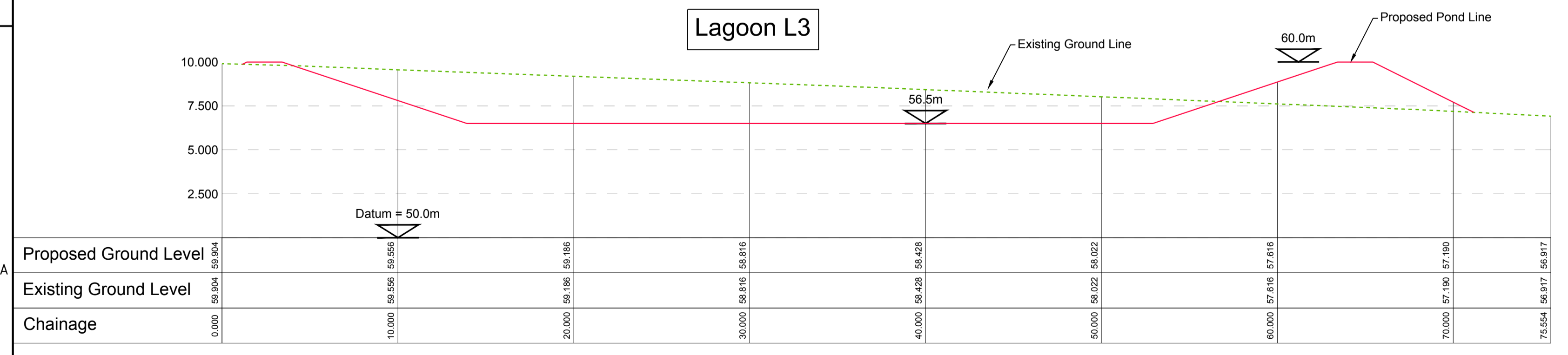




SECTION P1(0 to 123m)

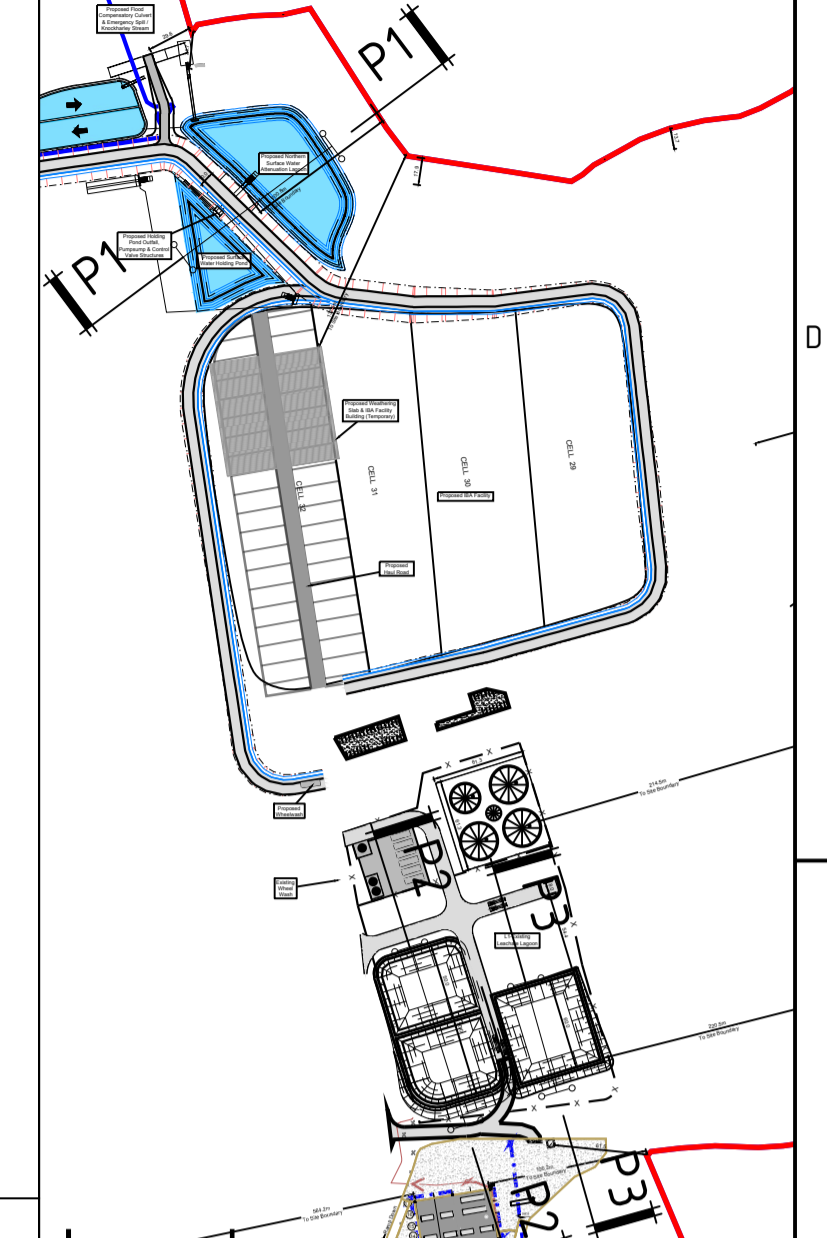


SECTION P2(0 to 123m)



SECTION P3(0 to 76m)

NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fahily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!



Legend

Profile	Existing Ground Line
	Proposed Finished Ground

Rev.	Drawn	SK	CKD	CU	RG	App'd	Rev Origin	Date	Description
A							Cork	10.07.18	Issue For Planning Application

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

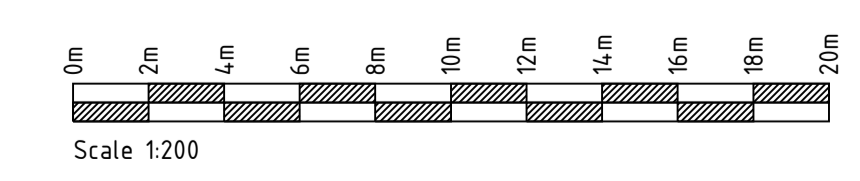
Title of Drawing
PROPOSED CROSS SECTIONS OF POND AND LEACHATE LAGOONS

Scales Used
 1:200
 This Drawing was printed to A1-

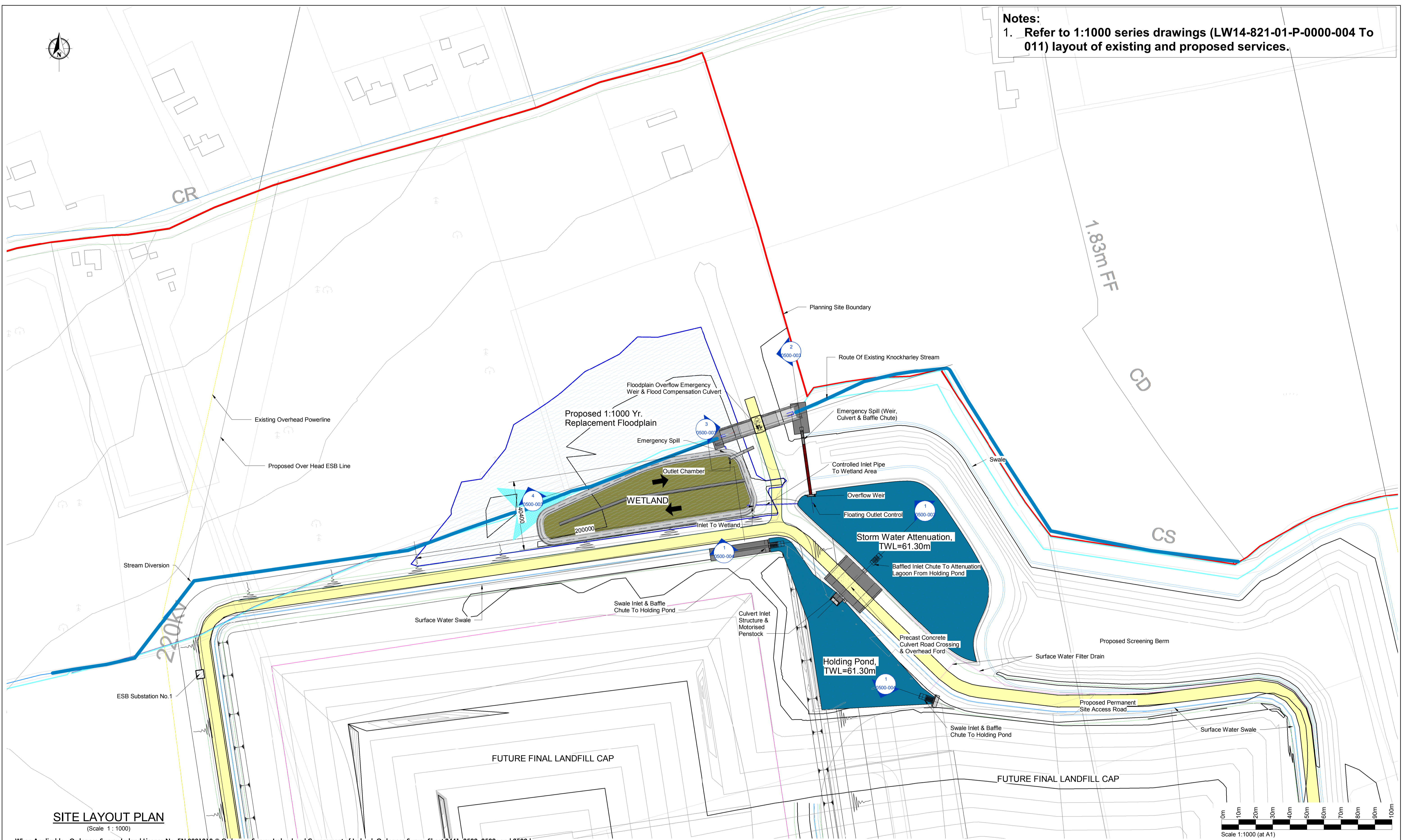
Dwg. No.
 LW14-821-01-P-0103-004

Rev.
 A

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
FEHILY TIMONEY & COMPANY
 W: www.fahilytimoney.ie, E: info@ftco.ie
 Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501



Notes:
 1. Refer to 1:1000 series drawings (LW14-821-01-P-0000-004 To 011) layout of existing and proposed services.



SITE LAYOUT PLAN
 (Scale 1 : 1000)

When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE 0500	STATUS PLANNING	SUITABILITY DESCRIPTION PLANNING	PURPOSE OF ISSUE EIAR
--------------	--------------------	-------------------------------------	--------------------------

PROJECT
 PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

SHEET
 PROPOSED LAYOUT PLAN OF SURFACE WATER MANAGEMENT INFRASTRUCTURE

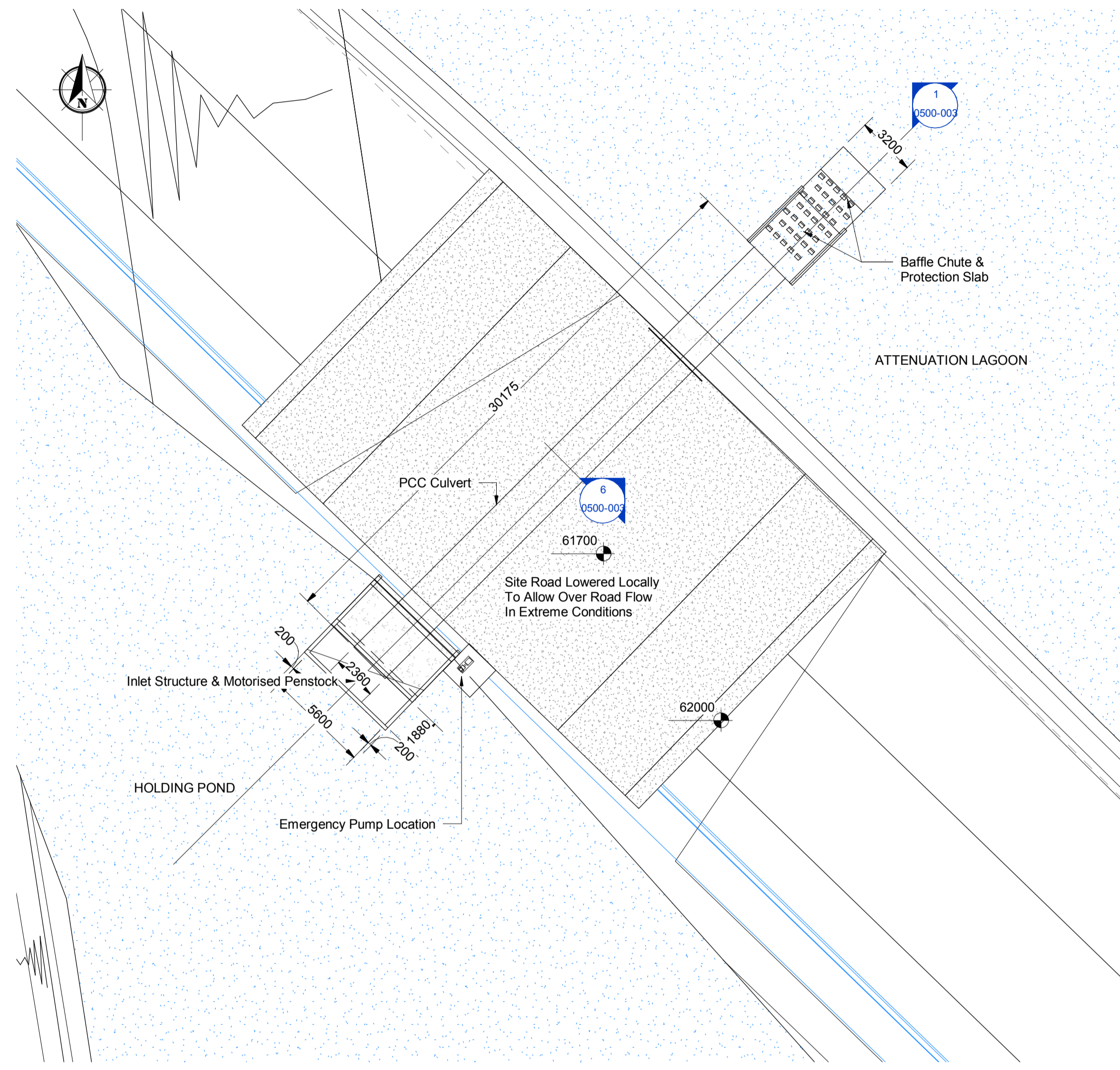
CLIENT
 KNOCKHARLEY LANDFILL Ltd.

Date 09/11/17	Project number LW14-821-01	Scale (@ A1) As indicated
Drawn by SK	Drawing Number LW14-821-01-P-0500-001	Rev A
Checked by CJC		

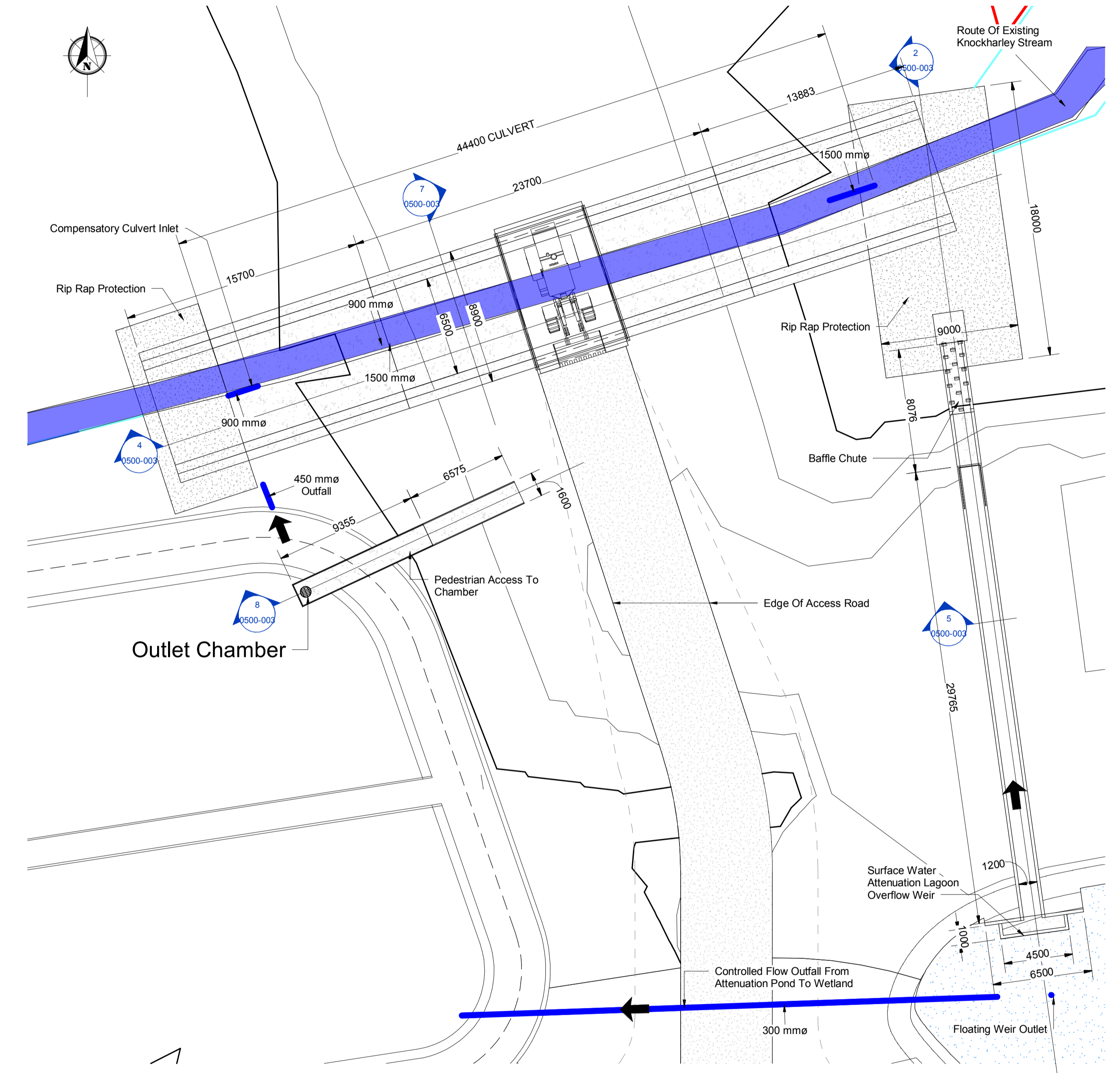
No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 13/07/2018 12:15:45

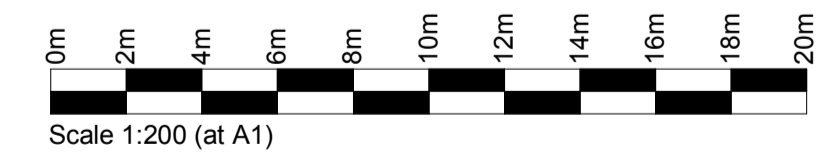
Notes:
 1. Refer to 1:1000 series drawings (LW14-821-01-P-0000-004 To 011) layout of existing and proposed services.



1/200 LAYOUT PLAN OF ATTENUATION INLET STRUCTURE
 (Scale 1 : 200)



1/200 LAYOUT PLAN OF FLOODPLAIN OVERFLOW WEIR AND ATTENUATION POND OVERFLOW
 (Scale 1 : 200)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

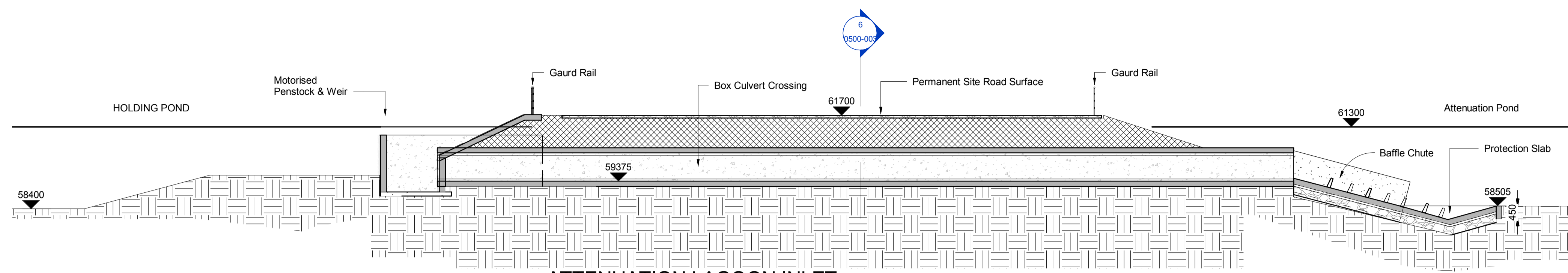
CODE 0500	STATUS	SUITABILITY DESCRIPTION PLANNING	PURPOSE OF ISSUE EIAR
--------------	--------	-------------------------------------	--------------------------

PROJECT	PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL
SHEET	SURFACE WATER MANAGEMENT INFRASTRUCTURE LAYOUT PLANS

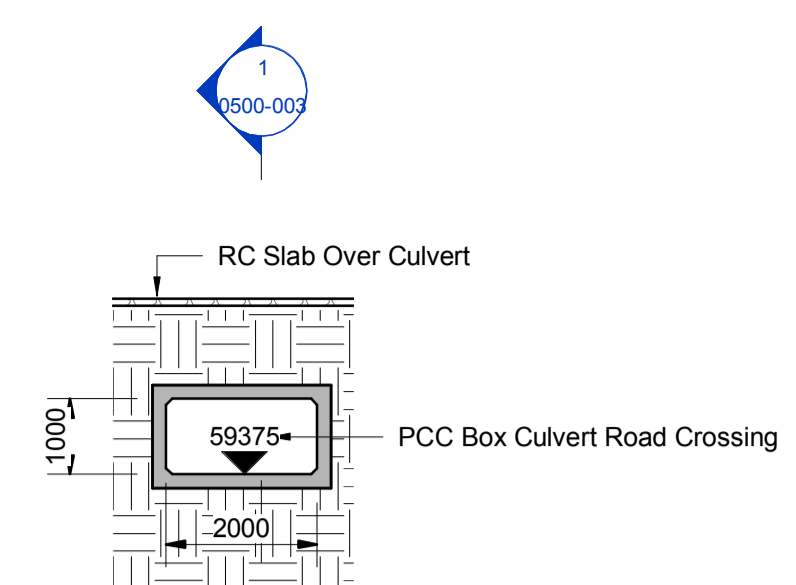
CLIENT KNOCKHARLEY LANDFILL Ltd.		
Date 09/11/17	Project number LW14-821-01	Scale (@ A1) As indicated
Drawn by SK	Drawing Number LW14-821-01-P-0500-002	Rev A
Checked by CJC		

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

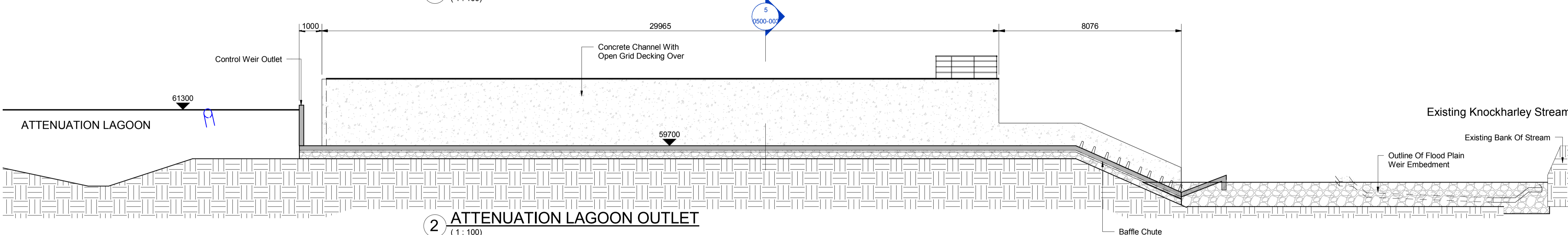
Drawing printed: 09/07/2018 10:29:24



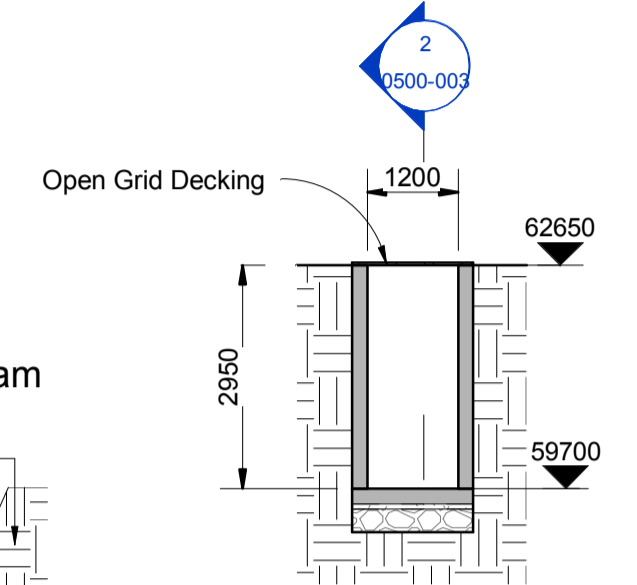
1 ATTENUATION LAGOON INLET
(1 : 100)



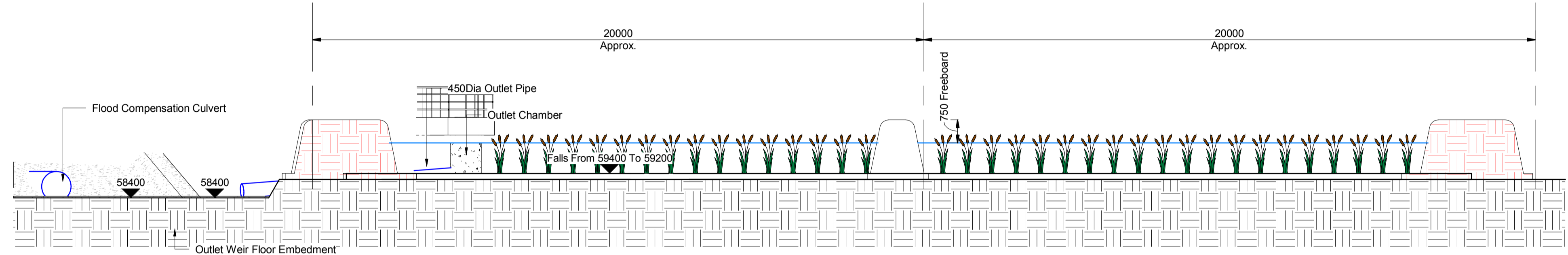
SECTION 6
(Scale 1 : 100)



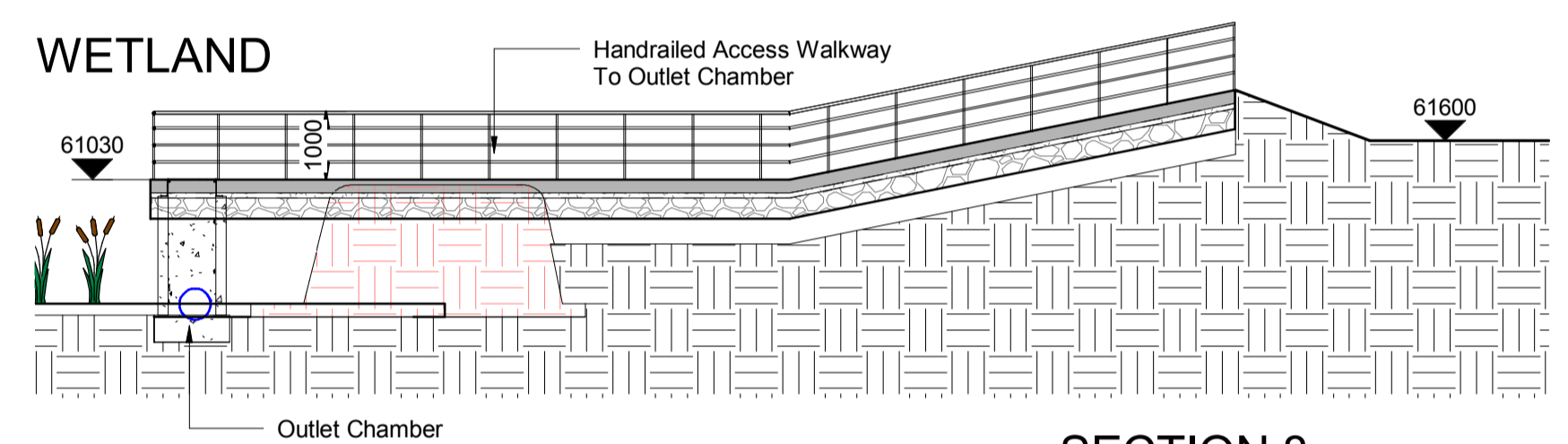
2 ATTENUATION LAGOON OUTLET
(1 : 100)



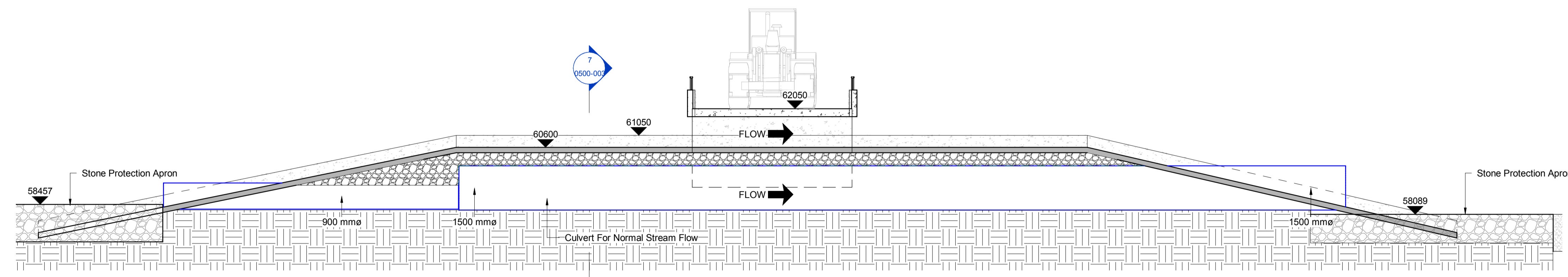
SECTION 5
(Scale 1 : 100)



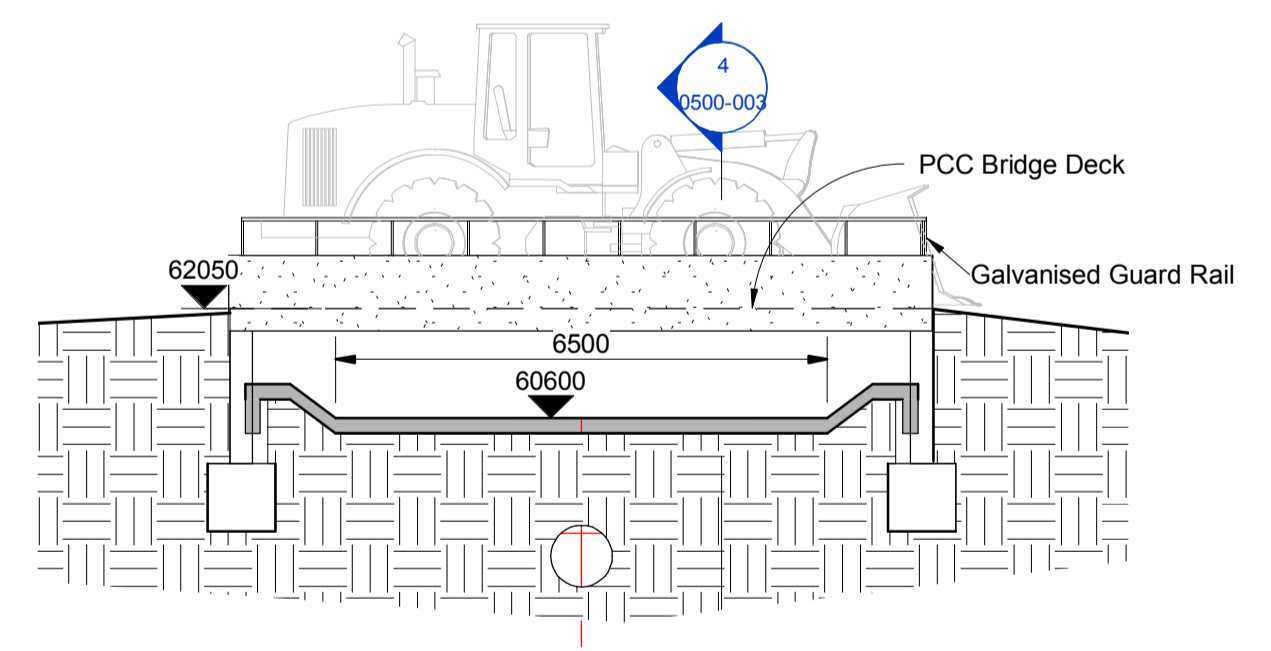
3 CROSS SECTION THRU' WETLAND
(1 : 100)



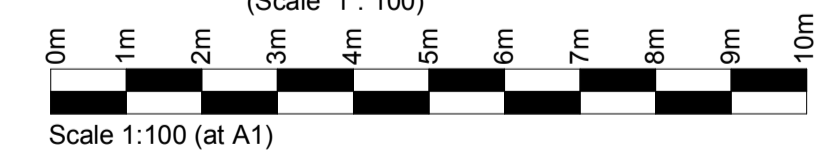
SECTION 8
(Scale 1 : 100)



4 FLOOD PLAIN EMERGENCY OVERFLOW WEIR 1000yr KNOCKHARLEY STREAM
(1 : 100)



SECTION 7
(Scale 1 : 100)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

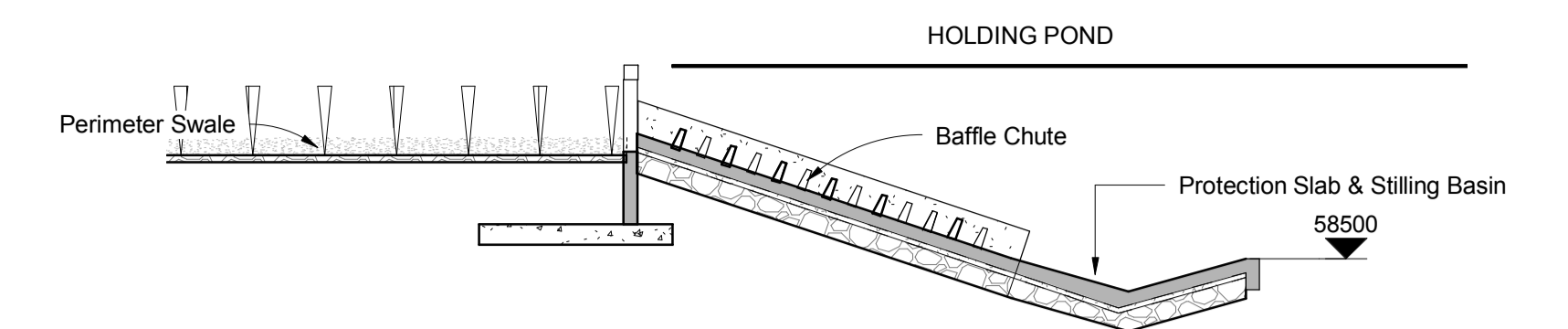
CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0500		PLANNING	EIAR

PROJECT	PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL
SHEET	PROPOSED SURFACE WATER INFRASTRUCTURE CROSS SECTIONS

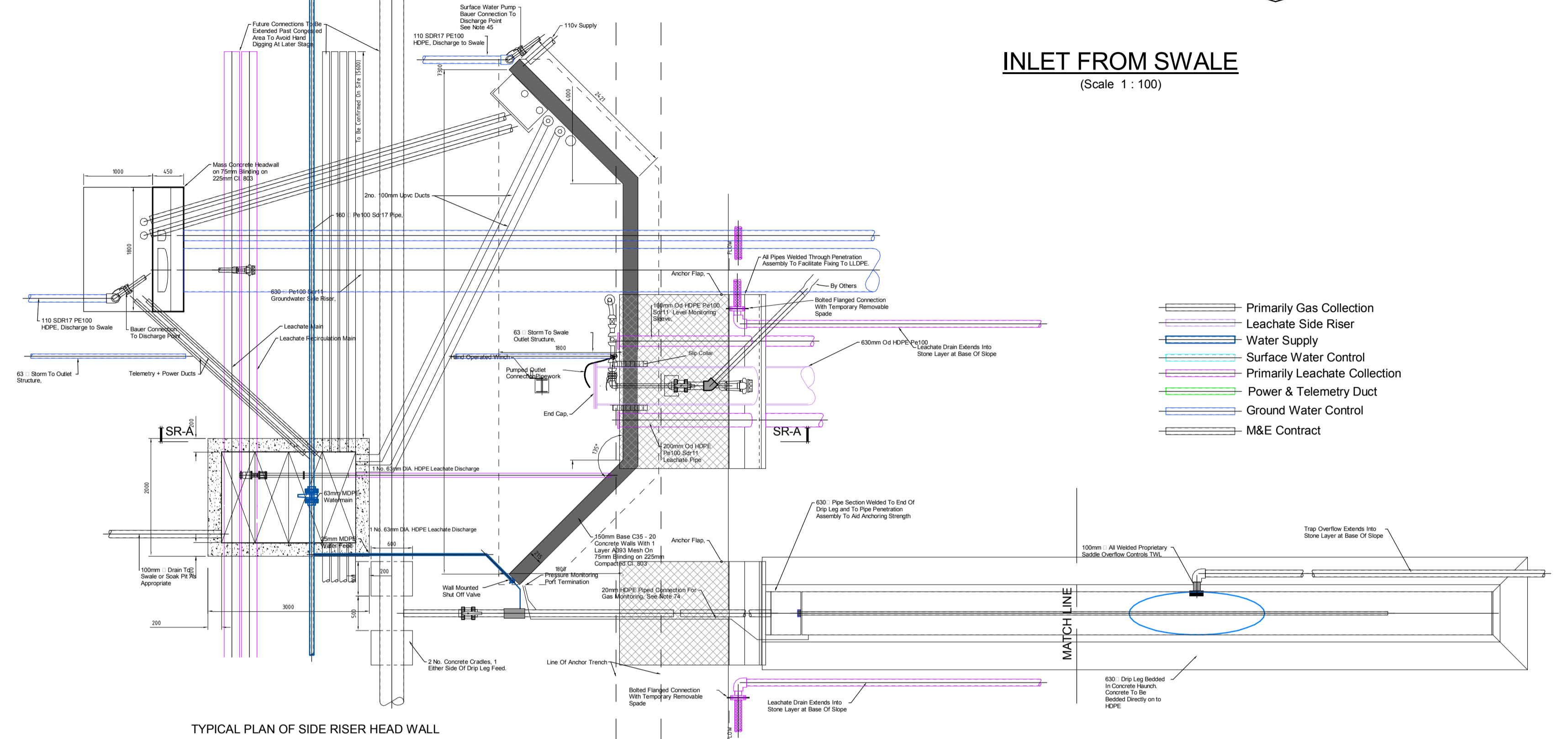
CLIENT		KNOCKHARLEY LANDFILL Ltd.	
Date	09/11/17	Project number	LW14-821-01
Drawn by	SK	Drawing Number	LW14-821-01-P-0500-003
Checked by	CJC	Scale (@ A1)	1 : 100
		Rev	A

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

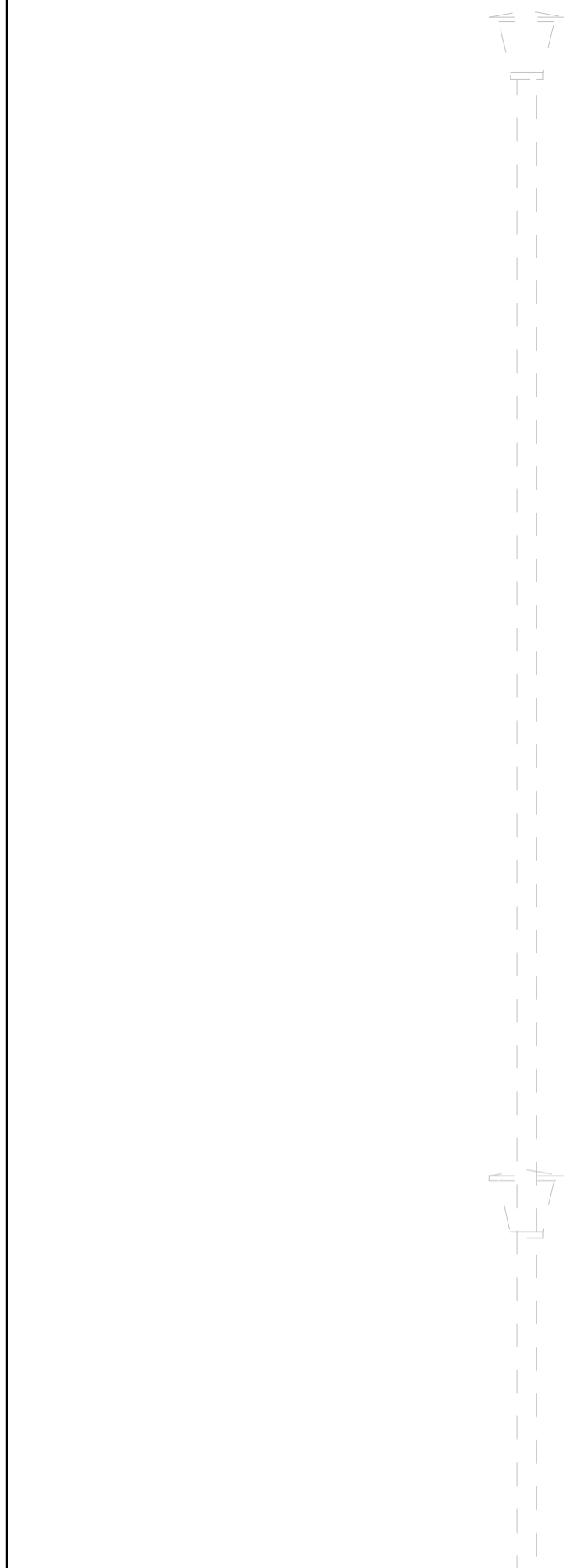
Drawing printed: 09/07/2018 10:29:26



INLET FROM SWALE
(Scale 1 : 100)



TYPICAL PLAN OF SIDE RISER HEAD WALL



CCTV CAMERA TO BE INSTALLED ON LAMP STANDARD AS PER PLAN SUBJECT TO SITE CONDITIONS

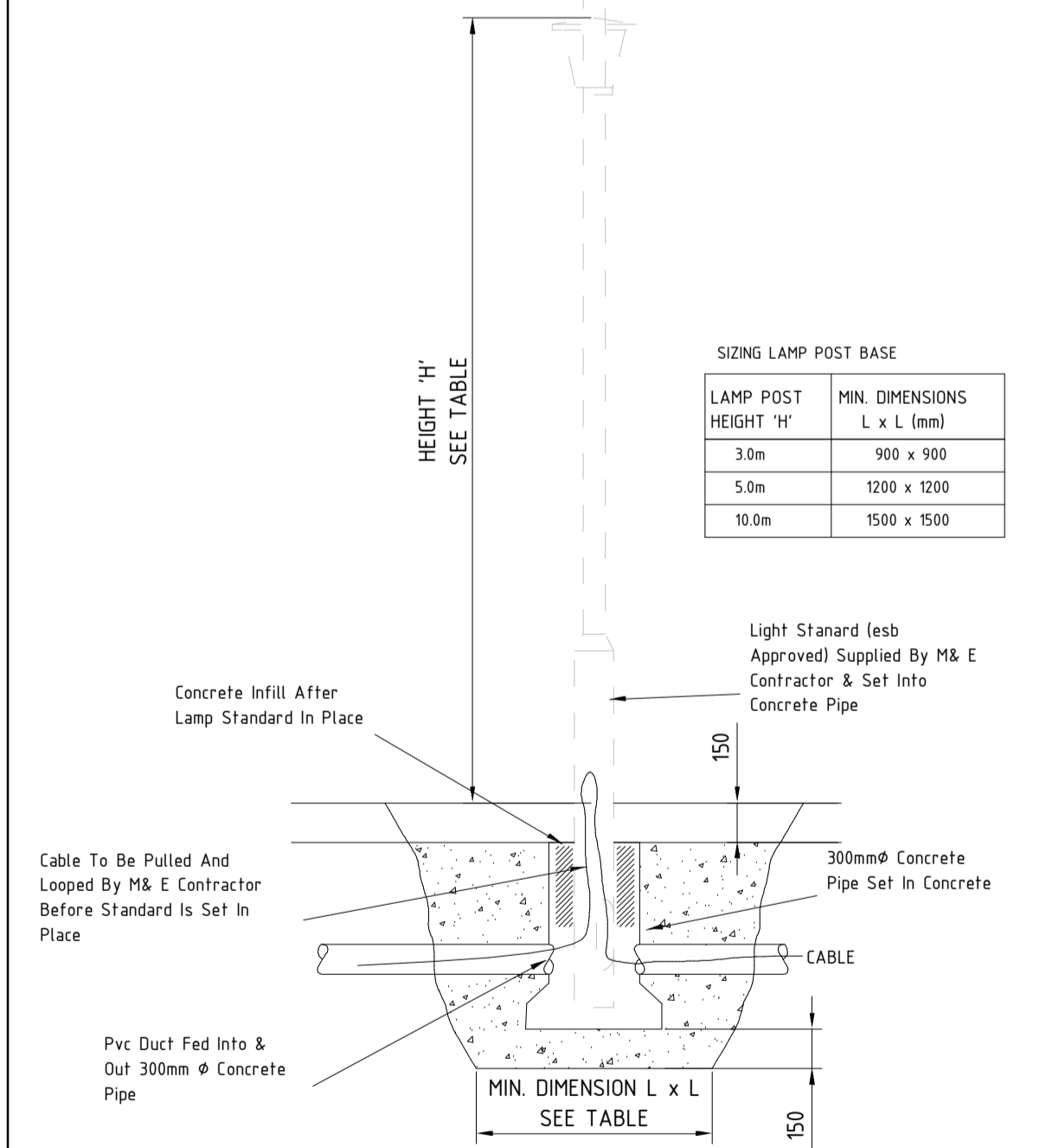
HORIZONTAL CUT-OFF LIGHT FITTING

SIZING LAMP POST BASE

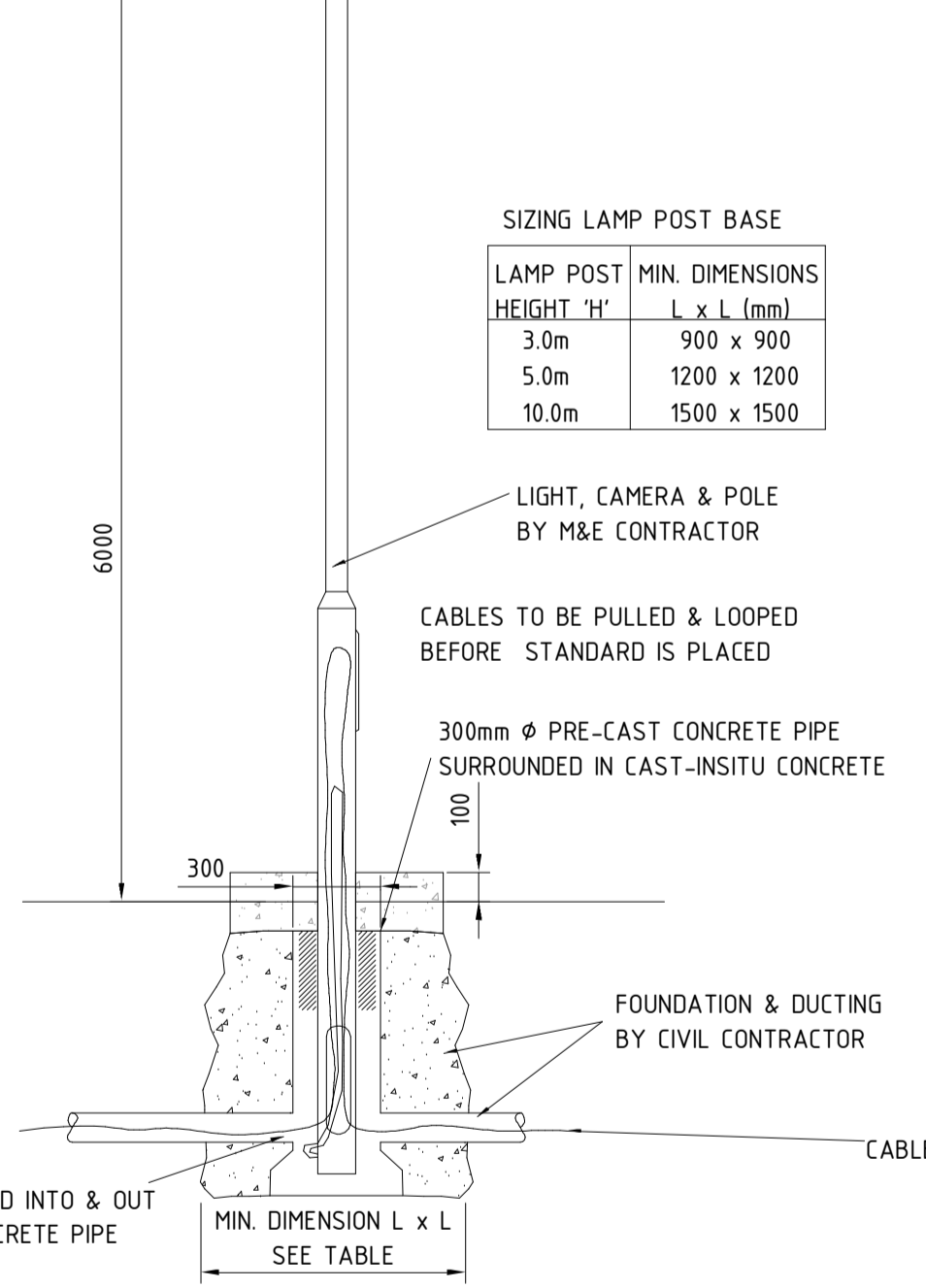
LAMP POST HEIGHT 'H'	MIN. DIMENSIONS L x L (mm)
3.0m	900 x 900
5.0m	1200 x 1200
10.0m	1500 x 1500

SIZING LAMP POST BASE

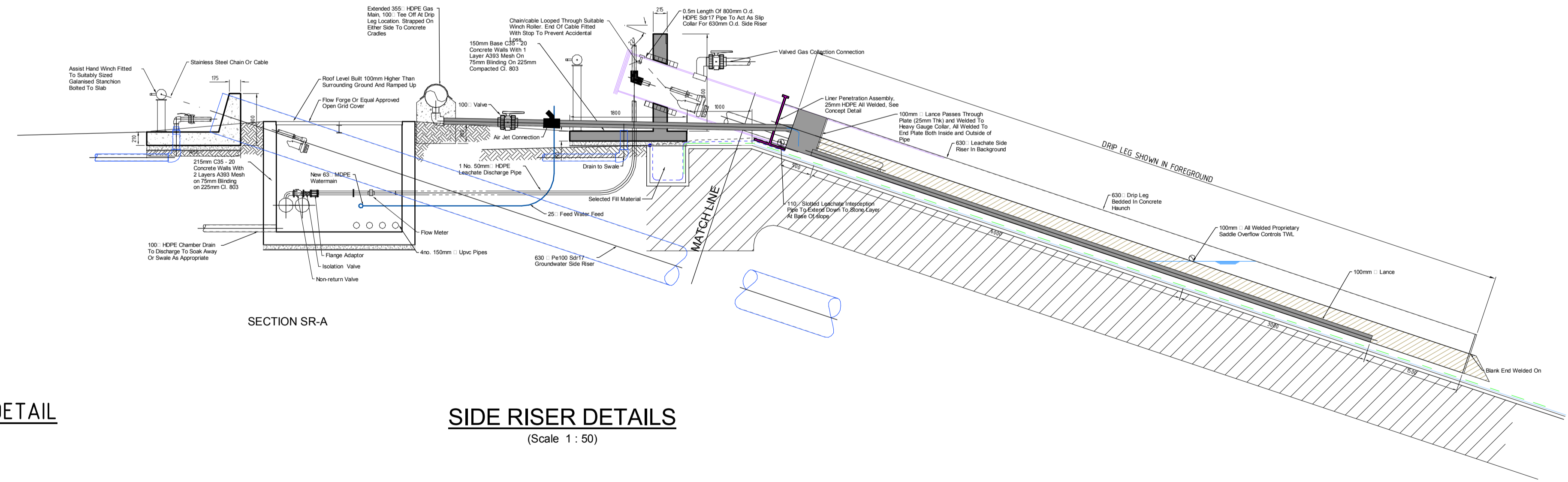
LAMP POST HEIGHT 'H'	L x L (mm)
3.0m	900 x 900
5.0m	1200 x 1200
10.0m	1500 x 1500



TYPICAL LAMP STANDARD DETAIL



TYPICAL LAMP STANDARD + CCTV DETAIL



SIDE RISER DETAILS
(Scale 1 : 50)

Lamp Standard Details

When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d (Scale 1 : 25)

Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0500		PLANNING	EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

SHEET

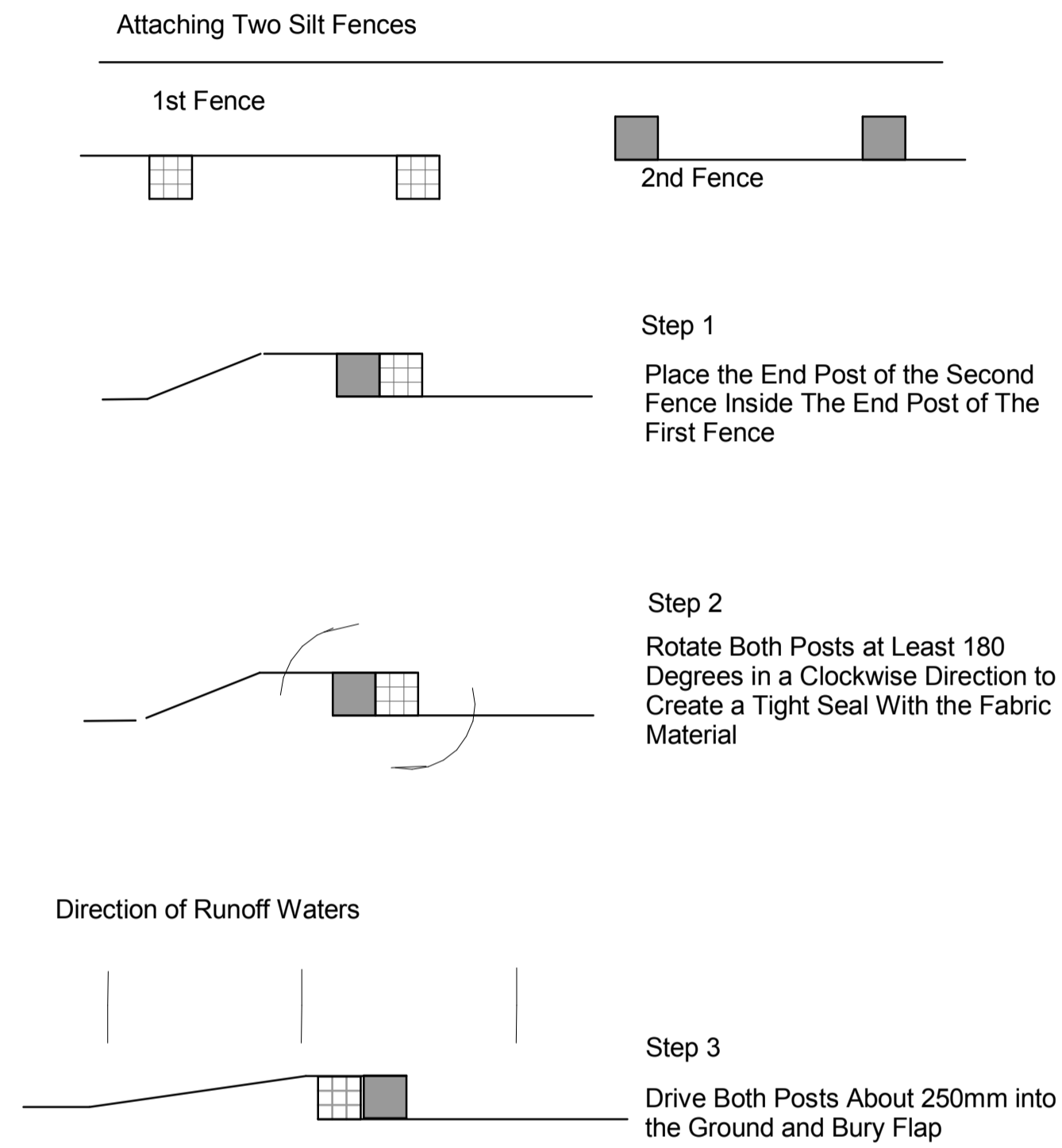
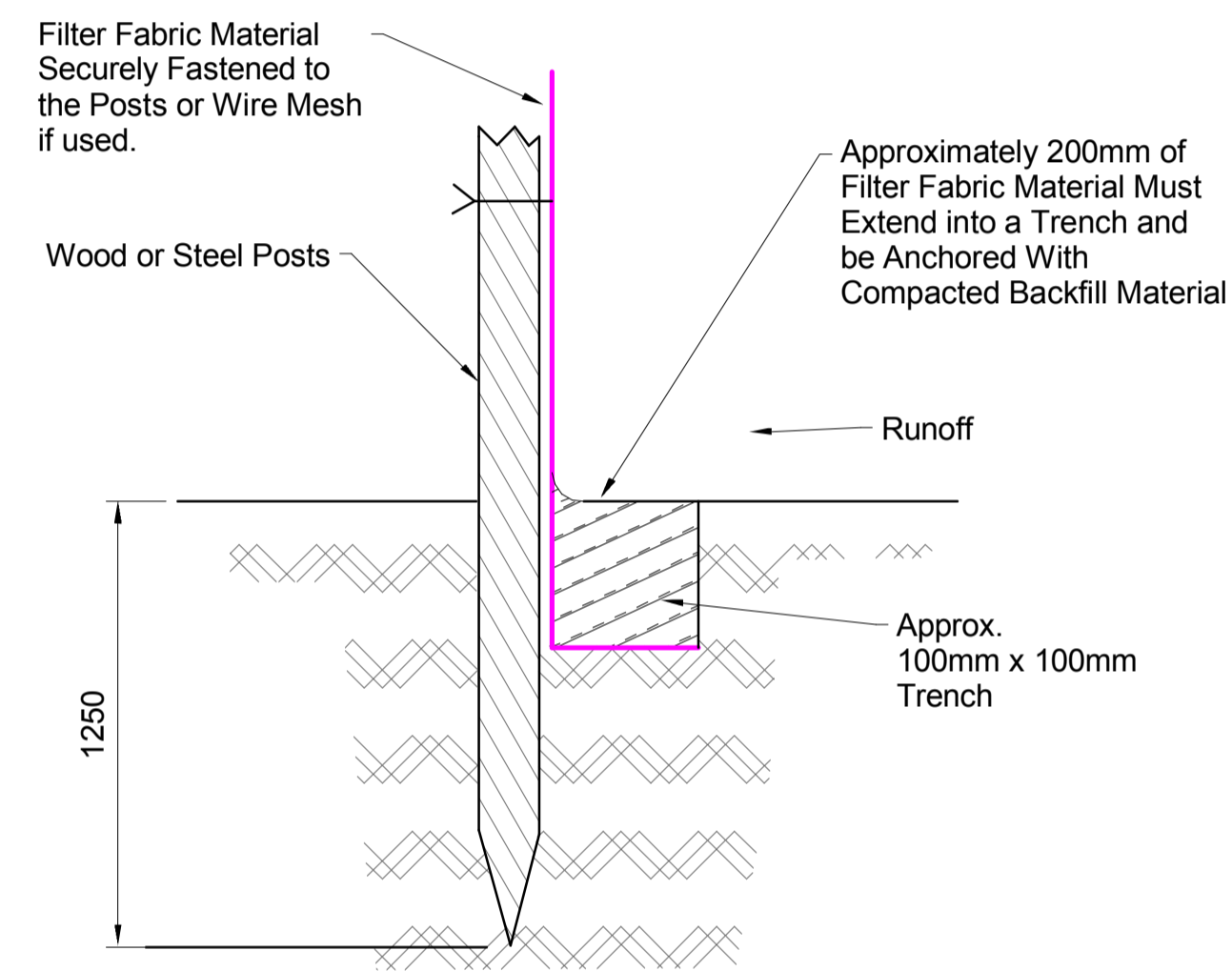
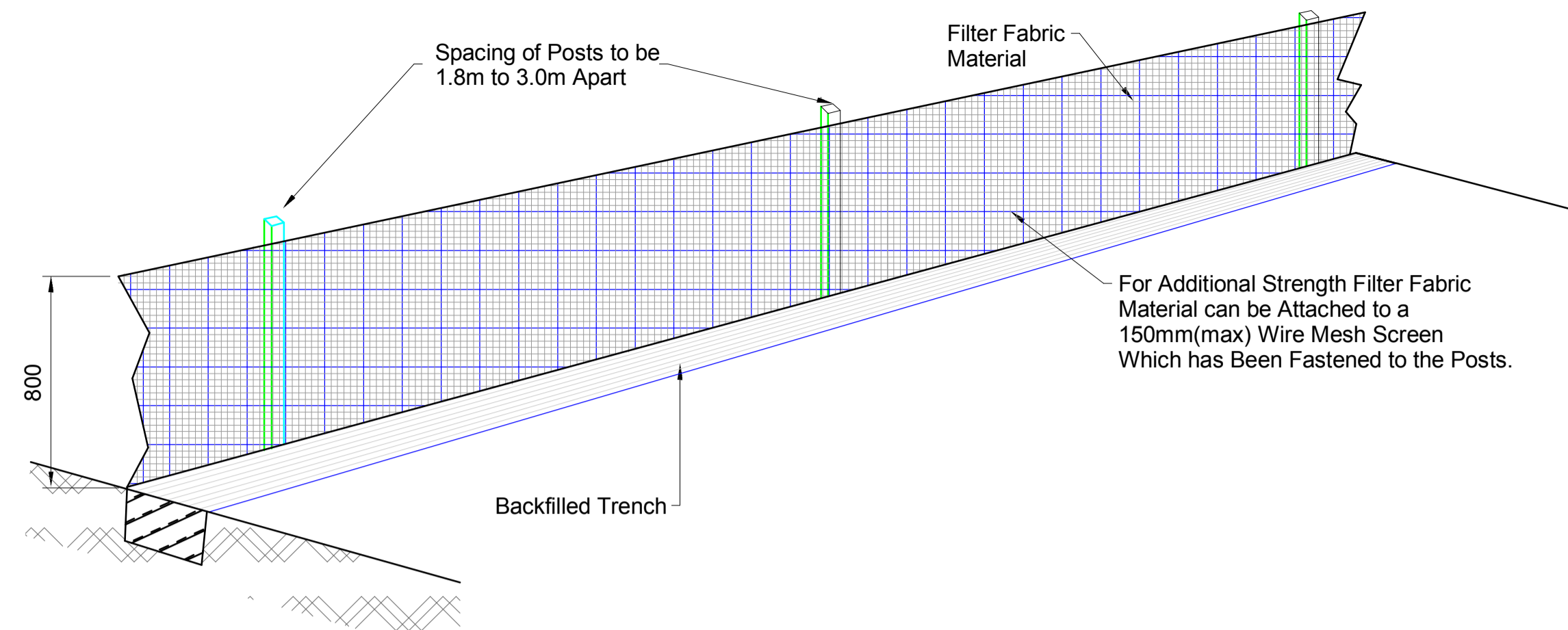
LAMP STANDARD, GAS EXTRACTION AND SWALE INLET DETAILS

CLIENT

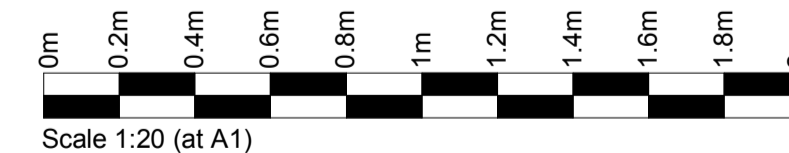
KNOCKHARLEY LANDFILL Ltd.

Date	01/17/18	Project number	LW14-821-01	Scale (@ A1)	As indicated
Drawn by	SK	Drawing Number	LW14-821-01-P-0500-004	Rev	A
Checked by	CJC				

Drawing printed: 09/07/2018 10:29:28



SILT FENCE DETAILS
(Scale 1 : 20)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

Core House,
Pouladuff Rd,
Cork, Ireland.

J5 Plaza,
North Park Business Park, North Road,
Dublin 11, Ireland

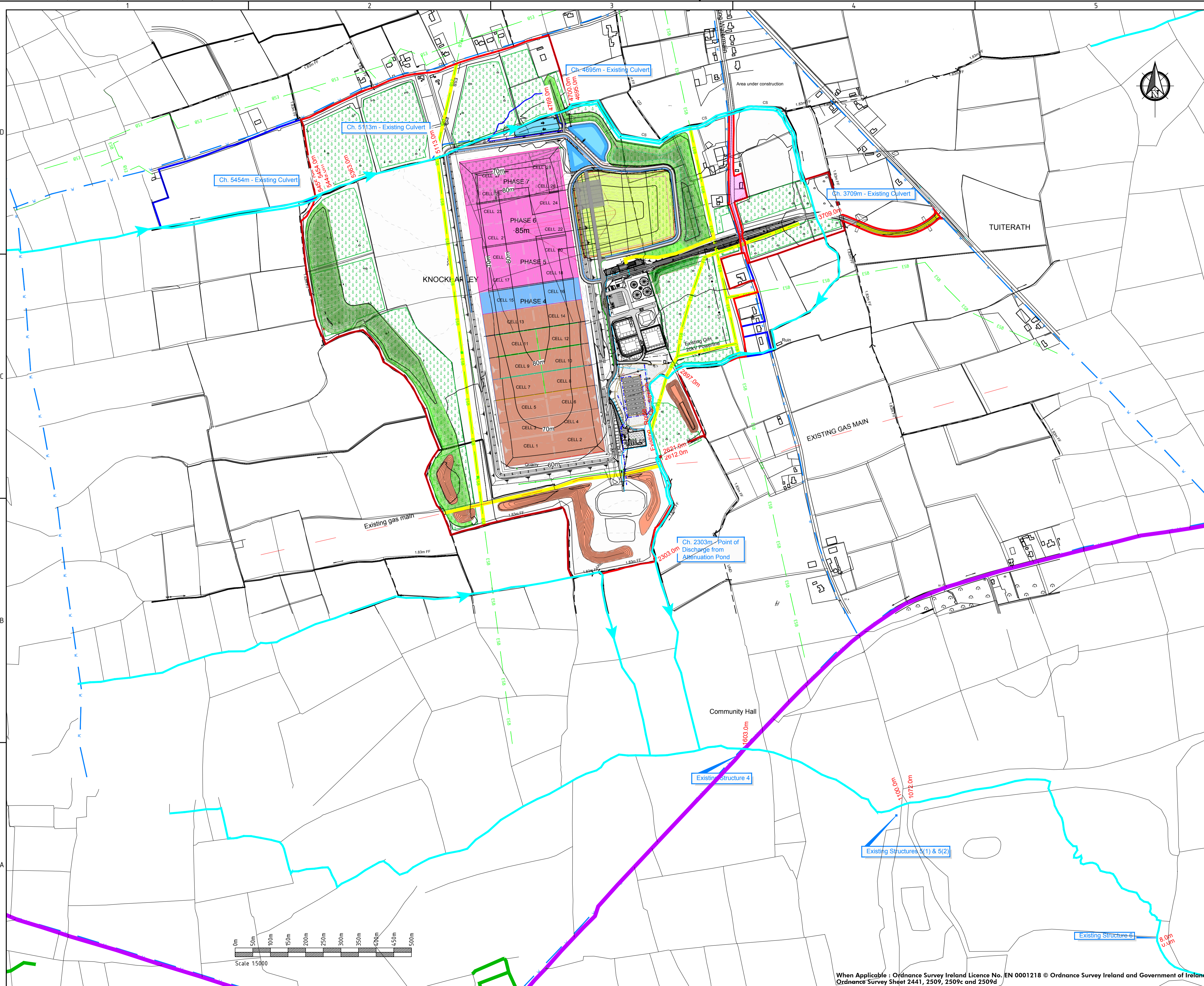
T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE 0500	STATUS	SUITABILITY DESCRIPTION PLANNING	PURPOSE OF ISSUE EIAR
--------------	--------	-------------------------------------	--------------------------

<p>PROJECT</p> <p style="text-align: center;">PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL</p>	<p>CLIENT</p> <p style="text-align: center;">KNOCKHARLEY LANDFILL Ltd.</p>									
<p>SHEET</p> <p style="text-align: center;">DETAILS OF SILT FENCE</p>	<table border="1" style="width: 100%;"> <tr> <td>Date 03/09/18</td> <td>Project number LW14-821-01</td> <td>Scale (@ A1) 1 : 20</td> </tr> <tr> <td>Drawn by SK</td> <td>Drawing Number LW14-821-01-P-0500-005</td> <td>Rev A</td> </tr> <tr> <td>Checked by CJC</td> <td colspan="2"> </td> </tr> </table>	Date 03/09/18	Project number LW14-821-01	Scale (@ A1) 1 : 20	Drawn by SK	Drawing Number LW14-821-01-P-0500-005	Rev A	Checked by CJC		
Date 03/09/18	Project number LW14-821-01	Scale (@ A1) 1 : 20								
Drawn by SK	Drawing Number LW14-821-01-P-0500-005	Rev A								
Checked by CJC										

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 09/07/2018 10:29:29



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Feihly Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA
- IBA, Cell 33 (Outline Only Shown For Clarity)
- Proposed Screening Berms with Compensatory Replanting
- Proposed Stream Diversion
- Existing Berm

A	C/C	BG	Cork	10.07.18	Issue For Planning Application
---	-----	----	------	----------	--------------------------------

Rev.	Drawn	CHK'd	App'd	Rev Origin	Description
					EIA/R

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

SITE LAYOUT WITH EXISTING STREAM STRUCTURES

Scales Used	This Drawing was printed to
1:5000	A1-
Dwg. No.	Rev.
LW14-821-01-P-0500-006	A

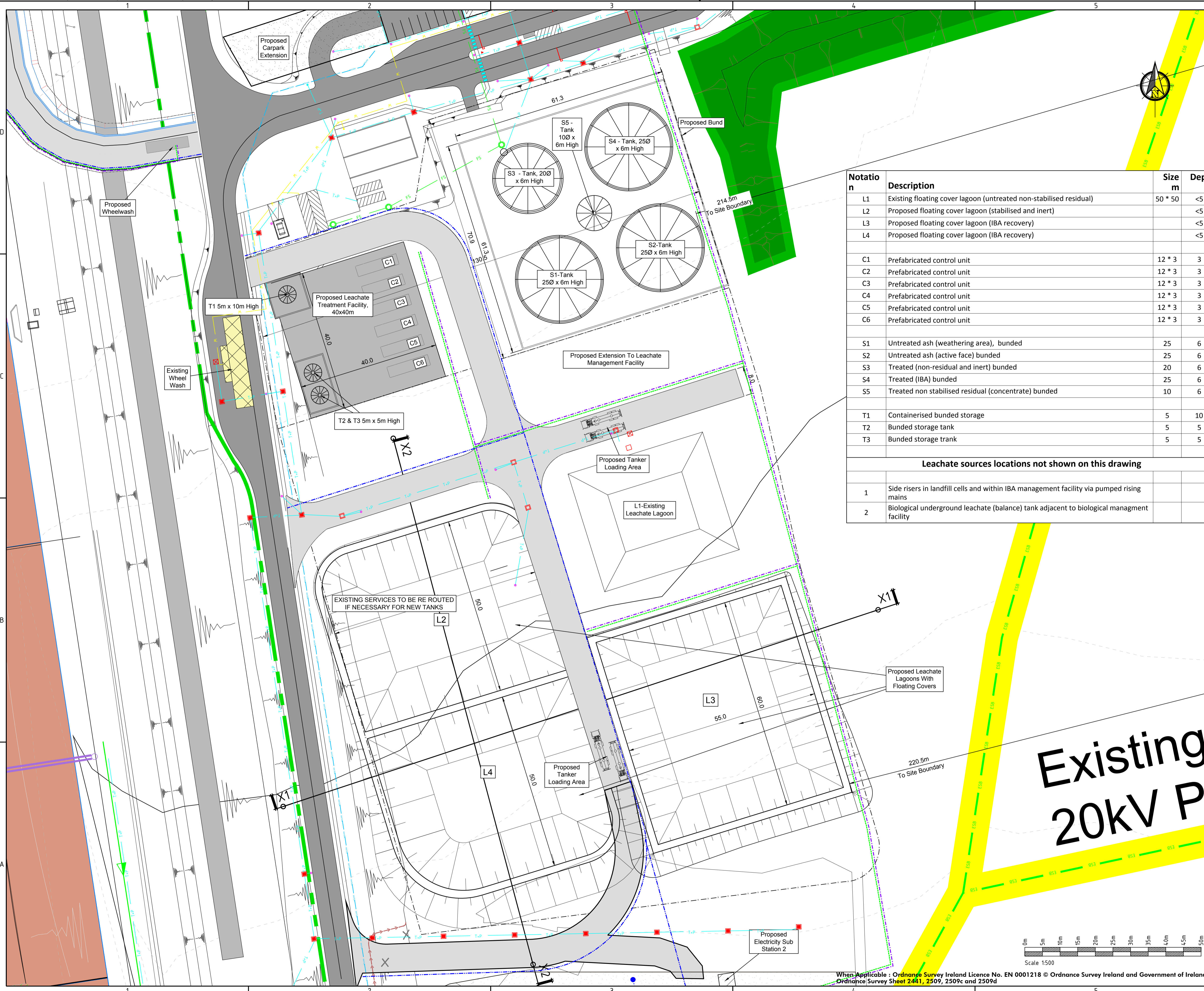
**FEIHLY
TIMONEY
& COMPANY**

**CONSULTANTS IN
ENGINEERING &
ENVIRONMENTAL
SCIENCES**

W: www.feihlytimoney.ie, E: info@ftco.ie

Core House, Pouladuff Rd, Cork, Ireland.
T: +353-21-4964133, F: +353-21-4964464

J5 Plaza, North Park Business Park,
North Road, Dublin 11, Ireland
T: +353-1-6583500, F: +353-1-6583501



NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE
 No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Feihly Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.
 Do not scale. Use figured dimensions only. If in doubt - Ask!

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary
- Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/18)
- Constructed Landfill Cells
- Existing Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA
- IBA, Cell 33 (Outline Only Shown For Clarity)
- Proposed Screening Berms with Compensatory Replanting
- Proposed Stream Diversion
- Existing Berm

Notation	Description	Size m	Depth m
L1	Existing floating cover lagoon (untreated non-stabilised residual)	50 * 50	<5
L2	Proposed floating cover lagoon (stabilised and inert)		<5
L3	Proposed floating cover lagoon (IBA recovery)		<5
L4	Proposed floating cover lagoon (IBA recovery)		<5
C1	Prefabricated control unit	12 * 3	3
C2	Prefabricated control unit	12 * 3	3
C3	Prefabricated control unit	12 * 3	3
C4	Prefabricated control unit	12 * 3	3
C5	Prefabricated control unit	12 * 3	3
C6	Prefabricated control unit	12 * 3	3
S1	Untreated ash (weathering area), banded	25	6
S2	Untreated ash (active face) banded	25	6
S3	Treated (non-residual and inert) banded	20	6
S4	Treated (IBA) banded	25	6
S5	Treated non stabilised residual (concentrate) banded	10	6
T1	Containerised banded storage	5	10
T2	Banded storage tank	5	5
T3	Banded storage tank	5	5

Leachate sources locations not shown on this drawing

1	Side risers in landfill cells and within IBA management facility via pumped rising mains
2	Biological underground leachate (balance) tank adjacent to biological management facility

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer

Drawn	SK	Cork	10.07.18	Issue For Planning Application
Checked	CG	Rev Origin		Description
App'd		Date		
Revision History A				
Name of Client				
KNOCKHARLEY LANDFILL LTD.				
Name of Job				
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL				
Title of Drawing				
PROPOSED LEACHATE MANAGEMENT FACILITY				
Scale Used	This Drawing was printed to A1-			
1:500				
Dwg. No.	LW14-821-01-P-0600-001			Rev. No.
				A

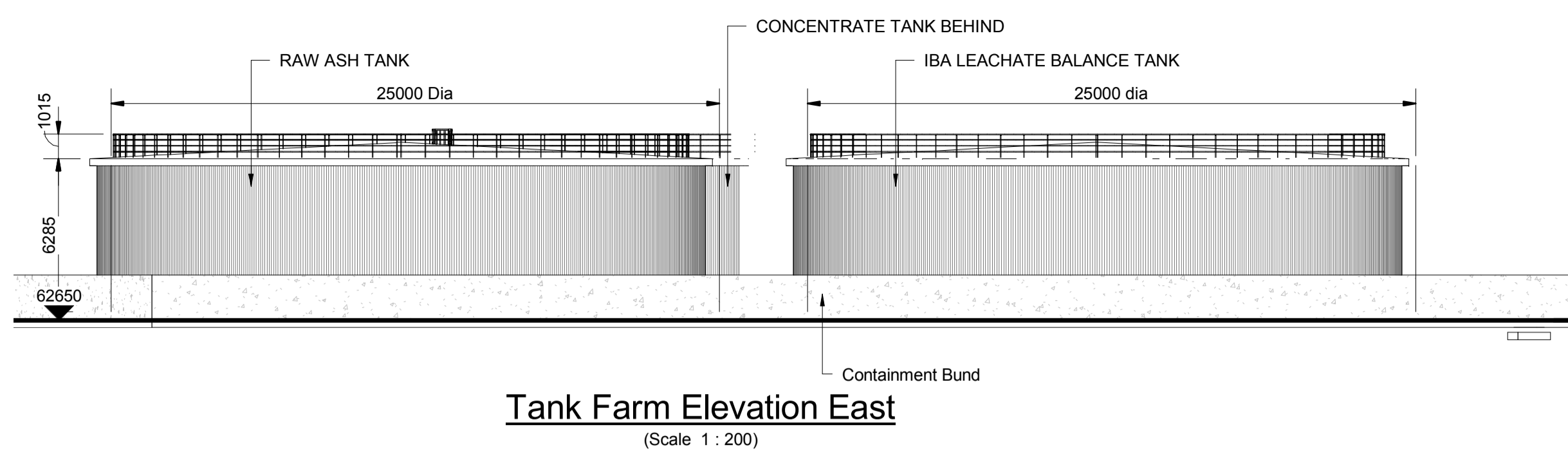
CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEIHLY TIMONEY & COMPANY

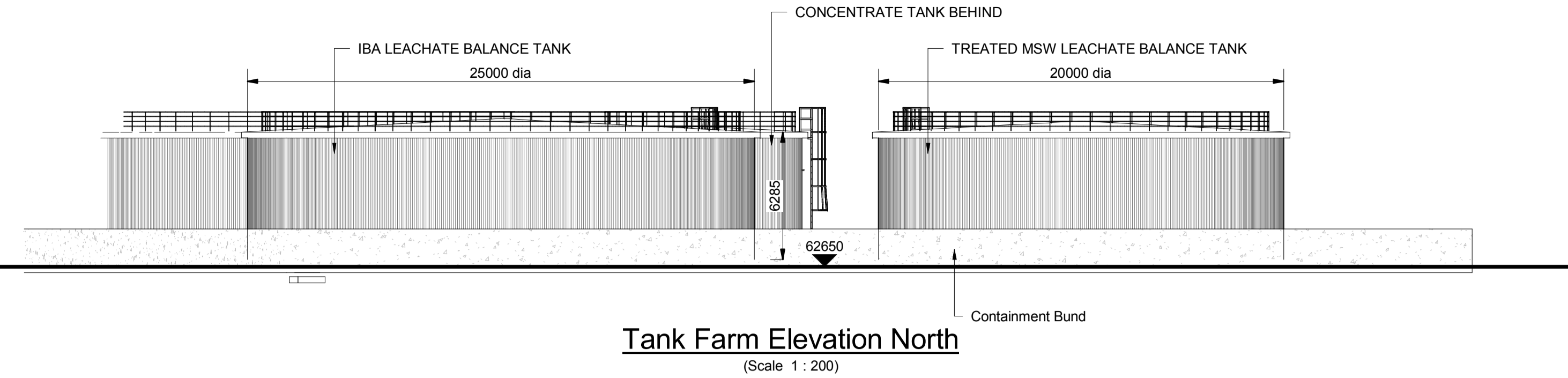
W: www.feihlytimoney.ie, E: info@ftco.ie

Core House, Pouladuff Rd, Cork, Ireland.
 T: +353-21-4964133, F: +353-21-4964464

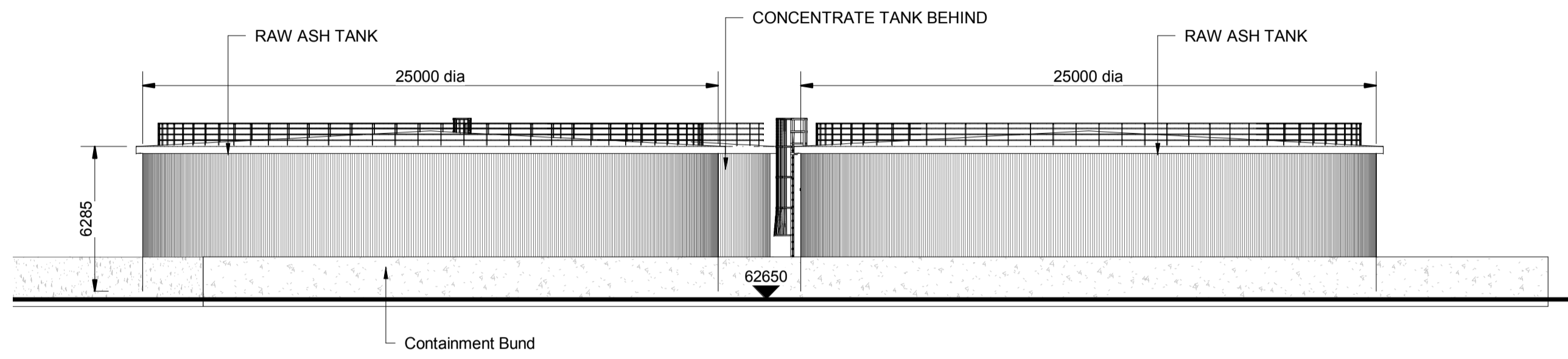
J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
 T: +353-1-6583500, F: +353-1-6583501



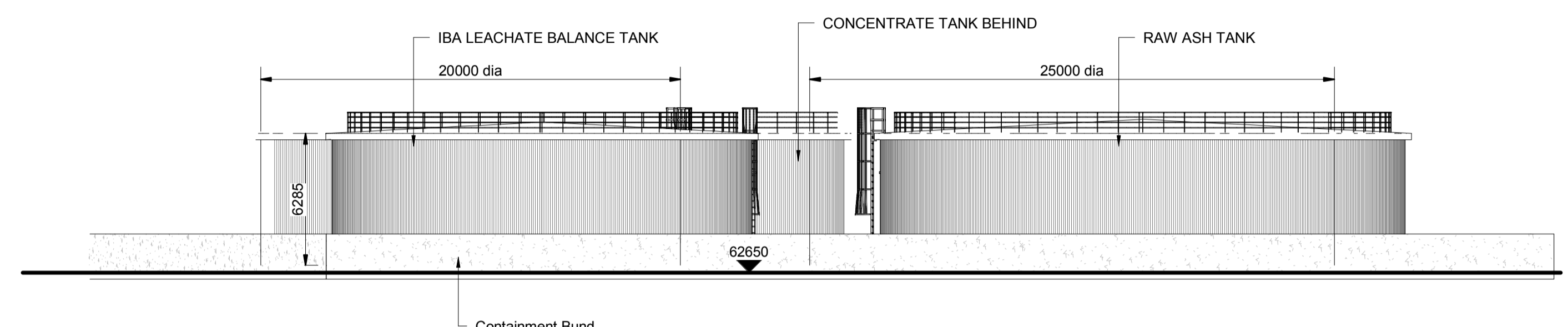
Tank Farm Elevation East
(Scale 1 : 200)



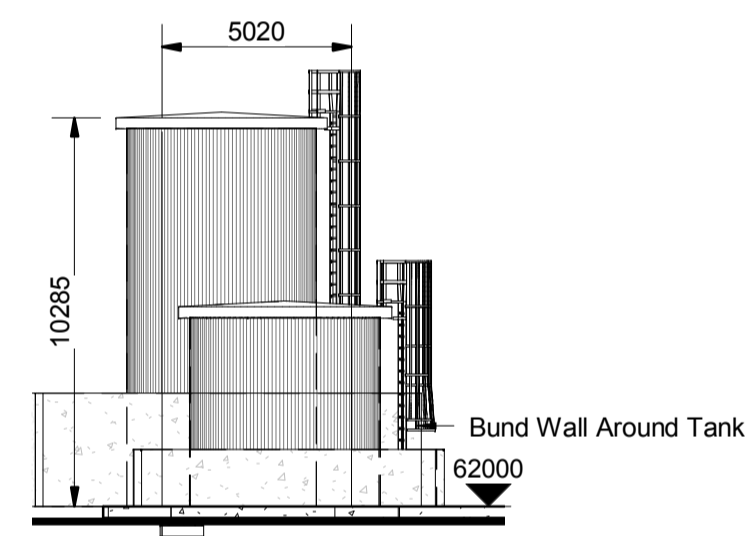
Tank Farm Elevation North
(Scale 1 : 200)



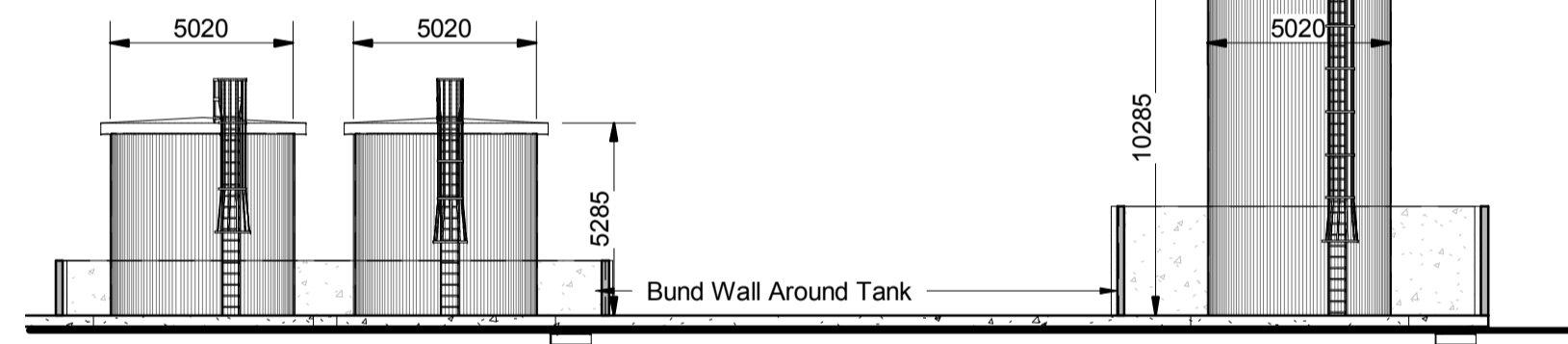
Tank Farm Elevation South
(Scale 1 : 200)



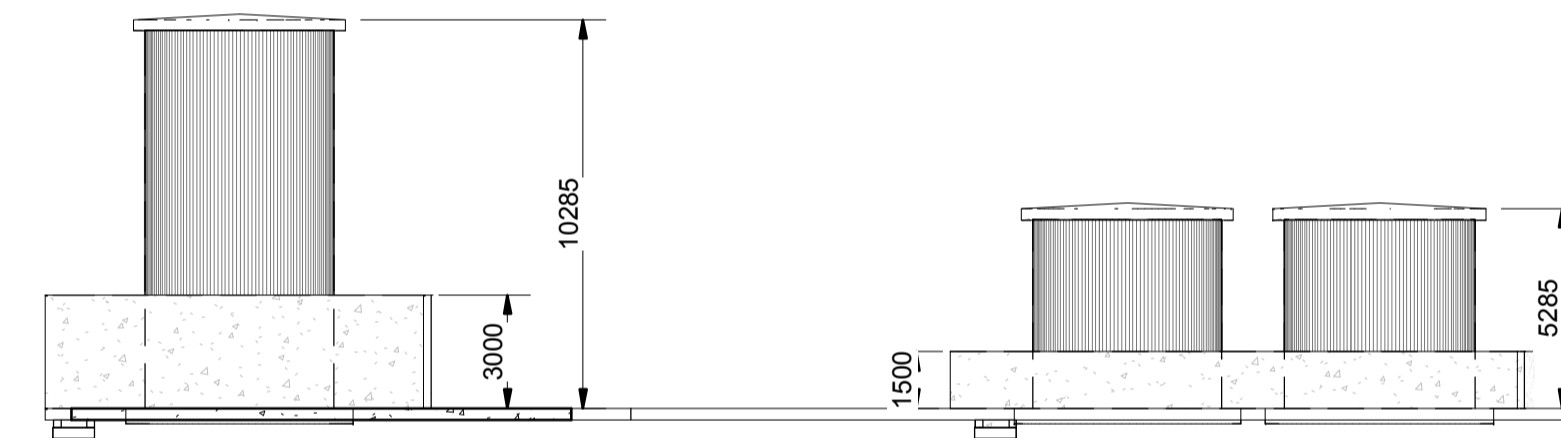
Tank Farm Elevation West
(Scale 1 : 200)



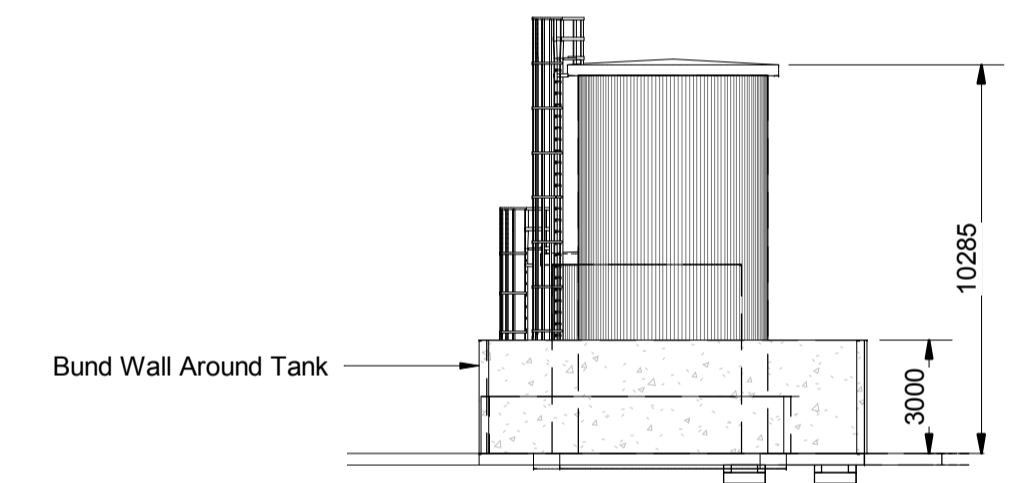
Leachate Tank Elevation - South
(Scale 1 : 200)



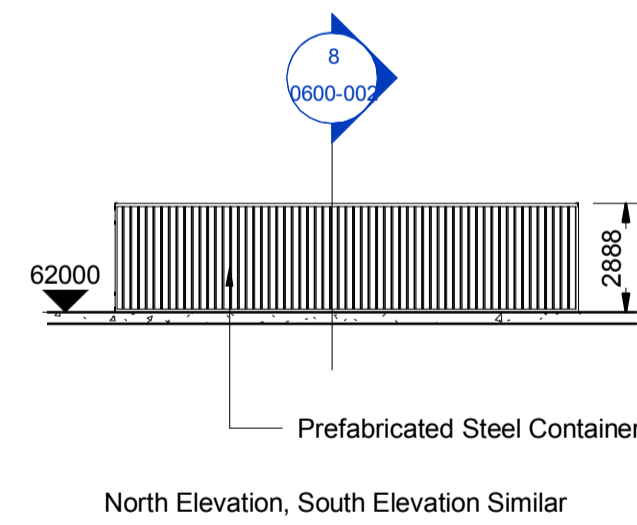
Leachate Tank Elevation- East
(Scale 1 : 200)



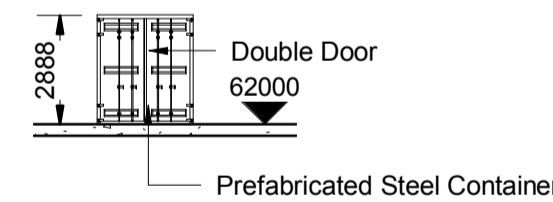
Leachate Tank Elevation- West
(Scale 1 : 200)



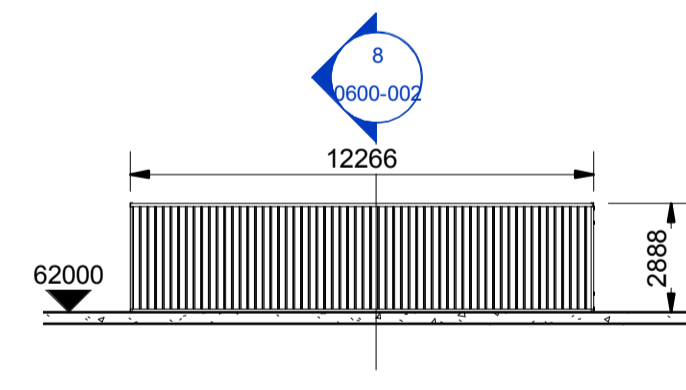
Leachate Tank Elevation - North
(Scale 1 : 200)



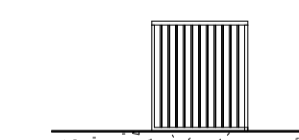
Prefabricated Control Unit Elevation -South
(Scale 1 : 200)



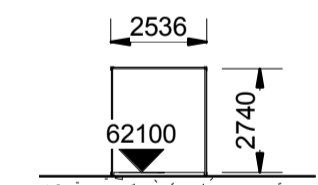
Prefabricated Control Unit Elevation - West
(Scale 1 : 200)



Prefabricated Control Unit Elevation -North
(Scale 1 : 200)

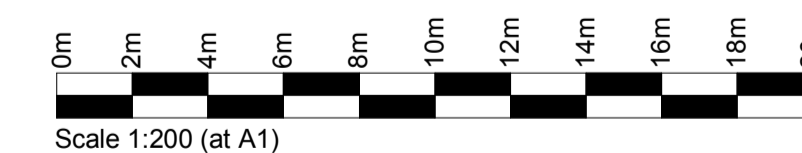


Prefabricated Control Unit Elevation - East
(Scale 1 : 200)



Leachate Yard Unit - Section
(Scale 1 : 200)

REFER TO P0600-003 FOR PLANS



When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
FEHILY TIMONEY & COMPANY
 Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.
 T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

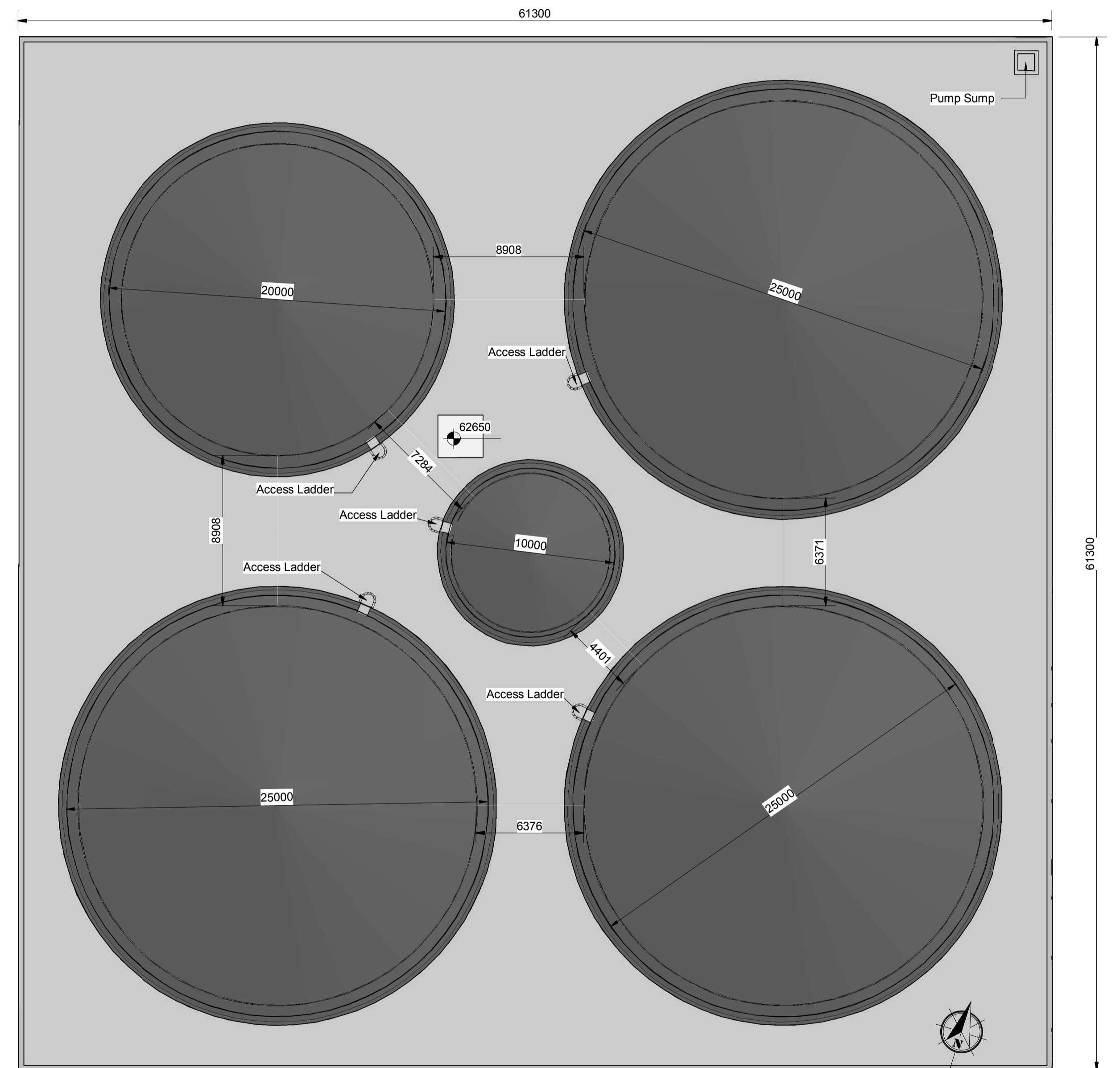
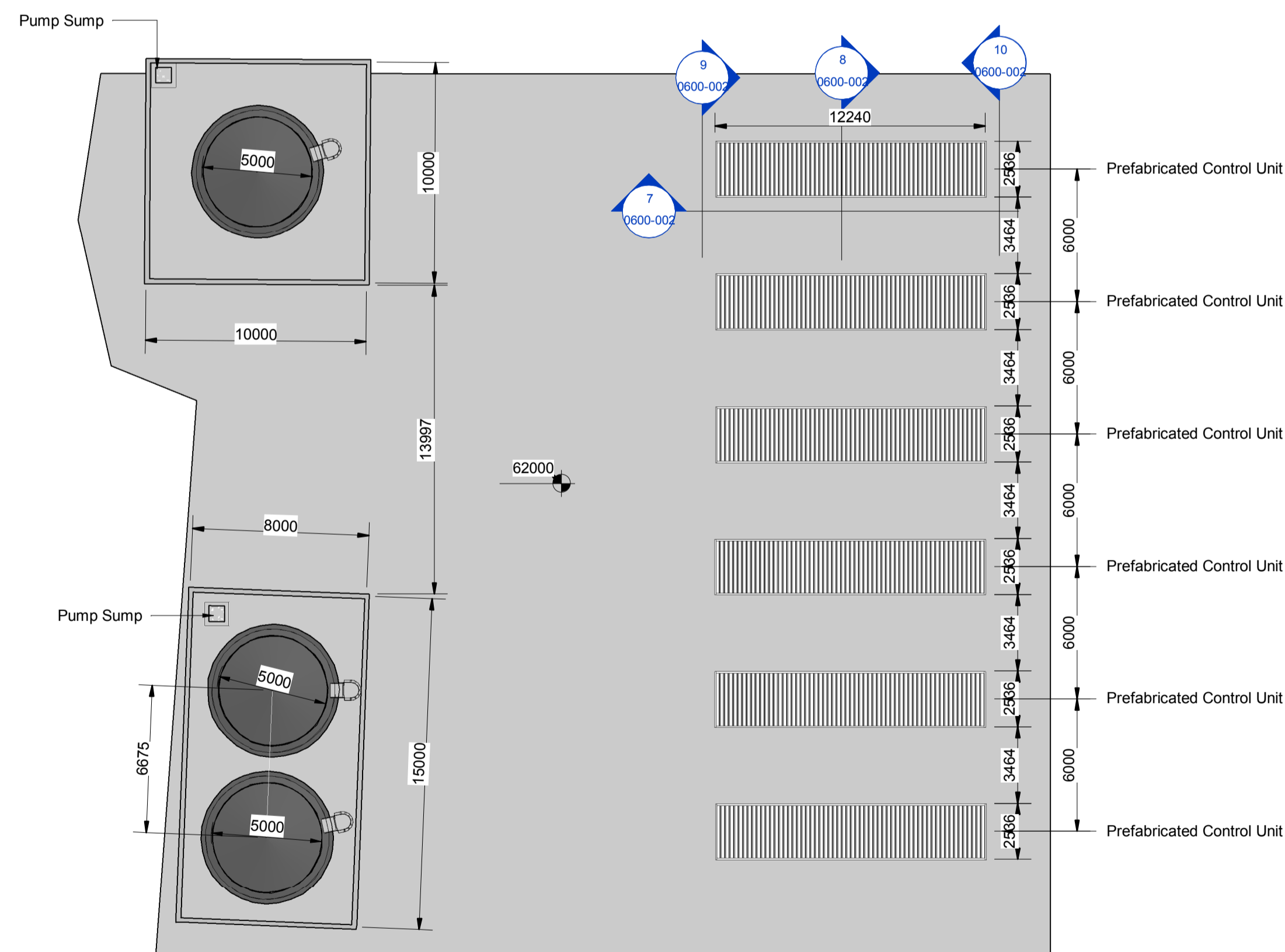
CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0600		PLANNING	EIAR

PROJECT	CLIENT
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL	KNOCKHARLEY LANDFILL Ltd.
SHEET	Date 01/18/18 Project number LW14-821-01 Scale (@ A1) 1 : 200
TANK FARM And LEACHATE TREATMENT EQUIPMENT ELEVATIONS	Drawn by SK Drawing Number LW14-821-01-P-0600-002 Checked by CJC
	Rev A

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 06/07/2018 10:29:34

Notes:
 1. Refer to 1:1000 series drawings (LW14-821-01-P-0000-004 To 011) layout of existing and proposed services.



LEACHATE YARD
 (Scale 1 : 200)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

Core House,
Pouladuff Rd,
Cork, Ireland.

J5 Plaza,
North Park Business Park, North Road,
Dublin 11, Ireland

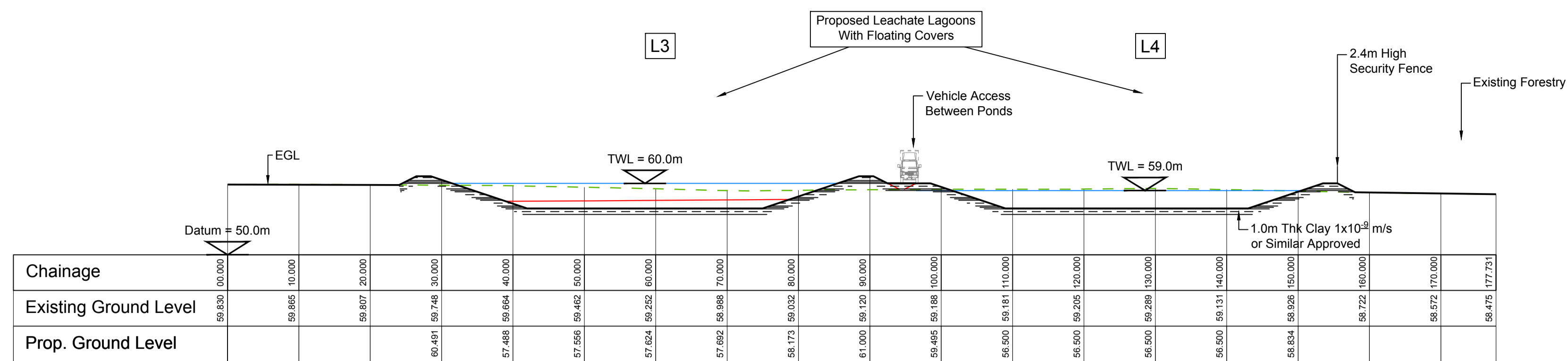
T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE 0600	STATUS	SUITABILITY DESCRIPTION PLANNING	PURPOSE OF ISSUE EIAR
--------------	--------	-------------------------------------	--------------------------

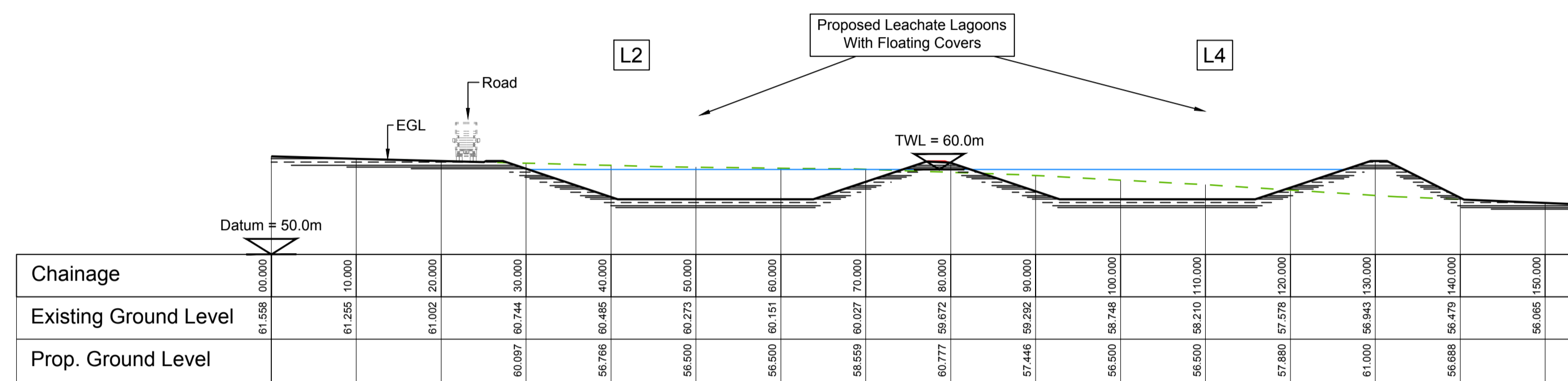
<p>PROJECT</p> <p style="text-align: center;">PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL</p>	<p>CLIENT</p> <p style="text-align: center;">KNOCKHARLEY LANDFILL Ltd.</p>																		
<p>SHEET</p> <p style="text-align: center;">TANK FARM And LEACHATE TREATMENT EQUIPMENT PLAN</p>	<table border="1" style="width: 100%;"> <tr> <td>Date</td> <td>02/12/18</td> <td>Project number</td> <td>LW14-821-01</td> <td>Scale (@ A1)</td> <td>As indicated</td> </tr> <tr> <td>Drawn by</td> <td>SK</td> <td>Drawing Number</td> <td>LW14-821-01-P-0600-003</td> <td>Rev</td> <td>A</td> </tr> <tr> <td>Checked by</td> <td>CJC</td> <td colspan="2"> </td> <td> </td> <td> </td> </tr> </table>	Date	02/12/18	Project number	LW14-821-01	Scale (@ A1)	As indicated	Drawn by	SK	Drawing Number	LW14-821-01-P-0600-003	Rev	A	Checked by	CJC				
Date	02/12/18	Project number	LW14-821-01	Scale (@ A1)	As indicated														
Drawn by	SK	Drawing Number	LW14-821-01-P-0600-003	Rev	A														
Checked by	CJC																		

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 06/07/2018 10:29:38



SECTION X1



SECTION X2

NOT FOR CONSTRUCTION UNLESS SPECIFICALLY STATED OTHERWISE

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued.

Do not scale. Use figured dimensions only. If in doubt - Ask!

SCALE - VERTICAL



Rev.	Drawn	SK	CHK'd	C/C	App'd	Rev Origin	Date	Description
A		SK	C/C		BG	Cork	10.07.18	Issue For Planning Application

Rev.	Drawn	SK	CHK'd	C/C	App'd	Rev Origin	Date	Description
Revision History A								

Name of Client
KNOCKHARLEY LANDFILL LTD.

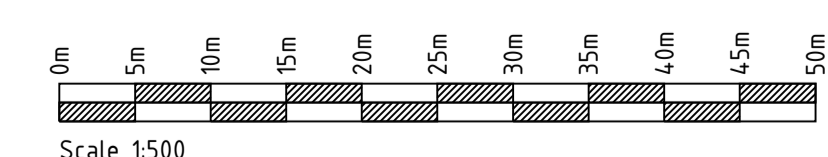
Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
CROSS SECTIONS THROUGH FLOATING COVER LAGOONS

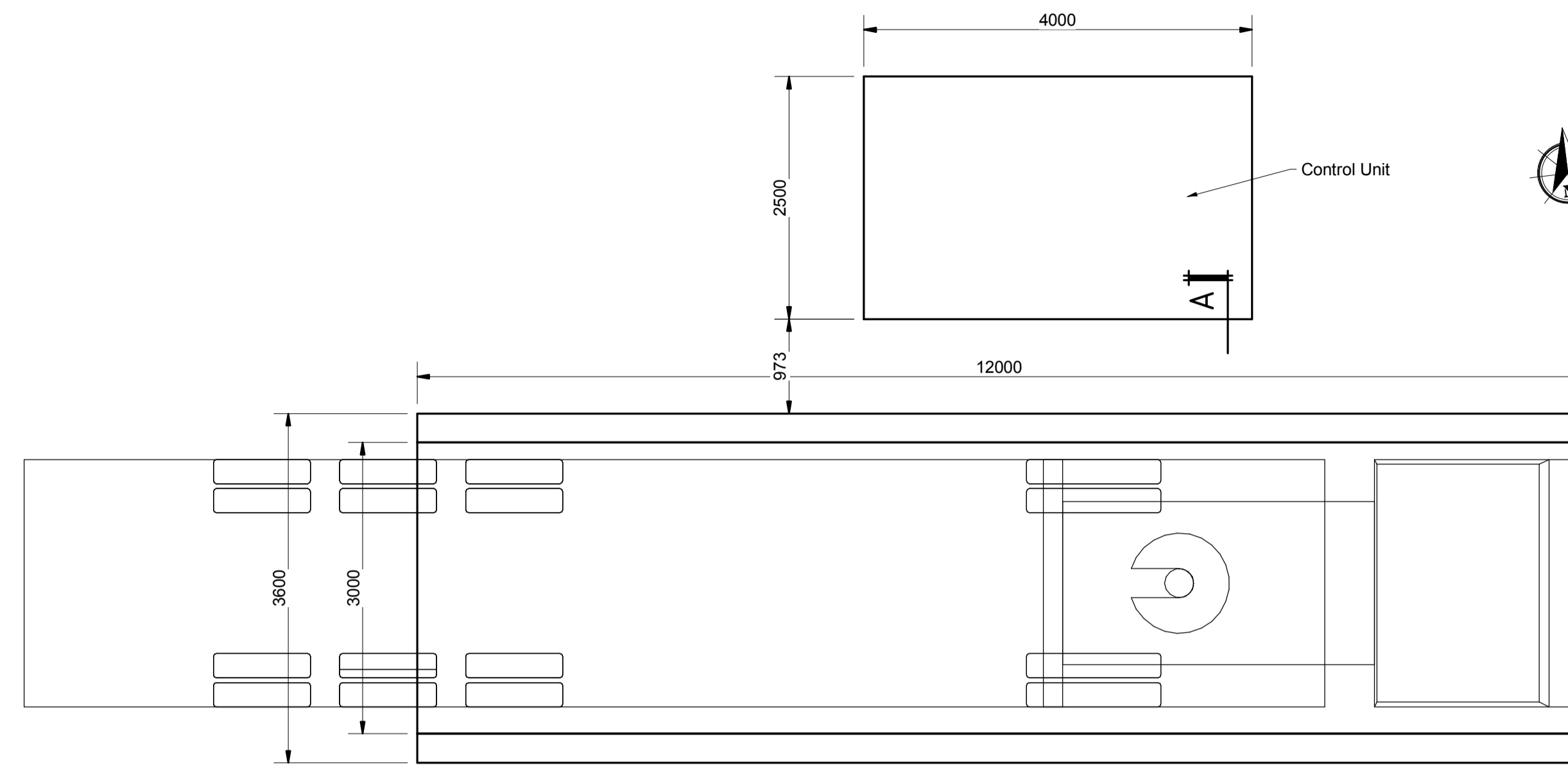
Scales Used: 1:500
This Drawing was printed to A1.

Dwg. No. LW14-821-01-P-0600-004
Rev. A

FEHILY TIMONEY & COMPANY
CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES
W: www.fehilytimoney.ie, E: info@ftco.ie
Core House, Pouladuff Rd, Cork, Ireland.
T: +353-21-4964133, F: +353-21-4964464
J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland
T: +353-1-6383500, F: +353-1-6383501

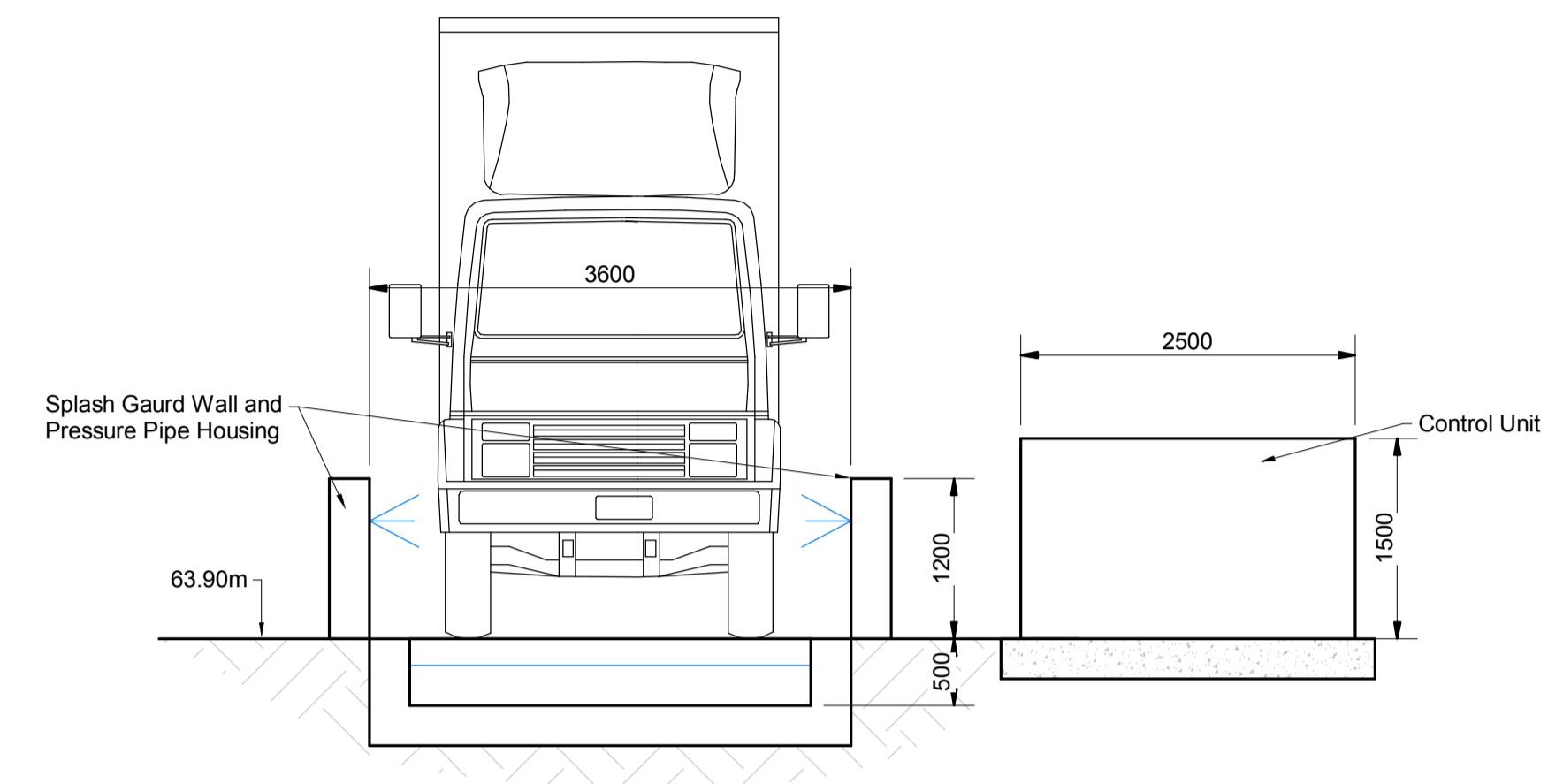


When Applicable: Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland
Ordnance Survey Sheet 2441, 2509, 2509c and 2509d



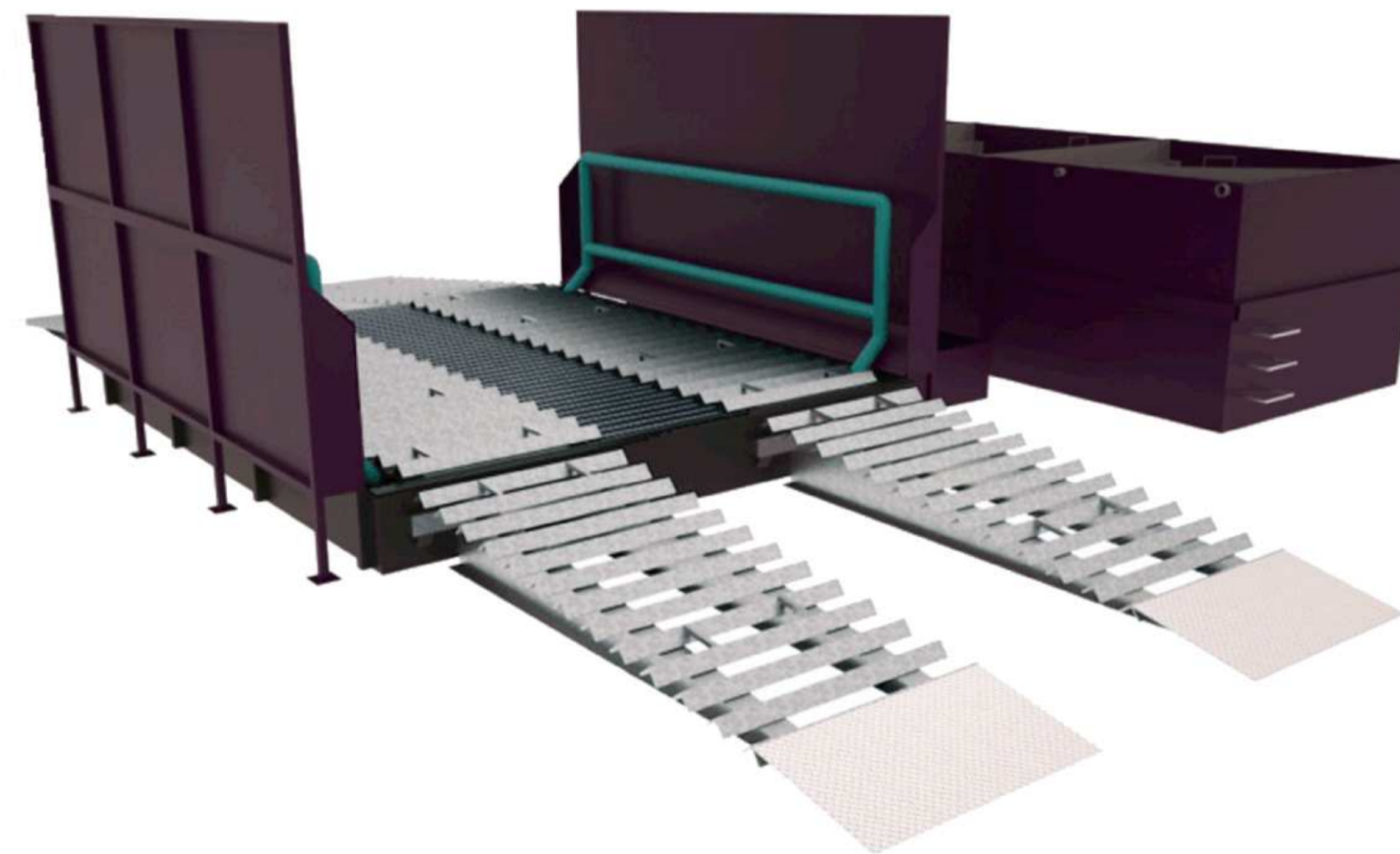
Proprietary Drive Through Wheel Wash

PLAN

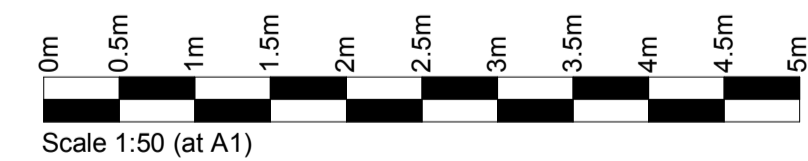


SECTION A-A

WHEELWASH DETAILS
(Scale 1 : 50)



ISOMETRIC REPRESENTATION OF WHEEL WASH UNIT



When Applicable : Ordnance Survey Ireland Licence No. EN 0001218 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

Core House,
Pouladuff Rd,
Cork, Ireland.

J5 Plaza,
North Park Business Park, North Road,
Dublin 11, Ireland

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE 0600	STATUS	SUITABILITY DESCRIPTION PLANNING	PURPOSE OF ISSUE EIAR
--------------	--------	-------------------------------------	--------------------------

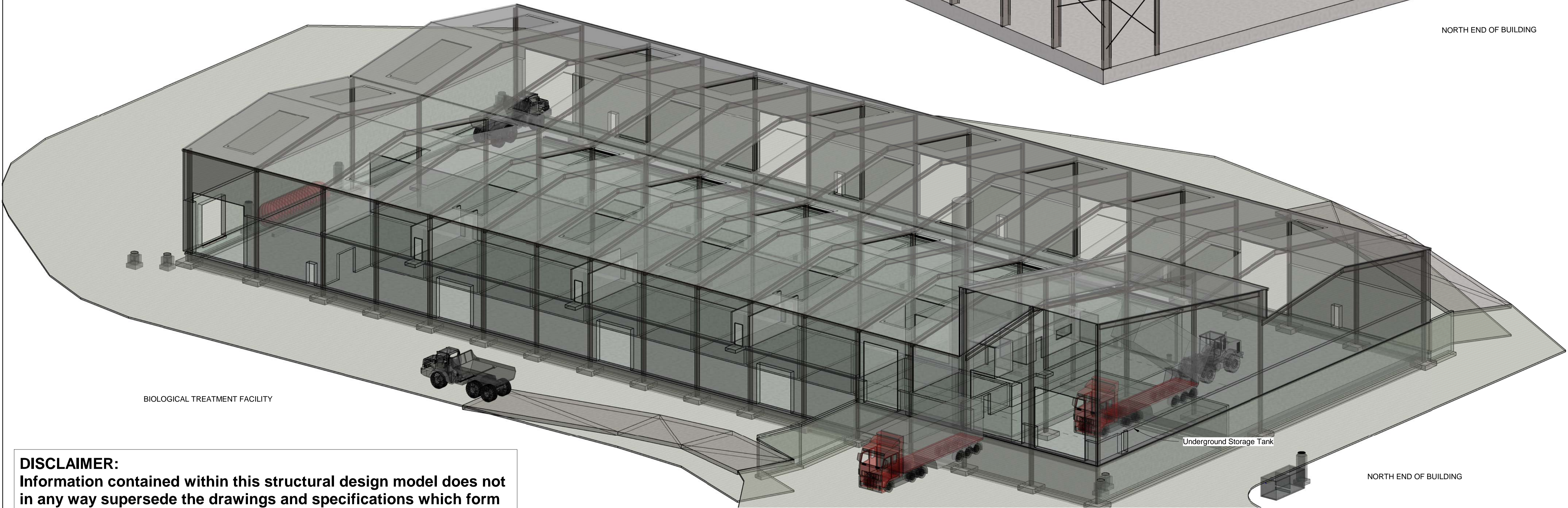
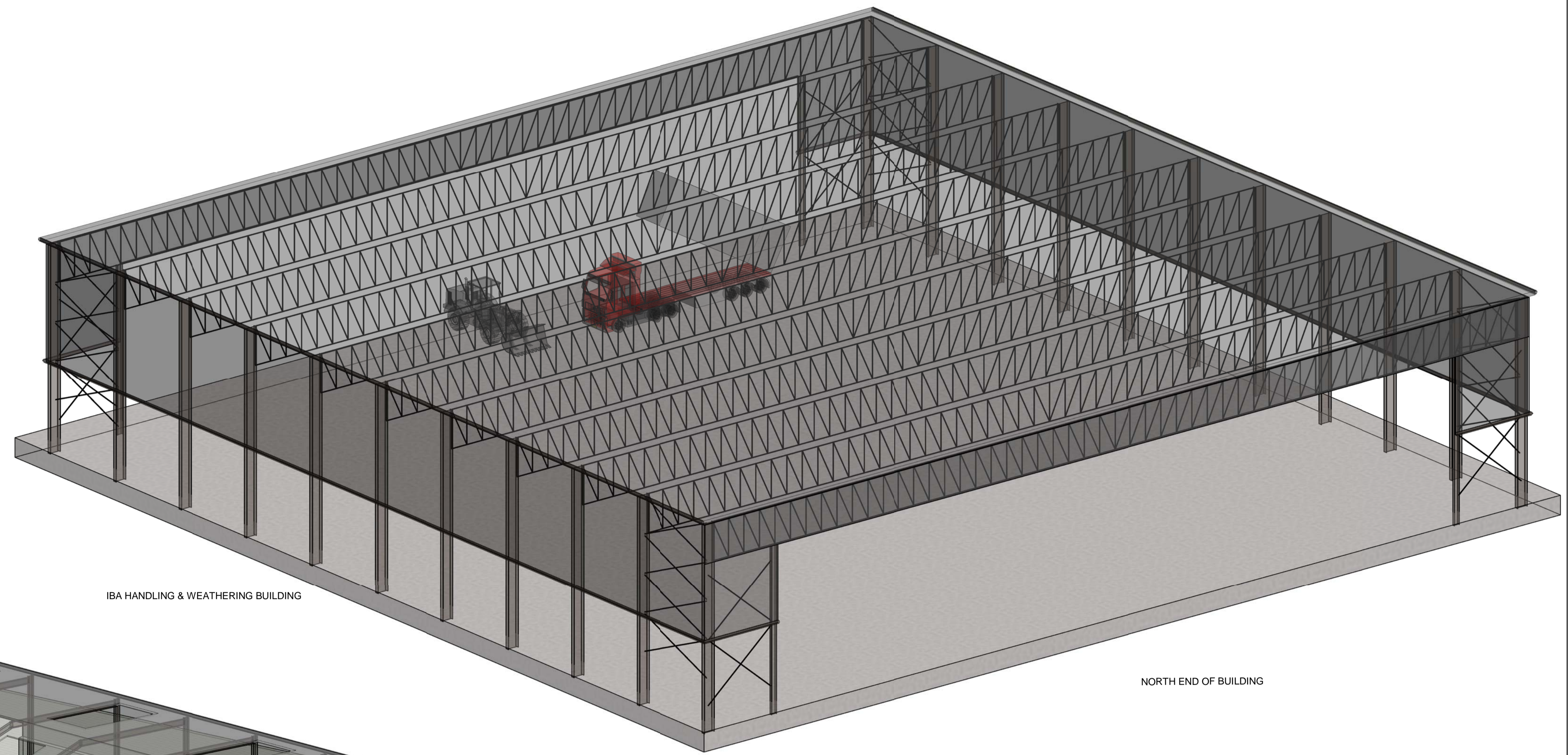
PROJECT	PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL
SHEET	PROPOSED WHEEL WASH DETAILS

CLIENT			KNOCKHARLEY LANDFILL Ltd.
Date	02/13/18	Project number	LW14-821-01
Drawn by	SK	Drawing Number	LW14-821-01-P-0600-005
Checked by	CJC	Scale (@ A1)	1 : 50
		Rev	A

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 06/07/2018 10:29:40

Sheet List				
Zone	Level	Sheet Number	Sheet Name	Revision
P	1700	000	OVERVIEW OF BIOLOGICAL TREATMENT FACILITY AND IBA FACILITY BUILDING	A
P	1700	001	SITE LAYOUT PLAN OF PROPOSED BIOLOGICAL TREATMENT FACILITY	A
P	1700	002	PROPOSED BIOLOGICAL TREATMENT FACILITY GROUND FLOOR PLAN	A
P	1700	003	PROPOSED BIOLOGICAL TREATMENT FACILITY FIRST FLOOR PLAN	A
P	1700	004	PROPOSED BIOLOGICAL TREATMENT FACILITY ROOF PLAN	A
P	1700	005	PROPOSED BIOLOGICAL TREATMENT FACILITY CROSS SECTIONS	A
P	1700	006	PROPOSED BIOLOGICAL TREATMENT FACILITY ELEVATIONS	A
P	1700	007	DETAILS OF FULL RETENTION OIL INTERCEPTOR	A
P	1700	008	PROPOSED BIOLOGICAL TREATMENT FACILITY LEACHATE & SEPTIC TANK DETAILS	A
P	1700	010	ESB MV SUBSTATION DETAILS	A
P	1700	021	PROPOSED IBA FACILITY BUILDING FLOOR PLAN	A
P	1700	022	PROPOSED IBA FACILITY BUILDING ROOF PLAN	A
P	1700	023	PROPOSED IBA FACILITY BUILDING SECTION AND ELEVATIONS	A



DISCLAIMER:
Information contained within this structural design model does not in any way supersede the drawings and specifications which form the Tender Documents. No liability is implied for how the data contained in the model is subsequently used.

When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

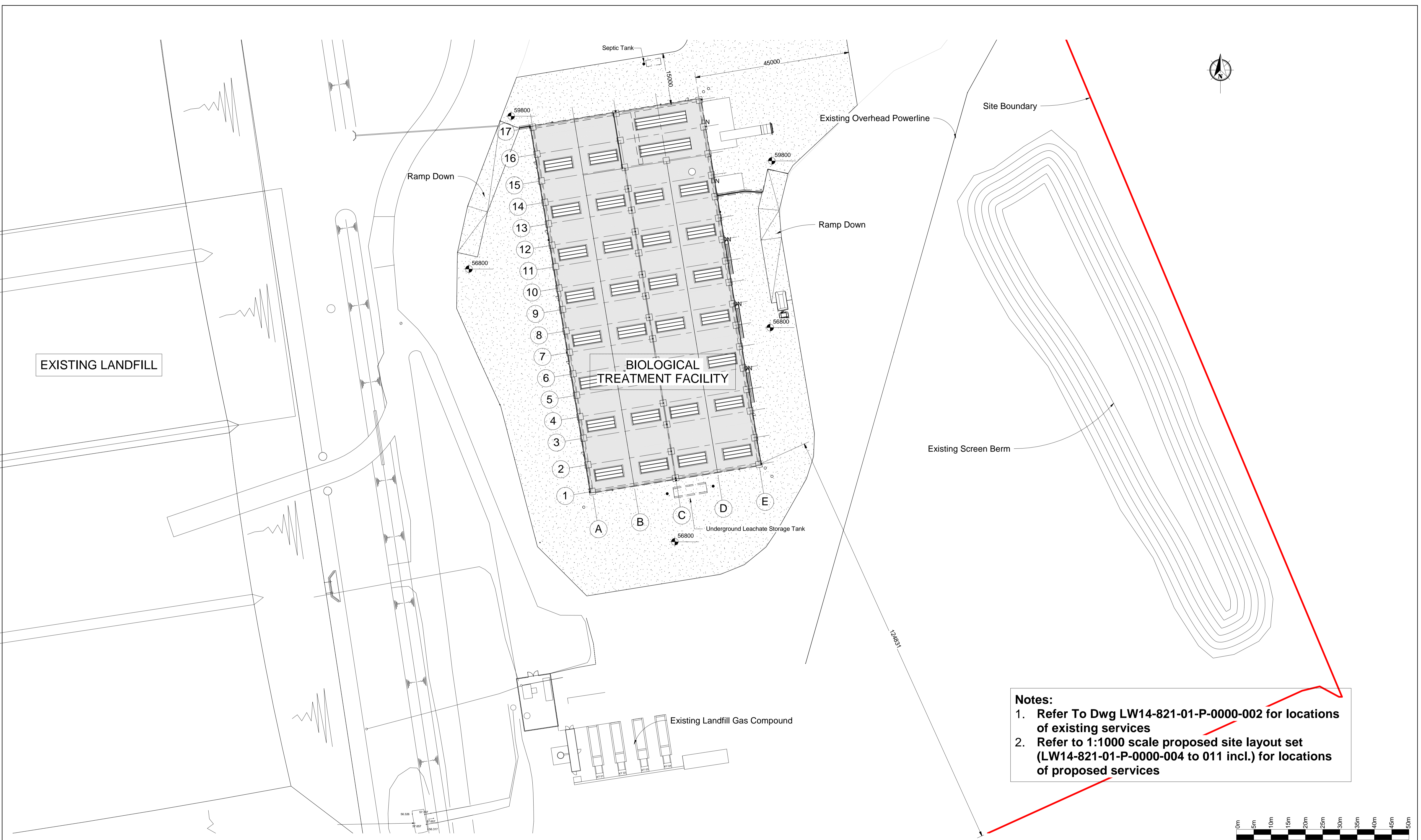
CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
-	-	-	EIAR

PROJECT: PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

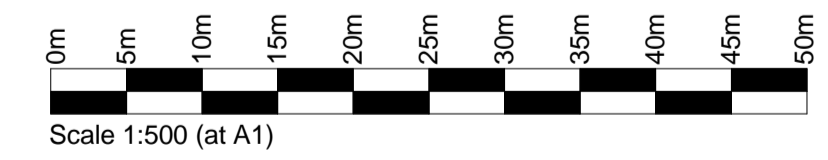
SHEET: OVERVIEW OF BIOLOGICAL TREATMENT FACILITY AND IBA FACILITY BUILDING

CLIENT: KNOCKHARLEY LANDFILL Ltd.

Date	Project number	Scale (@ A1)
10.07.18	LW14-821-01	N/A
Drawn by	Drawing Number	Rev
SK	LW14-821-01-P-1700-000	A
Checked by	CC	



Notes:
 1. Refer To Dwg LW14-821-01-P-0000-002 for locations of existing services
 2. Refer to 1:1000 scale proposed site layout set (LW14-821-01-P-0000-004 to 011 incl.) for locations of proposed services



When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d **SITE PLAN BIOLOGICAL TREATMENT FACILITY**
 (Scale 1 : 500)

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House, Pouladuff Rd, Cork, Ireland. JS Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT	PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL
SHEET	SITE LAYOUT PLAN OF PROPOSED BIOLOGICAL TREATMENT FACILITY

CLIENT KNOCKHARLEY LANDFILL Ltd.			
Date	04/04/17	Project number	LW14-821-01
Drawn by	SK	Drawing Number	LW14-821-01-P-1700-001
Checked by	CC	Scale (@ A1)	As indicated
			Rev A

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 09/07/2018 10:23:18



GROUND FLOOR PLAN
(Scale 1:200)

When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House,
Pouladuff Rd,
Cork, Ireland.

J5 Plaza,
North Park Business Park, North Road,
Dublin 11, Ireland

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT

PROPOSED DEVELOPMENT AT
KNOCKHARLEY LANDFILL

SHEET

PROPOSED BIOLOGICAL TREATMENT
FACILITY GROUND FLOOR PLAN

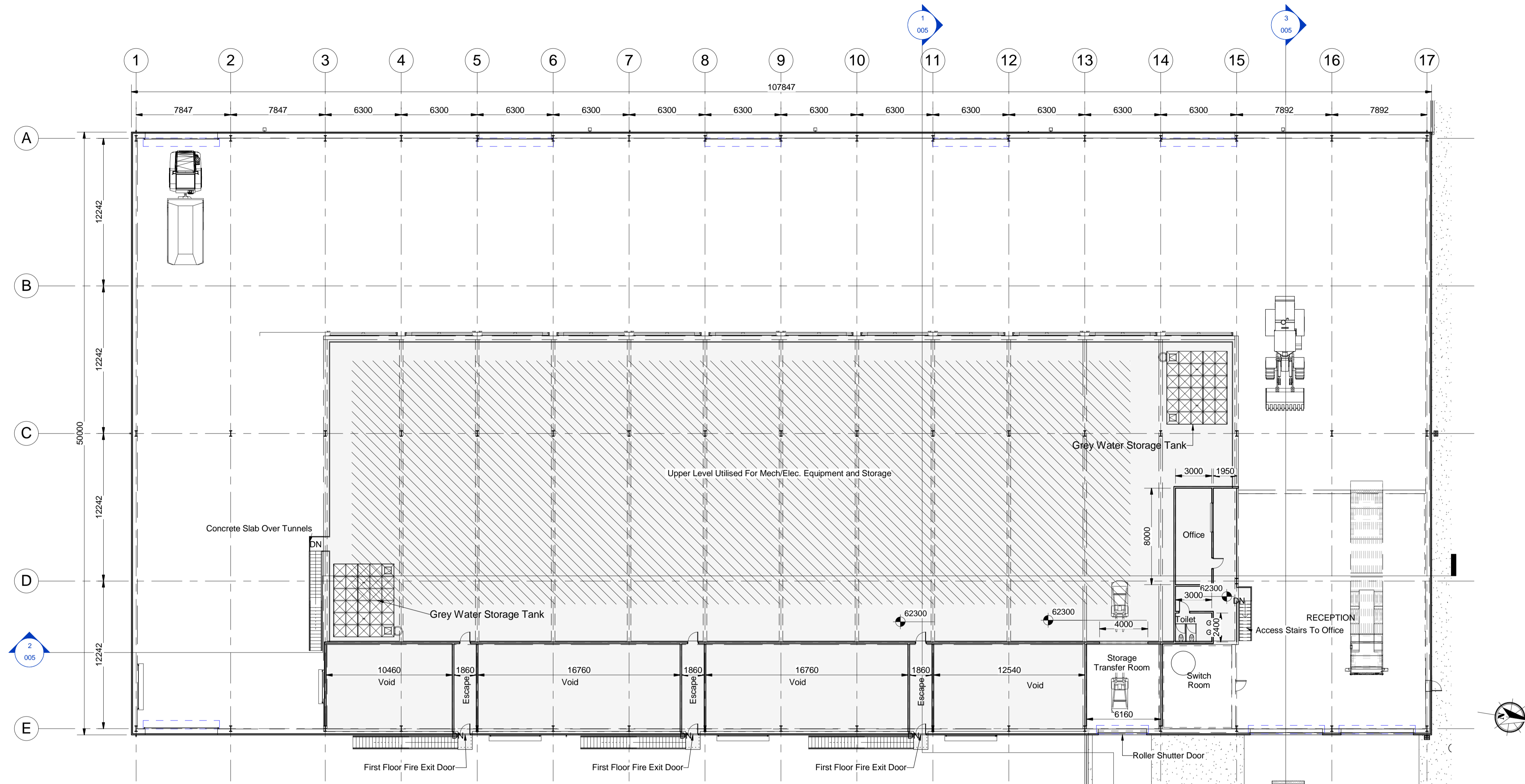
CLIENT

KNOCKHARLEY LANDFILL Ltd.

Date	Project number	Scale (@ A1)
09/27/17	LW14-821-01	1:200
Drawn by	Drawing Number	Rev
SK	LW14-821-01-P-1700-002	A
Checked by	CC	

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 09/07/2018 10:23:32



FIRST FLOOR LAYOUT PLAN
(Scale 1 : 200)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

Core House,
Pouladuff Rd,
Cork, Ireland.

J5 Plaza,
North Park Business Park, North Road,
Dublin 11, Ireland

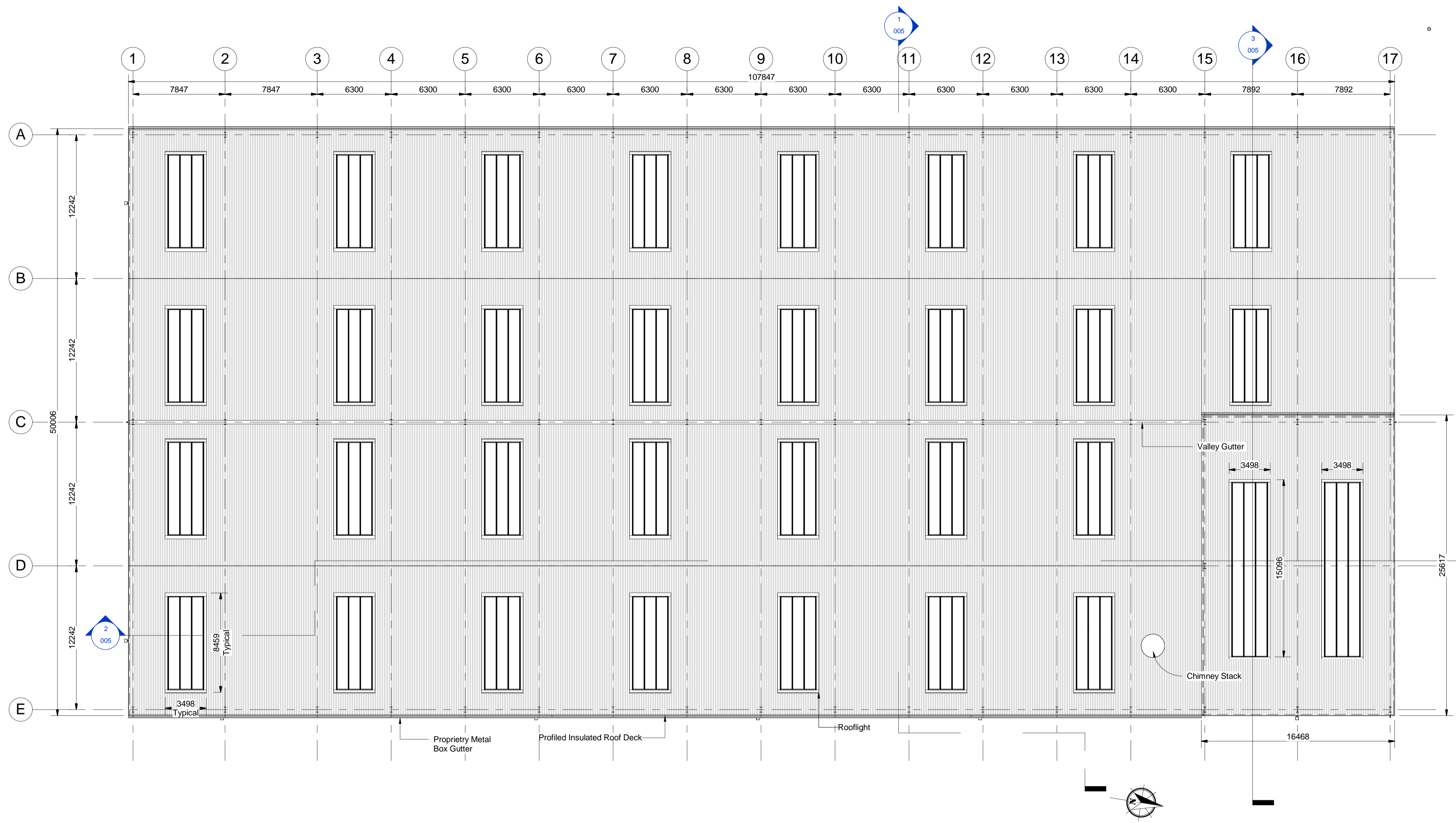
T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

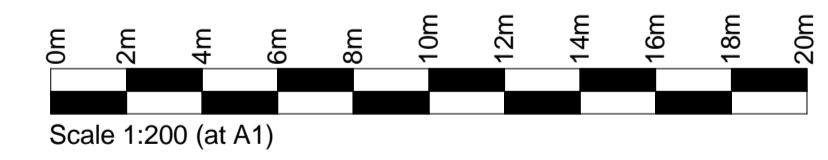
<p>PROJECT</p> <p align="center">PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL</p>	<p>CLIENT</p> <p align="center">KNOCKHARLEY LANDFILL Ltd.</p>																		
<p>SHEET</p> <p align="center">PROPOSED BIOLOGICAL TREATMENT FACILITY FIRST FLOOR PLAN</p>	<table border="1" style="width: 100%;"> <tr> <td>Date</td> <td>01/16/18</td> <td>Project number</td> <td>LW14-821-01</td> <td>Scale (@ A1)</td> <td>1 : 200</td> </tr> <tr> <td>Drawn by</td> <td>SK</td> <td>Drawing Number</td> <td colspan="3">LW14-821-01-P-1700-003</td> </tr> <tr> <td>Checked by</td> <td>CC</td> <td>Rev</td> <td colspan="3">A</td> </tr> </table>	Date	01/16/18	Project number	LW14-821-01	Scale (@ A1)	1 : 200	Drawn by	SK	Drawing Number	LW14-821-01-P-1700-003			Checked by	CC	Rev	A		
Date	01/16/18	Project number	LW14-821-01	Scale (@ A1)	1 : 200														
Drawn by	SK	Drawing Number	LW14-821-01-P-1700-003																
Checked by	CC	Rev	A																

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 09/07/2018 10:23:37



ROOF PLAN
(Scale 1 : 200)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

FEHILY TIMONEY & COMPANY
 Core House, Pouladuff Rd, Cork, Ireland.
 J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.
 T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

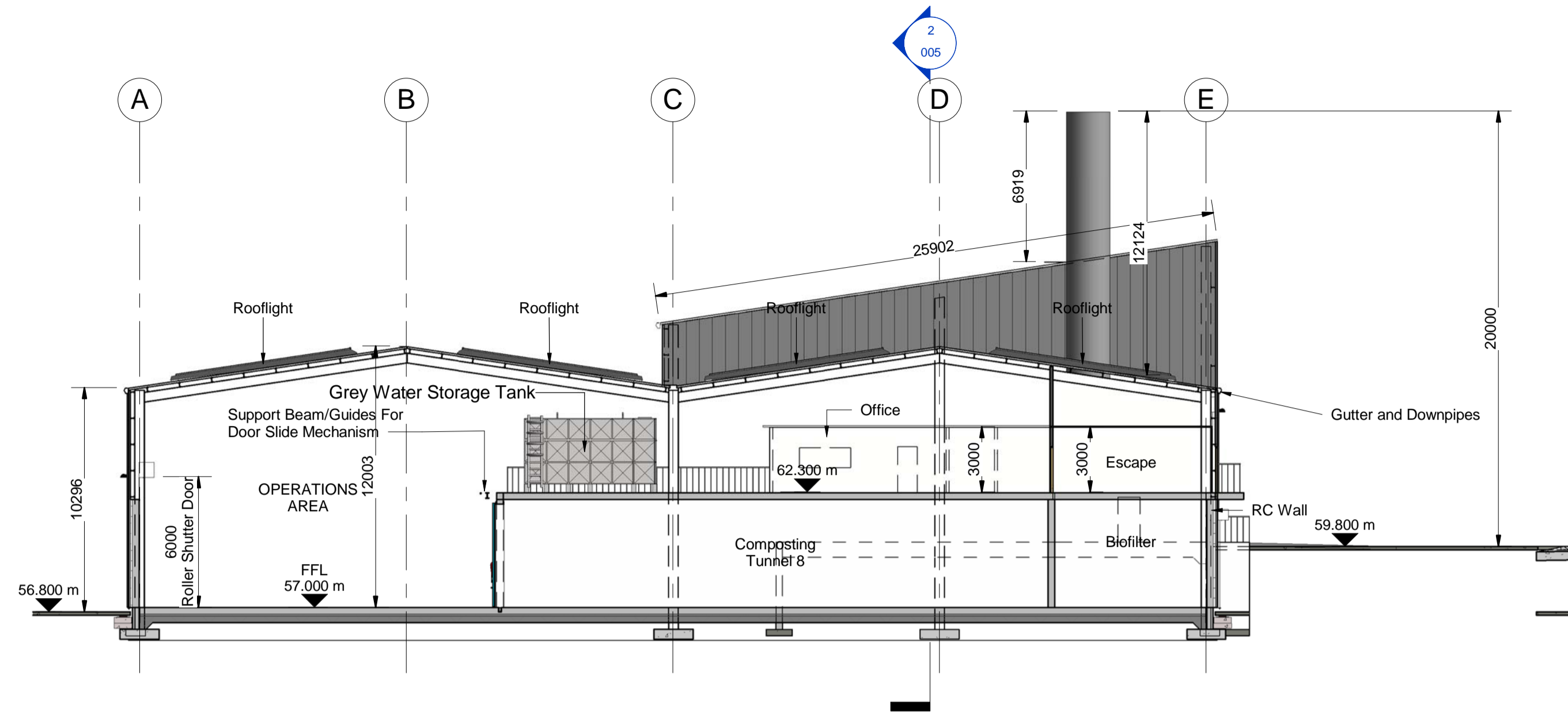
SHEET
PROPOSED BIOLOGICAL TREATMENT FACILITY ROOF PLAN

CLIENT
KNOCKHARLEY LANDFILL Ltd.

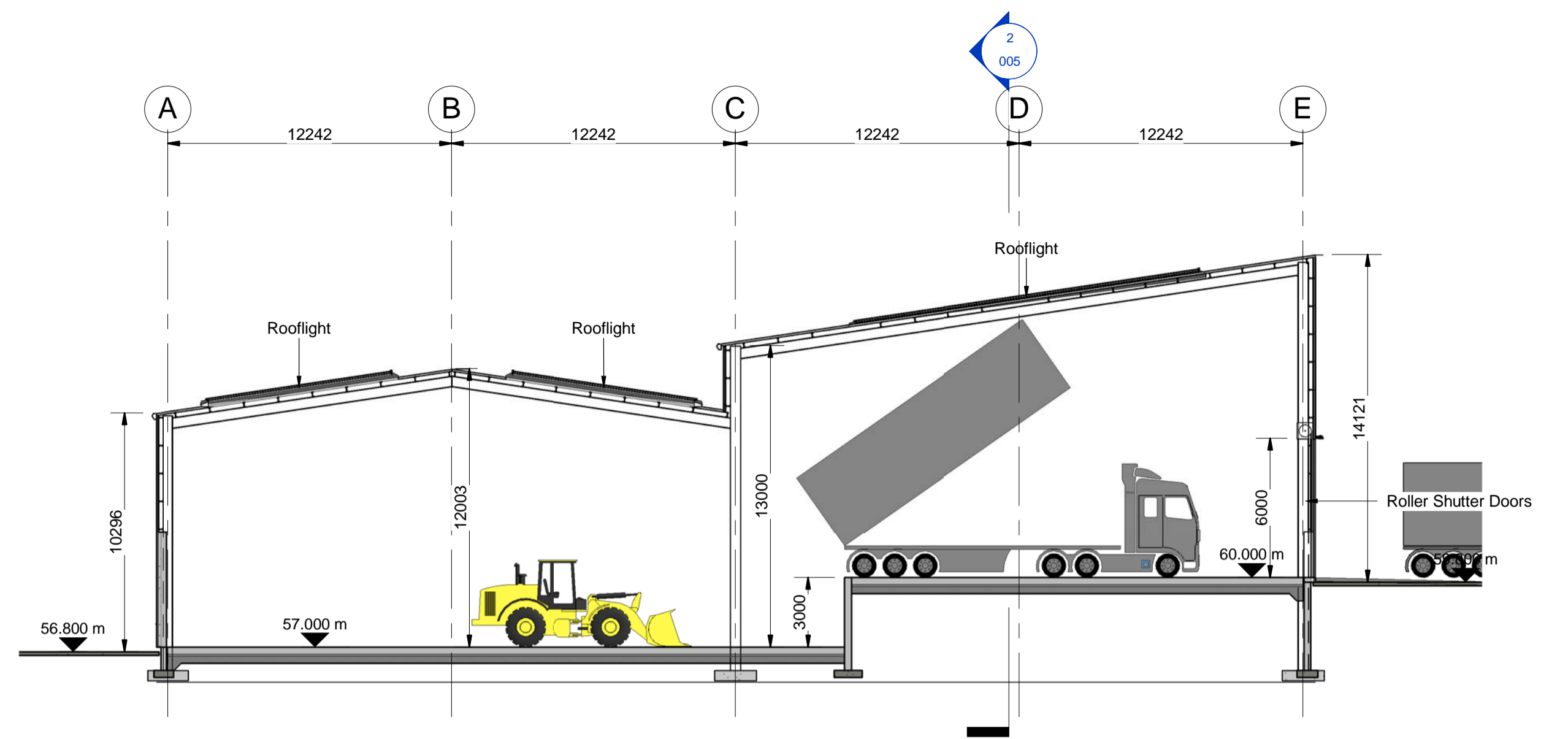
Date	09/27/17	Project number	LW14-821-01	Scale (@ A1)	1 : 200
Drawn by	SK	Drawing Number	LW14-821-01-P-1700-004	Rev	A
Checked by	CC				

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

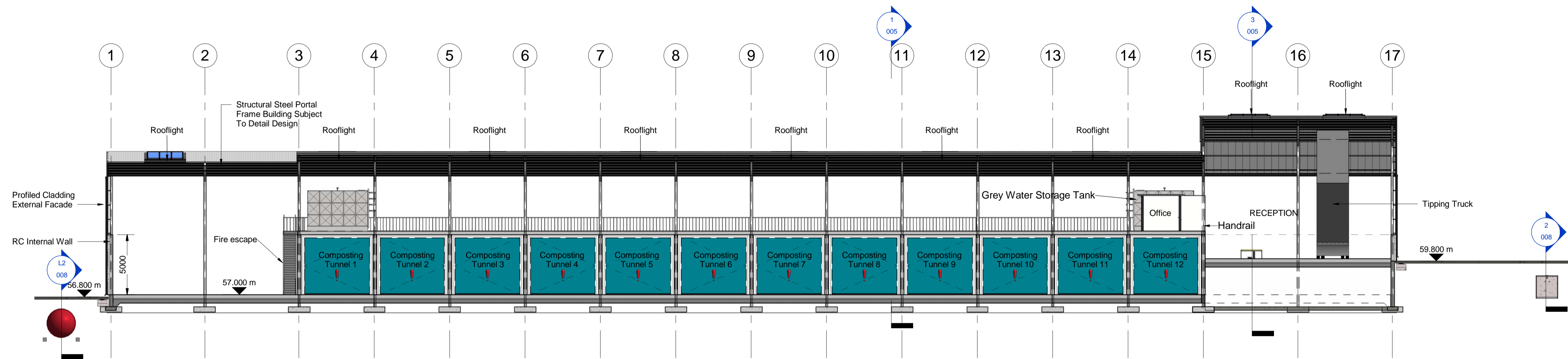
Drawing printed: 09/07/2018 10:23:42



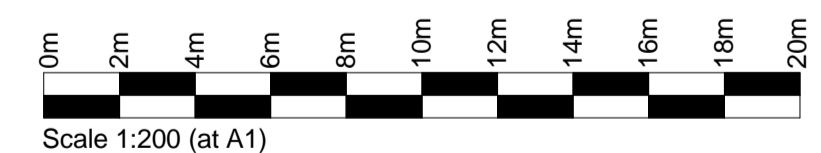
Section 1
(Scale 1 : 200)



Section 3
(Scale 1 : 200)



Section 2
(Scale 1 : 200)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

Core House,
Pouladuff Rd,
Cork, Ireland.

J5 Plaza,
North Park Business Park, North Road,
Dublin 11, Ireland

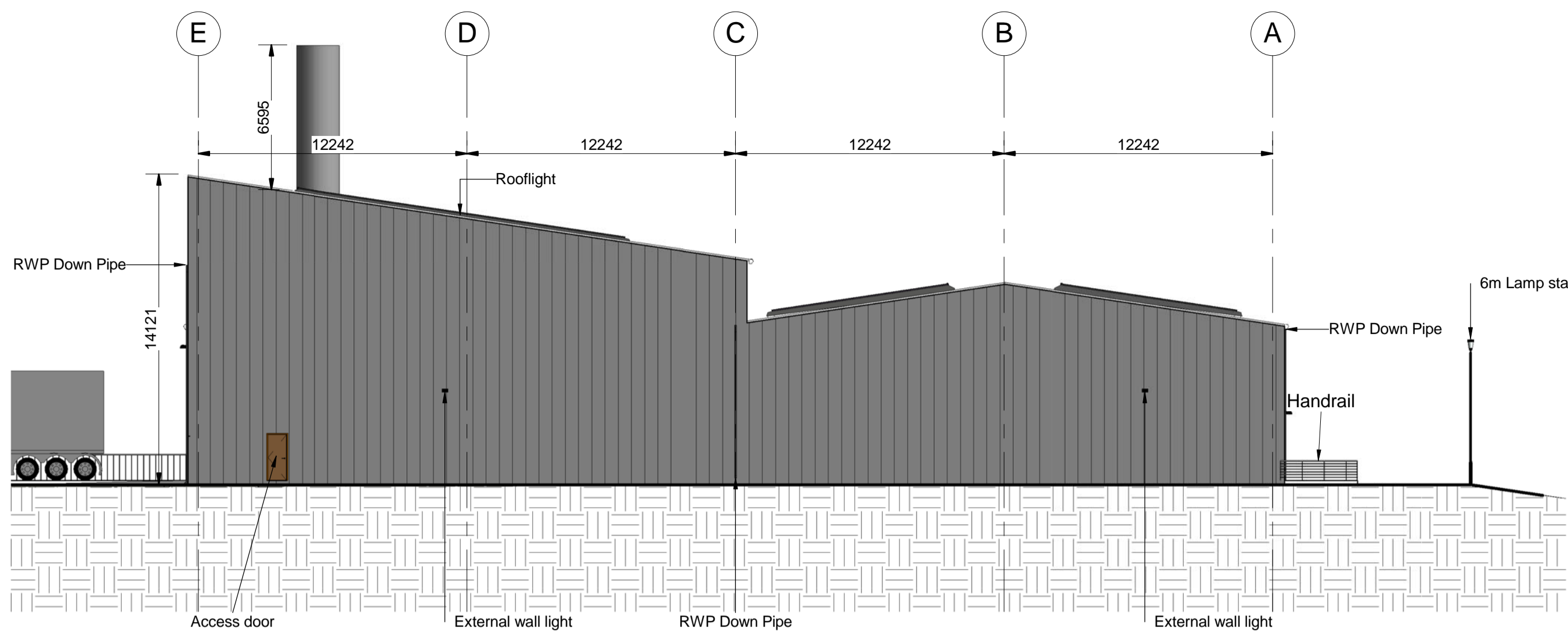
T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

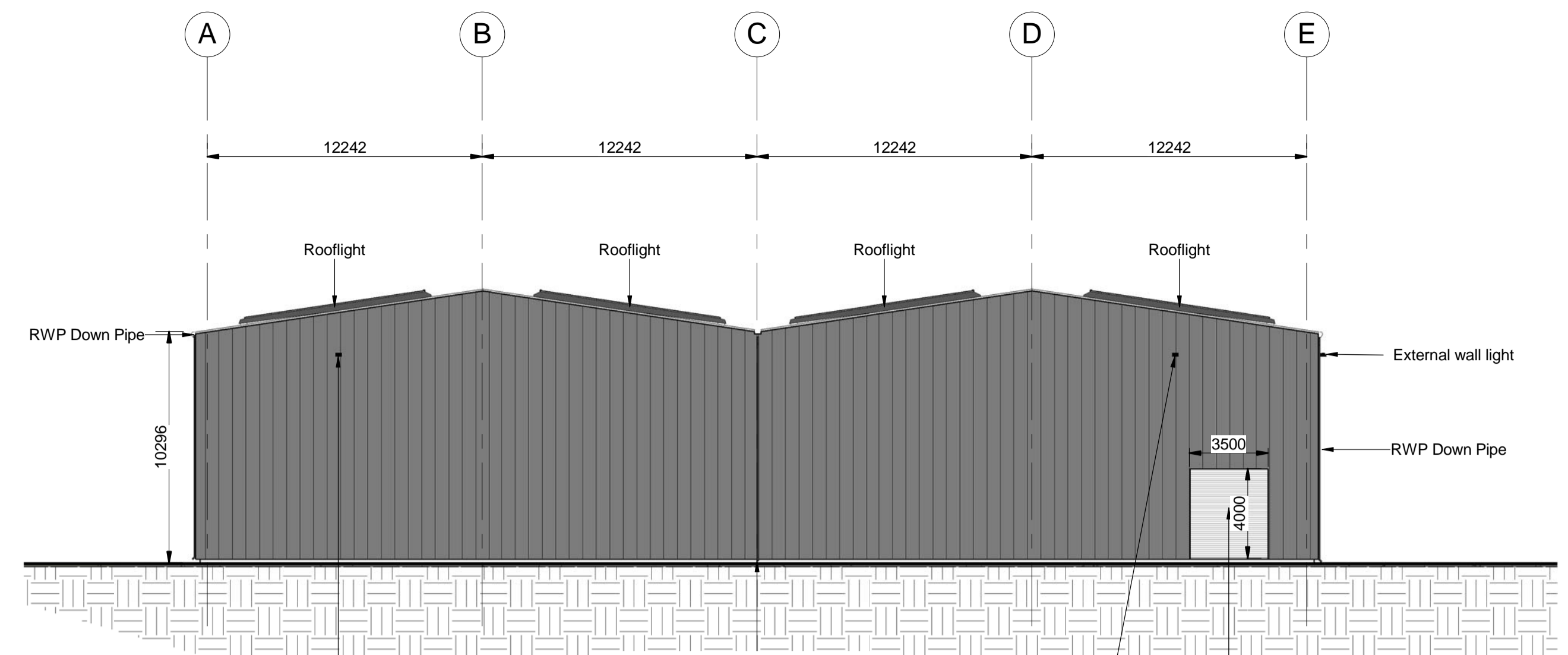
<p>PROJECT</p> <p style="text-align: center;">PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL</p> <p>SHEET</p> <p style="text-align: center;">PROPOSED BIOLOGICAL TREATMENT FACILITY CROSS SECTIONS</p>	<p>CLIENT</p> <p style="text-align: center;">KNOCKHARLEY LANDFILL Ltd.</p> <p>Date 09/27/17</p> <p>Project number LW14-821-01</p> <p>Scale (@ A1) 1 : 200</p> <p>Drawn by SK</p> <p>Drawing Number LW14-821-01-P-1700-005</p> <p>Checked by CC</p> <p style="text-align: right;">Rev A</p>
--	--

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 09/07/2018 10:23:52



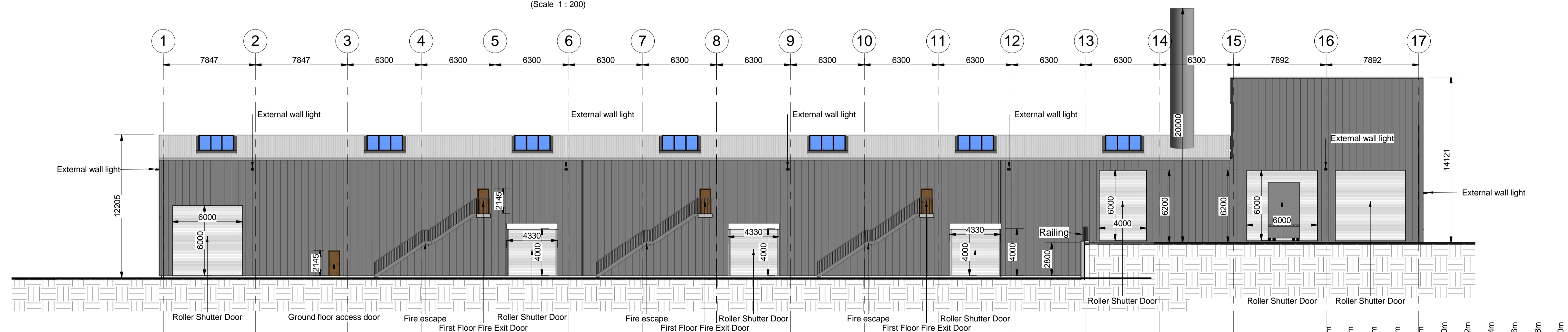
NORTH ELEVATION
(Scale 1 : 200)



SOUTH ELEVATION
(Scale 1 : 200)



WEST ELEVATION
(Scale 1 : 200)



EAST ELEVATION
(Scale 1 : 200)

EXTERNAL FINISH

1. WALLS - VERTICAL PROFILED INSULATED METAL CLADDING
2. ROOF - PROFILED INSULATED METAL ROOF PANEL SYSTEM
3. MUSHROOM COLOUR (RAL 1006020)

When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

SHEET

PROPOSED BIOLOGICAL TREATMENT FACILITY ELEVATIONS

CLIENT

KNOCKHARLEY LANDFILL Ltd.

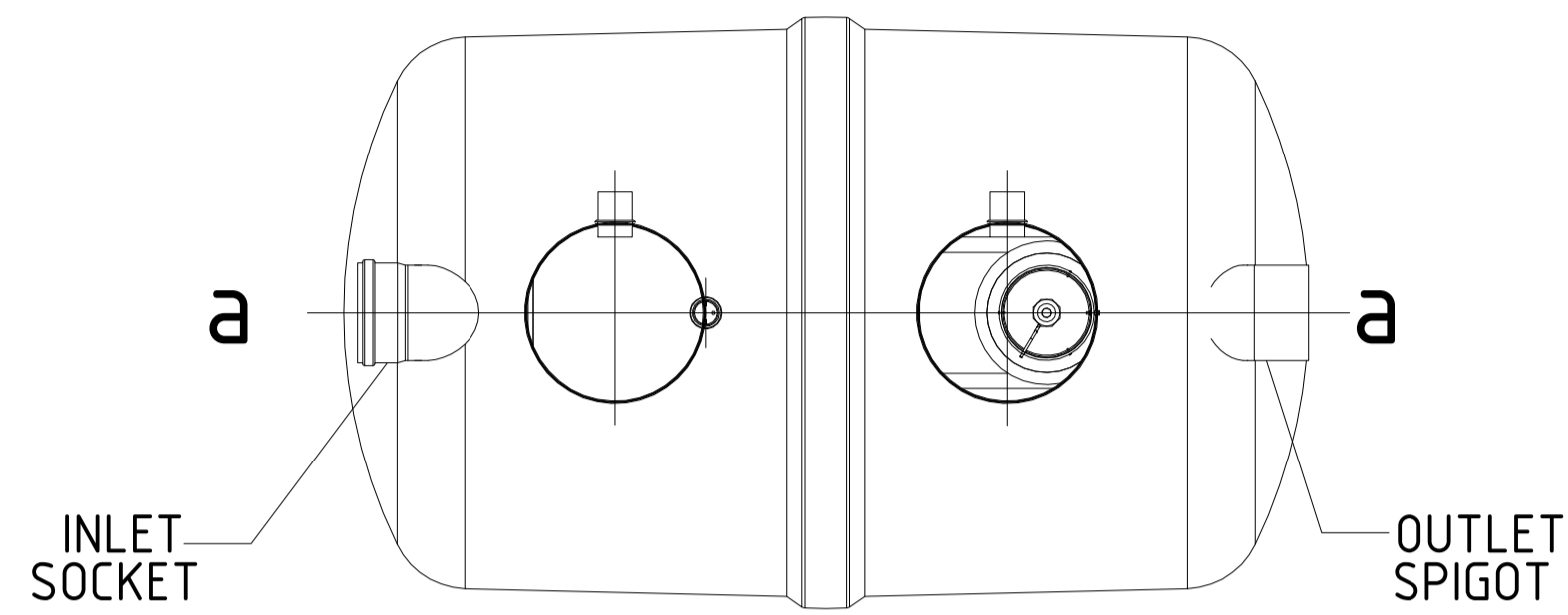
Date	09/27/17	Project number	LW14-821-01	Scale (@ A1)	1 : 200
Drawn by	SK	Drawing Number	LW14-821-01-P-1700-006	Rev	A
Checked by	CC				

UNIT REF.	NOMINAL FLOW RATE (L/s)	APPROX. EMPTY WEIGHT (kg)	OVERALL LENGTH 'L'
NSFA020	20	575	3200
NSFA030	30	665	3915
NSFA040	40	740	4640
NSFA050	50	985	5425
NSFA065	65	1145	6850

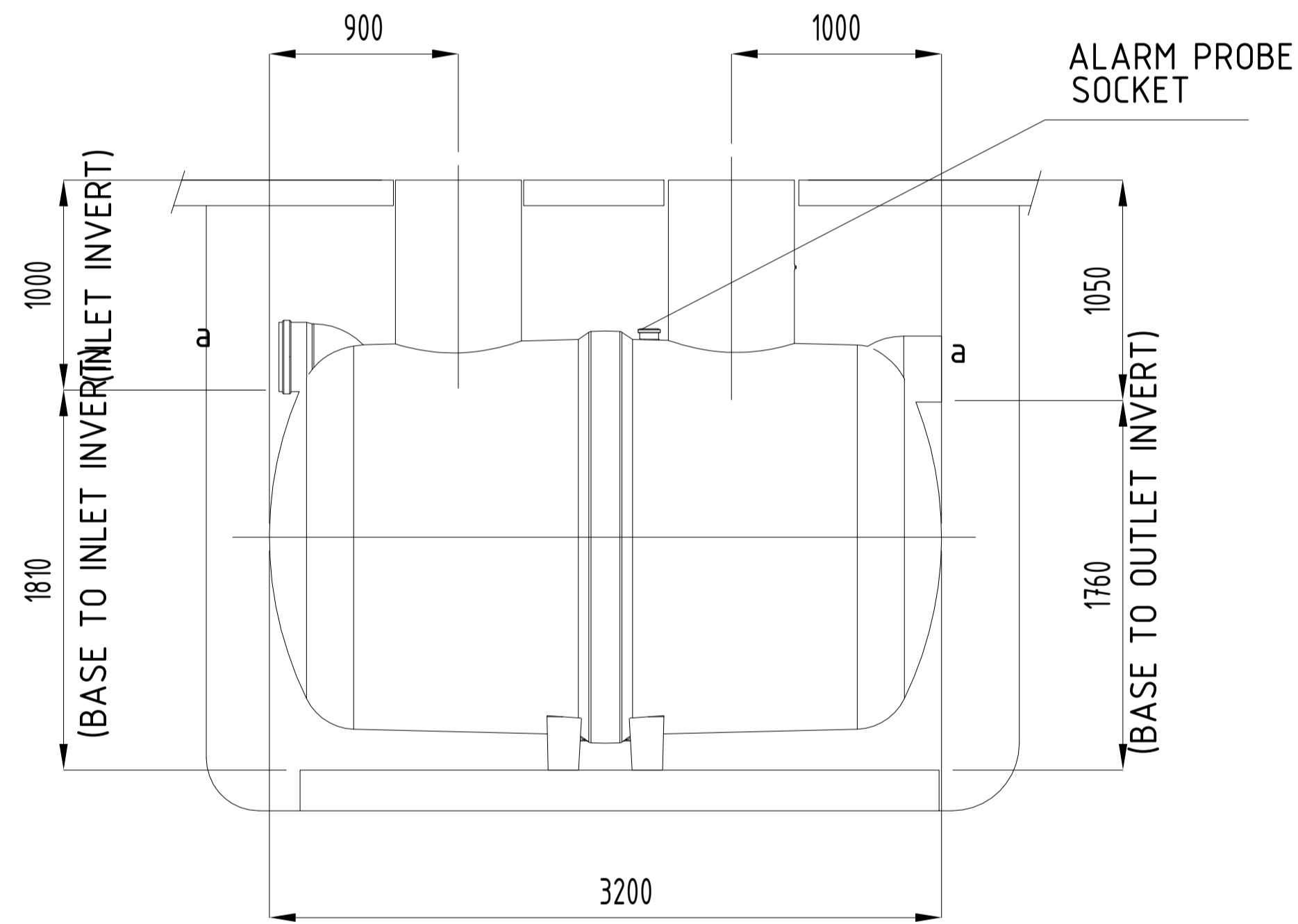
INFORMATION COMMON FOR CLASS 1 & CLASS 2 UNITS

NOTES:-

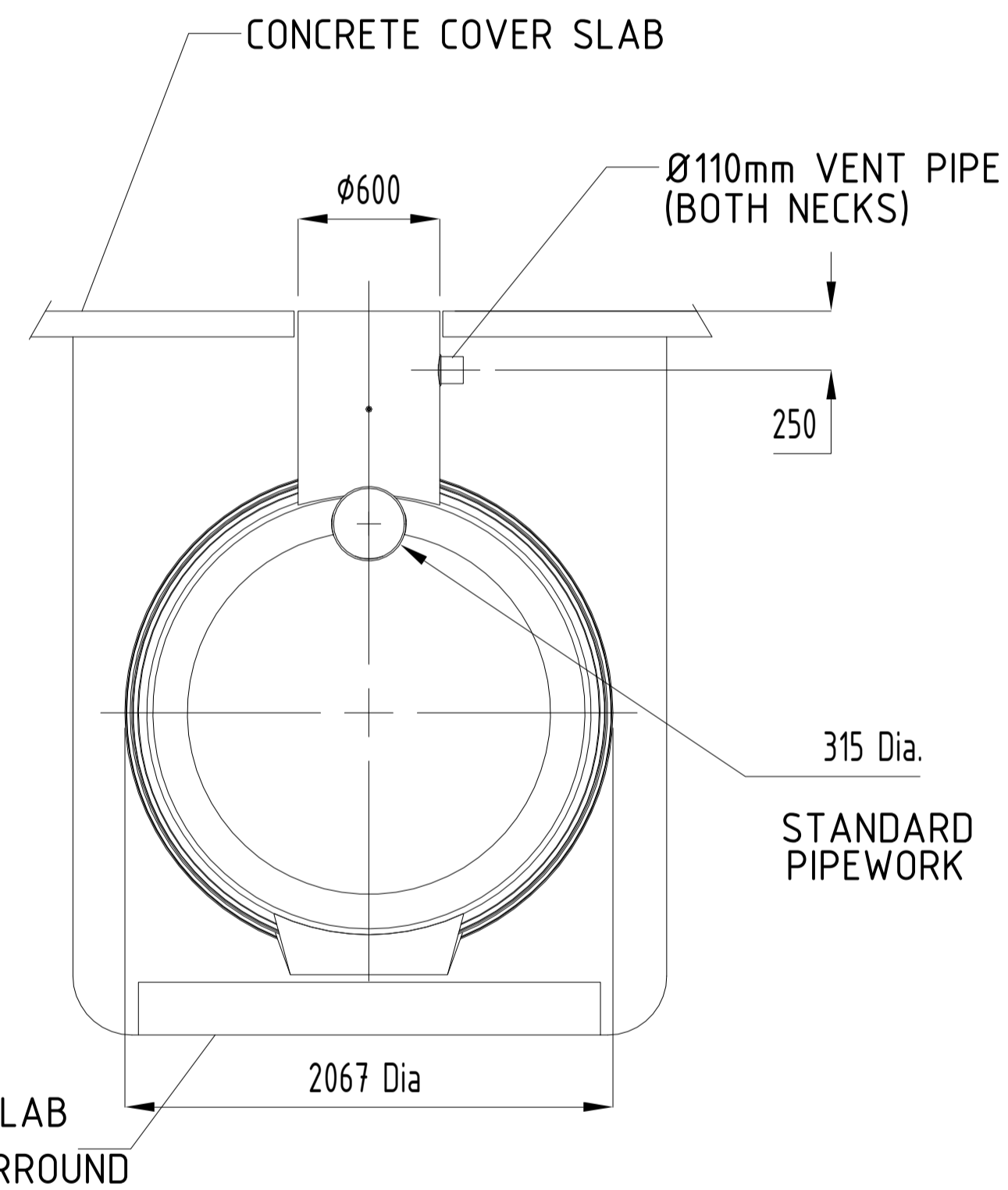
- Inlet/outlet pipes are plain pipe $\varnothing 315\text{mm}$ PVCu. The standard EN858 states minimum connection sizes, units ordered with different sized connections are not fully compliant with the standard.
- Please note. A Class 1 Separator includes filter media, Class 2 do not.
- Extension necks for deeper inverts can be provided in 0.5m increments, for on site assembly. Maximum 2.0m invert recommended.
- All units require appropriate cover and frame to suit applied loadings.
- This drawing should be used for dimensional information only. It is essential that this drawing is read in conjunction with installation guidelines supplied with unit. (copies are available from our sales department).
- This drawing is also available on our website www.kingspanenv.com



PLAN

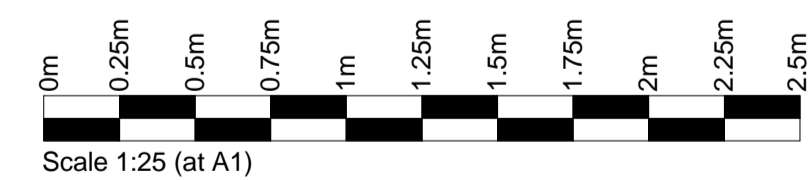


SIDE ELEVATION



END ELEVATION

KlargestorDetails
(Scale 1 : 25)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

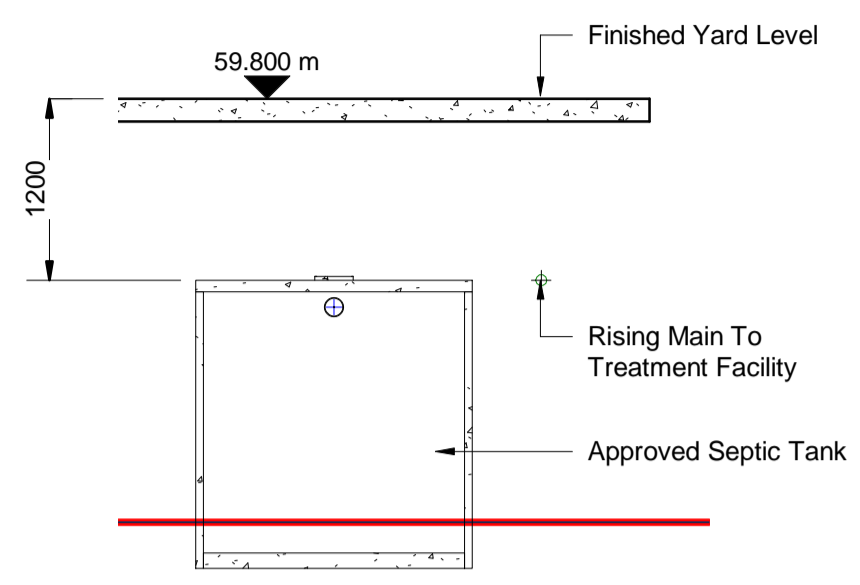
T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

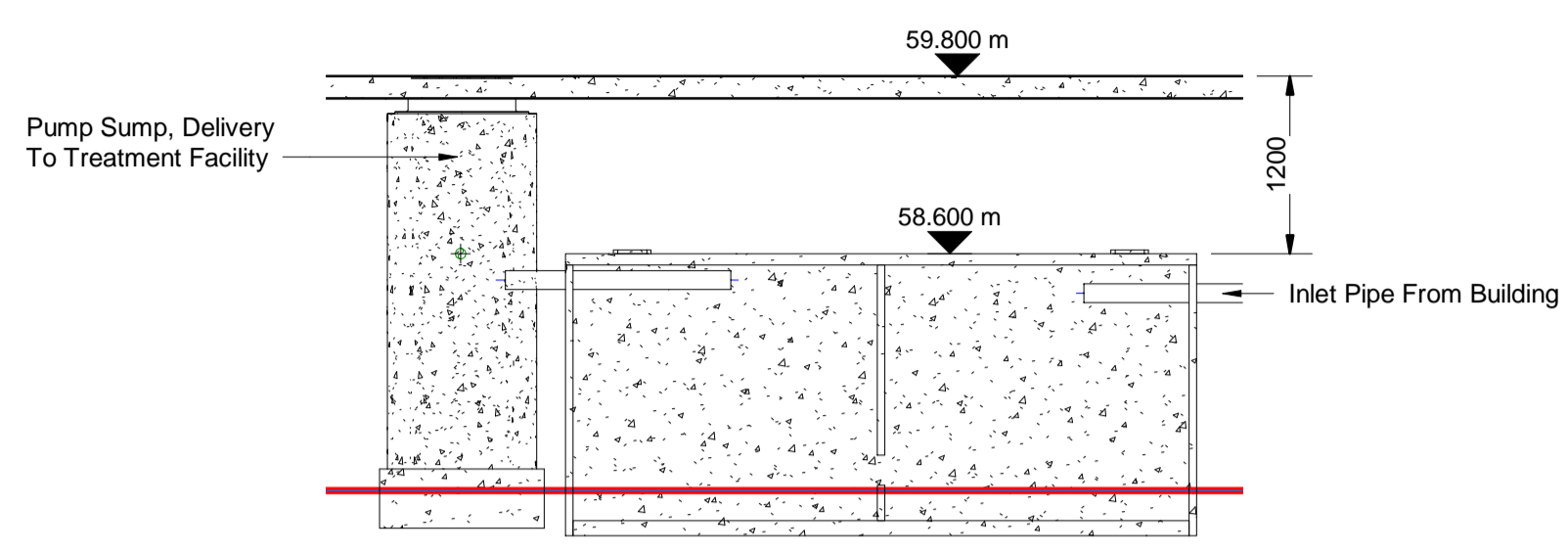
PROJECT	CIENT
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL	KNOCKHARLEY LANDFILL Ltd.
SHEET	Date 10/04/17 Project number LW14-821-01 Scale (@ A1) 1 : 25
DETAILS OF FULL RETENTION OIL INTERCEPTOR	Drawn by SK Drawing Number LW14-821-01-P-1700-007 Rev A
	Checked by CC

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

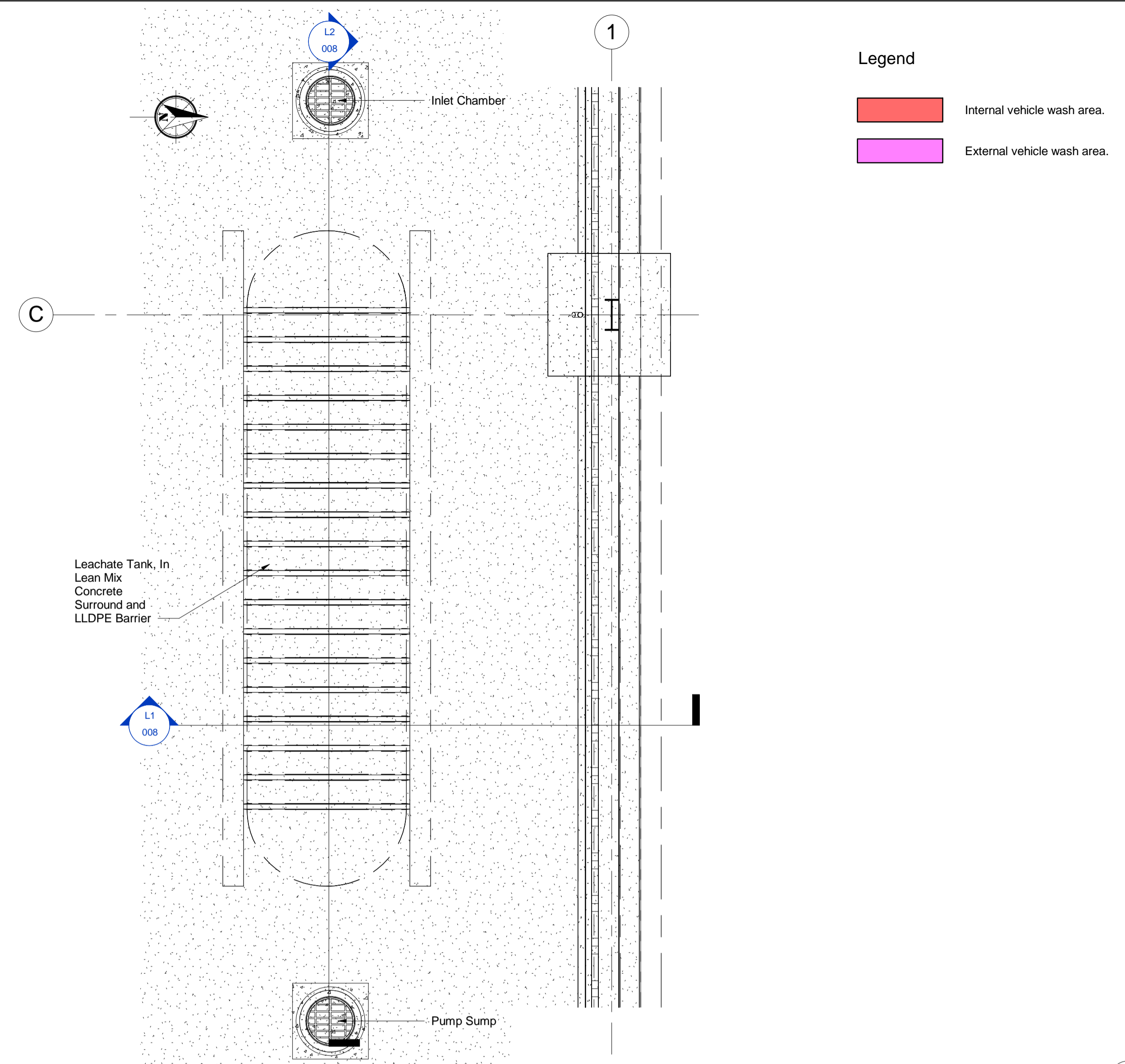
Drawing printed: 09/07/2018 10:24:05



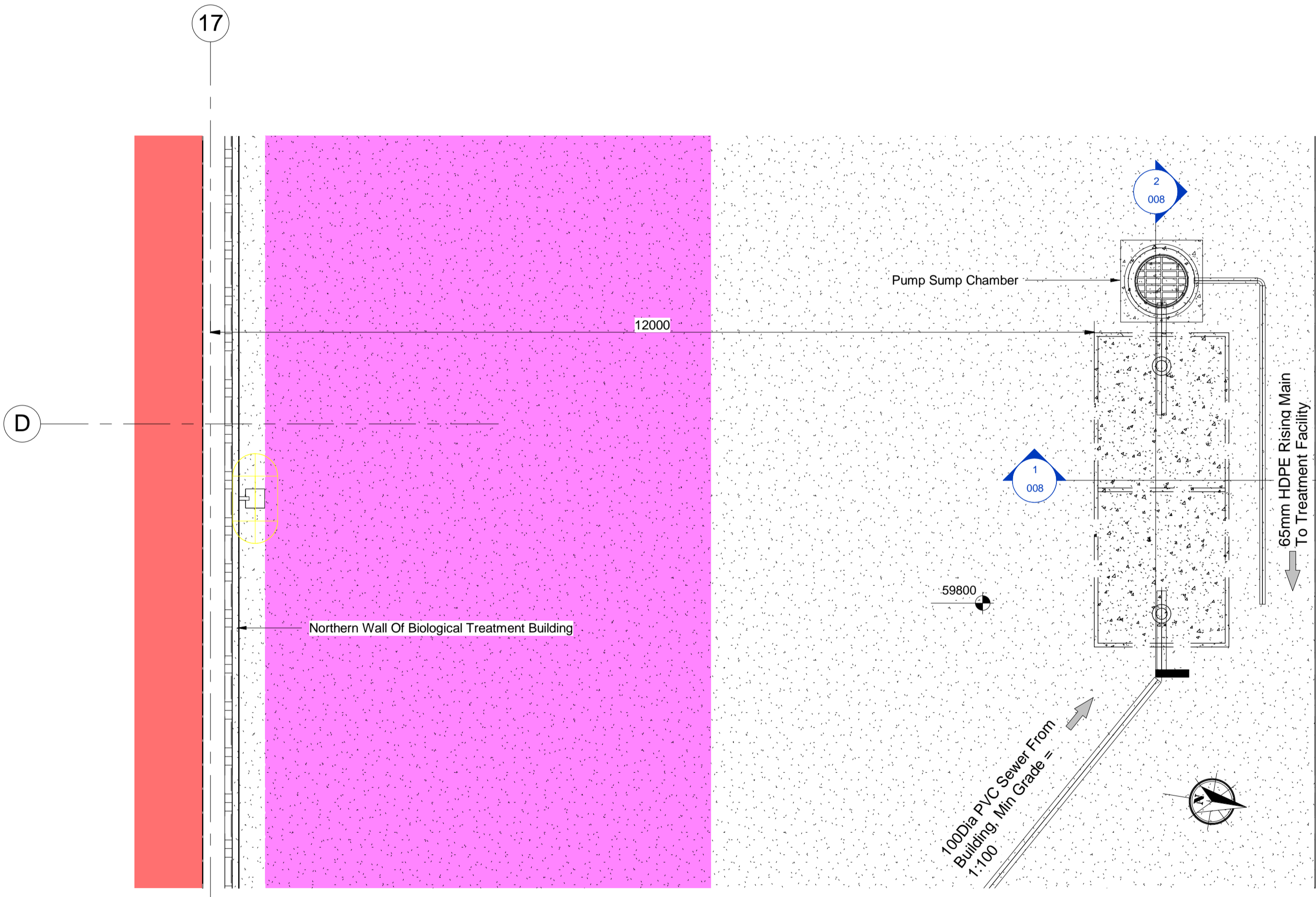
SECTION 1
(Scale 1 : 50)



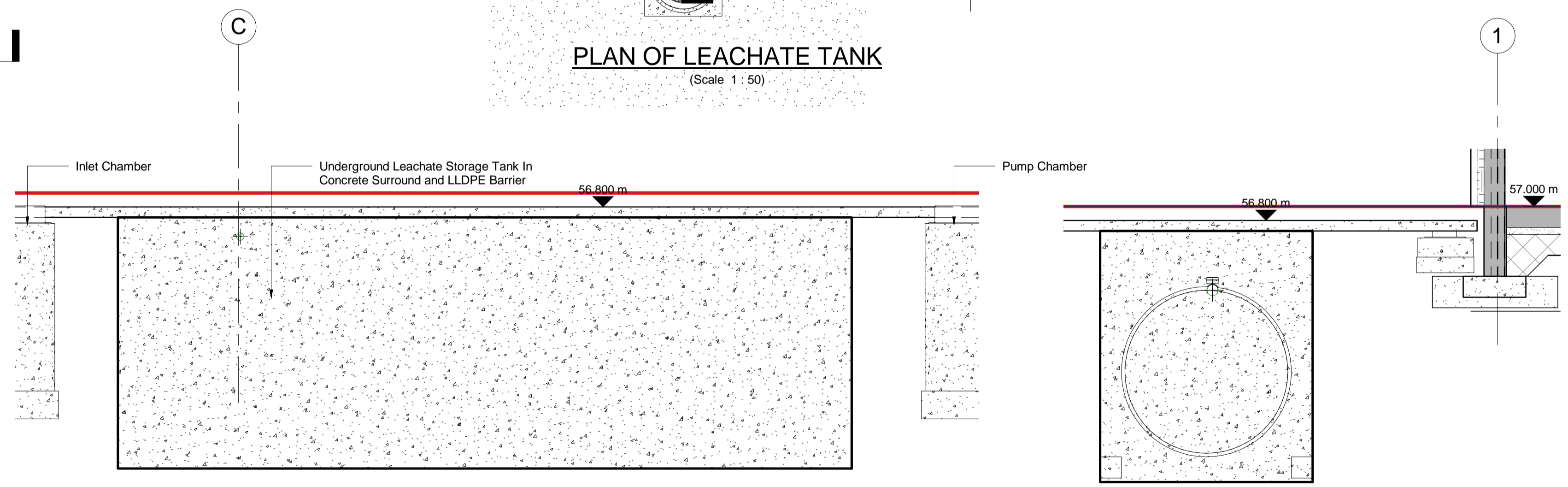
SECTION 2
(Scale 1 : 50)



PLAN OF LEACHATE TANK
(Scale 1 : 50)

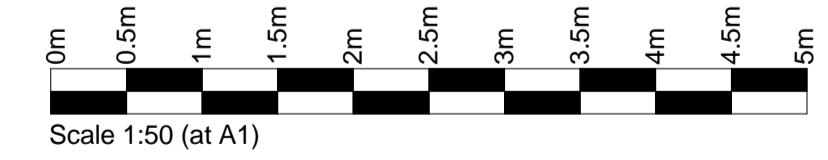


PLAN OF SEPTIC TANK
(Scale 1 : 50)



SECTION L2 - LEACHATE TANK
(Scale 1 : 50)

SECTION L1 - LEACHATE TANK
(Scale 1 : 50)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

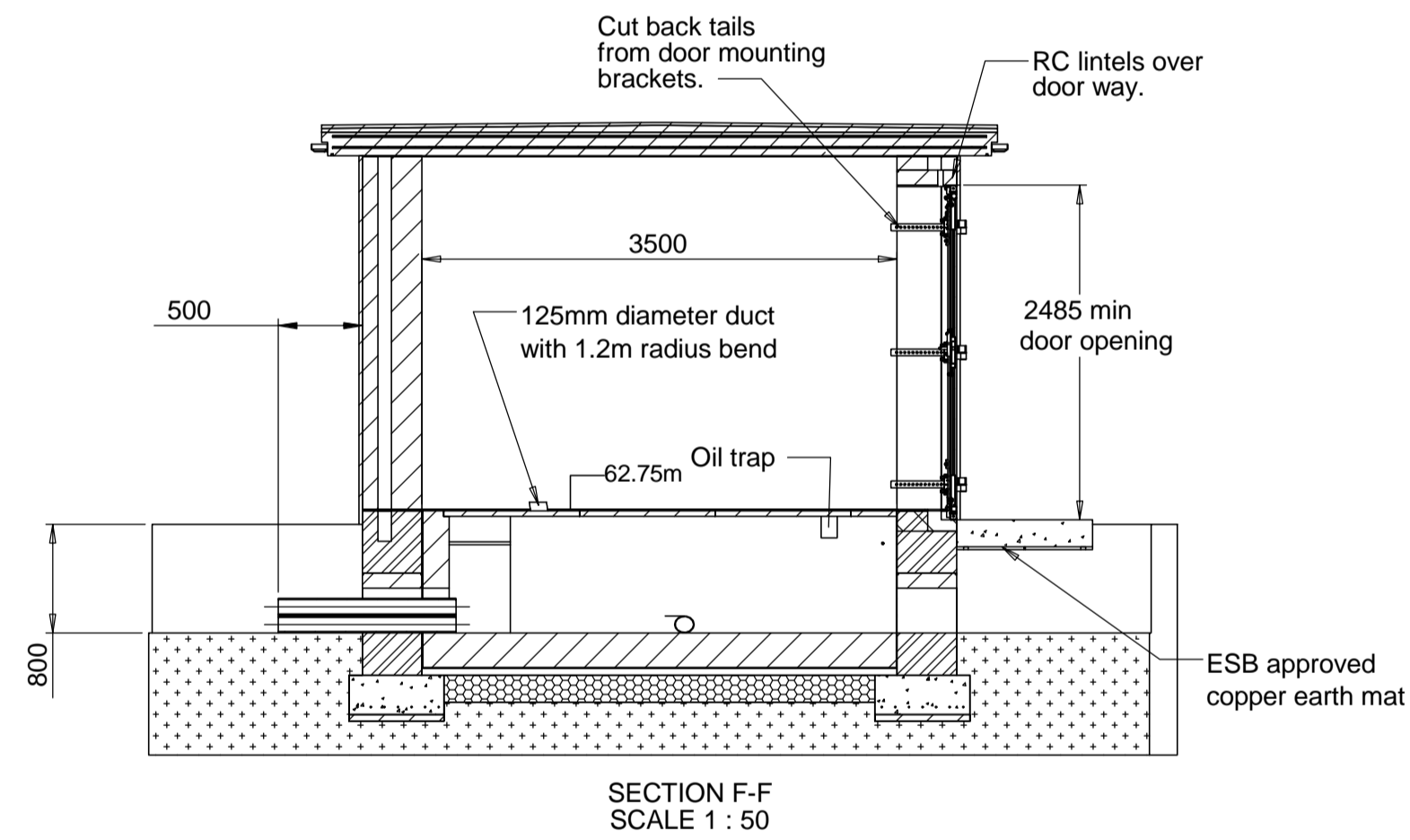
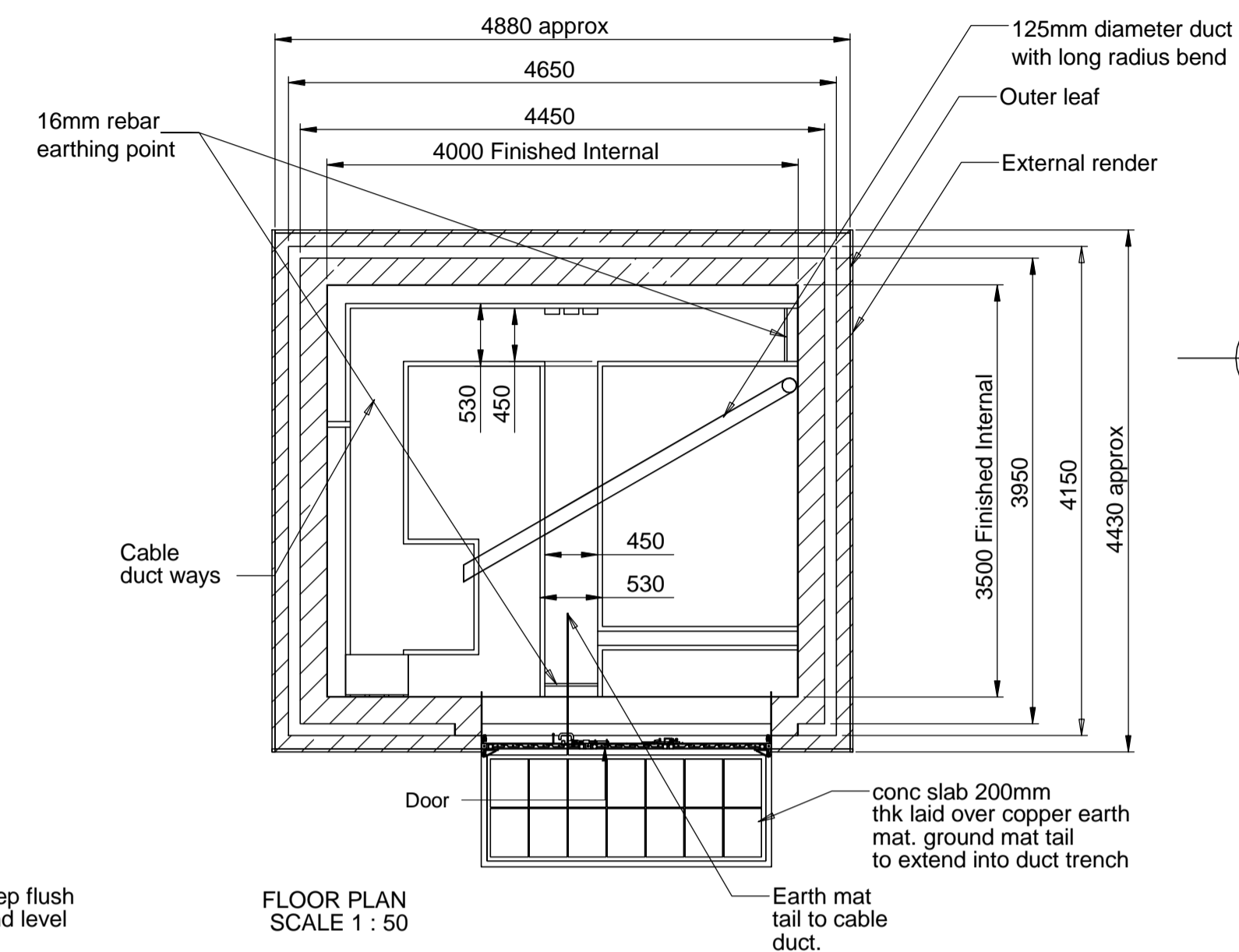
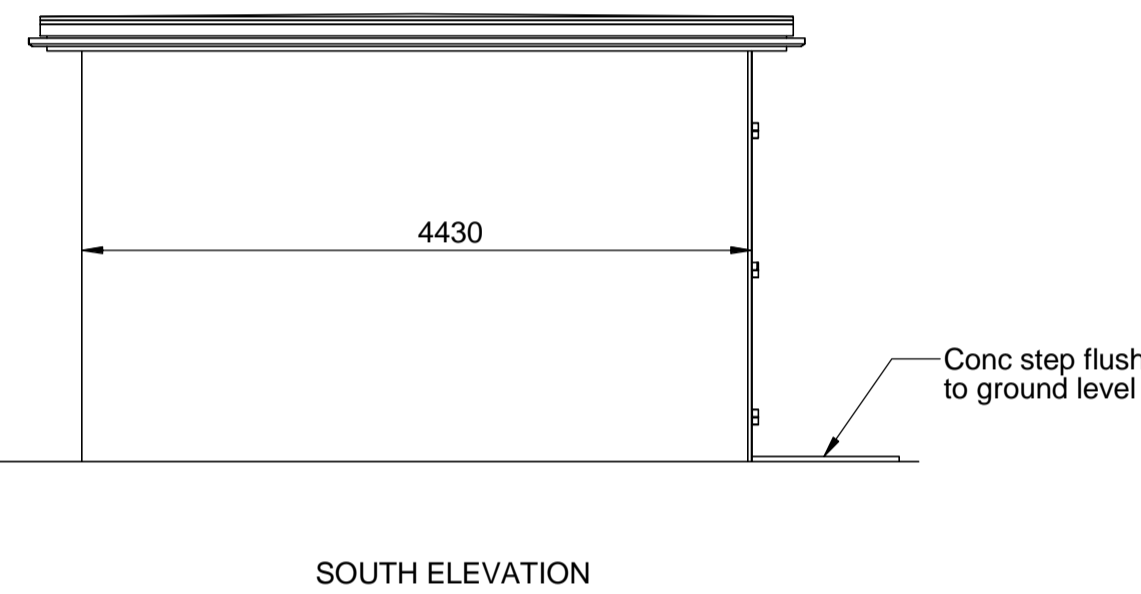
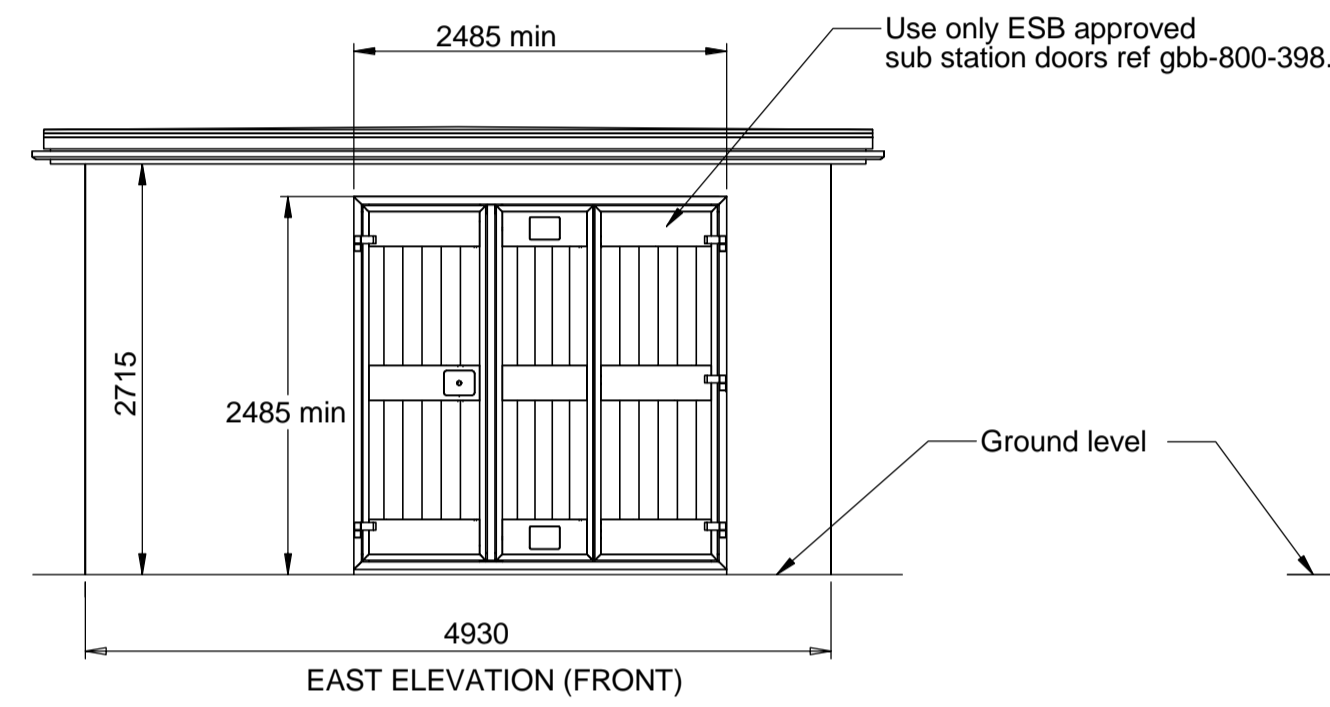
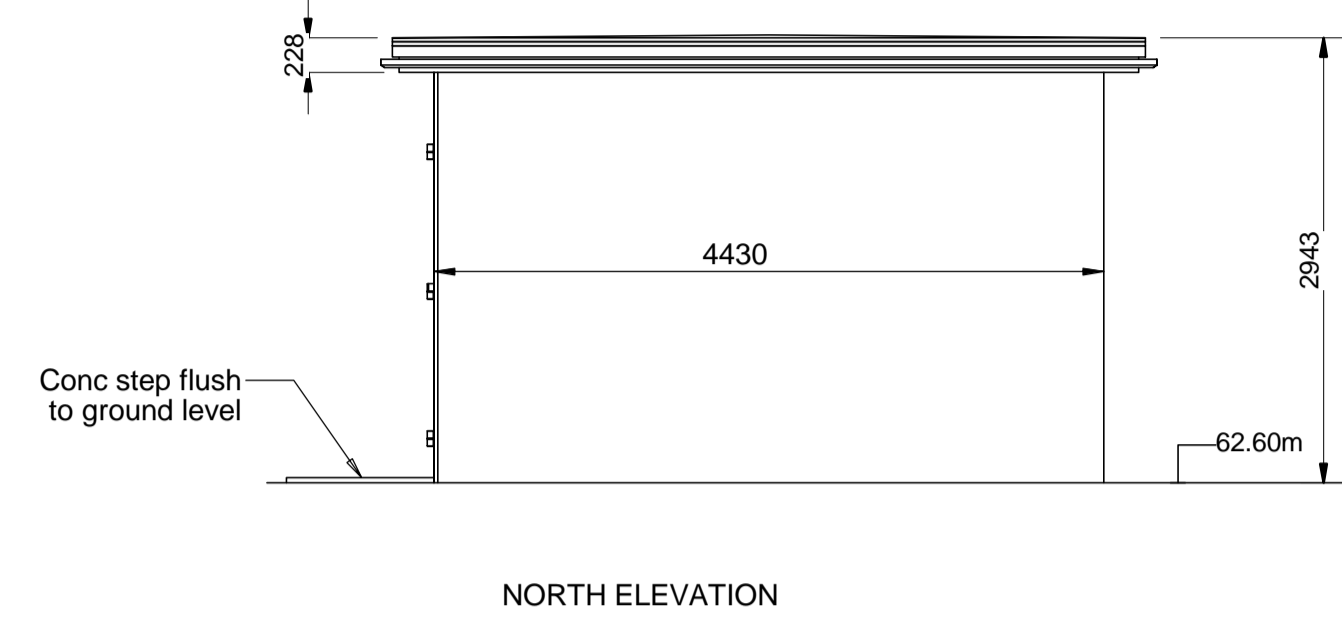
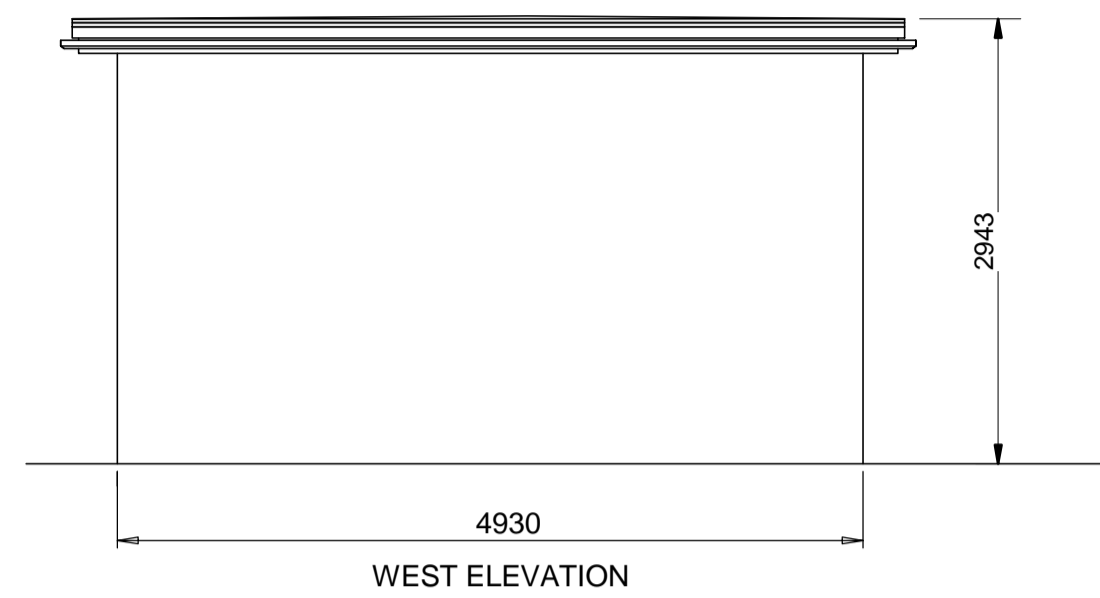
T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@fco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT	CLIENT
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL	KNOCKHARLEY LANDFILL Ltd.
SHEET	Date 02/15/18 Project number LW14-821-01 Scale (@ A1) As indicated
PROPOSED BIOLOGICAL TREATMENT FACILITY LEACHATE & SEPTIC TANK DETAILS	Drawn by SK Drawing Number LW14-821-01-P-1700-008 Checked by CC
	Rev A

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 09/07/2018 10:24:11



NOTES:

- GENERAL.**
The following notes refer to the siting for the sub-station.
- ACCESS.**
The substation building must be located at ground level. Vehicular access may be required at any time of day or night. The station will have an access corridor of at least 3m wide and 4m high. The maximum slope of access will be 1:10.
Where necessary, a driveway 3m wide will be laid. The driveway will be 100mm of concrete on 150mm bed of well compacted hard core.
If the sub-station is to be located in a car park, it may be necessary to install demountable bollards or paint yellow hatching on the ground to ensure that ESB can gain un-restricted access to the station.
- SITING OF THE STATION WITHIN A BUILDING COMPLEX (An Incorporated MV Station).**
Where substation doors are more than 10m from main entrances and exits, air conditioning intakes, escape ways, oil pipes, gas pipes, fuel tanks or similar risks, then will be no more additional fire safety requirements.
Where substation doors are less than 10m from main entrances and exits, air conditioning intakes, escape ways, oil pipes, gas pipes, fuel tanks or similar risks, then additional precautions shall be taken and written agreement must be obtained from the Fire Officer.
If there are windows within a 3m radius of the substation door frame, the rooms, units or apartments served by the windows shall have an alarm activated by a detector in the substation.
- DRAINAGE.**
Adequate below ground level drainage must be provided to ensure that the substation and ducts are not liable to flood.

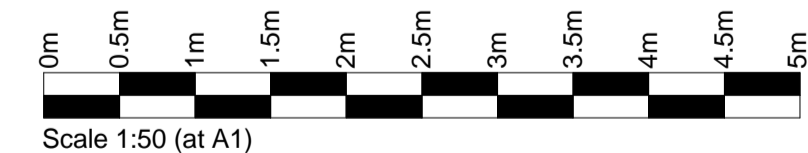
NOTES cont... :

- RAINWATER PIPE.**
For free standing stations a non metallic rain water pipe must be provided. Drainage pipes must not pass inside the sub-station.
- DOORS.**
Special doors have been designed to include vertical louvres for ventilation. It must be possible to open the doors through 180 degrees. The doors are available in one standard size and the door open must be made to accommodate these. The open size must be 2485 X 2485mm -0mm / +20mm.
- EARTHING.**
To ensure electrical safety, the re-inforcing steel incorporated in the sub-station floor will be earthed. The earthed reinforcing steel in the floor must not be connected to any other steelwork.
Connection points and electrical test points are shown in Fig's A & B in sheet 2 of this drawing.
- NO IMPEDIMENTS.**
There must be no impediments (beams, columns etc) within the substation. Pipes or other services not related to the electricity connection must not be routed through the substation.

A number of possible duct locations are shown on all four sides of the substation building. Details of cable trench layout shall be discussed with a local ESB representative to determine duct installation best suited to the particular site.

ESB SUB STATION DETAILS

(Scale 1 : 50)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

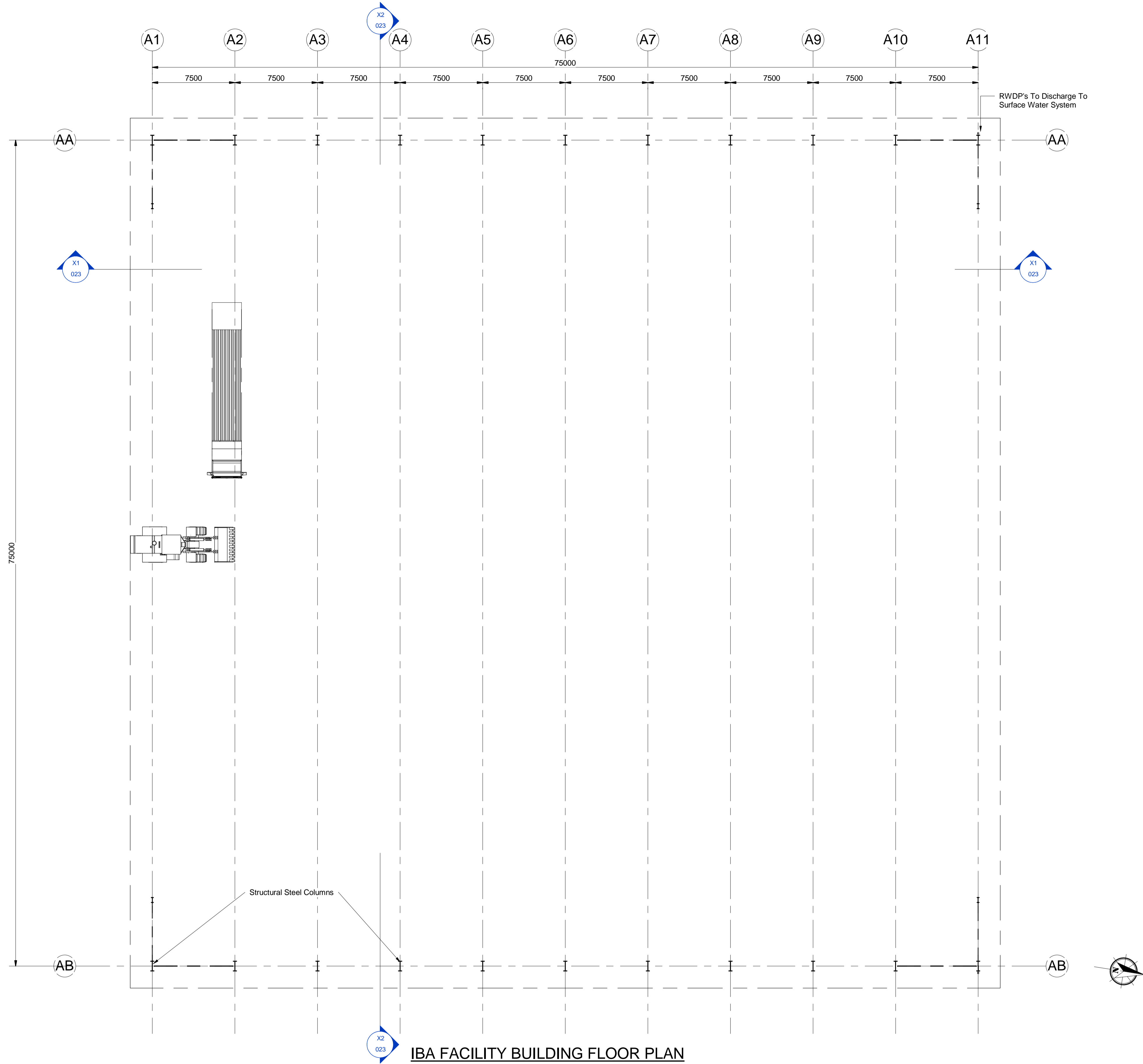
Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT	PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL
SHEET	ESB MV SUBSTATION DETAILS

KNOCKHARLEY LANDFILL Ltd.			
Date	11/07/17	Project number	LW14-821-01
Drawn by	SK	Drawing Number	LW14-821-01-P-1700-010
Checked by	CC	Scale (@ A1)	1 : 50
		Rev	A



IBA FACILITY BUILDING FLOOR PLAN
(Scale 1 : 200)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

Core House,
Pouladuff Rd,
Cork, Ireland.

J5 Plaza,
North Park Business Park, North Road,
Dublin 11, Ireland

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

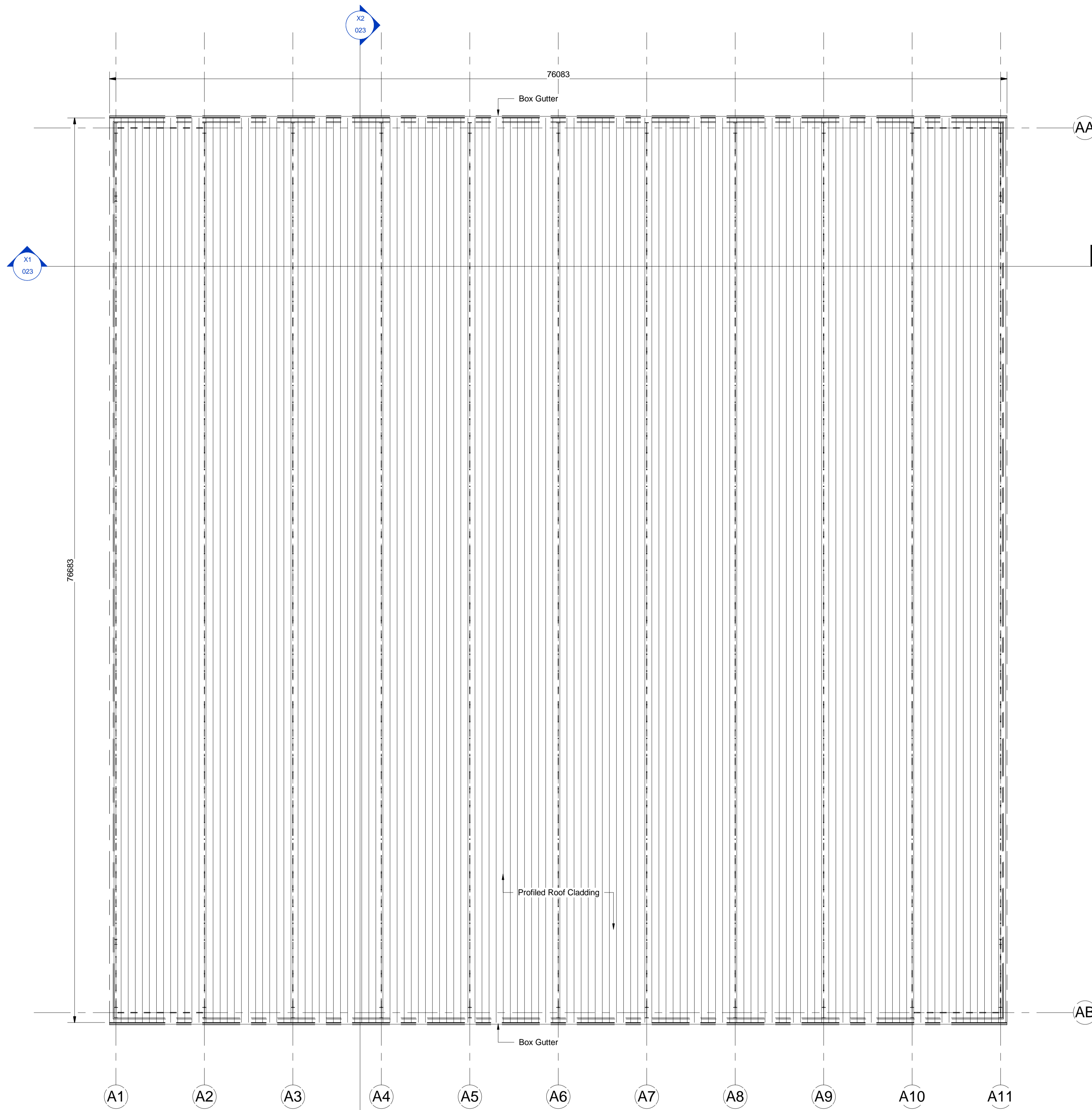
CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT	PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL
SHEET	PROPOSED IBA FACILITY BUILDING FLOOR PLAN

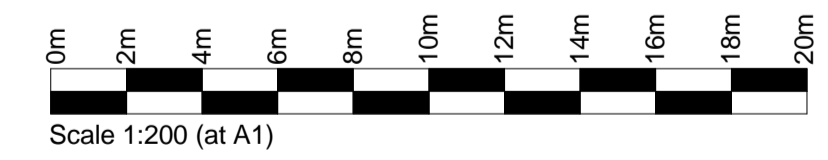
KNOCKHARLEY LANDFILL Ltd.		
Date	Project number	Scale (@ A1)
02/23/18	LW14-821-01	1 : 200
Drawn by	Drawing Number	Rev
SK	LW14-821-01-P-1700-021	A
Checked by		
CC		

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

Drawing printed: 09/07/2018 10:24:20



IBA ROOF PLAN
(Scale 1 : 200)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

Core House,
Pouladuff Rd,
Cork, Ireland.

J5 Plaza,
North Park Business Park, North Road,
Dublin 11, Ireland

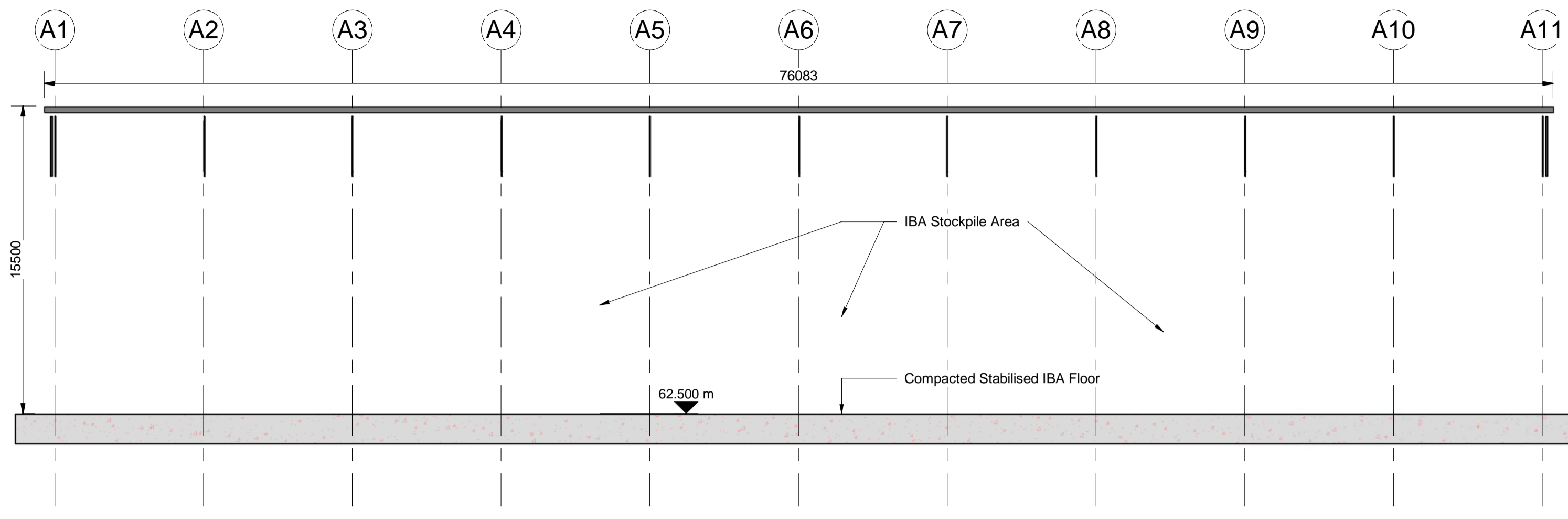
T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@fco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

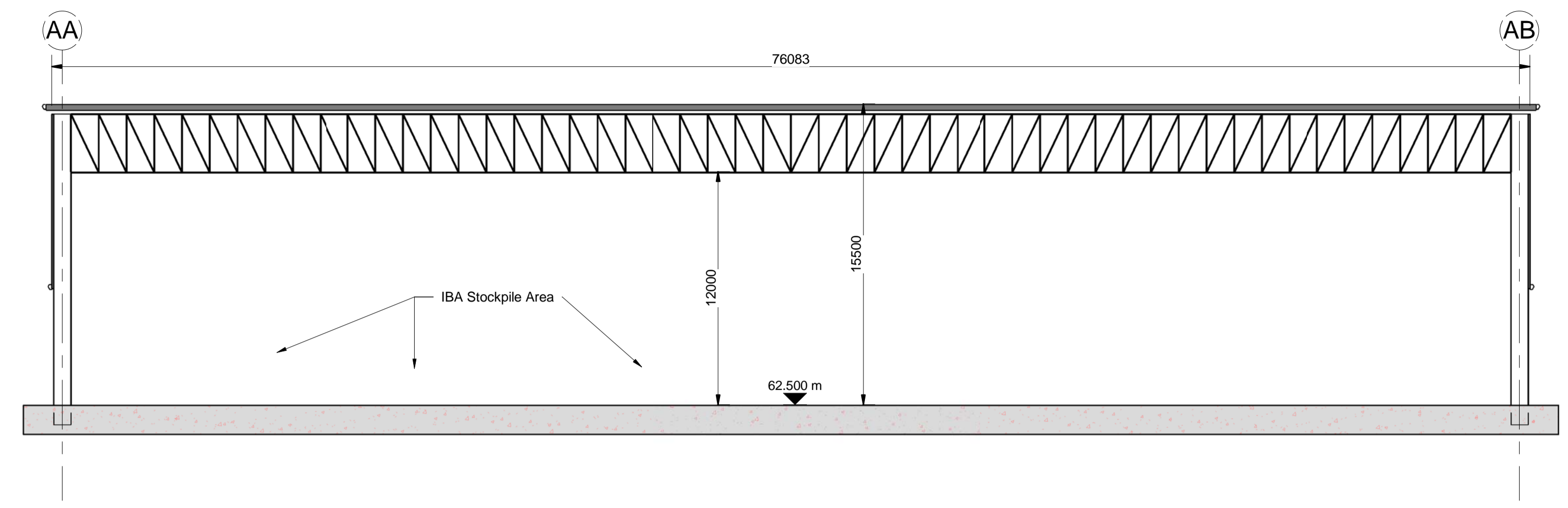
<p>PROJECT</p> <p style="text-align: center;">PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL</p>	<p>CLIENT</p> <p style="text-align: center;">KNOCKHARLEY LANDFILL Ltd.</p>																		
<p>SHEET</p> <p style="text-align: center;">PROPOSED IBA FACILITY BUILDING ROOF PLAN</p>	<table border="1" style="width: 100%;"> <tr> <td>Date</td> <td>02/26/18</td> <td>Project number</td> <td>LW14-821-01</td> <td>Scale (@ A1)</td> <td>1 : 200</td> </tr> <tr> <td>Drawn by</td> <td>SK</td> <td>Drawing Number</td> <td colspan="3">LW14-821-01-P-1700-022</td> </tr> <tr> <td>Checked by</td> <td>CC</td> <td>Rev</td> <td colspan="3">A</td> </tr> </table>	Date	02/26/18	Project number	LW14-821-01	Scale (@ A1)	1 : 200	Drawn by	SK	Drawing Number	LW14-821-01-P-1700-022			Checked by	CC	Rev	A		
Date	02/26/18	Project number	LW14-821-01	Scale (@ A1)	1 : 200														
Drawn by	SK	Drawing Number	LW14-821-01-P-1700-022																
Checked by	CC	Rev	A																

No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission of Fehily Timoney & Company as copyright holder except as agreed for use on the project for which the document was originally issued. Do not scale. Use figured dimensions only. If in doubt - Ask!

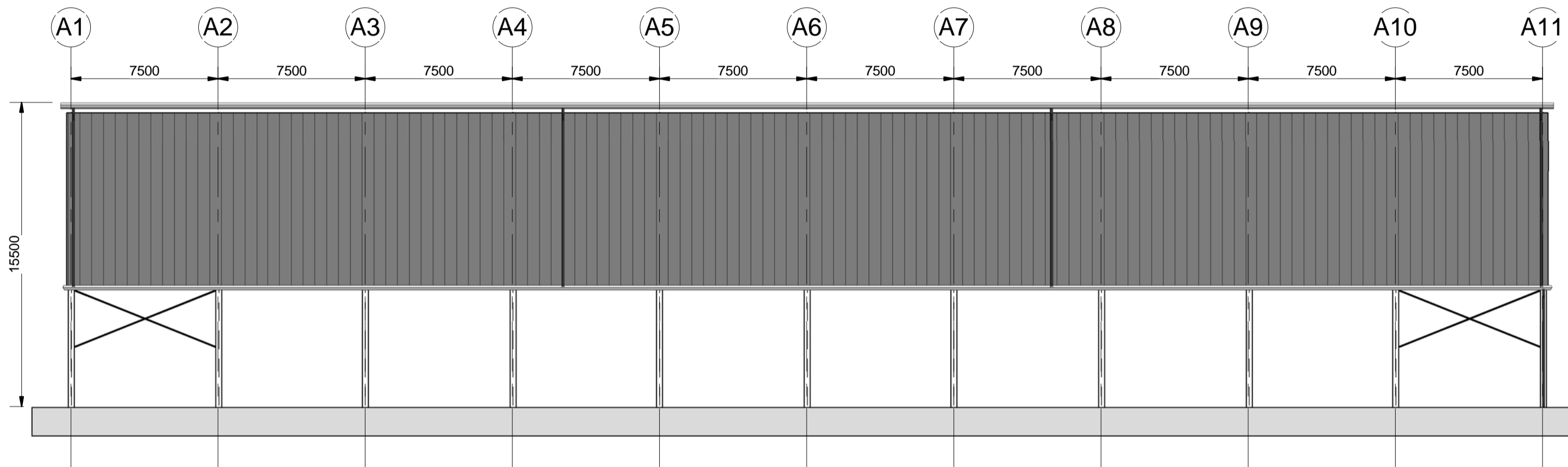
Drawing printed: 09/07/2018 10:24:26



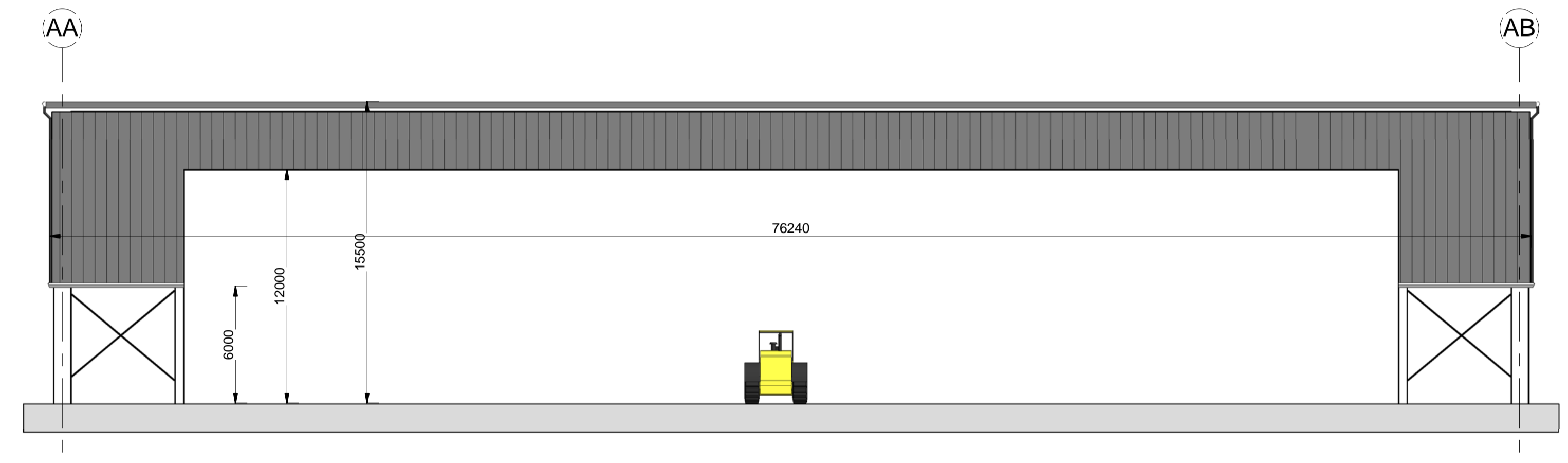
X1 SECTION A-A THROUGH IBA BUILDING
(1 : 200)



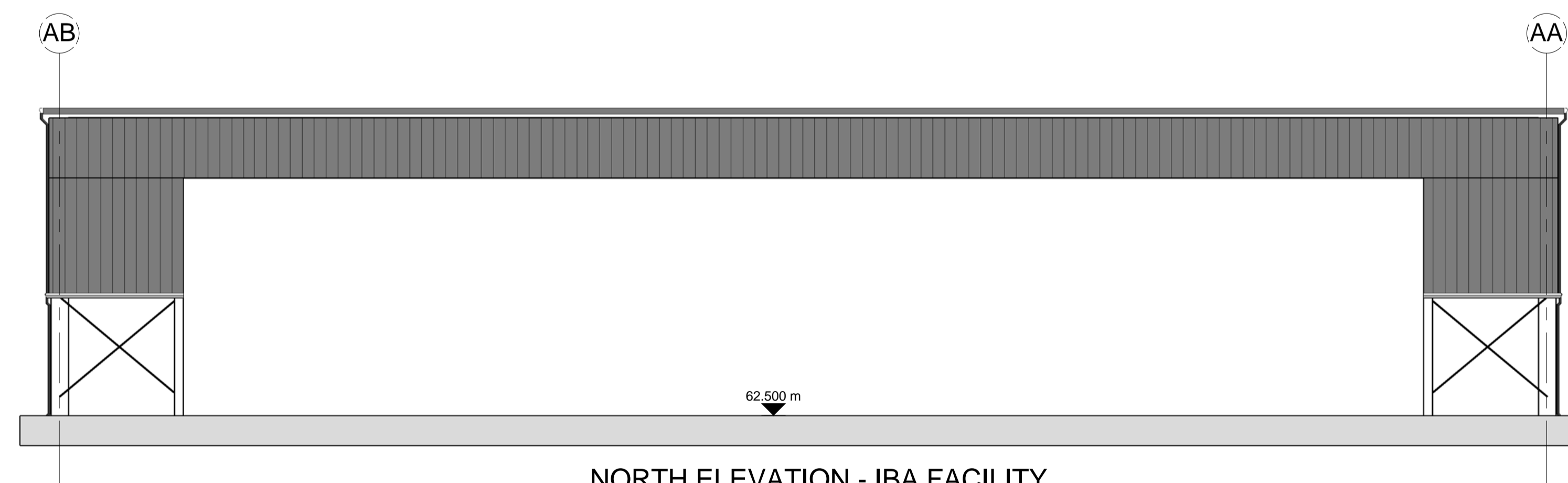
X2 SECTION B-B THROUGH IBA BUILDING
(1 : 200)



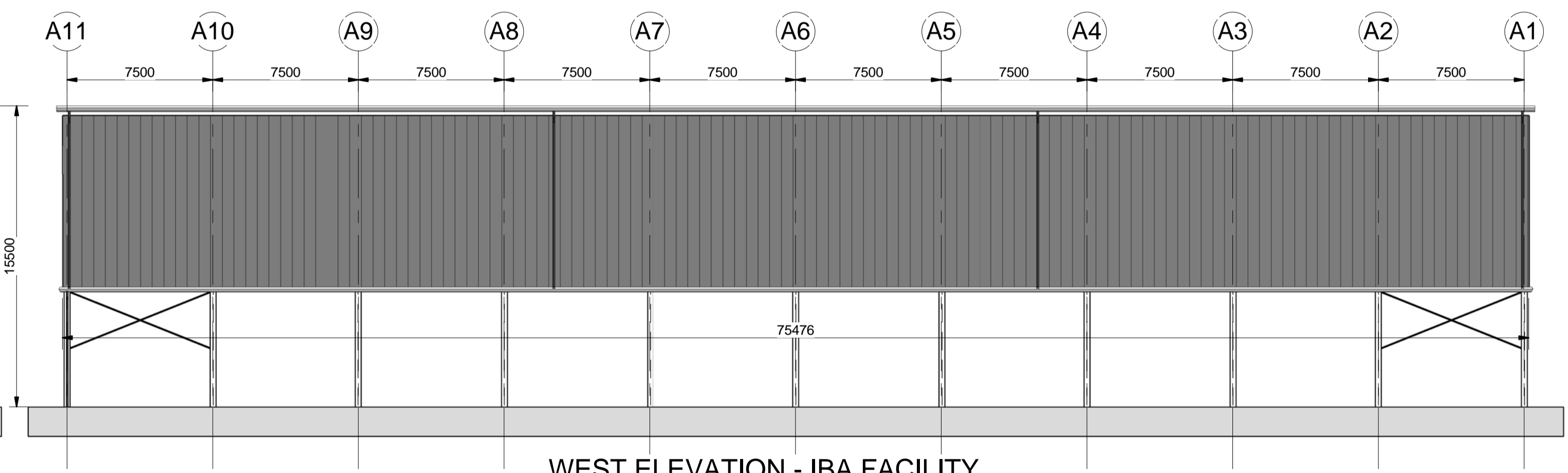
EAST ELEVATION - IBA FACILITY
(Scale 1 : 200)



SOUTH ELEVATION - IBA FACILITY
(Scale 1 : 200)

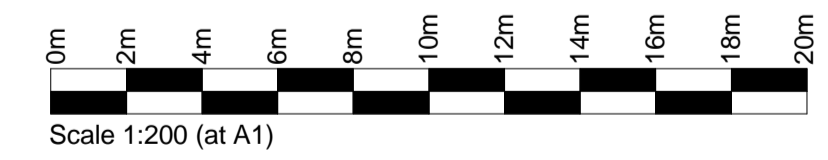


NORTH ELEVATION - IBA FACILITY
(Scale 1 : 200)



WEST ELEVATION - IBA FACILITY
(Scale 1 : 200)

- EXTERNAL FINISH**
1. WALLS - VERTICAL PROFILED INSULATED METAL CLADDING
 2. ROOF - PROFILED INSULATED METAL ROOF PANEL SYSTEM
 3. MUSHROOM COLOUR (RAL 1006020)



When Applicable : Ordnance Survey Ireland Licence No. EN 0001217 © Ordnance Survey Ireland and Government of Ireland. Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

CONSULTANTS IN ENGINEERING & ENVIRONMENTAL SCIENCES

FEHILY TIMONEY & COMPANY

Core House, Pouladuff Rd, Cork, Ireland. J5 Plaza, North Park Business Park, North Road, Dublin 11, Ireland.

T: +353-21-4964133, F: +353-21-4964464 T: +353-1-6583500, F: +353-1-6583501 W: www.fehilytimoney.ie, E: info@ftco.ie

CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

SHEET

PROPOSED IBA FACILITY BUILDING SECTION AND ELEVATIONS

CLIENT

KNOCKHARLEY LANDFILL Ltd.

Date	02/26/18	Project number	LW14-821-01	Scale (@ A1)	1 : 200
Drawn by	SK	Drawing Number	LW14-821-01-P-1700-023	Rev	A
Checked by	CC				