

# APPLICATION TO THE EPA FOR A WASTE LICENCE

Kildare Sand & Gravel Limited, Boherkill, Rathangan, Co Kildare

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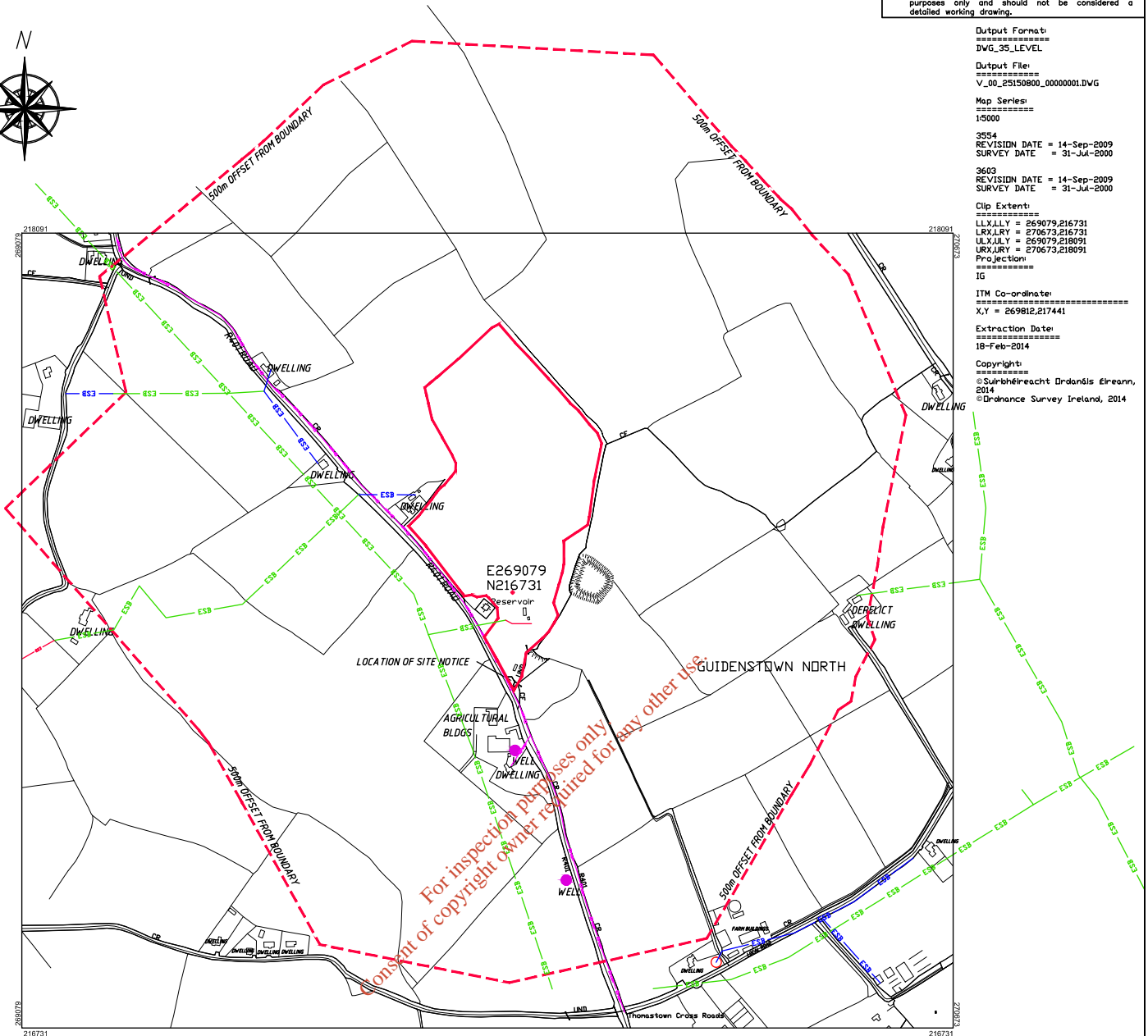
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<sup>1</sup> A1 size only provided to allow for readability of contents

NOTES:  
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Output Format:  
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Output File:  
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SURVEY DATE = 31-Jul-2000  
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LRX,LRJ = 270673,216731  
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Projection:  
===== IG  
ITM Co-ordinate:  
===== X,Y = 269812,217441  
Extraction Date:  
===== 18-Feb-2014  
Copyright:  
===== © Suibhítreacht Ordánais Éireann, 2014  
© Ordnance Survey Ireland, 2014



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# Site Plan

- Restoration Site Boundary incl Area of Overburden Storage
- Overhead Eircom Lines
- ESB COLOUR CODE:
- ESB BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- ESB GREEN - MV(10KV/20KV) OVERHEAD LINES
- ESB BLUE - LV (400V/230V) OVERHEAD LINES
- ESB CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- ESB RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

**WARNING**

**ESB**  
THIS MAP INDICATES THE APPROXIMATE LOCATION OF ESB TRANSMISSION (400KV, 220KV, 110KV, 38KV) AND DISTRIBUTION (20KV, 10KV, 230V/400V) UNDERGROUND CABLES AND OVERHEAD LINES IN THE GENERAL AREA OF THE PROPOSED WORKS. ESB NETWORKS TAKES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE MAP. IT IS THE USER'S RESPONSIBILITY TO INDEPENDENTLY VERIFY THE INFORMATION AND THE LOCATION OF UNDERGROUND CABLES AND OVERHEAD LINES. LOW VOLTAGE (230V/400V) SERVICE CABLES (E.G. HOUSE SERVICES, FACTORY/SHOP SERVICES, PUBLIC LIGHTING LAMP SERVICES, ETC) ARE NOT INCLUDED BUT THEIR PRESENCE SHOULD BE ANTICIPATED. THE DEPTHS OF UNDERGROUND CABLES MUST NEVER BE ASSUMED. ADDITIONAL MORE DETAILED INFORMATION IS AVAILABLE FOR HIGH VOLTAGE TRANSMISSION UNDERGROUND CABLES (38KV, 110KV, 220KV, 400KV) FROM THE LOCAL ESB NETWORKS TRANSMISSION REPRESENTATIVE - SEE ATTACHED LIST FOR CONTACT DETAILS OR CALL 1850 372 757. NO WORK SHOULD BE CARRIED OUT IN THE VICINITY OF 38KV OR HIGHER VOLTAGE UNDERGROUND CABLES WITHOUT PRIOR CONSULTATION WITH ESB NETWORKS. BEFORE ANY MECHANICAL EXCAVATION IS UNDERTAKEN, THE ACTUAL LOCATION OF ALL UNDERGROUND ELECTRICITY CABLES MUST BE ESTABLISHED AND VERIFIED ON THE SITE USING: (A) UP-TO-DATE MAP RECORDS; (B) CABLE LOCATOR EQUIPMENT OPERATED IN BOTH POWER AND RADIO MODES; (C) CAREFUL HAND DIGGING OF TRIAL HOLES USING 'SAFE DIGGING PRACTICE'. REFER ALSO TO 'HSA CODE OF PRACTICE FOR AVOIDING DANGER FROM UNDERGROUND SERVICES'. ESB TAKES NO RESPONSIBILITY FOR AND SHALL BEAR NO LIABILITY, HOWSOEVER ARISING, IN RELATION TO ANY DAMAGE, INJURY/DEATH OR LOSS OF SUPPLY AS A RESULT OF DAMAGE OR INTERFERENCE WITH ITS NETWORKS.

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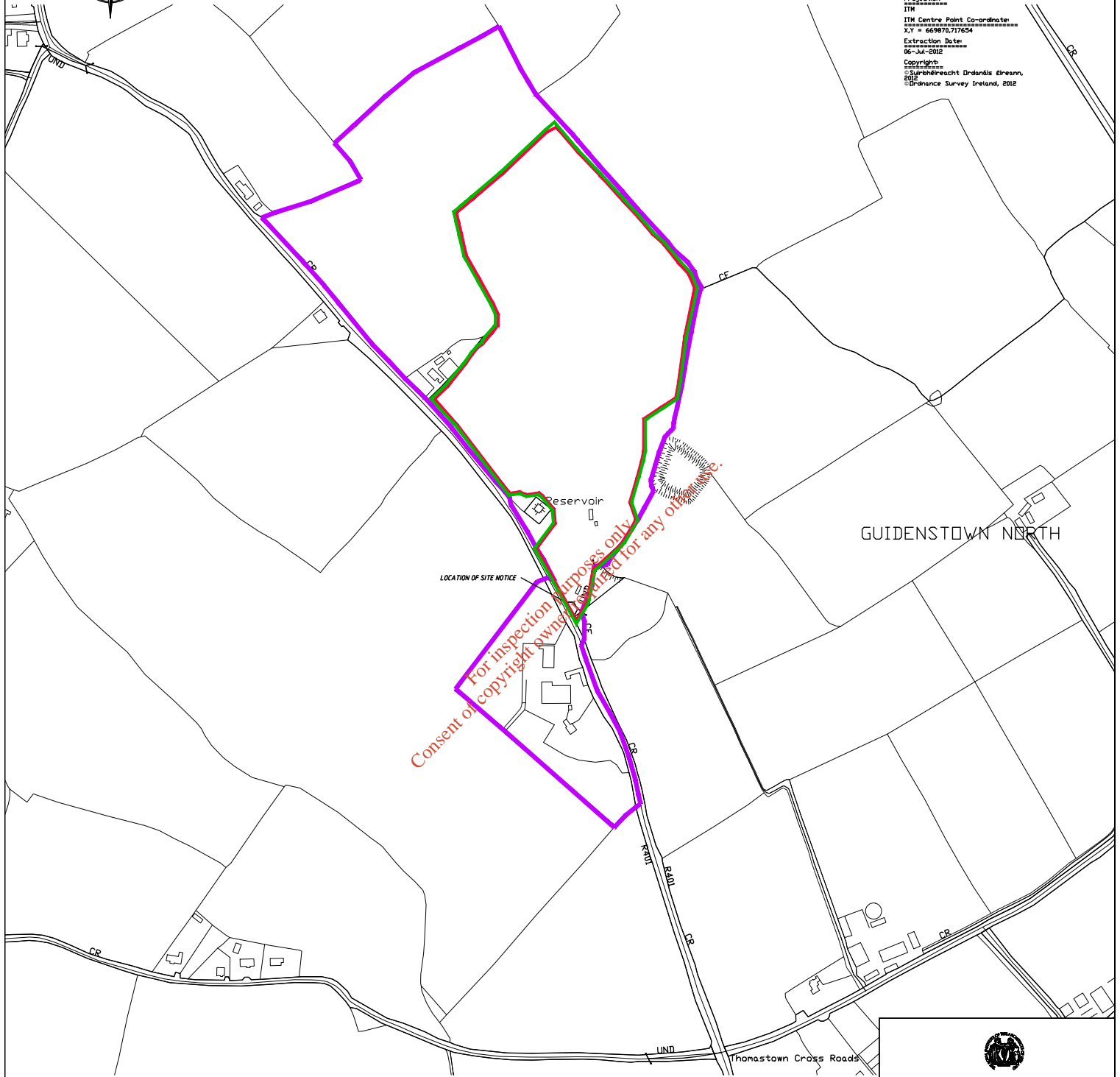
Project: Waste Licence Application for Restoration of existing Gravel Pit at Boherkill, Rathangan, Co. Kildare

Client: Kildare Sand & Gravel Ltd

Drawing title:	Date:	Dr. by
Site Location Map	October 2016	Patricia Ennis
	Dr. No:	Scale:
	151324-WLA-01	1:7500
	Rev:	
	c	

NOTES:  
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LLY,Y = 67052.717193  
URX,Y = 67057.718115  
Projection:  
ITM  
ITM Centre Point Co-ordinate:  
X,Y = 669870.717654  
Extraction Date:  
06-Jul-2012  
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2012  
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# Ownership Plan

- Restoration Site Boundary incl Area of Overburden Storage
- Overall Landholding
- Area leased by Applicant



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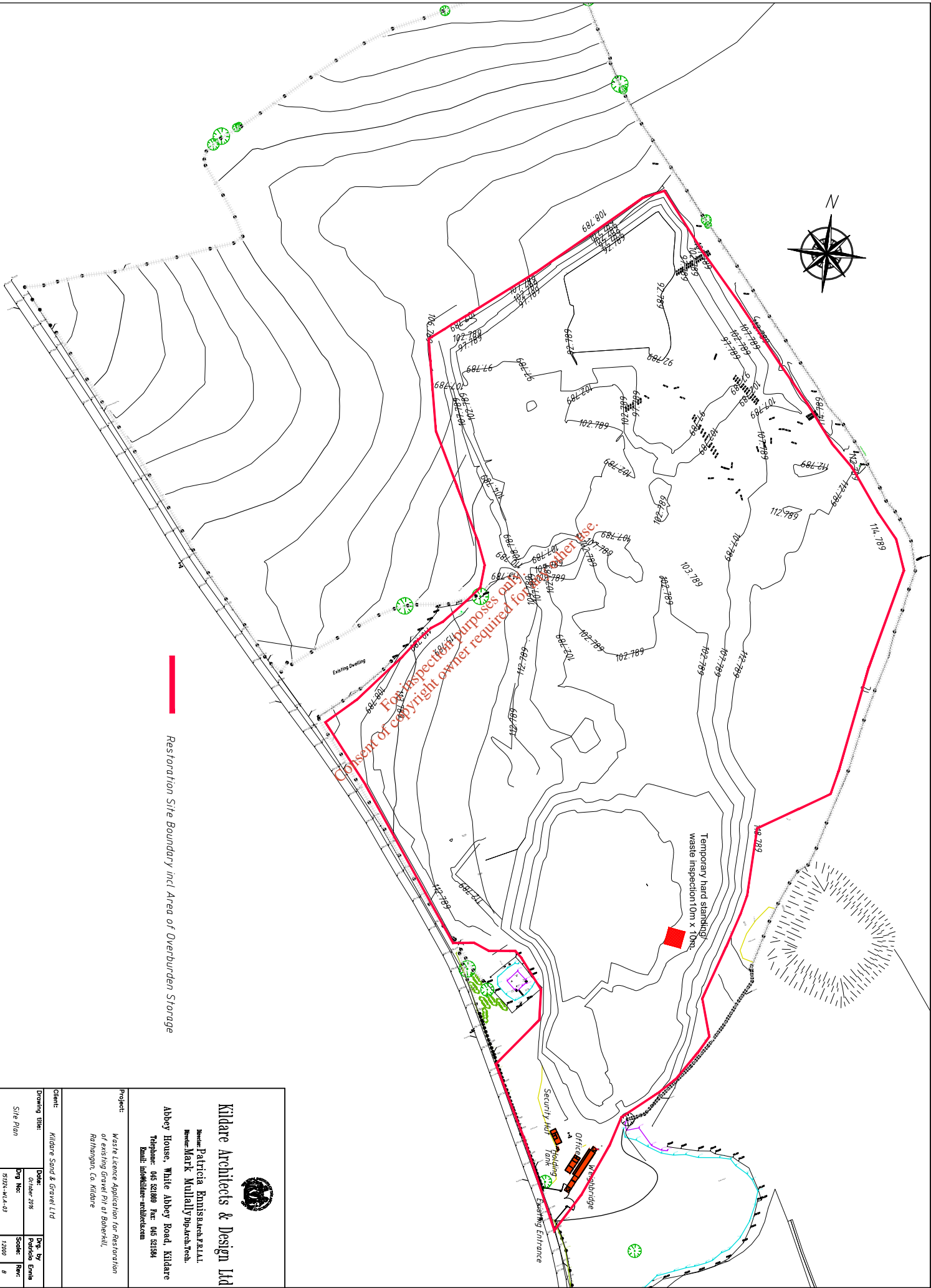
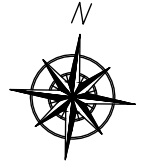
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Project: Waste Licence Application for Restoration of existing Gravel Pit at Boherkill, Rathangan, Co. Kildare

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Client: Kildare Sand & Gravel Ltd

Drawing title: Ownership Plan	Date: October 2016	Drg. by: Patricia Ennis
Drg No: 151324-WLA-02	Scale: 1:5000	Rev: A



Restoration Site Boundary incl Area of Overburden Storage



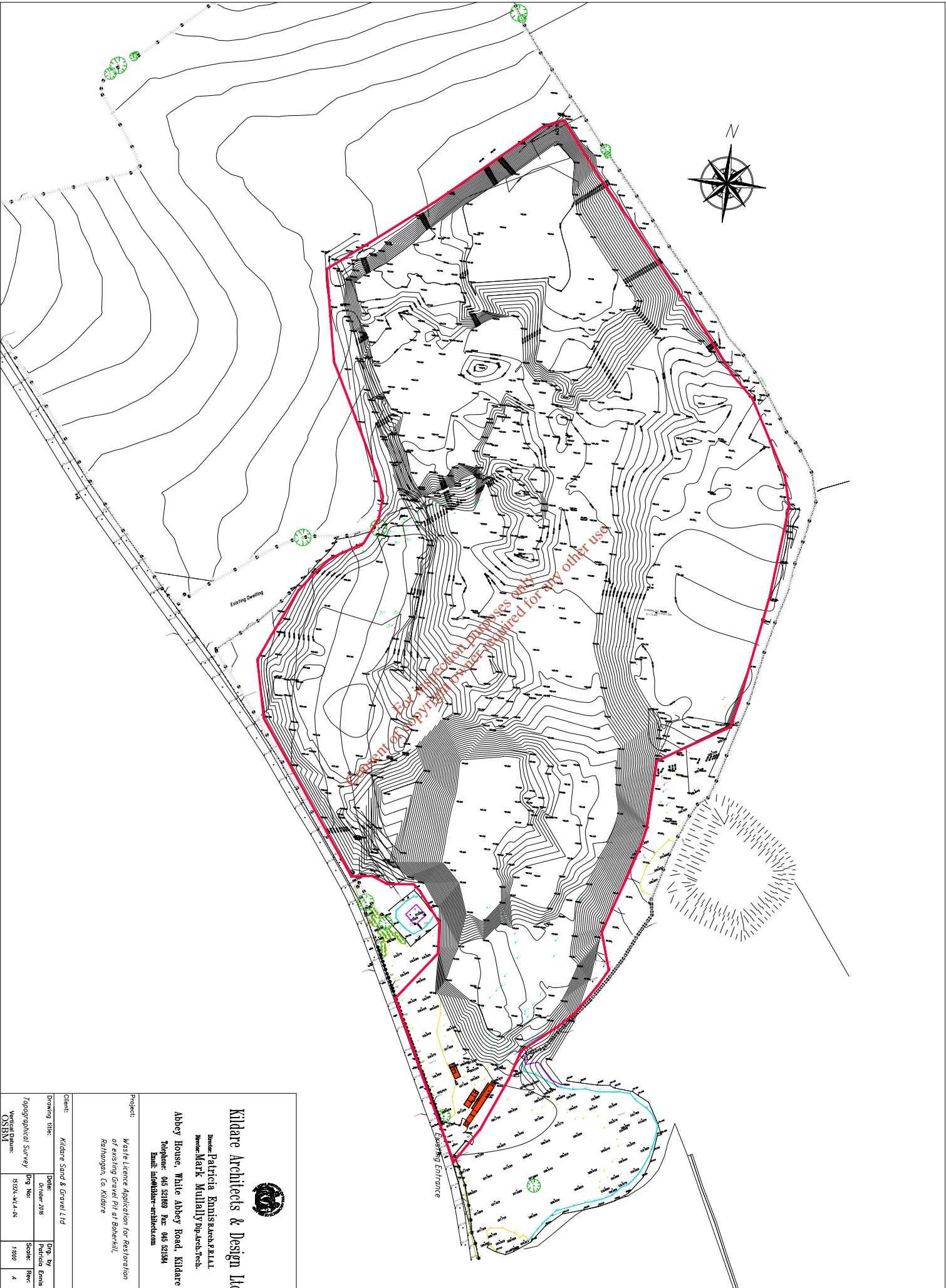
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Project: Waste Licence Application for Restoration  
 of Existing Gravel Pit at Bohenhill,  
 Rathangan, Co. Kildare

Client:	Kildare Sand & Gravel Ltd		
Drawing title:	Date:	Drawn by:	Checked by:
Site Plan	October 2016	Patricia Emswiler	Patricia Emswiler
	Dwg No:	Scale:	Rev:
	5924-W4-03	1:2000	B



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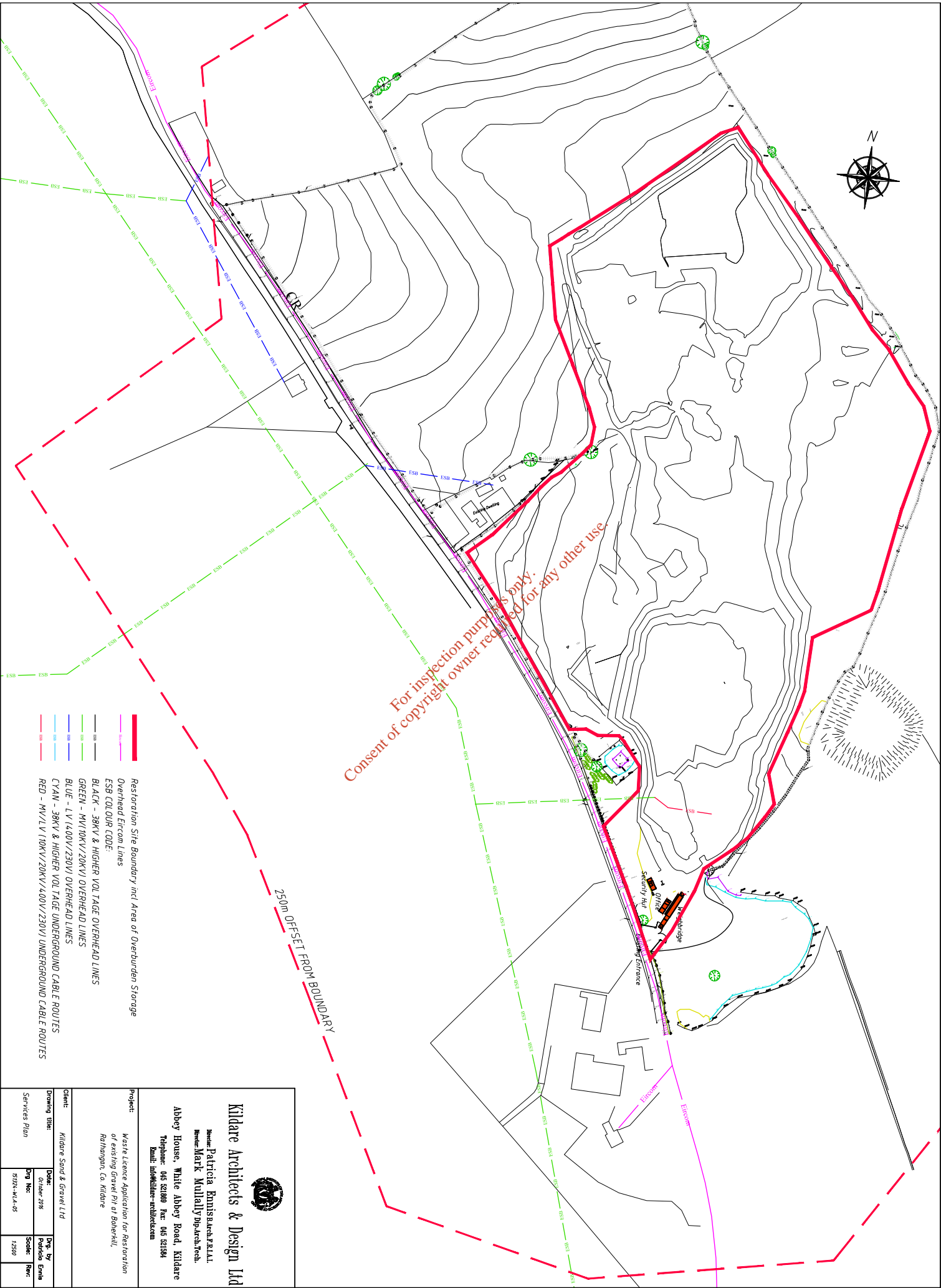
**Project:** Waste Licence Application for restoration of existing gravel pit at Boherkill, Rathangan, Co. Kidare

<b>Client:</b> Kidare Sand & Gravel Ltd	<b>Date:</b> October 2016	<b>Dwg. by:</b> Patricia Emms
<b>Drawing title:</b> Topographical Survey	<b>Dwg. No.:</b> 5292A-W14-04	<b>Scale:</b> 1:1000
<b>Vertical Datum:</b> OSBM		<b>Rev:</b> A






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- Restoration Site Boundary incl Area of Overburden Storage
- Overhead Eircom Lines
- ESB COLOUR CODE:
- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (1,00V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/4,00V/230V) UNDERGROUND CABLE ROUTES

250m OFFSET FROM BOUNDARY



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**Project:** Waste Licence Application for Restoration of Existing Gravel Pit at Bohenhill, Rathangan, Co. Kildare

---

**Client:** Kildare Sand & Gravel Ltd

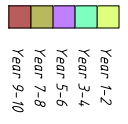
**Drawing title:** Services Plan

<b>Date:</b> October 2016	<b>Prepared by:</b> Patricia Emissaran
<b>Dwg No:</b> 5924-W4-45	<b>Scale:</b> 1:2500

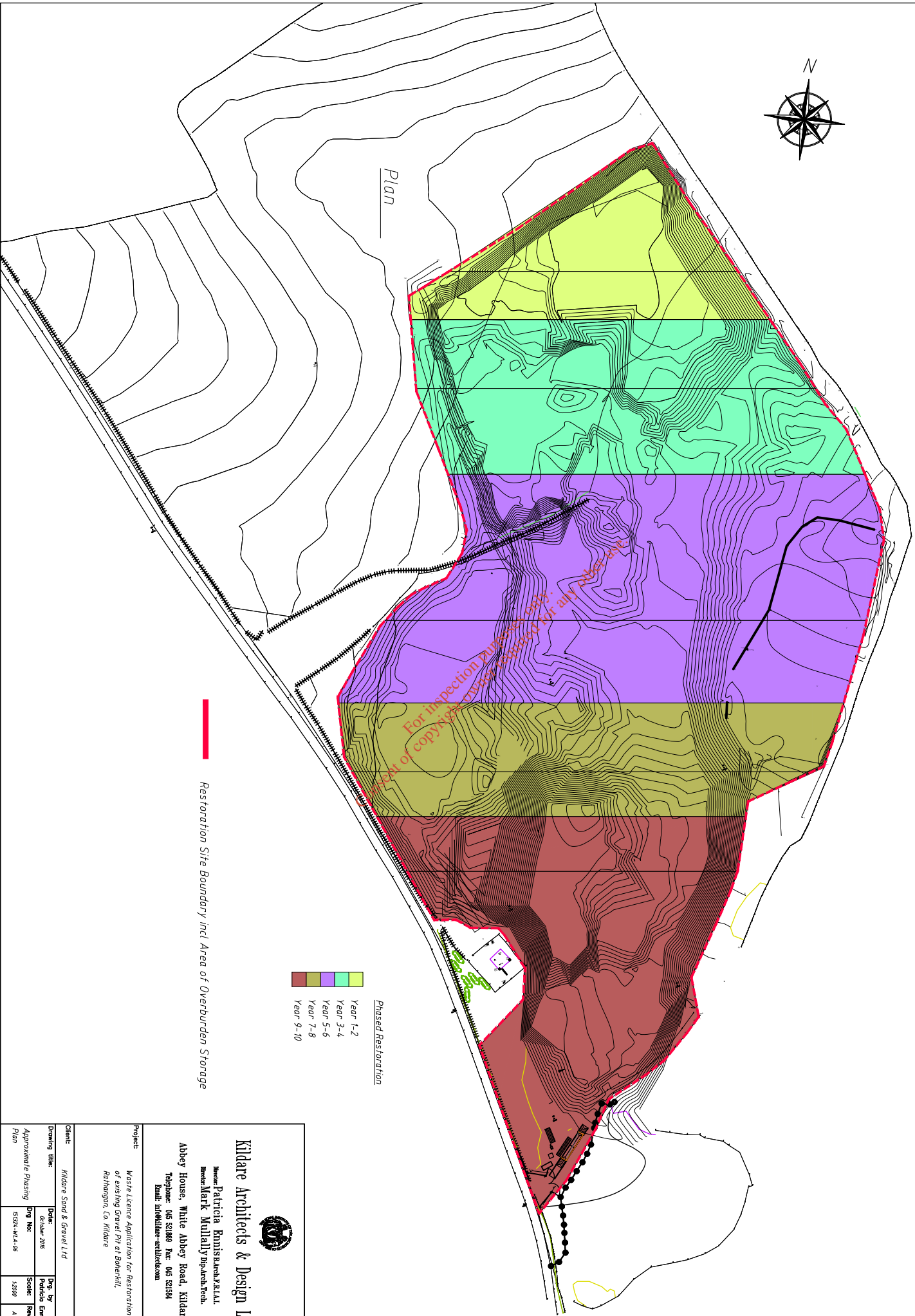



Plan

Restoration Site Boundary incl Area of Overburden Storage



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 Members: Mark Mullanally, Dip. Arch. Tech.

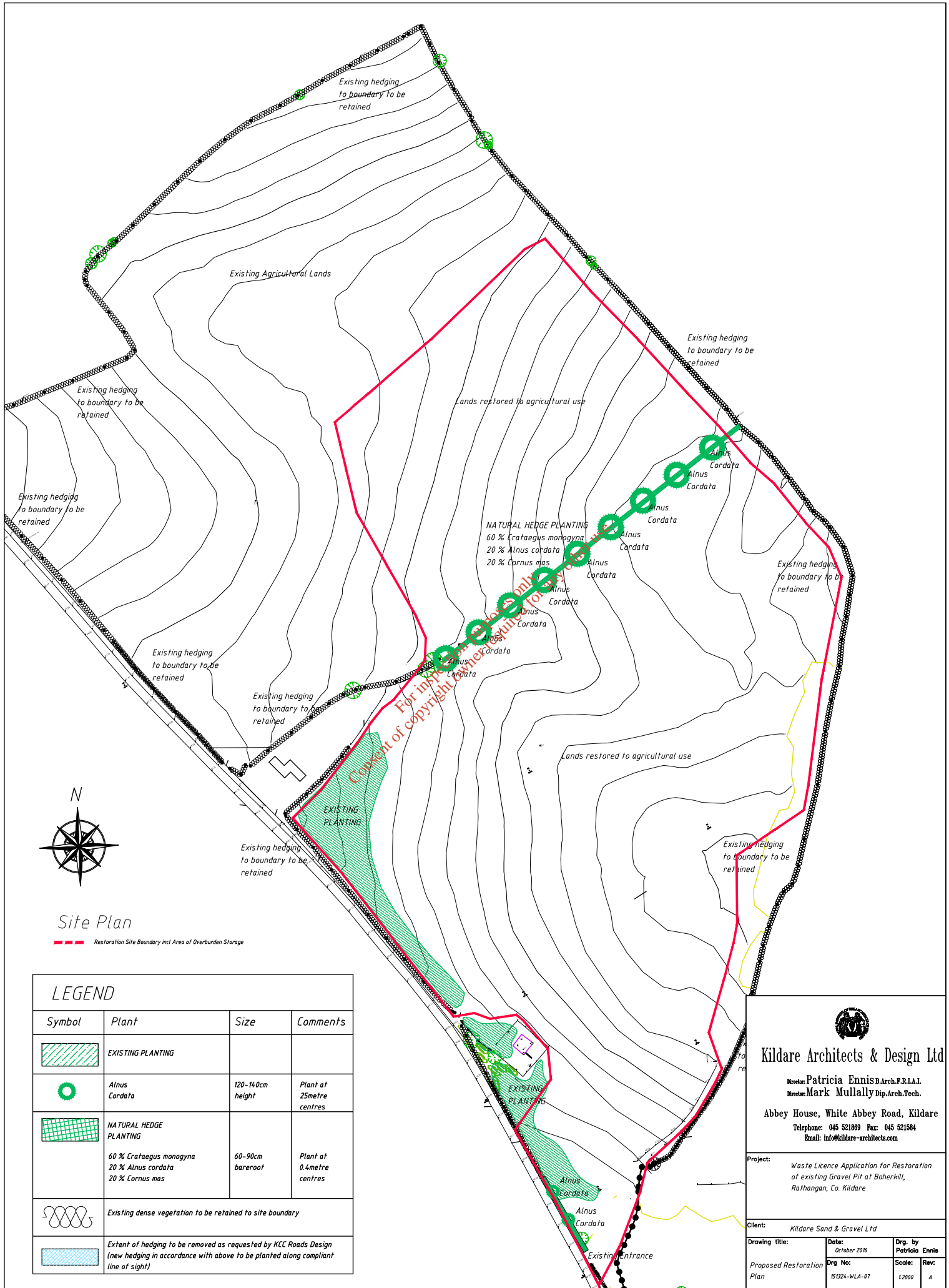
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**Project:** Waste Licence Application for Restoration of existing gravel Pit at Bohenhill, Rahmangan, Co. Kildare

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<b>Client:</b> Kildare Sand & Gravel Ltd	<b>Date:</b> October 2016	<b>Dwg. by:</b> Patricia Eamais
<b>Drawing title:</b> Approximate Phasing Plan	<b>Dwg. No.:</b> 5929-W4-06	<b>Scale:</b> 1:2000
		<b>Rev:</b> A



Site Plan

--- Restoration Site Boundary incl Area of Overburden Storage

LEGEND			
Symbol	Plant	Size	Comments
	EXISTING PLANTING		
	<i>Alnus Cordata</i>	120-140cm height	Plant at 25metre centres
	NATURAL HEDGE PLANTING 60 % <i>Crataegus monogyna</i> 20 % <i>Alnus cordata</i> 20 % <i>Cornus mas</i>	60-90cm bareroot	Plant at 0.4metre centres
	Existing dense vegetation to be retained to site boundary		
	Extent of hedging to be removed as requested by KCC Roads Design (new hedging in accordance with above to be planted along compliant line of sight)		



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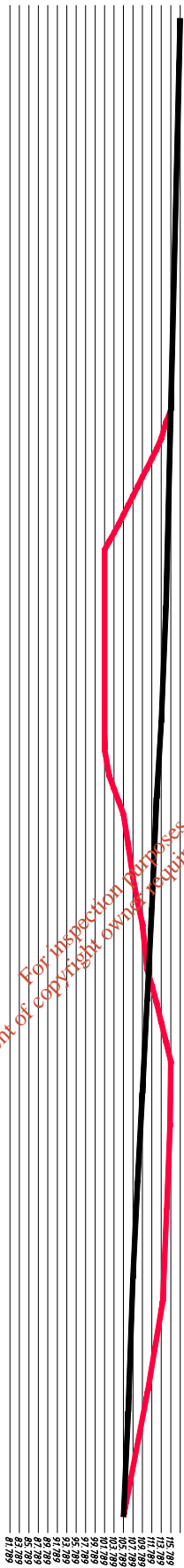
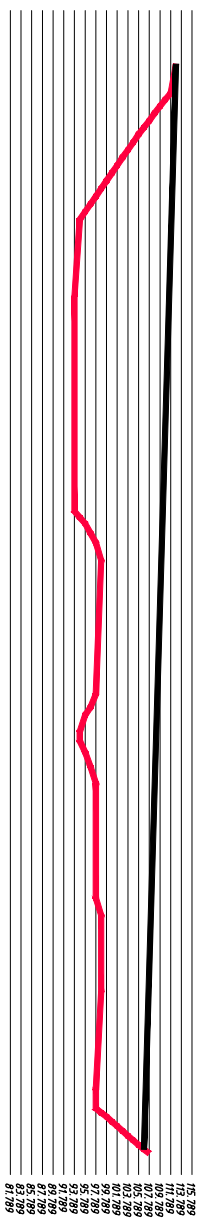
Project: Waste Licence Application for Restoration of existing Gravel Pit at Boherhill, Rathangan, Co. Kildare

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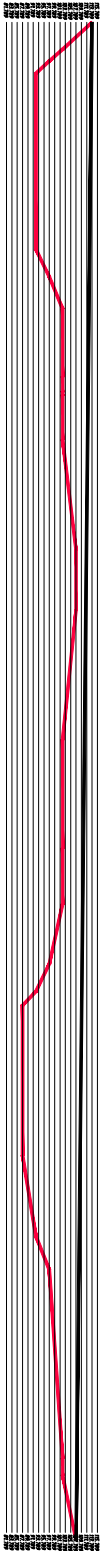
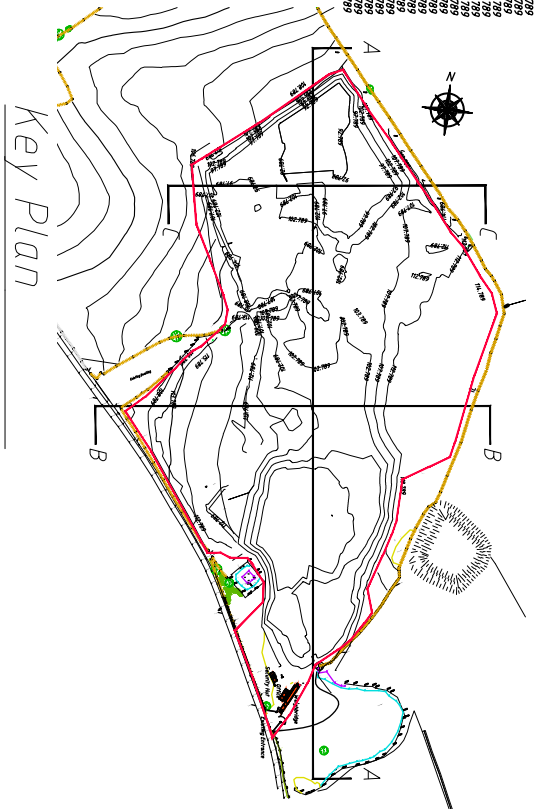
Client: Kildare Sand & Gravel Ltd

Drawing title: Proposed Restoration Plan	Date: October 2016	Dr. by: Patricia Ennis
Dr. No: 151324-WLA-07	Scale: 1:2000	Rev: A





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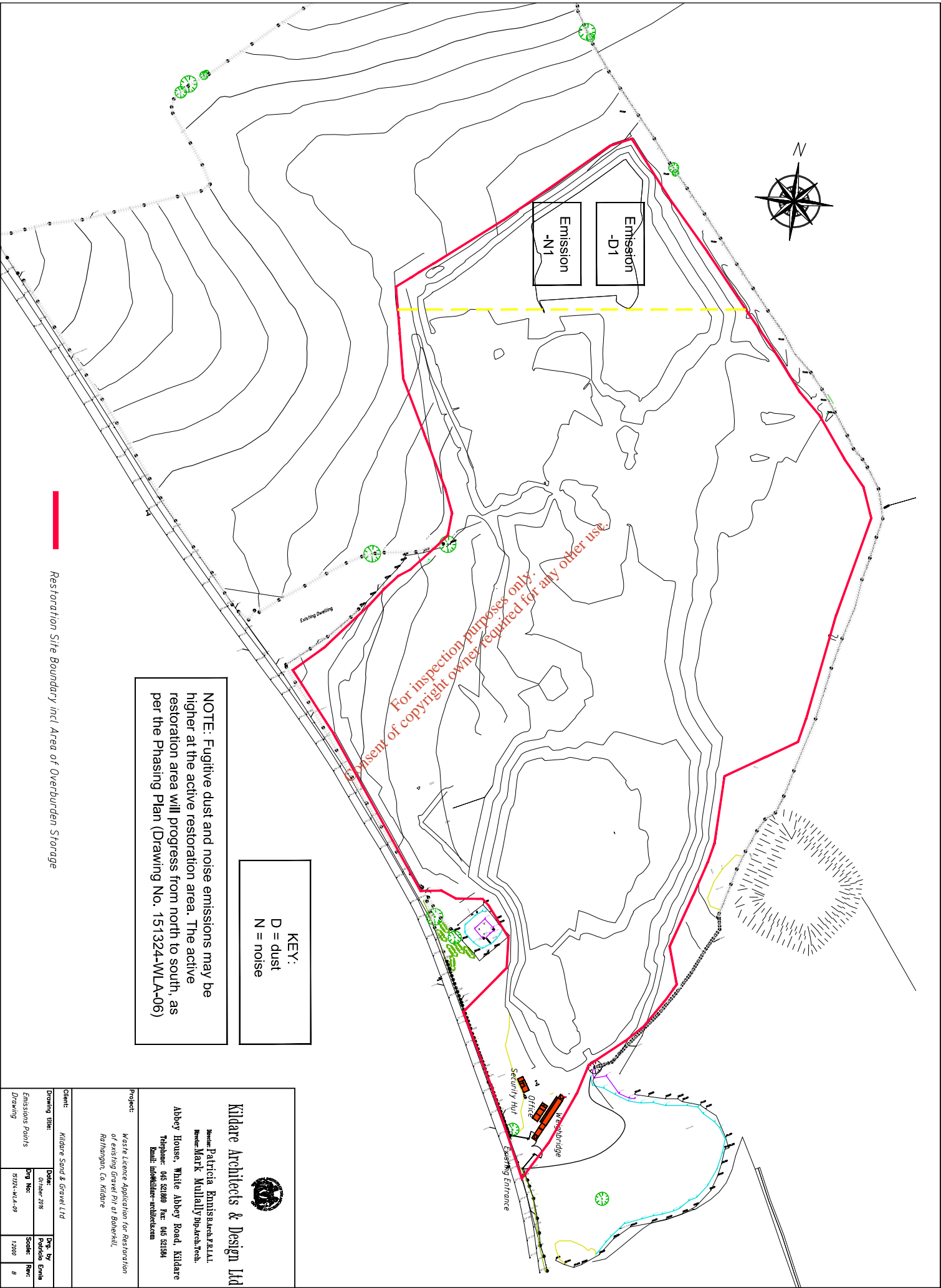
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of Existing Gravel Pit at Bohenhill,  
Rathangan, Co. Kildare

Client: Kildare Sand & Gravel Ltd

Drawing title:	Date:	Drawn by:	Scale:
Cross Sections	October 2016	Patricia Emiss	1:2000
	Dwg No:	Scale:	Rev:
	5924-W4-48	1:2000	A

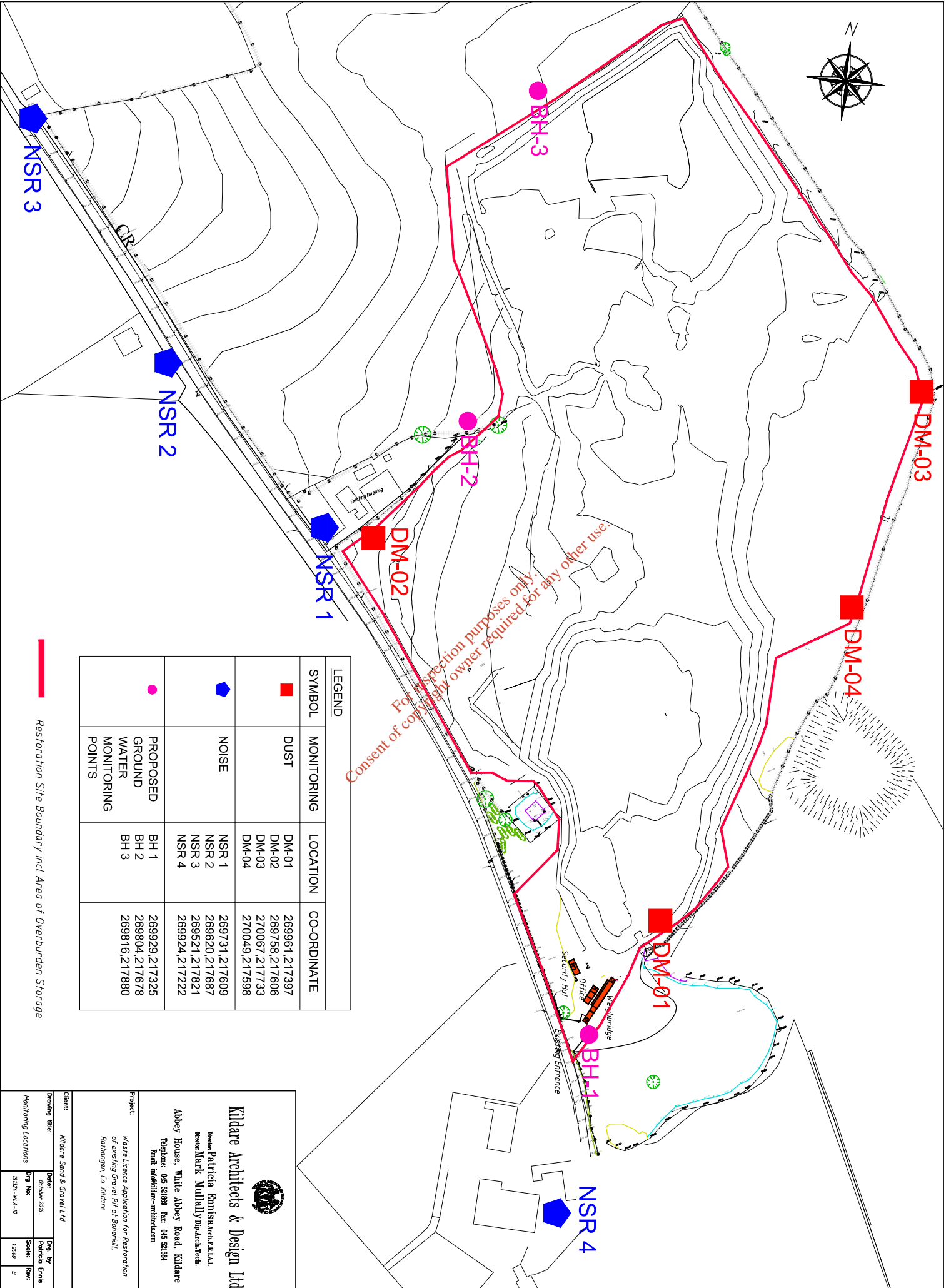


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<b>Client:</b> Kildare Sand & Gravel Ltd	<b>Drawn By:</b> Patricia Emiss
<b>Drawing Title:</b> Emissions Points	<b>Date:</b> October 2016
<b>DWG No.:</b> 50924-WLA-09	<b>Scale:</b> 1:2000
<b>Drawing:</b>	<b>Rev:</b> 0



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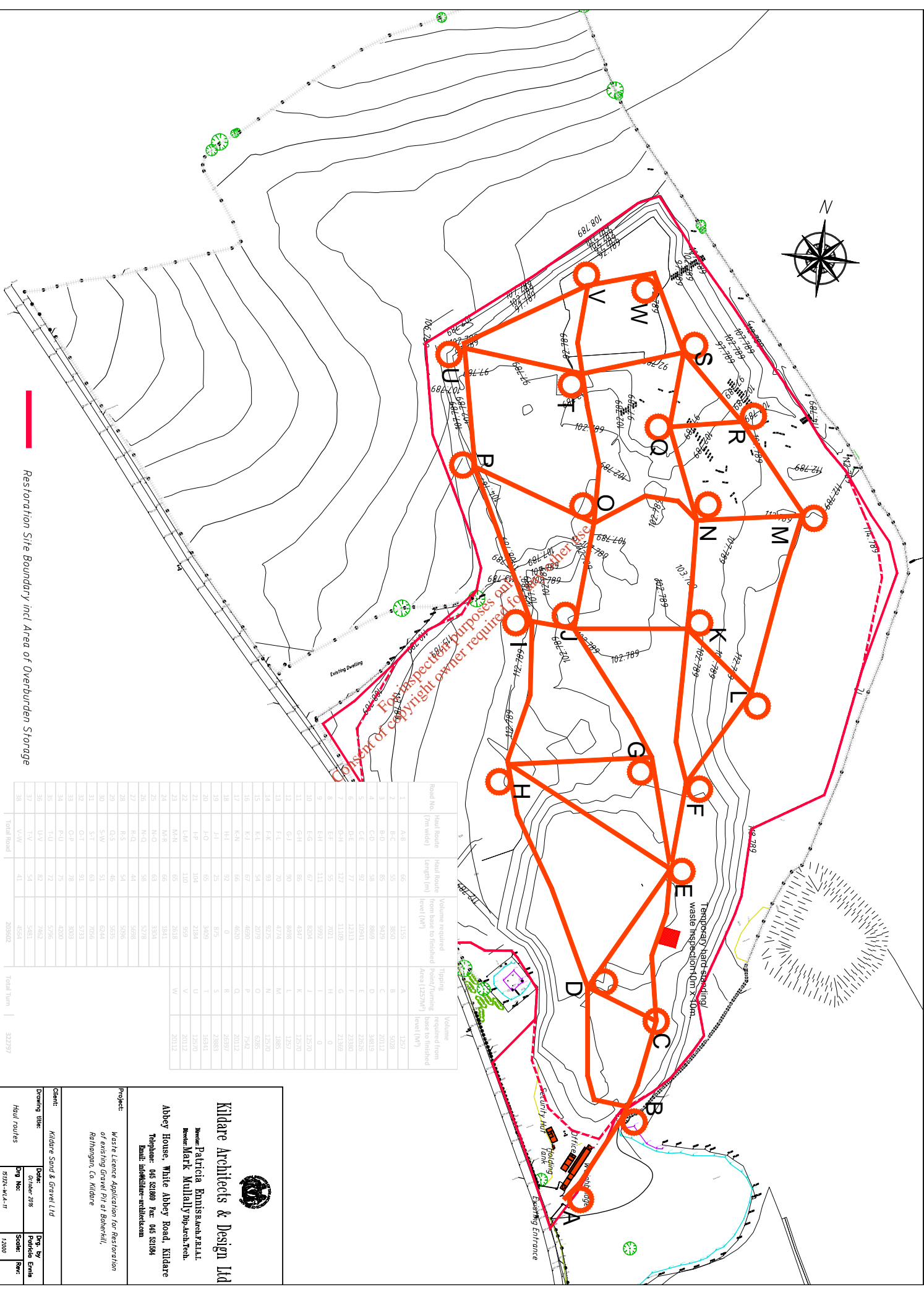
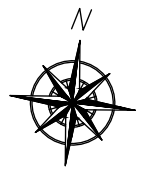
LEGEND			
SYMBOL	MONITORING	LOCATION	CO-ORDINATE
■	DUST	DM-01 DM-02 DM-03 DM-04	269961,217397 269758,217606 270067,217733 270049,217598
◆	NOISE	NSR 1 NSR 2 NSR 3 NSR 4	269731,217609 269620,217687 269621,217821 269924,217222
●	PROPOSED GROUND WATER MONITORING POINTS	BH 1 BH 2 BH 3	269929,217325 269804,217678 269816,217880

— Restoration Site Boundary incl. Area of Overburden Storage

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Project: Waste Licence Application for Restoration of Existing Gravel Pit at Bohernabreena, Co. Kildare

Client: Kildare Sand & Gravel Ltd	Date: October 2016	Prepared by: Patricia Eamaisaran
Drawing title: Monitoring Locations	Dwg No: 5924-W4-10	Scale: 1:2000
		Rev: 0



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Route No.	Haul Route (m solid)	Haul Route length (m)	Volume required from base to finished level (M <sup>3</sup> )	Tipping Point/Turning Area (2527M <sup>2</sup> )	Volume required from base to finished level (M <sup>3</sup> )
1	A-B	66	1155	A	1267
2	B-C	55	360	B	508
3	B-D	95	949	C	2012
4	C-D	38	869	D	3483
5	C-E	92	1094	E	2206
6	D-E	17	1234	F	1330
7	D-H	127	1150	G	1180
8	E-H	35	702	H	0
9	E-I	111	292	I	0
10	E-G	67	824	J	1270
11	G-I	90	487	K	1270
12	G-H	90	488	L	1270
13	F-L	70	472	M	185
14	F-K	93	925	N	1270
15	K-L	54	209	O	625
16	K-I	67	460	P	1270
17	K-N	66	4620	Q	2012
18	H-I	92	0	R	2697
19	J-I	25	875	S	2883
20	I-O	55	369	T	1641
21	H-P	104	2184	U	1270
22	L-M	110	959	V	2012
23	M-N	65	1841	W	2012
24	M-K	66	1841		
25	M-Q	63	1304		
26	M-O	58	1278		
27	K-Q	41	398		
28	K-S	51	305		
29	O-S	46	365		
30	S-W	51	624		
31	S-V	63	205		
32	O-T	91	973		
33	O-P	78	303		
34	P-U	75	420		
35	P-V	72	576		
36	U-V	82	782		
37	T-V	54	581		
38	V-W	41	464		
Total Road			20362		
Total Turn				32797	



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**Project:** Waste Licence Application for Restoration of Existing Gravel Pit at Bohenhill, Rathangan, Co. Kildare

**Client:** Kildare Sand & Gravel Ltd

**Drawing title:** Haul routes

**Date:** October 2016

**Drawn by:** Patricia Emile

**Scale:** 1:2000

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