



Drumlins 110 kV Substation

TRIAL PIT LOGS

5870-JOD-XX-C-RP-0001

September 2020



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1 INTRODUCTION1

Appendix A Trial Pit Location Drawing

Appendix B Trial Pit Logs

Appendix C Photographs

1 INTRODUCTION

A series of 6 No. Trial Pits was carried out at the location of the proposed Drumlins 110 kV Substation in the townland of Killyleg, Co. Monaghan.

These trial pits were witnessed by John McElvaney on behalf of Jennings O'Donovan and Partners Ltd.

This report provided the details of the ground encountered in each trial pit.

The weather on the day of the site investigation field work was dry.

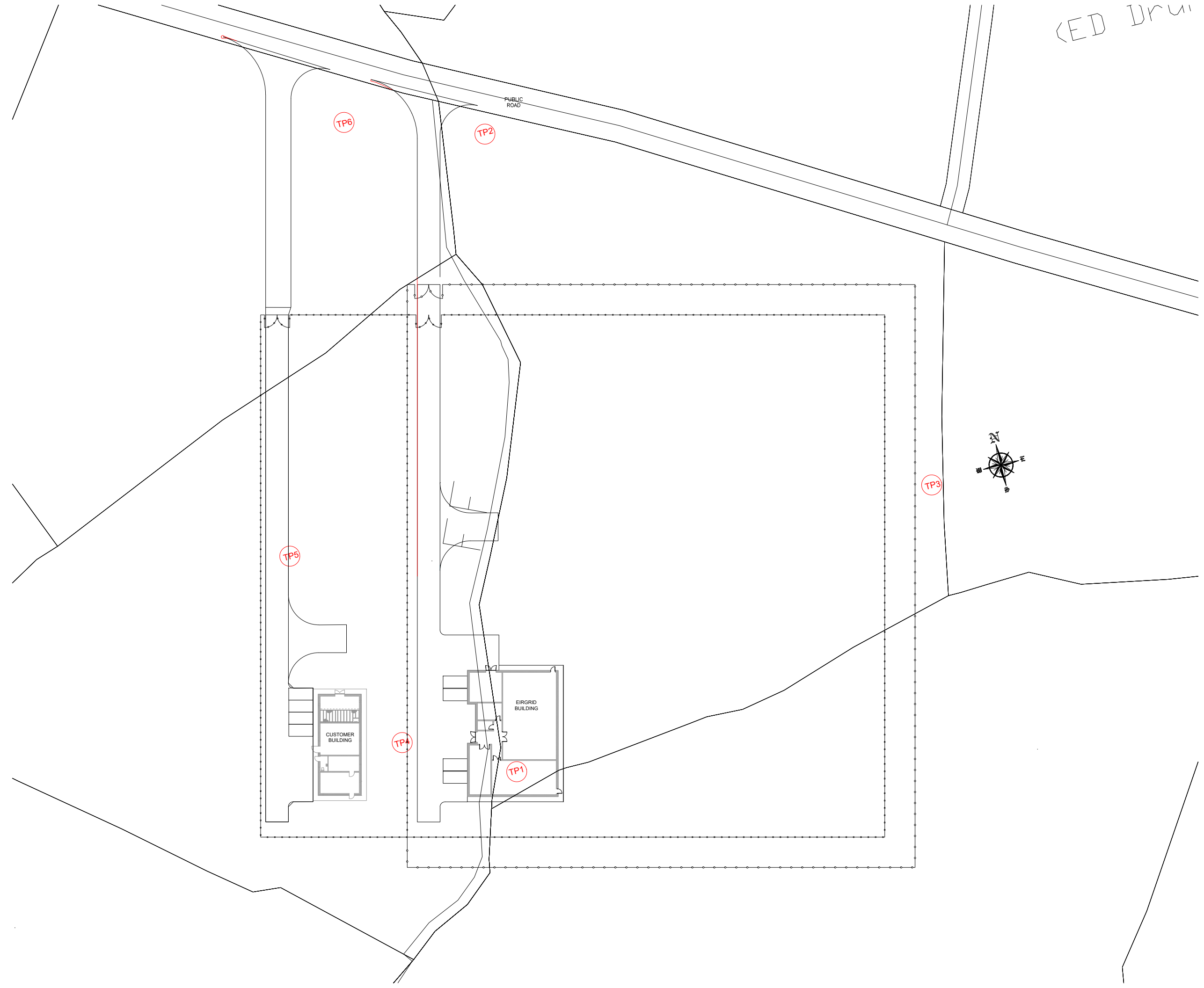
APPENDIX A

TRIAL PIT LOCATION DRAWING

LED Draw

- NOTES:**
- 1 FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 - 2 ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
 - 3 ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
 - 4 THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.

Trial Pit No.	Easting	Northing
TPD1	655349.533	819859.368
TPD2	655374.108	819883.284
TPD3	655442.982	819894.451
TPD4	655328.943	819870.479
TPD5	655316.347	819911.659
TPD6	655347.615	819992.315



rev.	modifications	by	date
P01.1	FIRST REVIEW ISSUE	S.K	09.09.20

Client **GALETECH ENERGY DEVELOPMENTS LTD.**

Project **DRUMLINS PARK 110kV SUBSTATION**

Stage **PLANNING**

Title **SITE INVESTIGATIONS**

Scales **1:350 (A1)**

Surveyed	Prepared By	Checked	Date
J.McE	S.K	J.McE	SEP 2020

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Job No.	Drawing no.	Revision
5870	DP-JOD-SS-XX-DR-C-1004	P01.1

APPENDIX B

TRIAL PIT LOGS

TRIAL PIT LOG			
Project Number:	5870	Trial Pit Number	TP01
Project Name:	Drumlins 110 kV Substation	Logged By:	John McElvaney
Client	Galetech Energy Services	Date:	9 th July 2020
Easting: 655,349.533		Northing: 819,859.368	Elevation: + 99.012 m
Depth (metres below ground level)	Description		
0 – 0.4	Topsoil		
0.4 – 0.7	Soft to Firm, brown CLAY		
0.7 – 2.6	Very soft, very wet, sandy gravelly SILT		
2.6	End of trial pit		

TRIAL PIT LOG			
Project Number:	5870	Trial Pit Number	TP02
Project Name:	Drumlins 110 kV Substation	Logged By:	John McElvaney
Client	Galetech Energy Services	Date:	9 th July 2020
Easting: 655,374.109		Northing: 819,983.284	Elevation: + 101.490 m
Depth (metres below ground level)	Description		
0 – 0.2	Topsoil		
0.2 – 0.6	Soft to Firm, light brown, gravelly CLAY		
0.6 – 1.0	Firm, orangey brown, gravelly CLAY		
1.0 – 2.6	Firm, brown, gravelly CLAY with cobbles		
2.6	End of trial pit		

TRIAL PIT LOG			
Project Number:	5870	Trial Pit Number	TP03
Project Name:	Drumlins 110 kV Substation	Logged By:	John McElvaney
Client	Galetech Energy Services	Date:	9 th July 2020
Easting: 655,442.982		Northing: 819,894.451	Elevation: + 100.000 m
Depth (metres below ground level)	Description		
0 – 0.2	Topsoil		
0.2 – 0.6	Soft, grey, sandy SILT		
0.6 – 0.9	Soft to firm, light brown, gravelly CLAY		
0.9 – 1.3	Firm, orangey brown, gravelly CLAY with cobbles		
1.3 – 2.2	Soft to firm, grey, sandy CLAY		
2.2	End of trial pit		

TRIAL PIT LOG			
Project Number:	5870	Trial Pit Number	TP04
Project Name:	Drumlins 110 kV Substation	Logged By:	John McElvaney
Client	Galetech Energy Services	Date:	9 th July 2020
Easting: 655,328.943		Northing: 819,870.479	Elevation: + 100.100 m
Depth (metres below ground level)	Description		
0 – 0.3	Topsoil		
0.3 – 0.7	Soft to Firm, light brown CLAY		
0.7 – 1.9	Firm, brown, gravelly CLAY		
1.9	End of trial pit (moving into soft, blue gravelly CLAY)		

TRIAL PIT LOG			
Project Number:	5870	Trial Pit Number	TP05
Project Name:	Drumlins 110 kV Substation	Logged By:	John McElvaney
Client	Galetech Energy Services	Date:	9 th July 2020
Easting: 655,316.347		Northing: 819,911.659	Elevation: + 99.484 m
Depth (metres below ground level)	Description		
0 – 0.4	Topsoil		
0.4 – 1.5	Soft, blue gravelly CLAY		
1.5 – 2.0	Very soft, wet, sandy gravelly SILT		
2.0	End of trial pit – water at base		

TRIAL PIT LOG			
Project Number:	5870	Trial Pit Number	TP06
Project Name:	Drumlins 110 kV Substation	Logged By:	John McElvaney
Client	Galetech Energy Services	Date:	9 th July 2020
Easting: 655,347.615		Northing: 819,992.315	Elevation: + 101.995 m
Depth (metres below ground level)	Description		
0 – 0.3	Topsoil		
0.3 – 0.7	Soft, light brown, gravelly CLAY		
0.7 – 1.0	Soft to firm, dark brown, gravelly CLAY		
1.0 – 2.2	Firm, dark brown, gravelly CLAY		
2.2	End of trial pit		

APPENDIX C
PHOTOGRAPHS



Photo No. 1 – Trial Pit 1 Arrisings



Photo No. 2 – Trial Pit 2



Photo No. 3 – Trial Pit 2



Photo No. 4 – Trial Pit 2 Arrisings



Photo No. 5 – Trial Pit 3



Photo No. 6 – Trial Pit 3 Arrisings



Photo No. 7 – Trial Pit 4



Photo No. 8 – Trial Pit 4



Photo No. 9 – Trial Pit 5



Photo No. 10 – Trial Pit 5



Photo No. 11 – Trial Pit 5 Arrisings



Photo No. 12 – Trial Pit 6



Photo No. 13 – Trial Pit 6



Photo No. 14 – Trial Pit 6 Arrisings
