

APPENDIX L-1

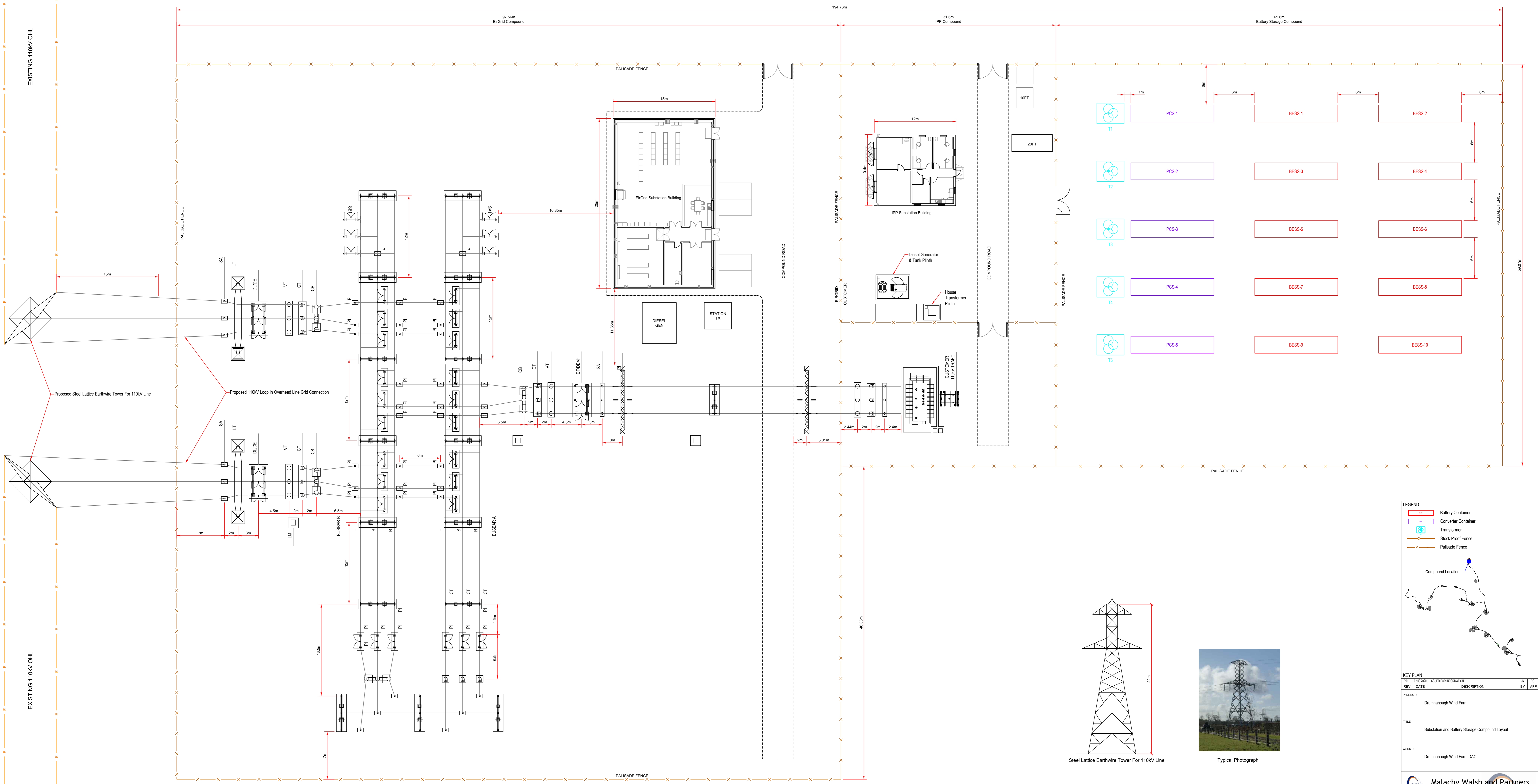
Alternative Grid Connection Drawings

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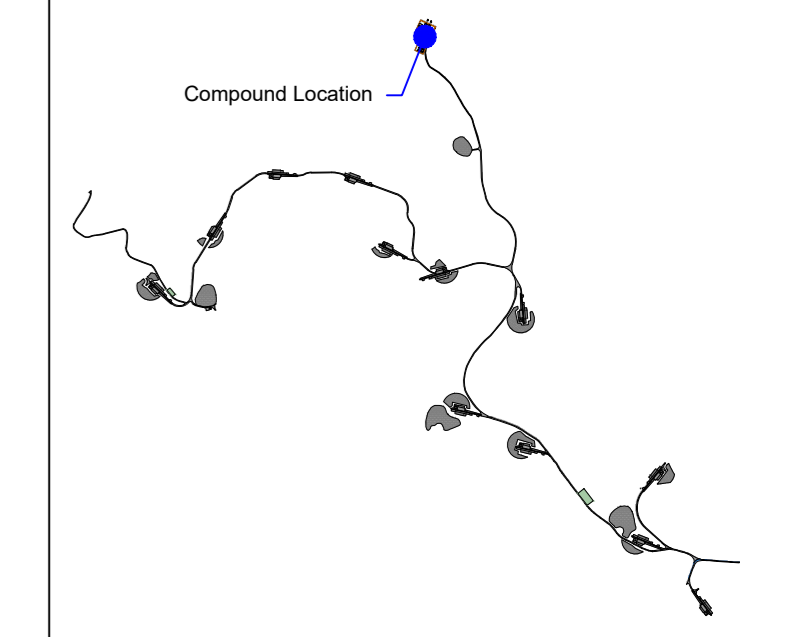
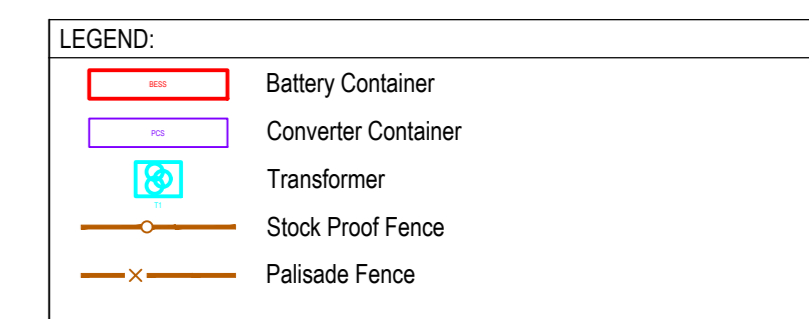
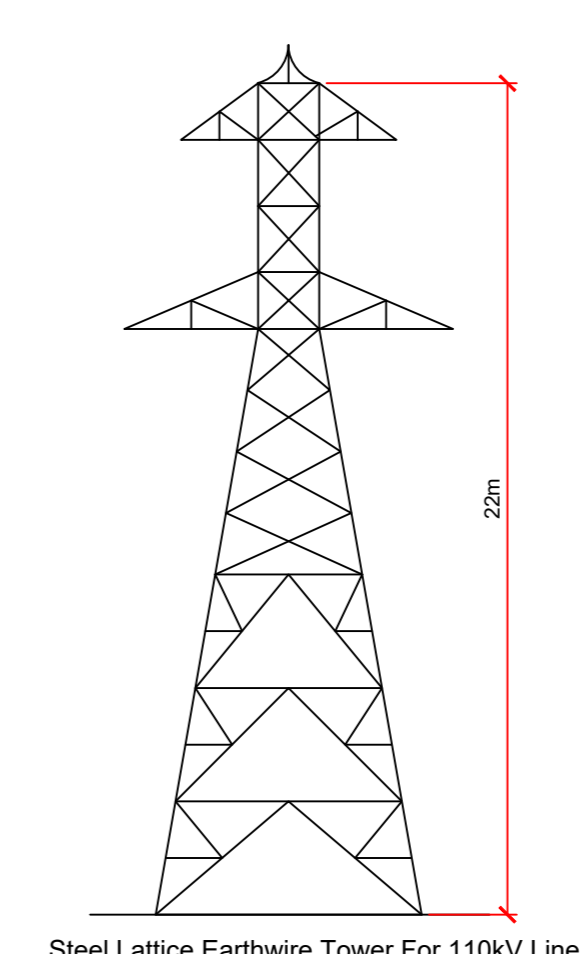
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REFERENCE DRAWINGS:
DRAWING No. 19715-MWP-00-00-DR-C-5005
Proposed Site Layout - Master Sheet



EXISTING 110kV OHL

EXISTING 110kV OHL



REV	DATE	ISSUED FOR INFORMATION	DESCRIPTION	X	PC

PROJECT: Drumahough Wind Farm
BY: APP

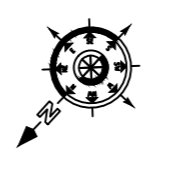
TITLE: Substation and Battery Storage Compound Layout

CLIENT: Drumahough Wind Farm DAC

Malachy Walsh and Partners
Engineering and Environmental Consultants
Cork | Tralee | London | Belfast

Rien Point, Binnerville, Tralee, Co. Kerry, V52 X2TK
Tel: +353 (0) 52 713744
Fax: +353 (0) 52 713688
Email: info@malachywalsh.ie
Web: www.mw.ie

DRAWN: JK	CHECKED: PC	APPROVED: PC
DATE: May 2020	SCALE @ REF: 1:200	DRAWING STATUS: S2
PROJECT NUMBER: 19715	DRAWING NUMBER: 19715-MWP-00-00-SK-C-0401	

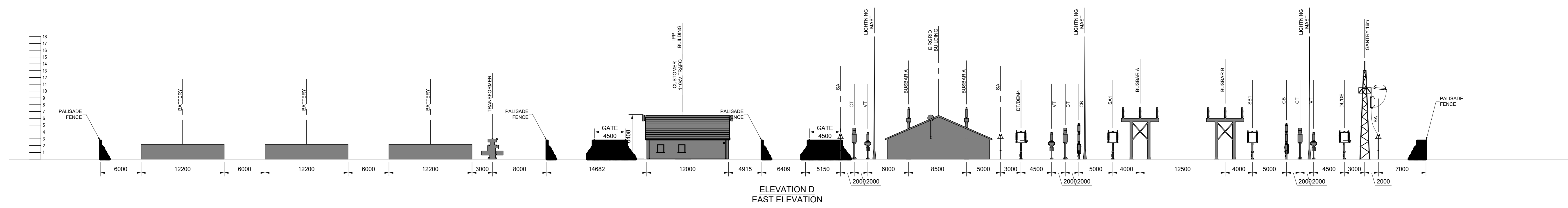
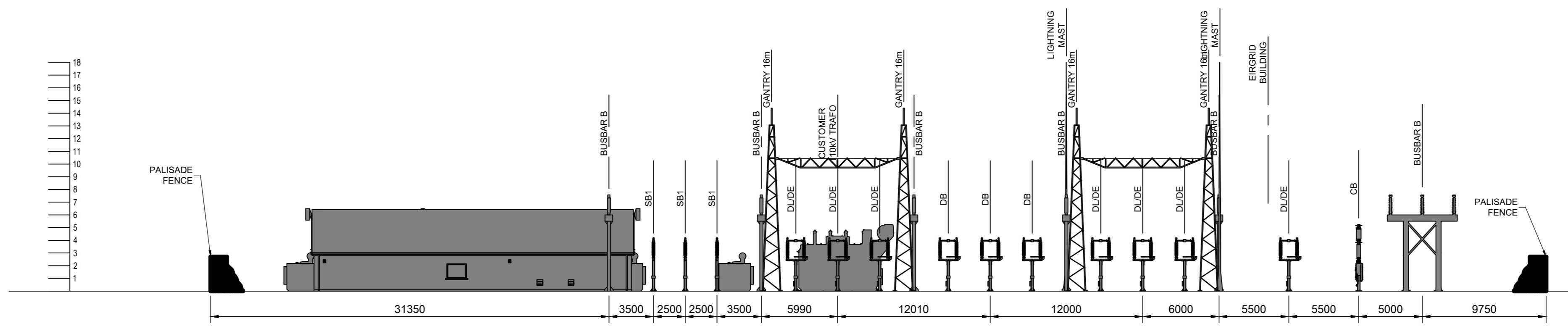
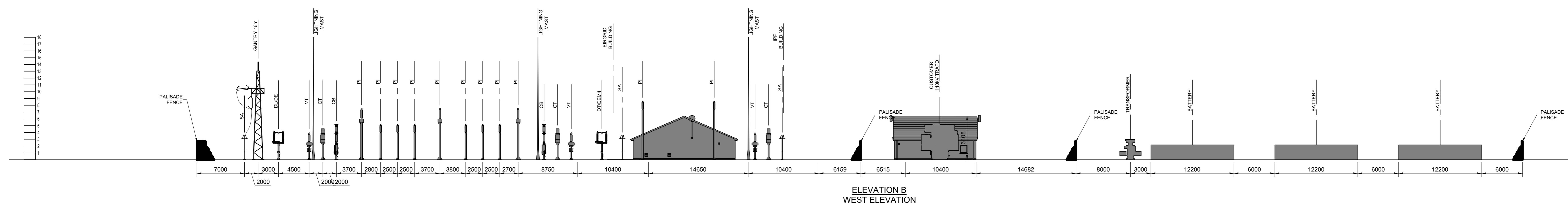
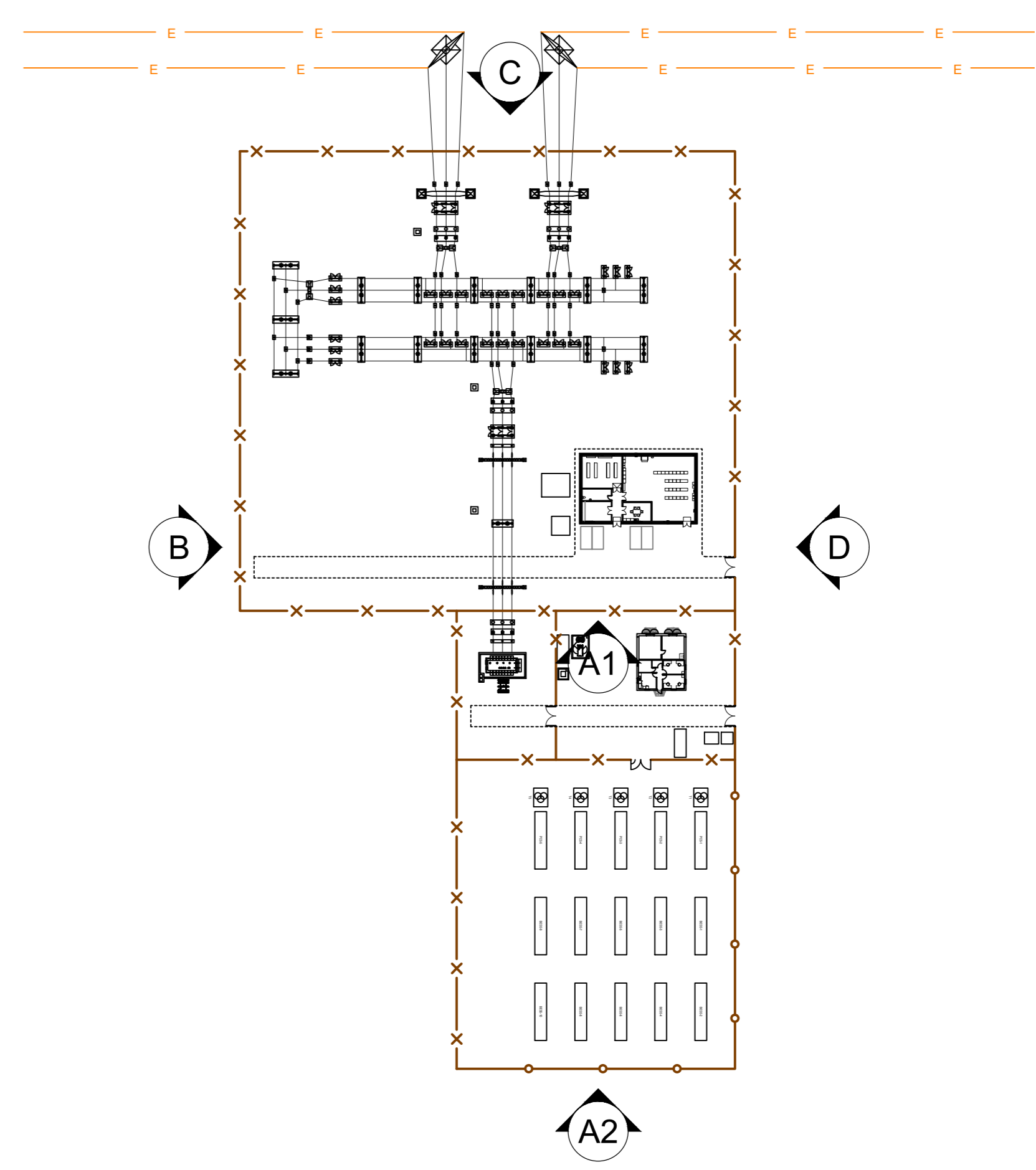
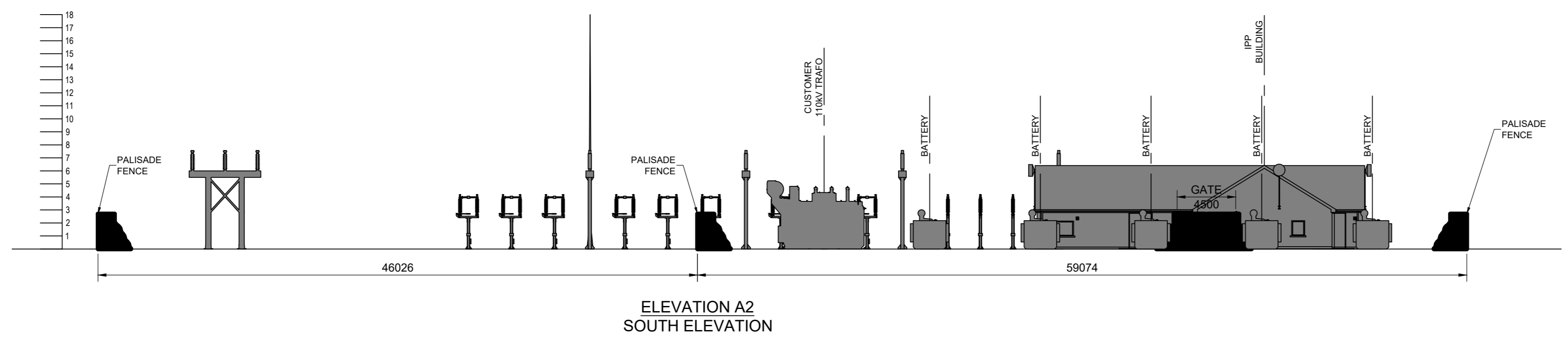
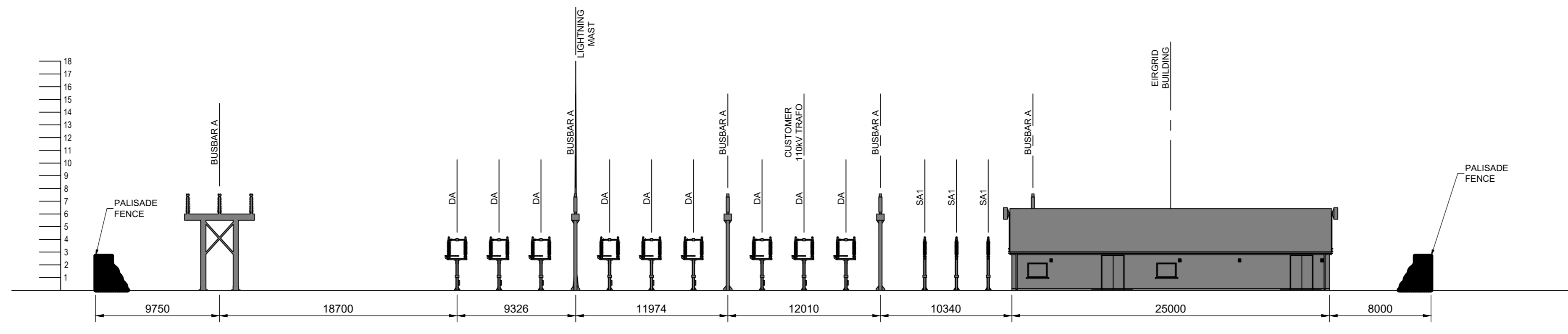


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REFERENCE DRAWINGS:

DRAWING No.	19715-MWP-00-00-DR-C-0005	Proposed Site Layout - Master Sheet
DRAWING No.	19715-MWP-00-00-SK-C-0401	Substation Compound Layout



REV	DATE	DESCRIPTION	X	PC
PROJECT: Drumahough Wind Farm				
TITLE: Substation and Battery Storage Compound Elevations				
CLIENT: Drumahough Wind Farm DAC				
<p>Malachy Walsh and Partners Engineering and Environmental Consultants Cork Tralee London</p> <p> Ryan Point, Binnerville, Tralee, Co. Kerry, V92 X2TK Tel: +353 (0) 66 712344 Fax: +353 (0) 66 712346 Email: info@malachywalsh.com Web: www.mwp.ie </p>				
DRAWN: JK	CHECKED: PC	APPROVED: PC		
DATE: May 2020	SCALE @ REF: 1:250			
PROJECT NUMBER: 19715	DRAWING STATUS: S2			
DRAWING NUMBER: 19715-MWP-00-00-SK-C-0402	P01			

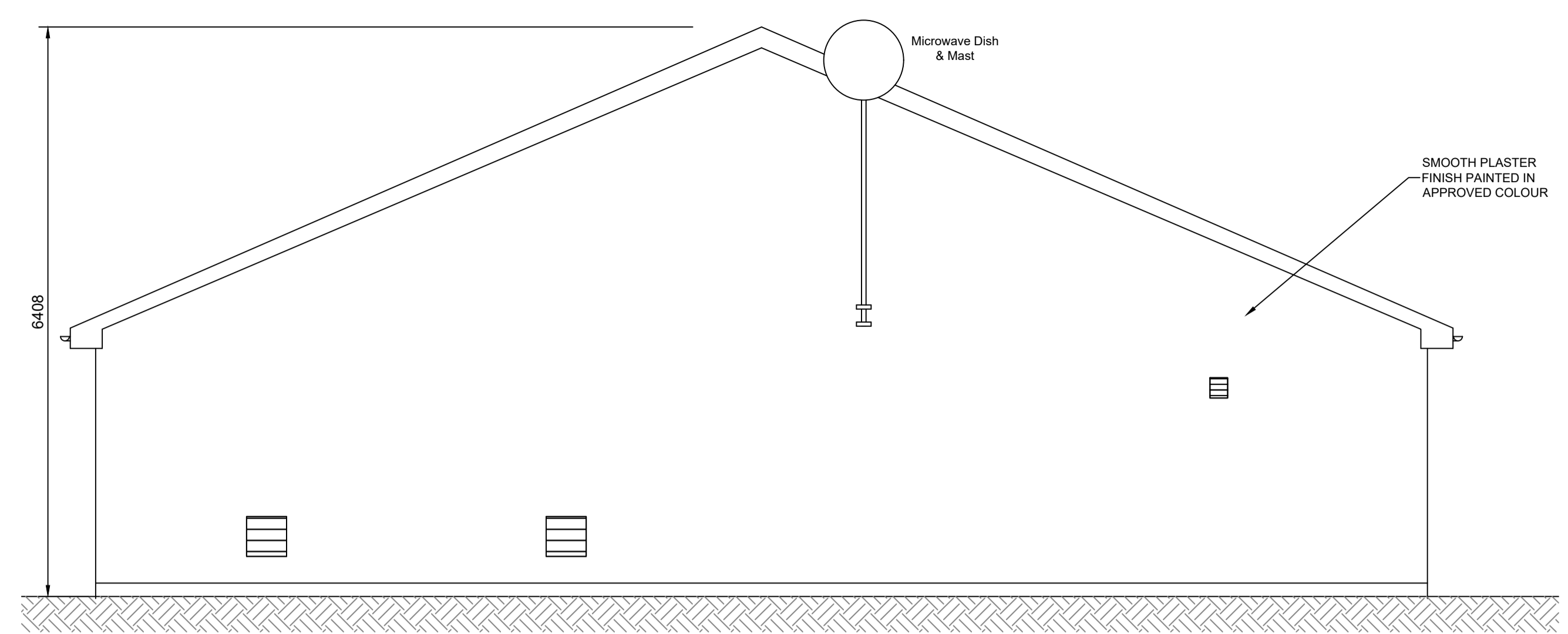
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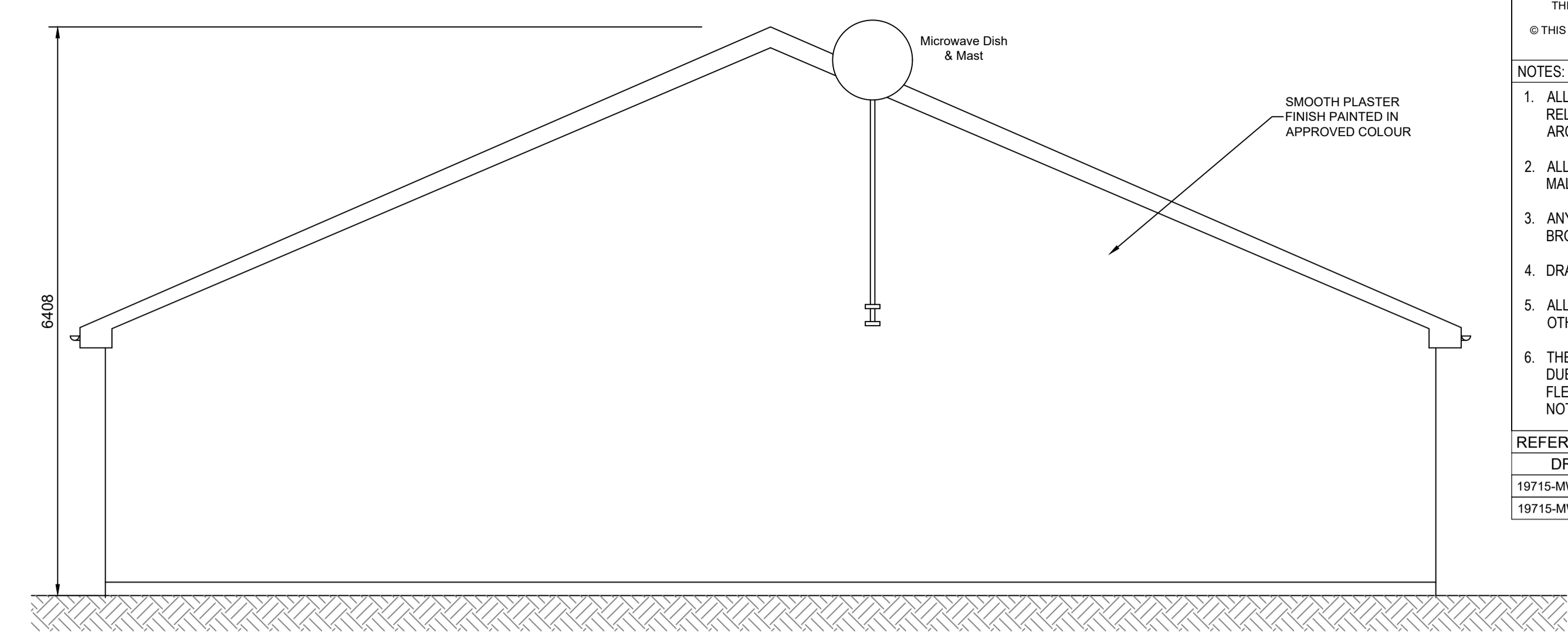
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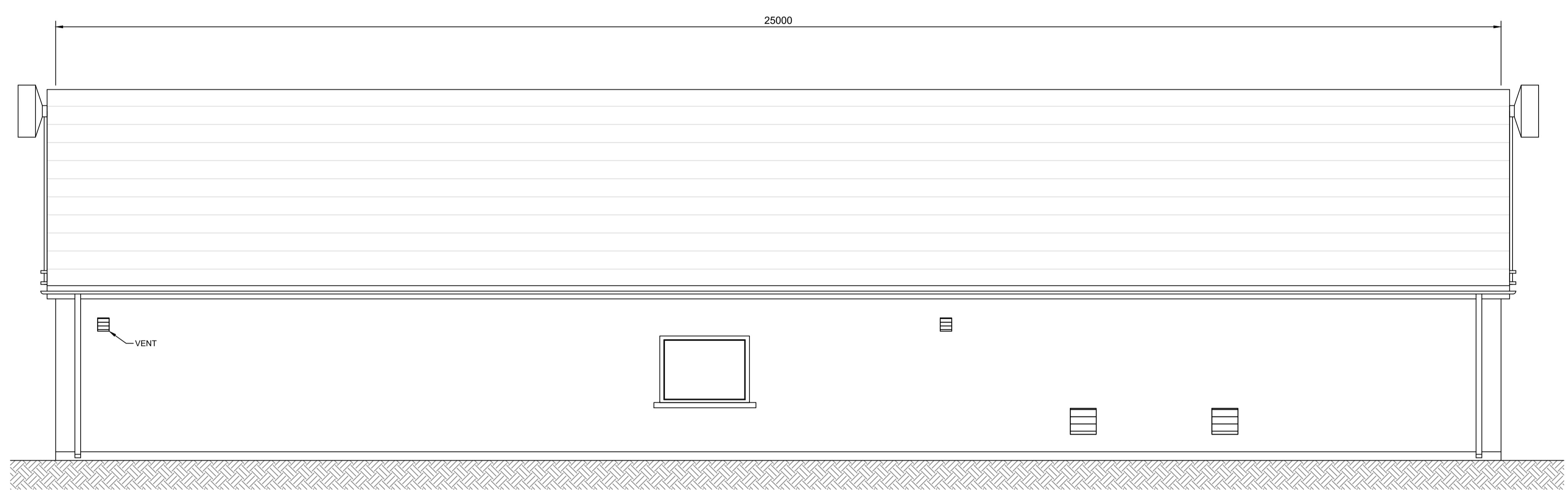
DRAWING No.	19715-MWP-00-00-DR-C-5005	Proposed Site Layout - Master Sheet
	19715-MWP-00-00-SK-C-0401	Substation Compound Layout



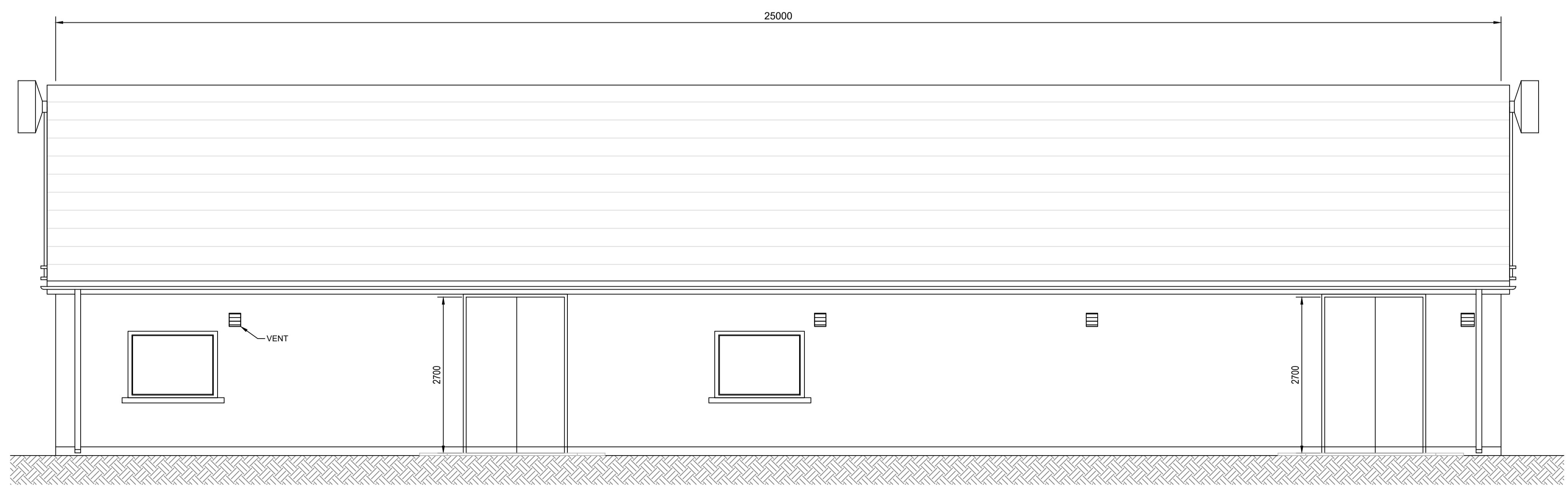
3 SOUTH ELEVATION
Scale: 1:50



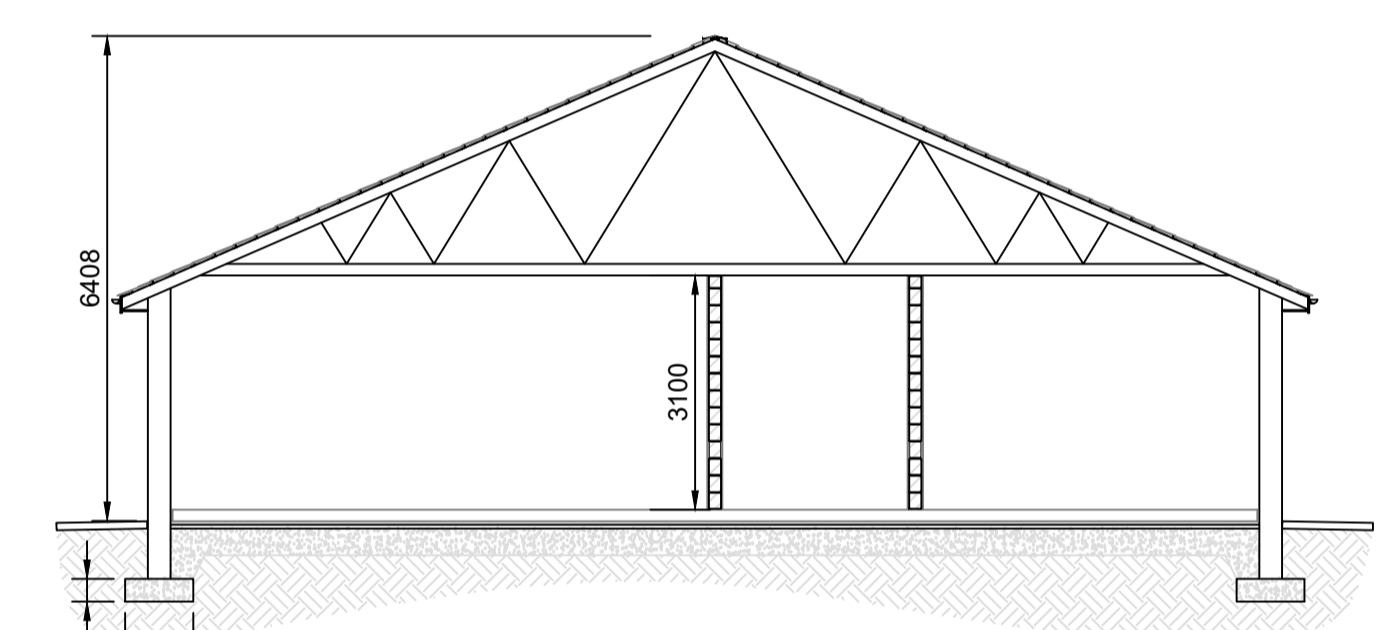
4 NORTH ELEVATION
Scale: 1:50



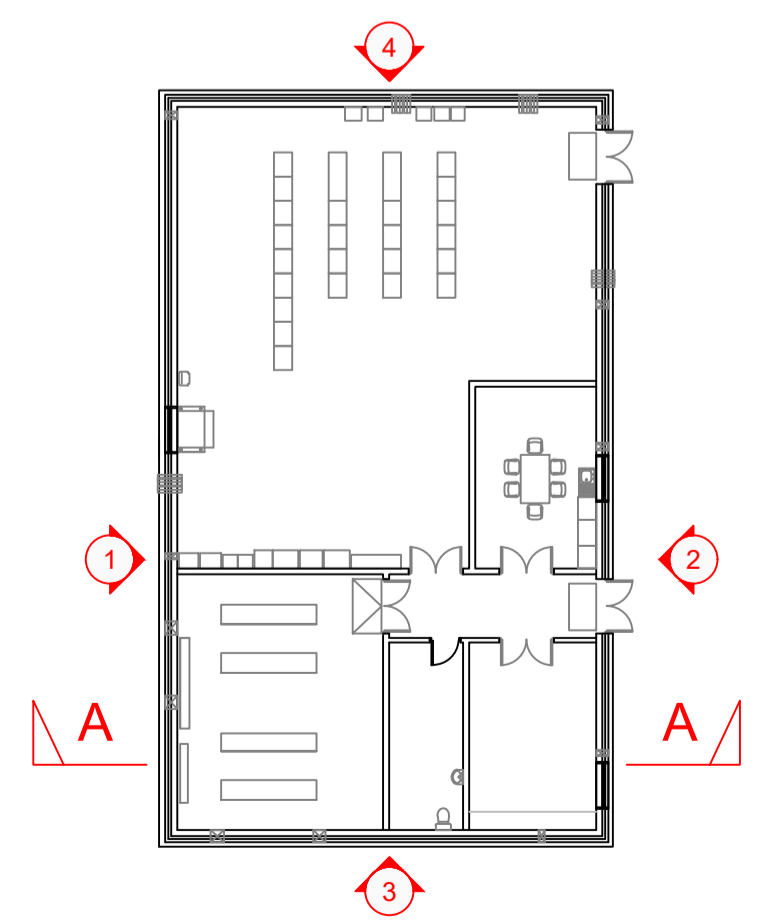
1 WEST ELEVATION
Scale: 1:50




2 EAST ELEVATION
Scale: 1:50



A SECTION
Scale: 1:100



REV	DATE	ISSUED FOR INFORMATION	BY	APP
P01	07/08/2020	ISSUED FOR INFORMATION	JK	PC
PROJECT: Drumnahough Wind Farm				
TITLE: EirGrid Substation Building - Elevations and Section				
CLIENT: Drumnahough Wind Farm DAC				
 Malachy Walsh and Partners Engineering and Environmental Consultants Cork Tralee London Limerick				
Reen Point, Blennerville, Tralee, Co. Kerry, V92 X2TK Tel: +353 (0) 66 7123404 Fax: +353 (0) 66 7125686 E-mail: tralee@mwp.ie Web: www.mwp.ie				
DRAWN:	JK	CHECKED:	PC	APPROVED:
				PC
DATE:	May 2020	SCALE @ A1:	1:50	
PROJECT NUMBER:	19715	DRAWING STATUS:	S2	
DRAWING NUMBER:	19715-MWP-00-00-SK-C-0403	REV:	P01	

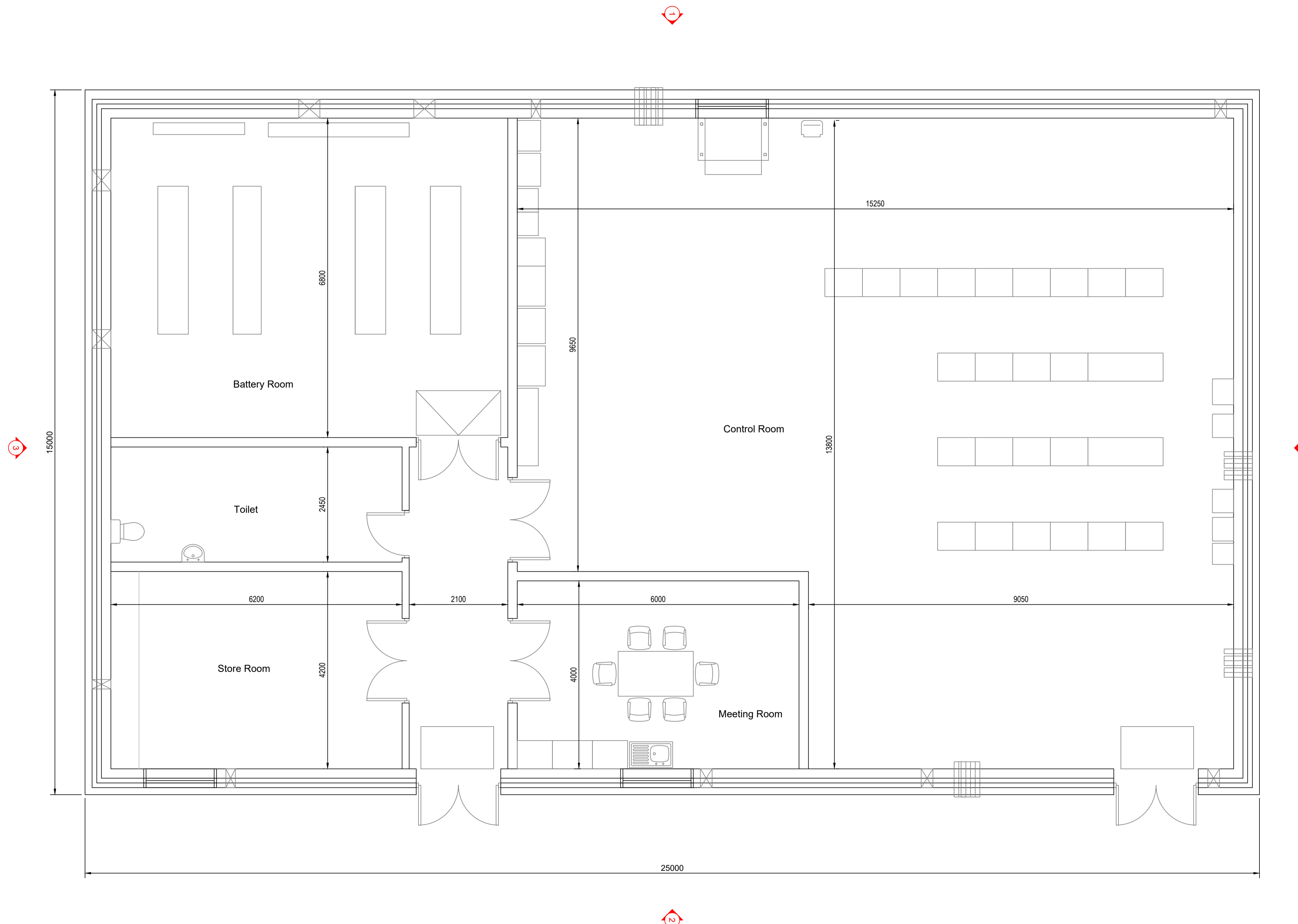
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REFERENCE DRAWINGS:

DRAWING No.	
19715-MWP-00-00-DR-C-5005	Proposed Site Layout - Master Sheet
19715-MWP-00-00-SK-C-0401	Substation Compound Layout



P01	07/08/2020	ISSUED FOR INFORMATION	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Drumnahough Wind Farm

TITLE: EirGrid Substation Building - Plan

CLIENT: Drumnahough Wind Farm DAC

Malachy Walsh and Partners
 Engineering and Environmental Consultants
 Cork | Tralee | London | Limerick

Reen Point,
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 E-mail: tralee@mwp.ie
 Web: www.mwp.ie

DRAWN: JK	CHECKED: PC	APPROVED: PC
DATE: May 2020	SCALE @ A1: 1:50	
PROJECT NUMBER: 19715	DRAWING STATUS: S2	

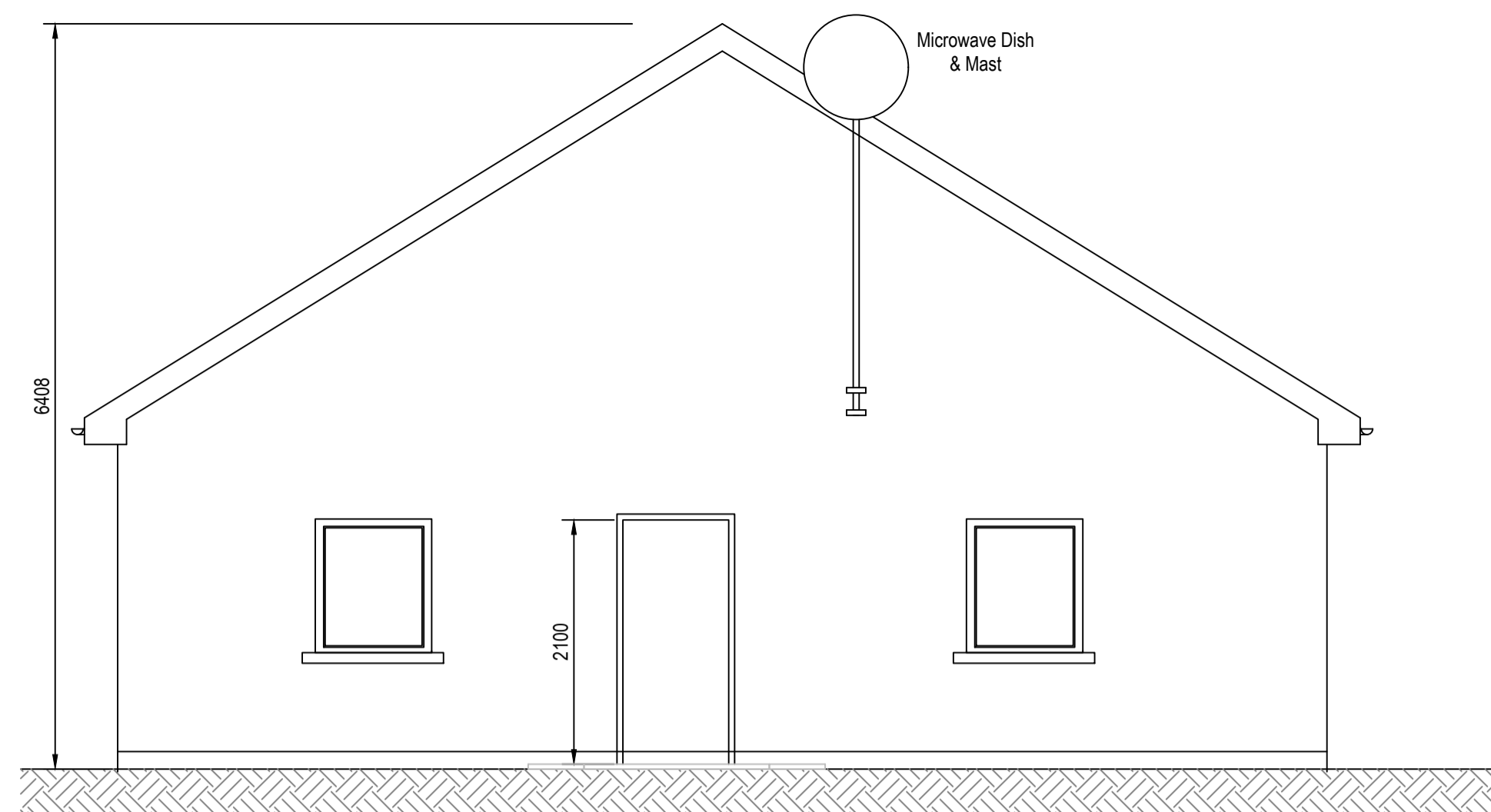
DRAWING NUMBER: 19715-MWP-00-00-SK-C-0404 REV: P01

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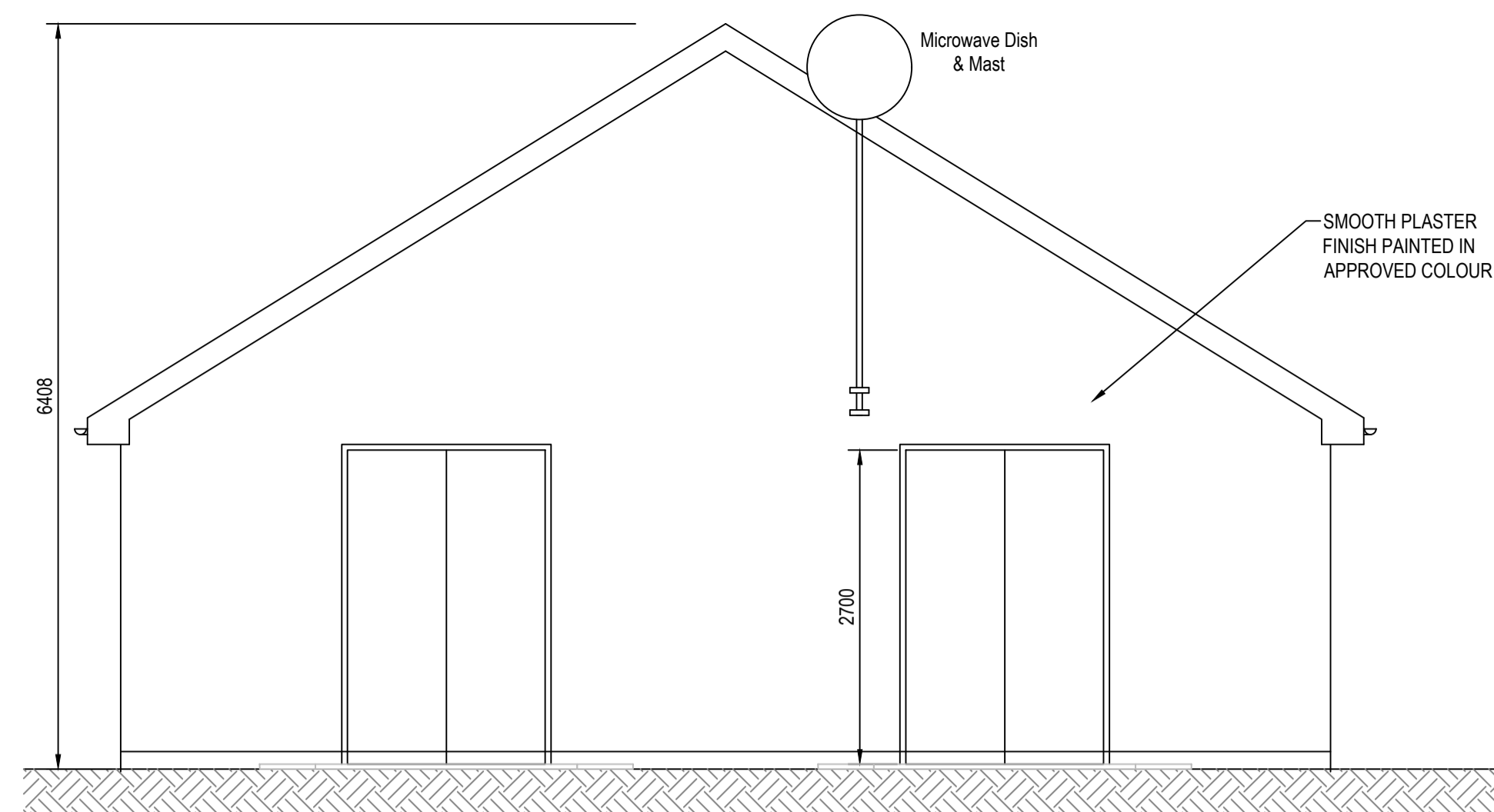
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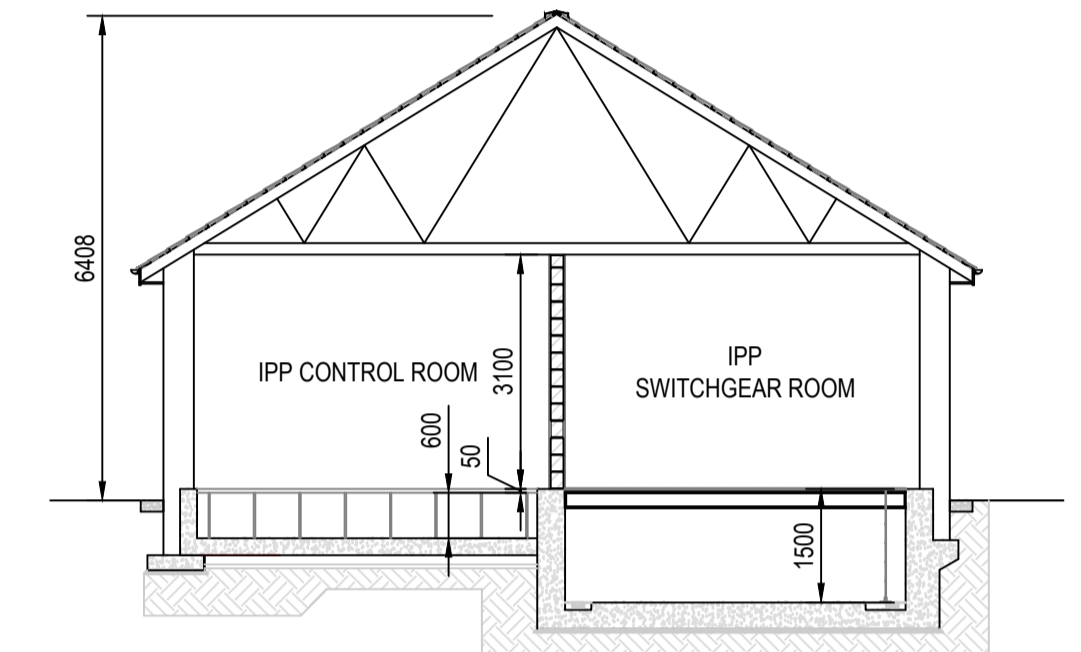
DRAWING No.	Proposed Site Layout - Master Sheet
19715-MWP-00-00-DR-C-5005	
19715-MWP-00-00-SK-C-0401	Substation Compound Layout



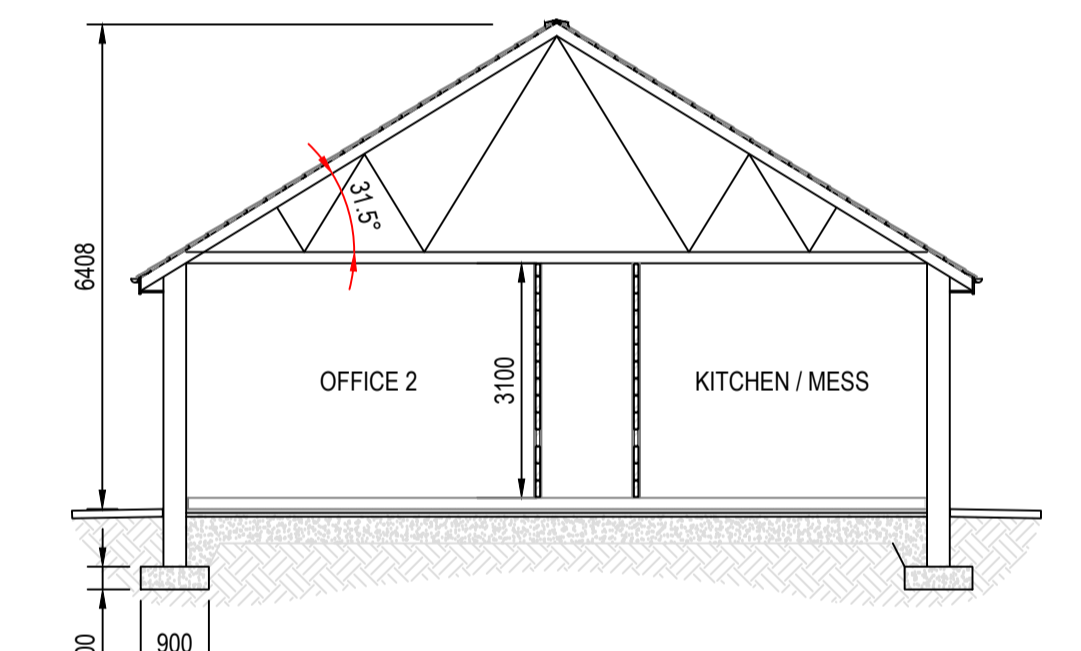
1 SOUTH ELEVATION
Scale: 1:50



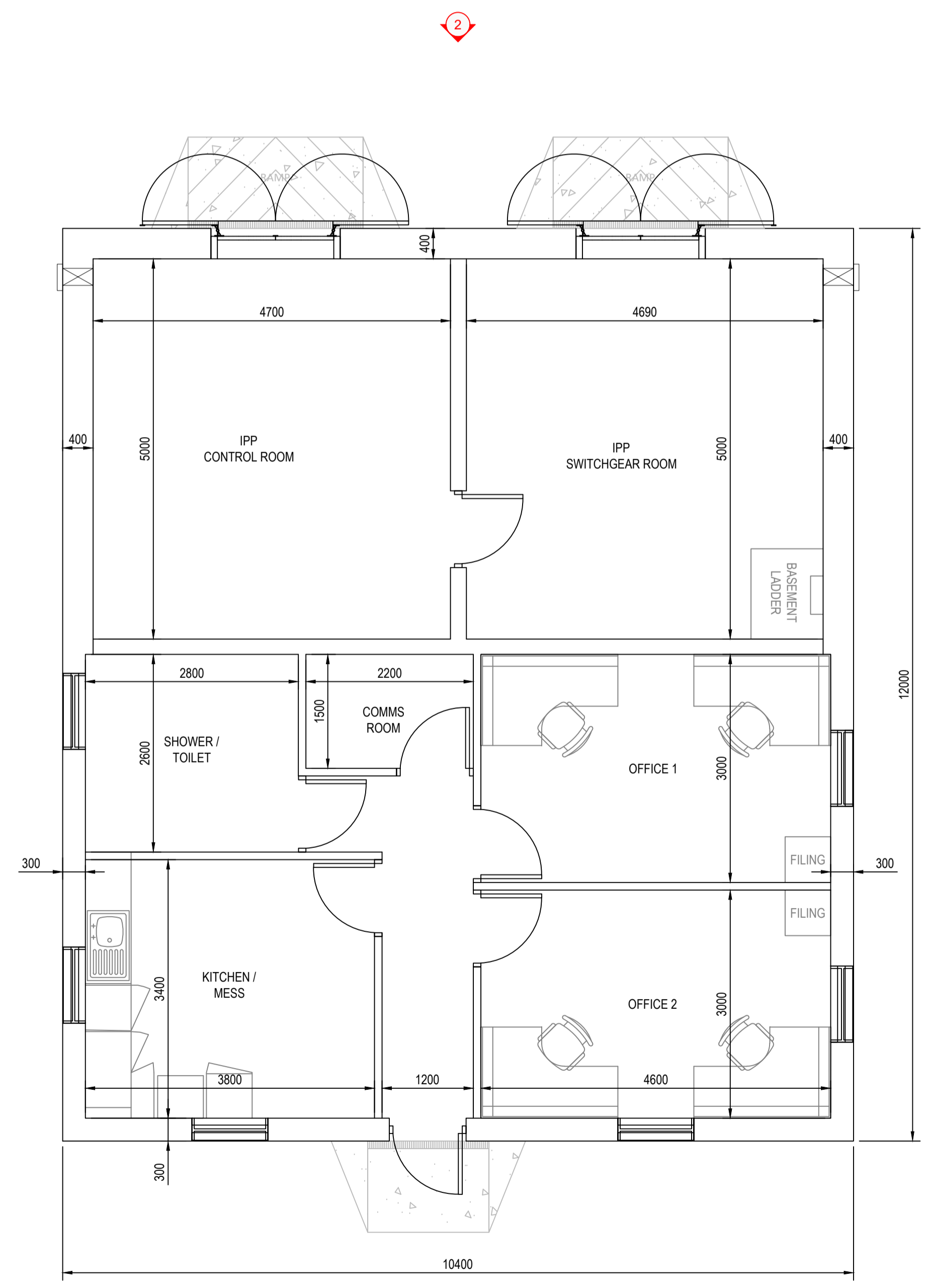
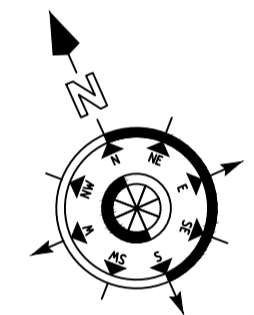
2 NORTH ELEVATION
Scale: 1:50



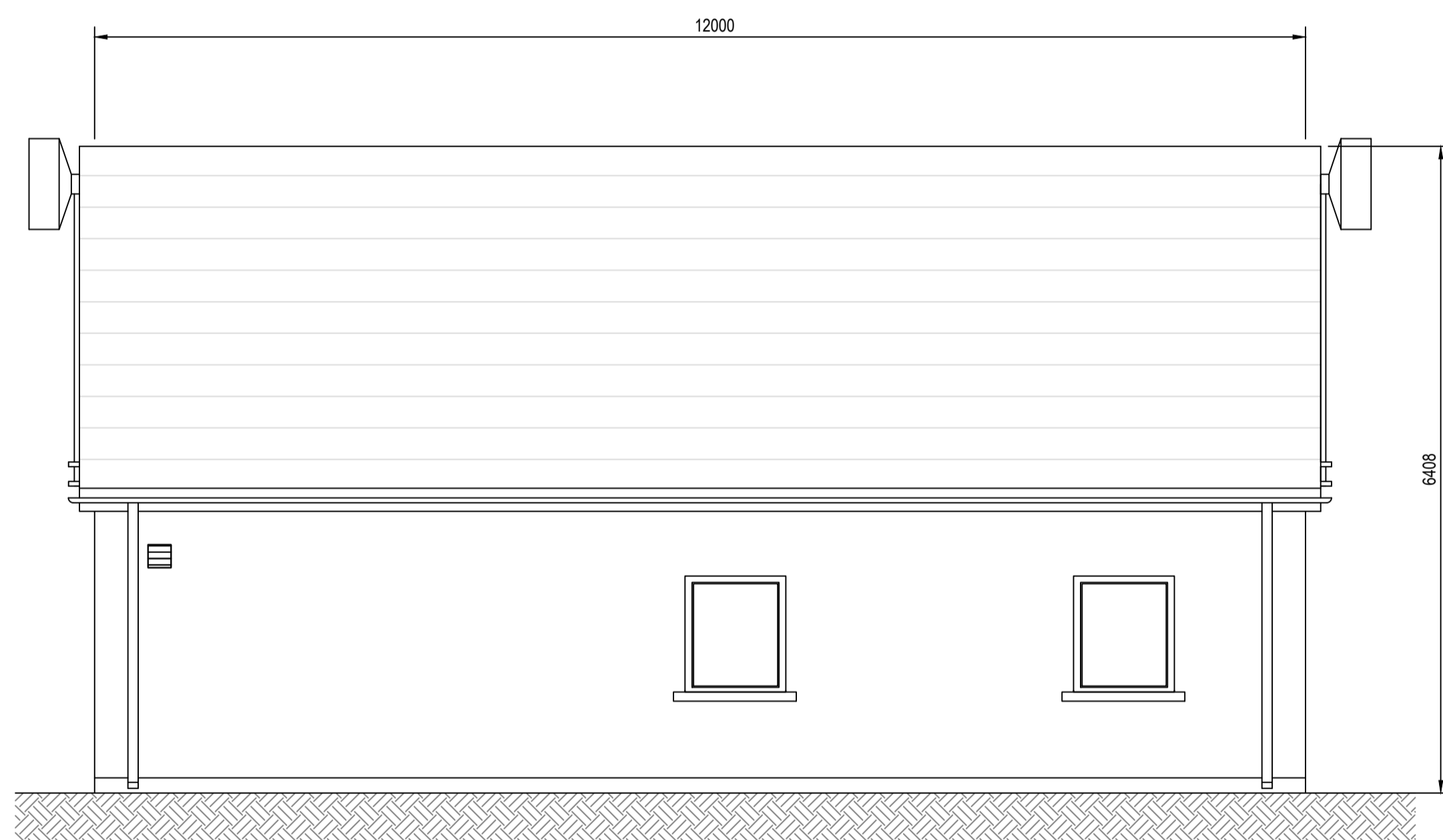
A SECTION
Scale: 1:100



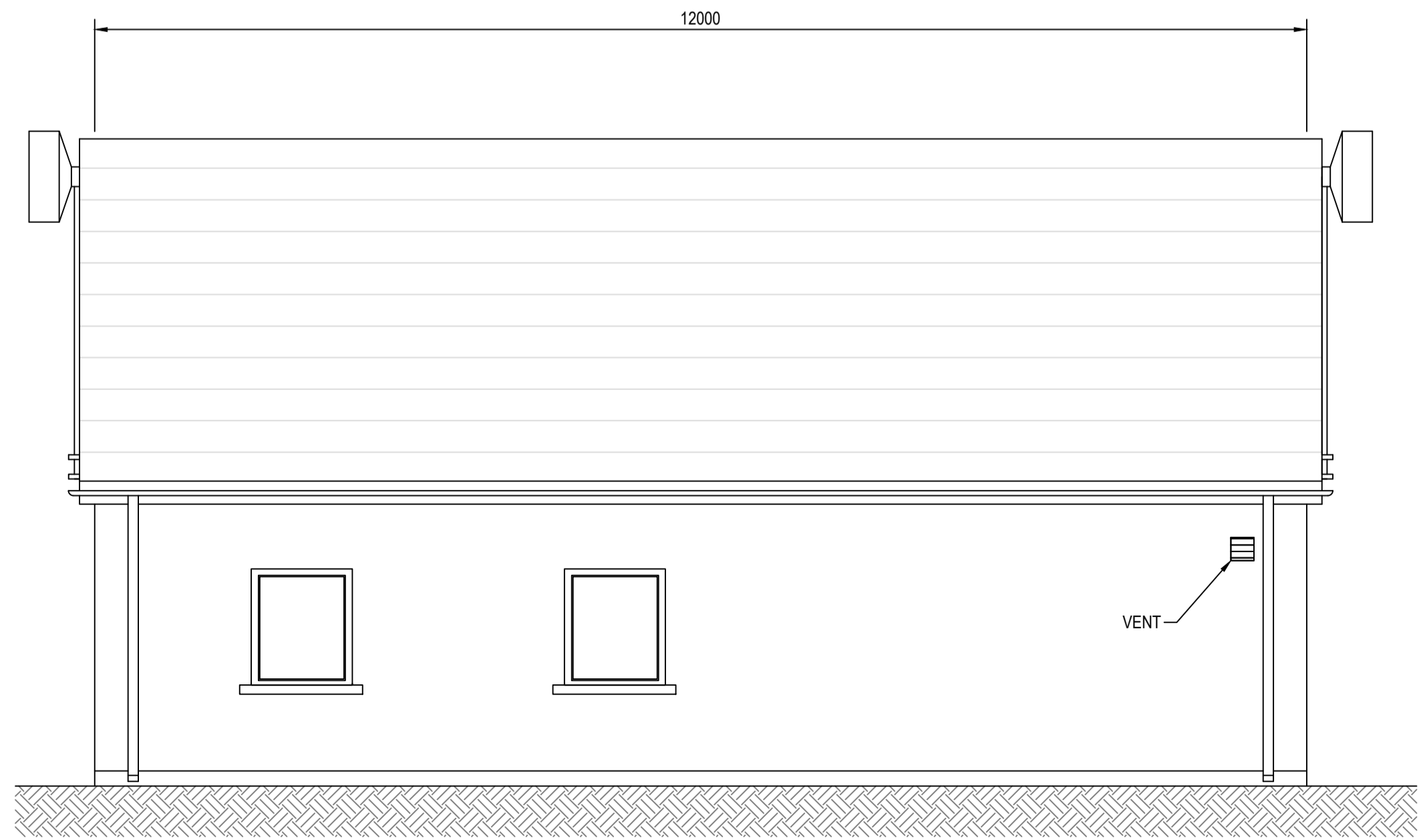
B SECTION
Scale: 1:100





3



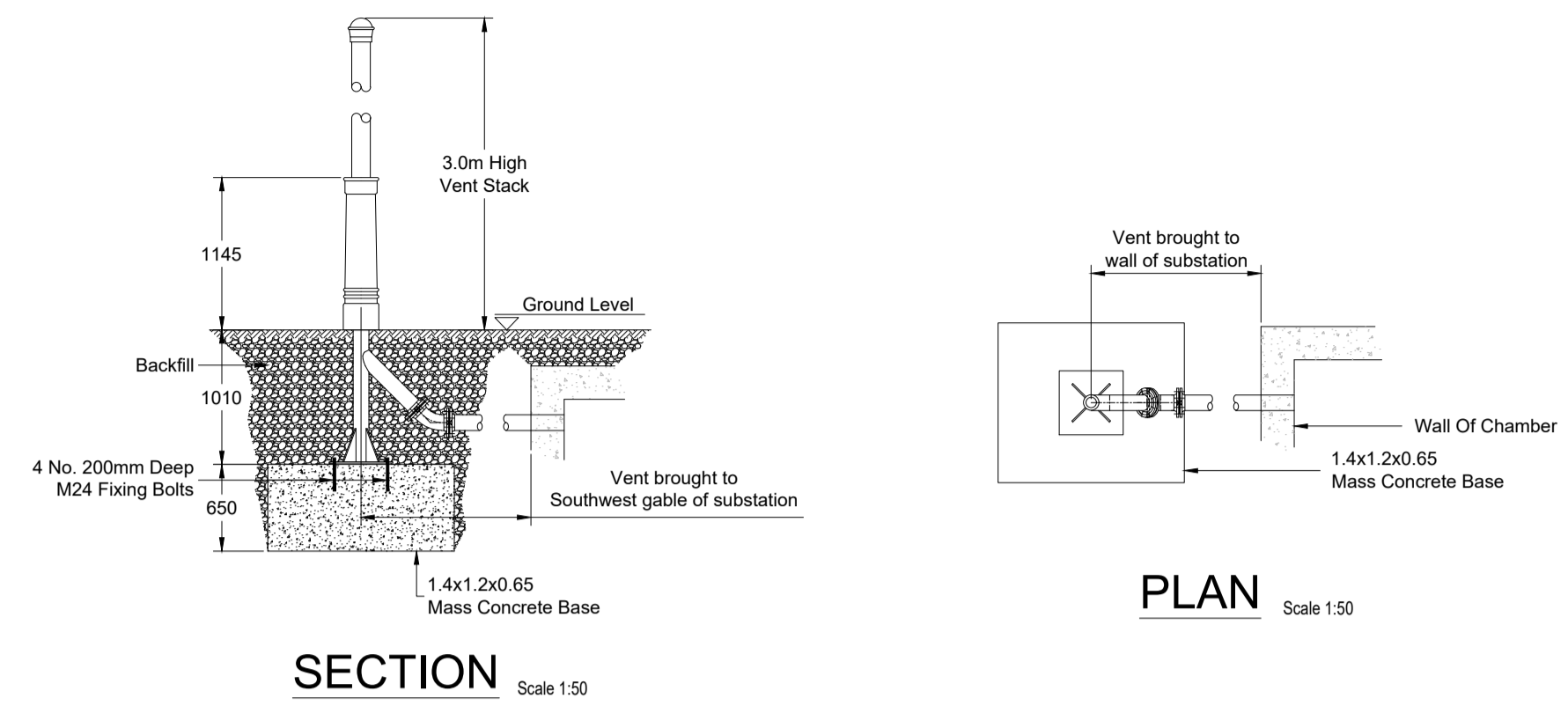
3 WEST ELEVATION
Scale: 1:50



4 EAST ELEVATION
Scale: 1:50

P01	07.08.2020	ISSUED FOR INFORMATION	JK	PC
REV	DATE	DESCRIPTION	BY	APP
PROJECT: Drumnahough Wind Farm				
TITLE: IPP Substation Building - Plan, Elevations & Sections				
CLIENT: Drumnahough Wind Farm DAC				
 Malachy Walsh and Partners Engineering and Environmental Consultants Cork Tralee London Limerick				
 Reen Point, Blennerville, Tralee, Co. Kerry, V92 X2TK		Tel: +353 (0) 66 7123404 Fax: +353 (0) 66 7125586 E-mail: tralee@mwp.ie Web: www.mwp.ie		
DRAWN: JK	CHECKED: PC	APPROVED: PC		
DATE: May 2020	SCALE @ A1: 1:50 & 1:100			
PROJECT NUMBER: 19715	DRAWING STATUS: S2			
DRAWING NUMBER: 19715-MWP-00-00-SK-C-0405				REV: P01

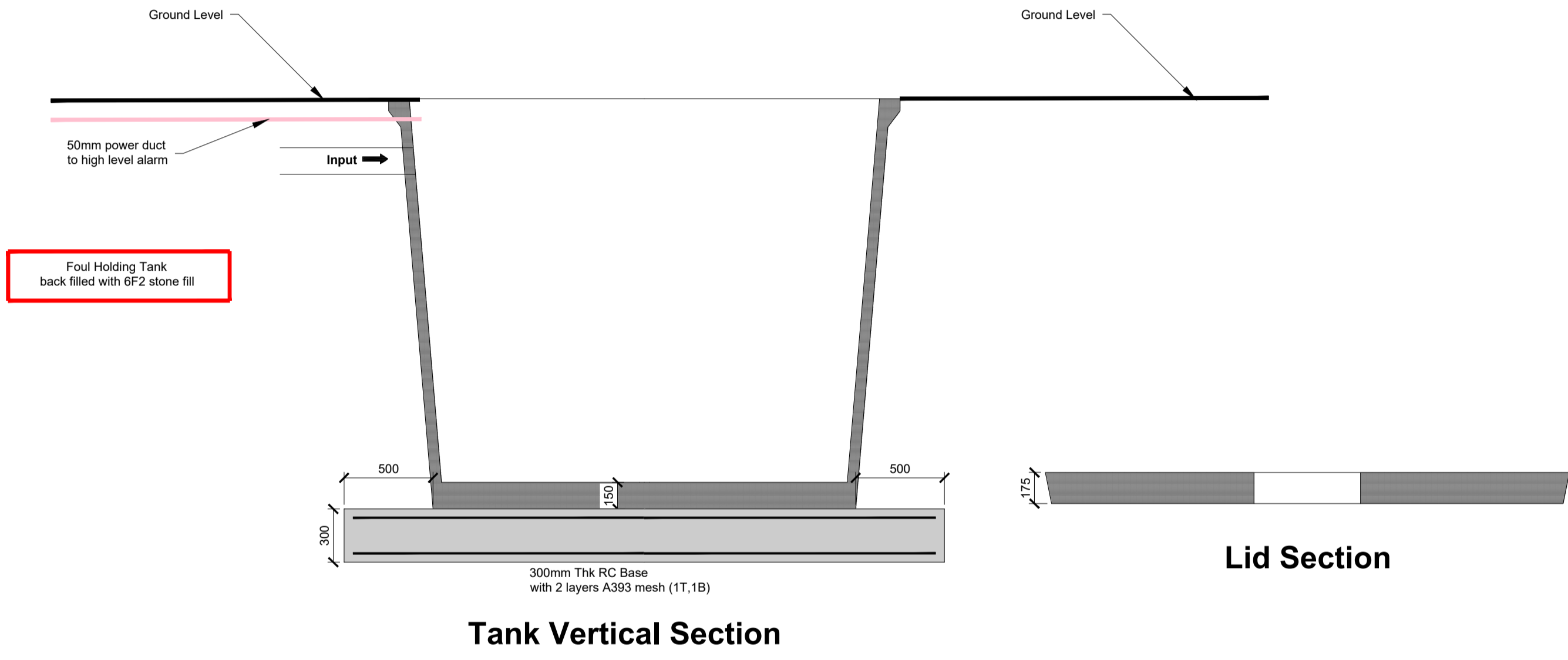
Typical Details And Sizings, Final
 Manufacturer, Sizings And Requirements
 Subject To Detailed Design!



SECTION Scale 1:50

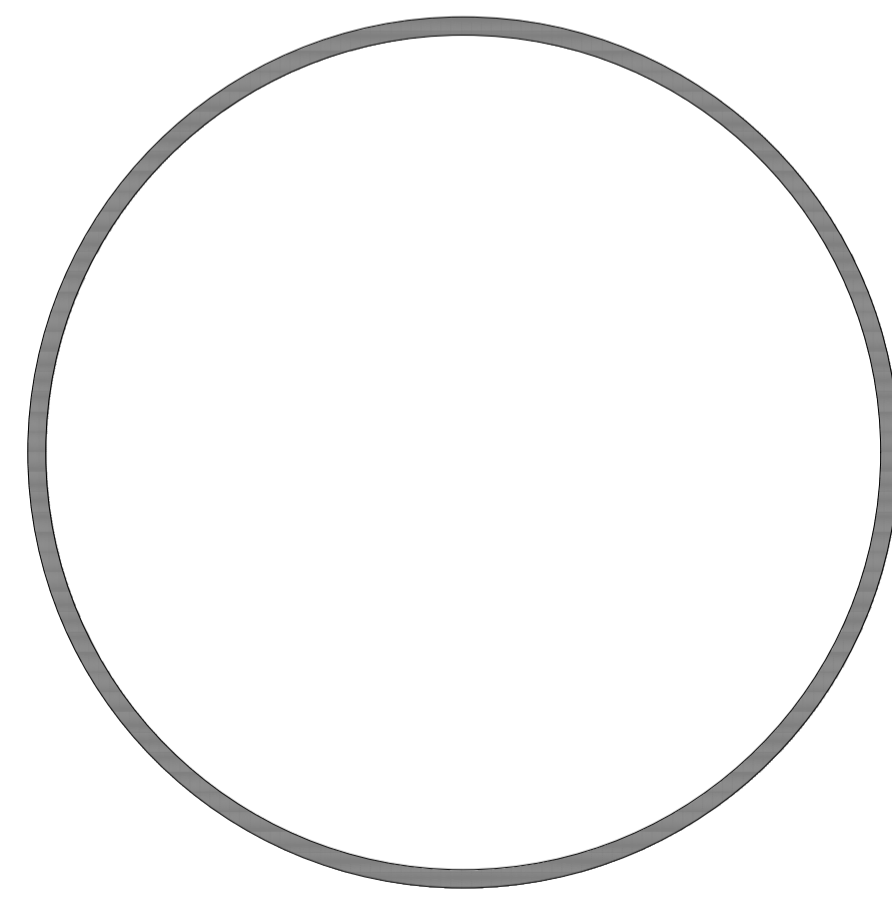
PLAN Scale 1:50

VENT STACK DETAIL

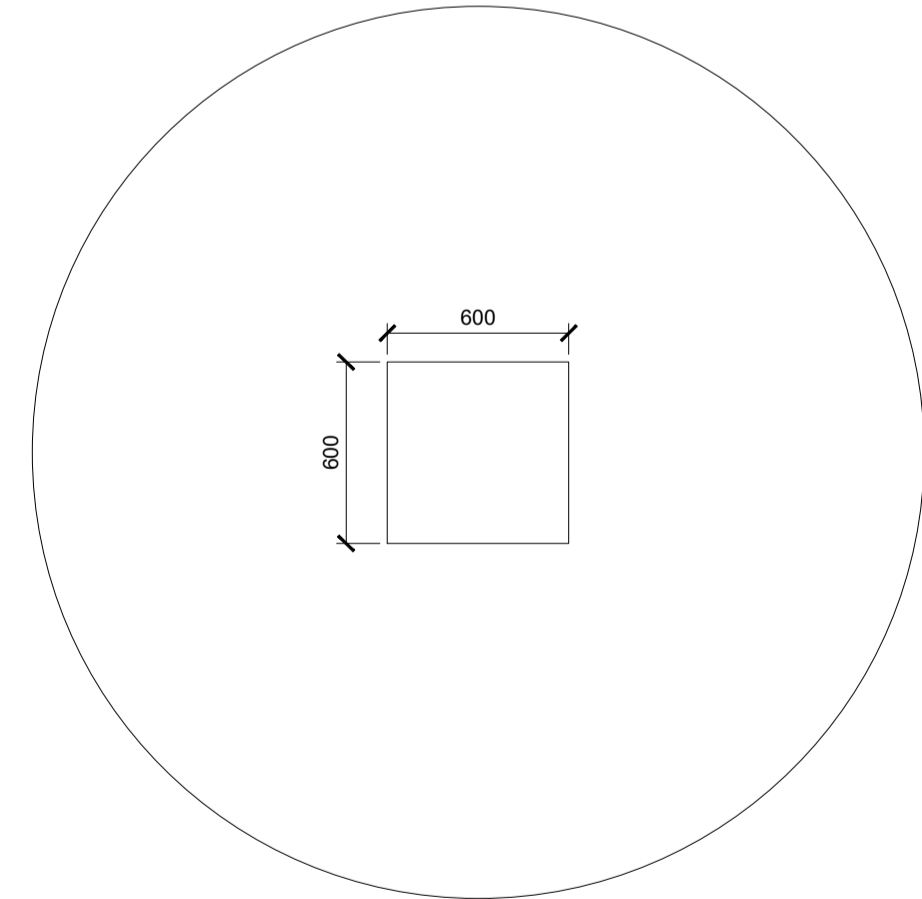


Tank Vertical Section

Lid Section



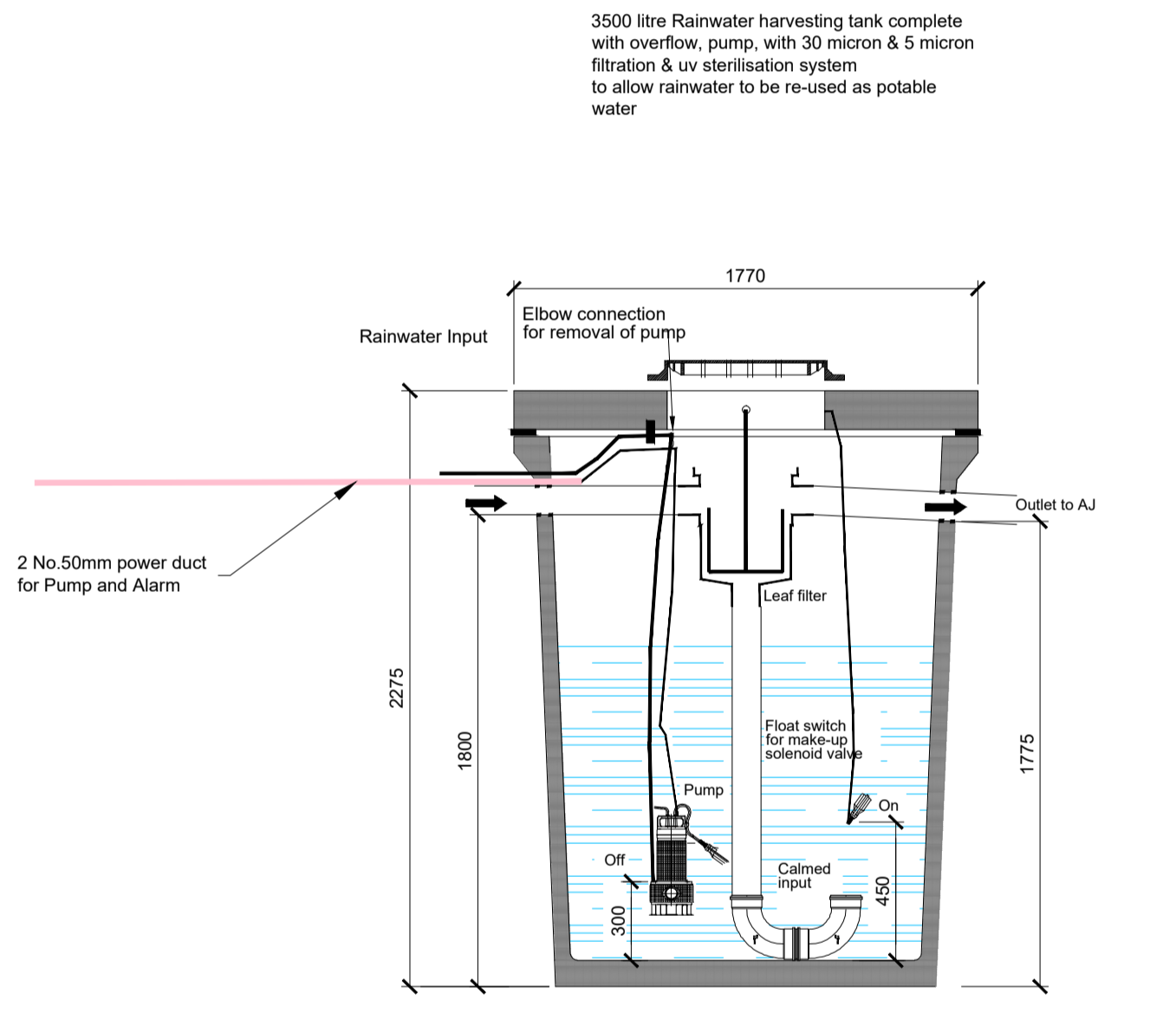
Tank Top Plan



Lid Top Plan

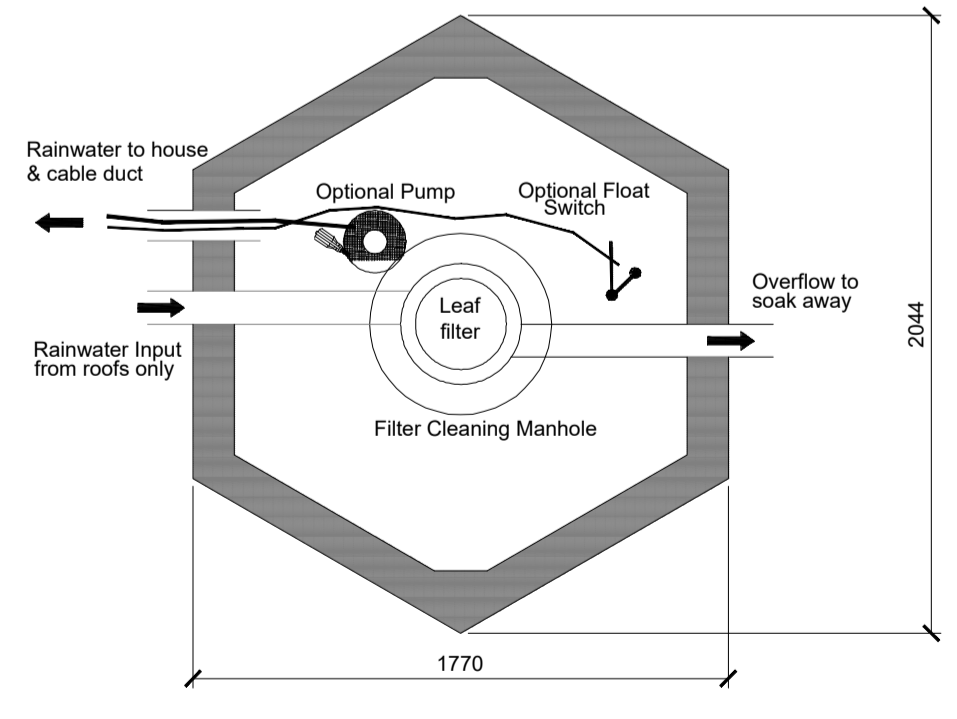
**FOUL SEWER HOLDING TANK
 (Volume 5m³)**

Scale 1:25



**Rainwater Harvesting -
 H+ Tank (3,500 Litres)**

Scale 1:25



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REFERENCE DRAWINGS:

DRAWING No.	Description
19715-MWP-00-00-DR-C-5005	Proposed Site Layout - Master Sheet
19715-MWP-00-00-SK-C-0401	Substation Compound Layout

P01	07/08/2020	ISSUED FOR INFORMATION	JK	PC
REV	DATE	DESCRIPTION	BY	APP

PROJECT: Drumnahough Wind Farm

TITLE: Substation Compound
 Foul Holding Tank & Rainwater Harvesting Tank Details

CLIENT: Drumnahough Wind Farm DAC

Malachy Walsh and Partners
 Engineering and Environmental Consultants
 Cork | Tralee | London | Limerick

Reen Point, Blennerville, Tralee, Co. Kerry, V92 X2TK
 Tel: +353 (0) 66 7123404
 Fax: +353 (0) 66 7126586
 E-mail: tralee@mwp.ie
 Web: www.mwp.ie

DRAWN: JK	CHECKED: PC	APPROVED: PC
DATE: May 2020	SCALE @ A1: As Shown	
PROJECT NUMBER: 19715	DRAWING STATUS: S2	

DRAWING NUMBER: 19715-MWP-00-00-SK-C-0406 REV: P01

Typical Details And Sizings, Final
 Manufacturer, Sizings And Requirements
 Subject To Detailed Design¹

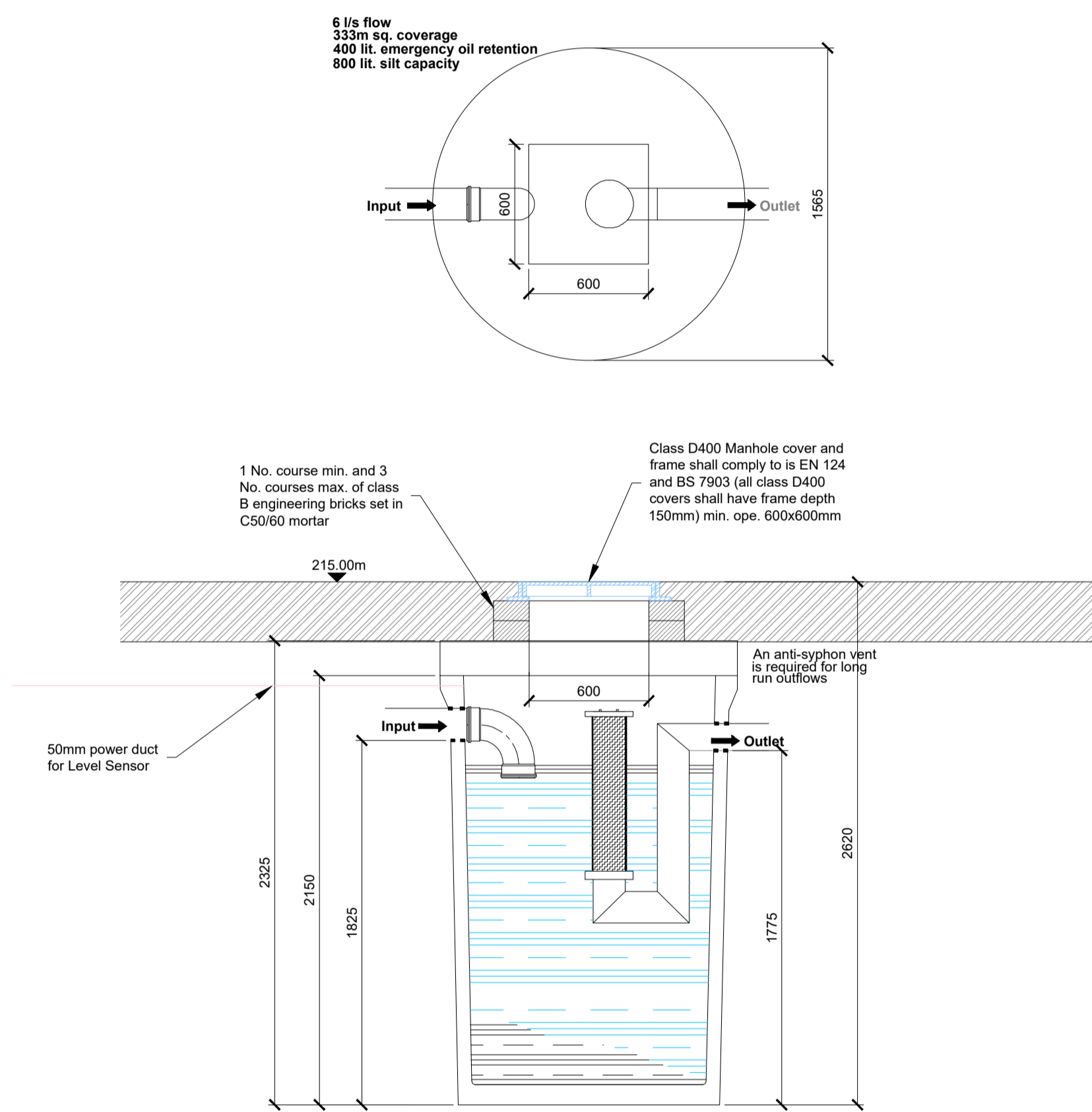
CARLOW CONCRETE TANKS		DRAWING TITLE: FULL RETENTION RANGE CP3FR 500 GALLON (2.2m³) FIA3 FILTER GENERAL LAYOUT		Drawn By: T. Armstrong	
				Date: 01/12/08	
				Revision: A (16/12/09)	

UNIT REF CODE	MAX FLOW RATE (l/s)	DRAINAGE AREA (m²)	NOMINAL OIL STORAGE (L)	SILT STORAGE CAPACITY (L)	INLET INVERT TO BASE (mm)	STANDARD PIPE SIZE O.D. (mm)
CP3FR	3.0	165	30	300	1,825	110 Dia

STANDARD DESIGN LOADS:
LID:
 IMPOSED LOAD: 10 kN/m² UDL OR 5,850 kg WHEEL LOAD UP TO 1m OVERBURDEN
 HEAVY DUTY OR CUSTOM LIDS CAN BE MANUFACTURED FOR MORE GENEROUS APPLICATIONS.
TANK:
 IMPOSED SURCHARGE: 10 kN/m² UDL (HA LOADING EQUIVALENT TO BS 5400-2)
NOTE: VERY LARGE POINT LOADS SUCH AS THOSE FROM CRANE OUTRIGGERS SHOULD BE AVOIDED IN THE IMMEDIATE VICINITY OF THE TANK

STANDARD ACCESS OPENING SIZE:
 - 600mm x 600mm
NON STANDARD SIZES ARE AVAILABLE ON REQUEST

STANDARD UNIT WEIGHTS:
 - TANK: 1.9 tonnes
 - COVER SLAB: 0.66 tonnes



Full Retention Class 1
 CP3FR, FIA Filter, Volume 2,200 lit
 Scale 1:25

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DRAWING No.	Description
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19715-MWP-00-00-SK-C-0401	Substation Compound Layout

REV	DATE	ISSUED FOR INFORMATION	BY	APP
P01	07/08/2020	ISSUED FOR INFORMATION	JK	PC

PROJECT: Drummahough Wind Farm

TITLE: Substation Compound Full Retention Class 1 Interceptor Details

CLIENT: Drummahough Wind Farm DAC

Malachy Walsh and Partners
 Engineering and Environmental Consultants
 Cork | Tralee | London | Limerick

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 Tralee,
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 E-mail: tralee@mwp.ie
 Web: www.mwp.ie

DRAWN: JK	CHECKED: PC	APPROVED: PC
DATE: May 2020	SCALE @ A1: As Shown	
PROJECT NUMBER: 19715	DRAWING STATUS: S2	
DRAWING NUMBER: 19715-MWP-00-00-SK-C-0407	REV: P01	

NOTE:
 Details as per Carlow Concrete Tanks, or similar approved.
 Tanks are to be installed and backfilled to manufacturer's requirements.
 Concrete lid and tank structure to be designed to suit loading conditions and approved prior to installation.

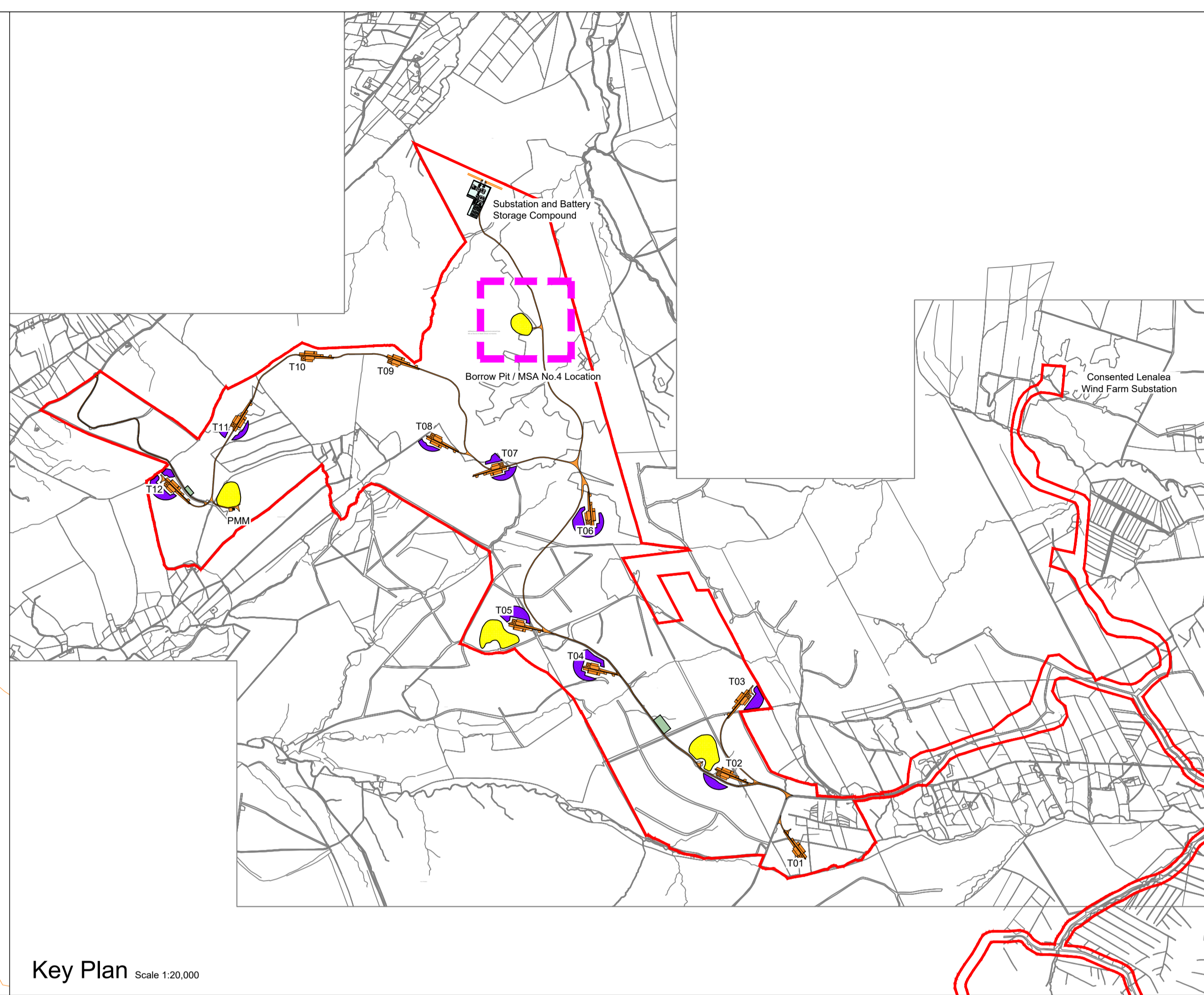
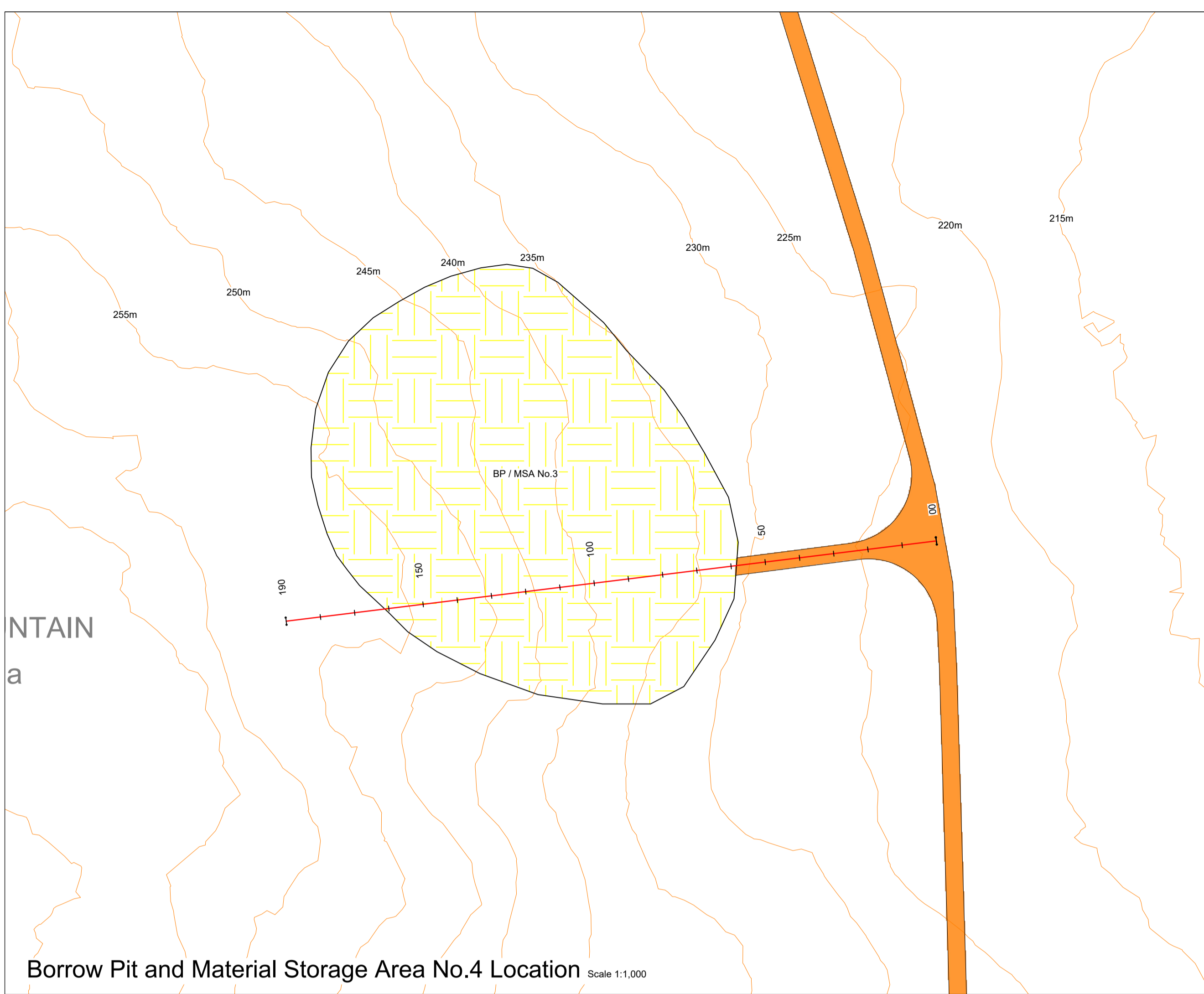
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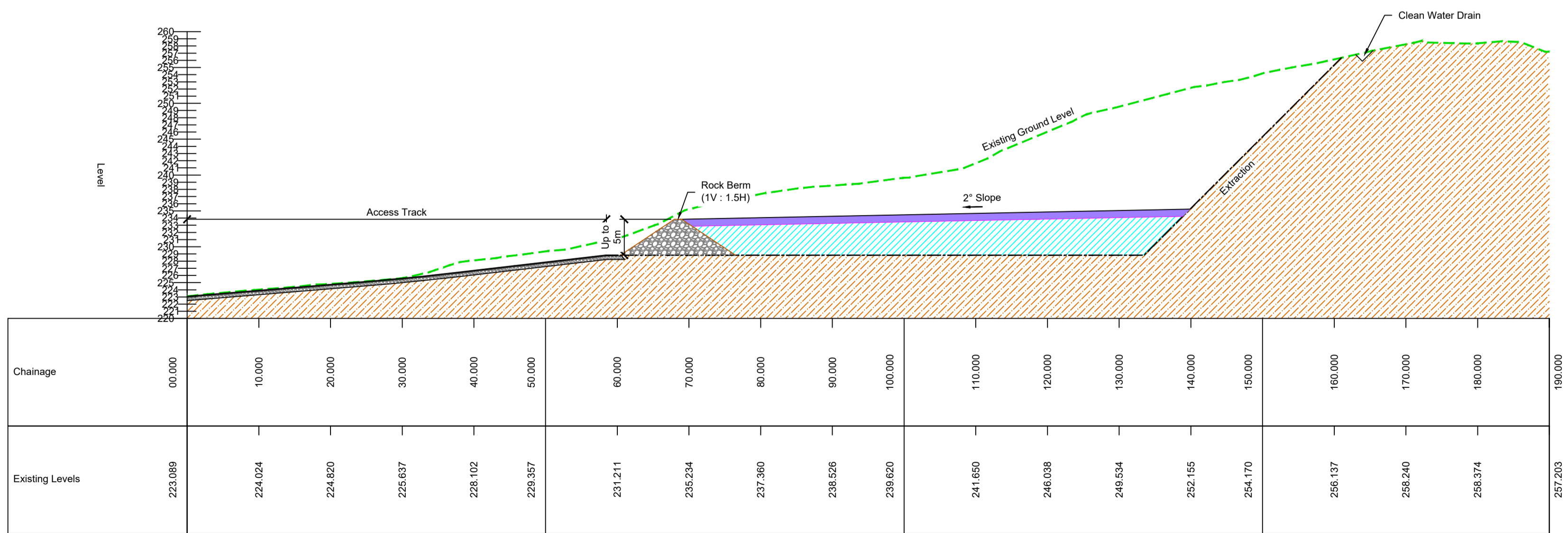
- LEGEND:
- SITE BOUNDARY
 - TURBINE HARDSTAND
 - ACCESS TRACK
 - BORROW PIT / MATERIAL STORAGE AREA (BP/MSA)
 - PEAT DEPOSITION AREA

REFERENCE DRAWINGS:

DRAWING No.	Description
19715-MWP-00-00-DR-C-5005	Proposed Site Layout - Master Sheet



- Legend :**
- Borrow pit stone extraction and filled with surplus peat material
 - Peat layer of approx 1m
 - Existing Ground Level



Map Reproduced From Ordnance Survey Ireland By Permission Of The Government. Licence Number EN 0015720.

OSI 1:5,000 Map Sheet Numbers: 0303, 0304, 0325, 0326, 0302 and 0324

REV	DATE	ISSUED FOR INFORMATION	BY	APP
P01	07/08/2020	ISSUED FOR INFORMATION	JK	PC

PROJECT: Drumnahough Wind Farm

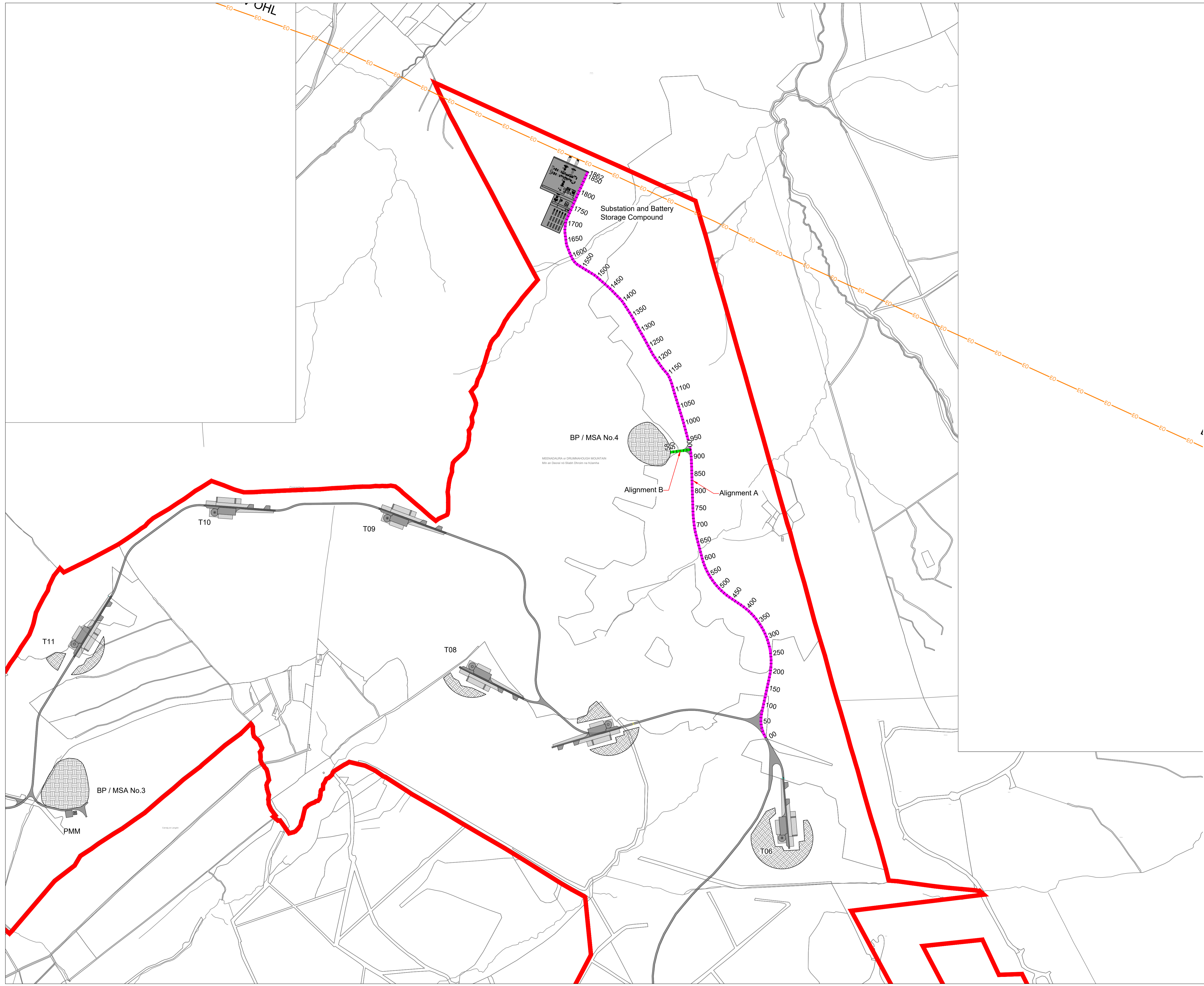
TITLE: Borrow Pit and Material Storage Area No. 4 Details and Sections

CLIENT: Drumnahough Wind Farm DAC

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DRAWN: JK	CHECKED: PC	APPROVED: PC
DATE: June 2020	SCALE @ A1: As Shown	
PROJECT NUMBER: 19715	DRAWING STATUS: S2	
DRAWING NUMBER: 19715-MWP-00-00-SK-C-0408	REV: P01	



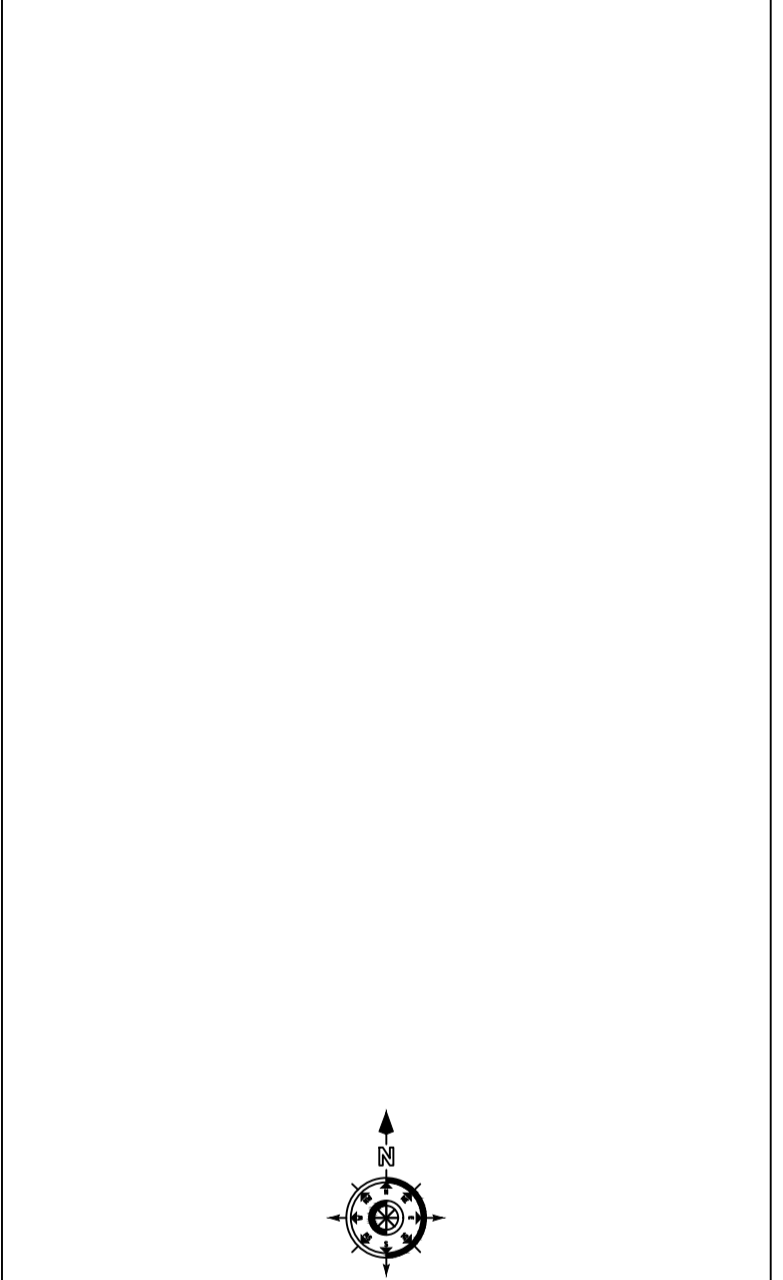
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 7. ROUTE / SECTIONS ARE PRELIMINARY AND SUBJECT TO DETAILED DESIGN.

- LEGEND:
- SITE BOUNDARY
 - TURBINE HARDSTAND
 - WIND FARM ACCESS TRACK
 - BORROW PIT / MATERIAL STORAGE AREA (BP/MSA)
 - PEAT DEPOSITION AREA

REFERENCE DRAWINGS:

DRAWING No.	19715-MWP-00-00-DR-C-5005	Proposed Site Layout - Master Sheet
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P01	07/08/2020	ISSUED FOR INFORMATION	JK	PC
REV	DATE	DESCRIPTION	BY	APP
PROJECT: Drumnahough Wind Farm				
TITLE: Road Alignment Locations				
CLIENT: Drumnahough Wind Farm DAC				

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DRAWN: JK	CHECKED: ED	APPROVED: ED
DATE: May 2020	SCALE @ A1: NTS	
PROJECT NUMBER: 19715	DRAWING STATUS: S2	
DRAWING NUMBER: 19715-MWP-00-00-SK-C-0409	REV: P01	

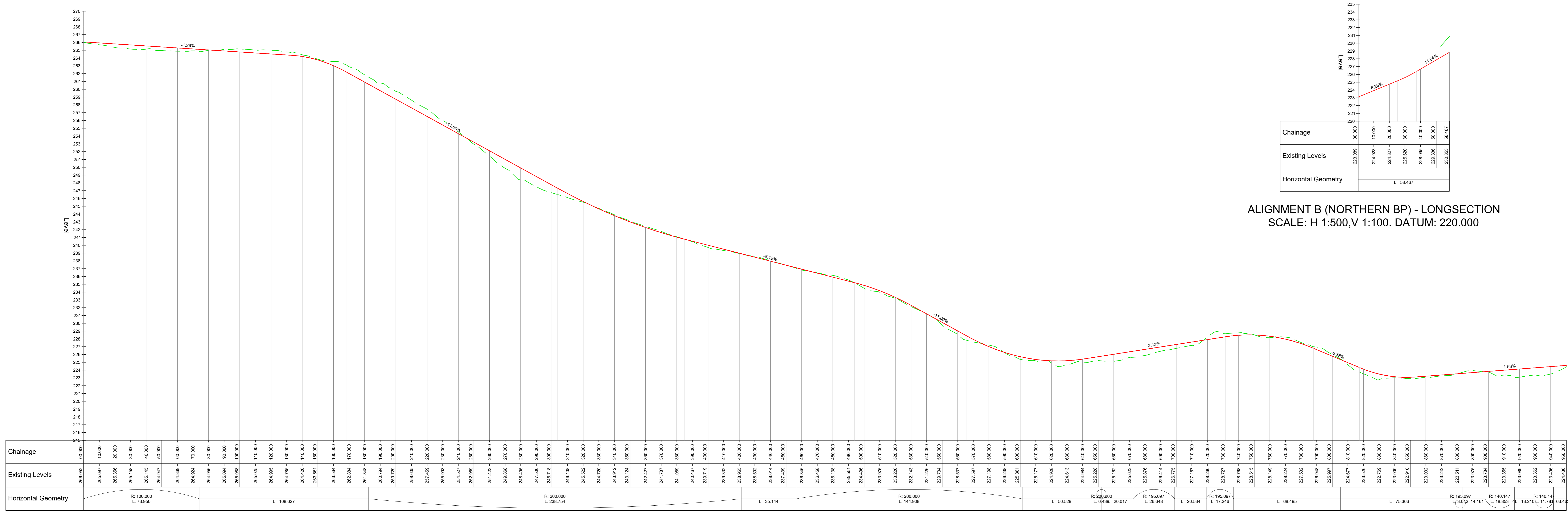
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LEGEND:
 PROPOSED GROUND LEVEL
 EXISTING GROUND LEVEL

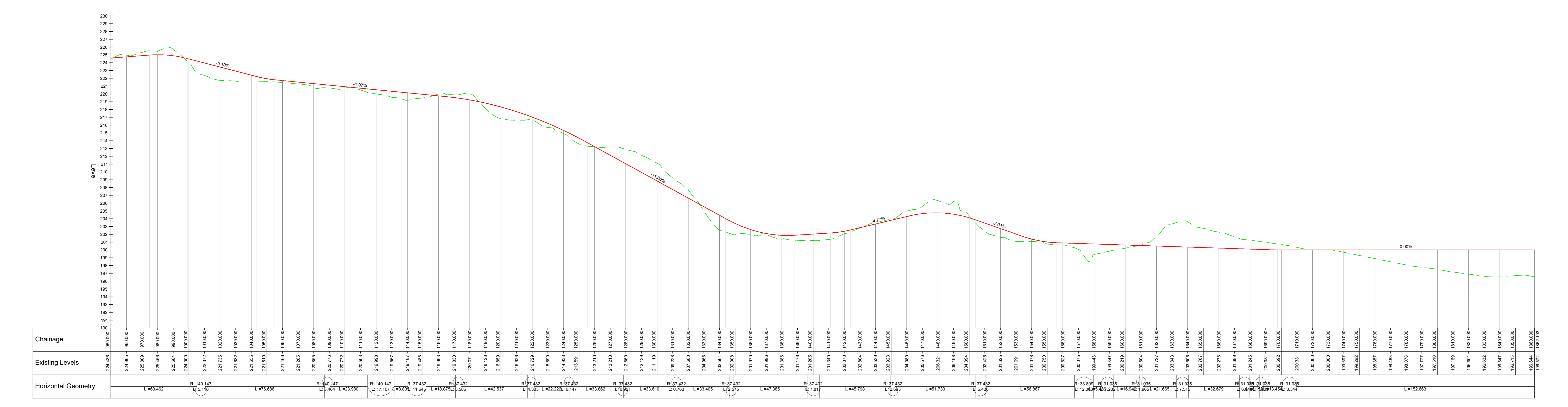
REFERENCE DRAWINGS:

DRAWING No.	Description
19715-MWP-00-00-DR-C-005	Proposed Site Layout - Master Sheet
19715-MWP-00-00-SP-C-009	Road Alignment Locations



ALIGNMENT B (NORTHERN BP) - LONGSECTION
 SCALE: H 1:500, V 1:100. DATUM: 220.000

ALIGNMENT A - LONGSECTION - Chainage 0 to 950
 SCALE: H 1:500, V 1:100. DATUM: 215.000



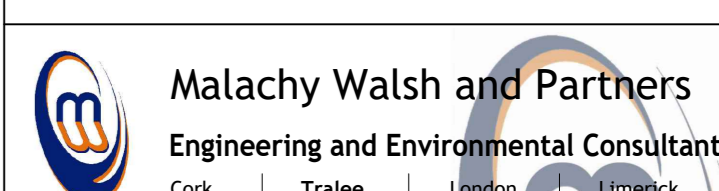
ALIGNMENT A - LONGSECTION (CONTINUED) - Chainage 950 to 1862.193
 SCALE: H 1:500, V 1:100. DATUM: 190.000

REV	DATE	DESCRIPTION	BY	APP
01	17/10/20	ISSUED FOR INFORMATION	JK	PC

PROJECT: Drumahough Wind Farm

TITLE: Road Alignment Sections

CLIENT: Drumahough Wind Farm DAC



Malachy Walsh and Partners
 Engineering and Environmental Consultants
 Cork | Tralee | London

Drawn: JK
 Checked: ED
 Approved: ED

Date: May 2020
 Scale: As Shown

Project Number: 19715
 Drawing Status: S2

Project Name: 19715-MWP-00-00-SK-C-0410
 Drawing ID: P01