

Coordinate System

This survey has been oriented to the Ordnance Survey (OS) National Grid and Datum using GPS observations and the OS Active Network.

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Notes

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6. Gwalia Surveyors cannot accept any responsibility for any damage to computer systems from viruses which may be contained in the datafiles supplied.

Key to Abbreviations

Inspection Covers & Chambers	Walls & Fence Types
AV Air Valve	BL Block Wall
BR Barbed Wire	BW Barbed Wire Fence
BT British Telecom Cover	CB Close Boarded Fence
CCP Combined Water	CI Corrugated Iron Fence
CV Cable Drive Pit	CL Chain Link Fence
Dr Ch Drainage Channel	Gal Galvanised
Elec Electric Inspection Cover	CIP Concrete Post
ER Earth Rod	HR Hand Rail
FI Fire Hydrant	IR Iron Railings
FW Foul Water	LR Lead
G Gully	Pal Palisade Fence
GC Gas Cock	PR Post & Rail Fence
GV Gas Valve	PW Post & Wire Fence
IC Inspection Cover	Ret Retaining Wall
KD Kerb Outlet	St Stone Wall
MH Manhole	
RE Rodding Eye	
SC Stop Cock	
SV Stop Valve	
SW Storm Water	
TV Cable Television Cover	
UL Up Lighter	
UTL Unable to Lift	
WM Water Motor	
WIO Washout	

Ground Surface Types	Street Furniture
Asp Asphalt	B Bollard
B/B Block Pavers	BB Bellisha Beacon
Conc Concrete	DP Down Pipe
Plav Concrete Paving	EP Electricity Pole
Tac Tactile Paving	FB Flower Bed
	JB Junction Box
	LP Lamp Post
	MP Marker Post
	PS Post Box
	R/S Road Sign
	RWP Rain Water Pipe
	SF Sign Post
	SP Soil Vent Pipe
	TL Traffic Light
	TP Telegraph Pole
	VP Vent Pipe

Measurement Descriptions
CL Cover Level
d Depth (m)
dia Diameter (mm)
FFL Finished Floor Level
h Feature Height (m)
IL Invert Level
SL Sump Level
SoL Soffit Level
WL Water Level

Linetypes & Symbols

— Banks	— Benking
— Buildings	— Flow Direction
— Building Overhead	— Gate
— Change of Surface	— Survey Station
— Fences	— Tree
— Kerbs	
— Overhead Cables	
— Ridges & Eaves	
— Steps	
— Walls	
— Vegetation	
— Tree Canopy	
— Combined Water	
— Foul Water	
— Storm Water	

Sheet Layout

Rev.	Date	Drawn	Details

Gwalia SURVEYORS

Unit 1, Link Trade Park,
Penarth Road, Cardiff, CF11 8TQ
Cardiff: 029 2011 1700 London: 020 3011 1099
W: gwaliasurveyors.co.uk

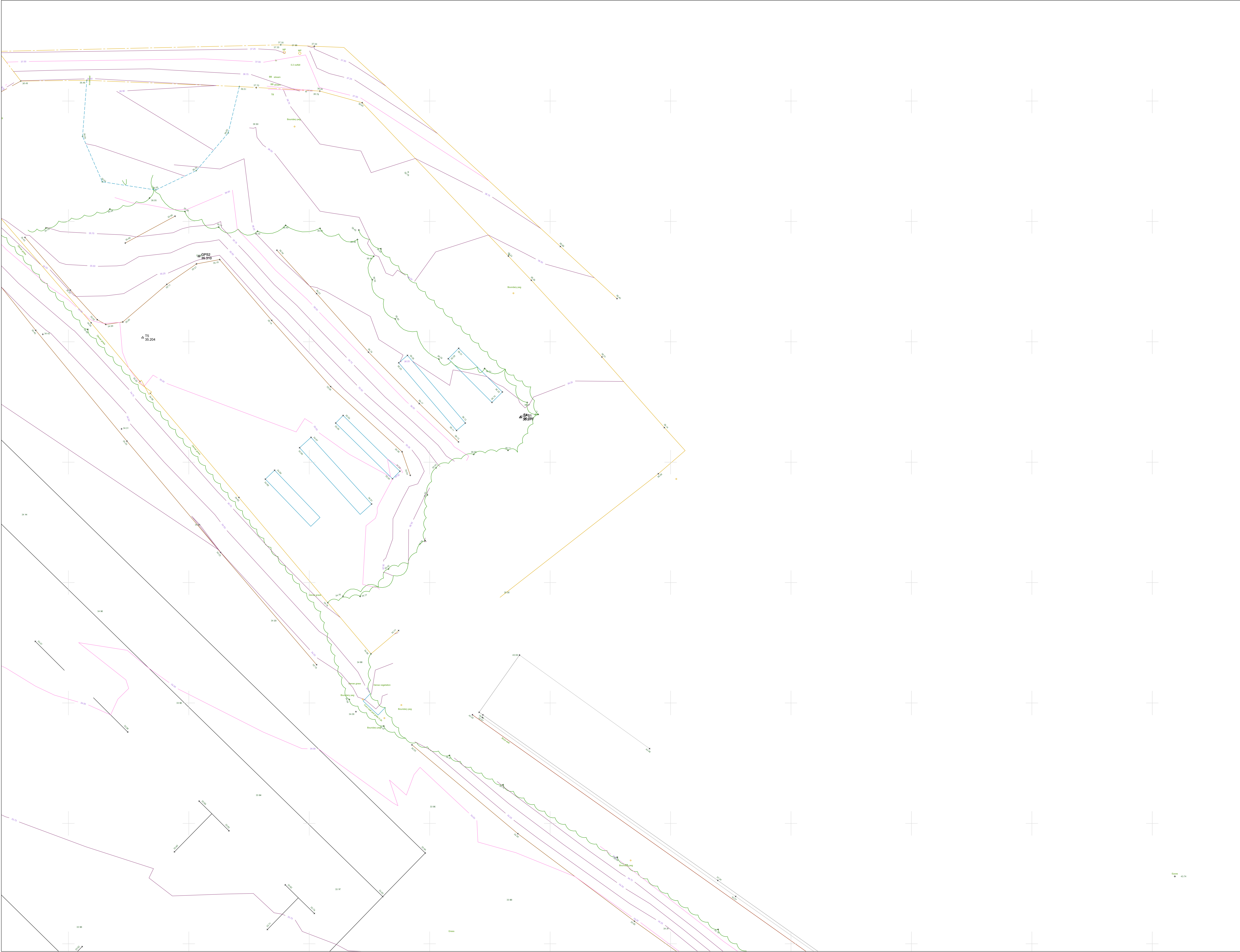
LAND | UTILITIES | BUILDING | BOUNDARY | BIM

Title: **Topographical Survey**

Project: **Llangatwg Community School**

Client: **Morgan Sindall**

Drawn: NJ/CU	Checked: DR
Date: 30-04-2025	Scale: 1:100 @ A0
Drawing Number: 3387-1-T-01	Rev: -



Coordinate System

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Dr Ch. Drainage Channel	CL Chain Link Fence
Elec. Electric Inspection Cover	C/P Concrete Post
ER Earth Rod	Gal. Galvanised
FI Fire Hydrant	HR Hand Rail
FW Foul Water	IR Iron Railings
G Gully	IR Iron Railings
GC Gas Cock	Pal Palisade Fence
GV Gas Valve	P/R Post & Rail Fence
IC Inspection Cover	P/W Post & Wire Fence
KD Kerb Outlet	Ret Retaining Wall
MH Manhole	St Stone Wall
RE Rodding Eye	
SC Stop Cock	
SV Stop Valve	
SW Storm Water	
TV Cable Television Cover	
UL Up Lighter	
UTL Unable to Lift	
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Ground Surface Types	Street Furniture
Asp Asphalt	B Bollard
B/P Brick Pavers	BB Bellisha Beacon
Conc. Concrete	DP Down Pipe
Plav. Concrete Paving	EP Electricity Pole
Tac. Tactile Paving	FB Flower Bed
	JB Junction Box
	LP Lamp Post
	MP Marker Post
	P Post
	PS Road Sign
	RWP Rain Water Pipe
	SF Sign Post
	SP Sign Post
	SVV Soil Vent Pipe
	TL Traffic Light
	TP Telegraph Pole
	VP Vent Pipe

Measurement Descriptions

CL	Cover Level
d	Depth (m)
dia	Diameter (mm)
FFL	Finished Floor Level
h	Feature Height (m)
IL	Invert Level
SL	Sump Level
Soil	Soil Level
WL	Water Level

Linetypes & Symbols

—	Banks	—	Benking
—	Buildings	—	Flow Direction
—	Building Overhead	—	Gate
—	Change of Surface	—	Survey Station
—	Fences	—	Tree
—	Kerbs	—	
—	Overhead Cables	—	
—	Ridges & Eaves	—	
—	Steps	—	
—	Walls	—	
—	Vegetation	—	
—	Tree Canopy	—	
—	Combined Water	—	
—	Foul Water	—	
—	Storm Water	—	

Sheet Layout

Rev.	Date	Drawn	Details

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W: gwaliasurveyors.co.uk

LAND | UTILITIES | BUILDING | BOUNDARY | BIM

Title: **Topographical Survey**

Project: **Llangatwg Community School**

Client: **Morgan Sindall**

Drawn: NJ/CU	Checked: DR
Date: 30-04-2025	Scale: 1:100 @ A0
Drawing Number: 3387-1-T-02	Rev: -

Coordinate System

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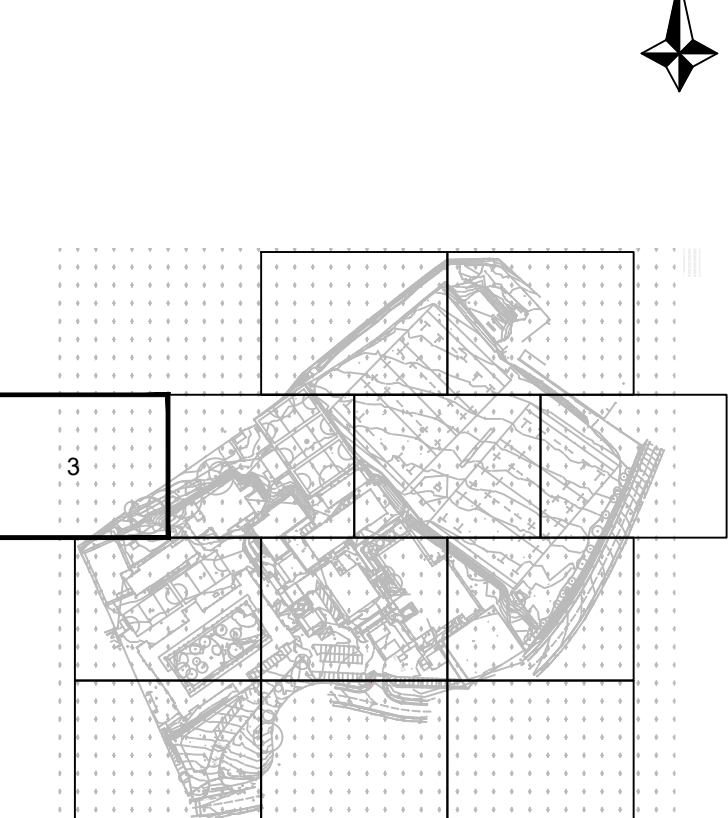
Key to Abbreviations

[illegible]

Linetypes & Symbols

	Banks		Banking
	Buildings		Flow Direction
	Building Overhead		Gate
	Change of Surface		Survey Station
	Fences		Tree
	Kerbs		
	Overhead Cables		
	Ridges & Eaves		
	Steps		
	Walls		
	Vegetation		
	Tree Canopy		
	Combined Water		
	Foul Water		
	Storm Water		

Sheet Layout



Rev.	Date	Drawn	Details
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Title: Topographical Survey

Project: Llangatwg Community School

Client: **Morgan Sindall**

Drawn: NJ/CU	Checked: DR
Date: 30-04-2025	Scale: 1:100 @ A0
Drawing Number: 3387-1-T-03	Rev. -

Coordinate System

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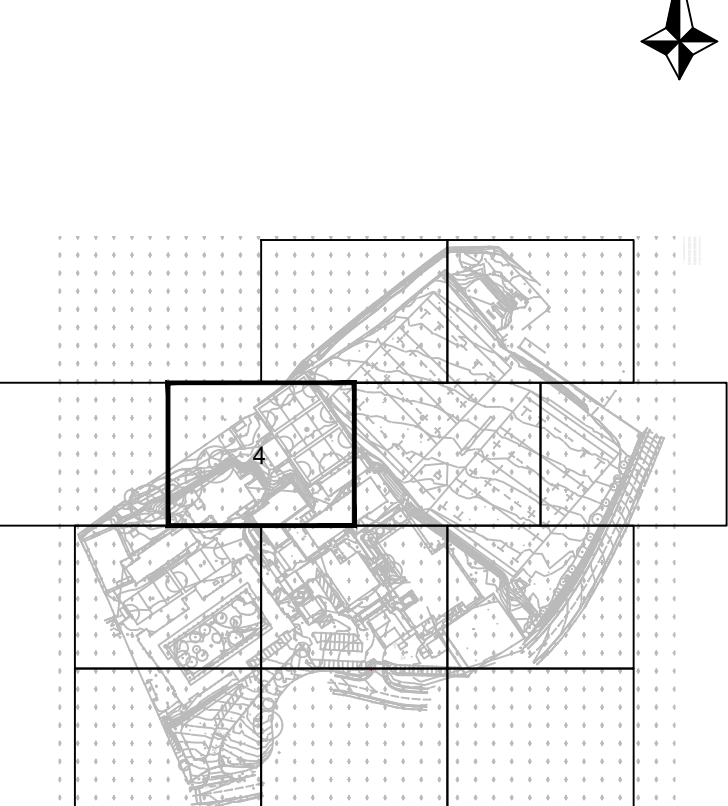
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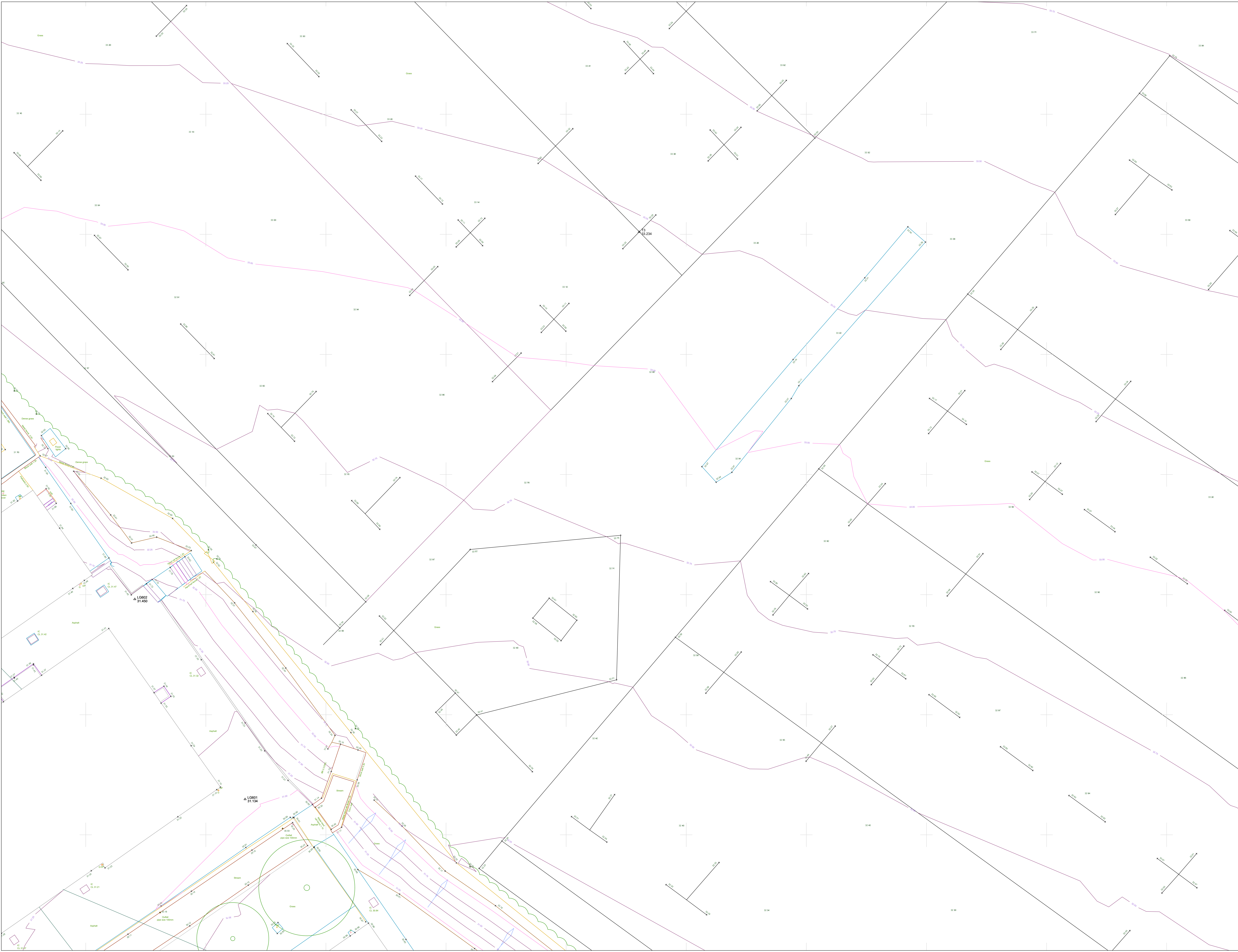
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Linetypes & Symbols

	Banks		Banking
	Buildings		Flow Direction
	Building Overhead		Gate
	Change of Surface		Survey Station
	Fences		Tree
	Kerbs		
	Overhead Cables		
	Ridges & Eaves		
	Steps		
	Walls		
	Vegetation		
	Tree Canopy		
	Combined Water		
	Foul Water		
	Storm Water		

Sheet Layout N

Title: Topographical Survey			
Project: Llangatwg Community School			
Client: Morgan Sindall			
Drawn: NJ/CU		Checked: DR	
Date: 30-04-2025		Scale: 1:100 @ A0	
Drawing Number: 3387-1-T-04			Rev. -



Coordinate System

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AV Air Valve	BL Block Wall
BH Baseline	BS Brick Wall
BT British Telecom Cover	BW Barbed Wire Fence
CCP Cable Drive Pit	CB Close Boarded Fence
CV Combined Water	CI Corrugated Iron Fence
Ch Ch. Drainage Channel	CL Chain Link Fence
Elec. Electric Inspection Cover	CIP Concrete Post
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FI Fire Hydrant	HR Hand Rail
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G Gully	Pal Palisade Fence
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MH Manhole	
RE Rodding Eye	
SC Stop Cock	
SV Storm Valve	
TV Cable Television Cover	
UL Up-lifter	
UTL Unable to Lift	
WM Water Motor	
WO Washout	

Ground Surface Types

Asp Asphalt	BB Bollard
B/BP Block Pavers	BB Bollard Beacon
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	PS Post Box
	RS Road Sign
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	SVF Soil Vent Pipe
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Measurement Descriptions

CL Cover Level
d Depth (m)
dia Diameter (mm)
FFL Finished Floor Level
h Feature Height (m)
IL Invert Level
SL Sump Level
Soft. Soffit Level
WL Water Level

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— Buildings	— Flow Direction
— Building Overhead	— Gate
— Change of Surface	— Survey Station
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— Kerbs	
— Overhead Cables	
— Ridges & Eaves	
— Steps	
— Walls	
— Vegetation	
— Tree Canopy	
— Combined Water	
— Foul Water	
— Storm Water	

Sheet Layout

Rev.	Date	Drawn	Details

Gwalia SURVEYORS

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www.gwaliasurveyors.co.uk

LAND | UTILITIES | BUILDING | BOUNDARY | BIM

Title: Topographical Survey

Project: Liangatwg Community School

Client: Morgan Sindall

Drawn: NJ/CU	Checked: DR
Date: 30-04-2025	Scale: 1:100 @ A0
Drawing Number: 3387-1-T-05	Rev: -



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GV Gas Valve	PW Post & Wire Fence
IC Inspection Cover	Ret Retaining Wall
KD Kerb Outlet	St Stone Wall
MH Manhole	
RE Rodding Eye	Street Furniture
SC Stop Cock	B Bollard
SV Stop Valve	BB Bellisha Beacon
SW Storm Water	DP Down Pipe
TV Cable Television Cover	EP Electricity Pole
UL UpLifter	FB Flower Bed
UTL Unable to Lift	JB Junction Box
WM Water Motor	LP Lamp Post
WO Washout	MP Marker Post
	P Post
	PB Post Box
	RS Road Sign
	RWP Rain Water Pipe
	SP Sign Post
	SWF Sign Wall
	SVF Soil Vent Pipe
	TL Traffic Light
	TP Telegraph Pole
	VP Vent Pipe

Ground Surface Types

Asp Asphalt	RS Road Sign
B/P Brick Pavers	RWP Rain Water Pipe
Conc Concrete	SP Sign Post
Plav Pavement	SWF Sign Wall
Tac Tactile Paving	SVF Soil Vent Pipe
	TL Traffic Light
	TP Telegraph Pole
	VP Vent Pipe

Measurement Descriptions

CL Cover Level	
d Depth (m)	
dia Diameter (mm)	
FFL Finished Floor Level	
h Feature Height (m)	
IL Invert Level	
SL Sump Level	
Soft Soffit Level	
WL Water Level	

Linetypes & Symbols

— Banks	— Berking
— Buildings	— Flow Direction
— Building Overhead	— Gate
— Change of Surface	— Survey Station
— Fences	— Tree
— Kerbs	
— Overhead Cables	
— Ridges & Eaves	
— Steps	
— Walls	
— Vegetation	
— Tree Canopy	
— Combined Water	
— Foul Water	
— Storm Water	

Sheet Layout

Rev.	Date	Drawn	Details

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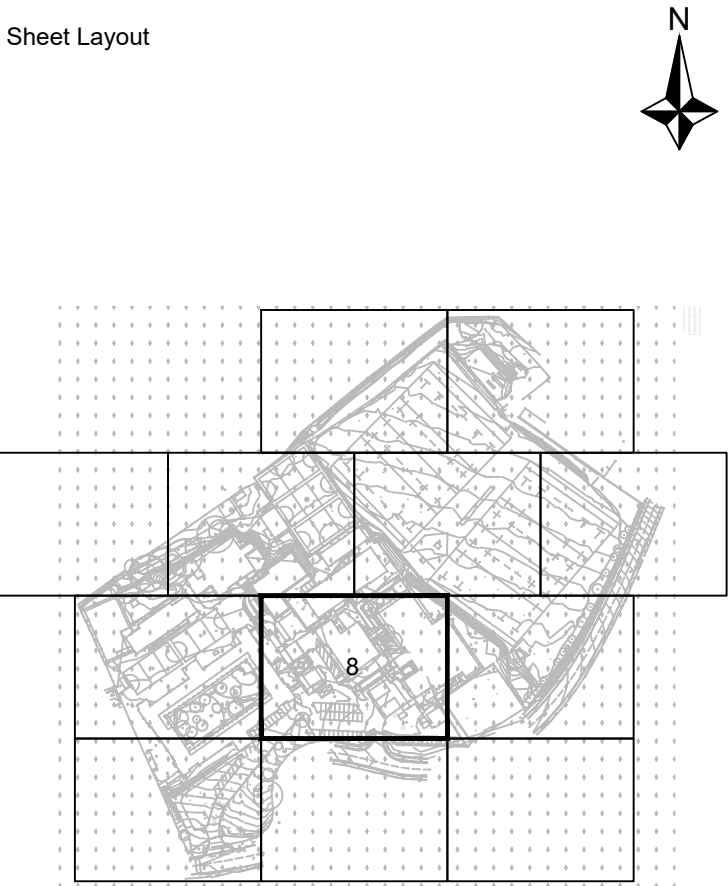
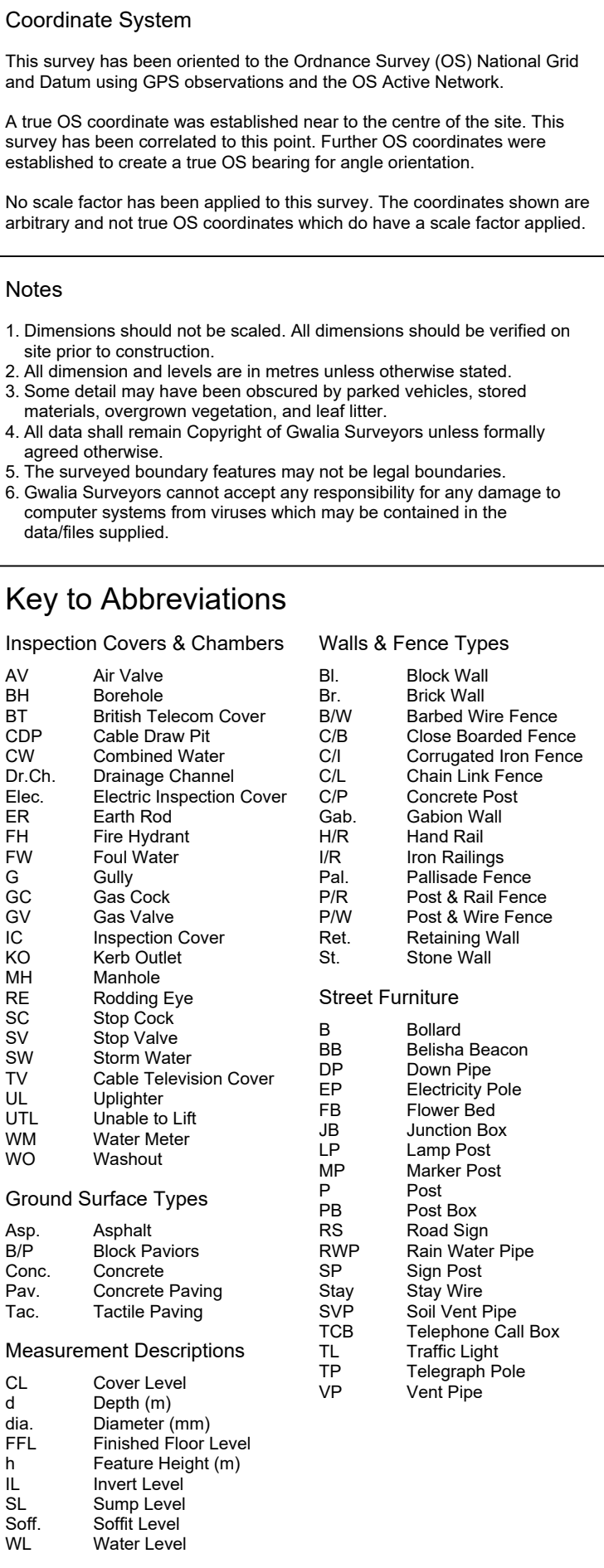
LAND | UTILITIES | BUILDING | BOUNDARY | BIM

Title:
Topographical Survey

Project:
Llangatwg Community School

Client:
Morgan Sindall

Drawn: NJ/CU	Checked: DR
Date: 30-04-2025	Scale: 1:100 @ A0
Drawing Number: 3387-1-T-06	Rev: -



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LAND UTILITIES BUILDING BOUNDARY BIM			
Title: Topographical Survey			
Project: Llangatwg Community School			
Morgan Sindall			
Client:			
Drawn: NJ/CU	Checked: DR		
Date: 30-04/2025	Scale: 1:100 @ A0		
Drawing Number: 3387-1-T-08			Rev: -



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Linetypes & Symbols

—	Banks	→	Banking
—	Buildings	→	Flow Direction
—	Building Overhead	→	Gate
—	Change of Surface	→	Survey Station
—	Fences	→	Tree
—	Kerbs	→	
—	Overhead Cables	→	
—	Ridges & Eaves	→	
—	Steps	→	
—	Walls	→	
—	Vegetation	→	
—	Tree Canopy	→	
—	Combined Water	→	
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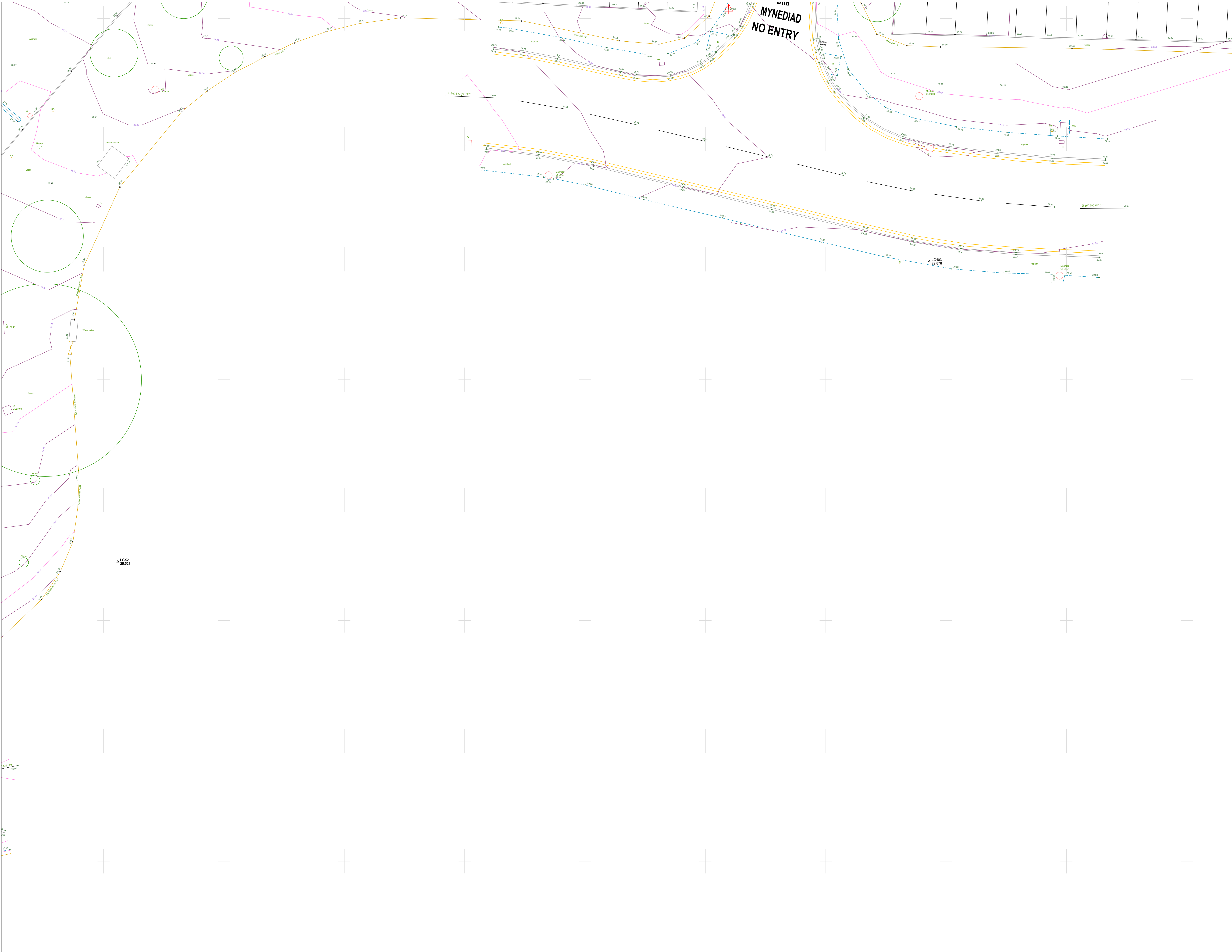
LAND | UTILITIES | BUILDING | BOUNDARY | BIM

Title
Topographical Survey

Project
Llangatwg Community School

Client
Morgan Sindall

Drawn: NJ/CU	Checked: DR
Date: 30-04-2025	Scale: 1:100 @ A0
Drawing Number: 3387-1-T-10	Rev: -



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	TL Telephone Call Box
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Suff.	Suffit Level
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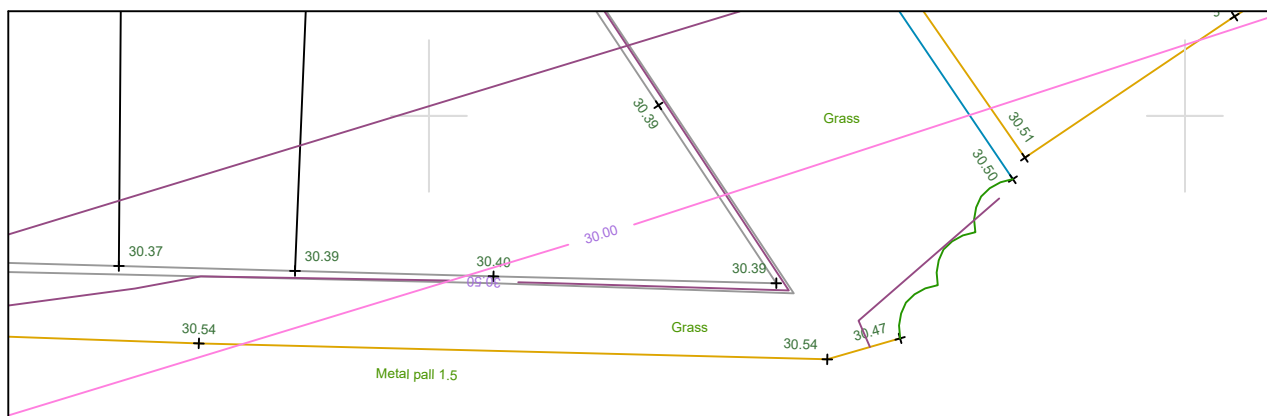
LAND | UTILITIES | BUILDING | BOUNDARY | BIM

Title: **Topographical Survey**

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Client: **Morgan Sindall**

Drawn: NJ/CU	Checked: DR
Date: 30-04-2025	Scale: 1:100 @ A0
Drawing Number: 3387-1-T-11	Rev: -



A LG404
30.417

Coordinate System

This survey has been oriented to the Ordnance Survey (OS) National Grid and Datum using GPS observations and the OS Active Network.

A true OS coordinate was established near to the centre of the site. This survey has been converted to this point. Further OS coordinates were established to create a true OS bearing for angle orientation.

No scale factor has been applied to this survey. The coordinates shown are arbitrary and not true OS coordinates which do have a scale factor applied.

Notes

1. Dimensions should not be scaled. All dimensions should be verified on site prior to construction.
2. All dimension and levels are in metres unless otherwise stated.
3. Some detail may have been obscured by parked vehicles, stored material, overgrown vegetation, and leaf litter.
4. All data shall remain Copyright of Gwalia Surveyors unless formally agreed otherwise.
5. The surveyed boundary features may not be legal boundaries.
6. Gwalia Surveyors cannot accept any responsibility for any damage to computer systems from viruses which may be contained in the datafiles supplied.

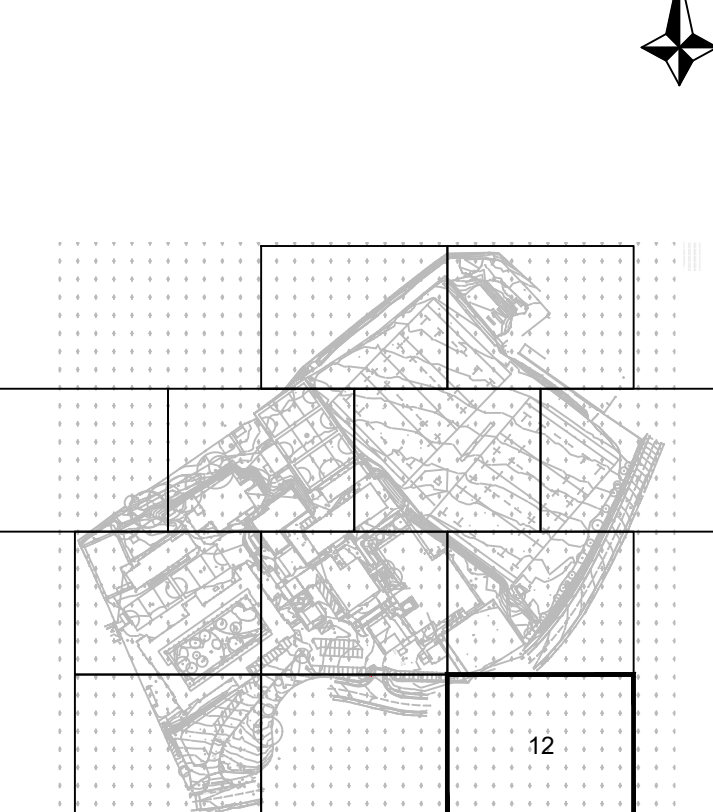
Key to Abbreviations

Inspection Covers & Chambers	Walls & Fence Types
AV Air Valve	BL Block Wall
BH Baseline	BR Brick Wall
BT British Telecom Cover	BWF Barbed Wire Fence
CCP Cable Drive Pit	CB Close Boarded Fence
CV Combined Water	CI Corrugated Iron Fence
Dr Ch. Drainage Channel	CL Chain Link Fence
Elec. Electric Inspection Cover	C/P Concrete Post
ER Earth Rod	Gal. Galvanised Wall
FI Fire Hydrant	HR Hand Rail
FW Foul Water	IR Iron Railings
G Gully	Pal Palisade Fence
GC Gas Cock	P/R Post & Rail Fence
GV Gas Valve	P/W Post & Wire Fence
IC Inspection Cover	Ret Retaining Wall
KD Kerb Outlet	St Stone Wall
MH Manhole	
RE Rodding Eye	Street Furniture
SC Stop Cock	B Bollard
SV Stop Valve	BB Bellisha Beacon
SW Storm Water	DP Down Pipe
TV Cable Television Cover	EP Electricity Pole
UL Up-lifter	FB Flower Bed
UTL Unable to Lift	JB Junction Box
WM Water Motor	LP Lamp Post
WO Washout	MP Marker Post
	P Post
Ground Surface Types	PB Post Box
Asp Asphalt	RS Road Sign
B/P Block Pavers	RWP Rain Water Pipe
Conc. Concrete	SF Sign Post
Pav. Concrete Paving	SP Sign Post
Tac. Tactile Paving	Stay Stay
	SVF Soil Vent Pipe
	TL Traffic Light
	TP Telegraph Pole
	VP Vent Pipe
Measurement Descriptions	
CL Cover Level	
d Depth (m)	
d/a Diameter (mm)	
FFL Finished Floor Level	
h Feature Height (m)	
IL Invert Level	
SL Sump Level	
Soil. Soffit Level	
WL Water Level	

Linetypes & Symbols

—	Banks	→	Banking
—	Buildings	→	Flow Direction
—	Building Overhead	→	Gate
—	Change of Surface	→	Survey Station
—	Fences	→	Tree
—	Kerbs		
—	Overhead Cables		
—	Ridges & Eaves		
—	Steps		
—	Walls		
—	Vegetation		
—	Tree Canopy		
—	Combined Water		
—	Foul Water		
—	Storm Water		

Sheet Layout





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LAND | UTILITIES | BUILDING | BOUNDARY | BIM

Title:Topographical Survey

Project:Llangatwg Community School

Client:Morgan Sindall

Drawn:NJ/CU

Checked:DR

Date:30-04-2025

Scale:1:100 @ A0

Drawing Number:3387-1-T-12

Rev:-

