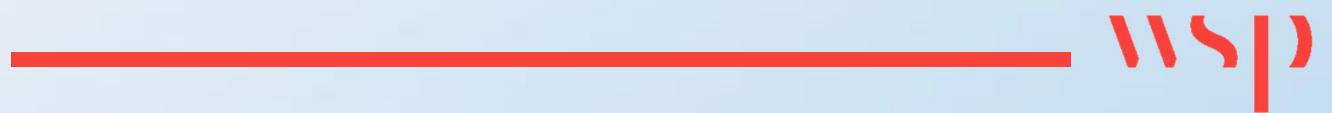


Appendix A

TOPOGRAPHIC SURVEY



Survey Notes	
Grid:	Local, plane metric related to OS grid
Levels:	OS datum from GNSS positioning, converted using the National Geoid model OSGM15

Notes

Unable to locate BT line

Topographical Survey Legend

[illegible]

Sheet Index

Rev.	Date	Description
A	Aug 2019	Additional areas surveyed
B	Sep 2019	Route of underground gas line & additional topographical survey added.
C	Oct 2019	Additional topographical survey added.

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Accreditations

 **RICS**

 **THE SURVEY
ASSOCIATION**

 **ICES**

 **FISMA**

 **ISO 9001**

 **ISO 14001**

Client

WSP UK LTD
THE VICTORIA, 150-182 THE QUAYS
SALFORD, M50 3SP

Project

OMEGA WEST
ST HELENS

Drawing Title

Topographical Survey

Sheet 1

Drawn By	AS	05/04/19	Survey Date	March 2019
Checked by	ED	05/04/19	Scale	1:500 @ A0
Drawing No				Revision
52187_01				C



Survey Notes

Grid: Local, plane metric related to OS grid
Levels: OS datum from GNSS positioning, converted using the National Grid model OSGM15

Notes

Unable to locate BT line.

Topographical Survey Legend

BUILDINGS AND WALLS

Building

Roof

Passage

Wall with height

Retaining Wall

Roof

Roof

Roof

Roof

Roof

POWER LINES

Power Line

Power Line

Power Line

Power Line

Power Line

Power Line

Power Line

Power Line

Power Line

Power Line

ROADS

Edge of Footpath

Footpath

Footpath

Footpath

Footpath

Footpath

Footpath

Footpath

Footpath

Footpath

STREET FURNITURE

Bus Stop

Bus Stop

Bus Stop

Bus Stop

Bus Stop

Bus Stop

Bus Stop

Bus Stop

Bus Stop

Bus Stop

GENERAL INFORMATION

Electricity Pylon

Electricity Pylon

Electricity Pylon

Electricity Pylon

Electricity Pylon

Electricity Pylon

Electricity Pylon

Electricity Pylon

Electricity Pylon

Electricity Pylon

WATER FEATURES

Canal

Canal

Canal

Canal

Canal

Canal

Canal

Canal

Canal

Canal

RULES AND VEGETATION

Hedge

Hedge

Hedge

Hedge

Hedge

Hedge

Hedge

Hedge

Hedge

Hedge

LEVELS AND HEIGHT INFORMATION

Intermediate Spot Height

Intermediate Spot Height

Intermediate Spot Height

Intermediate Spot Height

Intermediate Spot Height

Intermediate Spot Height

Intermediate Spot Height

Intermediate Spot Height

Intermediate Spot Height

Intermediate Spot Height

SURVEY INFORMATION SIGNS

Permanent Ground Marker

Permanent Ground Marker

Permanent Ground Marker

Permanent Ground Marker

Permanent Ground Marker

Permanent Ground Marker

Permanent Ground Marker

Permanent Ground Marker

Permanent Ground Marker

Permanent Ground Marker

GEOTECHNICAL INFORMATION

Soil Profile

Soil Profile

Soil Profile

Soil Profile

Soil Profile

Soil Profile

Soil Profile

Soil Profile

Soil Profile

Soil Profile

Sheet Index

52187_01_01

52187_01_02

52187_01_03

52187_01_04

52187_01_05

52187_01_06

52187_01_07

Rev.

Date

Description

A

Aug 2018

Additional areas surveyed

B

Sep 2018

Route of underground gas line & additional topographical survey added

C

Oct 2018

Additional topographical survey added

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RICS

RICS

RICS

Client

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Project

OMEGA WEST

ST HELENS

Drawing Title

Topographical Survey

Sheet 3

Drawn By

AS

05/04/19

Survey Date

March 2019

Checked By

ED

05/04/19

Scale

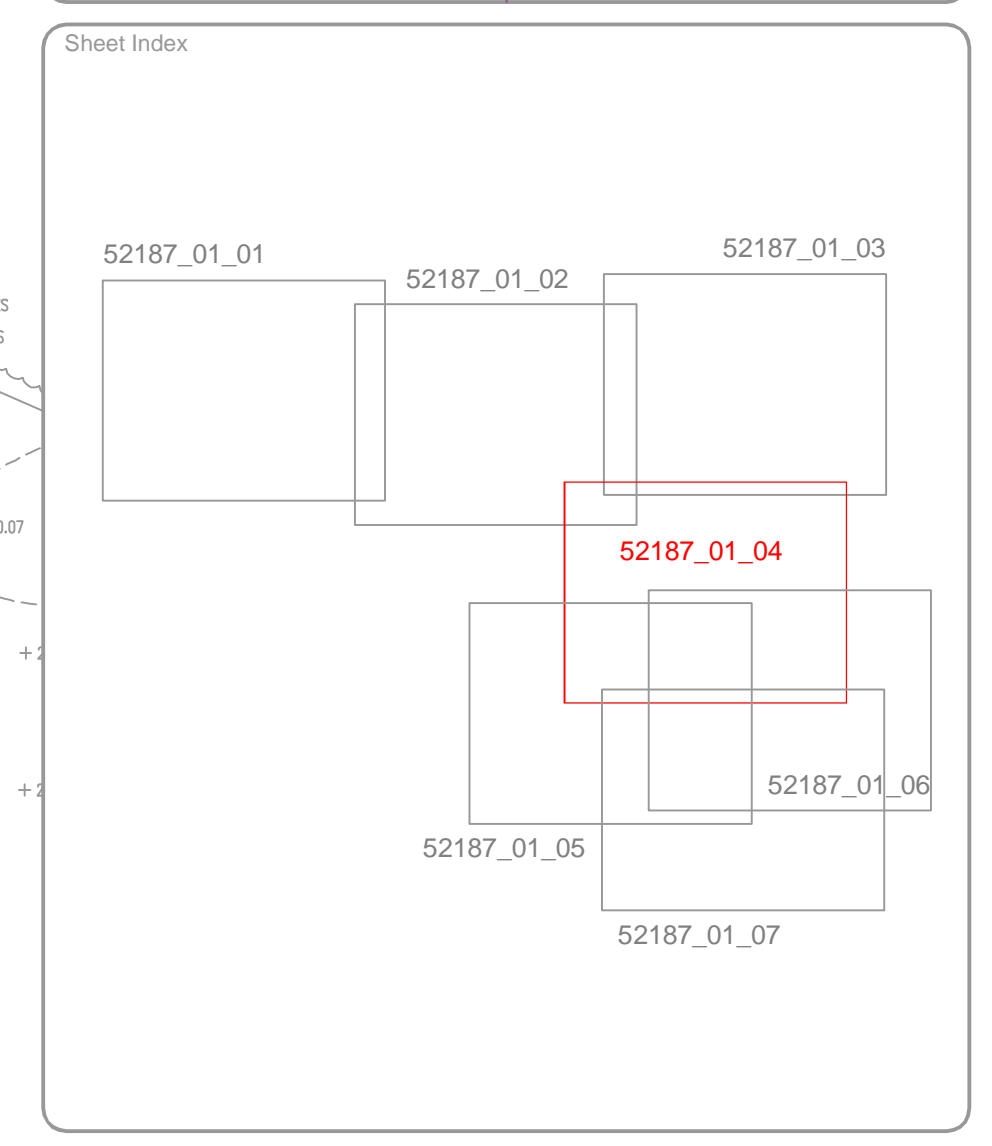
1:500 @ A0

Drawing No

52187_01

Format

C

[illegible]

Rev.	Date	Description
A	Aug 2019	Additional areas surveyed
B	Sep 2019	Route of underground gas line & additional topographical survey added.
C	Oct 2019	Additional topographical survey added.



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20.42	Project	OMEGA WEST ST HELENS
-------	---------	-------------------------

Drawing Title


Topographical Survey

<h2 style="margin: 0;">Sheet 4</h2>			
+ 20	Drawn By	AS	05/04/19
	Checked by	ED	05/04/19
	Survey Date	March 2019	
	Scale	1:500 @ A0	
+ 24	Drawing No		
	52187_01		
	Revision		
	C		

<

Diagram illustrating the relationship between various survey sheets (52187_01_01 through 52187_01_08) and their corresponding descriptions. The sheets are represented as overlapping rectangles, indicating that some sheets cover areas previously surveyed by others. A red rectangle highlights the area covered by 52187_01_04 and 52187_01_06.



Rev.	Date	Description
A	Aug 2019	Additional areas surveyed
B	Sep 2019	Route of underground gas line & additional topographical survey added.
C	Oct 2019	Additional topographical survey added.




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Project

OMEGA WEST
ST HELENS

Drawing Title			
Topographical Survey			
Sheet 6			
Drawn By AS		05/04/19	
Checked by ED		05/04/19	
Survey Date		March 2019	
Scale		1:500 @ A0	
Drawing No			Revision
52187_01			C

Survey Notes







Grid:	Local, plane metric related to OS grid
Levels:	OS datum from GNSS positioning, converted using the National Geoid model OSGM15

Notes




Topographical Survey Legend

[illegible]

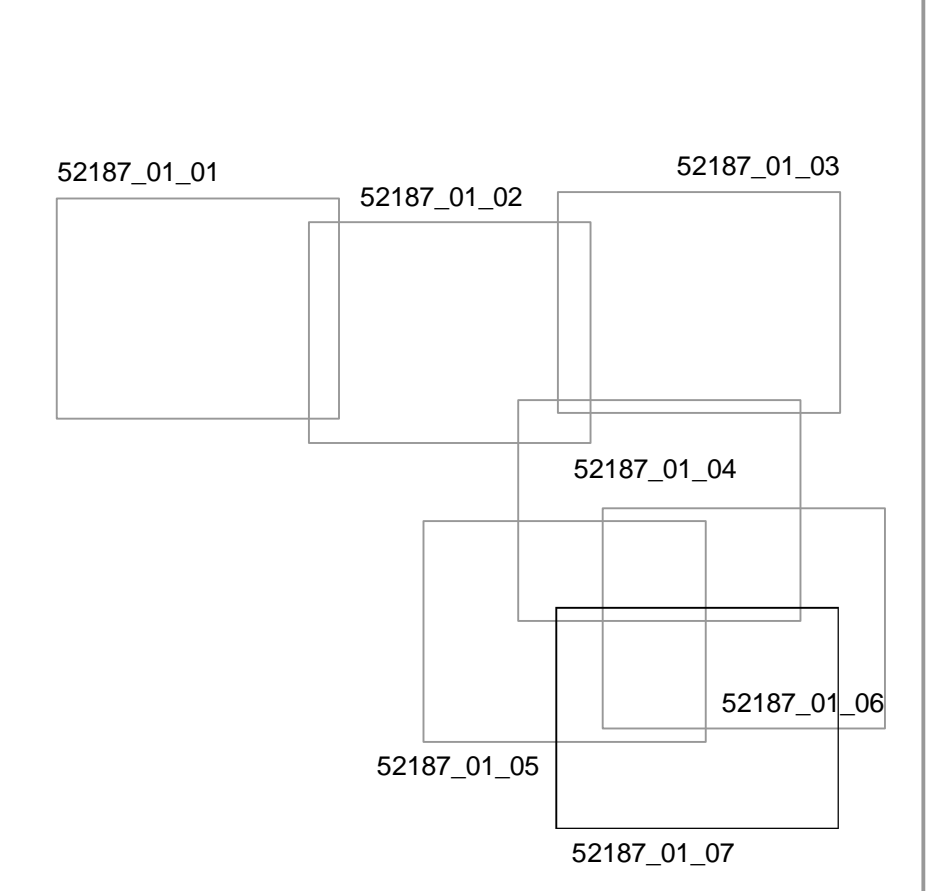
Reflex Beacon	=	DB	
Red Ship	=	BS	
Rock	=	RO	
Cobra Eye	=	CE	
Orange	=	OR	
Coast Circuit TV	=	CCV	
Drain	=	DR	
Electricity Pole	=	EP	
Flood Light	=	FL	
Flag Staff	=	FS	
Flag Post	=	FP	
Letter Box	=	LB	
Home Plate (Baseball)	=	HP	
Home Run King	=	HRK	
Wire Post or Mounting Post	=	WP	
Service Monitor	=	MS	
Wire Stone	=	WS	
Post	=	P	

Hedge	
Edge of wood/brush	
Stump	 STUMP
Individual Tree	
Stops with height Greater than 1m	
Cliff Face	
Mound	
Reeds	

[illegible]

Sol Pipe	= SW	 Permanent Ground Marker  O.S. Trig Station  O.S. Bench Mark
Gas Pipe	= G-RPE	
Uncle to RI cover	UTL	
Stop Tap	= ST	
Stop Valve	= SV	
Lamp/pipe	= LH	
Hydrant	= HD	
Earth Rod	= ER	
Gas Valve	= OV	
Water Meter	= WM	
Manhole	= HO	
Stack/pipe	= PE	

GEO-TECHNICAL INFORMATION	
Borehole	DH
Test Pit	TP
Monitor Pit	MCN
Probe Hole	PH
Window Sample	WS



Rev.	Date	Description
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B	Sep 2019	Route of underground gas line & additional topographical survey added.
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Project

OMEGA WEST
ST HELENS

Drawing Title

Topographical Survey

Sheet 7

Drawn By AS	05/04/19	Survey Date March 2019
Checked by ED	05/04/19	Scale 1:500 @ A0
Drawing No 52187_01		Revision C