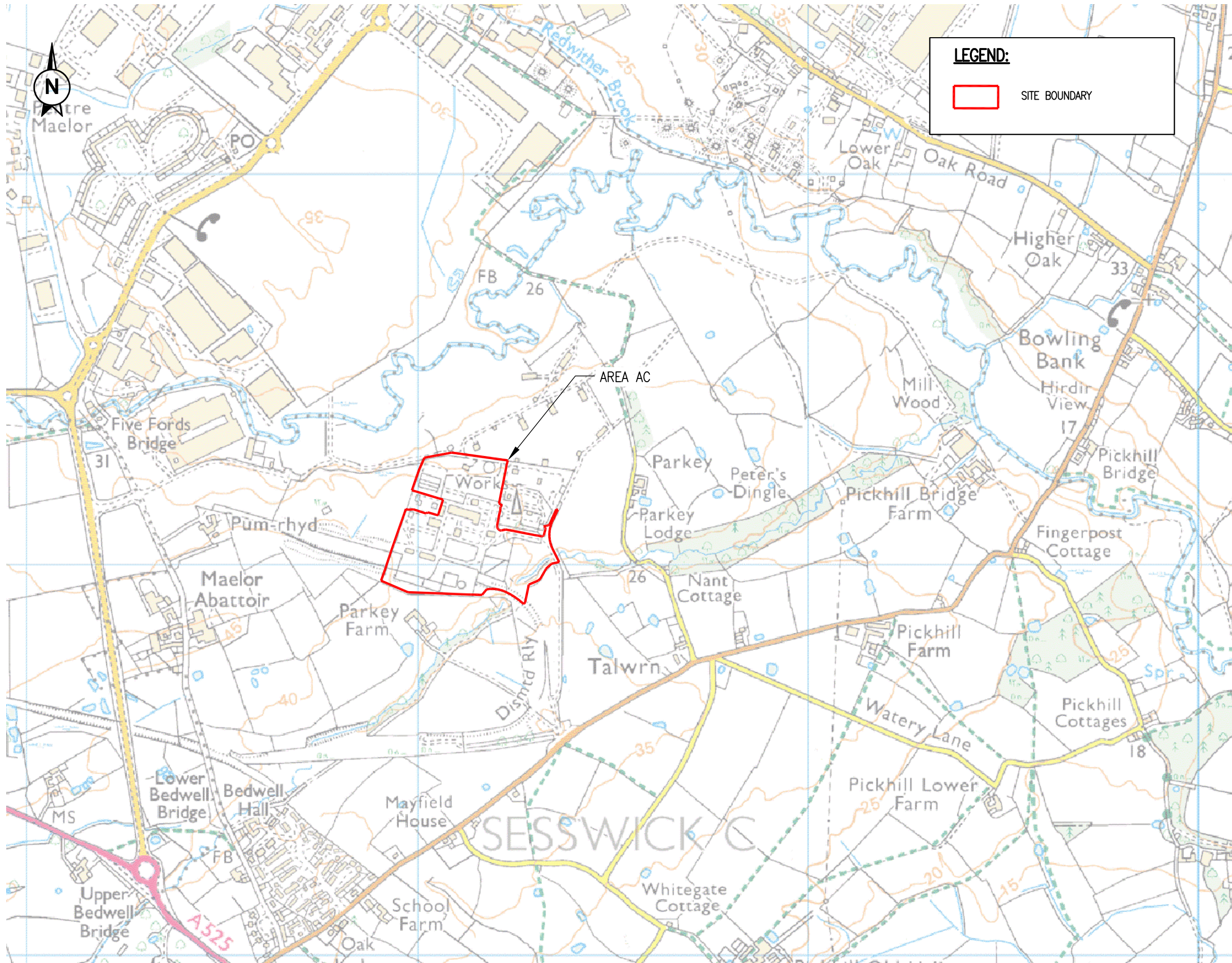


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LEGEND:

SITE BOUNDARY



SITE LOCATION PLAN

NTS

GENERAL NOTES:

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RESIDUAL RISK REGISTER

IN ADDITION TO THE HAZARDS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING :

IDENTIFIED RISK / HAZARD	DESCRIPTION

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT PERSON WORKING, TO AN APPROVED SAFE SYSTEM OF WORK

STATUS

FOR INFORMATION

0	23.05.14	CJB	MS	ISSUED FOR INFORMATION
REV	DATE	BY	CHKD	DESCRIPTION



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Tel: +44 (0)141 2255110
Fax: +44 (0)141 2214107
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www.ikmconsulting.co.uk

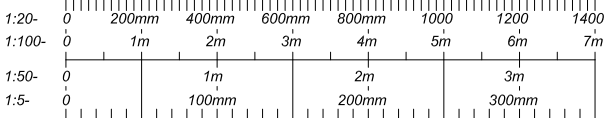
CLIENT **I&H BROWN**

PROJECT **NATIONAL GRID WREXHAM GASWORKS**

DRAWING **SITE LOCATION PLAN - AREA AC**

DRAWING No. **A3-13627-3057** REV **0**

SITE LOCATION PLAN – AREA AC
SCALE 1:10000



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LEGEND:

- NATIONAL GRID PROPERTY HOLDINGS LTD BOUNDARY
- WALES & WEST UTILITIES BOUNDARIES
- CURRENT STRUCTURES
- FENCELINE

WORLEY PARSONS

SITE INVESTIGATION LOCATIONS 2011:

- TP11-01 TRIAL PITS
- MW11-01 MONITORING WELL LOCATION
- MW11-03 SHALLOW SAMPLE FROM VACUUM EXCAVATION (MONITORING WELL NOT INSTALLED)
- SW11-01 DRAINAGE SAMPLE LOCATION (APPROX.)

FORMER SITE INVESTIGATION LOCATIONS:

- TP99-106 KOMEX TRIAL PIT (1999)
- MW99-204 KOMEX MONITORING WELL (1999)
- MW2 KOMEX MONITORING WELL (1995)
- TP2 KOMEX TRIAL PIT (1995)

IKM SITE INVESTIGATION LOCATIONS 2013:

- GROUND WATER SAMPLING EXISTING WELL
- NORTHERN DISCHARGE SURFACE WATER SAMPLING
- SEDIMENT SAMPLING
- SPENT OXIDE "LOOK-SEE" TRIAL PITS
- TRIAL PITS
- BOREHOLES
- SURFACE WATER / STREAM OUTFALL SAMPLING
- DRAINAGE WATER SAMPLING / INSPECTION

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IDENTIFIED RISK / HAZARD	DESCRIPTION
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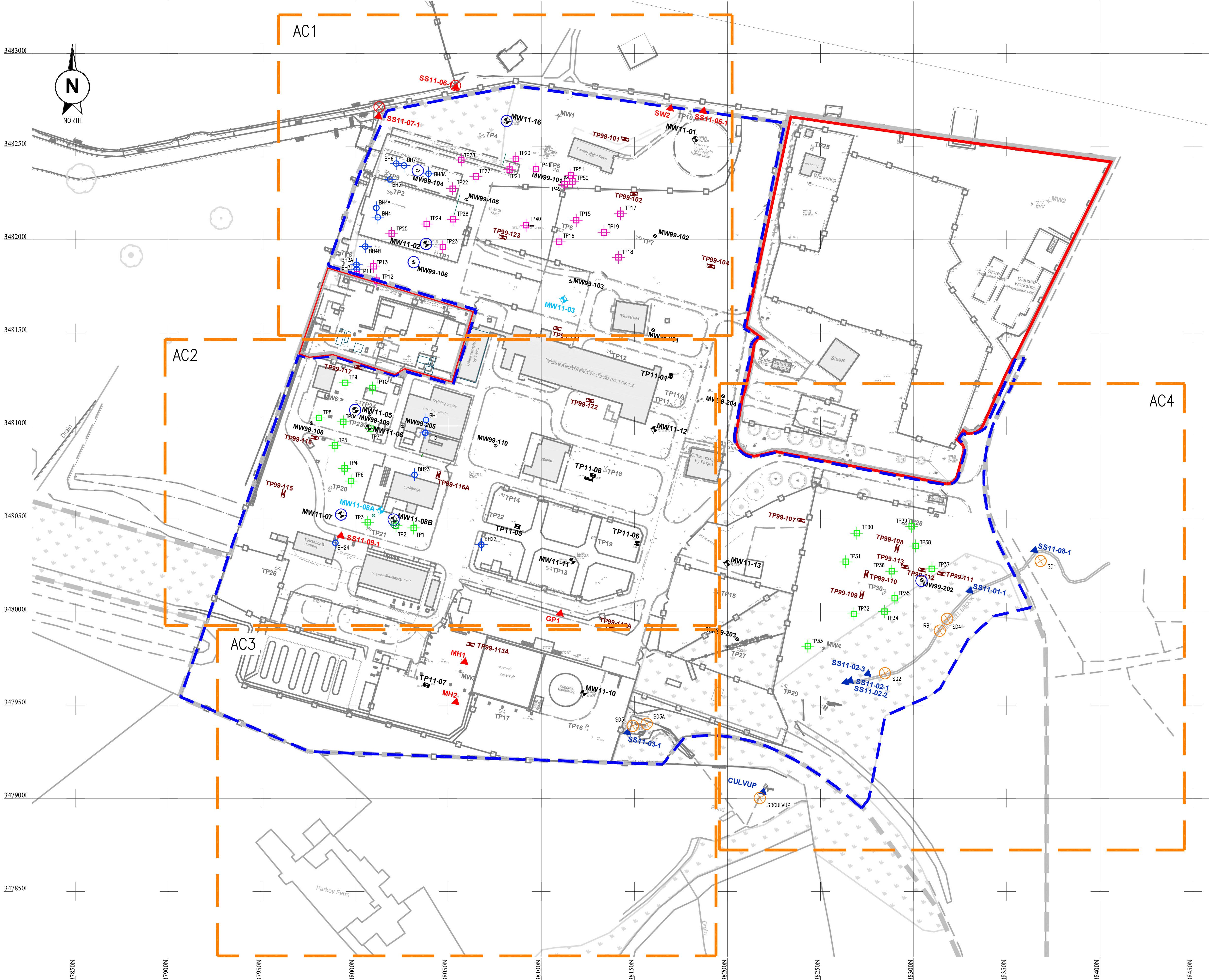
CLIENT I & H BROWN

PROJECT MAELOR WORKS WREXHAM

DRAWING TILE LAYOUT PLAN - AREA AC

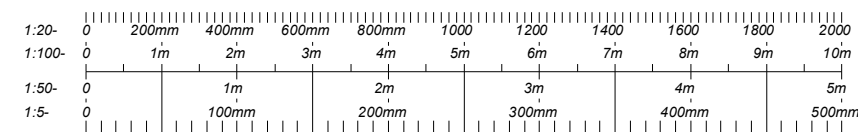
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REV 0



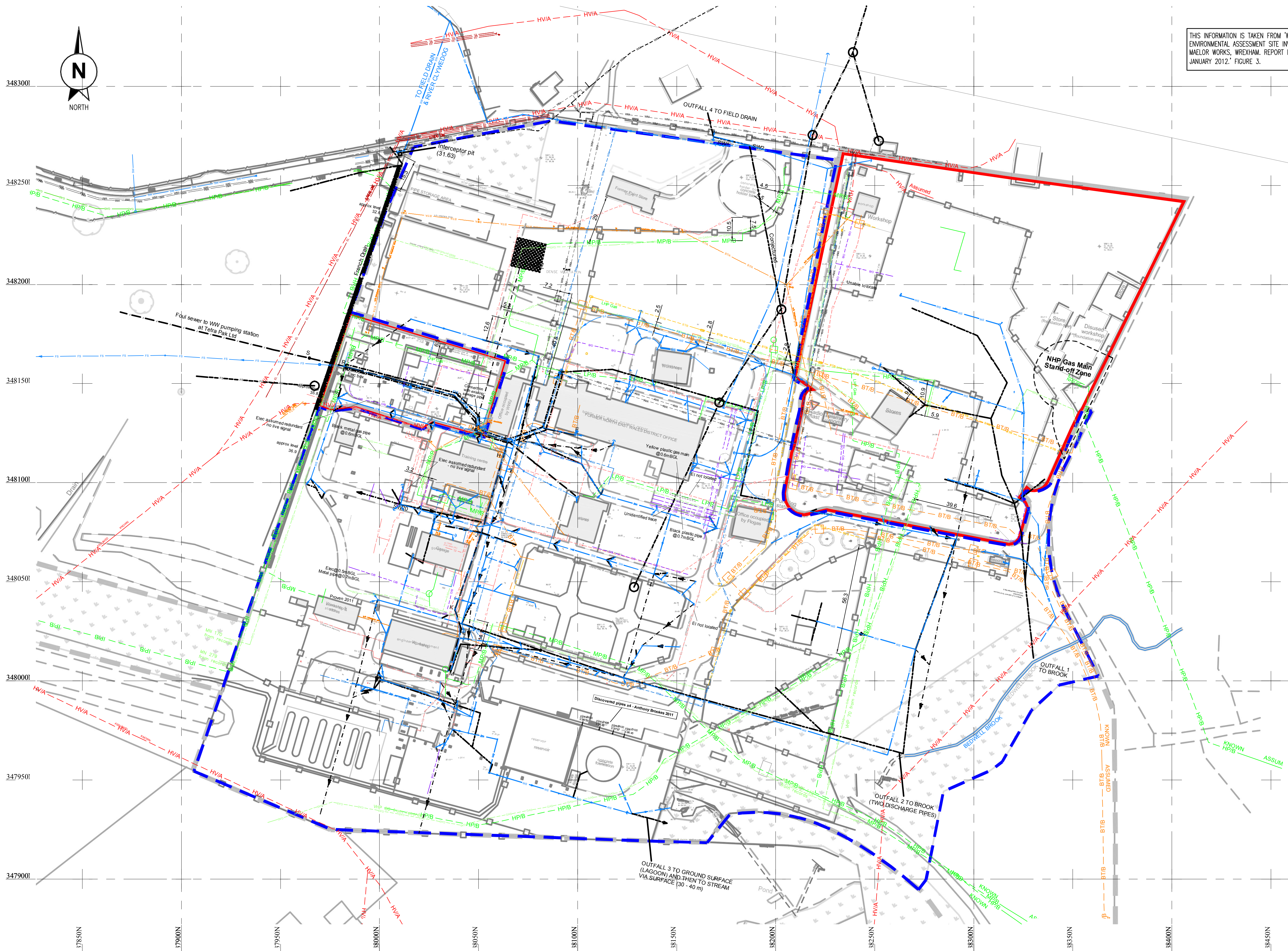
TILE LAYOUT PLAN - AREA AC
SCALE 1:1000

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THIS INFORMATION IS TAKEN FROM 'WORLEY PARSONS - ENVIRONMENTAL ASSESSMENT SITE INVESTIGATION REPORT, MAELOR WORKS, WREXHAM, REPORT NO. 50065-29, JANUARY 2012.' FIGURE 3.

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LEGEND:

- NATIONAL GRID PROPERTY HOLDINGS LTD BOUNDARY
- WALES & WEST UTILITIES BOUNDARIES
- CURRENT STRUCTURES
- FENCELINE

Site Drainage*

- Storm Water Drainage (SW20 denotes manhole number in survey)
- Foul Sewer (letter denotes manhole number in survey)

* Information taken from Drainage Survey carried out by Drain Doctor (1999), detailed in Komex report no. 50055-6 (1999)

Services**

- Water Main
- Gas
- Electricity
- BT (Overhead)
- Foul Sewer
- Drainage

** Overlaid from Target Designs Services Survey, ref. 141-518-019B (2010)

Services***

- Water Main
- Gas (LP)
- Gas (MP)
- Gas (IP)
- Gas (LHP/NHP, as labelled)
- Distances (in m) as stated on NGG plan; not to scale
- Electricity (Overhead HV)
- BT (Underground)
- Gravity Sewer

*** Overlaid from servicesplans as listed:
SP Energy Electricity Serviceplan, 06/04/2011
National Grid Gas Serviceplan, 04/04/2011
Wales & West Utilities PLC Serviceplan, 15/03/2011
Dee Valley Water PLC Serviceplan, 28/03/2011
Welsh Water Serviceplan, 31/03/2011
BT Openreach Serviceplan, ref. GMY11200R, 15/03/2011

Services****

- Water Main
- Gas
- Electricity
- BT (Underground)
- Sewer/Drainage

**** Overlaid from servicesplans, ref. Komex 50055-6 (1999)

Services*****

- CAT Scan (Service type unknown)
- Service notes (2011) shown in magenta

***** Signal found by CAT & Genny, Service Location UK Ltd (2011)

RESIDUAL RISK REGISTER

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STATUS

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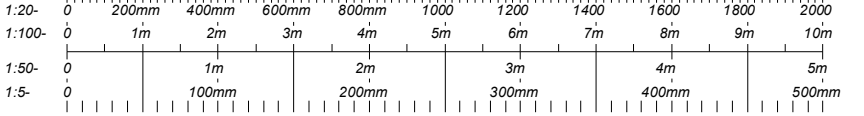


CLIENT	I & H BROWN
PROJECT	MAELOR WORKS WREXHAM
DRAWING	SERVICE LOCATION PLAN - AREA AC

DRAWING No.	A1-13627-3048	REV	0
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SERVICE LOCATION PLAN - AREA AC
SCALE 1:1000



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A1

EXPLORATORY HOLES LAYOUT PLAN – AC1
SCALE 1:500

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- WALES & WEST UTILITIES BOUNDARIES
- CURRENT STRUCTURES
- FENCELINE

WORLEY PARSONS
SITE INVESTIGATION LOCATIONS 2011:

- TP11-01 TRIAL PITS
- MW11-01 MONITORING WELL LOCATION
- MW11-03 SHALLOW SAMPLE FROM VACCUM EXCAVATION (MONITORING WELL NOT INSTALLED)

FORMER SITE INVESTIGATION LOCATIONS:

- TP99-106 KOMEX TRIAL PIT (1999)
- MW99-204 KOMEX MONITORING WELL (1999)
- MW2 KOMEX MONITORING WELL (1995)
- TP2 KOMEX TRIAL PIT (1995)

IKM SITE INVESTIGATION LOCATIONS 2013:

- GROUND WATER SAMPLING EXISTING WELL
- NORTHERN DISCHARGE SURFACE WATER SAMPLING
- SEDIMENT SAMPLING
- SPENT OXIDE "LOOK-SEE" TRIAL PITS
- TRIAL PITS
- BOREHOLES
- SURFACE WATER SAMPLING
- DRAINAGE WATER SAMPLING / INSPECTION

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FOR INFORMATION

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REV	DATE	BY	CHKD	DESCRIPTION



CLIENT I & H BROWN

PROJECT MAELOR WORKS
WREXHAM

DRAWING EXPLORATORY HOLES
LAYOUT PLAN - AC1

DRAWING No.

A1-13627-3018

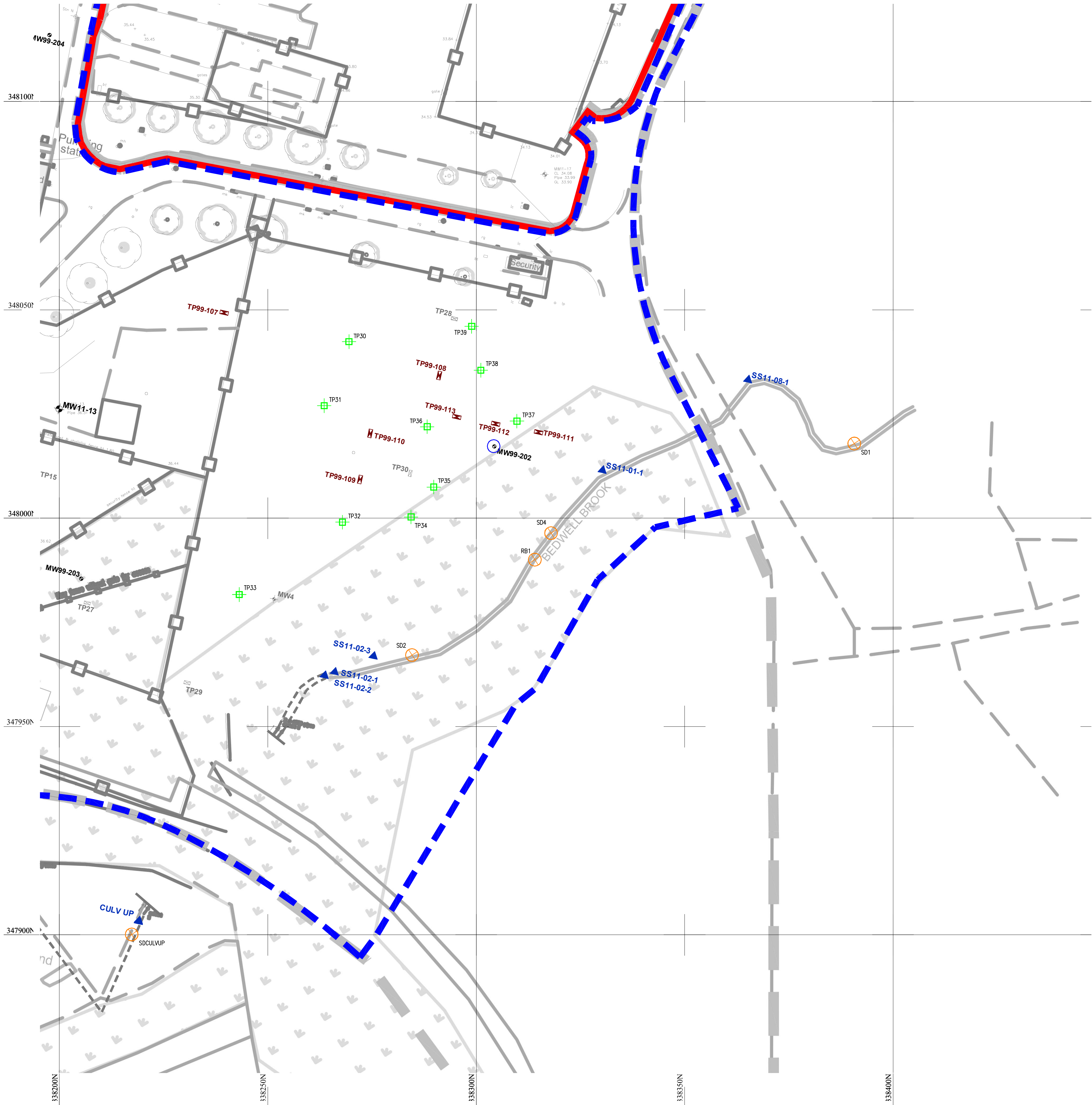
REV

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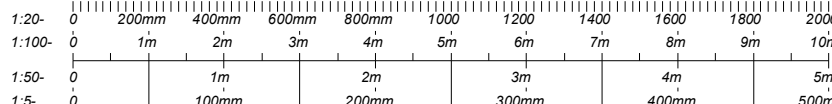
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EXPLORATORY HOLES LAYOUT PLAN – AC4
SCALE 1:500



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LEGEND:

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- WALES & WEST UTILITIES BOUNDARIES
- CURRENT STRUCTURES
- FENCELINE

WORLEY PARSONS

SITE INVESTIGATION LOCATIONS 2011:

- TP11-01 TRIAL PITS
- MW11-01 MONITORING WELL LOCATION
- MW11-03 SHALLOW SAMPLE FROM VACUUM EXCAVATION (MONITORING WELL NOT INSTALLED)
- SW11-01 DRAINAGE SAMPLE LOCATION (APPROX.)

FORMER SITE INVESTIGATION LOCATIONS:

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- MW99-204 KOMEX MONITORING WELL (1999)
- MW2 KOMEX MONITORING WELL (1995)
- TP2 KOMEX TRIAL PIT (1995)

IKM SITE INVESTIGATION LOCATIONS 2013:

- GROUND WATER SAMPLING EXISTING WELL
- ⊗ NORTHERN DISCHARGE SURFACE WATER SAMPLING
- ⊗ SEDIMENT SAMPLING
- ⊗ SPENT OXIDE "LOOK-SEE" TRIAL PITS
- ⊗ TRIAL PITS
- ⊗ BOREHOLES
- ▲ SURFACE WATER / STREAM OUTFALL SAMPLING
- ▲ DRAINAGE WATER SAMPLING

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CLIENT	I & H BROWN
PROJECT	MAELOR WORKS WREXHAM
DRAWING	EXPLORATORY HOLES LAYOUT PLAN - AC4

DRAWING No.	A1-13627-3021	REV	0
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- CURRENT STRUCTURES
- FENCELINE

WORLEY PARSONS

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- NORTHERN DISCHARGE SURFACE WATER SAMPLING
- SEDIMENT SAMPLING
- SPENT OXIDE "LOOK-SEE" TRIAL PITS
- TRIAL PITS
- BOREHOLES
- SURFACE WATER / STREAM OUTFALL SAMPLING
- DRAINAGE WATER SAMPLING / INSPECTION

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CLIENT I & H BROWN

PROJECT MAELOR WORKS WREXHAM

DRAWING EXPLORATORY HOLES LAYOUT PLAN - AREA AC

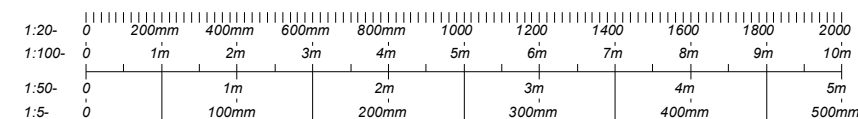
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EXPLORATORY HOLES LAYOUT PLAN - AREA AC
SCALE 1:1000



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EXPLORATORY HOLES LAYOUT PLAN – AC3
SCALE 1:500

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- CURRENT STRUCTURES
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WORLEY PARSONS
SITE INVESTIGATION LOCATIONS 2011:

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- TP2 KOMEX TRIAL PIT (1995)

IKM SITE INVESTIGATION LOCATIONS 2013:

- SEDIMENT SAMPLING
- SURFACE WATER / STREAM OUTFALL SAMPLING
- DRAINAGE WATER SAMPLING / INSPECTION

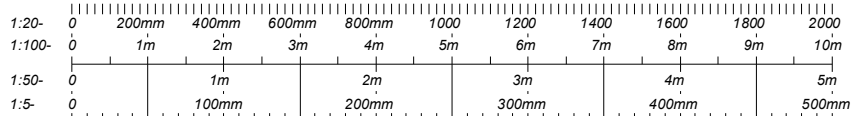
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REV	DATE BY CHKD DESCRIPTION

 	
CLIENT	I & H BROWN
PROJECT	MAELOR WORKS WREXHAM
DRAWING	EXPLORATORY HOLES LAYOUT PLAN - AC3

DRAWING No.	REV
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- CURRENT STRUCTURES
- FENCELINE

WORLEY PARSONS

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- SEDIMENT SAMPLING
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- TRIAL PITS
- BOREHOLES
- SURFACE WATER / STREAM OUTFALL SAMPLING
- DRAINAGE WATER SAMPLING
- STAINING
- HYDROCARBON ODOUR
- SPENT OXIDE
- HYDROCARBON SHEEN
- RED SEDIMENT

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REV	DATE	BY	CHKD	DESCRIPTION



CLIENT I & H BROWN

PROJECT MAELOR WORKS WREXHAM

DRAWING VISUAL CONTAMINATION - AC1

DRAWING No. A1-13627-3038 REV 0

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37900N

37950N

38000N

38050N

38100N

38150N

348300

348250

348200

348150

VISUAL CONTAMINATION - AC1
SCALE 1:500

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EXTERNAL REFERENCES: BELOW IS A LIST OF EXTERNALLY REFERENCED DRAWINGS REQUIRED TO VIEW AND PLOT THIS DRAWING.
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GENERAL NOTES:

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3. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE FULL COMPLIANCE WITH THE BUILDING REGULATIONS
4. DO NOT SCALE FROM THIS DRAWING, USE FIGURED DIMENSIONS AND SETTING OUT DETAILS FROM THE ARCHITECT
5. ALL DIMENSIONS ARE IN MILLIMETERS

LEGEND:

- NATIONAL GRID PROPERTY HOLDINGS LTD BOUNDARY
- WALES & WEST UTILITIES BOUNDARIES
- CURRENT STRUCTURES
- FENCELINE

WORLEY PARSONS
SITE INVESTIGATION LOCATIONS 2011:

- TP11-01 TRIAL PITS
- MW11-01 MONITORING WELL LOCATION
- MW11-03 SHALLOW SAMPLE FROM VACUUM EXCAVATION (MONITORING WELL NOT INSTALLED)
- SW11-01 DRAINAGE SAMPLE LOCATION (APPROX.)

FORMER SITE INVESTIGATION LOCATIONS:

- TP99-106 KOMEX TRIAL PIT (1999)
- MW99-204 KOMEX MONITORING WELL (1999)
- MW2 KOMEX MONITORING WELL (1995)
- TP2 KOMEX TRIAL PIT (1995)

IKM SITE INVESTIGATION LOCATIONS 2013:

- GROUND WATER SAMPLING EXISTING WELL
- NORTHERN DISCHARGE SURFACE WATER SAMPLING
- SEDIMENT SAMPLING
- SPENT OXIDE "LOOK-SEE" TRIAL PITS
- TRIAL PITS
- BOREHOLES
- SURFACE WATER / STREAM OUTFALL SAMPLING
- DRAINAGE WATER SAMPLING
- HYDROCARBON ODOUR
- OILY GROUNDWATER
- TAR
- HYDROCARBON SHEEN
- BLUE SPACERS
- STAINING

RESIDUAL RISK REGISTER

IN ADDITION TO THE HAZARDS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING :

IDENTIFIED RISK / HAZARD	DESCRIPTION
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IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT PERSON WORKING TO AN APPROVED SAFE SYSTEM OF WORK.

STATUS

FOR INFORMATION

REV	DATE	BY	CHKD	DESCRIPTION
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CLIENT I & H BROWN

PROJECT MAELOR WORKS WREXHAM

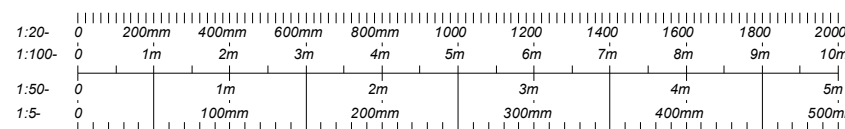
DRAWING VISUAL CONTAMINATION - AC2

DRAWING No. A1-13627-3039 REV 0



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	GROUND WATER SAMPLING EXISTING WELL
	SEDIMENT SAMPLING
	TRIAL PITS
	SURFACE WATER / STREAM OUTFALL SAMPLING
	HYDROCARBON ODOUR
	SPENT OXIDE
	TAR
	RED SEDIMENT
	STAINING



DRAWING. No.	REV
A1-13627-3041	0

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EXPLORATORY HOLES	QUANTIFICATION (%)
TP15	<0.001
TP17	<0.001
TP21	<0.001
TP7	0.002
TP5	0.109
TP6 - 0.4m	0.047
TP6 - 0.9m	<0.001
TP1	<0.001
TP2 - 0.5m	<0.001
TP2 - 1.0m	<0.001
TP3	<0.001
BH4	<0.001
TP51 - 0.9m	<0.001

ASBESTOS TESTING LOCATION PLAN – AREA AC
SCALE 1:1000

EXTERNAL REFERENCES: BELOW IS A LIST OF EXTERNALLY REFERENCED DRAWINGS REQUIRED TO VIEW AND PLOT THIS DRAWING.
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LEGEND:

- NATIONAL GRID PROPERTY HOLDINGS LTD BOUNDARY
- WALES & WEST UTILITIES BOUNDARIES
- CURRENT STRUCTURES
- FENCELINE

WORLEY PARSONS
SITE INVESTIGATION LOCATIONS 2011:

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- MW11-01 MONITORING WELL LOCATION
- MW11-03 SHALLOW SAMPLE FROM VACUUM EXCAVATION (MONITORING WELL NOT INSTALLED)
- SW11-01 DRAINAGE SAMPLE LOCATION (APPROX.)

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- MW2 KOMEX MONITORING WELL (1995)
- TP2 KOMEX TRIAL PIT (1995)

IKM SITE INVESTIGATION LOCATIONS 2013:

- GROUND WATER SAMPLING EXISTING WELL
- NORTHERN DISCHARGE SURFACE WATER SAMPLING
- SEDIMENT SAMPLING
- TRIAL PITS
- BOREHOLES
- SURFACE WATER / STREAM OUTFALL SAMPLING
- DRAINAGE WATER SAMPLING
- ASBESTOS NOT DETECTED
- ASBESTOS DETECTED <0.001
- ASBESTOS DETECTED >0.001

RESIDUAL RISK REGISTER

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IDENTIFIED RISK / HAZARD	DESCRIPTION
-	-
IDENTIFIED RISK / HAZARD	DESCRIPTION
-	-

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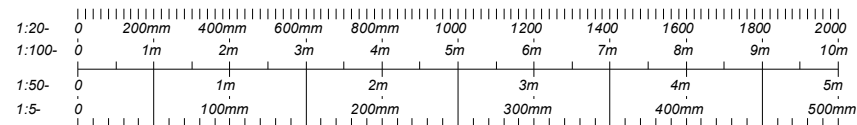
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CLIENT	I & H BROWN
PROJECT	MAELOR WORKS WREXHAM
DRAWING	ASBESTOS TESTING LOCATION PLAN - AREA AC

DRAWING No.	A1-13627-3014	REV	0
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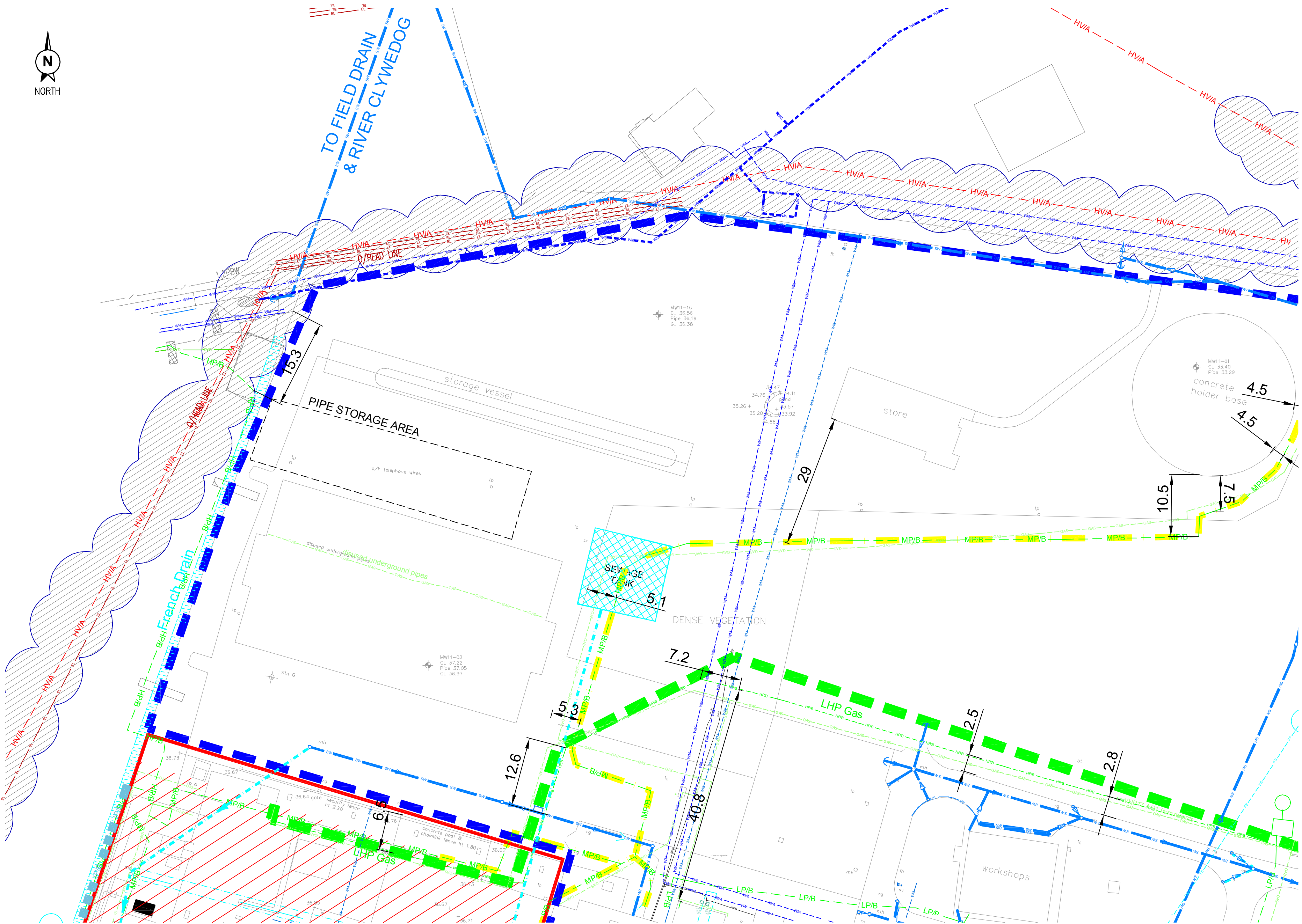
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LEGEND:

- NATIONAL GRID PROPERTY HOLDINGS LTD BOUNDARY
- WALES & WEST UTILITIES BOUNDARIES
- HP GAS MAINS
- MP GAS MAINS
- IP GAS MAINS
- HIGH VOLTAGE OVERHEAD POWER LINES
- OPERATIONAL WWU SITE



AREA AC1 CONSTRAINTS PLAN
SCALE 1:500

RESIDUAL RISK REGISTER

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IDENTIFIED RISK / HAZARD	DESCRIPTION
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IDENTIFIED RISK / HAZARD	DESCRIPTION
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PROJECT	MAELOR WORKS WREXHAM
DRAWING	AREA AC1 CONSTRAINTS PLAN

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AREA AC2 CONSTRAINTS PLAN
SCALE 1:500

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LEGEND:

- NATIONAL GRID PROPERTY HOLDINGS LTD BOUNDARY
- WALES & WEST UTILITIES BOUNDARIES
- IP GAS MAINS
- MP GAS MAINS
- HIGH VOLTAGE OVERHEAD POWER LINES
- OPERATIONAL WWU SITE
- OPERATIONAL COMAH SITE

RESIDUAL RISK REGISTER

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IDENTIFIED RISK / HAZARD	DESCRIPTION
-	-
IDENTIFIED RISK / HAZARD	DESCRIPTION
-	-

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STATUS

FOR INFORMATION

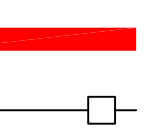
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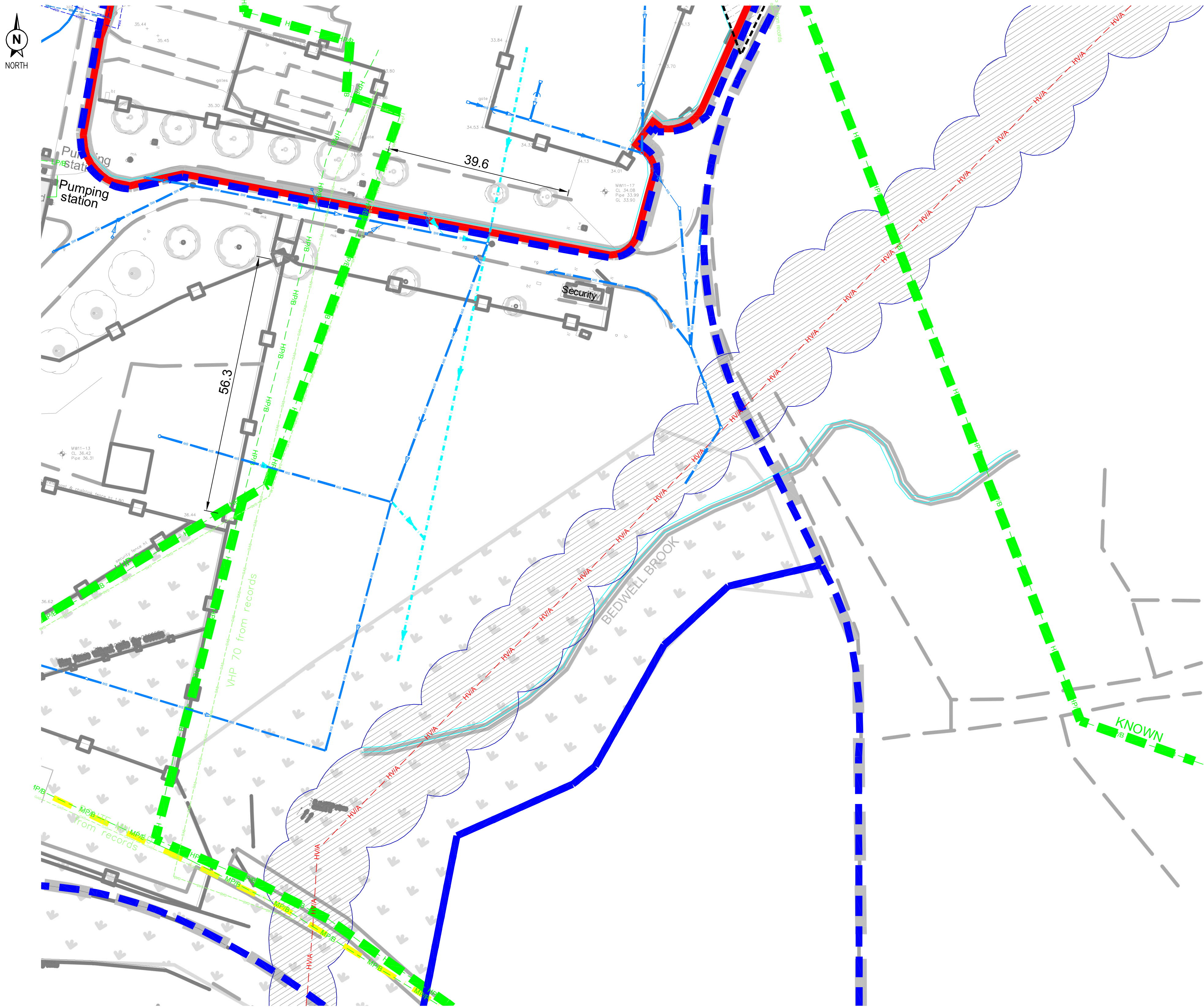
DRAWING No.	REV
A1-13627-3008	0


 NATIONAL GRID PROPERTY HOLDINGS LTD BOUNDARY
 WALES & WEST UTILITIES BOUNDARIES
 FENCELINE
 HP GAS MAINS
 MP GAS MAINS
 IP GAS MAINS
 HIGH VOLTAGE OVERHEAD POWER LINES
 OPERATIONAL COMAH SITE



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AREA AC4 CONSTRAINTS PLAN
SCALE 1:500

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- FENCELINE
- HP GAS MAINS
- MP GAS MAINS
- HIGH VOLTAGE OVERHEAD POWER LINES

RESIDUAL RISK REGISTER

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-	-
IDENTIFIED RISK / HAZARD	DESCRIPTION
-	-

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I & H BROWN

PROJECT
MAELOR WORKS
WREXHAM

DRAWING
AREA AC4 CONSTRAINTS PLAN

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