Defence Infrastructure Organisation

Gas Safety Management Plan (Section A)

Wyvern Barracks
ARC UOTC ACIO ACF ATC

23/04/2025

Produced to meet the requirements of the Gas Safety (Installation and Use) Regulations 1998

(Gas Safety Management Plan (Section B) covers the requirements of the Gas Safety (Management) Regulations 1996

ESTABLISHMENT KEY PERSONALITIES (GAS) CONTACTS

Role	Name	Tel No.	Email
Head of Establishment	Lt Col Aaron West RIFLES	0300 169 2470	Aaron.West191@mod.gov.uk
Establishment's SHEF	WO2 S Barnes AFPA 6 RIFLES	07946 720697	Steve.barnes163@mod.gov.uk
Establishments 4C's Coordinator	Dean Bywood Barrack Manager	07745 557033	Dean.Bywood100@mod.gov.uk
Senior DIO Estate Representative or Equivalent	Mark Cubitt	07955 280440	wx-est-hd@rfca.mod.uk
Site DIO Estate Representative or Equivalent	Kelvin Walker	07508 130359	wx-est-mgr2@rfca.mod.uk
MMO Site Manager or equivalent	Maj Owen Mitchell QM 6 RIFLES	01392 492445	Owen.Mitchell455@mod.gov.uk
Gas Safety Manager (GSM)	Justin Westcott	07793222820	Justin.Westcott@vivodefence.com
Gas Responsible Person (GRP)	Riona Moroney	07854053184	Riona.moroney@vivodefence.com

The Content of this Gas Safety Management Plan (GSMP) have been Approved by the Gas Safety Manager:

Signature: JP Westcott **Date: 21/02/2025**

Authorisation for Implementation
The content and format of this GSMP has been agreed and authorised for implementation by Defence Infrastructure Organisation Technical Services Principal Gas Engineer (DIO TS PGE) and a unique reference number has been generated to support this.

Approved – J Obbard PGE – 18th Feb 2022

The Content of this GSMP have been agreed by the Senior DIO Estate Representative or Equivalent and future works following the findings will be supported:

Signature: M Cubitt **Date: 28/04/2025**

The content of this GSMP have been agreed by the Head of Establishment and future works following the findings will be supported

Signature:…AJ WEST MBE……Date:…6 MAY 25

REVIEWS AND AMMENDMENTS

GSMPs are 'living documents' that should be subject to continual review and updating as required. Although the level of attention required will vary considerably depending on the size and complexity of each site, GSMPs should be reviewed at least once per quarter by the GRP, unless otherwise agreed by the PGE. Although it is likely that changes are not required at each review, the date of review and any changes made should be indicated on the tables below. The review of the GSMP will include a site visit to ensure that the site and the content of the GSMP remain valid. The reviews and amendments made will be deleted during the DIO TS three yearly review when the GSMP is re-authorised by the PGE.

Date	Page No.	Amendment
30/11/2021	All	Initial Development
05/05/2022	2	Updated Gas Emergency Number
05/05/2022	3	Updated Additional Gas Contact details
05/05/2022	3	Updated Gas Emergency Centre Number
05/05/2022	3	Added New Gas Supplier Details
05/05/2022	3	Changed Energy Assets Email and Contact Number
05/05/2022	22	Added Gas line Drawing Details
05/05/2022	23	Updated Emergency Gas Contact Number
05/05/2022	29-34	Added Gas Line Drawings to Annexe
04/08/2022	22	Inserted Gas Line Drawings as Icon
20/02/2023	8	Adjusted Description for Building 7 Plant Room
20/02/2023	20/21	Altered Building 7 Meter Type to Secondary Meter
20/02/2023	22 & Annexes	Added Network Drawing Detail, Icon and Drawing
10/05/2023	N/A	No Amendments Required
18/08/2023	N/A	No Amendments Required
28/11/2023	N/A	No Amendments Required
29/02/2024	8 & 25	Added New Building 7 Main Plantroom Boiler Details
29/02/2024	28 & 29	Added SSOV information
15/05/2024	N/A	No Amendments Required
30/08/2024	ii & 2	Updated HoEstates & HoEstablishment Details
18/10/2024		GSM re-authorisation (previously authorised 20/07/2023)
15/11/2024	N/A	No Amendments Required
19/02/2025	ii	Update GSM & GRP Contact details
19/02/2025	All	Update literature to reflect Vivo as MMO.

Date	Reviewed by	Authorised by	Comments
22/12/2021	M Fenwick	N King	Initial Review
05/05/2022	M Fenwick	M Fenwick	Quarterly Review
04/08/2022	M Fenwick	M Fenwick	Quarterly Review
14/11/2022	M Fenwick	M Fenwick	Quarterly Review
20/02/2023	M Fenwick	N King	Annual Review
10/05/2023	M Fenwick	M Fenwick	Quarterly Review
18/08/2023	M Fenwick	M Fenwick	Quarterly Review
28/11/2023	M Fenwick	M Fenwick	Quarterly Review
29/02/2024	M Fenwick	N King	Annual Review
15/05/2024	M Fenwick	M Fenwick	Quarterly Review
30/08/2024	M Fenwick	M Fenwick	Quarterly Review
18/10/2024	Neville King	Neville King	GSM re-authorisation
15/11/2024	M Fenwick	M Fenwick	Quarterly Review
03/02/2025	M Fenwick	M Fenwick	DNV De-Mobilisation Review / Handover
19/02/2025	R Moroney	J Westcott	Quarterly Review
21/02/2025	J Westcott	J Westcott	Initial review/approval

FORWARD

MOD, as a gas conveyor within Great Britain, has submitted an Exemplar Gas Safety Case (MOD GSC) to demonstrate compliance with the Gas Safety (Management) Regulations 1996 (GS(M)R). Maintenance Management Organisations (MMO's) are engaged who have the overall contractual responsibility to operate and maintain the gas network assets under their Contract, including the management of the safe flow of gas within the system and the provision of an emergency service. The MOD delegate specific duties to the MMO but accountability for gas safety on each site rests with the Head of Establishment.

Whilst gas downstream of the Emergency Control Valve (ECV) fall outside of the scope of (GS(M)R) similar criteria as those referred to above must be accommodated within an appropriate management system. The specific criteria required to adequately manage gas infrastructure downstream of the ECV are described in the Gas Safety (Installation and Use) Regulations 1998 (GS(IU)R).

The MOD GSC considers all parts of the MOD estates gas supply system that forms part of the gas supply network. This includes all parts of the MOD gas network from the Bulk Primary Meter Installation to the individual gas appliances and the safe release of the products of combustion. The MOD GSC considers primarily those matters that relate to the management of the safe flow of gas within the system and the provision of an emergency service for all aspects of the gas system.

Following initial approval of the Gas Safety Management Plans (GSMPs) by the DIO Principal Gas Engineer (PGE), the Gas Safety Manager (GSM) is required to reapprove this GSMP annually. GSMPs must be submitted to DIO PGE every three years for authorisation.

GSMP Section A document contains site specific details of the establishments utilisation infrastructure to assist with measures to ensure compliance with the GS(IU)R for installation pipework and associated components.

GSMP Section B documents contain site specific details and arrangements as a direct annex to the MOD GSC in line with the Gas Safety (Management) Regulations 1996 (GS(M)R).

GSMP Section C document contains site specific details and requirements of the establishment's LPG networks.

Although the legal status of this document applies in the UK only, the MOD apply the same requirements to the management of gas on its overseas estate, in accordance with the currently published Secretary of State's Health and Safety policy statement.

Contents

1 THE DUTY HOLDER AND ESTABLISHMENT LEVEL KEY PERSONALITIES

1.1. Gas Safety Case Duty Holder.

The duty holder for the MOD Gas Safety Case is the Permanent Under Secretary for Defence (PUS). However, day to day responsibility for the preparation and maintenance of the document is delegated to the DIO TS Head of Engineering and Construction, who also has the responsibility for managing the system in accordance with the Safety Case. PUS delegates maintenance responsibility to the Top-Level Budget Holders (TLB's), to manage safety of the gas network. The TLB's utilise MOD Contracts i.e. MMOs who have responsibility for maintaining the gas network on behalf of the MOD.

Name:	Permanent Under Secretary
Address:	Main Building Horse Guards Parade Whitehall London SW1A 2HB

1.2. DIO Technical Services Principal Gas Engineer (PGE).

The PGE assumes the role of Senior Authorising Authority which is a term used within the MOD to recognise the authority of the person responsible for overseeing the appointment of, and auditing Authorising Engineers (AEs). For Gas the AEs are replaced by Gas Safety Managers (GSMs).

Name:	Jeremy Obbard
Address:	DIO HQ Whittington Barracks Lichfield WS14 9TJ
☎:	07748 903260
✉:	Jeremy.obbard100@mod.gov.uk

1.3. Establishment Personalities.

Name of Establishment:	Wyvern Barracks ARC UOTC ACIO ACF ATC	
Establishment Address:	Barrack Road Exeter Devon EX2 6AR	
Head of Establishment (HoE) (This is the most senior MOD person identified, by the chain of command, as responsible for the establishment. The HoE holds accountability for ensuring site compliance with the requirements of GSMR and the MOD GSC, including this GSMP.)	Name: Position: Organisation: Address: ☎: ✉:	Lt Col Aaron West RIFLES CO MOD Exeter University Officer Training Corps Block 3 Wyvern Bks Exeter Devon EX2 6AR 01392 492444 Aaron.West191@mod.gov.uk
Senior DIO representative or equivalent (This may be the SEFM, but will vary depending on the contract this establishment falls under)	Name: Position: Organisation: Address: ☎: ✉:	Mark Cubitt Head of Estates Wessex Reserve Forces' & Cadets' Association Mount House Mount Street Taunton Somerset TA1 3QE 07955 280440 wx-est-hd@rfca.mod.uk

1.4. **Maintenance Management Organisation (MMO).**		
The MMO for this establishment is:		**VIVO**
Gas Emergency Helpdesk (Typically, MMO Helpdesk) (24 Hours) **Note:** Please do not contact the general public National Gas Emergency Service for suspected gas escapes on RFCA infrastructure.	Organisation: ☎:	VIVO Helpdesk Helpdesk 25 Goodlass Road Hunts Cross Liverpool L24 9HJ 0800 030 9320
Gas Safety Manager (GSM)	Name: Organisation: Address: ☎: ✉:	Justin Westcott VIVO Defence Services Building 003 CTCRM Lympstone NR Exmouth Devon EX8 5AR 07793 222820 Justin.Westcott@vivodefence.com
Gas Responsible Person (GRP)	Name: Organisation: Address: ☎: ✉:	Riona Moroney VIVO Defence Services Building 003 CTCRM Lympstone NR Exmouth Devon EX8 5AR 07845053184 Riona.Moroney@vivodefence.com

1.5. Additional Gas Contacts.		
Gas Supplier	Organisation: Address: ☎: ✉:	Totalenergies Gas & Power 55-57 High Street Redhill Surrey RH1 1RX 01737 275 746 gp.redhill.ccs@totalenergies.com
LPG Supplier	Organisation: Address:	Not Applicable, no bulk LPG on site.
Meter Asset Manager (MAM)	Organisation: Address: ☎: ✉:	Energy Assets Ltd 6 Almondvale Business Park Almondvale Way Livingston Scotland. EH54 6GA 0800 001 4310 box.ngm.meteringdataenquries@nationalgrid.com
National Gas Emergency Centre (24 Hours)	☎:	0800 111 999

2 SITE SPECIFIC DETAILS

2.1 Site Overview.

A brief description of the establishment and its current use. This should include how many separate sites are present and the number of buildings being supplied by gas.

Wyvern Barracks ARC UOTC ACI0 ACF ATC is a single site establishment with 17 buildings on site, fourteen of which are supplied by gas.
Nine buildings are supplied with gas from the Low Pressure (LP) MoD Network at 37mbar.
Building 7 has two metered feeds.
Building 1 supplies gas to building 2 via installation pipework.
Building 7 supplies gas to building 6 via installation pipework.
Building 11 has an MoD supply to the plant room and an EGDN supply to the Kitchen.
There are 5 individual Low Pressure (LP) EDGN supplies on site feeding gas to buildings 11 (Kitchen) 18,19 and 22.
Building 22 has two EGDN individual supplies.

Wyvern Barracks was established as an artillery barracks for the Board of Ordnance under the name of Topsham Barracks around 1800. In 1873 a system of recruiting areas based on counties was instituted under the Cardwell Reforms and the barracks became the depot for the two battalions of the 11th (North Devonshire) Regiment of Foot.
Following reforms, the regiment evolved to become the Devonshire Regiment with its depot in the barracks in 1881.
During the First World War a reserve brigade of the Royal Field Artillery was based at Topsham Barracks and during the Second World War units of the United States Army were based there.
After becoming home to the Devonshire and Dorset Regiment in 1958, the barracks went on to become the regional centre for infantry training as the Wessex Brigade Depot under the name of Wyvern Barracks in 1960.

Wyvern Barracks is currently home to Battalion HQ, HQ Company and an Assault Pioneer Platoon of 6th Battalion The Rifles and Exeter UOTC as well as B Detachment of 243 Field Hospital and 72 Military Intelligence Company Detachment of 7 Military Intelligence Battalion.
The ATC Devon and Somerset Wing Headquarters and 13 (City of Exeter) Squadron are also based on site.

The buildings have a mix of uses and are used primarily for accommodation, storage, MT workshops, offices, catering facilities and meeting/conference rooms.
Day to Day there are around 50 people on site and there can be up to 500 people on site when there are functions, events or parades.

2.2 Natural Gas.

A brief description of the natural gas installations, including how many MOD networks are present, the number of buildings each MOD network supplies and how many buildings are supplied direct from the EGDN. This should also include any demarcations in place between stakeholders and responsibilities.

There is 1 bulk fiscal meter on site supplied at Medium Pressure (MP) by the EGDN network. This meter then supplies an MoD network at Low Pressure (LP) with a pressure of 37 mbar. This is a twin stream meter installation.
The working stream is set at 37mbar.
The standby stream is set at 40mbar.

There are 9 buildings (1,3, 7 – 2 feeds, 8,9,10,11 – 2 feeds, ATC Store and ATC Office) fed from the MoD network.
There are four buildings each with individual Low Pressure (LP) supplies fed from the EGDN Network, building 22 having two individual EGDN supplies making a total of four individual EGDN supplies.

The bulk fiscal meter is in a purpose-built meter house to the North West side of the site behind building 3. The meter house is within the wire.

Bulk Fiscal Meter – Roots 11M
S/N – 9112765
311 m3/hr
MPRN - 47911102

The EGDN network enters the Bulk Fiscal Meter house in 4" steel and remains at 4" steel on the meter outlet. The Bulk Fiscal meter outlet valve is the demarcation point between the MoD network and the EGDN supply. The MoD is responsible from the Bulk Fiscal meter outlet valve up to and including the appliances in the buildings.
The 4" steel on the outlet drops directly into the ground within the meter house. The MoD Network is fully buried with the exception of the building risers. The network is thought to be of steel and PE construction and constructed in the early 1990's.
A pipeline survey is required to confirm pipe size, material, depth and length of the buried section of MoD network.
The total load on the bulk fiscal meter is 1,530.40 KW.
The Gas Safety Management Plan Part B will contain all Network information.

Building 1

From the MoD gas network, the gas runs through an SIV around 4 metres from the point of entry to the building and enters the building via a 63mm PE riser.
On entry to the building the gas transitions to steel and runs through a 2" ECV which is the demarcation point between the MoD gas network and installation pipework.
The steel gas pipework reduces to 1¼" on the outlet of the ECV and flows through a filter before entering the MoD owned and operated Utilisation gas meter and regulator. The inlet pressure from the MoD network is 37.59 mbar and the outlet pressure for the installation is 19.48 mbar.
From the 1¼" meter outlet valve the gas pipe rises to high level and continues through the wall and into the plant room.

Utilisation Meter

Parkinson Cowan Meter
S/N – 857944 S
16 m3/hr
Regulator - Jeavons

Plant Room

The installation pipework enters the plant room at high level and drops to low level and via a manual isolation valve continues through to the opposite end of the plant room, rises back to high level and exits the plant room to feed building 2. There is a tee section within the plant room at low level which runs through a manual isolation valve and supplies the single heating boiler. The gas pipe reduces to ¾" for the last half meter before connecting to the boiler.

Building 2

The gas pipework continues externally at high level between buildings 1 and 2 for 6 metres. On reaching building 2 it drops to low level and enters building 2. The steel gas pipe connects to an AECV on entry to the building and through an unregulated check/secondary meter.

Check Meter

GMT – GT4
S/N – 872872

6m3/hr

The gas pipework then transitions to 28mm copper from the meter outlet valve and continues to the single heating boiler in the same room.

There is also an old steel 1" section rising out of the floor next to the check meter for 0,5 metres. This pipework is capped and needs to be ascertained if this is still connected to the network.

Appliances:

Building 1 Boiler - Ideal Evomax 80 Heating Boiler

Building 2 Boiler - Keston Heat 45 Heating Boiler

The total load on this installation is 125 KW.
There is steel and copper pipe within the installation.

Building 3

From the MoD gas network the gas enters the brick built standalone gas meter house via a 40mm PE riser. On entry to the gas meter house the gas continues through a 1½" ECV and then increases in size to 3" steel. The ECV is the demarcation point between the MoD gas network and installation pipework. There is no SIV to this meter installation.
The gas flows through a filter before entering the MoD owned and operated Utilisation gas meter and regulator. The inlet pressure from the MoD network is 37.24 mbar and the outlet pressure for the installation is 22.42 mbar.
From the 3" meter outlet valve the gas pipe exits the gas meter house and drops below ground.

Utilisation Meter

Parkinson Cowan Meter
S/N – 605677 S
100 m3/hr
Regulator – Jeavons J48

There is a section of buried installation pipework that runs for 25 metres from the gas meter house to the building inlet. This is thought to be 3" steel. On this run there is also a tee section which is estimated to run a section of 1" steel below ground around the perimeter of the building to a steel riser which feeds the ACF store boiler.

Plant Room

The installation gas pipework enters the building via a 3" steel riser in the foyer area and rises to high level. This runs to the opposite end of the foyer area and enters the plant room at high level via a manual lever valve reducing to 2" steel before this valve. Within the plant room the steel pipe transitions to 50mm Stainless Steel Mapress and runs through an AECV.
The gas continues through a solenoid and a manual isolation valve before entering a manufactured manifold to feed three heating boilers.
Before the last manual valve there is a tee section supplying the water heater. This section runs through a manual isolation valve before reducing to 22mm Stainless Steel Mapress for the last metre to the water heater,

Main Kitchen

Within the foyer area and before the plant room isolation valve within the foyer there is a tee section with the outlet reducing to 2" steel and travelling through the lady's toilets, a small lobby area and the gent's toilets at high level. There is a manual isolating valve at high level within the lady's toilets.

The gas pipe enters the Kitchen in 2" steel at high level before running through a reducing tee. The first outlet is 1 ½" steel and this rises directly through the ceiling to feed the 1st floor kitchen. The 2nd outlet continues through the kitchen and drops to low level through a manual isolation valve and transitions to 22mm copper, through the kitchen interlocking solenoid valve and feeding three catering appliances.

1st Floor Kitchen

From the 2" section through the kitchen ceiling feeding the 1st floor kitchen, the steel gas pipe reduces to 1¼" and runs through an AECV and transitions to 22mm copper for the last metre feeding the single heating boiler in the 1st floor kitchen.

ACF Store

The external 1" installation pipework steel riser enters the building and runs through an AECV and then transitions to 22mm copper for the last half metre to the boiler.

Appliances:

Plant Room - Boiler - Remeha Quinta ACE 90
Boiler - Remeha Quinta ACE 90
Boiler - Remeha Quinta ACE 90
Water Heater - AO Smith ADMP 115G

Kitchen - Falcon G2860 Deep Fat Fryer
Blue Seal 6 Burner Range with Oven
Blue Seal 6 Burner Range with Oven

ACF Store - Worcester Greenstar Life 8000 Combi Boiler

1st Floor Kitchen – Ideal Imax W60 Heating Boiler

The total load on this installation is 614 KW.
There is steel, stainless steel and copper pipe within the installation.

Building 7 Main Plant Room

There is a 2" steel gas pipe that enters building 7 below ground by the main entrance. This pipe enters a duct with a screwed panel for access. The ECV at this point is the demarcation point, however there is no ECV handle on the valve. The gas pipe transitions to 3" steel through the ECV and runs above a false ceiling to the plant room, through the plant room and out into the brick built standalone gas meter house which sits outside of the plant room. This is a secondary gas meter. Before entry to the gas meter house the gas pipework reduces to 2" steel and runs through the MoD owned and operated AECV, regulator and secondary meter and back into the plant room to feed four heating boilers.
The inlet pressure from the MoD network is 36.65 mbar and the outlet pressure for the installation is 19-23 mbar. (No test point available).

Secondary Meter

GMT G25
S/N – 810369
40 m3/hr
Regulator – Sperryn G1011M6TB1210

Appliances:

Plant Room – Ideal Evomax 2 80.

Ideal Evomax 2 80.
Ideal Evomax 2 80.
Ideal Evomax 2 80.

The total load on this installation is 272.7KW.
There is only steel pipe within the installation.

Building 7 Front Plant Room

From the MoD gas network the gas enters the GRP wall hung gas meter box via a 25mm PE riser. On entry to the gas meter box the gas continues through a ¾" ECV. The ECV is the demarcation point between the MoD gas network and installation pipework. There is no SIV to this meter installation.
The gas flows through the MoD owned and operated Utilisation gas meter and regulator to feed a tee' d section after the meter outlet. The inlet pressure from the MoD network is nominally 37mbar (No test point available) and the outlet pressure for the installation pipework is 21.15 mbar.

Utilisation Meter

Parkinson Cowan Meter
S/N – 204507 S
6 m3/hr
Regulator – Jeavons J90

Plant Room

From the 22mm copper meter outlet the gas passes through a tee section, one outlet feeding building 6 and the other feeding building 7. The building 7 section exits the meter box and then transitions to 3/4" steel. This passes through a manual isolation valve and rises to high level before entering the building. The gas pipe runs through a ceiling void for a short distance before entering the plant room at high level, dropping directly to low level and running the length of the plant room before transitioning back to 22mm copper for the last metre up to the single heating boiler.

Building 6

From the tee section feed to building 6, the gas pipework drops out of the bottom of the gas meter box transitioning from 22mm copper to ¾" steel. The installation pipework drops directly into the ground and feeds building 6 approx. 12 metres opposite the meter box. There appears to be a PE fitting just before ground entry but there is only steel visible on the riser for building 6.
The riser for building 6 is ¾" steel and enters the building at low level, through an AECV and transitions to 22mm copper for a short 1 metre run to the single Combi boiler.

Appliances:

Building 7 Front Boiler - Vaillant Ecotec Plus 637 R1 Combi Boiler

Building 6 Boiler - Vaillant Ecotec Plus 824 R1 Combi Boiler

The total load on this installation is 65.4 KW.
There is steel and copper pipe within the installation.

Building 8

From the MoD gas network the gas enters the wooden floor standing gas meter box via a 2" steel riser. On entry to the gas meter box the gas continues through a 2" ECV. The ECV is the demarcation point between the MoD gas network and installation pipework. There is no SIV to this meter installation.

The gas continues through the MoD owned and operated Utilisation gas meter and regulator. The inlet pressure from the MoD network is 36.54 mbar and the outlet pressure for the installation is 20.14 mbar.

Utilisation Meter

Schlumberger Meter
S/N – 5009497 S
25 m3/hr
Regulator –
Plant Room

From the 2" meter outlet the steel gas pipe reduces to 1¼" steel and exits the gas meter house for less than 1 metre and then enters the plant room. The gas pipe runs through an AECV and solenoid valve before feeding the single gas boiler.

Appliance - Plant Room - Andrews Combiflo 100 Heating Boiler

The total load on this installation is 94 KW.
There is only steel pipe within the installation.

Building 9

From the MoD gas network the gas enters the wooden floor standing gas meter box via a 2" steel riser. On entry to the gas meter box the gas continues through a 2" ECV. The ECV is the demarcation point between the MoD gas network and installation pipework. There is no SIV to this meter installation.
The gas pipework reduces to 1¼" steel on the outlet of the ECV and continues through a filter and the MoD owned and operated Utilisation gas meter and regulator. The inlet pressure from the MoD network is 36.65 mbar and the outlet pressure for the installation is 20.62 mbar.

Utilisation Meter

Parkinson Cowan Meter
S/N – 860673 S
16 m3/hr
Regulator – Donkin Rc 1.1/4 Fig 226 A

Plant Room

From the 1¼" meter outlet the steel gas pipe exits the gas meter house for less than 1 metre and then enters the plant room. The gas pipe runs through a fire free fall valve which is designated as the AECV at present before feeding the single gas boiler.

Appliance - Plant Room - Ideal Concord CX 340 Heating Boiler

The total load on this installation is 124.5 KW.
There is only steel pipe within the installation.

Building 10

From the MoD gas network the gas enters the wooden floor standing gas meter box via a 2" steel riser. On entry to the gas meter box the gas continues through a 2" ECV. The ECV is the demarcation point between the MoD gas network and installation pipework. There is no SIV to this meter installation.
The gas pipework continues through an MoD owned and operated Utilisation meter before reducing to 1¼" steel after the meter outlet valve. The gas continues through the MoD owned and operated regulator before entering the plant room via the back of the gas meter house.

Plant Room

Within the plant room the gas continues through a fire drop valve before feeding two heating boilers.
The inlet pressure from the MoD network is 36.65 mbar and the outlet pressure for the installation is 19.95 mbar.

Utilisation Meter

Parkinson Cowan Meter
S/N – 853623 S
16 m3/hr
Regulator – Elster J48 Reg

Appliance - Plant Room - Remeha Gas 110 ECO-65 Heating Boiler
Remeha Gas 110 ECO-65 Heating Boiler

The total load on this installation is 62 KW.
There is only steel pipe within the installation.

Building 11 Plant Room

From the MoD gas network and via an SIV within 0.25 metres of the meter house the gas enters the wooden floor standing gas meter box via a 1½" steel riser. On entry to the gas meter box the gas continues through a 1½" ECV. The ECV is the demarcation point between the MoD gas network and installation pipework. There is no SIV to this meter installation.
After the ECV the steel gas pipe reduces to 1" and the gas continues through the MoD owned and operated Utilisation gas meter and regulator. The inlet pressure from the MoD network is 36.19 mbar and the outlet pressure for the installation is 20.16 mbar.

Utilisation Meter

Parkinson Cowan Meter
S/N – Not Visible
16 m3/hr
Regulator – Sperryn G1000

Plant Room

From the 1¼" meter outlet the steel gas pipe transitions to 28mm copper for a short distance before transitioning back to 1" steel and exits the gas meter house running directly into the plant room and then enters the plant room. The gas pipe runs the length of the plant room before feeding the single gas boiler.

Appliance - Plant Room - Ideal Concord 310 Heating Boiler

The total load on this installation is 113.5 KW.
There is steel and copper pipe within the installation.

ATC Office

From the MoD gas network the gas enters the wall mounted GRP meter box via a 20mm PE riser. On entry to the gas meter box the gas continues through a ¾" ECV to the gas meter. The ECV is the demarcation point between the MoD gas network and installation pipework.
After the ECV the gas continues through the MoD owned and operated Utilisation gas meter and regulator. The inlet pressure from the MoD network is nominally 37mbar (No test point available) and the outlet pressure for the installation is 23.74 mbar.

Utilisation Meter

Parkinson Cowan
S/N – 256641 S
6 m3/hr
Regulator – Sperryn G900

Plant Room

From the ¾" gas meter outlet a 22mm copper pipe runs directly through the back of the meter box and enters the plant room at around mid-level. The gas pipe drops to low level and runs a short distance to the single heating boiler.

Appliance - Plant Room - Ideal Mexico He 24 Heating Boiler

The total load on this installation is 27 KW.
There is only copper pipe within the installation.

ATC Store

From the MoD gas network the gas enters directly into the building via a 20mm PE riser. On entry to the building the gas runs through a ¾" ECV and the gas continues to the gas meter. The ECV is the demarcation point between the MoD gas network and installation pipework.
After the ECV the gas runs through the MoD owned and operated Utilisation gas meter and regulator. The inlet pressure from the MoD network is nominally 37mbar (No test point available) and the outlet pressure for the installation is 21.33 mbar.

Utilisation Meter

Magnol G4
S/N – 4791236
6 m3/hr
Regulator – Sperryn G940M

Plant Room

From the ¾" gas meter outlet a 22mm copper pipe runs to low level and through to the boiler room next door and runs a short distance to the single heating boiler.

Appliance - Plant Room - Ideal Mexico Super 2 CF 100 Heating Boiler

The total load on this installation is 39.3 KW.
There is only copper pipe within the installation.

Building 11 Kitchen

There is an EGDN Low Pressure (LP) network entering the site from an unknown area to supply gas to Building 11 Kitchen. The gas meter is located at the North end of the building.
From the EGDN Network the gas enters the external gas meter house on the North end of building 11 via a 63mm PE riser. On entry to the floor standing wooden gas meter house the gas continues through an EGDN 2" ECV before entering the MAM owned and operated gas meter and regulator. The ECV is the demarcation point between the EGDN gas network and installation pipework.
The outlet pipework is 1¼" steel and the MoD responsibility commences at the outlet of the meter up to and including the gas appliances.
The inlet pressure from the EGDN network is 27.87 mbar and the outlet pressure for the installation is 23.16 mbar.

Utilisation Meter

Elster BK – G10M
S/N – M 016 K05988 14 D6
16 m3/hr
MPRN - 8813187007

Kitchen

From the 1¼" meter outlet the steel gas pipe transitions to 28mm copper before exiting the meter house. The gas pipe runs externally for 2 metres via a manual isolation valve before entering the kitchen. The gas pipe runs through an AECV and drops to low level and runs along the kitchen wall to the opposite side. Along this run is a tee section with a 15mm feed for the multipoint water heater.
Once at the opposite side of the kitchen the 28mm copper gas pipe runs to high level, through the kitchen interlocking solenoid valve and along the back of the 3 catering appliances.

Appliances:

Kitchen - Main Mersey Super Multipoint Water Heater
Lincat GR7 Grill
Falcon G2101 EU 6 Burner Range with Oven
Elframo GM 12+12 Double Deep Fat Fryer

The total load on this installation is 101.33 KW.
There is only copper pipe within the installation.

Building 18

There is an EGDN Low Pressure (LP) network entering the site from the North East side that supplies gas to buildings 18, 19 and 22. From the EGDN Network and via an EGDN SIV the gas enters the internal gas meter cupboard in building 18 via a 63mm PE riser.
The EGDN SIV is located 5 metres opposite the gas entry point to the building. On entry to the meter cupboard the gas continues through an EGDN 2" ECV before entering the MAM owned and operated gas meter and regulator. The ECV is the demarcation point between the EGDN gas network and installation pipework.
The inlet pressure from the EGDN network is 27.21 mbar and the outlet pressure for the installation is 21.65 mbar.
The outlet pipework is 2" steel and the MoD responsibility commences at the outlet of the meter outlet valve up to and including the gas appliances.

EGDN Meter 1 – Elster BK – G16M
S/N – M 025 K05214 14 D6
25m3/hr
MPRN – 47911001

Plant Room

From within the internal gas meter cupboard the gas rises from the meter outlet valve in 2" steel and transitions to 28mm copper. There are two tee section before the top of the rise. The first tee reduces the outlet to 22mm copper and feeds the gas heating boiler within the plant room. The 2nd tee has a 28mm outlet and this section feeds the hot water boiler within the plant room.
At the top of the rise the copper pipe transitions back to 1" steel and exits the plant room and runs into the main building.

Gymnasium

The gas pipe runs through the office area within the ceiling and enters the Gym. At the entry point there is a tee section in 1" steel feeding the first warm air heater. The gas pipe continues in 1" steel at high level to the opposite end of the Gym to feed the 2nd warm air heater.

Appliances:

Plant Room - Vaillant Thermocompact VC GB 242 EH Combi Boiler
Lochinvar Water Heater

Gym - Powrmatic Euro 240 Warm Air Heater
Powrmatic PGUH 240 Warm Air Heater

The total load on this installation is 268.6 KW.
There is steel and copper pipe within the installation.

Building 19

There is an EGDN Low Pressure (LP) network entering the site from the North East side that supplies gas to buildings 18, 19 and 22. From the EGDN Network the gas enters the external gas meter house on the North West Corner of building 19 via a 63mm PE riser. On entry to the floor standing GRP gas meter house the gas continues through an EGDN 2" ECV before entering the MAM owned and operated gas meter and regulator. The ECV is the demarcation point between the EGDN gas network and installation pipework.
The inlet pressure from the EGDN network is 27.73 mbar and the outlet pressure for the installation is 22.54 mbar.
The outlet pipework is 2" steel and the MoD responsibility commences at the outlet of the meter outlet valve up to and including the gas appliances.

EGDN Meter 1 – Elster BK – G25M
S/N – M 040 K04268 14 D6
40m3/hr
MPRN - 9155505010

Plant Room

From the gas meter outlet valve the steel gas pipe size increases to 2½" and drops below ground from within the meter box. The buried installation pipework material is not known. Trial holes are required to clarify pipework depth/material/size.
From existing drawings, the pipework drops below ground into a tee section with the right-side 2½" pipework travelling below ground for 10 metres to feed the plant room. There is a short section of external installation pipework which is less than 1 metre long where the 2½" pipework exits raised ground horizontally and enters the plant room. The gas pipe enters an AECV which is non-compliant and continues through a solenoid valve to the opposite end of the plant room. There are three heating boilers tee' d off from this section.

Kitchen

From the left-hand section of the below ground tee the gas pipe reduces to 1¼" pipework and runs for 12 metres around the perimeter of the North side of the building and enters the kitchen via a 1¼" steel riser. The steel riser is 1 metre of external installation pipework.
The gas pipe runs through the kitchen in 1¼" steel via an AECV and kitchen interlocking solenoid and continues to the back of the 6 catering appliances.

Appliances:

Plant Room - Remeha Quinta Pro 65 Heating Boiler
Remeha Quinta Pro 65 Heating Boiler
Remeha Quinta Pro 65 Heating Boiler

Kitchen - Rational Combi Master CM 61 Combi Oven
Angelo 4 Burner Range with Oven
Angelo 4 Burner Range with Oven
Moffat Blue Seal GT 46 Deep Fat Fryer
Dean SR 42 Deep Fat Fryer
Falcon Dominator Grill

The total load on this installation is 340 KW.
There is only steel pipe within the installation.

Building 22

There is an EGDN Low Pressure (LP) network entering the site from the North East side that supplies gas to buildings 18, 19 and 22. From the EGDN Network the gas enters the external gas meter house on the North side of building 22 via a 63mm PE riser. On entry to the floor standing GRP gas meter house the gas continues through an EGDN 2" ECV before entering the MAM owned and operated gas meter and regulator. The ECV is the demarcation point between the EGDN gas network and installation pipework.
The inlet pressure from the EGDN network is 26.24 mbar and the outlet pressure for the installation is 21.51 mbar.
The outlet pipework is 2" steel and the MoD responsibility commences at the outlet of the meter outlet valve up to and including the gas appliances.

EGDN Meter 3 – Elster BK – G16M
S/N – M 025 K04318 14 D6
25m3/hr
MPRN – 8852961400

Handymans Workshop

From the 2" meter outlet valve the gas pipework reduces to 1¼" steel, exits the meter box for a short distance before entering the handyman's workshop to an AECV. This is a short section of external installation pipework less than 1 metre long. From the AECV there is a tee with the main outlet continuing in 1¼" steel and the other outlet reducing to ¾" and feeding the single Combi boiler within the handyman's workshop.

MT Workshops

The 1¼" outlet of the tee section runs through a manual isolating valve and rises to high level. This then continues at high level through the store and into the MT Workshops where there is a tee section to feed the two radiant tube heaters within the MT Workshop.

Toilet Boiler

At the outlet of the high-level tee section the steel pipe reduces to 1" steel and continues at high until dropping to low level within the toilets boiler room.
This further reduces to ¾" and passes through a manual isolating valve before feeding the single combi boiler.

Appliances:

Handyman's Workshop - Vaillant Ecotec Plus 630 R1 Combi Boiler

MT Workshops - Ambi Rad Radiant Tube Heater
Ambi Rad Radiant Tube Heater

Toilets - Vaillant Ecotec Plus 624 R1 Combi Boiler

The total load on this installation is 101.3 KW.
There is only steel pipe within the installation.

Building 22 Stores

There is an EGDN Low Pressure (LP) network entering the site from the North East side that supplies gas to buildings 18, 19 and 22. From the EGDN Network the gas enters the external gas meter house on the North side of building 22 via a 20mm PE riser. On entry to the wall hung GRP gas meter house the gas continues through an EGDN 3/4" ECV before entering the MAM owned and operated gas meter and regulator. The ECV is the demarcation point between the EGDN gas network and installation pipework.
The inlet pressure from the EGDN network is assumed to be around 27 mbar (No test point available) and the outlet pressure for the installation is 22.36 mbar.
The outlet pipework is 22mm copper and the MoD responsibility commences at the outlet of the meter up to and including the gas appliance.
There is a short section of 22mm copper which exits the meter box and transitions to ¾" before entering the building. This is less than 1 metre of external installation pipework.

Plant Room

The gas enters the building in ¾" steel and runs through a solenoid valve which is the designated AECV. The gas pipe rises to high level and through the ceiling into the upper mezzanine store area. The gas then continues at high level through the store's offices, into the mess area and drops into the internal plant room.
The gas continues through a manual isolation valve to feed the single boiler within the plant room.

EGDN Meter 4 – Elster BK – G4M
S/N – G4 K0023884 14 01
6m3/hr
MPRN – Not Known

Appliance - Ideal Mexico Super 2 CF 140 Heating Boiler

The total load on this installation is 52 KW.
There is only steel pipe within the installation.

2.3 LPG Gas.

A brief description of the LPG installations, including how many compounds are at the establishment, condition and make up of each compound, the number and size (kg) of vessels in each compound, the number of LPG MOD networks, the number of buildings supplied from the LPG MOD networks, how many buildings are supplied direct and not from an LPG MOD network. Details of the LPG pipework after the first stage regulator up to the building(s).

Note: The demarcation agreement between the LPG supplier and the MOD has been agreed and the MOD take responsibility from the outlet of the first stage regulator. The LPG supplier is responsible for the vessel, vessel associated components (excluding any earth bonding) pipework up to and including the first stage regulator.

No LPG on this establishment

2.4 External Installation Pipework.

A brief description of the external installation pipework (above or below ground) on each building. This is from the ECV to where it enters the building(s), the material, diameter, lengths, supports, conditions etc.

Building 1 – There is a section of 1¼" steel pipework that runs at high level for 4 metres and a 2-metre section dropping to low level between buildings 1 and 2.

Building 3 Main Building – There are two short sections of external installation pipework which are both less than 1 metre. The steel 3" riser into the foyer area of building 3 and the 25mm steel riser into the ACF store.

Building 6 – There is a steel riser feeding building 6 which is less than a metre and is installation pipework.

Building 7 Front Plant Room – There is a short piece of 22mm copper exiting the meter box before transitioning to ¾" steel and the steel runs externally for around 6 metres before entering the building.

Building 8 – There is a short piece of 1¼" steel that exits the meter box and runs for less than 1 metre before entering the plant room.

Building 9 – There is a short piece of 1¼" steel that exits the meter box and runs for less than 1 metre before entering the plant room.

Building 11 Galley – There is a section of 28mm copper that exits the meter house and runs externally for 2 metres and through a manual isolation valve before entering the building.

Building 19 Plant Room - There is a short section of external installation pipework which is less than 1 metre long where the 2½" pipework exits raised ground horizontally and enters the plant room.

Building 19 Galley – There is a 1¼" steel riser into the kitchen of 1 metre length which is external installation pipework.

Building 22 Workshops and Offices – There is a short section of 1¼" steel which exits the meter box before entering the building. This is less than 1 metre long.

Building 22 Store – There is a short section of 22mm copper which exits the meter box before entering the building. This is less than 1 metre long.

2.5 Details of buildings served.

A list of the buildings being supplied by gas via an MOD network, LPG compound or directly from the EGDN and the usage of the gas (catering, hot water, heating, fire training, etc) at the building.

Ser	Building Number	Building description	Supplied by	Gas usage
1	Building 1	Offices and Stores	Network 001	Heating
2	Building 3	Office space, Accommodation, Galley and a lounge/bar	Network 001	Heating, Hot water, Catering
3	Building 7 Front Plant Room	Offices	Network 001	Heating
4	Building 7 Main Plant Room	Offices, Accommodation	Network 001	Heating
5	Building 8	Accommodation	Network 001	Heating and Hot water
6	Building 9	Accommodation	Network 001	Heating and Hot water
7	Building 10	Accommodation	Network 001	Heating and Hot water
8	Building 11 Plant Room	Offices	Network 001	Heating
9	ATC Store	Storerooms	Network 001	Heating
10	ATC Office	Offices	Network 001	Heating
11	Building 11 Galley	Galley	EGDN Single Supply 1	Catering, Hot water

12	Building 18	Gymnasium	EGDN Single Supply 2	Heating and Hot water
13	Building 19	Galley	EGDN Single Supply 3	Heating and Hot water
14	Building 22	Offices, Workshops, Stores	EGDN Single Supply 4	Heating and Hot water
15	Building 22	Stores	EGDN Single Supply 5	Heating

2.6 Additional details of buildings being served.

Any additional detail about a building that may be required or useful in an emergency or requires more details than captured above.

NOTE: This section is to be used to capture the Service Family Accommodation (SFA) properties where it is not practical to fit above.

N/A

3 METER DETAILS

3.1 Primary Meter Details.

The following table describes the basic arrangement of the primary meter installation(s). (These are the responsibility of the MAM)

NOTE: More detail on the primary meters that supply MOD networks can be seen in the GSMP part B.

Number of primary meter installations: 6

Meter Name / ID	MPRN	Supplying (MOD network ID or Bldg number)	location	Incoming pressure tier – HP, IP, MP, LP	Outlet pipeline				Max Flow (M^3 hr)
					P tier – HP, IP, MP, LP	Pressure (mbar)	Material	Diameter (mm)	
Bulk Fiscal Meter	47911102	Network 001	Northwest Side of Site within the wire, behind building 3	MP	LP	37	Steel	100	311
EGDN Single Supply 1	8813187007	Building 11	North End of Building 11	LP	LP	23.16	Copper	28	16
EGDN Single Supply 2	47911001	Building 18	Northeast End of Building 18	LP	LP	21.65	Steel	50	25
EGDN Single Supply 3	9155505010	Building 19	Northwest Corner of Building 19	LP	LP	22.54	Steel	65	40
EGDN Single Supply 4	8852961400	Building 22	North Side of building 22	LP	LP	21.51	Steel	50	25
EGDN Single Supply 5	Not Known	Building 22	North Side of building 22	LP	LP	22.36	Copper	22	6

3.2 Utilisation Meter Details. (meters supplied directly from the MOD gas network)

The following table describes the basic arrangement of the utilisation meter installation(s). (These are the responsibility of the MOD)

Number of utilisation meter installations: 9

Meter Name / ID	Being supplied from (MOD network ID)	Inlet pipeline				Outlet pipework				Max Flow (M^3 hr)
		P tier – HP, IP, MP, LP	Pressure (mbar)	Material	Diameter (mm)	P tier – HP, IP, MP, LP	Pressure (mbar)	Material	Diameter (mm)	
Building 1 – WX100/MET/001	Network 001	LP	37.59	PE	63	LP	19.48	Steel	35	16
Building 3 – WX100/MET/002	Network 001	LP	37.24	PE	40	LP	21.33	Steel	80	100

Building 7 Front – WX100/MET/003	Network 001	LP	NTP	PE	25	LP	21	Copper	22	6
Building 8 – WX100/MET/005	Network 001	LP	36.54	Steel	50	LP	20.14	Steel	50	25
Building 9 – WX100/MET/006	Network 001	LP	36.65	Steel	50	LP	20.62	Steel	35	16
Building 10 – WX100/MET/007	Network 001	LP	36.91	Steel	50	LP	19.95	Steel	50	16
Building 11 Plant Room – WX100/MET/009	Network 001	LP	36.19	Steel	40	LP	20.16	Copper	28	16
ATC Office – WX100/MET/010	Network 001	LP	NTP	PE	20	LP	23.74	Copper	22	6
ATC Store – WX100/MET/011	Network 001	LP	NTP	PE	20	LP	21.33	Copper	22	6
Secondary Meter										
Building 7 Main Plant Room	Network 001	LP	36.65	Steel	80	LP	NTP	Steel	50	40

4 DIAGRAMS AND DRAWINGS

4.1 Line diagrams for building(s) internal gas installation pipework.

This section is to contain line diagrams for building internal installation pipework and associated components. This diagram should be fixed to the building at a practical and accessible location as well as within any associated document centres. It may be embedded as a PDF to this document for online use.

NOTE: Drawings are only required for commercial installations or for installation in commercial settings (non-domestic use). This may mean more installations than listed in IGEM/UP/2 Edition 3 (4.2.14), depending on the installations intended use.

Drawing Number	Building	Comments
WX100-A-A3	1 and 2	Not to Scale Gas Line Drawing
WX100-A-A3	3	Not to Scale Gas Line Drawing
WX100-A-A3	6 and 7	Not to Scale Gas Line Drawing
WX100-A-A3	8	Not to Scale Gas Line Drawing
WX100-A-A3	9	Not to Scale Gas Line Drawing
WX100-A-A3	10	Not to Scale Gas Line Drawing
WX100-A-A3	11	Not to Scale Gas Line Drawing
WX100-A-A3	ATC Office	Not to Scale Gas Line Drawing
WX100-A-A3	ATC Store	Not to Scale Gas Line Drawing
WX100-A-A3	18	Not to Scale Gas Line Drawing
WX100-A-A3	19	Not to Scale Gas Line Drawing
WX100-A-A3	22	Not to Scale Gas Line Drawing
		WX100-A-A3.pdf

4.2 Additional drawings.

This section is to contain any additional drawings that may be required or may be of benefit to this GSMP or emergency procedures.

Drawing Number	Building	Comments
WX100-B-A1	Site Gas Network Layout	Scale 1:1000
		WX100-B-A1.pdf

5 GAS INCIDENTS

5.1 Site reporting procedures for dealing with gas incidents.

This section is to contain the establishment's site-specific procedure for dealing with reports of gas incidents with regards the external installation pipework, internal installation pipework and equipment. Details of all individuals with responsibilities under this procedure should be included.

Procedure for an incident involving the gas installations on site:

- Call VIVO Helpdesk line on 0800 030 9320, open 24 hours per day.
- VIVO helpdesk will contact 0800 111 999
- The EGDN shall attend and make safe a gas incident.
- Vivo Gas Responsible Person shall be informed immediately by the site personnel.

6 GAS EQUIPMENT

6.1 Equipment List.
This section is to include details of all the gas equipment being used at the establishment.

Building number	Equipment location	Equipment type (make, model)	Serial Number	Appliance kW rating	Flue classification	Comments
Fed from MoD Network						
Building 1	Plant Room	Ideal Evomax 80 Heating Boiler	ACK 20596000003750	80	Room Sealed	
Building 2	Store Area	Keston Heat 45 Heating Boiler	20863300005715	45	Room Sealed	Installation Pipework fed from Building 1
Building 3	Plant Room	Remeha Quinta ACE 90 Heating Boiler	1920621837700	89.5	Room Sealed	
Building 3	Plant Room	Remeha Quinta ACE 90 Heating Boiler	1920421821800	89.5	Room Sealed	
Building 3	Plant Room	Remeha Quinta ACE 90 Heating Boiler	192421822290	89.5	Room Sealed	
Building 3	Plant Room	AO Smith ADMP 115G Water Heater	084303996502001	114	Room Sealed	
Building 3	ATC Store	Worcester Greenstar Life 8000 Combi Boiler	3730-953-001804-7738100808	35	Room Sealed	
Building 3	1st Floor Kitchen	Ideal Imax W60 Heating Boiler	UF 158082 0741 00416	66.5	Room Sealed	
Building 3	Main Kitchen	Falcon G2860 Deep Fat Fryer	F510428	30	Flueless – Canopy Extract	
Building 3	Main Kitchen	Blue Seal G506 DF 6 Burner Range with Oven	No Data	50	Flueless – Canopy Extract	
Building 3	Main Kitchen	Blue Seal G50 6 Burner Range with Oven	No Data	50	Flueless – Canopy Extract	

Building 6	Kitchen	Vaillant Ecotec Plus 824 R1 Combi Boiler	210739308520<<<< 1300037756N7	26.1	Room Sealed	Installation Pipework fed from Building 7 Front Gas Meter
Building 7	Main Plant Room	Ideal Evomax 2 80 Heating boiler	22081700003970	90.9	Open Flue	
Building 7	Main Plant Room	Ideal Evomax 2 80 Heating boiler	22081700003969	90.9	Open Flue	
Building 7	Main Plant Room	Ideal Evomax 2 80 Heating boiler	22081700003968	90.9	Open Flue	
Building 7	Front Plant Room	Vaillant Ecotec Plus 637 R1 Combi Boiler	210738308528<<<< 1300008871N8	39.3	Room Sealed	
Building 8	Plant Room	Andrews Combiflo 100 Heating Boiler	1716000209	94	Room Sealed	
Building 9	Plant Room	Ideal Concord CX 340 Heating Boiler	FC 80824	124.5	Open Flue	
Building 10	Plant Room	Remeha Gas 110 ECO-65 Heating Boiler	100010820 000000000845	62	Open Flue	
Building 10	Plant Room	Remeha Gas 110 ECO-65 Heating Boiler	100010820 000000000846	62	Open Flue	
Building 11	Plant Room	Ideal Concord 310 Heating Boiler	70729	113.5	Open Flue	
ATC Offices	Plant Room	Ideal Mexico He 24 Heating Boiler	No Data	27	Room Sealed	
ATC Stores	Plant Room	Ideal Mexico Super 2 CF 100 Heating Boiler	No Data	39.3	Open Flue	
Fed from Individual EGDN Supply 1						
Building 11	Kitchen	Main Mersey Super Multipoint Water Heater	CLAD549	30.3	Room Sealed	Building 11
Building 11	Kitchen	Lincat GR7 Grill	9609799	8.13	Flueless – Canopy Extract	Building 11

Building 11	Kitchen	Falcon G2101 EU 6 Burner Range with Oven	F500635	38.9	Flueless – Canopy Extract	Building 11
Building 11	Kitchen	Elframo GM 12+12 Double Deep Fat Fryer	L182VO	24	Flueless – Canopy Extract	Building 11
Fed from Individual EGDN Supply 2						
Building 18	Plant Room	Vaillant Thermocompact VC GB 242 EH Combi Boiler	94 29868521	29.6	Room Sealed	
Building 18	Plant Room	Lochinvar Water Heater	No Data	75	Open Flue	
Building 18	Gymnasium	Powrmatic Euro 240 Warm Air Heater	High Level – Access Required	82	Open Flue	
Building 18	Gymnasium	Powrmatic PGUH 240 Warm Air Heater	High Level – Access Required	82	Open Flue	
Fed from Individual EGDN Supply 3						
Building 19	Plant Room	Remeha Quinta Pro 65 Heating Boiler	1103901663830	65	Room Sealed	
Building 19	Plant Room	Remeha Quinta Pro 65 Heating Boiler	1103901663810	65	Room Sealed	
Building 19	Plant Room	Remeha Quinta Pro 65 Heating Boiler	1103901663840	65	Room Sealed	
Building 19	Kitchen	Moffat Blue Seal GT 46 Deep Fat Fryer	681483	22.5	Flueless – Canopy Extract	
Fed from Individual EGDN Supply 4						

Building 22	Workshops	Ambi Rad Radiant Tube Heater	High Level – Access Required	22	Open Flue	
Building 22	Workshops	Ambi Rad Radiant Tube Heater	High Level – Access Required	22	Open Flue	
Building 22	Store Cupboard	Vaillant Ecotec Plus 624 R1 Combi Boiler	210732308526<<<< 1300008474N0	25.5	Room Sealed	
Building 22	Handy Man's Workshop	Vaillant Ecotec Plus 630 R1 Combi Boiler	210647308527<<<< 1300009701N5	31.8	Room Sealed	
Fed from Individual EGDN Supply 5						
Building 22	Stores	Ideal Mexico HE 36	20151100003300 2148	37.1	Open Flue	

6.2 Additional equipment information.
This section is to contain any additional equipment information that may be required or may be of benefit to this GSMP or emergency procedures.

Safety shut off valves are required to be frequently checked every year in accordance with CRFCA hard FM task list:
160418-GL-EST-Task2Ser9-GasApplianceandPipework
A list of the checks is captured below.

160418-GL-EST-Task
2Ser09-GasAppliance

Kitchen Canopy Gas Interlock installed in Building 3 Kitchen, with SSOV and emergency stop button by exit door.

WYVERN BUILDING
3 JB50440 58240 PM'

Kitchen Canopy Gas Interlock installed in Building 11 Kitchen, with SSOV and emergency stop button by exit door.

WYVERN BUILDING
11 JB50441 57652 PM

Kitchen Canopy Gas Interlock installed in Building 19 Kitchen, with SSOV and emergency stop button by exit door.

WYVERN BUILDING
19 JB50443 58239 PM

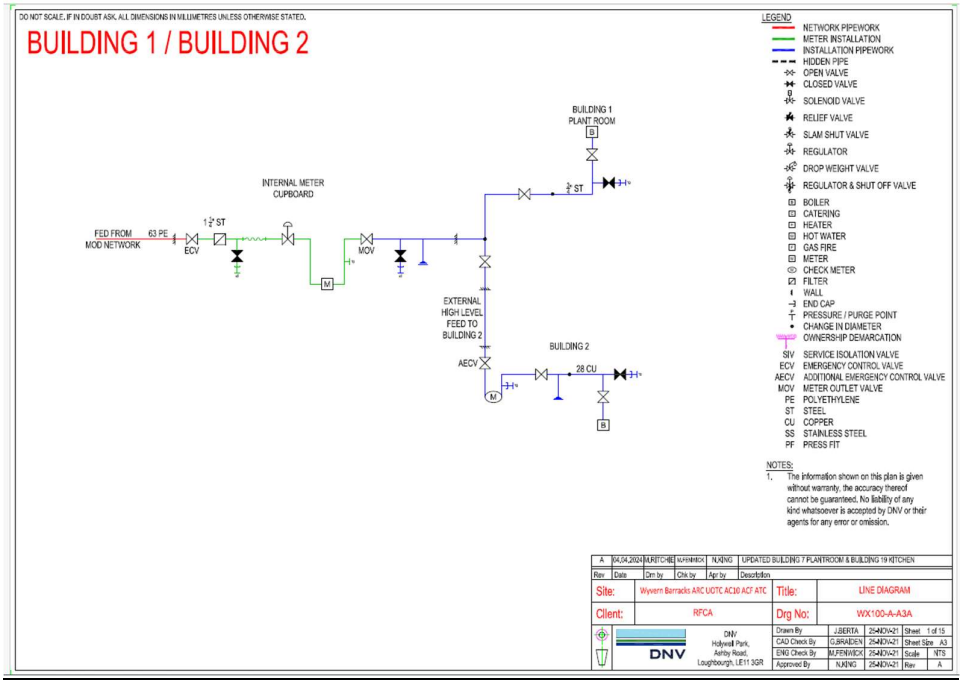
In-line solenoid observed in Building 3 plantroom, believed to be fire alarm linked, unable to validate and test.
In-line solenoid observed in Building 7 plantroom, believed to be fire alarm linked, unable to validate and test.

In-line solenoid observed in Building 22 stores, believed to be fire alarm linked, unable to validate and test.

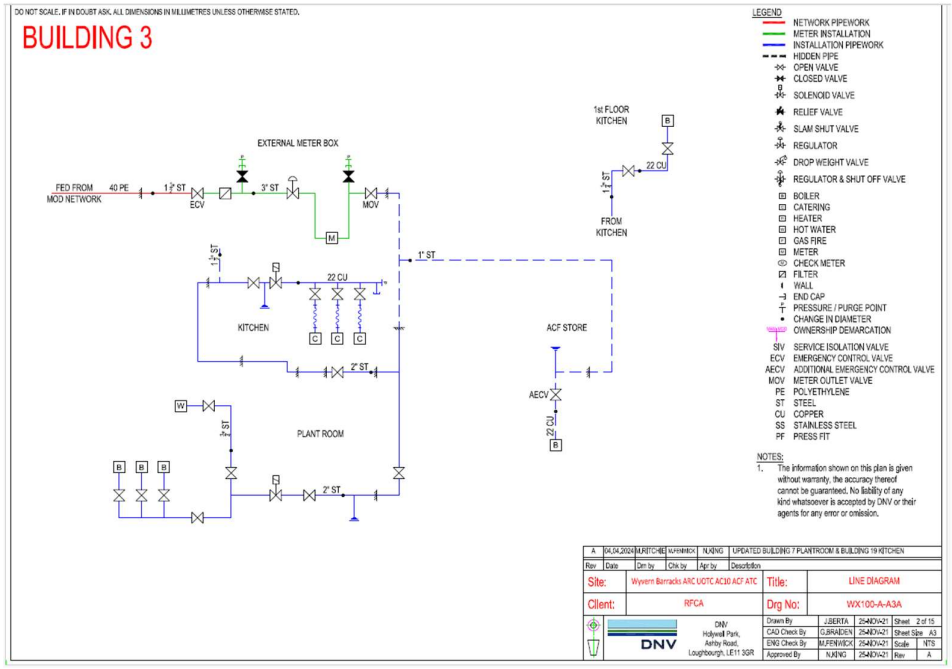
7 ANNEXES

Gas Line Drawings

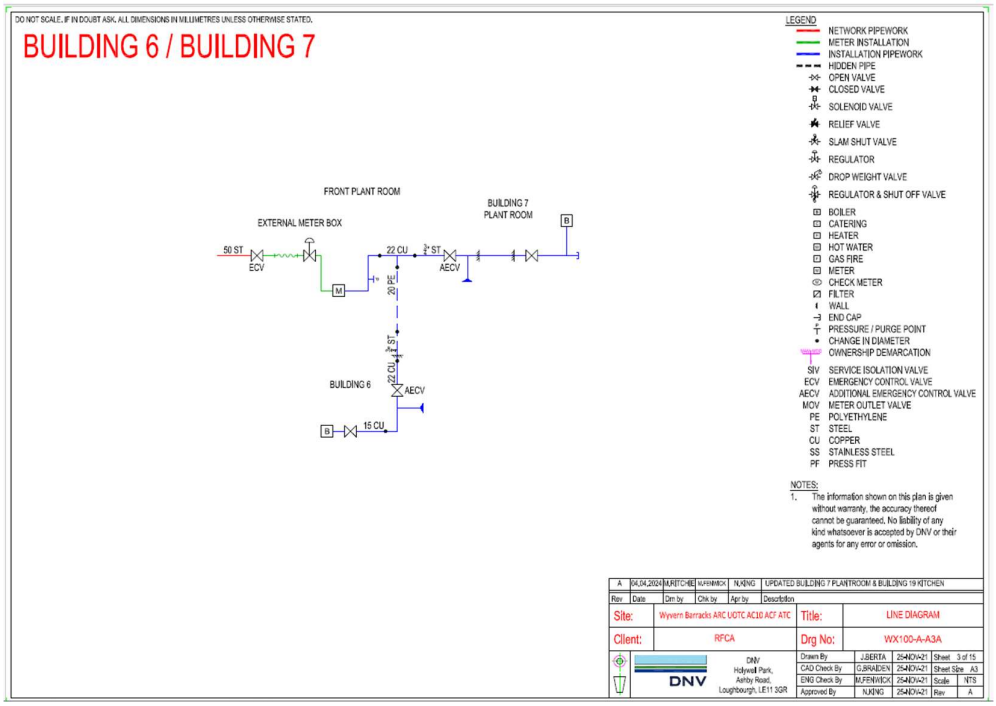
Building 1 and 2



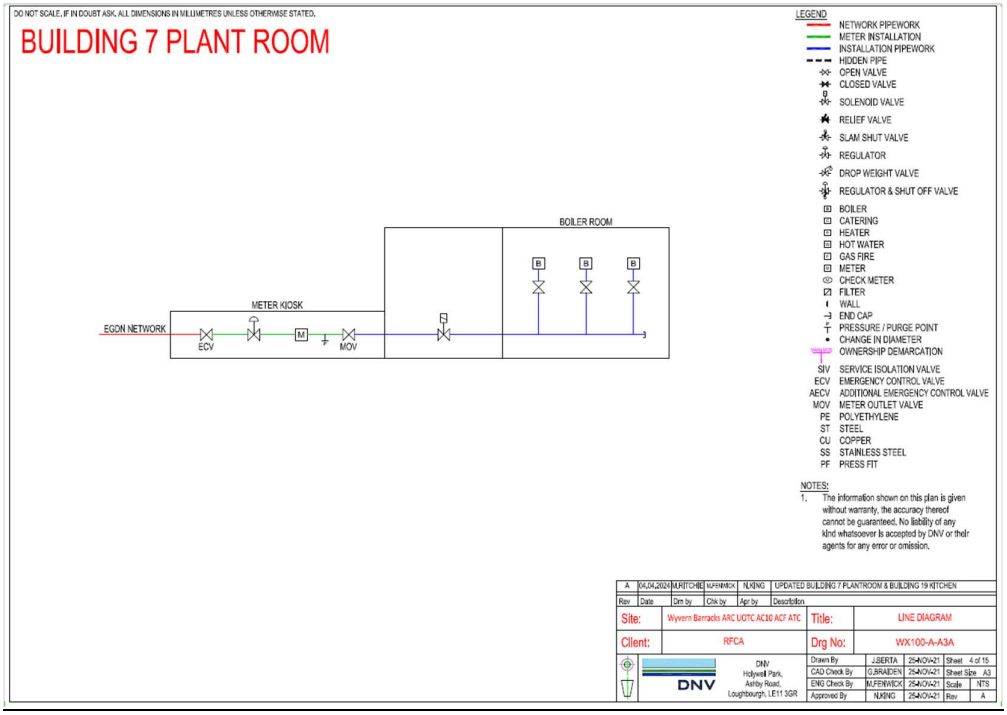
Building 3



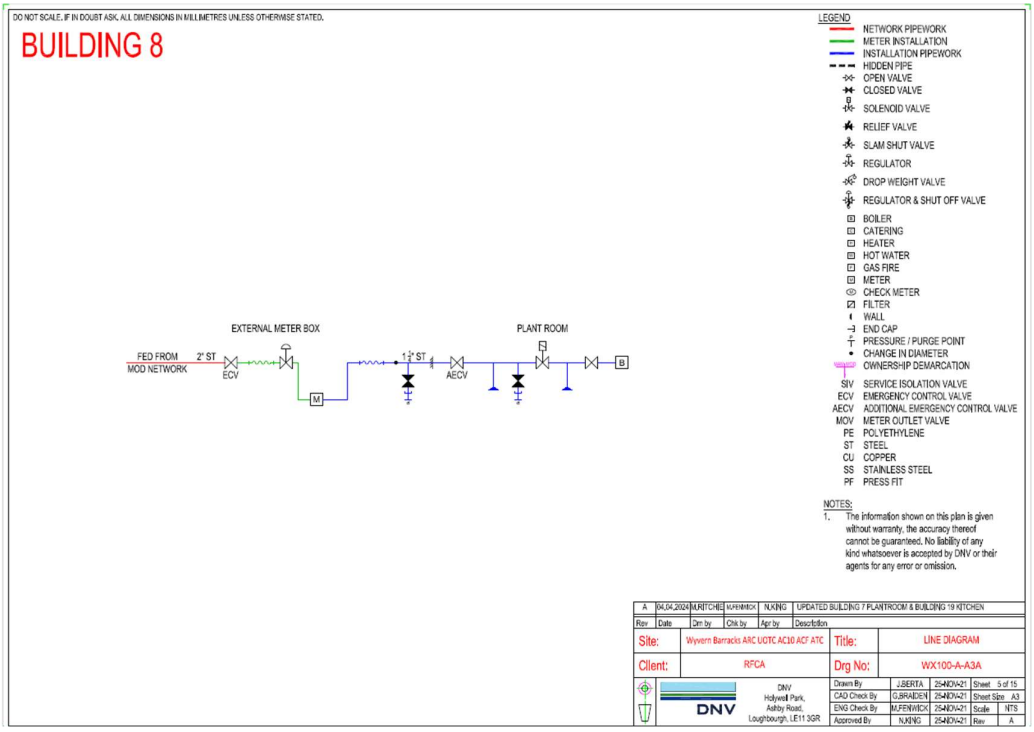
Building 6 and 7



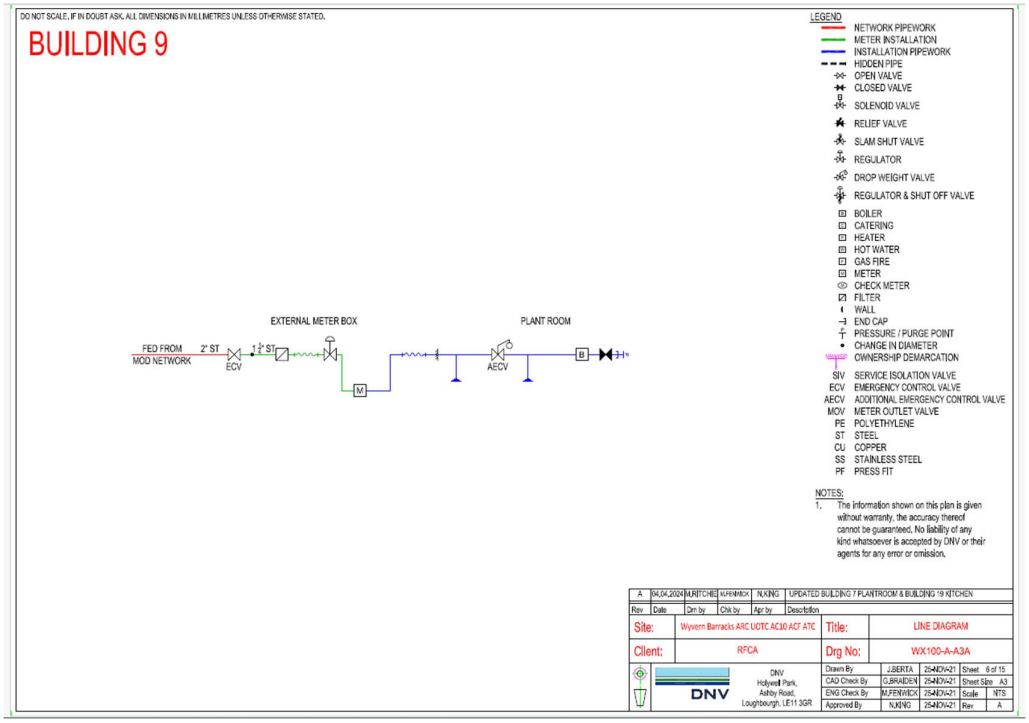
Building 7 Plantroom



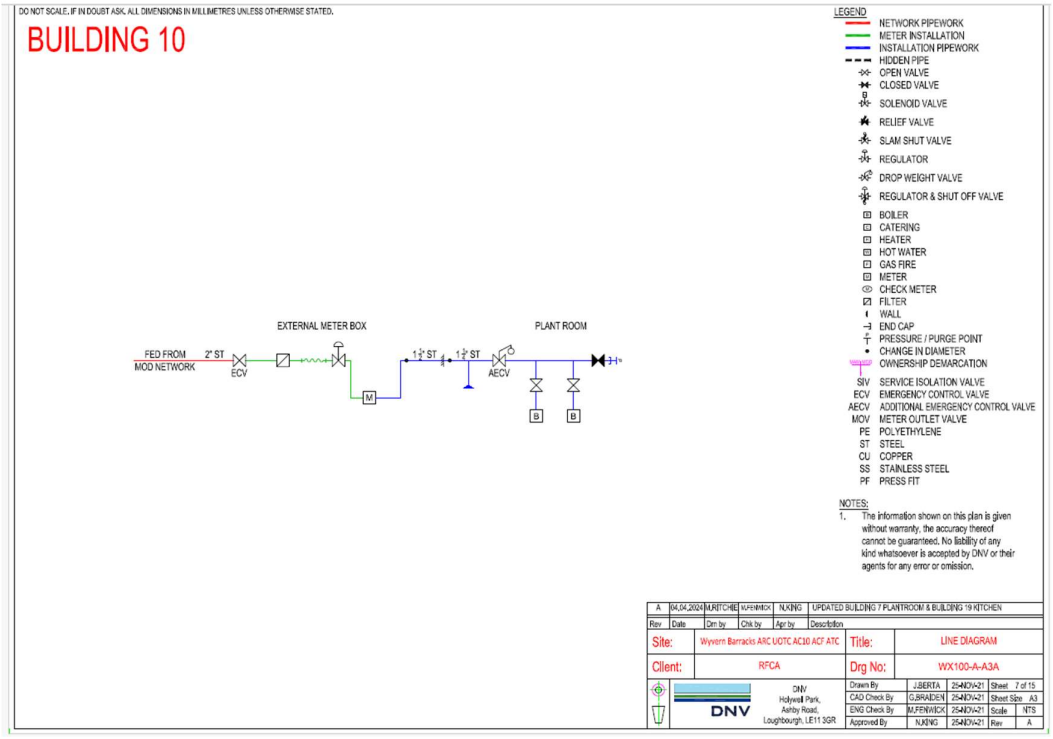
Building 8



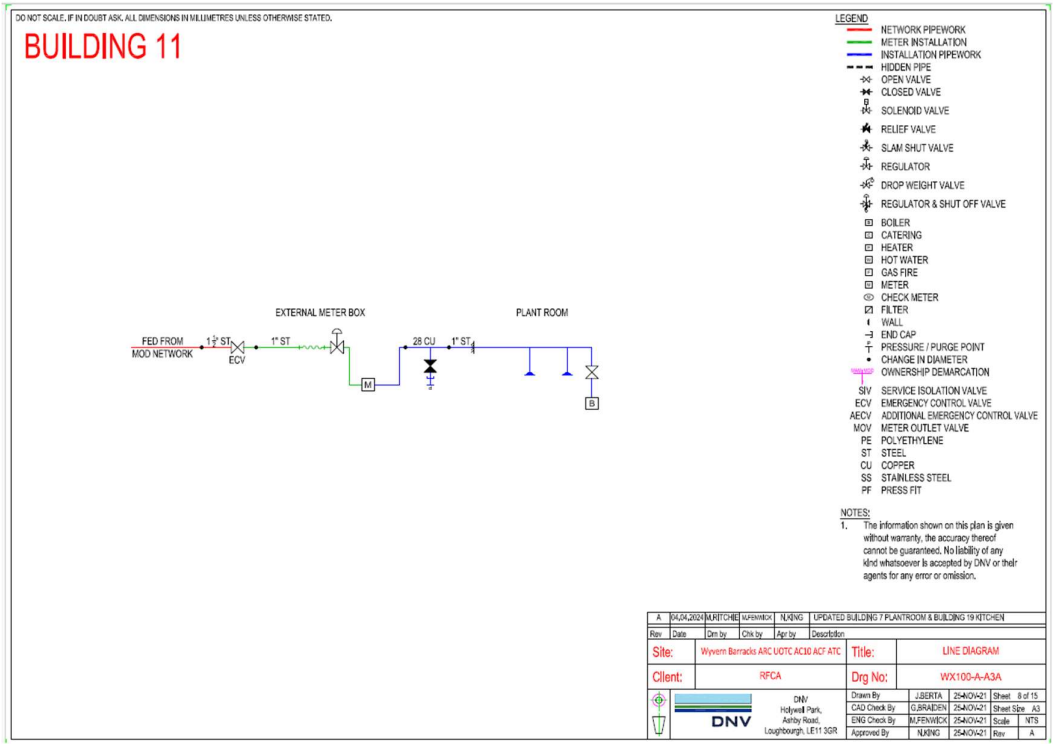
Building 9



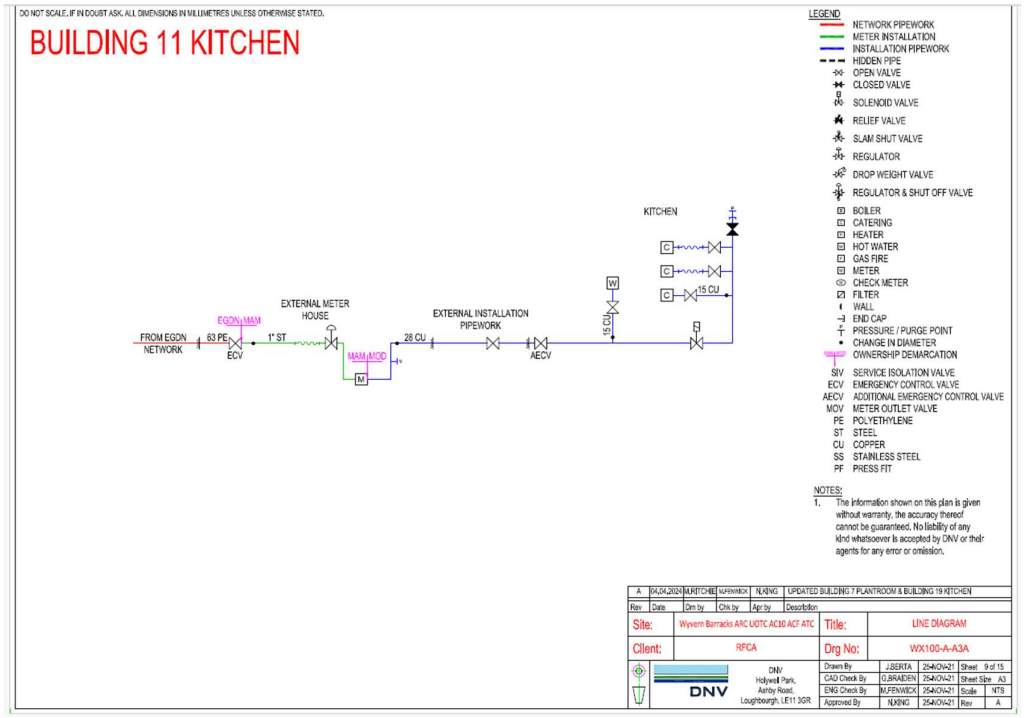
Building 10



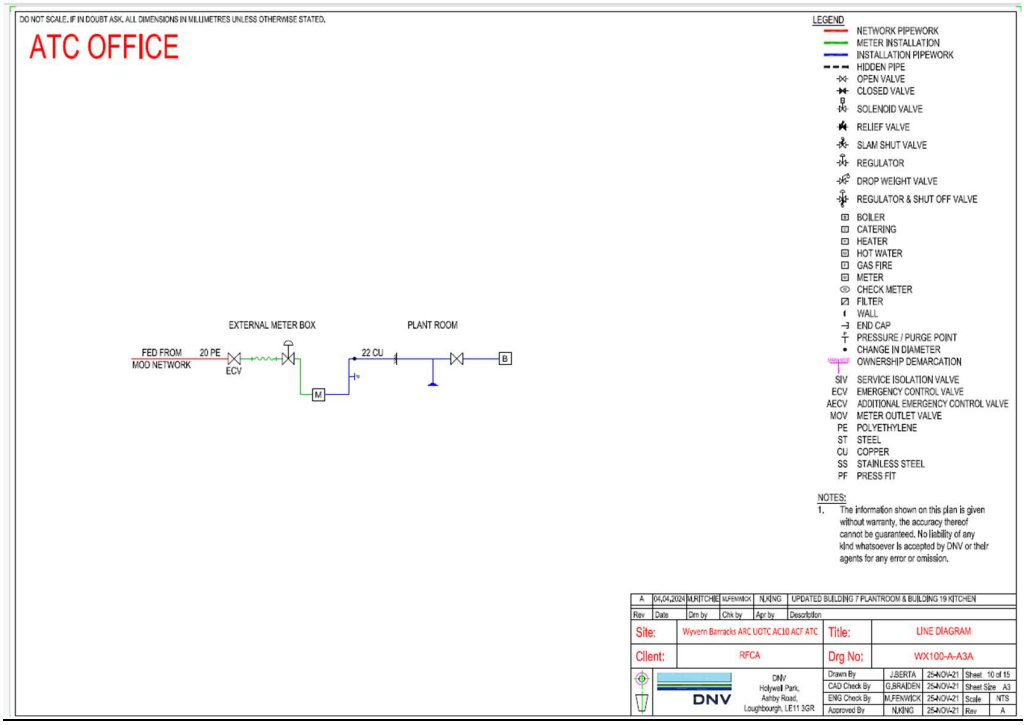
Building 11 Plantroom



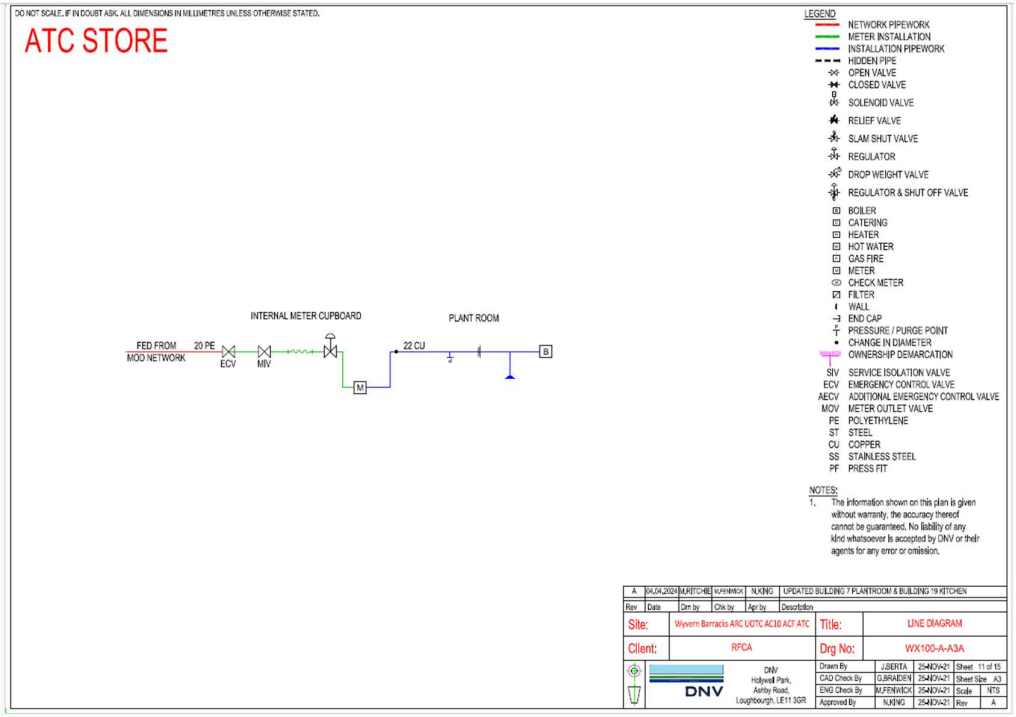
Building 11 Kitchen



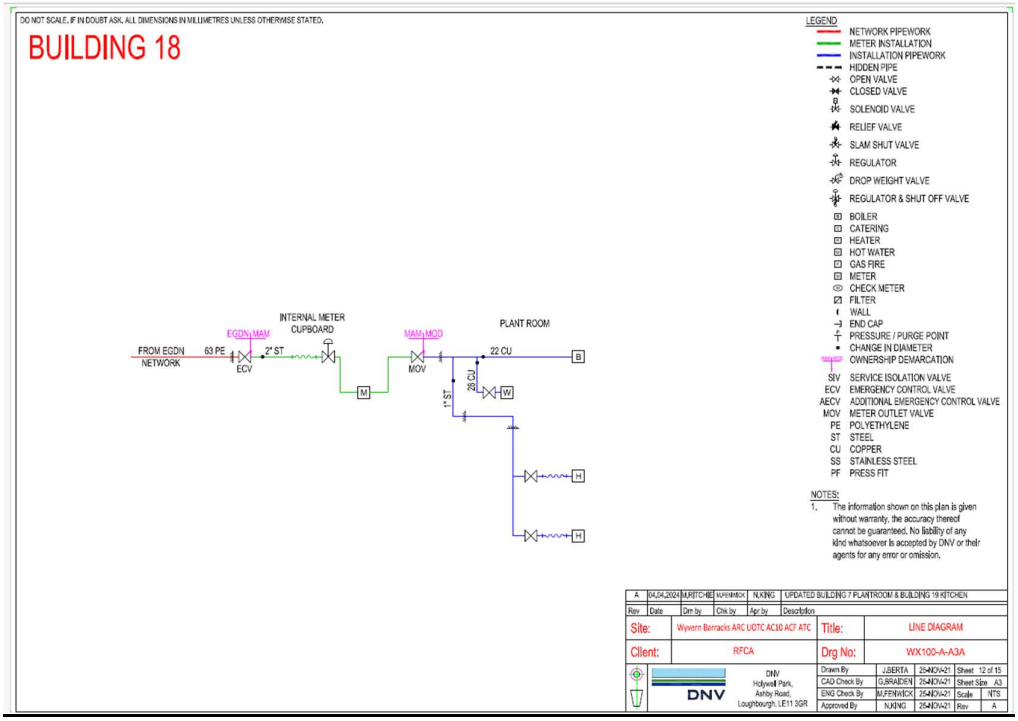
ATC Office



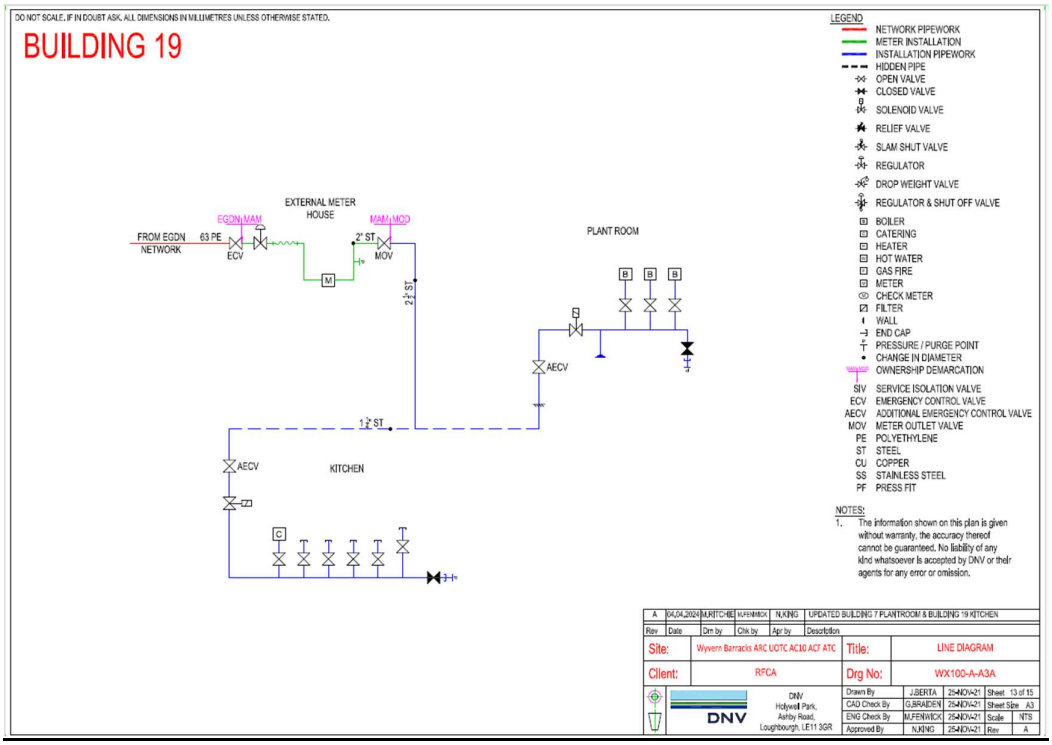
ATC Store



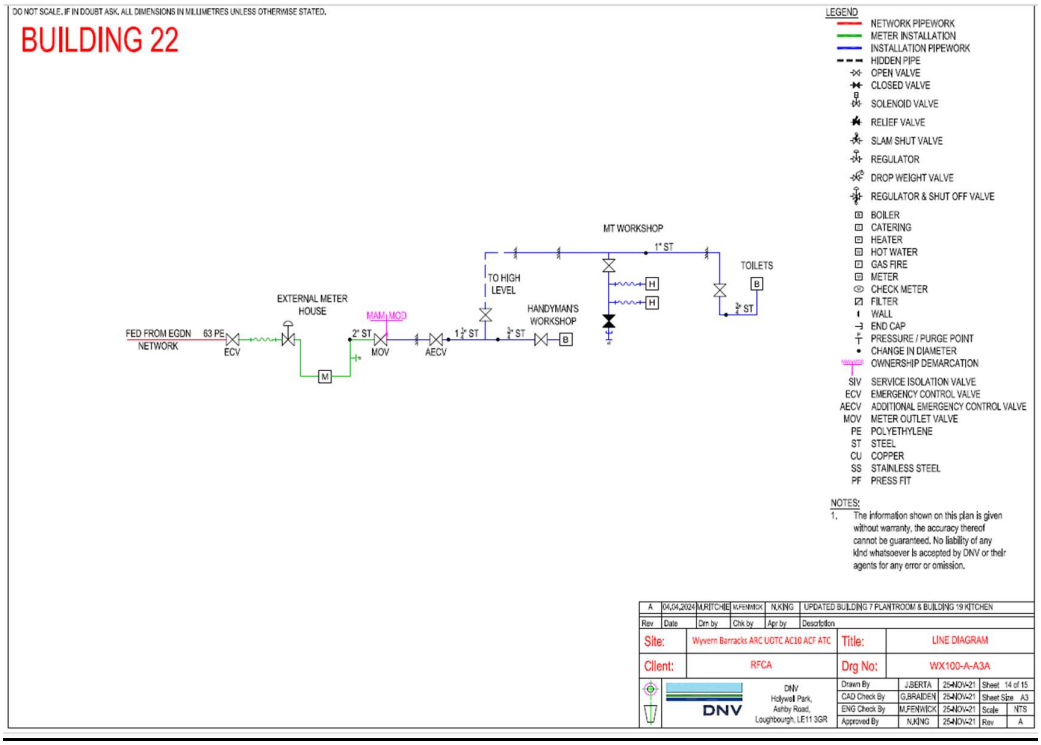
Building 18

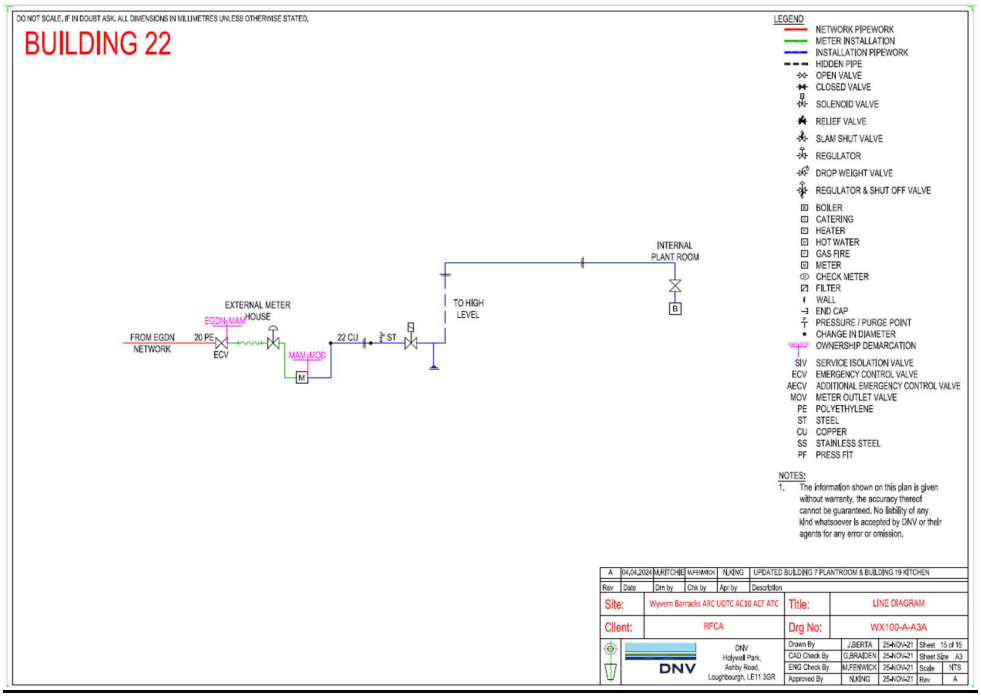


Building 19



Building 22





Gas Network Layout