

## 4.0 THE PROPOSED DEVELOPMENT

### Introduction

4.1 The Proposed Development, as the second phase of the development of the Eberston Moor gas field as described in Chapter 1, aims to carry out the following activities as shown on **Figure 4.1** and **Figure 4.2**:

- Gas production from the Eberston Moor 'A' Well Site; and
- Construction of an 8" (200 mm) diameter steel underground pipeline from the existing Eberston Moor 'A' Well Site to deliver natural gas and condensate to the KGS at East Knapton where it will be used to produce energy.

4.2 The proposed construction sequence and programme of works are outlined in Chapter 6. The current project schedule for the Proposed Development anticipates planning and field development approval in 2013, construction commencing in 2015 and transfer of gas via the pipeline between Eberston Moor 'A' Well Site and KGS commencing in 2016. The gas production associated with the Proposed Development is expected to be up to 15 years duration.

4.3 If, as the Applicant anticipates, the initial phase of development of the Eberston Moor gas field (Eberston Moor EDS) is constructed and operational prior to this Proposed Development (in 2014), the structures and equipment on the Eberston Moor 'A' Well Site will already be in place as shown in **Figure 3.2** and therefore only the pipeline and its connections to the well site and KGS will need to be constructed as part of this Proposed Development. The flare and Lockton Compound will have been decommissioned and restored as part of the Eberston Moor EDS project and will only be considered in terms of cumulative effects as part of this ES as discussed in Chapter 2.

4.4 However, if the Eberston Moor EDS is not granted planning permission, and is not operational prior to construction of this Proposed Development, all the structures and equipment for this Proposed Development required at the well site as well as the pipeline will be constructed. This will occur once the 'sidetrack' to Eberston Moor – 1 well has been drilled under planning permission NYM/2013/0068/FL. The construction activities associated with gas production at the well site and constructing the pipeline are discussed further in Chapter 6.

## Description of the Proposed Development

### Eberston Moor 'A' Well Site

- 4.5 The Eberston Moor 'A' Well Site lies within the Parish of Allerston at the edge of the Dalby Forest approximately 6.5 km to the north of Eberston.
- 4.6 The existing well site will be developed to allow for gas production as shown in **Figure 4.1**. It is anticipated that the volume of gas to be produced will be up to 15 million standard cubic feet per day (mmscf/d). In order to facilitate the construction and development of the Proposed Development, the following facilities listed below will be required:
- Construction compound;
  - Lay down area for pipes;
  - Workforce facilities – messing catering and offices;
  - Security cabin;
  - Parking spaces;
  - Potable water tank; and
  - 1 MW natural gas fuelled electric generator.
- 4.7 The main equipment at Eberston Moor 'A' Well Site will include:
- Gas well;
  - Water disposal well;
  - Site office;
  - Fire water tank (50 cubic metres);
  - Pipeline pig trap area;
  - Water separator building;
  - Gas fired heater;
  - Water storage tank; and
  - 1 MW natural gas fuelled electric generator.
- 4.8 All storage tanks, loading and unloading areas will be sited on an impermeable and curbed surface with suitable drains, catchment and hydrocarbon separation equipment. A specially designed interceptor will be provided to clean rain and surface water within the site drains before leaving the well site through the soakaway.
- 4.9 Electrical distribution, control, shutdown systems, telecommunications, instrument air and

wellhead hydraulic control panel will be housed within the site office (normally unmanned).

- 4.10 The gas, produced water and condensate will flow from the well head on the Ebberston Moor – 1 well through a flow line, into the three phase separator. The inlet separator will operate at the pipeline pressure with the rate of flow limited by the energy generating capacity at KGS. The three-phase wellhead separator will then separate the gas and condensate from the produced water, before transfer of the gas and condensate along the pipeline to the KGS. The wellhead pressure will provide the driving force for the liquid and gas flow. Pig launchers will allow the pipeline to be inspected and/maintained but will not be used during normal operation.
- 4.11 Methanol will be stored in the well site storage tank and will be injected by pump immediately downstream of the wellhead and upstream of the choke valve to reduce hydrate formation. In addition a corrosion inhibitor will be injected at the wellhead.
- 4.12 The Proposed Development will be monitored by a System Control and Data Acquisition (SCADA) system and safety systems will be remotely operated via a telephone or satellite link to KGS. The operation of the Proposed Development will be carried out by the KGS management team as it will be remotely operated with operators available at KGS to respond to alarms and to carry out routine inspection and maintenance.

#### *Produced Water Disposal*

- 4.13 Any water produced during the production of gas will be disposed of via a water disposal well within the well site. Planning permission (NYM/2013/0068/FL) has already been granted for two gas appraisal wells and it is intended that one of the wells will be used for water disposal. Therefore separate planning permission will be sought to use the existing well cellar to drill a borehole for water disposal use, if required at a later date. The use of the borehole through the existing cellar will not be assessed further as part of this ES.

#### *Heights of Buildings and Structures at Ebberston Moor 'A' Well Site*

- 4.14 **Table 4.1** provides the approximate heights of the tallest structures on the well site.

**Table 4.1: Approximate Heights of Structures/Buildings**

Structure/Buildings	Height (m)
Inlet separator	1.8m
Gas fired heater	1.8m
Water storage tank	4.8m
Site Office (to apex)	3.5m

Pipeline from Eberston Moor 'A' Well Site to KGS

- 4.15 The length of the pipeline route is 15.3 km. Therefore, the Proposed Development lies outside the remit of the National Infrastructure Directorate of the Planning Inspectorate which deals with nationally significant infrastructure projects including cross-country pipelines (that is, 16 km or more in length) (Schedule 21 of the Planning Act 2008) (Ref. 4.1).
- 4.16 One underground 8" diameter pipeline will be constructed from Eberston Moor 'A' Well Site to KGS to transport gas and hydrocarbon condensate. The pipeline will be accompanied by a fibre optic cable within the construction working width. The construction working width will be 30m across as shown on **Figure 4.2**. A typical cross-section for the pipeline is shown on **Figure 4.3**.
- 4.17 Once construction has been completed, a 10m easement will be maintained during the operational lifetime of the proposed pipeline for maintenance purposes.

KGS

- 4.18 The gas and condensate will be separated after arriving at KGS using existing facilities at the KGS. The gas will be used as fuel-gas to generate power while the condensate will be collected and then transported off site by tanker for appropriate disposal.

Access

- 4.19 Access to Eberston Moor 'A' Well Site is from the A170 via Eberston Lane and Eberston Common Lane. No unauthorised vehicles associated with the Proposed Development will use the Dalby Forest Drive. Eberston Common Lane and Eberston Lane are unclassified roads with passing places. Approximately 100m north of Givendale Head Farm, Eberston Common Lane becomes an unimproved public highway (gravel track). There is already an established access using this route to Eberston Moor 'A' Well Site and the adjacent Northern Gas Networks (NGN) Lockton Compound.

4.20 Access to the pipeline route is from the local road network including: A170; B1415 Penniston Lane; Allerston Lane; Marishes Lane and B1258 Malton Road where the pipeline route crosses these roads.

#### Parking

4.21 Eighteen car parking spaces are already provided at Eberston Moor 'A' Well Site which will be retained and used during the Proposed Development. There will be no car parking spaces available along the pipeline route.

#### Landscaping

4.22 The landscape strategy for the Proposed Development has been designed with particular consideration to the topography, landscape and ecological constraints and opportunities identified on the Assessment Site. Landscaping works will involve some ground modelling works associated with careful felling of woodland. Elsewhere within the Assessment Site, works will include soil preparation, tree and vegetation planting and seeding once the pipeline has been constructed. The existing screening along the frontage with the Eberston Common Lane will be retained and enhanced where possible.

#### Sustainable Drainage Measures

4.23 Sustainable Drainage Systems (SuDS) will be used to reduce flood risk, improve water quality, assist groundwater recharge whilst also providing amenity and wildlife benefits.

4.24 The existing drainage system at Eberston Moor 'A' Well Site and Lockton Compound will be upgraded to ensure that the Assessment Site is capable of safely containing, separating and disposing of both rainwater and any fluid spills from the tanks and piping. A closed drain system will recover and store any liquids drained from the process equipment, which will be disposed of in an approved manner. Surface water site drains will be sent to a receiving interceptor and then routed to a clean water discharge point. See Chapter 12 for more details.

4.25 Along the northern extent of the pipeline route between the well site and the A170 drainage will be reliant on the natural drainage of the land with the majority of surface water infiltrating into the ground. In contrast south of the A170 where the ground is impermeable, existing field drains will be modified to ensure that drainage of the fields remains unaffected by the presence of the pipeline. There will be no modifications to the drainage at KGS.

### Utilities

- 4.26 The Proposed Development will connect into the existing telephone network in close proximity to Ebberston Moor 'A' Well Site, with new infrastructure installed beneath roads, and verges wherever possible. Electric power will be generated on the well site by a 1 MW natural gas fuelled engine driven generator. Use of natural gas as fuel instead of diesel for power generation reduces the carbon footprint of the Proposed Development. Natural gas will also be used on the well site to fuel a heater to keep the gas from forming hydrates in the plant inlet.









### Lighting















- 4.27 The facility will not be lit at night except in emergencies or for urgent maintenance and therefore has not been described or discussed further in this ES.

### Waste Management

- 4.28 The Proposed Development will provide an appropriate plan and facilities for the efficient collection, storage and transport of waste to an approved and licensed waste company for recycling or disposal. Adequate space for refuse for storage and collection will be provided within the Proposed Development as required by NYCC, NYMNPA and RDC.



-  EXISTING PLANTATION WITH ENRICHMENT PLANTING - REGENERATION PHASE MONITORED OVER 5-10YRS
-  EXISTING FENCE
-  SUBSOIL BUND (approx. 2300m<sup>3</sup>) FORMED AT MAXIMUM GRADIENT OF 1:3 TO 3m IN HEIGHT
-  TOPSOIL BUND (approx. 1300m<sup>3</sup>) FORMED AT MAXIMUM GRADIENT OF 1:3 TO 2m IN HEIGHT
-  EXISTING TREES
-  EXISTING GROUND COVER
-  EXISTING HEDGE
-  EXISTING STRUCTURAL PLANTING

-  1 Existing Gas Well
-  2 Existing NGN Building
-  3 Existing Car Parking 18 spaces
-  4 Existing NGN Entrance
-  5 Existing LTZ Pipe manifold
-  6 Fire Water Tank: 50 Cubic Meters
-  7 Existing Well site Entrance
-  8 Existing Drilling Cellars
-  9 Water Storage Tank
-  10 Gas Fired Heater
-  11 Water Separator Building
-  12 Pipeline Pig Trap Area
-  13 Fire Water Tank: 50 Cubic Meters
-  14 Gas Generator

 Well Site Area A - 11,856 sqm

Figure 4.1  
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Project  
**EBBERSTON MOOR WELLSITE TO KNAPTON PIPELINE**

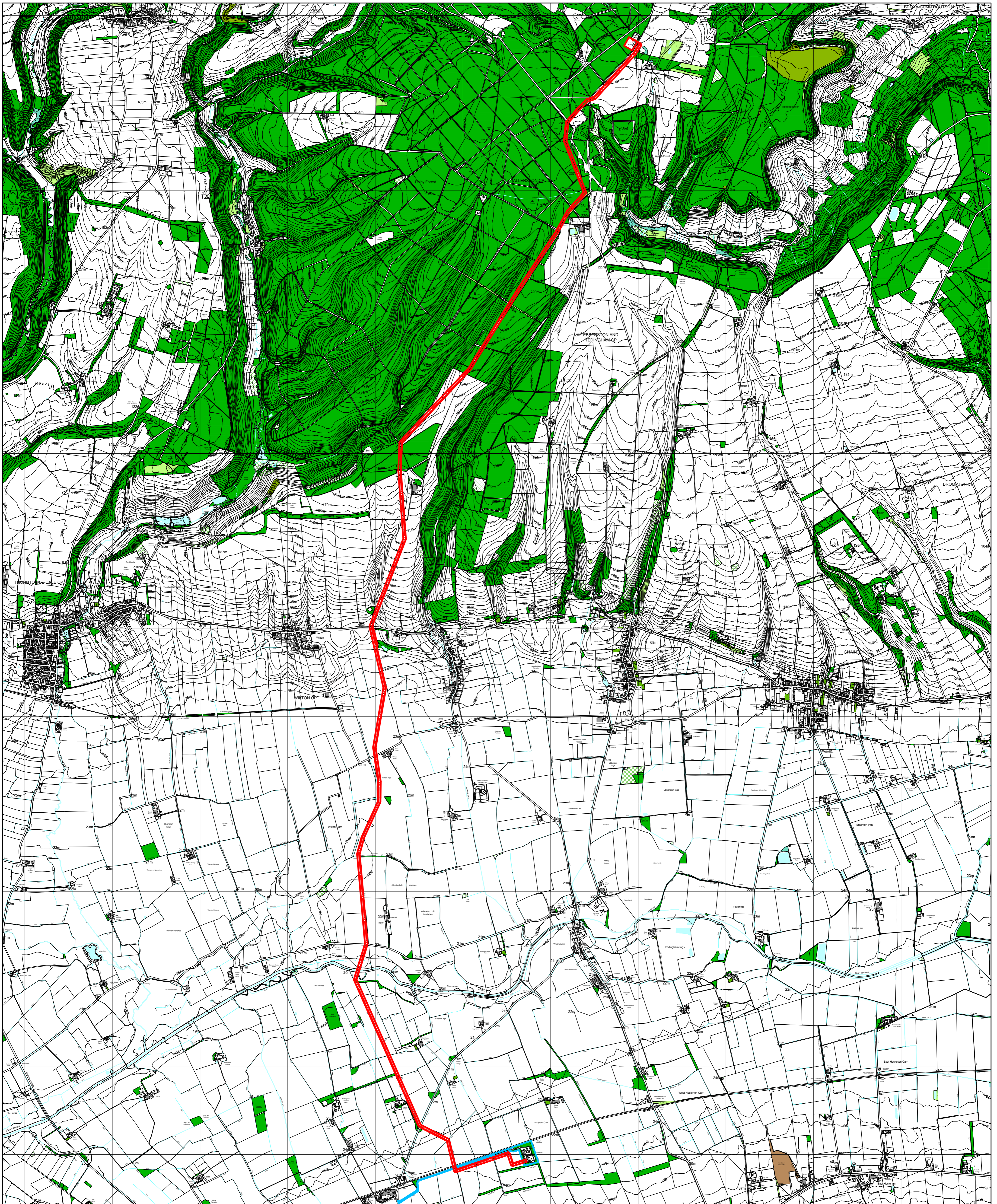
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**PROPOSED SITE LAYOUT  
 EBBERSTON MOOR 'A' WELL SITE**

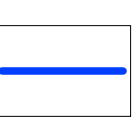
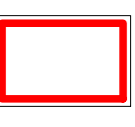
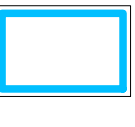
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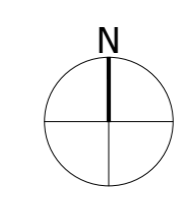


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- LEGEND**
-  Proposed Pipeline Route
  -  Application Site Boundary
  -  Other Land within Clients Ownership



Project  
**Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline**  
 Drawing Title  
**Site Location Plan**

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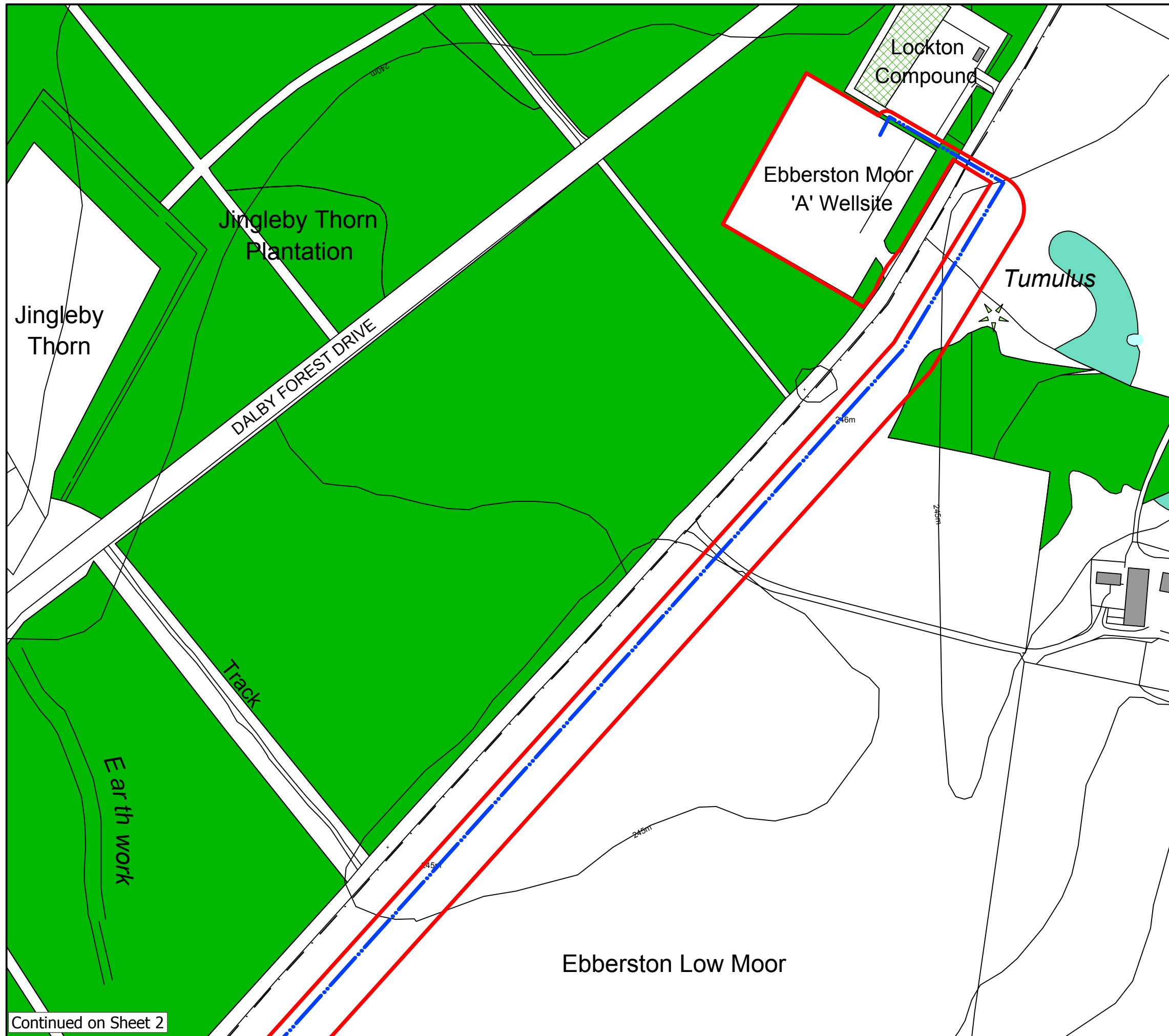
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**Figure 4.2a**

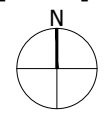




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**LEGEND**

- Application Site Boundary
- Proposed Pipeline Route

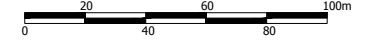


**Figure 4.2b**

Project  
 Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline

Drawing Title  
 Detailed Pipeline Route  
 Sheet 1 of 15

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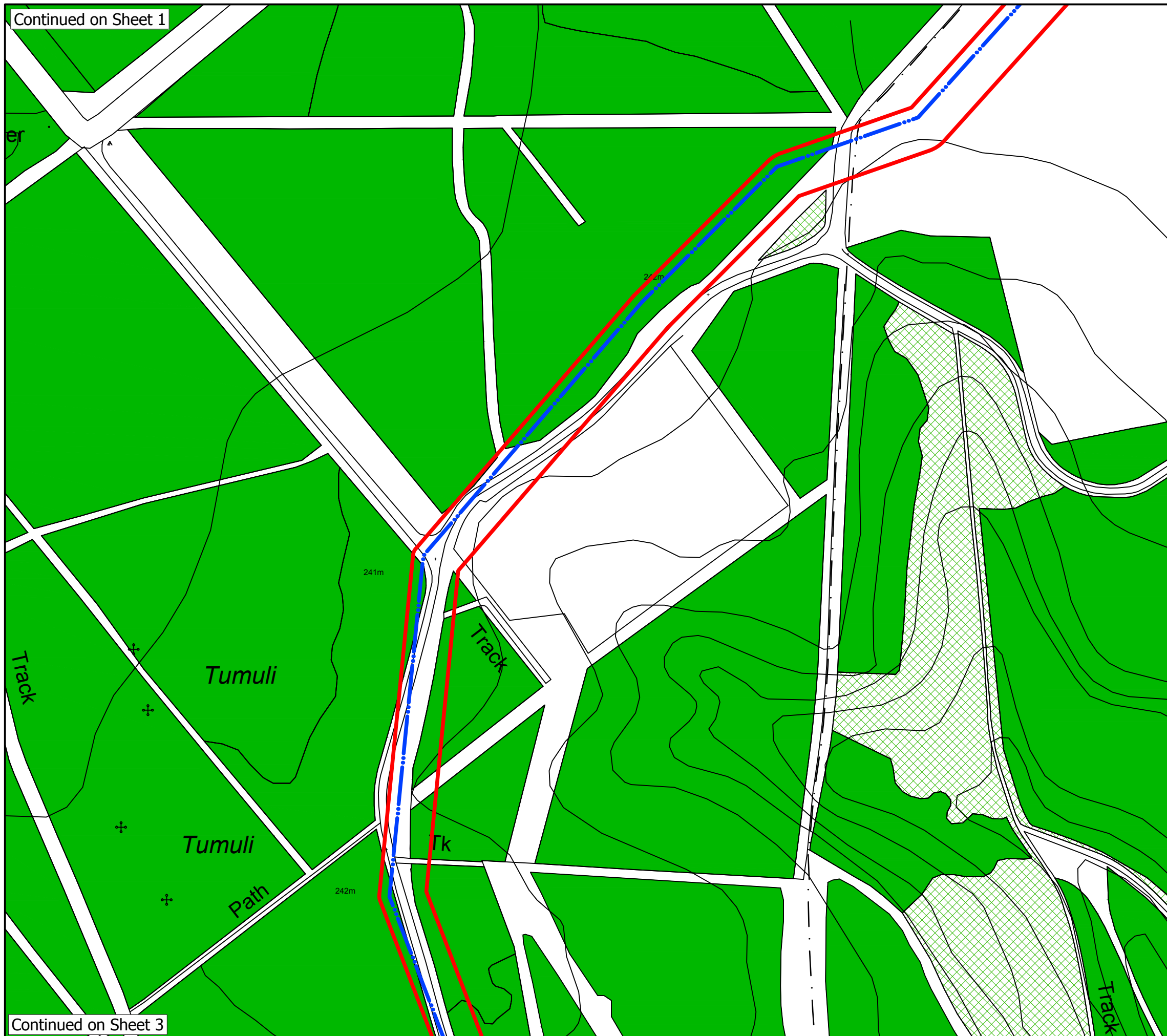
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
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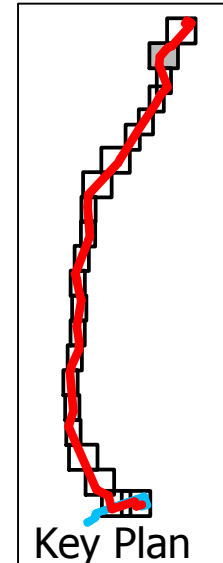
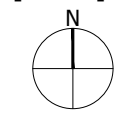


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**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route

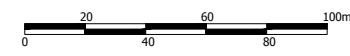


**Figure 4.2c**

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**Ebberston Moor 'A' Well Site to Knapton Gas Pipeline**

Drawing Title  
**Detailed Pipeline Route**  
 Sheet 2 of 15

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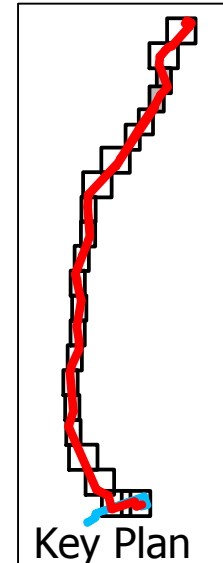
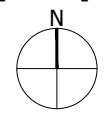




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**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route
-  North York Moors National Park

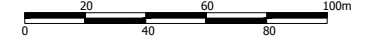


**Figure 4.2d**

Project  
 Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline

Drawing Title  
 Detailed Pipeline Route  
 Sheet 3 of 15

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






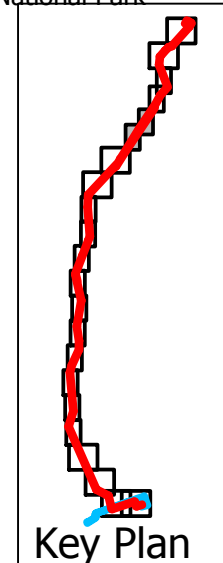
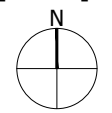
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**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route
-  Moorland Energy 300mm Gas Pipeline
-  Moorland Energy 100mm Liquid Pipeline
-  Moorland Energy Working Width
-  North York Moors National Park

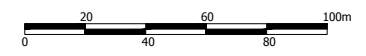


**Figure 4.2e**

Project  
 Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline

Drawing Title  
 Detailed Pipeline Route  
 Sheet 4 of 15

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




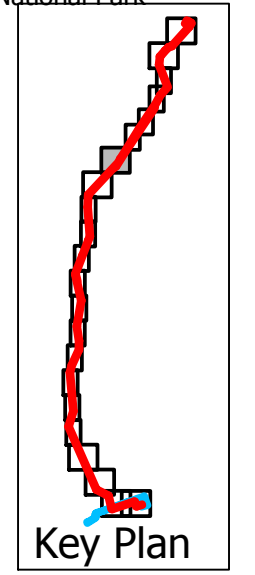
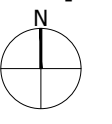
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### LEGEND

-  Application Site Boundary
-  Proposed Pipeline Route
-  Moorland Energy 300mm Gas Pipeline
-  Moorland Energy 100mm Liquid Pipeline
-  Moorland Energy Working Width
-  North York Moors National Park

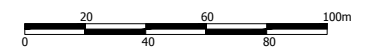


## Figure 4.2f

Project  
**Ebberston Moor 'A' Well Site to Knapton Gas Pipeline**

Drawing Title  
**Detailed Pipeline Route**  
 Sheet 5 of 15

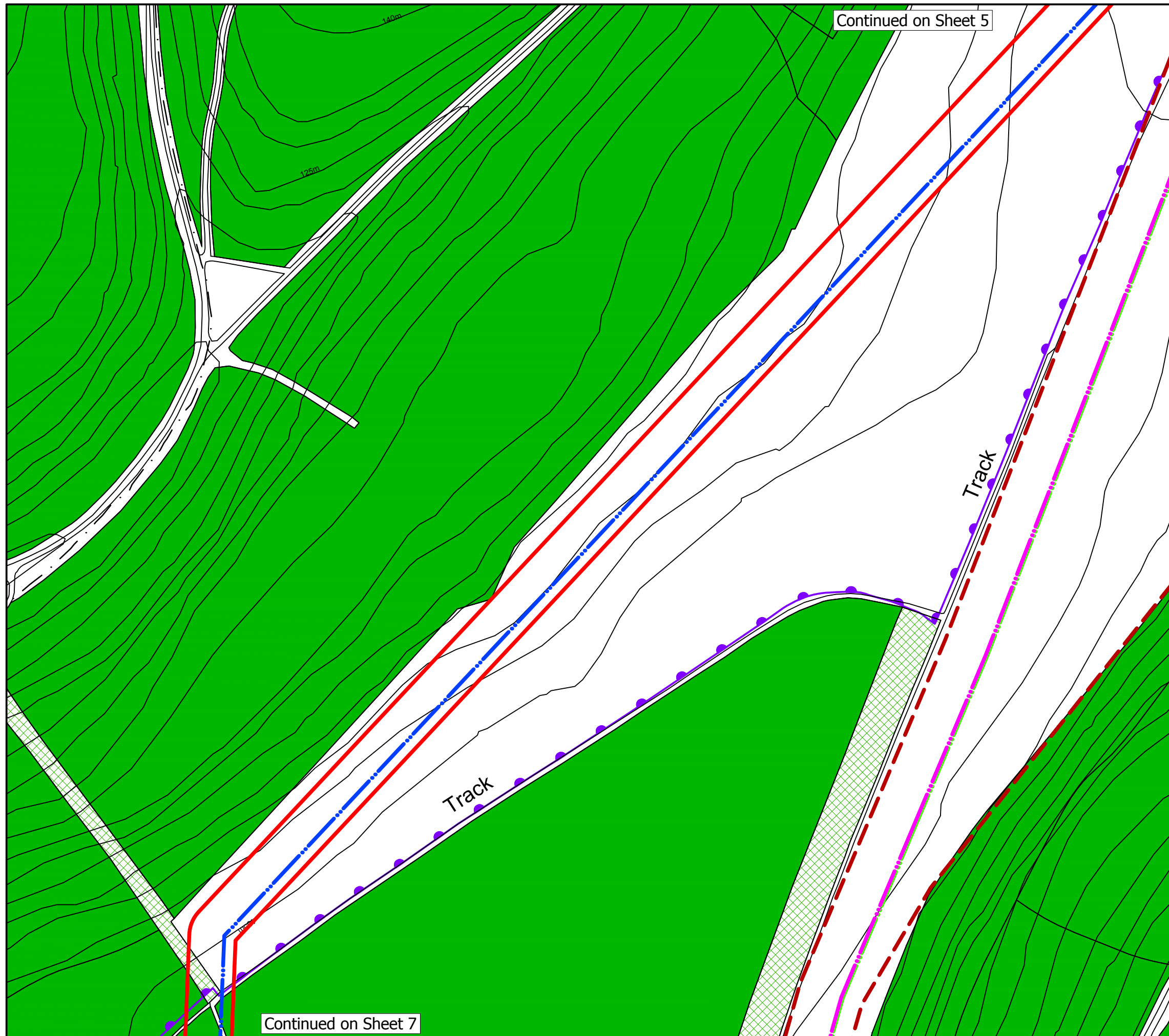
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




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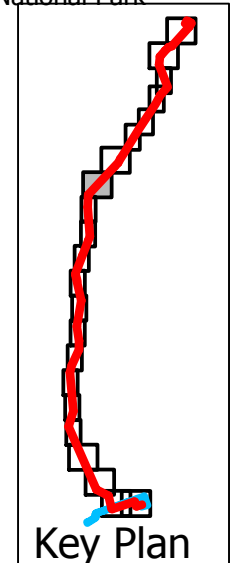
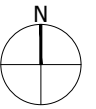




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**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route
-  Moorland Energy 300mm Gas Pipeline
-  Moorland Energy 100mm Liquid Pipeline
-  Moorland Energy Working Width
-  North York Moors National Park

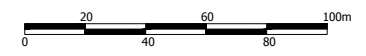


**Figure 4.2g**

Project  
 Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline

Drawing Title  
 Detailed Pipeline Route  
 Sheet 6 of 15

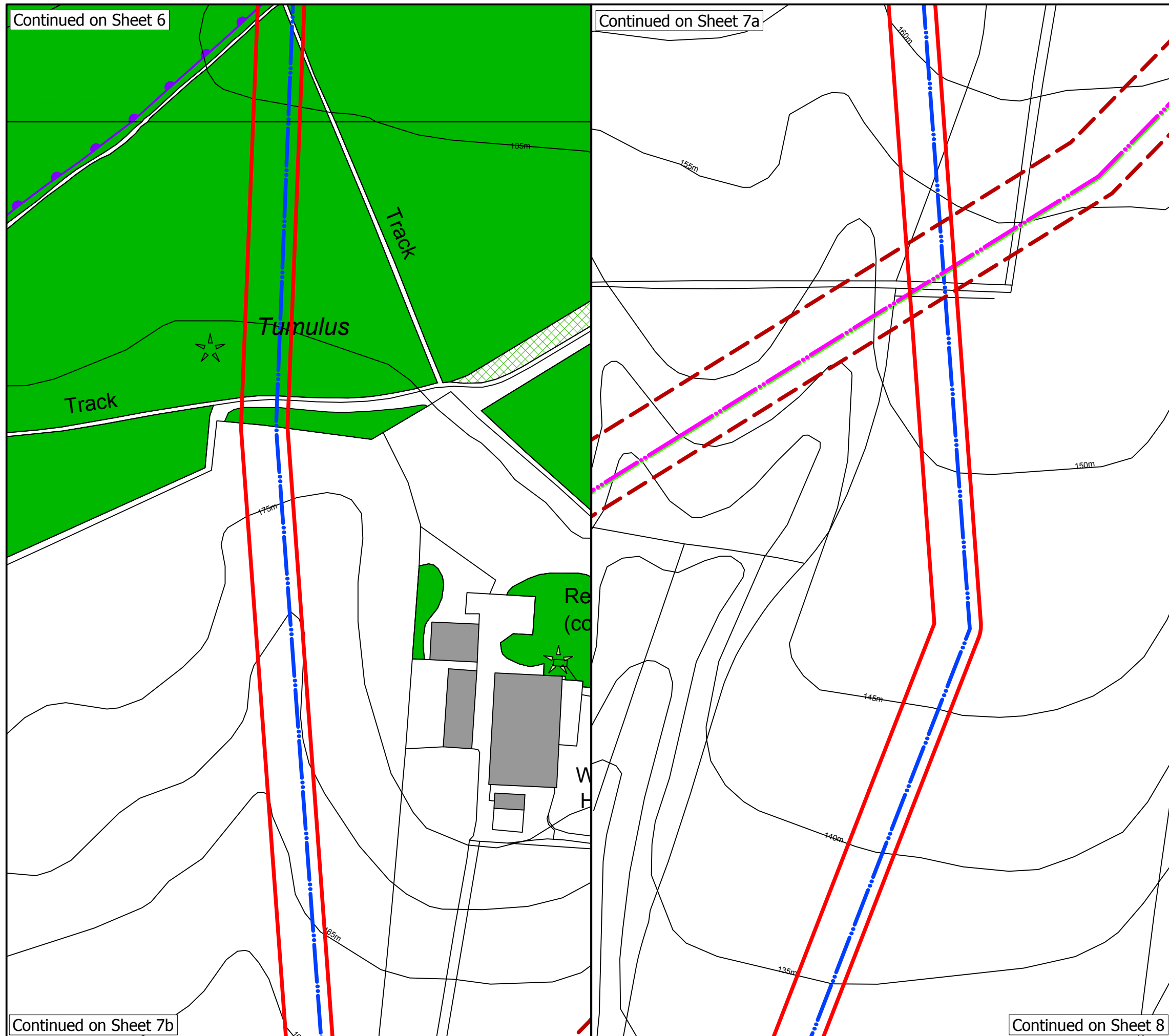
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




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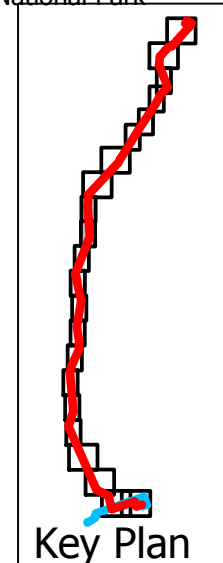
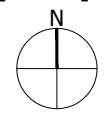




The scaling of this drawing cannot be assured  
 Revision \_\_\_\_\_ Date \_\_\_\_\_ Drn \_\_\_\_\_ Ckd \_\_\_\_\_

**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route
-  Moorland Energy 300mm Gas Pipeline
-  Moorland Energy 100mm Liquid Pipeline
-  Moorland Energy Working Width
-  North York Moors National Park

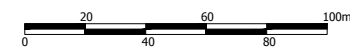


**Figure 4.2h**

Project  
**Ebberston Moor 'A' Well Site to Knapton Gas Pipeline**

Drawing Title  
**Detailed Pipeline Route**  
**Sheet 7 of 15**

Date	Scale	Drawn by	Check by
06.08.2013	1:2,500 @A3	ML	PF
Project No	Drawing No	Revision	
19819	E107	-	



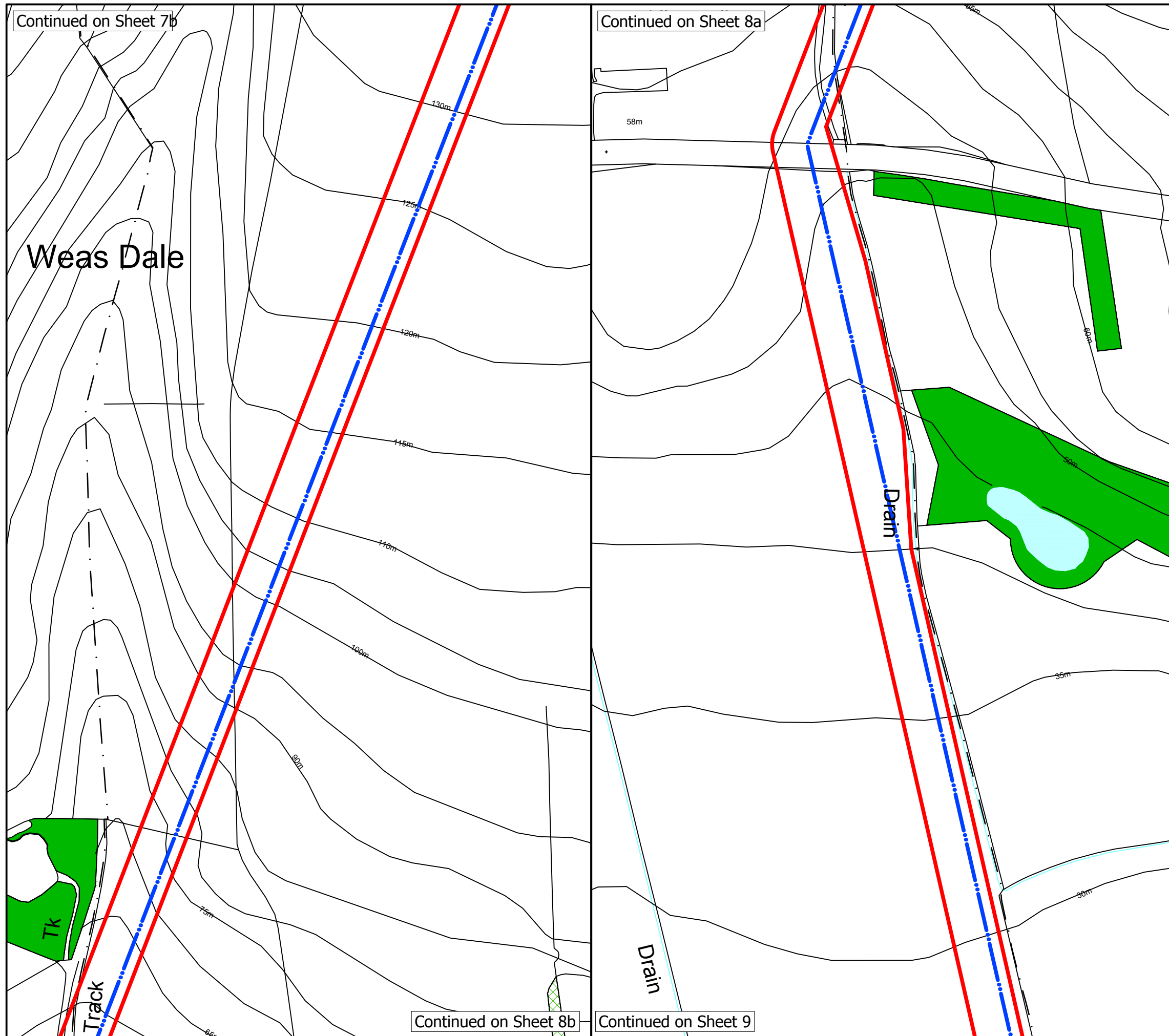
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


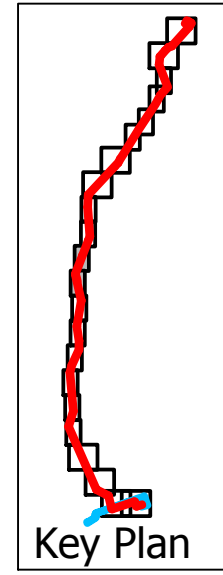
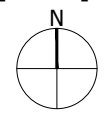
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 Revision \_\_\_\_\_ Date \_\_\_\_\_ Drn \_\_\_\_\_ Ckd \_\_\_\_\_

**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route

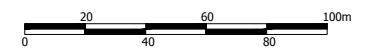


**Figure 4.2i**

Project  
 Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline

Drawing Title  
 Detailed Pipeline Route  
 Sheet 8 of 15

Date	Scale	Drawn by	Check by
06.08.2013	1:2,500 @A3	ML	PF
Project No	Drawing No	Revision	
19819	E108	-	



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


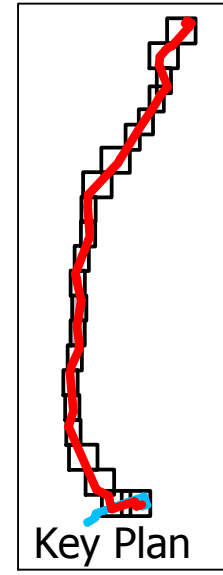
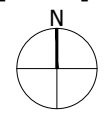




The scaling of this drawing cannot be assured  
 Revision \_\_\_\_\_ Date \_\_\_\_\_ Drn \_\_\_\_\_ Ckd \_\_\_\_\_

**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route

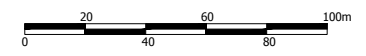


**Figure 4.2j**

Project  
 Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline

Drawing Title  
 Detailed Pipeline Route  
 Sheet 9 of 15

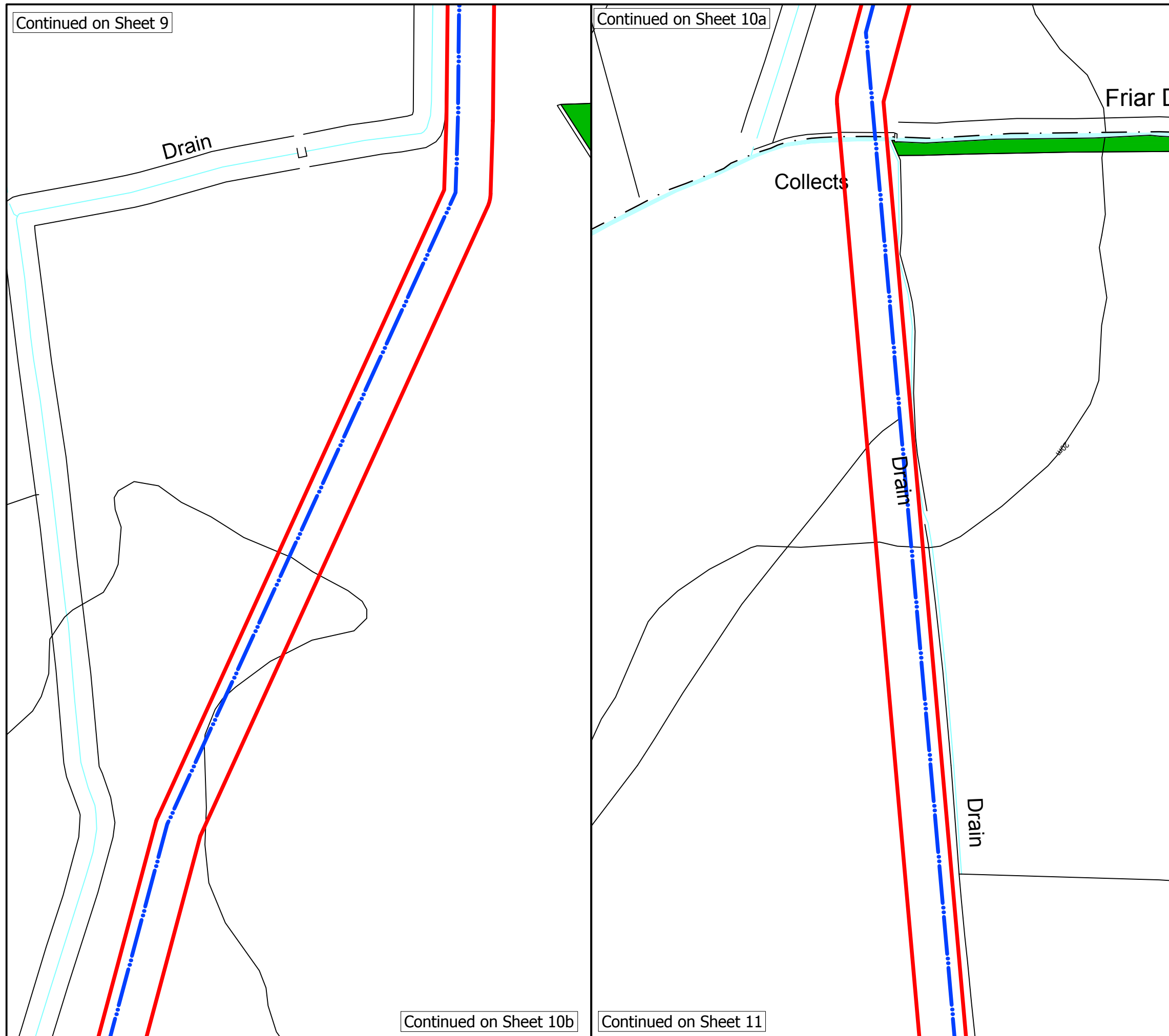
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Project No	Drawing No	Revision	
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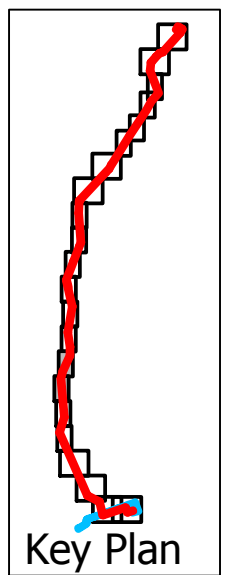
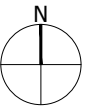




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 Revision \_\_\_\_\_ Date \_\_\_\_\_ Drn \_\_\_\_\_ Ckd \_\_\_\_\_

**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route

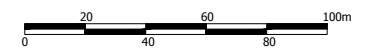


**Figure 4.21**

Project  
 Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline

Drawing Title  
 Detailed Pipeline Route  
 Sheet 10 of 15

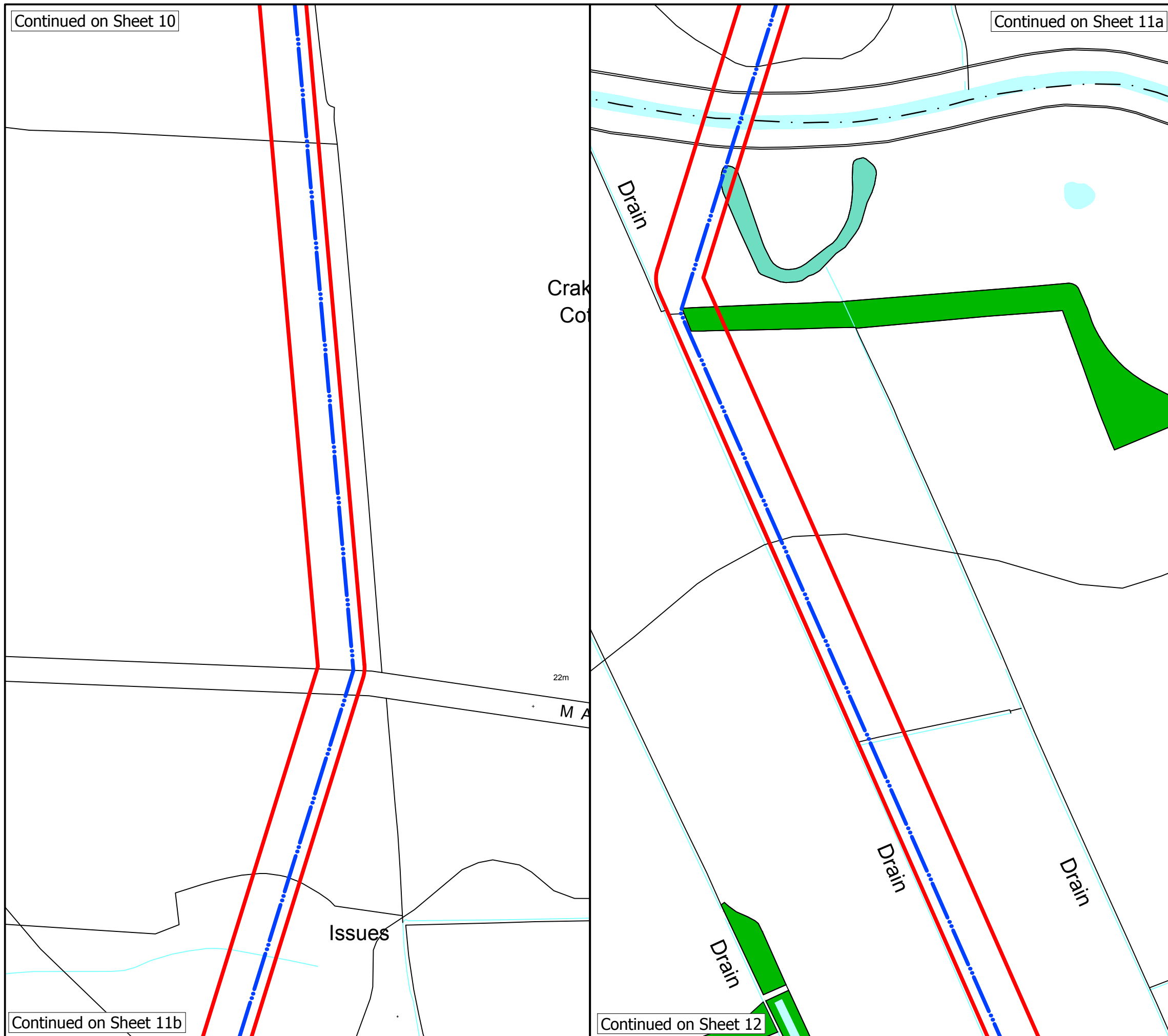
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Project No	Drawing No	Revision	
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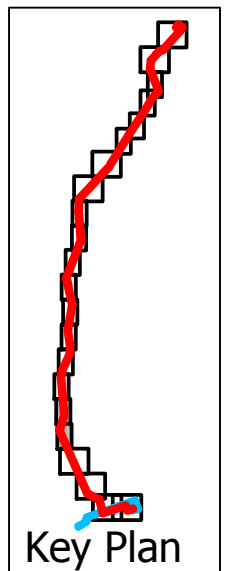
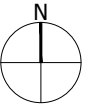




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 Revision \_\_\_\_\_ Date \_\_\_\_\_ Drn \_\_\_\_\_ Ckd \_\_\_\_\_

**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route



**Figure 4.21**

Project  
 Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline

Drawing Title  
 Detailed Pipeline Route  
 Sheet 11 of 15

Date 06.08.2013 Scale 1:2,500 @A3 Drawn by ML Check by PF

Project No 19819 Drawing No E111 Revision -



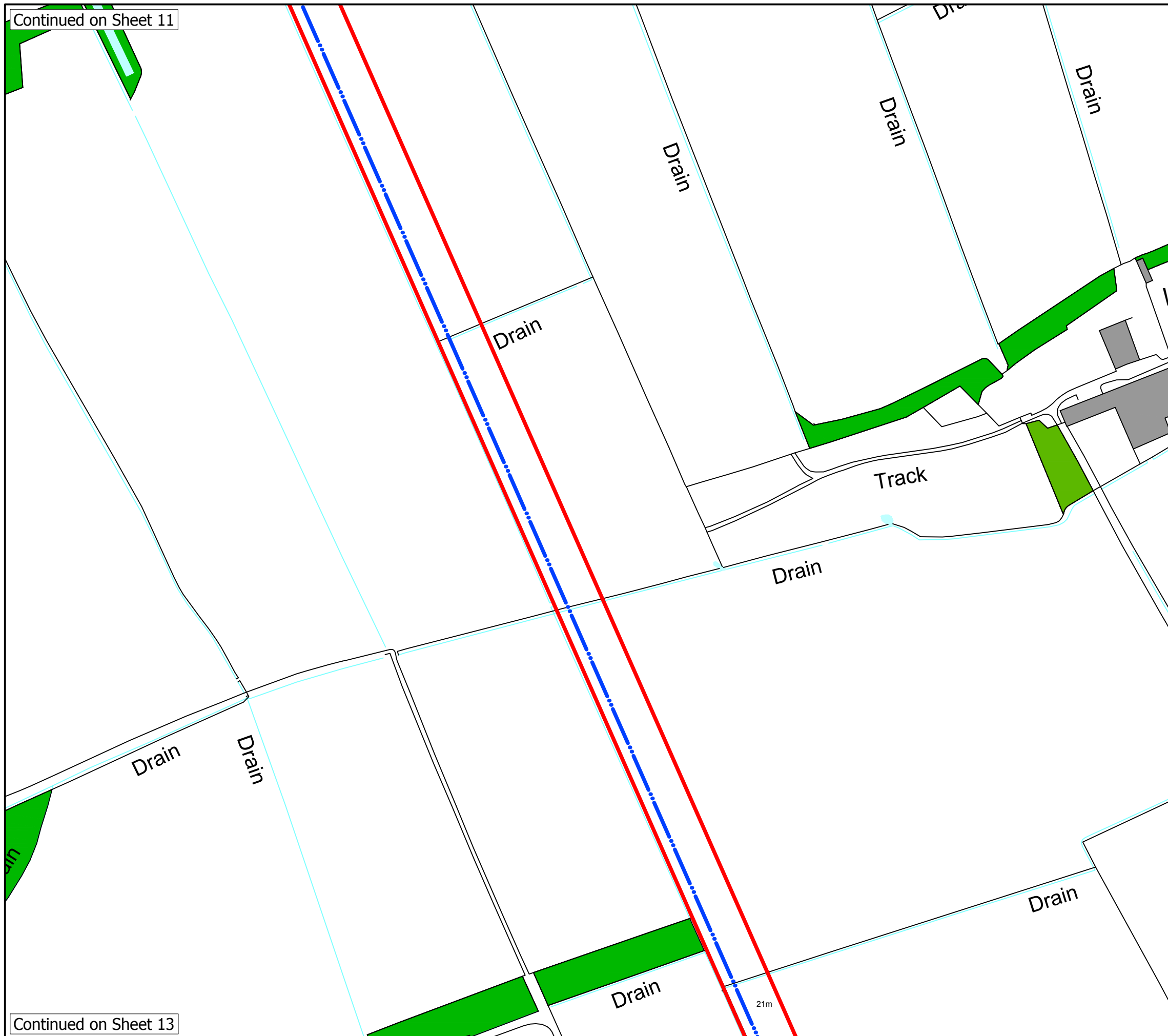
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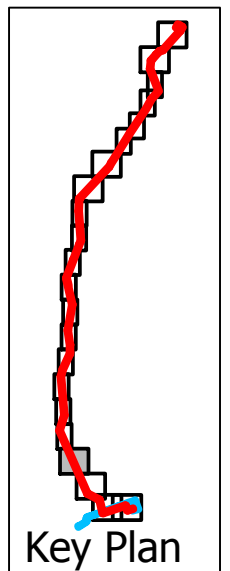
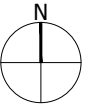
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**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route



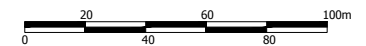
**Figure 4.2m**

Project  
 Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline

Drawing Title  
 Detailed Pipeline Route  
 Sheet 12 of 15

Date 06.08.2013 Scale 1:2,500 @A3 Drawn by ML Check by PF

Project No 19819 Drawing No E112 Revision -



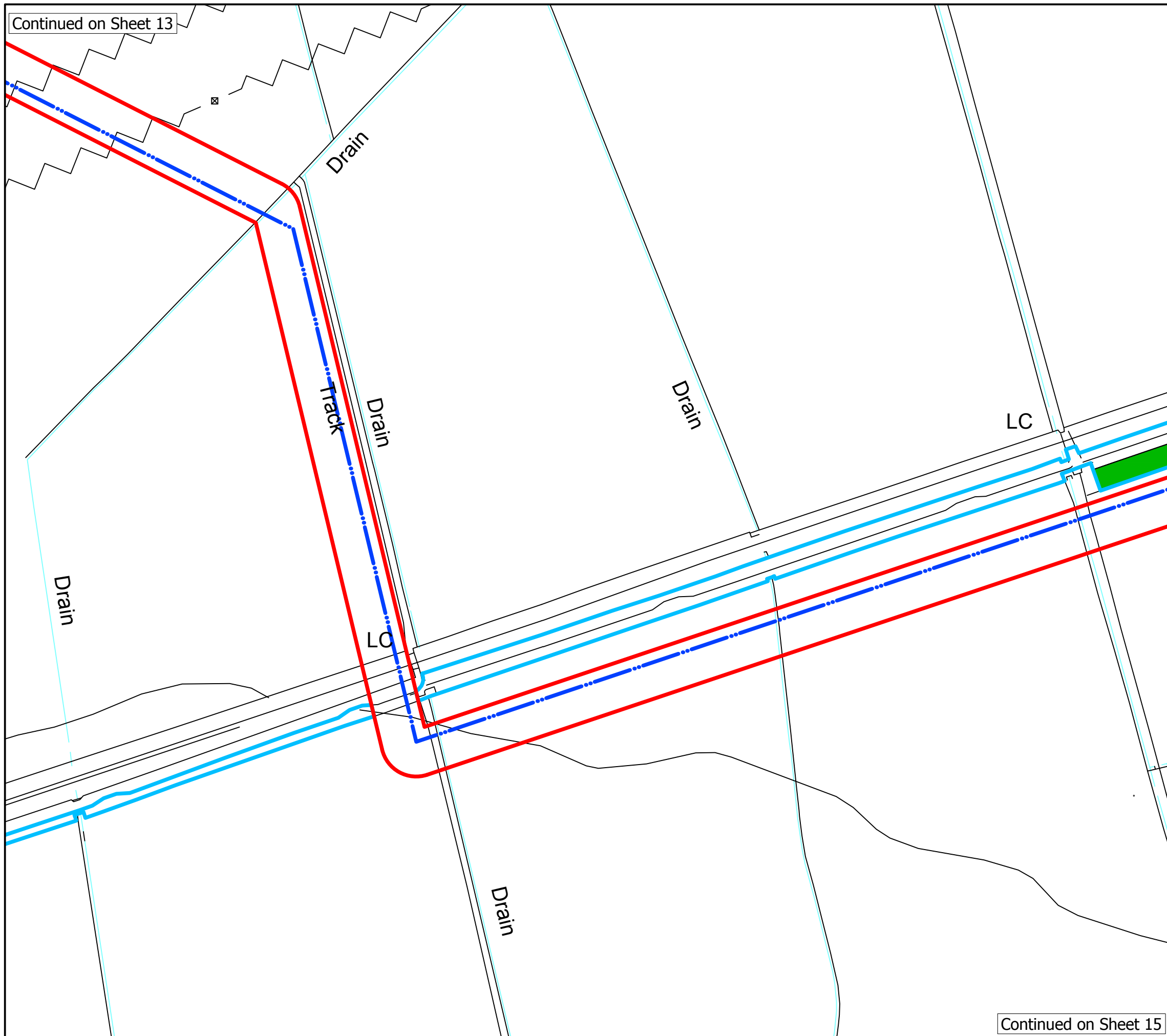
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



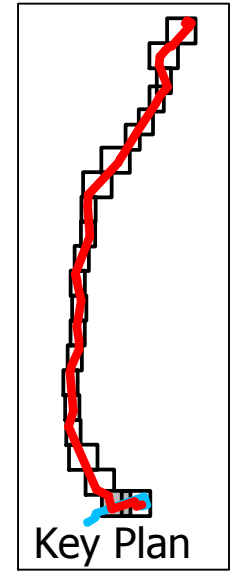
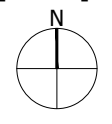
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Continued on Sheet 15

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 Revision \_\_\_\_\_ Date \_\_\_\_\_ Drn \_\_\_\_\_ Ckd \_\_\_\_\_

**LEGEND**

-  Application Site Boundary
-  Proposed Pipeline Route
-  Other Land in Clients Ownership

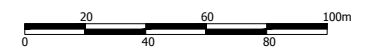


**Figure 4.20**

Project  
 Ebberston Moor 'A' Well Site to  
 Knapton Gas Pipeline

Drawing Title  
 Detailed Pipeline Route  
 Sheet 14 of 15

Date	Scale	Drawn by	Check by
06.08.2013	1:2,500 @A3	ML	PF
Project No	Drawing No	Revision	
19819	E114	-	

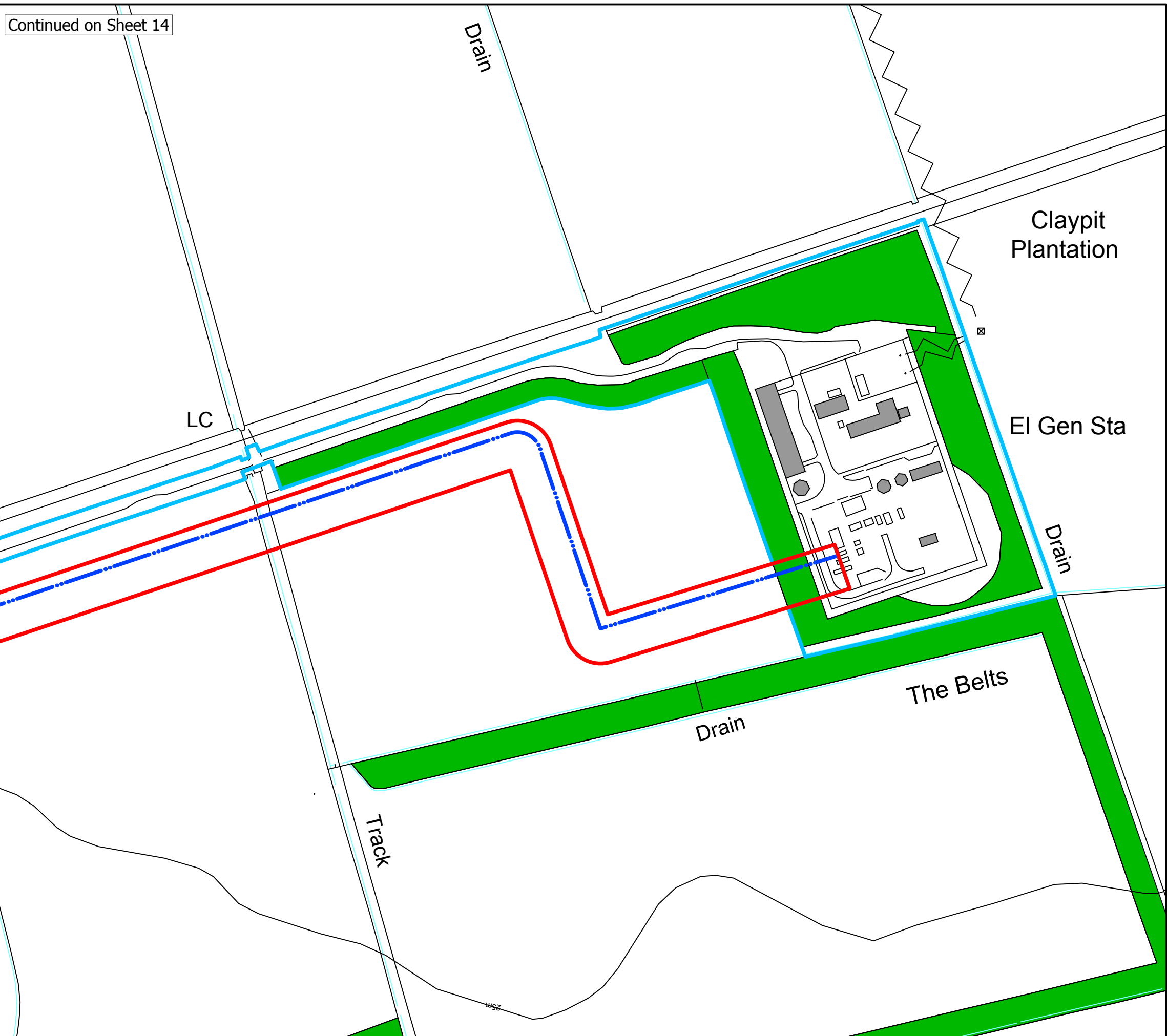


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



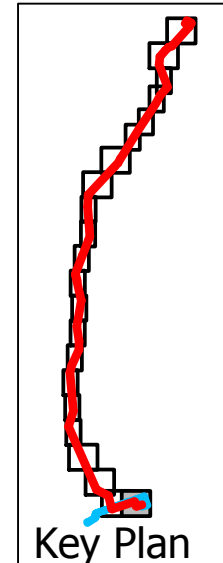
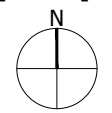
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Revision \_\_\_\_\_ Date \_\_\_\_\_ Drn \_\_\_\_\_ Ckd \_\_\_\_\_

### LEGEND

-  Application Site Boundary
-  Proposed Pipeline Route
-  Other Land in Clients Ownership

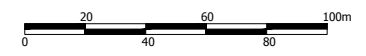


## Figure 4.2p

Project  
Ebberston Moor 'A' Well Site to  
Knapton Gas Pipeline

Drawing Title  
Detailed Pipeline Route  
Sheet 15 of 15

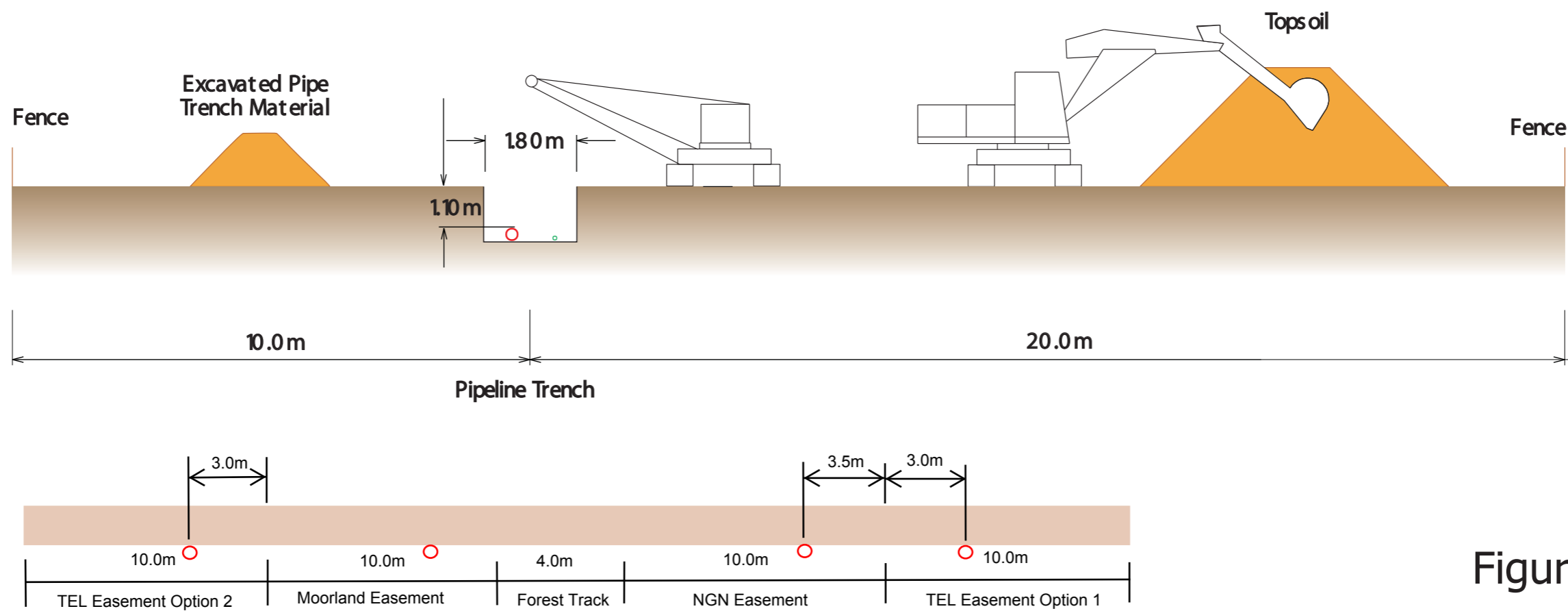
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Project No	Drawing No	Revision	
19819	E115	-	



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DALBY FOREST TRACK EASEMENT CONFIGURATION

Figure 4.3

Project  
KNAPTON EXTENSION

Drawing Title  
Indicative section

Date  
19.09.12  
Project No  
19819

Scale  
NTS  
Drawing No  
P25

Drawn by  
GS  
Revision  
A

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Landscape Architects Environmental Consultants  
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