

Warning: PDF designed for A4 colour print only with no page scaling



Dig Sites

Area:

Line:

- LP Mains
- MP Mains
- IP Mains
- LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko

Your Scheme/Reference:  
 22/01987/FM

View extent: 100m, 100m

**IMPORTANT NOTICES**

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**In case of emergency call - 0800 111 999**

Scale: 1:6150 (When plotted at A4)

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1

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 25m

Dig Sites      Area:       Line: 



 LP Mains  
 MP Mains  
 IP Mains  
 LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

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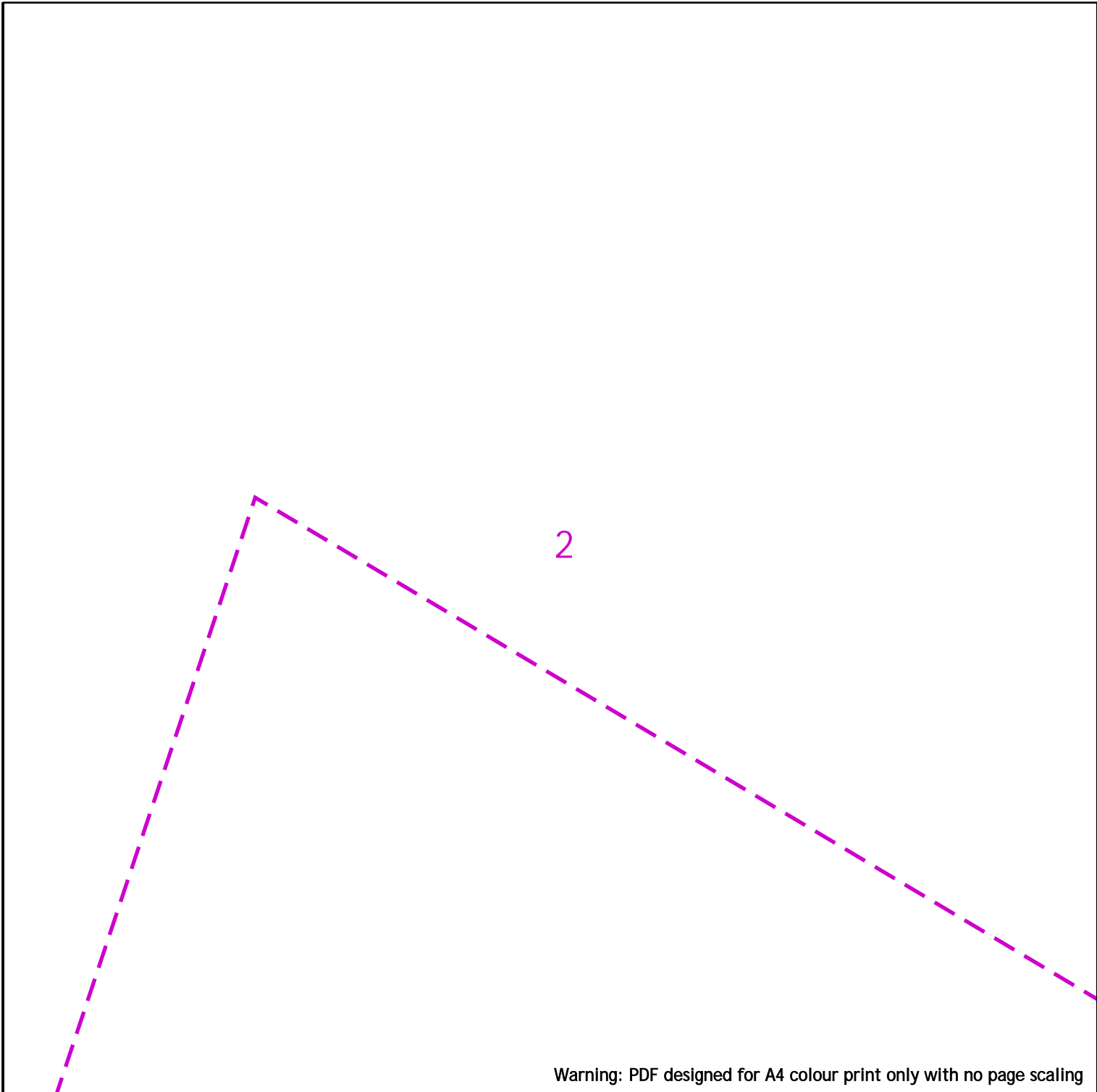
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25m

Dig Sites      Area:      Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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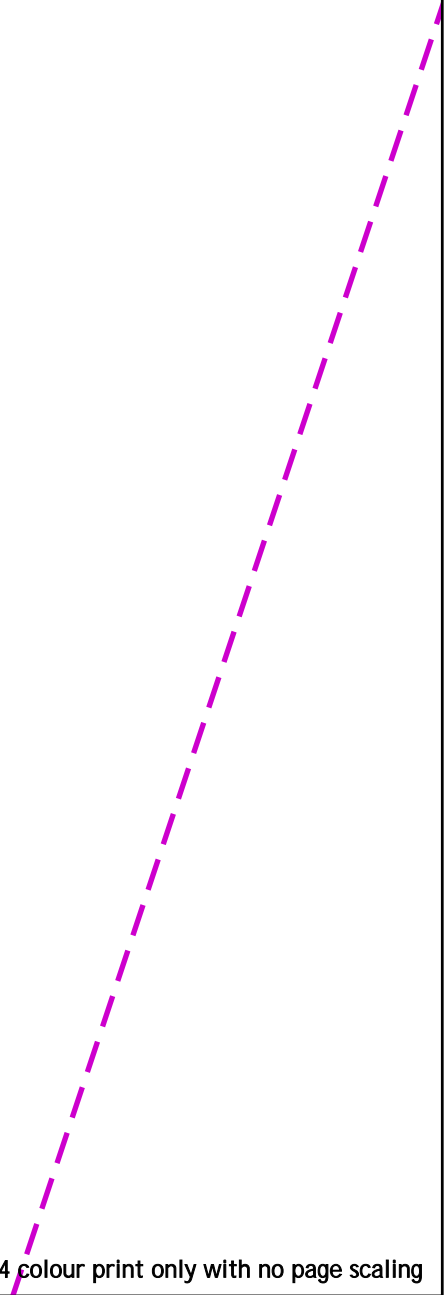
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4



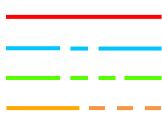
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Dig Sites

Area: 

Line: 



LP Mains  
MP Mains  
IP Mains  
LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

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 25m

Dig Sites      Area:       Line: 



	LP Mains
	MP Mains
	IP Mains
	LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

Date Requested: 09/11/2022  
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View extent: 100m, 100m

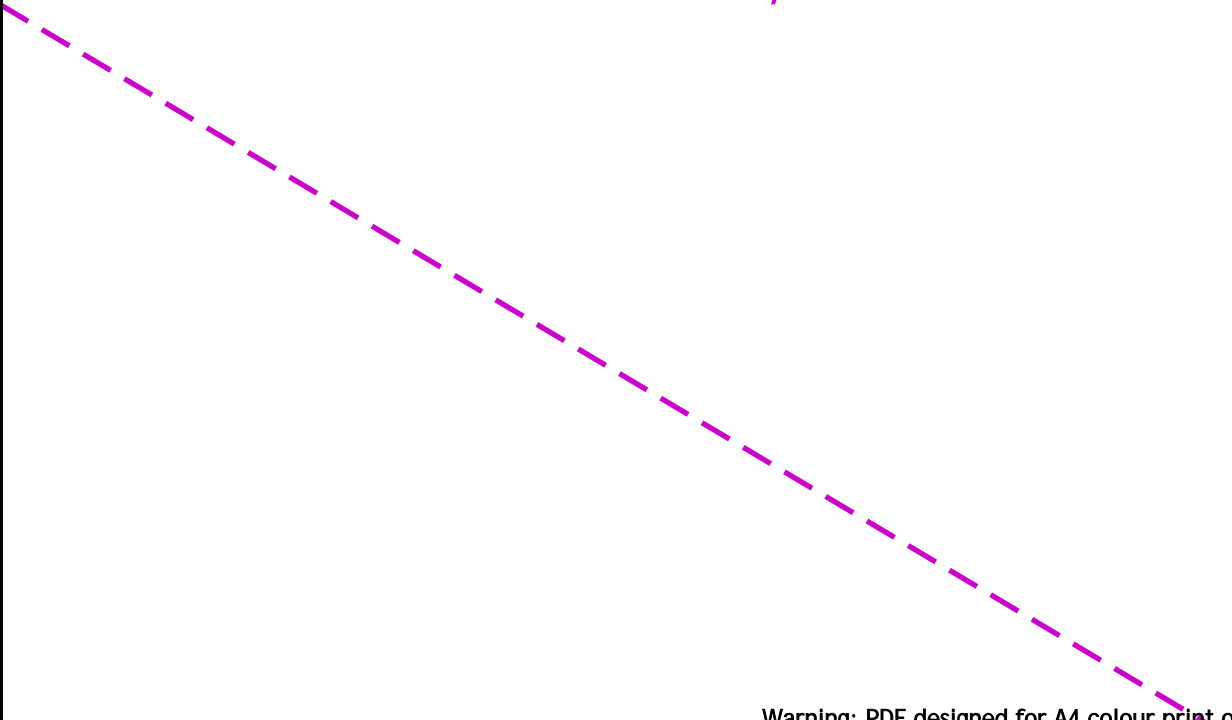
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7



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Dig Sites Area: Line:



- LP Mains
- MP Mains
- IP Mains
- LHP Mains
- Valve
- Depth of cover
- Syphon
- Diameter Change
- Material Change
- Out of Standard Service

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Dig Sites Area:  Line: 



	LP Mains		Valve		Diameter Change
	MP Mains		Depth of cover		Material Change
	IP Mains		Syphon		Out of Standard Service
	LHP Mains				

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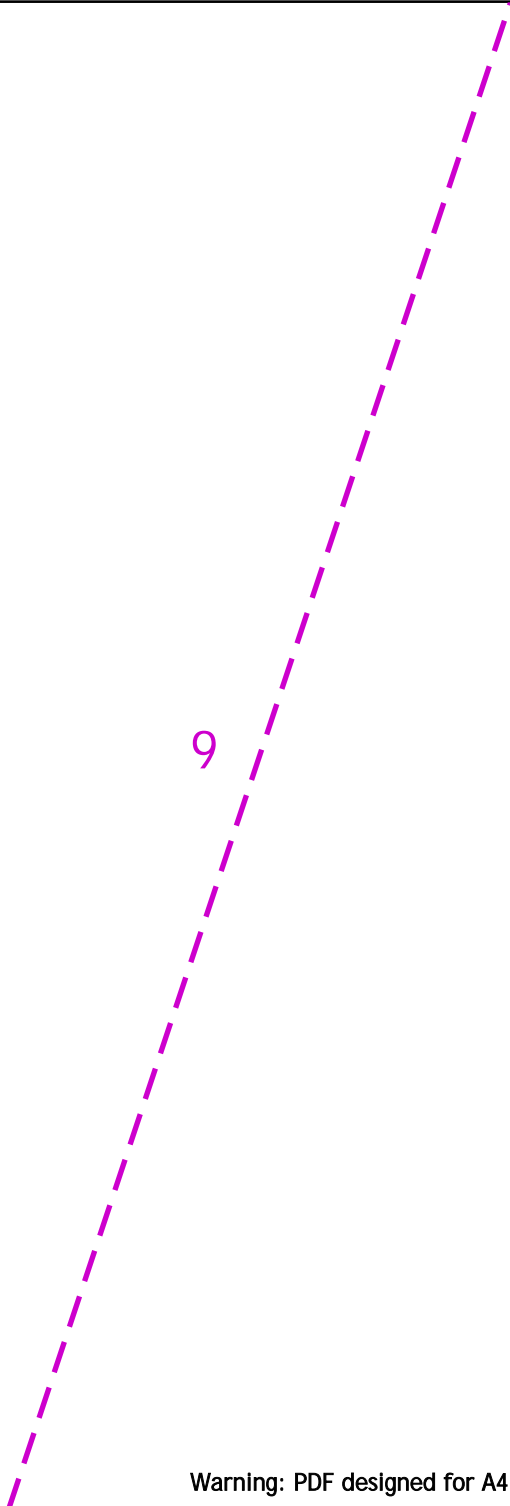
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Dig Sites      Area:      Line:

	LP Mains		Valve		Diameter Change
	MP Mains		Depth of cover		Material Change
	IP Mains		Syphon		Out of Standard Service
	LHP Mains				



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Dig Sites Area: Line:



- LP Mains
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|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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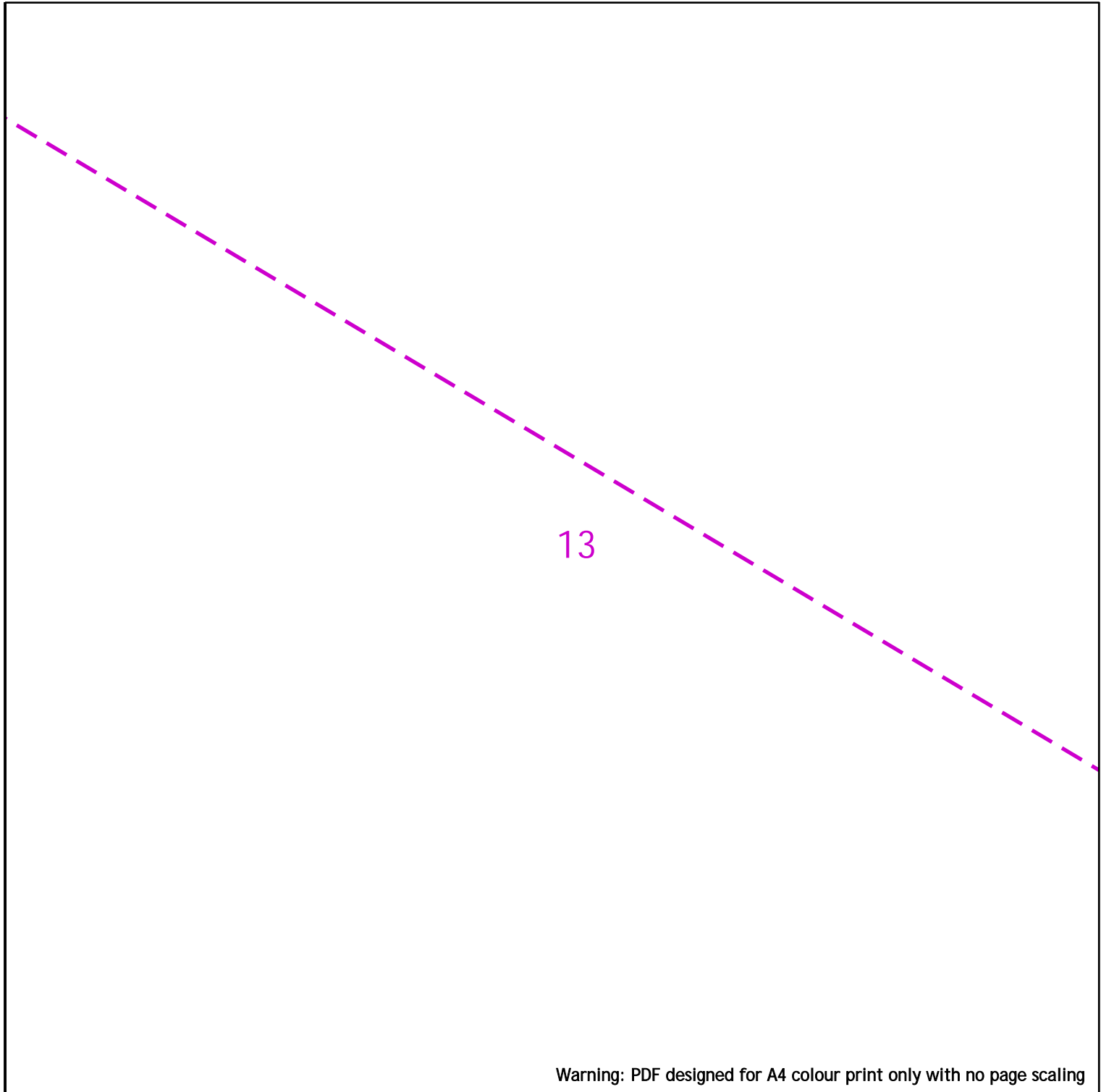
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25m

Dig Sites      Area:      Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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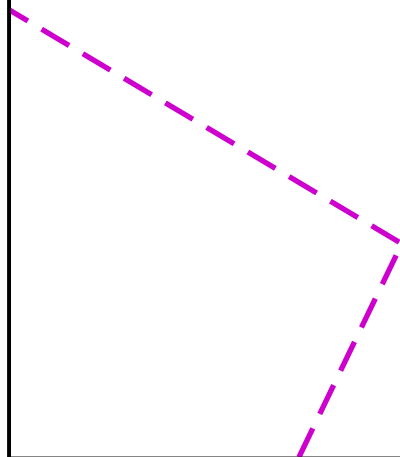
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|  | LP Mains  |  | Valve          |  | Diameter Change         |
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|  | LP Mains  |  | Valve          |  | Diameter Change         |
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Dig Sites Area: Line:



- LP Mains
- MP Mains
- IP Mains
- LHP Mains

- Valve
- Depth of cover
- Syphon

- Diameter Change
- Material Change
- Out of Standard Service

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Warning: PDF designed for A4 colour print only with no page scaling



Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko  
 Your Scheme/Reference:  
 22/01987/FM

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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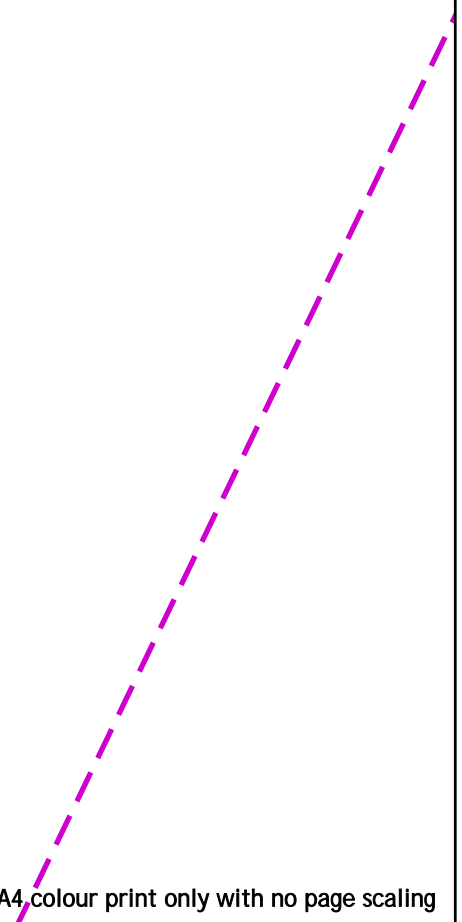
Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko  
 Your Scheme/Reference:  
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 View extent: 100m, 100m

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20













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Dig Sites Area:  Line: 



-  LP Mains
-  MP Mains
-  IP Mains
-  LHP Mains
-  Valve
-  Depth of cover
-  Syphon
-  Diameter Change
-  Material Change
-  Out of Standard Service

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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22

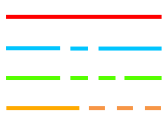
Warning: PDF designed for A4 colour print only with no page scaling



Dig Sites

Area: 

Line: 



LP Mains  
MP Mains  
IP Mains  
LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

Date Requested: 09/11/2022  
Job Reference: 27544162  
Site Location: 549782 310765  
Requested by: Miss Sandra Homcenko  
Your Scheme/Reference:  
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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

Date Requested: 09/11/2022  
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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
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|  | LP Mains  |  | Valve          |  | Diameter Change         |
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- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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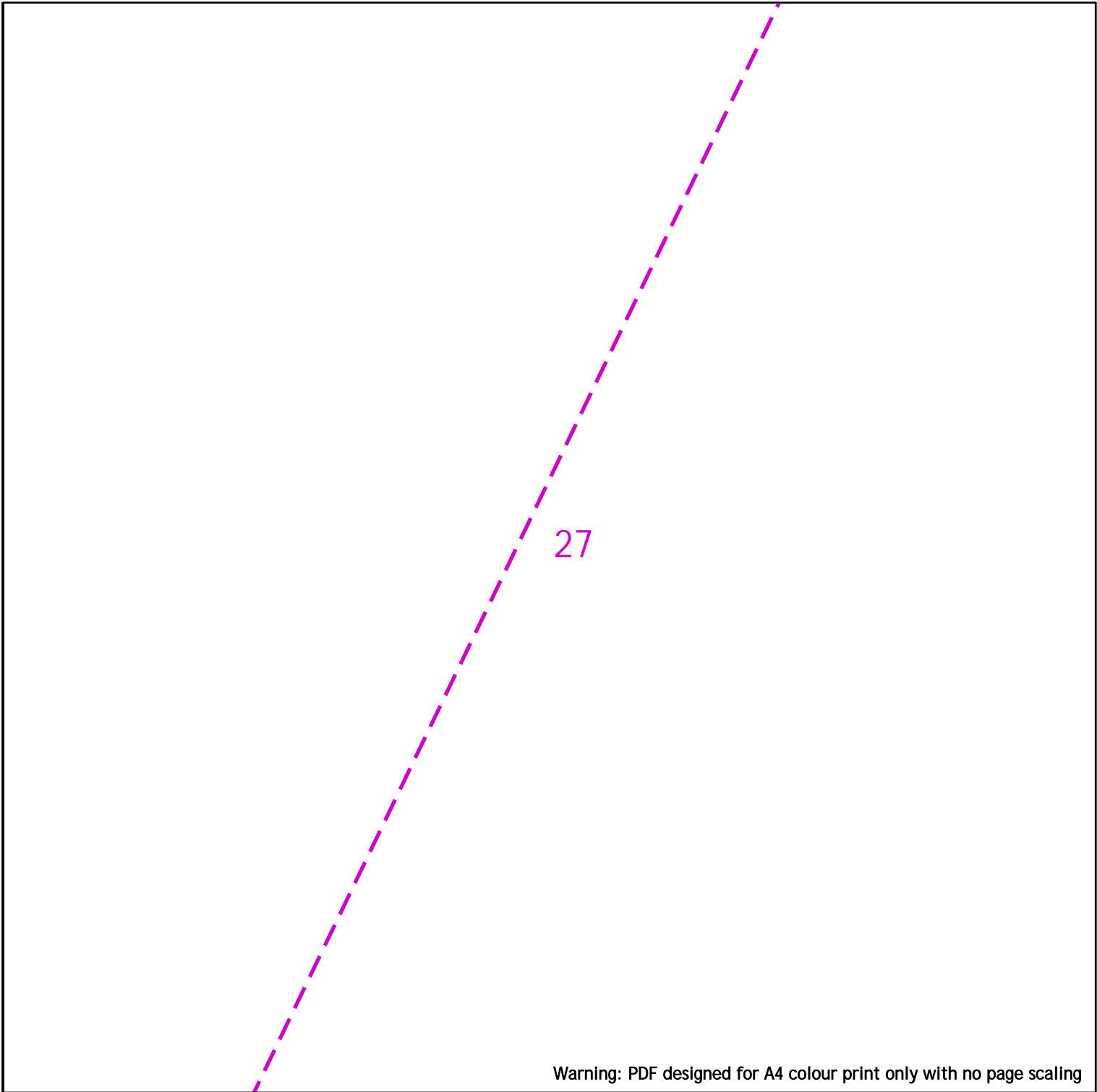
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|  | LP Mains  |  | Valve          |  | Diameter Change         |
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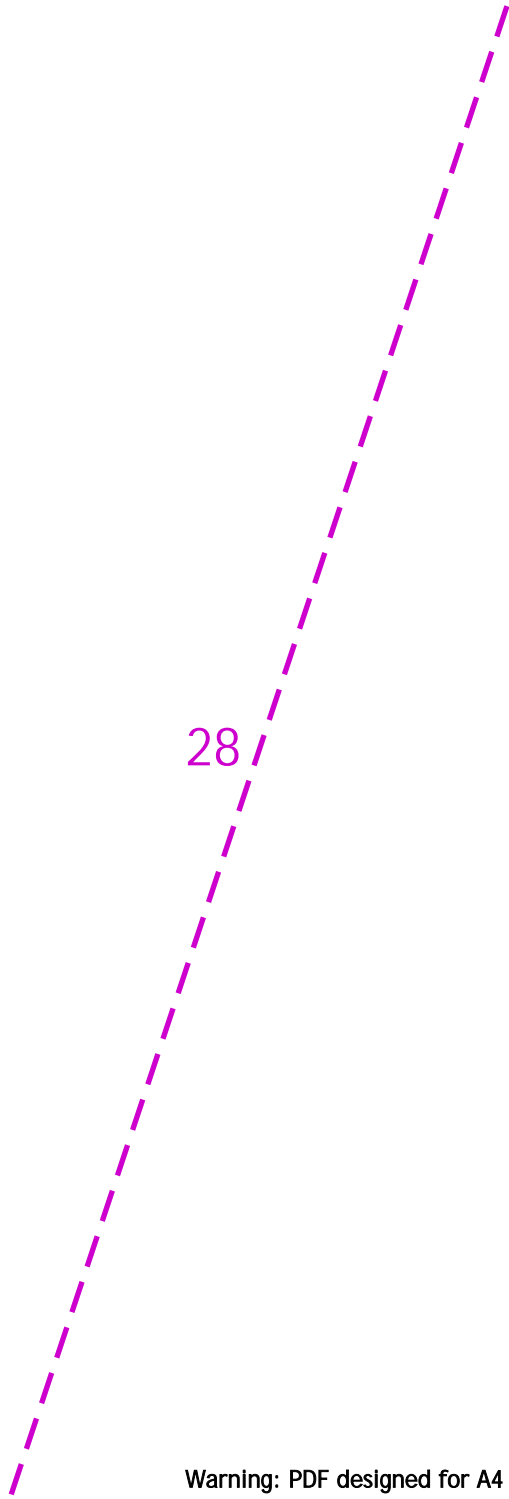
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- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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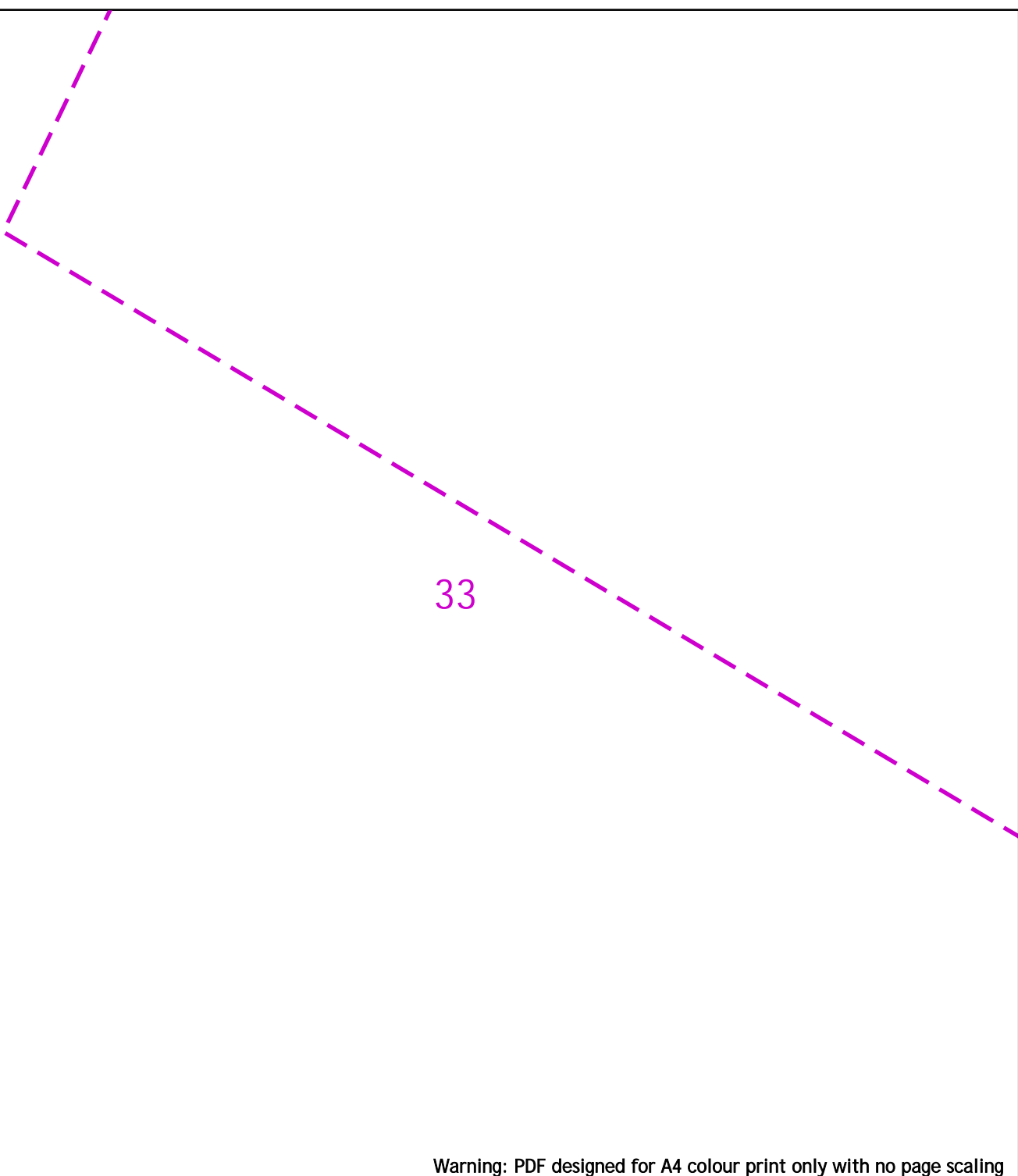
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Dig Sites      Area:      Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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Dig Sites      Area:       Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko  
 Your Scheme/Reference:  
 22/01987/FM

**IMPORTANT NOTICES**

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35

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 25m

Dig Sites      Area:       Line: 



 LP Mains  
 MP Mains  
 IP Mains  
 LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

Date Requested: 09/11/2022  
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View extent: 100m, 100m

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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|  | LHP Mains |  |                |  |                         |

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Scale: 1:500 (When plotted at A4)





41

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 25m


Dig Sites Area:  Line: 





	LP Mains
	MP Mains
	IP Mains
	LHP Mains

 Valve

 Depth of cover

 Syphon

 Diameter Change

 Material Change

 Out of Standard Service

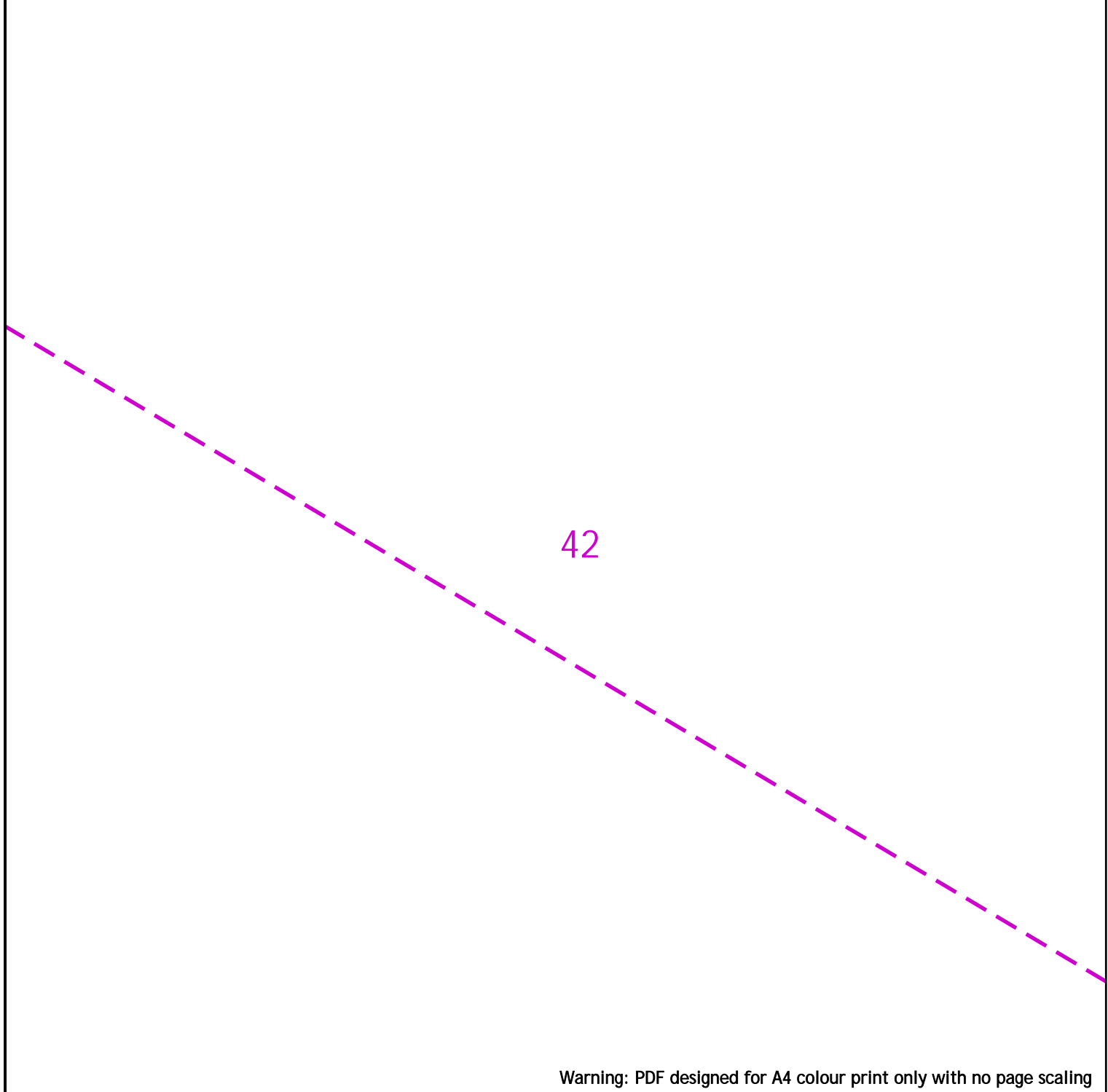
Date Requested: 09/11/2022  
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Site Location: 549782 310765  
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25m

Dig Sites

Area:

Line:

**Cadent**  
Your Gas Network

LP Mains  
 MP Mains  
 IP Mains  
 LHP Mains

Valve  
 Depth of cover  
 Syphon

Diameter Change  
 Material Change  
 Out of Standard Service

Date Requested: 09/11/2022  
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View extent: 100m, 100m

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

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Dig Sites Area: Line:



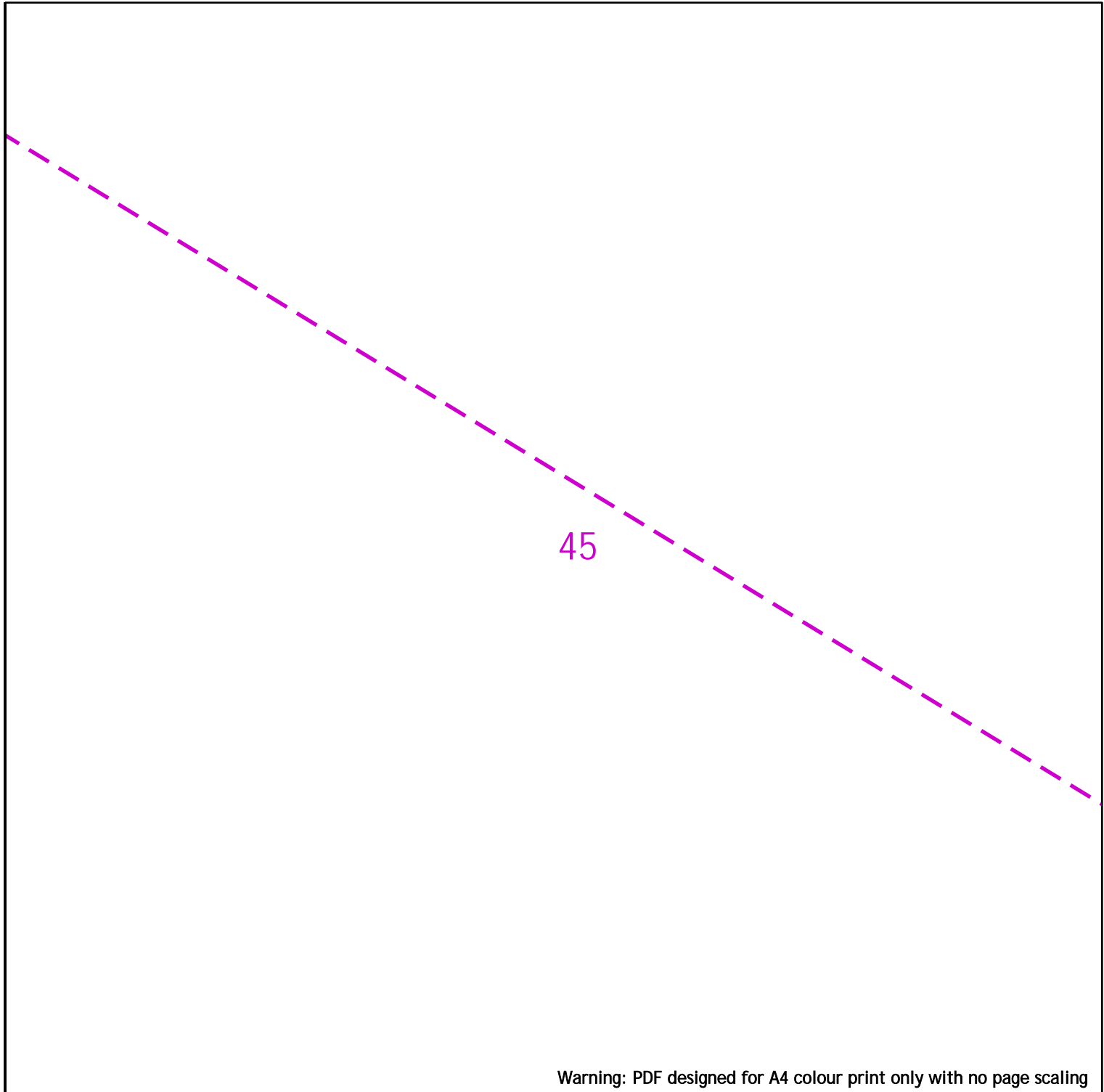
- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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Dig Sites Area:  Line: 



	LP Mains		Valve		Diameter Change
	MP Mains		Depth of cover		Material Change
	IP Mains		Syphon		Out of Standard Service
	LHP Mains				

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko  
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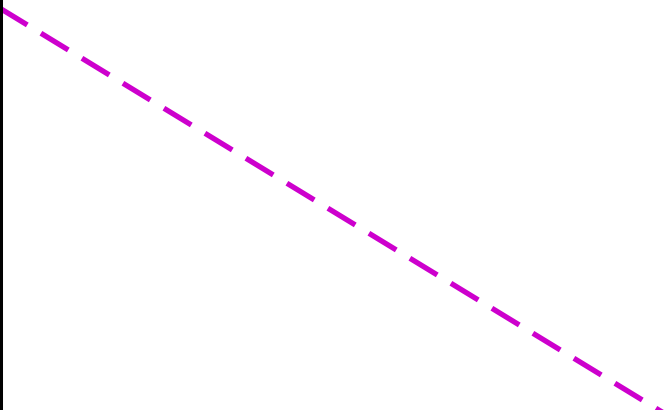
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View extent: 100m, 100m

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Scale: 1:500 (When plotted at A4)







46



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- Dig Sites      Area:       Line: 
-  LP Mains
  -  MP Mains
  -  IP Mains
  -  LHP Mains

-  Valve
-  Depth of cover
-  Syphon
-  Diameter Change
-  Material Change
-  Out of Standard Service

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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50

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 25m

Dig Sites

Area: 


Line: 


**Cadent**  
Your Gas Network

 LP Mains  
 MP Mains  
 IP Mains  
 LHP Mains

 Valve

 Depth of cover

 Syphon

 Diameter Change

 Material Change

 Out of Standard Service

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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**In case of emergency call - 0800 111 999**

Scale: 1:500 (When plotted at A4)





52

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 25m


Dig Sites Area:  Line: 





 LP Mains  
 MP Mains  
 IP Mains  
 LHP Mains

 Valve

 Depth of cover

 Syphon

 Diameter Change

 Material Change

 Out of Standard Service

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko  
 Your Scheme/Reference:  
 22/01987/FM

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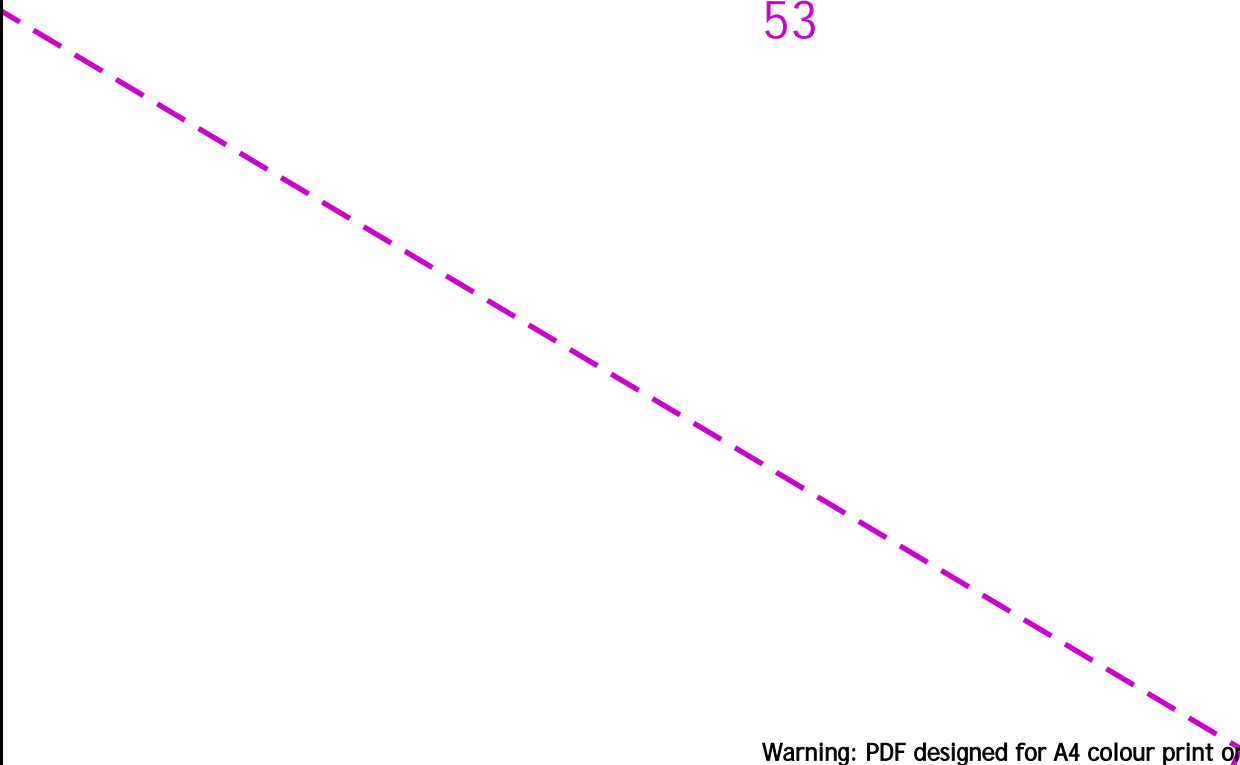
View extent: 100m, 100m

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Scale: 1:500 (When plotted at A4)

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Dig Sites Area: Line:



- LP Mains
- MP Mains
- IP Mains
- LHP Mains
- Valve
- Depth of cover
- Syphon
- Diameter Change
- Material Change
- Out of Standard Service

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
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View extent: 100m, 100m

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Scale: 1:500 (When plotted at A4)

54

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

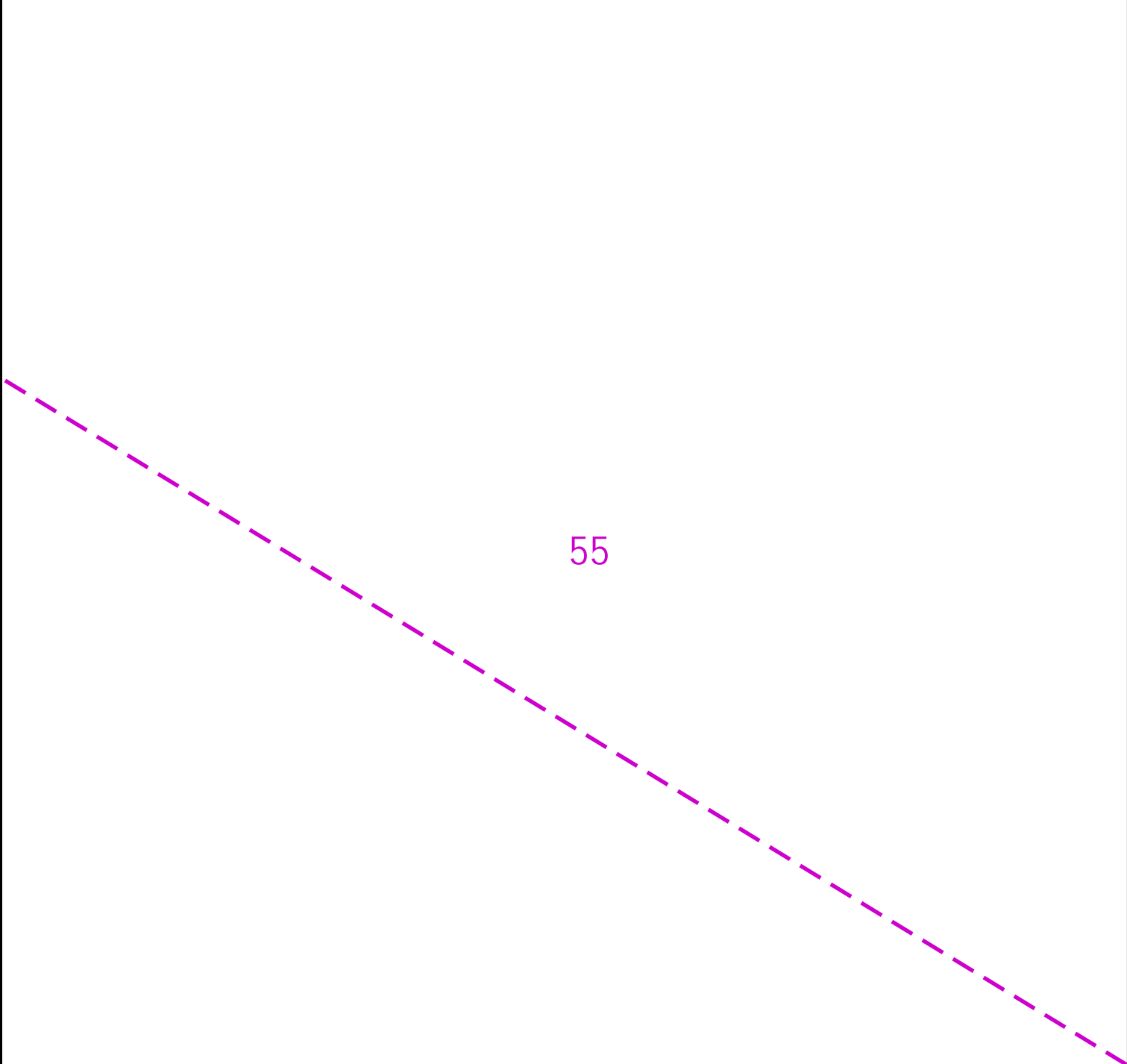
Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko  
 Your Scheme/Reference:  
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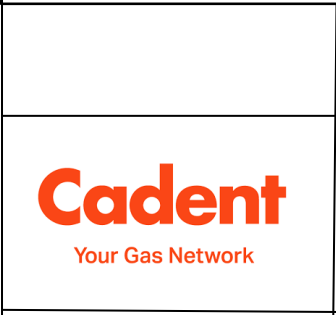
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Dig Sites	Area:	Line:		
	LP Mains			Valve
	MP Mains			Depth of cover
	IP Mains			Syphon
	LHP Mains			Diameter Change
				Material Change
				Out of Standard Service

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko  
 Your Scheme/Reference:  
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 View extent: 100m, 100m

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

Date Requested: 09/11/2022  
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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko  
 Your Scheme/Reference:  
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 View extent: 100m, 100m

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

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61

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 25m

Dig Sites      Area:       Line: 



	LP Mains
	MP Mains
	IP Mains
	LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko  
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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

Date Requested: 09/11/2022  
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63

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 25m

Dig Sites Area:  Line: 



 LP Mains  
 MP Mains  
 IP Mains  
 LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

Date Requested: 09/11/2022  
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View extent: 100m, 100m







64

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 25m

Dig Sites      Area:       Line: 



	LP Mains
	MP Mains
	IP Mains
	LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

Date Requested: 09/11/2022  
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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

Date Requested: 09/11/2022  
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Site Location: 549782 310765  
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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

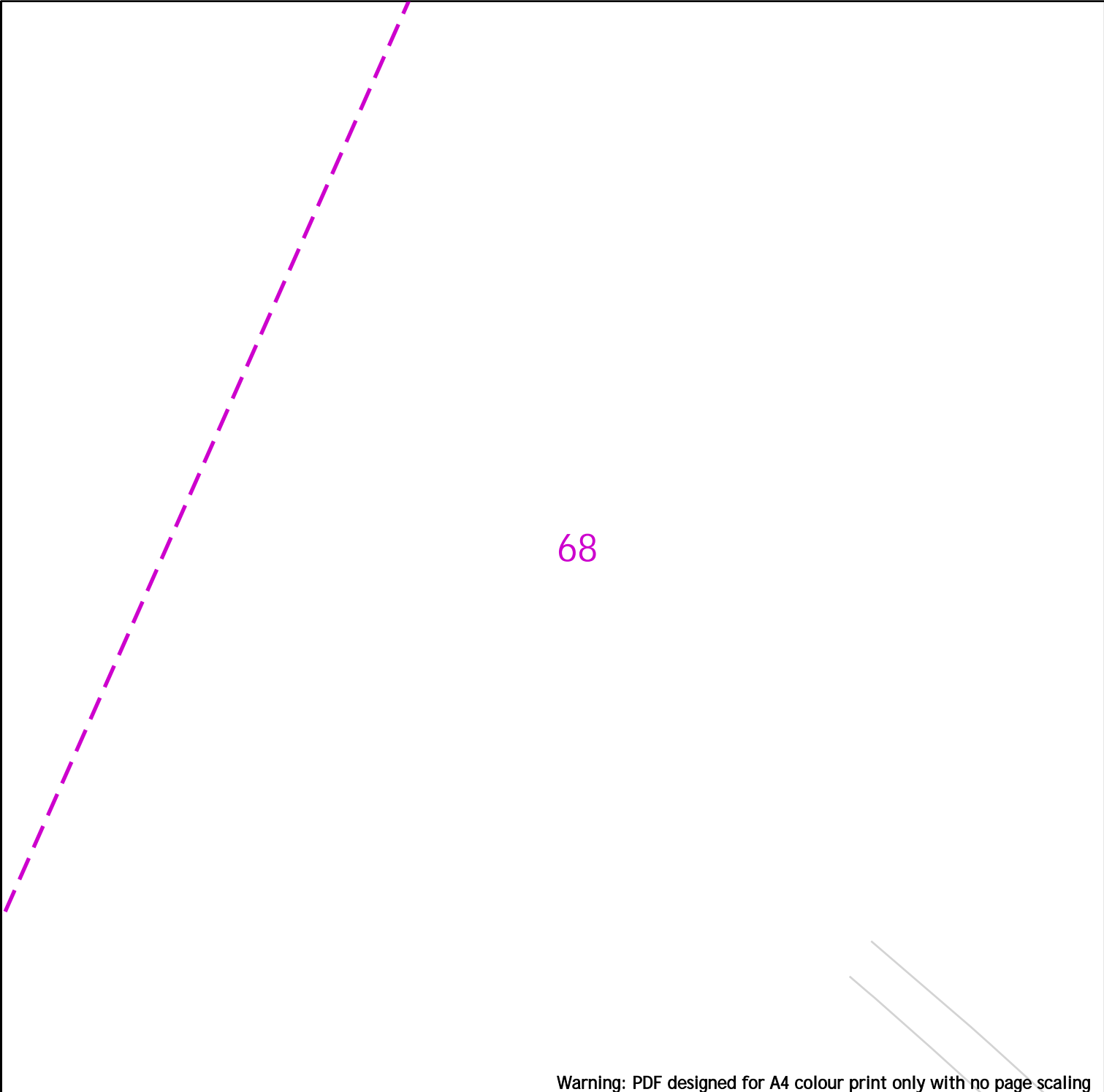
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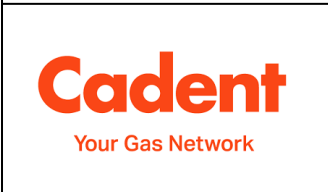
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<p><b>Dig Sites</b></p> <p>Area:  Line: </p>	<p>  LP Mains   MP Mains   IP Mains   LHP Mains         </p>	<p>  Valve   Depth of cover   Syphon         </p>	<p>  Diameter Change   Material Change   Out of Standard Service         </p>
--	--	---	---

Date Requested: 09/11/2022  
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Your Scheme/Reference:  
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View extent: 100m, 100m

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

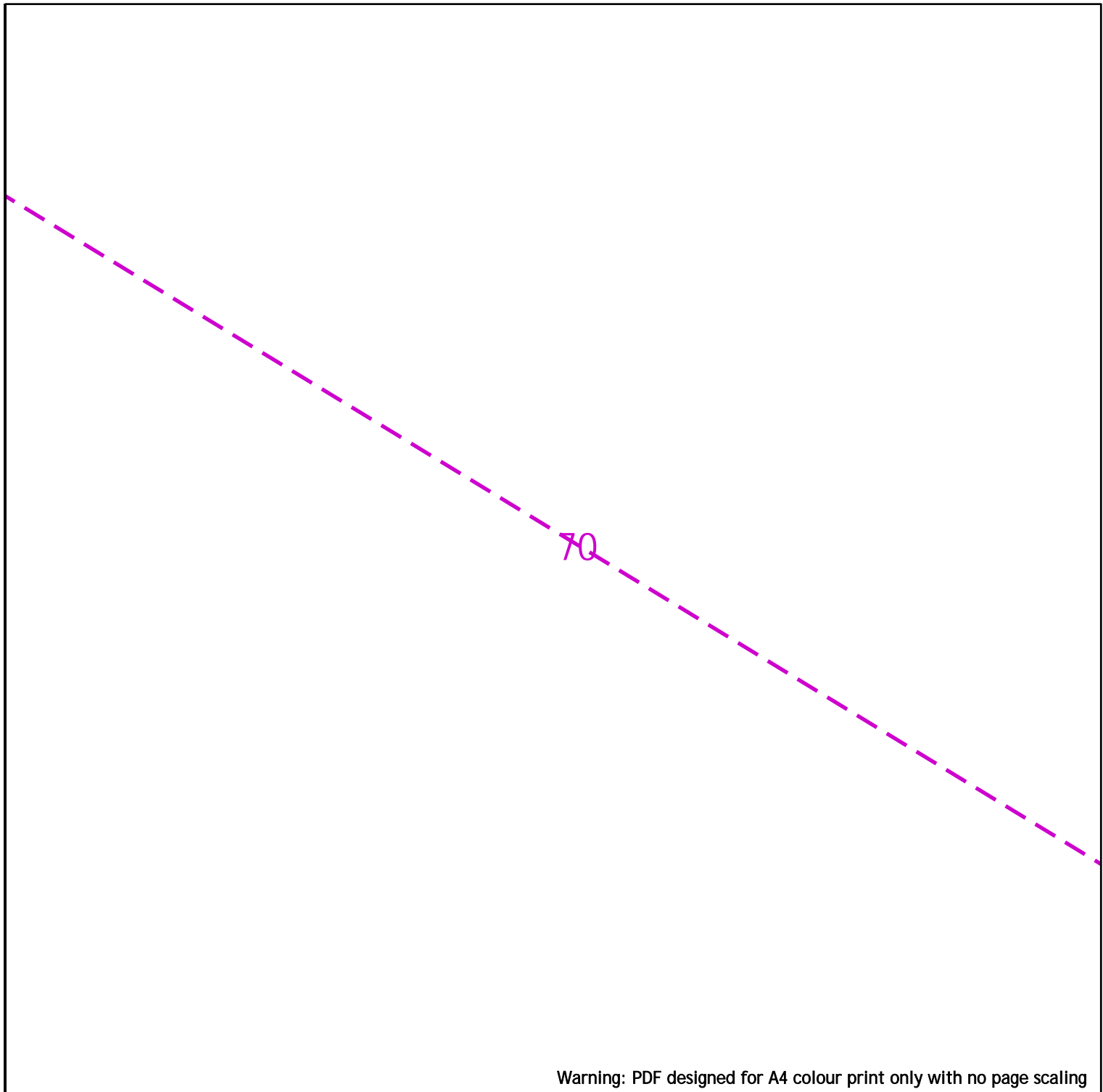
Date Requested: 09/11/2022  
 Job Reference: 27544162  
 Site Location: 549782 310765  
 Requested by: Miss Sandra Homcenko  
 Your Scheme/Reference:  
 22/01987/FM

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 25m

Dig Sites      Area:       Line: 



	LP Mains		Valve		Diameter Change
	MP Mains		Depth of cover		Material Change
	IP Mains		Syphon		Out of Standard Service
	LHP Mains				

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 25m

Dig Sites      Area:       Line: 



 LP Mains  
 MP Mains  
 IP Mains  
 LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

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 25m

Dig Sites      Area:       Line: 



	LP Mains
	MP Mains
	IP Mains
	LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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Dig Sites      Area:       Line: 



	LP Mains
	MP Mains
	IP Mains
	LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

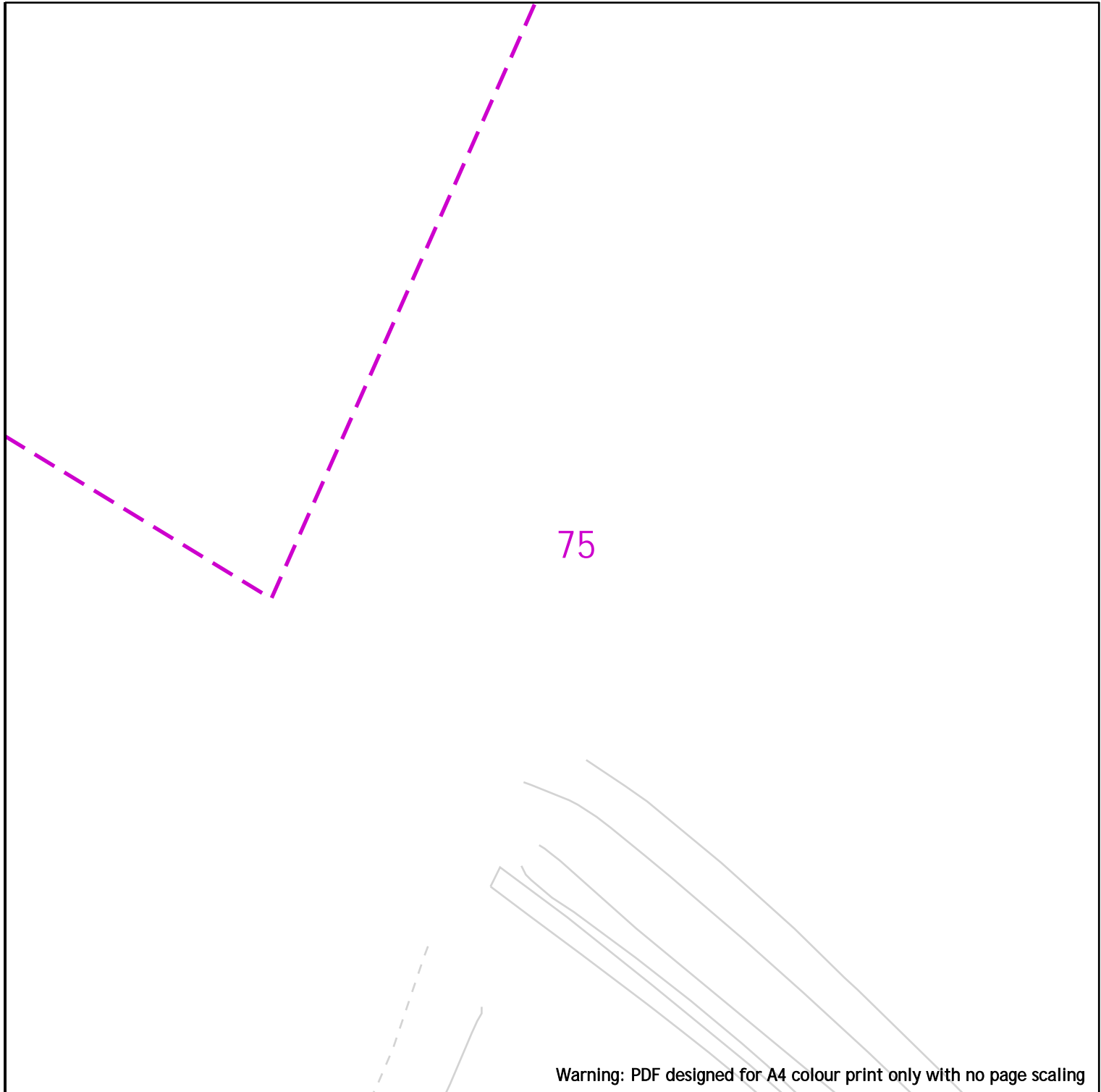
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25m

- |                  |              |              |
|------------------|--------------|--------------|
| <b>Dig Sites</b> | <b>Area:</b> | <b>Line:</b> |
|                  | LP Mains     |              |
|                  | MP Mains     |              |
|                  | IP Mains     |              |
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## **UKOPA Good Practice Guide**

Requirements for the Siting and Installation of Solar  
Photovoltaic (PV) Installations in the Vicinity of Buried  
Pipelines

UKOPA/GP/014 Edition 1

June 2017

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## **GUIDANCE ISSUED BY UKOPA:**

The guidance in this document represents what is considered by UKOPA to represent current UK pipeline industry good practice within the defined scope of the document. All requirements should be considered guidance and should not be considered obligatory against the judgement of the Pipeline Owner/Operator. Where new and better techniques are developed and proved, they should be adopted without waiting for modifications to the guidance in this document.

Comments, questions and enquiries about this publication should be directed to:

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Ambergate  
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DE56 2FZ

E-mail: [enquiries@ukopa.co.uk](mailto:enquiries@ukopa.co.uk)

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### **Revision and change control history**

**Planned revision: January 2022**

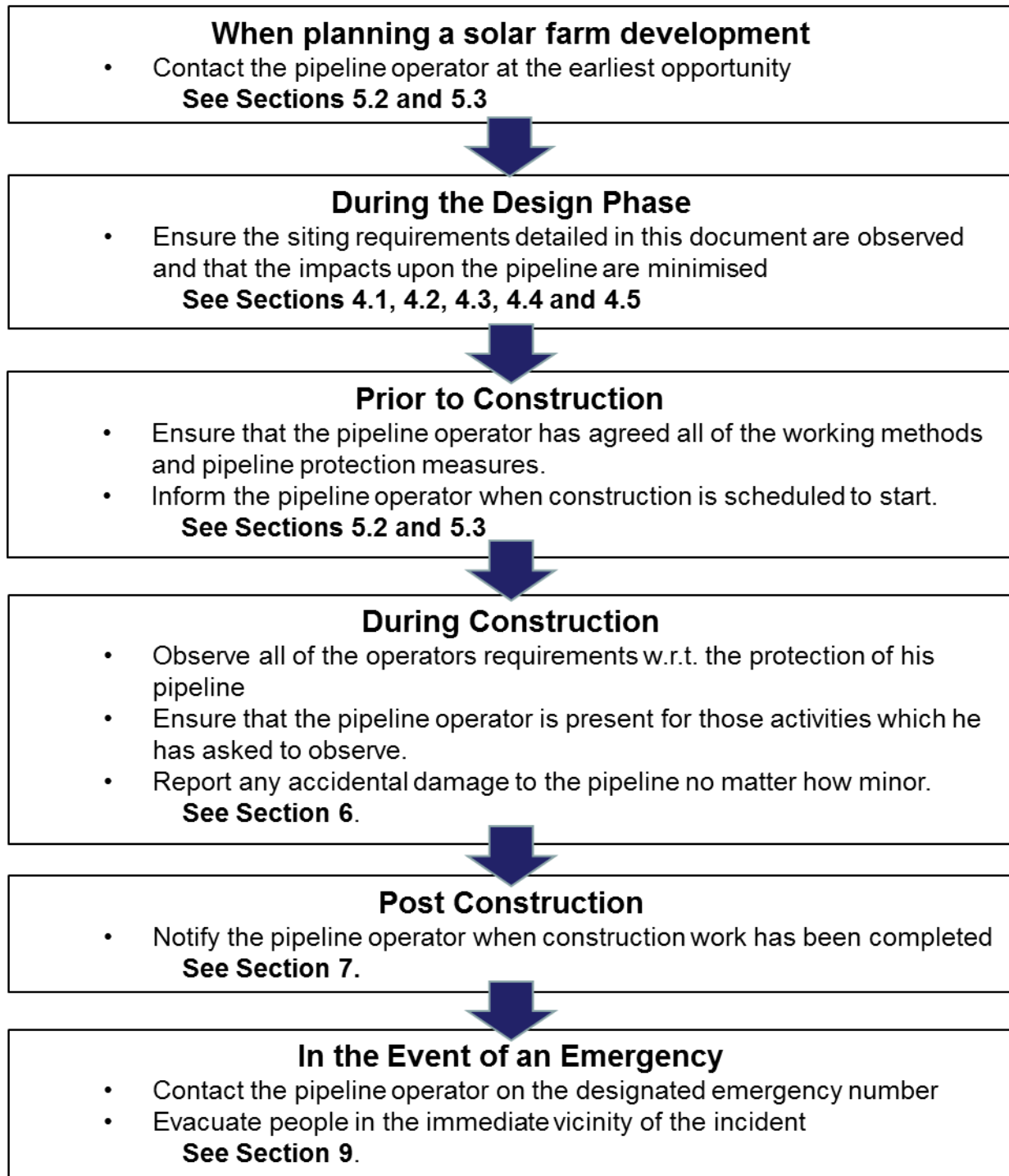
<b>Edition</b>	<b>Date</b>	<b>No. of pages</b>	<b>Summary of changes</b>
<b>A</b>	June 2017	14	New document created
<b>B</b>			
<b>C</b>			
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## 1. EXECUTIVE SUMMARY

An overview of the overall process described within this document is provided in the diagram below, however the individual sections of this document should be consulted for the detailed requirements at each stage of the planning, design, construction and operation of a Solar PV Installation:





## Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

---

### 2. INTRODUCTION

This document has been produced by the pipeline operating companies that are members of UKOPA in consultation with the Health and Safety Executive. Its purpose is to ensure Solar Photovoltaic (PV) Installations are designed, sited, commissioned, operated, decommissioned and demolished in the safest possible way. The intention of the document is to ensure that the most appropriate decisions are made throughout every stage of life cycle of the Solar PV Installation project.

Appropriate communication between the Solar PV Installation developer and designer is critical throughout the project in order to ensure that the safety impacts on the pipeline are minimised. The document has been produced to support both the Solar PV Installation developer and the pipeline operator in this communication process throughout the pipeline lifecycle. In order to ensure that the requirements of the document are appropriately applied, it is important that the pipeline operator is contacted by the Solar PV Installation developer at the earliest possible stage in the project.

In Great Britain, the control of risks arising from third party damage to pipelines is addressed by Regulations 15 and 16 of the Pipelines Safety Regulations 1996 (PSR). PSR Regulation 15 states: 'No person shall cause such damage to a pipeline as may give rise to a danger to persons'.

Actions that may be necessary to comply with PSR Regulation 15 include:

- checks done during the planning of a job to establish whether any pipelines are located in the vicinity;
- if a pipeline is present, making contact with the pipeline operator and obtaining plans;
- carrying out site surveys;
- utilising appropriate safe digging techniques;
- reassessing the risks if the scope of the work changes;
- stopping work if there are any unexpected findings on site.

PSR Regulation 16 places complementary duties on pipeline operators and states the following: 'For the purpose of ensuring that no damage is caused to a pipeline, the operator shall take such steps to inform persons of its existence and whereabouts as are reasonable'.

A range of measures can be utilised to secure compliance with PSR Regulation 16.

This Good Practice Document sets out to help Solar PV Installation developers by describing the practical steps that they need to take in order to both meet their legal duties and effectively minimise the risks to buried pipelines.

#### 2.1 Background

The pipeline network operated by UKOPA members is buried typically at depths of 1m (however this depth may vary and contact with the pipeline operator shall be made to confirm the actual depth) and the majority of this Network is located in rural areas away from centres of population. This document provides guidance to ensure that the safety impacts of Solar PV Installations on buried pipelines are minimised throughout their lifecycle by ensuring that they are suitably designed, sited, constructed, commissioned, operated and decommissioned.

The intention of the document is not to restrict Solar PV Installation development but to make Solar PV Installation designers and developers aware of the pipeline operator's requirements. This should minimise any potential project delays by ensuring that all of the pipeline operator's requirements are known and understood by the Solar PV Installation developers and operators at the earliest possible stage in the project.

## Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

---

### 2.2 Scope

The guidance in this document is applicable to siting and installation of Solar PV Installations in the vicinity of buried pipelines operated by the UKOPA member companies. These pipelines can be categorised as:

- Natural gas high pressure (HP) pipelines
- Petrochemical liquids and gas pipelines
- Oil and refined liquid pipelines

For natural gas pipelines, the guidance is generally applicable to pipelines with maximum operating pressures above 7 bar, however the principles of the document can be equally applied to natural gas pipelines operating at lower pressures.

### 2.3 Application

This guidance has been developed for the developers and operators of Solar PV Installations. The guidance has been developed in order to minimise the impact of the construction and operation of Solar PV Installations on buried pipelines transporting hazardous materials as defined in Section 3. The requirements within the document cover the siting, design, construction, operation, subsequent decommissioning and demolition of Solar PV Installations.

The guidance is considered to represent industry good practice. It is based on technical work sponsored by UKOPA and is in line with regulatory requirements and pipeline industry standards (References 1, 2 and 3). The document has been produced in order to ensure consistency across the pipeline industry for the mutual benefit of all parties.

Within this document:

**Shall:** indicates a mandatory requirement.

**Should:** indicates good practice and is the preferred option.

## Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

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### 3. OVERVIEW OF UK PIPELINES

The network of pipelines operated by the UKOPA member companies is over 27,000 km in length. The safety record for these pipelines in the UK is extremely good. This is as a result of them being designed and operated to well-developed industry standards and the application of a robust legal framework.

The continued safe operation of this pipeline network could be adversely impacted by Solar PV Installations unless sufficient safeguards are taken during their siting, construction and operation. A pipeline failure could result in a loss of containment of the hazardous fluid being transported by the pipeline, resulting in a thermal or environmental hazard.

A Solar PV Installation could affect a buried pipeline operated by a UKOPA member company in the following ways:

- Damage to the pipeline caused during the construction of the Solar PV Installation during site preparation work including the excavation of soils associated with site levelling, the building of construction compounds, the construction of access roads, cable trenching, fencing etc.
- Damage caused by drainage of the site including the excavation of drainage ditches.
- Damage as a result of piling or the construction of foundations for the solar panels or security fencing.
- Damage caused by heavy construction traffic crossing over or close to the pipeline.
- Damage to the pipeline caused during the repair or maintenance of the Solar PV Installation.
- Electrical interference with the pipeline's cathodic protection (CP) system, see Section 4.2.
- Restricting access to the pipeline both during normal operation of the pipeline or in the event of a pipeline emergency.

Communication between the pipeline operator and the Solar PV Installation developer, and taking suitable precautions as outlined in this document, can ensure the above issues are avoided.

Damage to a buried pipeline containing hazardous material is a safety and environmental concern: a major economic impact could also result due to loss of gas supplies to homes and industry or disruption of critical fuel supplies.

Minor damage to a pipeline results in a requirement for the operating pressure to be reduced causing supply constraints.

## Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

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### 4. DESIGN CONSIDERATIONS

#### 4.1 Siting of Solar PV Installations

At the earliest possible stage, preferably prior to applying for planning permission (see Section 5.2 for more detail), if there is believed to be a buried pipeline in the vicinity of the proposed Solar PV Installation development area (i.e. within 0.5 km), the pipeline operator should be contacted to confirm the exact location of the pipeline route. It is important that the pipeline operator is contacted by the Solar PV Installation developer at the earliest possible stage in the project in order to ensure that all of the requirements of this document are fully understood.

The majority of buried pipelines have legal negotiated rights of access to a strip of land typically between 6 m to 25 m wide centred on the pipeline. This access strip is known as an easement or wayleave (See Section 4.4). The proposed Solar PV Installation must be sited such that this access strip is preserved at all times to ensure the pipeline operator has access for maintenance or as a result of a pipeline emergency. If security fencing is going to be installed which might affect access to the buried pipeline, then the pipeline operator should be contacted to ensure that appropriate arrangements can be put in place to enable the operator to access the pipeline for maintenance or in the event of an emergency.

The Solar PV Installation should also be sited such that there is no electrical interference with the pipeline's cathodic protection system. Section 4.2 provides further guidance on siting requirements to avoid electrical interference.

The siting of the Solar PV Installation should also take account of hazards to the pipeline that might occur during the construction of the Solar PV Installation including: access for construction vehicles; lifting operations and the construction of the foundations for the solar panels. Further details regarding the precautions that should be taken during the construction activities are detailed in Sections 5.3 and Section 6.

Note that formal planning permission from the Local Authority does not take account of the hazards that the Solar PV Installation might pose for the buried pipeline. Obtaining planning permission should not therefore be seen as confirmation that legal duties under the Pipelines Safety Regulations and Construction Design Management Regulations (CDM) (see Section 5.1) have been met.

#### 4.2 Siting/Routing of Associated Electrical Infrastructure

##### 4.2.1 [Electrical design and risk assessment](#)

A risk assessment showing the impacts of the effects of a rise of earth potential (touch and step potentials and possibility of voltage exceeding the dielectric strength of pipeline coatings, hence consequential damage to coatings and pipelines), under fault conditions, should be submitted to the pipeline operator for consideration at the completion of the design phase and prior to the commencement of any construction works.

Cable diagrams should be provided to the pipeline operator for consideration at the completion of the design phase and prior to the commencement of any construction works. These should show the proposed location of all electrical cables both buried and above ground in the vicinity of the pipeline. All electrical cables should be kept out of the pipeline easement (apart from pre-agreed pipeline crossing points). Both buried and above ground alternating current (AC) electrical cables should be routed to avoid the cables running parallel to the pipeline; sub-stations should not be placed adjacent to pipelines.

## Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

---

Where a buried electrical cable or other services are required to cross the pipeline route, then the pipeline operator should specify the minimum clearance distance above or below the pipeline.

### 4.2.2 [Impact upon pipeline cathodic protection](#)

In order to assess any impacts of the Solar PV Installation on the pipeline's cathodic protection (CP) system, the operator may wish to undertake pre-construction and post-construction monitoring. Potential impacts could be as a result of:

- The Solar PV Installation grounding rings or grounding networks shielding the pipeline from the CP system.
- AC interference from buried or above ground AC cables.
- Stay current direct current (DC) interference.

The potential for AC or DC interference could increase under fault conditions or after a period of time if some degradation of the cabling insulation occurs.

Depending upon the perceived risks of the above and / or the result of initial monitoring surveys, the pipeline operator may wish to install long term monitoring systems in order to detect any impact which may compromise the CP system.

The costs of any monitoring systems and any remediation works that are deemed necessary would be recharged to the Solar PV Installation developer.

### 4.2.3 [Lightning strike](#)

It is likely that a Solar PV Installation will result in an increased risk of lightning strike that could impact the buried pipeline. Lightning could pass from the earth system to the pipeline. Over voltages due to lightning may cause serious damage to the pipeline operator's CP system. The operator may request the Solar PV Installation operator to provide them with a lightning assessment.

## 4.3 Other Considerations

As well as observing the siting requirements in Section 5.1, the construction of the proposed Solar PV Installation should be planned such that:

- There is sufficient access for all construction equipment and vehicles avoiding the need to cross over the pipeline.
- There is sufficient separation between the proposed construction activities and the pipeline including any planned crane lifts. Any work within the pipeline easement should be subject to agreement and a permit to work issued by the pipeline operator.

Lifting of equipment over the pipeline route (i.e. the pipeline easement width) should be avoided. The pipeline operator should review and comment on the lifting plans for all planned lifts in the vicinity of the buried pipeline. The pipeline operator may also request to be present whilst these lifts are taking place, see Section 6.

If the crossing of vehicles and heavy machinery over the pipeline cannot be avoided during construction of the Solar PV Installation, then the pipeline operator should agree the specific measures required to protect the pipeline. The pipeline operator should confirm that these measures are in place prior to the commencement of the proposed construction work.

## Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

---

### 4.4 Easement and Wayleave Requirements

The majority of buried pipelines have easements (also known as a Deed of Grant) or wayleaves. These are legal entitlements to rights of access agreed by the pipeline operator with the landowner which allow the pipeline operator to have access to install and maintain the pipeline within a specified strip of land.

Easement and wayleave strips vary in width depending on the diameter and pressure of the pipeline but are typically a strip between 6 m and 25 m in width centred on the pipeline. The majority of easement and wayleave agreements also allow the pipeline operator the right to restrict any permanent construction within the agreed easement strip.

The relevant pipeline operator should provide details of the extent of the easement strip in the vicinity of the proposed Solar PV Installation development.

A Deed of Indemnity may be required for any cables or concrete slabs that cross the pipeline.

### 4.5 Other Assets Associated With the Pipeline

The planned construction works should also recognise any potential impacts on other infrastructure associated with the pipeline. This may include:

- buried cables associated with the pipeline's CP systems,
- anode ground beds associated with the pipeline's CP systems,
- above ground pipeline marker posts and above ground CP system test posts,
- pipeline anchor points, if for example the pipeline is constructed in land that is susceptible to flooding,
- buried pipeline valves, pipeline fittings and pipeline sleeves.

The pipeline operator should provide appropriate advice on the precautions that need to be taken to prevent these systems being damaged.

There may also be buried land drainage in the vicinity of the pipeline, installed by the pipeline operator to protect the pipeline and its associated installations from flooding, or by the landowner to protect their land from the effects of flooding. It is important that both the landowner and the pipeline operator are contacted so that they can advise of the potential impacts of the proposed Solar PV Installation construction works on any buried drainage assets.

## 5. REQUIREMENTS PRE-CONSTRUCTION

### 5.1 Legal Requirements

Under the CDM Regulations the principal designer is required to plan, manage and coordinate the planning and design work to ensure that the installation can be built safely. The principal designer is also required to produce and maintain a health and safety file which must include information related to the management of health and safety risks during any future maintenance, repair, construction work or demolition work. For work in the vicinity of a pipeline, the health and safety file must also recognise the potential hazards associated with the pipeline.

In addition to the CDM Regulations, there are also a number of Regulations that are relevant to construction work in the vicinity of buried pipelines. These include Regulation 15 of the Pipelines Safety Regulations. As detailed in Section 1, Regulation 15 specifies that '*no person shall cause such damage to a pipeline as may give rise to danger to persons*'. In order to meet this legal requirement, it is important that the requirements in the following sections of this document are followed.

### 5.2 Notifications and Consents

It is important that the pipeline operator receives a minimum of 4 week's notice of any planned work within the vicinity of the pipeline. This will allow the pipeline operator to provide the Solar PV Installation developer with early advice which will help with the planning of the proposed work and understand any constraints on the design, including details of any location specific pipeline issues that need to be taken into account. The pipeline operator should expect to be contacted at the following stages of the project:

#### 5.2.1 [Feasibility](#)

At the earliest possible stage in the project, the pipeline operator should be contacted in writing with details of the proposed Solar PV Installation development. This should include details, if known, of the proposed location of the major items of equipment and their foundations that might impact upon the buried pipeline including the location of the solar panels. Details of the planned project timescales should also be provided at this stage. The pipeline operator should be advised when formal planning permission is applied for to facilitate appropriate input into the planning process.

#### 5.2.2 [Following planning consent](#)

Once planning consent has been given, the pipeline operator should be provided with details regarding the proposed location of the major items of equipment. This should include site plans providing the details of supporting foundations and other infrastructure such as the location of buried and/or overhead cables and any other ancillary equipment such as transformers and earthing. Any changes to the proposed project timescales should also be provided at this time.

#### 5.2.3 [Prior to Solar PV Installation Construction](#)

Once the construction programme is known, the pipeline operator should advise on any pipeline protection measures required. The pipeline operator should review construction arrangements and method statements at this stage including lifting plans and site access arrangements. Formal confirmation should be provided to the pipeline operator that any required pipeline protection measures have been put in place before the commencement of any construction work.

Depending on how close the proposed work is to the pipeline route, the pipeline operator may wish to supervise any work that was close to, or over, the pipeline. It is important that these arrangements are agreed with the pipeline operator at this stage.

## Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

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### 5.3 Prior to the Commencement of Physical Work

Prior to the commencement of the proposed construction work, the pipeline operator should review and comment on the method statements for the planned construction activities that might affect the pipeline. These method statements should include details of any pipeline protection requirements and any other constraints on working arrangements specified by the pipeline operator.

Prior to the works commencing, the pipeline operator should review:

- Details of any locations where the pipeline will be crossed with vehicles, plant and equipment, the operator may require additional pipeline protection measures at these locations.
- Details of any utilities that will be crossing the pipeline, including the location of electrical cables and the associated voltages.
- Details of any drainage and fencing.
- The locations of all PV panels and their footings.

The pipeline operator should be given a minimum of 14 days notice prior to the commencement of work on site. The route of the pipeline should be marked out by the pipeline operator or the pipeline operator's representative prior to the commencement of any work on site.

**Note: Pipelines are not always laid in straight lines so the location of the marker posts should never be used to infer the location of the buried pipeline.**

The pipeline operator may require a finger print survey of the CP system so that impact of the Solar PV Installation can be monitored.



## Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

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### 6. CONSTRUCTION

The pipeline operator should provide the Solar PV Installation developer or their nominated agent with details of all of the restrictions that should be observed during the construction of the Solar PV Installation. This will include requirements regarding the use of excavating machinery and power tools in the vicinity of the pipeline and any restrictions with respect to the storage of materials and equipment, including storage compounds, and the parking of vehicles.

The pipeline operator will also provide details of the specific activities that require supervision. **Under no circumstances should any of these activities be undertaken without the pipeline operator or their nominated representative being present.**

The pipeline operator shall confirm that any specified pipeline protection measures, including protection under vehicle access routes and fencing off vehicle access routes and/or roadways, are in place.

No work should commence until the Solar PV Installation developer has received a formal written confirmation from the pipeline operator that all the necessary controls are in place and that the work can proceed.

Any damage to the pipeline, including even minor damage to the pipeline's coating, can have a long term effect on the pipeline's integrity. It is therefore very important that **any damage to the pipeline that occurs during construction work, no matter how slight, shall be reported immediately to the pipeline operator.**

All personnel working on site should be made aware of the potential hazards associated with the pipeline and the actions they should follow in case of an emergency, see Section 9.

If at any time during the course of the new construction the pipeline operator is required to carry out emergency works on the pipeline, the work on the new Solar PV Installation construction should cease until the work has been completed. This work will be carried out in the shortest possible time. The pipeline operator will not be responsible for any delay or associated costs to the Solar PV Installation.

## Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

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### 7. POST CONSTRUCTION

The Solar PV Installation developer should inform the pipeline operator when construction work has been completed. The pipeline operator should undertake a post construction review. This may include:

- A CP survey to confirm that pipeline CP protection is not being adversely affected by the new installation.
- Checks to confirm that the ground cover in and around the pipeline has been reinstated to the correct depth.
- Confirmation that any of the above ground infrastructure such as CP test posts and pipeline marker posts have not been damaged by the construction and installation work.

The pipeline operator will require evidence to confirm that any drainage affected by the construction work has been successfully reinstated.

The pipeline operator will seek to recover from the Solar PV Installation developer costs associated with any remediation/rectification work that may be required to be undertaken by the pipeline operator subsequent to the completion of the Solar PV Installation.

## 8. ONGOING OPERATIONS

As stated in section 4.2.2, the pipeline operator may wish to undertake ongoing monitoring or put long term monitoring systems in place in order to detect any impact which may compromise the CP system.

It is important that the pipeline operator is notified of any ongoing or future operational activities that might impact upon the pipeline. The pipeline operator shall provide the Solar PV Installation operator with the necessary contact details and shall provide guidance on the activities to be notified of and the required pre notification period. This would normally include any underground works within 50 metres of the pipeline. Typically the pipeline operator will require at least 14 days notice prior to any work being undertaken that may impact upon the pipeline.

The pipeline operator should be provided with a contact address and contact telephone number for the Solar PV Installation operating company. The pipeline operator should be notified if these details change.

**It is important that any restrictions or requirements specified by the pipeline operator continue to be observed during the lifetime of the Solar PV Installation. If in any doubt contact the pipeline operator.**

There may be some non-routine operations associated with the pipeline that could have an impact on the operation of the Solar PV Installation. These may possibly include operations that will require the Solar PV Installation to be temporarily shutdown. If this is anticipated, then the pipeline operator will discuss any restrictions on the operation of the Solar PV Installation with the Solar PV Installation operator in advance of the proposed works.

## Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

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### 9. ACTIONS TO TAKE IN THE EVENT OF AN EMERGENCY

Prior to Solar PV Installation operation, the Solar PV Installation operator should liaise with the pipeline operator in order to ensure all of the relevant contact details for use in the event of an emergency have been provided and the key actions that should be taken have been specified.

Typical emergency arrangements will include the following:

#### *In the event of a pipeline leak:*

- Evacuate or remove all personnel from immediate vicinity.
- Dial 999 and call the Fire and Rescue Service (FRS) and Police.
- Contact the relevant Pipeline Operators Control Room (or other emergency contact center) using the emergency number that has been provided.
- Remove all sources of ignition, e.g. stop engines, stop smoking, extinguish all naked flames, and do not use any electrical apparatus.
- Prevent the approach of traffic and the general public.
- Assist in safeguarding persons and property as necessary or as requested by the Police, FRS or pipeline operator.
- Do not attempt to stop or seal any leak at source.

#### *Action to be taken if damage has occurred to the pipeline:*

- Contact the pipeline operator or his/her agent.
- Do not backfill and await the representative of the pipeline operator to inspect the damage and decide on the action required.
- Evacuate the immediate vicinity of the pipeline – if the pipeline has not failed you should assume that it could fail.

**Note that should a pipeline fail, the hazards that result are product specific; it is important that the pipeline operator's advice for a specific pipeline is followed.**

## 10. REFERENCES

1. A Guide to the Pipelines Safety Regulations 1996, HSE Document L82.
2. IGEM/TD/1 Edition 5, Communication 1735, Steel Pipelines and Associated Installations for High Pressure Gas Transmission.
3. PD 8010-1:2015 Code of Practice for Steel Pipelines on Land.
4. A Preliminary Review of Wind and Solar Power Generation to Ascertain Possible Threats to Pipeline Integrity – Rev A (ref UKOPA/BD/15/022) prepared by John Dyson of Corrosion Consultancy Services Ltd, 28 January 2016.