



Notes  
 A. 2No. 200mm BOC pipelines running along bank

Key:  
 ————— Existing canal  
 ■ ■ ■ ■ ■ Proposed new alignment  
 ● ● ● ● ● Original line of canal

Services  
 E Electricity  
 G Gas  
 O/F Overflow  
 S Sewer  
 T Telephone  
 W Water

B. Track restoration completed by St. Helens MBC.

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue	Rev	Date	Authorised

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Client  
**WARRINGTON BOROUGH COUNCIL**

Project  
**ST HELENS CANAL RESTORATION**

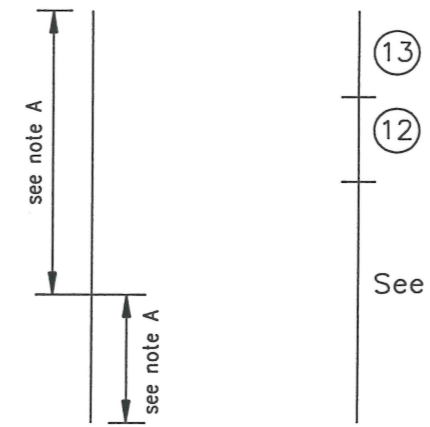
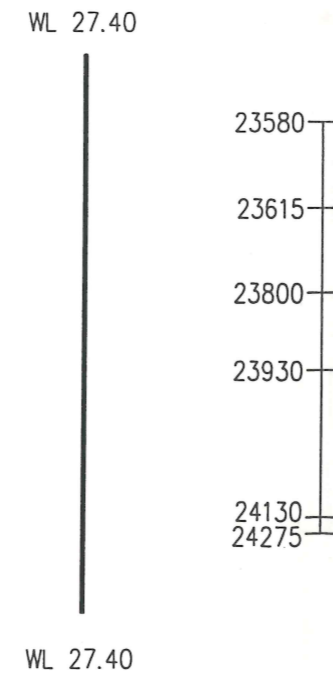
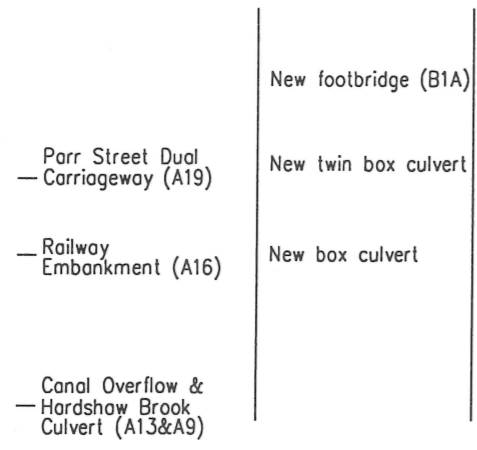
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	Date 11.95	Date 5.96	Date	

Drawing Number	Rev
<b>AY2311/120/850/032</b>	

A3

1	2	3	4	5	6
Existing Features	Proposed Features	Pound Level	Chainage	Statutory services	Canal detail Ref. No.






See Notes

Notes

A. 2No. 200mm BOC pipelines running along bank

Key:

-  Existing canal
-  Proposed new alignment
-  Original line of canal

Services

- E Electricity
- G Gas
- O/F Overflow
- S Sewer
- T Telephone
- W Water

B. Track restoration completed by St. Helens MBC.

See Notes

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue	Rev	Date	Authorised

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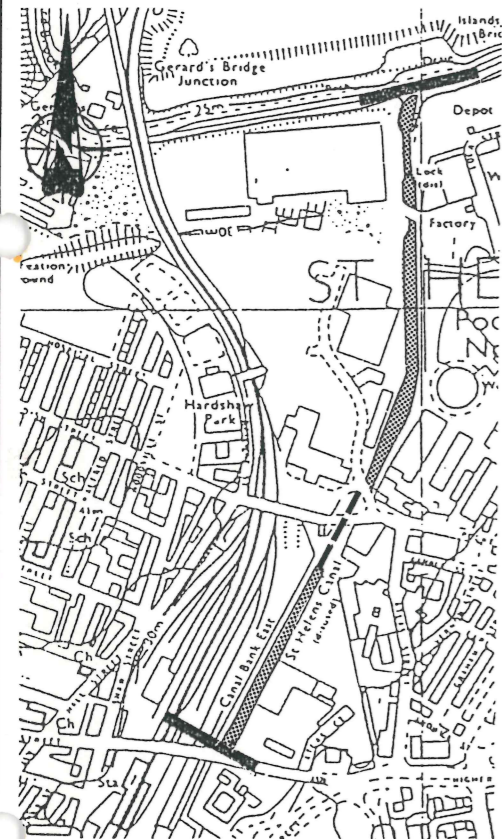
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	Date 11.95	Date 5-96	Date	

Drawing Number	Rev
<b>AY2311/120/850/033</b>	

**A3**

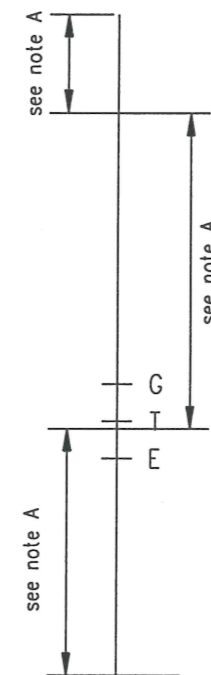
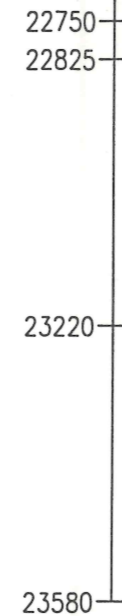
1	2	3	4	5	6
Existing Features	Proposed Features	Pound Level	Chainage	Statutory services	Canal detail Ref. No.



- New Double Lock (B19)
- Ravenshead Glass Access (B17)
- Technology Campus Access (B11)
- Corporation Street Bridge (B1)

New box culvert  
 New box culvert

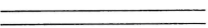


WL 23.15



Notes

- A. 2No. 200mm BOC pipelines running along north bank
- B. 2No. 200mm BOC pipelines cross canal (Nitrogen/Hydrogen supply to Pilkingtons)

Key:

-  Existing canal
-  Proposed new alignment
-  Original line of canal

Services

- E Electricity
- G Gas
- O/F Overflow
- S Sewer
- T Telephone
- W Water

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue	Rev	Date	Authorised

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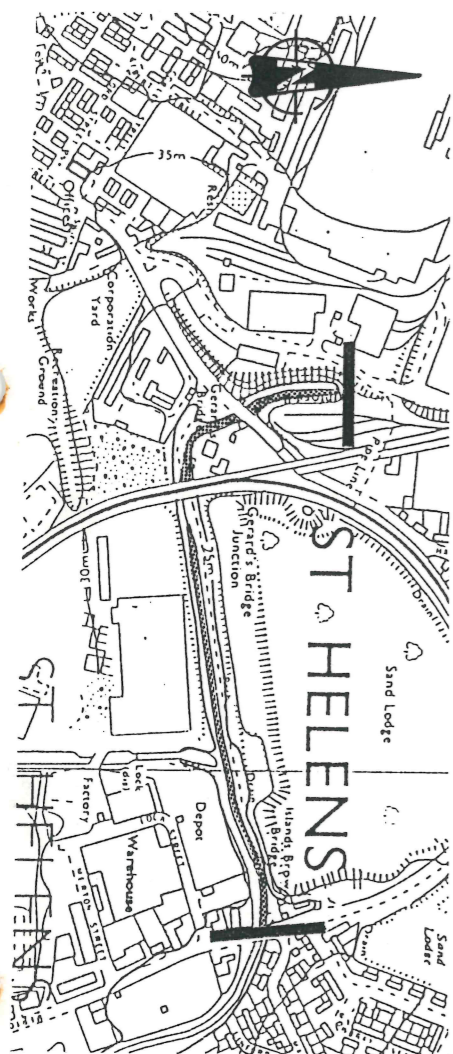
Project  
**ST HELENS CANAL RESTORATION**

Title  
**SECTION - B2**

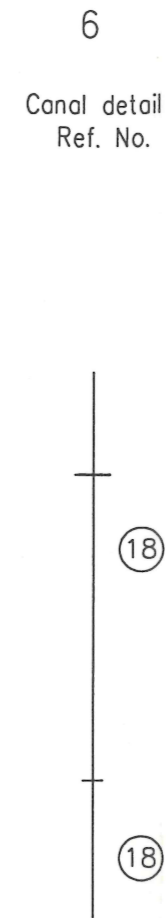
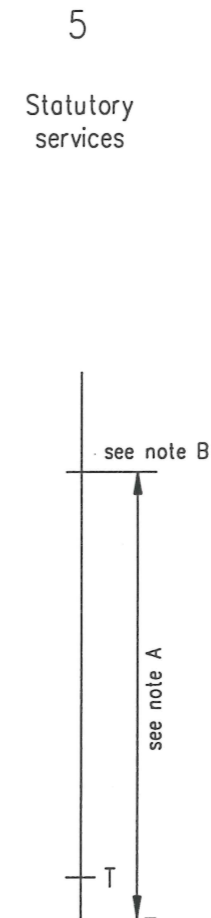
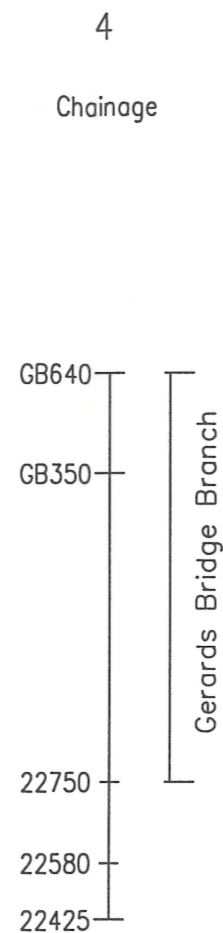
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	Date 11.95	Date 5/96	Date	

Drawing Number	Rev
<b>AY2311/120/850/034</b>	

**A3**






1 Existing Features	2 Proposed Features
Liverpool - Wigan Railway Bridge (B23)	Restoration to terminate at railway
New Double Lock (B19)	Raise existing footbridge
Steel footbridge (B26A)	New box culvert
Merton Bank Road Bridge (B26)	



Notes

Key:

-  Existing canal
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Services

- E Electricity
- G Gas
- O/F Overflow
- S Sewer
- T Telephone
- W Water

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue	Rev	Date	Authorised

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Project  
**ST HELENS CANAL RESTORATION**

Title  
**SECTION - C1**

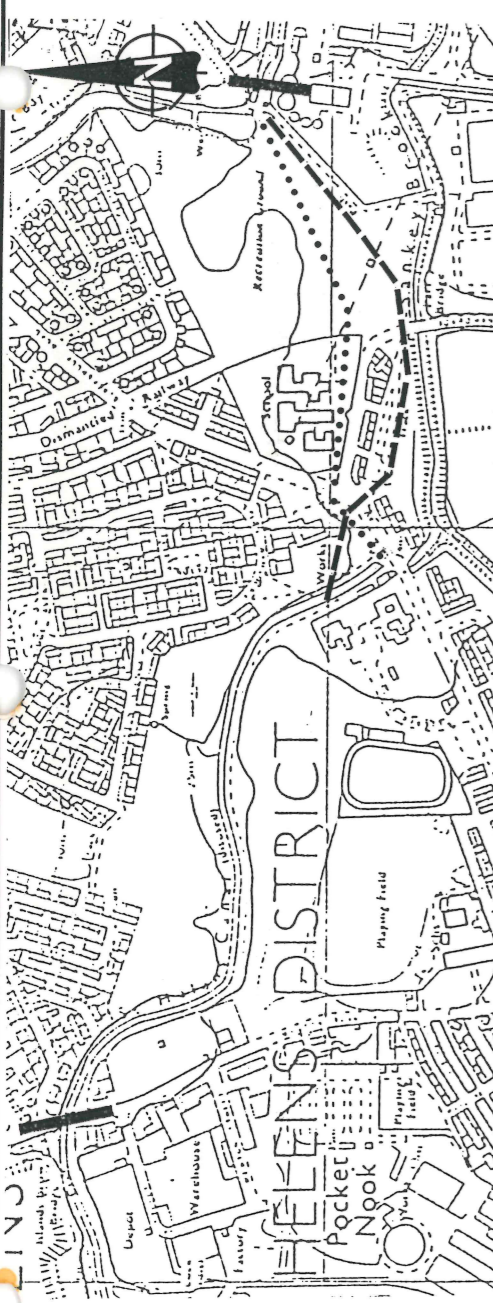
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Drawing Number	Rev
<b>AY2311/120/850/035</b>	

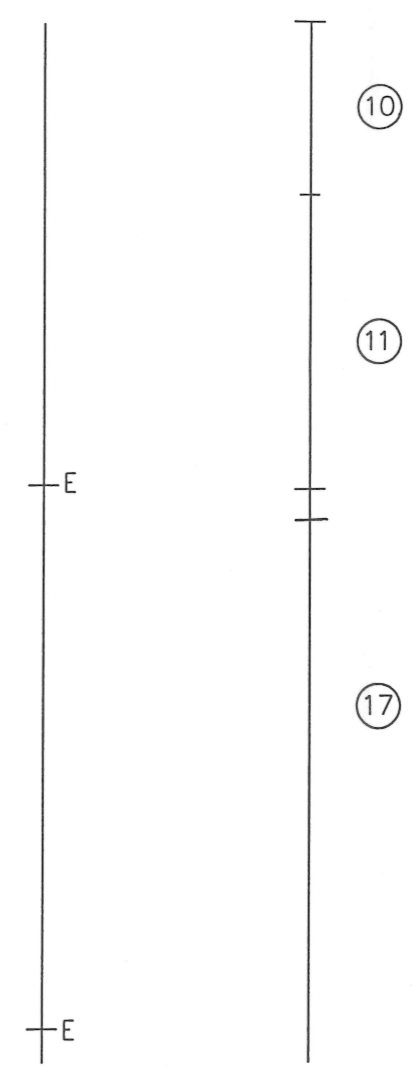
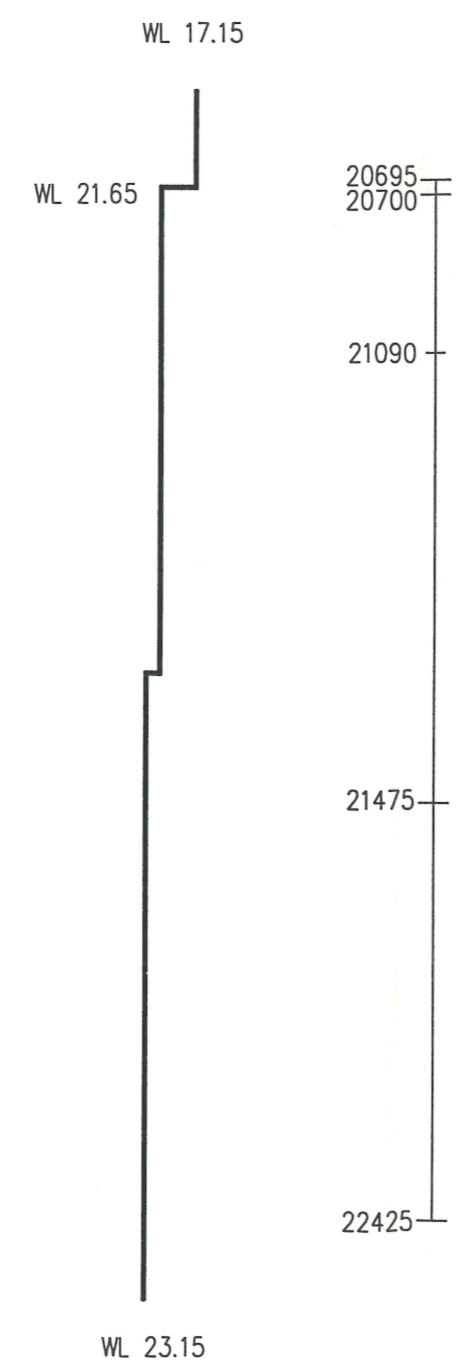
**A3**

AutoCAD File Ref. E:\Y2311\030\035.DWG

1	2	3	4	5	6
Existing Features	Proposed Features	Pound Level	Chainage	Statutory services	Canal detail Ref. No.



Old Double Lock and Footbridge (C11&12)	New junction lock adjacent to existing lock (C11A)
Boardmans Lane (C6A)	New box culvert
Park Road (C6)	New twin box culvert New Park Road Lock (C4A)
Canal Overflow (C4)	Maintain/modify existing structure



10




11

17

Notes

- A. 16" OD Steel Pipe on canal bed to BB700, then leaves canal 8"MP continues to follow canal along path
- B. 8" MP and 18" OD Steel along path  
16" OD Steel Pipe in canal bed

Key:

-  Existing canal
-  Proposed new alignment
-  Original line of canal

Services

- E Electricity
- G Gas
- O/F Overflow
- S Sewer
- T Telephone
- W Water

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue	Rev	Date	Authorised

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Project  
**ST HELENS CANAL RESTORATION**

Title  
**SECTION - C2**

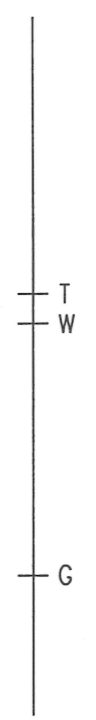
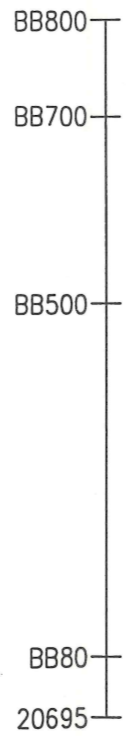
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Drawing Number  
**AY2311/120/850/036**

**A3**

1	2	3	4	5	6
Existing Features	Proposed Features	Pound Level	Chainage	Statutory services	Canal detail Ref. No.

WL 23.15



see note A

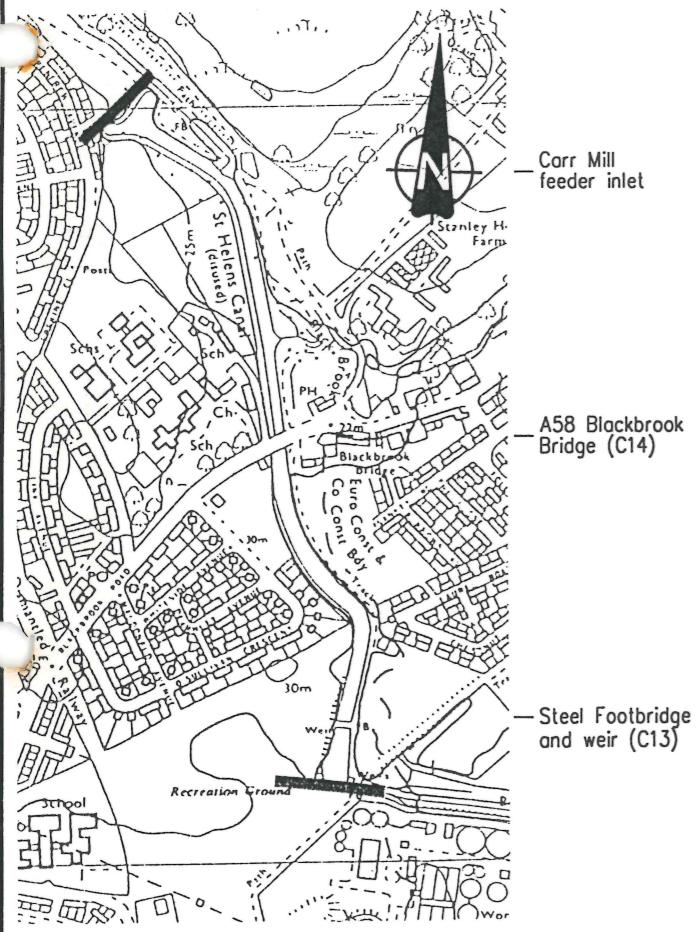
see note B

Retained as feeder channel only.

WL 21.65




Renovate side basin and modify overflow

Maintain/modify existing structures



Notes

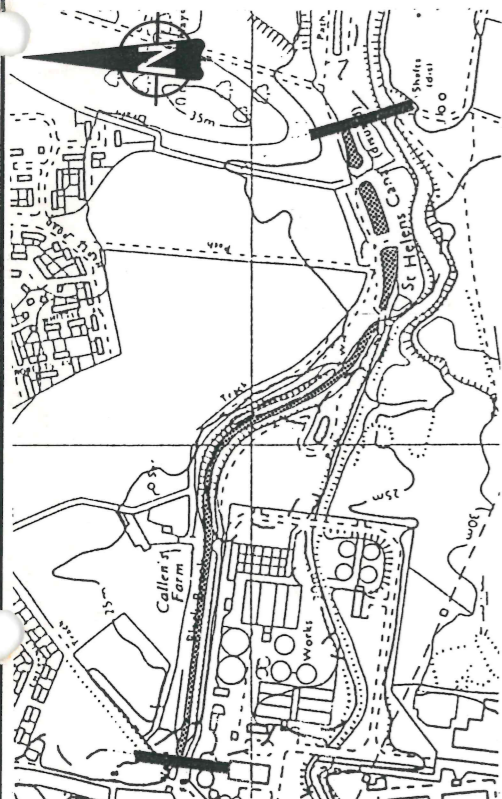
Key:

-  Existing canal
-  Proposed new alignment
-  Original line of canal

Services

- E Electricity
- G Gas
- O/F Overflow
- S Sewer
- T Telephone
- W Water

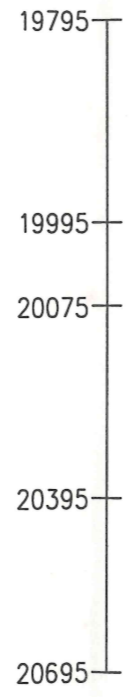
1	2	3	4	5	6
Existing Features	Proposed Features	Pound Level	Chainage	Statutory services	Canal detail Ref. No.



Engine Lock (D18)	Rebuild lock
Sankey Brook / Canal Footbridge (D15)	Demolish bridge
Blackbrook culvert (D12)	New concrete pipe culvert Restore old Canal Basin
Concrete Pipe Bridge (D7)	Remove disused pipe Bridge

WL 15.95

WL 17.15




9

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Purpose of issue: Rev:    Date:    Authorised:

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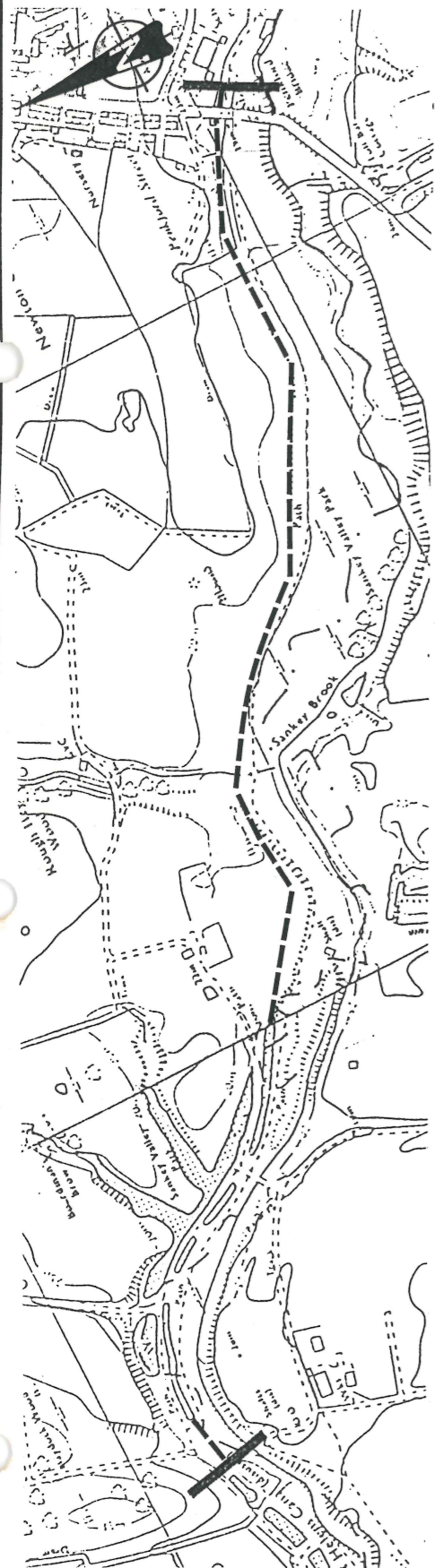
Project: **ST HELENS CANAL RESTORATION**

Title: **SECTION - D**

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	Date	Date	Date	
	11.95	5.96		

Drawing Number: **AY2311/120/850/037**

**A3**



1 Existing Features  
 - Overflow weir to Sankey Brook (E15)  
 - Overhead Pipework (E14)  
 - A572 Penkford Bridge (E12) 15)

2 Proposed Features  
 Remove pipework  
 Havannah Flash New footbridge (E9)

3 Pound Level  
 WL 15.95  
 WL 17.15

4 Chainage  
 17655  
 17670  
 17675  
 19285  
 19795

5 Statutory services

6 Canal detail Ref. No.

Notes  
 Key:  
 ————— Existing canal  
 - - - - - Proposed new alignment  
 ●●●●● Original line of canal

Services  
 E Electricity  
 G Gas  
 O/F Overflow  
 S Sewer  
 T Telephone  
 W Water

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue: \_\_\_\_\_ Rev: \_\_\_\_\_ Date: \_\_\_\_\_ Authorised: \_\_\_\_\_

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Project  
**ST HELENS CANAL RESTORATION**

Title  
**SECTION - E**

Original Scale NTS	Drawn APC	Checked <i>[Signature]</i>	Authorised Date	Status
	Date 11.95	Date 5-96	Date	

Drawing Number  
**AY2311/120/850/038**

8

**A3**

Notes

X. Ethylene pipe crosses at both points marked 'X'

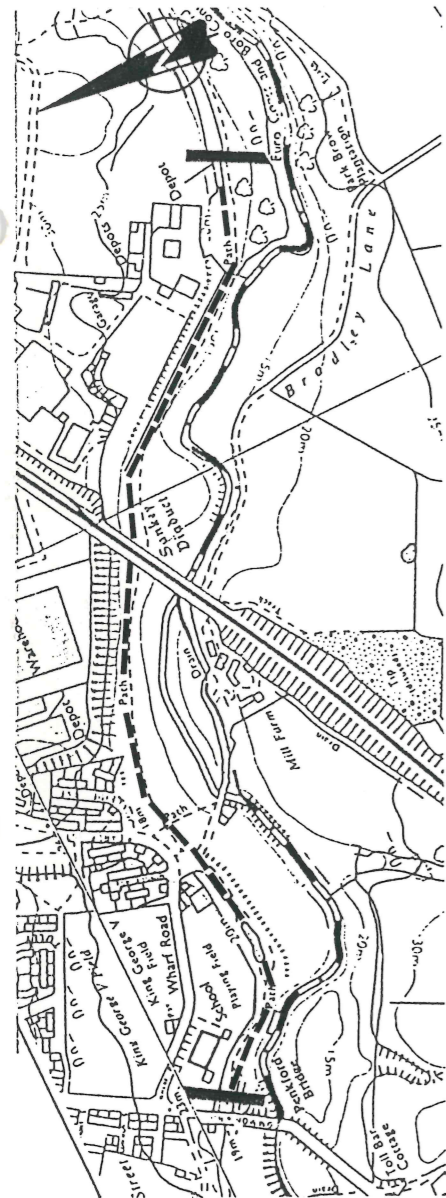
Key:

- Existing canal
- ▬ Proposed new alignment
- Original line of canal

Services

- E Electricity
- G Gas
- O/F Overflow
- S Sewer
- T Telephone
- W Water

1 Existing Features  
 2 Proposed Features  
 3 Pound Level  
 4 Chainage  
 5 Statutory services  
 6 Canal detail Ref. No.



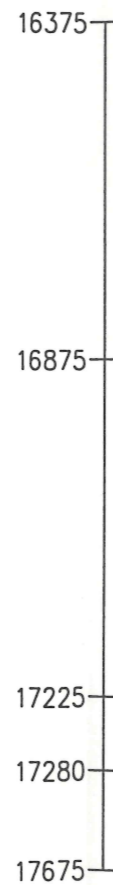
— Sankey Viaduct (F5)

— Newton Common Lock (F4)

Rebuild/  
Refurbish lock

New box  
culvert (F4A)

WL 14.80



WL 15.95



8

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue	Rev	Date	Authorised

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Title  
**SECTION - F**

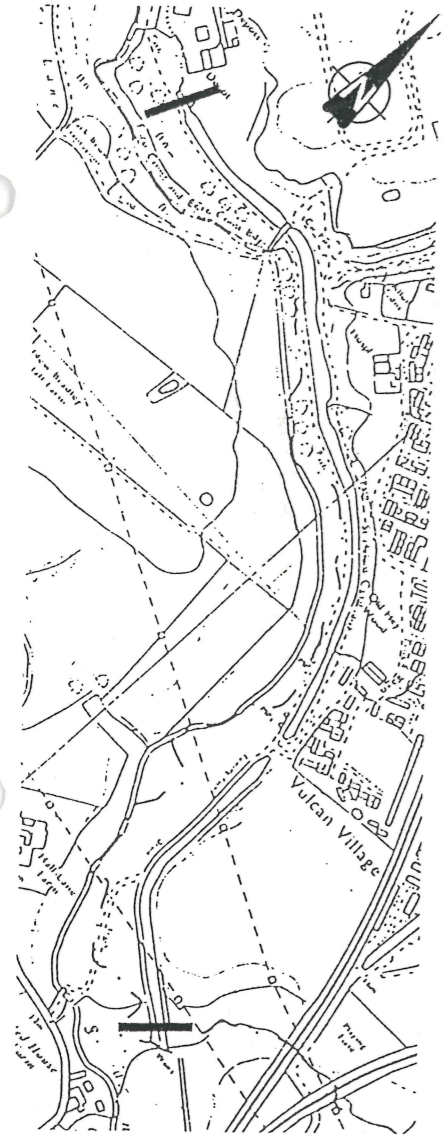
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	Date 11.95	Date 5.96	Date	

Drawing Number	Rev
<b>AY2311/120/850/039</b>	

**A3**

Notes  
 Key:  
 Existing canal  
 Proposed new alignment  
 Original line of canal  
 Services  
 E Electricity  
 G Gas  
 O/F Overflow  
 S Sewer  
 T Telephone  
 W Water

1	2	3	4	5	6
Existing Features	Proposed Features	Pound Level	Chainage	Statutory services	Canal detail Ref. No.
Bradley Lock (G1)	Refurbish lock	WL 14.80	16375		
Bradley Swing Bridge (G3)	Refurbish bridge		16075		
Hey Lock (G10)	Refurbish lock	WL 13.00	15185	G	
Newton Brook Crossing (G17)	New culvert for Newton Brook	WL 11.80	14635		



N.B. In sections G to N Chainage reads downwards from top of page.

5

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Purpose of issue  
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Project  
**ST HELENS CANAL RESTORATION**

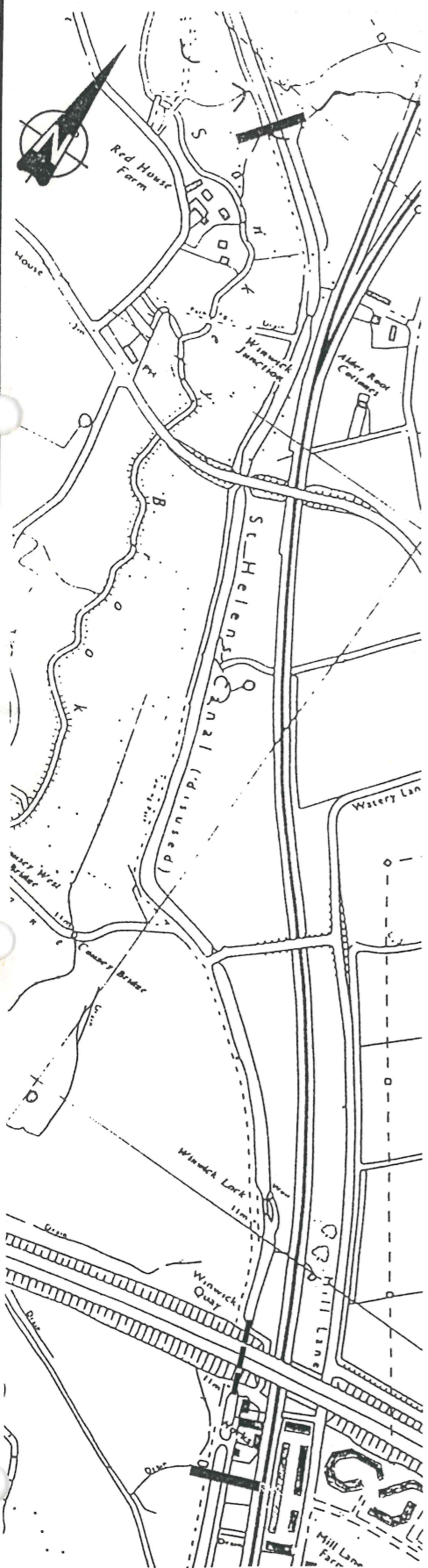
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Drawing Number  
**AY2311/120/850/040**

A3

1 Existing Features  
 2 Proposed Features  
 3 Pound Level  
 4 Chainage  
 5 Statutory services  
 6 Canal detail Ref. No.



WL 11.80

14635

14115

13365

12950

12695

12795

12645

WL 10.05

S  
S

G  
G

7

16

Notes  
 Key:  
 ————— Existing canal  
 ■■■■■ Proposed new alignment  
 ●●●●● Original line of canal  
 Services  
 E Electricity  
 G Gas  
 O/F Overflow  
 S Sewer  
 T Telephone  
 W Water

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue Rev Date Authorised  
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**ST HELENS CANAL RESTORATION**

Title  
**SECTION - H**

Original Scale NTS	Drawn APC Date 11.95	Checked [Signature] Date 5.86	Authorised Date	Status
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Drawing Number  
**AY2311/120/850/041**  
 Rev

**A3**

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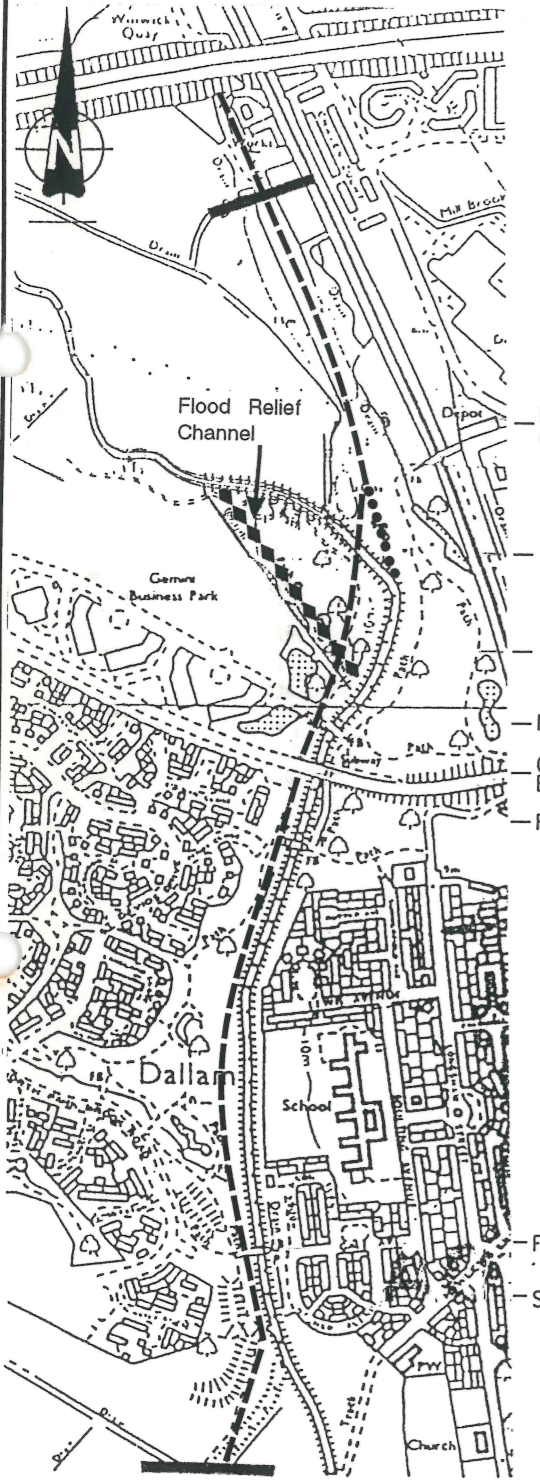
**Notes**

- Key:**
- Existing canal
  - ▬▬▬▬▬▬ Proposed new alignment
  - Original line of canal

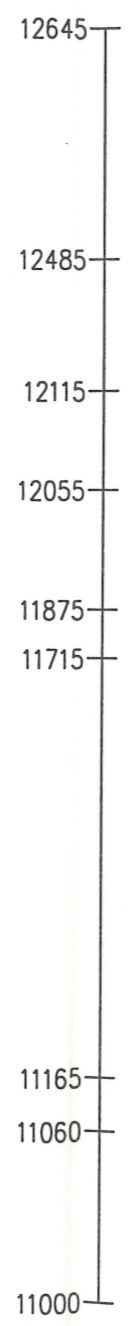
**Services**

- E Electricity
- G Gas
- O/F Overflow
- S Sewer
- T Telephone
- W Water

1	2	3	4	5	6
Existing Features	Proposed Features	Pound Level	Chainage	Statutory services	Canal detail Ref. No.



WL 10.05



S  
E  
G  
O/F  
2xE, O/F  
O/F  
E  
O/F

16

14

15

New canal cut parallel to Sankey Brook

WL 7.50

Rev	Description	By	Date	Chk'd	Auth

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**ST HELENS CANAL RESTORATION**

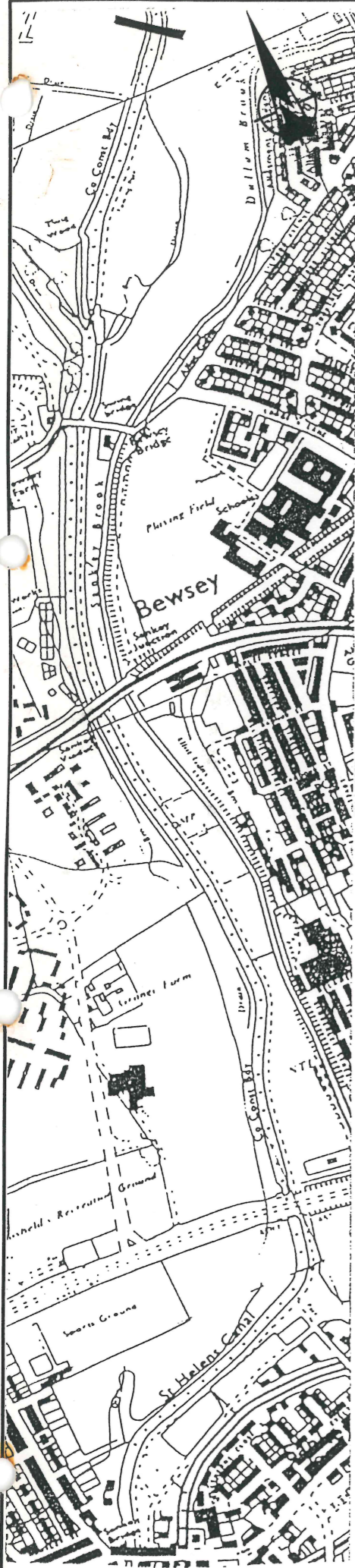
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NTS	APC	APC		
	Date	Date	Date	
	11.95	5-96		

Drawing Number	Rev
<b>AY2311/120/850/042</b>	

**A3**

AutoCAD File Path: E:\Y2311\030\043.DWG



- Footbridge over Sluice (K1)
- Canal Overflow (K3)
- Bewsey Lock and footbridge (K4 and K4A)
- Bewsey Swing Bridge (K6)
- Bewsey Footbridge (K6A)
  
- Seven Arches Railway Viaduct (K10)
- High Level Footbridge (K11)
  
- Sankey Way Culvert (K13)
- Sankey Valley Footbridge (K15)

Refurbish lock and build new footbridge

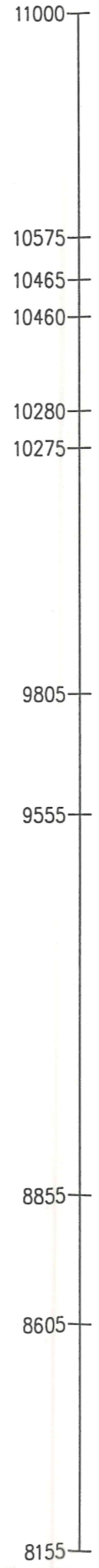
New swing Bridge

New twin box Culvert

WL 7.50

WL 6.65



15

6

5



**Notes**

X. 6" ICI Hydrogen pipeline and a 10 1/4" OD PFD and 16" steel gas pipeline in bed of canal

Y. 10 1/4" and 16" gas pipelines in eastern canal bank

**Key:**

— Existing canal

▬ Proposed new alignment

● Original line of canal

**Services**

E Electricity

G Gas

O/F Overflow

S Sewer

T Telephone

W Water

Rev	Description	By	Date	Chk'd	Auth

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Client **WARRINGTON BOROUGH COUNCIL**

Project **ST HELENS CANAL RESTORATION**

Title **SECTION - K**

Original Scale	Drawn	Checked	Authorised	Status
NTS	APC	[Signature]		
	Date 11.95	Date 5.96	Date	

Drawing Number **AY2311/120/850/043**

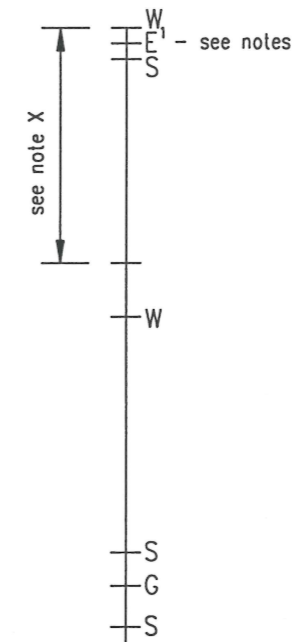
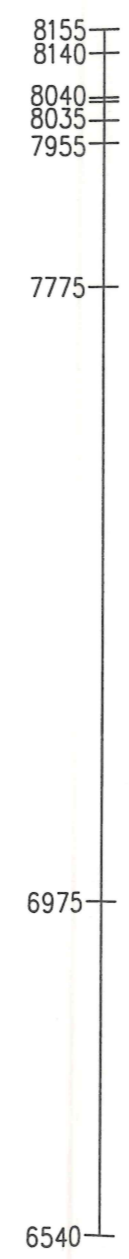
**A3**

1	2	3	4	5	6
Existing Features	Proposed Features	Pound Level	Chainage	Statutory services	Canal detail Ref. No.



Liverpool Road Bridge (L1)	New swing bridge
Disused Swing Bridge (L2)	Remove bridge
Service Bridge (L3A) Warrington - Widnes Railway (L3)	Divert services
Sankey Brook Overflow (L6)	New box culvert
Mayers Swing Bridge (L7)	New lift bridge

WL 6.65



5

4

2

**Notes**

E.1 33kV cables running between Sankey Bridges and Swing Bridge

X. 6" ICI hydrogen pipeline and 10 1/4" OD PFD and a 16" steel gas pipeline in canal bed

**Key:**

- Existing canal
- Proposed new alignment
- Original line of canal

**Services**

- E Electricity
- G Gas
- O/F Overflow
- S Sewer
- T Telephone
- W Water

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue: Rev Date Authorised

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 Birchwood  
 Warrington WA3 7WA  
 Tel. (01925) 828987 Fax. (01925) 828153

Client: **WARRINGTON BOROUGH COUNCIL**

Project: **ST HELENS CANAL RESTORATION**

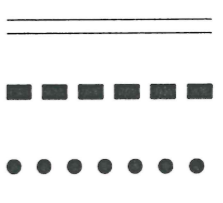
Title: **SECTION - L1**

Original Scale	Drawn	Checked	Authorised	Status
NTS	APC	JMH		
	Date 11.95	Date 5.96	Date	

Drawing Number: **AY2311/120/850/044** Rev

**A3**

Notes  
 E.<sup>1</sup> O/H electricity cable between Ferry Inn (PH) and gantry, underground between gantry and sailing club (along canal) O/H resumes at sailing club

Key:  
  
 Existing canal  
 Proposed new alignment  
 Original line of canal

Services  
 E Electricity  
 G Gas  
 O/F Overflow  
 S Sewer  
 T Telephone  
 W Water

Rev	Description	By	Date	Chk'd	Auth

**WS Atkins – North West**  
 a division of WS Atkins Consultants Limited  
 WS Atkins House  
 Birchwood Boulevard  
 Birchwood  
 Warrington WA3 7WA  
 Tel. (01925) 828987 Fax. (01925) 828153  


Client  
**WARRINGTON BOROUGH COUNCIL**

Project  
**ST HELENS CANAL RESTORATION**

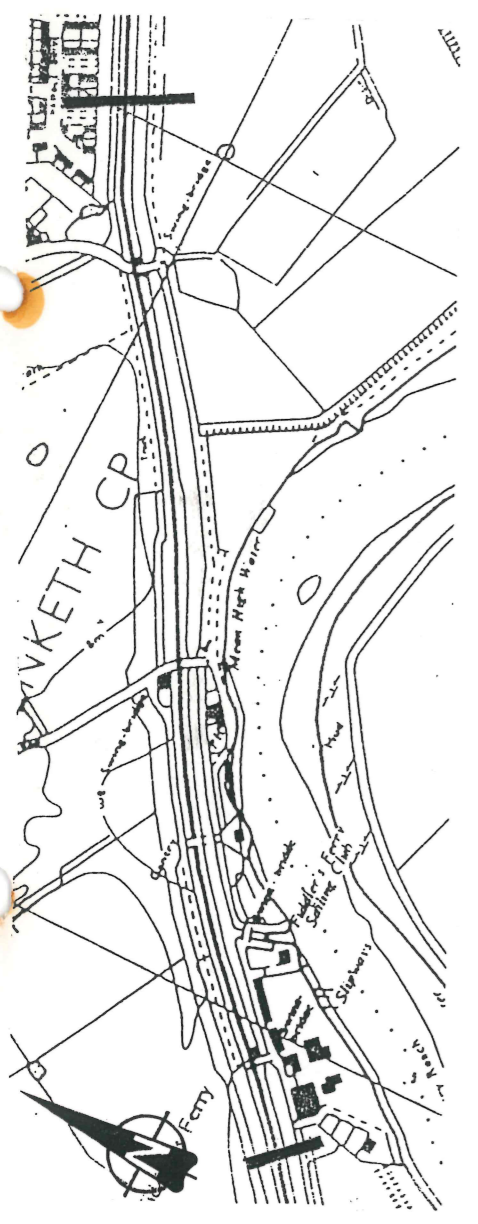
Title  
**SECTION - L2**

Original Scale NTS	Drawn APC Date 11.95	Checked <i>APC</i> Date 5.96	Authorised Date	Status
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Drawing Number <b>AY2311/120/850/045</b>	Rev
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**A3**

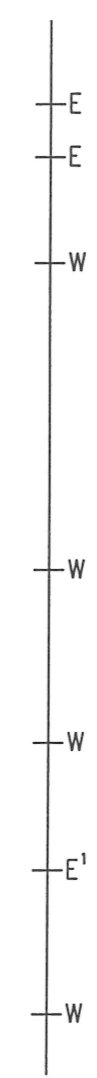
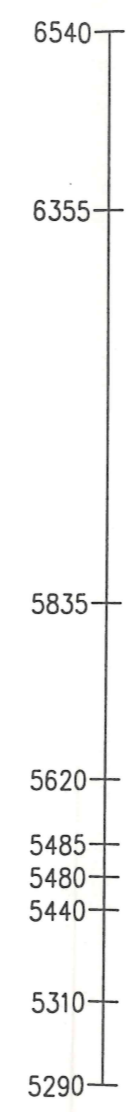
1	2	3	4	5	6
Existing Features	Proposed Features	Pound Level	Chainage	Statutory services	Canal detail Ref. No.



Existing Features	Proposed Features
— Penketh Bridge (L9) — Penketh Brook culvert (L9A)	Modify into lift bridge
— Fiddlers Ferry Swing Bridge (L11)	New swing bridge
— Swing Footbridge (L18) — Ferry Lock (L22A) — Ferry Lock Swing Bridge (L22)	
— Marsh House Bridge (L24)	New swing bridge

WL 6.65

WL 6.65

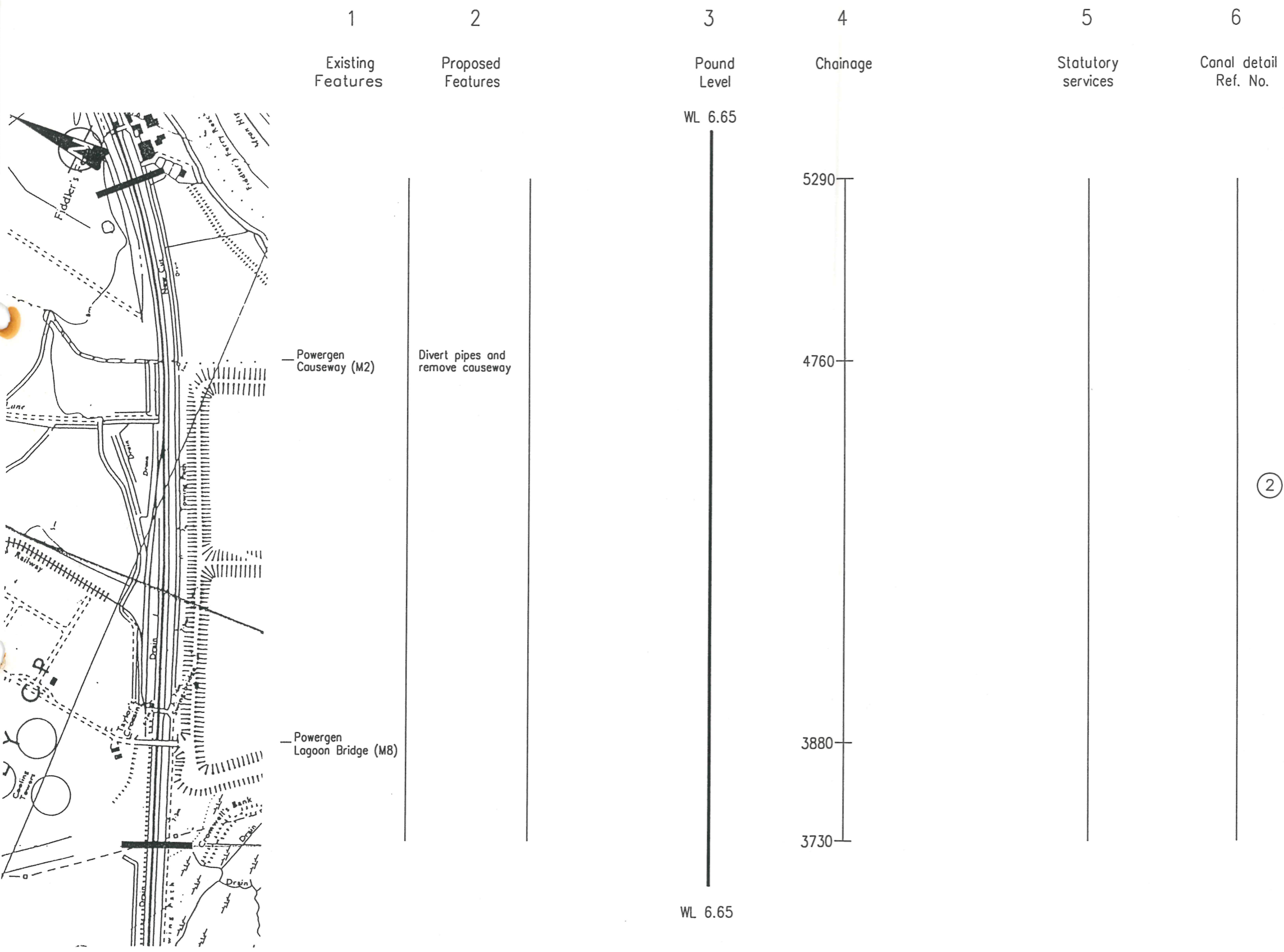


②

④

②

AutoCAD File Ref. E:\Y2311\030\046.DWG



**Notes**  
**Key:**  
 ————— Existing canal  
 ■■■■■ Proposed new alignment  
 ●●●●● Original line of canal

**Services**  
 E Electricity  
 G Gas  
 O/F Overflow  
 S Sewer  
 T Telephone  
 W Water

②

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue	Rev	Date	Authorised

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 Birchwood Boulevard  
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 Certificate No. FS 20794

Client  
**WARRINGTON BOROUGH COUNCIL**

Project  
**ST HELENS CANAL RESTORATION**

Title  
**SECTION - M1**

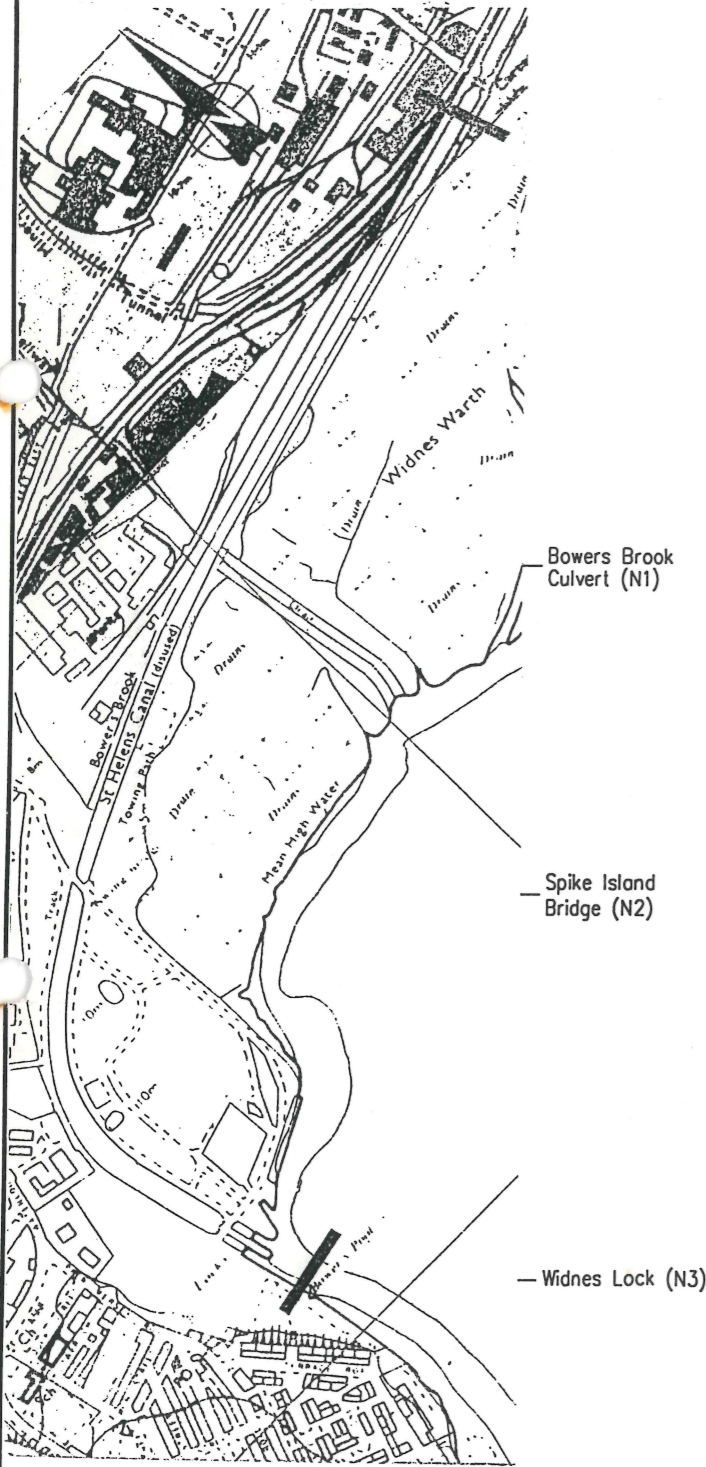
Original Scale	Drawn	Checked	Authorised	Status
NTS	APC	<i>[Signature]</i>		
	Date 11.95	Date 5.96	Date	

Drawing Number  
**AY2311/120/850/046**

**A3**



1 Existing Features  
 2 Proposed Features  
 3 Pound Level  
 4 Chainage  
 5 Statutory services  
 6 Canal detail Ref. No.



WL 6.65



WL 6.65

S  
S  
G  
E  
E  
G

2

1

Notes  
 Key:  
 ————— Existing canal  
 ■■■■■■■■ Proposed new alignment  
 ●●●●●●●● Original line of canal

Services  
 E Electricity  
 G Gas  
 O/F Overflow  
 S Sewer  
 T Telephone  
 W Water

Rev	Description	By	Date	Chk'd	Auth

Purpose of issue: \_\_\_\_\_ Rev: \_\_\_\_\_ Date: \_\_\_\_\_ Authorised: \_\_\_\_\_

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Client  
**WARRINGTON BOROUGH COUNCIL**

Project  
**ST HELENS CANAL RESTORATION**

Title  
**SECTION - N**

Original Scale NTS	Drawn APC Date 11.95	Checked [Signature] Date 5.96	Authorised Date	Status
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Drawing Number  
**AY2311/120/850/048**

**A3**