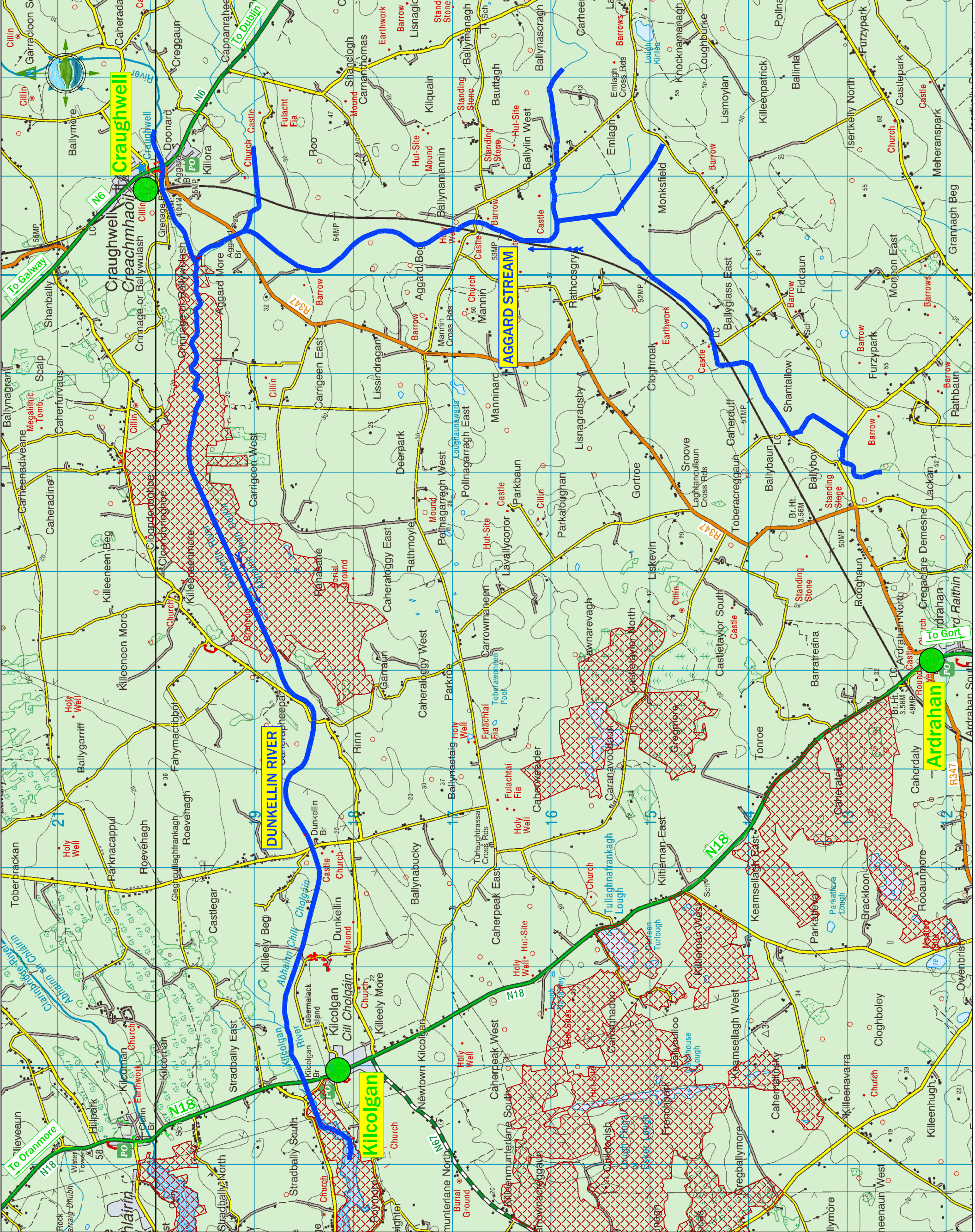


# Appendix No. 1

## Drawings

1. Scheme Overview and Location Map
2. Flood Plain Map from the November 2009 Event
3. Longitudinal Sections of Dunkellin River
4. Sketches of the Proposed & Existing Bridges along Dunkellin River



**LEGEND**

RIVER

SAC's pNHAs, & SPA

- NOTES:**
- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
  - ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
  - ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
  - THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
  - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

Rev.	Date	Description	By	Check
A	06/10	First Issue	S.H.	M.M.D.

**Client:** Office of Public Works

**Project:** Study to identify practical measures to address flooding on the Dunkellin River and the Aggard Stream

**Title:** Study Area Location

Scale @ A3: nts

Prepared by: S.H.

Checked: M.M.D.

Date: June 2010

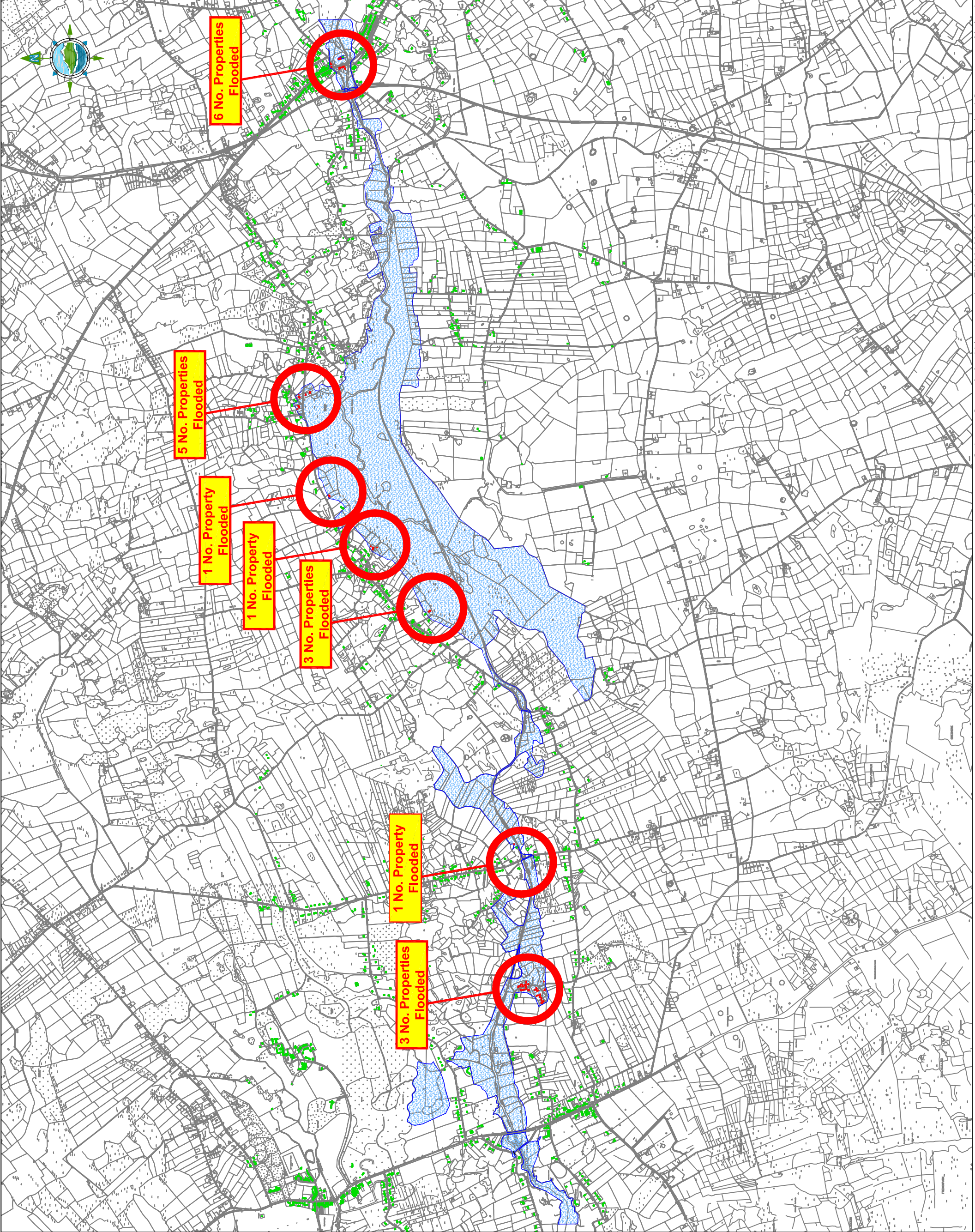
Project Director: Michael Garrick

Drawing Status:

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 Tel: +353 (0)19 565211  
 Fax: +353 (0)19 565398  
 e-mail: galway@tobin.ie  
 www.tobin.ie

Drawing No: **5968-1000**

Revision: **A**



**LEGEND**

RIVER

Estimated flood extent from November 2009 event

- NOTES:**
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  2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
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Rev.	Date	Description	By	Check
A	06/10	First Issue	S.H.	M.McD.

Client: **Office of Public Works**

Project: **Study to identify practical measures to address flooding on the Dunkellin River and the Aggard Stream**

Title: **November 2009 Flood Event Dwelling Flooded**

Scale @ A3: nts

Prepared by: S.H. Checked by: M.McD. Date: June 2010

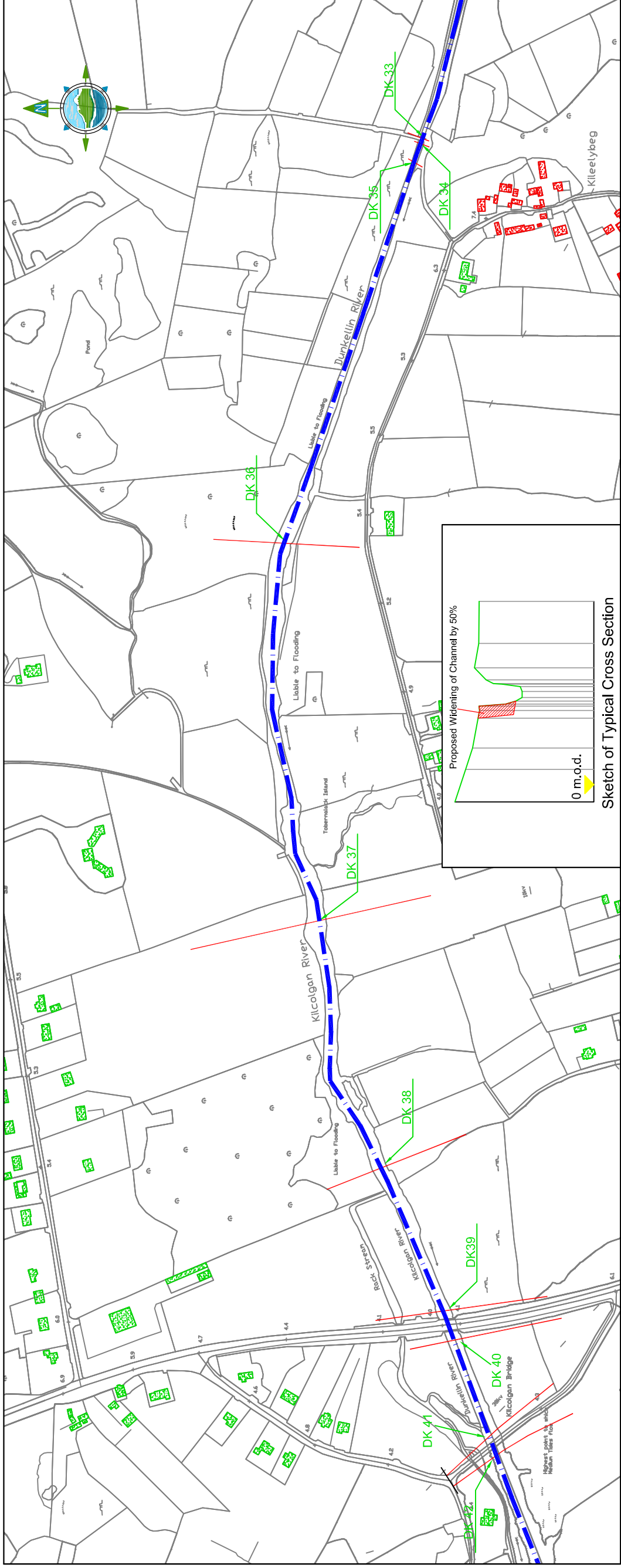
Project Director: Michael Garrick

Drawing Status:

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 Consulting Engineers,  
 Fairgreen House, Fairgreen Road,  
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 fax: +353-091-565398  
 e-mail: galway@tobin.ie  
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Drawing No: **5968-1001**

Revision: **A**



**LEGEND**

RIVER

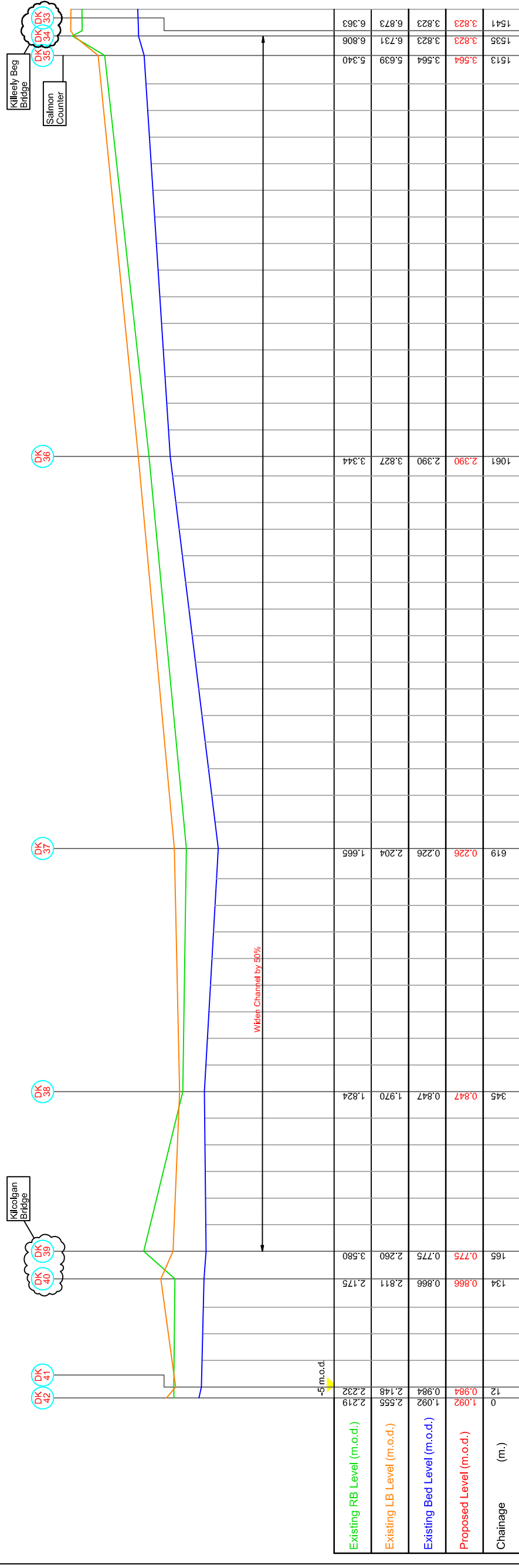
Surveyed Cross Section location

DK 39

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Rev.	Date	Description	By	Check
A	06/10	First Issue	S.H.	M.McD.



**Client:** Office of Public Works

**Project:** Study to identify practical measures to address flooding on the Dunkellin River and the Aggard Stream

**Title:** Layout Plan & Longitudinal Section of Existing channel and Proposed works  
Sheet 1 of 8

**Scale @ A3:** H - 1:5000 V - 1:200

**Prepared by:** S.H. **Checked by:** M.McD. **Date:** June 2010

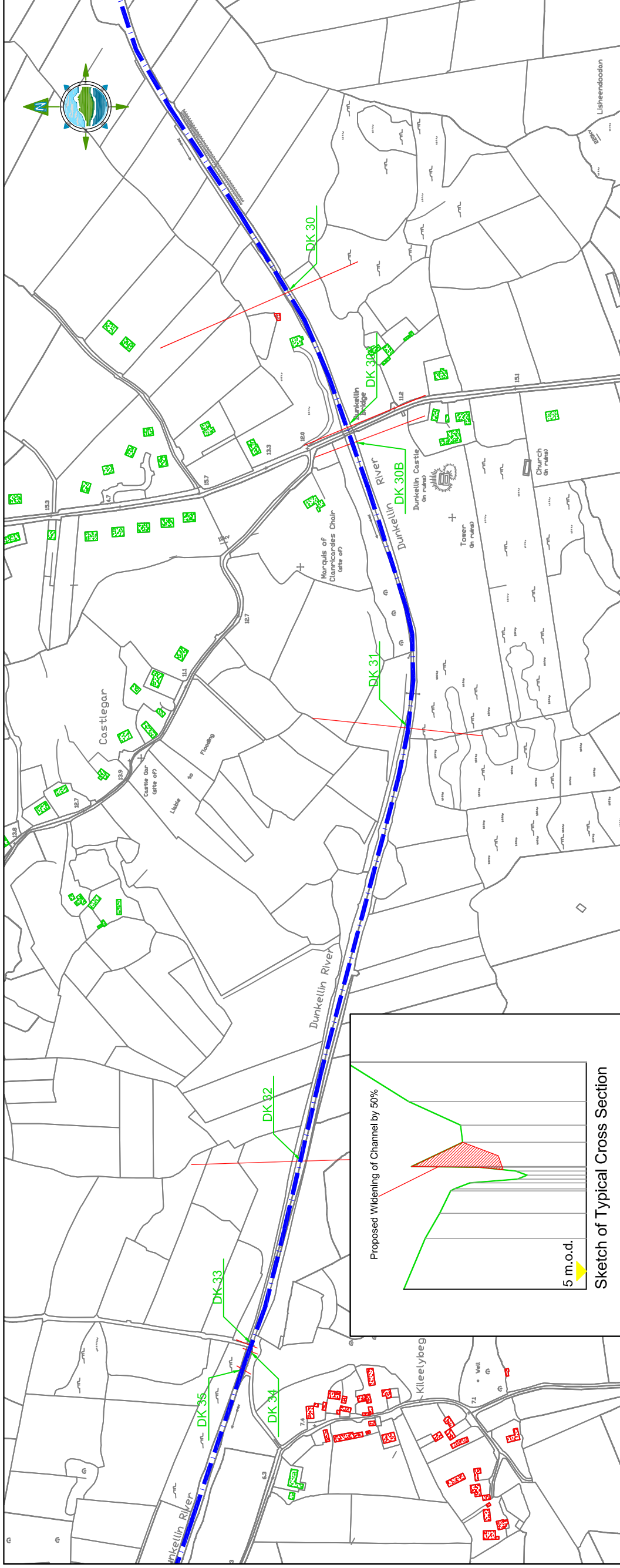
**Project Director:** Michael Garrick

**Drawing Status:**

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Patrick Tobin & Co. Ltd.  
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fax: +353-091-565398  
e-mail: galway@tobin.ie  
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Revision: **A**

Drawing No: **5968-1002**



**LEGEND**

RIVER

Surveyed Cross Section location

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Rev	Date	Description	By	Check
A	06/10	First Issue	S.H.	M.M.D.

Client: **Office of Public Works**

Project: **Study to identify practical measures to address flooding on the Dunkellin River and the Aggard Stream**

Title: **Layout Plan & Longitudinal Section of Existing channel and Proposed works**  
Sheet 2 of 8

Scale @ A3: **H - 1:5000 V - 1:200**

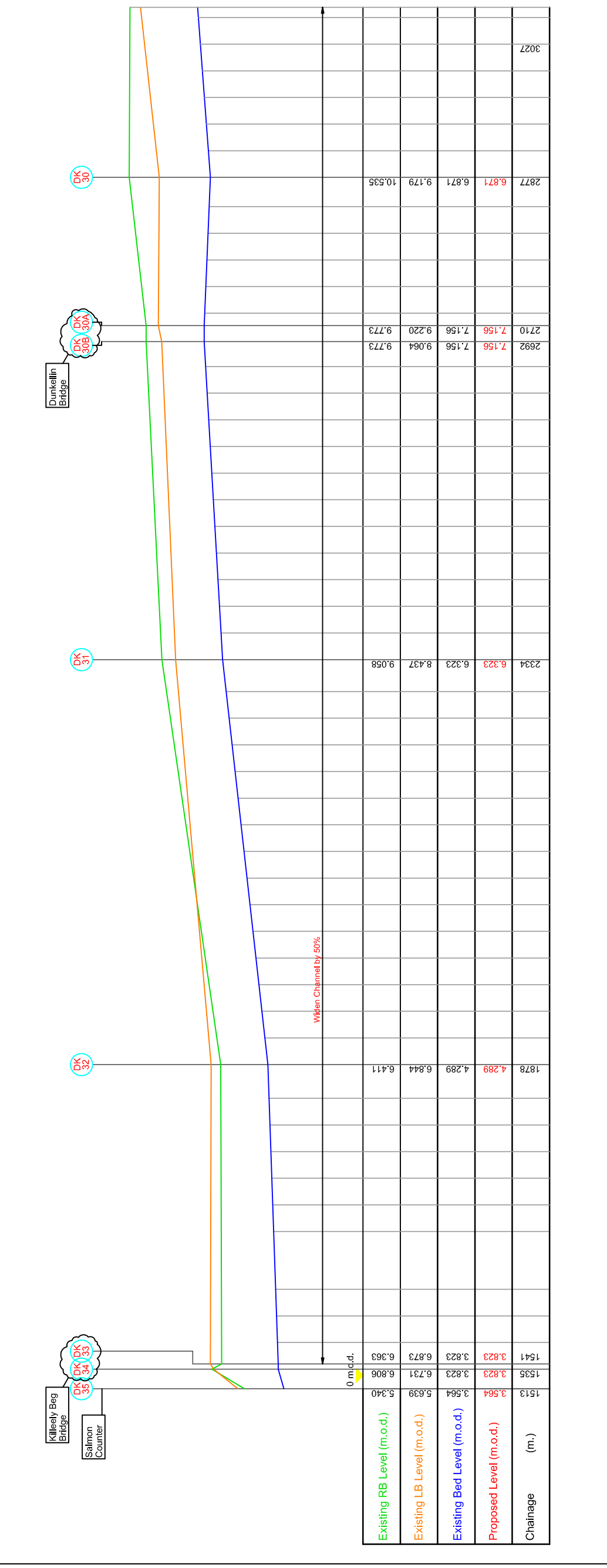
Prepared by: **S.H.** Checked: **M.McD.** Date: **June 2010**

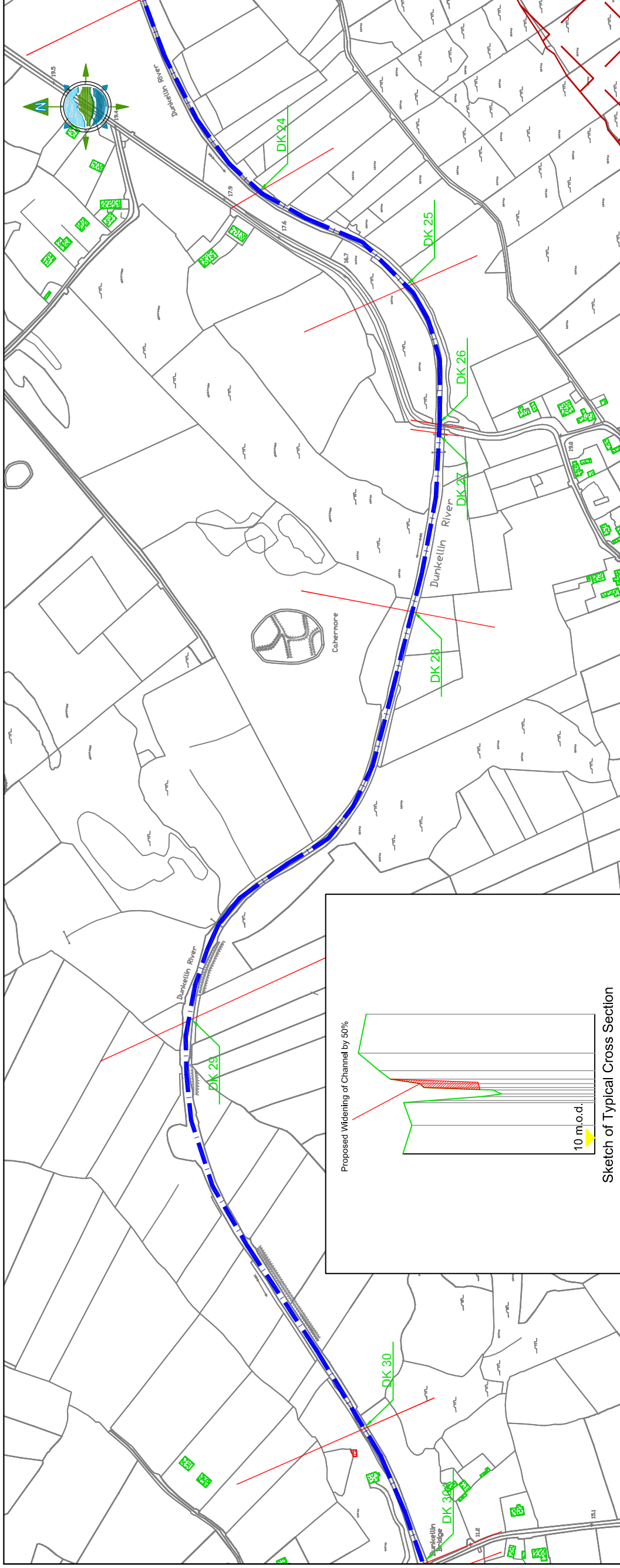
Project Director: **Michael Garrick**

Drawing Status:

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Drawing No: **5968-1003** Revision: **A**





**LEGEND**

RIVER

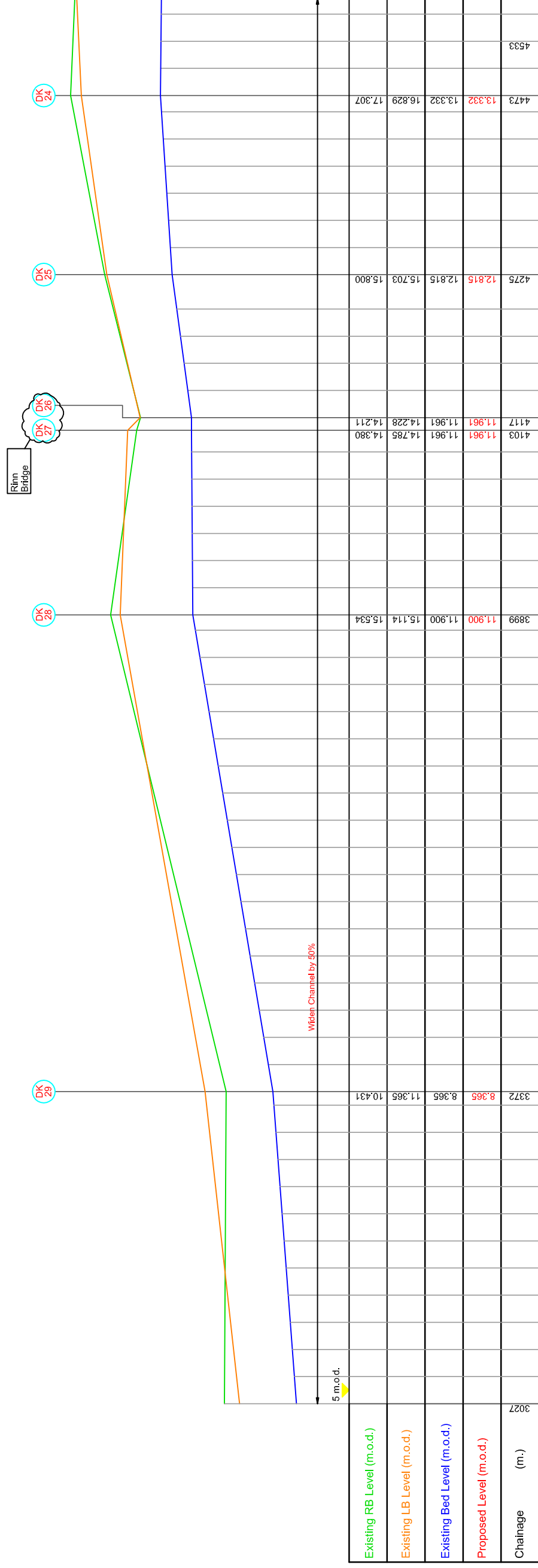
Surveyed Cross Section location

DK 30

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Rev.	Date	Description	By	Check
A	06/10	First Issue	S.H.	M.McD.



Client: Office of Public Works

Project: Study to identify practical measures to address flooding on the Dunkellin River and the Aggard Stream

Title: Layout Plan & Longitudinal Section of Existing channel and Proposed works  
Sheet 3 of 8

Scale @ A3: H - 1:5000 V - 1:200

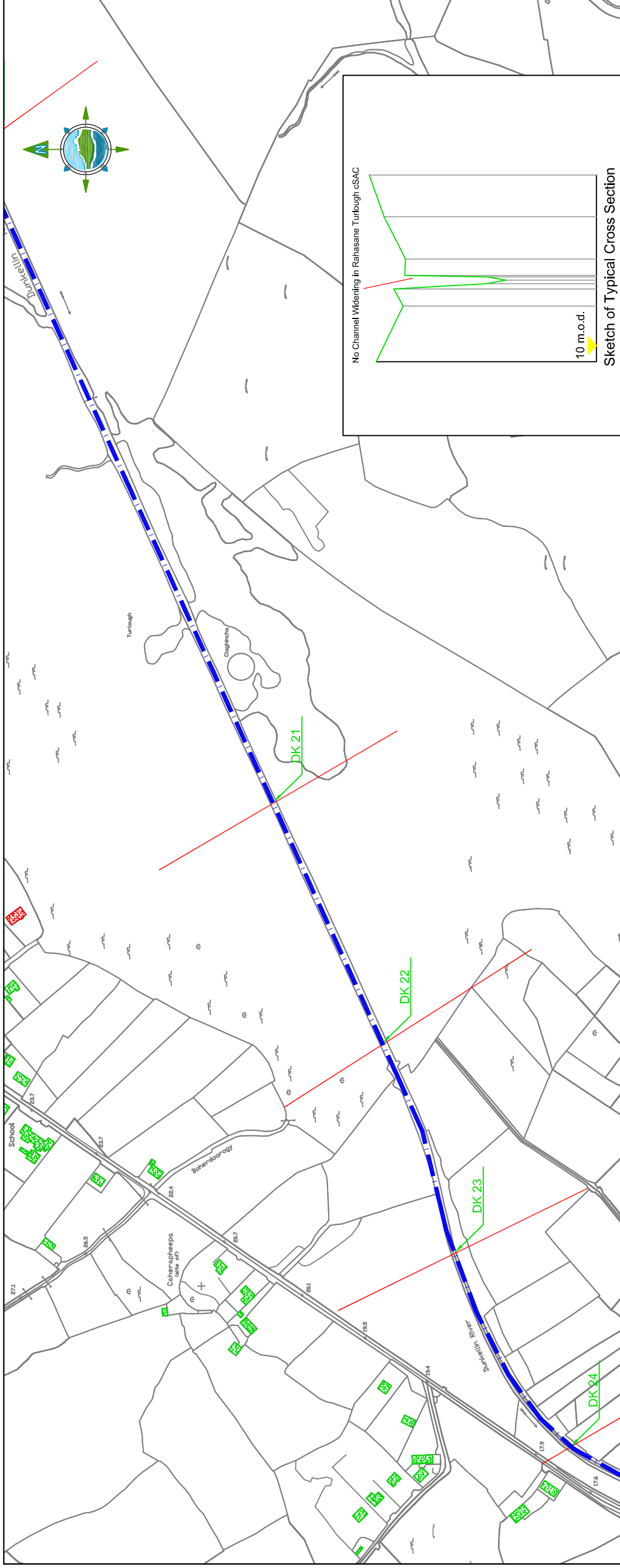
Prepared by: S.H. Checkered by: M.McD. Date: June 2010

Project Director: Michael Garrick

Drawing Status:

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e-mail: galway@tobin.ie  
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Drawing No: 5968-1004  
Revision: A



**LEGEND**

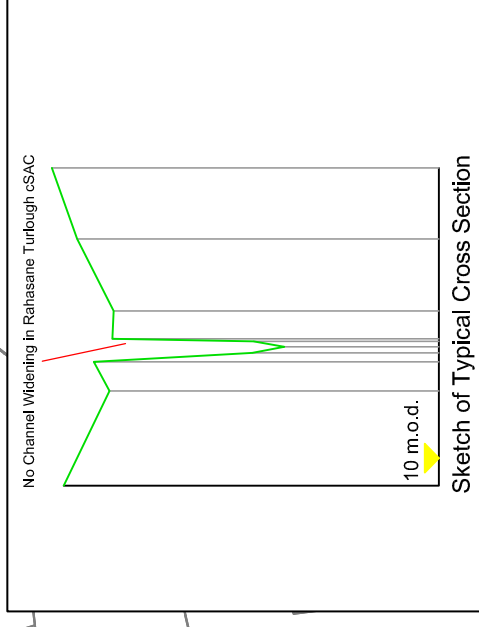
RIVER

Surveyed Cross Section location

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Rev	Date	Description	By	Check
A	06/10	First Issue	S.H.	M.McD.



Chainage (m.)	Existing RB Level (m.o.d.)	Existing LB Level (m.o.d.)	Existing Bed Level (m.o.d.)	Proposed Level (m.o.d.)
4533				
4733	13.242	17.321	13.242	13.242
4967	13.120	14.819	13.120	13.120
5274	13.120	14.836	13.120	13.120
6024				

When Channel by 50%

It is Not Proposed to Complete any Works Within the Rahasane Turbough cSAC

DK 23 DK 22 DK 21

10 m.p.d.

**Client:** Office of Public Works

**Project:** Study to Identify practical measures to address flooding on the Dunkellin River and the Aggard Stream

**Title:** Layout Plan & Longitudinal Section of Existing channel and Proposed works  
Sheet 4 of 8

Scale @ A3: H - 1:5000 V - 1:200

Prepared by: S.H. Check: M.McD. Date: June 2010

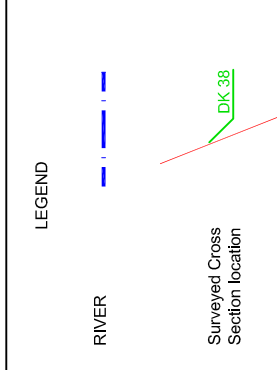
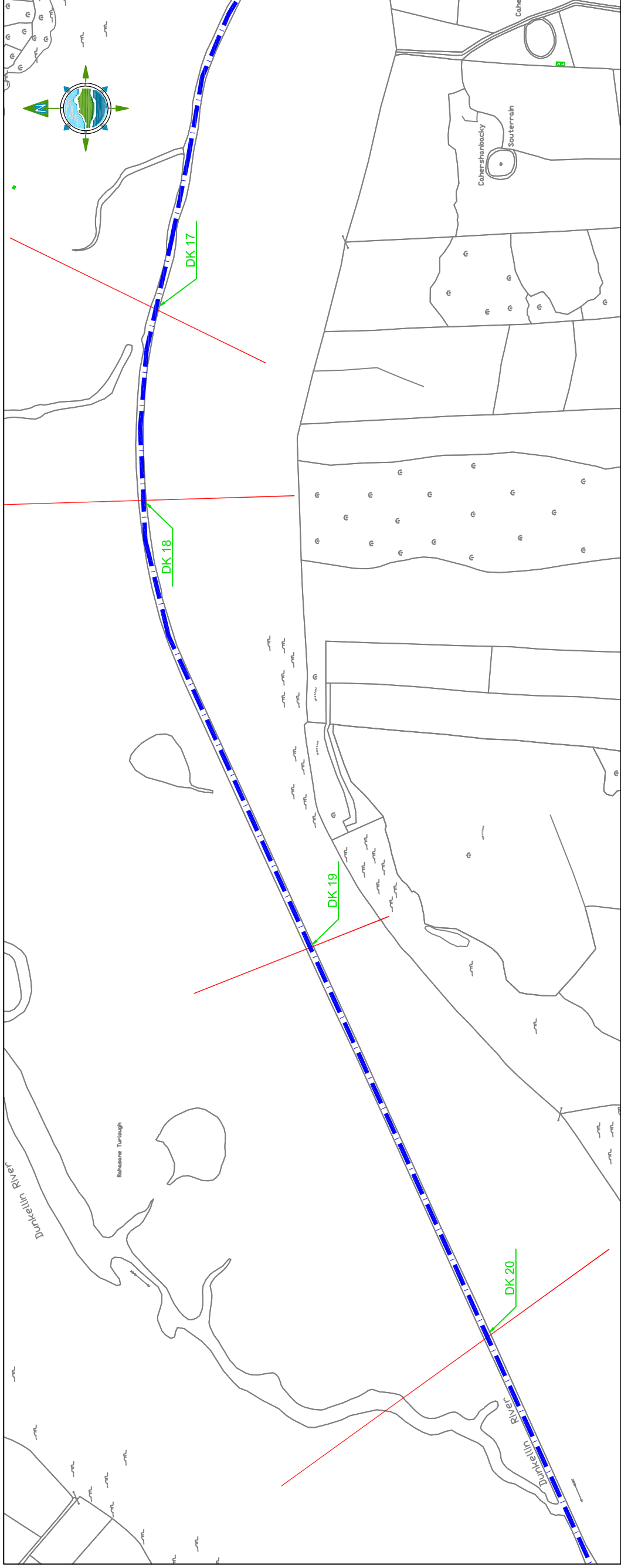
Project Director: Michael Garrick

Drawing Status:

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Patrick Tobin & Co. Ltd.  
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Galway, Ireland.  
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Drawing No: **5968-1005**

Revision: **A**



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Rev.	Date	Description	By	Check
A	06/10	First Issue	S.H.	M.McD.

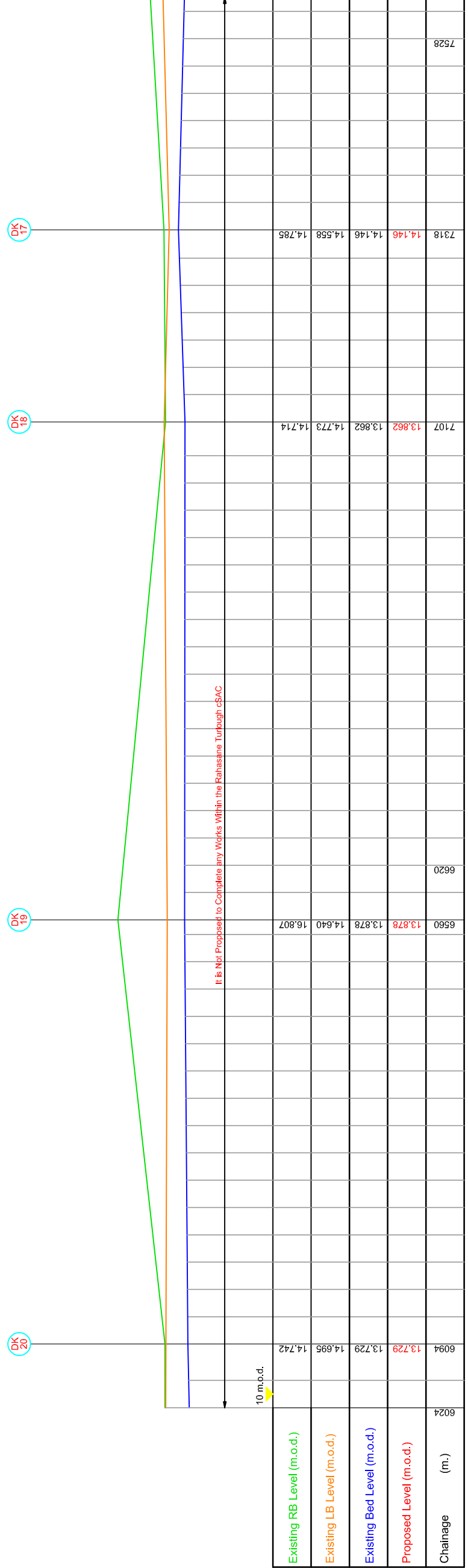
Client: **Office of Public Works**

Project: **Study to identify practical measures to address flooding on the Dunkellin River and the Aggard Stream**

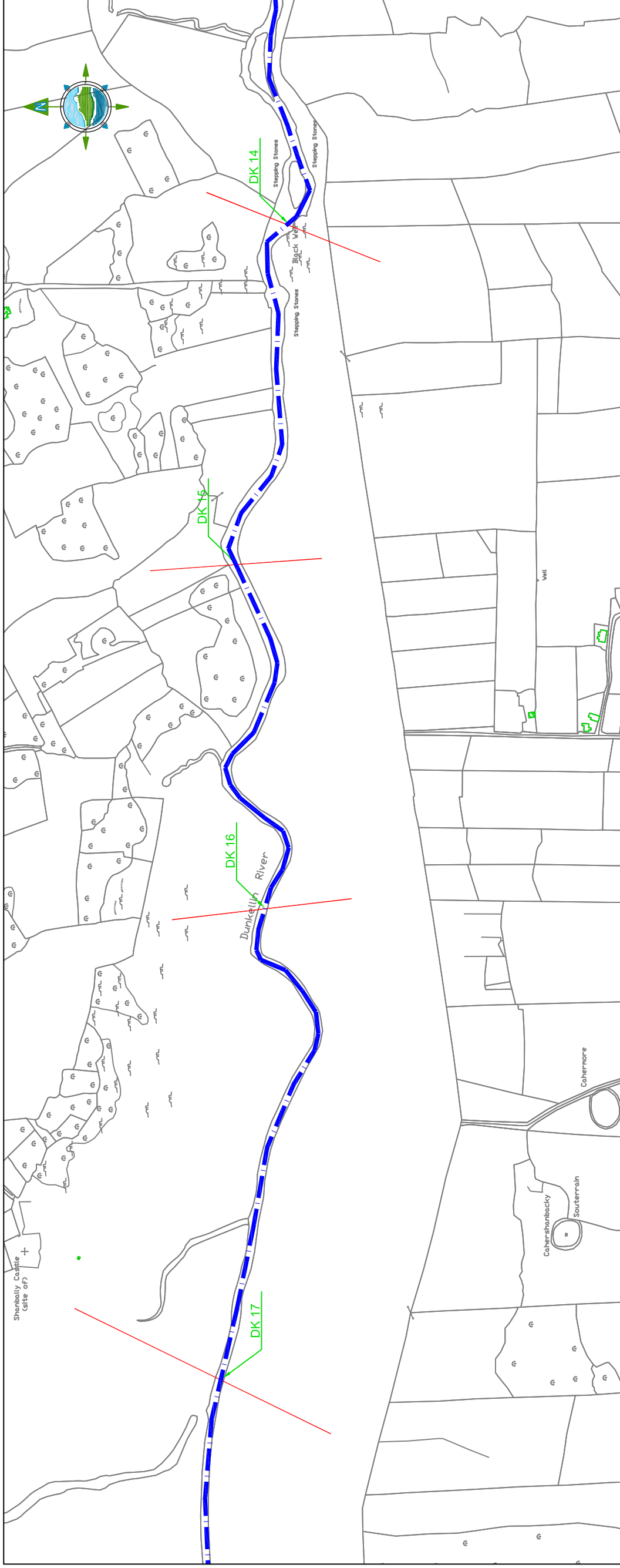
Title: **Layout Plan & Longitudinal Section of Existing channel and Proposed works Sheet 5 of 8**

Scale @ A3: **H - 1:5000 V - 1:200**  
 Prepared by: **S.H.** Check: **M.McD.** Date: **June 2010**  
 Project Director: **Michael Garrick**  
 Drawing Status:

Drawing No: **5968-1006** Revision: **A**







**LEGEND**

RIVER

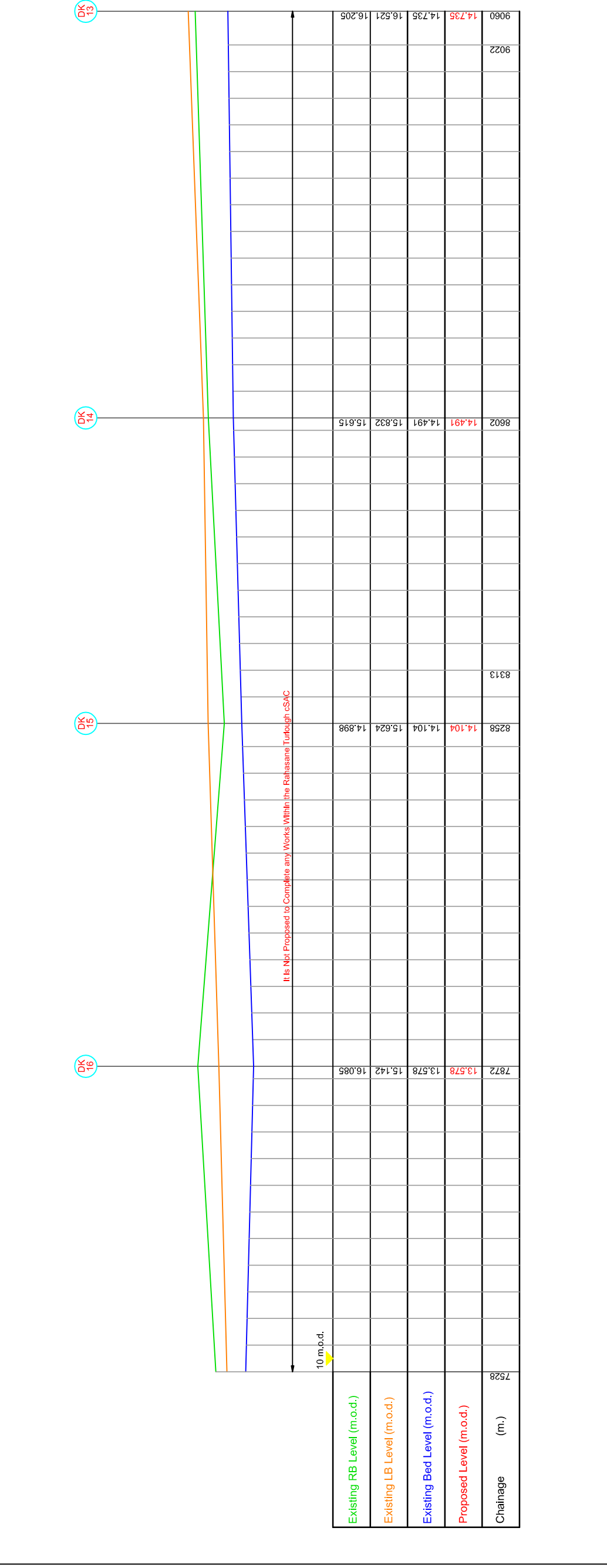
Surveyed Cross Section location

DK 39

**NOTES:**

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
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Rev	Date	Description	By	Check
A	06/10	First Issue	S.H.	M.McD.



Client: Office of Public Works

Project: Study to Identify practical measures to address flooding on the Dunkellin River and the Aggard Stream

Title: Layout Plan & Longitudinal Section of Existing channel and Proposed works Sheet 6 of 8

Scale @ A3: H - 1:5000 V - 1:200

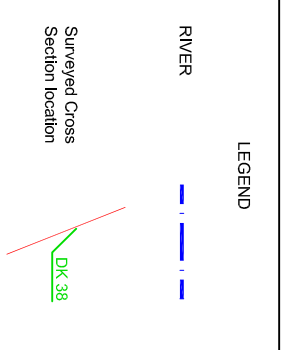
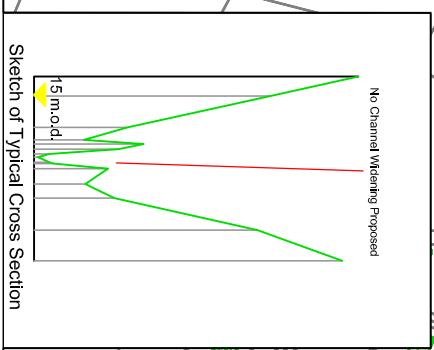
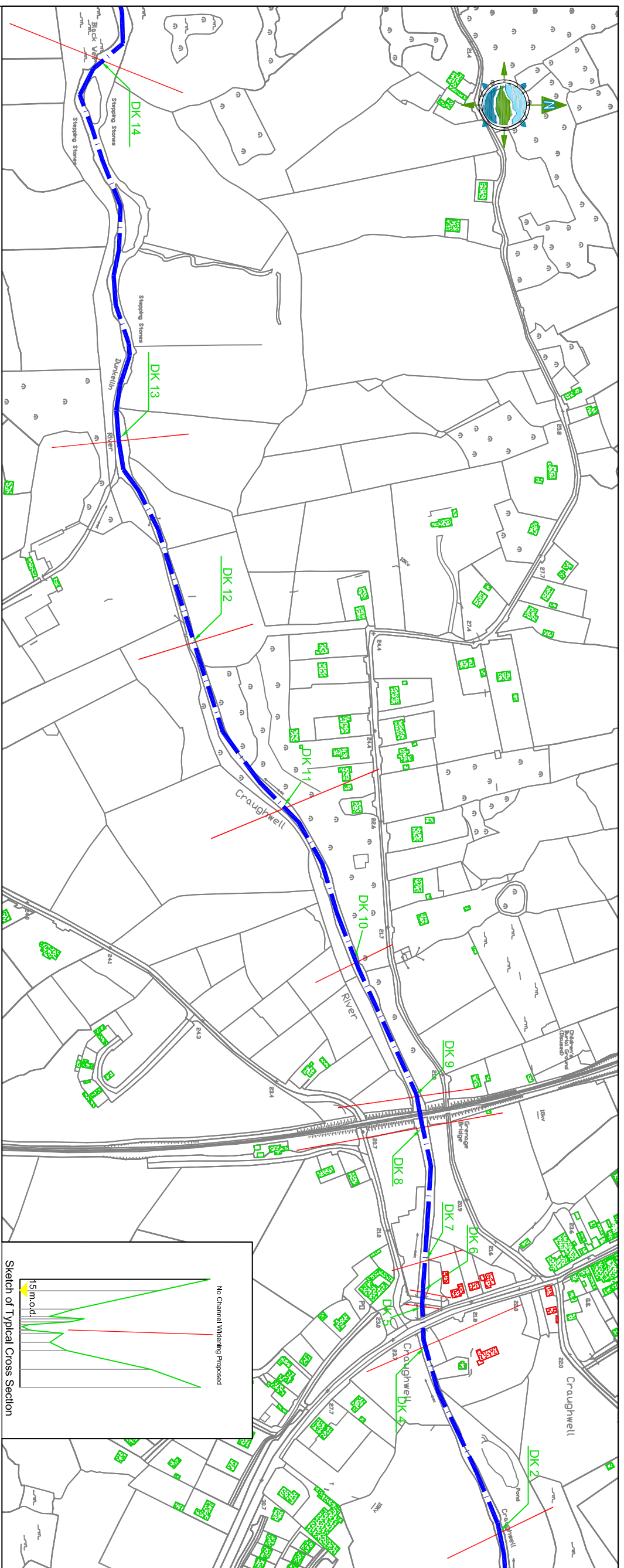
Prepared by: S.H. Checked: M.McD. Date: June 2010

Project Director: Michael Garrick

Drawing Status:

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Drawing No: 5968-1007  
Revision: A



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Rev	Date	Description	By	CHKD
B	28-5-10	Channel Works Checked	M.MCD	M.MCD
A	08-10	First Issue	S.H.	M.MCD

Client: **Office of Public Works**

Project: **Study to identify practical measures to address flooding on the Dunkellin River and the Aggard Stream**

Title: **Layout Plan & Longitudinal Section of Existing channel and Proposed works**  
Sheet 7 of 8

Scale @ A3: **H - 1:5000 V - 1:200**

Prepared by: **S.H.** Date: **June 2010**

Checked by: **M.MCD.**

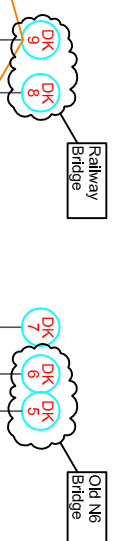
Project Director: **Michael Garrick**

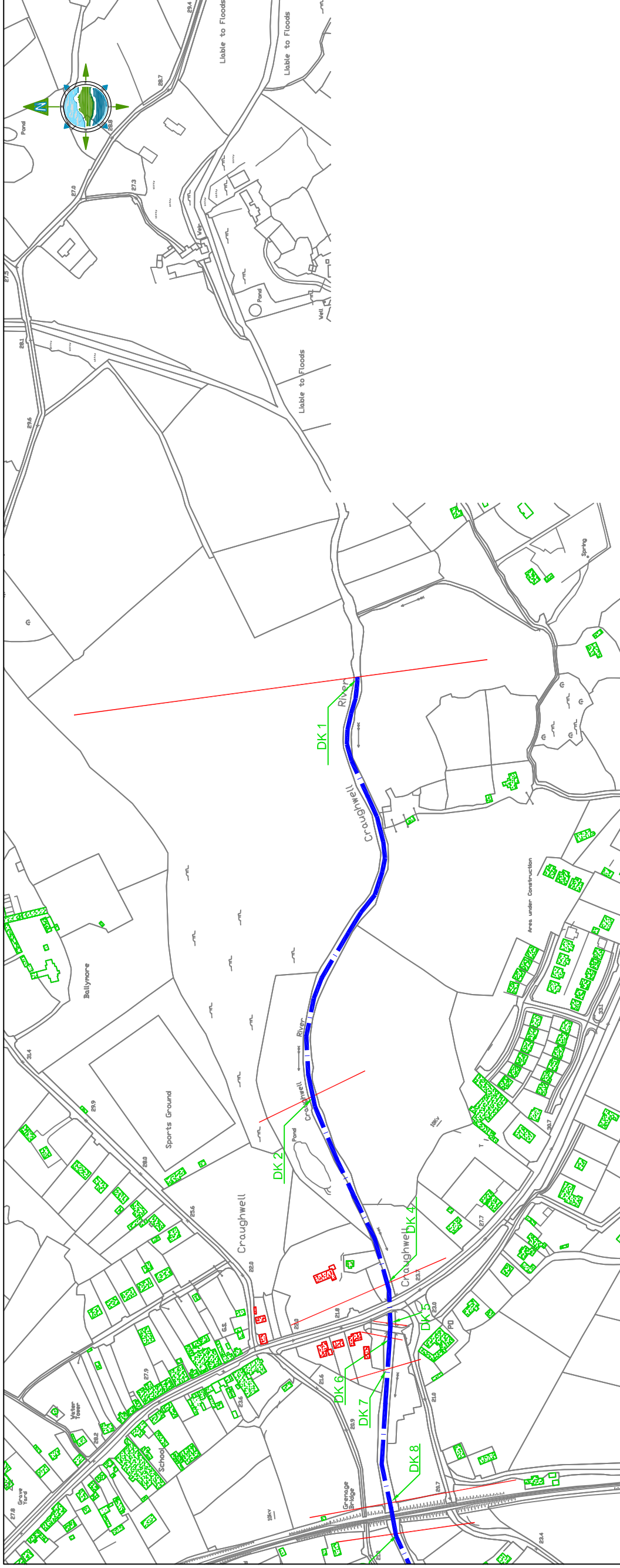
Drawing Status:

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TOBIN Consulting Engineers,  
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Galilee, Ireland,  
Tel: +353 (0)91-566211  
Fax: +353 (0)91-566398  
e-mail: gahwan@tobin.ie  
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Chainage (m.)	9022	9060	9299	9508	9703	9867	9902	10022	10057	10088	10099	10241	10357	10467
Existing RB Level (m.o.d.)	16.205		16.951	19.711	19.285	19.682	19.447		20.401	20.250	20.298	19.401	20.063	20.710
Existing LB Level (m.o.d.)	16.521		17.895	20.048	19.256	22.101	21.293		20.701	20.427	20.436	18.454	20.341	20.446
Existing Bed Level (m.o.d.)	14.735		15.100	15.131	18.118	18.332	18.332		18.758	18.701	18.701	18.454	19.096	18.453
Proposed Level (m.o.d.)	14.735	14.735	15.100	15.131	16.820	17.300	17.300		17.700	17.700	17.700	18.454	19.096	18.453
Channelage (m.)	9022	9060	9299	9508	9703	9867	9902	10022	10057	10088	10099	10241	10357	10467

Channel Deepening to commence just downstream of the Main N6 Bridge





**LEGEND**

RIVER

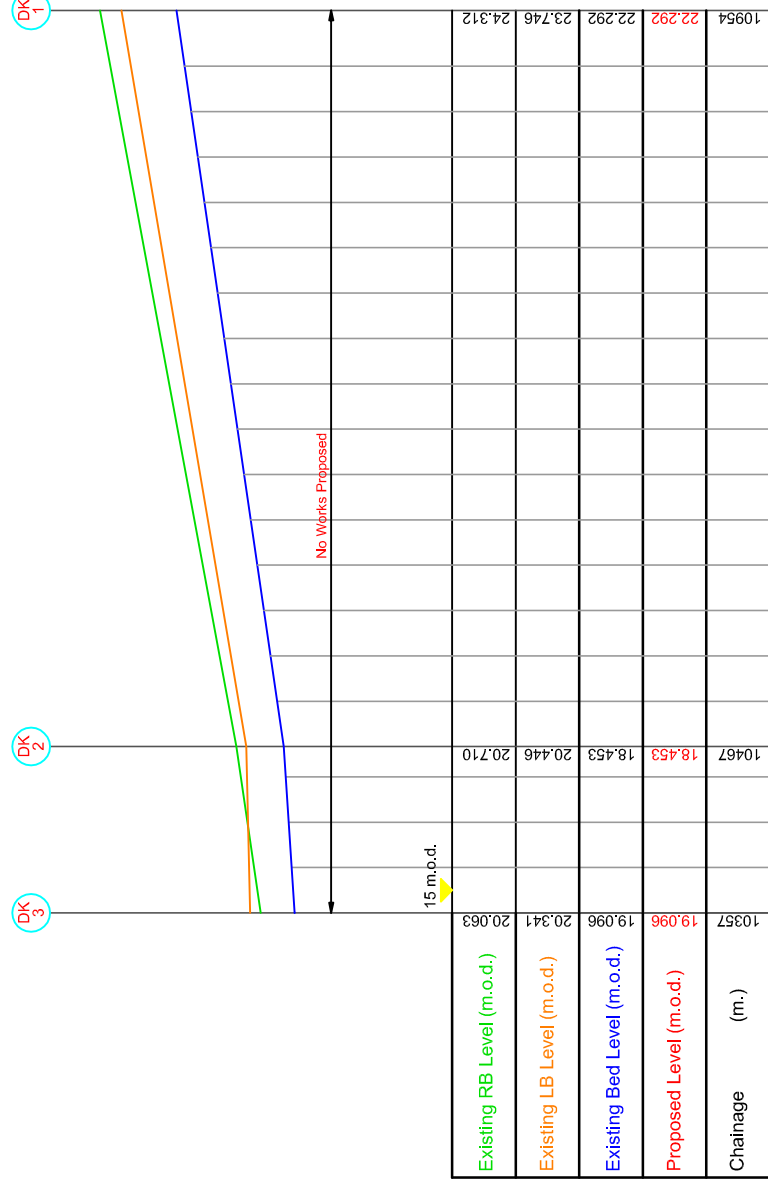
Surveyed Cross Section location

DK 39

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Rev	Date	Description	By	Check
A	06/10	First Issue	S.H.	M.McD.



Client: **Office of Public Works**

Project: **Study to identify practical measures to address flooding on the Dunkellin River and the Aggard Stream**

Title: **Layout Plan & Longitudinal Section of Existing channel and Proposed works Sheet 8 of 8**

Scale @ A3: **H - 1:5000 V - 1:200**

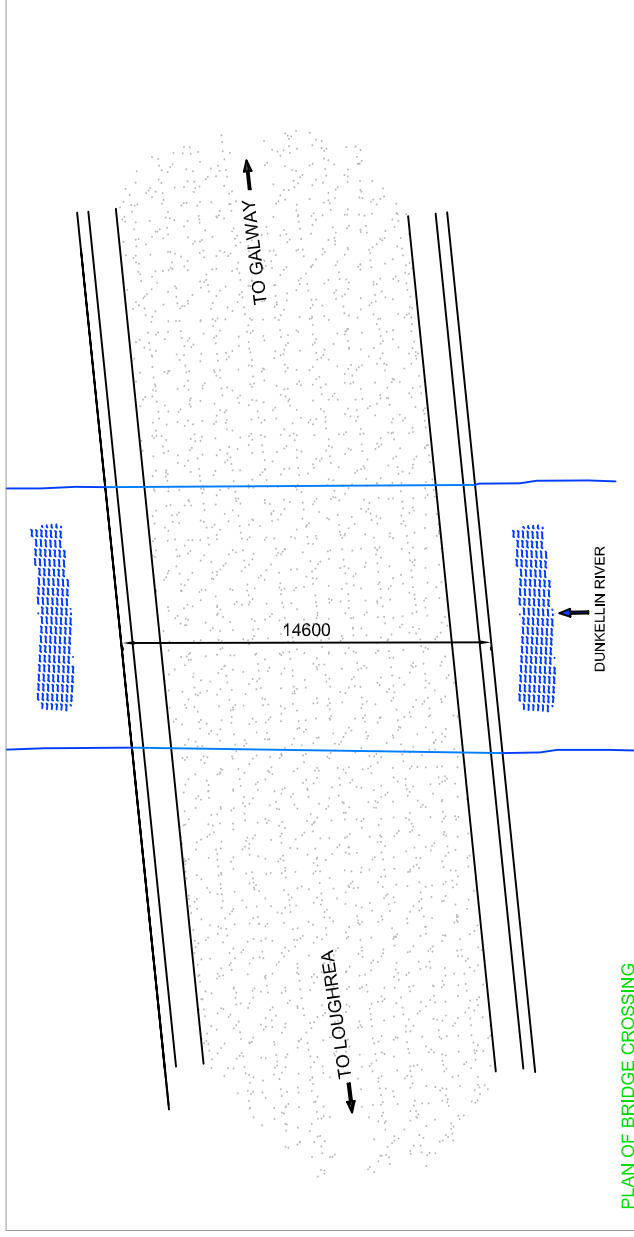
Prepared by: **S.H.** Checked by: **M.McD.** Date: **June 2010**

Project Director: **Michael Garrick**

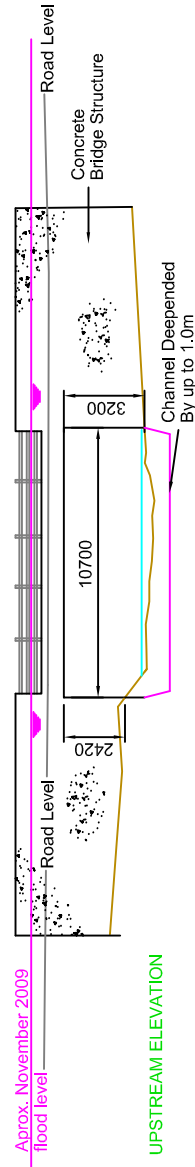
Drawing Status:

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Patrick J. Tobin & Co. Ltd.  
TOBIN Consulting Engineers,  
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fax: +353-091-565398  
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Drawing No: **5968-1009** Revision: **A**

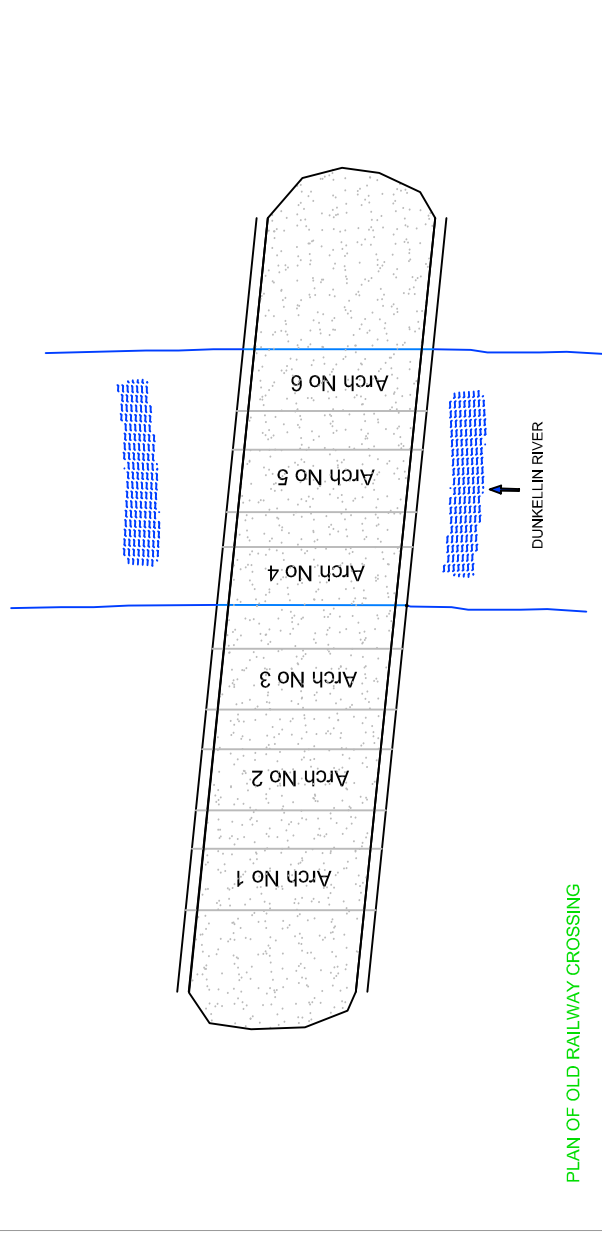


PLAN OF BRIDGE CROSSING

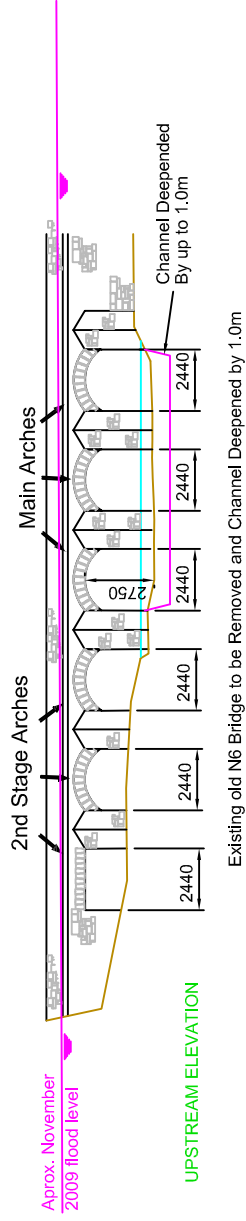


UPSTREAM ELEVATION

Sketch of the existing Main N6 Bridge Crossing



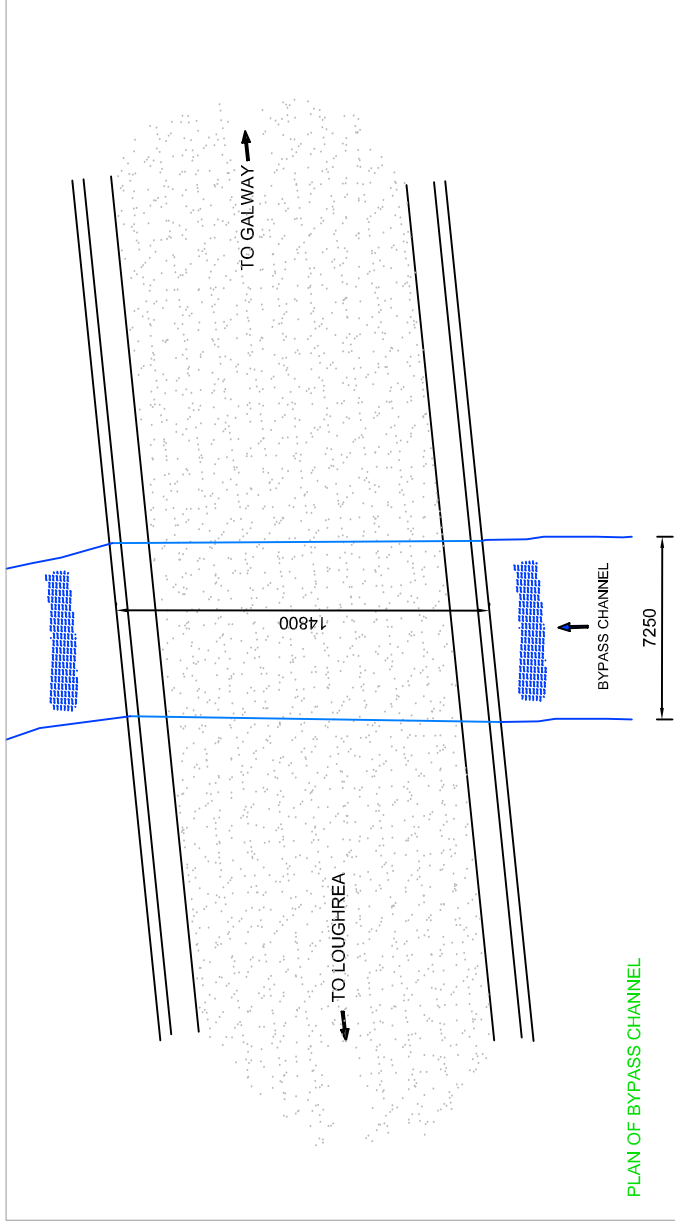
PLAN OF OLD RAILWAY CROSSING



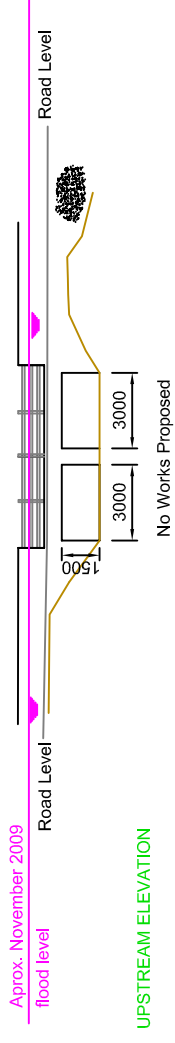
UPSTREAM ELEVATION

Existing old N6 Bridge to be Removed and Channel Deepened by 1.0m

Sketch of the existing old N6 Bridge Crossing

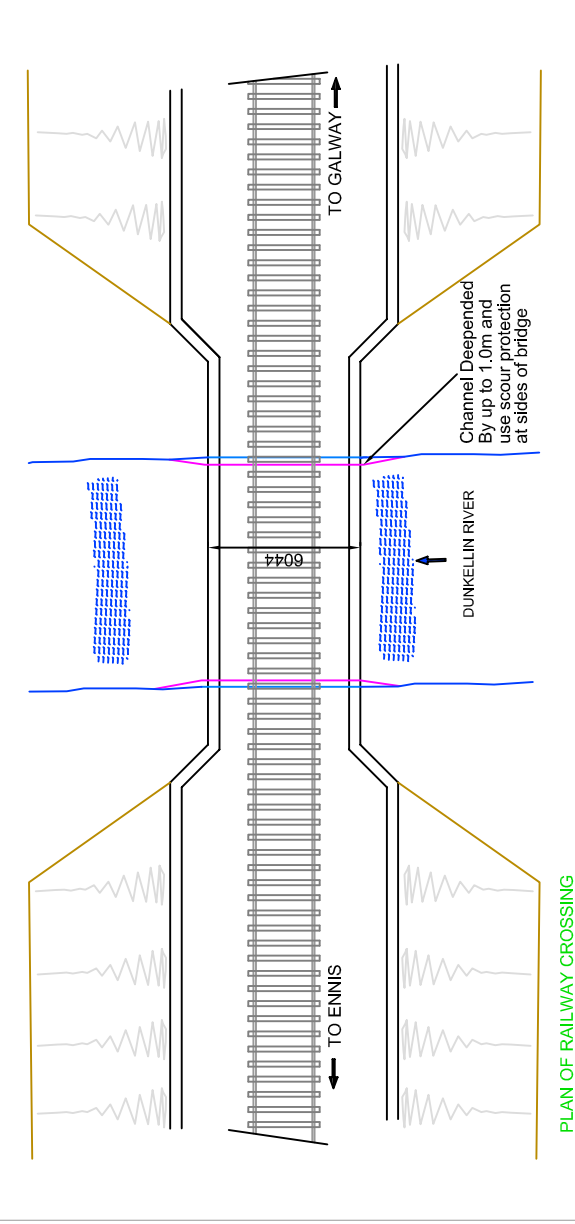


PLAN OF BYPASS CHANNEL

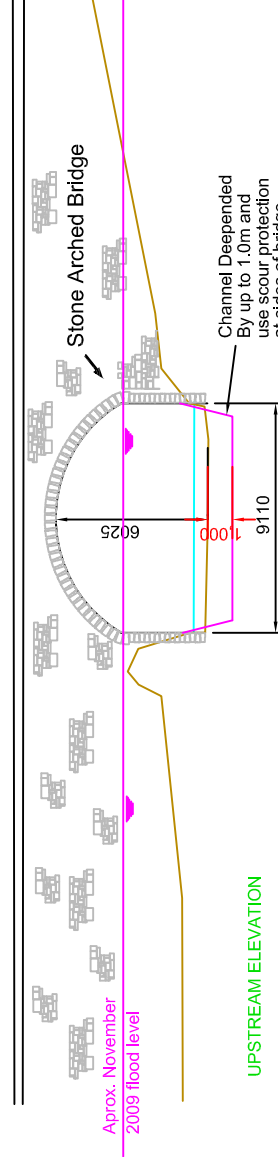


UPSTREAM ELEVATION

Sketch of the existing Bypass Channel Bridge Crossing



PLAN OF RAILWAY CROSSING



UPSTREAM ELEVATION

Sketch of the existing Railway Bridge

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Rev	Date	Description	By	Check
A	06/10	First Issue	S.H.	M.McD.

Client: Office of Public Works

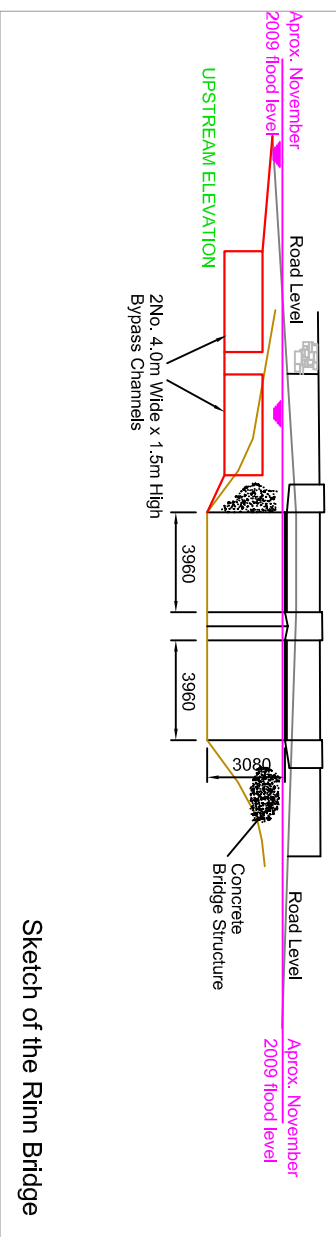
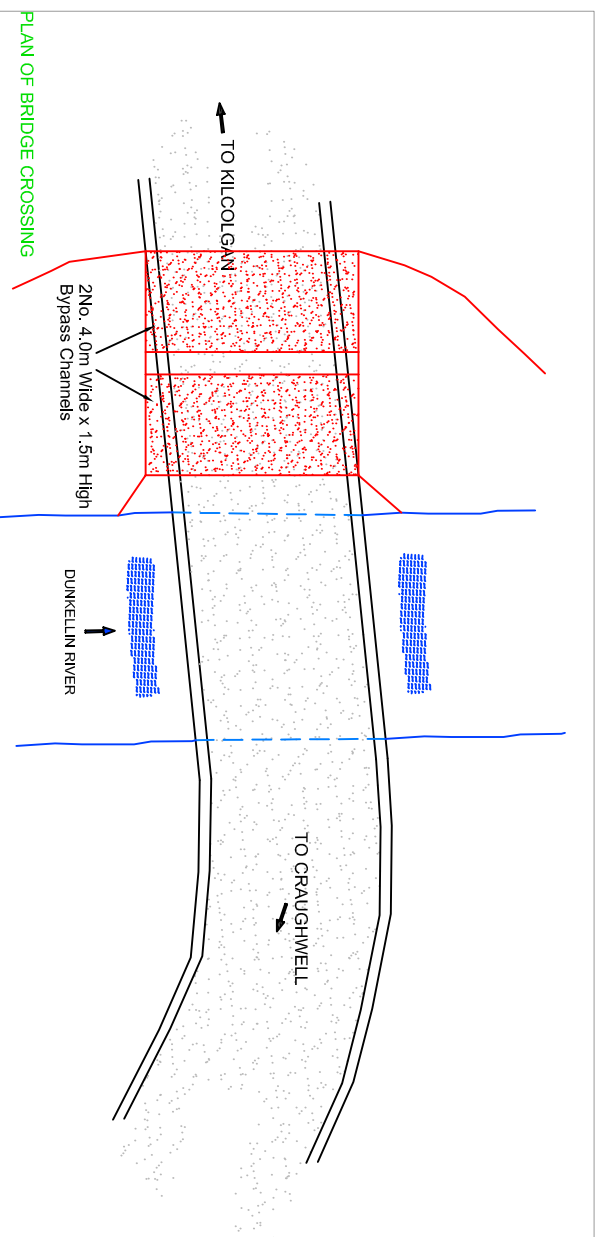
Project: Study to identify practical measures to address flooding on the Dunkellin River and the Aggard Stream

Title: Sketches of Bridges on the Dunkellin River

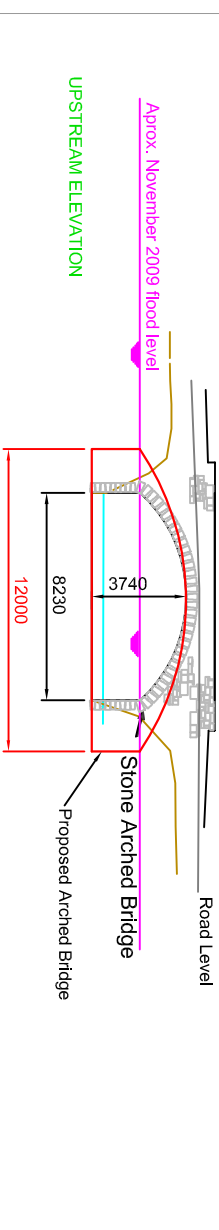
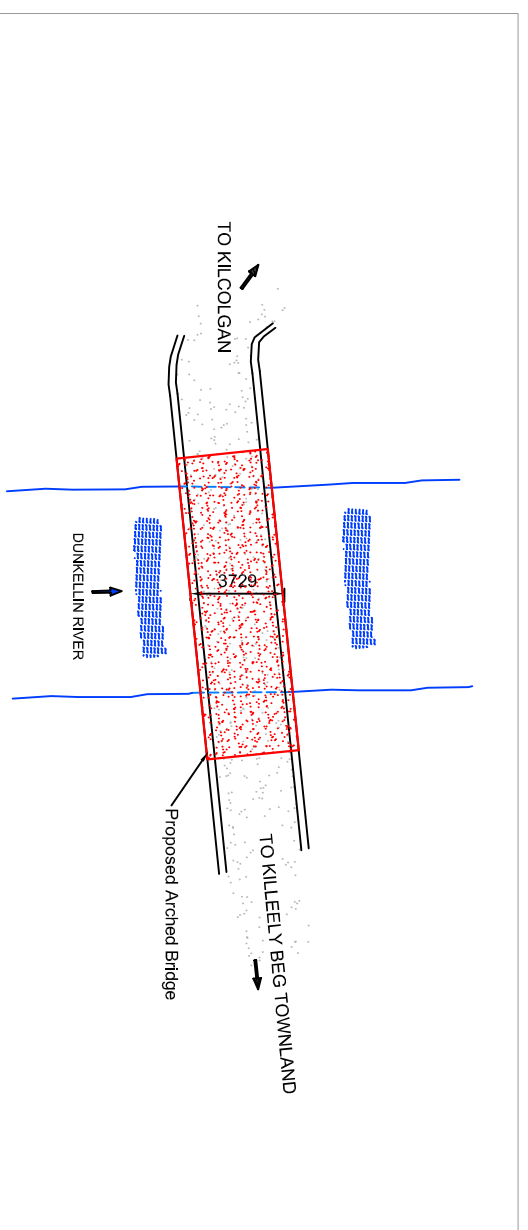
Scale @ A3: nts  
 Prepared by: S.H.  
 Checked: M.McD.  
 Date: June 2010  
 Project Director: Michael Garrick  
 Drawing Status:

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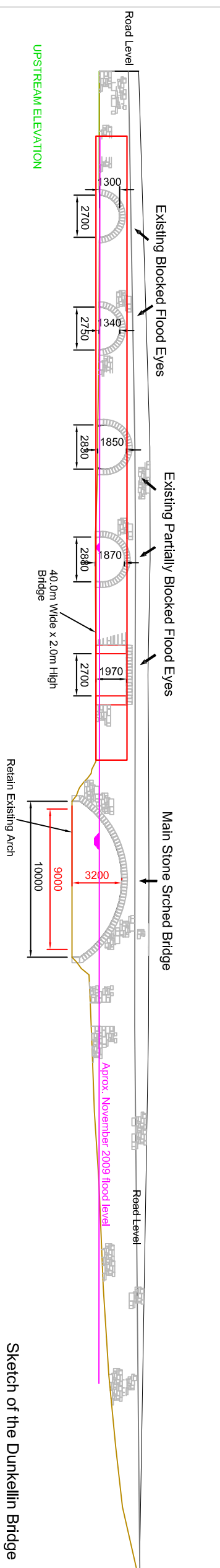
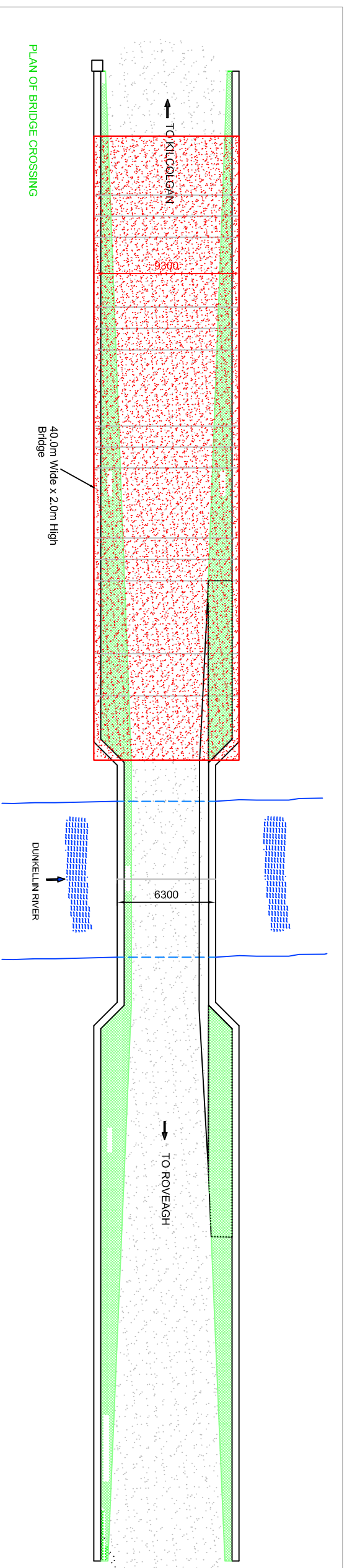
Drawing No.: 5968-1010  
 Reviser: A



Sketch of the Rinn Bridge



Sketch of the Killeely Beg Bridge



Sketch of the Dunkellin Bridge

NOTES:

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
3. ENGINEERS/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
4. THE CONTRACTOR SHALL UNDERTAKE A THOROUGH CHECK FOR THE ACTUAL LOCATION OF ALL SERVICES/UTILITIES ABOVE AND BELOW GROUND, BEFORE ANY WORK COMMENCES.
5. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MAIN HEAD.

Rev	Date	Description	By	CHKD
B	28-6-10	Client Comments	M.MCD	M.MCD
A	08/10	First Issue	S.H.	M.MCD

Client:  
**Office of Public Works**

Project:  
Study to identify practical measures to address flooding on the Dunkellin River and the Aggard Stream

Title:  
Sketches of Bridges on the Dunkellin River

Scale @ A3: nts  
Prepared by: S.H.  
Checked: M.MCD.  
Date: June 2010  
Project Director: Michael Garrick  
Drawing Status:

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Drawing No.: **5968-1011**  
Revision: **B**