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rev.	modifications		by da

client

OFFICE OF PUBLIC WORKS

project

SOUTH GALWAY FLOOD STUDY

stage

PRELIMINARY

title

TERMON, KILCHREEST & MANNIN
CROSS ALLEVIATION SCHEMES
LOCATION MAP

scales

1 / 60,000

drawn

checked

approved

date

PM

TMcG

CMcC

Oct 2010

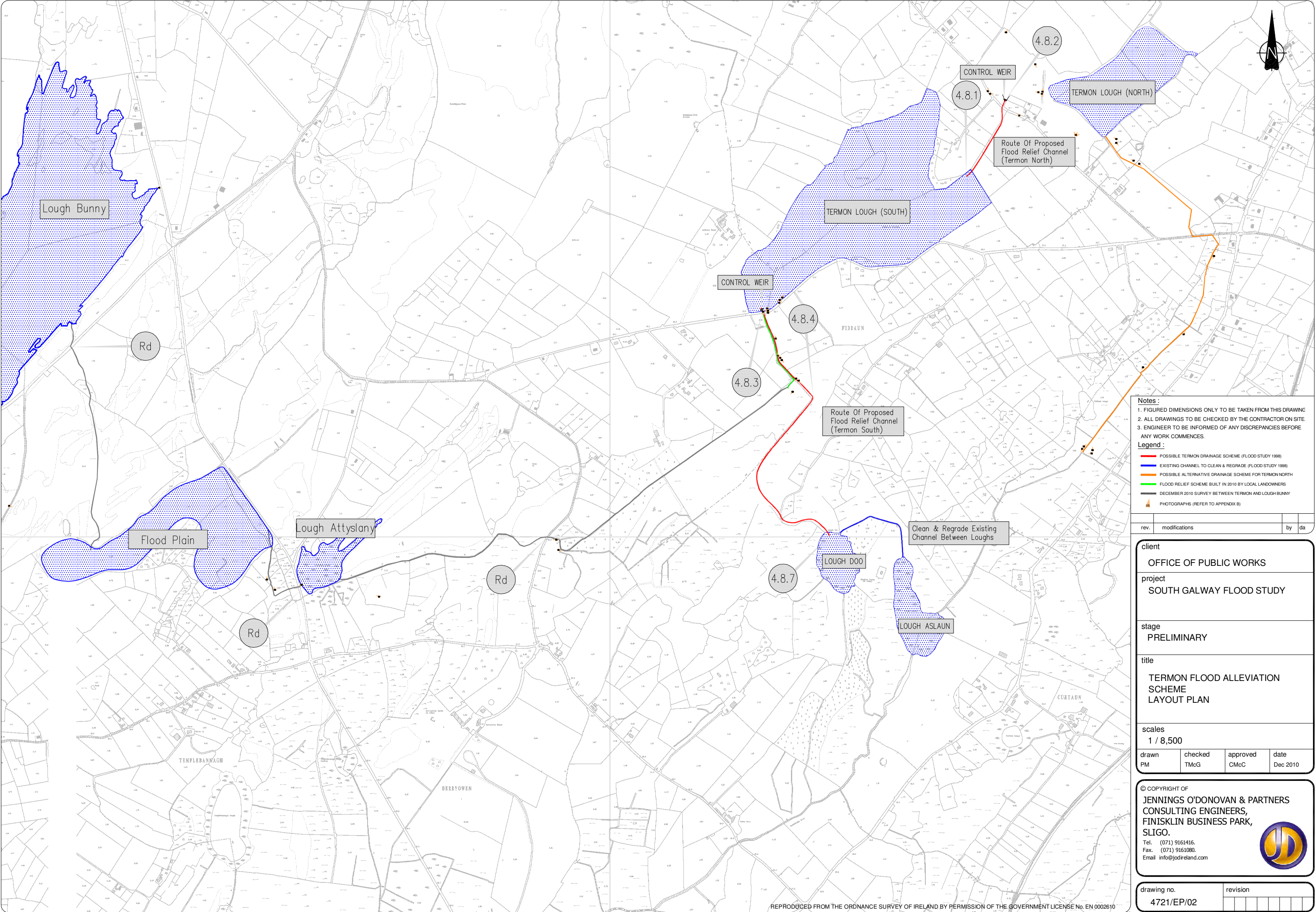
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drawing no.

revision

4721/EP/01



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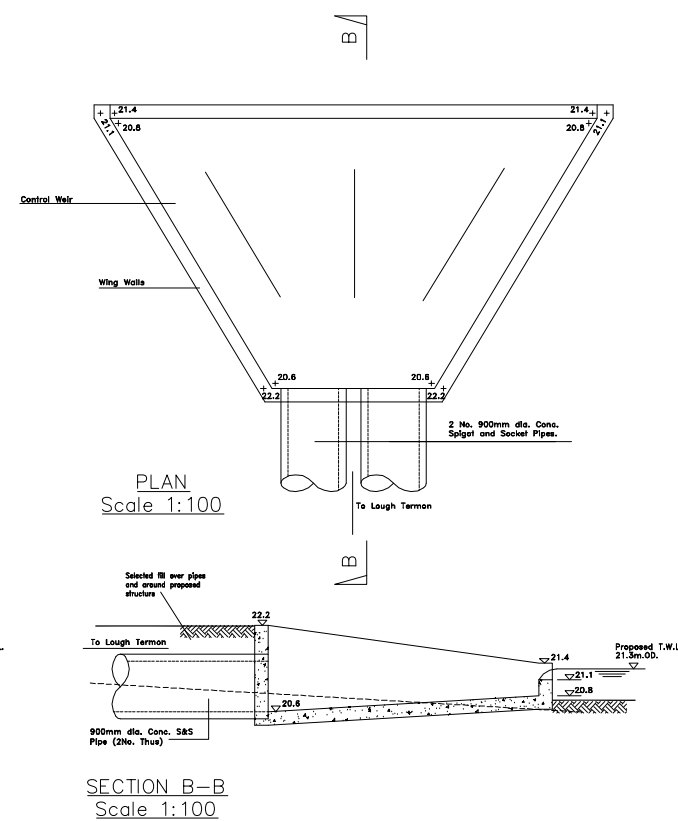
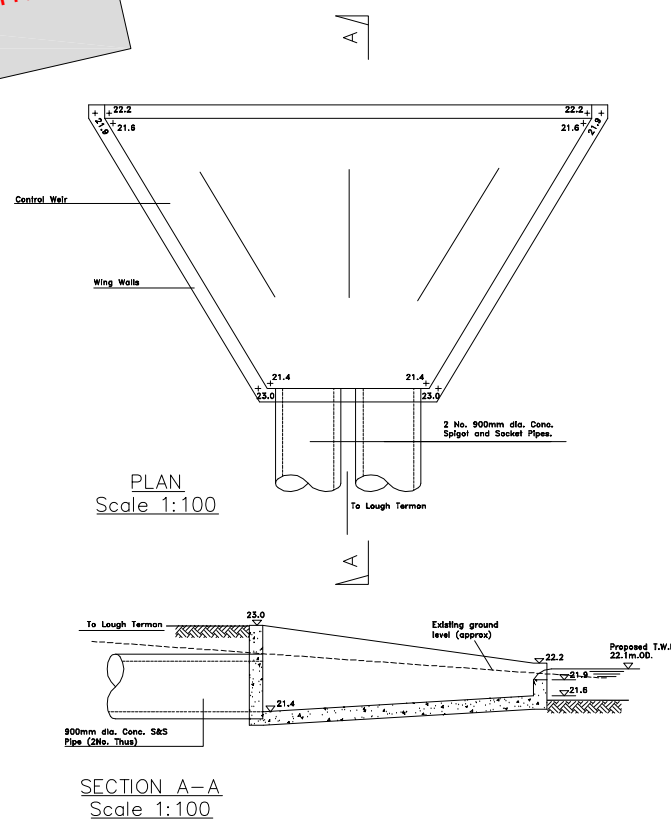
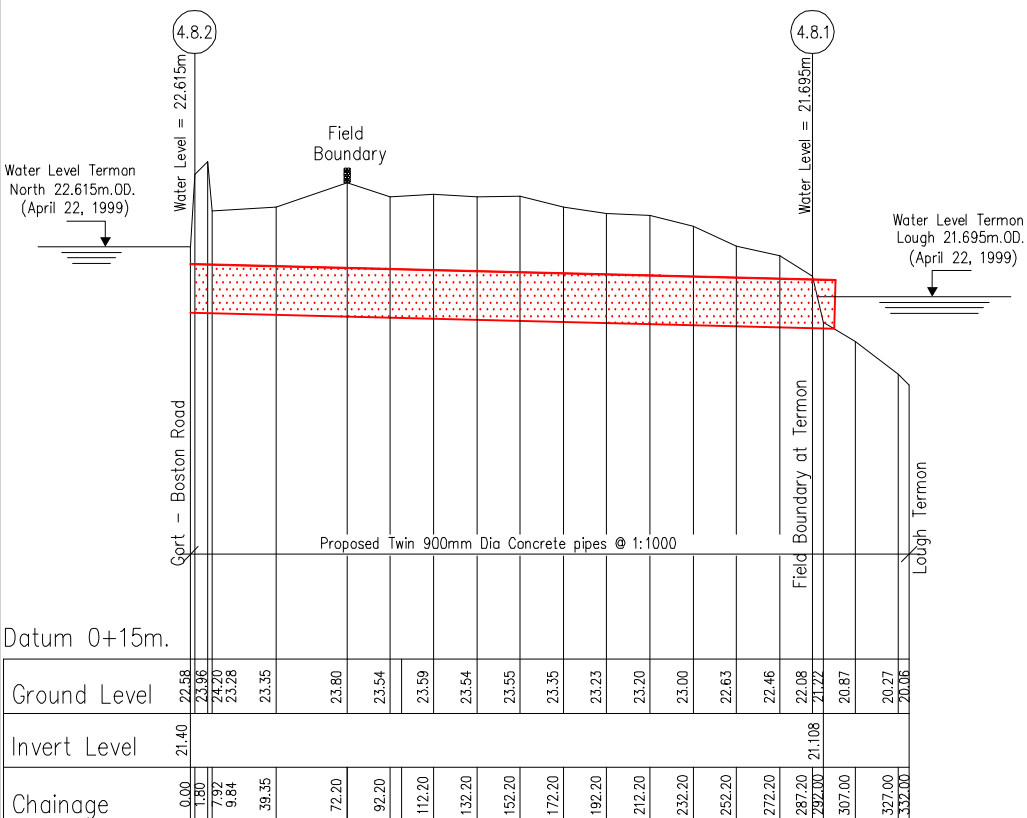
Legend :
 — POSSIBLE TERMON DRAINAGE SCHEME (FLOOD STUDY 1998)
 — EXISTING CHANNEL TO CLEAN & REGRADE (FLOOD STUDY 1998)
 — POSSIBLE ALTERNATIVE DRAINAGE SCHEME FOR TERMON NORTH
 — FLOOD RELIEF SCHEME BUILT IN 2010 BY LOCAL LANDOWNERS
 — DECEMBER 2010 SURVEY BETWEEN TERMON AND LOUGH BUNNY
 — PHOTOGRAPHS (REFER TO APPENDIX B)

rev.	modifications	by	da

client OFFICE OF PUBLIC WORKS			
project SOUTH GALWAY FLOOD STUDY			
stage PRELIMINARY			
title TERMON FLOOD ALLEVIATION SCHEME LAYOUT PLAN			
scales 1 / 8,500			
drawn PM	checked TMcG	approved CMcC	date Dec 2010
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4721/EP/02	

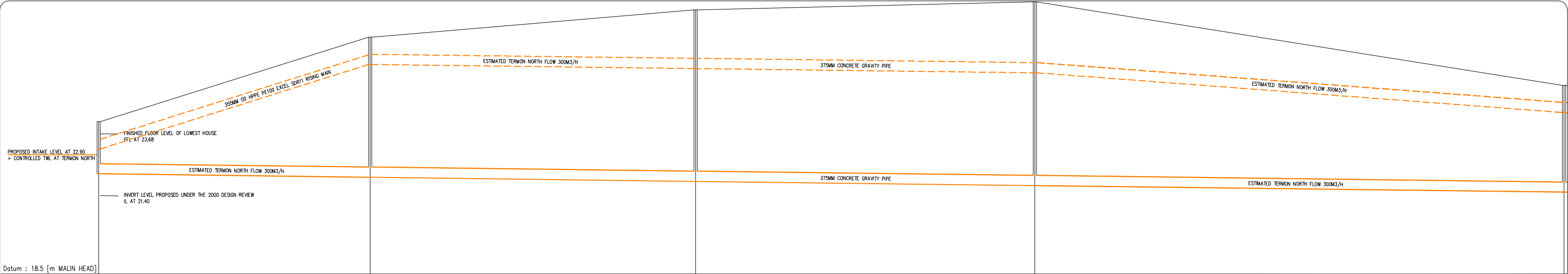


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| | | | |
| rev. | modifications | by | da |

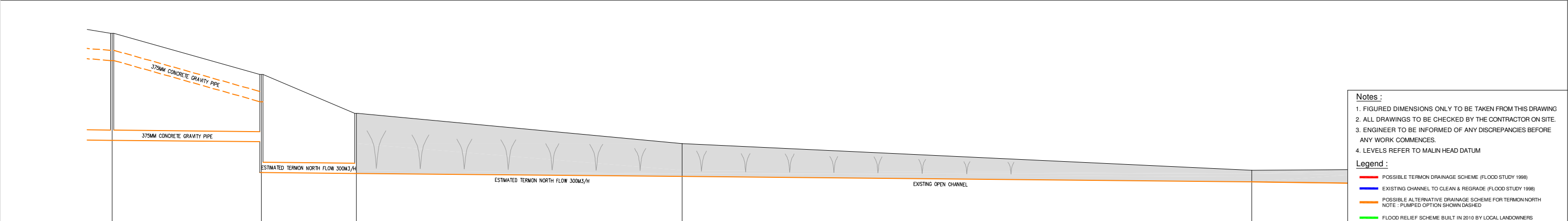
project
SOUTH GALWAY FLOOD STUDY

scales			
H : 1 / 2,500 V : 1 / 100			
drawn PM	checked TMcG	approved CMcC	date Dec 2010

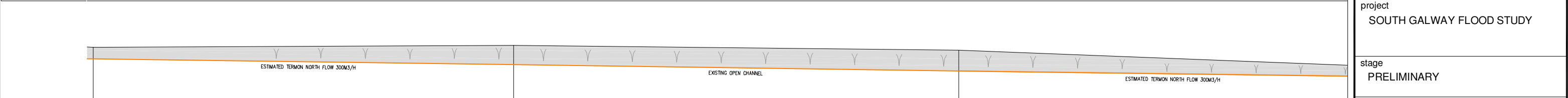
drawing no.	revision
4721/EP/03	



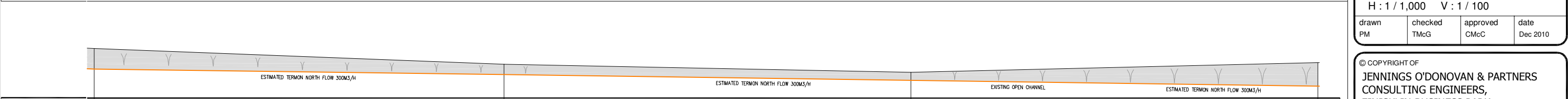
Node	TERMON SOUTH						RD CROSSING
Chainage [m]	0	100	120	125	195	540	
Ground Level [m MALIN HEAD]	24.122	27.231	28.237	28.542	25.464	21.53	
Invert Level [m MALIN HEAD] & width of channel or dia. [mm] Gravity Option	21.53 21.53	375 21.53	375 21.53	375 21.77	375 21.77	375 21.53	
Gradient - Gravity Option		1/802	1/802	1/801	1/802	1/802	
Nature of section - Gravity Option	Overflow Structure	Piped	MH	Piped	MH	Piped	



Node	RD CROSSING							
Chainage [m]	540	55	595	35	630	120	210	960
Ground Level [m MALIN HEAD]	25.464	23.952	22.522	21.413	20.434	20.434	20.434	20.434
Invert Level [m MALIN HEAD] & width of channel or dia. [mm] Gravity Option	21.53	375	21.43	375	20.31	1200	1200	20.00
Gradient - Gravity Option		1/1068	1/1073	1/1067	1/1068	1/1068	1/1068	1/1068
Nature of section - Gravity Option	MH	Piped	MH	Piped	MH	Open Channel	Open Channel	Open Channel



Node								
Chainage [m]	180	155	115	164	229	151	151	151
Ground Level [m MALIN HEAD]	20.434	20.504	20.504	20.325	20.325	20.325	20.325	20.325
Invert Level [m MALIN HEAD] & width of channel or dia. [mm] Gravity Option	20.00	1200	12.79	1200	12.56	1200	1200	1200
Gradient - Gravity Option		1/721	1/722	1/722	1/722	1/722	1/722	1/722
Nature of section - Gravity Option		Open Channel	Open Channel	Open Channel	Open Channel	Open Channel	Open Channel	Open Channel



Node									LURGA RIVER
Chainage [m]	1279	151	140	150	150	150	150	1720	1720
Ground Level [m MALIN HEAD]	20.325	19.745	19.745	19.450	19.450	19.450	19.450	19.794	19.794
Invert Level [m MALIN HEAD] & width of channel or dia. [mm] Gravity Option	19.56	1200	19.35	1200	19.14	1200	1200	18.94	18.94
Gradient - Gravity Option		1/722	1/722	1/722	1/722	1/722	1/722	1/722	1/722
Nature of section - Gravity Option		Open Channel	Open Channel	Open Channel	Open Channel	Open Channel	Open Channel	Open Channel	Open Channel

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 - LEVELS REFER TO MALIN HEAD DATUM
- Legend :
- POSSIBLE TERMON DRAINAGE SCHEME (FLOOD STUDY 1998)
 - EXISTING CHANNEL TO CLEAN & REGRADE (FLOOD STUDY 1998)
 - POSSIBLE ALTERNATIVE DRAINAGE SCHEME FOR TERMON NORTH NOTE : PUMPED OPTION SHOWN DASHED
 - FLOOD RELIEF SCHEME BUILT IN 2010 BY LOCAL LANDOWNERS

rev.	modifications	by	da
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client

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project

SOUTH GALWAY FLOOD STUDY

stage

PRELIMINARY

title

TERMON FLOOD ALLEVIATION SCHEME
LONGITUDINAL SECTION
SHEET 2 OF 2

scales

H : 1 / 1,000 V : 1 / 100

drawn

checked

approved

date

PM

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CMcC

Dec 2010

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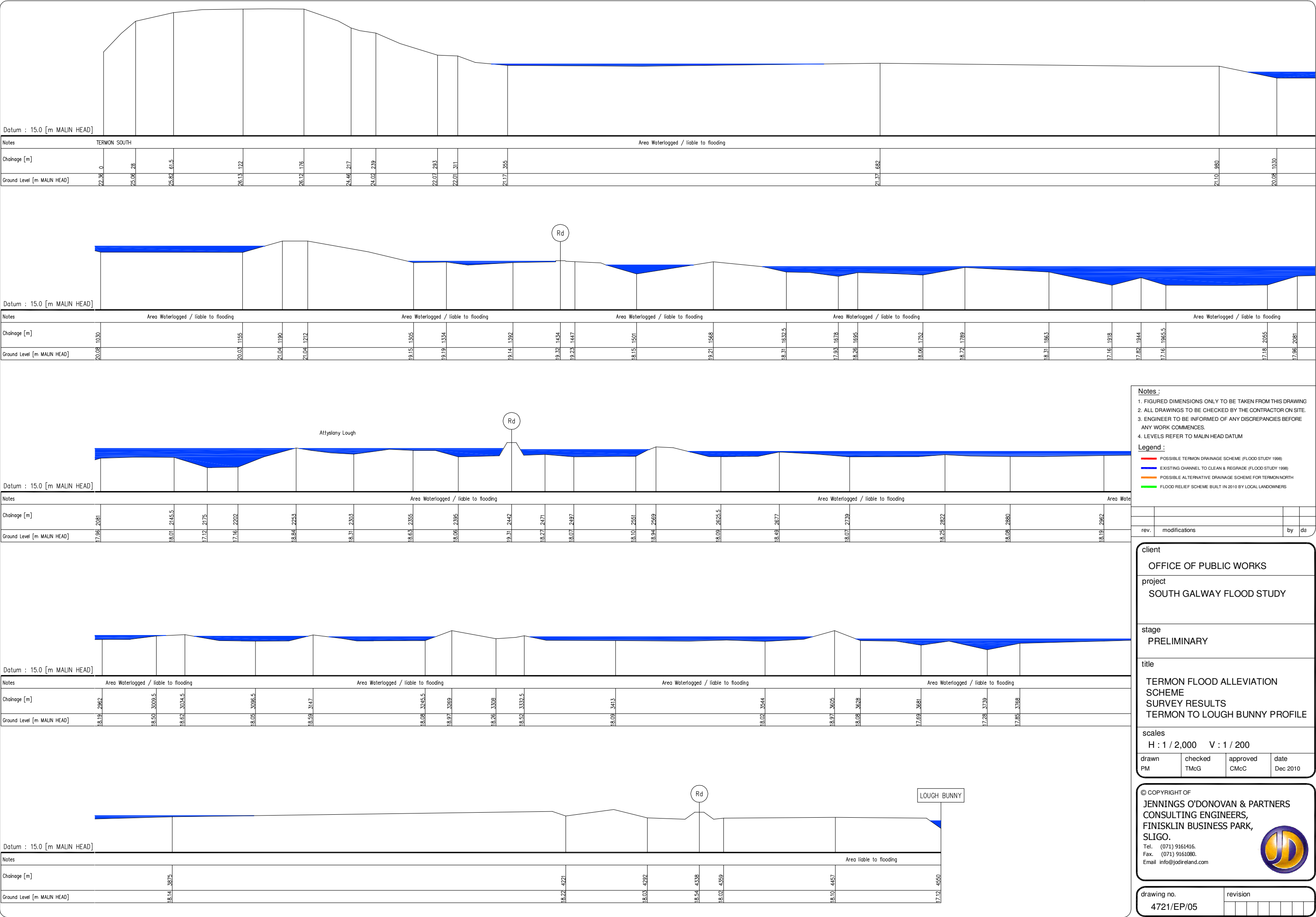
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4. LEVELS REFER TO MALIN HEAD DATUM

Legend :

POSSIBLE TERMON DRAINAGE SCHEME (FLOOD STUDY 1998)

EXISTING CHANNEL TO CLEAN & REGRADE (FLOOD STUDY 1998)

POSSIBLE ALTERNATIVE DRAINAGE SCHEME FOR TERMON NORTH

FLOOD RELIEF SCHEME BUILT IN 2010 BY LOCAL LANDOWNERS

client

OFFICE OF PUBLIC WORKS

project

SOUTH GALWAY FLOOD STUDY

stage

PRELIMINARY

title

TERMON FLOOD ALLEVIATION SCHEME SURVEY RESULTS TERMON TO LOUGH BUNNY PROFILE

scales

H : 1 / 2,000 V : 1 / 200

drawn

checked

approved

date

PM

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Dec 2010

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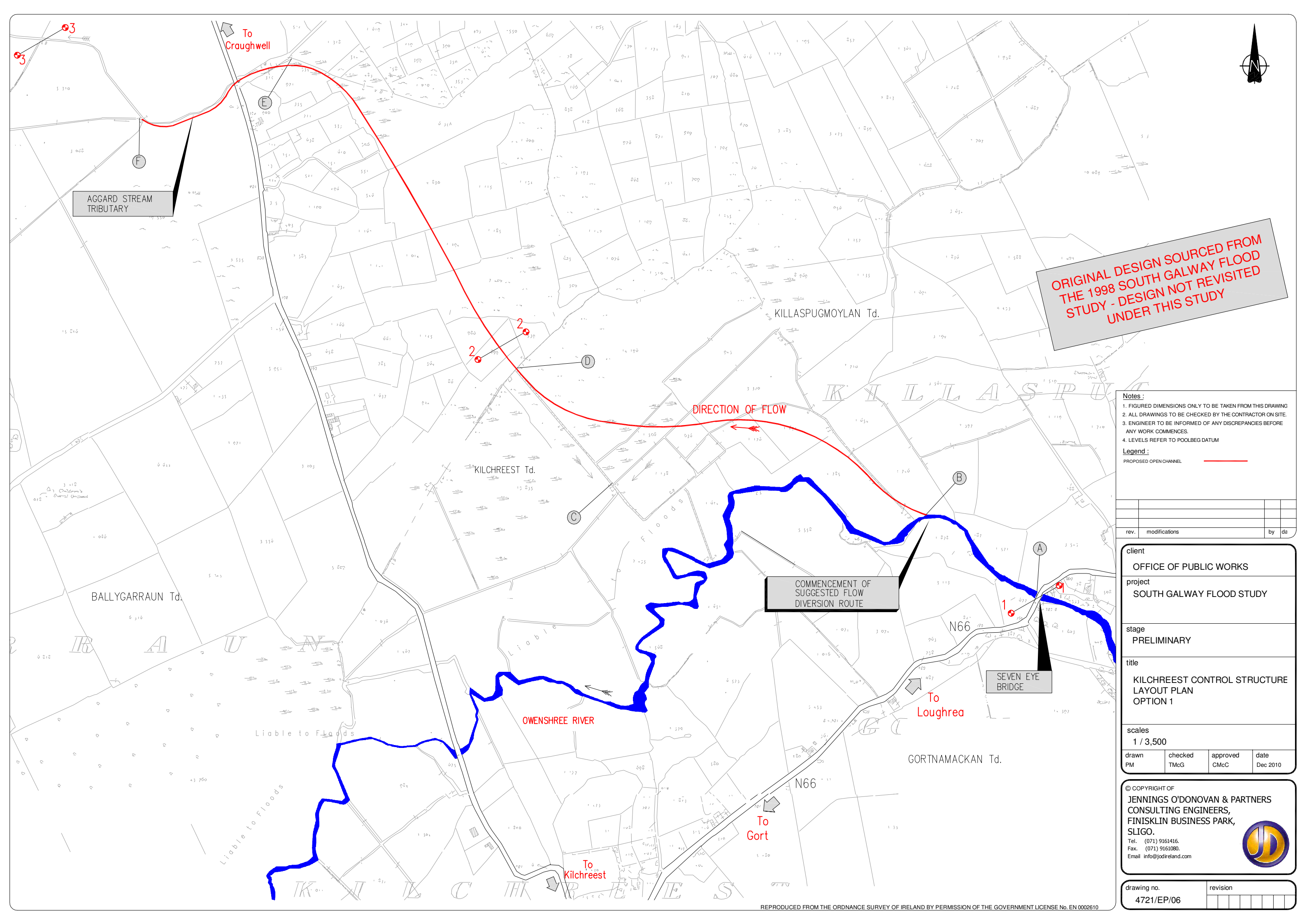
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 - 4. LEVELS REFER TO POOLBEG DATUM

Legend :

PROPOSED OPEN CHANNEL

rev.	modifications	by	da

client			
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project			
SOUTH GALWAY FLOOD STUDY			
stage			
PRELIMINARY			
title			
KILCHREEST CONTROL STRUCTURE LAYOUT PLAN OPTION 1			
scales			
1 / 3,500			
drawn	checked	approved	date
PM	TMcG	CMcC	Dec 2010
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4721/EP/06			





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UNDER THIS STUDY

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4. LEVELS REFER TO POOLBEG DATUM

Legend:

- PROPOSED OPEN CHANNEL
PROPOSED CULVERT

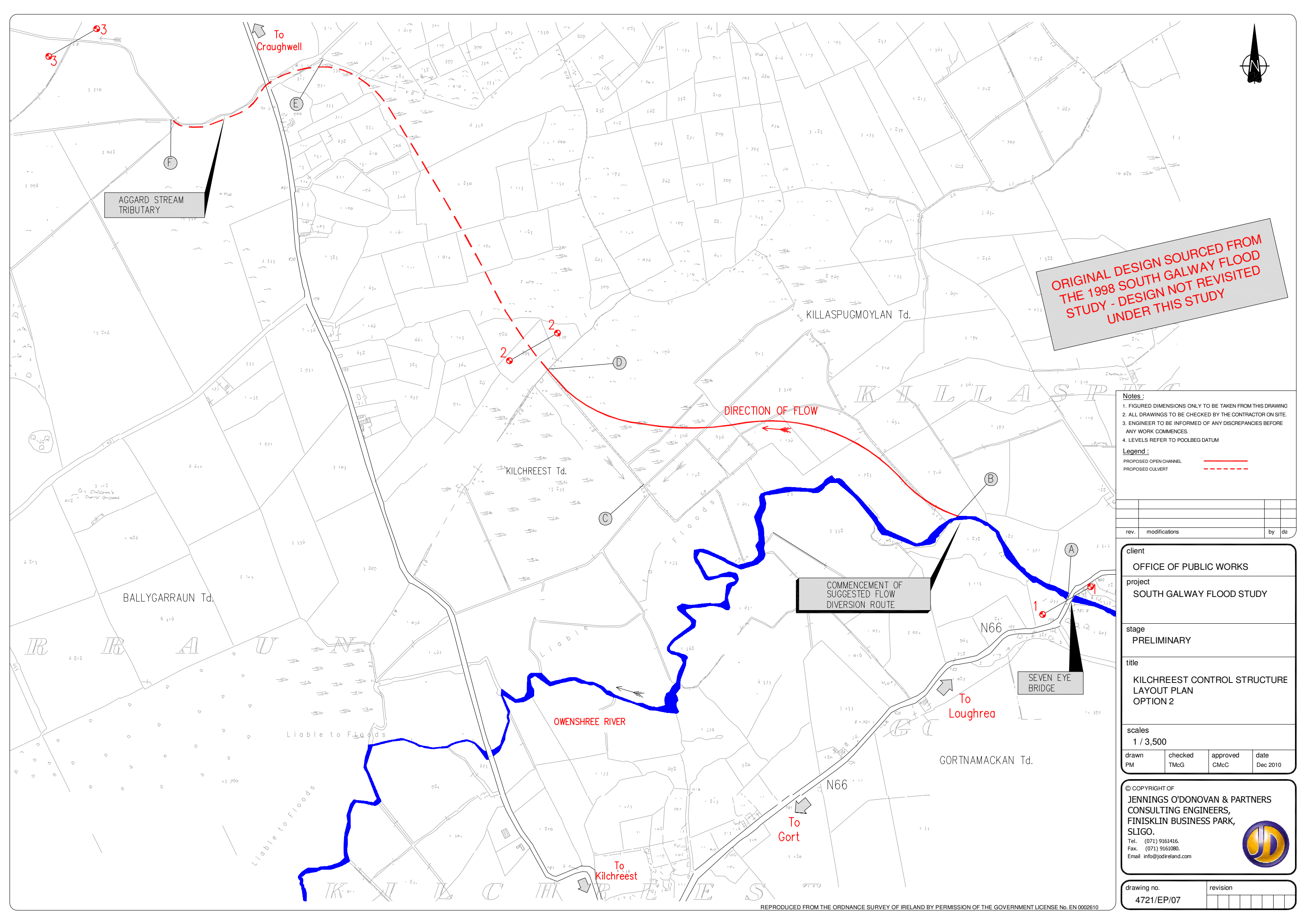


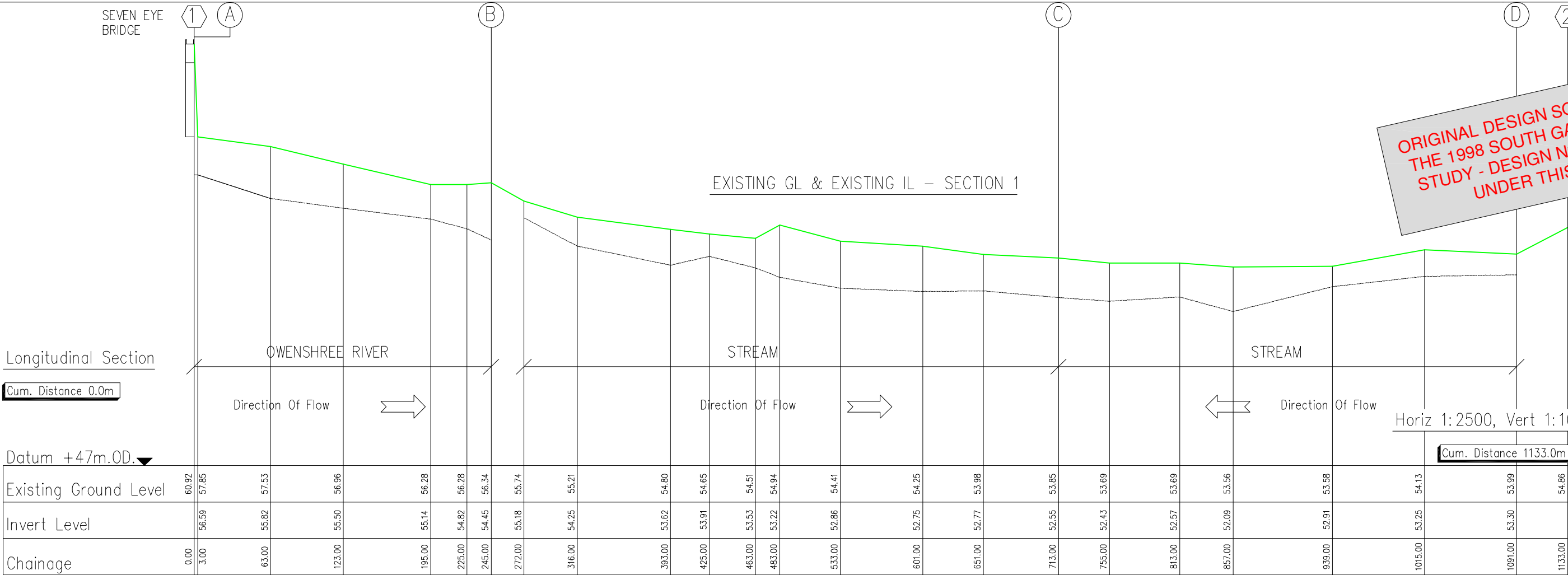
rev.	modifications	by	da

client	OFFICE OF PUBLIC WORKS		
project	SOUTH GALWAY FLOOD STUDY		
stage	PRELIMINARY		
title	KILCHREEST CONTROL STRUCTURE LAYOUT PLAN OPTION 2		
scales	1 / 3,500		
drawn PM	checked TMcG	approved CMcC	date Dec 2010
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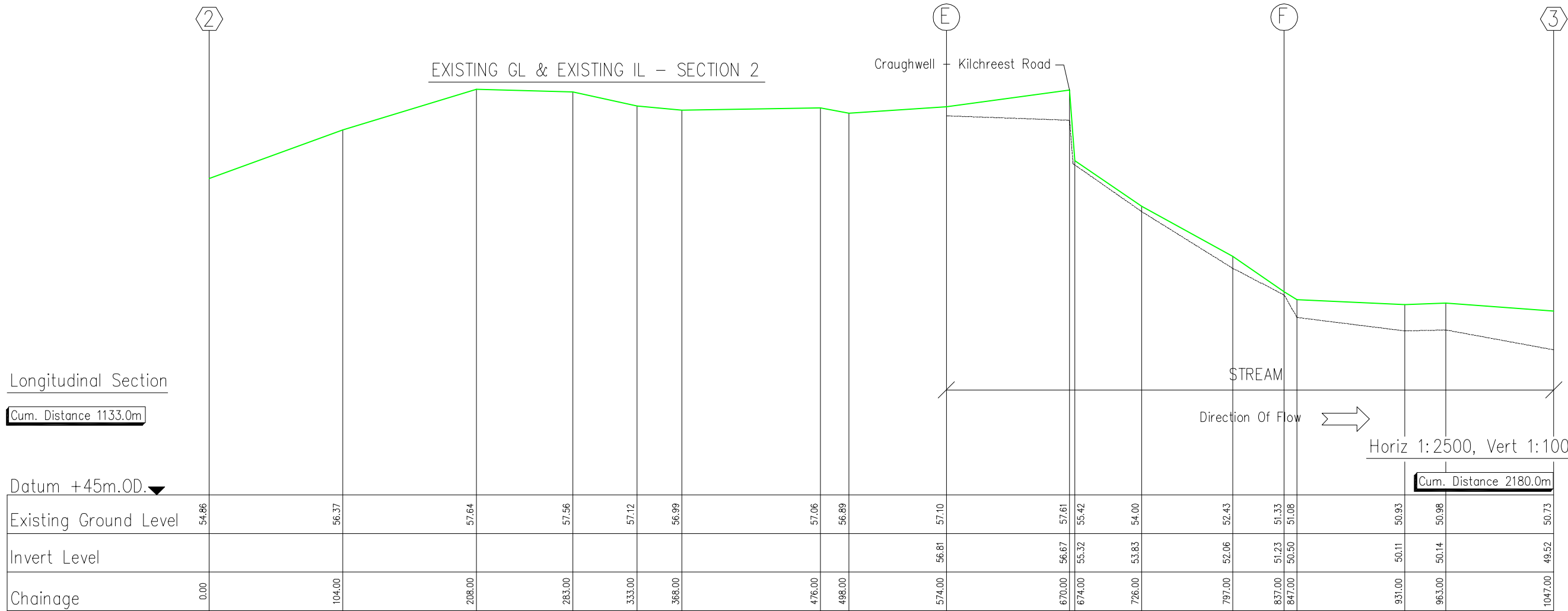


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4721/EP/07	





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 - LEVELS REFER TO POOLBEG DATUM

rev.	modifications	by	da

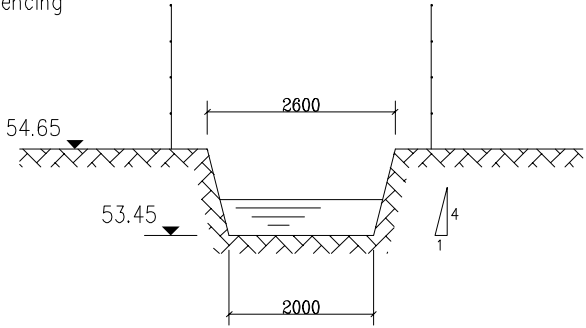
client	OFFICE OF PUBLIC WORKS		
project	SOUTH GALWAY FLOOD STUDY		
stage	PRELIMINARY		
title	KILCHREEST CONTROL STRUCTURE LONGITUDINAL SECTION TOPOGRAPHICAL SURVEY		
scales	As Shown		
drawn PM	checked TMcG	approved CMcC	date Dec 2010

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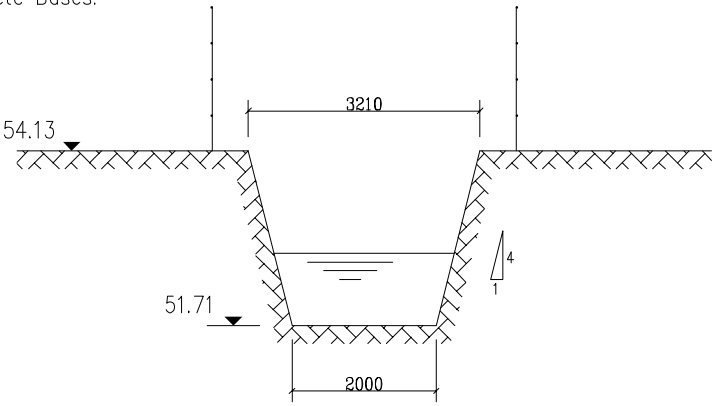
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4721/EP/08	

Proposed 2m High
Protective Fencing



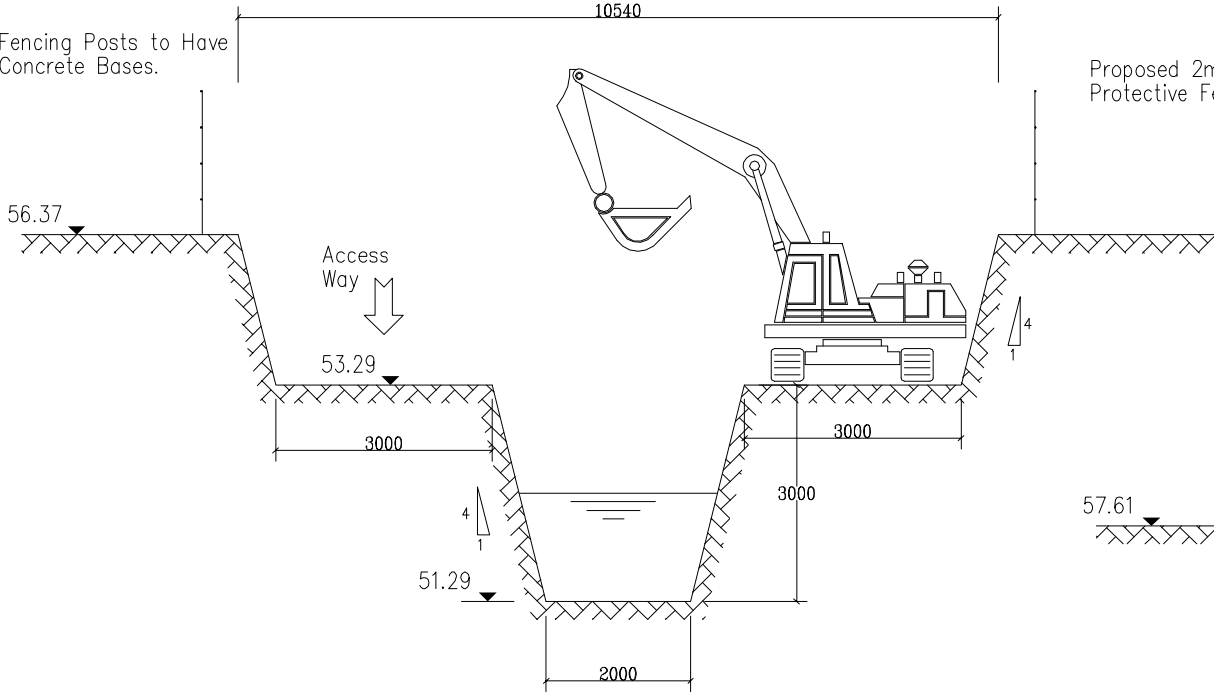
DETAIL - W

Fencing Posts to Have
Concrete Bases.



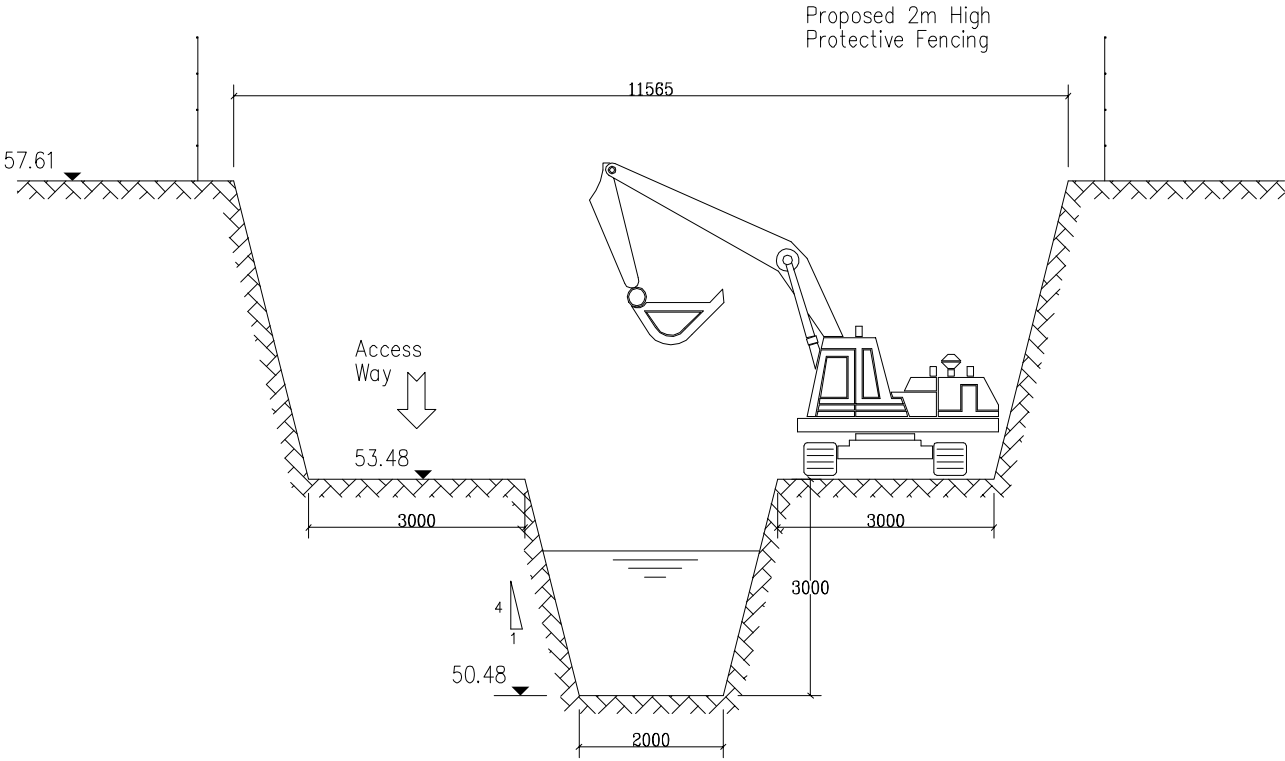
DETAIL - X

Fencing Posts to Have
Concrete Bases.



DETAIL - Y

Proposed 2m High
Protective Fencing



DETAIL - Z

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STUDY - DESIGN NOT REVISITED
UNDER THIS STUDY

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 4. LEVELS REFER TO POOLBEG DATUM

rev.	modifications	by	da

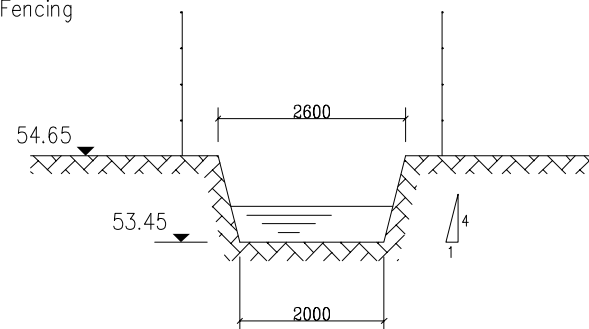
client	OFFICE OF PUBLIC WORKS		
project	SOUTH GALWAY FLOOD STUDY		
stage	PRELIMINARY		
title	KILCHREEST CONTROL STRUCTURE CROSS SECTION DETAILS OPTION 1		
scales	1 / 75		
drawn PM	checked TMcG	approved CMcC	date Dec 2010

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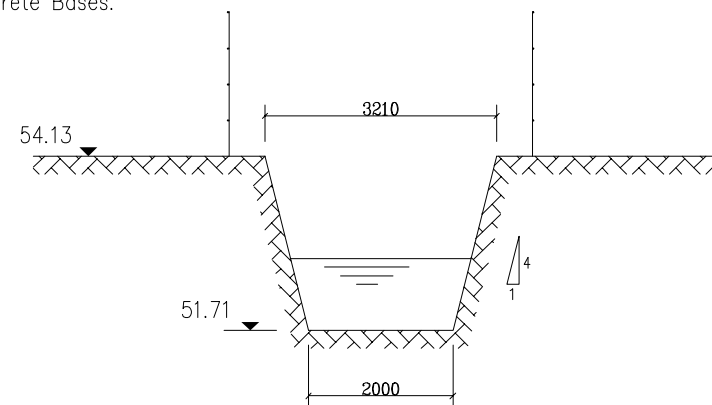


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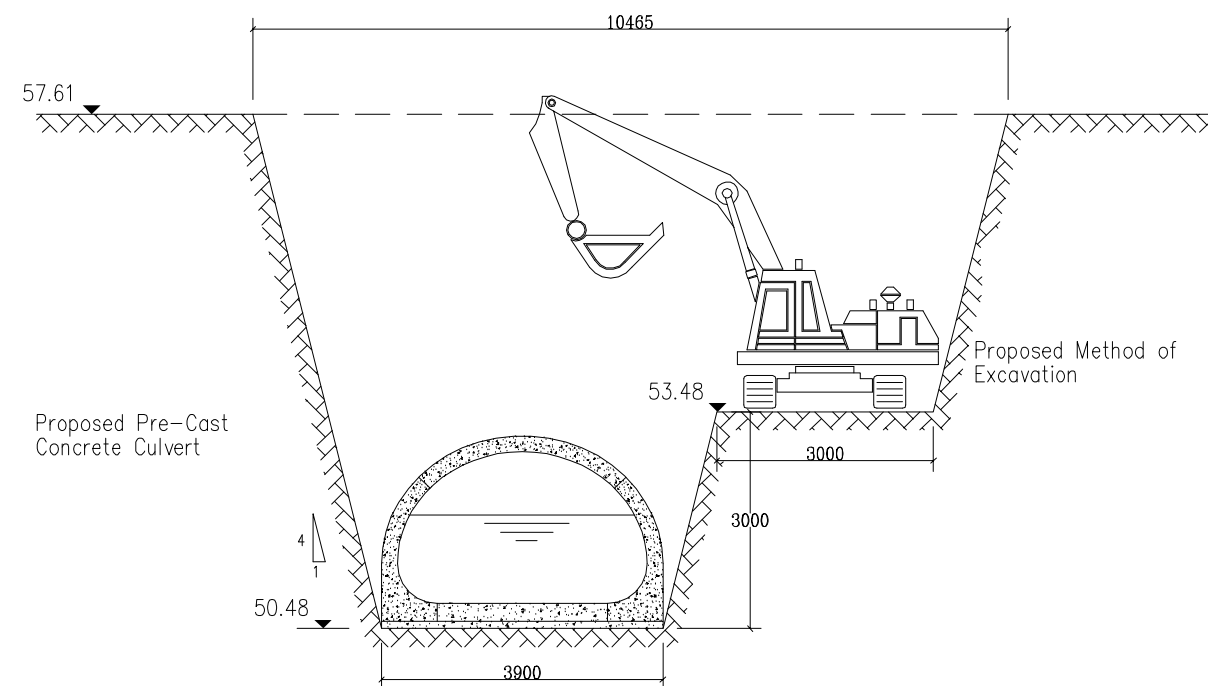
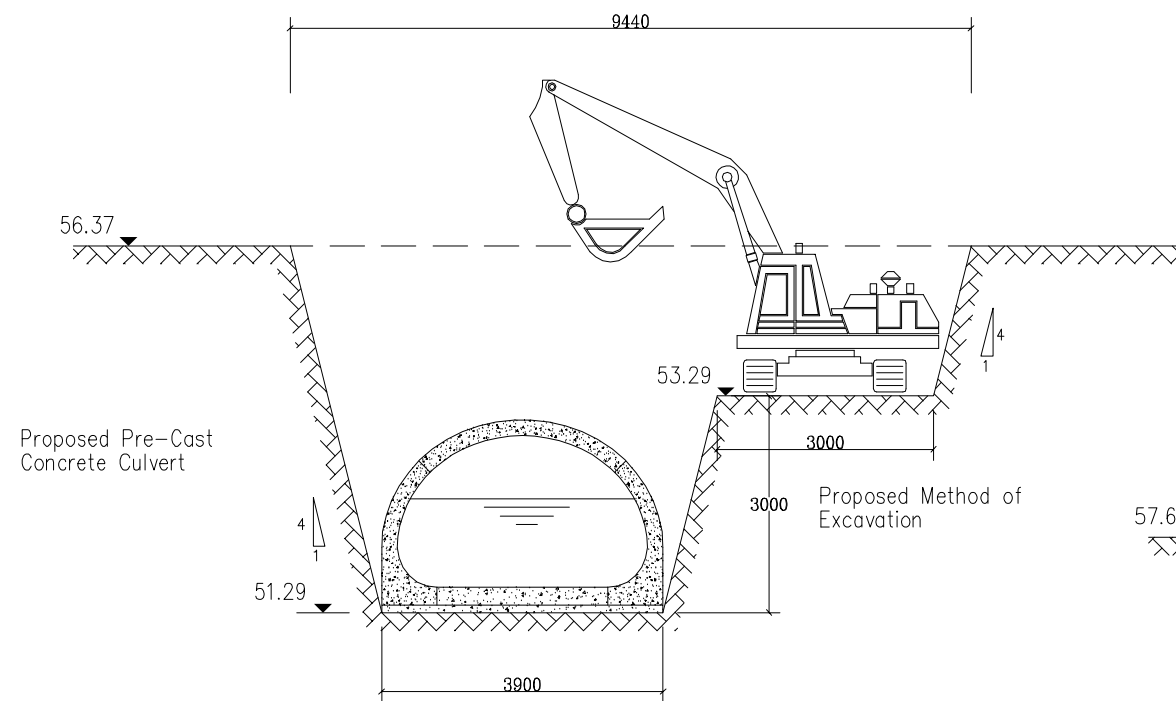
Proposed 2m High
Protective Fencing



Fencing Posts to Have
Concrete Bases.



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STUDY - DESIGN NOT REVISITED
UNDER THIS STUDY



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 4. LEVELS REFER TO POOLBEG DATUM

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client	OFFICE OF PUBLIC WORKS		
project	SOUTH GALWAY FLOOD STUDY		
stage	PRELIMINARY		
title	KILCHREEST CONTROL STRUCTURE CROSS SECTION DETAILS OPTION 2		
scales	1 / 75		
drawn PM	checked TMcG	approved CMcC	date Dec 2010

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4721/EP/11	



ORIGINAL DESIGN SOURCED FROM
THE 1998 SOUTH GALWAY FLOOD
STUDY - DESIGN NOT REVISITED
UNDER THIS STUDY

Direction of Flow

Aggard Stream

C1/98/23

For Section 5 To
C1/98/23 Refer To
Drg. No. 4721/EP/13

C1/98/23/5

For Section C1/98/23/11
To C1/98/23/5 Refer
To Drg. No. 4721/EP/12

PROPOSED FLOOD
ALLEVIATION
CHANNEL
C1/98/23

C1/98/23/11

POLLNAGARRAGH EAST Td.

MANNIN CROSS ROADS

Monksfield River

Proposed Embankment

PARKSLEVABAUN LOUGH

Proposed Flood Control Structure

MANNIN Td.

MANNINARD Td.

Direction of Flow

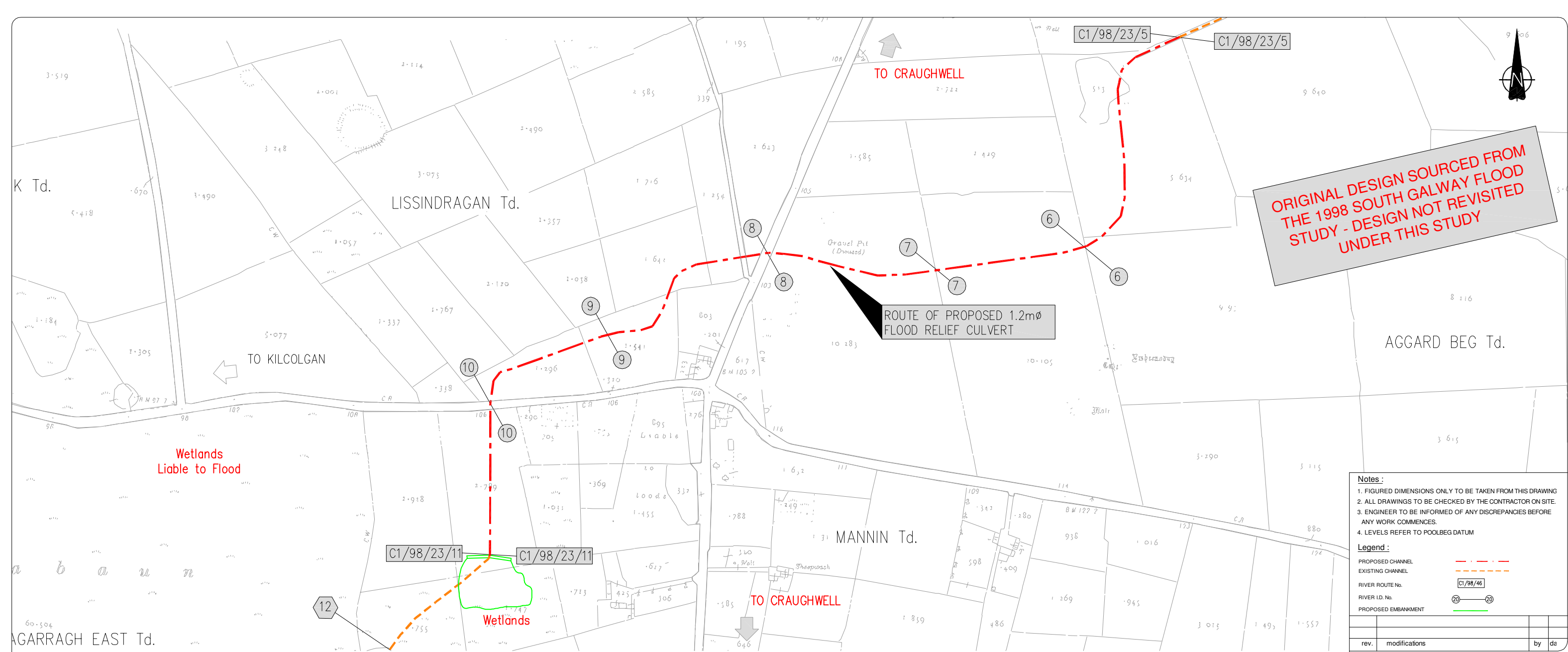
BALLYLIN WEST Td.

RAILWAYS

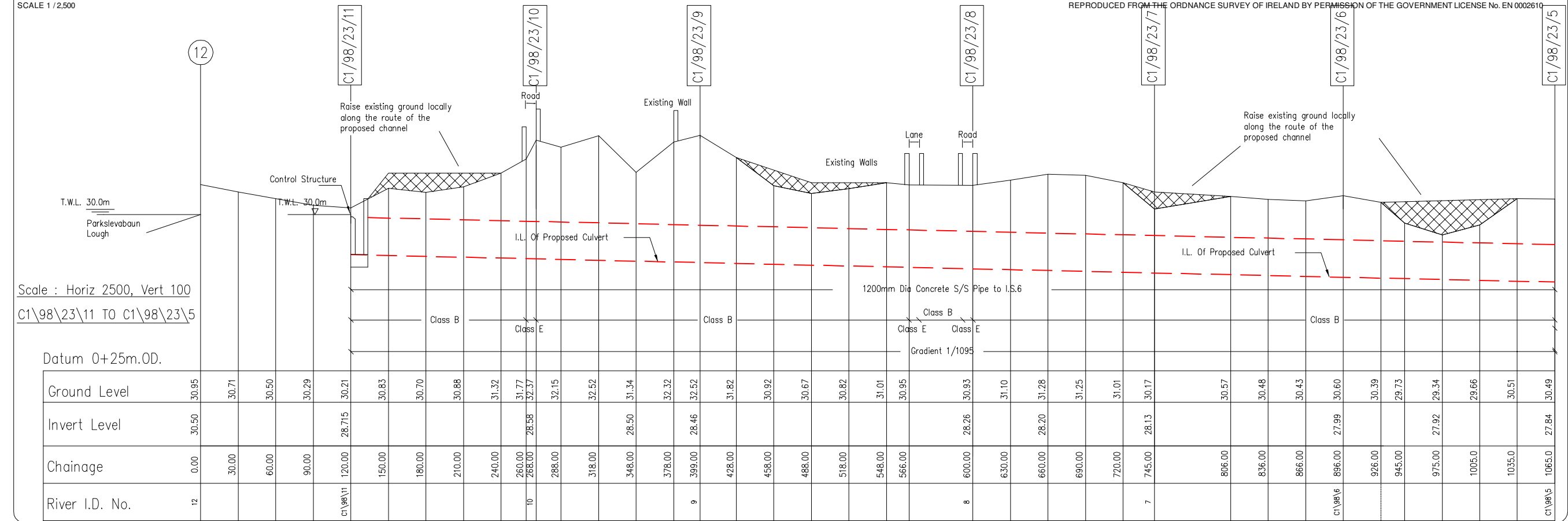
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4. LEVELS REFER TO POOLBEG DATUM			
Legend:			
PROPOSED CHANNEL			
EXISTING STREAM/RIVER			
RIVER ROUTE No.			
RIVER ID. No.			
PROPOSED EMBANKMENT			
rev.	modifications	by	date

client	OFFICE OF PUBLIC WORKS		
project	SOUTH GALWAY FLOOD STUDY		
stage	PRELIMINARY		
title	MANNIN CROSS DRAINAGE ALLEVIATION LAYOUT PLAN		
scales	1 / 7,500		
drawn	checked	approved	date
PM	TMcG	CMcC	Dec 2010
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4721/EP/12			

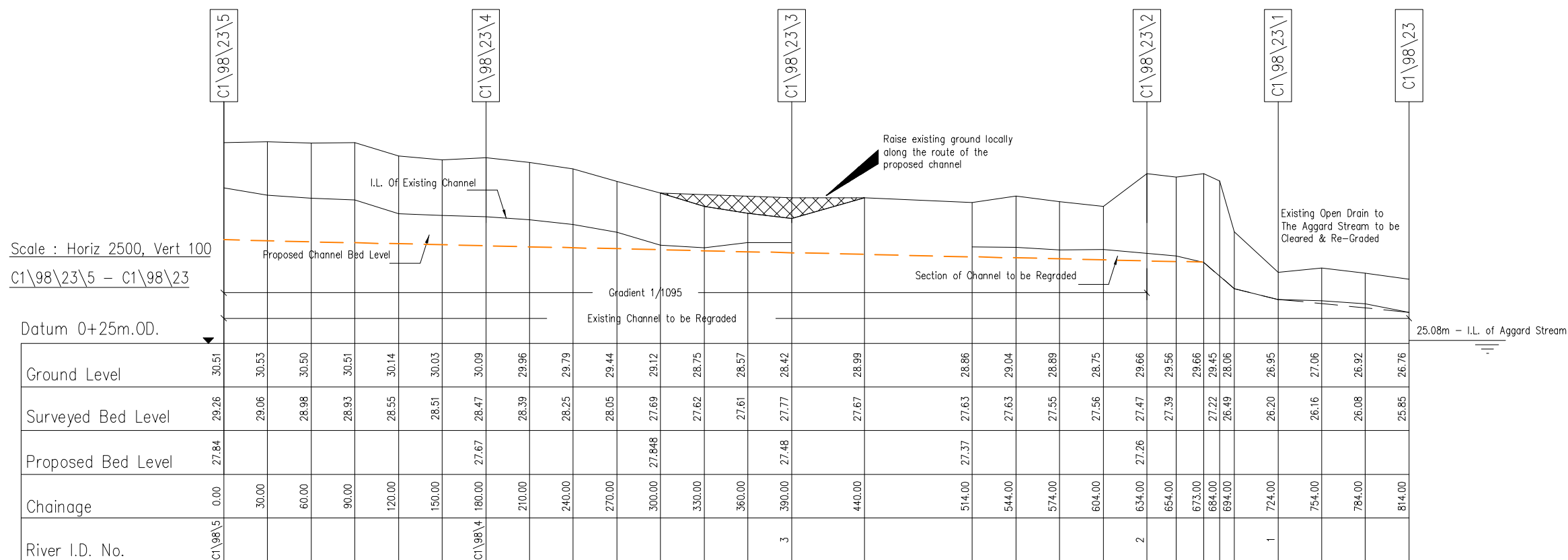
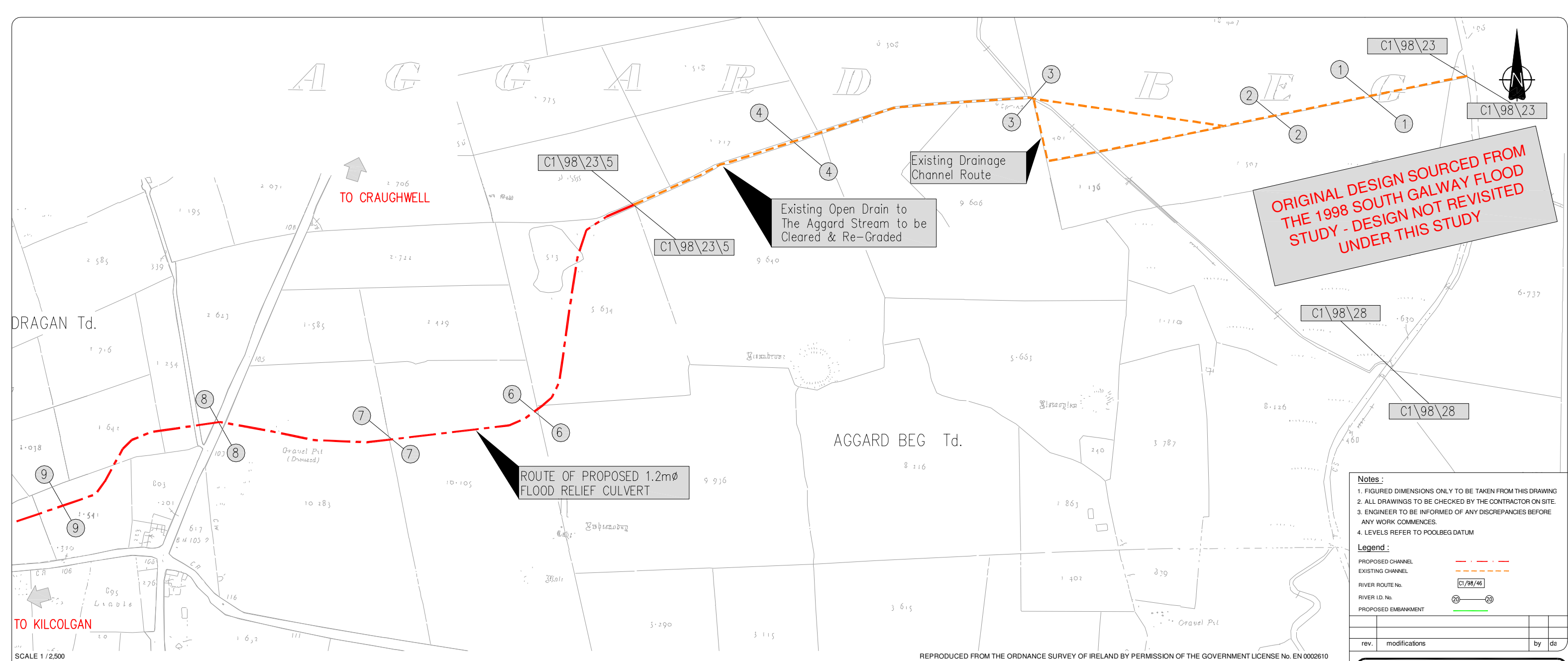




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4. LEVELS REFER TO POOLBEG DATUM			
Legend:			
PROPOSED CHANNEL		---	
EXISTING CHANNEL		---	
RIVER ROUTE No.		C1/98/46	
RIVER I.D. No.		20	
PROPOSED EMBANKMENT		---	
rev.	modifications	by	date



client			
OFFICE OF PUBLIC WORKS			
project			
SOUTH GALWAY FLOOD STUDY			
stage			
PRELIMINARY			
title			
MANNIN CROSS DRAINAGE ALLEVIATION LAYOUT PLAN & SECTION - 1 OF 2			
scales			
As Shown			
drawn	checked	approved	date
PM	TMcG	CMcC	Dec 2010
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4721/EP/13			



client
OFFICE OF PUBLIC WORKS

project
SOUTH GALWAY FLOOD STUDY

stage
PRELIMINARY

title
MANNIN CROSS DRAINAGE
ALLEVIATION
LAYOUT PLAN & SECTION - 2 OF 2

scales
As Shown

drawn	checked	approved	date
PM	TMcG	CMcC	Dec 2010

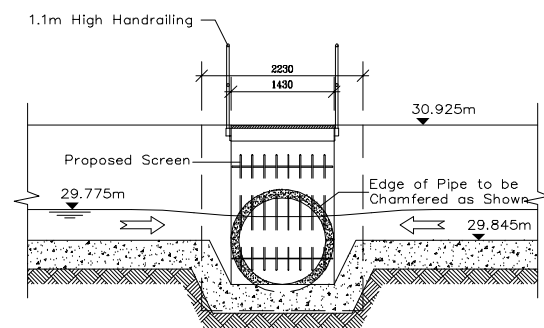
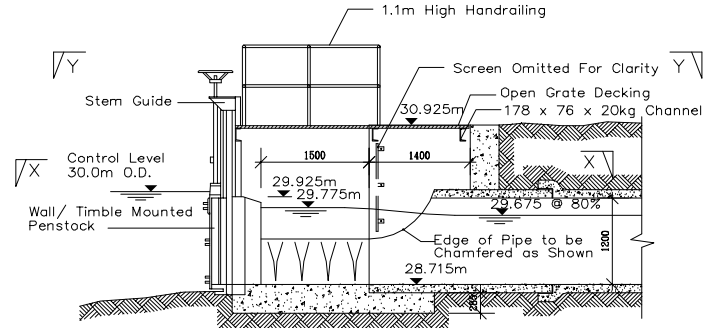
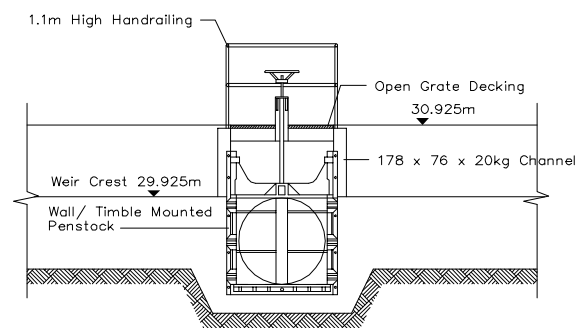
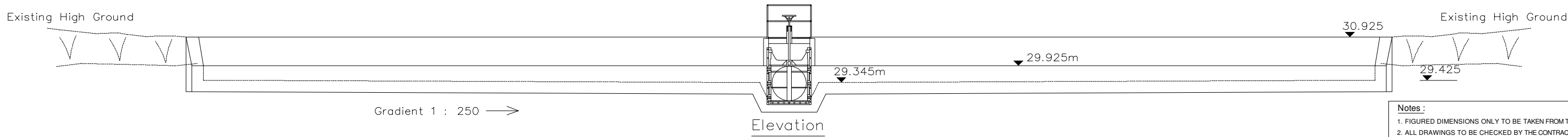
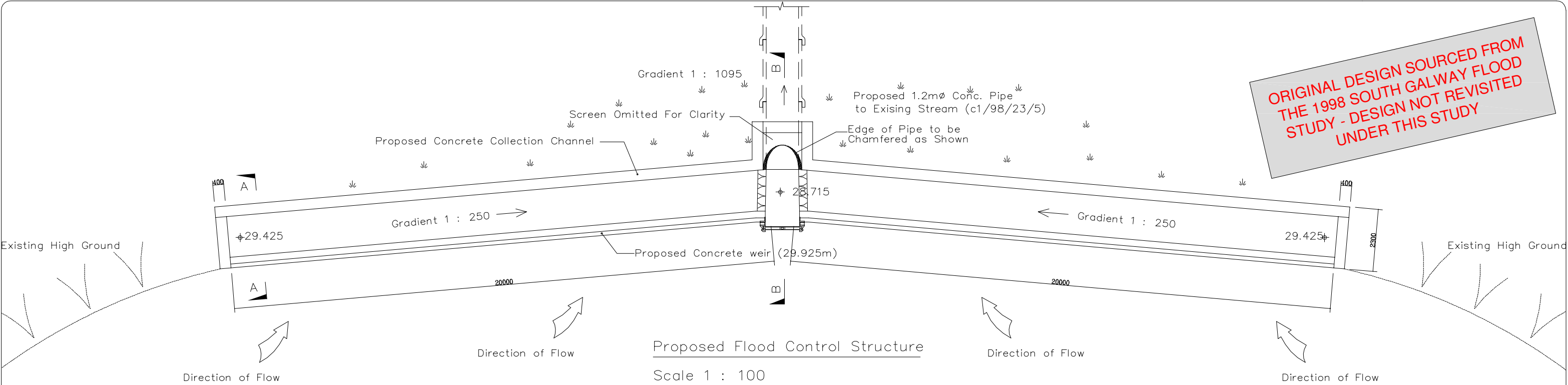
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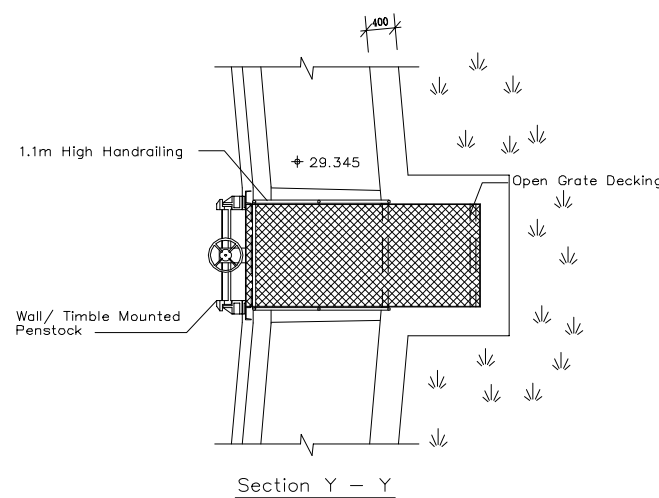
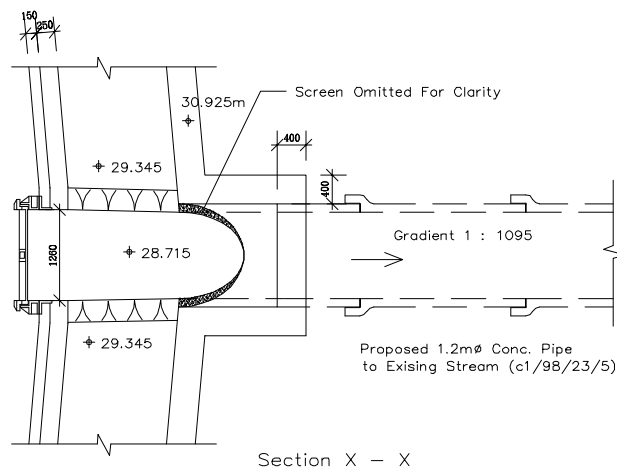
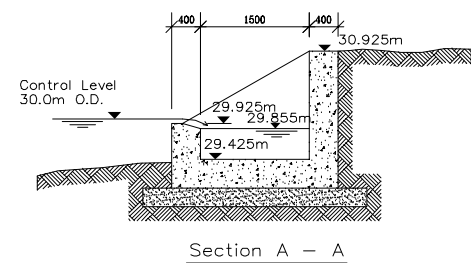
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4721/EP/14

revision

ORIGINAL DESIGN SOURCED FROM THE 1998 SOUTH GALWAY FLOOD STUDY - DESIGN NOT REVISITED UNDER THIS STUDY



Proposed Flood Control Structures / Cross Sections
Scale 1 : 75

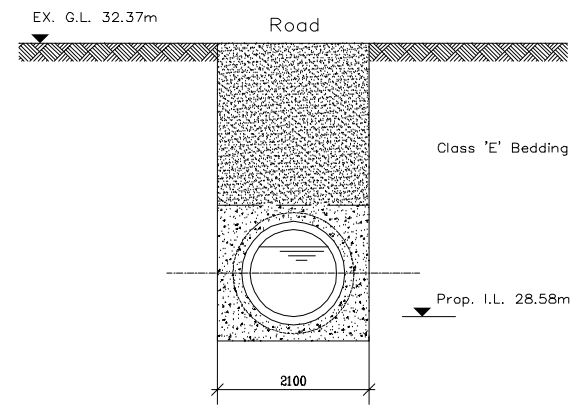


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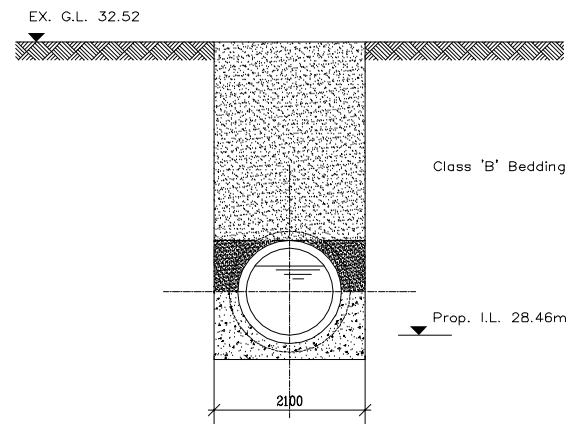
1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING
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4. LEVELS REFER TO POOLBEG DATUM

rev.	modifications	by	da

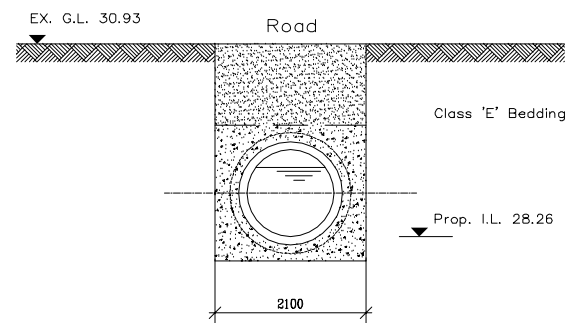
client	OFFICE OF PUBLIC WORKS		
project	SOUTH GALWAY FLOOD STUDY		
stage	PRELIMINARY		
title	MANNIN CROSS DRAINAGE ALLEVIATION CROSS SECTION DETAILS 1 OF 2		
scales	1 / 100 & 1 / 75		
drawn PM	checked TMcG	approved CMcC	date Dec 2010
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Section C1/98/23/10

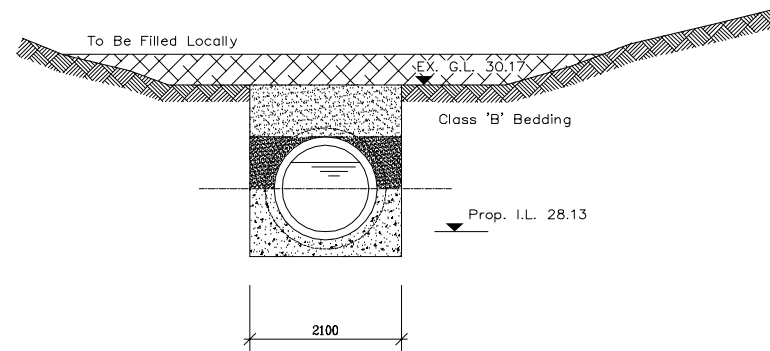


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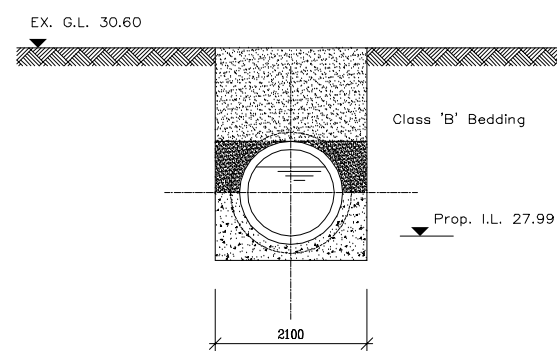


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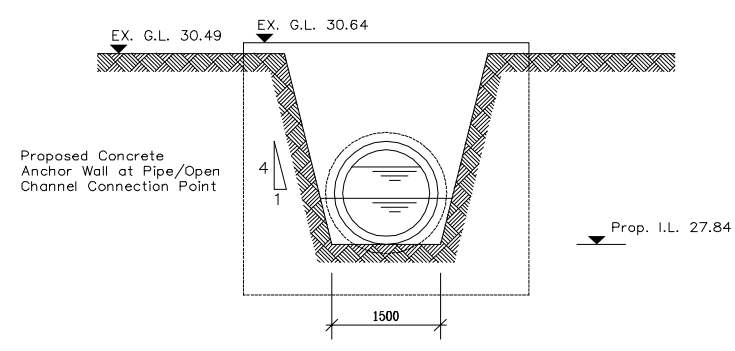
ORIGINAL DESIGN SOURCED FROM
THE 1998 SOUTH GALWAY FLOOD
STUDY - DESIGN NOT REVISITED
UNDER THIS STUDY



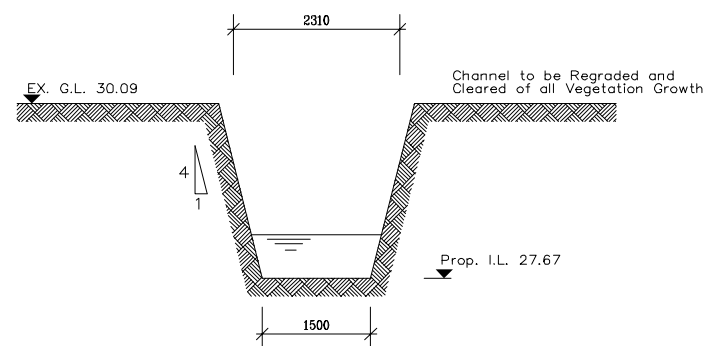
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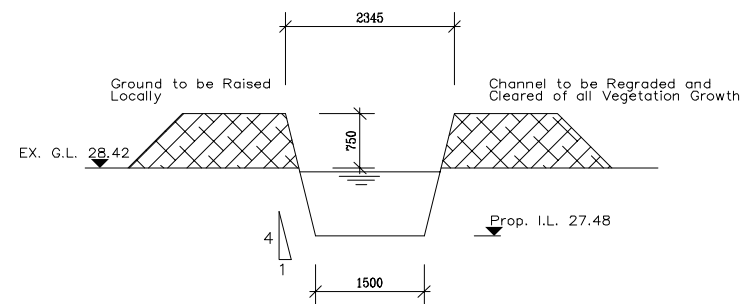
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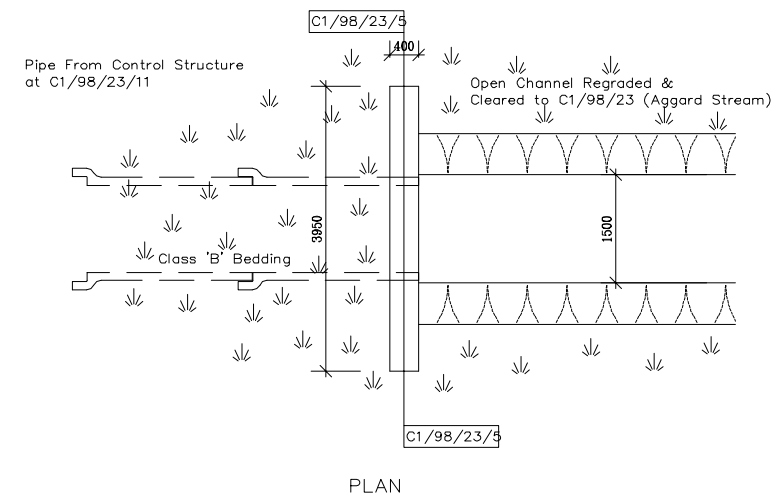
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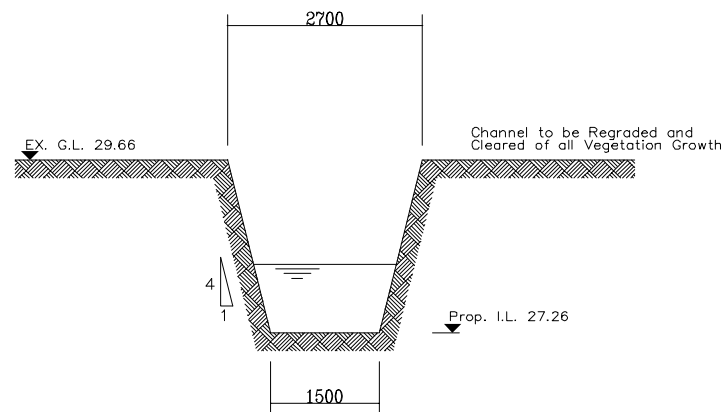
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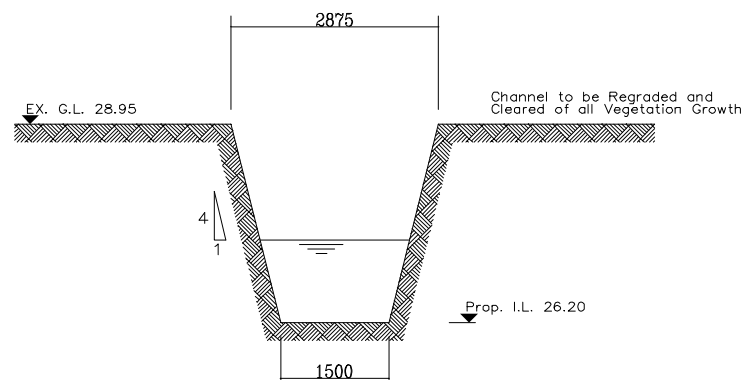
Section C1/98/23/3



PLAN



Section C1/98/23/2



Section C1/98/23/1

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- LEVELS REFER TO POOLBEG DATUM

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client OFFICE OF PUBLIC WORKS													
project SOUTH GALWAY FLOOD STUDY													
stage PRELIMINARY													
title MANNIN CROSS DRAINAGE ALLEVIATION CROSS SECTION DETAILS 2 OF 2													
scales 1 / 75													
drawn PM	checked TMcG	approved CMcC	date Dec 2010										
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drawing no. 4721/EP/16		revision <table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>											





SCALE 1 / 2,500

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client

OFFICE OF PUBLIC WORKS

project

SOUTH GALWAY FLOOD STUDY

stage

PRELIMINARY

title

MANNIN CROSS DRAINAGE ALLEVIATION
PROPOSED ROAD LAYOUT & SECTION 1 OF 2

scales

As Shown

drawn

checked

approved

date

PM

TMcG

CMcC

Dec 2010

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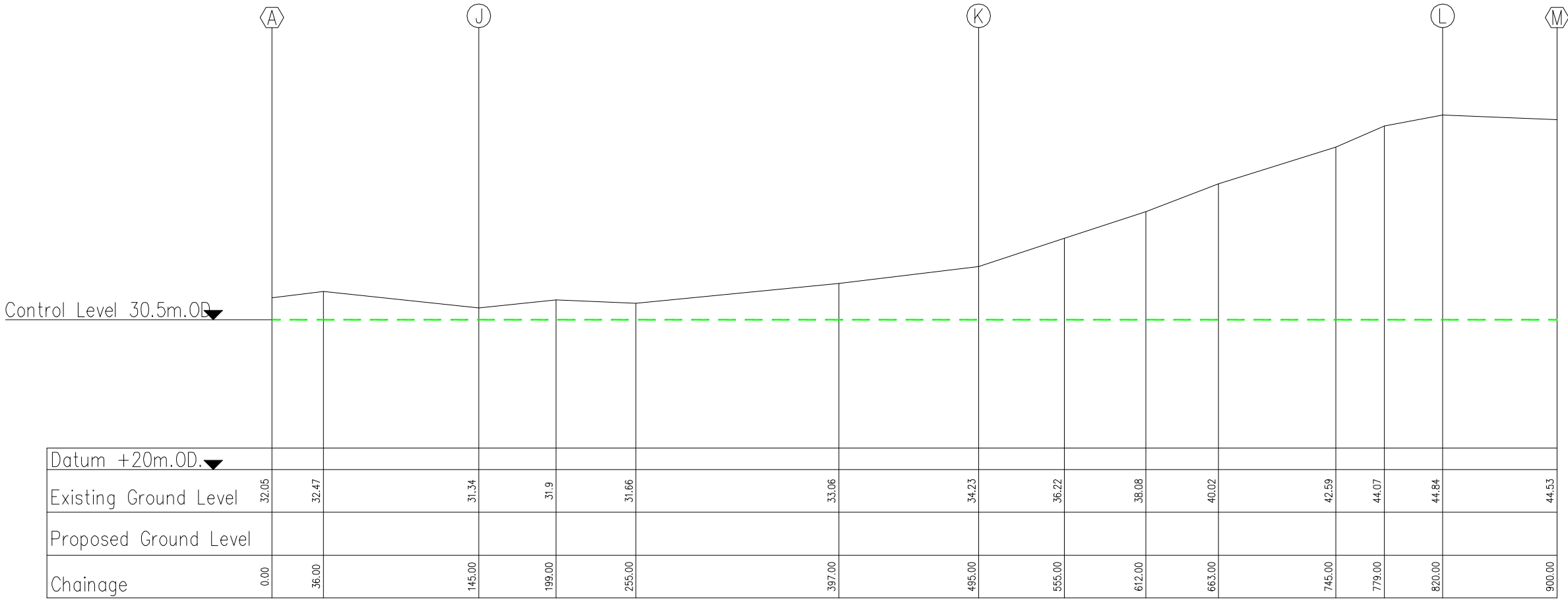
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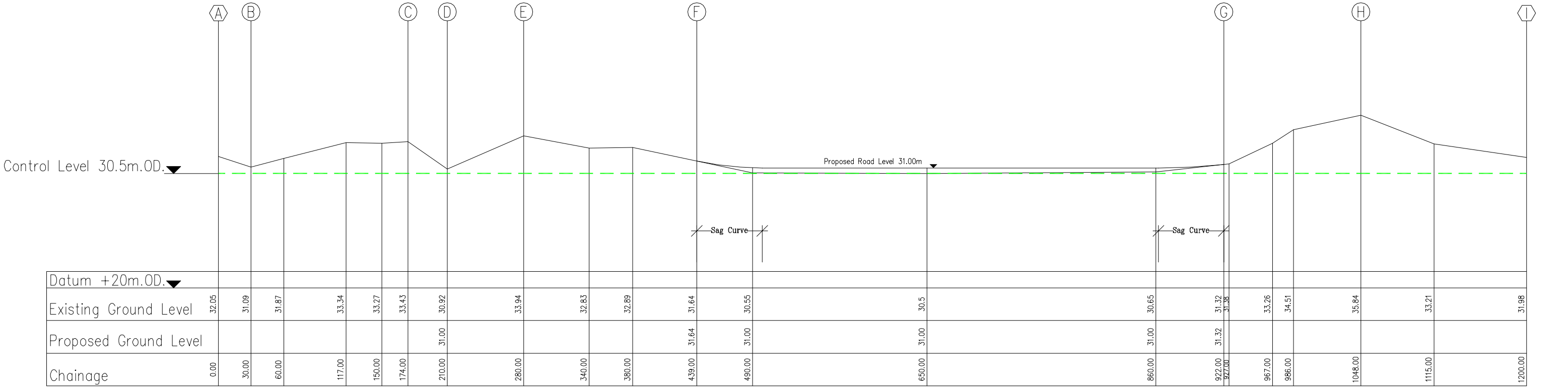
drawing no.

revision

4721/EP/17



Datum +20m.OD.▼																				
Existing Ground Level	32.05	32.47	31.34	31.9	31.66	33.06	34.23	36.22	38.08	40.02	42.59	44.07	44.84	44.53						
Proposed Ground Level																				
Chainage	0.00	36.00	145.00	199.00	255.00	397.00	495.00	555.00	612.00	663.00	745.00	779.00	820.00	900.00						



LONGITUDINAL SECTION

Cumulative Chainage 0.00m

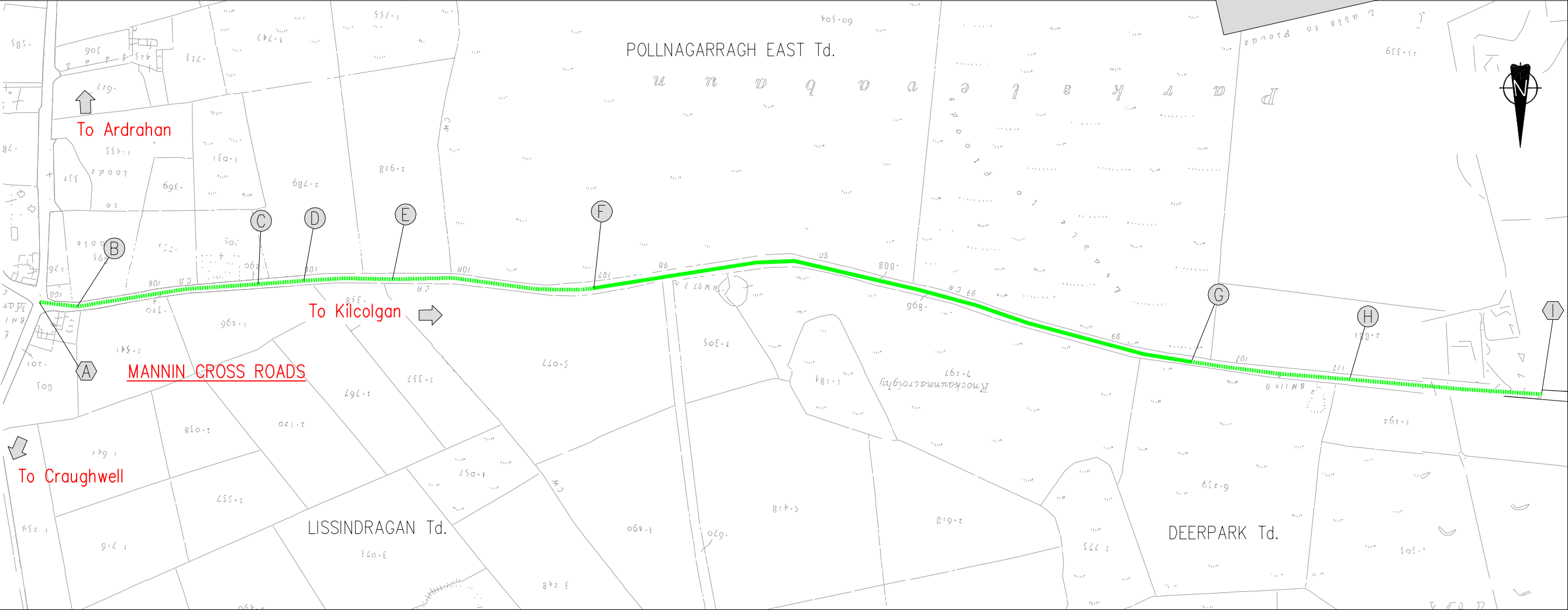
Scale : Horiz 1000, Vert 250

MANNIN CROSS ROADS TOWARDS KILCOLGAN

1200.00m

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 4. LEVELS REFER TO POOLBEG DATUM



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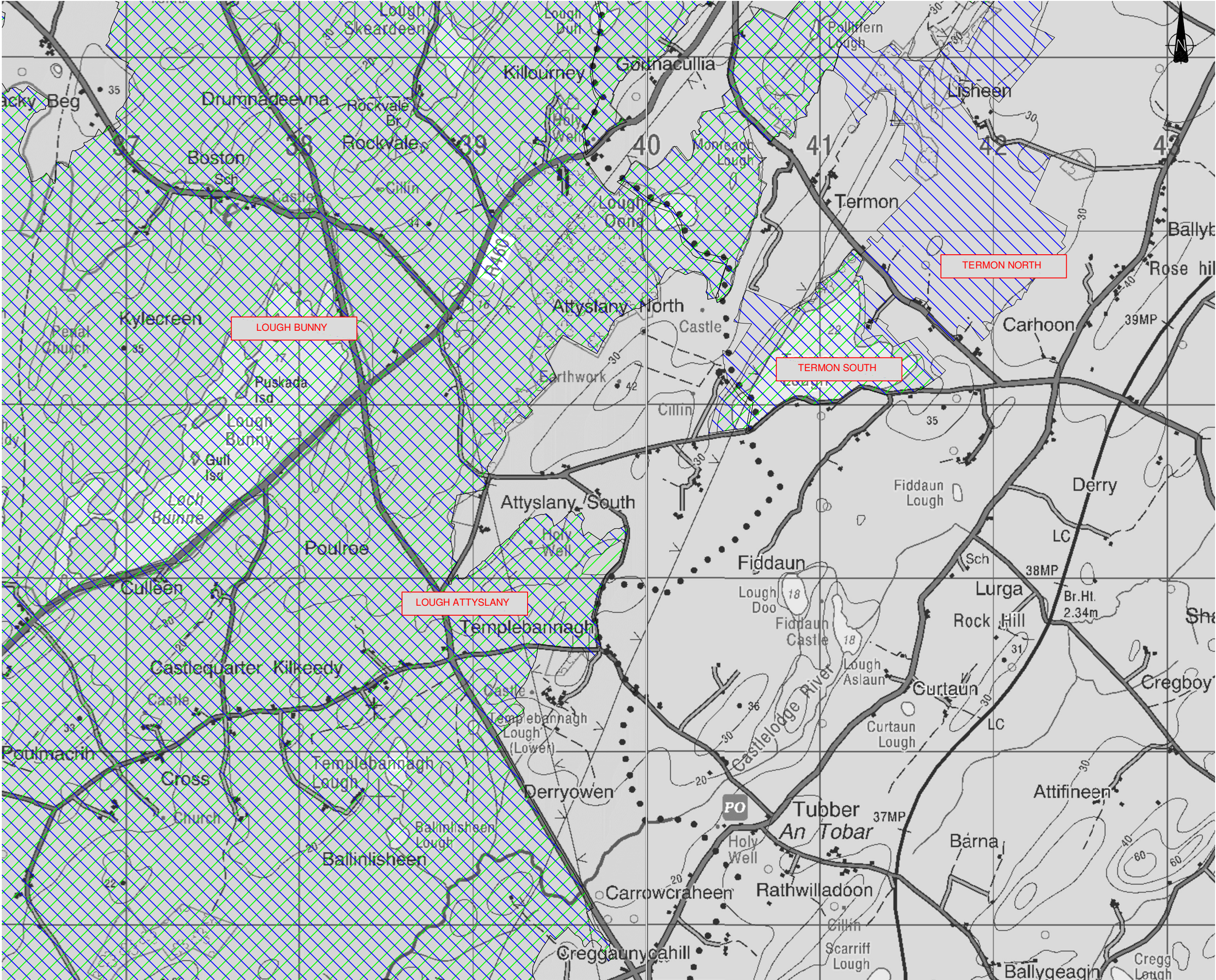
client			
OFFICE OF PUBLIC WORKS			
project			
SOUTH GALWAY FLOOD STUDY			
stage			
PRELIMINARY			
title			
MANNIN CROSS DRAINAGE ALLEVATION PROPOSED ROAD LAYOUT & SECTION 2 OF 2			
scales			
As Shown			
drawn PM	checked TMcG	approved CMcC	date Dec 2010

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4721/EP/18	






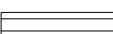
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2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.

3. ENGINEER TO BE INFORMED OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.

LEGEND :

-  SPECIAL PROTECTION AREAS
-  SPECIAL AREAS OF CONSERVATION
-  PROPOSED NATURAL HERITAGE AREAS
-  NATURAL HERITAGE AREAS

rev.	modifications		by	da

client	OFFICE OF PUBLIC WORKS		
project	SOUTH GALWAY FLOOD STUDY		
stage	PRELIMINARY		
title	DESIGNATED AREAS TERMON		
scales	1 / 10,000		
drawn PM	checked TMcG	approved CMcC	date Dec 2010

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4721/EP/19	