

KEY

- Preferred Agronomy Corridors
- Sensitive Enterprise Land Parcels
- Forestry Land Parcel
- Landowner Land Parcel

0 1 2 3 4 5
Scale Bar Kilometres
Ordnance Survey Ireland Licence Number "WestmeathCCMA9802"

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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Department of Transport

NDP
National Development Plan 2007-2013
National Roads Authority

Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

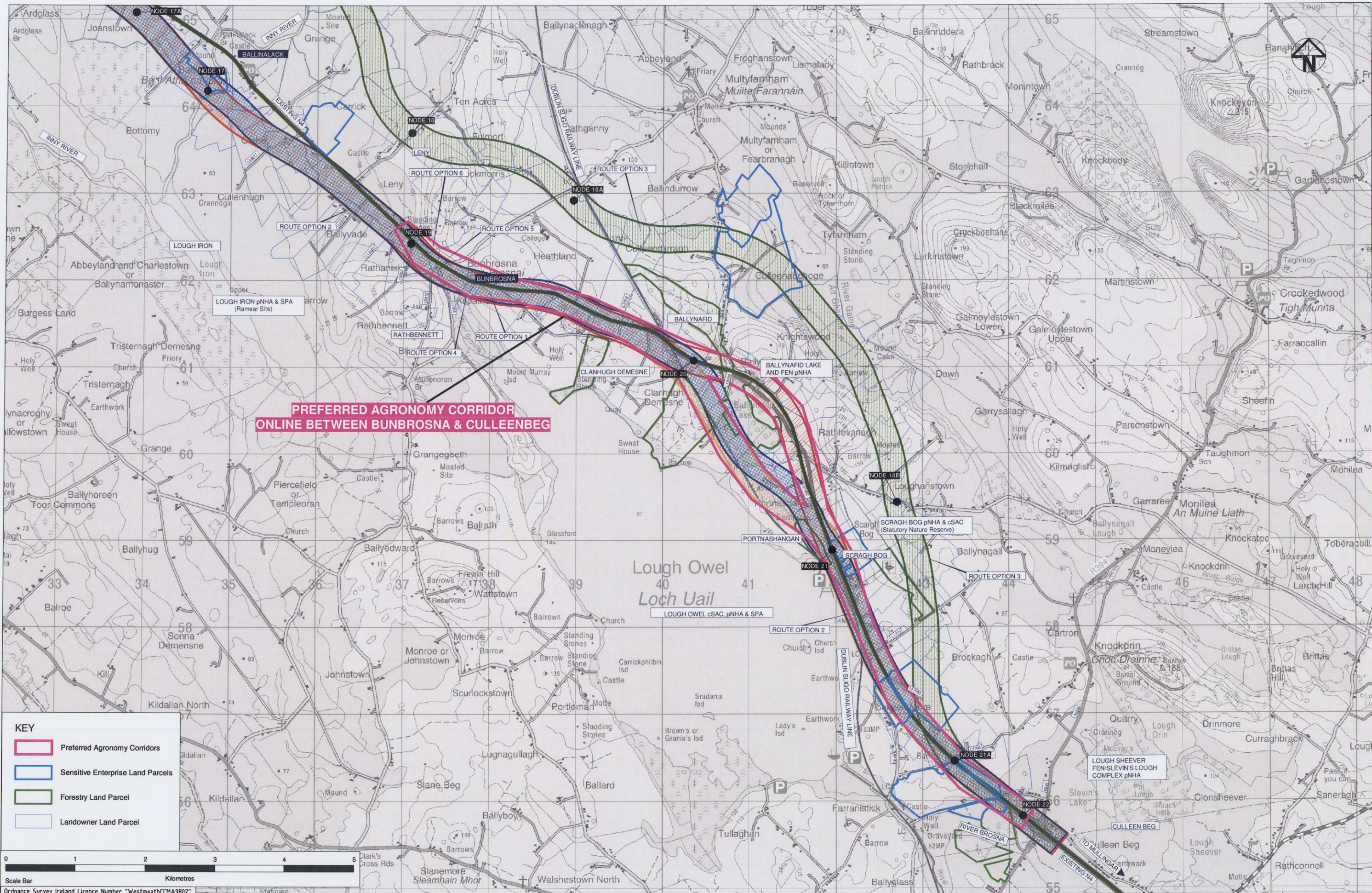
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03	MARCH09	ISSUE FOR PEER REVIEW	FL
02	MARCH09	FINAL ISSUE RCSR	FL
01	FEB09	RCSR FIRST DRAFT	FL

Title: **AGRONOMY OVERVIEW (Sheet 3 of 4)**

HyderTobin CONSULTANTS
Unit 38, Bracken Business Park, Bracken Road, Sandford, Dublin 18, Ireland
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Drawn	Job No	Rev
P. McAteer	G001038	
W. Murray	RFig 4.3.3-G001038-1G0-06	
M. Farrelly	Drawing No	
FEB09	Scale	1:10,000 (A3) 1:20,000 (A1)

RFig 4.3.3 06



KEY

- Preferred Agronomy Corridors
- Sensitive Enterprise Land Parcels
- Forestry Land Parcel
- Landowner Land Parcel



NOTE: KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
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- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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N4 MULLINGAR TO LONGFORD (ROOSKY)

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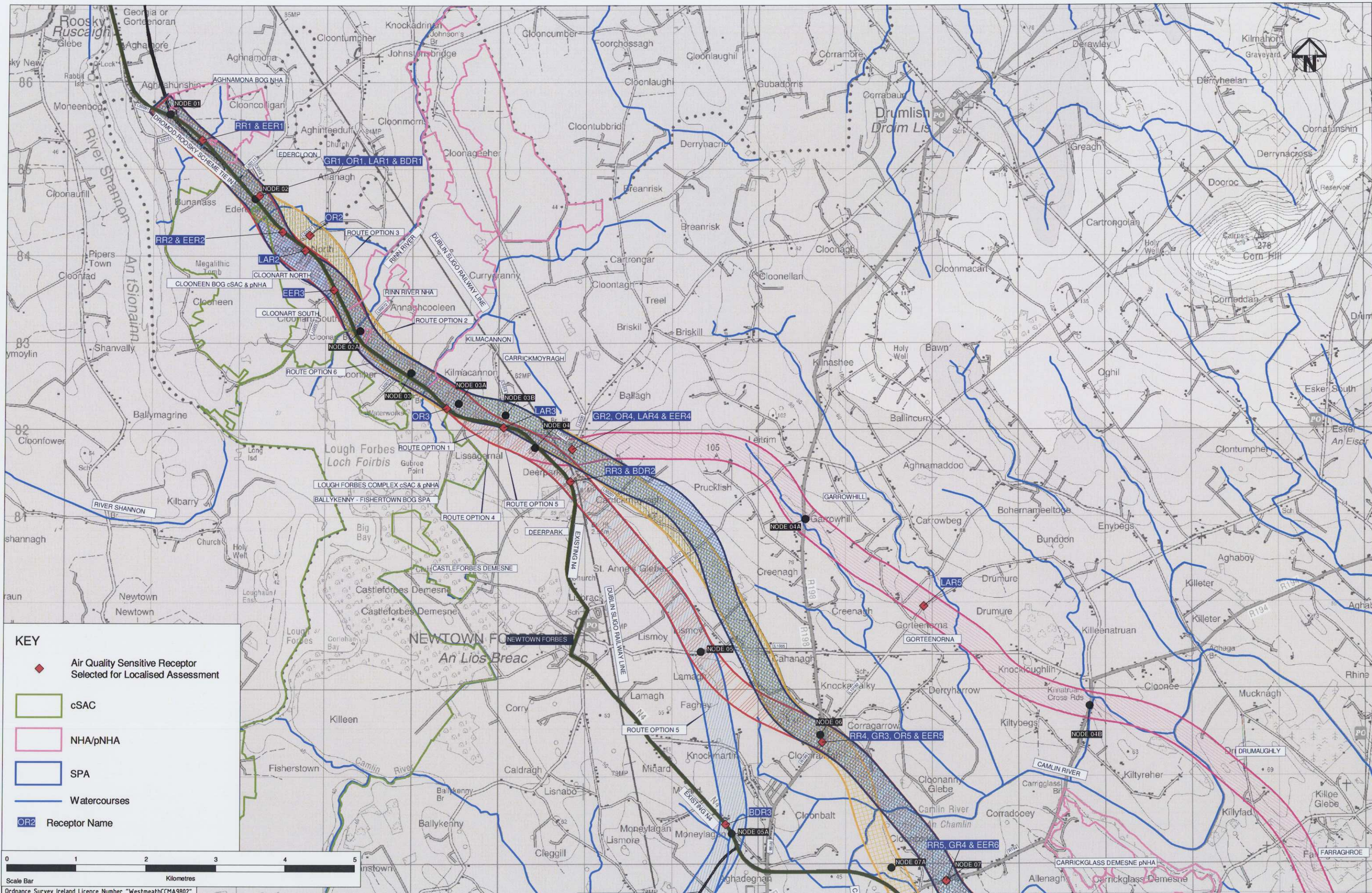
AGRONOMY OVERVIEW
(Sheet 4 of 4)

HyderTobin CONSULTANTS
Unit 30, Bracken Business Park, Bracken Road, Sandford, Dublin 18, Ireland
Tel: +353 1 293 8855
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Drawn: P. McTeer
Checked: W. Murray
Approved: M. Farley
Date: FEB09
Scale: 1:10,000 (A3/120,000)

Job No: G009038
File No: RFG4.3.4-G009038-160-06
Drawing No:
RFG 4.3.4

06



KEY

- Air Quality Sensitive Receptor Selected for Localised Assessment
- cSAC
- NHA/pNHA
- SPA
- Watercourses
- Receptor Name

Scale Bar
0 1 2 3 4 5 Kilometres

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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N4 MULLINGAR TO LONGFORD (ROOSKY)

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02	MARCH09	FINAL ISSUE RCSR	FL
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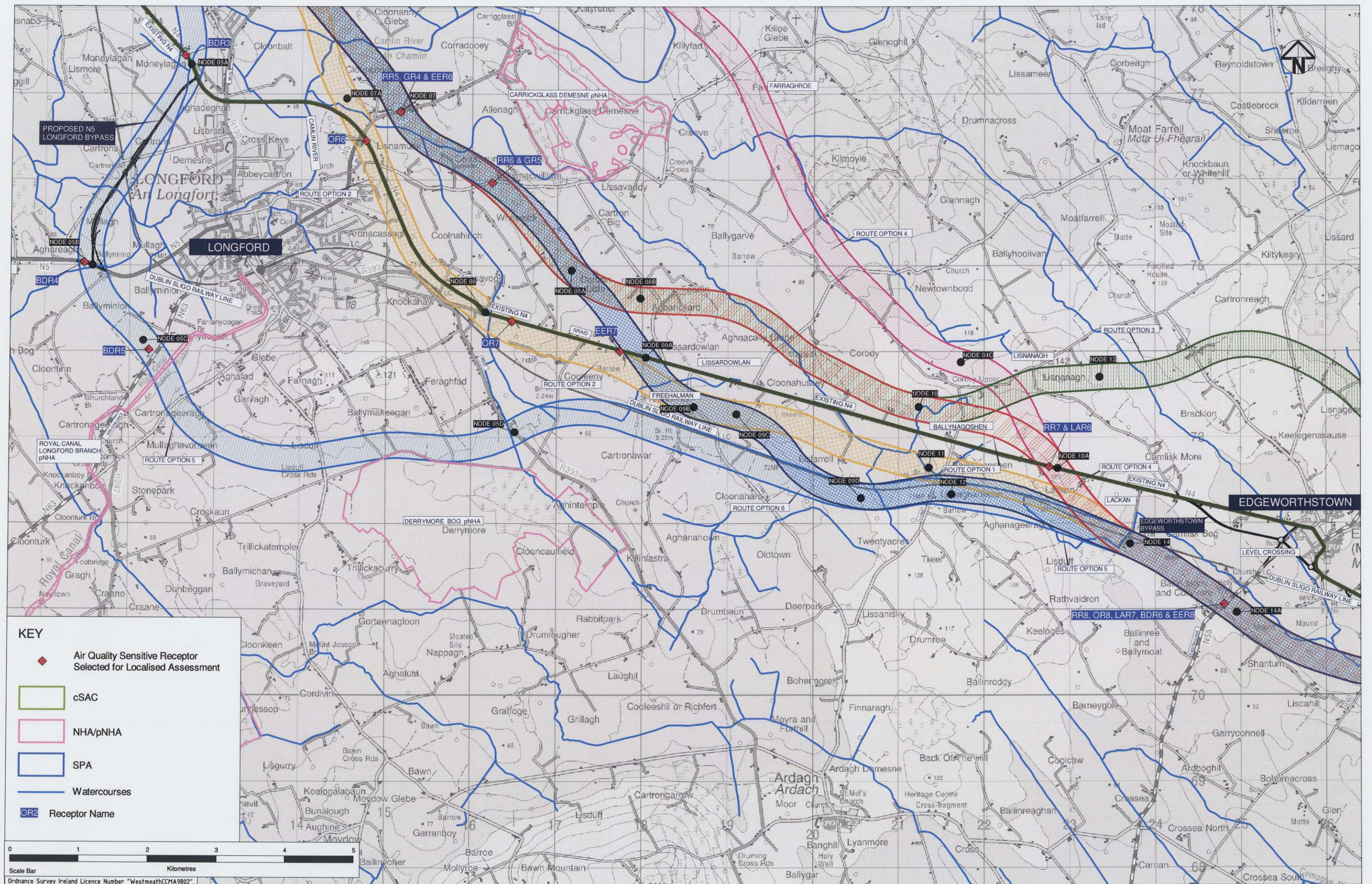
AIR QUALITY SENSITIVE RECEPTORS' LOCATIONS (Sheet 1 of 4)

HyderTobin CONSULTANTS

Unit 30, Bracken Business Park, Bracken Road, Sandford, Dublin 20, Ireland
Tel: +353 1 293 8855
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Drawn: P. McTeer
Checked: W. Murray
Approved: M. Farley
Date: NOV08
Scale: 1:40,000 (A3) 1:20,000 (A4)

Job No: GD09038
File No: RFG4.4.1-GD09038-TGD-06
Drawing No: RFG 4.4.1
Rev: 06



KEY

- Air Quality Sensitive Receptor Selected for Localised Assessment
- cSAC
- NHA/pNHA
- SPA
- Watercourses
- Receptor Name

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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LEADERSTOCK/CARMA/NOVA/PROGRESSIVE/PROSPERITY

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NRA
National Roads Authority

Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

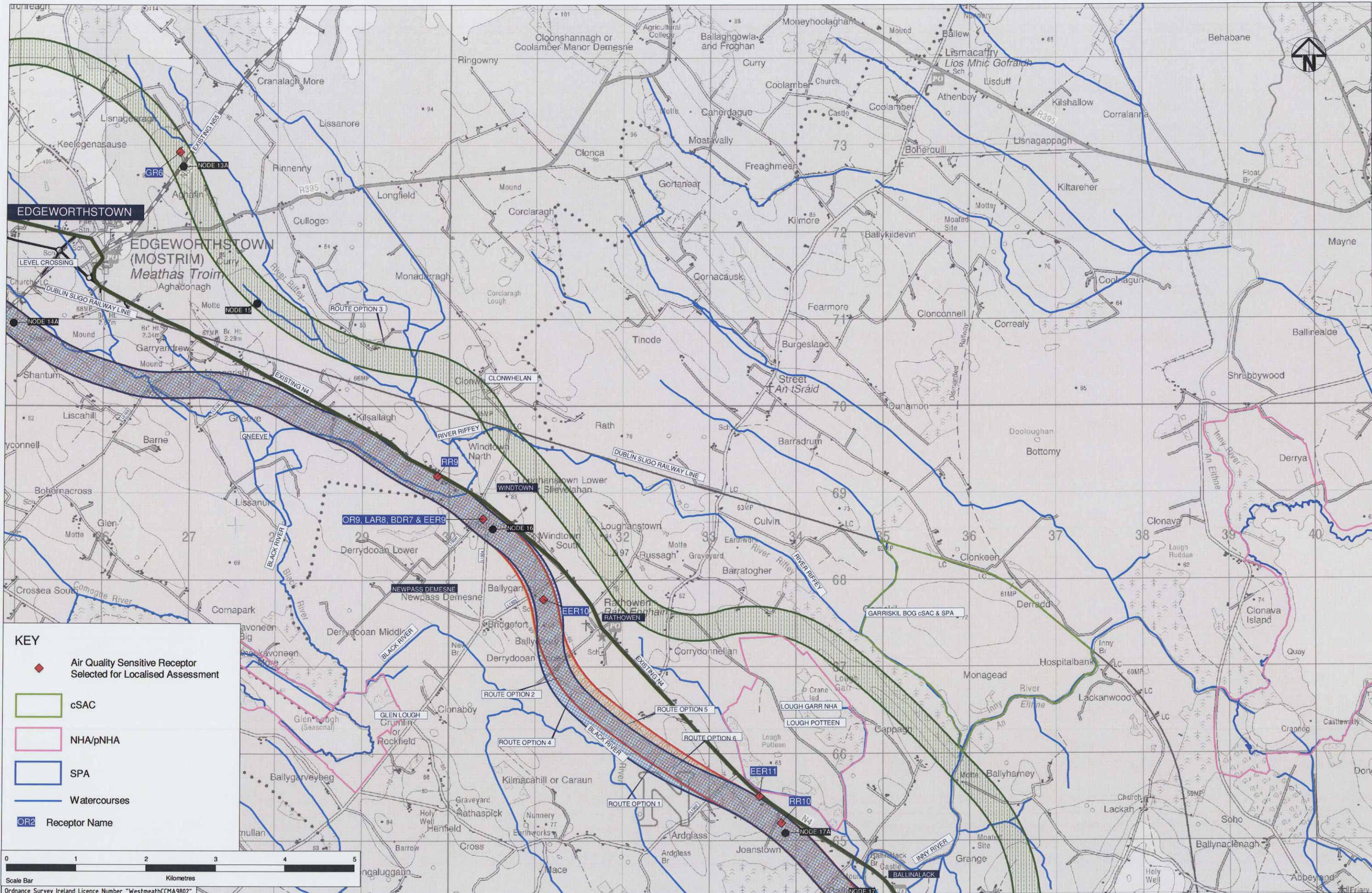
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03	MAR10	ISSUE FOR PEER REVIEW	FL
02	MAR10	FINAL ISSUE RCSR	FL
01	FEB09	RCSR FIRST DRAFT	FL

Title: **AIR QUALITY SENSITIVE RECEPTORS' LOCATIONS (Sheet 2 of 4)**

HYDER TOBIN CONSULTANTS
Unit 36, Bracken Business Park, Bracken Road, Sandymount, Dublin 18, Ireland
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Drawn	Checked	Approved	Date	Scale
P. McAleer	W. Murray	M. Farrelly	NOV08	1:10,000 (A3/120,000)

Job No: G004038
File No: RFig4.4.2-G004038-TGD-06
Drawing No: RFig 4.4.2
Rev: 06



KEY

- Air Quality Sensitive Receptor Selected for Localised Assessment
- cSAC
- NHA/pNHA
- SPA
- Watercourses
- OR2 Receptor Name

Scale Bar

0 1 2 3 4 5 Kilometres

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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N4 MULLINGAR TO LONGFORD (ROOSKY)

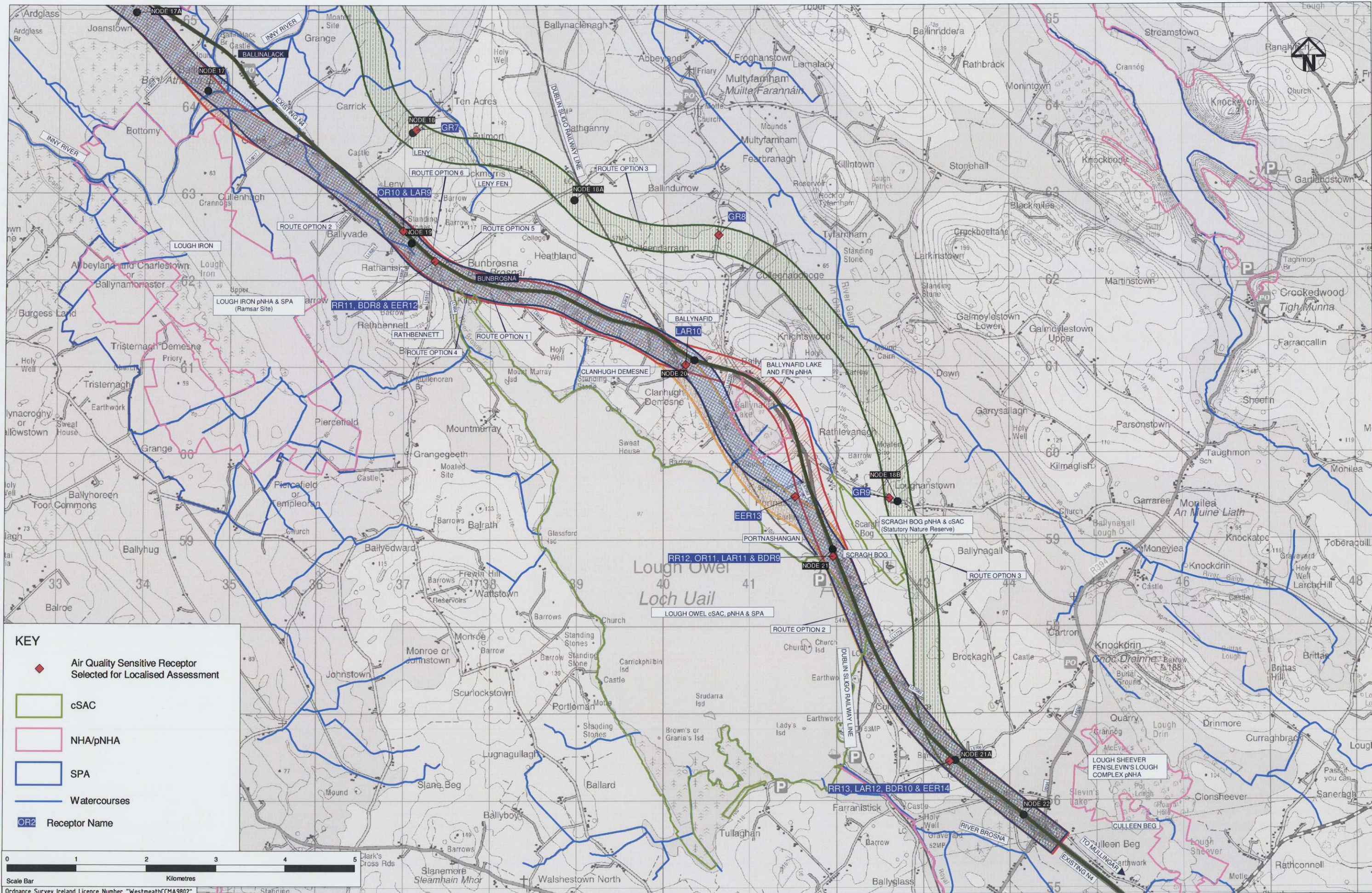
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02	MARCH09	FINAL ISSUE RCSR	FL
01	FEB09	RCSR FIRST DRAFT	FL
Rev.	Date	Description	App'd

AIR QUALITY SENSITIVE RECEPTORS' LOCATIONS
(Sheet 3 of 4)

HYDER TOBIN CONSULTANTS
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Drawn	P. McAteer	Job No.	GD09038
Checked	W. Murray	File No.	RFig 4.3-GD09038-TGD-06
Approved	M. Farley	Drawing No.	
Date	NOV08		
Scale	1:10,000 (A3/12,000 (A4))		

Rev. 06



NOTE: **KEY TO ROUTE CORRIDOR OPTIONS**

[Pattern]	ROUTE CORRIDOR OPTION 1
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[Pattern]	ROUTE CORRIDOR OPTION 4
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[Pattern]	ROUTE CORRIDOR OPTION 6

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National Roads Service Office

National Roads Authority

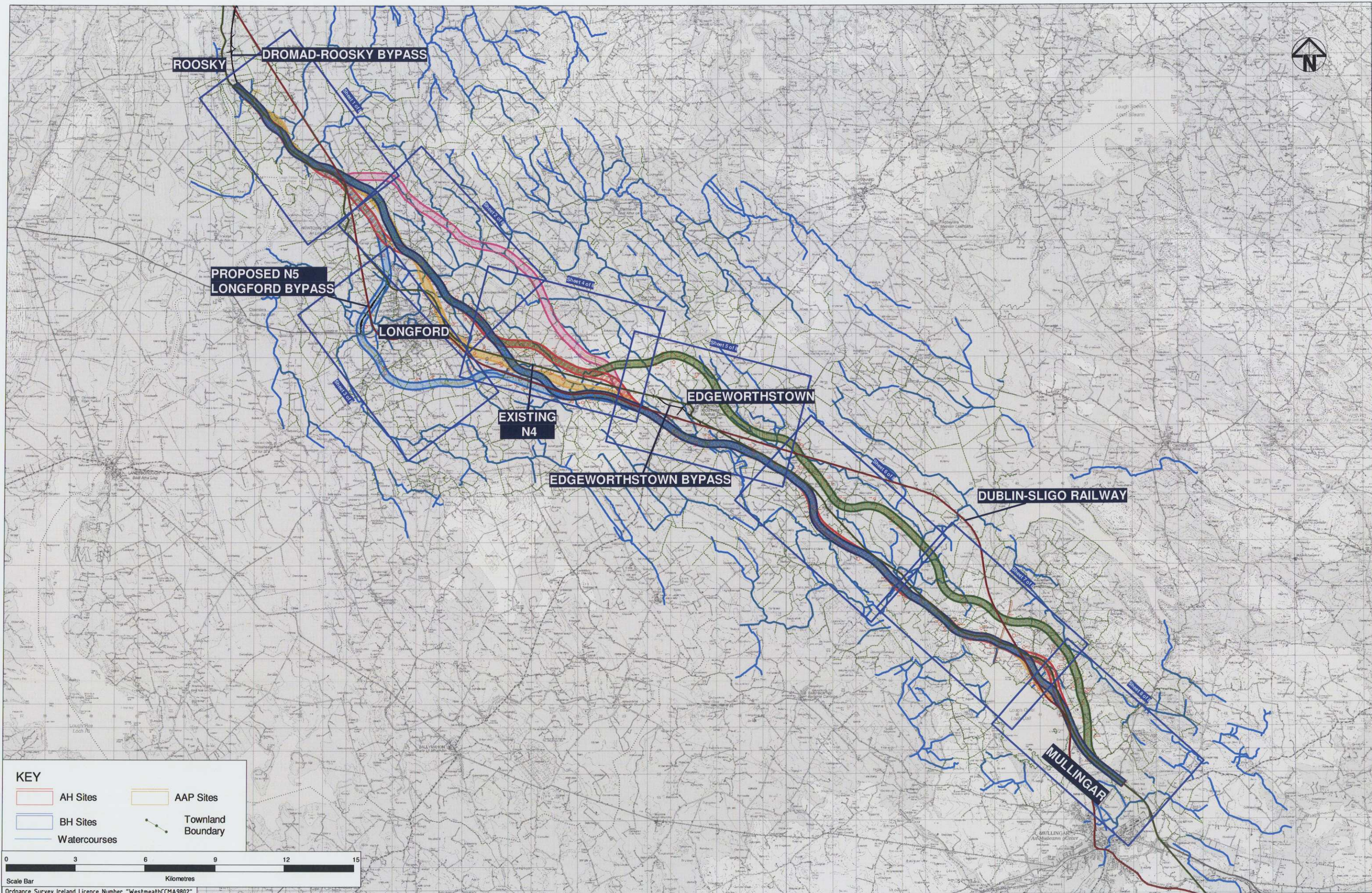
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02 MAR09	FINAL ISSUE RCSR	FL	
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Rev.	Date	Description	App'd

AIR QUALITY SENSITIVE RECEPTORS' LOCATIONS
(Sheet 4 of 4)

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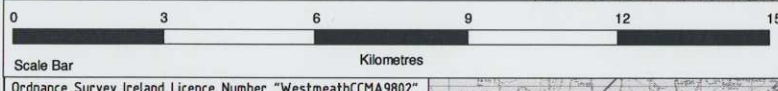
Unit 3B, Bracken Business Park, Bracken Road, Sandford, Dublin 18, Ireland
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Checked:	W. Murray	File No:	RFGL4.4-GD01038-TGD-06
Approved:	M. Farley	Drawing No:	
Date:	NOV08	Rev:	
Scale:	1:60,000 (A3) 1:20,000 (A4)	Rfig 4.4.4	06



KEY

	AH Sites		AAP Sites
	BH Sites		Townland Boundary
	Watercourses		



NOTE: KEY TO ROUTE CORRIDOR OPTIONS

	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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National Roads Authority

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01	FEB09	RCSR FIRST DRAFT	FL
Rev.	Date	Description	App'd

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Tel. +353 1 293 8855

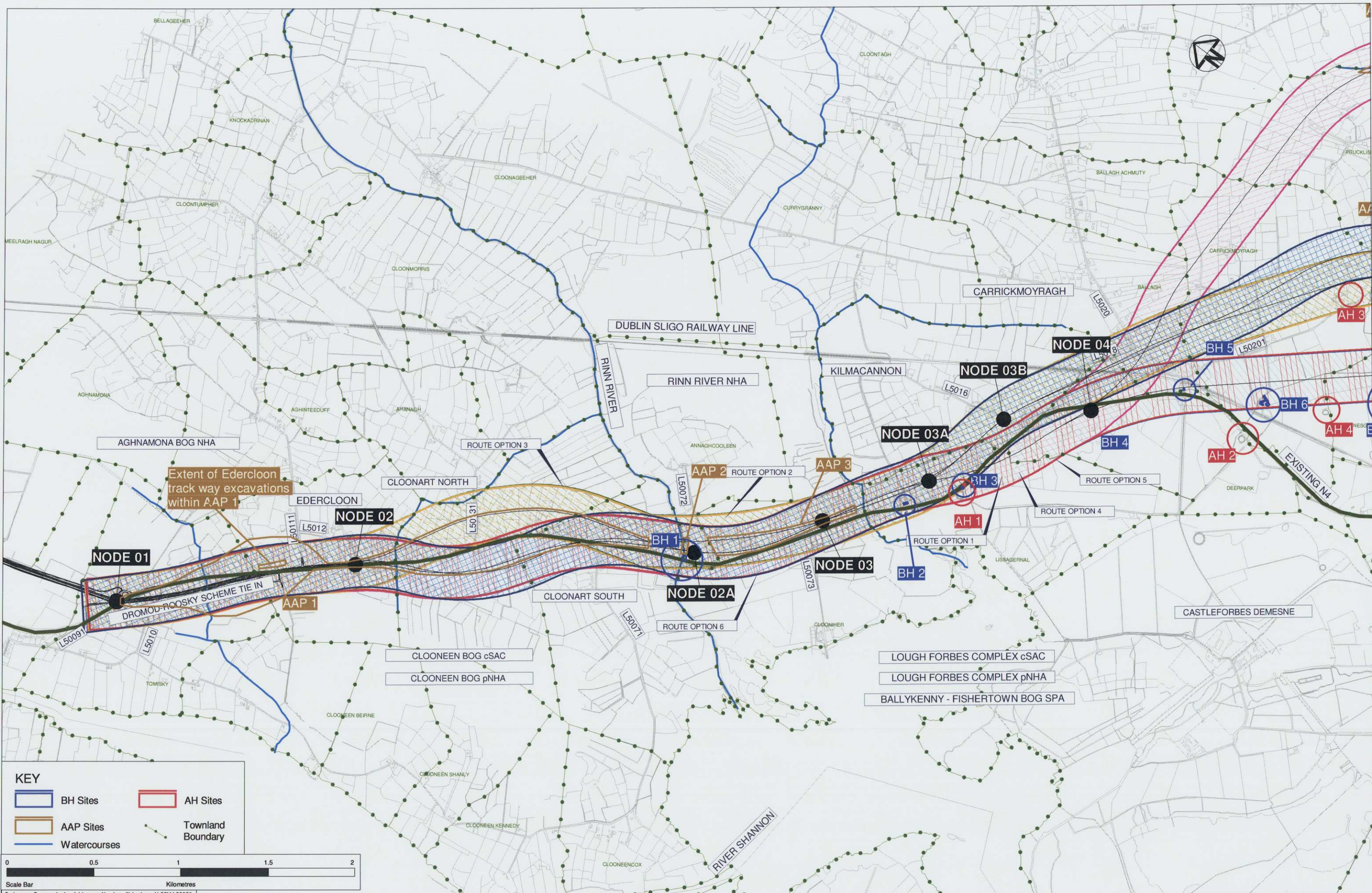
Fax. +353 1 293 8870

Drawn:	P. McAteer	Job No:	GD01038
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Approved:	M. Farley	Drawing No:	
Date:	FEB09		
Scale:	1:50,000 (A3) 1:75,000 (A1)		

CULTURAL HERITAGE OVERVIEW

RFig 4.6

06



KEY

BH Sites

AAP Sites

Watercourses

AH Sites

Townland Boundary

0 0.5 1 1.5 2

Scale Bar Kilometres

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

NOTE: **KEY TO ROUTE CORRIDOR OPTIONS**

<div></div>	ROUTE CORRIDOR OPTION 1
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Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

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04	JULY09	RCSR FINAL ISSUE	FL
03	MARCH09	ISSUE FOR PEER REVIEW	FL
02	MARCH09	FINAL ISSUE RCSR	FL
01	FEB09	RCSR FIRST DRAFT	FL

Title: **CULTURAL HERITAGE DETAIL (Sheet 1 of 8)**

Drawn	Checked	Approved	Date	Scale
P. McAteer	W. Murray	M. Faray	FEB09	1:20,000 (A3) / 1:10,000 (A4)

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Unit 3B, Bracken Business Park, Bracken Road, Sandford, Dublin 18, Ireland

Tel: +353 1 293 8855

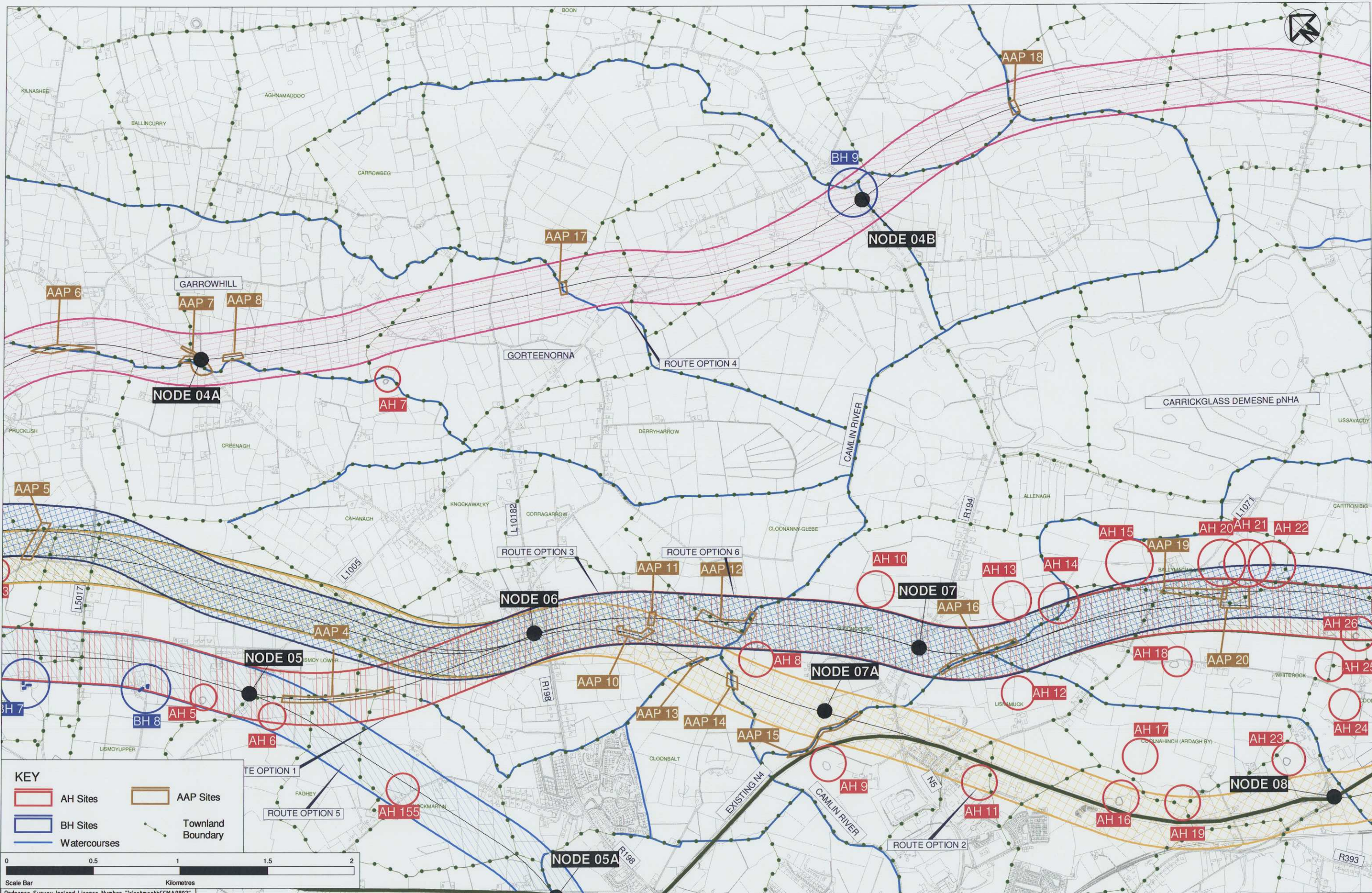
Fax: +353 1 293 8870

Job No: G001038

File No: RFig4.6.1-G001038-TGD-06

Drawing No: RFig 4.6.1

Rev: 06



KEY

- AH Sites
- BH Sites
- Watercourses
- AAP Sites
- Townland Boundary

0 0.5 1 1.5 2
Scale Bar
Kilometres

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

NOTE

	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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N4 MULLINGAR TO LONGFORD (ROOSKY)

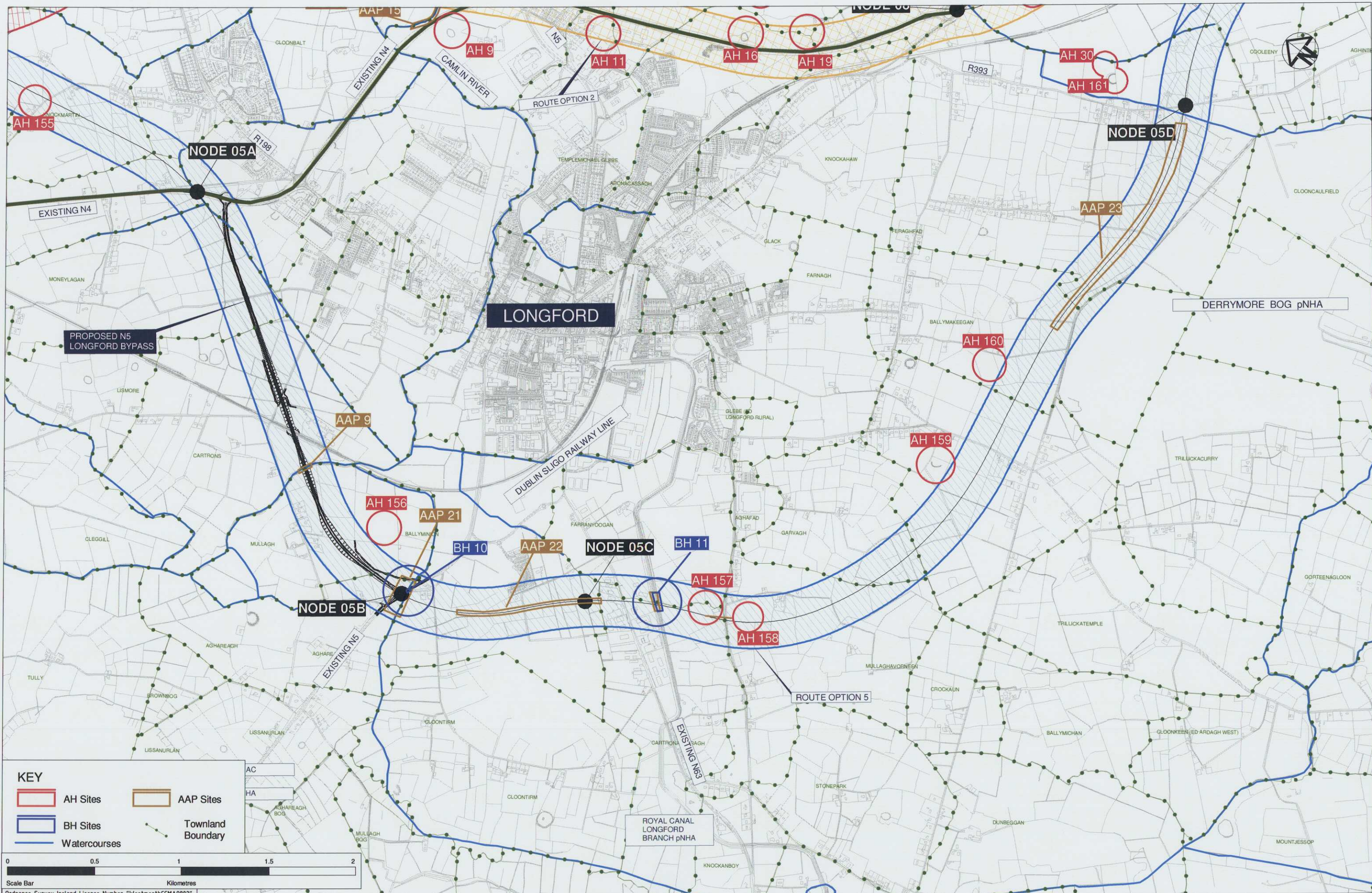
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03	MARCH09	ISSUE FOR PEER REVIEW	FL
02	MARCH09	FINAL ISSUE RCSR	FL
01	FEB09	RCSR FIRST DRAFT	FL
Rev	Date	Description	App'd

Project: N4 MULLINGAR TO LONGFORD (ROOSKY)

Title: CULTURAL HERITAGE DETAIL (Sheet 2 of 8)

HYDER TOBIN CONSULTANTS
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Fax: +353 1 293 8870

Drawn:	P. McAteer	Job No:	GD09038	Rev:	
Checked:	W. Murray	File No:	RFig 4.2-GD09038-TGD-06		
Approved:	M. Farley	Drawing No:			
Date:	FEB09		RFig 4.2		06
Scale:	1:20,000 (A3) / 1:10,000 (A1)				



KEY

AH Sites
 AAP Sites
 BH Sites
 Watercourses
 Townland Boundary

AC
 HA

0 0.5 1 1.5 2
Scale Bar Kilometres

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

NOTE: **KEY TO ROUTE CORRIDOR OPTIONS**

	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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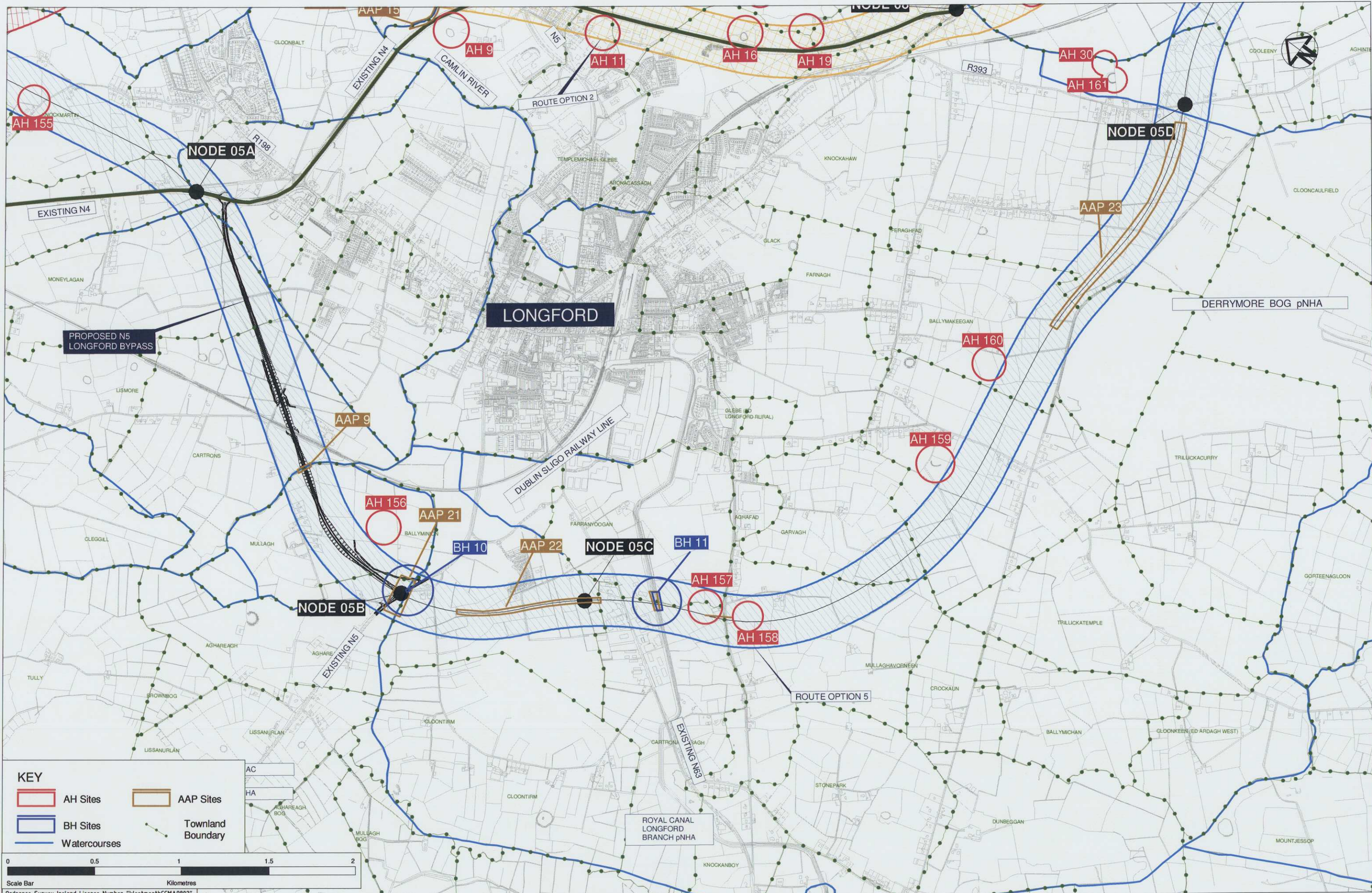
Title: **CULTURAL HERITAGE DETAIL (Sheet 3 of 8)**

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Drawn	Checked	Approved	Date	Scale
P. McAteer	W. Murray	M. Faray	FEB09	1:20,000 (A3) 1:10,000 (A1)

Job No.	File No.	Drawing No.	Rev.
G001038	Rfig4.6.3-G001038-TGD-06	Rfig 4.6.3	06



KEY

- AH Sites
- AAP Sites
- BH Sites
- Watercourses
- Townland Boundary

Scale Bar: 0 to 2 Kilometres

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

ROUTE CORRIDOR OPTION 1
ROUTE CORRIDOR OPTION 2
ROUTE CORRIDOR OPTION 3
ROUTE CORRIDOR OPTION 4
ROUTE CORRIDOR OPTION 5
ROUTE CORRIDOR OPTION 6

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Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

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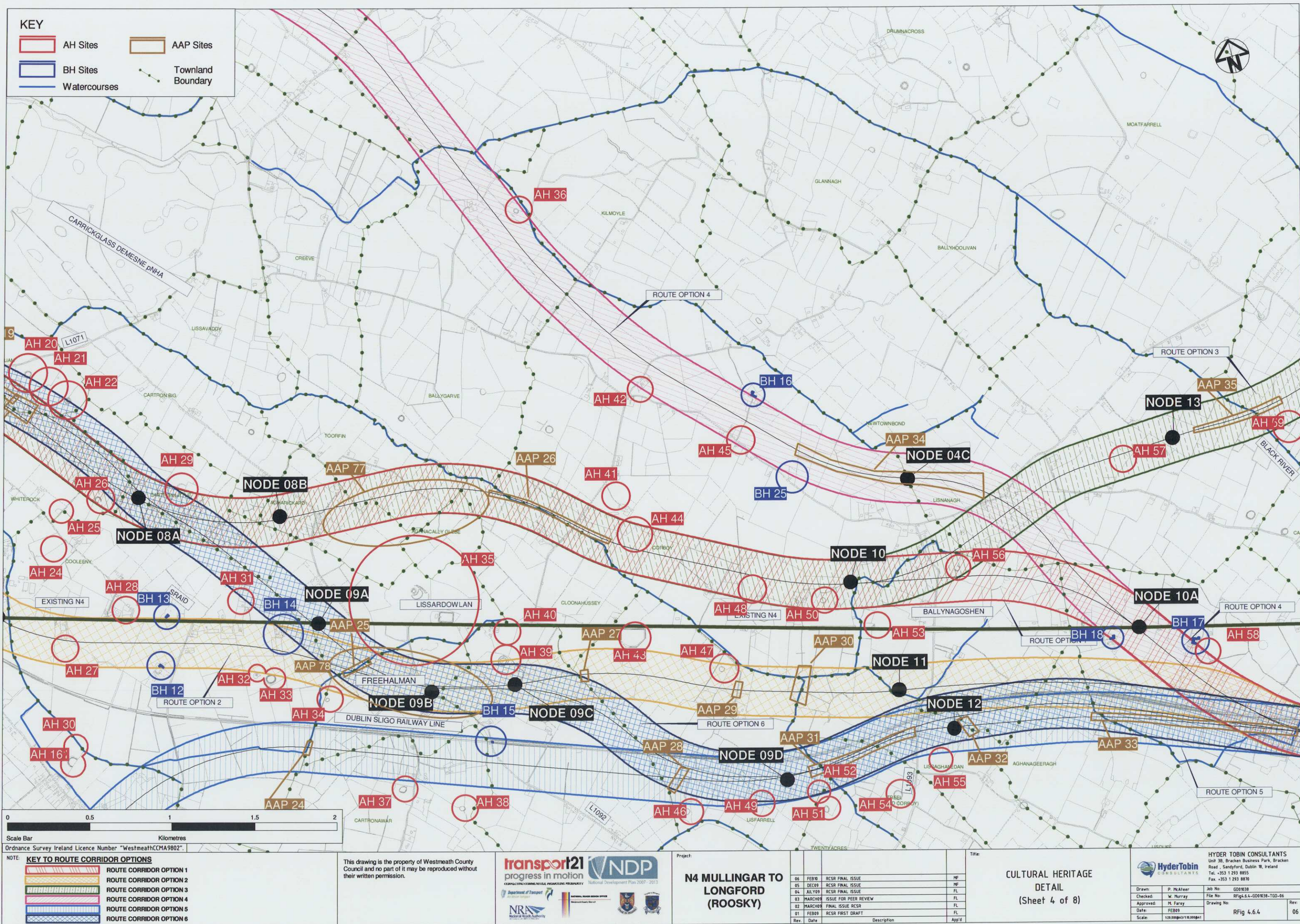
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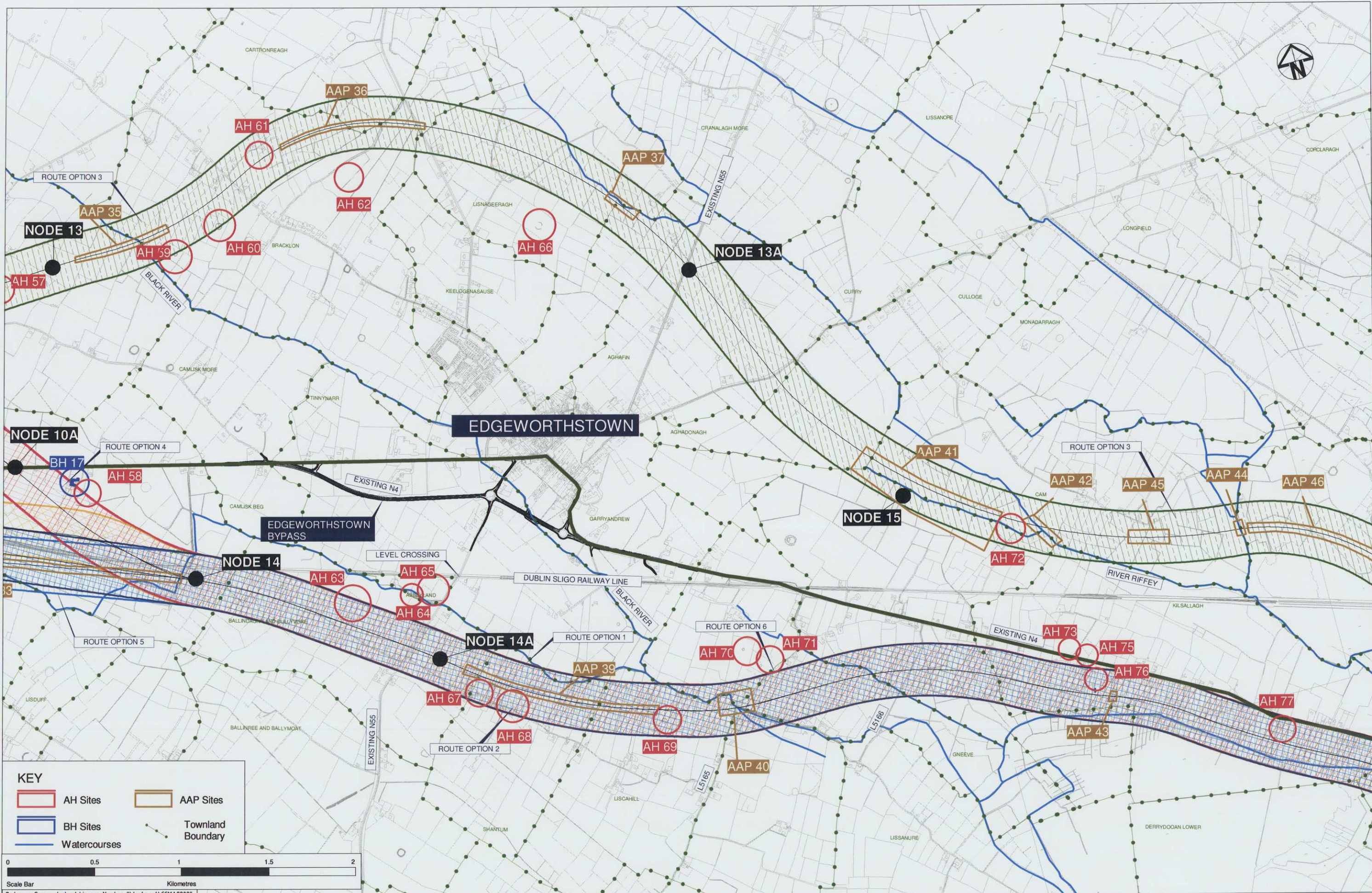
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Unit 3B, Bracken Business Park, Bracken Road, Sandford, Dublin 18, Ireland
Tel: +353 1 293 8855
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Drawn:	P. McAteer	Job No:	G001038
Checked:	W. Murray	File No:	RFig4.6.3-G001038-TGD-06
Approved:	M. Faray	Drawing No:	
Date:	FEB09		
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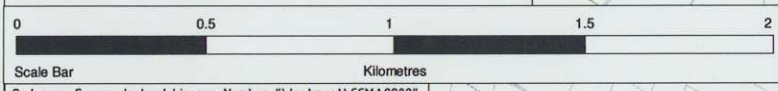
RFig 4.6.3 06





KEY

- AH Sites
- AAP Sites
- BH Sites
- Townland Boundary
- Watercourses



NOTE: **KEY TO ROUTE CORRIDOR OPTIONS**

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

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03	MARCH09	ISSUE FOR PEER REVIEW	FL
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01	FEB09	RCSR FIRST DRAFT	FL

Title: **CULTURAL HERITAGE DETAIL**
(Sheet 5 of 8)

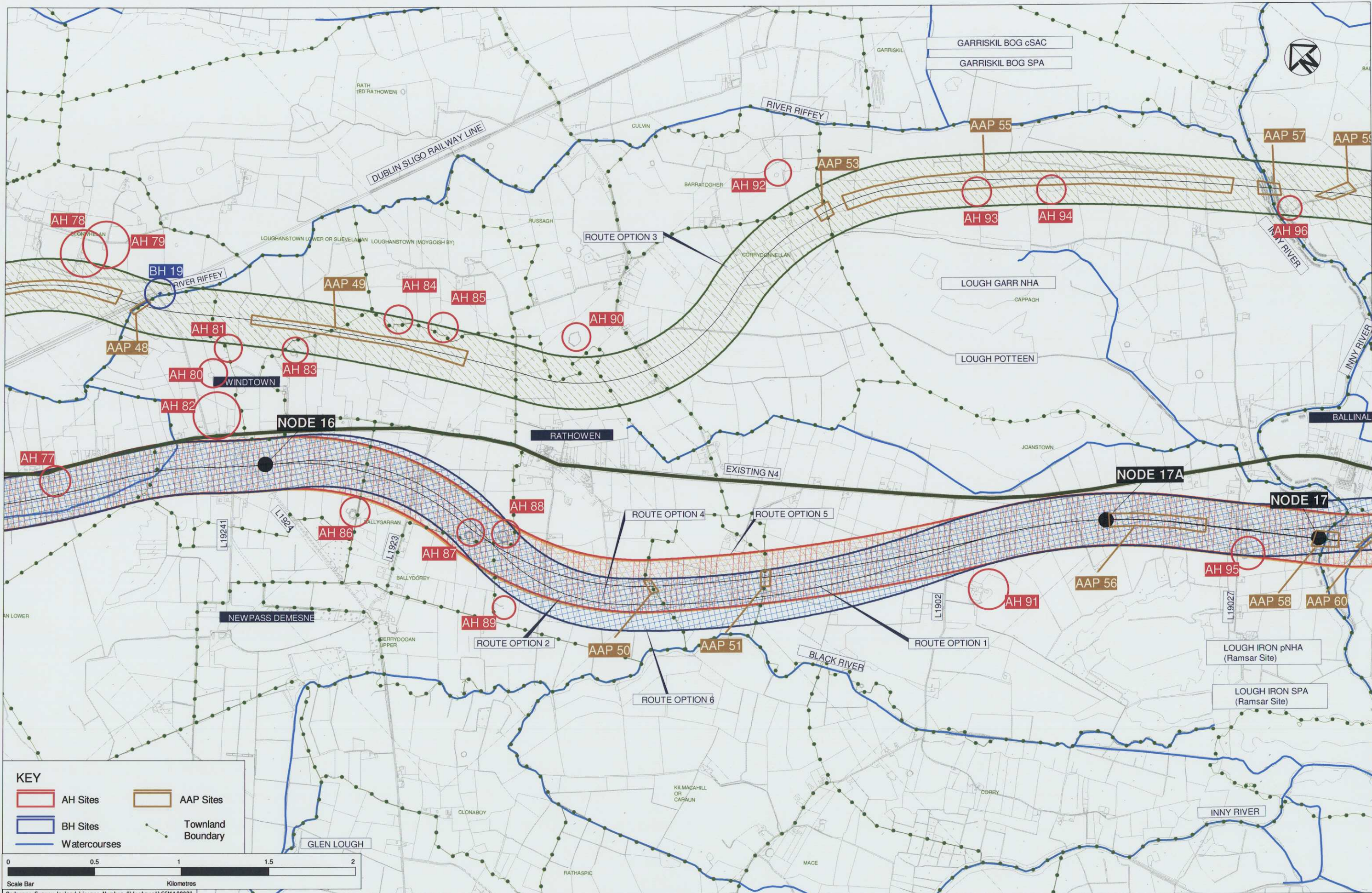
HyderTobin CONSULTANTS

Unit 3B, Bracken Business Park, Bracken Road, Sandyford, Dublin 18, Ireland
Tel. +353 1 293 8855
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Drawn: P. McAteer
Checked: W. Murray
Approved: M. Farley
Date: FEB09
Scale: 1:20,000 (A3) / 1:10,000 (A4)

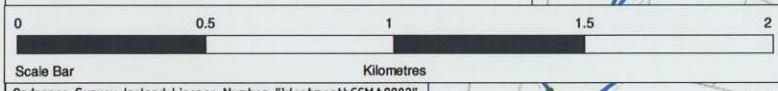
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Drawing No:
RFig 4.6.5

Rev: 06



KEY

- AH Sites
- AAP Sites
- BH Sites
- Watercourses
- Townland Boundary



Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

NOTE: **KEY TO ROUTE CORRIDOR OPTIONS**

[Pattern]	ROUTE CORRIDOR OPTION 1
[Pattern]	ROUTE CORRIDOR OPTION 2
[Pattern]	ROUTE CORRIDOR OPTION 3
[Pattern]	ROUTE CORRIDOR OPTION 4
[Pattern]	ROUTE CORRIDOR OPTION 5
[Pattern]	ROUTE CORRIDOR OPTION 6

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National Road Development Office

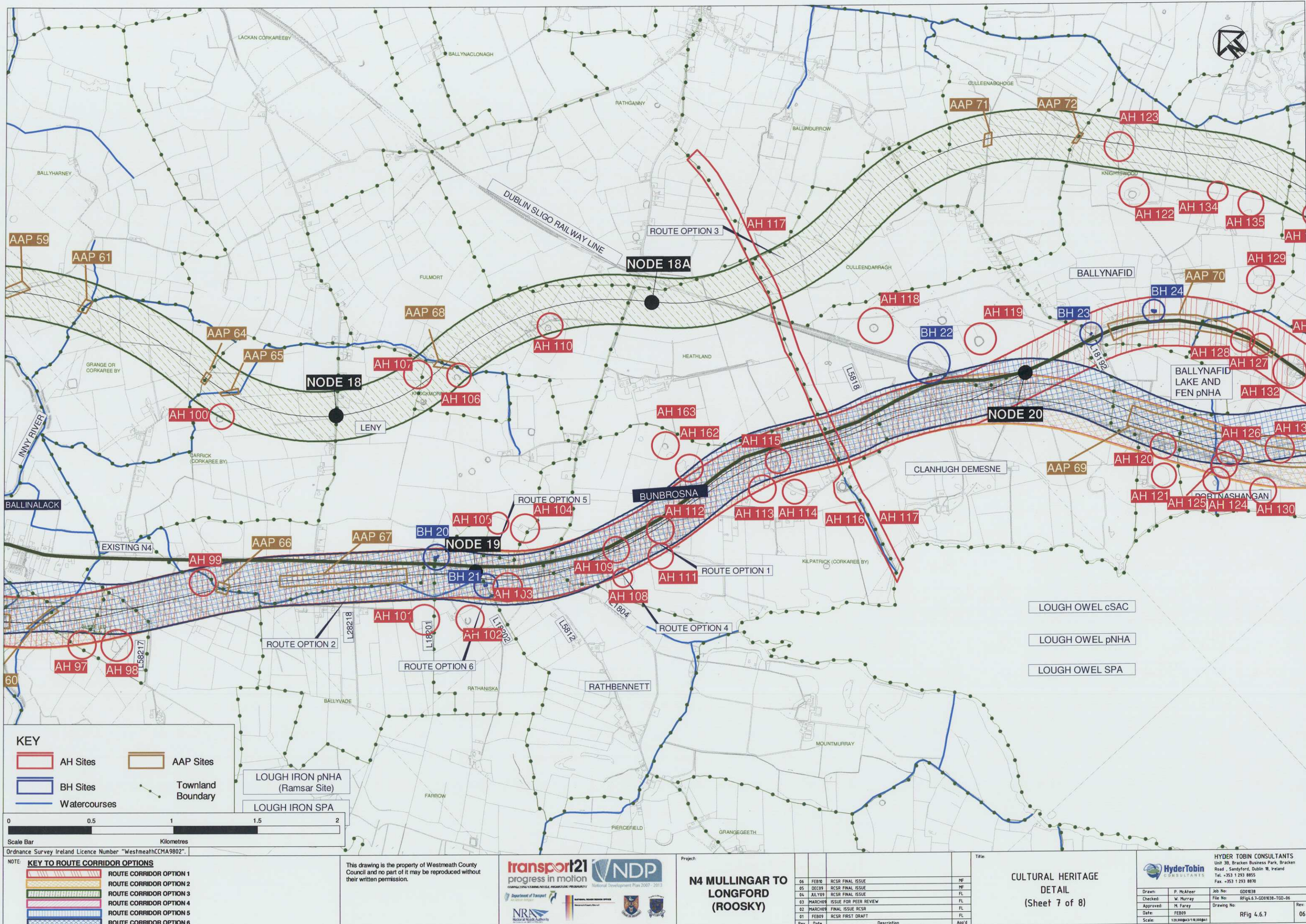
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Title: **CULTURAL HERITAGE DETAIL**
(Sheet 6 of 8)

HyderTobin CONSULTANTS
Unit 3B, Bracken Business Park, Bracken Road, Sandford, Dublin 18, Ireland
Tel: +353 1 293 8855
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Drawn:	P. McAteer	Job No:	G001038
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KEY

- AH Sites
- BH Sites
- AAP Sites
- Townland Boundary
- Watercourses
- LOUGH IRON pNHA (Ramsar Site)
- LOUGH IRON SPA

KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

Scale Bar: 0 0.5 1 1.5 2 Kilometres

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NRA National Roads Authority

Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

Rev.	Date	Description	App'd
06	FEB10	RCSR FINAL ISSUE	MF
05	DEC09	RCSR FINAL ISSUE	MF
04	JUL10	RCSR FINAL ISSUE	FL
03	MARCH09	ISSUE FOR PEER REVIEW	FL
02	MARCH09	FINAL ISSUE RCSR	FL
01	FEB09	RCSR FIRST DRAFT	FL

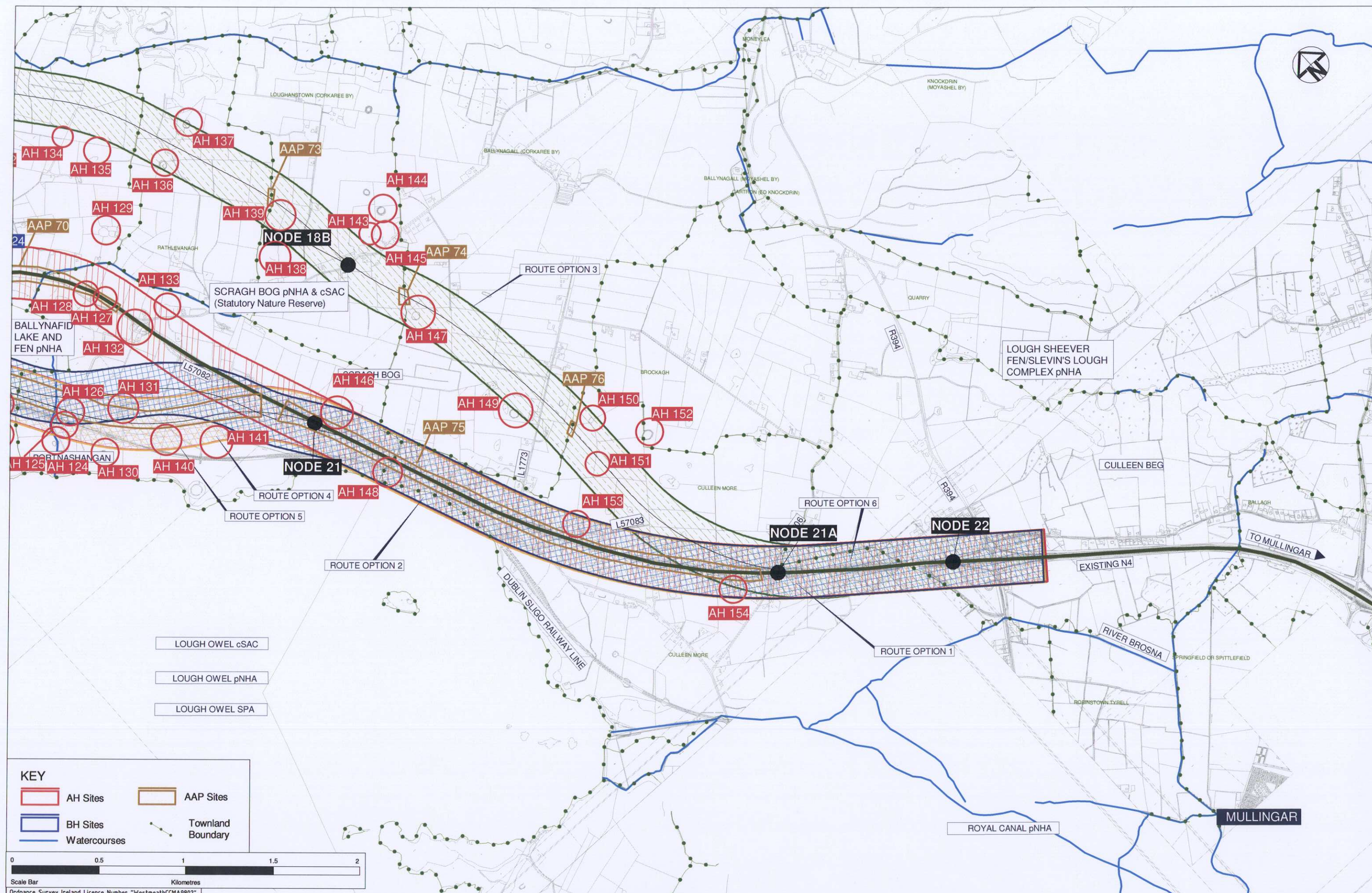
Title: **CULTURAL HERITAGE DETAIL**
(Sheet 7 of 8)

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Unit 38, Bracken Business Park, Bracken Road, Sandford, Dublin 18, Ireland
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Fax: +353 1 293 8870

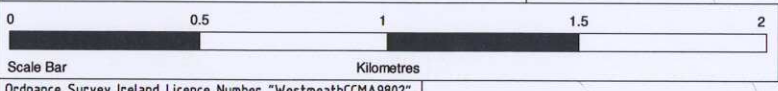
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Checked: W. Murray	File No: RFig4.6.7-G061038-TGD-06
Approved: M. Farley	Drawing No:
Date: FEB09	Rev:
Scale: 1:25,000 @ A3 / 1:10,000 @ A1	RFig 4.6.7

06



KEY

	AH Sites		AAP Sites
	BH Sites		Townland Boundary
	Watercourses		



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NOTE: KEY TO ROUTE CORRIDOR OPTIONS

	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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06	FEB09	RCSR FINAL ISSUE	MF
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01	FEB09	RCSR FIRST DRAFT	FL

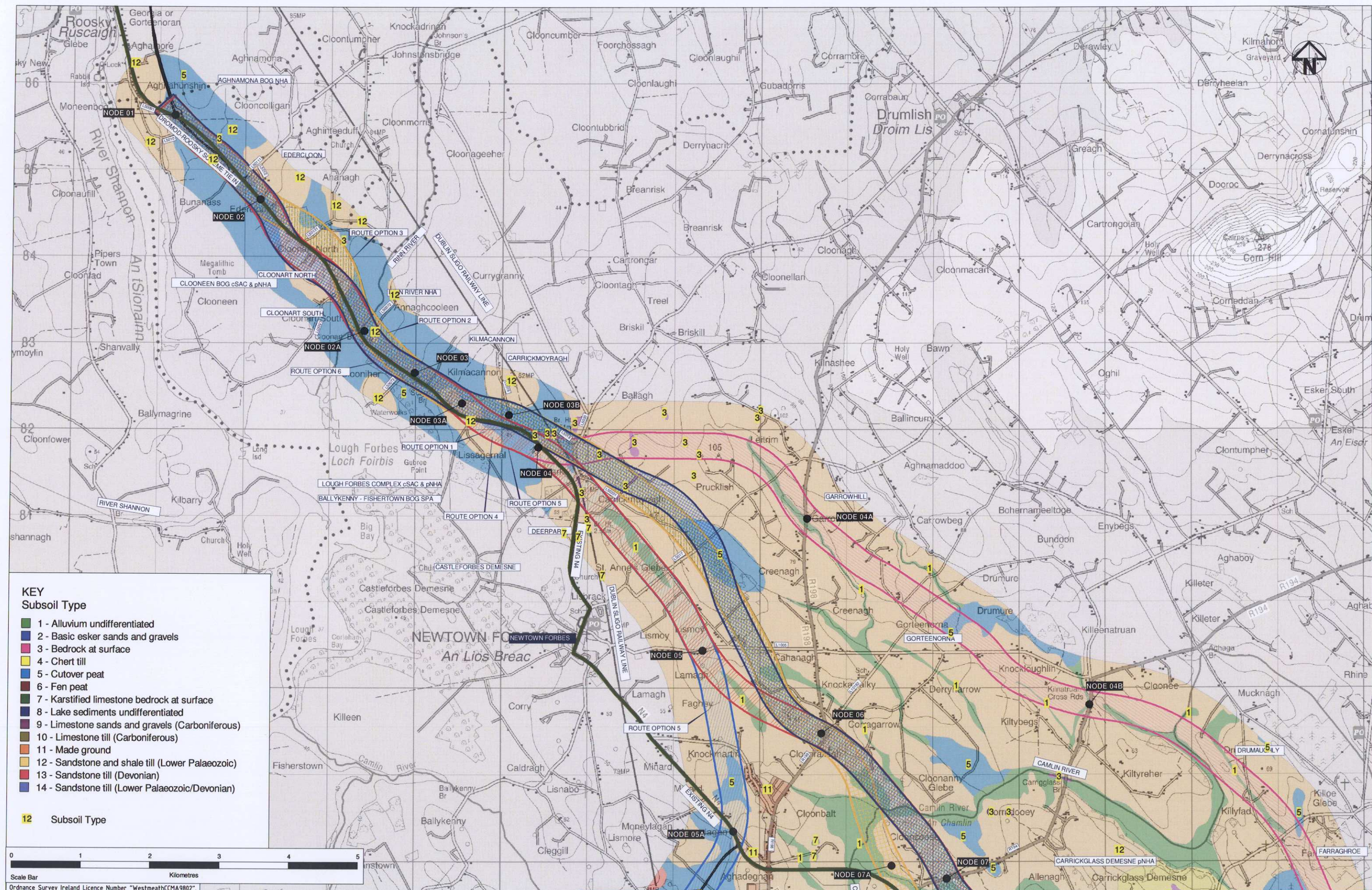
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Checked: W. Murray
Approved: M. Farley
Date: FEB09
Scale: 1:20,000 (p1) 1:10,000 (p1)

Job No: G001038
File No: Rfig4.6.8-G001038-TG0-04
Drawing No:
Rev: 06

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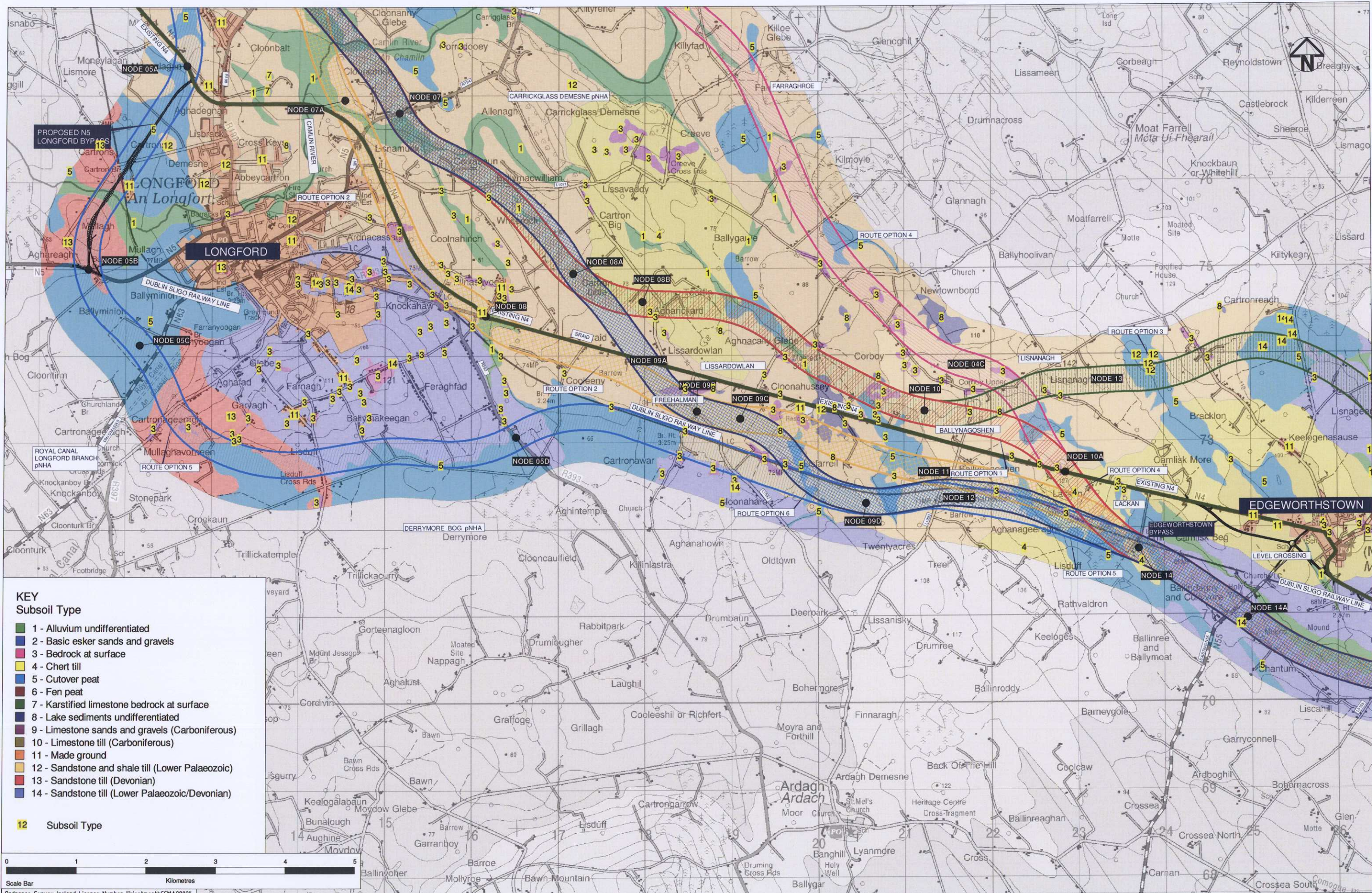
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02	MARCH09	FINAL ISSUE RCSR	FL
01	FEB09	RCSR FIRST DRAFT	FL

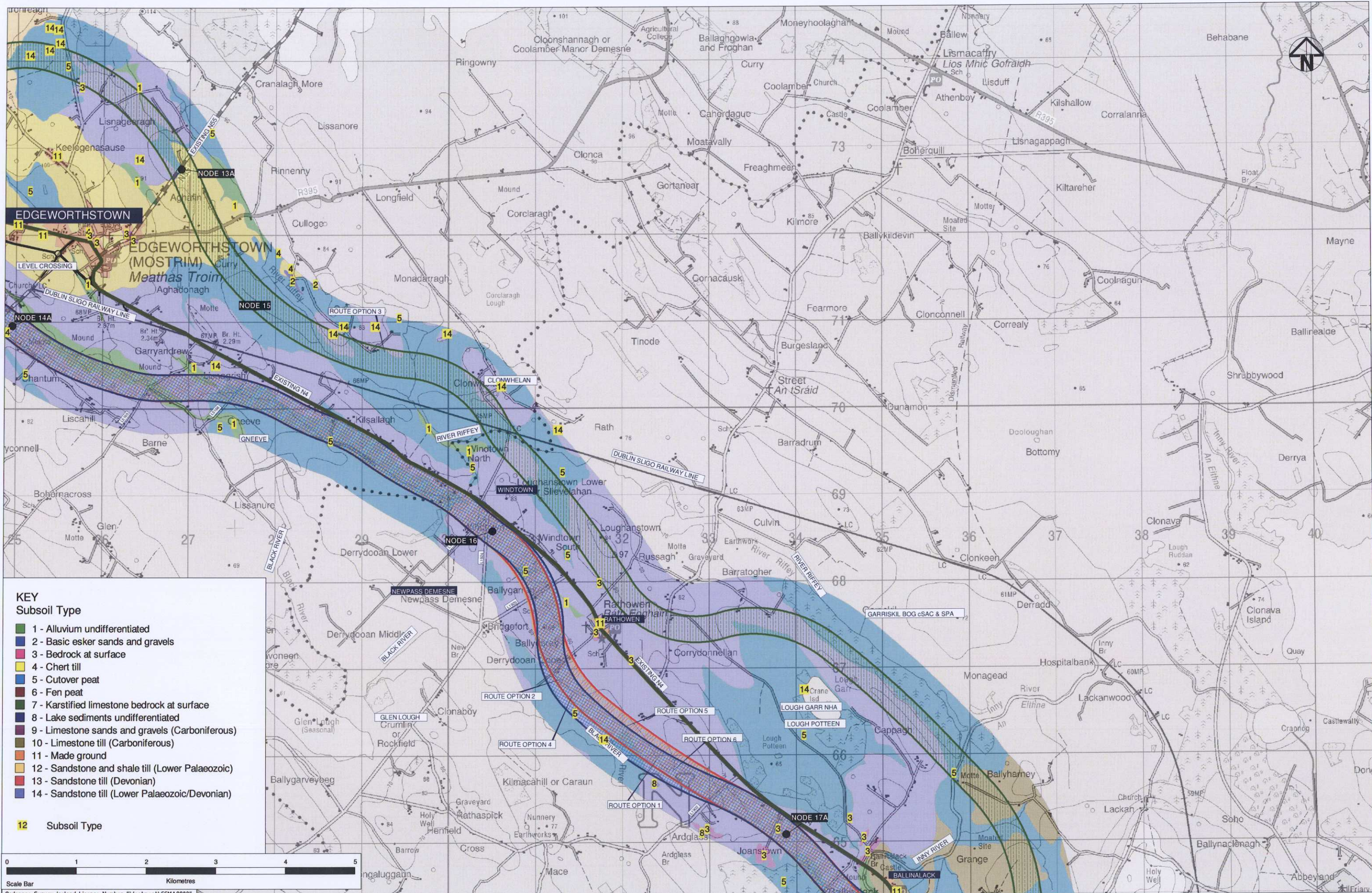
SUBSOILS OVERVIEW (Sheet 1 of 4)



Drawn:	P. McAker	Job No:	GD09038
Checked:	M. Murray	File No:	RFig 4.1-1
Approved:	M. Farley	Drawing No:	RFig 4.1.1
Date:	FEB09	Rev:	06
Scale:	1:10,000		

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KEY
Subsoil Type

- 1 - Alluvium undifferentiated
- 2 - Basic esker sands and gravels
- 3 - Bedrock at surface
- 4 - Chert till
- 5 - Cutover peat
- 6 - Fen peat
- 7 - Karstified limestone bedrock at surface
- 8 - Lake sediments undifferentiated
- 9 - Limestone sands and gravels (Carboniferous)
- 10 - Limestone till (Carboniferous)
- 11 - Made ground
- 12 - Sandstone and shale till (Lower Palaeozoic)
- 13 - Sandstone till (Devonian)
- 14 - Sandstone till (Lower Palaeozoic/Devonian)

12 Subsoil Type

012345

Scale Bar

Kilometres

NOTE

ROUTE CORRIDOR OPTION 1

ROUTE CORRIDOR OPTION 2

ROUTE CORRIDOR OPTION 3

ROUTE CORRIDOR OPTION 4

ROUTE CORRIDOR OPTION 5

ROUTE CORRIDOR OPTION 6

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Project: N4 MULLINGAR TO LONGFORD (ROOSKY)			
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04	MAY 09	RCSR FINAL ISSUE	FL
03	MARCH 09	ISSUE FOR PEER REVIEW	FL
02	MARCH 09	FINAL ISSUE RCSR	FL
01	FEB 09	RCSR FIRST DRAFT	FL
Rev.	Date	Description	App'd

SUBSOILS OVERVIEW

(Sheet 3 of 4)

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Drawn: P. McAteer

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Approved: M. Farley

Date: FEB 09

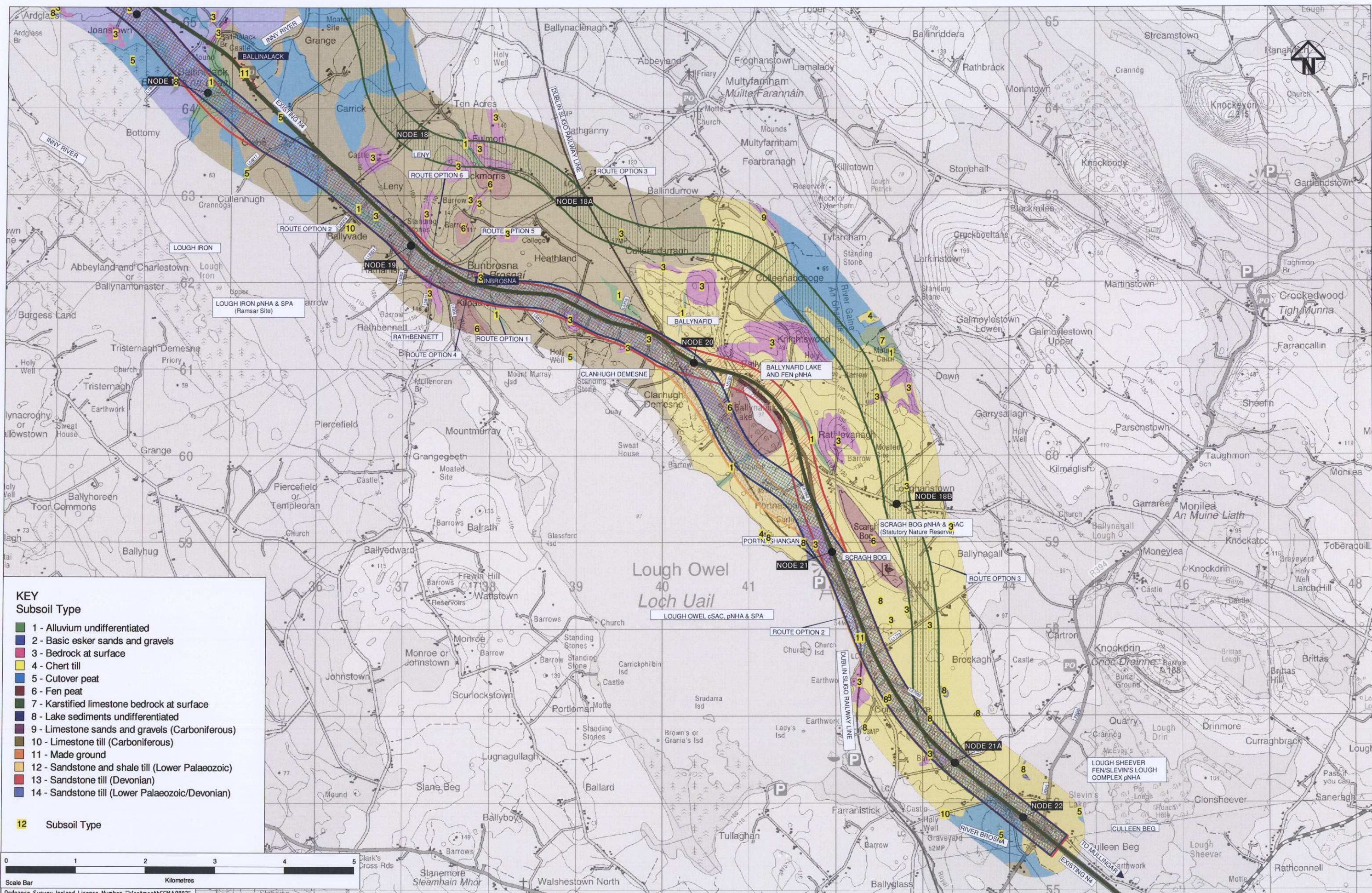
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Job No: G000338

File No: RFig4.13-G000338-TGD-06

Drawing No: RFig 4.7.3

Rev: 06



KEY
Subsoil Type

1 - Alluvium undifferentiated

2 - Basic esker sands and gravels

3 - Bedrock at surface

4 - Chert till

5 - Cutover peat

6 - Fen peat

7 - Karstified limestone bedrock at surface

8 - Lake sediments undifferentiated

9 - Limestone sands and gravels (Carboniferous)

10 - Limestone till (Carboniferous)

11 - Made ground

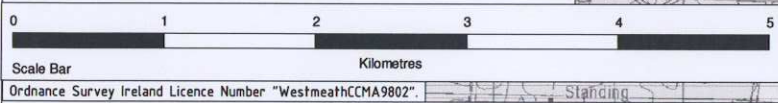
12 - Sandstone and shale till (Lower Palaeozoic)

13 - Sandstone till (Devonian)

14 - Sandstone till (Lower Palaeozoic/Devonian)

12

 Subsoil Type



NOTE

	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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Project: N4 MULLINGAR TO LONGFORD (ROOSKY)			Title: SUBSOILS OVERVIEW (Sheet 4 of 4)		
06	FEB09	RCSR FINAL ISSUE	MF		
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01	FEB09	RCSR FIRST DRAFT	FL		
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Checked: M. Murray

Approved: M. Farley

Date: FEB09

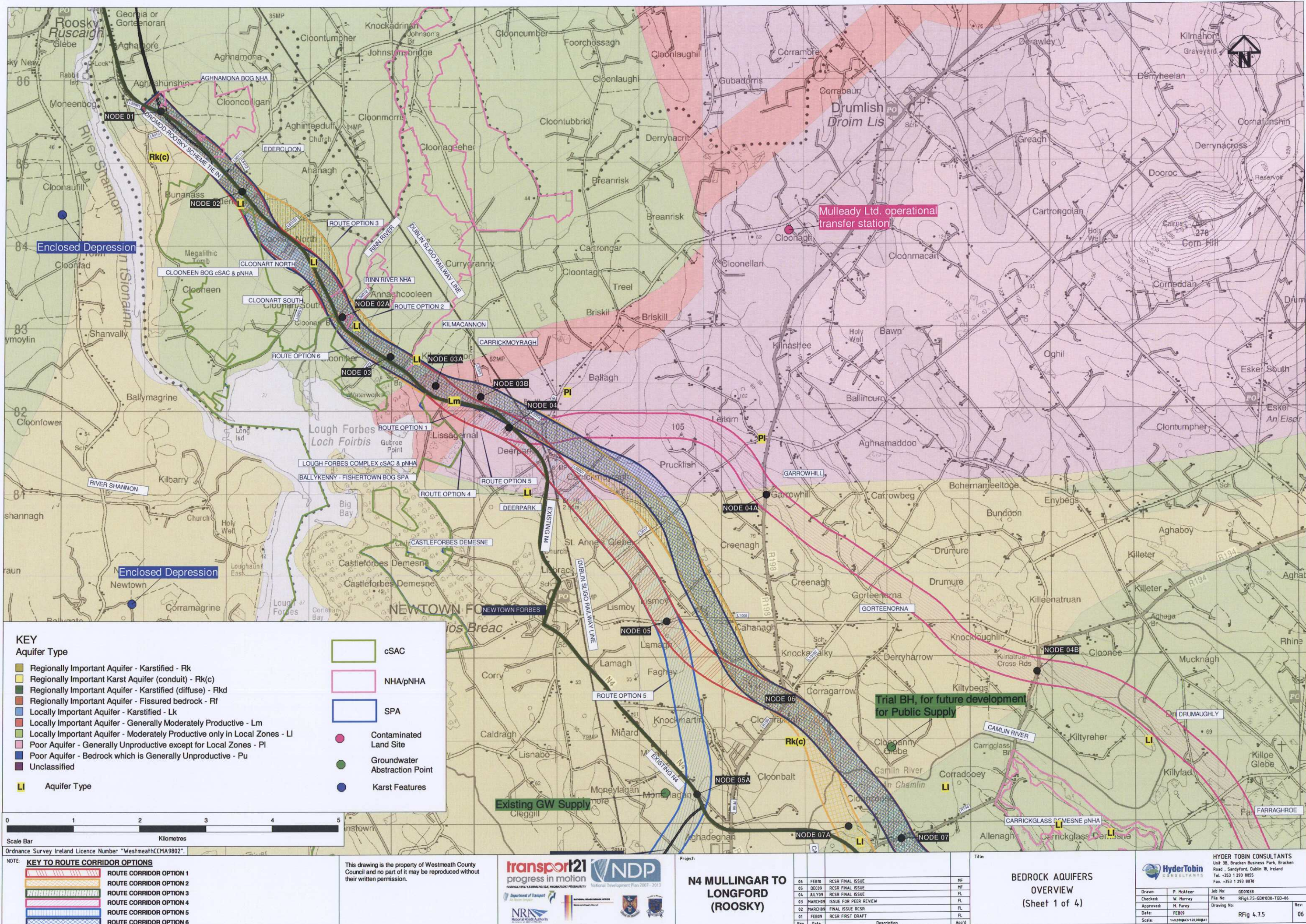
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File No: RFP-74-G00039-TGD-06

Drawing No: RFig 4.7.4

Rev: 06



KEY
Aquifer Type

- Regionally Important Aquifer - Karstified - Rk
- Regionally Important Karst Aquifer (conduit) - Rk(c)
- Regionally Important Aquifer - Karstified (diffuse) - Rkd
- Regionally Important Aquifer - Fissured bedrock - Rf
- Locally Important Aquifer - Karstified - Lk
- Locally Important Aquifer - Generally Moderately Productive - Lm
- Locally Important Aquifer - Moderately Productive only in Local Zones - LI
- Poor Aquifer - Generally Unproductive except for Local Zones - PI
- Poor Aquifer - Bedrock which is Generally Unproductive - Pu
- Unclassified

- cSAC
- NHA/pNHA
- SPA
- Contaminated Land Site
- Groundwater Abstraction Point
- Karst Features

LI Aquifer Type

0 1 2 3 4 5
Kilometres

Scale Bar

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

NOTE: **KEY TO ROUTE CORRIDOR OPTIONS**

	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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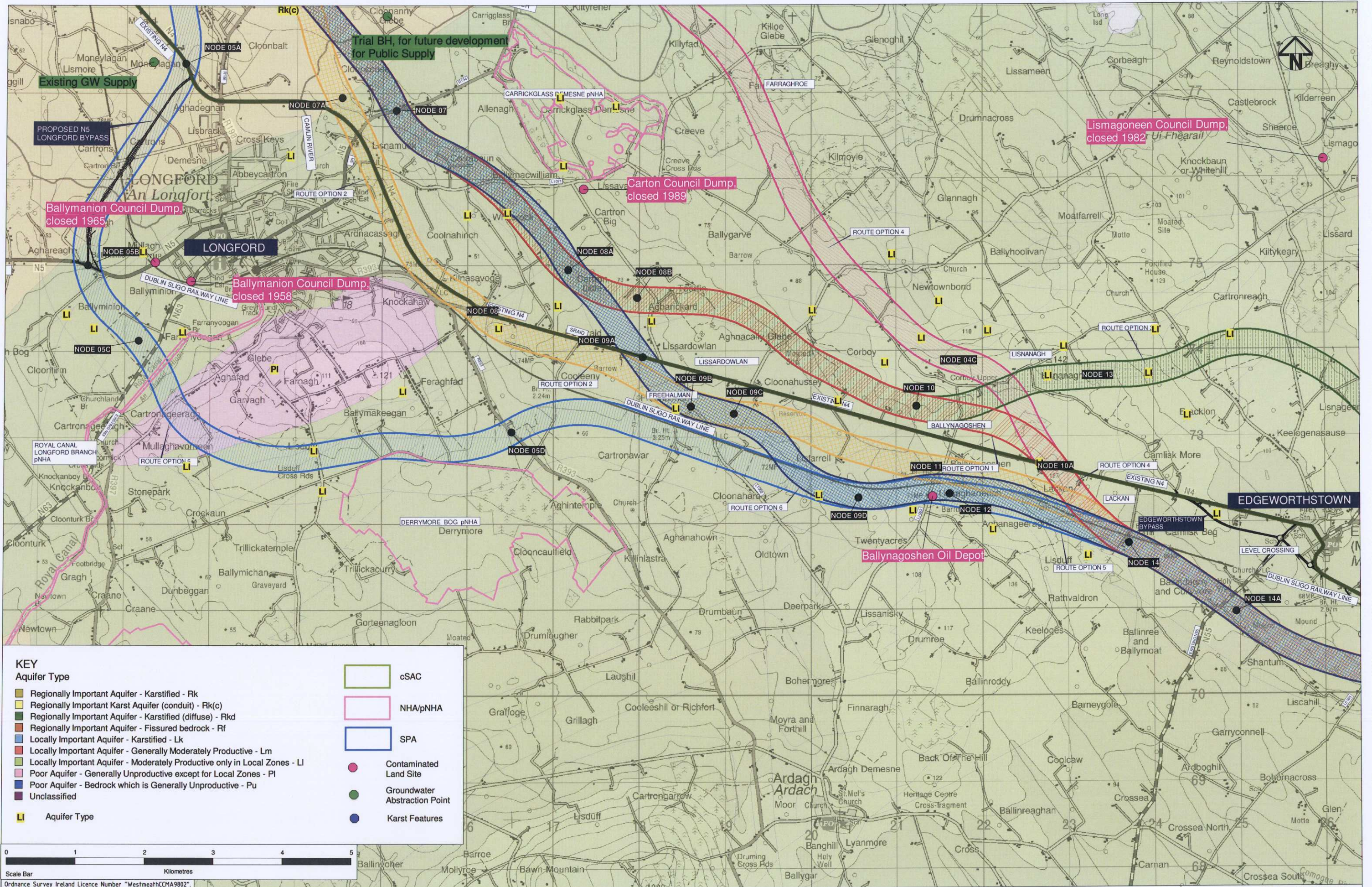
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04	JUL10	RCSR FINAL ISSUE	FL
03	MARCH09	ISSUE FOR PEER REVIEW	FL
02	MARCH09	FINAL ISSUE RCSR	FL
01	FEB09	RCSR FIRST DRAFT	FL

Title: **BEDROCK AQUIFERS OVERVIEW (Sheet 1 of 4)**

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Approved: M. Farley
Date: FEB09
Scale: 1:60,000 (A3) 1:20,000 (A1)

Job No: G001038
File No: RFig4.15-G001038-TGD-06
Drawing No: RFig 4.7.5
Rev: 06

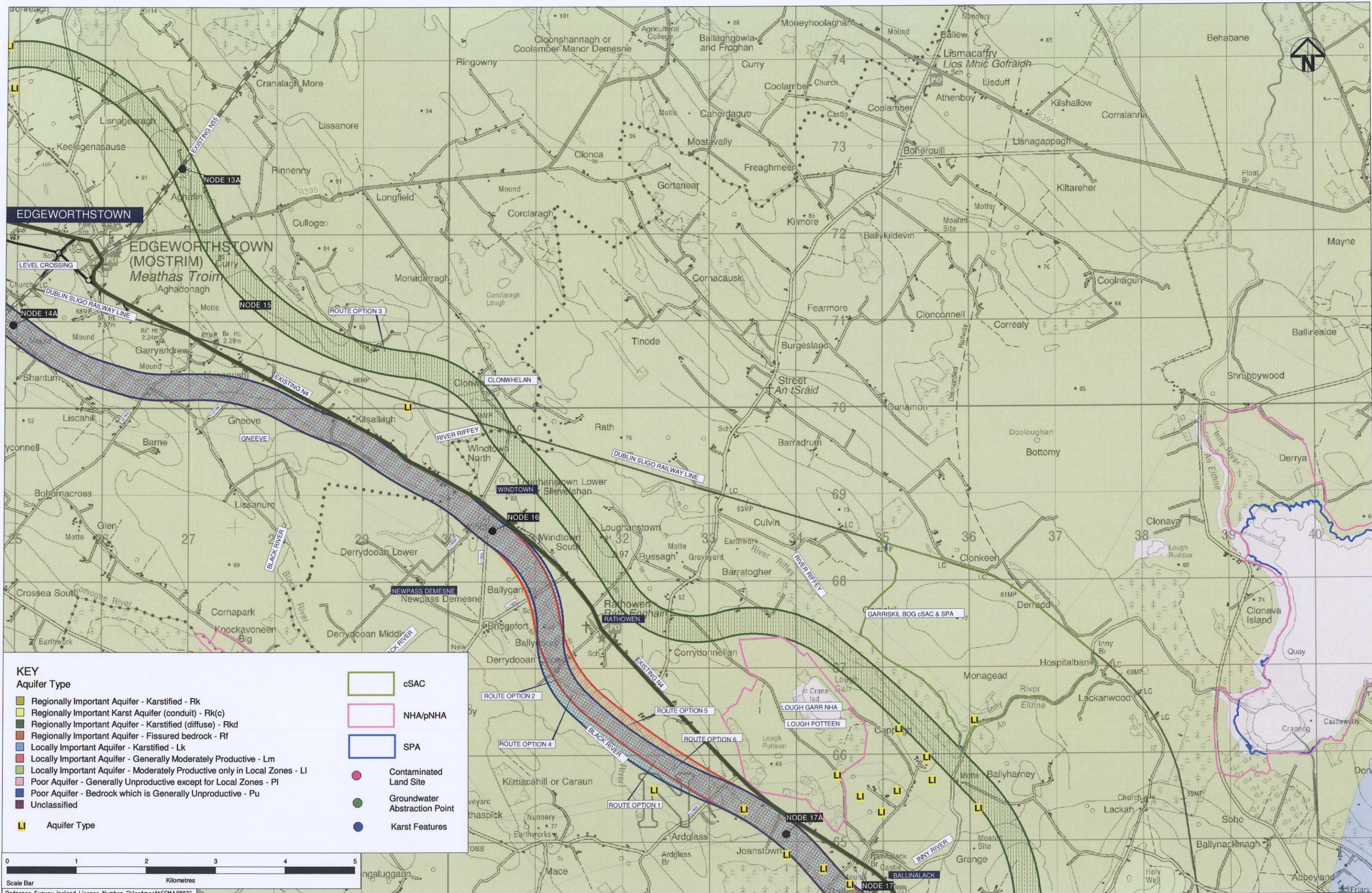


KEY
Aquifer Type

- Regionally Important Aquifer - Karstified - Rk
- Regionally Important Karst Aquifer (conduit) - Rk(c)
- Regionally Important Aquifer - Karstified (diffuse) - Rkd
- Regionally Important Aquifer - Fissured bedrock - Rf
- Locally Important Aquifer - Karstified - Lk
- Locally Important Aquifer - Generally Moderately Productive - Lm
- Locally Important Aquifer - Moderately Productive only in Local Zones - LI
- Poor Aquifer - Generally Unproductive except for Local Zones - PI
- Poor Aquifer - Bedrock which is Generally Unproductive - Pu
- Unclassified

Li Aquifer Type

- cSAC
- NHA/pNHA
- SPA
- Contaminated Land Site
- Groundwater Abstraction Point
- Karst Features



KEY

Aquifer Type

- Regionally Important Aquifer - Karstified - Rk
- Regionally Important Karst Aquifer (conduit) - Rk(c)
- Regionally Important Aquifer - Karstified (diffuse) - Rkd
- Regionally Important Aquifer - Fissured bedrock - Rf
- Locally Important Aquifer - Karstified - Lk
- Locally Important Aquifer - Generally Moderately Productive - Lm
- Locally Important Aquifer - Moderately Productive only in Local Zones - LI
- Poor Aquifer - Generally Unproductive except for Local Zones - PI
- Poor Aquifer - Bedrock which is Generally Unproductive - Pu
- Unclassified

LI Aquifer Type

- cSAC
- NHA/pNHA
- SPA
- Contaminated Land Site
- Groundwater Abstraction Point
- Karst Features



NOTE: **KEY TO ROUTE CORRIDOR OPTIONS**

	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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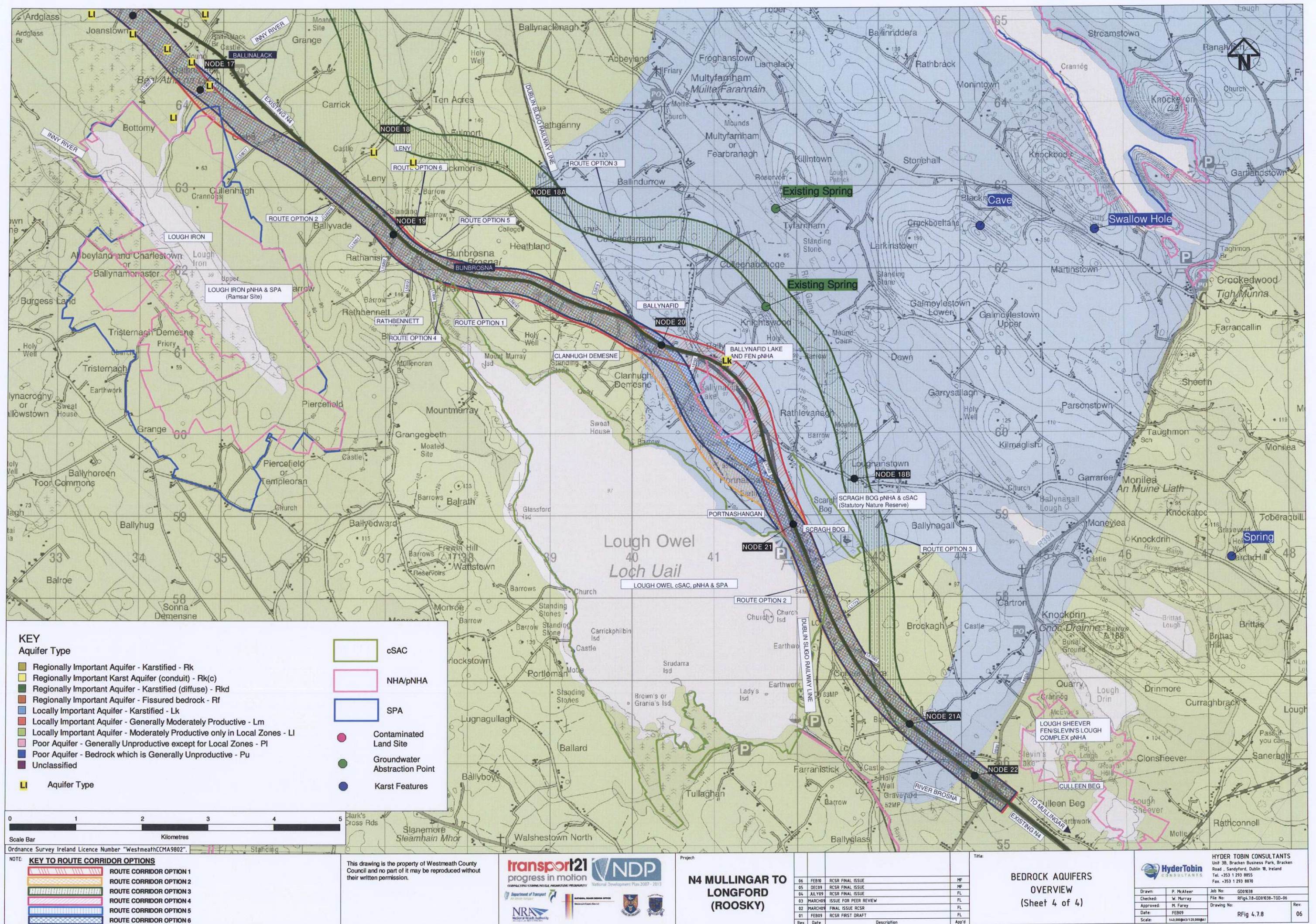
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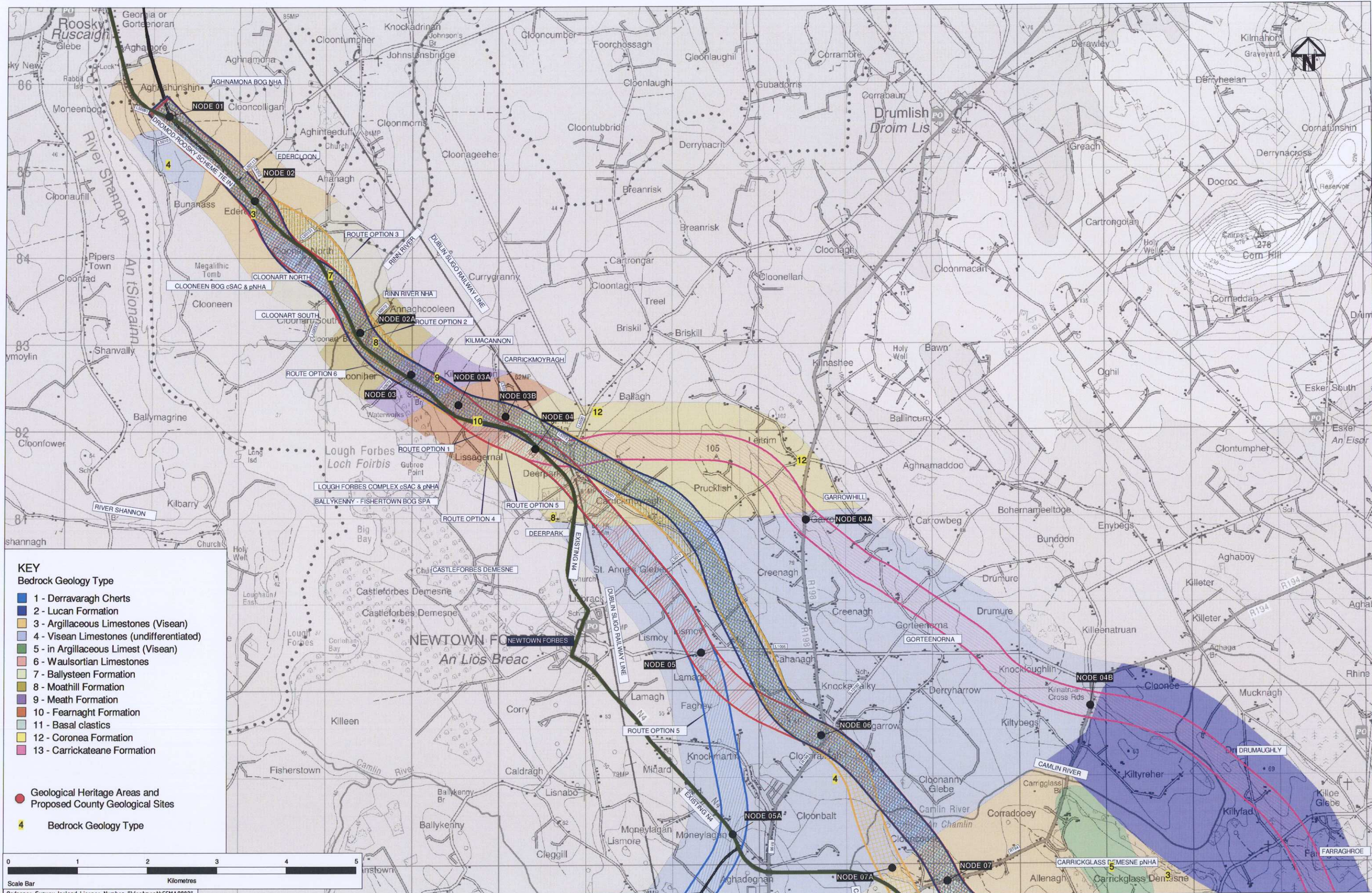
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04 JAN 10	RCSR FINAL ISSUE	FL
03 MAR 10	ISSUE FOR PEER REVIEW	FL
02 MAR 10	FINAL ISSUE RCSR	FL
01 FEB 09	RCSR FIRST DRAFT	FL
Rev.	Date	Description

Title: **BEDROCK AQUIFERS OVERVIEW**
(Sheet 3 of 4)

Drawn: P. McAteer	Job No: G001038
Checked: W. Murray	File No: RFig 4.7.7-G001038-TG0-06
Approved: M. Farley	Drawing No: RFig 4.7.7
Date: FEB 09	Rev: 06
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KEY
Bedrock Geology Type
1 - Derravaragh Cherts
2 - Lucan Formation
3 - Argillaceous Limestones (Visean)
4 - Visean Limestones (undifferentiated)
5 - in Argillaceous Limest (Visean)
6 - Waulsortian Limestones
7 - Ballysteen Formation
8 - Moathill Formation
9 - Meath Formation
10 - Fearnaght Formation
11 - Basal clastics
12 - Coronea Formation
13 - Carrickateane Formation

Geological Heritage Areas and Proposed County Geological Sites

Bedrock Geology Type

Scale Bar
Kilometres

Ordnance Survey Ireland Licence Number "WestmeathCMA9802".

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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N4 MULLINGAR TO LONGFORD (ROSKY)

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Rev.	Date	Description	App'd

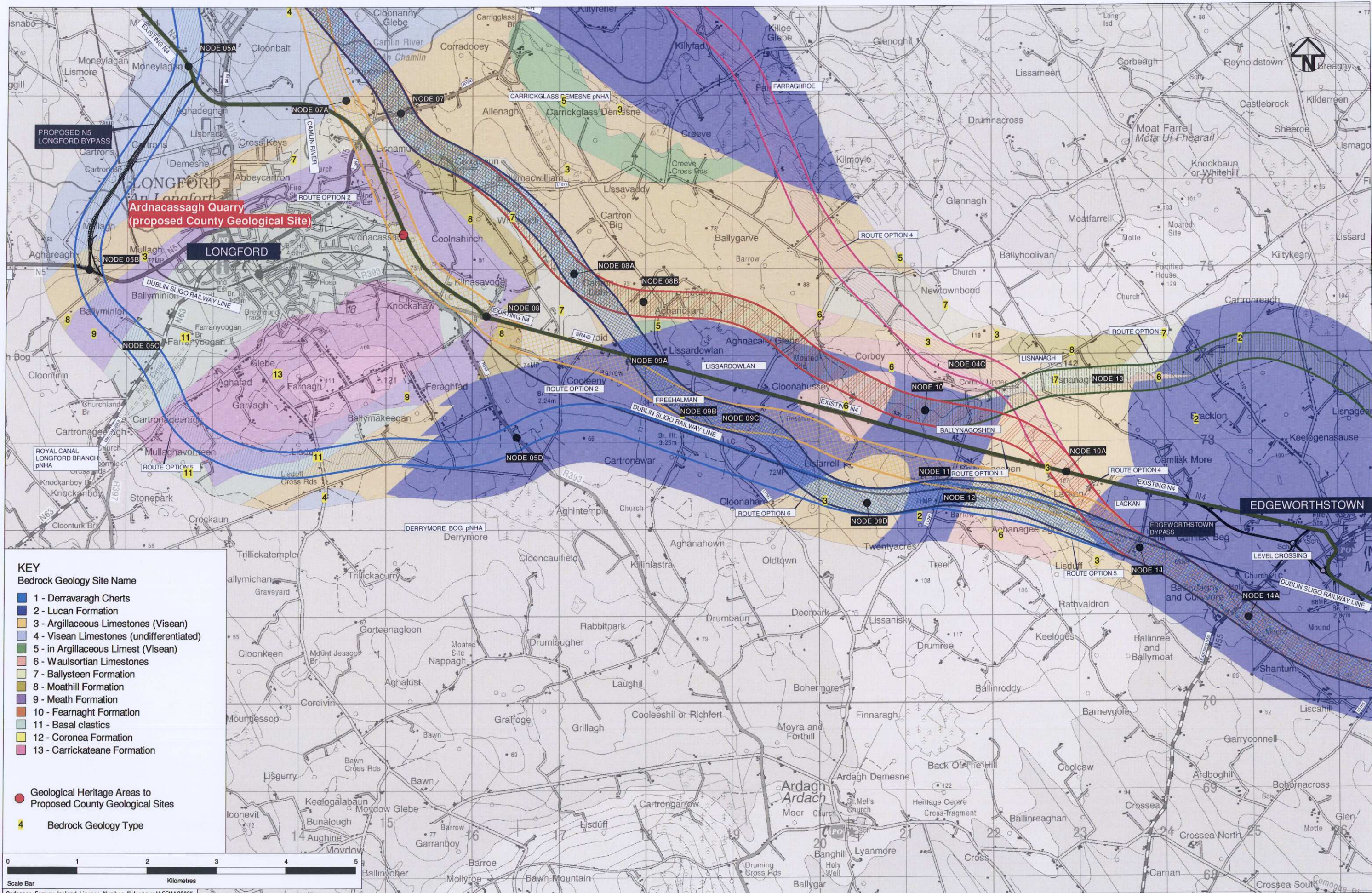
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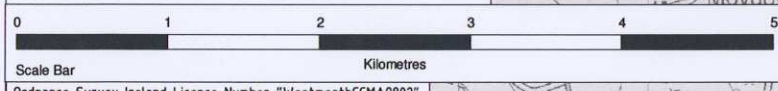
BEDROCK GEOLOGY OVERVIEW
(Sheet 1 of 4)

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Checked:	W. Murray	File No:	RFig1.19-GD01038-TGD-06
Approved:	M. Farley	Drawing No:	
Date:	FEB09	Rev:	
Scale:	1:40,000 (A3) 1:20,000 (A1)	RFig 4.7.9	06



- KEY**
- Bedrock Geology Site Name**
- 1 - Derravaragh Cherts
 - 2 - Lucan Formation
 - 3 - Argillaceous Limestones (Visean)
 - 4 - Visean Limestones (undifferentiated)
 - 5 - in Argillaceous Limest (Visean)
 - 6 - Waulsortian Limestones
 - 7 - Ballysteen Formation
 - 8 - Moathill Formation
 - 9 - Meath Formation
 - 10 - Fearnaght Formation
 - 11 - Basal clastics
 - 12 - Coronea Formation
 - 13 - Carrickateane Formation
- Geological Heritage Areas to Proposed County Geological Sites
- 4 Bedrock Geology Type



NOTE: KEY TO ROUTE CORRIDOR OPTIONS

	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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05	DEC09	RCSR FINAL ISSUE	FL
04	JUL10	RCSR FINAL ISSUE	FL
03	MARCH09	ISSUE FOR PEER REVIEW	FL
02	MARCH09	FINAL ISSUE RCSR	FL
01	FEB09	RCSR FIRST DRAFT	FL

Title: **BEDROCK GEOLOGY OVERVIEW (Sheet 2 of 4)**

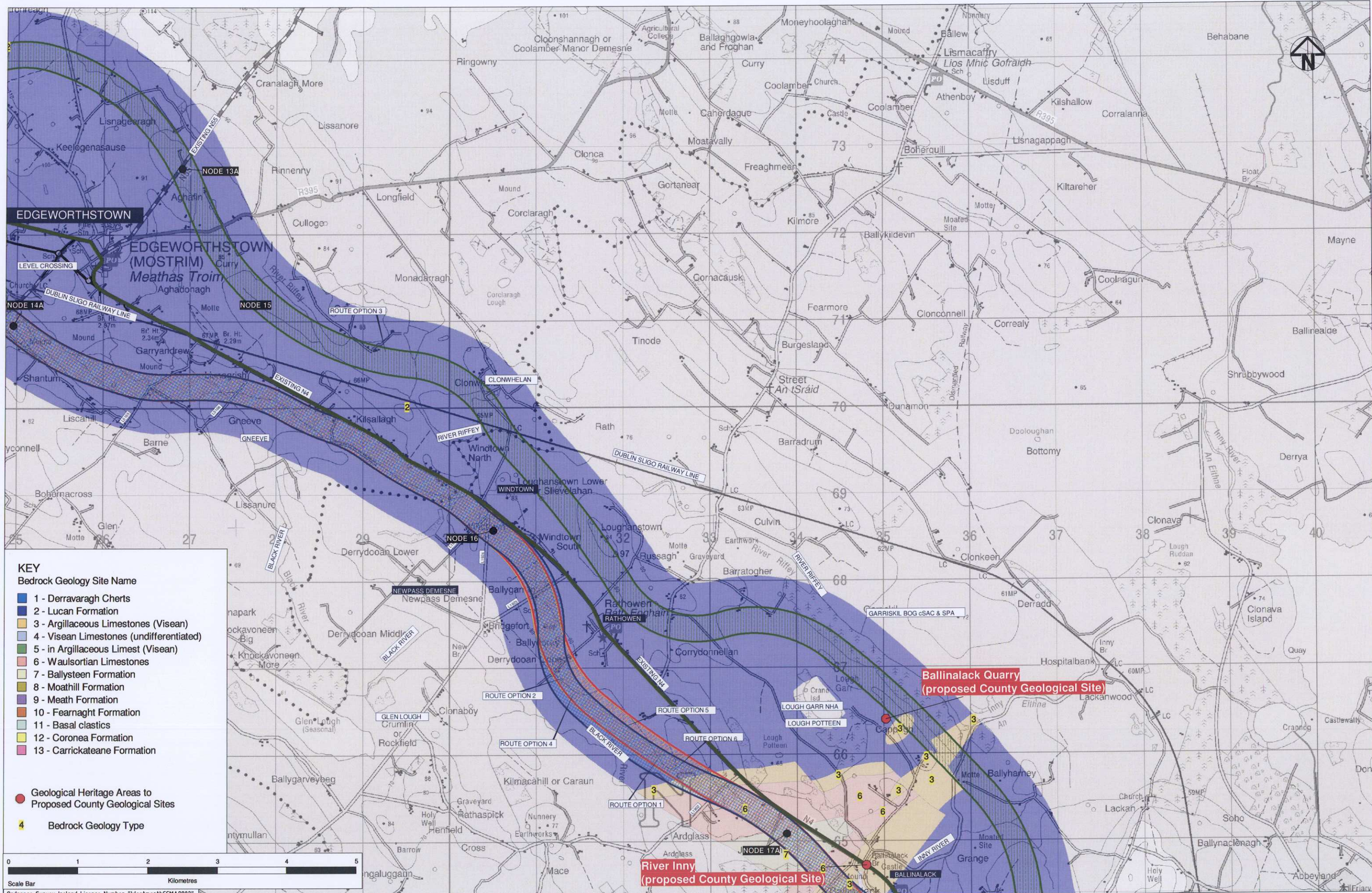
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Approved:	M. Farley	Drawing No:	
Date:	FEB09		
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Rev: 06



KEY

Bedrock Geology Site Name

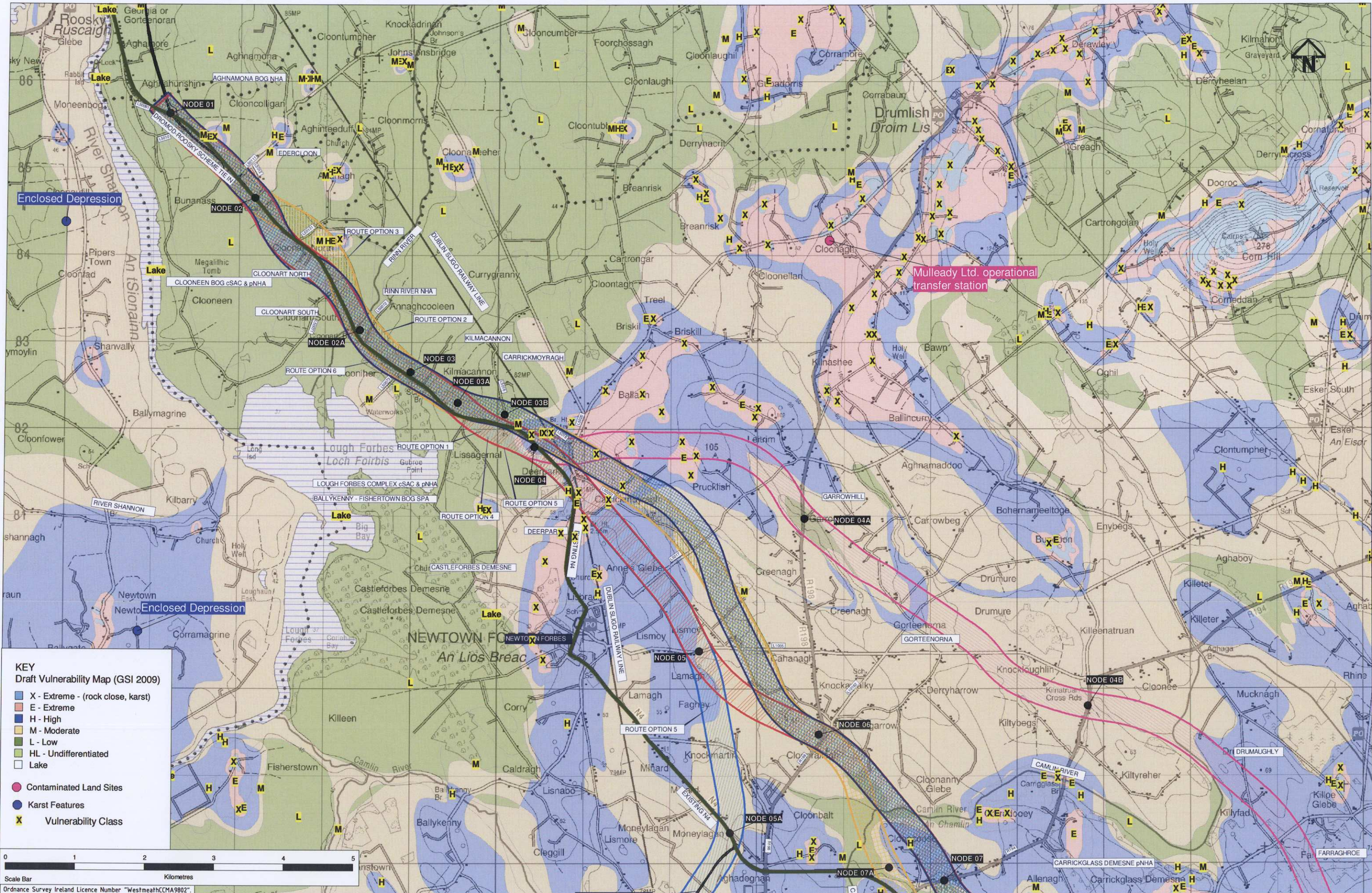
- 1 - Derravaragh Cherts
- 2 - Lucan Formation
- 3 - Argillaceous Limestones (Visean)
- 4 - Visean Limestones (undifferentiated)
- 5 - in Argillaceous Limest (Visean)
- 6 - Waulsortian Limestones
- 7 - Ballysteen Formation
- 8 - Moathill Formation
- 9 - Meath Formation
- 10 - Fearnaght Formation
- 11 - Basal clastics
- 12 - Coronea Formation
- 13 - Carrickateane Formation

Geological Heritage Areas to Proposed County Geological Sites

- 4 - Bedrock Geology Type

KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6



KEY
Draft Vulnerability Map (GSI 2009)

- X - Extreme - (rock close, karst)
- E - Extreme
- H - High
- M - Moderate
- L - Low
- HL - Undifferentiated
- Lake

● Contaminated Land Sites
● Karst Features
X Vulnerability Class

Scale Bar
0 1 2 3 4 5
Kilometres

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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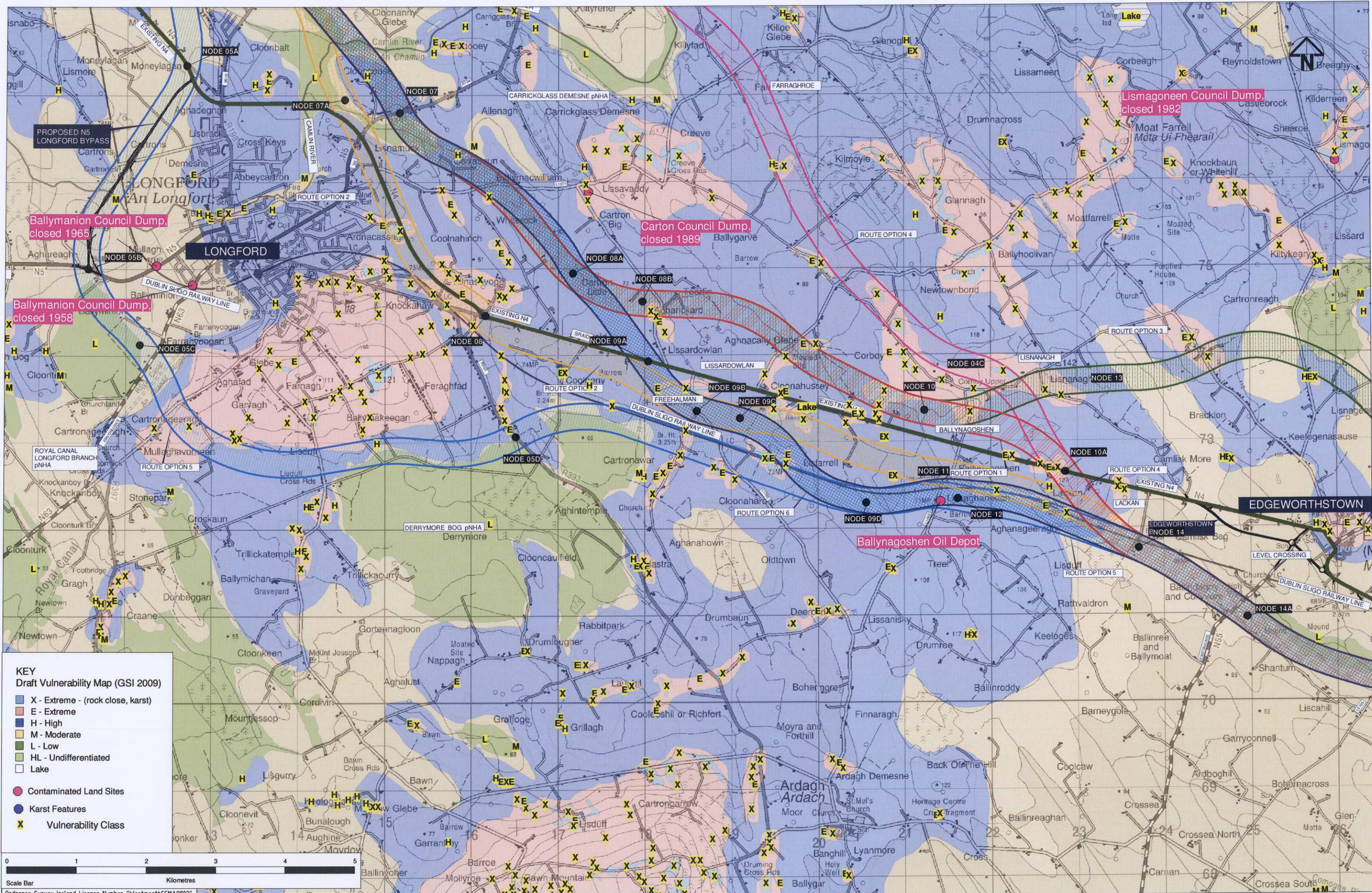
HYDER TOBIN CONSULTANTS
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Tel: +353 1 293 8855
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GROUNDWATER VULNERABILITY OVERVIEW
(Sheet 1 of 4)

Drawn: P. McAteer
Checked: W. Murray
Approved: M. Farley
Date: FEB09
Scale: 1:50,000 (A3/125,000)

Job No: G001038
File No: RFig. 1.13-G001038-TGD-06
Drawing No:
RFig 4.7.13

Rev: 06



KEY
Draft Vulnerability Map (GSI 2009)

- X - Extreme - (rock close, karst)
- E - Extreme
- H - High
- M - Moderate
- L - Low
- HL - Undifferentiated
- Lake

● Contaminated Land Sites
● Karst Features
X Vulnerability Class

0 1 2 3 4 5
Kilometres

Scale Bar

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802"

NOTE

KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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National Development Plan 2007-2013

Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

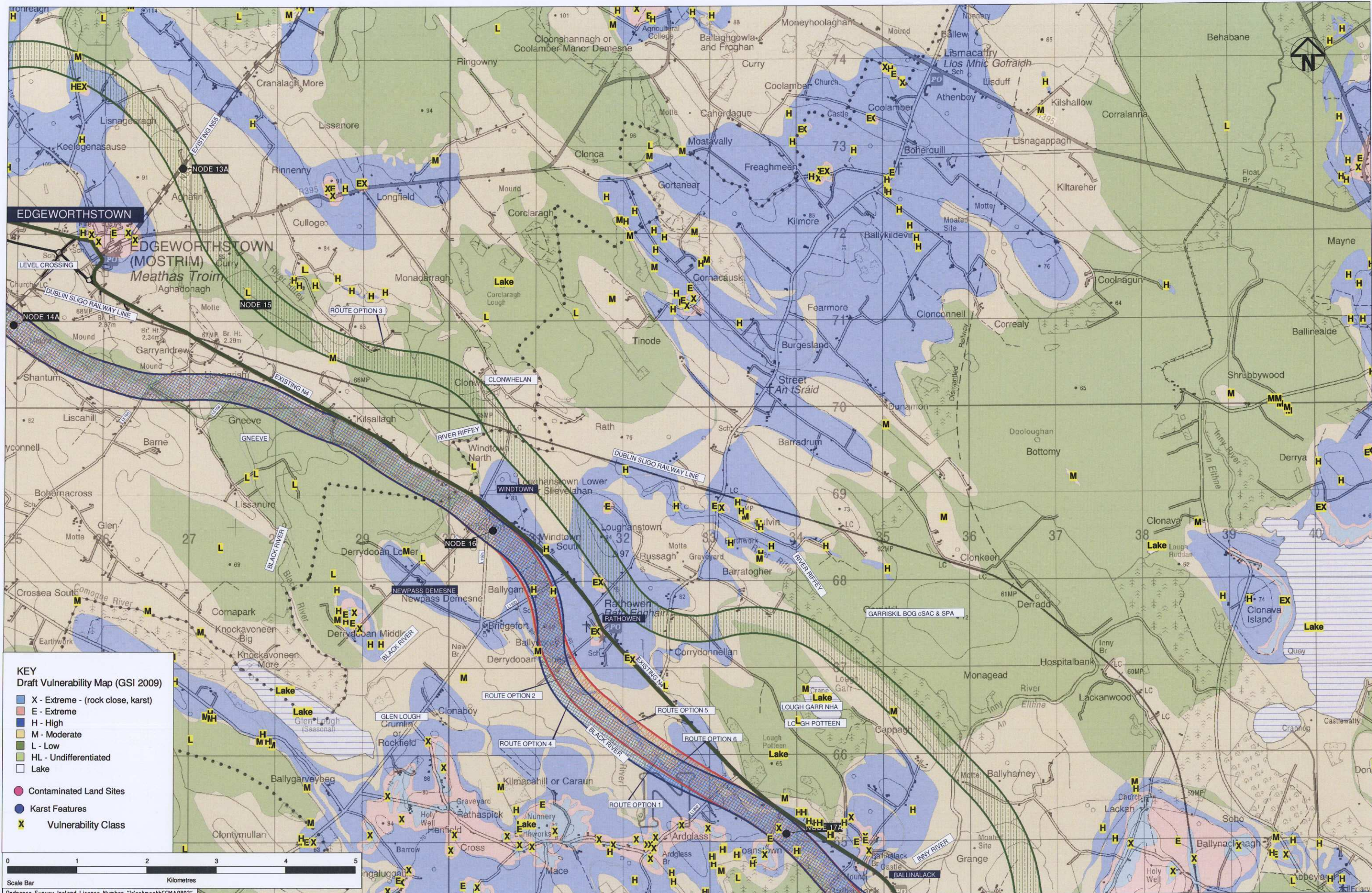
Rev	Date	Description	App'd
05	FEB 09	RCR FINAL ISSUE	MF
06	DEC 09	RCR FINAL ISSUE	MF
04	AUG 10	RCR FINAL ISSUE	FL
03	MARCH 10	ISSUE FOR PEER REVIEW	FL
02	MARCH 10	FINAL ISSUE RCR	FL
01	FEB 09	RCR FIRST DRAFT	FL

Title: **GROUNDWATER VULNERABILITY OVERVIEW (Sheet 2 of 4)**

HyderTobin
CONSULTANTS

Drawn: P. McAteer
Checked: W. Murray
Approved: M. Farley
Date: FEB 09
Scale: 1:40,000 (A3) 1:20,000 (A4)

Job No: G000038
File No: RFig 4.7.14-G000038-TGD-06
Drawing No:
Rev: 06



KEY
Draft Vulnerability Map (GSI 2009)

- X - Extreme - (rock close, karst)
- E - Extreme
- H - High
- M - Moderate
- L - Low
- HL - Undifferentiated
- Lake

Contaminated Land Sites
Karst Features
Vulnerability Class

KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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Department of Transport
National Roads Authority

Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

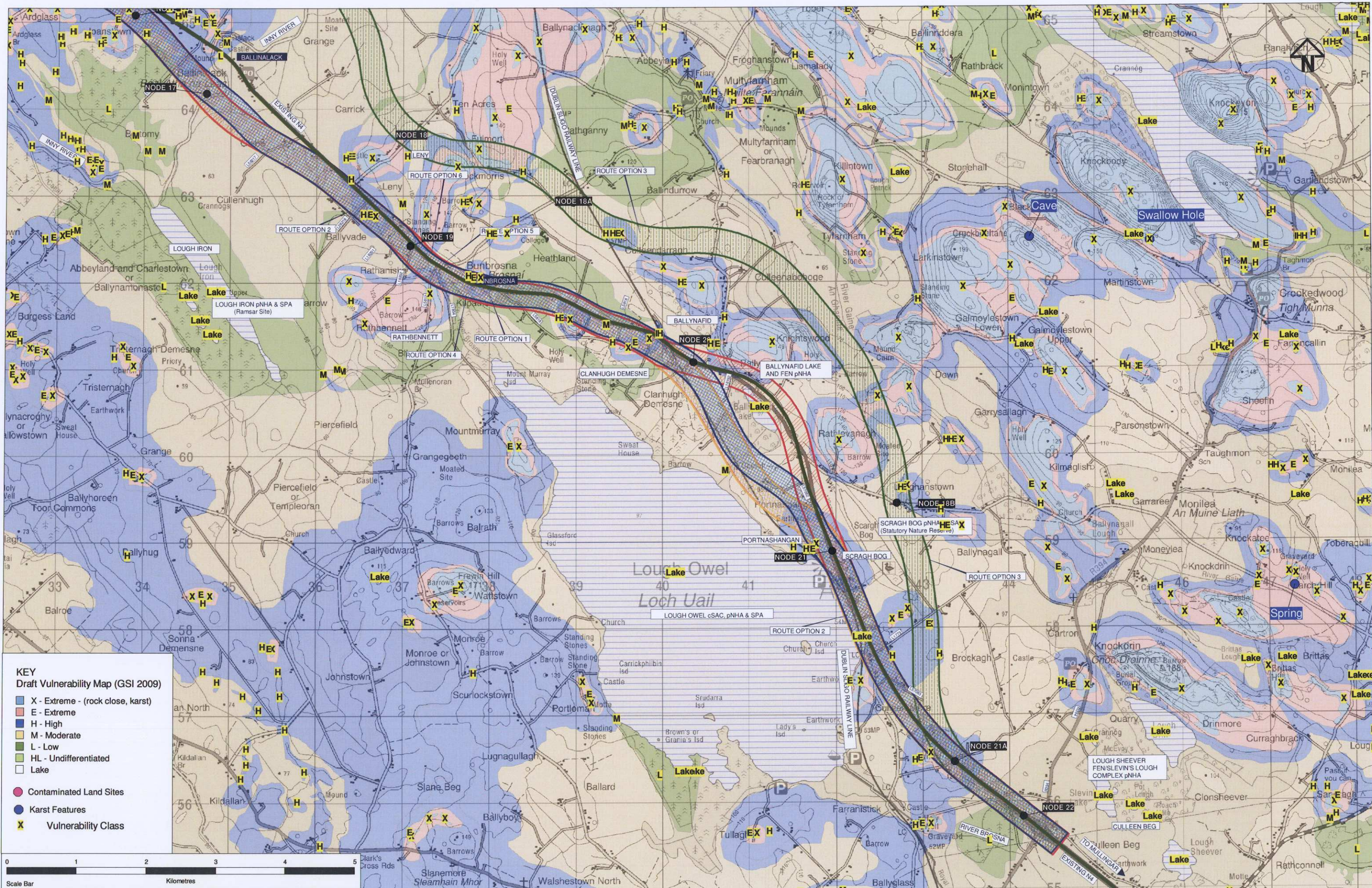
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06	FEB 09	RCSR FINAL ISSUE	MF
05	DEC 09	RCSR FINAL ISSUE	MF
04	14 MAY 09	RCSR FINAL ISSUE	FL
03	MARCH 09	ISSUE FOR PEER REVIEW	FL
02	MARCH 09	FINAL ISSUE RCSR	FL
01	FEB 09	RCSR FIRST DRAFT	FL

Title: **GROUNDWATER VULNERABILITY OVERVIEW (Sheet 3 of 4)**

Drawn	Checked	Approved	Date	Scale
P. McAteer	W. Murray	M. Farley	FEB 09	1:63,000 (A3) 1:25,000 (A4)

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Job No: G001038
File No: RFG4.1.15-G001038-TGD-06
Drawing No: RFG 4.7.15
Rev: 06



KEY
Draft Vulnerability Map (GSI 2009)

- X - Extreme - (rock close, karst)
- E - Extreme
- H - High
- M - Moderate
- L - Low
- HL - Undifferentiated
- Lake

● Contaminated Land Sites
● Karst Features
X Vulnerability Class

0 1 2 3 4 5
Scale Bar Kilometres

Ordance Survey Ireland Licence Number "WestmeathCCMA9802"

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

ROUTE CORRIDOR OPTION 1
ROUTE CORRIDOR OPTION 2
ROUTE CORRIDOR OPTION 3
ROUTE CORRIDOR OPTION 4
ROUTE CORRIDOR OPTION 5
ROUTE CORRIDOR OPTION 6

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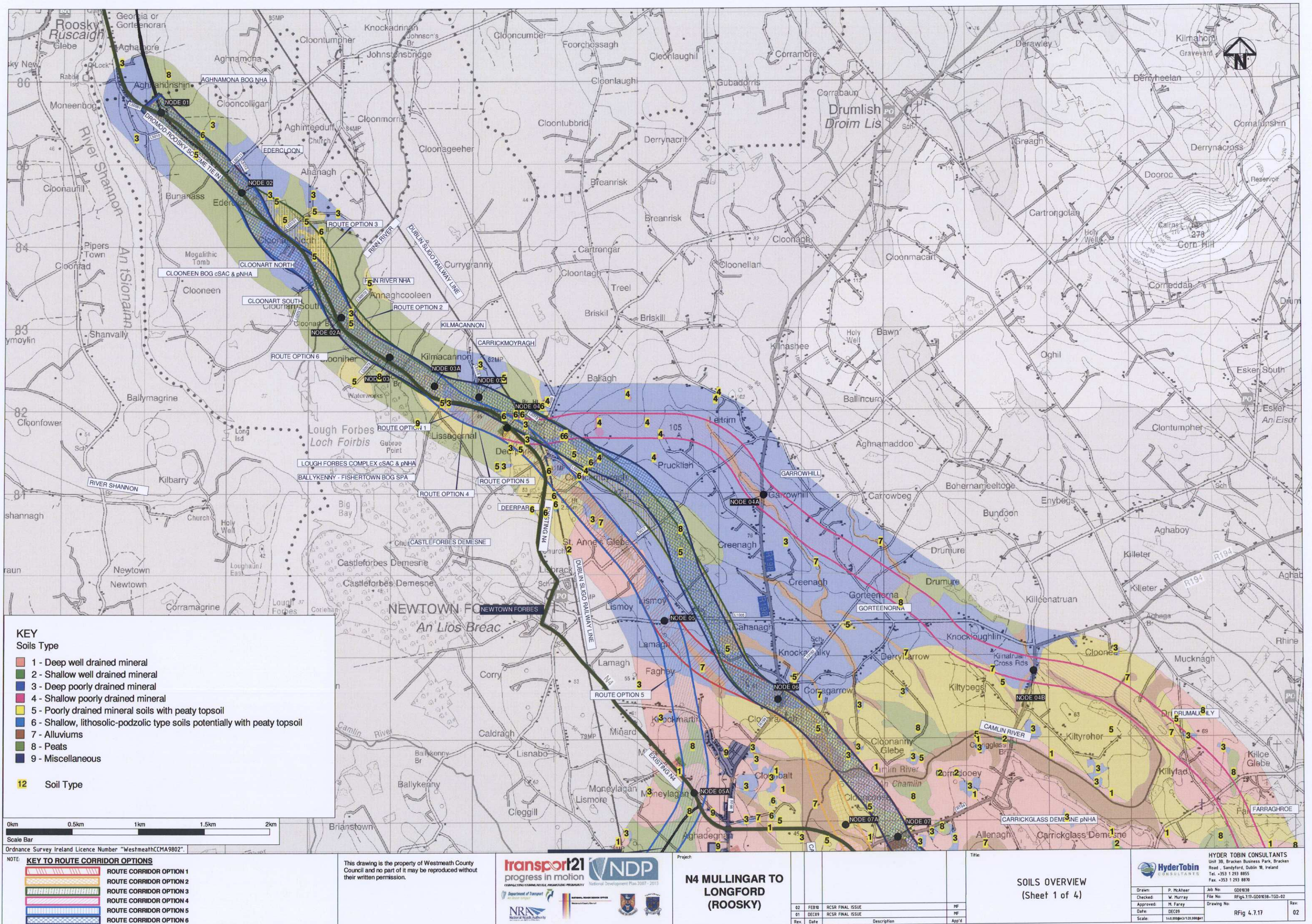
NDP
National Development Plan 2007-2013

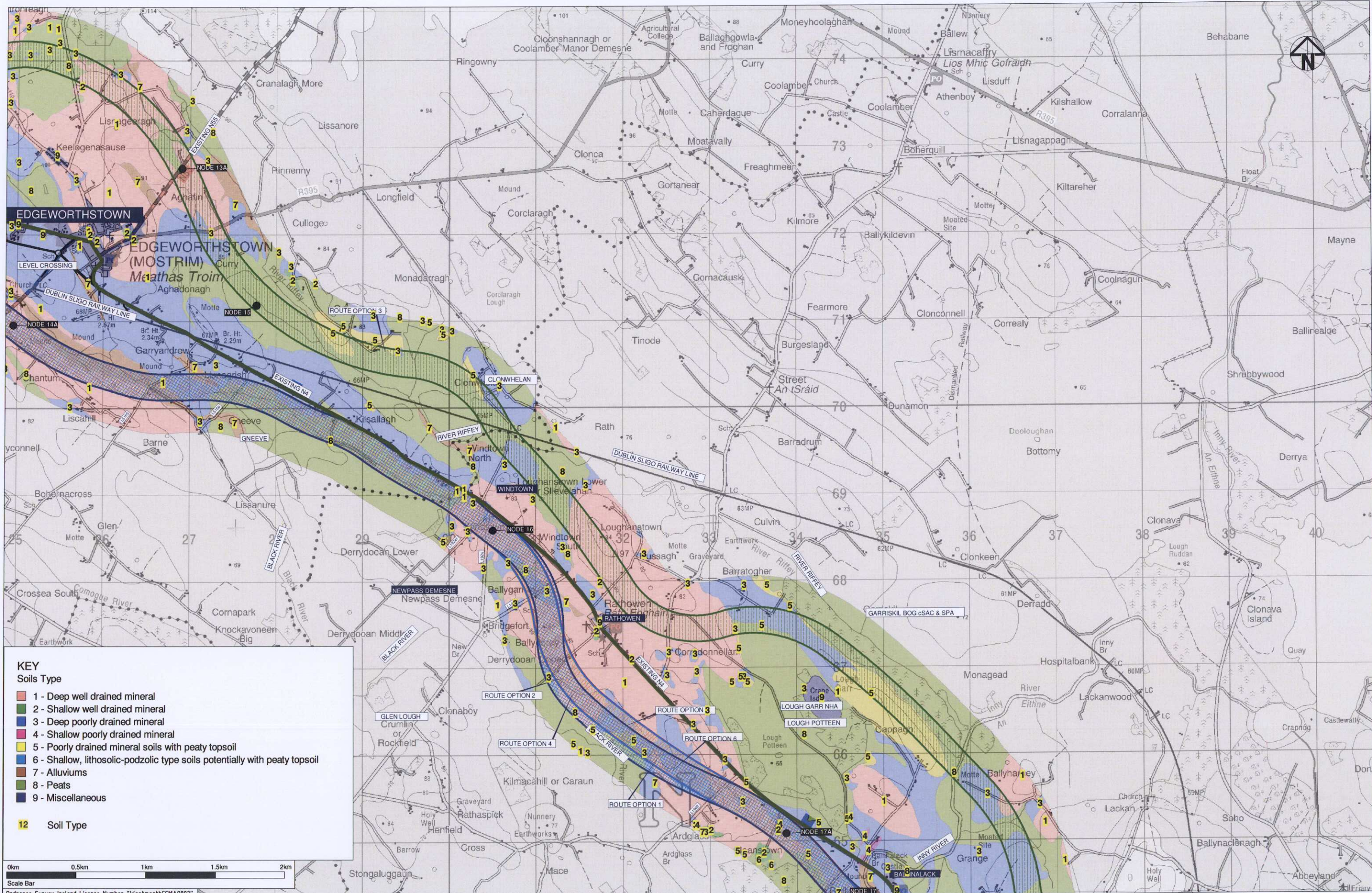
Department of Transport
National Roads Authority

Project: N4 MULLINGAR TO LONGFORD (ROOSKY)			Title: GROUNDWATER VULNERABILITY OVERVIEW (Sheet 4 of 4)		
06	FEB09	RCR FINAL ISSUE	MF		
05	DEC08	RCR FINAL ISSUE	MF		
04	JUL09	RCR FINAL ISSUE	FL		
03	MAR09	ISSUE FOR PEER REVIEW	FL		
02	MAR09	FINAL ISSUE RCR	FL		
01	FEB09	RCR FIRST DRAFT	FL		
Rev.	Date	Description	App'd		

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Drawn: P. McAteer	Job No: G09038
Checked: W. Murray	File No: RFG4.116-G09038-TSD-06
Approved: M. Farley	Drawing No:
Date: FEB09	Rfg 4.7.16
Scale: 1:10,000 (A3/1:20,000 A1)	06





KEY
Soils Type
1 - Deep well drained mineral
2 - Shallow well drained mineral
3 - Deep poorly drained mineral
4 - Shallow poorly drained mineral
5 - Poorly drained mineral soils with peaty topsoil
6 - Shallow, lithosolic-podzolic type soils potentially with peaty topsoil
7 - Alluviums
8 - Peats
9 - Miscellaneous

12 Soil Type

0km 0.5km 1km 1.5km 2km
Scale Bar

Ordnance Survey Ireland Licence Number "WestmeathCMA9802".

NOTE: KEY TO ROUTE CORRIDOR OPTIONS
ROUTE CORRIDOR OPTION 1
ROUTE CORRIDOR OPTION 2
ROUTE CORRIDOR OPTION 3
ROUTE CORRIDOR OPTION 4
ROUTE CORRIDOR OPTION 5
ROUTE CORRIDOR OPTION 6

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N4 MULLINGAR TO LONGFORD (ROOSKY)

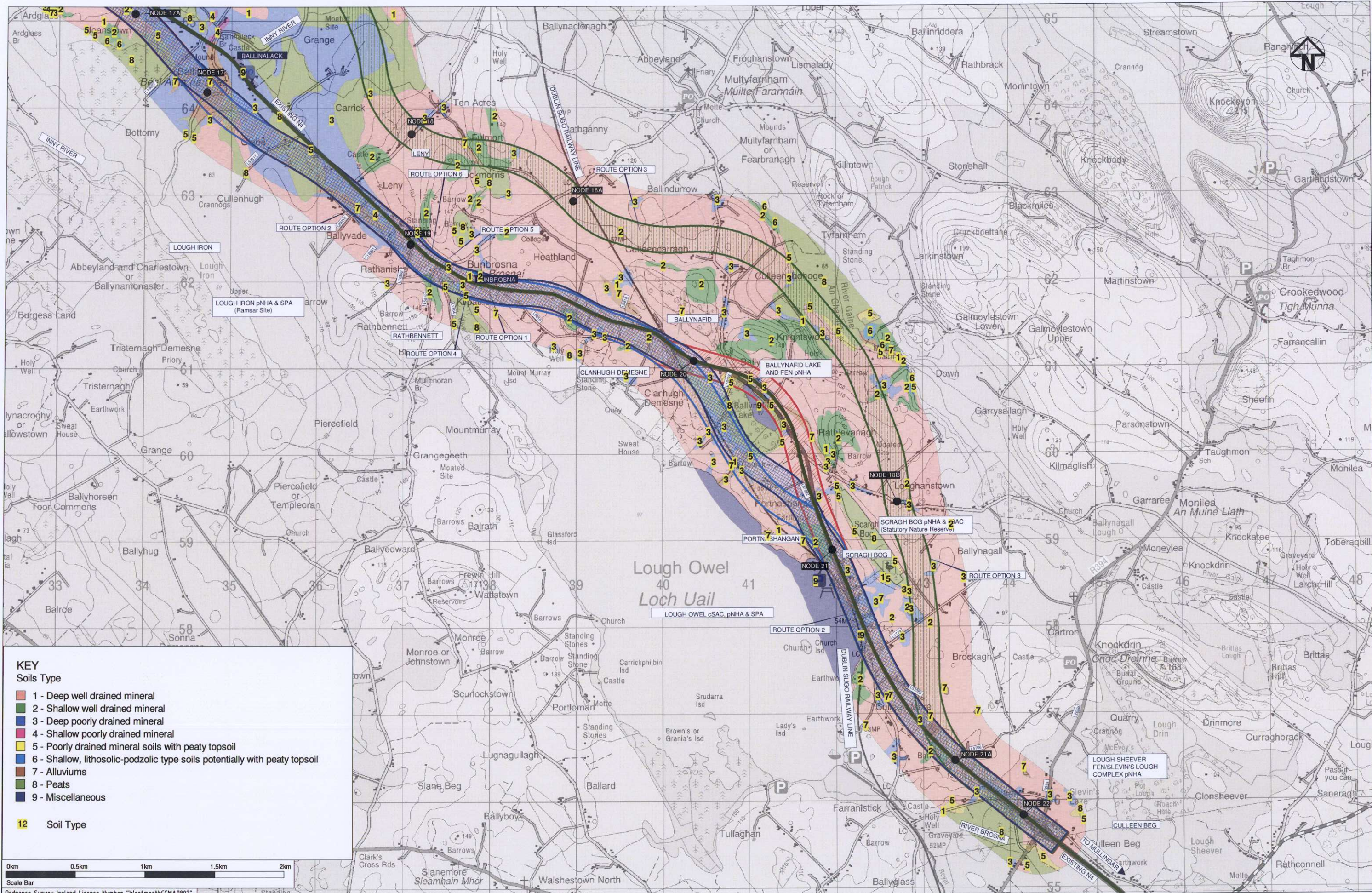
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01	DEC 09	RCSR FINAL ISSUE	MF
Rev.	Date	Description	App'd

SOILS OVERVIEW
(Sheet 3 of 4)

HYDER TOBIN CONSULTANTS
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Drawn:	P. McAteer	Job No:	G00938
Checked:	W. Murray	File No:	RFig4.119-G00938-TGD-02
Approved:	M. Farley	Drawing No:	
Date:	DEC 09		
Scale:	1:40,000		

RFig 4.7.19 02



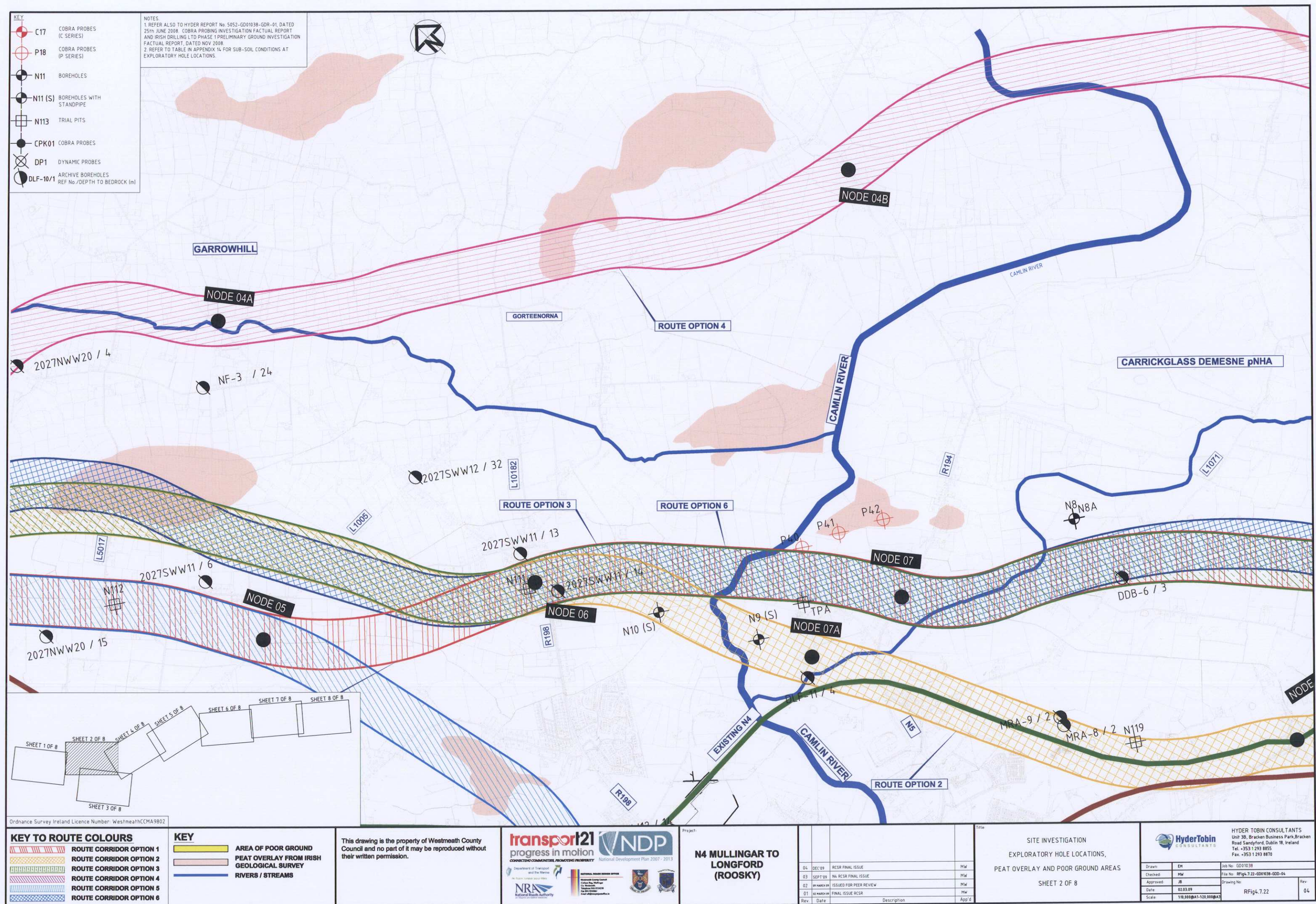
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Soils Type

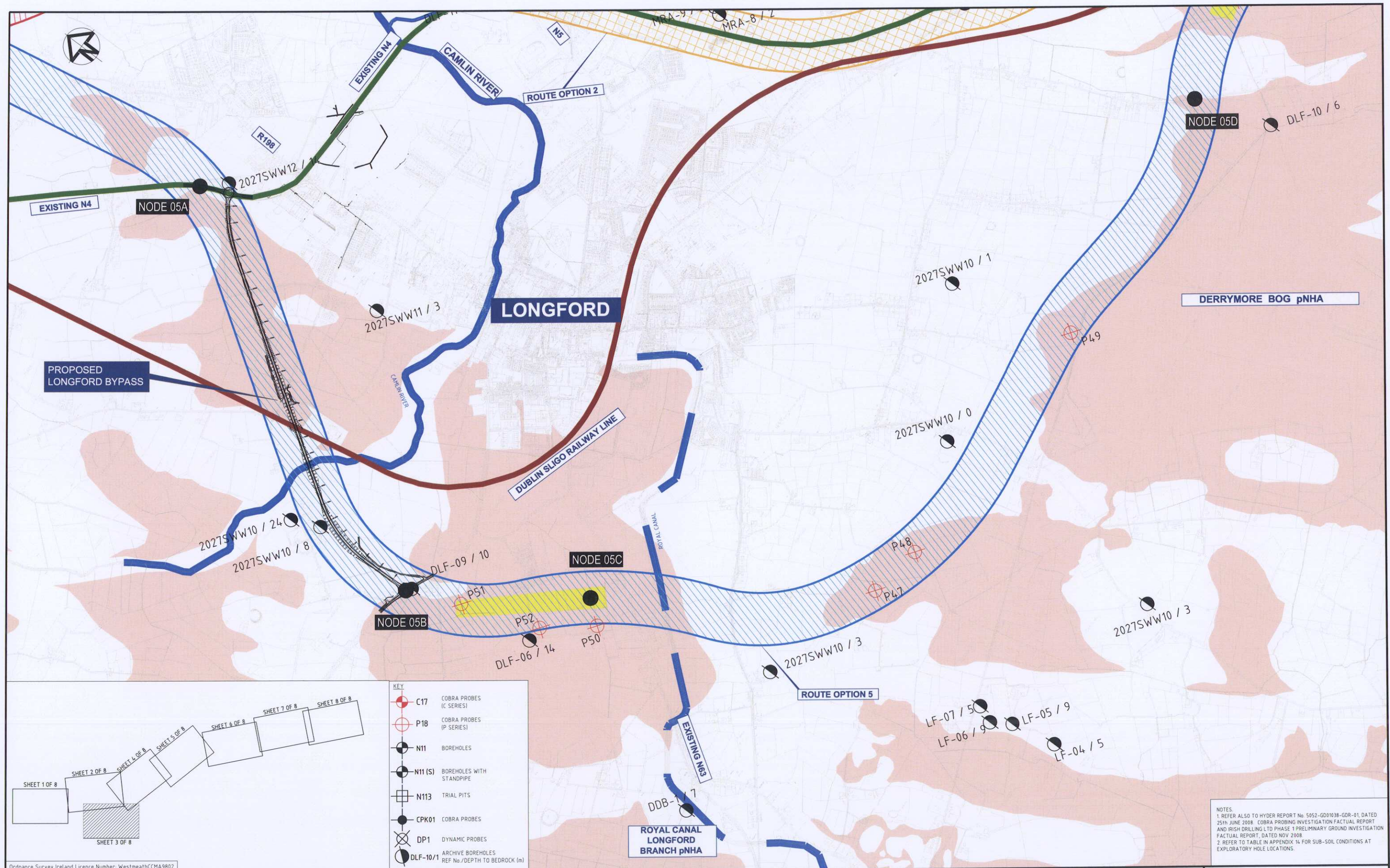
- 1 - Deep well drained mineral
- 2 - Shallow well drained mineral
- 3 - Deep poorly drained mineral
- 4 - Shallow poorly drained mineral
- 5 - Poorly drained mineral soils with peaty topsoil
- 6 - Shallow, lithosolic-podzolic type soils potentially with peaty topsoil
- 7 - Alluviums
- 8 - Peats
- 9 - Miscellaneous

12 Soil Type

0km 0.5km 1km 1.5km 2km
Scale Bar

Ordance Survey Ireland Licence Number "WestmeathCMA9802".





KEY TO ROUTE COLOURS

[Red hatched]	ROUTE CORRIDOR OPTION 1
[Orange hatched]	ROUTE CORRIDOR OPTION 2
[Green hatched]	ROUTE CORRIDOR OPTION 3
[Blue hatched]	ROUTE CORRIDOR OPTION 4
[Purple hatched]	ROUTE CORRIDOR OPTION 5
[Yellow hatched]	ROUTE CORRIDOR OPTION 6

KEY

[Yellow box]	AREA OF POOR GROUND
[Pink box]	PEAT OVERLAY FROM IRISH GEOLOGICAL SURVEY
[Blue line]	RIVERS / STREAMS

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Department of Transport and the Marine

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N4 MULLINGAR TO LONGFORD (ROOSKY)

04	DEC'09	RCSR FINAL ISSUE	MW
03	SEPT'09	N4 RCSR FINAL ISSUE	MW
02	20 MAR'09	ISSUED FOR PEER REVIEW	MW
01	10 MAR'09	FINAL ISSUE RCSR	MW
Rev.	Date	Description	App'd

Project: N4 MULLINGAR TO LONGFORD (ROOSKY)

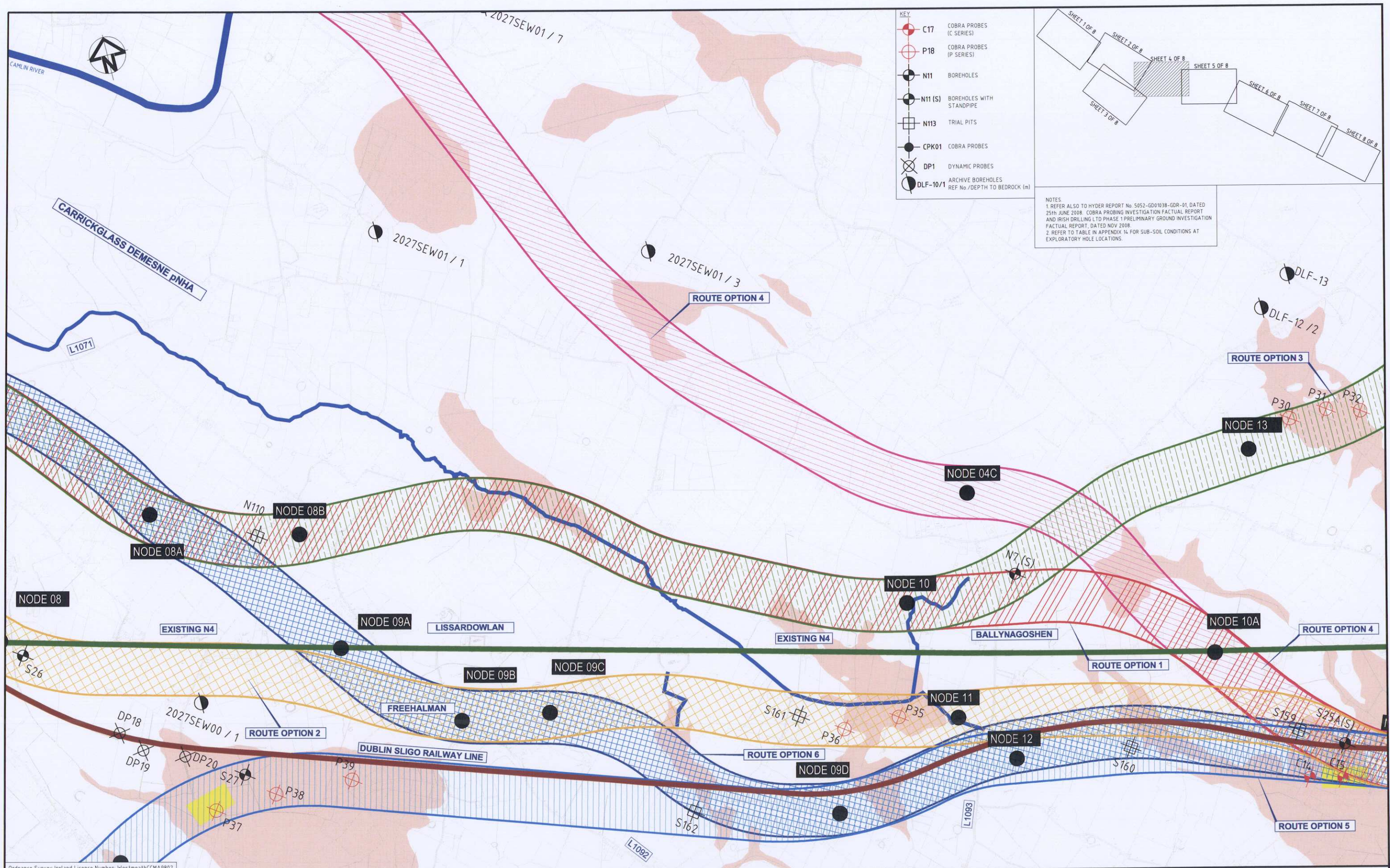
Title: SITE INVESTIGATION
EXPLORATORY HOLE LOCATIONS,
PEAT OVERLAY AND POOR GROUND AREAS
SHEET 3 OF 8

HyderTobin
CONSULTANTS

HYDER TOBIN CONSULTANTS
Unit 38, Bracken Business Park, Bracken
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Drawn:	EM	Job No:	GD01038
Checked:	MW	File No:	RFig4.7.23-GD01038-GDD-04
Approved:	JB	Drawing No:	
Date:	02.03.09		
Scale:	1/10,000 @ A1-120,000 @ A3		

Rev. 04



Ordnance Survey Ireland Licence Number: WestmeathCCMA9802

KEY TO ROUTE COLOURS

[Red hatched box]	ROUTE CORRIDOR OPTION 1
[Orange hatched box]	ROUTE CORRIDOR OPTION 2
[Green hatched box]	ROUTE CORRIDOR OPTION 3
[Blue hatched box]	ROUTE CORRIDOR OPTION 4
[Yellow hatched box]	ROUTE CORRIDOR OPTION 5
[Purple hatched box]	ROUTE CORRIDOR OPTION 6

KEY

[Yellow box]	AREA OF POOR GROUND
[Pink box]	PEAT OVERLAY FROM IRISH GEOLOGICAL SURVEY
[Blue line]	RIVERS / STREAMS

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National Development Plan 2007 - 2013

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N4 MULLINGAR TO LONGFORD (ROOSKY)

Rev	Date	Description	App'd
04	DEC 09	RCSR FINAL ISSUE	MW
03	SEPT 09	N4 RCSR FINAL ISSUE	MW
02	10 MAR 09	ISSUE FOR PEER REVIEW	MW
01	10 MAR 09	FINAL ISSUE RCSR	MW

SITE INVESTIGATION

EXPLORATORY HOLE LOCATIONS, PEAT OVERLAY AND POOR GROUND AREAS

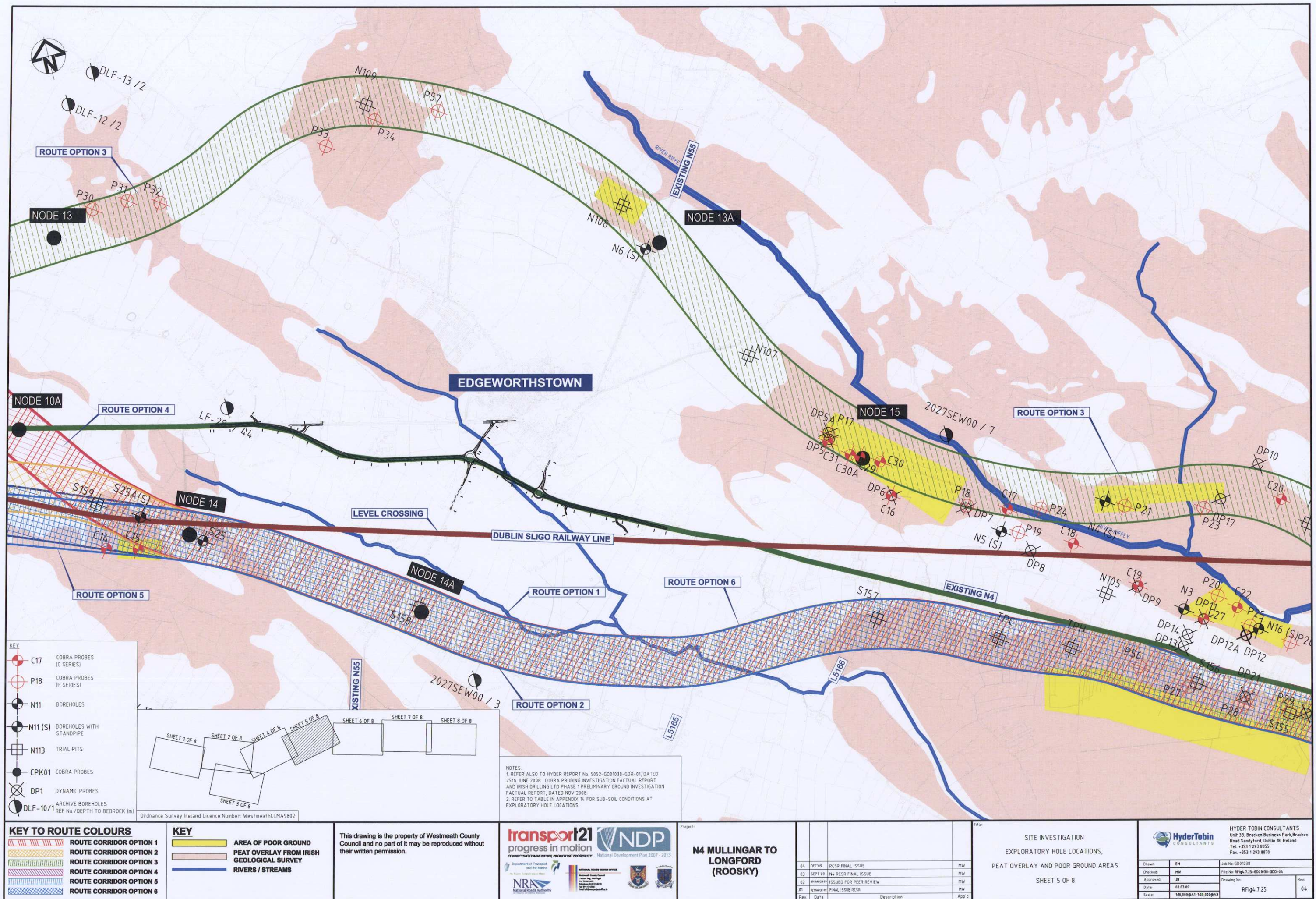
SHEET 4 OF 8

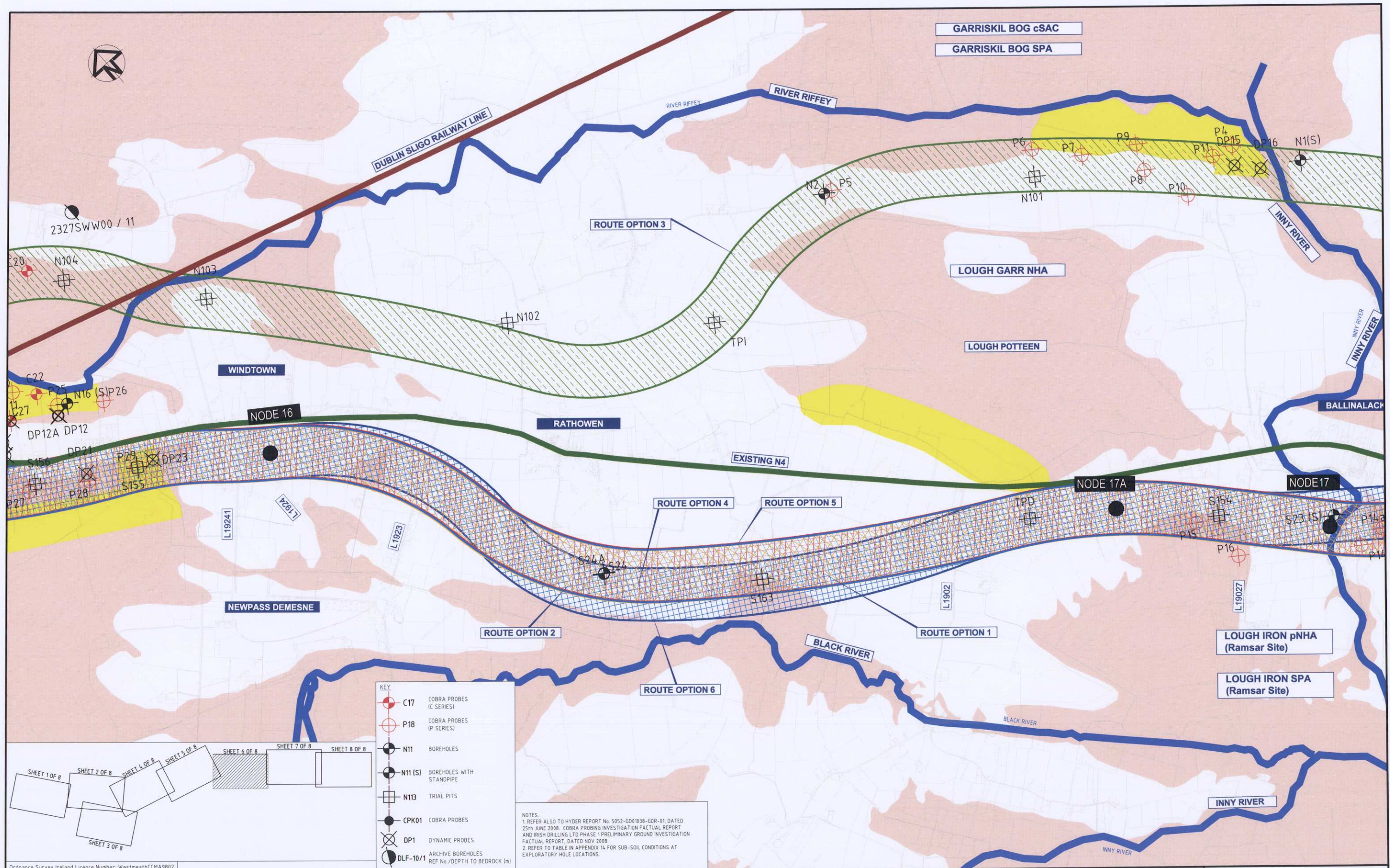
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Checked:	MW	File No:	RFig4.7.24-GD01038-GD0-04
Approved:	JB	Drawing No:	
Date:	02.03.09	Scale:	1:10,000 @ A1-100,000 @ A3
Rev:			04





Ordnance Survey Ireland Licence Number: WestmeathCCMA9802

KEY TO ROUTE COLOURS

[Red Hatched]	ROUTE CORRIDOR OPTION 1
[Green Hatched]	ROUTE CORRIDOR OPTION 2
[Blue Hatched]	ROUTE CORRIDOR OPTION 3
[Yellow Hatched]	ROUTE CORRIDOR OPTION 4
[Orange Hatched]	ROUTE CORRIDOR OPTION 5
[Purple Hatched]	ROUTE CORRIDOR OPTION 6

KEY

[Yellow Box]	AREA OF POOR GROUND
[Pink Box]	PEAT OVERLAY FROM IRISH GEOLOGICAL SURVEY
[Blue Line]	RIVERS / STREAMS

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Department of Transport and the Marine
National Roads Authority

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National Development Plan 2007-2013
National Roads Service Office

Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

Rev	Date	Description	App'd
04	DEC'09	RCR FINAL ISSUE	MW
03	SEP'09	N4 RCSR FINAL ISSUE	MW
02	28 MAR'09	ISSUE FOR PEER REVIEW	MW
01	16 MAR'09	FINAL ISSUE RCSR	MW

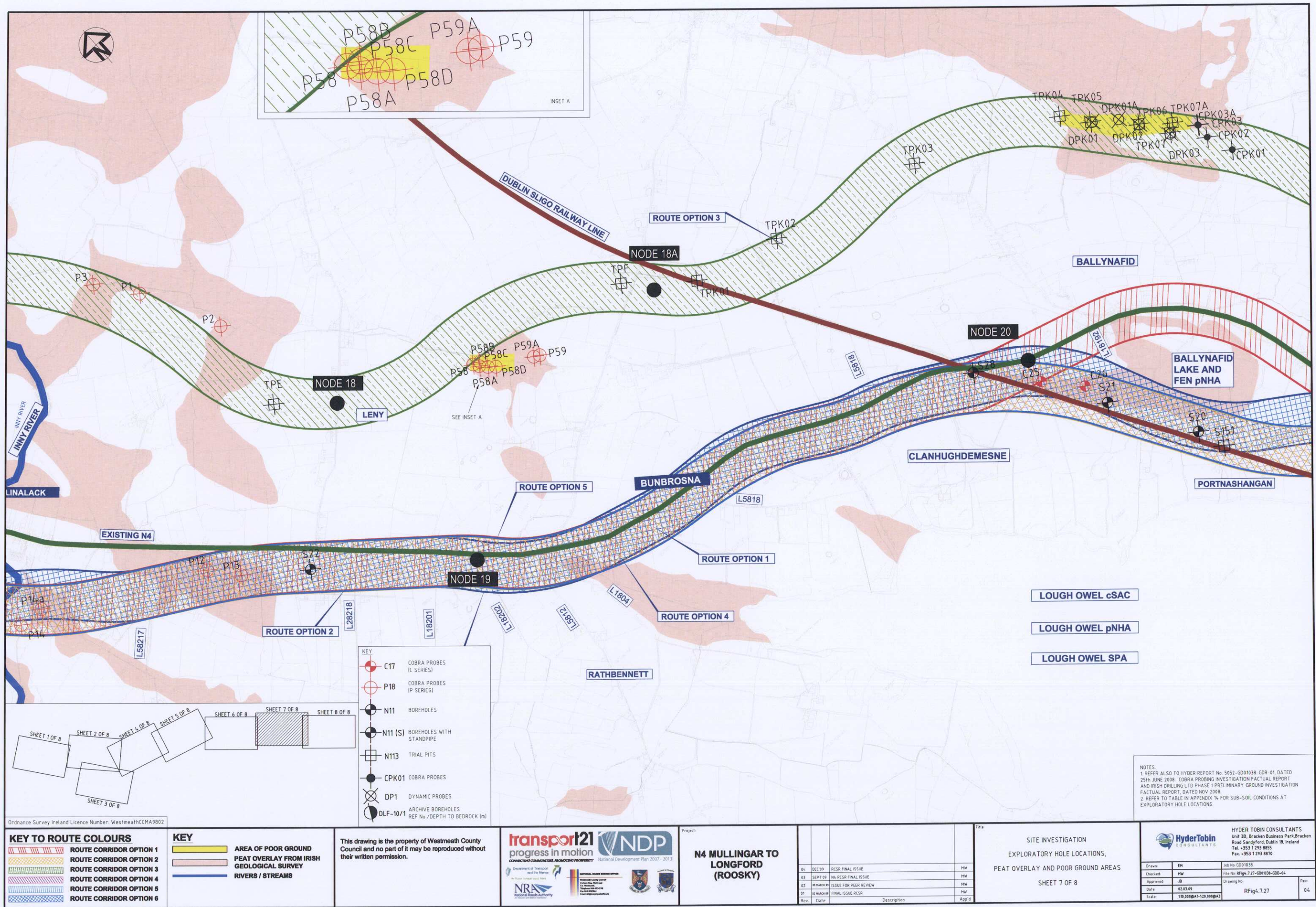
Title: **SITE INVESTIGATION
EXPLORATORY HOLE LOCATIONS,
PEAT OVERLAY AND POOR GROUND AREAS**
SHEET 6 OF 8

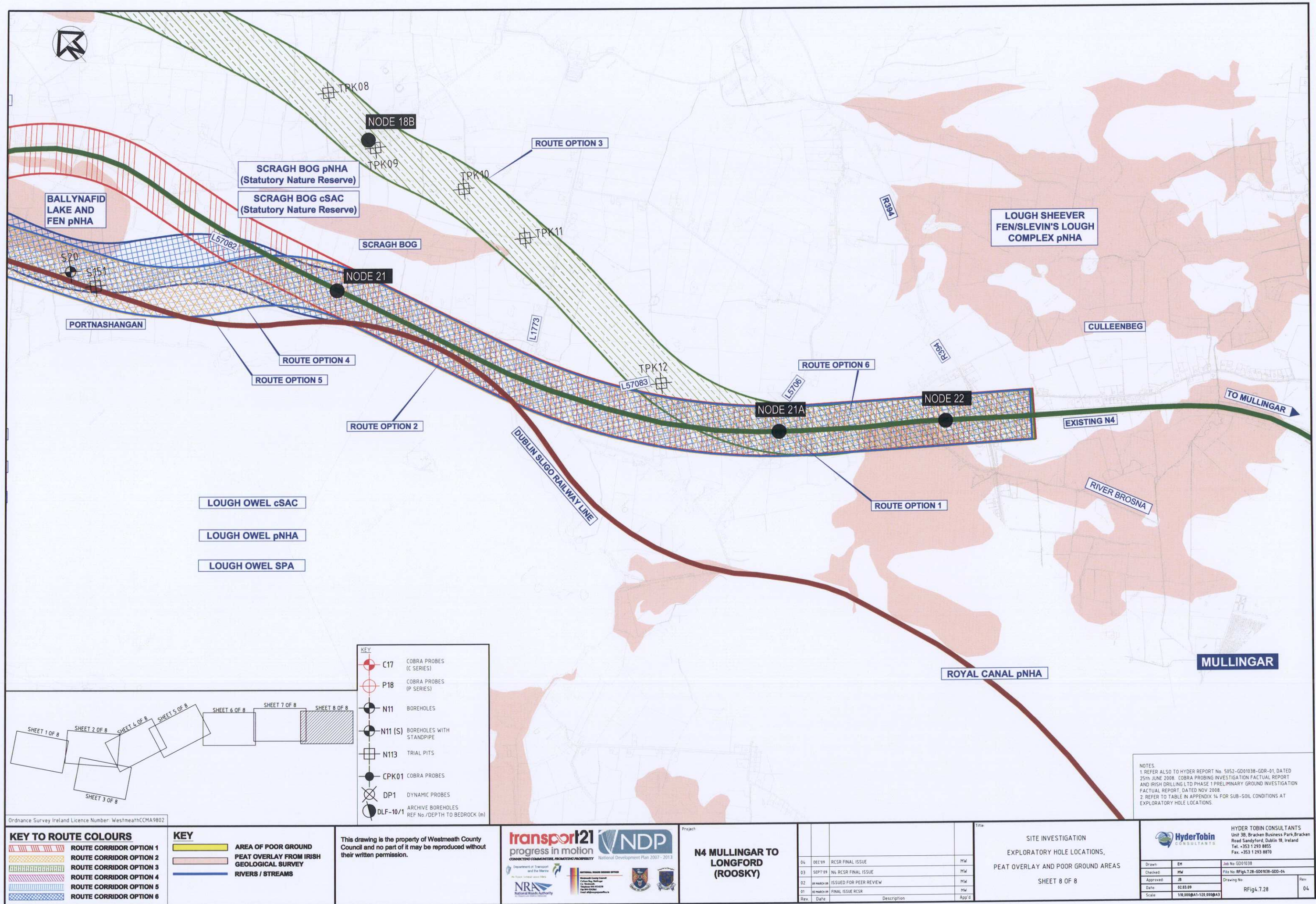
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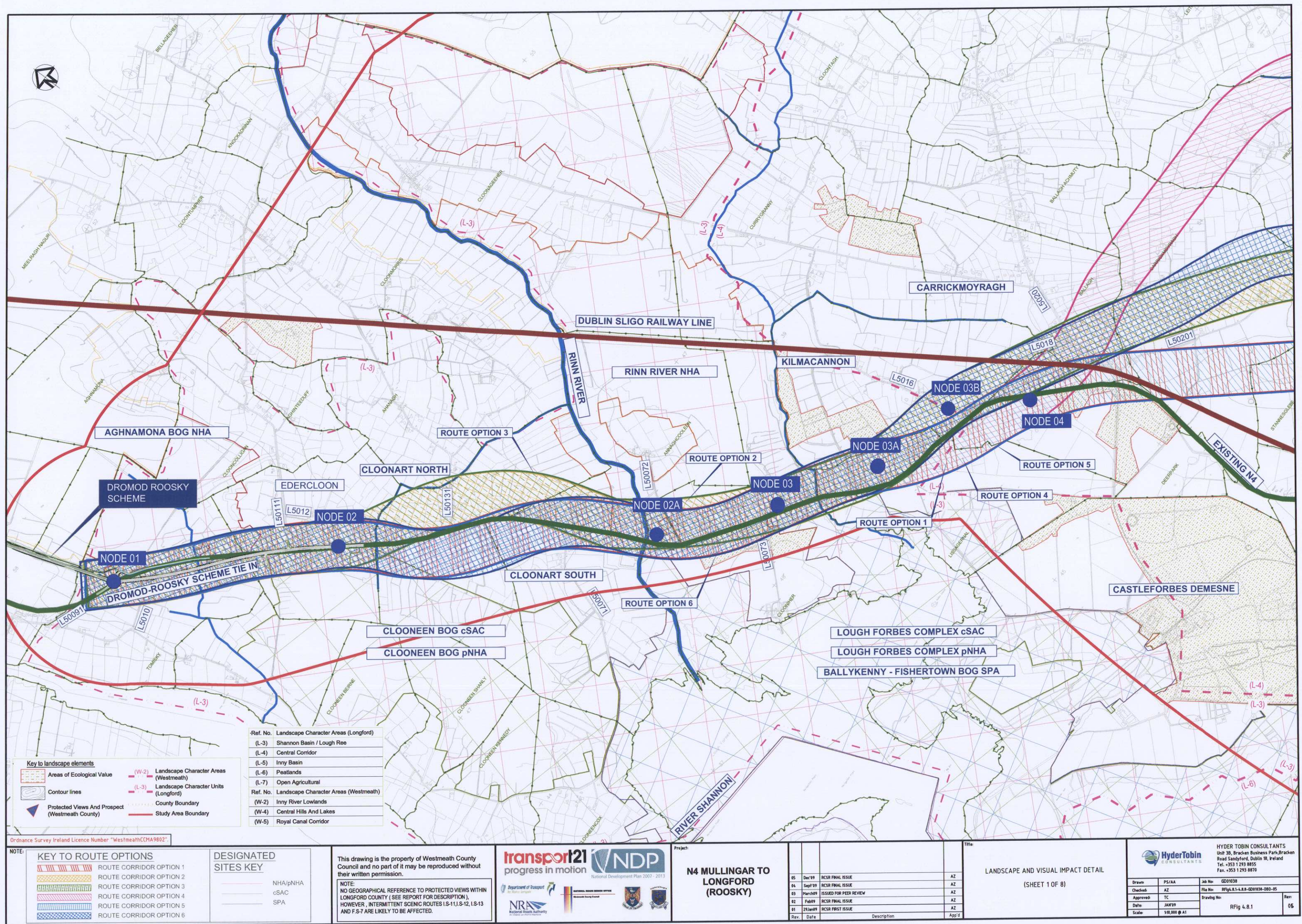
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Approved:	JB	Drawing No:	
Date:	02.03.09		
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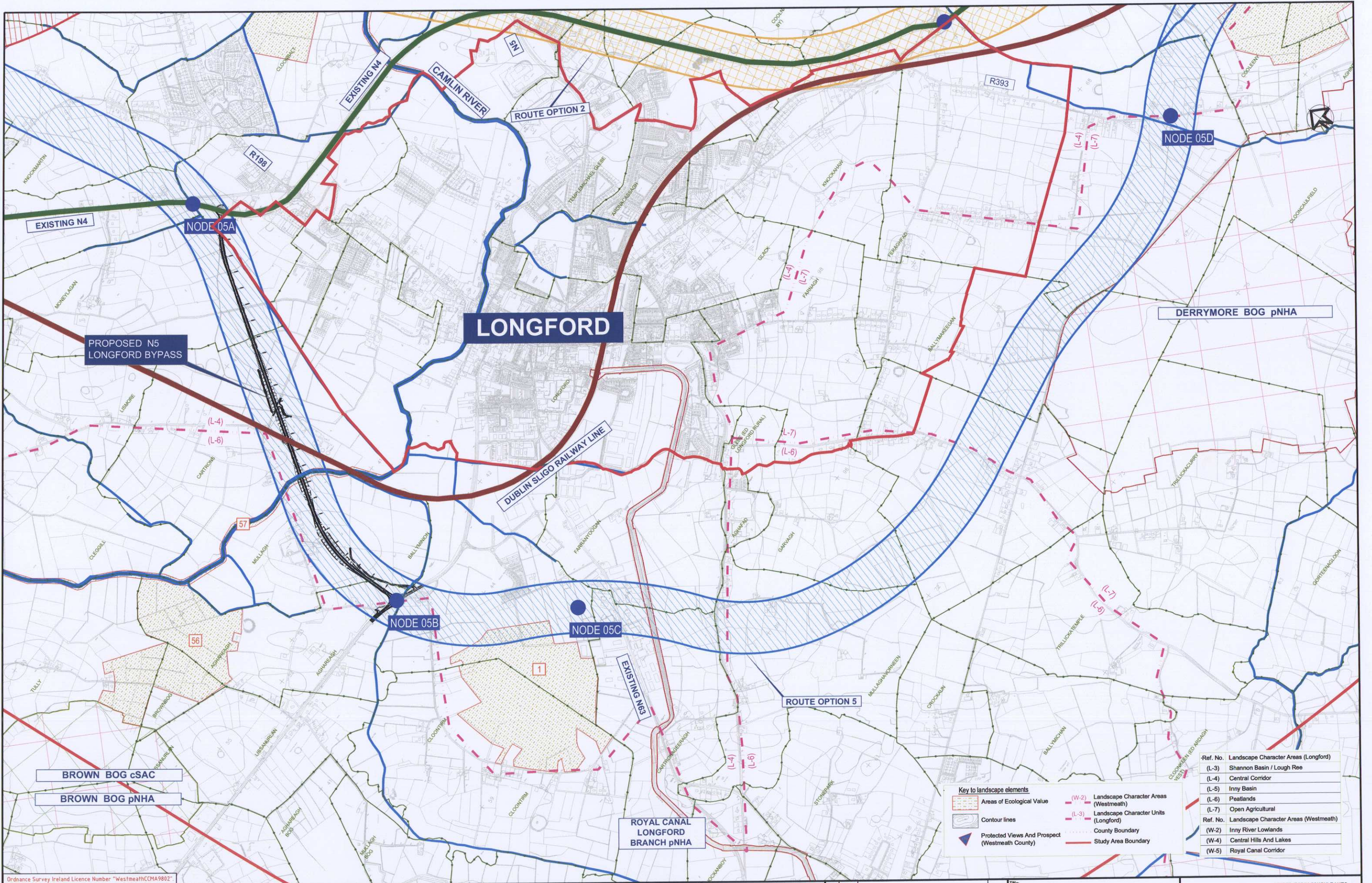
HYDER TOBIN CONSULTANTS
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Rev: 04









NOTE: KEY TO ROUTE OPTIONS

[Red dashed line]	ROUTE CORRIDOR OPTION 1
[Orange dashed line]	ROUTE CORRIDOR OPTION 2
[Green dashed line]	ROUTE CORRIDOR OPTION 3
[Blue dashed line]	ROUTE CORRIDOR OPTION 4
[Purple dashed line]	ROUTE CORRIDOR OPTION 5
[Yellow dashed line]	ROUTE CORRIDOR OPTION 6

DESIGNATED SITES KEY

[Pink hatched area]	NHA/pNHA
[Blue hatched area]	cSAC
[Green hatched area]	SPA

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NOTE: NO GEOGRAPHICAL REFERENCE TO PROTECTED VIEWS WITHIN LONGFORD COUNTY (SEE REPORT FOR DESCRIPTION), HOWEVER, INTERMITTENT SCENIC ROUTES L-11, L-12, L-13 AND F-5-7 ARE LIKELY TO BE AFFECTED.

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National Development Plan 2007 - 2013

Department of Transport

National Roads Authority

Local Authorities

Project: N4 MULLINGAR TO LONGFORD (ROOSKY)

Rev.	Date	Description	App'd
05	Dec'09	RCSR FINAL ISSUE	AZ
04	Sep'09	RCSR FINAL ISSUE	AZ
03	March'09	ISSUED FOR PEER REVIEW	AZ
02	Feb'09	RCSR FINAL ISSUE	AZ
01	20 Jan'09	RCSR FIRST ISSUE	AZ

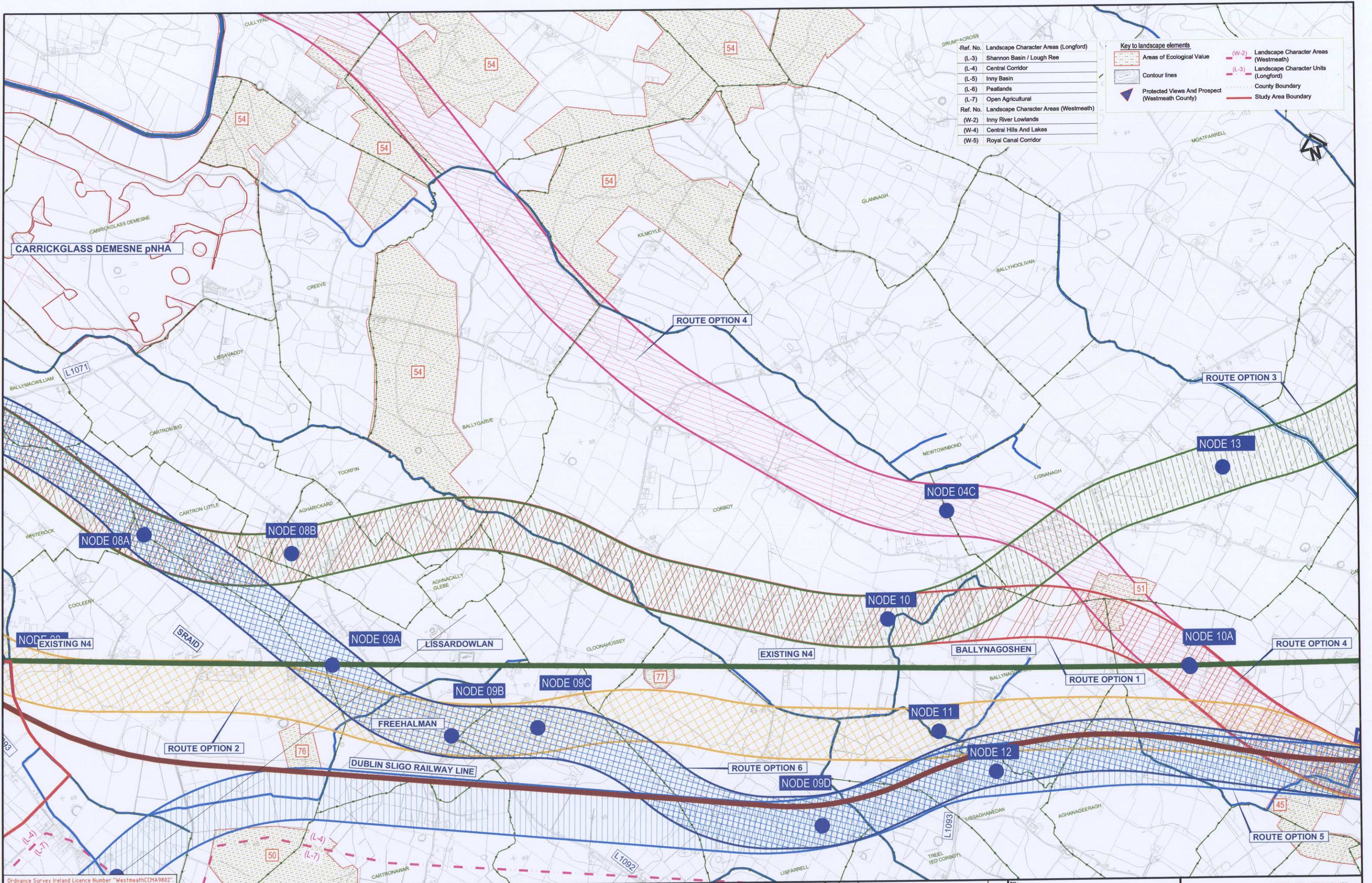
Title: LANDSCAPE AND VISUAL IMPACT DETAIL (SHEET 3 OF 8)

Drawn	PS/AA	Job No.	GD01038
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Approved	TC	Drawing No.	Rfg 4.8.3
Date:	JAN'09		
Scale:	1:10,000 @ A1		

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Drawn	PS/AA	Job No.	GD01038
Checked	AZ	File No.	RFG/L-1-L-8-GD01038-05-05
Approved	TC	Drawing No.	Rfg 4.8.3
Date:	JAN'09		
Scale:	1:10,000 @ A1		



Ref. No.	Landscape Character Areas (Longford)
(L-3)	Shannon Basin / Lough Ree
(L-4)	Central Corridor
(L-5)	Inny Basin
(L-6)	Peatlands
(L-7)	Open Agricultural
Ref. No.	Landscape Character Areas (Westmeath)
(W-2)	Inny River Lowlands
(W-4)	Central Hills And Lakes
(W-5)	Royal Canal Corridor

Key to landscape elements	
	Areas of Ecological Value
	Contour lines
	Protected Views And Prospect (Westmeath County)
	Landscape Character Areas (Westmeath)
	Landscape Character Units (Longford)
	County Boundary
	Study Area Boundary

KEY TO ROUTE OPTIONS	
	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6
DESIGNATED SITES KEY	
	NHA/pNHA
	cSAC
	SPA

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NOTE: NO GEOGRAPHICAL REFERENCE TO PROTECTED VIEWS WITHIN LONGFORD COUNTY (SEE REPORT FOR DESCRIPTION), HOWEVER, INTERMITTENT SCENIC ROUTES I.S-11, I.S-12, I.S-13 AND F.S-7 ARE LIKELY TO BE AFFECTED.

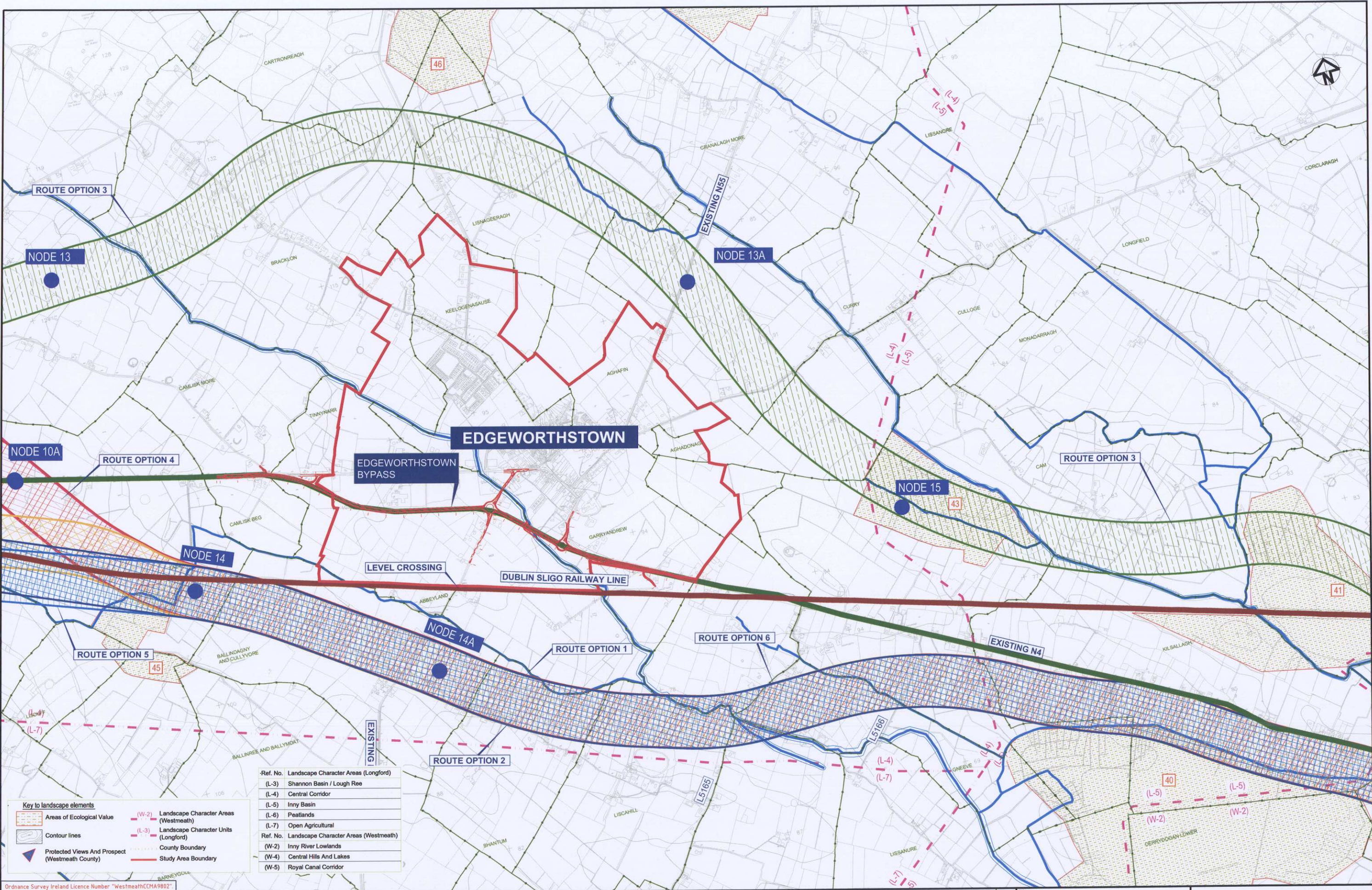
progress in motion

National Development Plan 2007 - 2013

Project: N4 MULLINGAR TO LONGFORD (ROOSKY)			
Rev.	Date	Description	App'd
05	Dec'99	RCSR FINAL ISSUE	AZ
04	Sep'99	RCSR FINAL ISSUE	AZ
03	Mar'00	ISSUED FOR PEER REVIEW	AZ
02	Feb'00	RCSR FINAL ISSUE	AZ
01	29Jan99	RCSR FIRST ISSUE	AZ

Title: LANDSCAPE AND VISUAL IMPACT DETAIL (SHEET 4 OF 8)	
Drawn	PS/AA
Checked	AZ
Approved	TC
Date:	JAN'99
Scale:	1:10,000 @ A1

		HYDER TOBIN CONSULTANTS Unit 3B, Bracken Business Park, Bracken Road, Sandford, Dublin 18, Ireland Tel: +353 1 293 8855 Fax: +353 1 293 8870	
Job No:	GD01038	File No:	RF196.4.1-L&V-GD01038-000-05
Drawing No:		Rfig	4.8.4
Rev:	05		



NOTE: KEY TO ROUTE OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

DESIGNATED SITES KEY

- NHA/pNHA
- cSAC
- SPA

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NOTE: NO GEOGRAPHICAL REFERENCE TO PROTECTED VIEWS WITHIN LONGFORD COUNTY (SEE REPORT FOR DESCRIPTION). HOWEVER, INTERMITTENT SCENIC ROUTES 1S-11, S-12, 1S-13 AND F.S-7 ARE LIKELY TO BE AFFECTED.

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NDP National Development Plan 2007 - 2013

Department of Transport

NRA National Roads Authority

Project: N4 MULLINGAR TO LONGFORD (ROOSKY)

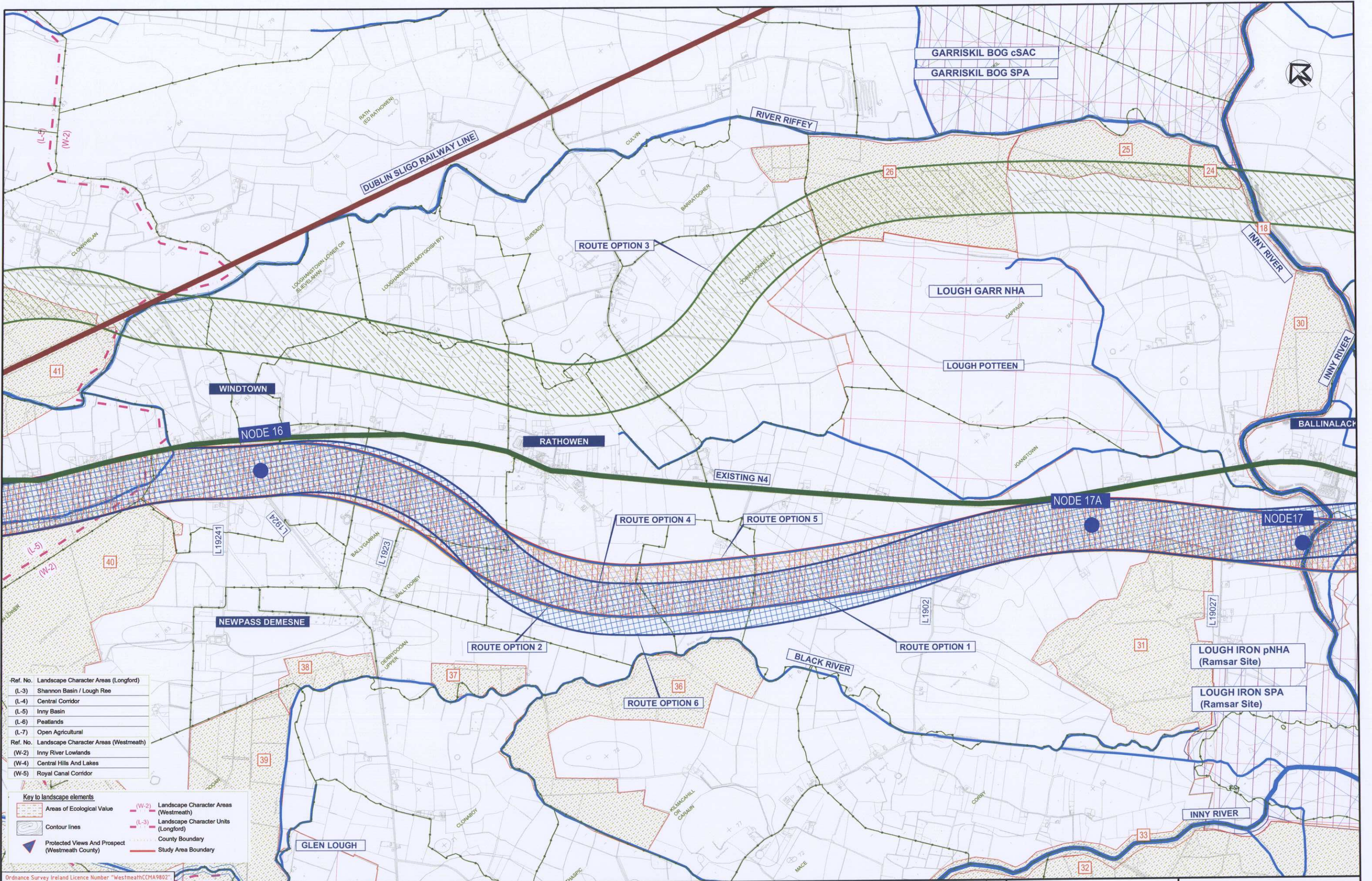
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04	Sept'09	RCSR FINAL ISSUE	AZ
03	March'09	ISSUED FOR PEER REVIEW	AZ
02	Feb'09	RCSR FINAL ISSUE	AZ
01	29 Jan'09	RCSR FIRST ISSUE	AZ

Title: LANDSCAPE AND VISUAL IMPACT DETAIL (SHEET 5 OF 8)

Drawn	PS/AA	Job No	GD01038
Checked	AZ	File No	RFigs.8.1-4.8.8-GD01038-080-05
Approved	TC	Drawing No	RFig 4.8.5
Date	JAN'09		
Scale	1:10,000 @ A1		

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Rev: 05



Ref. No.	Landscape Character Areas (Longford)
(L-3)	Shannon Basin / Lough Ree
(L-4)	Central Corridor
(L-5)	Inny Basin
(L-6)	Peatlands
(L-7)	Open Agricultural
Ref. No.	Landscape Character Areas (Westmeath)
(W-2)	Inny River Lowlands
(W-4)	Central Hills And Lakes
(W-5)	Royal Canal Corridor

Key to landscape elements	
	Areas of Ecological Value
	Contour lines
	Protected Views And Prospect (Westmeath County)
	(W-2) Landscape Character Areas (Westmeath)
	(L-3) Landscape Character Units (Longford)
	County Boundary
	Study Area Boundary

KEY TO ROUTE OPTIONS	
	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

DESIGNATED SITES KEY	
	NHA/pNHA
	cSAC
	SPA

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NOTE:
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National Development Plan 2007-2013

Department of Transport

National Roads Authority

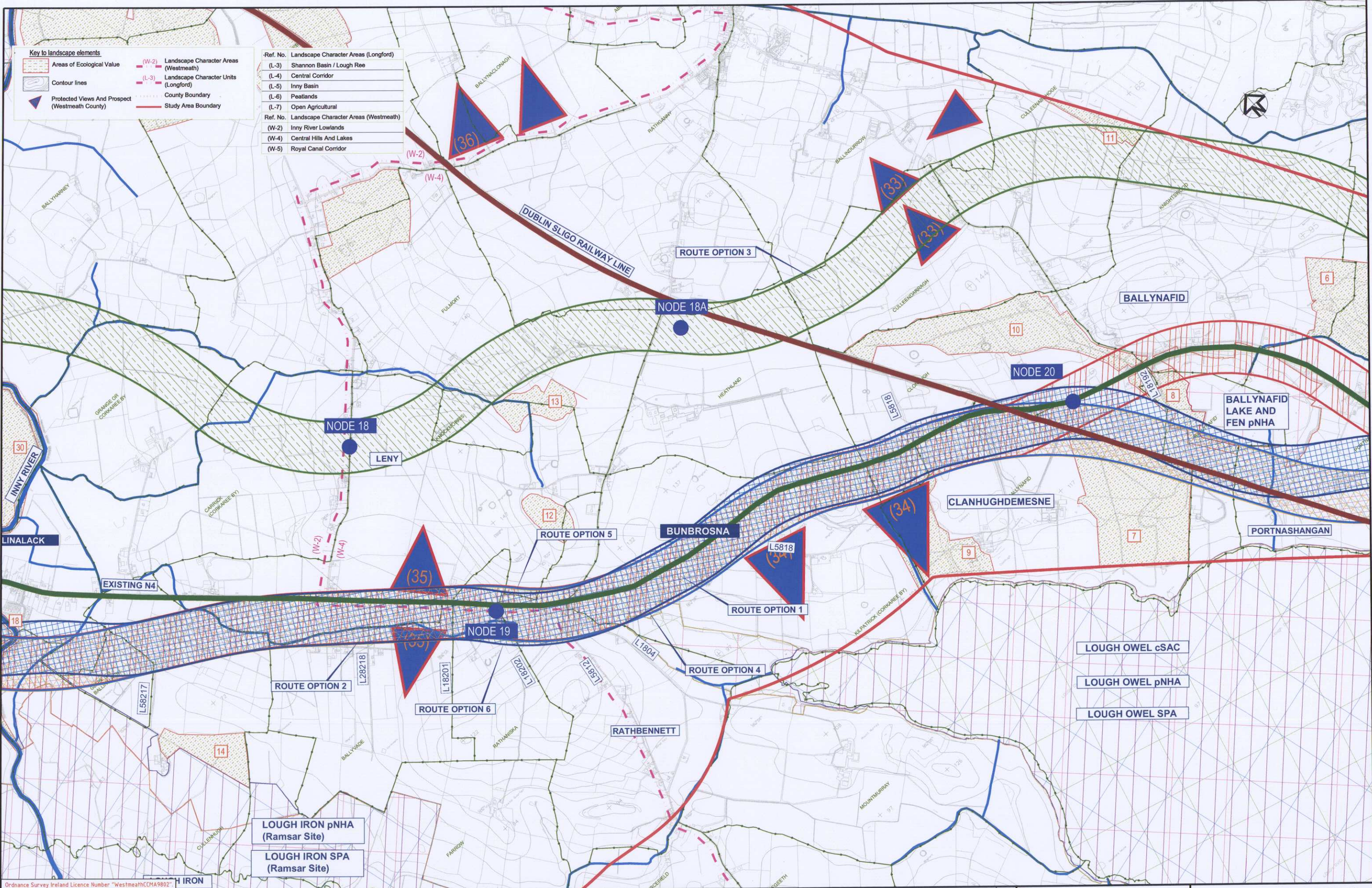
Project: N4 MULLINGAR TO LONGFORD (ROOSKY)		
Rev	Date	Description
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04	Sep'09	RCSR FINAL ISSUE
03	March'09	ISSUED FOR PEER REVIEW
02	Feb'09	RCSR FINAL ISSUE
01	29 Jan'09	RCSR FIRST ISSUE

Title: LANDSCAPE AND VISUAL IMPACT DETAIL (SHEET 6 OF 8)	
Drawn	PS/AA
Checked	AZ
Approved	TC
Date:	JAN'09
Scale:	1:10,000 @ A1

HYDER TOBIN CONSULTANTS

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Job No:	GD01038
File No:	RFig.4.8.1-4.8.8-GD01038-08D-05
Drawing No:	RFig 4.8.6
Rev	05



NOTE:

KEY TO ROUTE OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

DESIGNATED SITES KEY

- NHA/pNHA
- cSAC
- SPA

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NOTE: NO GEOGRAPHICAL REFERENCE TO PROTECTED VIEWS WITHIN LONGFORD COUNTY (SEE REPORT FOR DESCRIPTION), HOWEVER, INTERMITTENT SCENIC ROUTES 1.S-11, 1.S-12, 1.S-13 AND F.S-7 ARE LIKELY TO BE AFFECTED.

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Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

05	Dec'09	RCSR FINAL ISSUE	AZ
04	Sep'09	RCSR FINAL ISSUE	AZ
03	March'09	ISSUED FOR PEER REVIEW	AZ
02	Feb'09	RCSR FINAL ISSUE	AZ
01	29 Jan'09	RCSR FIRST ISSUE	AZ
Rev	Date	Description	App'd

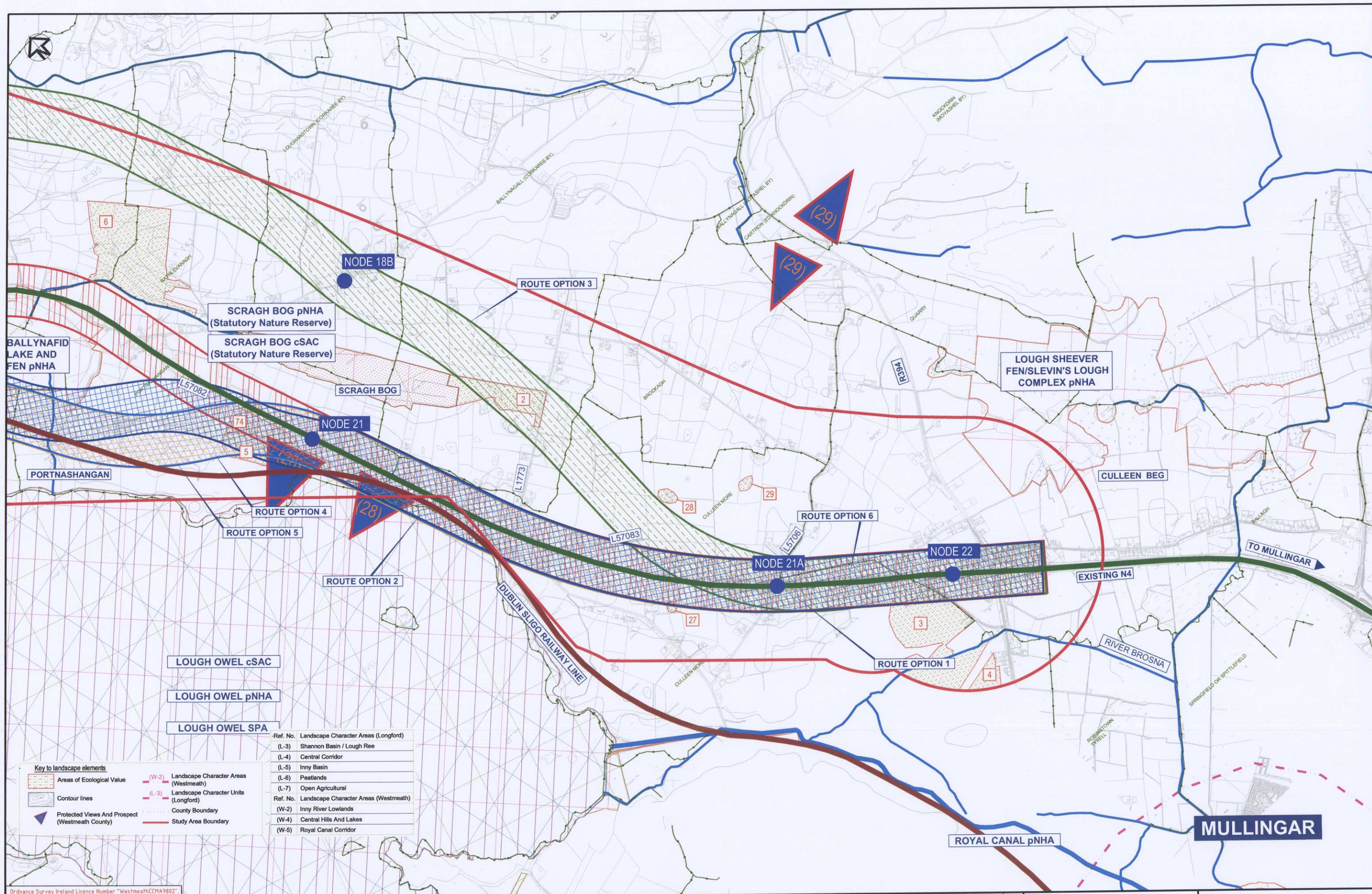
Title: **LANDSCAPE AND VISUAL IMPACT DETAIL**
(SHEET 7 OF 8)

Drawn:	PS/AA	Job No:	GD01038
Checked:	AZ	File No:	RFig.4.1-4.8-001038-080-05
Approved:	TC	Drawing No:	RFig 4.8.7
Date:	JAN'09		
Scale:	1/10,000 @ A1		

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Rev: 05



Ordnance Survey Ireland Licence Number "WestmeathCCMA9802"

NOTE:

KEY TO ROUTE OPTIONS	
[Red hatched box]	ROUTE CORRIDOR OPTION 1
[Orange hatched box]	ROUTE CORRIDOR OPTION 2
[Green hatched box]	ROUTE CORRIDOR OPTION 3
[Blue hatched box]	ROUTE CORRIDOR OPTION 4
[Purple hatched box]	ROUTE CORRIDOR OPTION 5
[Dark blue hatched box]	ROUTE CORRIDOR OPTION 6

DESIGNATED SITES KEY	
[Red line]	NHA/pNHA
[Orange line]	cSAC
[Green line]	SPA

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NOTE:
NO GEOGRAPHICAL REFERENCE TO PROTECTED VIEWS WITHIN LONGFORD COUNTY (SEE REPORT FOR DESCRIPTION), HOWEVER, INTERMITTENT SCENIC ROUTES L5-11, L5-12, L5-13 AND F5-7 ARE LIKELY TO BE AFFECTED.



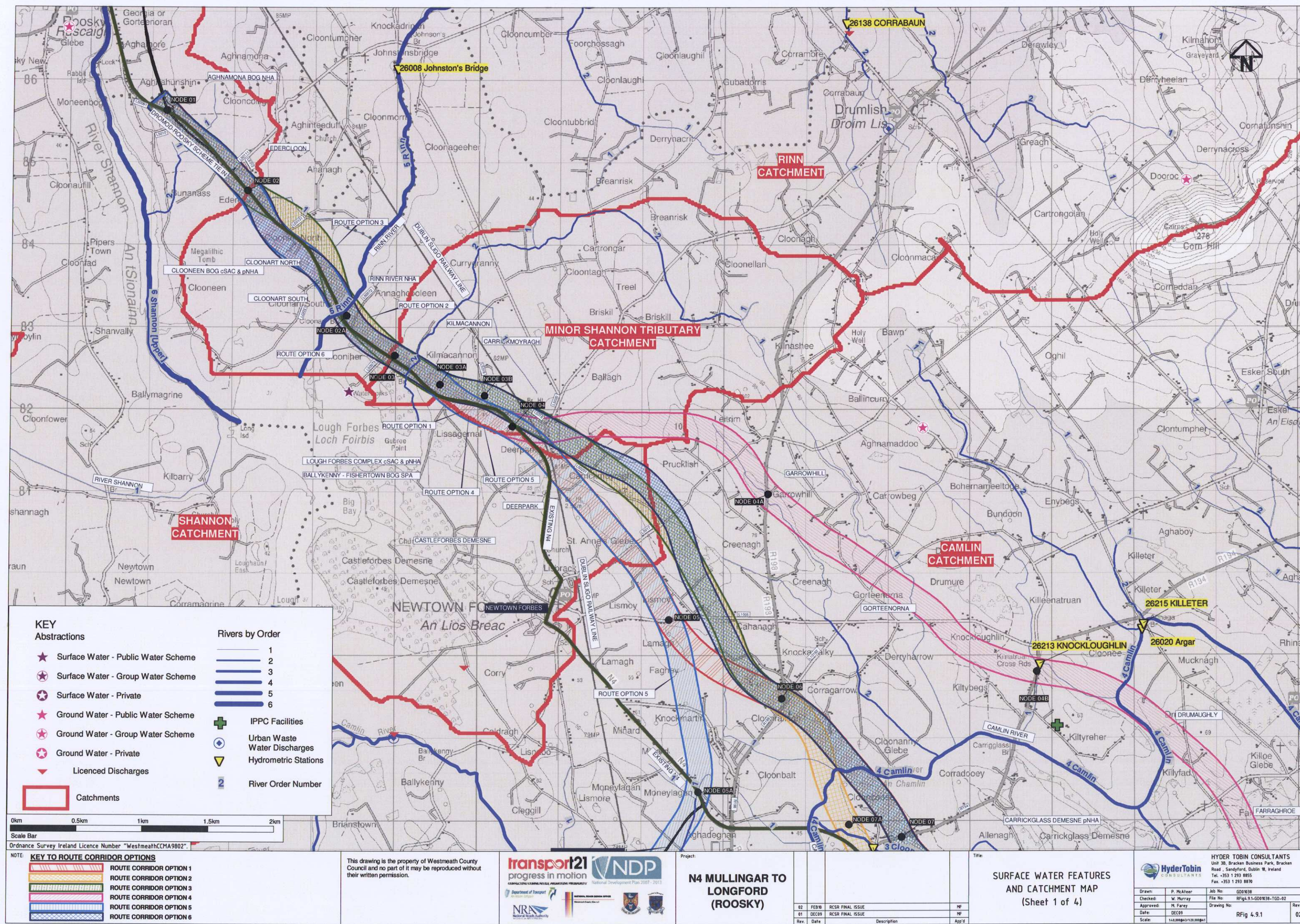
Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

Rev	Date	Description	App'd
05	Dec'09	RCR FINAL ISSUE	AZ
04	Sep'09	RCR FINAL ISSUE	AZ
03	March'09	ISSUED FOR PEER REVIEW	AZ
02	Feb'09	RCR FINAL ISSUE	AZ
01	29 Jan'09	RCR FIRST ISSUE	AZ

Title: **LANDSCAPE AND VISUAL IMPACT DETAIL**
(SHEET 8 OF 8)

Drawn: PS/AA	Job No: GD01038	Rev: 05
Checked: AZ	File No: RFig.4.8.1-4.8.8-GD01038-000-05	
Approved: TC	Drawing No: RFig 4.8.8	
Date: JAN'09		
Scale: 1:10,000 @ A1		

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KEY
Abstractions

- ★ Surface Water - Public Water Scheme
- ★ Surface Water - Group Water Scheme
- ★ Surface Water - Private
- ★ Ground Water - Public Water Scheme
- ★ Ground Water - Group Water Scheme
- ★ Ground Water - Private
- ▼ Licenced Discharges

Rivers by Order

- 1
- 2
- 3
- 4
- 5
- 6

- IPPC Facilities
- Urban Waste Water Discharges
- Hydrometric Stations
- River Order Number

Catchments

0km

0.5km

1km

1.5km

2km

Scale Bar

Ordnance Survey Ireland Licence Number "WestmeathCMA9802"

NOTE:
KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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NRA
National Roads Authority

Department of Transport

Project:		Title:	
N4 MULLINGAR TO LONGFORD (ROOSKY)		SURFACE WATER FEATURES AND CATCHMENT MAP (Sheet 1 of 4)	
02	FEB09	RCSR FINAL ISSUE	MF
01	DEC09	RCSR FINAL ISSUE	MF
Rev	Date	Description	App'd

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Drawn: P. McAteer

Checked: W. Murray

Approved: M. Farley

Date: DEC09

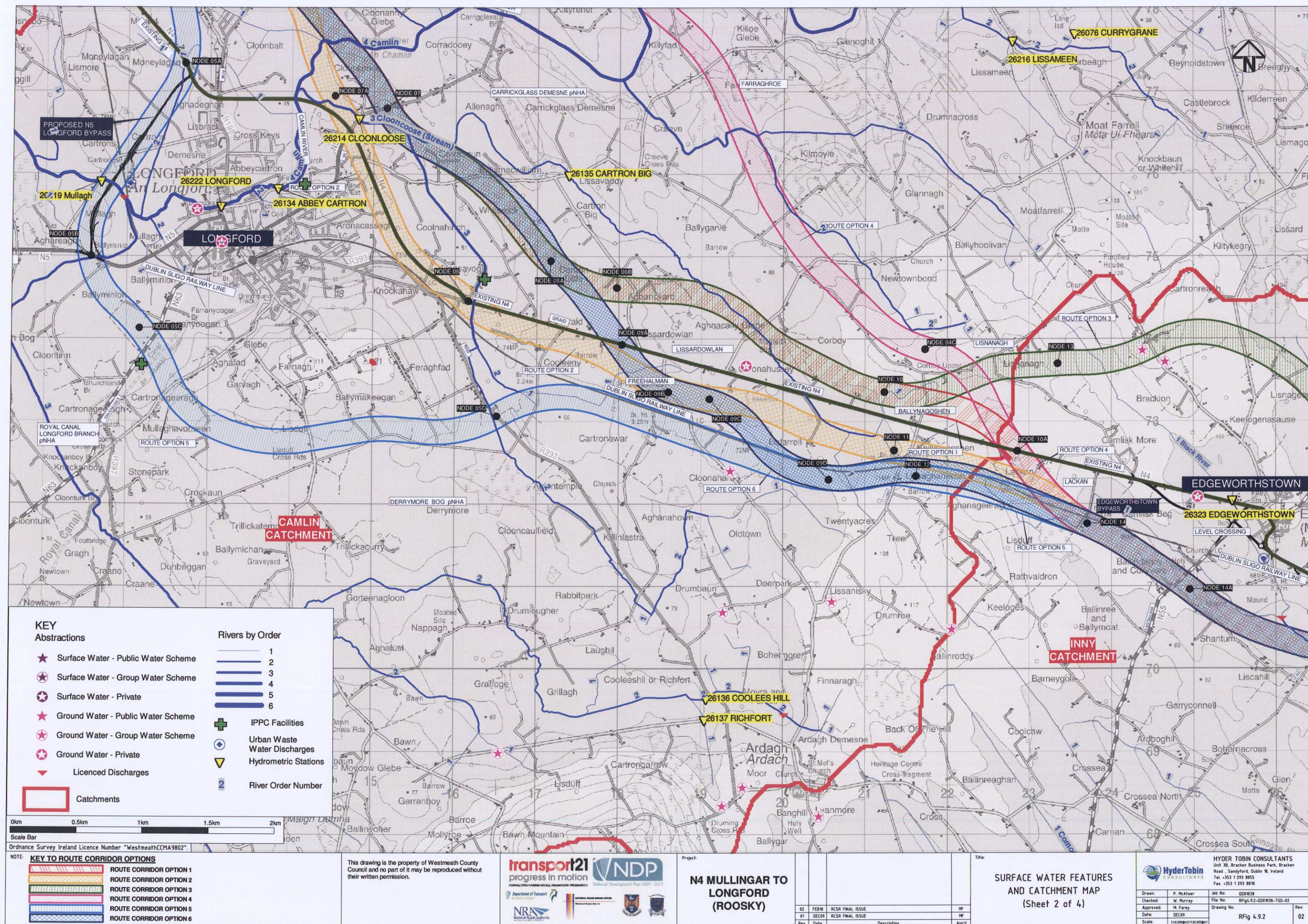
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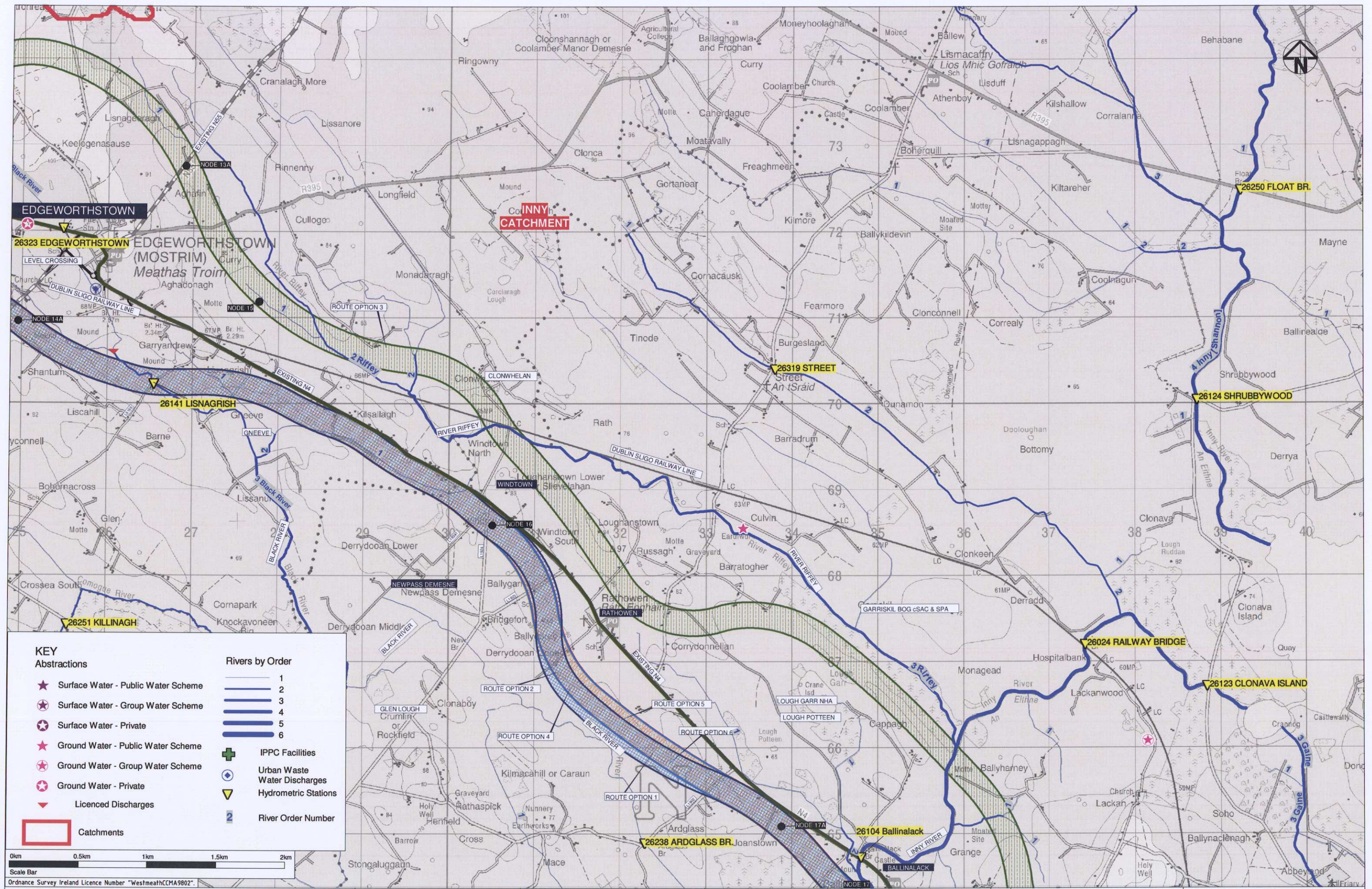
Job No: G001036

File No: RFG4.9.1-G001036-TG0-02

Drawing No: RFig 4.9.1

Rev: 02





KEY

★

Surface Water - Public Water Scheme

★

Surface Water - Group Water Scheme

★

Surface Water - Private

★

Ground Water - Public Water Scheme

★

Ground Water - Group Water Scheme

★

Ground Water - Private

▼

Licensed Discharges

Catchments

Rivers by Order

1

2

3

4

5

6

+

IPPC Facilities

+

Urban Waste Water Discharges

+

Hydrometric Stations

2

River Order Number

0km 0.5km 1km 1.5km 2km
Scale Bar

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

ROUTE CORRIDOR OPTION 1

ROUTE CORRIDOR OPTION 2

ROUTE CORRIDOR OPTION 3

ROUTE CORRIDOR OPTION 4

ROUTE CORRIDOR OPTION 5

ROUTE CORRIDOR OPTION 6

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Project: N4 MULLINGAR TO LONGFORD (ROOSKY)			
02	FEB09	RCSR FINAL ISSUE	HF
01	DEC08	RCSR FINAL ISSUE	HF
Rev.	Date	Description	App'd

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Drawn: P. McAree

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Approved: M. Murray

Date: DEC09

Scale: 1:50,000 (A3)

Job No: G009038

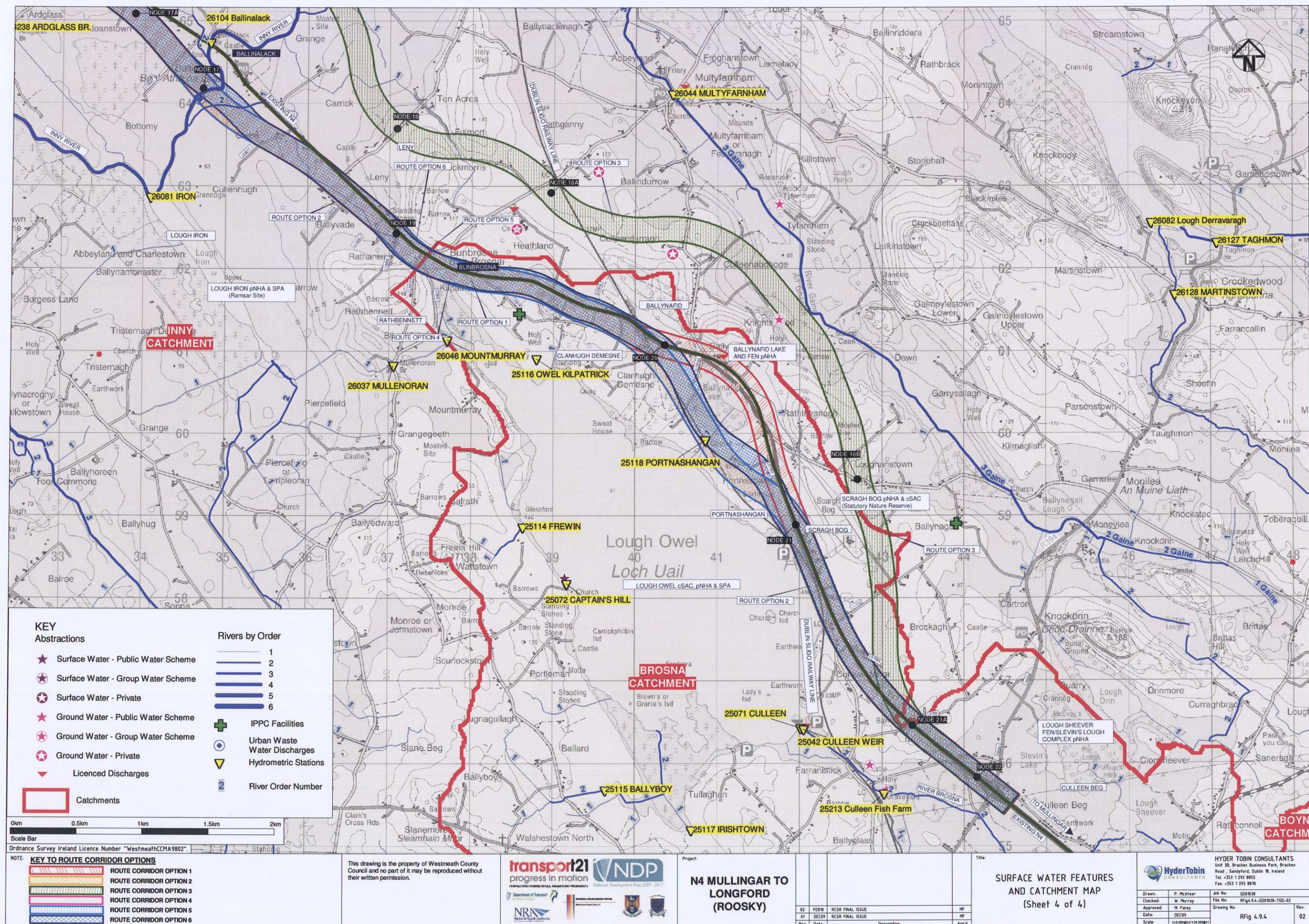
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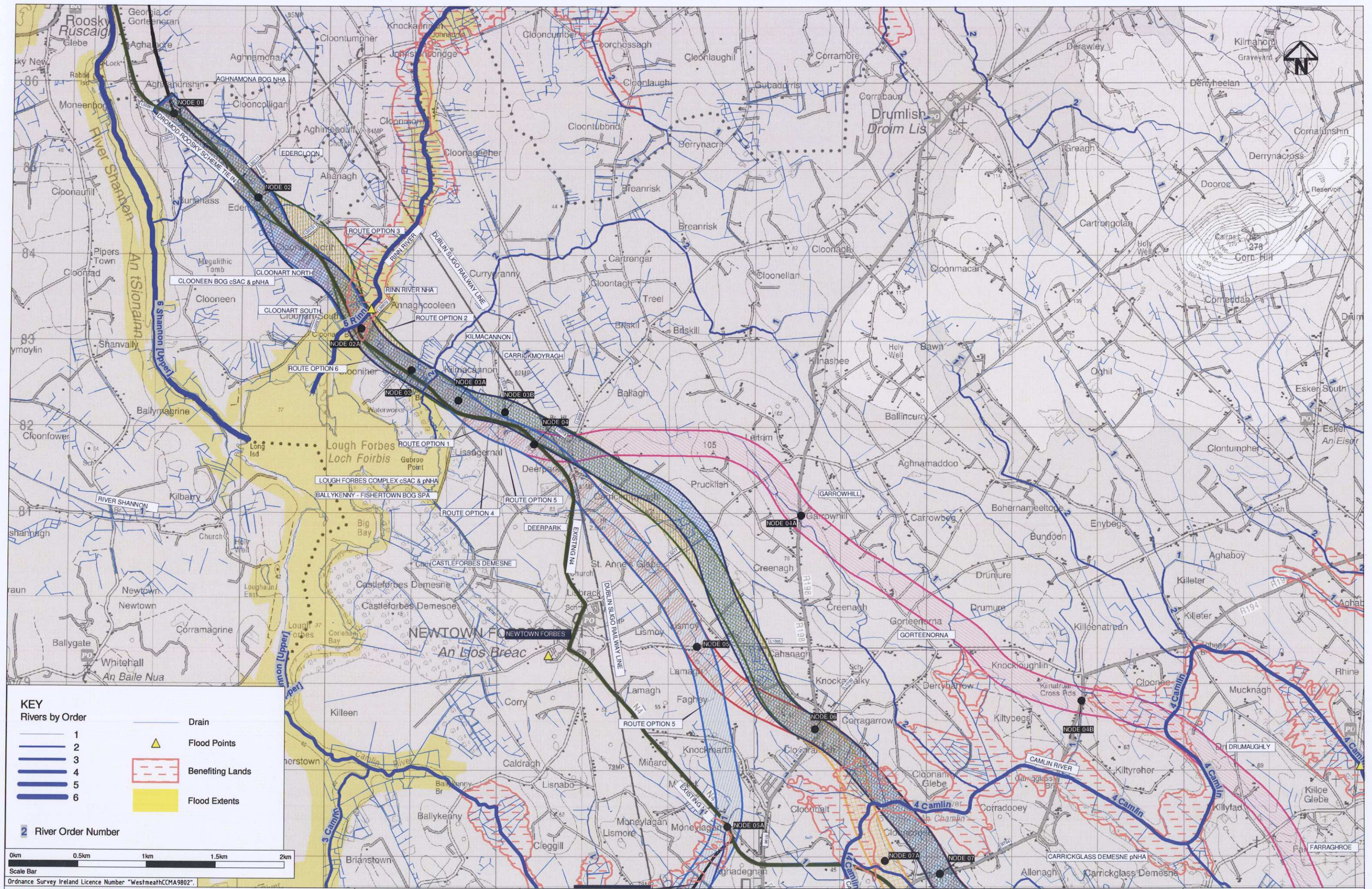
Drawing No:

RFG 4.9.3

02

SURFACE WATER FEATURES AND CATCHMENT MAP
(Sheet 3 of 4)





KEY

Rivers by Order

- 1
- 2
- 3
- 4
- 5
- 6

2 River Order Number

Drain

Flood Points

Benefiting Lands

Flood Extents

0km 0.5km 1km 1.5km 2km

Scale Bar

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802"

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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N4 MULLINGAR TO LONGFORD (ROOSKY)

Rev	Date	Description	App'd
02	FEB10	RCSR FINAL ISSUE	MF
01	DEC09	RCSR FINAL ISSUE	MF

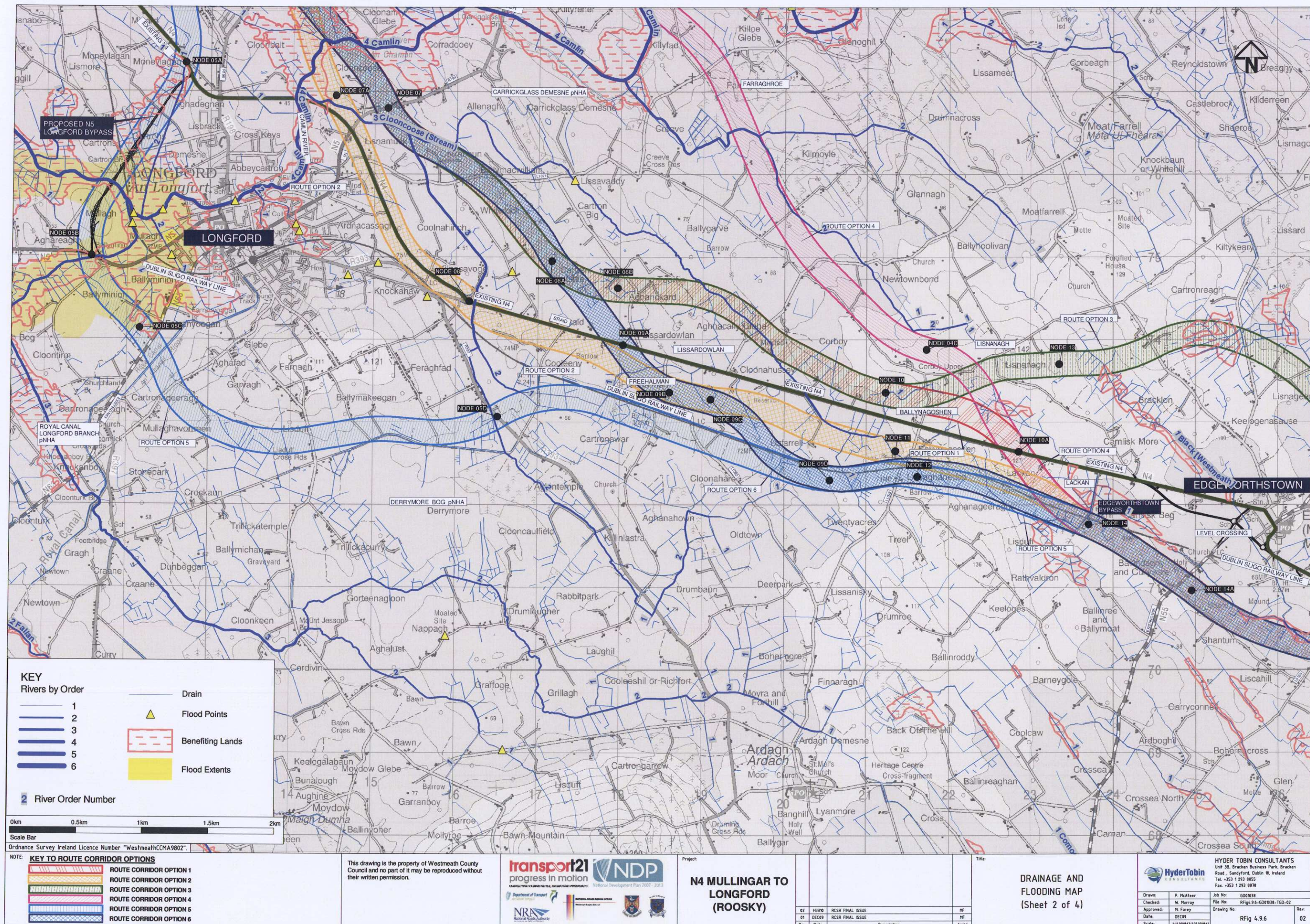
DRAINAGE AND FLOODING MAP
(Sheet 1 of 4)

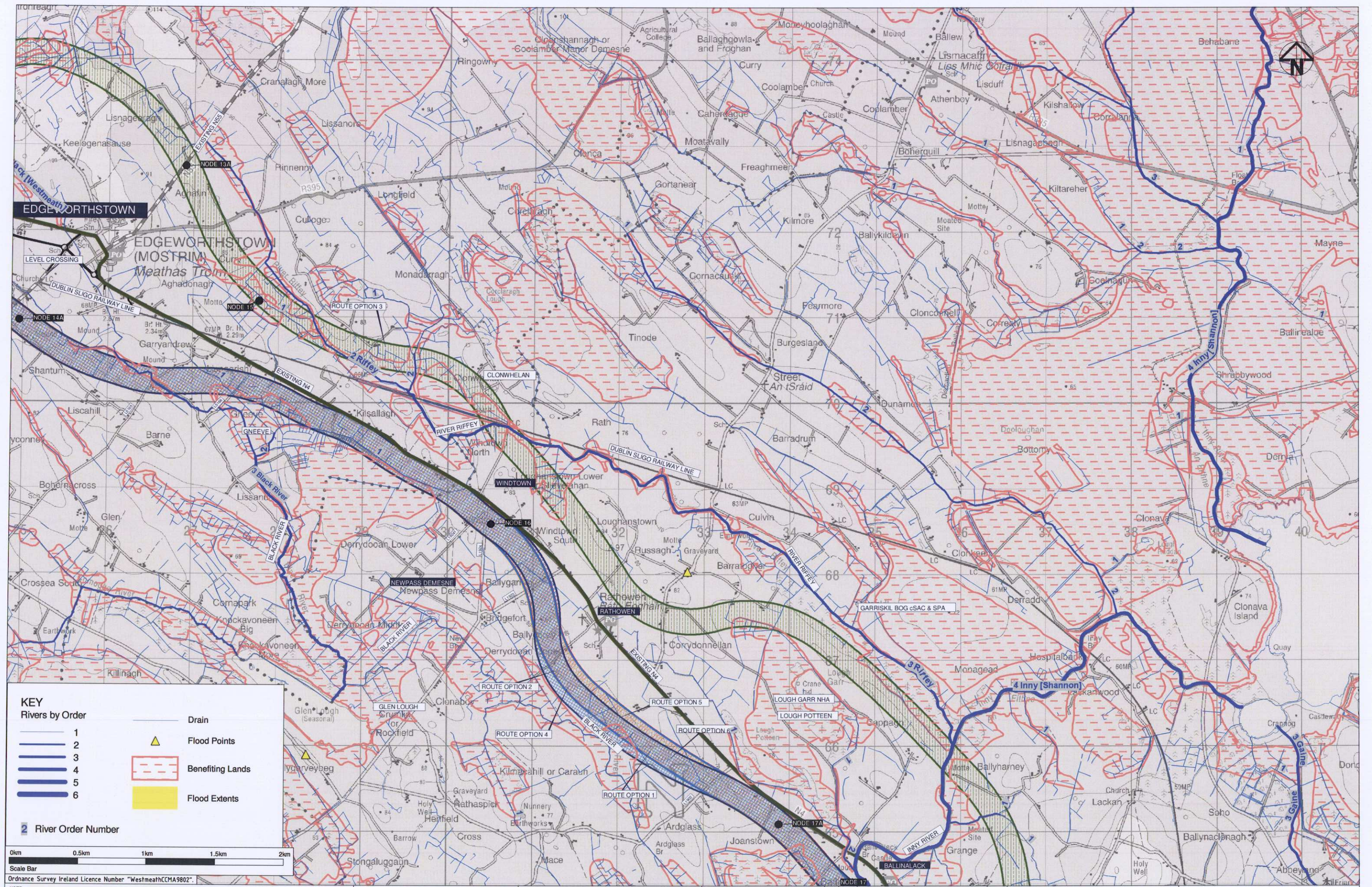
HYDER TOBIN CONSULTANTS
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Drawn: P. McAteer
Checked: W. Murray
Approved: M. Farley
Date: DEC09
Scale: 1:60,000 (AS1:100,000)

Job No: G001038
File No: RFG4.9.5-G001038-TGD-02
Drawing No:
RFG 4.9.5

Rev: 02





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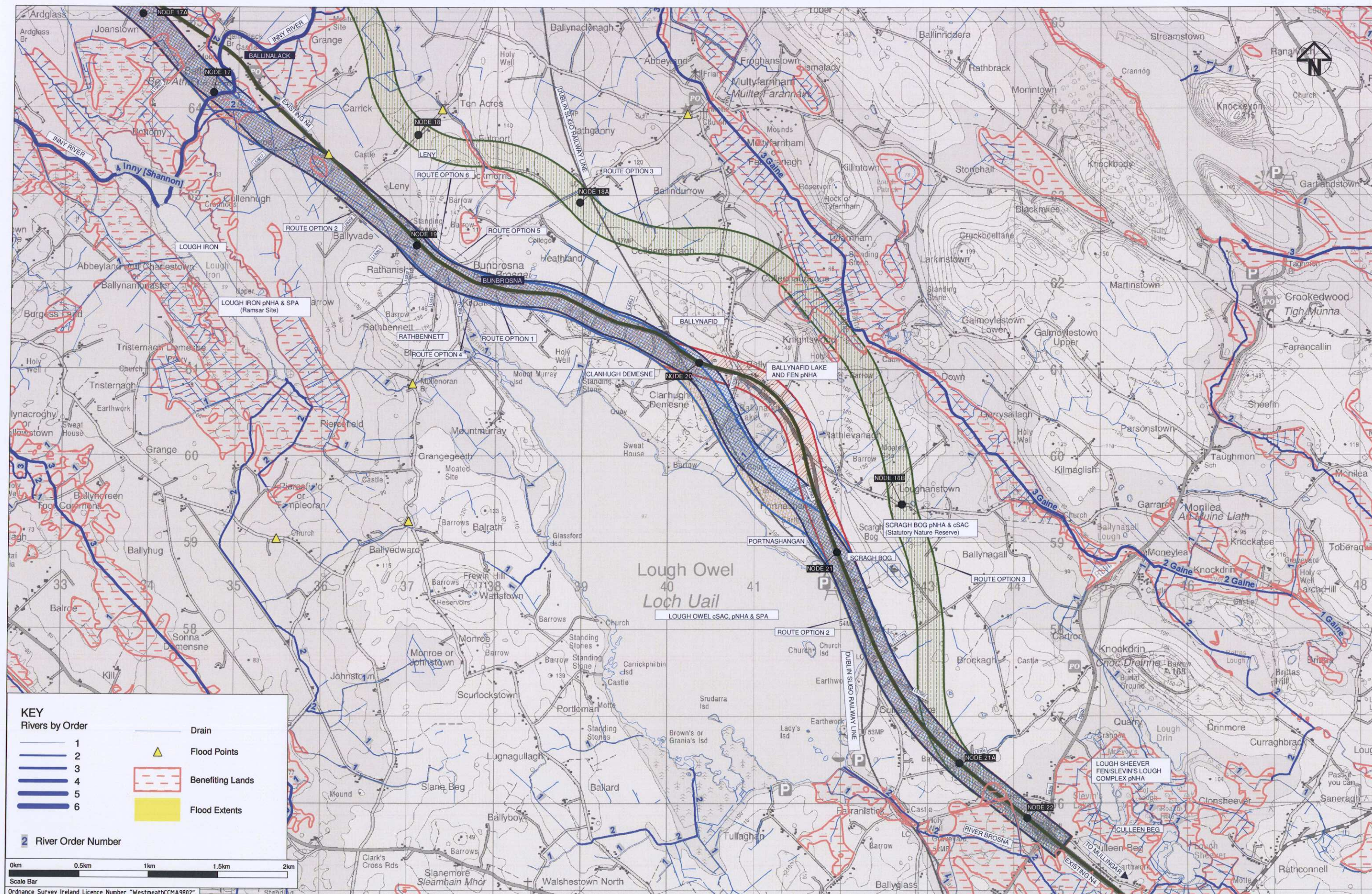


N4 MULLINGAR TO LONGFORD (ROOSKY)

02	FEB09	RCSR FINAL ISSUE	HF
01	DEC08	RCSR FINAL ISSUE	HF
Rev.	Date	Description	App'd

DRAINAGE AND FLOODING MAP (Sheet 3 of 4)

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Drawn: P. McAteer	Job No: G001038	Checked: W. Murray	File No: RFG4.9.7-G001038-TG0-02
Approved: M. Furey	Drawing No:	Date: DEC09	Rev: 02
Scale: 1:10,000 (A3/12,000)	Rfig 4.9.7		



- KEY**
Rivers by Order
- 1
 - 2
 - 3
 - 4
 - 5
 - 6
- 2 River Order Number
- Drain
- Flood Points
- Benefiting Lands
- Flood Extents

0km 0.5km 1km 1.5km 2km

Scale Bar

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802"

NOTE: **KEY TO ROUTE CORRIDOR OPTIONS**

- ROUTE CORRIDOR OPTION 1
- ROUTE CORRIDOR OPTION 2
- ROUTE CORRIDOR OPTION 3
- ROUTE CORRIDOR OPTION 4
- ROUTE CORRIDOR OPTION 5
- ROUTE CORRIDOR OPTION 6

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N4 MULLINGAR TO LONGFORD (ROOSKY)

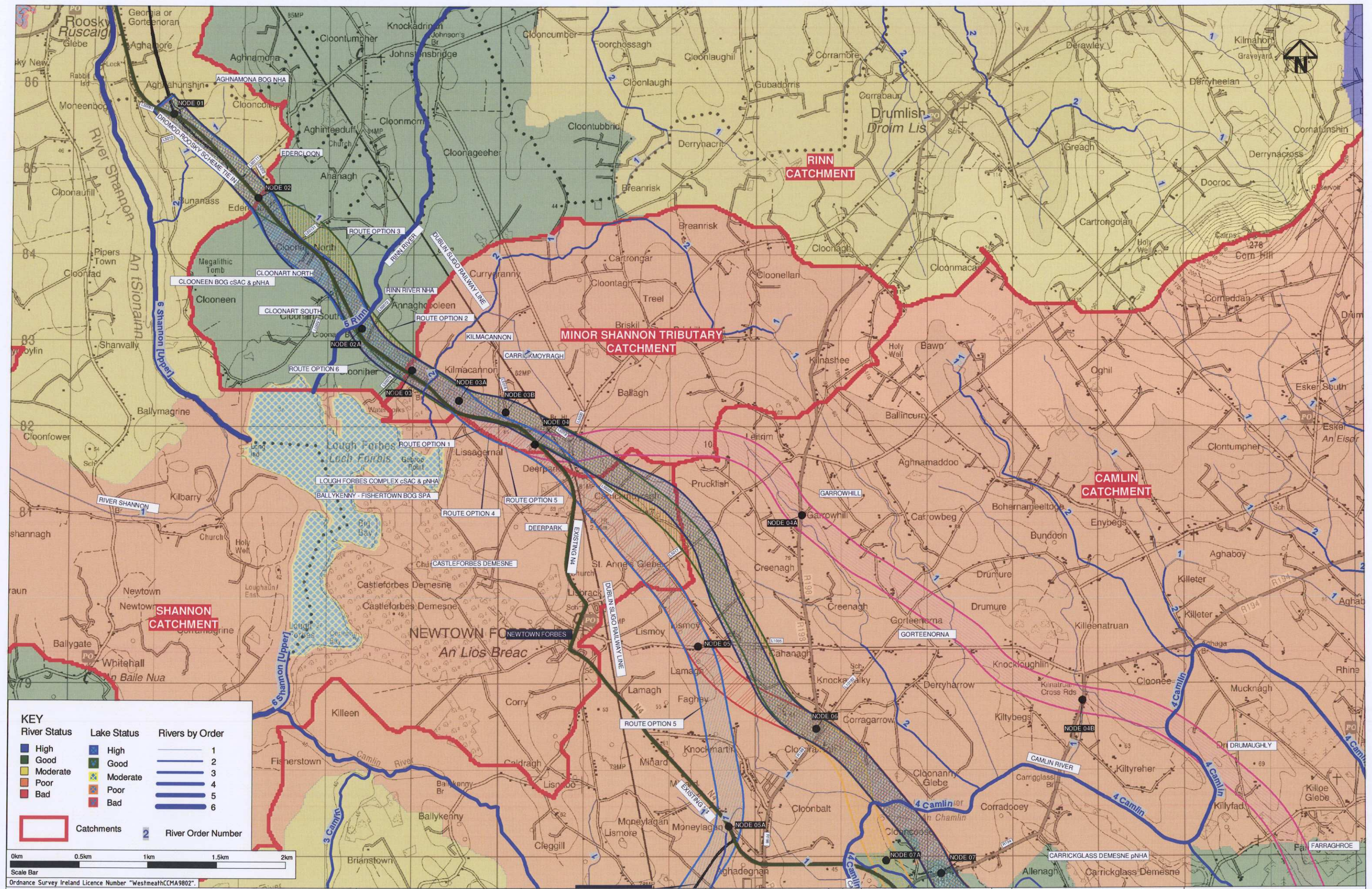
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02	FEB10	RCSR FINAL ISSUE	HF
01	DEC09	RCSR FINAL ISSUE	HF

DRAINAGE AND FLOODING MAP (Sheet 4 of 4)

Drawn:	P. McAree	Job No:	GD01038
Checked:	M. Murray	File No:	RF04.9.8-GD01038-TGD-02
Approved:	M. Murray	Drawing No:	
Date:	DEC09	RF04.9.8	
Scale:	1:50,000 (1:50,000)		

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02



KEY

River Status	Lake Status	Rivers by Order
High	High	1
Good	Good	2
Moderate	Moderate	3
Poor	Poor	4
Bad	Bad	5
		6

Catchments

River Order Number

0km 0.5km 1km 1.5km 2km

Scale Bar

Ordnance Survey Ireland Licence Number "WestmeathCMA9802"

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

ROUTE CORRIDOR OPTION 1
ROUTE CORRIDOR OPTION 2
ROUTE CORRIDOR OPTION 3
ROUTE CORRIDOR OPTION 4
ROUTE CORRIDOR OPTION 5
ROUTE CORRIDOR OPTION 6

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N4 MULLINGAR TO LONGFORD (ROOSKY)

02	FEB 10	RCSR FINAL ISSUE	HF
01	DEC 09	RCSR FINAL ISSUE	HF
Rev	Date	Description	App'd

SURFACE WATER QUALITY MAP (Sheet 1 of 4)

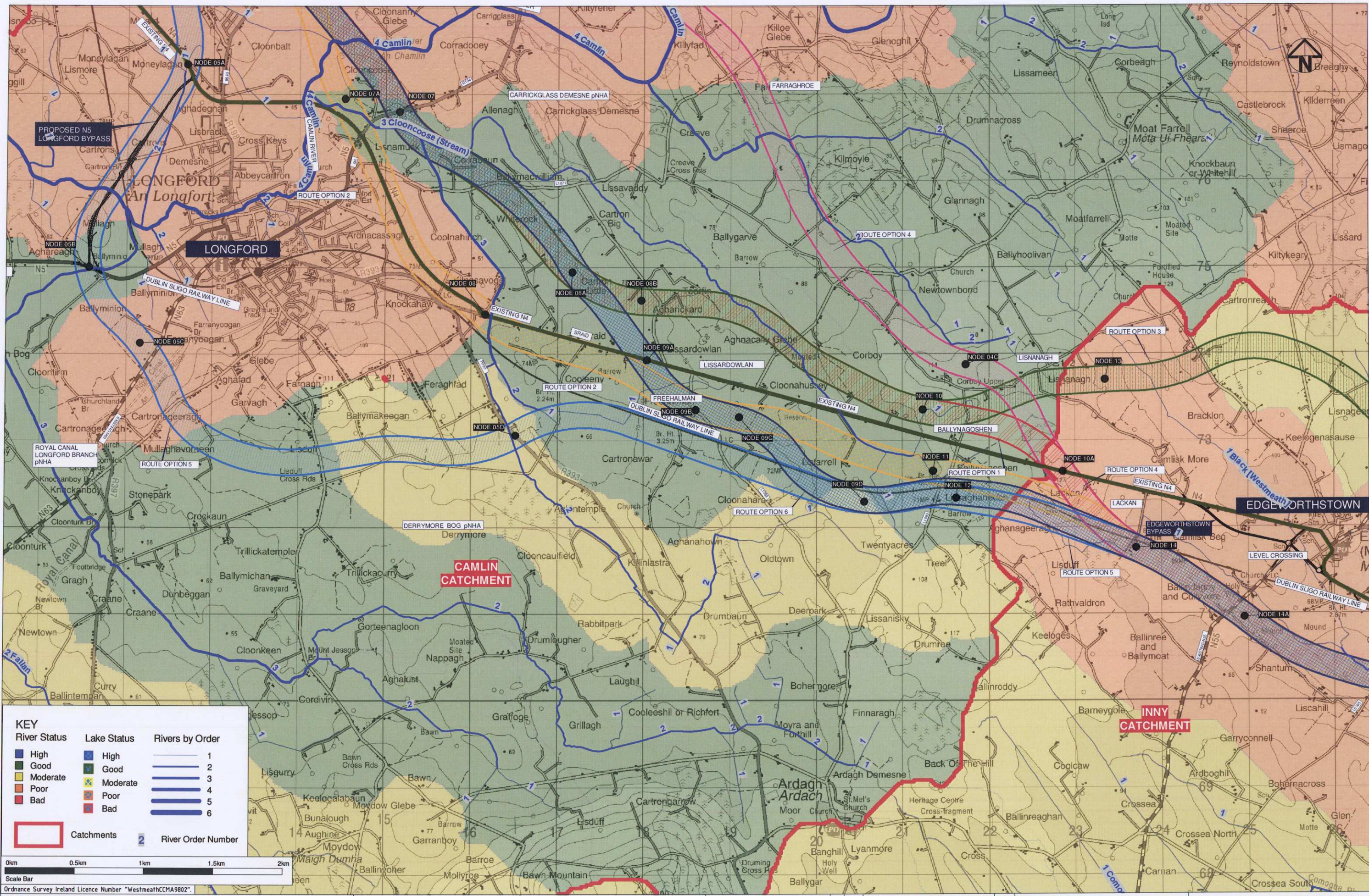
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Drawn: P. McAfee	Job No: G000038
Checked: M. Murray	File No: RFG4.9.9-G00038-TGD-02
Approved: M. Farry	Drawing No:
Date: DEC 09	Rev:
Scale: 1:10,000 (3/10/09)	RFG 4.9.9

02



KEY

River Status	Lake Status	Rivers by Order
High	High	1
Good	Good	2
Moderate	Moderate	3
Poor	Poor	4
Bad	Bad	5

Catchments

River Order Number

0km 0.5km 1km 1.5km 2km

Scale Bar

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802"

NOTE: KEY TO ROUTE CORRIDOR OPTIONS

ROUTE CORRIDOR OPTION 1
ROUTE CORRIDOR OPTION 2
ROUTE CORRIDOR OPTION 3
ROUTE CORRIDOR OPTION 4
ROUTE CORRIDOR OPTION 5
ROUTE CORRIDOR OPTION 6

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National Development Plan 2007-2013

Department of Transport

NRA
National Roads Authority

N4 MULLINGAR TO LONGFORD (ROOSKY)

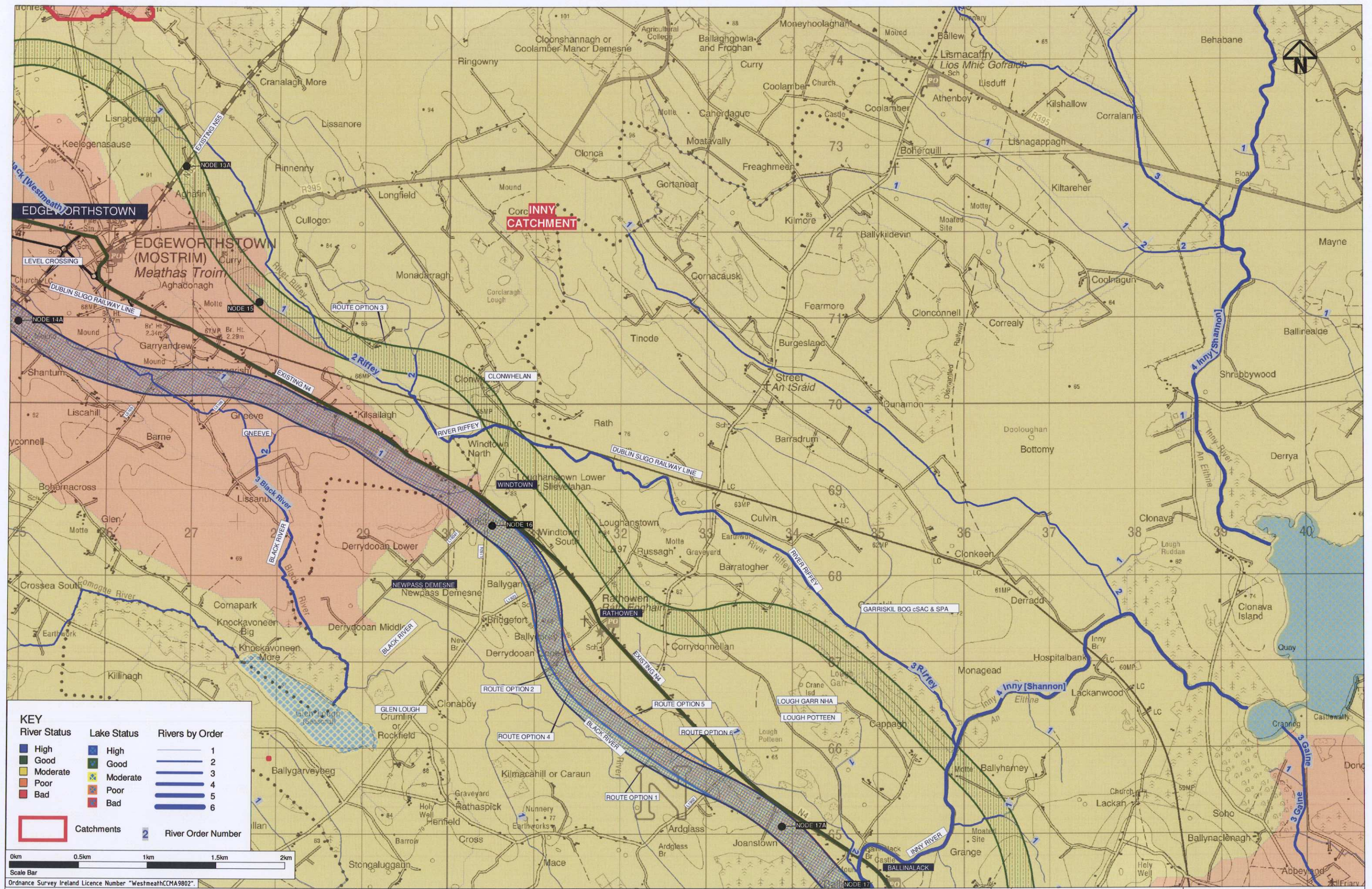
Rev	Date	Description	App'd
02	FEB/10	RCSA FINAL ISSUE	MF
01	DEC/09	RCSA FINAL ISSUE	MF

SURFACE WATER QUALITY MAP
(Sheet 2 of 4)

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Drawn	Checked	App'd	Date	Scale
P. McAteer	W. Murray	M. Farcy	DEC/09	1:10,000 (A3/120,000)

Job No: G009038
File No: RFG4.9.10-G009038-TGD-02
Drawing No: RFG 4.9.10
Rev: 02



KEY

River Status	Lake Status	Rivers by Order
High	High	1
Good	Good	2
Moderate	Moderate	3
Poor	Poor	4
Bad	Bad	5
		6

Catchments

River Order Number

0km 0.5km 1km 1.5km 2km
Scale Bar

Ordnance Survey Ireland Licence Number "WestmeathCCMA9802".

KEY TO ROUTE CORRIDOR OPTIONS

ROUTE CORRIDOR OPTION 1	ROUTE CORRIDOR OPTION 2	ROUTE CORRIDOR OPTION 3	ROUTE CORRIDOR OPTION 4	ROUTE CORRIDOR OPTION 5	ROUTE CORRIDOR OPTION 6

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NATIONAL DEVELOPMENT PLAN 2007-2013

NDP
NATIONAL DEVELOPMENT PLAN 2007-2013

NRA
NATIONAL RIVER AUTHORITY

Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

Rev.	Date	Description	App'd
02	FEB09	RCSR FINAL ISSUE	MF
01	DEC09	RCSR FINAL ISSUE	MF

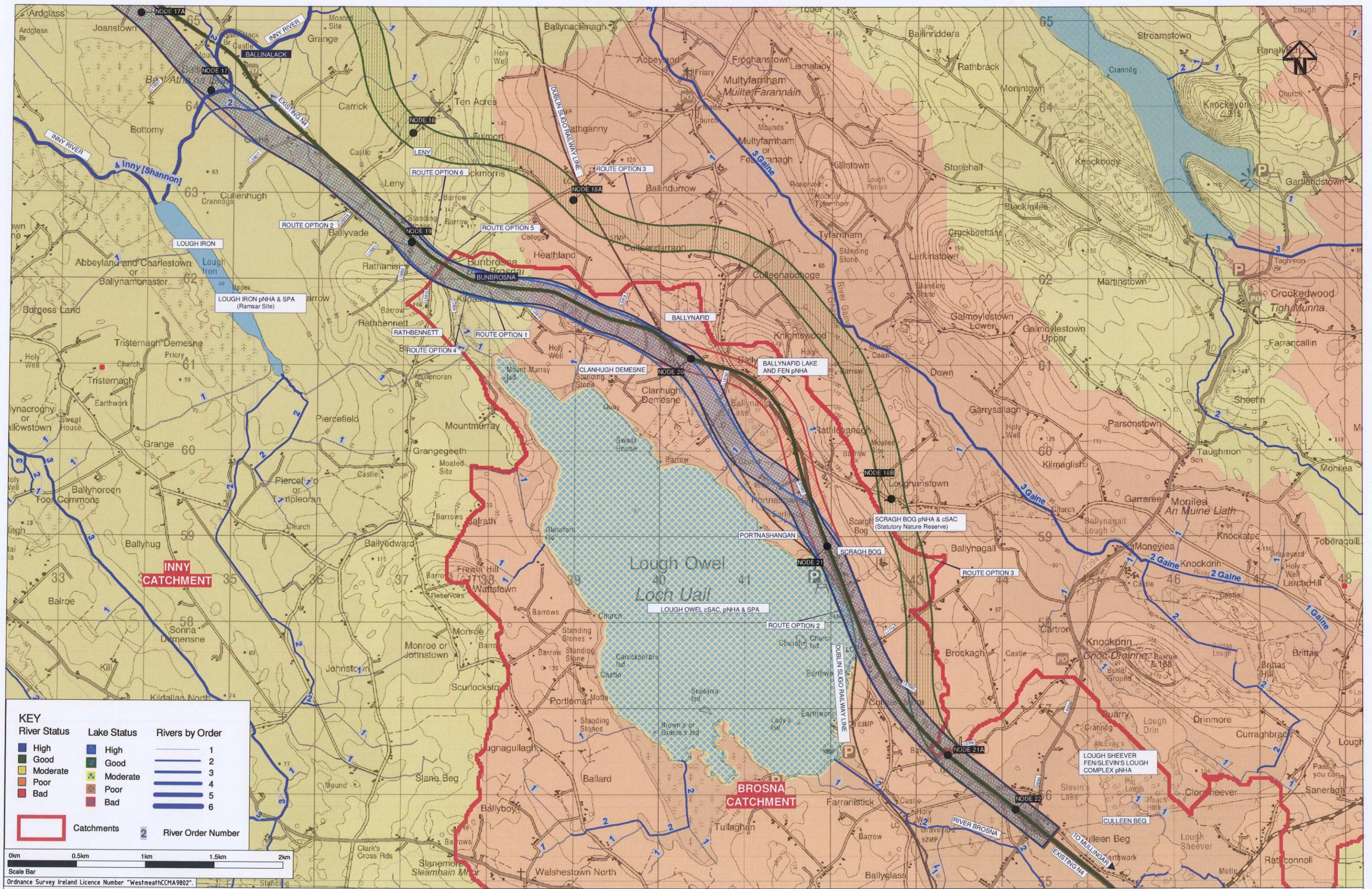
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Drawn:	P. McAree
Checked:	M. Murray
Approved:	M. Murray
Date:	DEC09
Scale:	1:50,000 (A3) 1:25,000 (A4)

SURFACE WATER QUALITY MAP
(Sheet 3 of 4)

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Job No.	File No.	Rev.
000038	RFigs.9.11-G00038-TGD-02	02

RFig 4.9.11



KEY		
River Status	Lake Status	Rivers by Order
High	High	1
Good	Good	2
Moderate	Moderate	3
Poor	Poor	4
Bad	Bad	5
		6
Catchments		River Order Number

0km 0.5km 1km 1.5km 2km
Scale Bar
Ordnance Survey Ireland Licence Number "WestmeathCMA9802".

NOTE: KEY TO ROUTE CORRIDOR OPTIONS	
	ROUTE CORRIDOR OPTION 1
	ROUTE CORRIDOR OPTION 2
	ROUTE CORRIDOR OPTION 3
	ROUTE CORRIDOR OPTION 4
	ROUTE CORRIDOR OPTION 5
	ROUTE CORRIDOR OPTION 6

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LEADING IN INNOVATION, PROMOTING PROGRESS

National Development Plan 2007-2013
Department of Transport
National Roads Authority

Project: **N4 MULLINGAR TO LONGFORD (ROOSKY)**

02 FEB10 RCSR FINAL ISSUE	MF		
01 DEC09 RCSR FINAL ISSUE	MF		
Rev.	Date	Description	App'd

Title: **SURFACE WATER QUALITY MAP (Sheet 4 of 4)**

Drawn: P. McAteer	Job No: G001038
Checked: W. Murray	File No: Rfig 4.9.12-G001038-TGD-02
Approved: M. Farry	Drawing No:
Date: DEC09	Rfig 4.9.12
Scale: 1:50,000 (A3)	02

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