

<b>N60 Balla to Claremorris Road Realignment at Heathlawn Scheme</b>	<b>Method Statement: Installation of Fencing</b>	<i>Issue</i> <b>0</b>	<i>Date</i> <b>12/5/14</b>
		<i>Ident No.</i> <b>MS-N60-02</b>	

## Method Statement Installation of Fencing

Version Issue.			
Issue	Date	Version Details	Revised by
0	12/5/14	First Issue	

Acceptance / Approvals.			
	Name	Signature	Date
Prepared by:	M Blackweir		12/05/2014
Reviewed by:	A McGinley		12/05/2014
Accepted by:	D Meade		12/05/2014

<b>N60 Balla to Claremorris Road Realignment at Heathlawn Scheme</b>	<b>Method Statement: Installation of Fencing</b>	<i>Issue</i> <b>0</b>	<i>Date</i> <b>12/5/14</b>
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**Title:** Installation of Fencing

**Location:** N60 Balla to Claremorris Road Realignment at Heathlawn Scheme

**Task at Hand**

This method statement outlines the procedure and methodology for the work involved in the erection and installation of boundary fencing within the scope of the contract.

**Timing of Task**

To be advised subject to Contractor appointment.

**Supervision of Task (Typical)**

	<b><u>Name</u></b>	<b><u>Contact Number</u></b>
Contracts Manager:	TBC	
Site Agent:	TBC	
Foreman:	TBC	
Site Engineer:	TBC	
Suitably Qualified Ecologist:	TBC	

**Employees Involved (Typical)**

Fencing Manager  
Site Engineer  
Fencing Foreman  
General Operatives  
Tractor Operator  
Excavator Operator

**Plant & Equipment to be used (Typical)**






Tracked excavator  
Tractor and trailer  
Post driver  
Chainsaw  
Small tools (hammers, nail guns, wire cutters etc.)

**Specific Training**

All site personnel shall have FAS 'Safe Pass' certification.  
All Excavator, Dumper drivers shall have CSCS certification.  
CSCS certified representative in underground service location

N60 Balla to Claremorris Road Realignment at Heathlawn Scheme	<b>Method Statement: Installation of Fencing</b>	Issue <b>0</b>	Date <b>12/5/14</b>
		Ident No. <b>MS-N60-02</b>	

### Personal Protective Equipment

Safety Gloves	Hearing Protection	Eye Protection	Respiratory Protection	Coveralls	Other
					Hi Vis- Vest Hard Hats Boots
Yes	Where required	Yes	NO	No	Yes

### Methodology

#### Installation of Fencing

- All personnel entering the site shall have received site safety induction and have attended a job toolbox talk.
- The Fencing Site Engineer will issue a Permit to Dig and advise those carrying out the works of general health and safety issues and the risks associated with services in the area of excavation.

#### **Construction Sequence**

- Fence lines will be set out by a Setting Out Engineer or Surveyor. Pegs (marked PFL) will be placed at all changes in direction of the fence line and at appropriate centres for arcs in the fence line. The locations of gates will also be set out.
- Prior to entering lands the Section Foreman will liaise with relevant landowners in relation to the system implemented to protect the livestock. A Permit to Dig (PTD) will to be issued to the foreman of the fencing crew by the Section Engineer prior to fencing works commencing.
- Timber post and rail fence shall be erected by a tractor/excavator mounted hydraulic post driver where ground conditions allow. All machines shall work from within the CPO line only. This post driver shall have a special cap fitted to suit and protect the top of the post. Temporary posts shall be set up with a line wire at bottom rail level to achieve horizontal and vertical alignment.
- The locations of the posts shall be determined by laying out rails on the ground along the proposed fence line. Posts shall be driven or fixed at the ends of the rails.

<b>N60 Balla to Claremorris Road Realignment at Heathlawn Scheme</b>	<b>Method Statement: Installation of Fencing</b>	<i>Issue</i> <b>0</b>	<i>Date</i> <b>12/5/14</b>
		<i>Ident No.</i> <b>MS-N60-02</b>	

- To allow for curves in both the horizontal and vertical alignment the rails shall be overlapped by approximately 50mm every fourth rail. This will avoid a situation where rails will not meet in the centre of the posts.
- After erection of permanent posts the rails will be fixed. Where rails have to be cut they shall be treated with two coats of preservative. Timber rails shall be fixed to posts by nailing/nail gun. Where end splitting of the rails occurs the affected rail sections shall be replaced and pre-drilling of rails shall be used.
- If after using the hydraulic post driver the post refuses to enter the ground to the required depth then the method of erection is to excavate and backfill the posthole. The posts used for the hydraulic post driver would also be used for the 'excavate and backfill' method.
- Posts falling in rock shall have holes excavated to a depth of at least 700mm and the post hole backfilled with concrete after the post has been positioned.
- Chainlink mesh will be fixed to the rails during fencing operation or by a separate crew following behind.
- For Mammal Proof fencing a 300mm wide by 200mm deep trench will be excavated along the line of the fence line on the opposite side of the fence posts LMA area. This will happen after the posts and rails are installed. The fence mesh will be placed so that it returns horizontally across the bottom of the 300mm trench and up the fence. The trench will be backfilled over the mesh and the mesh will be fastened up the height of each adjacent post.
- Gates will be provided to comply with the details specified in the contract drawings. These shall be adequately supported at the closing end until the concrete placed around the posts has set.
- Access to site shall be via approved access points.(Refer to figure 2 in Appendix A)
- All works will be executed within the permanent fencing boundary.

<b>N60 Balla to Claremorris Road Realignment at Heathlawn Scheme</b>	<b>Method Statement: Installation of Fencing</b>	<i>Issue</i> <b>0</b>	<i>Date</i> <b>12/5/14</b>
		<i>Ident No.</i> <b>MS-N60-02</b>	

**Potential Ecological / Environmental Impacts, including impacts on Balla Turlough cSAC and/ or other European sites**  
**NIS / EAR: Relevant Extracts:**

**Potential Impacts (in the absence of below Mitigation):**

- Potential Surface & groundwater contamination during construction.
- Potential Increase in run-off volumes to Turlough during construction.
- Pollution from Surface Water run-off during Construction.
- Direct Loss of Habitats/Flora species during Construction.

**Mitigation:**

- Construction works carried out in the vicinity of the Turloughs will be monitored by a suitably qualified ecologist.
- To reduce potential increases in flows into the drainage system and downstream Turloughs during construction, the period of exposure of bare areas and uncontrolled runoff from new hardstanding areas will be limited. Early covering/seeding/planting of exposed surfaces will be undertaken.
- Material stockpiles will be kept to a minimum size, covered and located at least 10m from the drainage system and 100m from Turloughs.
- To prevent contaminated or silt-laden runoff from entering the Turloughs, a range of temporary measures will be implemented, including silt fences, cut-off ditches, silt traps, straw bales, entrapment matting and drainage to vegetated areas.
- Runoff will be controlled and, if required, directed to settlement ponds or sumps. Any temporary attenuation and treatment facilities will be designed and implemented in accordance with CIRIA C697 (2007). All temporary treatment systems will be regularly inspected and maintained;
- The extent of construction activities will be controlled to limit vegetation removal and the exposure and/or compaction of soils. Land surrounding the immediate construction area will be fenced off, or otherwise demarcated, to prevent inadvertent intrusion from construction plant.
- Construction works will be avoided during prolonged periods of very heavy rainfall adjacent to the Balla Turlough cSAC and Un-named Turlough.
- No construction plant or construction vehicles to enter the Balla Turlough cSAC boundary other than where this boundary has already been generally encroached by the existing road.
- Refueling of machinery shall be carried out off-site, or when on-site not within 100m of Turlough habitat.
- All fuels, oils, greases, hydraulic fluids and chemical storage areas will be stored in bunded compounds/areas on impermeable bases at least 10m from the proposed drainage system and 100m from the cSAC and Un-named Turlough.
- No machinery to enter Turlough habitats, no temporary access or haul routes are located in Turlough habitats and no temporary storage areas, plant or other obstacles are located within Turlough habitats.

<b>N60 Balla to Claremorris Road Realignment at Heathlawn Scheme</b>	<b>Method Statement: Installation of Fencing</b>	<i>Issue</i> <b>0</b>	<i>Date</i> <b>12/5/14</b>
		<i>Ident No.</i> <b>MS-N60-02</b>	

- Monitoring of turbidity (suspended solids) levels in Balla Turlough SAC and the Un-named Turlough will be undertaken on a monthly basis for a minimum of 6 months prior to construction and will include monitoring during the winter season when Turlough water levels are most likely to be present. Monitoring will also be undertaken on a weekly basis during construction for turbidity (suspended solids). In the event of suspended solids concentrations that are higher than the 95th %ile of those monitored during the pre-construction monitoring period, a review of the Sediment and Erosion Control measures and plan will be implemented and additional sediment control measures put in place as required. Daily visual inspections of Balla Turlough SAC and the Un-named Turlough will also be undertaken during the construction phase to confirm the absence of sediment from construction works.
- The N60 Balla to Claremorris Erosion and Sediment Control Plan shall be implemented to prevent sediment or pollutants from reaching the Balla or Un-named Turloughs.
- The field containing Black Bog Rush on the northern side of the carriageway at Ch. 1,150-1250 is shown in 32103901/EAR/Figure 5.1 (Contained in Appendix A). The setting out of CPO fencing and construction of the soakaway near Ch. 1,150 will be supervised by an ecologist to identify the Black Bog Rush and to reduce impacts from machinery movements. A portion of the field containing Black Bog Rush will be fenced off and signs will be erected to notify staff that no materials will be stored within the exclusion zone.
- All mitigation contained within the N60 Environmental Assessment Report and NATURA Impact Statement shall be implemented in full.

<b>N60 Balla to Claremorris Road Realignment at Heathlawn Scheme</b>	<b>Method Statement: Installation of Fencing</b>	<i>Issue</i> <b>0</b>	<i>Date</i> <b>12/5/14</b>
		<i>Ident No.</i> <b>MS-N60-02</b>	

### **Specific Identified Residual Risks for Civil Works**

The following is a list of identified particular risks associated with above works

Underground Services  
Plant and Equipment  
Biological Substances  
Manual Handling

Appendix B (attached) gives detailed risk assessments for risks identified above.

<b>N60 Balla to Claremorris Road Realignment at Heathlawn Scheme</b>	<b>Method Statement: Installation of Fencing</b>	<i>Issue</i> <b>0</b>	<i>Date</i> <b>12/5/14</b>
		<i>Ident No.</i> <b>MS-N60-02</b>	

Relaying of Information; to each operative:

"I wish to confirm that the information in this method statement has been communicated to me and I have understood it. I shall bring to the attention of the supervisor any issues, which may affect Safety whilst carrying out the task".

Information provided by Supervisor; \_\_\_\_\_

NAME (BLOCK)	Signature	DATE

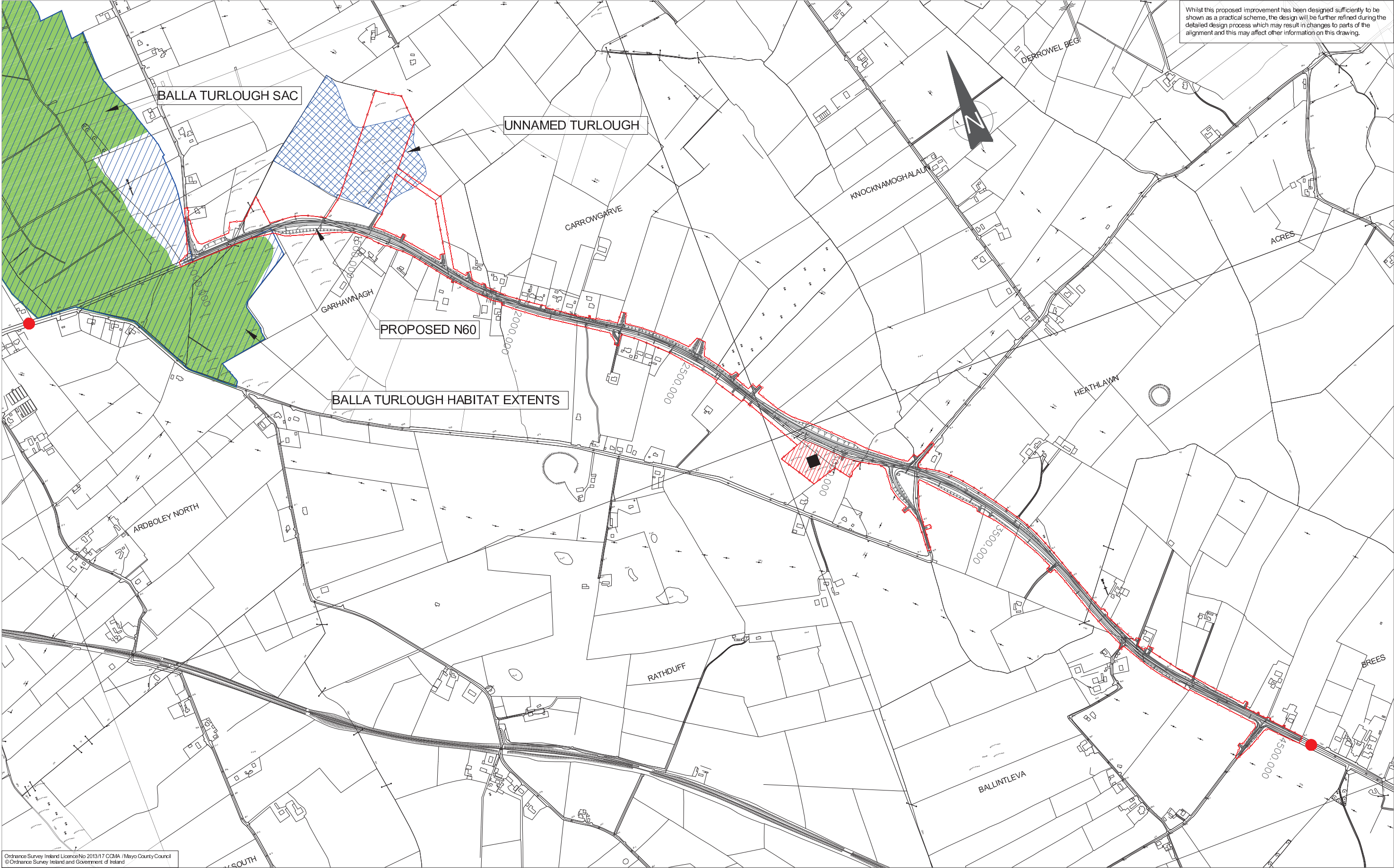
In the event of the need for a deviation from the Method Statement, no further work will be done until agreement has been reached and recorded in writing between the client & the contractor on the method of work to be followed in the new circumstances.



<b>N60 Balla to Claremorris Road Realignment at Heathlawn Scheme</b>	<b>Method Statement: Installation of Fencing</b>	<i>Issue</i> <b>0</b>	<i>Date</i> <b>12/5/14</b>
		<i>Ident No.</i> <b>MS-N60-02</b>	

## **Appendix A**

SAMPLE



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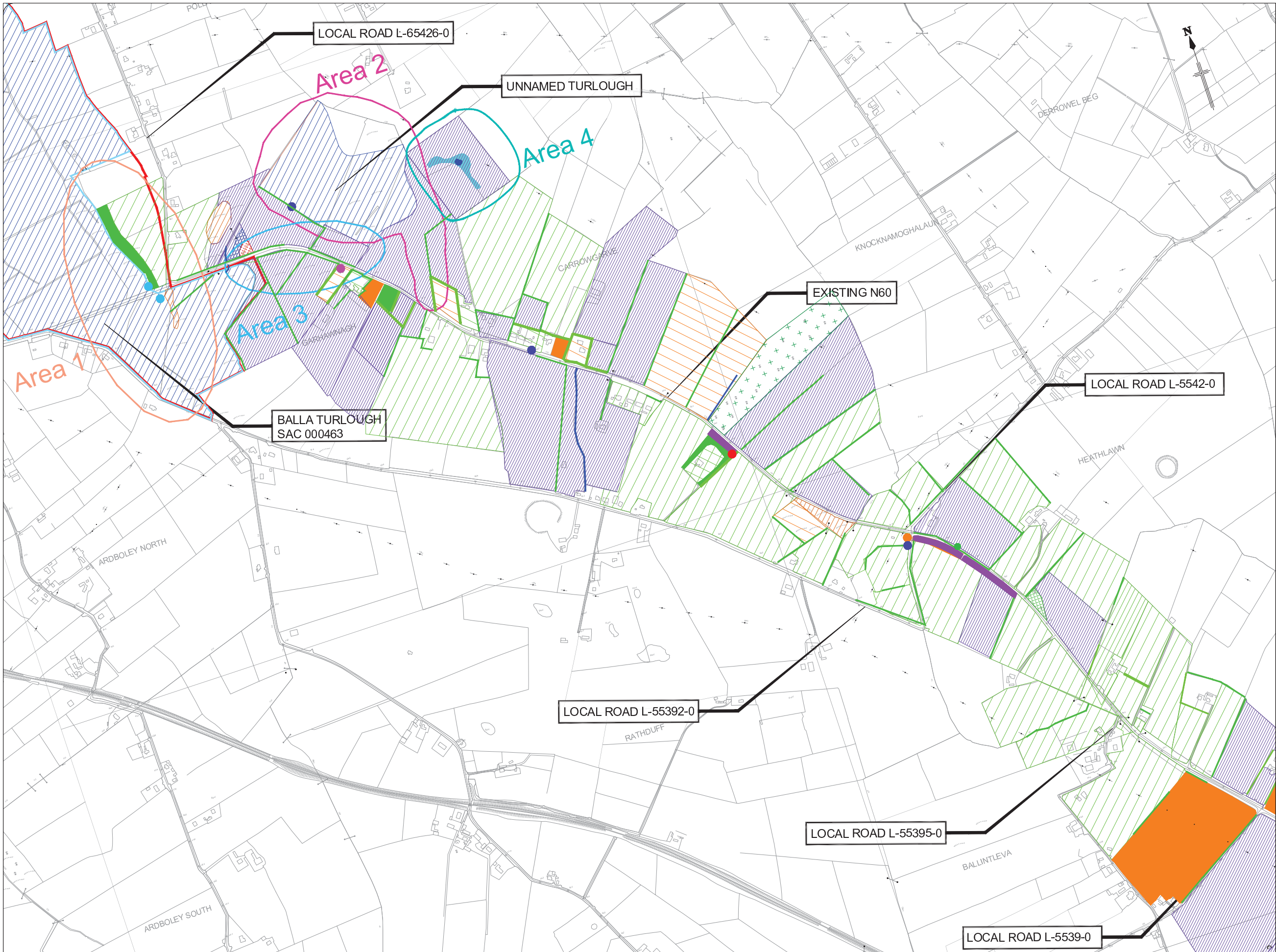
Key:  
 Balla Turlough SAC  
 Balla Turlough Habitat Extents  
 Permanent Fence Line  
 Site Access (along existing N60)

Unnamed Turlough  
 Proposed Site Compound Location  
(Will include Car Parking and Material  
Storage areas) (Access from within  
existing CPO)

Rev	By	Date	Description
0	MMK	MAY 14	ABP Request

Project: N60 BALLA TO CLAREMORRIS ROAD PROJECT AT HEATHLAWN	
Component: Statutory Response: An Bord Pleanála	
Title: Construction Method Statement Compound, Parking and Material Storage Space	
Designed: KC	File Name: Q:\BUILT\Draw\B&T\Infrastructure\Highways\N60\N60 MFC 1 of 2.dwg
Drawn: MMK	Original scale: 1:5000 @ A1
Checked: AMG	Date: Jan 2014
Drawing No: 32103901/Statutory Response/ABP/ Figure 2	





- Key:
- Drainage Ditches (FW4)
  - Hedgerows (WL1)
  - Treelines (WL2)
  - Stone Walls & Other Stonework (BL1)
  - Turlough Vegetation Extents (FL6)
  - Balla Turlough cSAC Boundary
  - Turlough (FL6) [Note - Only the portion of cSAC Turlough within proximity to road has been mapped]
  - Non-Calcareous Springs (FP2)
  - Reed and Large Sedge Swamps (FS1)/ Tall-Herb Swamps (FS2) Mosaic
  - Improved Grassland (GA1)
  - Amenity Grassland (GA2)
  - Dry Calcareous and Neutral Grassland (GS1)
  - Dry Meadows and Grassy Verges (GS2)
  - Not Mapped (Small Patches included in FL6)
  - Dry-Humid Acid Grassland (GS3)
  - Wet Grassland (GS4)
  - Dense Bracken (HD1)
  - (Mixed) Broadleaved Woodland (WD1)
  - Conifer Plantation (WD4)
  - Scattered Trees & Parkland (WD5)
  - Recolonising Bare Ground (ED3)
  - Scrub (WS1)
  - Rare Flora Sweet Briar
  - Rare Flora Marsh Stickswort
  - Uncommon Flora Cowslip
  - Invasive Flora Rhododendron
  - Invasive Flora Three-cornered Garlic
  - Invasive Flora Snowberry
  - Area of Wet Grassland containing Mayo Biodiversity Action Plan Priority Species Black Bog Rush
  - Additional Detailed Botanical Survey (Area Numbers relate to maps included in Botanical Survey of Selected Areas' report appended to EAR Ecology Chapter)

N60 Balla to Claremorris Road Realignment at Heathlawn Scheme	Method Statement: Installation of Fencing	Issue 0	Date 12/5/14
		Ident No. MS-N60-02	

## APPENDIX B

### Risk Assessments

### Hazard/Risk Assessment Proforma

<b>Project:</b>	N60 Balla to Claremorris Road Realignment at Heathlawn Scheme	<b>Risk Assessment No:</b>	N60/RA04 Rev 0	<b>Review</b>	<b>Dates:</b>	May 2014
<b>Operation/Task :</b>	Fencing	<b>Method Statement Title:</b>	Fencing			
<b>Location/Area:</b>	All areas	<b>Method Statement No:</b>	MS-N60 02 Rev 0			

#### CATEGORY OF PERSONS AT RISK AND MEANS OF BRIEFING

CATEGORY OF PERSONS		Means of Briefing		
		RAMS	SCS	Other
<b>Occupations involved in Activity (Specify):</b>	Plant operators, general operatives ,	Y		
<b>Others Persons at Work (Specify):</b>	N/A			
<b>Public or Other Parties (Specify):</b>	NA			
Description of the task/operation				
1. All aspects of excavations . 2. Lifting operations				

<b>N60 Balla to Claremorris</b> <b>Road Realignment at</b> <b>Heathlawn Scheme</b>	<b>Method Statement:</b> <b>Installation of Fencing</b>	<i>Issue</i> <b>0</b>	<i>Date</i> <b>12/5/14</b>
		<i>Ident No.</i> <b>MS-N60-02</b>	

**KEY: S = Severity Rating**

1. Negligible
2. Minor
3. Notifiable/Major/Fatal

**L = Likelihood of Occurrence**

1. Improbable
2. Reasonably likely
3. Certain or near certain

**RR = Risk Rating**

	3	3	6	9
3	3	6	9	
2	1	4	6	
1	1	2	3	
	1	2	3	

**Likelihood**

9	Unacceptable risk, plan out or add further controls
4-6	Acceptable only if no other method viable and with high level controls in place
2-3	Acceptable if suitable controls
1	Acceptable, no further action required

Risk Assessment Prepared by \_\_\_\_\_  
(Name):

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Risk Assessment Reviewed by \_\_\_\_\_  
(Name):

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

N60 Balla to Claremorris Road Realignment at Heathlawn Scheme	Method Statement: Installation of Fencing	Issue 0	Date 12/5/14
		Ident No. MS-N60-02	

Item	Activity	Hazards/Risks Identified	Pre-Control Risk Rating			Control Measures	Residual Risk Rating			Responsibility	Monitoring Responsibility
			S	L	RR		S	L	RR		
01	<b>Existing Services</b>	Work near significant existing services ie - ESB services - Watermains - Telecommunications	2	2	4	Detailed Method Statements and Risk Assessments to be carried out for all activities which have potential to impact on existing services - Request temporary outages on services - Worker Briefings to be carried out - Adhere to Codes of Practice for avoiding dangers from under ground services - Trial holing in advance - Permit to Dig system to be implemented - Use of Catscan equipment - Use of trained plant operators - Use of Banksman - Request temporary outages on affected utilities -	1	2	2	Full site Team	BBI





N60 Balla to Claremorris Road Realignment at Heathlawn Scheme	Method Statement: Installation of Fencing	Issue 0	Date 12/5/14
		Ident No. MS-N60-02	

Item	Activity	Hazards/Risks Identified	Pre-Control Risk Rating			Control Measures	Residual Risk Rating			Responsibility	Monitoring Responsibility
			S	L	RR		S	L	RR		
03	<b>Biological Substances</b>	<b>Works which put person at work at risk from Biological substances</b> - Leptospirosis /Weils Disease - Contact with contaminated ground or objects or materials - Working on existing streams and drains, particularly foul drains.	3	2	4	- Detailed Method Statements and Risk Assessments to be carried out for all activities where biological substances are envisaged including contaminated ground and dealing with asbestos gaskets - Areas of potential contaminated ground to be tested and areas segregated - COSHH Assessments to be carried out and briefed to workers - MSDS Sheets to be available for construction chemicals in use - Ensure adequate assessment of PPE requirements for surfacing operations - All operatives engaged in sewer tie in works to wear appropriate PPE which will include gloves and disposable overalls. - All operatives to be briefed and trained - Adequate washing facilities to provided - Ensure adequate ventilation is provided provide to avoid Asphyxiation - Adequate awareness of and protection against Weils disease	3	1	2	Full site Team	Contr



N60 Balla to Claremorris Road Realignment at Heathlawn Scheme	Method Statement: Installation of Fencing	Issue 0	Date 12/5/14
		Ident No. MS-N60-02	

Item	Activity	Hazards/Risks Identified	Pre-Control Risk Rating			Control Measures	Residual Risk Rating			Responsibility	Monitoring Responsibility
			S	L	RR		S	L	RR		
04	<b>Manual Handling</b>	Fractures, Strains, Sprains  Cuts, Lacerations, Abrasions  Injury through aggravation of previous/existing medical condition	3	2	6	-Use of mechanical assistance wherever possible, e.g. forklift, plant, lifting appliance etc. - Reduce loads by making them smaller or lighter. - Ensure the working environment is suitable i.e. - -- - Access ways are unimpeded and properly lighted. - Working platforms should be non-slip and kept clean Ensure that the individual is lifting correctly, maintains good posture, and lifts with knees bent and back kept straight. All loads should be assessed individually for size and weight, but generally loads greater than 25kg should be handled by more than one person or mechanical means employed. Operatives must wear appropriate gloves and other clothing to reduce the risk of injury. Ensure that all previously experienced back complaints are brought to the attention of management, in order that allowances may be made in ascertaining the safest method of manual handling.	3	1	2	Full Site Team	Contr