



APPENDIX 4-6

**TRAFFIC MANAGEMENT PLAN
(MCE 2019 & 2015)**



Civil Engineering

Traffic Management Plan Meenbog WF – Construction Stage



January 2019

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Lissarda Industrial Estate, Lissarda, Cork, Ireland.

MCE – Meenbog WF's Traffic Management Plan

Contractor: MCE ltd.

Project name: Meenbog Wind Farm

Address: Croaghonagh & Meenbog, Co. Donegal.

Name : Thomas Scanlan – Tel: 021-2066910
Chris Murnane – Tel: 086 -7955083

Email: thomas.scanlan@turnkeydev.com
chris.murnane@gmail.com

Site supervisor: TBC

Safety officer: TBC

Description of task: Traffic Management Plan for Meenbog WF Construction Stage

Key plant: Construction Traffic e.g.
Lorries,
Excavator transport vehicles
Site vehicles
Tractors & trailers

Specific Training: FAS safe pass
CSCS plant ticket
Site induction

MCE – Meenbog WF's Traffic Management Plan

Introduction:

This traffic management plan outlines the traffic calming measures along the N15 and the L-6554 local road around the wind farm entrances for the construction stage process. The entrance (Location 1 on Drg. No. 614) on the N15, is the main entrance in which turbines will be delivered into the site. All traffic management will comply with guidance given in Chapter 8, Traffic Signs Manual, Department of Transport November 2006 and Control and management of Traffic at Road Work October 2007.

Local Access for Residents

As part of the traffic management plan local residents will be alerted to the works through the use of letter drops and prior consultation, if required.

Every effort will be made to limit the effect on local residents and any residents who require special provisions to be made will be accommodated (i.e. Home carer, etc.). Traffic management plans will be reviewed on a daily basis and take into account all local parameter in the area. All required Roadwork Temporary Traffic Management Design Sheets will be completed and kept on site.

Pedestrian & Cyclist Management

Construction traffic & operatives will be made aware to watch out for oncoming pedestrians / cyclists.

MCE – Meenbog WF's Traffic Management Plan

Dealing With Emergency Services

Gardaí will be advised of the intended works prior to commencement on the Gardaí Consultation form. Emergency services using the local roads will be given priority.

Signage Plan

All works will be signed in accordance with the “Guidance for the Control and Management of Traffic at Road Works” (Second Edition 2010). The Routine Works Traffic Management Design, including the layout parameters is illustrated on attachment.

A fully certified and competent ‘Signing Lighting & Guarding’ officer will sign off on the works before commencement and carry out routine monitoring. A qualified supervisor will be on site at all times.

- ✓ See attached traffic management design sheet for signage etc.
- ✓ The entire traffic management system will be set up prior to any works commencing.
- ✓ Only approved signs will be used on approach to the wind farm entrances.
- ✓ All signs will be clean and clearly visible.
- ✓ Once signs are in place the route will be assessed to ensure adequate visibility for drivers and pedestrians.
- ✓ All signs will be secured and weighted down where appropriate.
- ✓ Contractor vehicles will be parked with consideration given to traffic management plan.

MCE – Meenbog WF's Traffic Management Plan

Overview Drawings:

The following drawings are included at the end of this document:

- ✓Drg. No. 614 – Construction Stage Overall Layout View
- ✓Drg. No. 615-1 – Sheet 1 of 2 – Location 1 Layout
- ✓Drg. No. 615-2 – Sheet 2 of 2 – Location 2 Layout

Signage Layout On Approach To The Wind Farm Entrances

The following is the layout for signage that will be in place on the approach to the wind farm entrances. See attached Drg. No. 615-1 showing signage layout entering the wind farm from the N15 and Drg. No. 615-2 showing signage layout entering the wind farm from the L-6554:

- ✓Sign no 1: WK001 / P011D indicates sign 600m before entrance “Man with Shovel”
 - ✓Sign no 2: RUS014 indicates sign 400m before entrance “No Overtaking”.
 - ✓Sign no 6: CON039 indicates sign 200m before entrance “Caution Construction Site Entrance 200m”
 - ✓Signage after road works will indicate 'No Overtaking Ends' and 'End of Road Works'.
- Traffic entering and exiting existing secondary road will continue as normal with construction traffic kept to a minimum.

ROUTINE WORKS TRAFFIC MANAGEMENT DESIGN

SHUTTLE CONTROL SELECTION

Method	Max Speed Limit (km/h)	Length of Works (m)	Max Traffic (veh/hr)	3 Min Count	Notes
All Stop	100	n/a	50	400	15-10 mins max.
Give and Take	100	50	80	42	Clear Visibility required from both directions
Priority	100	100	100	1400	These Distances indicate the clear visibility distance from before an obstruction to a point an equal distance beyond the obstruction. If used at night, will require a warning beacon.
Stop/Go	100	20	500	25	Can be Single Man/Single Sign
	100	100	1400	70	Can be single Man-Auto Sign
	100	200	1250	63	Can be single Man-Auto Sign
	100	300	1050	53	Has to be Two Man-Two Sign
	100	400	950	48	Has to be Two Man-Two Sign
	100	500	850	43	Has to be Two Man-Two Sign
Traffic Lights	100	500/n/a	n/a		Vehicle Actuated

NOTE: WHEN USING SHUTTLE CONTROL, TAPERS ARE AT 45 DEGREES

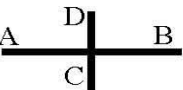
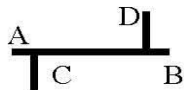
LAYOUT PARAMETER SELECTION SHEET

Type of Road	Advance Sign Distance (D) (m)	Min No. & Type of Advance Signs in Sequence	Min clear visibility of Signs (m)	Min size of signs (mm)	Min height of cones (mm)	Long. Safety Zone (L) (m)	Side. Safety Zone (S) (m)	Long. Cone Space (m)	Long. Lamp Space (m)	Lane Taper Multiply factor	Lead-in cone tapers (See Notes below) Recommended lengths	Width of hazard (including safety zone) NOTE: TAPERS ARE ONLY WHERE TWO WAY TRAFFIC MAINTAINED	Hard Shoulder Taper Multiply factor
Single carriageway road, 30km/h	50	1 (r.w.a.) 1 (t.m.)	50	600	450	5	0.5	6	12	8	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	1m 2m 3m 4m 8 16 24 32 4 7 10 12 2 3 4 5	4
Single carriageway, 60km/h	50	1 (r.w.a.) 1 (t.m.)	50	600	450	5	0.5	6	12	8	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	1m 2m 3m 4m 8 16 24 32 4 7 10 12 2 3 4 5	4
Single Carriageway 80km/h	600	1 (r.w.a.) 1 (n.o.) 1 (t.m.)	90	750* 900*	750	45	1.2	12	24	35	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	1m 2m 3m 4m 35 70 105 140 16 30 44 58 5 9 13 17	20
Single Carriageway 100 km/h	800	1 (r.w.a.) 1 (n.o.) 2 (t.m.)	120	750* 900*	750	60	1.2	12	24	40	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	1m 2m 3m 4m 40 80 120 160 42 82 122 162 6 10 15 19	20
Dual Carriageway 60 km/h	600	1 (r.w.a.) 2 (t.m.) X 2	50	900	450	5	0.5	6	12	8	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	1m 2m 3m 4m 8 16 24 32 4 7 10 12 2 3 4 5	4
Dual Carriageway 80 km/h	600	1 (r.w.a.) 2 (t.m.) X 2	90	900	750	45	0.75	12	24	35	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	1m 2m 3m 4m 35 70 105 140 13 25 37 48 5 9 13 17	10
Dual Carriageway 100 km/h	1000	2 (r.w.a.) 3 (t.m.) X 2	120	1200	750	45	1.2	12	24	40	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	1m 2m 3m 4m 40 80 120 160 42 82 122 162 6 10 15 19	20

* Use 750mm signs where Vehicles Per Day < 5,000. Use 900mm signs where Vehicles Per Day > 5,000

TRAFFIC MANAGEMENT PLAN FOR ROUTINE WORKS

5) Road Schematic

6) Traffic Management Selection

6.1) Classification	Road Type	Road Width	Speed Limit	Urban/Rural	Traffic
					Heavy/ Light
6.2) Selection	All Stop	Give & Take	Priority	Stop/ Go	Lights
6.3) Semi-Static	Will Semi-Static Management be used?				Yes
					No

7) Signage (Warn / Inform / Direct / End)

No	Sign	Dir	No	Sign	Dir	No	Sign	Dir	No	Sign	Dir
1 + 2 ARE SEMI-STATIC		A	6		A	11		A	16		A
		B			B			B			
		C			C			C			
		D			D			D			
		A	7		A	12		A	17		A
		B			B			B			
		C			C			C			
		D			D			D			
		A	8		A	13		A	18		A
		B			B			B			
		C			C			C			
		D			D			D			
	A	9		A	14		A	19		A	
	B			B			B				
	C			C			C				
	D			D			D				
	A	10		A	15		A	20		A	
	B			B			B				
	C			C			C				
	D			D			D				

If Using Traffic Lights/ Stop-Go, Have Gardaí Been Notified?	YES	NO
Are All Required Cones / (Lamps & Beacons) In Place (and operating)?	YES	NO

8) Workforce Induction & Communication

8.1) Has this Plan been Communicated to the workforce and does everyone know their role? Operatives to Sign Below	Yes	No
8.2) Supervisor		

NOTIFICATION OF POSITIVE TRAFFIC CONTROL

Under the following Road Traffic Acts/Regulations

- Section 37 of the Road Traffic Act, 1994
- Road Traffic (Signs) Regulations 2006 (S.I. No. 637 of 2006)
- Road Traffic (Control of Traffic) Regulations 2006 (S.I. No. 638 of 2006)

The Roads Authority of

Hereby notifies

Of the use of

TEMPORARY TRAFFIC LIGHTS

☐

STOP-GO BOARD(s)

☐

at the following location:

Road

From a point

To a point

ON/ BETWEEN (delete as appropriate) the following dates

and

Observations (if any) should be faxed to:

Signed: _____

On behalf of the Roads Authority

PLANNED WORKS TRAFFIC MANAGEMENT SITE INSPECTION SHEET			
PROJECT NAME:		Phase:	
Date:	Time:	1).	2).
1) TRAFFIC MANAGEMENT SET-UP/ MODIFICATION, INSPECTIONS			
1-1) Installation Checks			
Does the Traffic Management conform to the Design Layout and Parameters?			
Have all hazards been addressed in the Traffic Management Plan?			
Has allowance been made for the delivery and removal of materials?			
Have Gardaí been informed of any Traffic Lights/ Stop-Go Boards in use?			
Have Gardaí been informed of Roadworks Speed limits being introduced?			
2) TRAFFIC MANAGEMENT OPERATION INSPECTIONS			
2-1) Operation Checks		1	2
Are Safety Zones being kept clear of operatives, plant and materials?			
Are all the signs in good condition/ are all cones in good condition with sleeves?			
Are sign vision lines free from bends, hills/dips in the road, parked vehicles, hedges etc?			
Will the site be safe at night or in wind, fog, snow or rain? (delete as appropriate)			
Are all misleading permanent signs and road markings covered?			
Is the carriageway/footway being kept clear of mud and surplus equipment?			
Are materials/ plant that are left on verges or lay-bys being properly guarded and lit?			
2-2) Traffic Checks			
Is there safe access to adjacent premises?			
Does Signing and Guarding meet the (changing) conditions?			
Are traffic control arrangements working at the optimum level to reduce traffic delays?			
If present, are the needs of cyclists or horse riders incorporated into the layout?			
2-3) Pedestrian & Vulnerable Road User Checks			
Have the needs of pedestrians & vulnerable road users been addressed in the layout?			
If pedestrian route blocked, has a suitable alternative route been provided?			
Are pedestrian routes clearly evident/ indicated?			
If a footway in the road is to be used, are ramps to the kerb provided?			
Are pedestrian hazards sufficiently GUARDED at night?			
3) TRAFFIC MANAGEMENT CESSATION INSPECTIONS			
3-1) Works Complete Checks			
Have all signs, cones, barriers, and lamps been removed?			
Have any covered permanent signs been restored?			
Have Gardaí been informed that Speedlimits/ Traffic Signals/ Stop-Go removed?			
4) EXCEPTIONS REPORT			
(Append attachments as necessary)			
Check Completed By:			

PROJECT CLOSEOUT SHEET	
PROJECT NAME:	

1) Procedures	
The extents of construction have been completed per the plans	
Pavement Surface has been visually inspected and deemed satisfactory (incl. sweeping of surfaces that have been surface dressed)	
Temporary Traffic Management arrangements (incl. Orders) have been removed	
Any Permanent Road Markings, Road Studs, and Signs have been installed	
2) Works Extents	
The length of work completed was (m)	
The average width of work completed was (m)	
3) Appointments	
PSDP appointment terminated	
Designer appointment terminated	
PSCS appointment terminated	
Contractor given completion certificate	
4) Records	
The safety file is complete and will be stored	
5) Site Inspection	
The site has been inspected by (print name) and deemed to be satisfactory:	
Signature:	
Date of inspection:	
6) Procedure Monitoring (to be completed by supervisor of person listed in 5 above)	
I recommend that the Project be deemed complete (print name)	
Signature:	
Date:	

INCIDENT/ ACCIDENT REPORT FORM

1) Job Details

1.1) Job Name	
1.2) Job Location	

2) Incident

2.1) Date of Incident	2.2) Time of Incident								
2.3) Incident Involves	Public	Layout	Operatives	Plant	Materials	Hired	Contractor	Environment	
2.4) Incident Classification	Class 1		Class 2		Class 3	Class 4			
	Long Traffic Delays	Pedestrian Danger	Near Miss	Minor Injury	3 Day Injury	Road Traffic Accident	Serious Injury or Death		
2.5) Weather Conditions	Light:	Sunny	Cloudy	Fog	Dawn/Dusk	Night	Floodlit		
	Rain:	Dry	Light Rain	Heavy Rain	Hailstones	Snow			
	Wind:	No Wind	Breeze	Windy	Gale				
	Temperature:	Warm		Cold	Freezing				
2.6) Locus	Carriageway	Footpath	Safety Zone	Working Space					
2.7) Pavement Condition	Clean	Dirty	Dry	Wet	Granular	Wearing	Base	Chips	Markings
2.8) Number involved (Class 2 or greater)									

3) Traffic Management

	N/A	Yes	No
3.1) Were the appropriate signs in their correct place?			
3.2) Were the signs in a good condition?			
3.3) Were all cones in place and in good condition?			
3.4) Were all TM Lamps in place and operating?			
3.5) Were all TM Beacons in place and operating?			
3.6) Were Plant Hazard Beacons operating?			

4) Site Health and Safety

	N/A	Yes	No
4.1) Had operative appropriate CSCS card?			
4.2) Had plant/ equipment been checked for suitability?			
4.3) Were Safety Guards in place and in good condition?			
4.4) Were correct operating procedures/ guidelines used?			
4.5) Were operatives wearing appropriate PPE?			
4.6) Was there good housekeeping on site?			

5) Emergency Procedure

5.1) Services	None	First Aid	Driven to Aid	Ambulance	Fire Brigade	Gardaí
5.2) Procedure		Good	Bad	None		
Training						
Equipment						

6) Operatives (List operatives on site at time of incident)

7) Incident Description

8) Suggested Control Measures to Prevent Re-Occurance

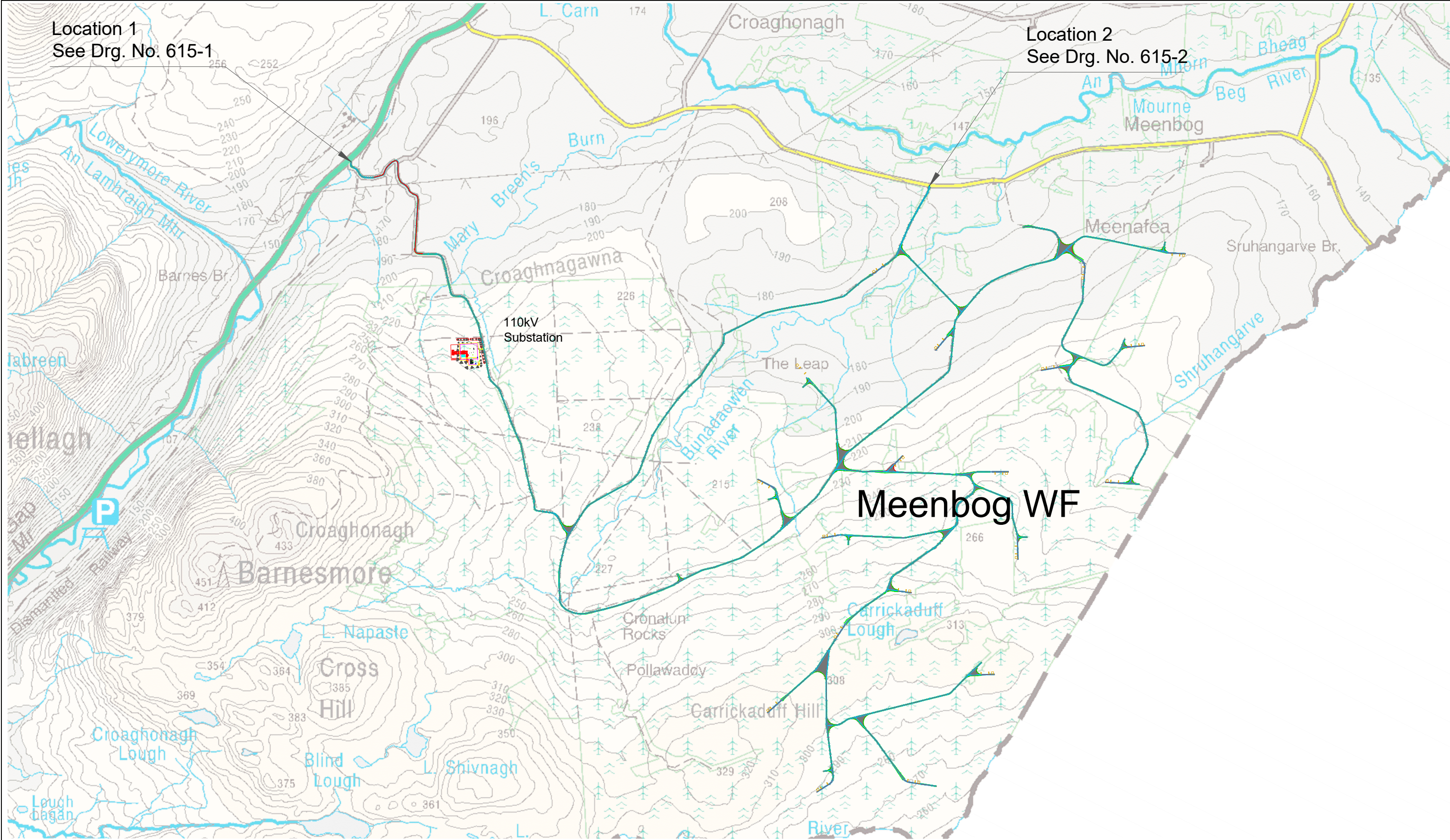
9) Incident Sketch

10) Report
Completed By:

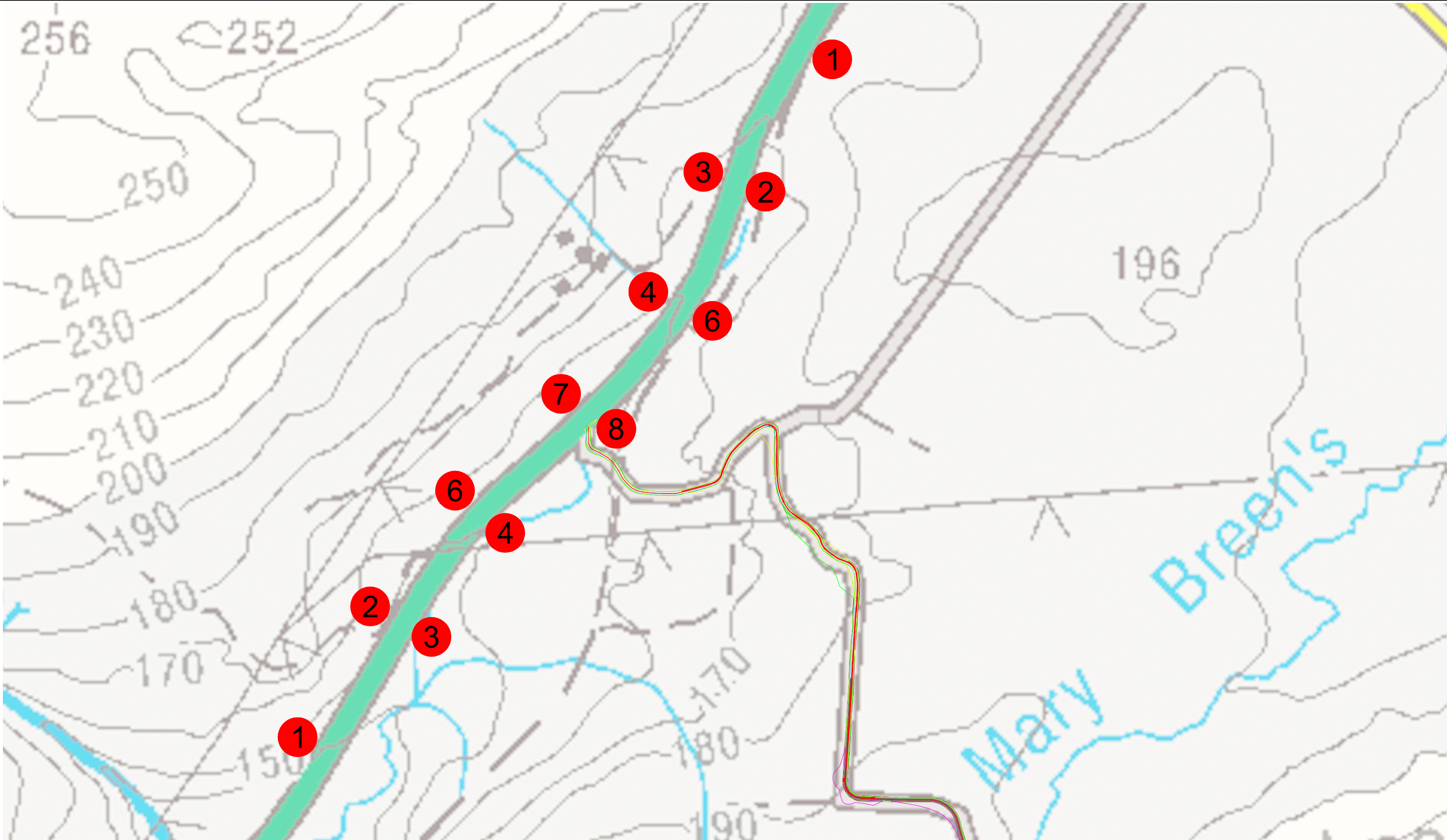
11) Report
Noted By:

MCE – Meenbog WF's Traffic Management Plan

	Name (Print)	Signature	I understand the details in the traffic management plan and agree to sign off (tick)	Date
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				



Project Title: Meenbog WF Construction Stage TMP		
Drawing Title: Overview Sheet		
Date: 15.01.19	Prepared by: T.Scanlan	DRG No. 614
Scale: 1:20000@A3	Rev: 000	Job Ref: 0059



1



3




5



7



2



4



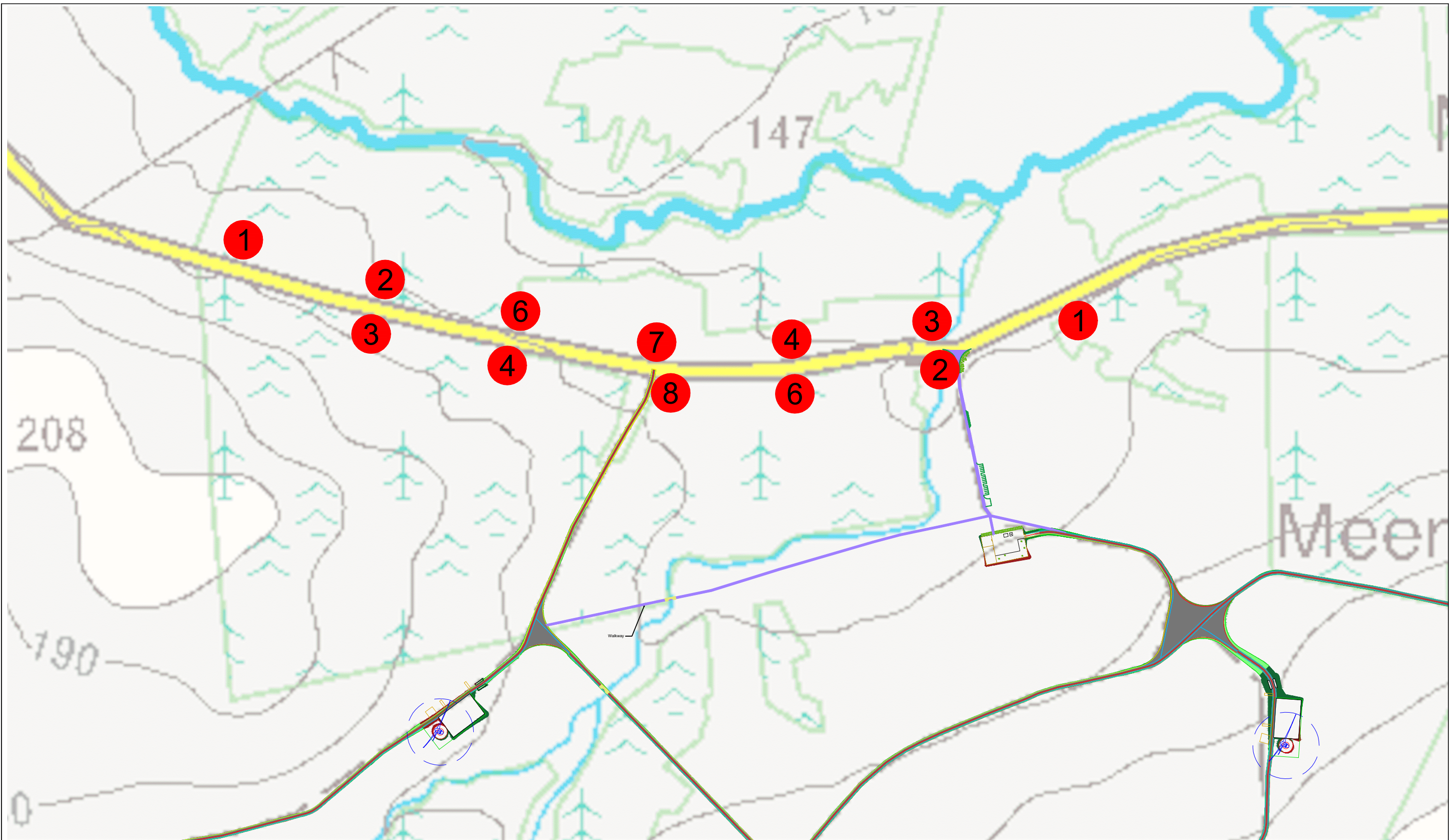

6



8



Project Title: Meenbog WF Construction Stage TMP		
Drawing Title: Location 1 - Sheet 1 of 2		
Date: 15.01.19	Prepared by: T.Scanlan	DRG No. 615-1
Scale: 1:5000@A3	Rev: 000	Job Ref: 0059



1		3		5		7	
2		4		6		8	

Crioch
END

Project Title: Meenbog WF Construction Stage TMP		
Drawing Title: Location 2 - Sheet 2 of 2		
Date: 15.01.19	Prepared by: T.Scanlan	DRG No. 615-2
Scale: 1:5000@A3	Rev: 000	Job Ref: 0059



Civil Engineering

Traffic Management Plan: MCE – N-15 Duct Installation along National Primary Roads N-15-25, N-15-24, N-15-23, N-15-22 & N-15-21.



January 2019

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Lissarda Industrial Estate, Lissarda, Cork, Ireland.

MCE – N-15 Duct Installation Traffic Management Plan

Contractor: MCE ltd.

Project name: Meenbog Wind Farm

Address: Carrickalangan, Meenbog & Cullionboy, Co. Donegal.

Name : Sean Driscoll - Tel: 086-8528329
Chris Murnane – Tel: 086-7955083

Email: sean.odriscoll@turnkeydev.com
chris.murnane@gmail.com

Site supervisor: Sean Driscoll / Chris Murnane

Safety officer: Chris Murnane

Description of task: Traffic Management Plan for Meenbog Wind Farm for the grid connection cable on road numbers N-15-25, N-15-24, N-15-23, N-15-22 & N-15-21.

Key plant: 360 excavators
8 tonne dumper
Lorries
Roller
Submersible Pumps
Plate compactor
Generator
Spill Kit
Diesel Bouser
Drip Trays
Directional Drilling Rig
Auger Boring Machine

Specific Training: FAS safe pass
CSCS plant ticket
Site induction

MCE – N-15 Duct Installation Traffic Management Plan

Method of Access and Egress to the work Area	All operatives must complete pre works MCE Ltd. site induction before commencing work on the ducting route.
Fall Protection Measures: (Where work at height cannot be eliminated)	No persons are permitted within 2 meters of excavation. Trench support will be utilized if required. Open trenches will be fenced off or backfilled every evening to ensure the areas are safe for workers and local traffic.
Hazardous Substances: Applicable:	       No No No No No Yes No
Storage Arrangements:	No material will be used or generated during the course of this task
Mandatory and Additional PPE as Required:	      Other: 1. Hi-Vis Safety Boots Yes Hard Hats Yes Gloves Yes Hearing Protection When required Eye Protection Yes Respiratory Protection N/A
Emergency Procedures:	MCE Emergency Procedures (All employees informed at site inductions) All employees to be made aware of the nearest exit routes from site.. All personnel to be in possession of the site coordinates at all times in case of need to contact emergency services for any reasons.
First Aid Facilities:	On-Site First Aider: Sean O'Driscoll / Chris Murnane First Aid Box Location: MCE Site Vehicle & Site Office Nearest Hospital: Letterkenny General Hospital – (074) 9125888 HSE Community Care Centre, Ballybofey (074 9131391)
Welfare Facilities:	Site office, canteen and toilet supplied by Mid Cork Electrical at site compound across from substation and assembly point.

MCE – N-15 Duct Installation Traffic Management Plan

Introduction:

This traffic management plan outlines the affected roadways for the 110 kV ducting installation for the underground cable grid connection between Meenbog WF 110kV Substation (Croaghonagh) and Clogher 110kV substation (Cullionboy). This is to be read in conjunction with the works method statement in order to provide a safe system of work.

The length of roadway affected is 5,748 metres along the N-15-25, N-15-24, N-15-23, N-15-22 & N-15-21. There will not be a requirement to close the road at any time during the works and access will be granted at all times to all vehicles. Traffic calming measures will be utilized to slow down vehicles and ensure ducting can be carried out safely.

Prior to any works commencing a dilapidation survey will be completed of the entire route, photographing and noting any existing damage or defects to property or road surfaces. A copy of this will be submitted to the Donegal County Council prior to work commencing.

Local Access for Residents

As part of the management plan local residents affected by the road closure will be alerted to the works through the use of letter drops and prior consultation.

Every effort will be made to limit the effect on local residents and any residents who require special provisions to be made will be accommodated (i.e. Home carer, etc.). Traffic manage plans will be reviewed on a daily basis and take into account all local parameter in the area where work is being carried out. All required traffic management calculation forms will be completed and kept on site.

MCE – N-15 Duct Installation Traffic Management Plan

Pedestrian & Cyclist Management

Pedestrians and cyclist will be accommodated along the primary and secondary diversion routes. Operatives will be made aware to watch out for oncoming pedestrians / cyclists and to advise them accordingly.

Dealing With Emergency Services

Gardai will be advised of the intended works to be carried out prior to commencement on the Gardai Consultation form. Emergency services using the local roads will be made priority and areas where the works are being carried out will be covered immediately with road plates so as to allow access.

Signage Plan

All works will be signed in accordance with the “Guidance for the Control and Management of Traffic at Road Works” (Second Edition 2010). The Routine Works Traffic Management Design, including the layout parameters is illustrated on attachment.

MCE – N-15 Duct Installation Traffic Management Plan

All traffic management will comply with guidance given in Chapter 8, Traffic Signs Manual, Department of Transport November 2006 and Control and management of Traffic at Road Work October 2007.

A fully certified and competent 'Signing Lighting & Guarding' officer will sign off on the works before commencement and carry out routine monitoring. A qualified supervisor will be onsite at all times.

- ✓ See attached traffic management design sheet for signage etc.
- ✓ The entire traffic management system will be set up prior to any works commencing.
- ✓ Only approved signs will be used along the works area.
- ✓ All signs will be clean and clearly visible.
- ✓ Once signs are in place the route will be assessed to ensure adequate visibility for drivers and pedestrians.
- ✓ All signs will be secured and weighted down where appropriate.
- ✓ Lane width will be reduced and a two-way layout flow during all ducting installation with the north bound hard shoulder closed.
- ✓ At the end of each day the excavation is back filled and all materials will be remove from the roadside.
- ✓ Contractor vehicles will be parked with consideration given to traffic management plan.
- ✓ Where flag men are required, both flag men, the foreman and guarding officer will all communicate via two-way radios.

MCE – N-15 Duct Installation Traffic Management Plan

Road Closure / Road Opening Licence Drawings:

The following drawings are included at the end of this document:

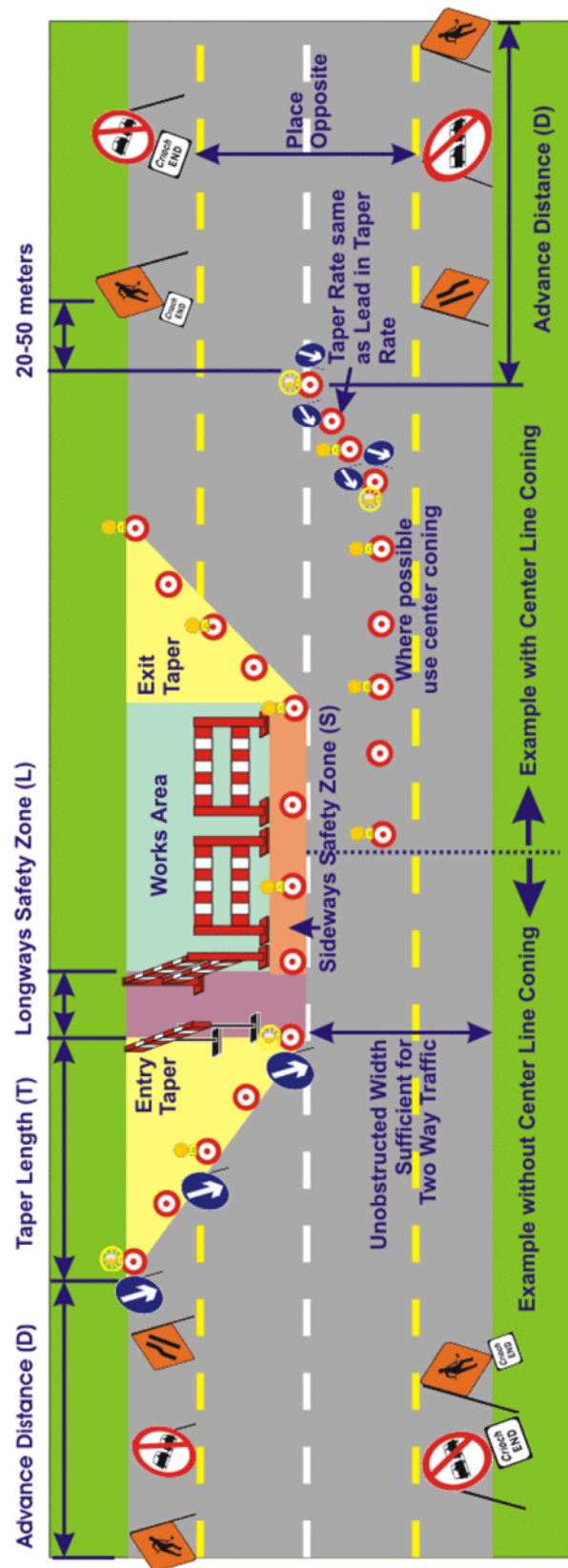
- ✓0059 – 610 – Traffic Calming Measures– Overall Layout View
- ✓0059 – 611-1 – Sheet 1 of 4 – Location 1 Layout
- ✓0059 – 611-2 – Sheet 2 of 4 – Location 2 Layout
- ✓0059 – 611-3 – Sheet 3 of 4 – Location 3 & 4 Layout
- ✓0059 – 611-4 – Sheet 4 of 4 – Location 5 Works Area Layout

MCE – N-15 Duct Installation Traffic Management Plan

Signage Layout

The following is the layout for signage that will be in place on the approach to the road works which will be occurring on the N-15-25, N-15-24, N-15-23 N-15-22 & N-15-21. See attached drawings showing signage layout for the alterations to the road layout which will be occurring .

- ✓ Sign no.1: WK 001 (man with shovel) 1000m before road works
- ✓ Sign no.2: (do not pass) 800m before road works
- ✓ Sign no.3: P 011 (Cautionary Speed limit 60 km/h) 600m before road works
- ✓ Sign no.4: WK 032 (road narrows ahead) 400m before road works
- ✓ Sign no.5: P 083 (end of hard shoulder) & WK 013 (divert to right) 200m before road works
- ✓ Cones with reflectors start to taper 200m before works location begin.
- ✓ Sign no.6: WK 052 (site entrance on left) 100m before entrance to works
- ✓ Sign no.7: WK 052 (site entrance on left) at entrance to works
- ✓ Statutory sign no 6 : (blue arrow) at start of cones.
- ✓ Signage after road works will indicate 'No Overtaking Ends' and 'End of Road Works'.
- ✓ Traffic entering and exiting existing secondary road will continue as normal with construction traffic kept to a minimum.
- ✓ See attached generic shuttle layout system for one-way stop and go. This shuttle layout will be set up onsite by the qualified signing lighting and guarding officer.



Generic 2-Way Layout

Method	Max Speed Limit (km/h)	Length of Works (m)	Max Traffic (veh/h)	3 Min Count	Notes
All Stop	100 m/a		300		15-10 mins max.
Give and Take	50	50	400	20	Clear Visibility required from both directions
Priority	100	80	840	42	Speed Limit
	These Distances indicate the clear visibility distance from before an obstruction to a point an equal distance beyond the obstruction.				50 km/h 60 km/h 80 km/h 100 km/h
Stop/Go	100	20	500	25	Can be Single Man/Single Sign 70 Can be single Man-Auto Sign 63 Can be single Man-Auto Sign 53 Has to be Two Man-Two Sign 48 Has to be Two Man-Two Sign 43 Has to be Two Man-Two Sign
Traffic Lights	100	500 m/a	m/a		Vehicle Actuated

LAYOUT PARAMETER SELECTION SHEET

En	
Sig	

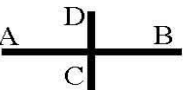
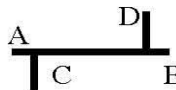
Advance Signs		Main	
End Signs	Works Signs	End Signs	Works Signs
<u>End</u> 	<u>Direct</u> select appropriate        	<u>Warn</u> r.w.a. 	road works ahead traffic management
<u>Inform</u> 1  2  3  4 	<u>Direct</u> n.o.  no overtaking	Priority	1  2  3  4 

Type of Road	Advance Sign Distance (D) (m)	Min clear visibility of Signs (m)	Min size of signs (mm)	Min height of cones (mm)	Long. Safety Zone (L) (m)	Side. Safety Zone (S) (m)	Long. Cone Space	Long. Lamp Space	Lane Taper Multiply factor	Taper Cone Spacing	Taper Lamp Spacing	Lead-in cone tapers (See Notes below) Recommended lengths	Width of hazard (Including safety zone) NOTE: TAPERS ARE ONLY WHERE TWO WAY TRAFFIC MAINTAINED				Hard Shoulder Taper Multiply factor
													1 m	2 m	3 m	4 m	
Single carriageway/ road, 30km/h	50	50	600	450	5	0.5	6	12	8	3	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	8 4 2	16 7 3	24 10 4	32 12 5	4
Single carriageway, 60km/h	50	50	600	450	5	0.5	6	12	8	3	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	8 4 2	16 7 3	24 10 4	32 12 5	4
Single Carriageway/ 80km/h	600	90	750*	750	45	1.2	12	24	35	2.5	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	35 16 5	70 30 9	105 44 13	140 58 17	20
Single Carriageway/ 100 km/h	800	120	750*	750	60	1.2	12	24	40	1	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	40 42 6	80 82 10	120 122 15	160 162 19	20
Dual Carriageway/ 60 km/h	600	50	900	450	5	0.5	6	12	8	3	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	8 4 2	16 7 3	24 10 4	32 12 5	4
Dual Carriageway/ 80 km/h	600	90	900	750	45	0.75	12	24	35	3	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	35 13 5	70 25 9	105 37 13	140 48 17	10
Dual Carriageway/ 100 km/h	1000	120	1200	750	45	1.2	12	24	40	1	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	40 42 6	80 82 10	120 122 15	160 162 19	20

9

TRAFFIC MANAGEMENT PLAN FOR ROUTINE WORKS

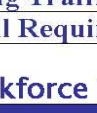
5) Road Schematic

6) Traffic Management Selection

6.1) Classification	Road Type	Road Width	Speed Limit	Urban/Rural	Traffic
					Heavy/ Light
6.2) Selection	All Stop	Give & Take	Priority	Stop/ Go	Lights
6.3) Semi-Static	Will Semi-Static Management be used?				Yes
					No

7) Signage (Warn / Inform / Direct / End)

No	Sign	Dir	No	Sign	Dir	No	Sign	Dir	No	Sign	Dir
1 + 2 ARE SEMI-STATIC		A	6		A	11		A	16		A
		B			B			B			
		C			C			C			
		D			D			D			
		A	7		A	12		A	17		A
		B			B			B			
		C			C			C			
		D			D			D			
		A	8		A	13		A	18		A
		B			B			B			
		C			C			C			
		D			D			D			
	A	9		A	14		A	19		A	
	B			B			B				
	C			C			C				
	D			D			D				
	A	10		A	15		A	20		A	
	B			B			B				
	C			C			C				
	D			D			D				

If Using Traffic Lights/ Stop-Go, Have Gardai Been Notified?	YES	NO
Are All Required Cones /(Lamps & Beacons) In Place (and operating)?	YES	NO

8) Workforce Induction & Communication

8.1) Has this Plan been Communicated to the workforce and does everyone know their role? Operatives to Sign Below	Yes	No
8.2) Supervisor		

NOTIFICATION OF POSITIVE TRAFFIC CONTROL

Under the following Road Traffic Acts/Regulations

- Section 37 of the Road Traffic Act, 1994
- Road Traffic (Signs) Regulations 2006 (S.I. No. 637 of 2006)
- Road Traffic (Control of Traffic) Regulations 2006 (S.I. No. 638 of 2006)

The Roads Authority of

Hereby notifies

Of the use of

TEMPORARY TRAFFIC LIGHTS

☐

STOP-GO BOARD(s)

☐

at the following location:

Road

From a point

To a point

ON/ BETWEEN (delete as appropriate) the following dates

and

Observations (if any) should be faxed to:

Signed: _____

On behalf of the Roads Authority

PLANNED WORKS TRAFFIC MANAGEMENT SITE INSPECTION SHEET			
PROJECT NAME:		Phase:	
Date:	Time:	1).	2).
1) TRAFFIC MANAGEMENT SET-UP/ MODIFICATION, INSPECTIONS			
1-1) Installation Checks			
Does the Traffic Management conform to the Design Layout and Parameters?			
Have all hazards been addressed in the Traffic Management Plan?			
Has allowance been made for the delivery and removal of materials?			
Have Gardaí been informed of any Traffic Lights/ Stop-Go Boards in use?			
Have Gardaí been informed of Roadworks Speed limits being introduced?			
2) TRAFFIC MANAGEMENT OPERATION INSPECTIONS			
2-1) Operation Checks		1	2
Are Safety Zones being kept clear of operatives, plant and materials?			
Are all the signs in good condition/ are all cones in good condition with sleeves?			
Are sign vision lines free from bends, hills/dips in the road, parked vehicles, hedges etc?			
Will the site be safe at night or in wind, fog, snow or rain? (delete as appropriate)			
Are all misleading permanent signs and road markings covered?			
Is the carriageway/footway being kept clear of mud and surplus equipment?			
Are materials/ plant that are left on verges or lay-bys being properly guarded and lit?			
2-2) Traffic Checks			
Is there safe access to adjacent premises?			
Does Signing and Guarding meet the (changing) conditions?			
Are traffic control arrangements working at the optimum level to reduce traffic delays?			
If present, are the needs of cyclists or horse riders incorporated into the layout?			
2-3) Pedestrian & Vulnerable Road User Checks			
Have the needs of pedestrians & vulnerable road users been addressed in the layout?			
If pedestrian route blocked, has a suitable alternative route been provided?			
Are pedestrian routes clearly evident/ indicated?			
If a footway in the road is to be used, are ramps to the kerb provided?			
Are pedestrian hazards sufficiently GUARDED at night?			
3) TRAFFIC MANAGEMENT CESSATION INSPECTIONS			
3-1) Works Complete Checks			
Have all signs, cones, barriers, and lamps been removed?			
Have any covered permanent signs been restored?			
Have Gardaí been informed that Speedlimits/ Traffic Signals/ Stop-Go removed?			
4) EXCEPTIONS REPORT			
(Append attachments as necessary)			
Check Completed By:			

PROJECT CLOSEOUT SHEET	
PROJECT NAME:	

1) Procedures	
The extents of construction have been completed per the plans	
Pavement Surface has been visually inspected and deemed satisfactory (incl. sweeping of surfaces that have been surface dressed)	
Temporary Traffic Management arrangements (incl. Orders) have been removed	
Any Permanent Road Markings, Road Studs, and Signs have been installed	
2) Works Extents	
The length of work completed was (m)	
The average width of work completed was (m)	
3) Appointments	
PSDP appointment terminated	
Designer appointment terminated	
PSCS appointment terminated	
Contractor given completion certificate	
4) Records	
The safety file is complete and will be stored	
5) Site Inspection	
The site has been inspected by (print name) and deemed to be satisfactory:	
Signature:	
Date of inspection:	
6) Procedure Monitoring (to be completed by supervisor of person listed in 5 above)	
I recommend that the Project be deemed complete (print name)	
Signature:	
Date:	

INCIDENT/ ACCIDENT REPORT FORM

1) Job Details

1.1) Job Name	
1.2) Job Location	

2) Incident

2.1) Date of Incident	2.2) Time of Incident								
2.3) Incident Involves	Public	Layout	Operatives	Plant	Materials	Hired	Contractor	Environment	
2.4) Incident Classification	Class 1		Class 2		Class 3	Class 4			
	Long Traffic Delays	Pedestrian Danger	Near Miss	Minor Injury	3 Day Injury	Road Traffic Accident	Serious Injury or Death		
2.5) Weather Conditions	Light:	Sunny	Cloudy	Fog	Dawn/Dusk	Night	Floodlit		
	Rain:	Dry	Light Rain	Heavy Rain	Hailstones	Snow			
	Wind:	No Wind	Breeze	Windy	Gale				
	Temperature:	Warm		Cold		Freezing			
2.6) Locus	Carriageway	Footpath	Safety Zone	Working Space					
2.7) Pavement Condition	Clean	Dirty	Dry	Wet	Granular	Wearing	Base	Chips	Markings
2.8) Number involved (Class 2 or greater)									

3) Traffic Management

	N/A	Yes	No
3.1) Were the appropriate signs in their correct place?			
3.2) Were the signs in a good condition?			
3.3) Were all cones in place and in good condition?			
3.4) Were all TM Lamps in place and operating?			
3.5) Were all TM Beacons in place and operating?			
3.6) Were Plant Hazard Beacons operating?			

4) Site Health and Safety

	N/A	Yes	No
4.1) Had operative appropriate CSCS card?			
4.2) Had plant/ equipment been checked for suitability?			
4.3) Were Safety Guards in place and in good condition?			
4.4) Were correct operating procedures/ guidelines used?			
4.5) Were operatives wearing appropriate PPE?			
4.6) Was there good housekeeping on site?			

5) Emergency Procedure

5.1) Services	None	First Aid	Driven to Aid	Ambulance	Fire Brigade	Gardaí
5.2) Procedure		Good	Bad	None		
Training						
Equipment						

6) Operatives (List operatives on site at time of incident)

7) Incident Description

8) Suggested Control Measures to Prevent Re-Occurance

9) Incident Sketch

10) Report
Completed By:

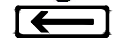
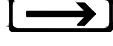
11) Report
Noted By:

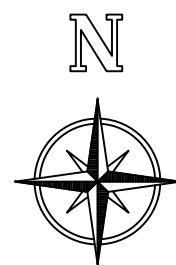
MCE – N-15 Duct Installation Traffic Management Plan

	Name (Print)	Signature	I understand the details in the traffic management plan and agree to sign off (tick)	Date
1				
2				
3				
4				
5				
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11				
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13				
14				
15				
16				
17				
18				
19				
20				

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1		3		5		7		9	
									
2		4		6		8			
									



LEGEND:

5748m EXTENT OF WORKS 

Project Title: Meenbog WF Underground Cable		
Drawing Title: Traffic Calming Measures - N15 Sheet 1 of 4 Location 1 - Layout		
Date: 11.01.19	Prepared by: T.Scanlan	DRG No. 611-1
Scale: 1:5000@A3	Rev: 000	Job Ref: 0059

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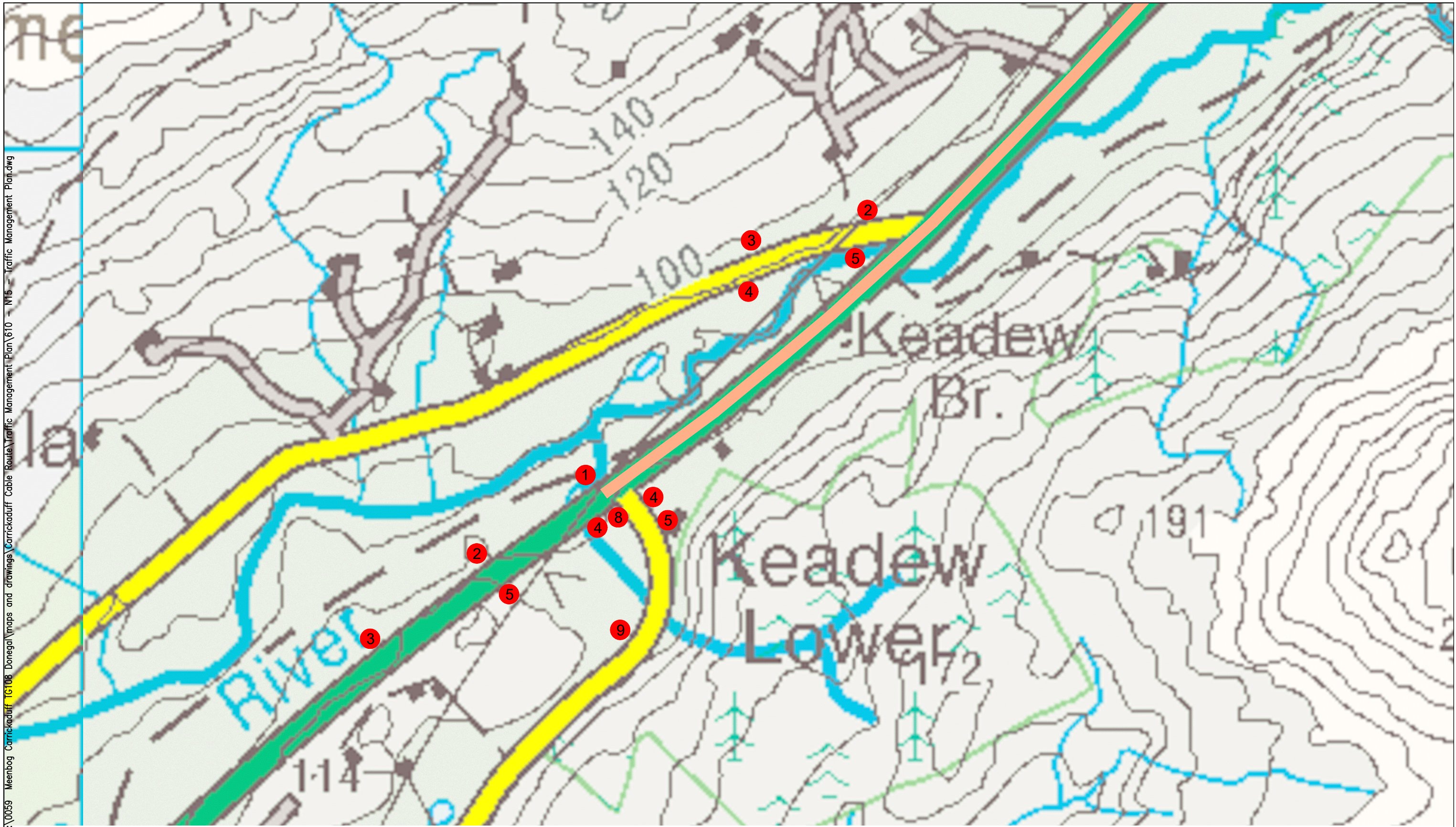
- | | | | | | | | | | |
|---|--|---|--|---|--|---|--|---|--|
| 1 | | 3 | | 5 | | 7 | | 9 | |
| 2 | | 4 | | 6 | | 8 | | | |



LEGEND:

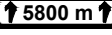
5748m EXTENT OF WORKS

Project Title: Meenbog WF Underground Cable		
Drawing Title: Traffic Calming Measures - N15 Sheet 2 of 4 Location 2 - Layout		
Date: 11.01.19	Prepared by: T.Scanlan	DRG No. 611-2
Scale: 1:5000@A3	Rev: 000	Job Ref: 0059



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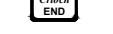
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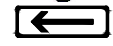
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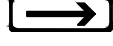
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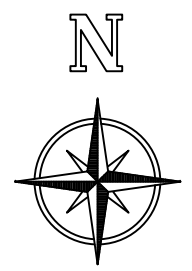



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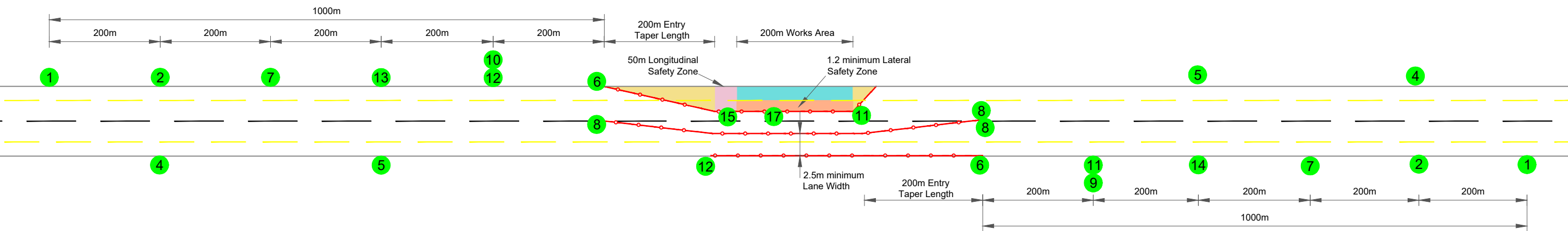
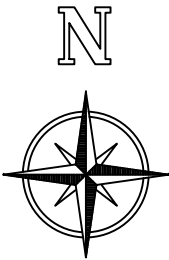


LEGEND:
5748m EXTENT OF WORKS 

Project Title: Meenbog WF Underground Cable		
Drawing Title: Traffic Calming Measures - N15 Sheet 3 of 4 Locations 3 & 4 - Layout		
Date: 11.01.19	Prepared by: T.Scanlan	DRG No. 611-3
Scale: 1:5000@A3	Rev: 000	Job Ref: 0059

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LEGEND:

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CONING AT 12M MAXIMUM SPACING

Project Title: Meenbog WF Underground Cable		
Drawing Title: Section 4 - N15 Sheet 4 of 4 Location 5 - Works Area Layout		
Date: 11.01.19	Prepared by: T.Scanlan	DRG No. 611-4
Scale: 1:5000@A3	Rev: 000	Job Ref: 0059



Civil Engineering

Traffic Management Plan: MCE – Duct Installation along Local Road L-2595-1.



November 2015

Telephone: +353 (0) 21 733 6034, Fax: +353 (0) 21 733 6145
Web: www.mceengineering.ie, Email: office@mceengineering.ie
Lissarda Industrial Estate, Lissarda, Cork, Ireland.

MCE – Grid Connection Duct Installation Traffic Management Plan

Contractor: MCE ltd.

Project name: Meenbog Windfarm

Address: Carrickalangan, Meenbog & Cullionboy, Co. Donegal.

Name : Sean Driscoll - Tel: 086-8528329
Chris Murnane – Tel: 086-7955083

Email: sean.odriscoll@turnkeydev.com
chris.murnane@gmail.com

Site supervisor: Sean Driscoll / Chris Murnane

Safety officer: Chris Murnane

Description of task: Traffic Management Plan for Meenbog Wind Farm along local road L2595-1.

Key plant: 360 excavators
8 tonne dumper
Lorries
Roller
Submersible Pumps
Plate compactor
Generator
Spill Kit
Diesel Bouser
Drip Trays
Directional Drilling Rig
Auger Boring Machine

Specific Training: FAS safe pass
CSCS plant ticket
Site induction

MCE – Grid Connection Duct Installation Traffic Management Plan

Method of Access and Egress to the work Area	All operatives must complete pre works MCE Ltd. site induction before commencing work on the ducting route.
Fall Protection Measures: (Where work at height cannot be eliminated)	No persons are permitted within 2 meters of excavation. Trench support will be utilized if required. Open trenches will be fenced off or backfilled every evening to ensure the areas are safe for workers and local traffic.
Hazardous Substances: Applicable:	       No No No No No Yes No
Storage Arrangements:	No material will be used or generated during the course of this task
Mandatory and Additional PPE as Required:	      Other: 1. Hi-Vis Safety Boots Yes Hard Hats Yes Kevlar Yes Yes Hearing Protection When required Eye Protection Yes Respiratory Protection N/A
Emergency Procedures:	MCE Emergency Procedures (All employees informed at site inductions) All employees to be made aware of the nearest exit routes from site.. All personnel to be in possession of the site coordinates at all times in case of need to contact emergency services for any reasons.
First Aid Facilities:	On-Site First Aider: Sean O'Driscoll / Chris Murnane First Aid Box Location: MCE Site Vehicle & Site Office Nearest Hospital: Letterkenny General Hospital – (074) 9125888 HSE Community Care Centre, Ballybofey (074 9131391)
Welfare Facilities:	Site office, canteen and toilet supplied by Mid Cork Electrical at site compound across from substation and assembly point.

MCE – Grid Connection Duct Installation Traffic Management Plan

Introduction:

This traffic management plan outlines the affected roadways for the 110 kV ducting installation of an underground cable grid connection between Meenbog WF's 110kV Substation (Croaghonagh) and Clogher 110kV substation (Cullionboy). This is to be read in conjunction with the works method statement in order to provide a safe system of work.

The total length of roadway affected is 1,166 metres along the L-2595-1 and it is proposed that the road be closed during the works, (See Drawing No.612). Access will be limited to emergency vehicles and to local householders who are unable otherwise to access their homes. Traffic calming measures will be utilized to slow down vehicles and ensure ducting can be carried out safely.

Prior to any works commencing a dilapidation survey will be completed of the entire route, photographing and noting any existing damage or defects to property or road surfaces. A copy of this will be submitted to the Donegal County Council prior to work commencing.

Local Access for Residents

As part of the management plan local residents affected by the road closure will be alerted to the works through the use of letter drops and prior consultation. Every effort will be made to limit the effect on local residents and any residents who require special provisions to be made will be accommodated (i.e. Home carer, etc.). Traffic management plans will be reviewed on a daily basis and take into account all local parameter in the area where work is being carried out. All required traffic management calculation forms will be completed and kept on site.

MCE – Grid Connection Duct Installation Traffic Management Plan

Pedestrian & Cyclist Management

Pedestrians and cyclist will be accommodated along the primary and secondary diversion routes. Operatives will be made aware to watch out for oncoming pedestrians / cyclists and to advise them accordingly.

Dealing With Emergency Services

Gardai will be advised of the intended works to be carried out prior to commencement on the Gardai Consultation form. Emergency services using the local roads will be made priority and areas where the works are being carried out will be covered immediately with road plates so as to allow access.

Signage Plan

All works will be signed in accordance with the “Guidance for the Control and Management of Traffic at Road Works” (Second Edition 2010). The Routine Works Traffic Management Design, including the layout parameters is illustrated on attachment.

MCE – Grid Connection Duct Installation Traffic Management Plan

All traffic management will comply with guidance given in Chapter 8, Traffic Signs Manual, Department of Transport November 2006 and Control and management of Traffic at Road Work October 2007.

A fully certified and competent ‘Signing Lighting & Guarding’ officer will sign off on the works before commencement and carry out routine monitoring. A qualified supervisor will be onsite at all times.

- ✓ See attached traffic management design sheet for signage etc.
- ✓ The entire traffic management system will be set up prior to any works commencing.
- ✓ Only approved signs will be used along the works area.
- ✓ All signs will be clean and clearly visible.
- ✓ Once signs are in place the route will be assessed to ensure adequate visibility for drivers and pedestrians.
- ✓ All signs will be secured and weighted down where appropriate.
- ✓ Traffic will be reduced to single flow during all excavations on the roadside along sections which do not require a closure.
- ✓ At the end of each day the excavation is back filled and all materials will be removed from the roadside.
- ✓ Contractor vehicles will be parked with consideration given to traffic management plan.
- ✓ Where flag men are required, both flag men, the foreman and guarding officer will all communicate via two-way radios.

MCE – Grid Connection Duct Installation Traffic Management Plan

Road Closure / Road Opening Licence Drawings:

The following drawings are included at the end of this document:

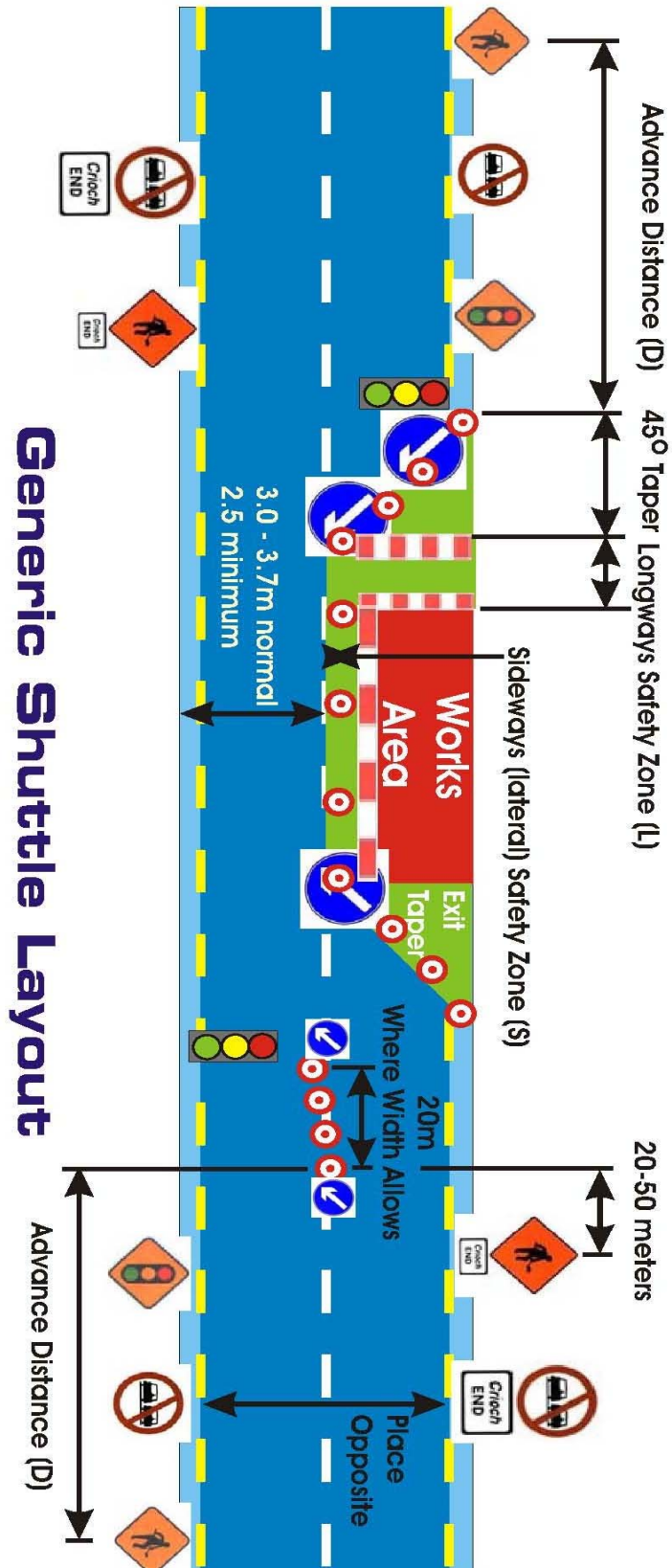
- ✓0059 – 612 – Road Closure – Section 1 – Overall Layout View
- ✓0059 – 613-1 – Sheet 1 of 4 – Location 1 Layout
- ✓0059 – 613-2 – Sheet 2 of 4 – Location 2 Works Area Layout
- ✓0059 – 613-3 – Sheet 3 of 4 – Location 3 & 4 Layout
- ✓0059 – 613-4 – Sheet 4 of 4 – Location 5 Layout

MCE – Grid Connection Duct Installation Traffic Management Plan

Signage Layout

The following is the layout for signage that will be in place on the approach to the works area in the closed sections of road which will be occurring on the L-2595-1. See attached drawings showing signage layout for the alterations to the road layout which will be occurring .

- ✓ Sign no 1: WK 001 (man with shovel) 600m before road works
- ✓ Sign no 2: (do not pass) 400m before road works
- ✓ Sign no 3: WK 032 or WK 033 (road narrows ahead) 200m before road works
- ✓ Cones with reflectors start 50m before works location.
- ✓ Statutory sign no 6 : (blue arrow) at start of cones.
- ✓ Signage after road works will indicate 'No Overtaking Ends' and 'End of Road Works'.
- ✓ Traffic entering and exiting existing secondary road will continue as normal with construction traffic kept to a minimum.
- ✓ See attached generic shuttle layout system for one-way stop and go. This shuttle layout will be set up onsite by the qualified signing lighting and guarding officer.



Generic Shuttle Layout

Method	Max Speed Limit (km/h)	Length of Works (m)	Max Traffic (veh/hr)	3 Min Count	Notes
All Stop	100 mpha		300		15-5-10 mins max.
Give and Take	50	50	400	20	Clear Visibility required from both directions
Priority	100	80	840	42	Speed Limit
	These Distances indicate the clear visibility distance from before an obstruction to a point an equal distance beyond the obstruction. If used at night, will require a warning beacon				50 km/h 60 km/h 80 km/h 100 km/h
Stop/Go	100	20	500	25	Can be Single Man/Single Sign 70 Can be single Man-Auto Sign 63 Can be single Man-Auto Sign 53 Has to be Two Man-Two Sign 48 Has to be Two Man-Two Sign 43 Has to be Two Man-Two Sign
Traffic Lights	100	500 mpha	n/a		Vehicle Actuated

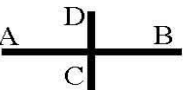
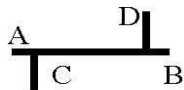
LAYOUT PARAMETER SELECTION SHEET

Type of Road	Advance Sign Distance (D) (m)	Type Of Advance Signs In Sequence	Min clear visibility of Signs (m)	Min size of signs (mm)	Min height of cones (mm)	Long. Safety Zone (L) (m)	Side. Safety Zone (S) (m)	Long. Cone Space	Long. Lamp Space	Lane Taper Multiply factor	Taper Cone Spacing	Taper Lamp Spacing	Lead-in cone tapers (See Notes below) Recommended lengths	Width of hazard (including safety zone) NOTE: TAPERS ARE ONLY WHERE TWO WAY TRAFFIC MAINTAINED				Hard Shoulder Taper Multiply factor
														1 m	2 m	3 m	4 m	
Single Carriageway road, 30km/h	50	1 (r.w.a.) 1 (t.m.)	50	600	450	5	0.5	6	12	8	3	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	8 4 2	16 7 3	24 10 4	32 12 5	4
Single Carriageway, 60km/h	50	1 (r.w.a.) 1 (t.m.)	50	600	450	5	0.5	6	12	8	3	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	8 4 2	16 7 3	24 10 4	32 12 5	4
Single Carriageway 80km/h	600	1 (r.w.a.) 1 (n.o.) 1 (t.m.)	90	750*	750	45	1.2	12	24	35	2.5	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	35 16 5	70 30 9	105 44 13	140 58 17	20
Single Carriageway 100 km/h	800	1 (r.w.a.) 1 (n.o.) 2 (t.m.)	120	750* 900*	750	60	1.2	12	24	40	1	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	40 42 6	80 82 10	120 122 15	160 162 19	20
Dual Carriageway 60 km/h	600	1 (r.w.a.) 2 (t.m.) X 2	50	900	450	5	0.5	6	12	8	3	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	8 4 2	16 7 3	24 10 4	32 12 5	4
Dual Carriageway 80 km/h	600	1 (r.w.a.) 2 (t.m.) X 2	90	900	750	45	0.75	12	24	35	3	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	35 13 5	70 25 9	105 37 13	140 48 17	10
Dual Carriageway 100 km/h	1000	2 (r.w.a.) 3 (t.m.) X 2	120	1200	750	45	1.2	12	24	40	1	9	Length of taper (T) in (m) Minimum No. of Cones Minimum No. of Lamps	40 42 6	80 82 10	120 122 15	160 162 19	20

9

TRAFFIC MANAGEMENT PLAN FOR ROUTINE WORKS

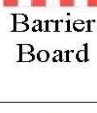
5) Road Schematic

6) Traffic Management Selection

6.1) Classification	Road Type	Road Width	Speed Limit	Urban/Rural	Traffic
					Heavy/ Light
6.2) Selection	All Stop	Give & Take	Priority	Stop/ Go	Lights
6.3) Semi-Static	Will Semi-Static Management be used?				Yes
					No

7) Signage (Warn / Inform / Direct / End)

No	Sign	Dir	No	Sign	Dir	No	Sign	Dir	No	Sign	Dir
1 + 2 ARE SEMI-STATIC		A	6		A	11		A	16		A
		B			B			B			
		C			C			C			
		D			D			D			
		A	7		A	12		A	17		A
		B			B			B			
		C			C			C			
		D			D			D			
		A	8		A	13		A	18		A
		B			B			B			
		C			C			C			
		D			D			D			
	A	9		A	14		A	19		A	
	B			B			B				
	C			C			C				
	D			D			D				
	A	10		A	15		A	20		A	
	B			B			B				
	C			C			C				
	D			D			D				

If Using Traffic Lights/ Stop-Go, Have Gardaí Been Notified?	YES	NO
Are All Required Cones /(Lamps & Beacons) In Place (and operating)?	YES	NO

8) Workforce Induction & Communication

8.1) Has this Plan been Communicated to the workforce and does everyone know their role? Operatives to Sign Below	Yes	No
8.2) Supervisor		

NOTIFICATION OF POSITIVE TRAFFIC CONTROL

Under the following Road Traffic Acts/Regulations

- Section 37 of the Road Traffic Act, 1994
- Road Traffic (Signs) Regulations 2006 (S.I. No. 637 of 2006)
- Road Traffic (Control of Traffic) Regulations 2006 (S.I. No. 638 of 2006)

The Roads Authority of

Hereby notifies

Of the use of

TEMPORARY TRAFFIC LIGHTS

☐

STOP-GO BOARD(s)

☐

at the following location:

Road

From a point

To a point

ON/ BETWEEN (delete as appropriate) the following dates

and

Observations (if any) should be faxed to:

Signed: _____

On behalf of the Roads Authority

PLANNED WORKS TRAFFIC MANAGEMENT SITE INSPECTION SHEET			
PROJECT NAME:		Phase:	
Date:	Time:	1).	2).
1) TRAFFIC MANAGEMENT SET-UP/ MODIFICATION, INSPECTIONS			
1-1) Installation Checks			
Does the Traffic Management conform to the Design Layout and Parameters?			
Have all hazards been addressed in the Traffic Management Plan?			
Has allowance been made for the delivery and removal of materials?			
Have Gardaí been informed of any Traffic Lights/ Stop-Go Boards in use?			
Have Gardaí been informed of Roadworks Speed limits being introduced?			
2) TRAFFIC MANAGEMENT OPERATION INSPECTIONS			
2-1) Operation Checks		1	2
Are Safety Zones being kept clear of operatives, plant and materials?			
Are all the signs in good condition/ are all cones in good condition with sleeves?			
Are sign vision lines free from bends, hills/dips in the road, parked vehicles, hedges etc?			
Will the site be safe at night or in wind, fog, snow or rain? (delete as appropriate)			
Are all misleading permanent signs and road markings covered?			
Is the carriageway/footway being kept clear of mud and surplus equipment?			
Are materials/ plant that are left on verges or lay-bys being properly guarded and lit?			
2-2) Traffic Checks			
Is there safe access to adjacent premises?			
Does Signing and Guarding meet the (changing) conditions?			
Are traffic control arrangements working at the optimum level to reduce traffic delays?			
If present, are the needs of cyclists or horse riders incorporated into the layout?			
2-3) Pedestrian & Vulnerable Road User Checks			
Have the needs of pedestrians & vulnerable road users been addressed in the layout?			
If pedestrian route blocked, has a suitable alternative route been provided?			
Are pedestrian routes clearly evident/ indicated?			
If a footway in the road is to be used, are ramps to the kerb provided?			
Are pedestrian hazards sufficiently GUARDED at night?			
3) TRAFFIC MANAGEMENT CESSATION INSPECTIONS			
3-1) Works Complete Checks			
Have all signs, cones, barriers, and lamps been removed?			
Have any covered permanent signs been restored?			
Have Gardaí been informed that Speedlimits/ Traffic Signals/ Stop-Go removed?			
4) EXCEPTIONS REPORT			
(Append attachments as necessary)			
Check Completed By:			

PROJECT CLOSEOUT SHEET	
PROJECT NAME:	

1) Procedures	
The extents of construction have been completed per the plans	
Pavement Surface has been visually inspected and deemed satisfactory (incl. sweeping of surfaces that have been surface dressed)	
Temporary Traffic Management arrangements (incl. Orders) have been removed	
Any Permanent Road Markings, Road Studs, and Signs have been installed	
2) Works Extents	
The length of work completed was (m)	
The average width of work completed was (m)	
3) Appointments	
PSDP appointment terminated	
Designer appointment terminated	
PSCS appointment terminated	
Contractor given completion certificate	
4) Records	
The safety file is complete and will be stored	
5) Site Inspection	
The site has been inspected by (print name) and deemed to be satisfactory:	
Signature:	
Date of inspection:	
6) Procedure Monitoring (to be completed by supervisor of person listed in 5 above)	
I recommend that the Project be deemed complete (print name)	
Signature:	
Date:	

INCIDENT/ ACCIDENT REPORT FORM

1) Job Details

1.1) Job Name	
1.2) Job Location	

2) Incident

2.1) Date of Incident	2.2) Time of Incident								
2.3) Incident Involves	Public	Layout	Operatives	Plant	Materials	Hired	Contractor	Environment	
2.4) Incident Classification	Class 1		Class 2		Class 3	Class 4			
	Long Traffic Delays	Pedestrian Danger	Near Miss	Minor Injury	3 Day Injury	Road Traffic Accident	Serious Injury or Death		
2.5) Weather Conditions	Light:	Sunny	Cloudy	Fog	Dawn/Dusk	Night	Floodlit		
	Rain:	Dry	Light Rain	Heavy Rain	Hailstones	Snow			
	Wind:	No Wind	Breeze	Windy	Gale				
	Temperature:	Warm		Cold	Freezing				
2.6) Locus	Carriageway	Footpath	Safety Zone	Working Space					
2.7) Pavement Condition	Clean	Dirty	Dry	Wet	Granular	Wearing	Base	Chips	Markings
2.8) Number involved (Class 2 or greater)									

3) Traffic Management

	N/A	Yes	No
3.1) Were the appropriate signs in their correct place?			
3.2) Were the signs in a good condition?			
3.3) Were all cones in place and in good condition?			
3.4) Were all TM Lamps in place and operating?			
3.5) Were all TM Beacons in place and operating?			
3.6) Were Plant Hazard Beacons operating?			

4) Site Health and Safety

	N/A	Yes	No
4.1) Had operative appropriate CSCS card?			
4.2) Had plant/ equipment been checked for suitability?			
4.3) Were Safety Guards in place and in good condition?			
4.4) Were correct operating procedures/ guidelines used?			
4.5) Were operatives wearing appropriate PPE?			
4.6) Was there good housekeeping on site?			

5) Emergency Procedure

5.1) Services	None	First Aid	Driven to Aid	Ambulance	Fire Brigade	Gardaí
5.2) Procedure		Good	Bad	None		
Training						
Equipment						

6) Operatives (List operatives on site at time of incident)

7) Incident Description

8) Suggested Control Measures to Prevent Re-Occurance

9) Incident Sketch

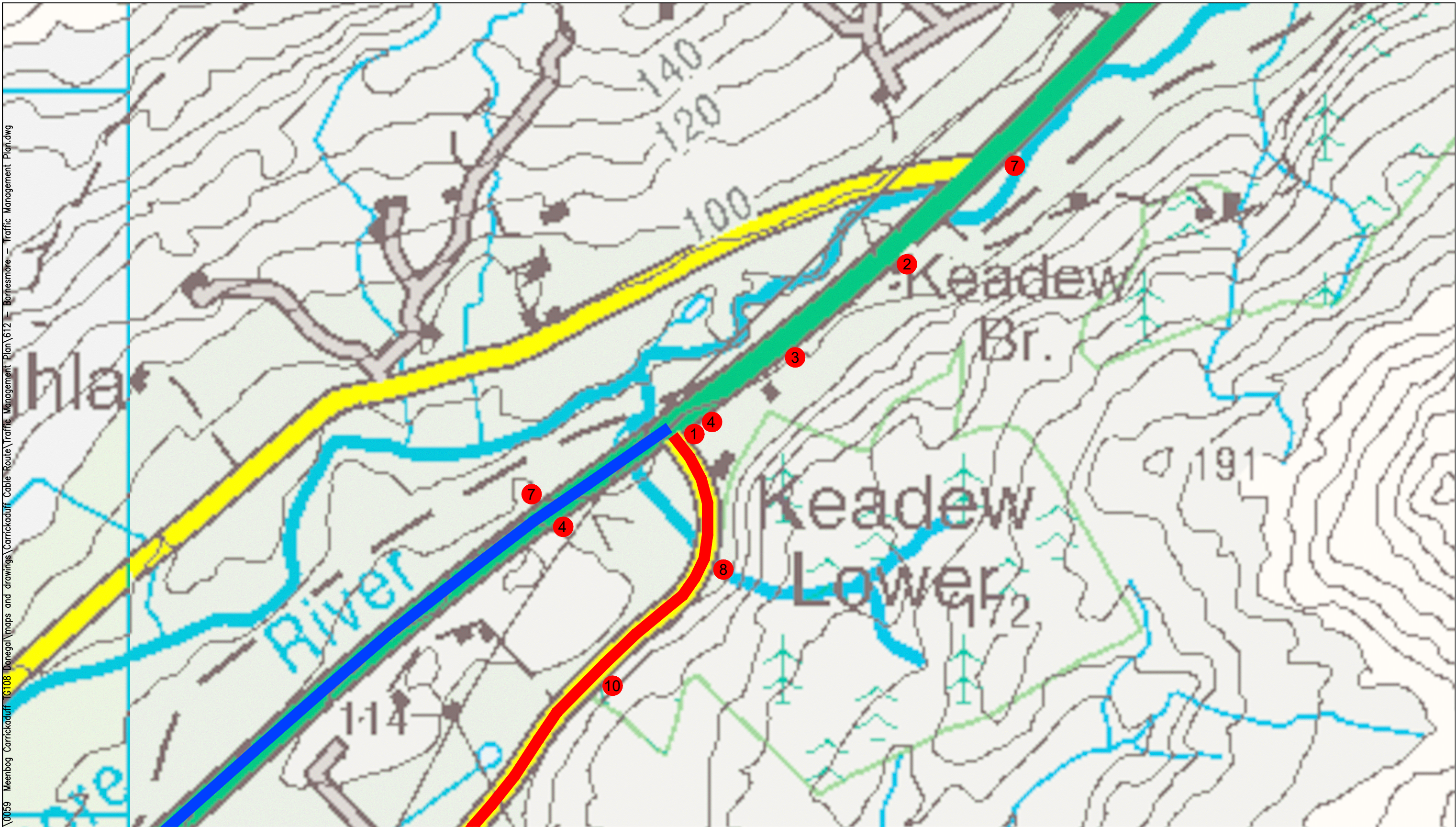
10) Report
Completed By:

11) Report
Noted By:

MCE – Grid Connection Duct Installation Traffic Management Plan

	Name (Print)	Signature	I understand the details in the traffic management plan and agree to sign off (tick)	Date
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

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- 1

Bóthar Dínta
ROAD CLOSED
LOCAL ACCESS ONLY
- 2

Malaírt Sli
DETOUR
400m
- 3

Malaírt Sli
DETOUR
200m
- 4

Trácht ar Mhalaírt Sli
DIVERTED TRAFFIC
- 5

Trácht ar Mhalaírt Sli
DIVERTED TRAFFIC
- 6

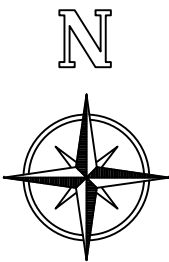
Trácht ar Mhalaírt Sli
DIVERTED TRAFFIC
- 7

Bhóthar díntiúil L-2595-1
Dínta Romhat -
Téigh Ar Mhalaírt Sli
LOCAL ROAD L-2595-1
CLOSED AHEAD
FOLLOW DIVERSIONS
- 8

Go Mall
SLOW
- 9

Crioch
END
- 10

No Trucks

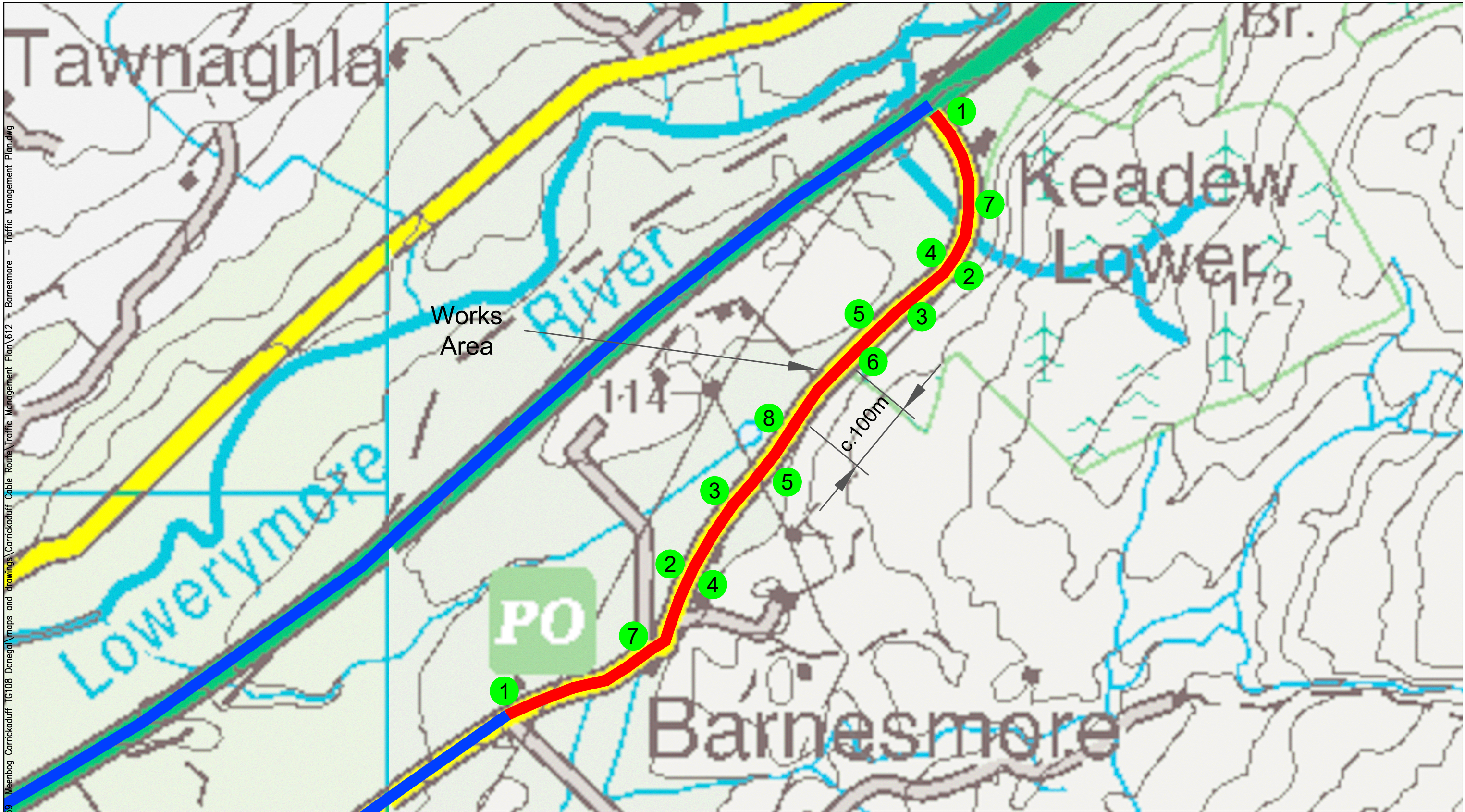


LEGEND:

1166m ROAD CLOSURE

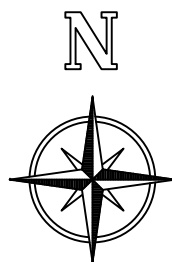
4142m PRIMARY DIVERSION ROUTE

Project Title: Meenbog WF Underground Cable		
Drawing Title: Barnesmore Section Location 1 - Sheet 1 of 4		
Date: 11.01.19	Prepared by: T.Scanlan	DRG No. 613-1
Scale: 1:5000@A3	Rev: 000	Job Ref: 0059



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- | | | | | | |
|---|---|---|---|---|---|
| 1 |  | 4 |  | 6 |  |
| 2 |  | |  | 7 |  |
| 3 |  | 5 |  | 8 |  |
-  
- 



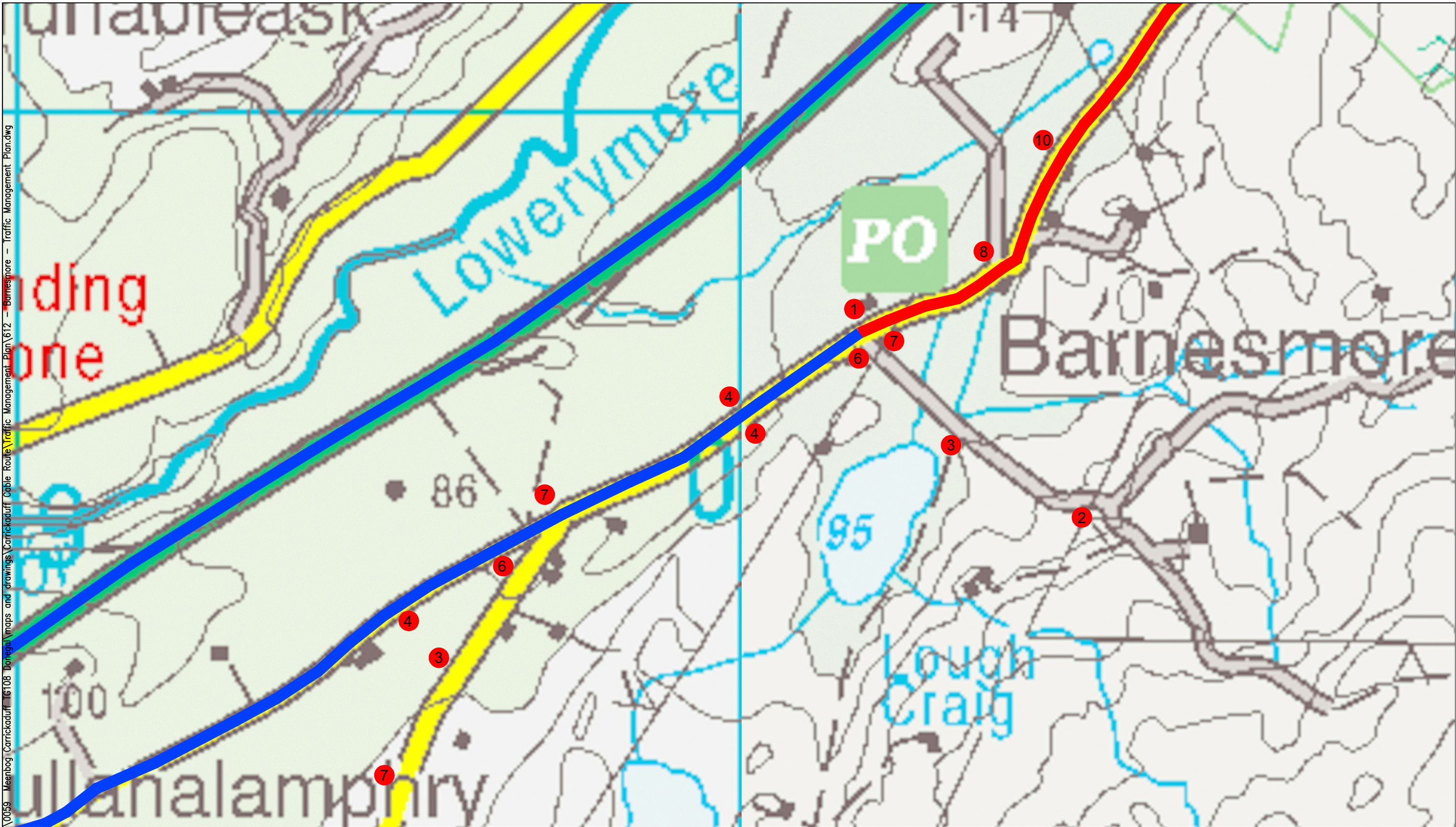
LEGEND:

1166m ROAD CLOSURE

4142m PRIMARY DIVERSION ROUTE



Project Title: Meenbog WF Underground Cable		
Drawing Title: Barnesmore Section Location 2 - Sheet 2 of 4		
Date: 11.01.19	Prepared by: T.Scanlan	DRG No. 613-2
Scale: 1:5000@A3	Rev: 000	Job Ref: 0059



- 1

Bóthar Dínta
ROAD CLOSED
LOCAL ACCESS ONLY
- 2

Malaírt Sli
DETOUR
400m
- 3

Malaírt Sli
DETOUR
200m
- 4

Trácht ar Mhalaírt Sli
DIVERTED TRAFFIC
- 5

Trácht ar Mhalaírt Sli
DIVERTED TRAFFIC
- 6

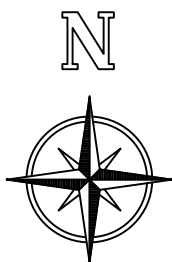
Trácht ar Mhalaírt Sli
DIVERTED TRAFFIC
- 7

Bhóthar áitiúil L-2595-1
Dínta Romhat -
Téigh Ar Mhalaírt Sli
LOCAL ROAD L-2595-1
CLOSED AHEAD
FOLLOW DIVERSIONS
- 8

Go Mall
SLOW
- 9

Crioch
END
- 10

No Trucks



LEGEND:

1166m ROAD CLOSURE

4142m PRIMARY DIVERSION ROUTE

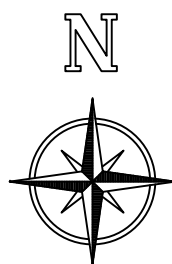


Project Title: Meenbog WF Underground Cable		
Drawing Title: Barnesmore Section Location 3 & 4 - Sheet 3 of 4		
Date: 11.01.19	Prepared by: T.Scanlan	DRG No. 613-3
Scale: 1:5000@A3	Rev: 000	Job Ref: 0059

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|---|---|---|---|---|--|----|--|
| 1 | Bóthar Dúnta
ROAD CLOSED
LOCAL ACCESS ONLY | 4 | Trácht ar Mhalaírt Sli
DIVERTED TRAFFIC | 7 | Bhóthar dúntúil L-2595-1
Dúnta Romhat -
Téigh Ar Mhalaírt Sli
LOCAL ROAD L-2595-1
CLOSED AHEAD
FOLLOW DIVERSIONS | 9 | 
Crioch
END |
| 2 | Malaírt Sli
DETOUR
400m | 5 | Trácht ar Mhalaírt Sli
DIVERTED TRAFFIC | 8 | 
Go Mall
SLOW | 10 |  |
| 3 | Malaírt Sli
DETOUR
200m | 6 | Trácht ar Mhalaírt Sli
DIVERTED TRAFFIC | | | | |



LEGEND:

1166m ROAD CLOSURE

4142m PRIMARY DIVERSION ROUTE



Project Title: Meenbog WF Underground Cable		
Drawing Title: Barnesmore Section Location 5 - Sheet 4 of 4		
Date: 11.01.19	Prepared by: T.Scanlan	DRG No. 613-4
Scale: 1:5000@A3	Rev: 000	Job Ref: 0059