

Dwelling in Drumhead	
2010DM: 56.0dB	2010DS: 56.6dB
2025DM: 55.7dB	2025DS: 55.7dB
2010DS - 2010DM: 0.6dBA change	
Comment: Ground Floor LA10 18hour	

Dwellings of South Orrock	
2010DM: 58.2dB	2010DS: 62.8dB
2025DM: 59.2dB	2025DS: 63.8dB
2010DS - 2010DM: 4.6dBA change	
Comment: Ground Floor LA10 18hour	

Pettens	
2010DM: 58.8dB	2010DS: 55.4dB
2025DM: 59.8dB	2025DS: 56.3dB
2010DS - 2010DM: -3.4dBA change	

Drum head Lodge	
2010DM: 61.8dB	2010DS: 63.1dB
2025DM: 62.7dB	2025DS: 64.1dB
2010DS - 2010DM: 1.3dBA change	
Comment: Ground Floor LA10 18hour	

Dwellings of Orrock House	
2010DM: 52.9dB	2010DS: 57.3dB
2025DM: 53.9dB	2025DS: 58.3dB
2010DS - 2010DM: 4.4dBA change	
Comment: Ground Floor LA10 18hour	

Mitigation Measure NV 16 - 1.6m high stone wall or timer barrier between ch. 320 to 550 on top of 0.8m high earth bund between ch. 320 to 520, or equivalent earth bund.

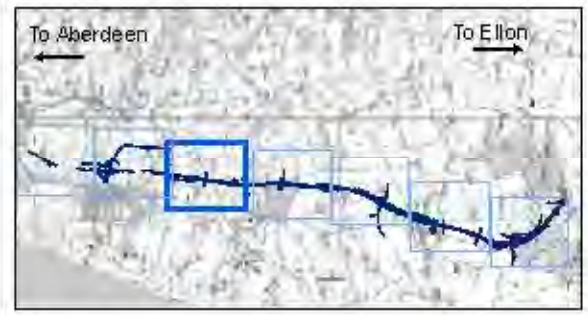
Mitigation Measure NV 17 - 1.5m high stone wall, timer barrier or earth bund

The Bungalow	
2010DM: 71.0dB	2010DS: 67.7dB
2025DM: 71.9dB	2025DS: 68.6dB
2010DS - 2010DM: -3.3dBA change	
Comment: Ground Floor LA10 18hour	

Dwellings of North of Blairton	
2010DM: 60.8dB	2010DS: 59.5dB
2025DM: 61.8dB	2025DS: 60.4dB
2010DS - 2010DM: -1.3dBA change	
Comment: Ground Floor LA10 18hour	

The Cock and Bull	
2010DM: 74.2dB	2010DS: 54.9dB
2025DM: 75.1dB	2025DS: 55.0dB
2010DS - 2010DM: -19.3dBA change	
Comment: Ground Floor LA10 18hour Predicted front facade decreases of greater magnitude than rear facade increases. Overall beneficial effect.	

Sidney Cottage	
2010DM: 77.0dB	2010DS: 61.5dB
2025DM: 77.9dB	2025DS: 62.2dB
2010DS - 2010DM: -15.5dBA change	
Comment: Ground Floor LA10 18hour	



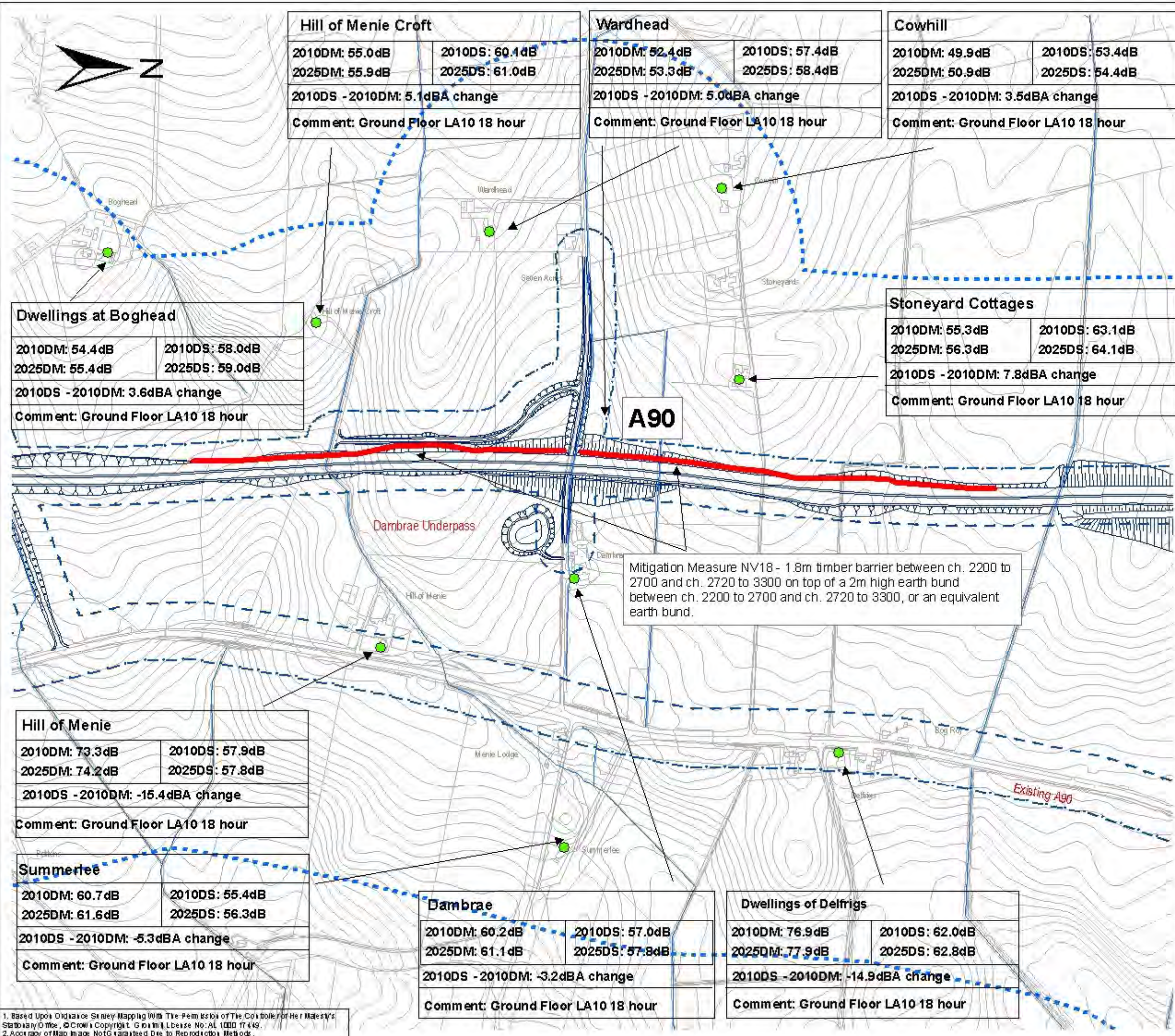
- Key:**
- Prediction locations
 - Barriers
 - Core study area - 40m buffer
 - Core study area - 300m buffer
 - Water courses
 - Road layout

Drawn by: LWT
 Checked by: JP
 Date: 08/07

A90 Dualling - Balmedie to Tippetry
Predicted Sample Receptor Point Noise Levels and Proposed Noise Mitigation Measures

Figure 14.3c
 Scale 1:5000 at A3

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Hill of Menie Croft	
2010DM: 55.0dB	2010DS: 60.4dB
2025DM: 55.9dB	2025DS: 61.0dB
2010DS - 2010DM: 5.1dBA change	
Comment: Ground Floor LA10 18 hour	

Wardhead	
2010DM: 52.4dB	2010DS: 57.4dB
2025DM: 53.3dB	2025DS: 58.4dB
2010DS - 2010DM: 5.0dBA change	
Comment: Ground Floor LA10 18 hour	

Cowhill	
2010DM: 49.9dB	2010DS: 53.4dB
2025DM: 50.9dB	2025DS: 54.4dB
2010DS - 2010DM: 3.5dBA change	
Comment: Ground Floor LA10 18 hour	

Dwellings at Boghead	
2010DM: 54.4dB	2010DS: 58.0dB
2025DM: 55.4dB	2025DS: 59.0dB
2010DS - 2010DM: 3.6dBA change	
Comment: Ground Floor LA10 18 hour	

Stoneyard Cottages	
2010DM: 55.3dB	2010DS: 63.1dB
2025DM: 56.3dB	2025DS: 64.1dB
2010DS - 2010DM: 7.8dBA change	
Comment: Ground Floor LA10 18 hour	

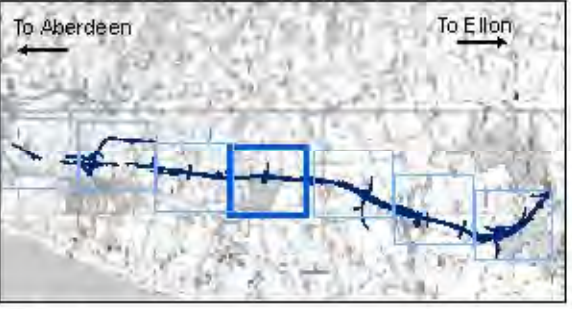
Hill of Menie	
2010DM: 73.3dB	2010DS: 57.9dB
2025DM: 74.2dB	2025DS: 57.8dB
2010DS - 2010DM: -15.4dBA change	
Comment: Ground Floor LA10 18 hour	

Summerlee	
2010DM: 60.7dB	2010DS: 55.4dB
2025DM: 61.6dB	2025DS: 56.3dB
2010DS - 2010DM: -5.3dBA change	
Comment: Ground Floor LA10 18 hour	

Dambrae	
2010DM: 60.2dB	2010DS: 57.0dB
2025DM: 61.1dB	2025DS: 57.8dB
2010DS - 2010DM: -3.2dBA change	
Comment: Ground Floor LA10 18 hour	

Dwellings of Delfrigs	
2010DM: 76.9dB	2010DS: 62.0dB
2025DM: 77.9dB	2025DS: 62.8dB
2010DS - 2010DM: -14.9dBA change	
Comment: Ground Floor LA10 18 hour	

Mitigation Measure NV18 - 1.8m timber barrier between ch. 2200 to 2700 and ch. 2720 to 3300 on top of a 2m high earth bund between ch. 2200 to 2700 and ch. 2720 to 3300, or an equivalent earth bund.



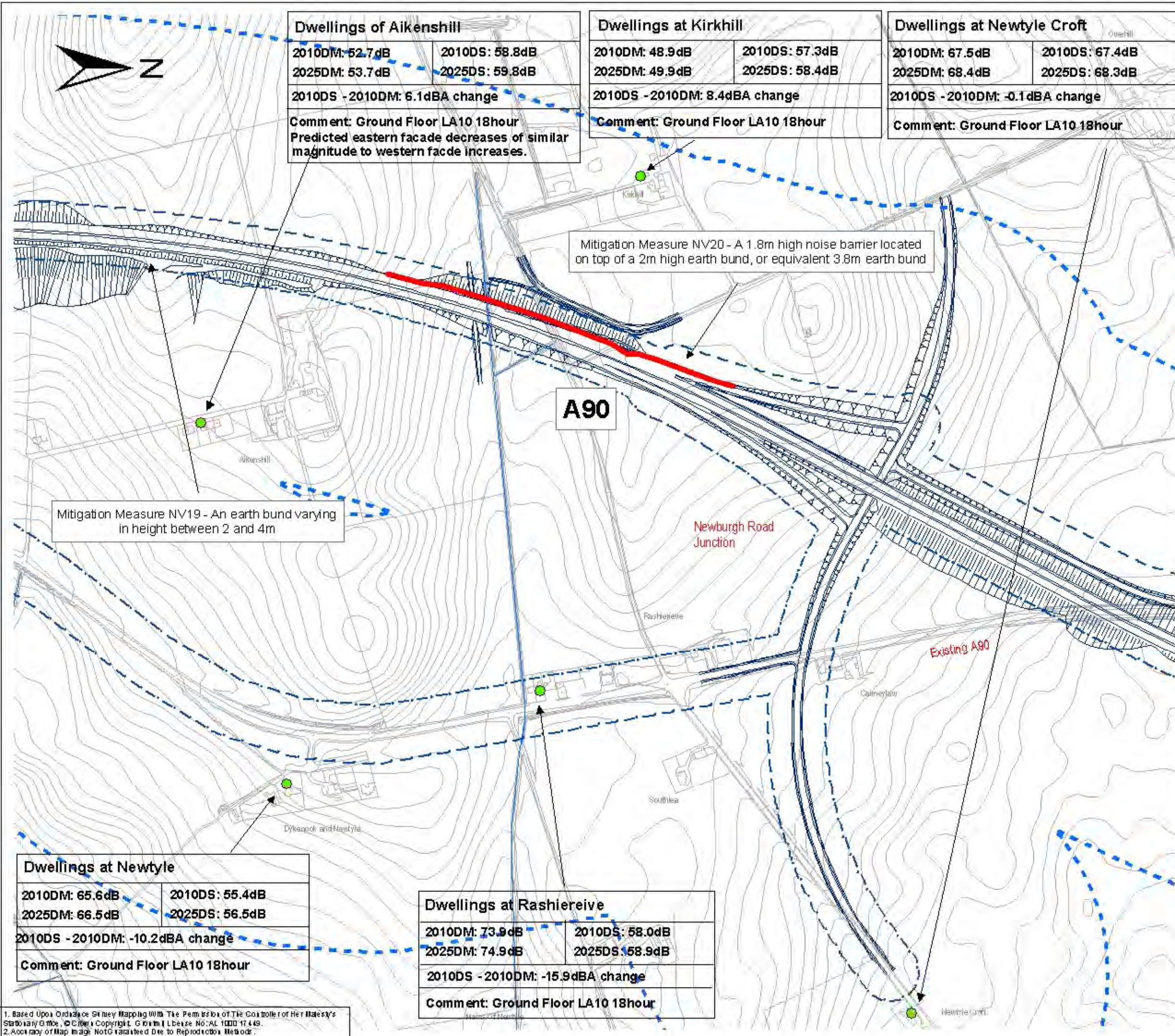
- Key:**
- Prediction locations
 - Barriers
 - Core study area - 40m buffer
 - Core study area - 300m buffer
 - Water courses
 - Road layout

Drawn by:	Checked by:	Date:
LWT	JP	08/07

A90 Dualling - Balmedie to Tippetry
Predicted Sample Receptor Point Noise Levels and Proposed Noise Mitigation Measures

Figure 14.3d
 Scale 1:5000 at A3

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Dwellings of Aikenshill	
2010DM: 52.7dB	2010DS: 58.8dB
2025DM: 53.7dB	2025DS: 59.8dB
2010DS - 2010DM: 6.1dBA change	
Comment: Ground Floor LA10 18hour Predicted eastern facade decreases of similar magnitude to western facade increases.	

Dwellings at Kirkhill	
2010DM: 48.9dB	2010DS: 57.3dB
2025DM: 49.9dB	2025DS: 58.4dB
2010DS - 2010DM: 8.4dBA change	
Comment: Ground Floor LA10 18hour	

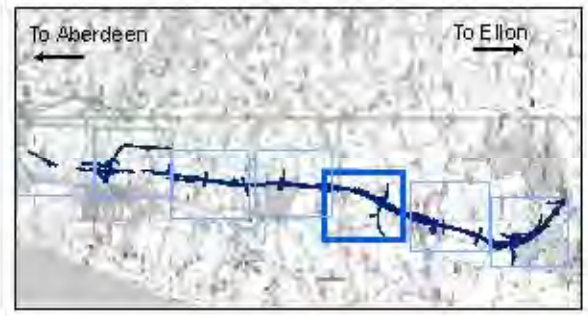
Dwellings at Newtyle Croft	
2010DM: 67.5dB	2010DS: 67.4dB
2025DM: 68.4dB	2025DS: 68.3dB
2010DS - 2010DM: -0.1dBA change	
Comment: Ground Floor LA10 18hour	

Mitigation Measure NV20 - A 1.8m high noise barrier located on top of a 2m high earth bund, or equivalent 3.8m earth bund

Mitigation Measure NV19 - An earth bund varying in height between 2 and 4m

Dwellings at Newtyle	
2010DM: 65.6dB	2010DS: 55.4dB
2025DM: 66.5dB	2025DS: 56.5dB
2010DS - 2010DM: -10.2dBA change	
Comment: Ground Floor LA10 18hour	

Dwellings at Rashiereive	
2010DM: 73.9dB	2010DS: 58.0dB
2025DM: 74.9dB	2025DS: 58.9dB
2010DS - 2010DM: -15.9dBA change	
Comment: Ground Floor LA10 18hour	



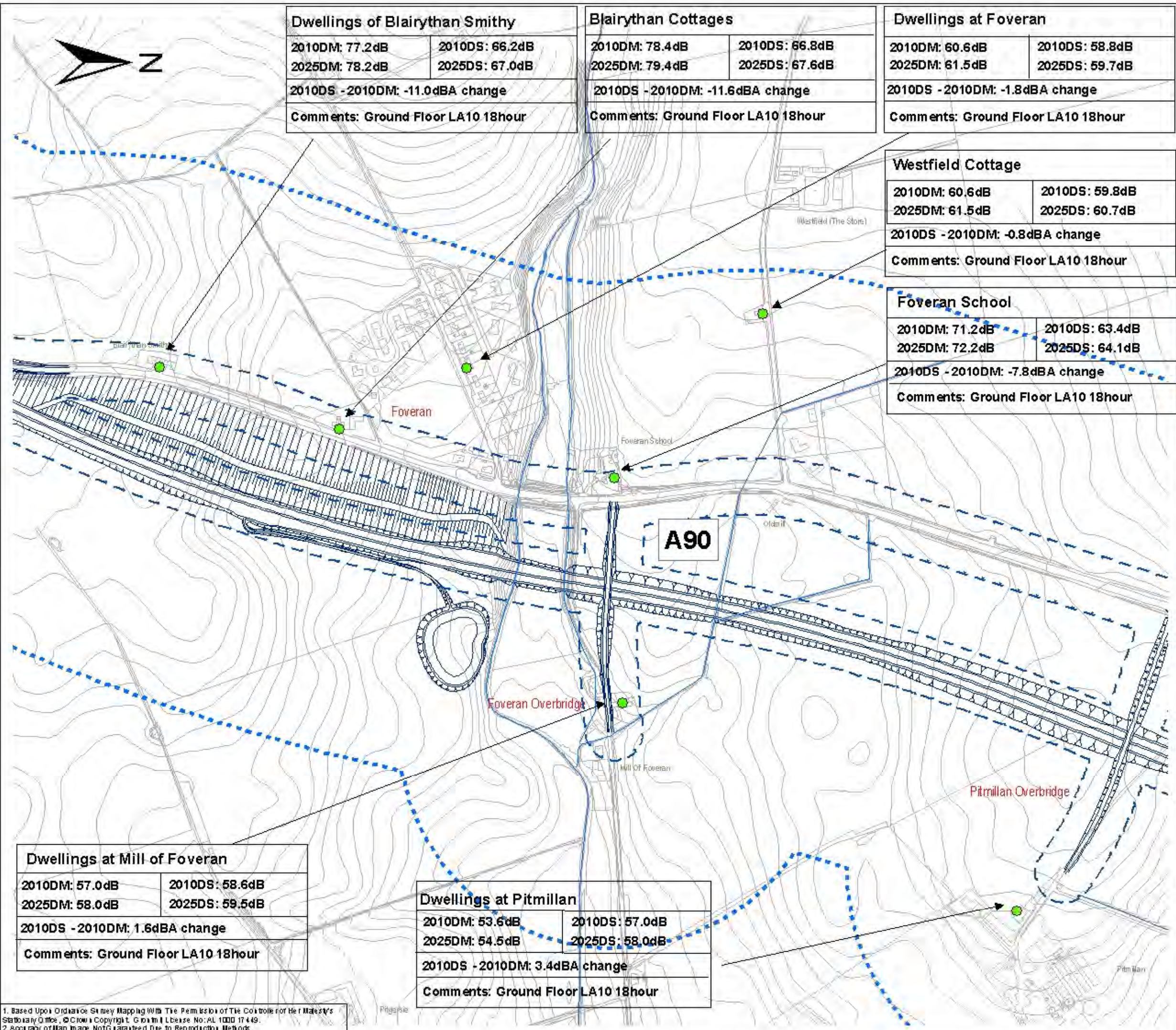
- Key:**
- Prediction locations
 - Barriers
 - Core study area - 40m buffer
 - Core study area - 300m buffer
 - Water courses
 - Road layout

Drawn by: LWT	Checked by: JP	Date: 08/07
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A90 Dualling - Balmedie to Tippierty
Predicted Sample Receptor Point Noise Levels and Proposed Noise Mitigation Measures

Figure 14.3e
 Scale 1:5000 at A3

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Dwellings of Blairythan Smithy	
2010DM: 77.2dB	2010DS: 66.2dB
2025DM: 78.2dB	2025DS: 67.0dB
2010DS - 2010DM: -11.0dBA change	
Comments: Ground Floor LA10 18hour	

Blairythan Cottages	
2010DM: 78.4dB	2010DS: 66.8dB
2025DM: 79.4dB	2025DS: 67.6dB
2010DS - 2010DM: -11.6dBA change	
Comments: Ground Floor LA10 18hour	

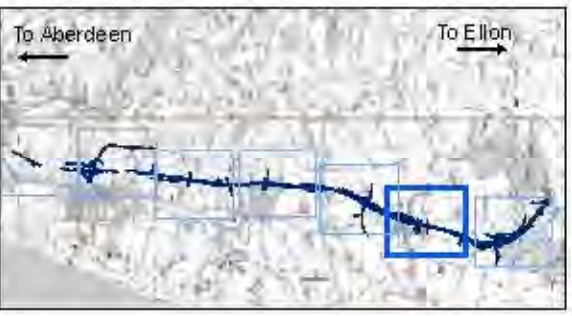
Dwellings at Foveran	
2010DM: 60.6dB	2010DS: 58.8dB
2025DM: 61.5dB	2025DS: 59.7dB
2010DS - 2010DM: -1.8dBA change	
Comments: Ground Floor LA10 18hour	

Westfield Cottage	
2010DM: 60.6dB	2010DS: 59.8dB
2025DM: 61.5dB	2025DS: 60.7dB
2010DS - 2010DM: -0.8dBA change	
Comments: Ground Floor LA10 18hour	

Foveran School	
2010DM: 71.2dB	2010DS: 63.4dB
2025DM: 72.2dB	2025DS: 64.1dB
2010DS - 2010DM: -7.8dBA change	
Comments: Ground Floor LA10 18hour	

Dwellings at Mill of Foveran	
2010DM: 57.0dB	2010DS: 58.6dB
2025DM: 58.0dB	2025DS: 59.5dB
2010DS - 2010DM: 1.6dBA change	
Comments: Ground Floor LA10 18hour	

Dwellings at Pitmillan	
2010DM: 53.6dB	2010DS: 57.0dB
2025DM: 54.5dB	2025DS: 58.0dB
2010DS - 2010DM: 3.4dBA change	
Comments: Ground Floor LA10 18hour	



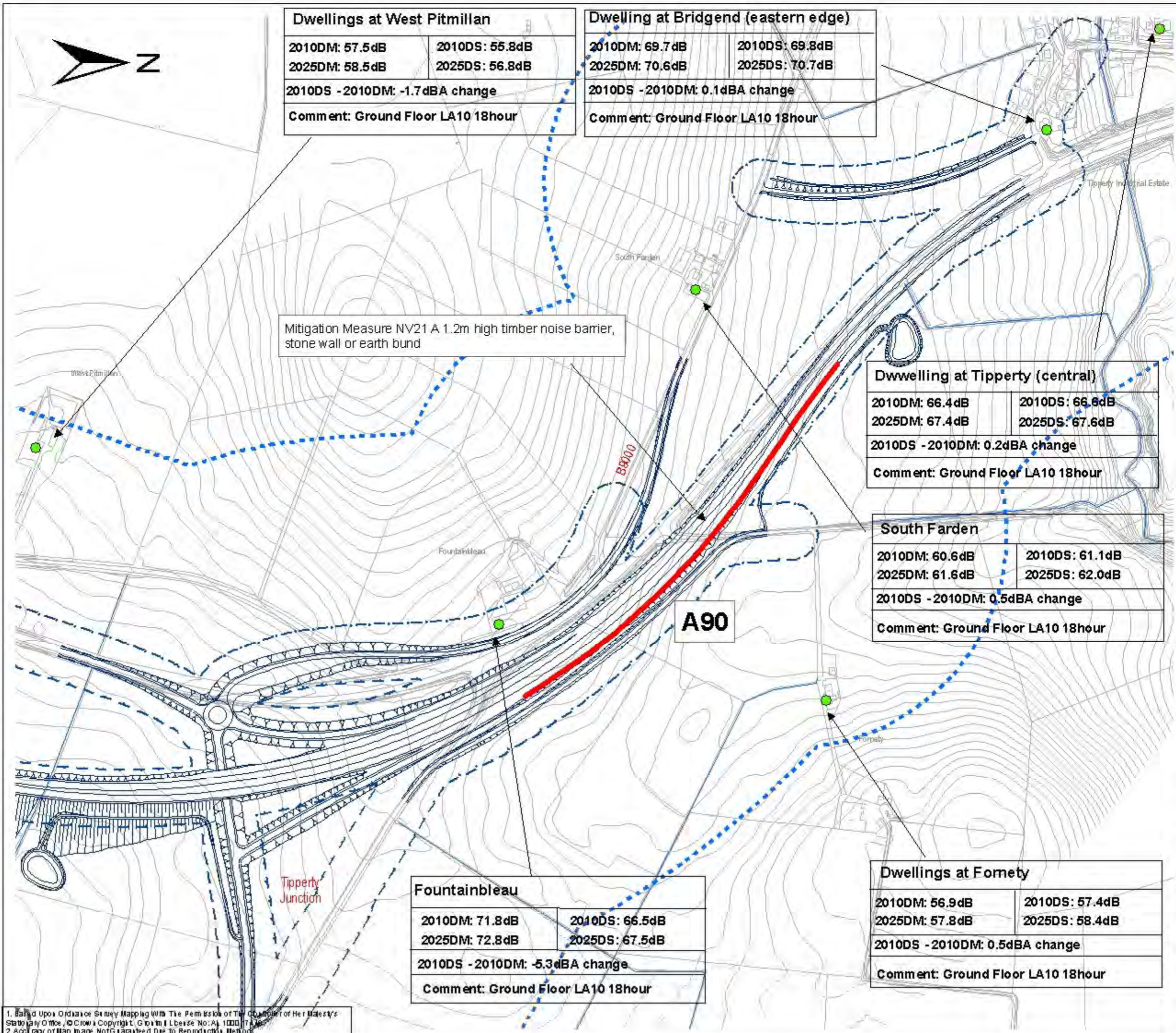
- Key:**
- Prediction locations
 - Barriers
 - Core study area - 40m buffer
 - Core study area - 300m buffer
 - Water courses
 - Road layout

Drawn by:	Checked by:	Date:
LWT	JP	08/07

**A90 Dualling - Balmedie to Tipperty
Predicted Sample Receptor
Point Noise Levels and
Proposed Noise Mitigation
Measures**

Figure 14.3f
Scale 1:5000 at A3

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Dwellings at West Pitmillan	
2010DM: 57.5dB	2010DS: 55.8dB
2025DM: 58.5dB	2025DS: 56.8dB
2010DS - 2010DM: -1.7dBA change	
Comment: Ground Floor LA10 18hour	

Dwelling at Bridgend (eastern edge)	
2010DM: 69.7dB	2010DS: 69.8dB
2025DM: 70.6dB	2025DS: 70.7dB
2010DS - 2010DM: 0.1dBA change	
Comment: Ground Floor LA10 18hour	

Dwelling at Tipperty (central)	
2010DM: 66.4dB	2010DS: 66.6dB
2025DM: 67.4dB	2025DS: 67.6dB
2010DS - 2010DM: 0.2dBA change	
Comment: Ground Floor LA10 18hour	

South Farden	
2010DM: 60.6dB	2010DS: 61.1dB
2025DM: 61.6dB	2025DS: 62.0dB
2010DS - 2010DM: 0.5dBA change	
Comment: Ground Floor LA10 18hour	

Fountainbleau	
2010DM: 71.8dB	2010DS: 66.5dB
2025DM: 72.8dB	2025DS: 67.5dB
2010DS - 2010DM: -5.3dBA change	
Comment: Ground Floor LA10 18hour	

Dwellings at Fomety	
2010DM: 56.9dB	2010DS: 57.4dB
2025DM: 57.8dB	2025DS: 58.4dB
2010DS - 2010DM: 0.5dBA change	
Comment: Ground Floor LA10 18hour	

Mitigation Measure NV21 A 1.2m high timber noise barrier, stone wall or earth bund



- Key:**
- Prediction locations
 - Barriers
 - Core study area - 40m buffer
 - Cores study area - 300m buffer
 - Water courses
 - Road layout

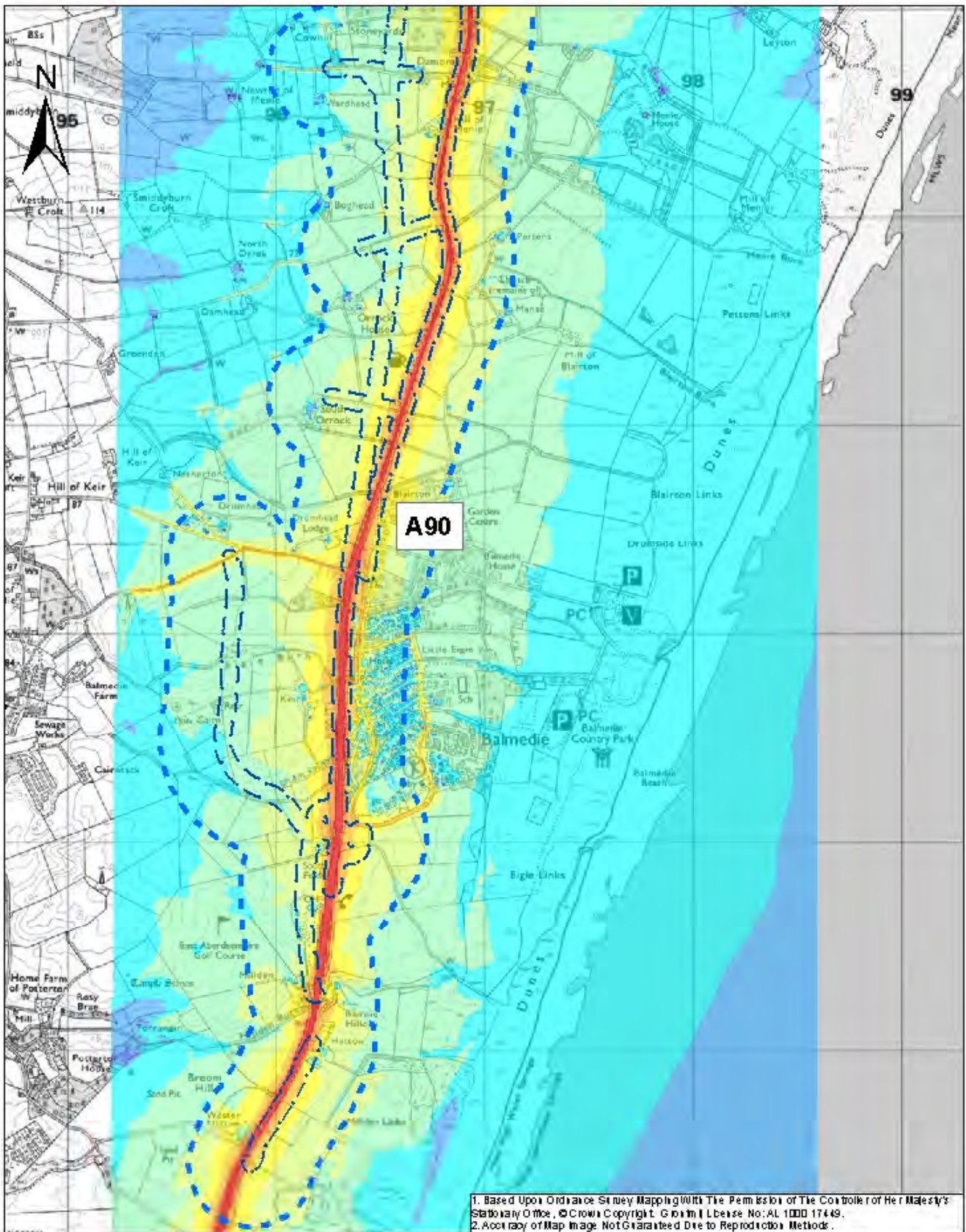
Drawn by: LWT	Checked by: JP	Date: 08/07
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A90 Dualling - Balmedie to Tipperty

Predicted Sample Receptor Point Noise Levels and Proposed Noise Mitigation Measures

Figure 14.3g
Scale 1:5000 at A3

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drawn by: LWT checked by: jp date: 08/07

Key: Do Minimum 2010 LA10 - 18hour dB Free-field

Core study area - 40m buffer	40 - 45	60 - 65
Core study area - 300m buffer	45 - 50	65 - 70
< 35	50 - 55	70 - 75
35 - 40	55 - 60	75 +

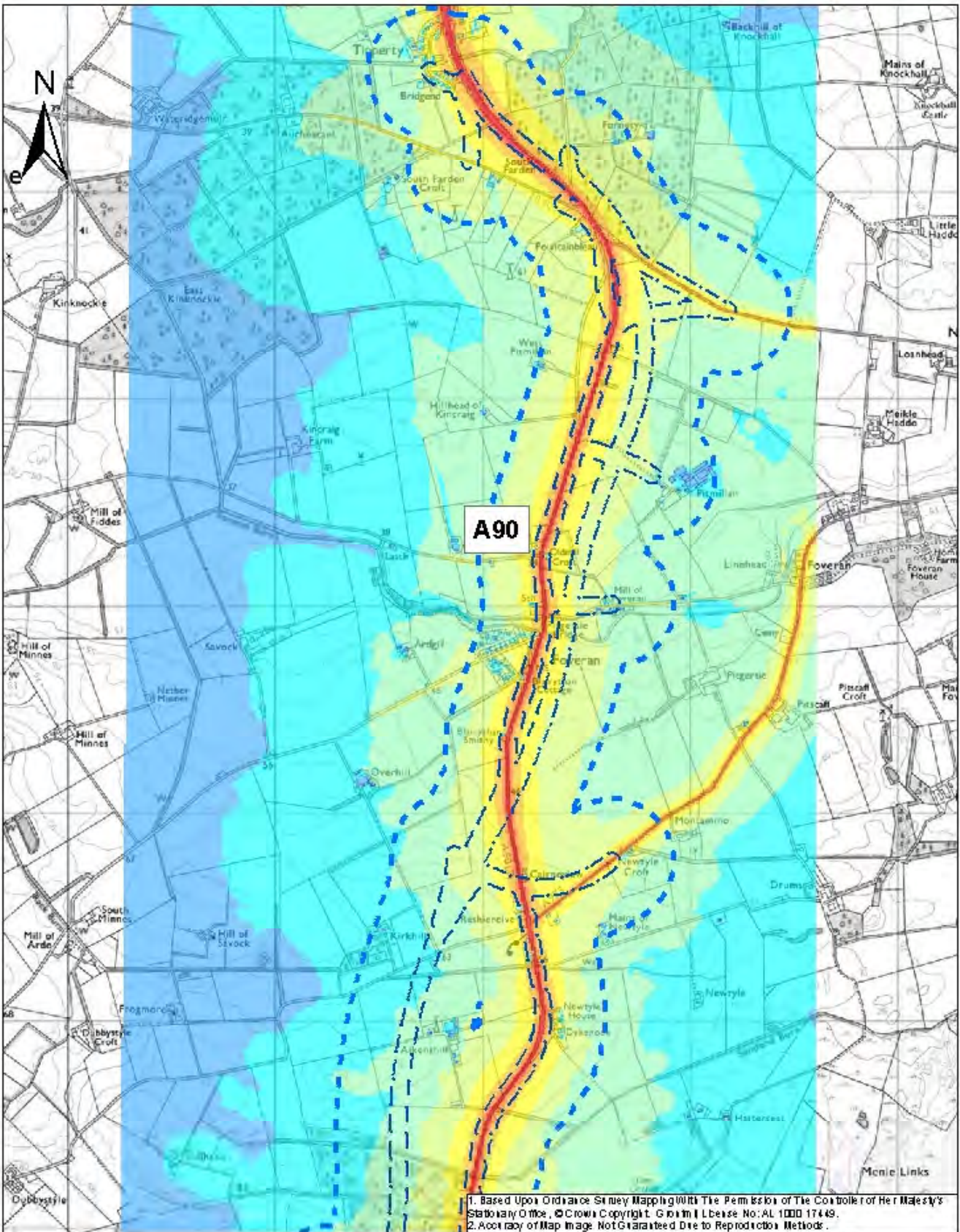
A90 Dualling - Balmedie to Tipperty

Noise Map for 2010
Do Minimum (DM)

Figure 14.4a

scale 1:25,000 @ A4





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drawn by: LWT checked by: jp date: 08/07

Key: Do Minimum 2010 LA10 - 18hour dB Free-field

Core study area - 40m buffer	40 - 45	60 - 65
Core study area - 300m buffer	45 - 50	65 - 70
< 35	50 - 55	70 - 75
35 - 40	55 - 60	75 +

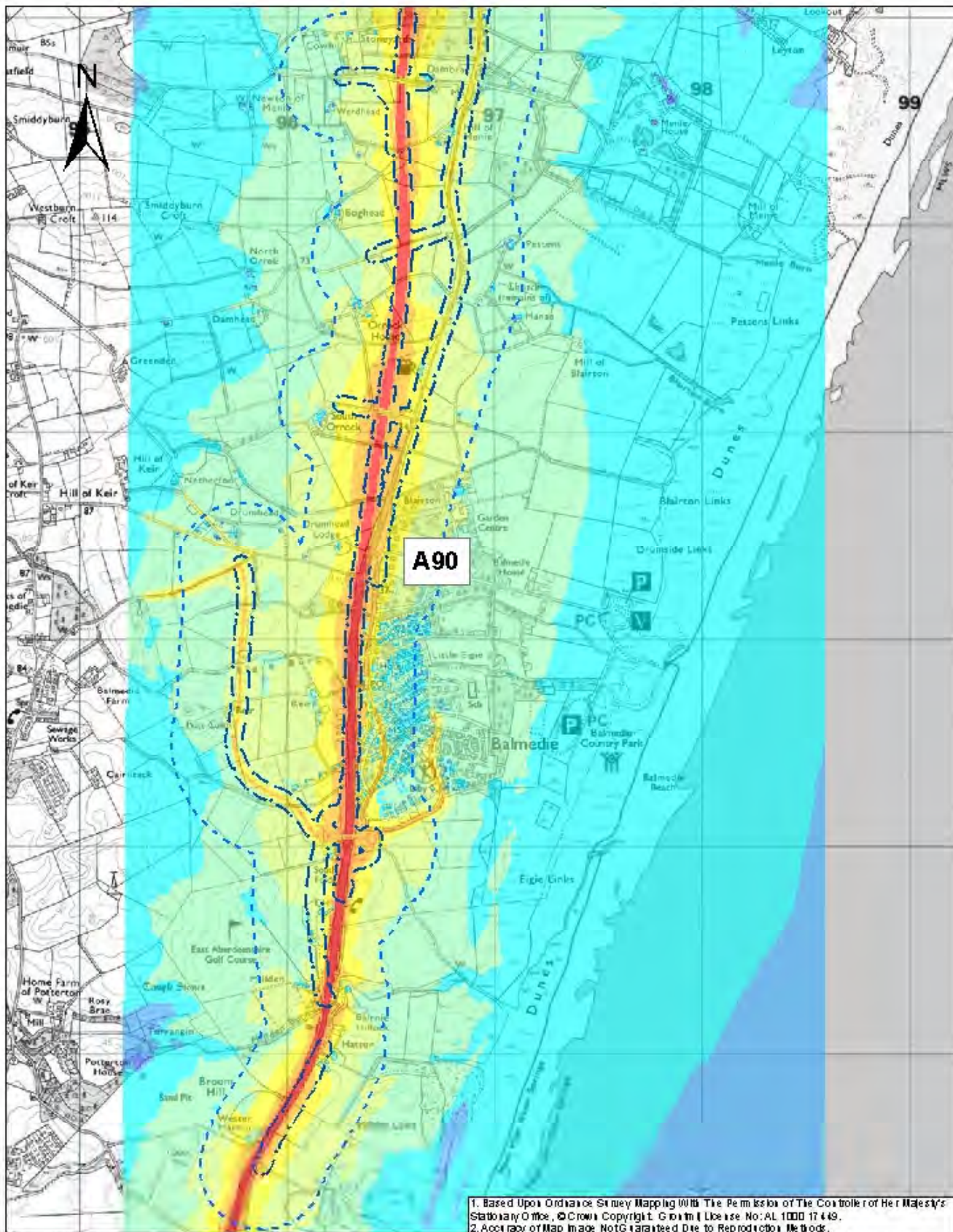
A90 Dualling - Balmedie to Tipperty

Noise Map for 2010
Do Minimum (DM)

Figure 14.4b

scale 1:25,000 @ A4





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drawn by: LVT checked by: JP date: 08/07

Key: Do Something 2010 LA10 - 18hour dB Free-field

Core study area - 40m buffer	40 - 45	60 - 65
Core study area - 300m buffer	45 - 50	65 - 70
< 35	50 - 55	70 - 75
35 - 40	55 - 60	75 +

A90 Dualling - Balmedie to Tipperty

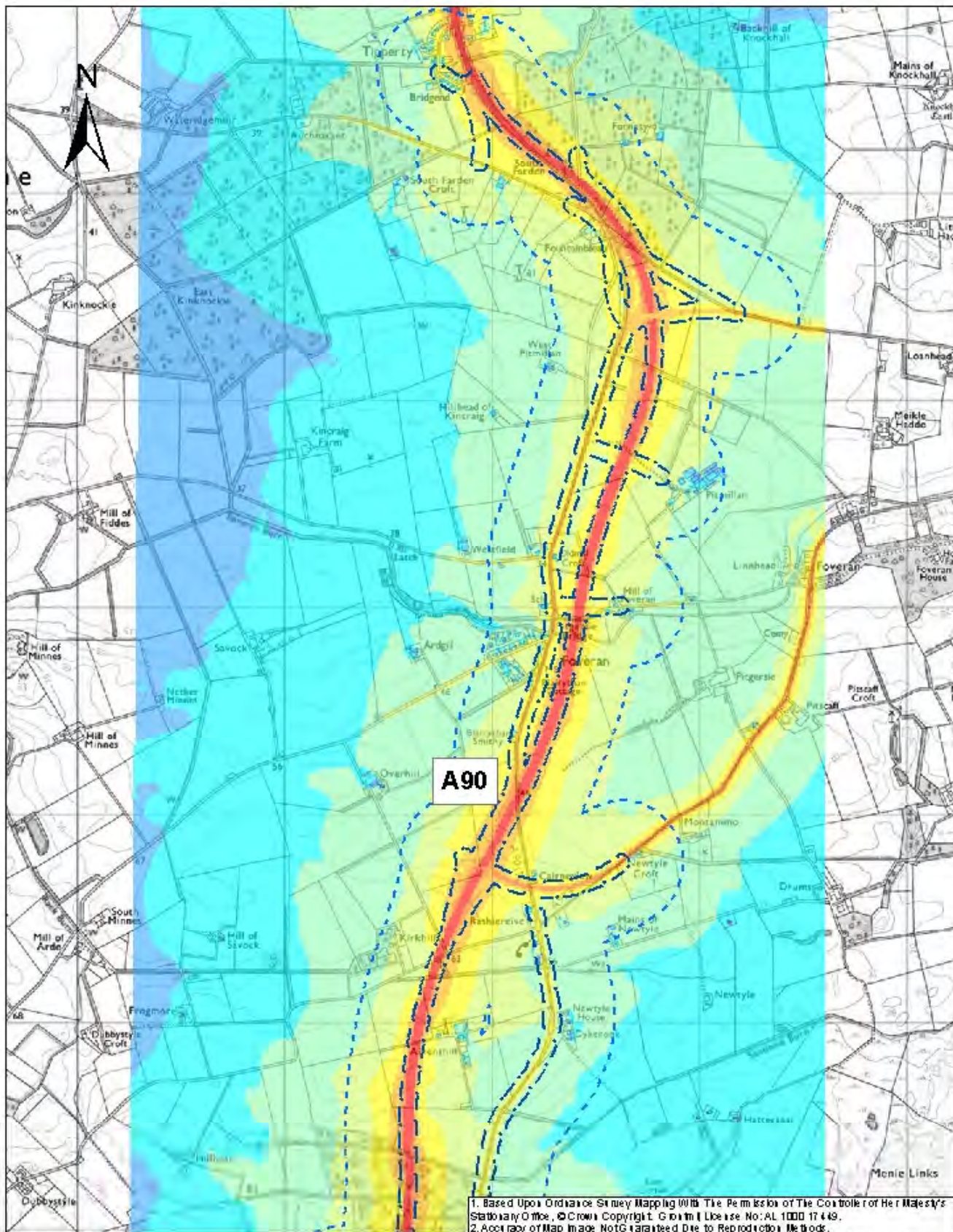
Noise Map for 2010
Do Something (DS)

Figure 14.5a

scale 1:25,000 @ A4



Approved:  20/08/07



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drawn by: LWT | checked by: JP | date: 08/07

Key: Do Something 2010 LA10 - 18hour dB Free-field

	Core study area - 40m buffer		40 - 45		60 - 65
	Core study area - 300m buffer		45 - 50		65 - 70
	< 35		50 - 55		70 - 75
	35 - 40		55 - 60		75 +

A90 Dualling - Balmedie to Tippetty

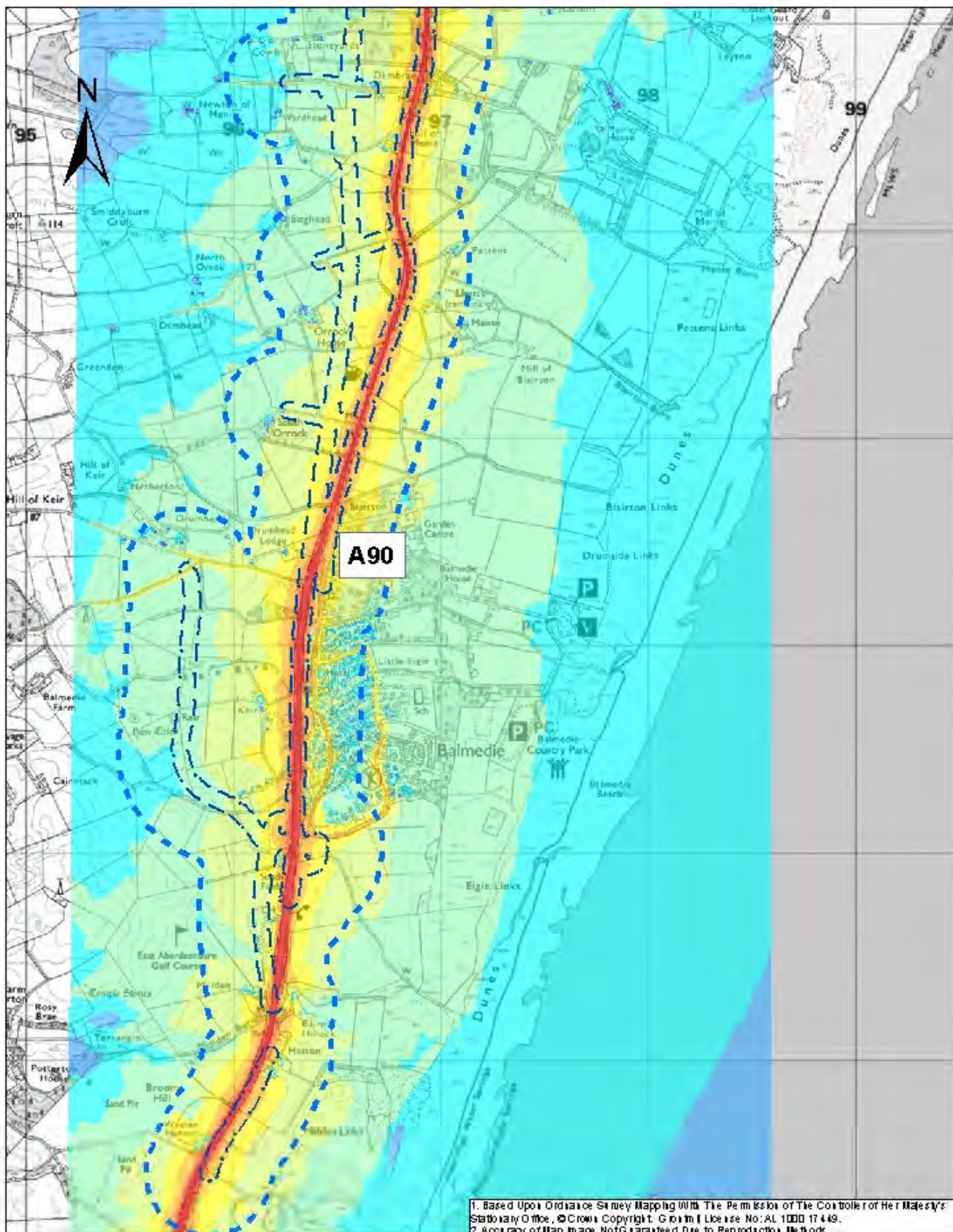
Noise Map for 2010
 Do Something (DS)

Figure 14.5b

scale 1:25,000 @ A4



Approved: 08/07



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Key: Do Minimum 2025 LA10- 18hour dB Free-field

Core study area - 40m buffer	40 - 45	60 - 65
Core study area - 300m buffer	45 - 50	65 - 70
< 35	50 - 55	70 - 75
35 - 40	55 - 60	75 +

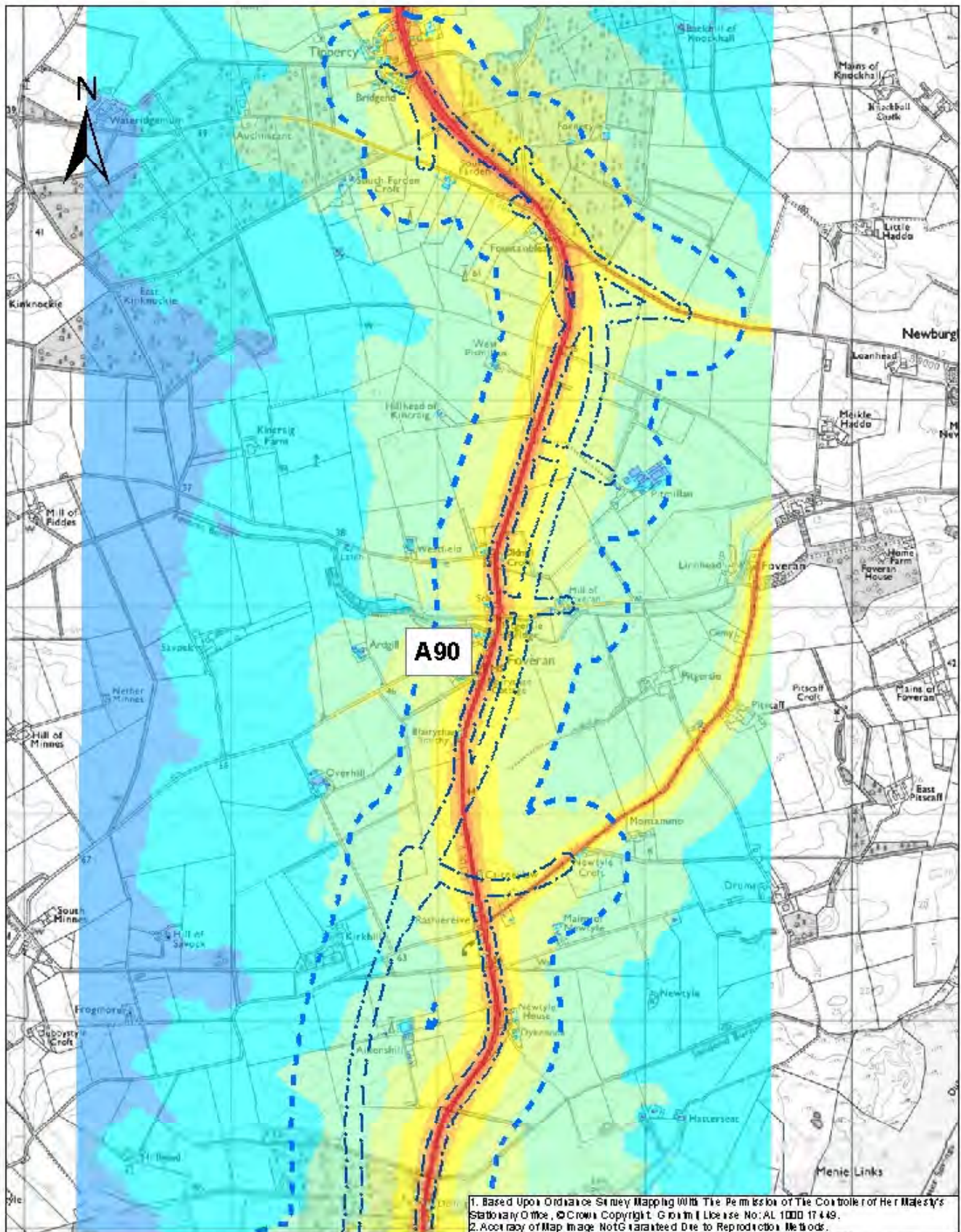
A90 Dualling - Balmedie to Tipperty

Noise Map for 2025
Do Minimum (DM)

Figure 14.6a

scale 1:25,000@ A4





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Key: Do Minimum 2025 LA10 - 18hour dB Free-field

Core study area - 40m buffer		
Core study area - 300m buffer		
< 35		

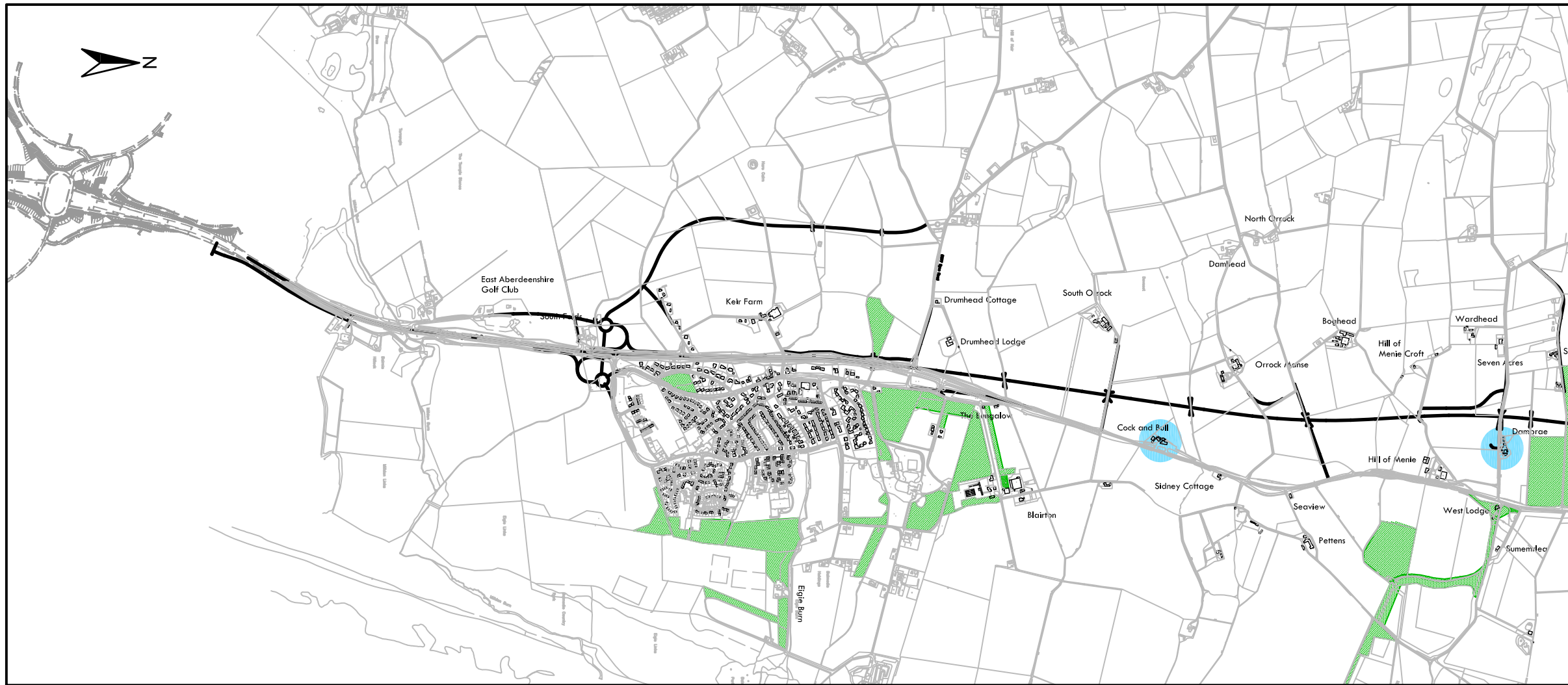
drawn by: LWT checked by: JP date: 08/07
 A90 Dualling - Balmedie to Tippetry

Noise Map for 2025
 Do Minimum (DM)

Figure 14.6b

scale 1:25,000 @ A4





Key:

- Properties selected for further Investigation of localised Pollution Effects
- Proposed Route (A90(T))

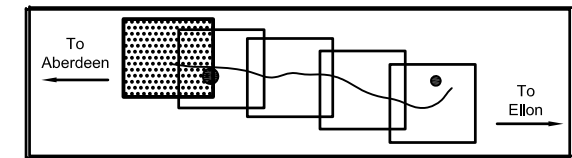
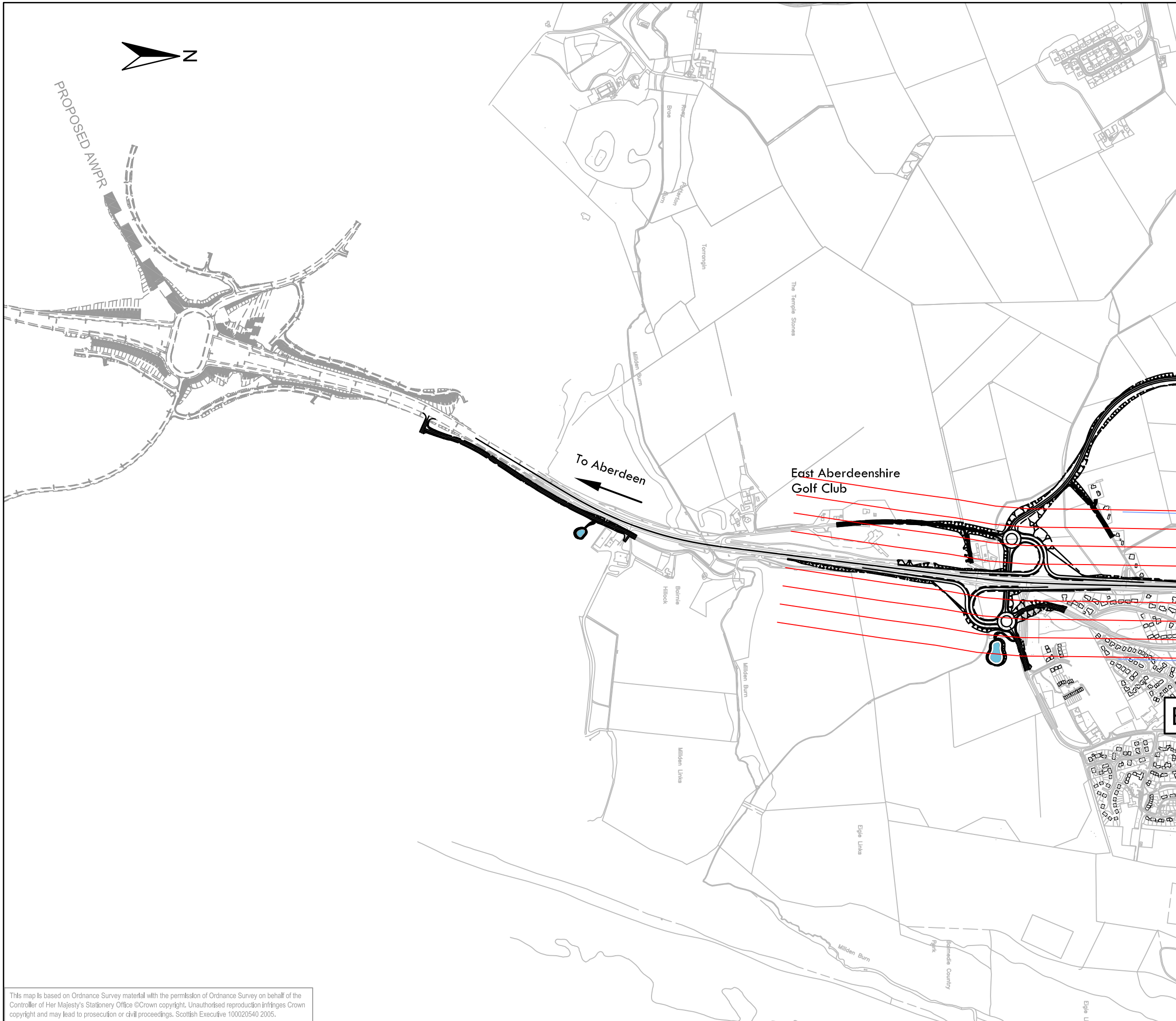


Drawn by: GH | Checked by: JG | Date: 08/07

A90 Dualling - Balmedie to Tipperty
Residential Properties considered
in the Air Quality Assessment

Figure 15.1
 Scale 1 : 20 000 at A3

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- Key:**
- Proposed Aberdeen Western Peripheral Route (AWPR)
 - Proposed Route (A90(T))
 - 200m line from existing A90
 - Contours lines at 50m, 100m, 150m and 200m for the A90(T) centreline.

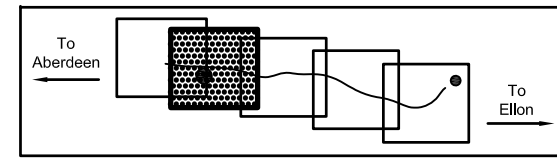
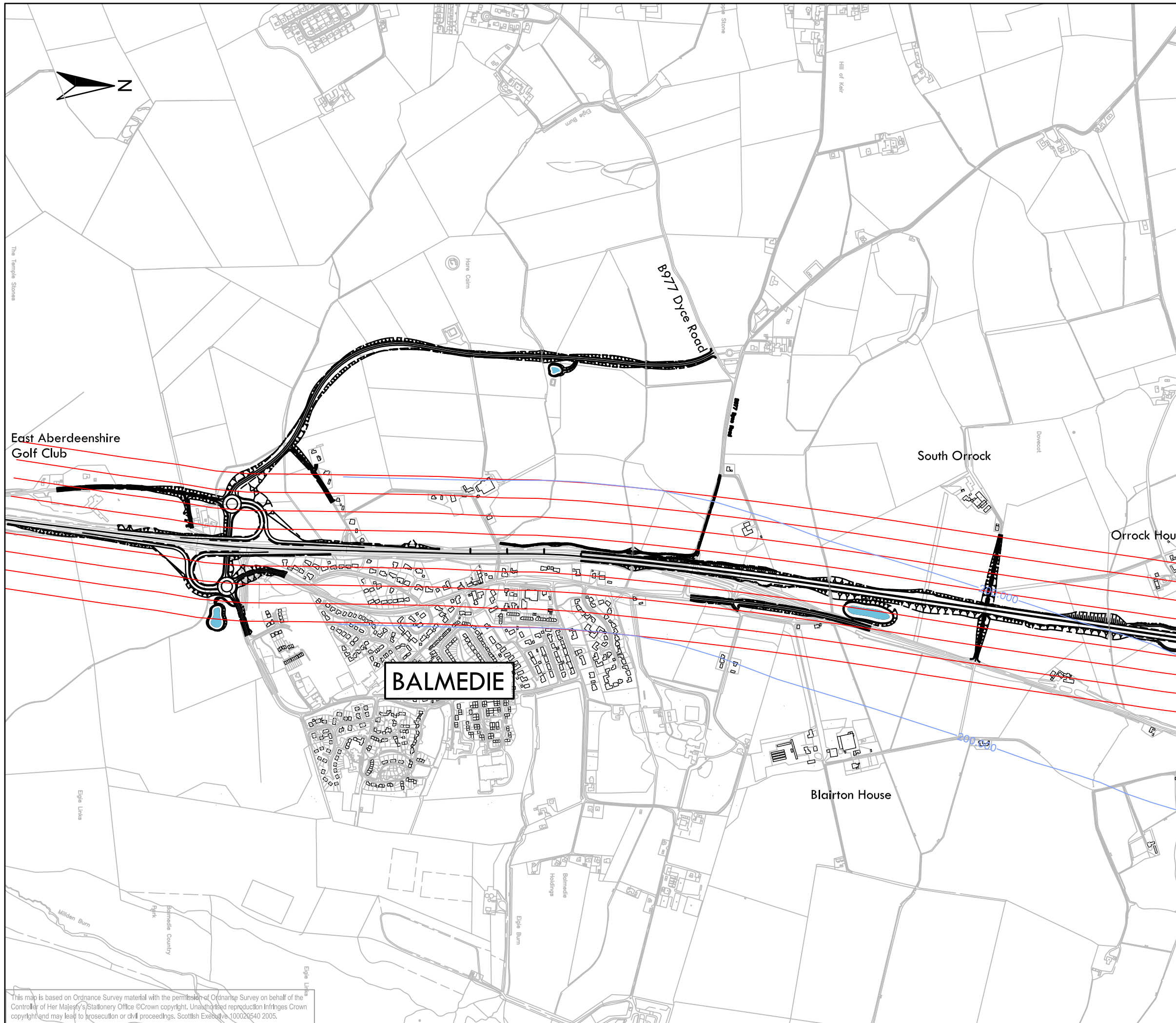


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A90 Dualling - Balmedie to Tippetry
Constraints Map Showing Properties Within 200m of the Road Centreline

Figure 15.2a
 Scale 1:10,000 at A3

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- Key:**
- Proposed Route (A90(T))
 - 200m line from existing A90
 - Contours lines at 50m, 100m, 150m and 200m for the A90(T) centreline.



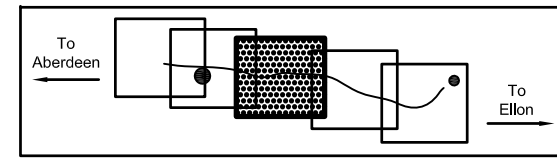
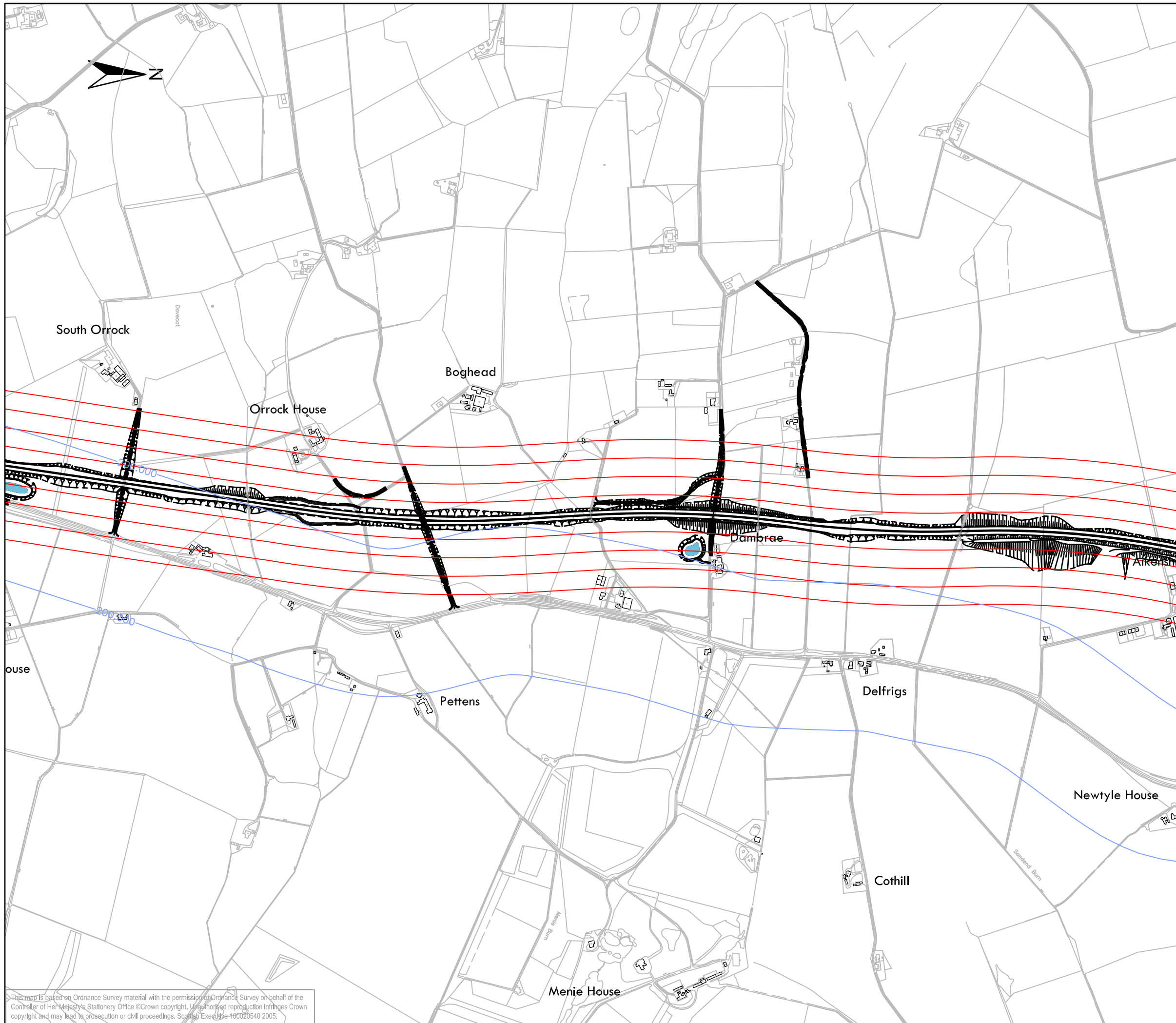
Drawn by: GH Checked by: JG Date: 08/07

A90 Dualling - Balmedie to Tippetry
Constraints Map Showing Properties
Within 200m of the Road Centreline

Figure 15.2b

Scale 1 : 10 000 at A3

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- Key:**
- Proposed Route (A90(T))
 - 200m line from existing A90
 - Contours lines at 50m, 100m, 150m and 200m for the A90(T) centreline.

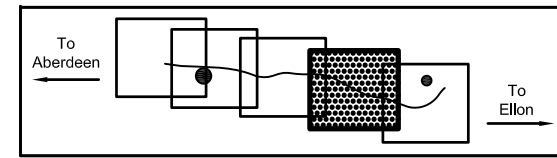
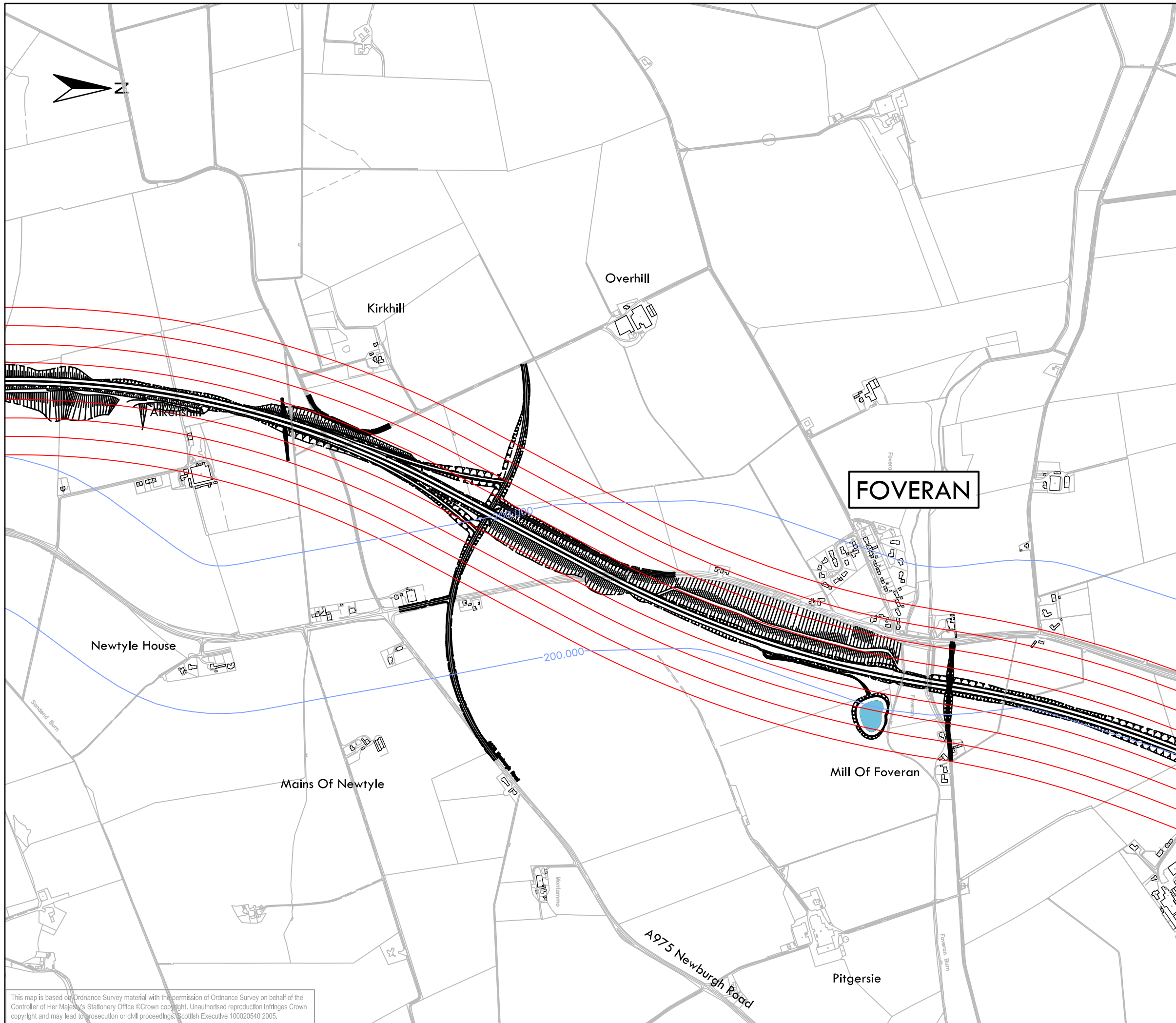


Drawn by: GH | Checked by: JG | Date: 08/07

A90 Dualling - Balmedie to Tippetry
Constraints Map Showing Properties
Within 200m of the Road Centreline

Figure 15.2c
 Scale 1 : 10 000 at A3

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- Key:**
- Proposed Route (A90(T))
 - 200m line from existing A90
 - Contours lines at 50m, 100m, 150m and 200m for the A90(T) centreline.

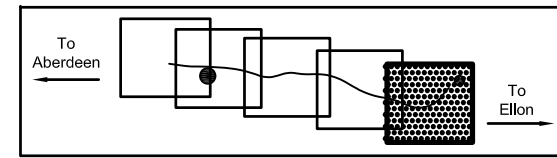
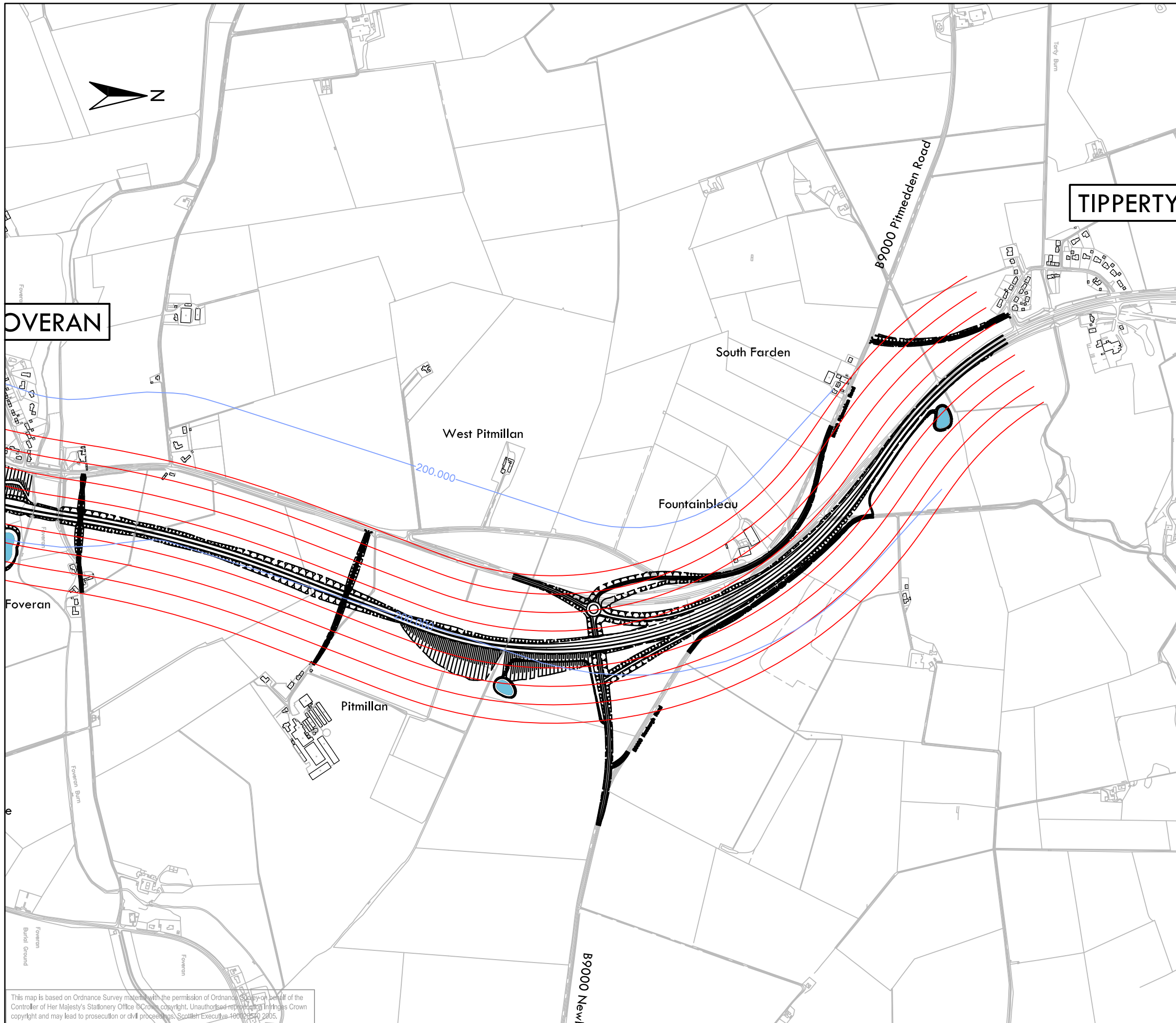


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A90 Dualling - Balmedie to Tippetry
Constraints Map Showing Properties Within 200m of the Road Centreline

Figure 15.2d
 Scale 1 : 10 000 at A3

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- Key:**
- Proposed Route (A90(T))
 - 200m line from existing A90
 - Contours lines at 50m, 100m, 150m and 200m for the A90(T) centreline.



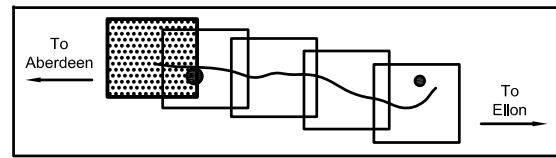
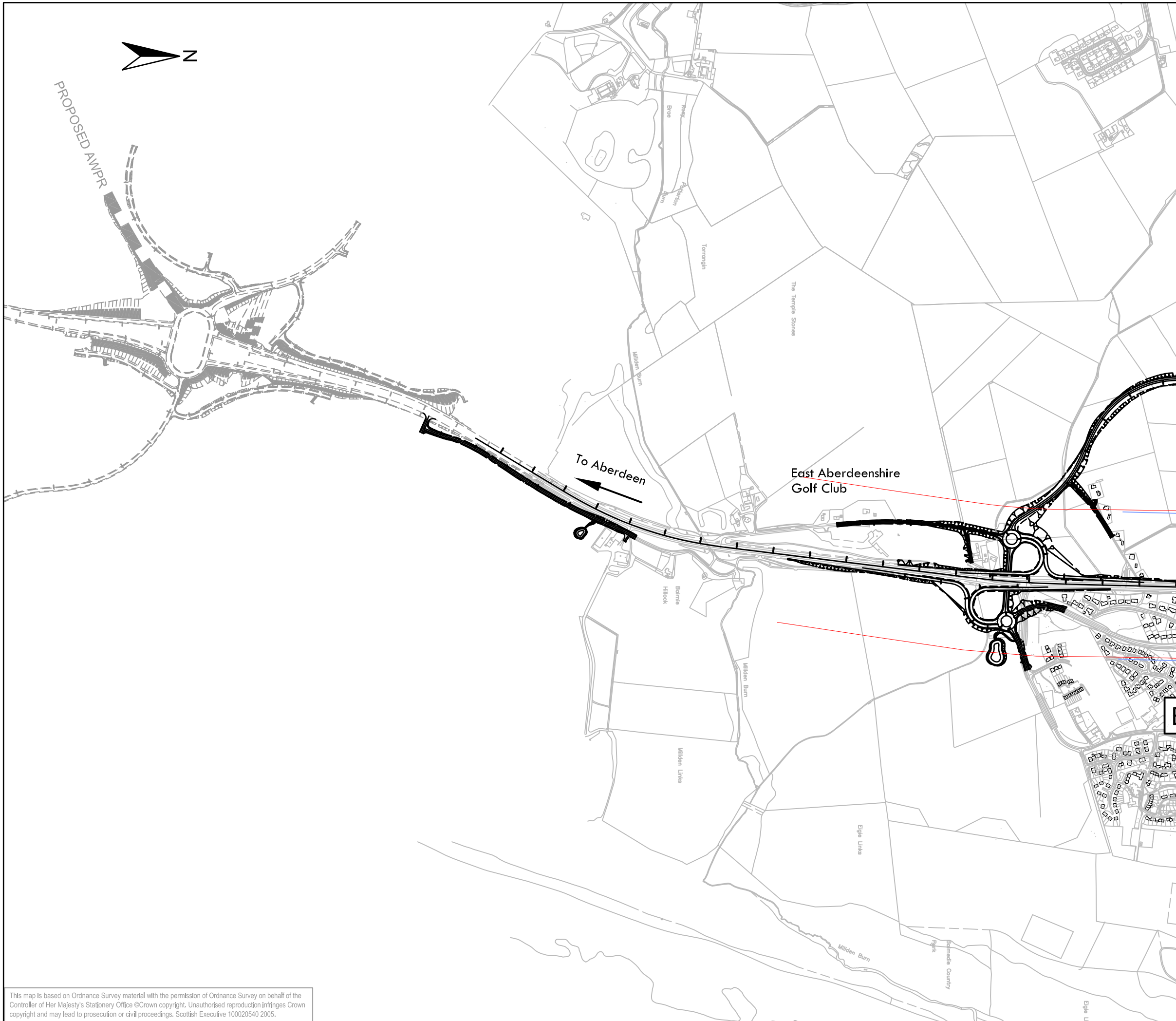
Drawn by: GH Checked by: JG Date: 08/07

A90 Dualling - Balmedie to Tippetty
Constraints Map Showing Properties Within 200m of the Road Centreline

Figure 15.2e

Scale 1 : 10 000 at A3

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Key:

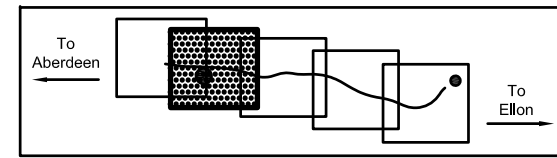
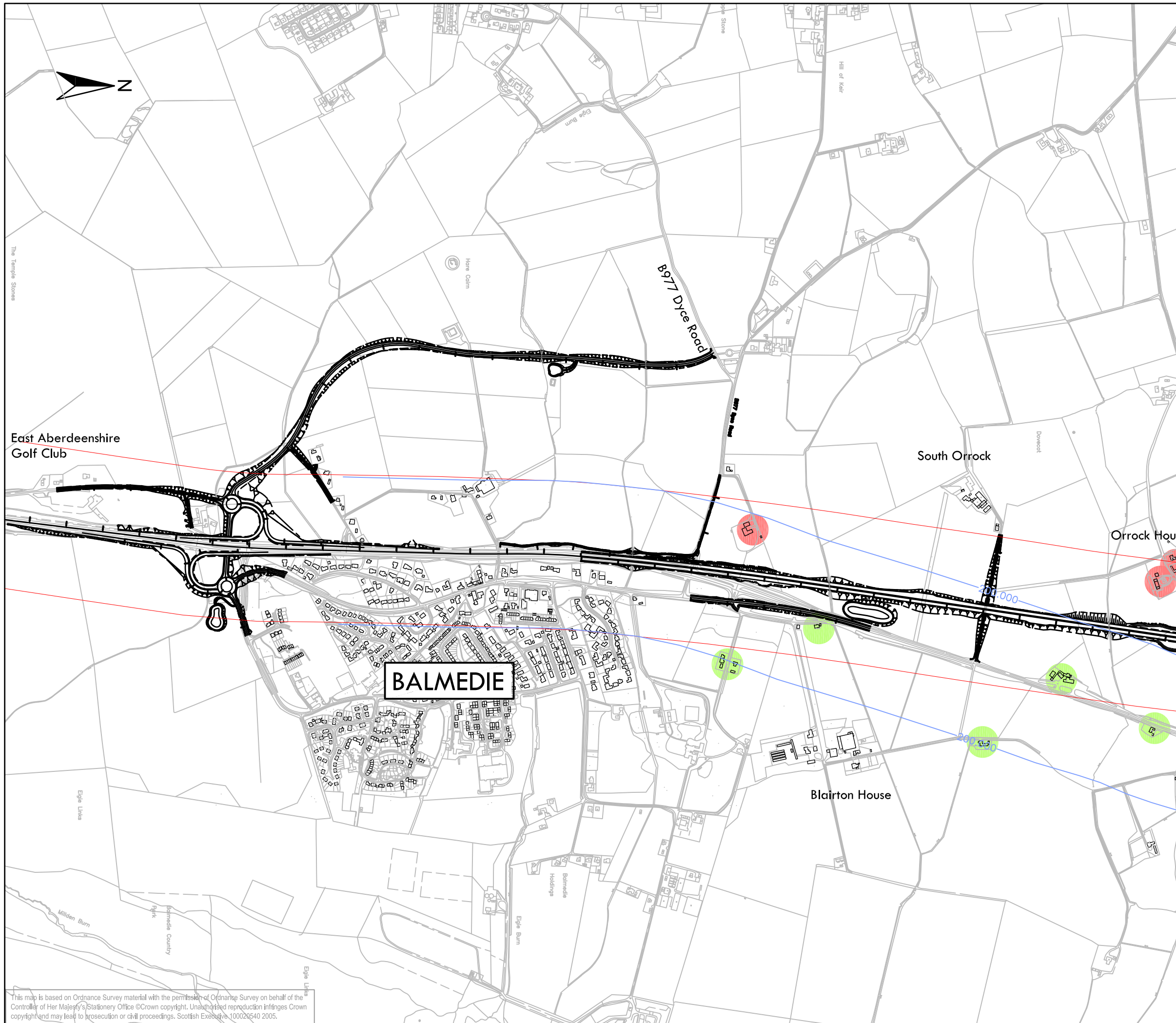
- Proposed Aberdeen Western Peripheral Route (AWPR)
- Properties most likely to experience an improvement in Air Quality
- Properties most likely to experience a deterioration in Air Quality
- Proposed Route (A90(T))
- 200m line from A90(T)
- 200m line from existing A90



Drawn by: GH Checked by: JG Date: 08/07

A90 Dualling - Balmedie to Tipperty
Properties most likely to Experience an Improvement or Deterioration in Air Quality as a Result of the Scheme
 Figure 15.3a
 Scale 1:10,000 at A3

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- Key:**
- Properties most likely to experience an improvement in Air Quality
 - Properties most likely to experience a deterioration in Air Quality
 - Proposed Route (A90(T))
 - 200m line from A90(T)
 - 200m line from existing A90

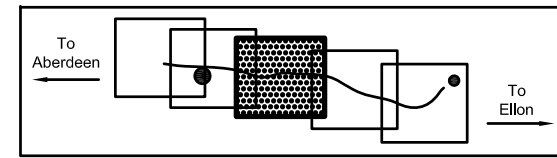


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A90 Dualling - Balmedie to Tipperty
Properties most likely to Experience an Improvement or Deterioration in Air Quality as a Result of the Scheme
 Figure 15.3b

Scale 1 : 10 000 at A3

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- Key:
- Properties most likely to experience an improvement in Air Quality
 - Properties most likely to experience a deterioration in Air Quality
 - Proposed Route (A90(T))
 - 200m line from A90(T)
 - 200m line from existing A90

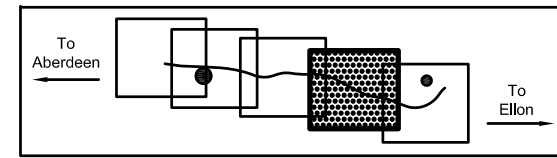
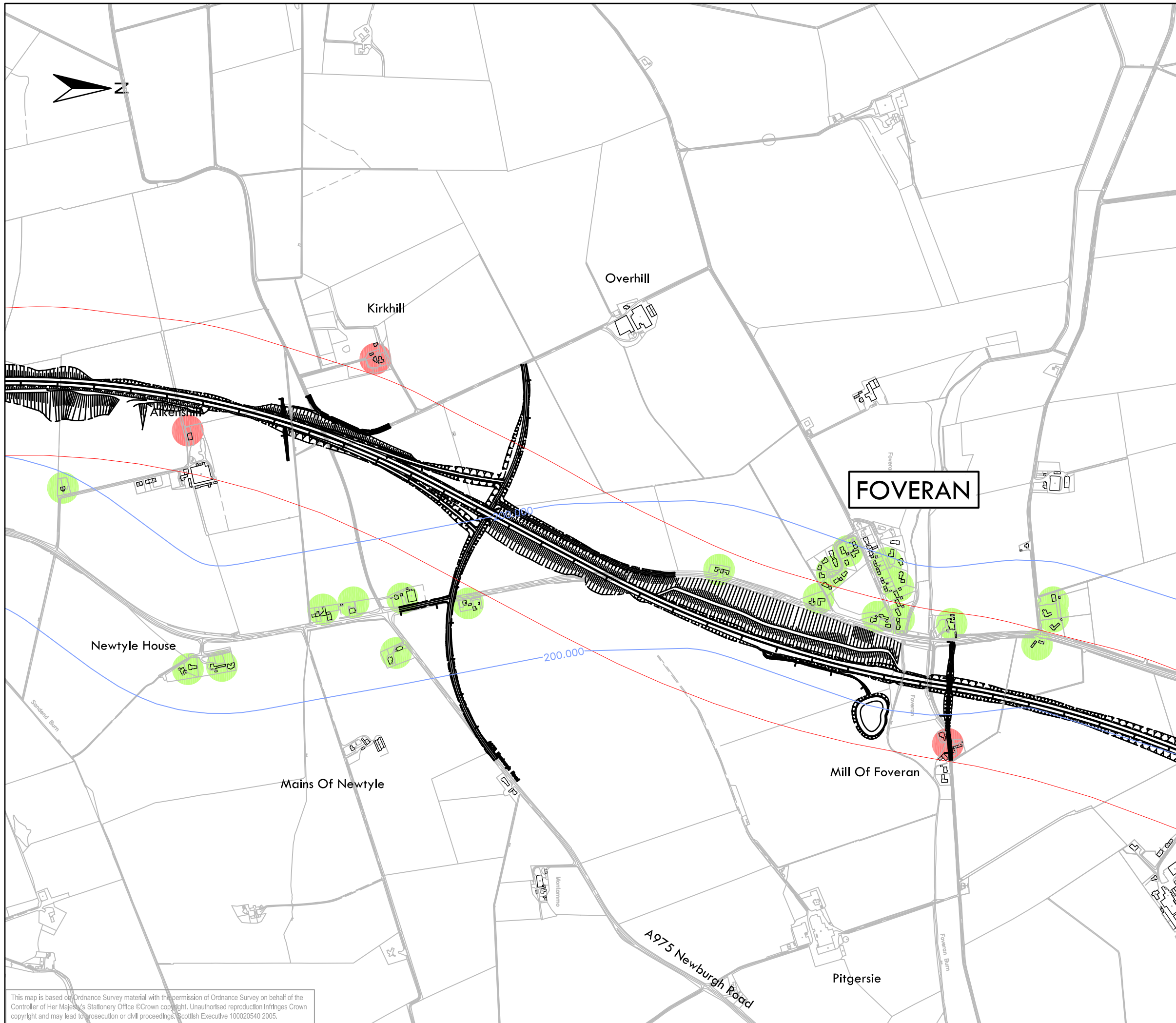


Drawn by: GH | Checked by: JG | Date: 08/07

A90 Dualling - Balmedie to Tippetry
Properties most likely to Experience an Improvement or Deterioration in Air Quality as a Result of the Scheme
 Figure 15.3c

Scale 1 : 10 000 at A3

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- Key:
- Properties most likely to experience an improvement in Air Quality
 - Properties most likely to experience a deterioration in Air Quality
 - Proposed Route (A90(T))
 - 200m line from A90(T)
 - 200m line from existing A90

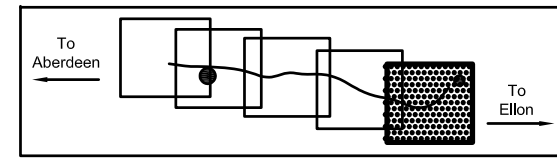
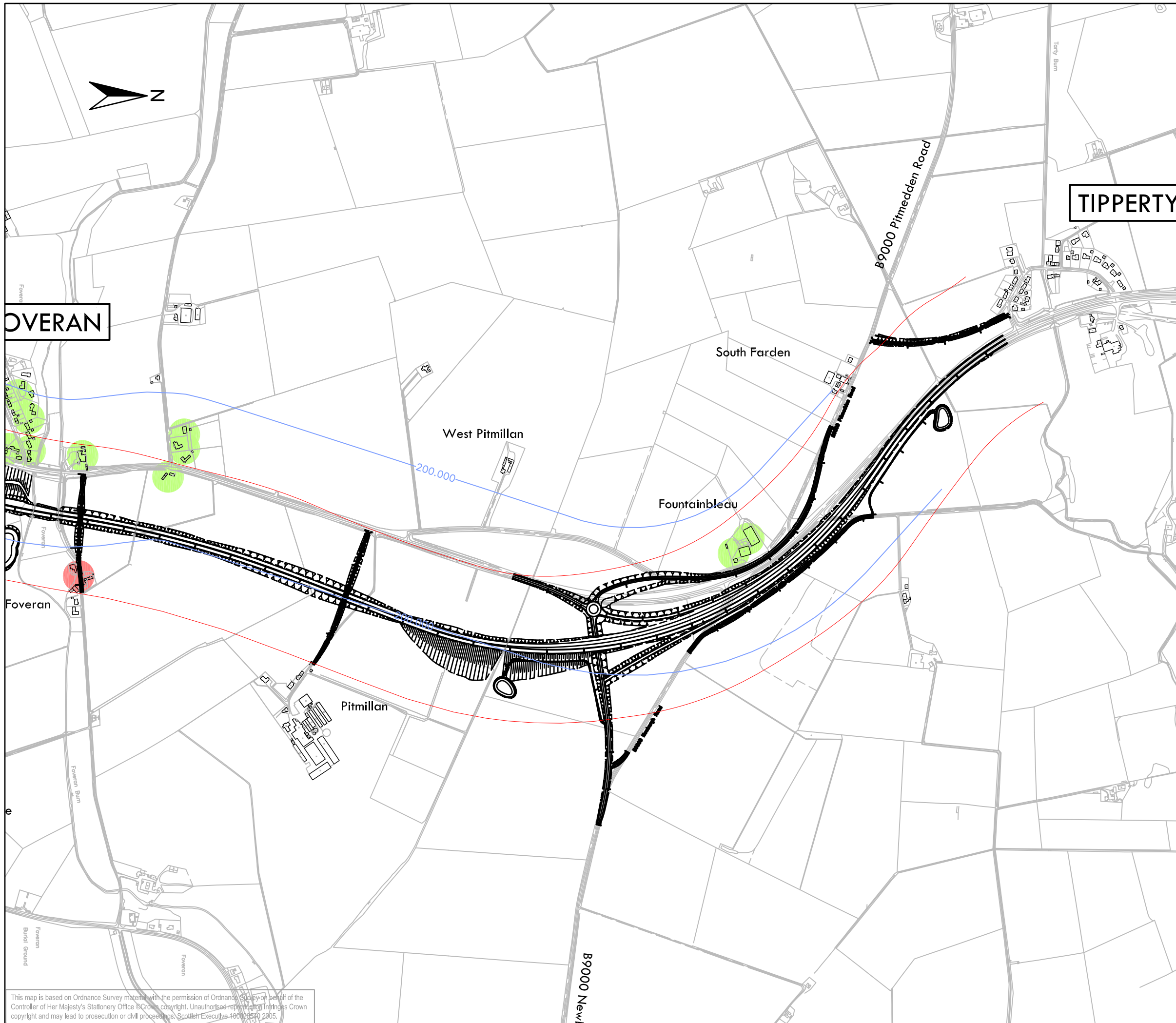


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A90 Dualling - Balmedie to Tipperty
Properties most likely to Experience an Improvement or Deterioration in Air Quality as a Result of the Scheme
 Figure 15.3d

Scale 1 : 10 000 at A3

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- Key:**
- Properties most likely to experience an improvement in Air Quality
 - Properties most likely to experience a deterioration in Air Quality
 - Proposed Route (A90(T))
 - 200m line from A90(T)
 - 200m line from existing A90



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A90 Dualling - Balmedie to Tippetty
Properties most likely to Experience an Improvement or Deterioration in Air Quality as a Result of the Scheme
 Figure 15.3e

Scale 1 : 10 000 at A3

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