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### 5188790 - A40 Phase 3 Business Case

#### Absolute Noise Levels:

#### Do Min Opening Year (Day)

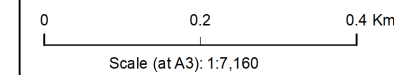
Noise Important Areas

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80

OS Mastermap



Data sources: Defra, Natural England, Ordnance  
Survey, ONS Geography

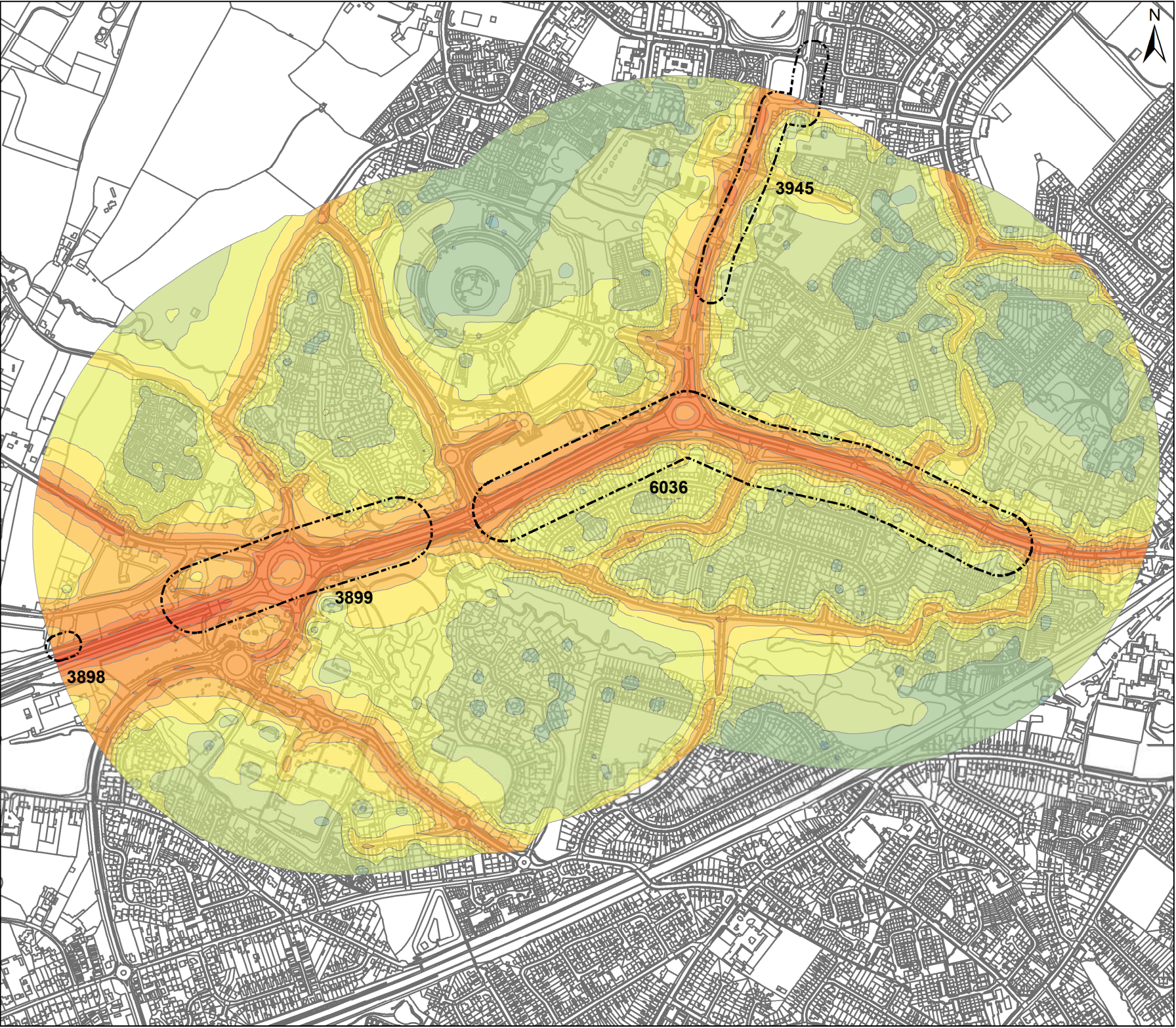


Status: S1	Purpose of Issue: For Coordination	Rev: 1	Model File Identifier: N/A
Reference: 5188790-ANV-DMOY-DAY-ABS	Drawn: DTB 13/03/2020	Checked: CH 13/03/2020	Authorised: PM

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**Figure 1: Absolute Noise Levels Daytime ( $L_{A10, 18h}$ ), Do Minimum Opening Year (2021)**






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






**5188790 - A40 Phase 3  
Business Case**


**Absolute Noise Levels:**

**Do Something Opening Year  
(Day)**

 Noise Important Areas

**dB**

-  25 - 30
-  30 - 35
-  35 - 40
-  40 - 45
-  45 - 50
-  50 - 55
-  55 - 60
-  60 - 65
-  65 - 70
-  70 - 75
-  75 - 80
-  80 - 85

 OS Mastermap



Data sources: Defra, Natural England, Ordnance Survey, ONS Geography

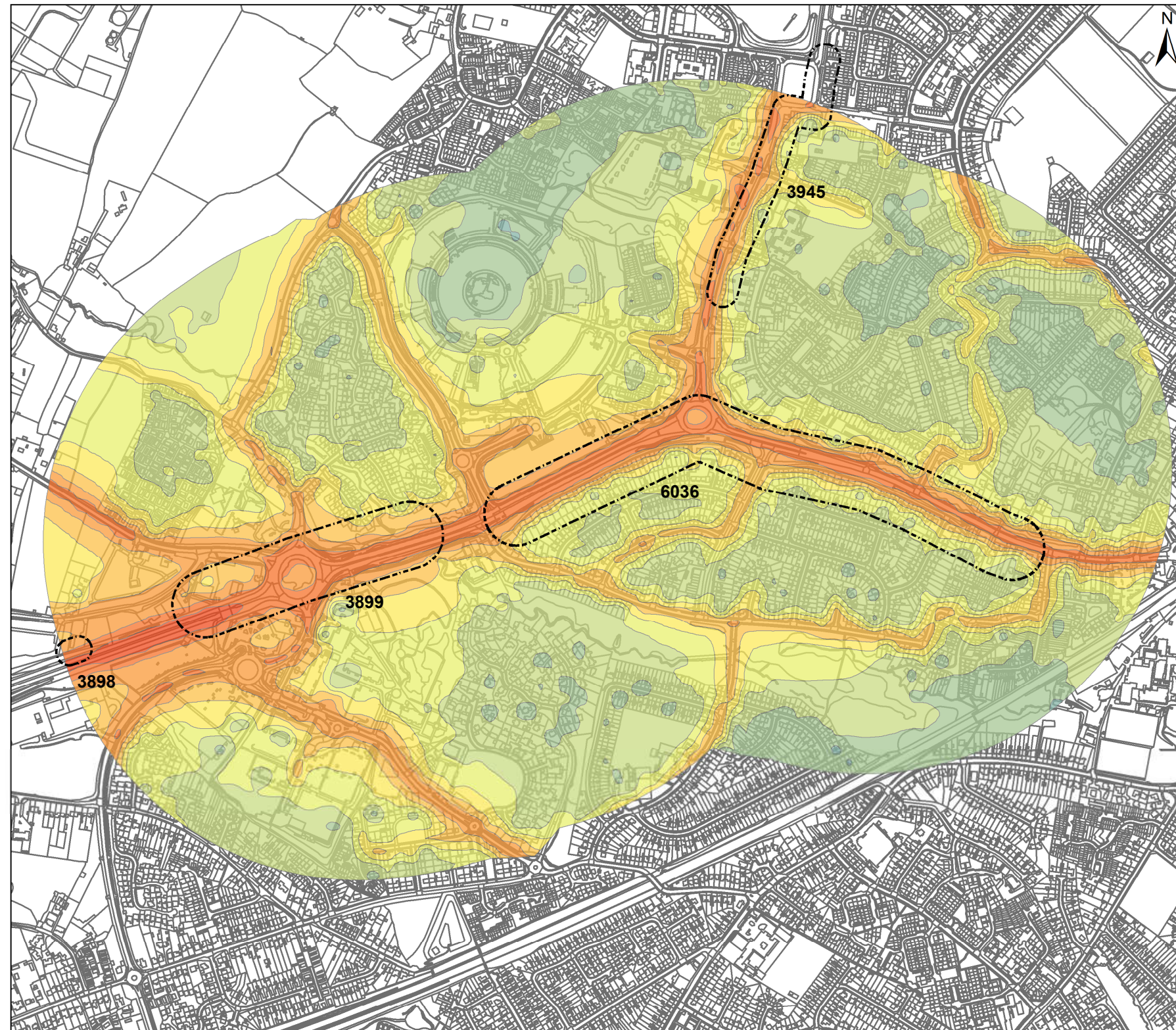
0 0.2 0.4 Km  
Scale (at A3): 1:7,160

Status: S1	Purpose of issue: For Coordination	Rev: 1	Model File Identifier: N/A
Reference: 5188790-ANV-DSOY-DAY-ABS	Drawn: DTB 13/03/2020	Checked: CH 13/03/2020	Authorised: PM

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**Figure 2: Absolute Noise Levels Daytime ( $L_{A10, 18h}$ ), Do Something Opening Year (2021)**





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### 5188790 - A40 Phase 3 Business Case

#### Absolute Noise Levels:

#### Do Something Design Year (Day)

Noise Important Areas

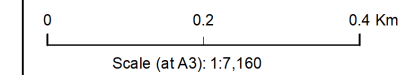
dB

- 25 - 30
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- 80 - 85

OS Mastermap



Data sources: Defra, Natural England, Ordnance Survey, ONS Geography

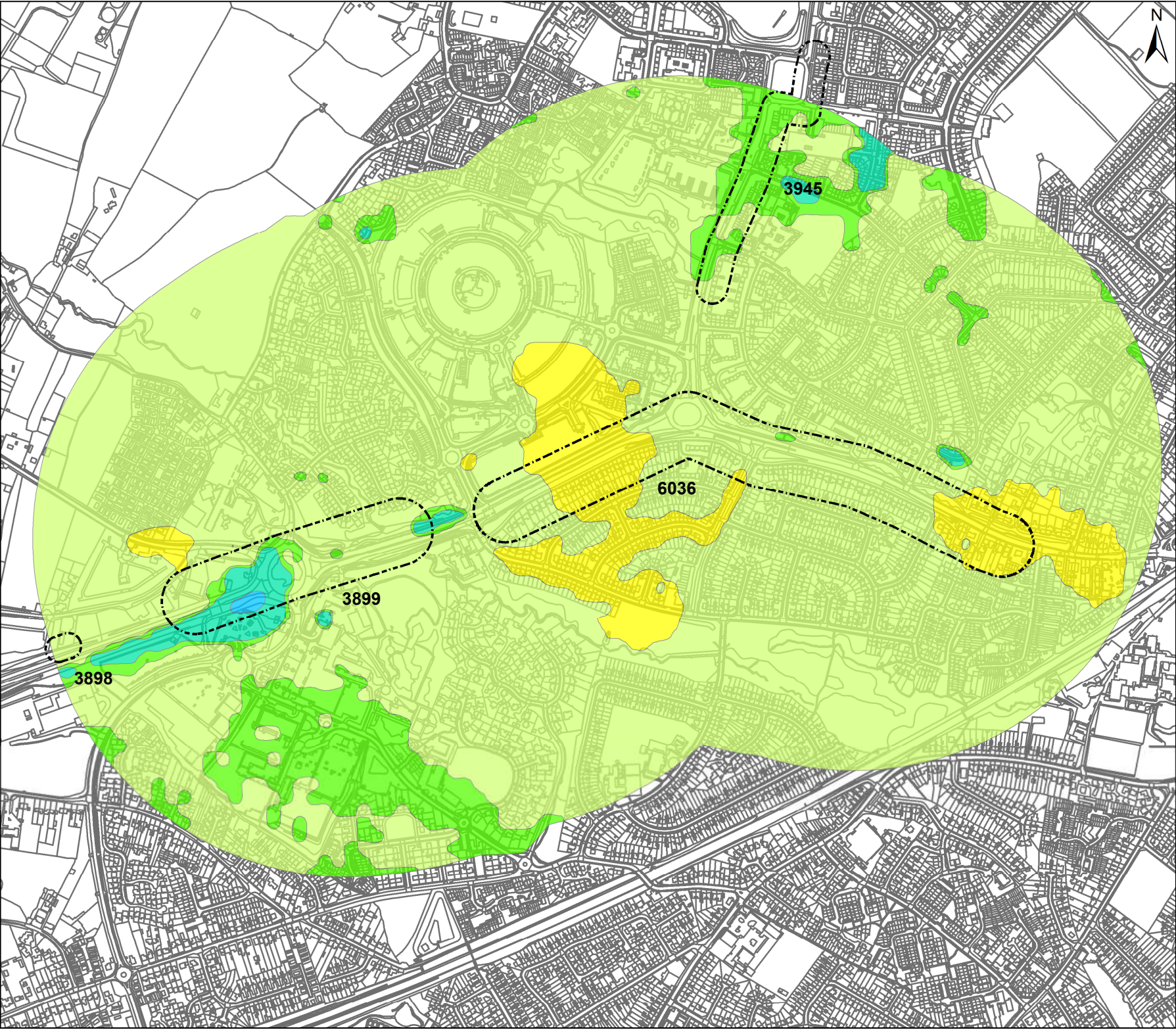
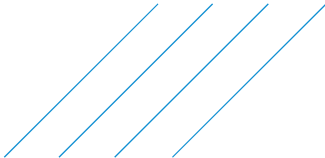


Status: S1	Purpose of issue: For Coordination	Rev: 1	Model File Identifier: N/A
Reference: 5188970-ANV-DSY-DAY-ABS	Drawn: DTB 13/03/2020	Checked: CH 13/03/2020	Authorised: PM

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**Figure 3: Absolute Noise Levels Daytime ( $L_{A10, 18h}$ ), Do Something Design Year (2031)**






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







**5188790 - A40 Phase 3 Business Case**

**Short Term Noise Change (Day)**

**Do Min Opening Year vs Do Something Opening Year**

 Noise Important Areas

**DMRB Impact**

-  Major Decrease
-  Moderate Decrease
-  Minor Decrease
-  Negligible Decrease
-  No Change
-  Negligible Increase
-  Minor Increase
-  Moderate Increase
-  Major Increase
-  OS Mastermap



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Data sources: Defra, Natural England, Ordnance Survey, ONS Geography

0 0.2 0.4 Km  
Scale (at A3): 1:7,160

Status: S1	Purpose of Issue: For Coordination	Rev: 1	Model File Identifier: N/A
Reference: 5188790-ANV-DSST-DAY-CNG	Drawn: DTB 12/03/2020	Checked: CH 13/03/2020	Authorised: PM

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Figure 4: Noise Level Change Daytime (with scheme), Short-Term ( $L_{A10, 18h}$ ) – Do Minimum Opening Year (2021) vs Do Something Opening Year (2021)





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### 5188790 - A40 Phase 3 Business Case

Long Term Noise Change (Day)

Do Min Opening Year  
vs  
Do Something Design Year

Noise Important Areas

#### DMRB Impact

- Major Decrease
- Moderate Decrease
- Minor Decrease
- Negligible Decrease
- No Change
- Negligible Increase
- Minor Increase
- Moderate Increase
- Major Increase
- OS Mastermap



Data sources: Defra, Natural England, Ordnance Survey, ONS Geography

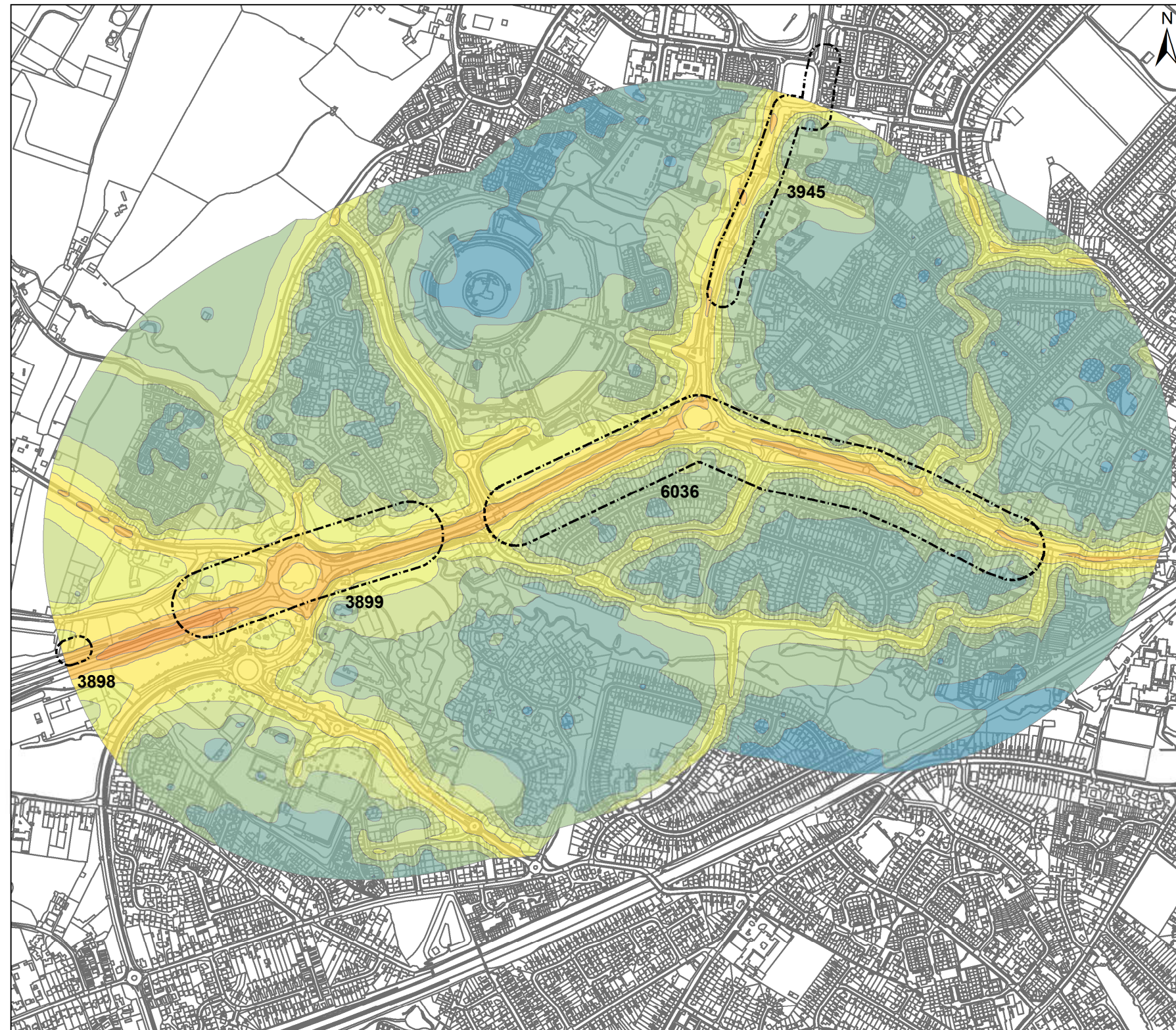
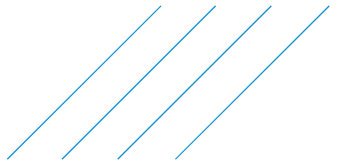
0 0.2 0.4 Km  
Scale (at A3): 1:7,160

Status: S1	Purpose of Issue: For Coordination	Rev: 1	Model File Identifier: N/A
Reference: 5188790-ANV-DSLT-DAY-CNG	Drawn: DTB 13/03/2020	Checked: CH 13/03/2020	Authorised: PM

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Figure 5: Noise Level Change Daytime (with scheme), Long-Term ( $L_{A10, 18h}$ ) – Do Minimum Opening Year (2021) vs Do Something Design Year (2031)





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### 5188790 - A40 Phase 3 Business Case

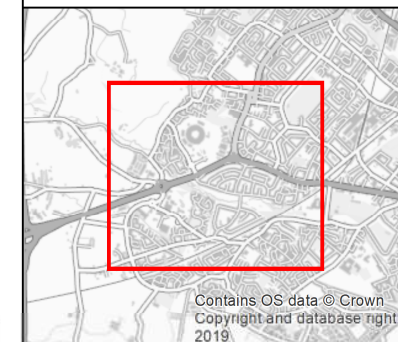
#### Absolute Noise Levels:

#### Do Min Opening Year (Night)

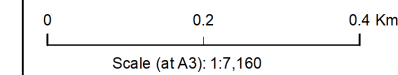
Noise Important Areas

- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70

OS Mastermap



Data sources: Defra, Natural England, Ordnance Survey, ONS Geography

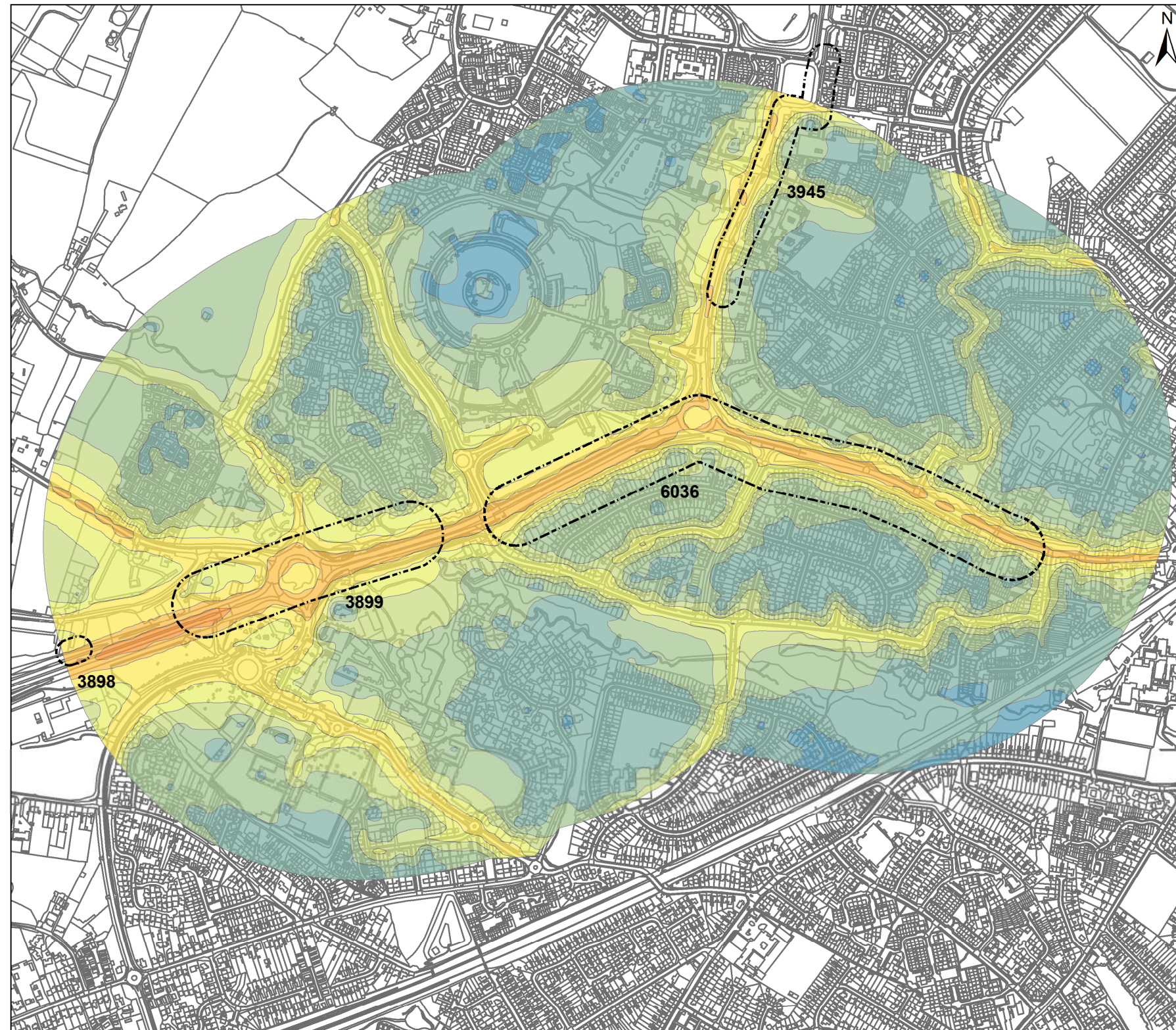


Status: S1	Purpose of issue: For Coordination	Rev: 1	Model File Identifier: N/A
Reference: 5188790-ANV-DMOY-NGT-ABS	Drawn: DTB 13/03/2020	Checked: CH 13/03/2020	Authorised: PM

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**Figure 6: Absolute Noise Levels Night-time ( $L_{A10, 18h}$ ), Do Minimum Opening Year (2021)**





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### 5188790 - A40 Phase 3 Business Case

**Absolute Noise Levels:**

**Do Something Opening Year (Night)**

**Noise Important Areas**

**dB**

- 25 - 30
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- 80 - 85

OS Mastermap

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Data sources: Defra, Natural England, Ordnance Survey, ONS Geography

0 0.2 0.4 Km

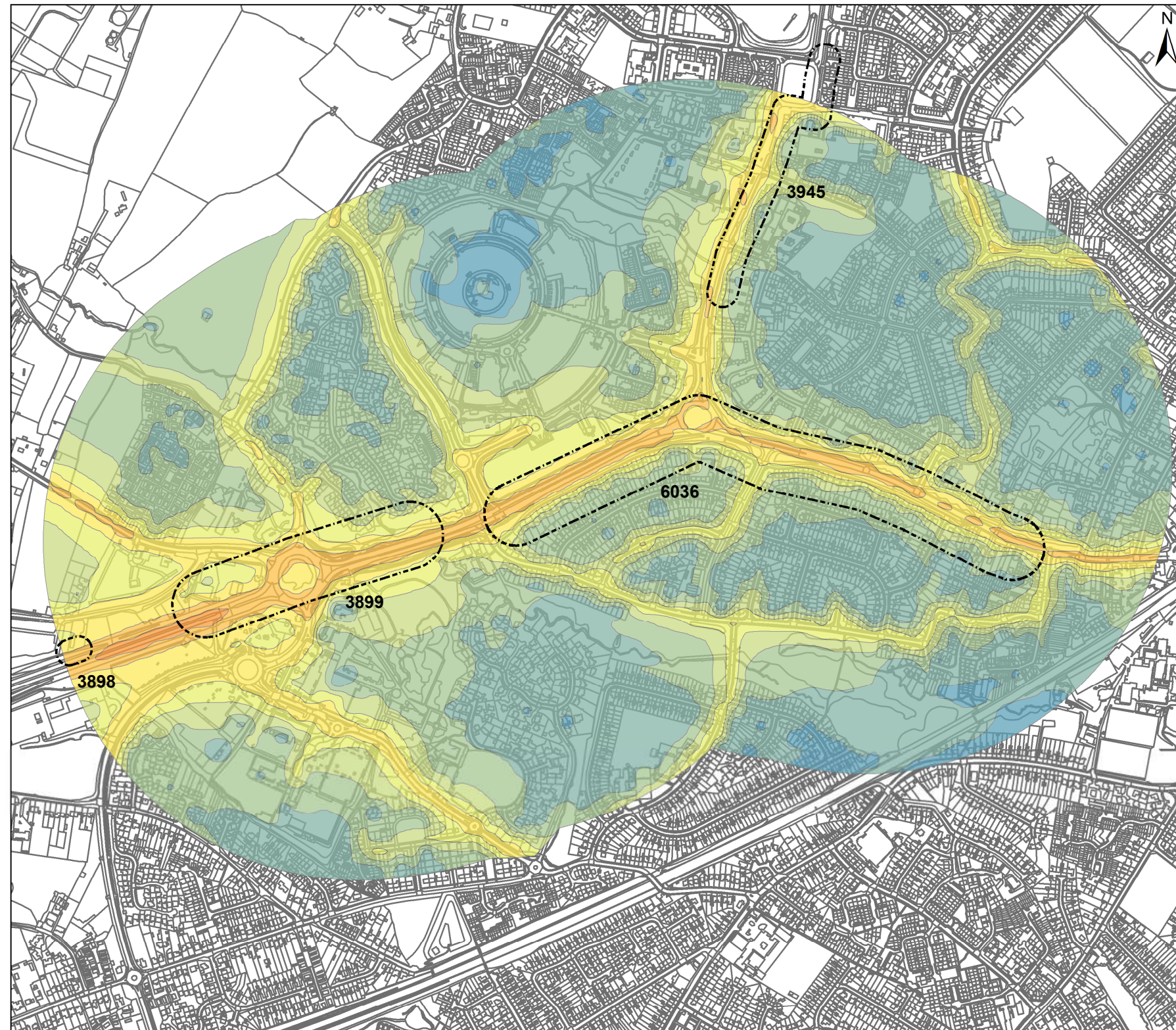
Scale (at A3): 1:7,160

Status: S1	Purpose of issue: For Coordination	Rev: 1	Model File Identifier: N/A
Reference: 5188790-ANV-DSOY-NGT-ABS	Drawn: DTB 13/03/2020	Checked: CH 13/03/2020	Authorised: PM

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**Figure 7: Absolute Noise Levels Night-time ( $L_{A10, 18h}$ ), Do Something Opening Year (2021)**





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### 5188790 - A40 Phase 3 Business Case

**Absolute Noise Levels:**  
**Do Something Design Year (Night)**

**Noise Important Areas**

**dB**

- 25 - 30
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- 80 - 85

OS Mastermap

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Data sources: Defra, Natural England, Ordnance Survey, ONS Geography

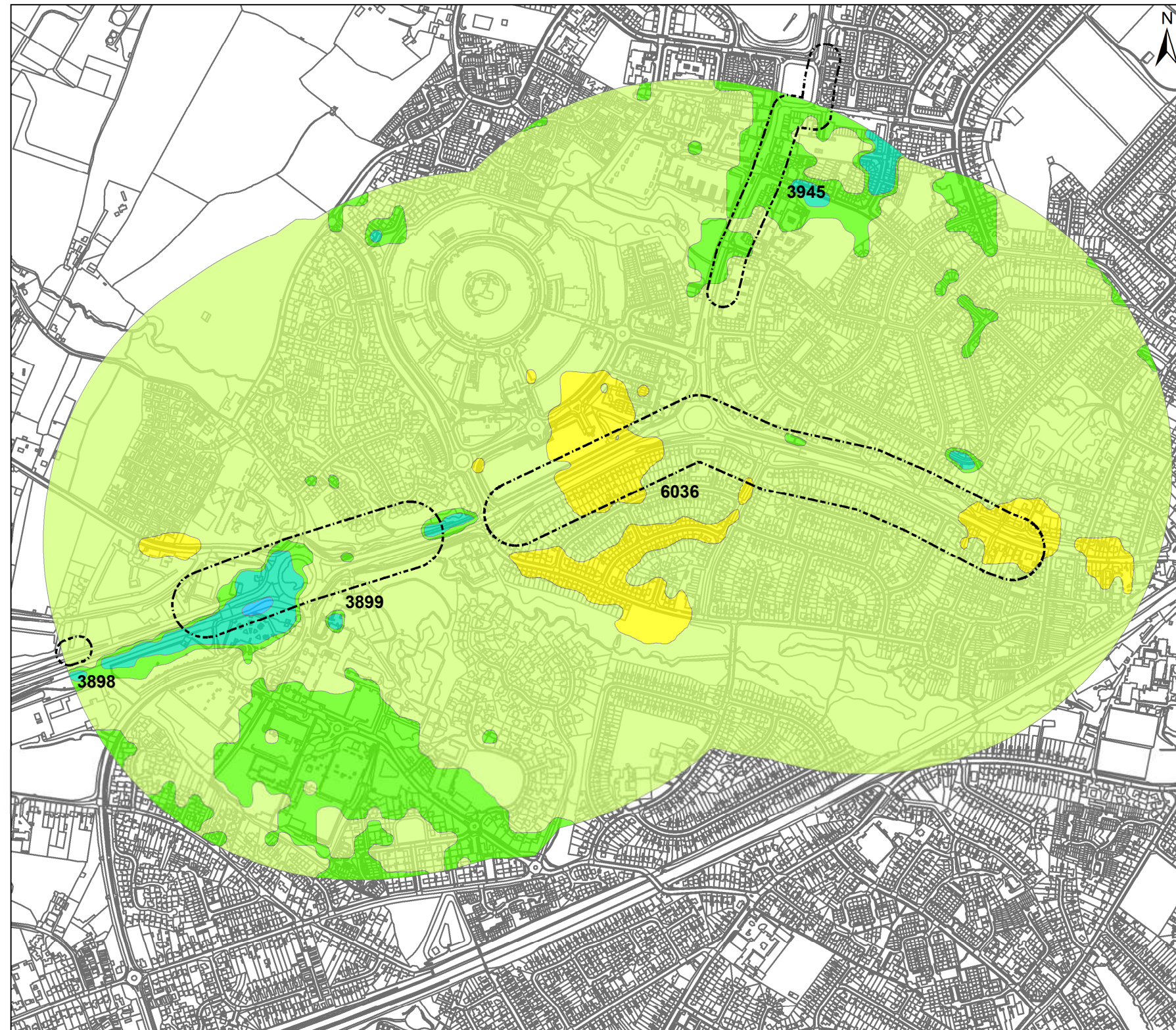
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Scale (at A3): 1:7,160

Status: S1	Purpose of issue: For Coordination	Rev: 1	Model File Identifier: N/A
Reference: 5188790-ANV-DSY-NGT-ABS	Drawn: DTB 13/03/2020	Checked: CH 13/03/2020	Authorised: PM

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**Figure 8: Absolute Noise Levels Night-time ( $L_{A10, 18h}$ ), Do Something Design Year (2031)**





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### 5188790 - A40 Phase 3 Business Case

#### Short Term Noise Change (Night)

**Do Min Opening Year  
vs  
Do Something Opening Year**

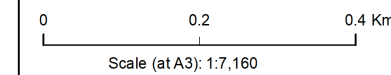
Noise Important Areas

#### DMRB Impact

- Major Decrease
- Moderate Decrease
- Minor Decrease
- Negligible Decrease
- No Change
- Negligible Increase
- Minor Increase
- Moderate Increase
- Major Increase
- OS Mastermap



Data sources: Defra, Natural England, Ordnance Survey, ONS Geography

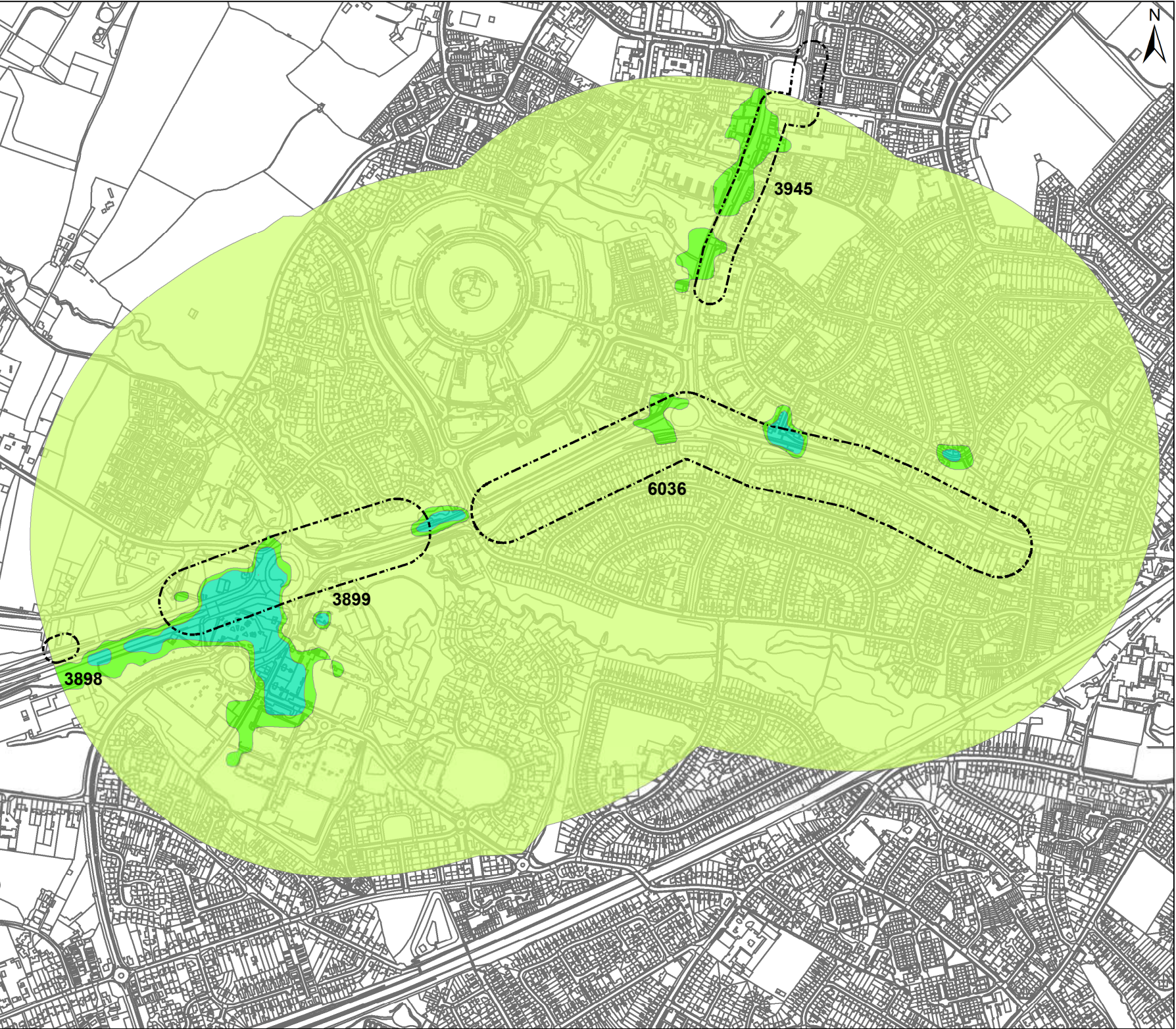
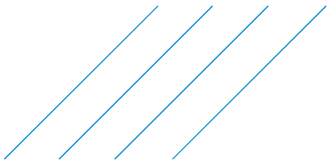


Status: S1	Purpose of Issue: For Coordination	Rev: 1	Model File Identifier: N/A
Reference: 5188790-ANV-DSST-NGT-CNG	Drawn: DTB 12/03/2020	Checked: CH 13/03/2020	Authorised: PM

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**Figure 9: Noise Level Change Night-time (with scheme), Short-Term ( $L_{A10, 18h}$ ) – Do Minimum Opening Year (2021) vs Do Something Opening Year (2021)**





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### 5188790 - A40 Phase 3 Business Case

Long Term Noise Change (Night)

Do Min Opening Year  
vs  
Do Something Design Year

Noise Important Areas

#### DMRB Impact

- Major Decrease
- Moderate Decrease
- Minor Decrease
- Negligible Decrease
- No Change
- Negligible Increase
- Minor Increase
- Moderate Increase
- Major Increase
- OS Mastermap



Data sources: Defra, Natural England, Ordnance Survey, ONS Geography

0 0.2 0.4 Km  
Scale (at A3): 1:7,160

Status: S1	Purpose of Issue: For Coordination	Rev: 1	Model File Identifier: N/A
Reference: 5188790-ANV-DSLT-NGT-CNG	Drawn: DTB 13/03/2020	Checked: CH 13/03/2020	Authorised: PM

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Figure 10: Noise Level Change Night-time (with scheme), Long-Term ( $L_{A10, 18h}$ ) – Do Minimum Opening Year (2021) vs Do Something Design Year (2031)