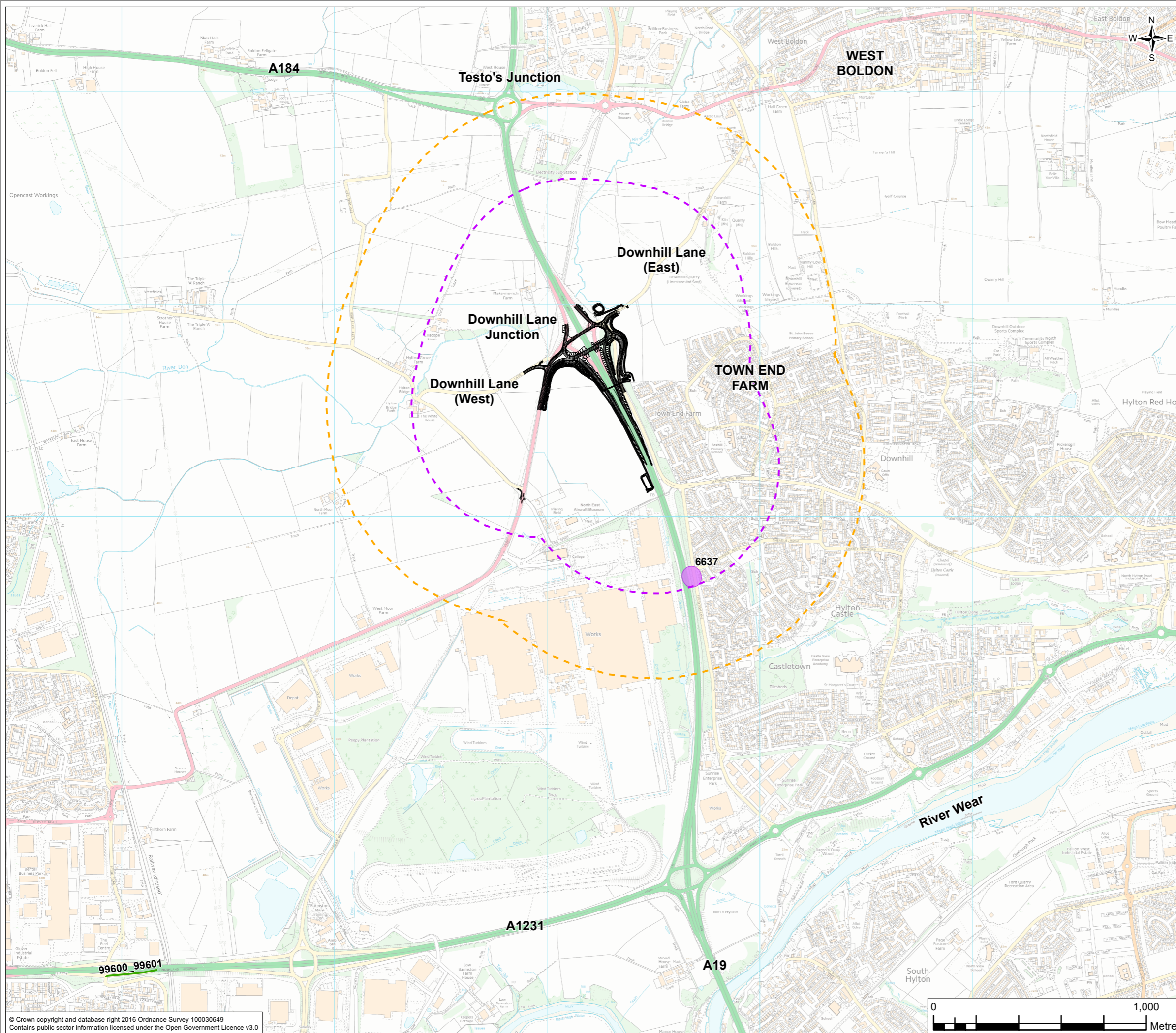


FIGURE 12.1

Legend

- Preliminary Design
- Study Area
- Calculation Area
- Beneficial Affected
- Noise Action Planning Important Areas



0	JAN 19	Application Issue	LT	SW	RM	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

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Client **highways england**

Project **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title **NOISE AND VIBRATION STUDY AND CALCULATION AREA**

Drawing Status **DCO SUBMISSION**

Scale @ A3 **1:17,500** **DO NOT SCALE**

Jacobs No. **B0140301**

Client No.

Drawing No. **B0140301_DLJ_ES_1201**

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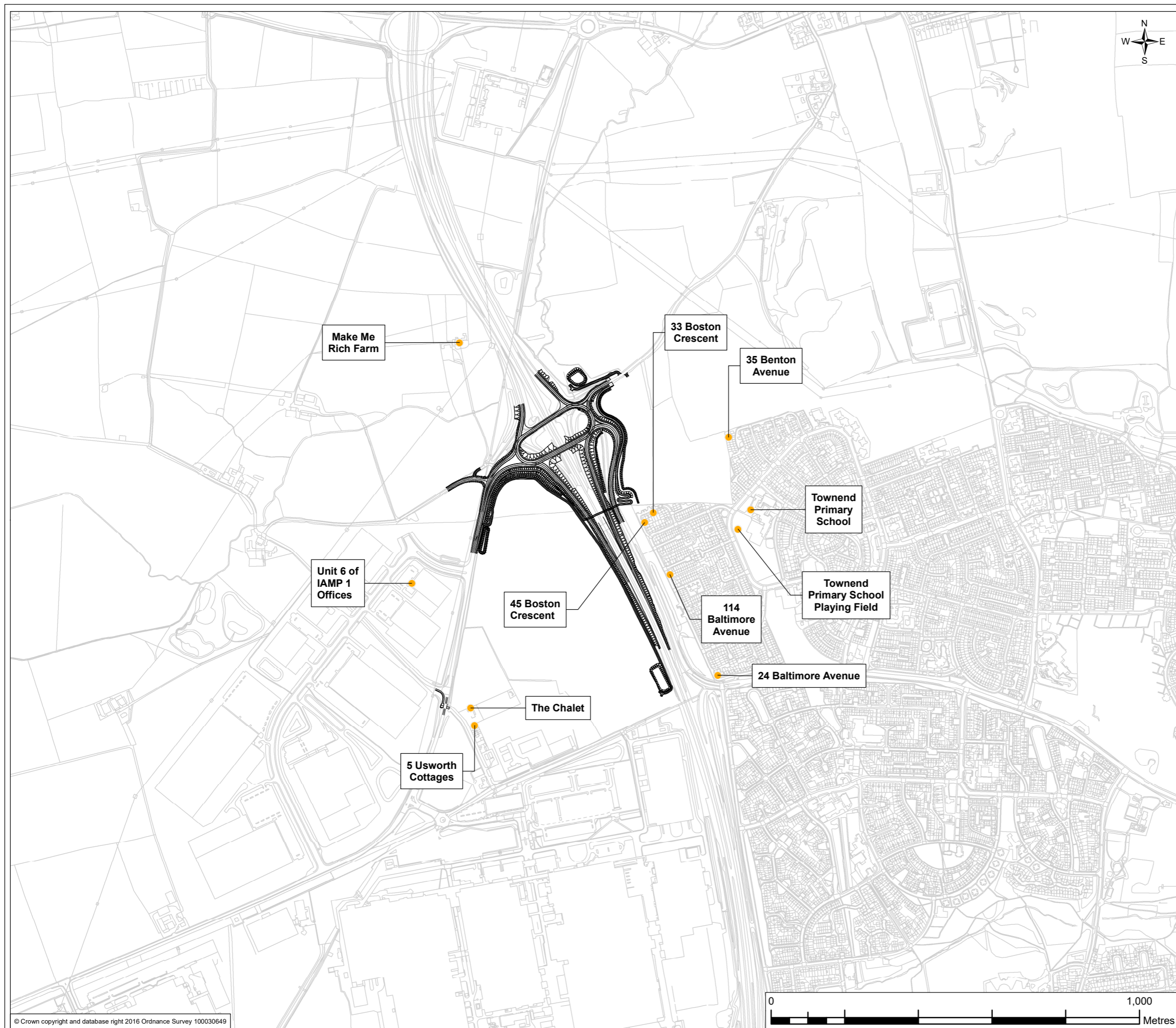
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FIGURE 12.2



Legend

- Preliminary Design
- Construction Sample Receptor



The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.

0	JAN 19	Application Issue	IM	SW	RM	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client

Project
A19 DOWNHILL LANE JUNCTION IMPROVEMENT

Drawing Title
CONSTRUCTION NOISE AND VIBRATION RECEPTORS

Drawing Status
DCO SUBMISSION

Scale @ A3
 1:10,000 DO NOT SCALE

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Drawing No. **B0140301_DLJ_ES_1202**

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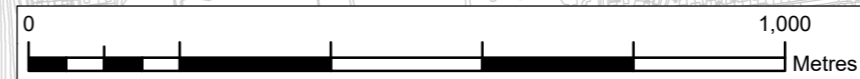
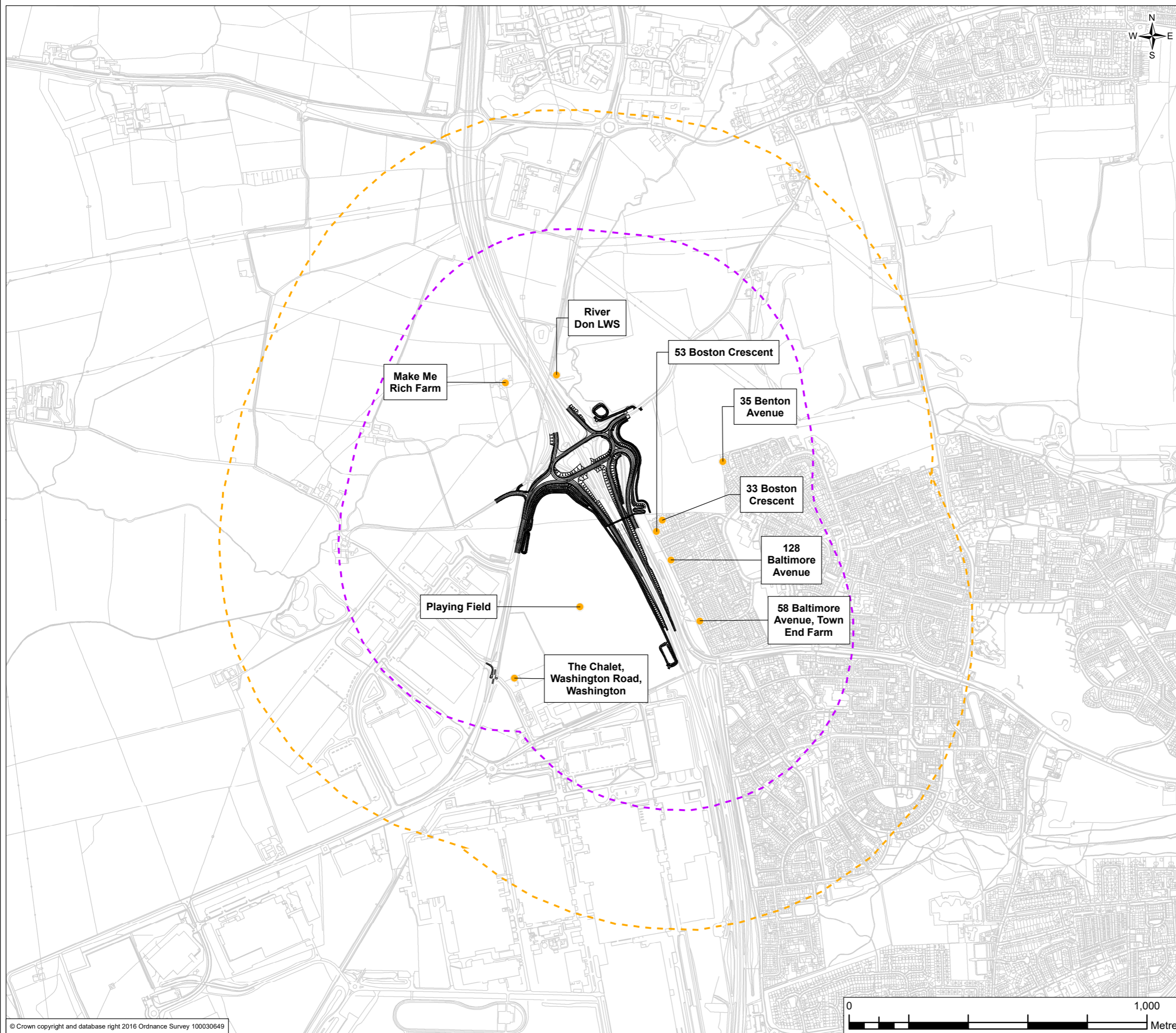


FIGURE 12.3

Legend

- Preliminary Design
- Operational Sample Receptor
- - - Study Area
- - - Calculation Area



The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.

0	JAN 19	Application Issue	LT	SW	RM	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client: **highways england**

Project: **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title: **OPERATIONAL NOISE AND VIBRATION RECEPTOR LOCATION PLAN**

Drawing Status: **DCO SUBMISSION**

Scale @ A3: **1:12,500** **DO NOT SCALE**

Jacobs No.: **B0140301**

Client No.: **B0140301_DLJ_ES_1203**

Drawing No.: **B0140301_DLJ_ES_1203**

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FIGURE 12.4

Legend

- Preliminary Design
 - - - Study Area
 - - - Calculation Area
- Noise Change, $L_{A10, 18hr}$**
- ≤ -5.0 - Major Benefit
 - 4.9 to -3.0 - Moderate Benefit
 - 2.9 to -1.0 - Minor Benefit
 - 0.9 to -0.1 - Negligible Benefit
 - 0 - No Change
 - 0.1 to 0.9 - Negligible Adverse
 - 1.0 to 2.9 - Minor Adverse
 - 3.0 to 4.9 - Moderate Adverse
 - ≥ 5.0 - Major Adverse

The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.

0	JAN 19	Application Issue	LT	SW	RM	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client **highways england**

Project **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title **NOISE CHANGE CONTOUR PLOT FOR THE SHORT TERM, 'WITH SCHEME', DO MINIMUM 2021 VS DO SOMETHING 2021 SCENARIO**

Drawing Status **DCO SUBMISSION**

Scale @ A3 **1:12,500** **DO NOT SCALE**

Jacobs No. **B0140301**

Client No.

Drawing No. **B0140301_DLJ_ES_1204**

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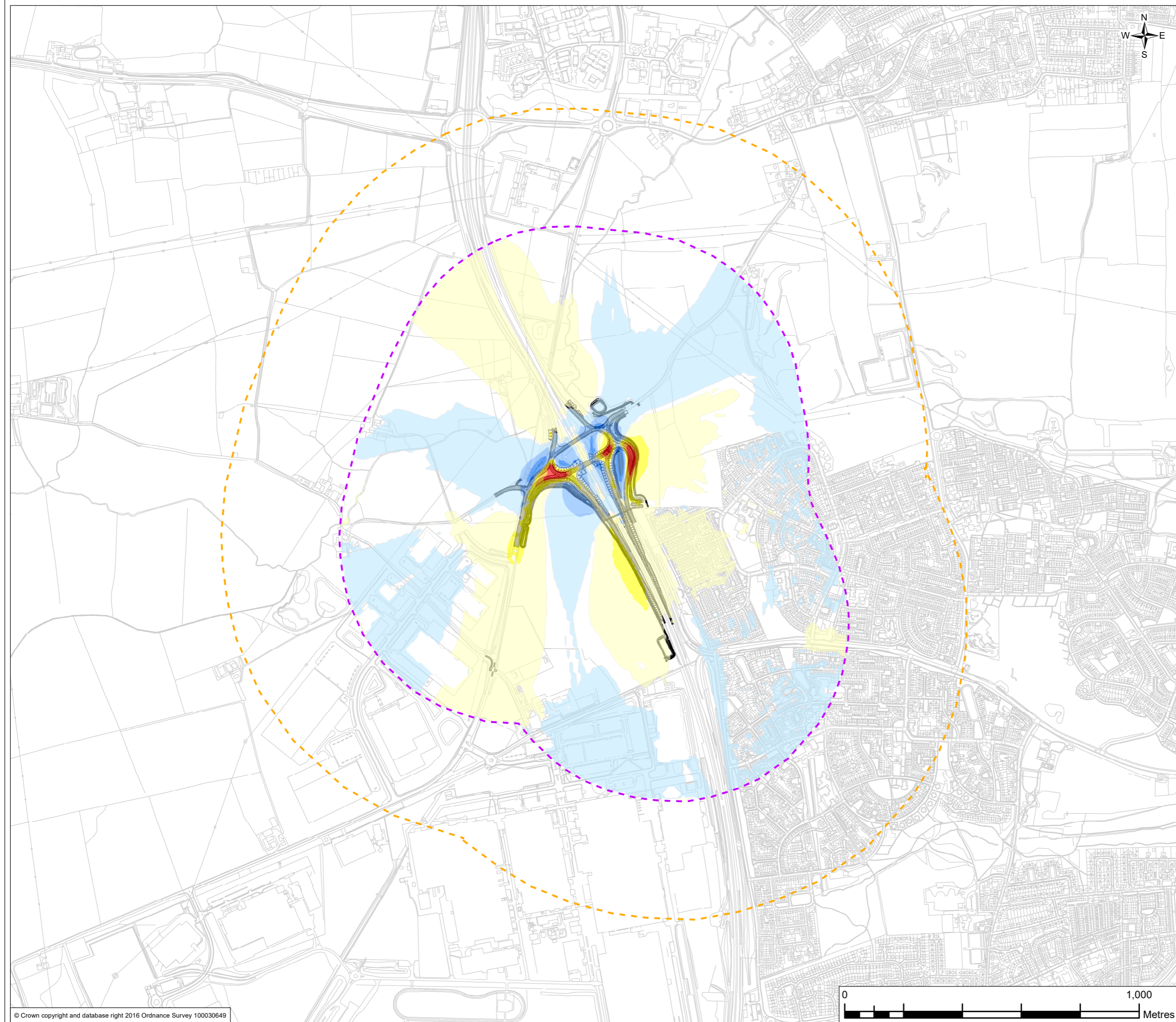


FIGURE 12.5

Legend

- Preliminary Design
 - - - Study Area
 - - - Calculation Area
- Noise Change, $L_{A10, 18hr}$**
- 2.9 to -0.1 - Negligible Benefit
 - 0 - No Change
 - 0.1 to 2.9 - Negligible Adverse
 - 3.0 to 4.9 - Minor Adverse
 - 5.0 to 9.9 - Moderate Adverse
 - ≥ 10.0 - Major Adverse

The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.

0	JAN 19	Application Issue	LT	SW	RM	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client **highways england**

Project **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title **NOISE CHANGE CONTOUR PLOT FOR THE LONG TERM, 'WITHOUT SCHEME', DO MINIMUM 2021 VS DO MINIMUM 2036 SCENARIO**

Drawing Status **DCO SUBMISSION**

Scale @ A3 **1:12,500** **DO NOT SCALE**

Jacobs No. **B0140301**

Client No.

Drawing No. **B0140301_DLJ_ES_1205**

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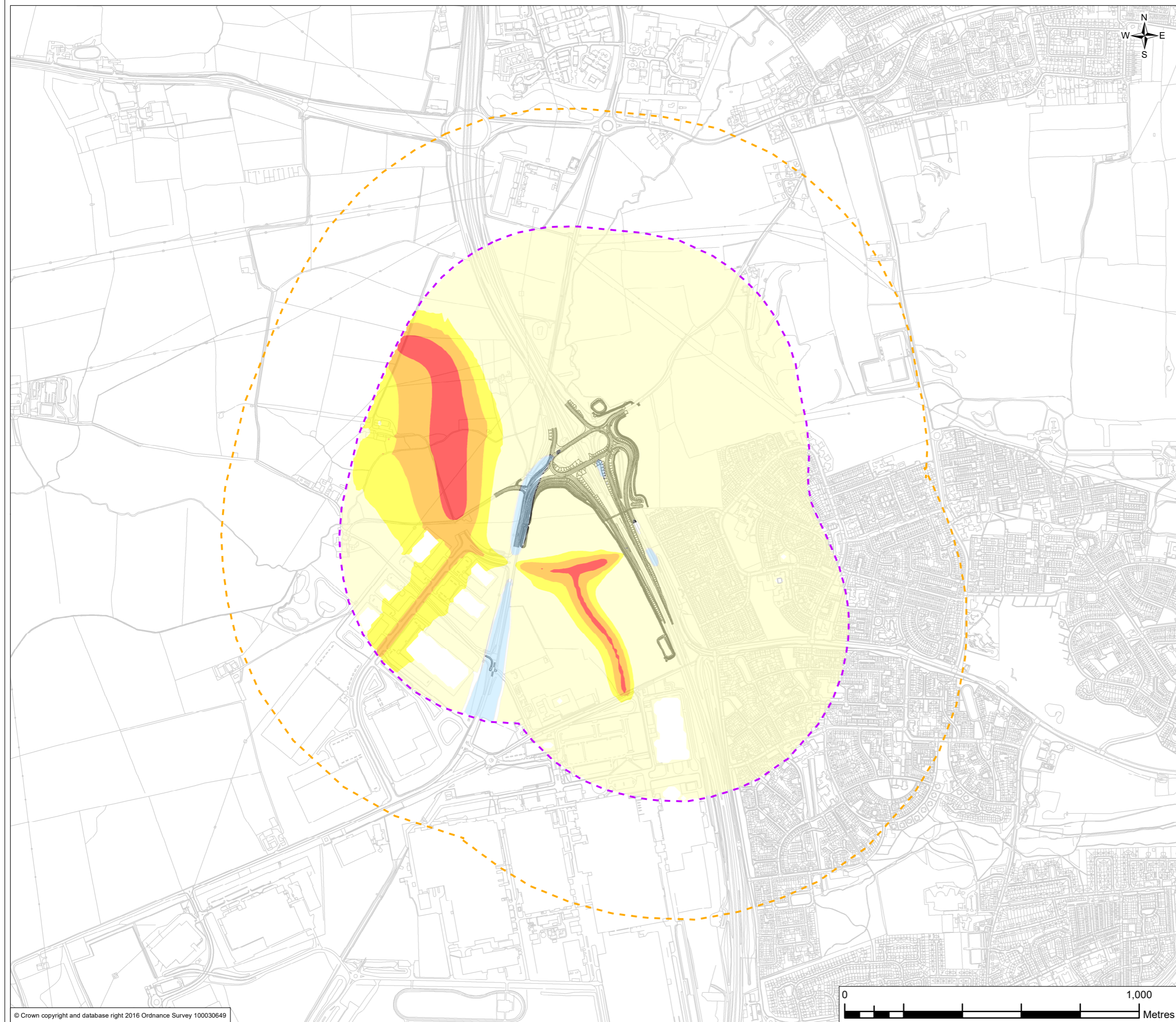


FIGURE 12.6

Legend

- Preliminary Design
- - - Study Area
- - - Calculation Area

Noise Change, $L_{A10, 18hr}$

- 9.9 to -5.0 - Moderate Benefit; -9.9 to -5.0 - Moderate Benefit
- 4.9 to -3.0 - Minor Benefit
- 2.9 to -0.1 - Negligible Benefit
- 0 - No Change
- 0.1 to 2.9 - Negligible Adverse
- 3.0 to 4.9 - Minor Adverse
- 5.0 to 9.9 - Moderate Adverse
- ≥ 10.0 - Major Adverse

The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.

0	JAN 19	Application Issue	LT	SW	RM	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client **highways england**

Project **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title **NOISE CHANGE CONTOUR PLOT FOR THE LONG TERM, 'WITH SCHEME', DO MINIMUM 2021 VS DO SOMETHING 2036 SCENARIO**

Drawing Status **DCO SUBMISSION**

Scale @ A3 **1:12,500** **DO NOT SCALE**

Jacobs No. **B0140301**

Client No.

Drawing No. **B0140301_DLJ_ES_1206**

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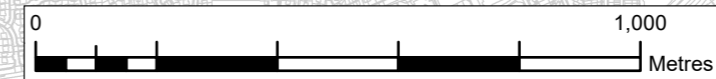
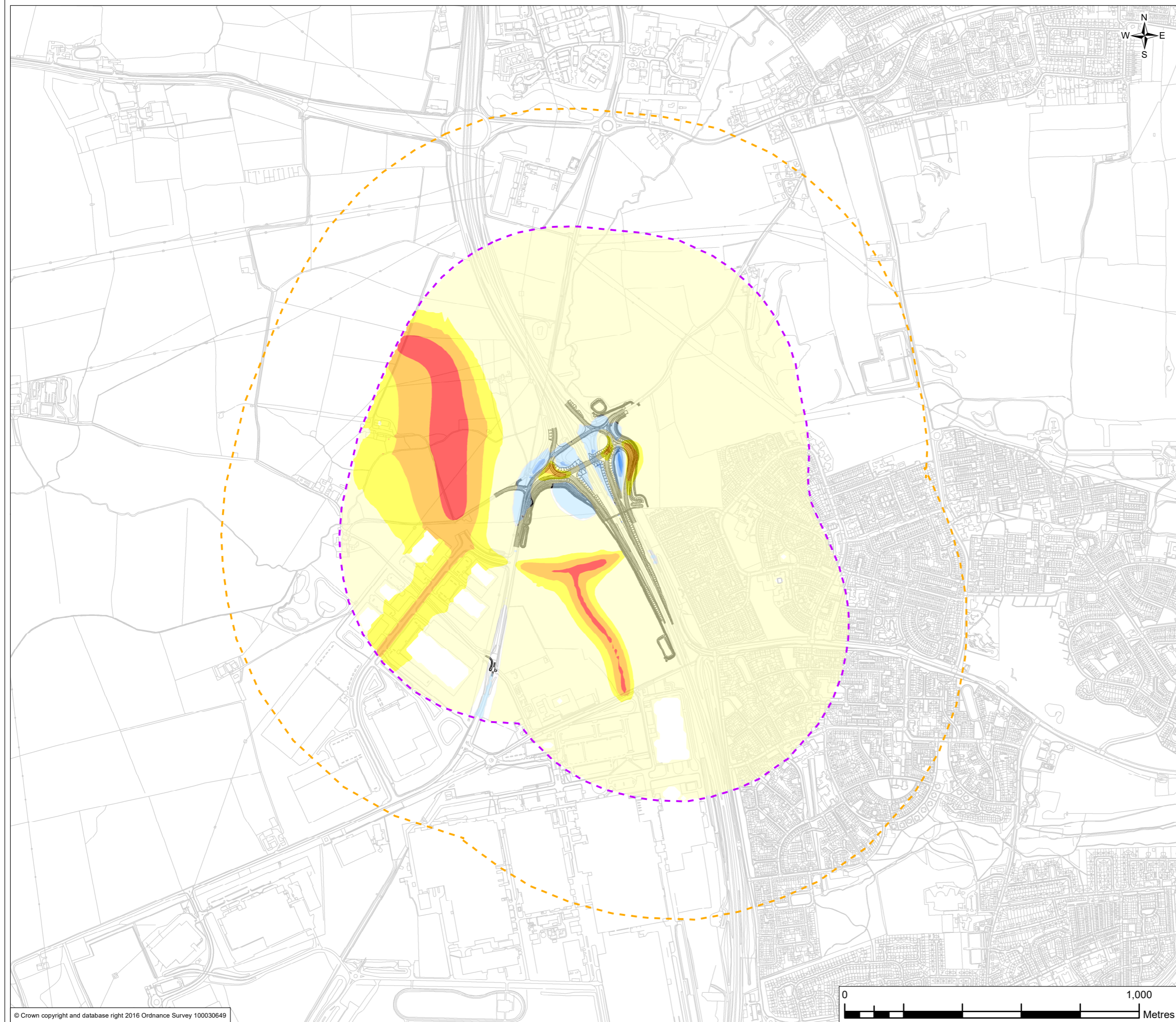
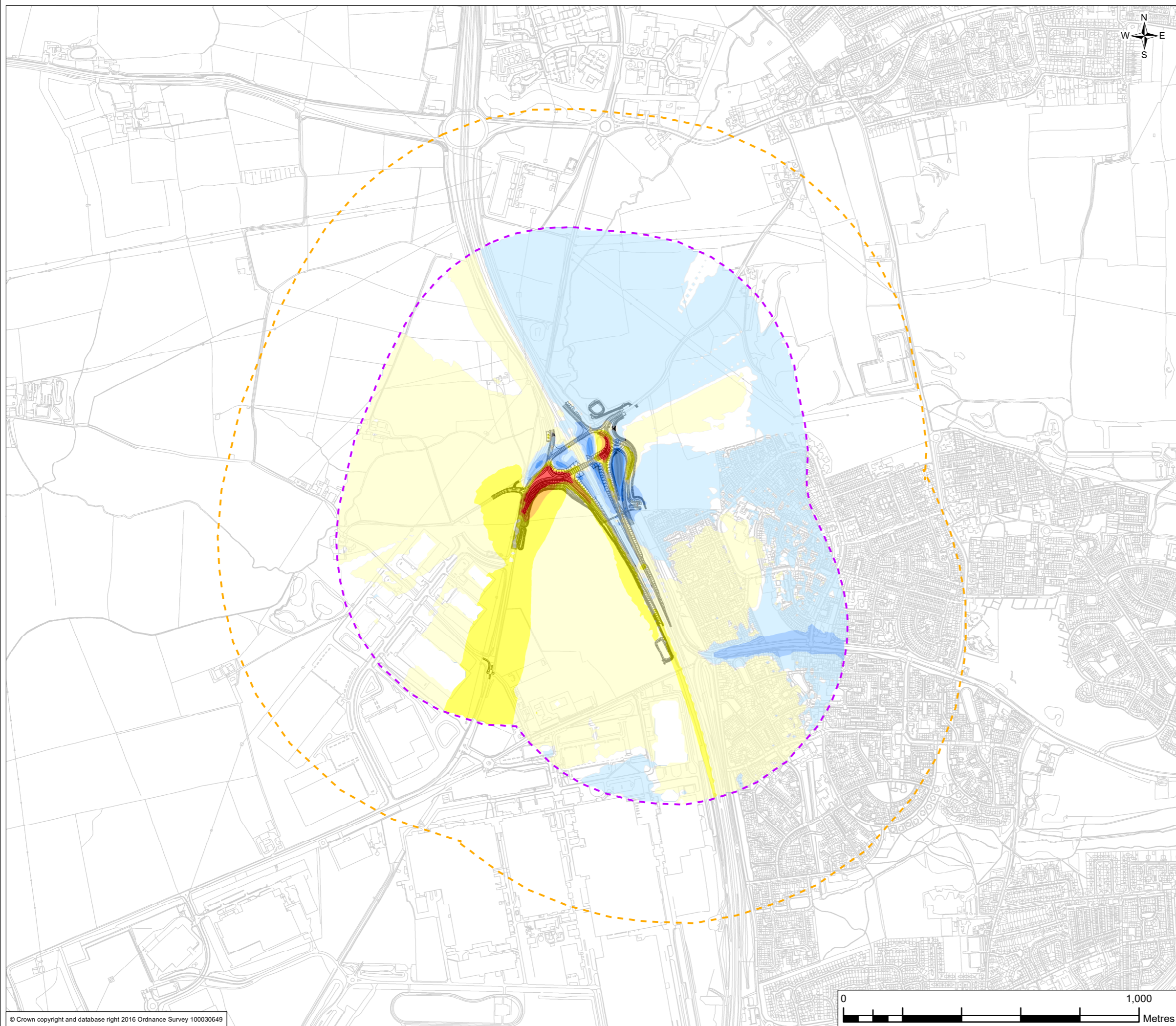


FIGURE 12.7



Legend

- Preliminary Design
 - - - Study Area
 - - - Calculation Area
- Noise Change, $L_{LA10, 1hr}$**
- ≤ -5.0 - Major Benefit
 - 4.9 to -3.0 - Moderate Benefit
 - 2.9 to -1.0 - Minor Benefit
 - 0.9 to -0.1 - Negligible Benefit
 - 0 - No Change
 - 0.1 to 0.9 - Negligible Adverse
 - 1.0 to 2.9 - Minor Adverse
 - 3.0 to 4.9 - Moderate Adverse
 - ≥ 5.0 - Major Adverse

The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.

0	JAN 19	Application Issue	LT	SW	RM	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client **highways england**

Project **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title **NOISE CONTOUR PLOT FOR THE SHORT TERM, 'WITH SCHEME', DO MINIMUM 2021 VS DO SOMETHING 2021 SCENARIO FOR 05:00 - 06:00**

Drawing Status **DCO SUBMISSION**

Scale @ A3 **1:12,500** **DO NOT SCALE**

Jacobs No. **B0140301**

Client No.

Drawing No. **B0140301_DLJ_ES_1207**

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