The Sizewell C Project

Deed of Obligation, Schedule 12, Annex W: Sizewell Link Road Construction Refreshed Noise Assessment

Part 1 of 2

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Sizewell C
The power of **good for Britain**

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1. Introduction

1.1 AECOM has been appointed by Sizewell C Limited (SZC) to identify residential buildings that will qualify under the Noise Mitigation Scheme (NMS) (as set out in Annex W of the **Deed of Obligation**[1]) as a result of the construction and operation of the Sizewell C nuclear power station project ('the project'). The project includes the following elements:

- The main development site (MDS) comprising land required for the Sizewell C nuclear power station, offshore works and land used temporarily to support construction, including a temporary accommodation campus and caravan site for the construction workforce. This includes the land east of Eastlands Industrial Estate (LEEIE).
- Two temporary park and ride sites, one at Darsham (the 'northern park and ride site') and one at Wickham Market (the 'southern park and ride site'), to reduce the amount of traffic generated by the construction workforce on local roads and through local villages.
- A permanent road to bypass Stratford St Andrew and Farnham (referred to as the 'two village bypass' or TVB), to alleviate traffic and mitigate road safety effects on the A12 through the two villages.
- A permanent road linking the A12 to west of the Sizewell C main development site (referred to as the 'Sizewell link road' or SLR), to alleviate traffic from the B1122 through Theberton and Middleton Moor.
- Permanent highway improvements at the junction of the A12 and B1122 east of Yoxford (referred to as the 'Yoxford roundabout') and other road junctions to accommodate Sizewell C construction traffic and mitigate road safety effects.
- A temporary freight management facility (FMF) at Seven Hills on land to the south-east of the A12/A14 junction to manage the flow of freight to the main development site.
- A temporary extension of the existing Saxmundham to Leiston branch line into the main development site (referred to as 'the green rail route' or GRR) and other permanent rail improvements on the Saxmundham to Leiston branch line, to transport freight by rail to remove large numbers of lorries from the regional and local road network.

1.2 In addition, there will be temporary intensification for approximately 8 to 10 years of the use of the existing East Suffolk line railway between Westerfield Junction, just north of Ipswich and the junction with the Saxmundham to Leiston branch line, just north of Saxmundham, and the Saxmundham to Leiston branch line itself.

1.3 The project received development consent on 20 July 2022 under Statutory Instrument 2022 No 853. 'The Sizewell C (Nuclear Generating Station) Order 2022'.

1.4 Separate reports have been produced regarding qualification under the NMS due to the construction and operational use of each of the various elements of the project set out in paragraphs 1.1 and 1.2 above, except for the operational use of the power station itself, since the **Development Consent Order** (**DCO**) (Requirement 40: Operational Noise) precludes the operation of the power station at noise levels that could lead to properties being eligible for noise insulation.

1.5 This report focuses on noise insulation qualification and the potential for temporary rehousing under the NMS due to the construction of the Sizewell link road (SLR).

1.6 Figure 1 provides an overview of the preliminary design of the SLR[2]. Only minor changes are anticipated at the detailed design stage.

1.7 Works covered by the assessment in this report are currently programmed to start in early 2025 and finish in mid-2027.

[1] The Sizewell C Project 8.17/10.4 *Deed of Obligation Engrossment Version – Annexures - Part 3 of 3*, Book 8 Revision: 9.0, Book 10 Revision: 1.0, PINS Reference Number: EN010012, https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-008256-SZC%20Co.%20-%20Final%20signed%20and%20dated%20s.106,%20final%20s.106%20Explanatory%20Memorandum%20and%20final%20Confirmation%20and%20Compliance%20Document%2017.pdf

[2] File: SZC-AD0310-WSP-SLRHGN-520000-MD2-HCH-000003.dwg SZC 6/2/24

2. Criteria

Construction

2.1 The criteria for noise insulation and temporary rehousing are set out in the NMS which is detailed in Annex W of the **Deed of Obligation.**

2.2 Table 1.1 of the NMS sets out the criteria for eligibility for insulation for construction noise, which are:

"A Property will be eligible for an offer of insulation where the Property is predicted to experience the following when measured 1 m from the external façade of any Eligible Room:

(1) a construction noise level which exceeds the higher of either:

(a) the noise insulation trigger levels set out in Table 1.3 for any Associated Development site or in Table 1.4 for the main development site for the corresponding times of the day; or

(b) the existing Baseline Ambient Sound Level for the corresponding times of the day; and

(2) an exceedance of (1) where:

(a) the exceedance is predicted to occur on 10 or more days of working in any 15 consecutive days or on a total number of days exceeding 40 in any 6 consecutive months; or

(b) where the exceedance occurs only on a Saturday or Sunday, it is predicted to occur on 2 weekends, or part thereof, in any 15 consecutive days or on 6 weekends, or part thereof, in any 6 consecutive months."

2.3 The numerical values associated with these criteria are contained in Tables 1.3 and 1.4 of the NMS. Since this report does not consider the construction of the MDS, the values in Table 1.4 of the NMS are not relevant.

2.4 Table 1 sets out the NMS insulation trigger levels for construction noise for the associated development sites, which are taken from Table 1.3 of the NMS, but rearranged so that multiple periods are grouped according to their eligibility threshold; the NMS presented the periods chronologically.

Table 1. Construction noise insulation trigger levels for the Associated Development sites (from Table 1.3 in the NMS)

Day/Time	Averaging Period, T	Noise Insulation Trigger Level dB $L_{Aeq,T}$
Day: Weekdays, 08:00 to 18:00, Saturday, 08:00 to 13:00	10 hr (weekdays) 5 hr (Saturdays)	75
Shoulder Periods: Weekdays, 07:00 to 08:00 Weekdays, 18:00 to 19:00 Saturday, 07:00 to 08:00 Saturday, 13:00 to 14:00	1 hr	70
Evenings and weekends: Weekdays 19:00 to 23:00, Saturdays 14:00 to 23:00, Sundays 07:00 to 23:00	4 hr (weekdays) 1 hr (Saturdays) 1 hr (Sundays)	65
Nights: Every day 23:00 to 07:00	1 hr	55

2.5 Table 1.2 of the NMS sets out the criteria for temporary rehousing due to construction noise, which are:

"An occupier of a Property will be eligible for an offer of temporary rehousing where a Property is predicted to experience:

(1) a construction noise level which exceeds the higher of either:

(a) the temporary rehousing trigger levels set out in Table 1.5 for the corresponding times of the day; or

(b) the existing Baseline Ambient Sound Level by 10 dB for the corresponding times of the day; and

(2) an exceedance of (1) where:

(a) the exceedance is predicted to occur on 10 or more days of working in any 15 consecutive days or on a total number of days exceeding 40 in any 6 consecutive months; or

(b) where the exceedance occurs only on a Saturday or Sunday, it is predicted to occur on 2 weekends, or part thereof, in any 15 consecutive days or on 6 weekends, or part thereof, in any 6 consecutive months."

2.6 The numerical values associated with these criteria are contained in Table 1.5 of the NMS, and these are set out in Table 2.

Table 2. Construction noise temporary rehousing trigger levels – all sites (Table 1.5 in the NMS)

Day	Time	Averaging Period, T	Temporary Rehousing Trigger Level dB $L_{Aeq,T}$
Monday to Friday	07:00 to 08:00	1 hr	80
	08:00 to 18:00	10 hr	85
	18:00 to 19:00	1 hr	80
	19:00 to 23:00	4 hr	75
	23:00 to 07:00	1 hr	65
Saturday	07:00 to 08:00	1 hr	80
	08:00 to 13:00	5 hr	85
	13:00 to 14:00	1 hr	80
	14:00 to 23:00	1 hr	75
	23:00 to 07:00	1 hr	65
Sunday and Public Holidays	07:00 to 23:00	1 hr	75
	23:00 to 07:00	1 hr	65

2.7 The trigger levels relate to 'façade' noise levels, i.e. 1 metre from the external façade.

2.8 The potential working times for the SLR construction works are Monday to Saturday 07:00 to 19:00. The appointed road construction contractor has advised that they may not need to carry out works on Saturday afternoons between 14:00 and 19:00. However, as this will not be confirmed until the construction programme is refined, a conservative approach to the assessment of eligibility for noise insulation has been adopted, whereby receptors that are predicted to meet the Saturday afternoon trigger levels have been identified.

2.9 For temporary rehousing, those properties that are predicted to be eligible based on Saturday afternoon construction works have been identified separately from any that are predicted to be eligible during the 'core' working hours as discussed in paragraph 2.16.

2.10 The appointed road construction contractor has confirmed that the one-hour 'shoulder' periods of 07:00 to 08:00 Monday to Saturday, 18:00 to 19:00 Monday to Friday, and 13:00 to 14:00 Saturday would be used for activities such as staff briefings, not construction works.

2.11 The NMS trigger levels at which offers of noise insulation or temporary rehousing are to be made are either the higher of the absolute levels set out in Tables 1 and 2, or a level set relative to the baseline ambient sound levels at a receptor, where the existing ambient sound levels already exceed the absolute trigger levels.

2.12 Based on the baseline noise monitoring and modelling completed for the **Environmental Statement (ES)**[3] the baseline ambient sound levels at the façades of the receptors along the B1122 that are closest to that road are generally in the low 60 to low 70 dB, $L_{Aeq,16h,\ free\text{-}field}$ range during the day and the low 60 dB $L_{Aeq,8h,free\text{-}field}$ range at night. These values are potentially above all of the trigger levels in the NMS for insulation due to construction noise, other than for the weekday daytime and Saturday morning period. At receptors and

[3] The Sizewell C Project 6.7 Revision, 1.0, Volume 6 Sizewell Link Road *Chapter 4 Noise and Vibration*, May 2020,PINS Reference Number: EN010012, https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-002069-SZC_Bk6_ES_V6_Ch4_Noise%20and%20Vibration.pdf

façades further away from the B1122 along the route of the link road, baseline ambient sound levels are lower and generally below the trigger levels in the NMS.

2.13 Taking a conservative approach, the absolute trigger levels for eligibility for noise insulation set out in Table 1 and the absolute trigger levels for eligibility for temporary rehousing set out in Table 2 have been adopted for all receptors, even where the ambient sound levels are likely to be higher than the trigger levels. This is considered to be a robust application of the NMS.

2.14 For the sake of clarity, the daytime shift spans the 'daytime' ten-hour period Monday to Friday and five-hour Saturday morning period defined in the NMS, as well as the Saturday afternoon period. Although it is noted the appointed contractor may not need to use Saturday afternoons for construction works, this is not yet confirmed so they have been included to provide a conservative approach.

2.15 The relevant noise insulation trigger level will be the most stringent threshold over these periods, which is 65 dB, quantified as a one-hour $L_{Aeq,T}$ during Saturday afternoons. Even though the contractor may not need to work on Saturday afternoons, the time required to insulate the affected properties means that it is better to make offers to more houses than might ultimately require it, so Saturday afternoon working is possible should it become necessary. If this approach is not adopted, the works may potentially be delayed while the NMS process is implemented.

2.16 The time required to organise temporary rehousing is much shorter, and therefore the weekday daytime and Saturday morning trigger level of 85 dB has been adopted, quantified as either a ten-hour $L_{Aeq,T}$ on Mondays to Fridays between 08:00 and 18:00 or a five-hour $L_{Aeq,T}$ on Saturday mornings from 08:00 to 13:00. The properties that would be eligible for temporary rehousing if Saturday afternoon working does become necessary have been identified in the text of this report, based on the lower trigger level of 75 dB as a one-hour $L_{Aeq,T}$.

2.17 Some works are required outside of normal daytime hours, these relate to six nights of work at the new rail bridge over the East Suffolk line railway. No out-of-hours works are currently anticipated to be required for the tie-ins of the link road to the A12 and B1122, these works are proposed to be completed during normal daytime hours using traffic management.

2.18 For the night-time rail bridge works, the relevant noise insulation trigger level is 55 dB, and the relevant temporary rehousing trigger level is 65 dB, both quantified as a one-hour $L_{Aeq,T}$.

3. Methodology

Construction activities and plant

3.1 The construction of the Sizewell C Project will span 9-12 years and involve many different contractors. A contractor is in place for the majority of the SLR works, therefore the construction information set out in the **ES**[4&5] has been reviewed and updated as appropriate.

3.2 The calculations use the SoundPLAN noise modelling software (version 8.2). The construction activities and plant from the **ES** have been used as a starting point, however, the appointed contractor has provided various updates and additional detail on the construction activities, plant, working times and durations, which have been adopted. The **ES** was based on spreadsheet calculations rather than noise modelling and focussed on the identification of potentially significant effects. Potential qualification under the NMS was considered for construction noise, although the **ES** noted that a refreshed noise assessment would be required once more information on the construction works was available.

[4]The Sizewell C Project 6.7 Revision: 1.0 Volume 6 Sizewell Link Road *Chapter 4 Noise and Vibration Appendices 4A - 4B,* May 2020, PINS Reference Number: EN010012 https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-002071-SZC_Bk6_ES_V6_Ch4_Noise_and_Vibration_Appx4A_B.pdf SZC_Bk6_ES_V5_Ch4_Noise_and_Vibration_Appx4A_4B_Noise_Appendices.pdf

[5] The Sizewell C Project 6.7 Revision: 1.0 Volume 6 Sizewell Link Road *Chapter 2 Description of Sizewell Link Road*, May 2020, PINS Reference Number: EN010012, https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-002064-SZC_Bk6_ES_V6_Ch2_Description%20of%20Sizewell%20Link%20Road.pdf

3.3 Table 3 details the assumed construction activities and durations. The list of plant used in the model for each activity is provided in Appendix A.

Table 3. Construction activities

Ref	Activity	Duration
1.1	Site set up - Vegetation clearance	50 days
1.2	Compound build (x2 main compounds and x3 satellite compounds)	92 days total
1.3	Build haul road	90 days
1.4	Temporary river crossing	12 days
2.1	Topsoil Strip	148 days
2.2	Remove existing roads within scheme extents	14 days
2.3	Earthworks	370 days
3.1	Drainage	183 days
3.2	Ponds	276 days
4.1	Pavements – new outside extents of existing roads	166 days
4.2	Pavements blacktop	216 days
4.3	Pavements tie-ins (A12 roundabout & B1122 Middleton Moor)	40 days each
4.4	Remove existing roads outside scheme extents	10 days
5.1	Kerbs (A12 roundabout & B1122 Middleton Moor)	56 days total
5.2	Footpaths	47 days
5.3	Private access/passing points	7 days
6.1	Rail Bridge foundations & abutments	60 days
6.2	Rail Bridge deck installation - day	30 days
6.3	Rail Bridge deck installation - night	6 nights
6.4	Rail Bridge finishes	10 days
6.5	Access Bridge access ramps	5 days
6.6	Access Bridge foundations and abutments	25 days
6.7	Access Bridge deck installation	30 days
6.8	Access Bridge finishes	10 days
6.9	Underpass (Rail Bridge and Trust Farm)	Rail Bridge 22 days/ Trust Fm 24 days
6.10	Watercourse Diversion Trust Farm	5 days
6.11	Culverts CV01-CV13	320 days (15-50 days each)
7.1	Road Restraints	5 days
8.1	Fencing	112 days
9.1	Road Lighting (A12 roundabout & B1122 Middleton Moor)	10 days each
10.1	Haul Road operation	-
10.2	Compound operation (A12 & A12 / Friday St junctions)	-
11.1	Compound removal	15 days

3.4 The duration of the majority of the daytime activities is more than ten days and therefore they have the potential to meet the noise insulation and temporary rehousing criteria. The night-time activity (Activity 6.3 Rail bridge deck installation) is expected to last less than ten nights, therefore the night-time works cannot trigger qualification for noise insulation or temporary rehousing.

Ground heights

3.5 The noise model contains a 3-dimensional representation of the existing ground heights in the study area. The ground data is based on 2020 2 m Digital Terrain Model (DTM) LIDAR data downloaded from the Defra website[6] in December 2021, which has been filtered using the standard settings in the SoundPLAN software to reduce the size of the dataset.

3.6 Proposed ground heights for the SLR works are incorporated into the noise model for the assessment of the later construction works, once the main earthworks and drainage are complete. The proposed ground heights are based on data provided by WSP in December 2023[7].

[6] https://environment.data.gov.uk/surveydownloaded 16/12/21 © Environment Agency copyright and/or database right 2021. All rights reserved.
[7] File: 'SZC SLR Proposed Top Surface.dwg' from WSP 19/12/23

OS datasets

3.7 The noise model contains a 3-dimensional representation of residential and non-residential buildings in the surrounding area, and a representation of the existing ground type, for example acoustically hard surfaces such as concrete or water, or acoustically soft surfaces such as vegetation. These data are based on OS MasterMap (including the Building Height Attribute dataset) and OS AddressBase Plus data provided by Dalcour Maclaren in December 2021.

Receptors

3.8 The construction noise calculations have been undertaken at the 80 no. receptor buildings shown on Sheets 1 to 18 of Figure 2. Predicting construction noise levels at every façade of every property is not a reasonable or proportionate approach and therefore, in some locations a single receptor position is used to represent several adjacent properties or façades. Professional judgement has been applied conservatively to identify which façades at a property are likely to qualify. For example, if the façade of one half of a pair of semi-detached properties is just over the relevant criterion and the other half is just under, then both have been identified as qualifying.

Mitigation

3.9 At this stage no specific mitigation has been identified for inclusion in this construction noise assessment, so no allowance for mitigation has been made in the calculations presented in this report.

Prediction method

3.10 The prediction method for the construction noise assessment is that contained in ISO 9613-2:1996[8], as was the case for the SLR construction noise calculations in the **ES**.

3.11 Many of the construction activities will progress across the worksite, therefore, estimates of the working areas over ten days have been made based on the total area of each activity and the total duration of each activity. The surrounding residential properties have been grouped into 31 no. areas, annotated on Sheets 1 to 18 of Figure 2 as a prefix from A to AE. The working area over ten days that is closest to each of the 31 no. groups of residential properties has been used to estimate the average construction noise level over the worst ten days.

3.12 Some activities are limited to specific locations, therefore their noise levels are assumed to be constant for the duration of these activities, including the construction (Activity 1.2), operation (Activity 10.2) and removal (Activity 11.1) of the compounds, the temporary river crossing (Activity 1.4), the tie-ins (Activity 6.4), private access/passing points (Activity 5.3), works to construct the rail bridge (Activities 6.1 - 6.4), access bridge (Activity 6.5-6.8), underpasses (Activity 6.9), watercourse diversion (Activity 6.10) and the culverts (Activity 6.11).

3.13 The majority of the works are by their nature sequential in any one location, e.g. topsoil strip followed by earthworks, then pavements, kerbs, footpaths and finally lighting. Therefore, there is limited potential for these activities to overlap in any one location. In particular, it is highly unlikely that the worst-case ten days of more than one of these activities will coincide at any one location. However, given the size of the scheme, there is potential for sequential activities to occur at the same time in adjacent areas of the scheme, and activities limited to a specific location will overlap with other activities.

3.14 The current programme has been reviewed and a total of seven combinations of daytime activities over the duration of the works have been assessed, and the worst-case combination reported for each receptor.

Assumptions and limitations

3.15 As with all construction noise assessments, the predicted noise levels can only ever be a best estimate of the actual noise levels due to the large number of variables for which assumptions must be made, including the number, type and on-time of each item of plant, and the location and extent of the activity. Estimating the noise level that is likely to be exceeded for ten days also includes some inherent uncertainty as it is

[8] ISO 9613-2:1996 ‘Acoustics — Attenuation of sound during propagation outdoors — Part 2: General method of calculation’

dependent on assumptions on the duration of the activity, the rate of progress across the working area and the manner in which the works will progress.

3.16 The eligibility for insulation and/or temporary rehousing due to construction works under the NMS is based on the predicted construction noise levels exceeding the relevant trigger levels. However, for the purposes of this refreshed assessment, eligibility is considered to also occur where the predicted construction noise levels are equal to the relevant trigger level. The results have been rounded to the nearest whole decibel, i.e. 0.5 dB is rounded up. This is considered a reasonable approach given the inherent uncertainties in the construction noise calculation process.

3.17 Some utility diversion works will be required at the SLR and at this stage there is insufficient detail available on the nature, timing, and duration of these works to quantify noise from them; therefore utility diversion works are not included in this assessment.

4. Results

4.1 Full details of the predicted construction noise levels at the 80 no. selected receptor buildings are provided in Appendix B, and are also illustrated on the 18 no. sheets of Figure 2. Façades identified as qualifying for noise insulation are also highlighted.

4.2 The highest construction noise levels are generally associated with the earthworks, drainage, ponds and pavement works. The works associated with activities such as fencing and road lighting require less noisy plant and, therefore, generally result in lower noise levels. The works to construct the rail bridge, access bridge and the majority of the culverts are not in close proximity to residential properties and therefore do not generally result in high construction noise levels at receptors.

4.3 Night-time noise levels during the rail bridge deck installation works are low due to the distance to residential properties, less than 55 dB $L_{Aeq,T,façade}$ at the closest property (G_14). In addition, as detailed in Section 3 of this report, the night-time works cannot trigger noise insulation and temporary-rehousing qualification as the duration does not meet the ‘ten or more days’ threshold.

Eligibility for insulation

4.4 The results indicate that exceedances of the noise insulation criteria are predicted at 27 no. of the selected receptor buildings close to the scheme, 26 no. of which are residential buildings, and one of which is the holiday let at Valley Farm (S_50).

4.5 At 18 no. of the 27 no. residential properties, and the holiday let at Valley Farm, the exceedances are based on meeting the Saturday afternoon noise insulation trigger level. At eight of the residential buildings, the 75 dB weekday daytime and Saturday morning noise insulation trigger level is also met. Although the contractor has indicated that construction works may not be needed on Saturday afternoons, it is considered prudent to assume that such works might occur, as the time required for the installation of insulation makes it difficult to insulate properties at short notice should Saturday afternoon working be necessary.

4.6 A total of 11 no. residential properties on the B1122 identified as qualifying for noise insulation due to the construction of the SLR, have already been identified as qualifying for noise insulation at facades facing the B1122 under Schedule 12 of the **Deed of Obligation**, termed ‘the B1122 Properties’, these being M_28 and O_33 close to Fordley Road, Q_37, Q_39 to Q_42 close to Title Road and S_46 to S_49 close to Hawthorn Road. At some of these properties the SLR construction works will bring in additional façades as qualifying for noise insulation.

Eligibility for temporary rehousing

4.7 The temporary rehousing trigger level for the weekday daytime and Saturday morning period is not predicted to be exceeded at any residential properties.

4.8 The temporary rehousing trigger level for Saturday afternoons is predicted to be exceeded at eight residential properties represented by Receptors A_02, N_31, Q_41, S_46, S_47, S_48, T_52 and T_53. These are located close to the scheme at the A12 junction, the Fordley Road junction, the connection to the B1122 close to Title Road and the Hawthorn Road connection.

4.9 The contractor has indicated that construction works may not be needed on Saturday afternoons. As the time required to organise temporary rehousing is significantly shorter than for the installation of insulation, and because the contractor will have the ability to manage the works to avoid unnecessarily disrupting people's lives by rehousing them, the properties identified as being potentially eligible for temporary rehousing based on Saturday afternoon working will be reviewed periodically as the works progress. The eight residential properties that might be eligible for temporary rehousing if construction works become necessary on Saturday afternoons, are therefore not explicitly identified on Figure 2.

Mitigation

4.10 Requirement 2 of the DCO requires a Noise Monitoring and Management Plan (NMMP), as part of the Code of Construction Practice, for the SLR construction works, to be submitted to East Suffolk Council for approval. The NMMP will set out noise mitigation measures.

4.11 The benefit of such measures has not been included in the calculations set out in this report, and since their purpose will be to reduce construction noise levels, the assessment of eligibility for noise insulation set out in this report will not need to be revisited.

4.12 The implications of any alterations to the proposed timing or durations of the works may require an update of this noise assessment in due course to confirm eligibility for temporary rehousing.

5. Conclusion

5.1 The results of the construction noise modelling indicate that 26 no. residential properties close to the scheme, and the holiday let at Valley Farm, are predicted to be eligible for noise insulation under the Noise Mitigation Scheme for the Sizewell C project. At the majority of these properties, this conclusion is based on construction works on a Saturday afternoon being carried out, despite the contractor advising they may not be needed.

5.2 The time required to organise the installation of insulation is such that it is considered prudent to assume that Saturday afternoon works could occur, thereby avoiding the need to delay the works in the event that such working is necessary.

5.3 No properties are predicted to be eligible for temporary rehousing, assuming working on Saturday afternoons is not needed. The time required to organise temporary rehousing is much shorter than for the installation of insulation, so should Saturday afternoon working prove necessary, the properties likely to be eligible for temporary rehousing can be reviewed closer to the time. Based on the current programme, up to eight residential properties may be eligible for temporary rehousing should Saturday afternoon working be necessary.

Appendix A Construction information

Table 4. Summary of construction information

Ref	Activity	Plant	% on-time	No. of plant items	L_{wA} dB
1.1	Vegetation clearance	Chainsaw	17	2	115
		Woodchipper	17	1	121
1.2	Compound build	Lorry loader crane HIAB	25	1	104
		Diesel / petrol generator	100	1	97
		360 Wheeled / tracked excavator	70	2	107
		5t dumper	70	2	106
		Vibratory tamping roller	50	1	111
1.3	Build haul road	Tracked dozer	75	1	108
		Vibratory tamping roller	50	1	111
		Road tipper wagon	100	2	107
1.4	Temporary river crossing	20t 360 excavator	80	1	106
		Concrete mixer truck	50	1	107
		Lorry loader crane HIAB	50	1	104
		Dump truck 1	50	1	106
2.1	Topsoil strip	Lorry loader crane HIAB	25	1	104
		Diesel / petrol generator	100	1	97
		360 Wheeled / tracked excavator	70	2	107
		180 Backhoe loader	50	1	107
		Dump truck 1	70	2	106
		Road tipper wagon	50	1	107
		Tracked dozer	50	1	108
2.2	Pavements remove existing within	Cold planer/milling machine	70	1	104
	Scheme extents	Dump truck 2	50	1	108
		360 Tracked excavator (with breaker)	70	1	116
2.3	Earthworks	Tracked dozer	50	3	108
		Wheeled loading shovel	50	1	107
		360 Tracked excavator	70	3	110
		Motorgrader/scraper	90	2	108
		Articulated hauler/Dump truck	50	12	108
		Vibratory tamping roller	50	3	111
		Road tipper wagon	50	1	107
3.1	Drainage	Lorry loader crane HIAB	25	1	104
		360 Tracked excavator	70	3	110
		180 Backhoe loader	50	3	107
		Dump truck 1	70	1	106
		Wheeled loading shovel	50	1	107
		Concrete mixer truck	50	1	107
		Trench rammer	25	3	91
		Road tipper wagon	50	4	107
3.2	Ponds	Tracked dozer	50	3	108
		Wheeled loading shovel	50	1	107
		360 Tracked excavator	70	3	110
		Motorgrader/scraper	90	2	108
		Articulated hauler/Dump truck	50	12	108
		Vibratory tamping roller	50	3	111
		Road tipper wagon	50	1	107
4.1	Pavements new outside extents of	Dump truck 2	50	4	108
	Existing roads	360 Tracked excavator	70	2	110
		180 Backhoe loader	50	1	107
4.2	Pavements blacktop	Asphalt paver(and tipper lorry)	70	2	109
		Compressor and pneumatic hand tool	17	2	118

Ref	Activity	Plant	% on-time	No. of plant items	L_{wA} dB
		180 Backhoe loader	50	1	107
		Deadweight/vibrating roller	50	4	111
		Vibrating plate compactor	25	2	110
4.3	Pavements tie ins	Dump truck 2	50	1	108
	A12 & B1122 Middleton Moor	Cold planer/milling machine	70	1	104
		360 Tracked excavator (with breaker)	10	1	116
		Hand saw	20	1	112
		360 Tracked excavator	60	1	110
		Compressor and pneumatic hand tool	17	1	118
		Deadweight/vibrating roller	50	1	111
		Vibrating plate compactor	25	1	110
4.4	Remove existing roads outside	Cold planer/milling machine	70	1	104
	scheme extents	Dump truck 2	50	1	108
		360 Tracked excavator (with breaker)	70	1	116
5.1	Kerbs	Road sweeper	70	1	107
	A12 & B1122 Middleton Moor	Lorry loader crane HIAB	25	1	104
		Telehandler	50	1	107
		Concrete mixer truck	70	1	107
		Compressor and pneumatic hand tool	17	2	118
		5t excavator	25	2	93
5.2	Footpaths	Mini asphalt paver(and tipper lorry)	60	1	109
		Deadweight/vibrating roller	60	1	111
		Vibrating plate compactor	60	1	110
5.3	Private access/passing points	Soil stabilizer WR200	75	1	106
		Road tipper wagon	50	1	107
		Small tanker	50	1	104
		Wheeled loading shovel	50	1	107
		Vibratory tamping roller	75	1	111
6.1	Rail Bridge foundations and abutments	Mobile all terrain crane	50	1	101
		Piling rig (Continuous flight auger/bored)	50	1	108
		Dump truck 2	50	1	108
		Concrete pump	50	1	108
		Concrete mixer truck	70	1	107
		Lorry loader crane HIAB	25	1	104
		360 Tracked excavator	70	1	110
6.2	Rail Bridge deck installation DAY	Lorry loader crane HIAB	25	1	104
		Telehandler	50	1	107
		360 Tracked excavator	70	1	110
		Concrete mixer truck	70	1	107
		Concrete pump	50	1	108
		Concrete compaction plant	25	1	96
		Dump truck 2	50	1	108
		Deadweight/vibrating roller	50	1	111
		Compressor and pneumatic hand tool	17	1	118
		Mobile elevating work platform-vehicle mounted or self-propelled	25	1	104
6.3	Rail Bridge deck installation NIGHT	Lorry loader crane HIAB	25	1	104
		Telehandler	50	1	107
		360 Tracked excavator	70	1	110
		Concrete mixer truck	70	1	107
		Concrete pump	50	1	108
		Concrete compaction plant	25	1	96
		Dump truck 2	50	1	108
		Deadweight/vibrating roller	50	1	111
		Compressor and pneumatic hand tool	17	1	118

Ref	Activity	Plant	% on-time	No. of plant items	L_{wA} dB
		Mobile elevating work platform-vehicle mounted or self-propelled	25	1	104
6.4	Rail bridge finishes	Asphalt paver(and tipper lorry)	90	1	109
		Compressor and pneumatic hand tool	10	1	118
		180 Backhoe loader	30	1	107
		Deadweight/vibrating roller	75	2	111
		Vibrating plate compactor	25	1	110
6.5	Access Bridge ramps	Soil stabilizer WR200	75	1	106
		Road tipper wagon	50	1	107
		Small tanker	50	1	104
		Wheeled loading shovel	50	1	107
		Vibratory tamping roller	75	1	111
6.6	Access Bridge foundations an	Mobile all terrain crane	50	1	101
	abutments	Piling rig (Continuous flight auger/bored)	50	1	108
		Dump truck 2	50	1	108
		Concrete pump	50	1	108
		Concrete mixer truck	70	1	107
		Lorry loader crane HIAB	25	1	104
		360 Tracked excavator	70	1	110
6.7	Access Bridge deck installation	Lorry loader crane HIAB	25	1	104
		Telehandler	50	1	107
		360 Tracked excavator	70	1	110
		Concrete mixer truck	70	1	107
		Concrete pump	50	1	108
		Concrete compaction plant	25	1	96
		Dump truck 2	50	1	108
		Deadweight/vibrating roller	50	1	111
		Compressor and pneumatic hand tool	17	1	118
		Mobile elevating work platform-vehicle mounted or self-propelled	25	1	104
6.8	Access Bridge finishes	Asphalt paver(and tipper lorry)	90	1	109
		Compressor and pneumatic hand tool	10	1	118
		180 Backhoe loader	30	1	107
		Deadweight/vibrating roller	75	2	111
		Vibrating plate compactor	25	1	110
6.9	Underpass Rail Bridge and Trust Fm	Tracked dozer	50	1	108
		Wheeled loading shovel	50	1	107
		360 Tracked excavator	70	2	110
		Motorgrader/scraper	50	2	108
		Articulated hauler/Dump truck	50	8	108
		Vibratory tamping roller	50	2	111
		Mobile all terrain crane	50	1	101
6.10	Watercourse Diversion Trust Fm	Lorry loader crane HIAB	25	1	104
6.11	Culverts CV01-CV13	Telehandler	50	1	107
		360 Tracked excavator	70	1	110
		Concrete mixer truck	70	1	107
		Concrete pump	50	1	108
		Concrete compaction plant	25	1	96
		Dump truck 2	50	1	108
		Deadweight/vibrating roller	50	1	111
		Compressor and pneumatic hand tool	17	1	118
		Mobile all terrain crane	50	1	101
		Mobile elevating work platform-vehicle mounted or self-propelled	25	1	104
7.1	Road Restraints	Lorry loader crane HIAB	25	1	104
		Telehandler	50	1	107
		Concrete mixer truck	70	1	107

Ref	Activity	Plant	% on-time	No. of plant items	L_{wA} dB
		Mini excavator	50	1	100
		180 Backhoe loader	50	1	107
8.1	Fencing	Lorry loader crane HIAB	25	1	104
		180 Backhoe loader	50	1	107
		Concrete mixer truck	70	1	107
		5t excavator	80	2	93
9.1	Road Lighting	Lorry loader crane HIAB	25	1	104
	A12 & B1122 Middleton Moor	Mini excavator	50	1	100
		Mobile elevating work platform-vehicle mounted or self-propelled	25	1	104
10.1	Haul Road	Road tipper wagon	100	20/hr 2way	107
10.2	Operation of compounds	Telehandler	50	1	107
		Office generator	100	1	90
		Wheelwash	20	1	90
11.1	Compound removal	Lorry loader crane HIAB	25	1	104
		Diesel / petrol generator	100	1	97

Appendix B Detailed construction noise results

Table 5 contains a breakdown of the results for the individual or combined construction activities (Activities 1.1 to 11.1) at each receptor location/façade. At receptors with more than one floor, results for the floor with the highest noise level are reported. For activities that occur in more than one specific location, the highest level is reported, i.e. Activity 4.3 Pavement tie-ins at the A12 and B1122 Middleton Moor, Activity 6.9 Underpasses at the Rail Bridge and Trust Farm, Activity 6.11 Culverts CV01-CV13, and Activity 9.1 Lighting at the A12 and B1122 Middleton Moor. In Activity 10.2 all five compounds are assumed to operate at the same time, from Activity 2.1 onwards.

The 'Max Day' column contains the construction noise level for the noisiest individual activity or combination of activities during the day. A total of seven combinations of daytime activities over the duration of the works have been assessed. Results which meet or exceed the various NMS daytime trigger levels of 65, 70 and 75 dB $L_{Aeq,T}$ façade are highlighted as follows:

65 dB $L_{Aeq,T}$ façade – trigger level to qualify for noise insulation on Saturday afternoon
70 dB $L_{Aeq,T}$ façade – trigger level to qualify for noise insulation during shoulder hours on weekdays and Saturdays
75 dB $L_{Aeq,T}$ façade – trigger level to qualify for noise insulation on weekday daytimes and Saturday morning, and temporary rehousing on Saturday afternoon

Only a single activity is anticipated to occur at night (Activity 6.3 - Rail Bridge deck installation – night). No results meet or exceed the various NMS night-time trigger levels.

Note the results are highlighted solely on the basis of the construction noise trigger levels being met or exceeded. To qualify under the NMS both the construction noise level and duration criteria must both be met. Where relevant, durations are discussed in Section 4 of this report.

A '-' indicates the receptor is remote from the construction activity and the predicted construction noise level is low (less than 30 dB $L_{Aeq,T}$ façade).

Table 5. Detailed construction noise results ($L_{Aeq,T}$ façade)

ID	Façade	Max Day	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2	6.3 night	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	7.1	8.1	9.1	10.1	10.2	11.1
A_01	NE	62	62	43	47	-	48	48	58	52	56	47	47	57	32	52	48	-	32	34	32	35	-	-	-	-	38	-	51	30	53	34	45	34	31
A_01	SE	74	67	52	53	-	63	66	74	68	70	60	63	74	49	71	61	-	32	34	32	35	-	-	-	-	38	-	54	30	58	50	52	46	41
A_02	NW	62	53	41	40	-	51	51	62	58	56	54	57	59	49	55	45	-	-	-	-	-	-	-	-	-	-	-	39	-	48	42	45	31	30
A_02	SE	75	67	52	53	-	63	67	75	69	70	59	62	75	49	72	62	-	32	34	32	35	-	-	-	-	38	-	54	30	59	50	52	46	41
A_02	SW	74	66	52	53	-	63	65	74	69	70	60	62	73	51	71	61	-	-	-	-	-	-	-	-	-	-	-	54	-	59	50	52	47	39
A_03	NW(c)	65	50	51	51	-	55	47	61	58	65	56	58	55	48	55	53	-	-	-	-	31	-	-	-	-	31	-	47	-	48	43	49	44	39
A_03	NW(n)	66	50	47	50	-	55	47	62	57	66	55	58	55	48	55	51	-	-	-	-	-	-	-	-	-	-	-	46	-	47	43	48	40	35
A_03	NW(s)	65	51	52	53	-	56	48	62	59	65	57	59	56	47	55	54	-	-	-	-	-	-	-	-	-	-	-	49	-	49	44	51	46	40
B_04	E(n)	54	41	44	41	-	45	38	54	49	52	48	50	47	39	44	42	-	-	-	-	30	-	-	-	-	33	-	43	-	38	36	42	35	32
B_04	E(s)	54	40	43	41	-	45	37	54	48	52	48	50	45	39	43	42	-	-	30	-	31	-	-	-	-	34	-	43	-	38	36	42	35	31
B_04	N(e)	55	42	44	42	-	46	39	54	49	53	48	50	47	40	45	43	-	-	30	-	32	-	-	-	-	34	-	43	-	39	36	42	36	32
B_04	N(w)	53	40	43	40	-	44	37	53	48	51	47	49	45	39	44	41	-	-	-	-	-	-	-	-	-	33	-	42	-	37	35	41	35	31
B_04	S	45	33	36	32	-	36	32	45	40	41	38	39	40	-	35	32	-	-	-	-	-	-	-	-	-	-	-	33	-	30	-	32	-	-
B_04	W(n)	41	-	31	-	-	31	-	40	34	39	33	33	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ID	Façade	Max Day	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2	6.3 night	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	7.1	8.1	9.1	10.1	10.2	11.1
B_04	W(s)	39	-	30	-	-	30	-	38	32	38	31	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C_05	E	66	51	60	51	-	60	46	65	59	62	59	62	54	52	58	56	-	32	34	32	35	-	-	-	-	35	-	53	30	55	47	53	49	47
C_05	N	68	57	58	50	-	60	56	67	63	61	60	63	63	55	62	56	-	32	34	32	35	-	-	-	-	35	-	52	30	60	49	54	48	46
C_05	S	60	49	46	36	-	46	49	56	52	46	44	45	56	35	52	37	-	-	-	-	-	-	-	-	-	-	-	37	-	58	34	38	30	35
C_05	W	69	58	44	41	-	55	57	66	62	54	58	61	64	54	62	52	-	-	-	-	-	-	-	-	-	-	-	37	-	65	48	51	31	32
C_06	E	61	50	51	45	-	52	49	61	56	55	54	57	57	46	55	47	-	31	32	-	34	-	-	-	-	36	-	47	-	46	42	47	42	38
C_06	N(e)	63	52	53	47	-	54	52	63	59	58	56	58	60	49	57	49	-	31	32	-	34	-	-	-	-	36	-	50	-	49	44	49	44	41
C_06	N(w)	63	52	53	47	-	54	53	63	59	58	56	58	61	49	58	49	-	33	35	33	37	-	-	-	-	40	-	50	31	49	44	49	43	40
C_06	S	55	43	37	37	-	44	42	54	49	53	47	49	49	41	48	39	-	-	-	-	-	-	-	-	-	-	-	33	-	39	36	40	-	-
C_06	W	61	50	41	40	-	49	51	61	56	55	52	55	58	46	55	43	-	-	-	-	-	-	-	-	-	-	-	37	-	46	41	45	-	-
C_07	N	63	52	42	41	-	51	52	63	58	54	55	58	60	50	57	46	-	-	-	-	-	-	-	-	-	-	-	37	-	47	44	47	30	30
C_07	W	62	52	44	40	-	51	51	62	57	52	55	57	58	50	56	46	-	-	-	-	-	-	-	-	-	30	-	39	-	46	44	48	31	31
D_03	NE(e)	67	45	43	55	-	55	33	62	59	67	55	58	41	32	44	53	-	35	37	34	38	-	-	-	-	40	-	54	32	51	31	52	34	32
D_03	NE(w)	66	46	43	54	-	54	39	59	57	66	54	56	47	44	46	52	-	35	36	34	38	-	-	-	-	40	-	52	32	50	38	51	35	31
D_03	SE(n)	70	53	53	59	-	59	36	68	63	69	60	63	45	35	57	58	-	35	37	34	38	-	-	-	-	40	-	64	32	54	39	56	47	41
D_03	SE(s)	71	53	55	59	-	60	33	69	63	68	61	64	42	35	58	58	-	34	36	33	37	-	-	-	-	39	-	64	31	55	39	57	49	43
D_03	SW(n)	72	55	55	60	-	60	37	70	64	67	61	64	47	39	59	59	-	-	-	-	-	-	-	-	-	-	-	66	-	55	41	57	49	43
D_03	SW(s)	69	53	55	58	-	59	48	67	63	67	60	63	56	48	58	58	-	-	-	-	-	-	-	-	-	-	-	62	-	53	46	56	49	43
E_08	NE	53	40	46	43	-	45	31	51	47	51	46	48	39	35	37	43	-	37	38	35	39	-	-	-	-	42	-	49	33	39	30	44	34	34
E_08	NW	60	45	50	48	-	51	38	58	53	60	51	54	46	40	49	48	-	-	-	-	-	-	-	-	-	32	-	53	-	45	37	47	43	38
E_08	SE	49	40	44	42	-	42	35	46	45	47	45	45	42	34	40	41	-	35	37	34	38	-	-	-	-	41	-	45	32	37	30	42	37	31
E_08	SW	50	40	49	40	-	46	37	47	43	50	43	43	44	39	43	40	-	-	-	-	-	-	-	-	-	32	-	42	-	37	35	41	40	36
E_09	NE	58	42	45	47	-	48	32	57	52	56	50	52	41	33	43	46	-	37	39	36	40	-	-	-	-	42	-	49	35	43	31	46	36	33
E_09	NW	56	39	46	46	-	47	35	55	51	54	49	51	43	35	41	44	-	-	30	-	31	-	-	-	-	35	-	46	-	41	32	44	34	33
E_09	SE	50	38	40	41	-	37	-	45	43	44	43	43	30	-	-	39	-	36	38	35	38	-	-	-	-	42	-	47	34	35	-	42	-	-
E_09	SW	50	39	49	39	-	45	37	45	41	47	43	41	45	38	42	40	-	-	-	-	-	-	-	-	-	33	-	39	-	36	35	40	40	36
E_10	NE(e)	57	42	44	46	-	47	33	55	51	54	49	51	41	32	41	45	-	38	40	37	41	-	-	-	-	43	-	48	35	42	30	46	35	32
E_10	NE(w)	58	43	46	48	-	49	34	57	53	56	51	53	43	35	44	47	-	35	36	33	37	-	-	-	-	40	-	49	32	43	33	47	38	34
E_10	NW(n)	58	42	45	47	-	48	34	57	52	55	50	52	43	34	42	46	-	33	34	30	35	-	-	-	-	38	-	48	31	43	32	46	36	33
E_10	NW(s)	57	41	45	46	-	47	34	56	51	55	49	51	43	34	39	45	-	33	34	31	35	-	-	-	-	38	-	47	30	41	30	45	30	33
E_10	SE	49	39	40	39	-	35	-	43	39	41	39	40	-	-	-	37	-	37	39	37	40	-	-	-	-	43	-	46	35	31	-	41	-	-
E_10	SW	48	37	47	38	-	43	34	47	42	46	41	43	43	37	39	39	-	-	-	-	-	-	-	-	-	33	-	38	-	35	33	39	34	34
F_11	E(c)	57	45	49	47	-	48	-	55	50	54	48	50	34	-	-	40	-	45	46	43	46	-	-	-	-	51	-	44	43	40	-	45	42	37
F_11	E(n)	57	44	49	46	-	47	-	55	49	54	48	50	33	-	-	40	-	45	47	44	48	-	-	-	-	51	-	42	42	39	-	45	41	36
F_11	E(s)	58	48	52	48	-	50	-	56	52	55	50	52	34	-	-	41	-	48	50	46	50	-	-	-	-	53	-	44	46	42	-	47	44	39

ID	Façade	Max Day	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2	6.3 night	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	7.1	8.1	9.1	10.1	10.2	11.1
F_11	S	58	46	49	49	-	49	31	57	52	56	50	52	37	30	36	42	-	44	46	43	46	-	-	-	-	48	-	46	42	42	-	47	40	36
F_11	W	57	43	41	47	-	46	-	56	50	53	48	50	37	-	36	41	-	33	34	30	35	-	-	-	-	39	-	47	31	40	-	45	32	-
F_12	E	55	43	49	45	-	46	-	52	48	53	46	48	34	-	-	36	-	46	48	45	49	-	-	-	-	51	-	42	42	38	-	43	41	37
F_12	N	45	30	39	35	-	36	-	43	37	42	37	37	31	-	-	-	-	33	34	31	35	-	-	-	-	39	-	32	-	-	-	36	-	-
F_12	W	52	39	41	44	-	42	-	49	46	47	45	46	38	30	37	40	-	32	33	30	33	-	-	-	-	38	-	46	-	36	-	43	31	-
F_13	E(n)	50	37	44	40	-	41	-	48	43	48	43	44	32	-	-	34	-	40	42	39	43	-	-	-	-	45	-	40	38	33	-	40	35	33
F_13	E(s)	47	33	40	37	-	38	-	45	40	45	40	41	31	-	-	30	-	35	37	34	37	-	-	-	-	40	-	35	33	-	-	37	-	-
F_13	N	45	30	36	34	-	35	-	43	36	43	35	36	33	-	-	-	-	30	31	-	31	-	-	-	-	36	-	30	-	-	-	35	-	-
F_13	W	54	38	40	43	-	44	-	54	46	49	45	48	35	-	31	36	-	37	40	36	38	-	-	-	-	40	-	37	32	35	-	41	-	-
G_14	NE	52	41	45	43	-	41	34	49	45	50	45	46	39	30	38	39	-	39	41	38	42	-	-	-	-	47	30	48	38	36	-	43	36	33
G_14	SE(c)	62	46	55	50	-	52	-	60	53	51	52	55	31	-	-	44	-	52	54	53	56	-	-	-	-	58	-	50	49	42	-	47	48	43
G_14	SE(n)	56	43	49	46	-	45	34	53	48	50	48	50	40	31	38	40	-	44	45	43	47	-	-	-	-	51	-	50	42	38	-	44	42	37
G_14	SE(s)	61	45	54	49	-	51	32	58	52	51	51	54	37	-	36	43	-	50	52	51	54	-	-	-	-	56	-	50	47	41	-	47	46	42
G_14	SW(c)	61	46	54	49	-	51	-	58	51	50	51	53	31	-	-	42	-	50	52	51	54	-	-	-	-	56	-	48	47	41	-	46	46	42
G_14	SW(n)	60	46	54	48	-	51	-	58	51	49	51	53	31	-	-	42	-	50	52	50	53	-	-	-	-	56	-	48	47	41	-	46	46	42
G_14	SW(s)	61	46	55	49	-	51	-	59	52	51	52	54	31	-	-	43	-	51	53	52	54	-	-	-	-	57	-	50	48	42	-	47	47	42
H_15	NE	52	44	33	39	-	40	41	52	45	49	44	46	49	33	46	31	-	-	-	-	30	-	-	-	-	35	-	-	-	38	34	38	-	-
H_15	SW	49	36	44	37	-	37	30	42	40	44	38	38	36	-	33	36	-	40	42	40	44	-	-	-	-	46	-	40	37	33	-	40	36	31
H_16	NE	51	43	34	39	-	39	41	51	44	48	43	45	49	32	45	31	-	30	31	-	32	-	-	-	-	37	-	30	-	37	33	37	-	-
H_16	SE(n)	52	41	41	41	30	41	38	51	45	50	45	46	45	32	43	37	-	37	39	37	41	-	-	-	-	44	30	37	34	38	32	41	32	-
H_16	SE(s)	52	41	41	41	-	41	38	51	45	51	45	47	45	32	43	37	-	38	40	38	41	-	-	-	-	44	-	37	35	38	33	41	33	-
H_16	SW	50	36	43	38	-	38	-	40	41	50	39	40	32	-	32	37	-	39	41	39	41	-	-	-	-	45	-	39	36	34	-	40	35	30
H_17	NE	52	44	33	39	-	40	41	52	44	49	44	46	48	34	46	31	-	-	-	-	30	-	-	-	-	35	-	31	-	38	33	37	-	-
H_17	SW	49	37	44	39	-	39	31	43	42	49	40	41	36	-	34	37	-	40	42	40	44	-	-	-	-	46	30	39	37	35	-	41	36	32
H_18	NE	51	41	35	39	-	39	39	50	44	49	43	45	46	31	43	33	-	30	32	-	33	-	-	-	-	37	-	32	-	37	31	38	-	-
H_18	SE	54	43	43	42	-	42	41	53	46	52	46	48	48	34	45	38	-	39	41	38	41	-	-	-	-	46	-	39	36	39	34	42	35	30
H_18	SW	50	36	43	39	-	39	30	41	42	50	40	40	32	-	32	37	-	39	41	39	42	-	-	-	-	46	-	39	37	35	-	40	35	30
H_19	NW	53	44	32	39	-	40	41	53	44	49	44	47	48	34	45	30	-	-	-	-	-	-	-	-	-	34	-	-	-	38	33	36	-	-
H_19	SE	54	45	40	42	-	42	41	53	47	52	46	48	48	35	45	37	-	38	39	38	41	-	-	-	-	44	-	36	34	40	34	41	32	-
H_20	SE	54	44	41	42	-	43	41	53	47	53	46	49	48	35	46	37	-	38	39	38	41	-	-	-	-	44	-	36	35	40	34	42	33	-
H_20	SW(e)	54	43	44	43	30	43	39	52	47	53	46	49	46	35	44	38	-	40	42	40	44	-	-	-	-	46	30	39	37	40	34	43	36	32
H_20	SW(w)	53	43	44	41	-	41	38	51	45	50	44	46	45	33	43	37	-	40	42	40	44	-	-	-	-	46	-	39	37	38	32	42	36	32
H_20	W	46	34	42	33	-	33	-	39	34	39	31	32	34	-	30	31	-	38	39	38	41	-	-	-	-	44	-	36	35	-	-	37	33	30
I_21	NE	58	46	-	47	38	48	41	58	53	58	51	53	36	33	46	45	32	-	-	-	-	-	-	-	-	39	34	44	-	43	-	47	-	-
I_21	NW	58	45	39	48	36	49	40	57	53	57	51	53	36	33	45	46	-	37	38	35	39	-	-	-	-	42	-	43	34	44	-	47	-	-

ID	Façade	Max Day	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2	6.3 night	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	7.1	8.1	9.1	10.1	10.2	11.1
I_22	NE	57	45	33	46	38	47	39	56	52	57	50	52	35	33	45	45	32	-	-	-	-	-	-	-	-	40	35	46	-	42	-	47	-	-
I_22	NW	57	45	41	47	37	49	40	57	53	57	51	53	36	33	45	45	-	38	39	36	40	-	-	-	-	44	-	43	34	43	-	47	32	-
J_23	NE	47	33	30	35	-	35	32	46	39	45	39	40	39	-	35	-	-	-	-	-	-	-	-	-	-	34	31	31	-	30	-	35	-	-
J_23	NW	49	37	35	35	-	36	35	48	39	45	39	40	42	-	39	-	-	30	32	-	33	-	-	-	-	36	-	31	-	32	-	34	-	-
J_23	SE	57	47	36	45	30	46	45	57	51	55	50	52	51	41	48	39	-	33	35	33	35	-	-	-	-	40	33	36	30	42	39	44	-	-
J_23	SW	57	47	36	44	30	45	45	56	50	54	49	51	50	40	48	38	-	33	35	33	35	-	-	-	-	39	32	36	30	42	38	43	-	-
K_24	W	56	46	38	45	34	45	43	56	50	54	49	52	50	38	48	41	33	34	36	34	38	-	-	-	-	42	38	40	31	41	37	44	30	-
L_25	N	59	48	33	48	-	48	46	59	53	56	52	54	53	40	51	42	-	-	31	-	32	-	-	-	-	35	-	31	-	44	41	46	-	-
L_25	S(e)	54	45	41	46	43	47	40	51	49	54	47	49	33	42	39	46	36	37	39	36	40	-	-	30	32	45	40	49	34	42	-	49	32	-
L_25	S(w)	56	46	39	47	43	47	40	54	50	54	48	50	38	42	44	46	36	35	36	34	38	-	-	-	32	45	40	49	33	43	-	49	30	-
L_25	W(n)	60	48	40	49	-	49	46	59	54	55	53	55	53	42	51	43	-	37	39	36	41	-	-	-	-	43	-	41	34	45	40	48	32	-
L_25	W(s)	59	48	39	49	40	49	45	59	53	56	52	54	52	41	50	45	-	34	37	33	38	-	-	-	-	39	31	47	32	45	40	48	30	-
L_26	N(n)	56	43	33	45	-	44	42	55	50	53	48	50	49	35	47	37	-	-	30	-	31	-	-	-	-	35	-	30	-	40	37	42	-	-
L_26	N(s)	58	47	35	48	-	48	45	58	53	56	52	53	52	40	49	41	-	30	32	-	33	-	-	-	-	36	-	31	-	43	41	45	-	-
L_26	S	49	39	35	35	38	40	34	38	38	49	32	32	-	35	-	42	36	31	32	-	33	-	-	-	31	46	40	45	-	35	-	44	-	-
L_26	W(n)	58	44	40	48	-	47	43	58	52	54	51	53	50	37	49	39	-	37	39	36	40	-	-	-	-	43	-	40	34	43	38	46	32	-
L_26	W(s)	59	48	38	48	-	48	46	58	53	55	52	54	53	41	50	42	-	35	37	34	38	-	-	-	-	41	-	37	32	44	41	45	30	-
L_27	NE	56	47	33	44	-	45	46	56	50	53	48	50	53	38	50	39	-	-	-	-	30	-	-	-	-	35	-	30	-	41	38	42	-	-
L_27	NW	59	49	38	48	-	48	48	59	53	55	51	53	54	41	52	42	-	35	37	34	37	-	-	-	-	41	-	39	32	44	40	46	31	-
L_27	SW	57	46	39	47	31	46	44	56	51	53	50	51	49	40	48	40	30	36	38	36	39	-	-	-	-	42	33	39	34	42	37	46	32	-
M_28	E(n)	54	36	-	41	34	44	33	50	46	54	44	45	36	36	-	41	35	-	-	-	-	-	-	-	-	41	39	43	-	38	-	42	-	-
M_28	E(s)	62	47	-	49	45	52	40	61	55	60	53	56	-	51	-	51	38	-	-	-	-	-	-	-	-	47	44	54	-	47	-	48	-	-
M_28	N	53	39	35	38	36	44	35	49	45	53	44	44	39	35	40	42	-	31	33	30	34	-	-	-	-	38	32	43	-	41	-	45	-	-
M_28	SE	65	50	31	52	48	55	43	64	58	65	56	58	-	55	-	54	41	-	-	-	-	-	-	30	31	49	47	57	-	51	-	51	-	-
M_28	SW(n)	65	51	35	49	51	55	45	63	58	65	56	59	38	54	40	53	32	31	33	31	34	-	-	-	-	39	38	56	-	51	-	51	-	-
M_28	SW(s)	65	52	36	51	51	56	45	64	59	65	57	59	-	55	39	54	36	31	33	31	34	-	-	-	-	45	43	56	-	52	-	52	-	-
M_29	E	59	44	30	49	31	50	35	57	53	57	51	53	-	35	-	50	40	-	-	-	-	-	-	-	30	50	46	55	-	46	-	48	-	-
M_29	S	64	50	34	52	48	55	42	63	59	64	56	58	-	54	35	53	40	-	31	-	31	-	-	-	30	50	46	57	-	51	-	52	-	-
M_29	W(n)	64	50	35	49	50	54	43	63	58	64	55	58	38	54	39	52	-	31	33	31	34	-	-	-	-	42	34	55	30	50	-	50	-	-
M_29	W(s)	63	50	35	49	47	54	42	61	58	63	55	57	37	54	38	52	35	31	33	30	33	-	-	-	-	47	44	55	-	50	-	51	-	-
M_30	NE	45	36	33	34	-	35	35	42	37	44	36	36	41	31	35	32	31	-	30	-	31	-	-	-	-	40	34	35	-	-	31	39	-	-
M_30	NW	53	42	35	36	43	45	39	50	48	53	46	48	43	36	40	41	-	33	35	32	36	-	-	-	-	40	-	48	31	40	30	44	-	-
M_30	SE	57	45	31	46	45	49	39	56	52	57	51	52	-	41	-	48	39	-	-	-	-	-	-	31	33	50	44	51	-	45	-	46	-	-
M_30	SW	58	45	36	45	45	49	39	56	52	58	51	52	36	42	38	47	37	33	35	32	36	-	-	30	32	48	42	51	31	44	-	47	-	-
N_31	NE(c)	74	56	30	46	52	60	57	71	62	70	62	66	35	38	37	60	33	-	-	-	-	-	-	-	-	40	37	70	-	59	-	53	-	-

ID	Façade	Max Day	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2	6.3 night	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	7.1	8.1	9.1	10.1	10.2	11.1
N_31	NE(n)	77	62	-	45	57	62	61	75	64	71	66	69	38	42	40	61	-	-	-	-	-	-	-	-	-	35	-	72	-	61	-	56	-	-
N_31	NE(s)	67	52	30	48	52	55	45	62	56	67	56	58	-	38	30	53	38	-	-	-	-	-	-	-	30	46	42	54	-	56	-	48	-	-
N_31	NW(e)	76	62	35	46	57	62	60	74	64	71	65	69	38	42	42	60	-	32	34	31	34	-	-	-	-	38	-	71	-	61	-	56	-	-
N_31	NW(w)	75	60	36	46	57	61	59	73	64	71	64	68	38	41	42	60	-	33	35	32	35	-	-	-	-	39	-	71	30	60	-	55	-	-
N_31	SE(e)	67	51	30	48	51	54	43	61	55	67	54	57	-	36	-	53	37	-	-	-	-	-	-	-	-	45	41	53	-	55	-	47	-	-
N_31	SE(w)	67	50	-	47	51	54	42	60	54	67	53	56	-	36	-	51	34	-	-	-	-	-	-	-	-	43	39	50	-	53	-	46	-	-
N_31	W	67	48	33	44	47	55	44	64	59	67	57	60	33	36	41	54	-	-	32	-	33	-	-	-	-	36	-	61	-	55	-	51	-	-
N_32	NE(n)	74	59	-	46	58	61	57	72	64	71	63	67	36	41	34	60	32	-	-	-	-	-	-	-	-	41	35	68	-	59	-	55	-	-
N_32	NE(s)	71	56	31	49	55	59	52	69	62	71	61	64	35	43	33	58	37	-	-	-	-	-	-	-	-	46	40	66	-	57	-	54	-	-
N_32	NW	72	56	37	47	55	60	54	70	63	72	62	65	38	42	44	58	-	33	38	35	39	-	-	-	-	39	-	66	33	58	-	55	-	-
N_32	SE	66	51	31	48	52	54	43	60	55	66	54	57	-	37	-	52	37	-	-	-	-	-	-	-	30	46	40	52	-	52	-	47	-	-
N_32	SW(c)	57	40	36	41	39	46	36	53	51	57	49	50	32	31	40	41	-	33	38	35	40	-	-	-	-	39	-	46	33	43	-	45	-	-
N_32	SW(n)	64	43	37	43	39	51	39	57	55	64	54	56	35	33	44	46	-	33	38	35	39	-	-	-	-	40	-	49	34	49	-	50	-	-
N_32	SW(s)	57	43	37	43	39	46	37	53	50	57	49	50	31	30	43	42	-	33	38	35	40	-	-	-	-	40	-	46	34	43	-	47	-	-
O_33	E	65	46	32	51	-	54	35	63	57	65	54	57	-	31	-	52	41	-	-	-	-	-	-	30	32	53	46	55	-	48	-	49	-	-
O_33	N	51	36	32	39	30	41	33	49	43	51	42	43	38	39	36	38	33	-	32	-	33	-	-	-	-	43	36	41	-	36	-	41	-	-
O_33	S	69	51	34	54	45	57	39	66	60	69	58	60	-	45	35	55	43	31	35	32	37	-	-	30	32	57	46	60	31	52	-	53	-	-
O_33	W	67	49	35	51	44	55	37	64	58	67	56	58	38	46	38	54	32	33	36	33	37	-	-	-	-	45	37	59	31	51	-	51	-	-
O_34	E	54	42	31	44	-	45	37	48	47	48	48	49	-	34	-	44	42	-	-	-	-	-	-	-	31	51	48	49	-	38	-	45	-	-
O_34	N	48	33	30	37	-	38	31	45	41	44	39	40	37	35	33	36	30	-	-	-	-	-	-	-	-	42	35	36	-	34	-	39	-	-
O_34	S	58	46	33	48	41	50	38	56	53	55	52	54	-	43	32	49	42	-	-	-	-	-	-	30	31	52	48	49	-	45	-	48	-	-
O_34	W	56	42	31	46	40	48	35	55	51	53	49	52	36	43	34	47	31	-	30	-	31	-	-	-	-	41	37	45	-	44	-	46	-	-
P_35	E	61	47	32	48	-	49	40	59	53	46	51	53	-	33	-	44	45	-	-	-	-	30	30	31	32	56	51	53	-	42	-	47	-	-
P_35	N(c)	53	36	30	40	30	43	30	50	46	53	46	47	31	36	32	42	32	-	30	-	31	-	-	-	-	45	37	44	-	37	-	43	-	-
P_35	N(e)	53	38	-	40	-	42	34	49	45	47	45	46	-	-	-	35	38	-	-	-	-	-	-	-	-	46	48	50	-	35	-	40	-	-
P_35	N(w)	56	41	31	42	36	44	35	53	46	50	46	48	36	36	33	41	38	-	30	-	30	-	-	-	-	51	45	47	-	37	-	43	-	-
P_35	S	63	47	33	50	37	52	40	61	55	57	54	56	-	37	31	50	44	-	30	-	30	30	30	31	32	57	51	52	-	45	-	50	-	-
P_35	W	61	43	31	47	37	50	34	59	53	58	52	55	35	37	34	49	37	-	32	-	32	-	-	-	-	54	44	49	-	43	-	48	-	-
P_36	NE	52	38	30	41	-	41	35	49	44	47	43	44	34	34	30	36	40	-	-	-	-	-	-	-	30	47	42	44	-	36	-	41	-	-
P_36	NW	59	40	33	44	37	47	33	53	50	59	49	51	36	38	34	47	-	-	35	32	36	-	-	-	-	44	34	50	30	41	-	47	-	-
P_36	SE	64	48	32	50	-	52	40	62	55	51	54	56	-	33	-	48	45	-	-	-	-	30	-	31	32	59	51	53	-	44	-	49	-	-
P_36	SW	64	48	34	50	39	53	40	62	56	60	55	57	35	36	34	50	44	-	32	-	33	-	-	-	-	59	51	53	-	46	-	50	-	-
Q_37	NE	52	37	30	41	-	40	34	52	44	43	44	44	31	-	-	31	37	-	-	-	-	-	-	-	-	41	38	39	-	36	-	39	-	-
Q_37	NW(n)	53	37	32	42	32	41	34	52	45	46	44	44	32	32	32	40	39	-	31	-	32	-	-	-	-	46	42	44	-	37	-	43	-	-
Q_37	NW(s)	60	46	33	49	34	49	43	59	53	54	52	52	32	40	32	44	47	-	32	-	33	-	-	-	-	50	51	52	-	44	-	49	-	-

ID	Façade	Max Day	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2	6.3 night	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	7.1	8.1	9.1	10.1	10.2	11.1
Q_37	SE(c)	64	49	33	52	32	52	47	63	56	57	55	55	-	42	-	41	49	-	-	-	31	-	-	31	33	46	54	56	-	51	-	50	-	-
Q_37	SE(n)	60	50	33	49	-	48	44	59	51	53	54	54	-	40	-	39	46	-	-	-	31	30	30	33	35	42	52	49	-	45	-	47	-	-
Q_37	SE(s)	67	51	33	55	30	54	50	66	60	56	58	58	32	42	30	41	52	-	30	-	30	-	-	31	34	51	54	55	-	55	-	53	-	-
Q_37	SW(c)	66	52	36	55	34	53	50	66	59	56	58	58	33	42	33	45	52	-	32	-	33	31	31	35	36	53	54	55	-	54	-	53	-	-
Q_37	SW(n)	66	52	35	55	34	53	50	66	59	56	58	58	31	42	32	45	51	-	32	-	33	31	31	35	37	53	54	55	-	53	-	53	-	-
Q_37	SW(s)	67	51	34	55	30	54	50	66	60	56	58	58	33	42	30	43	51	-	32	-	33	30	-	32	34	51	54	55	-	55	-	53	-	-
Q_38	NE	59	47	33	46	-	45	41	58	49	46	50	50	-	30	-	38	44	-	-	-	-	30	30	32	34	46	39	40	-	44	-	45	-	-
Q_38	NW	55	40	33	44	31	43	36	54	46	48	46	46	33	33	32	39	41	-	31	-	32	-	-	-	-	46	46	47	-	40	-	43	-	-
Q_38	SE	64	53	35	52	-	50	47	63	54	52	55	55	-	34	-	41	49	-	-	-	-	32	32	35	36	47	51	49	-	51	-	49	-	-
Q_38	SW(n)	58	47	33	49	31	48	44	58	52	51	51	51	33	42	31	39	48	-	30	-	32	-	-	30	32	48	53	49	-	46	-	47	-	-
Q_38	SW(s)	64	52	35	51	30	51	46	63	54	56	55	55	31	38	-	44	47	-	30	-	32	31	31	36	39	52	53	55	-	49	-	50	-	-
Q_39	NE	61	50	33	47	-	46	43	60	49	47	54	54	32	31	-	35	41	-	-	-	-	31	31	32	34	42	37	42	-	43	-	46	-	-
Q_39	NW(n)	57	44	34	44	34	45	36	53	45	52	45	45	35	33	33	45	40	30	33	30	35	-	-	-	-	55	46	52	-	43	-	46	-	-
Q_39	NW(s)	62	48	35	50	34	50	44	60	54	54	53	53	34	40	33	45	48	30	33	30	34	-	-	-	-	56	51	53	-	53	-	49	-	-
Q_39	SE	69	57	37	56	-	55	52	69	60	55	61	61	-	40	-	43	53	-	-	-	-	36	36	37	40	49	51	52	-	59	-	54	-	-
Q_39	SW	69	57	38	57	34	56	52	69	61	57	61	61	32	43	32	47	54	30	32	30	34	35	35	37	40	57	54	55	-	60	-	55	30	-
Q_40	N	60	47	32	48	31	48	42	58	50	54	52	52	31	38	30	43	45	-	30	-	31	-	-	-	-	52	51	52	-	54	-	47	-	-
Q_40	NE(e)	59	48	34	46	-	44	41	58	46	51	53	53	-	34	-	41	39	-	-	-	-	32	32	34	36	40	35	47	-	44	-	45	-	-
Q_40	NE(w)	59	48	33	45	-	44	41	58	46	51	53	53	32	33	-	41	38	-	-	-	-	31	32	34	36	43	36	47	-	45	-	45	-	-
Q_40	NW(c)	58	46	34	45	33	44	39	57	47	47	51	51	33	32	32	42	40	-	32	-	34	-	-	-	-	50	42	44	-	52	-	46	-	-
Q_40	NW(n)	62	53	35	48	34	48	46	61	49	51	55	55	33	32	32	44	38	31	33	30	35	-	-	-	-	52	44	52	-	54	-	49	-	-
Q_40	NW(s)	67	52	34	54	33	53	49	66	59	54	59	59	33	40	32	45	51	-	32	-	34	-	-	-	30	53	51	52	-	58	-	52	-	-
Q_40	SE(n)	58	49	33	45	-	44	40	57	46	51	51	51	-	33	-	41	39	-	-	-	-	31	31	33	34	41	36	47	-	45	-	44	-	-
Q_40	SE(s)	59	50	34	46	-	45	41	58	47	49	53	53	-	33	-	39	41	-	-	-	-	31	31	33	35	41	38	43	-	44	-	45	-	-
Q_40	SW(c)	73	63	38	60	31	59	56	73	63	58	66	66	32	43	30	47	55	-	30	-	31	36	36	38	40	55	54	55	-	61	-	58	-	-
Q_40	SW(e)	74	63	37	60	33	59	56	74	63	58	66	66	33	43	33	47	56	-	32	30	34	35	34	36	38	54	54	55	-	61	-	58	-	-
Q_40	SW(w)	71	60	37	57	33	56	53	70	60	57	63	63	32	41	32	47	53	-	32	-	34	34	34	35	38	55	54	55	-	60	-	55	-	-
Q_41	NE	58	48	32	46	-	44	41	58	47	47	52	52	-	33	-	38	39	-	-	-	-	-	-	30	32	40	36	41	-	43	-	44	-	-
Q_41	SE(e)	73	64	38	60	-	58	56	73	62	56	67	67	-	42	-	46	54	-	-	-	-	36	36	38	40	42	50	50	-	56	-	58	-	-
Q_41	SE(w)	77	67	38	62	31	62	58	76	65	56	69	69	33	42	30	47	58	-	30	-	31	36	36	38	40	50	51	52	-	61	-	60	30	-
Q_41	SW(e)	76	66	36	61	31	61	57	75	64	57	68	68	-	43	30	47	57	-	31	-	32	33	32	34	36	52	54	54	-	61	-	59	-	-
Q_41	SW(w)	75	65	37	60	33	60	57	75	63	57	68	68	33	43	32	48	56	-	32	-	34	35	34	36	38	53	54	55	-	62	-	58	-	-
Q_42	NW	64	56	34	53	31	53	47	64	58	52	57	57	31	40	30	43	51	-	31	-	32	-	-	-	33	49	52	51	-	52	-	51	-	-
Q_42	SE	61	48	38	50	-	51	44	50	52	61	49	49	-	43	-	51	49	-	-	-	-	38	38	40	41	30	40	55	-	47	-	51	31	-
Q_42	SW(e)	65	55	38	55	32	54	49	64	59	61	57	57	-	44	-	51	53	-	-	-	-	38	38	40	42	49	51	56	-	52	-	54	-	-

ID	Façade	Max Day	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2	6.3 night	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	7.1	8.1	9.1	10.1	10.2	11.1
R_43	NE	64	50	34	53	31	53	47	63	57	61	56	58	30	40	-	48	53	-	-	-	-	32	33	34	35	55	58	55	-	48	-	51	-	-
R_43	NW(n)	64	51	33	53	32	53	47	64	57	61	56	59	32	40	30	50	53	-	-	-	30	-	-	-	-	55	59	54	-	49	-	51	-	-
R_43	NW(s)	64	50	31	53	30	53	46	63	57	60	56	59	31	40	30	50	52	-	-	-	-	-	-	-	-	55	58	54	-	48	-	51	-	-
R_43	SE	54	43	36	49	-	48	40	52	53	49	50	50	-	36	-	39	50	-	-	-	-	34	35	36	37	42	47	43	-	43	-	48	-	-
R_43	SW	58	44	36	47	-	47	39	56	50	57	50	53	-	34	-	41	47	-	-	-	-	34	34	35	37	51	51	47	-	43	-	46	-	-
R_44	NE	64	50	32	52	-	53	44	61	56	64	55	57	30	41	-	48	52	-	-	-	-	-	30	32	32	56	54	53	-	49	-	50	-	-
R_44	NW	63	49	33	51	-	52	43	60	55	63	54	56	30	38	30	46	50	-	-	-	30	-	-	-	-	55	53	55	-	47	-	50	-	-
R_44	SE	57	45	33	50	-	49	40	54	52	52	51	52	-	36	30	46	49	-	-	-	-	-	-	-	30	52	47	44	-	44	-	48	-	-
R_44	SW	56	43	33	45	-	45	39	54	49	56	48	50	-	34	30	41	44	-	30	-	31	-	-	-	-	47	51	49	-	41	-	44	-	-
R_45	NE(c)	62	49	36	51	-	51	46	61	56	58	55	58	-	40	-	44	53	-	-	-	-	35	35	36	37	51	58	54	-	47	-	50	-	-
R_45	NE(n)	64	51	36	53	31	53	46	62	57	62	56	58	-	40	-	48	53	-	-	-	-	33	34	35	37	59	57	53	-	48	-	51	-	-
R_45	NE(s)	63	50	37	52	-	52	46	61	56	61	55	57	-	40	-	47	53	-	-	-	-	36	36	37	39	56	57	53	-	47	-	50	-	-
R_45	NW	64	50	33	52	34	53	45	62	56	63	55	57	32	37	30	48	50	-	30	-	31	-	-	-	-	59	57	53	-	48	-	49	-	-
R_45	SE(n)	59	48	35	52	-	51	44	57	55	56	54	55	-	38	-	45	52	-	-	-	-	34	34	36	36	52	53	49	-	46	-	50	-	-
R_45	SE(s)	56	45	37	48	-	47	43	55	52	50	51	52	-	39	-	42	50	-	-	-	-	36	36	37	39	46	52	46	-	42	-	47	-	-
R_45	SW	51	39	35	43	32	42	35	48	46	48	44	44	-	33	30	38	41	-	30	-	31	32	30	32	33	46	39	43	-	36	-	42	-	-
S_46	NE	73	58	-	51	-	57	43	62	62	73	55	58	-	36	-	52	38	-	-	-	-	31	32	34	31	-	-	50	-	54	-	50	-	-
S_46	NW(n)	72	56	30	53	-	60	52	69	62	69	62	65	-	48	-	62	51	-	-	-	-	-	-	-	30	45	45	69	-	60	-	55	-	-
S_46	NW(s)	75	59	31	54	30	62	56	73	65	71	65	68	-	50	-	64	53	-	-	-	-	-	-	-	-	46	47	72	-	62	-	58	-	-
S_46	SE	76	60	39	53	-	63	55	74	66	74	65	69	-	49	-	61	44	-	-	-	-	37	37	39	40	32	31	70	-	58	-	58	-	-
S_46	SW(n)	76	59	31	54	-	63	56	74	65	70	65	69	-	50	-	65	52	-	-	-	-	-	-	-	31	45	45	72	-	62	-	58	-	-
S_46	SW(s)	77	59	37	55	-	64	56	75	67	72	67	70	-	50	-	66	52	-	-	-	-	35	34	36	37	44	45	72	-	62	-	59	-	-
S_47	NE	71	66	31	46	-	58	57	66	66	71	59	62	-	44	-	53	40	-	-	-	-	-	-	32	32	33	35	49	-	57	-	45	-	-
S_47	NW	74	57	-	53	-	60	53	72	63	61	63	66	30	44	-	58	51	-	-	-	-	-	-	-	-	40	41	68	-	53	-	56	-	-
S_47	SW	76	55	37	54	-	63	51	74	65	76	65	68	-	48	-	59	50	-	-	-	-	35	35	37	38	39	40	67	-	59	-	58	30	-
S_48	NE	73	66	31	50	-	59	57	66	66	73	60	63	-	44	-	53	37	-	-	-	-	31	-	34	33	32	34	46	-	58	-	48	-	-
S_48	SE(n)	78	63	39	53	-	63	57	72	67	78	64	67	-	46	-	56	39	-	-	-	-	37	37	39	40	31	32	60	-	62	-	56	30	-
S_48	SE(s)	79	59	39	54	-	64	56	73	67	79	65	68	-	47	-	57	42	-	-	-	-	37	37	39	40	31	32	62	-	62	-	57	30	-
S_48	SW(n)	79	55	39	54	-	64	53	73	66	79	65	68	-	45	-	55	41	-	-	-	-	37	37	39	40	31	33	59	-	62	-	58	31	-
S_48	SW(s)	76	57	37	54	-	63	54	74	66	76	65	68	-	48	-	60	50	-	-	-	-	35	35	37	38	39	42	67	-	60	-	58	-	-
S_49	NE	65	54	34	48	-	53	45	61	57	65	54	56	-	39	-	45	35	-	-	-	-	34	34	37	37	-	30	44	-	49	-	48	-	-
S_49	NW(c)	52	43	-	43	-	43	39	51	46	52	44	45	30	32	-	38	41	-	-	-	-	-	-	-	30	37	40	43	-	37	-	42	-	-
S_49	NW(e)	53	44	30	44	-	43	40	51	47	53	45	45	30	33	-	39	44	-	-	-	-	-	-	-	31	43	42	43	-	38	-	44	-	-
S_49	NW(s)	66	51	30	53	-	57	46	63	59	64	58	61	30	42	-	54	53	-	-	-	-	-	-	-	-	46	47	61	-	51	-	54	-	-
S_49	SE(e)	70	61	38	52	-	59	54	68	64	69	61	64	-	47	-	56	46	-	-	-	-	37	37	38	40	32	33	64	-	55	-	53	-	-

ID	Façade	Max Day	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2	6.3 night	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	7.1	8.1	9.1	10.1	10.2	11.1
S_49	SE(n)	70	62	39	52	-	58	53	65	64	70	59	61	-	43	-	51	35	-	-	-	-	38	39	40	41	-	35	54	-	54	-	51	32	-
S_49	SE(s)	70	61	38	52	-	59	54	68	64	70	61	64	-	45	-	54	45	-	-	-	-	37	37	39	40	32	34	63	-	55	-	53	30	-
S_49	SE(w)	70	61	39	53	-	59	54	68	64	70	61	64	-	44	-	55	47	-	-	-	-	38	38	40	41	30	-	63	-	55	-	54	31	-
S_49	SW(c)	70	60	38	53	-	59	53	68	63	69	62	64	-	47	-	56	50	-	-	-	-	37	37	39	40	43	43	64	-	55	-	54	30	-
S_49	SW(e)	70	61	39	52	-	59	53	69	64	70	62	65	-	47	-	56	46	-	-	-	-	38	37	39	41	32	32	64	-	55	-	54	30	-
S_49	SW(w)	69	58	38	53	-	59	52	68	62	68	61	64	-	47	-	56	51	-	-	-	-	36	36	40	40	43	45	64	-	55	-	54	-	-
S_50	E	66	53	36	46	-	54	48	64	58	62	57	60	-	39	-	48	36	-	-	-	-	35	34	36	38	32	-	61	-	49	-	49	-	-
S_50	N	59	52	31	44	-	49	48	56	55	59	51	53	-	38	-	43	36	-	-	-	-	30	-	32	32	33	30	47	-	45	-	42	-	-
S_50	S	66	53	33	48	-	53	45	62	58	66	55	57	-	38	-	46	34	-	-	-	-	34	36	37	40	-	-	52	-	49	-	48	-	-
S_50	W	54	48	30	44	-	46	45	53	52	54	49	50	-	37	-	41	43	-	-	-	-	-	-	-	-	37	37	41	-	42	-	43	-	-
S_51	SE	63	54	37	48	-	53	50	60	58	63	55	57	-	44	-	47	40	-	-	-	-	35	35	38	41	31	30	53	-	49	-	48	-	-
S_51	SW	63	53	36	49	-	53	49	60	57	63	55	58	-	43	-	48	46	-	-	-	-	35	34	38	40	43	42	52	-	49	-	49	-	-
T_52	NE(n)	75	65	32	57	-	63	58	75	68	70	66	69	-	62	-	61	59	-	-	-	-	-	-	30	30	34	38	62	-	57	-	55	-	-
T_52	NE(s)	79	64	37	55	-	64	66	79	71	68	69	73	-	61	-	60	56	-	-	-	-	36	36	37	38	34	36	62	-	57	-	54	-	-
T_52	NW(n)	73	63	30	56	-	60	53	72	66	69	63	66	-	59	-	59	58	-	-	-	-	-	-	-	-	46	46	60	-	56	-	53	-	-
T_52	NW(s)	75	66	30	57	-	63	55	74	68	70	65	69	-	63	-	62	59	-	-	-	-	-	-	-	-	38	42	63	-	56	-	55	-	-
T_52	SE	78	60	40	49	-	62	67	78	69	61	68	72	-	46	-	52	41	-	-	-	-	38	38	39	40	32	33	53	-	56	-	48	30	-
T_53	NW	71	63	31	56	-	60	47	71	65	68	62	65	-	59	-	59	58	-	-	-	-	-	-	-	-	45	46	60	-	56	-	53	-	-
T_53	SE	76	60	40	48	-	60	65	76	68	60	66	70	-	41	-	50	40	-	-	-	-	38	38	39	40	32	34	47	-	55	-	47	30	-
T_53	SW	67	55	37	49	-	52	55	67	59	62	55	58	-	38	-	44	51	-	-	-	-	35	36	37	38	45	46	44	-	51	-	47	-	-
T_54	NE	56	42	39	46	-	46	38	53	49	56	48	50	-	36	-	43	45	-	-	-	-	37	38	39	40	38	41	46	-	42	-	44	31	-
U_55	E	52	44	32	37	-	41	40	52	45	49	45	48	-	33	-	32	-	-	-	-	-	32	32	34	35	-	-	31	-	39	-	36	-	-
U_55	N(e)	56	47	37	44	-	47	43	55	52	54	48	50	-	41	-	40	37	-	-	-	-	35	35	36	38	30	35	43	-	43	-	42	-	-
U_55	N(w)	60	50	39	47	-	50	46	59	54	58	51	53	-	46	-	44	40	-	-	-	-	39	38	41	43	37	39	44	-	46	-	45	32	-
U_55	W	59	49	39	45	-	49	45	58	54	58	50	52	-	45	-	43	38	-	-	-	-	38	38	41	43	39	37	44	-	45	-	44	32	-
V_56	NE(n)	55	45	47	45	-	46	41	53	49	54	47	49	-	36	-	44	42	-	-	-	-	44	45	46	48	39	40	48	-	40	-	46	40	34
V_56	NE(s)	56	45	48	47	-	47	42	54	51	55	48	50	-	37	-	44	42	-	-	-	-	46	47	48	49	39	40	48	-	42	-	46	40	35
V_56	NW	49	41	37	42	-	40	38	45	44	45	42	42	-	36	-	42	43	-	-	-	30	33	33	35	36	41	43	44	-	36	-	44	-	-
V_56	SE(n)	58	46	50	46	-	48	43	56	51	58	50	52	-	32	-	43	-	-	-	-	-	48	48	50	51	-	-	49	-	42	-	45	42	37
V_56	SE(s)	58	46	50	46	-	48	43	56	51	58	50	52	-	32	-	43	-	-	-	-	-	48	48	50	51	-	-	50	-	42	-	45	42	38
W_57	N	59	48	38	50	-	50	42	58	54	58	52	54	-	43	-	43	37	-	-	-	-	35	34	37	39	37	37	53	-	45	-	48	-	-
W_57	N	59	48	39	50	-	50	44	58	54	59	52	54	-	43	-	43	38	-	-	-	-	36	36	39	40	37	37	52	-	45	-	49	-	-
W_57	S	60	48	49	48	-	50	43	59	53	60	51	54	-	31	-	47	-	-	-	-	-	50	50	52	53	-	-	53	-	44	-	48	41	37
W_57	W	63	50	48	52	-	52	44	62	56	62	55	58	-	41	-	48	36	-	-	-	-	50	50	52	52	37	35	55	-	47	-	50	41	35
W_58	N	53	42	39	44	-	44	37	52	47	52	46	47	-	36	-	38	32	-	-	-	-	39	37	41	41	35	32	46	-	39	-	42	-	-

ID	Façade	Max Day	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2	6.3 night	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	7.1	8.1	9.1	10.1	10.2	11.1
W_58	S	50	42	42	39	-	40	37	48	43	48	42	45	-	32	-	42	-	-	-	-	-	44	44	46	46	-	-	44	-	35	-	43	33	30
W_58	W	54	45	43	45	-	45	41	53	49	53	47	49	-	36	-	43	33	-	-	-	-	46	47	49	49	35	32	46	-	41	-	45	34	30
W_59	N	53	42	40	43	-	43	37	51	47	51	45	47	-	35	-	39	32	-	-	-	-	41	42	44	44	34	31	47	-	38	-	42	31	-
W_59	S	52	44	43	39	-	41	39	49	45	45	44	47	-	33	-	43	-	-	-	-	-	46	48	49	50	-	-	43	-	37	-	43	34	31
W_59	W(n)	54	43	42	44	-	44	37	52	47	51	46	48	-	36	-	43	33	-	-	-	-	43	43	46	46	34	32	47	-	39	-	44	33	30
W_59	W(s)	53	45	44	43	-	44	41	51	48	48	47	49	-	36	-	43	33	-	-	-	-	48	49	50	51	35	33	42	-	40	-	45	35	32
W_60	N	50	41	38	41	-	42	38	49	45	49	44	46	-	34	-	38	32	-	-	-	-	42	44	44	45	35	32	41	-	37	-	40	-	-
W_60	W	53	44	41	42	-	43	40	51	47	50	45	47	-	34	-	43	32	-	-	-	-	45	46	47	48	34	31	46	-	39	-	43	31	-
X_61	W	55	45	43	46	-	46	40	53	49	54	47	48	-	33	-	45	34	-	-	-	-	46	47	48	50	34	35	49	-	42	-	46	33	30
Y_62	NW	54	43	41	44	-	45	36	52	48	54	45	46	-	30	-	44	-	-	-	-	-	42	43	48	47	32	-	44	-	41	-	44	33	-
Y_62	SW	60	45	43	49	-	50	35	59	55	58	51	53	-	33	-	47	-	-	-	-	-	41	42	47	47	31	-	52	-	45	-	47	33	30
Y_63	SE	57	42	42	46	-	47	34	56	52	56	48	50	-	35	-	44	-	-	-	-	-	32	32	34	35	-	-	50	-	42	-	44	33	-
Y_63	SW	59	46	42	49	-	50	36	58	54	59	50	52	-	35	-	47	-	-	-	-	-	41	40	43	44	-	-	52	-	45	-	47	33	30
Z_64	NW	53	43	49	45	-	46	39	51	47	52	47	48	-	41	-	44	31	-	-	-	-	42	41	44	45	33	32	45	-	40	-	45	40	36
Z_64	SW	65	50	42	54	-	54	49	65	60	54	57	60	-	45	-	46	-	-	-	-	-	40	40	43	43	-	-	44	-	48	-	51	31	30
Z_65	E(n)	59	46	51	48	-	50	43	59	54	57	52	54	-	46	-	43	-	-	-	-	-	-	-	30	30	-	-	44	-	44	-	46	42	38
Z_65	E(s)	63	49	52	52	-	53	46	63	58	59	55	58	-	48	-	47	-	-	-	-	-	-	30	31	31	-	-	45	-	47	-	49	42	40
Z_65	S(n)	63	49	52	52	-	53	46	63	58	59	55	58	-	48	-	47	-	-	-	-	-	-	30	31	31	-	-	45	-	47	-	49	42	40
Z_65	S(s)	66	51	53	55	-	56	49	65	61	60	58	61	-	49	-	48	-	-	-	-	-	-	-	30	31	-	-	45	-	50	-	53	43	41
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Z_66	W	64	49	52	53	-	54	47	63	59	58	56	59	-	47	-	47	-	-	-	-	-	38	38	40	41	30	-	44	-	47	-	51	43	40
Z_67	S	65	51	56	54	-	55	48	64	60	61	57	60	-	50	-	48	-	-	-	-	-	-	-	-	-	-	-	49	-	49	-	52	47	43
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Z_71	S	64	52	57	53	-	55	48	64	59	61	57	59	-	51	-	49	-	-	-	-	-	-	-	30	32	-	-	49	-	49	-	51	48	44
Z_71	W(n)	64	50	55	54	-	55	47	64	59	62	57	59	-	50	-	49	-	-	-	-	-	37	38	39	41	30	-	46	-	49	-	52	47	43
Z_71	W(s)	63	50	55	53	-	54	46	62	58	60	56	58	-	49	-	48	30	-	-	-	-	37	37	39	40	32	30	47	-	48	-	51	47	42
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AA_73	NE(e)	58	46	43	48	-	49	38	57	53	58	50	52	-	37	-	46	-	-	-	-	-	41	40	42	43	30	-	51	-	44	-	46	35	31
AA_73	NE(w)	56	45	44	46	-	47	37	55	51	55	48	50	-	36	-	43	-	-	-	-	-	40	38	41	41	30	-	49	-	43	-	45	35	31

ID	Façade	Max Day	1.1	1.2	1.3	1.4	2.1	2.2	2.3	3.1	3.2	4.1	4.2	4.3	4.4	5.1	5.2	5.3	6.1	6.2	6.3 night	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	7.1	8.1	9.1	10.1	10.2	11.1
AB_74	E(e)	65	51	52	54	-	55	47	63	59	65	57	59	-	50	-	49	-	-	-	-	-	-	-	-	31	-	-	56	-	50	-	51	46	40
AB_74	E(w)	63	50	35	49	-	49	45	45	45	63	44	41	-	43	-	42	-	-	-	-	-	-	-	-	-	-	-	56	-	45	-	46	-	-
AB_74	N(c)	66	51	55	55	-	56	49	65	61	65	58	61	-	51	-	50	-	-	-	-	-	39	40	41	43	31	-	54	-	51	-	53	48	44
AB_74	N(e)	66	52	55	56	-	57	49	66	61	66	59	61	-	51	-	51	-	-	-	-	-	40	40	42	44	32	-	56	-	52	-	53	48	44
AB_74	N(w)	63	50	49	52	-	53	48	62	58	61	55	57	-	46	-	47	-	-	-	-	-	39	40	41	43	31	-	41	-	48	-	50	39	38
AB_74	S(c)	61	49	33	47	-	47	44	46	45	61	44	42	-	42	-	41	-	-	-	-	-	-	-	-	-	-	-	55	-	44	-	45	-	-
AB_74	S(e)	61	50	35	48	-	48	45	46	44	61	43	42	-	41	-	36	-	-	-	-	-	-	-	-	-	-	-	56	-	45	-	45	-	-
AB_74	S(w)	60	47	38	48	-	47	42	47	48	60	46	44	-	41	-	43	-	-	-	-	-	36	37	38	41	-	-	52	-	45	-	46	-	-
AB_74	W(n)	62	49	48	50	-	52	47	61	57	61	53	56	-	46	-	46	-	-	-	-	-	39	40	41	43	31	-	43	-	47	-	49	36	37
AB_74	W(s)	61	49	41	50	-	51	47	61	56	55	53	55	-	43	-	43	-	-	-	-	-	39	39	40	41	31	-	42	-	46	-	48	-	-
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AB_75	N	62	50	46	51	-	52	47	61	56	55	54	56	-	45	-	46	-	-	-	-	-	39	39	41	42	30	-	46	-	48	-	50	39	34
AC_76	N	49	38	38	39	-	38	33	47	43	47	41	43	-	32	-	35	-	-	-	-	-	33	33	34	36	-	-	41	-	33	-	38	-	-
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AC_77	NW	45	34	32	33	-	33	-	44	38	41	37	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	30	-	32	-	-
AD_78	E	61	48	44	47	-	48	43	57	53	61	51	53	-	42	-	40	-	-	-	-	-	-	-	-	31	-	-	53	-	44	-	45	36	32
AD_78	N(e)	60	46	47	48	-	49	41	57	53	60	51	53	-	43	-	43	-	-	-	-	-	35	35	36	38	30	-	51	-	44	-	46	39	35
AD_78	N(w)	56	42	47	46	-	47	37	53	49	56	48	50	-	41	-	42	-	-	-	-	-	35	35	36	38	30	-	44	-	41	-	44	39	36
AD_78	S	52	46	35	40	-	41	41	50	47	50	45	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-	39	-	37	-	-
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AE_79	SE(s)	47	47	30	32	-	32	-	45	38	41	36	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	41	-	-	-	-
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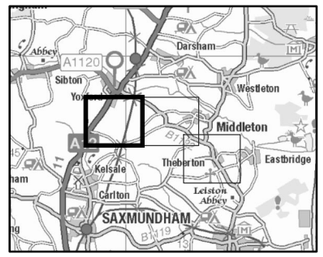
AE_80	NW	62	53	43	45	-	47	48	61	55	54	53	56	-	42	-	39	-	-	-	-	-	32	32	33	35	-	-	51	-	46	-	44	37	31
AE_80	SW(n)	62	53	43	46	-	48	48	62	55	56	53	56	-	42	-	39	-	-	-	-	-	32	32	34	35	-	-	52	-	47	-	45	37	31
AE_80	SW(s)	61	52	41	45	-	46	47	60	54	54	52	55	-	41	-	38	-	-	-	-	-	31	32	33	35	-	-	49	-	45	-	44	34	-

Figure 1. Sizewell Link Road Construction Location Plan

KEY:

- Residential building
- Non-residential building
- Red Line Planning Boundary
- Scheme design



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SIZEWELL LINK ROAD
CONSTRUCTION LOCATION PLAN
SHEET 1 OF 3

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REVISION: 01

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SCALE: 1:7,000 @A3

SCALE BAR:
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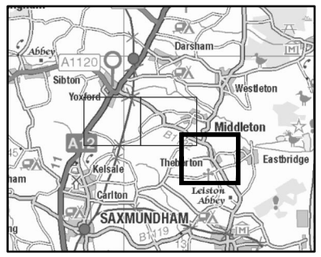

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FIGURE 1	01

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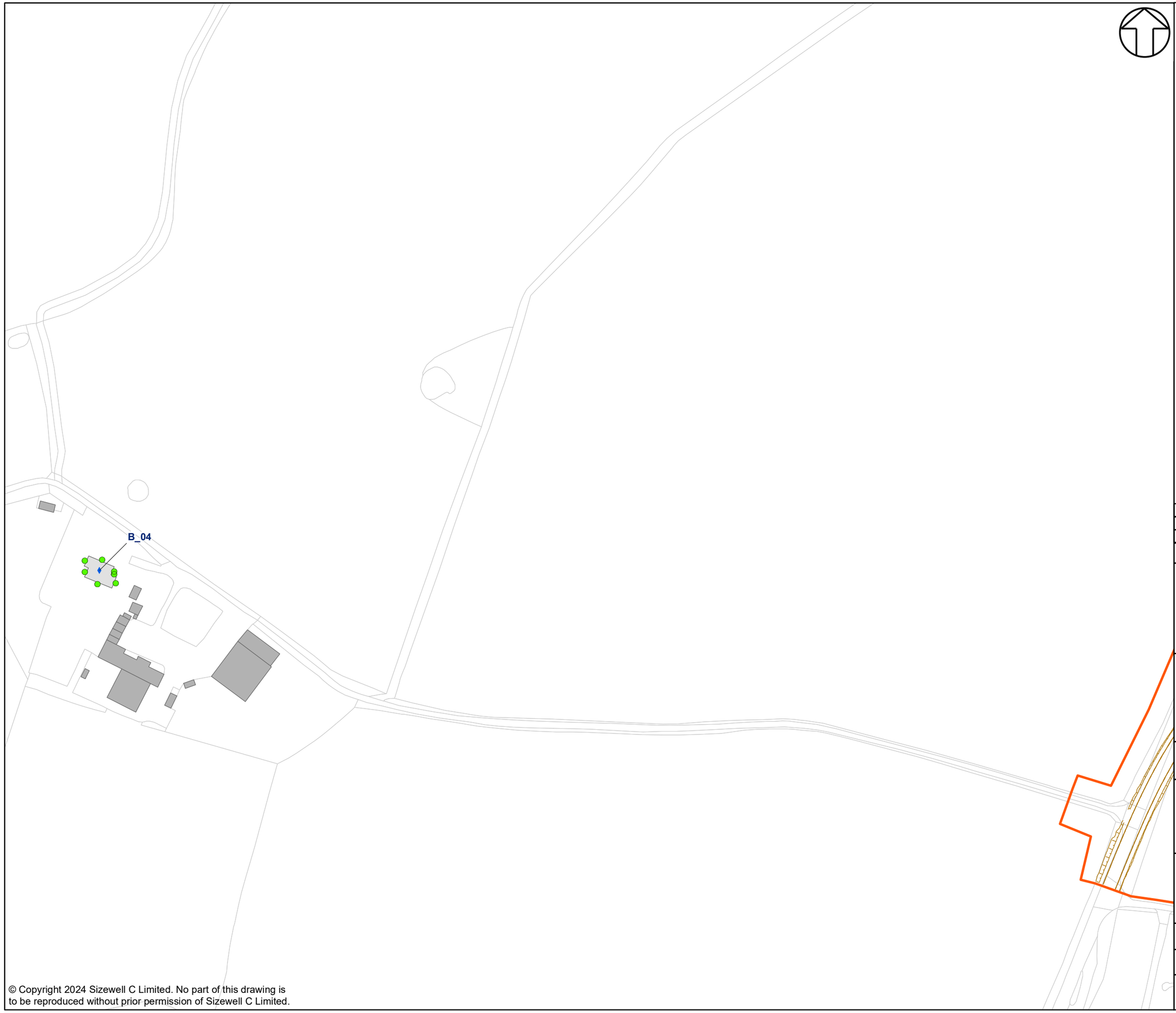
Figure 2. Sizewell Link Road Construction NMS Qualification



KEY:

Daytime Construction Noise Level LAeq, T dB facade

- 74.5-79.4 Weekday and Sat am threshold for noise insulation and Sat pm temporary re-housing
- 69.5-74.4 Shoulder hours threshold for noise insulation
- 64.5--69.4 Sat pm threshold for noise insulation
- <64.5 No Qualification
- Construction noise receptors (with label)
- Façade qualifying for noise insulation
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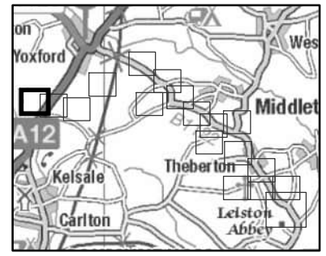

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SIZEWELL LINK ROAD
CONSTRUCTION NMS QUALIFICATION
SHEET 1 OF 18

DRAWING NO: FIGURE 2

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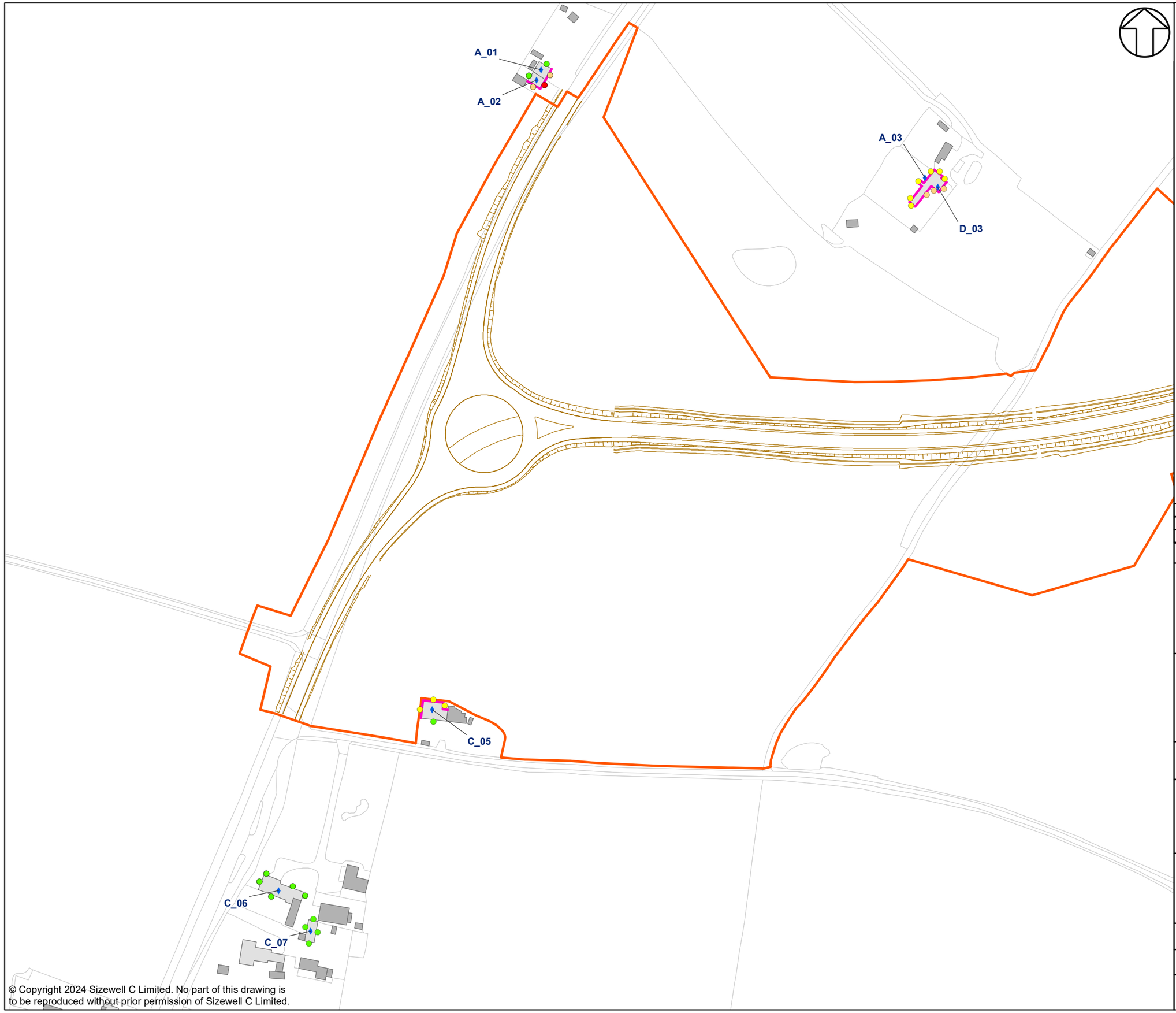
SCALE: 1:2,000 @A3

SCALE BAR: 0 20 40 60 80 100 M



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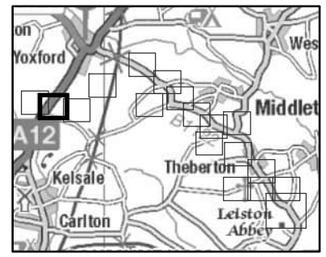

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SHEET 2 OF 18

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FIGURE 2	01

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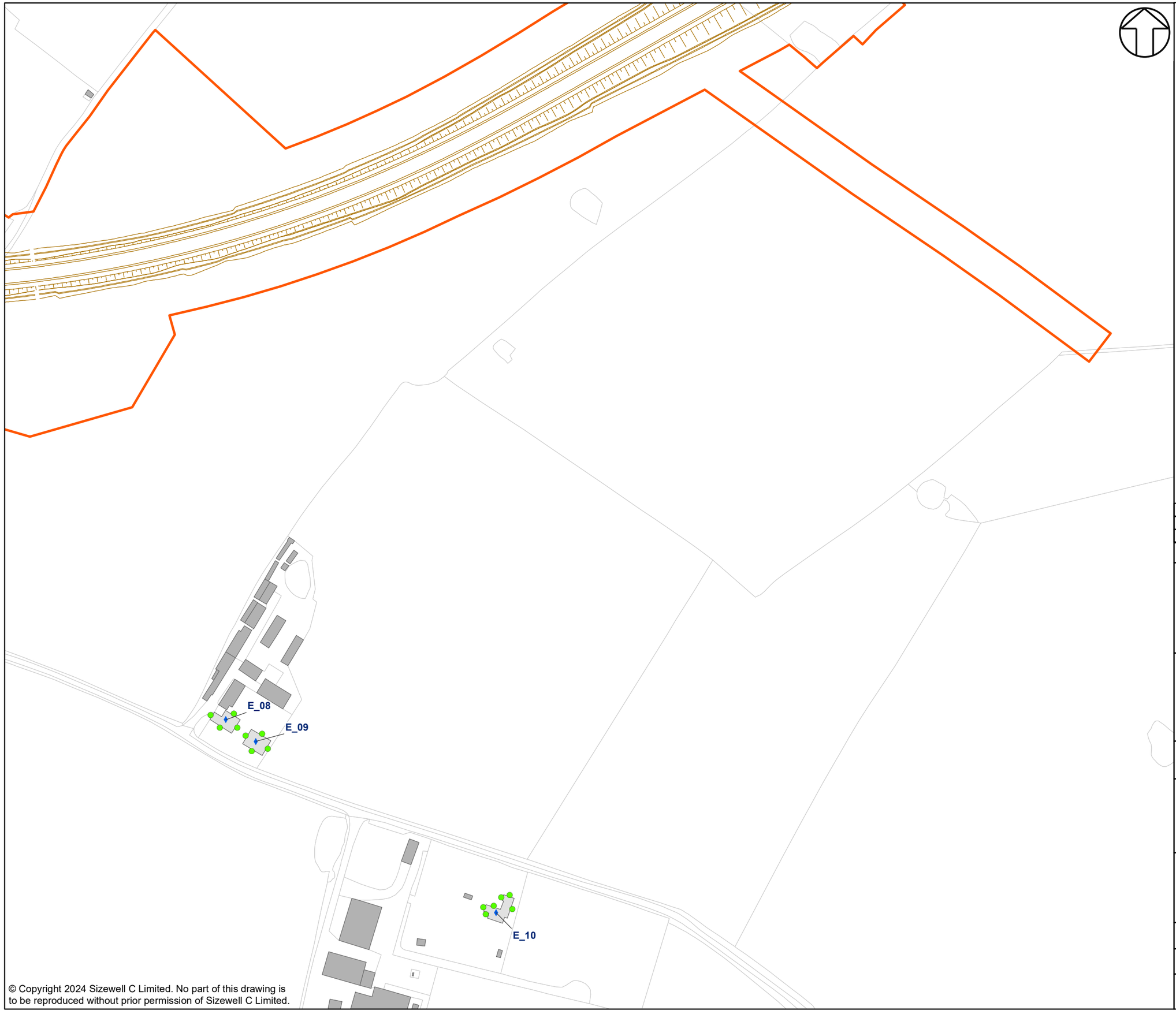
0 20 40 60 80 100 M



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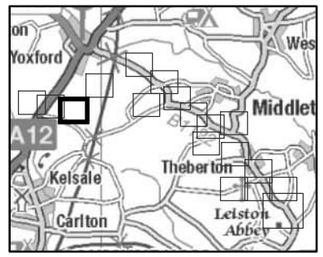

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SHEET 3 OF 18

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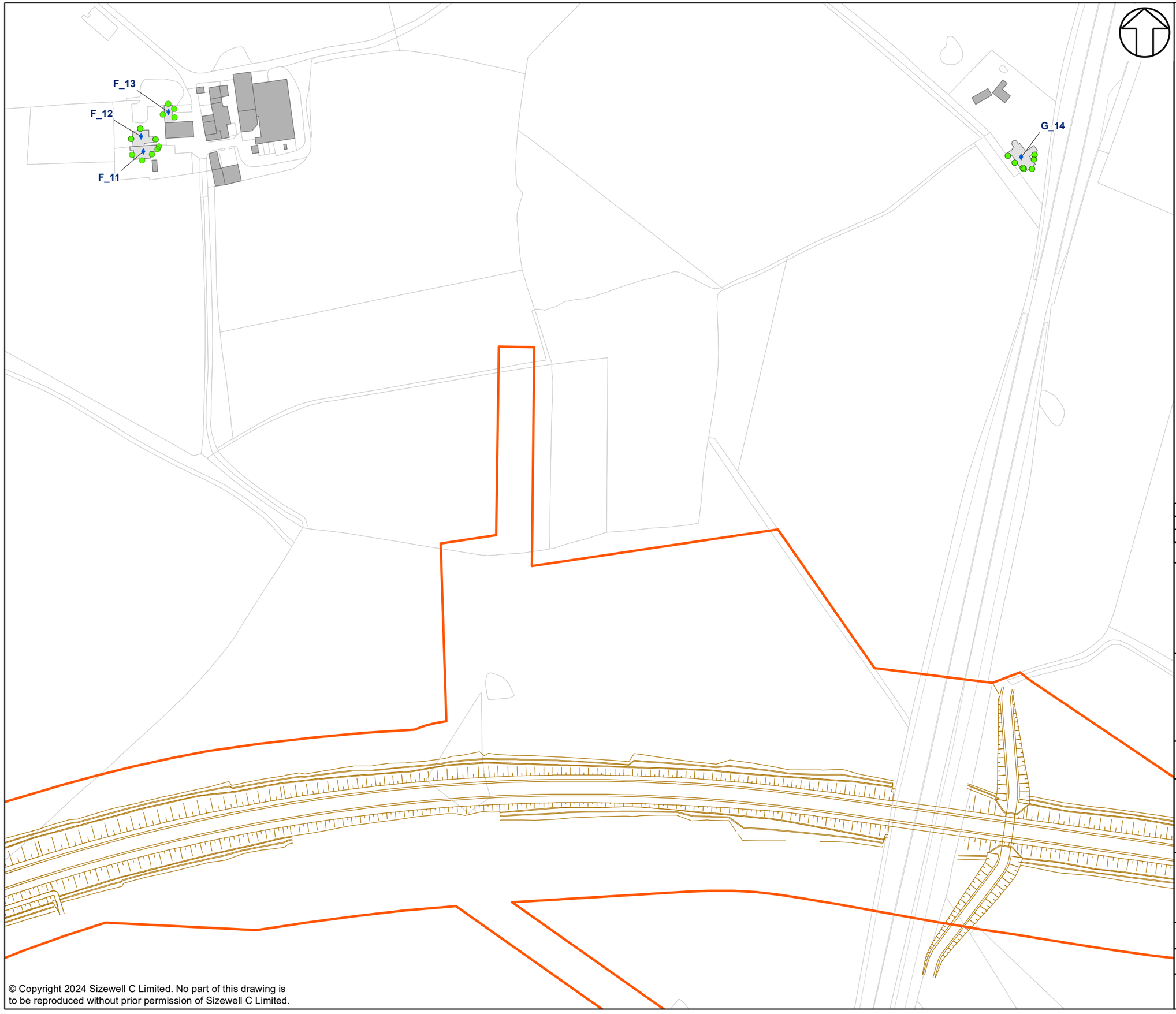
SCALE BAR: 0 20 40 60 80 100 M



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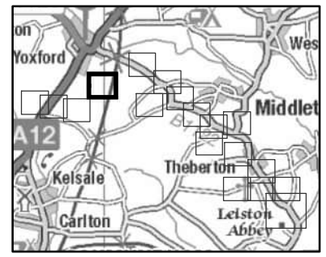

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SIZEWELL LINK ROAD
CONSTRUCTION NMS QUALIFICATION
SHEET 4 OF 18

DRAWING NO: FIGURE 2

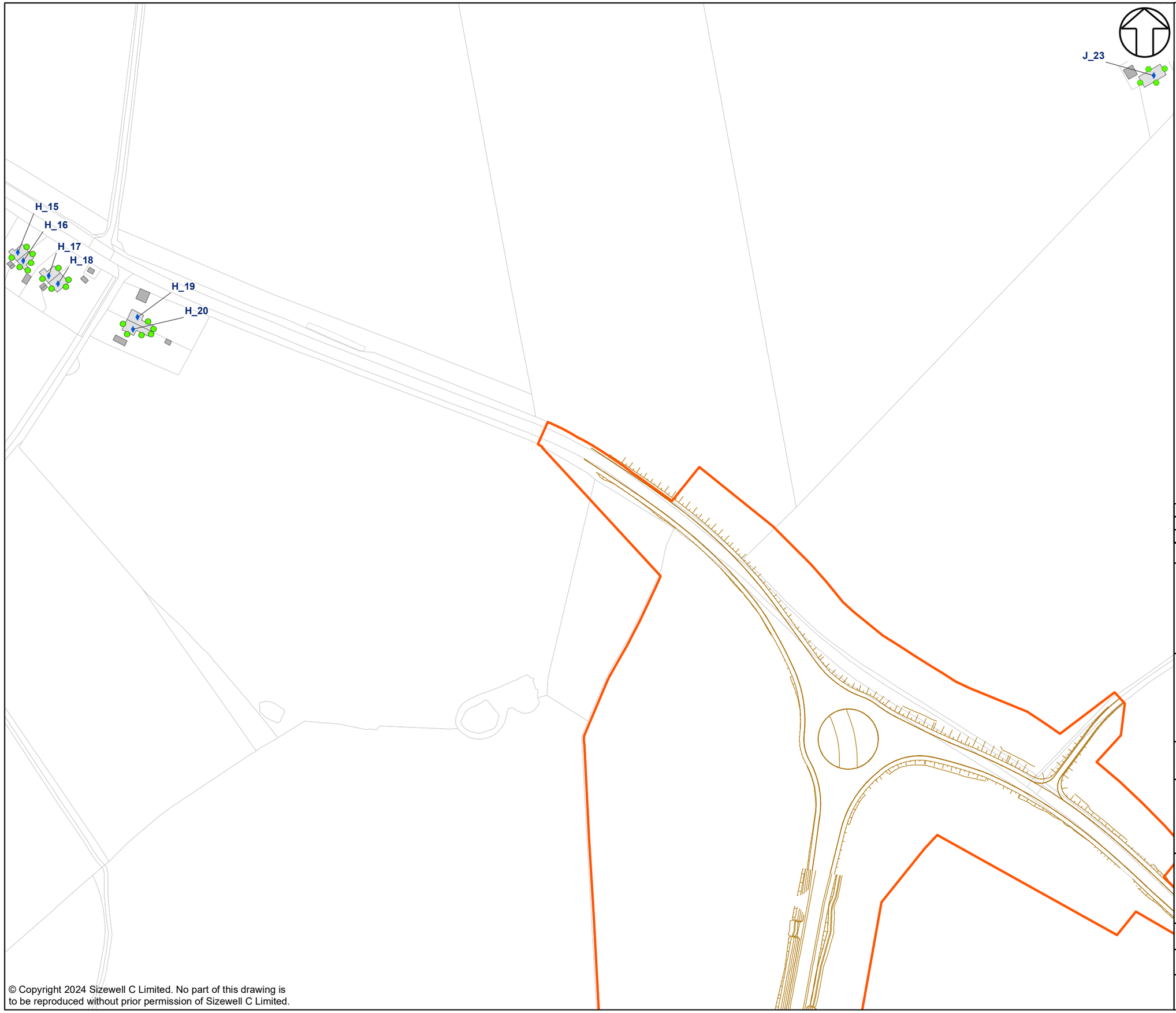
REVISION: 01

DATE: JUN 2024

DRAWN: O.B.

SCALE: 1:2,000 @A3

SCALE BAR:
0 20 40 60 80 100 M



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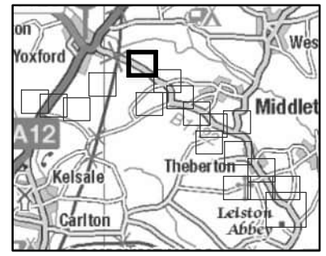
- 69.5-74.4 Shoulder hours threshold for noise insulation
- 64.5--69.4 Sat pm threshold for noise insulation
- <64.5 No Qualification
- Construction noise receptors (with label)
- Façade qualifying for noise insulation
- Residential building
- Non-residential building
- Red Line Planning Boundary
- Scheme design



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01	21/02/24	O.B.	S.S.	FIRST ISSUE	C.S.

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PROJECT:
SIZEWELL C

DOCUMENT:
60679030_NI_SLR_CONST_1

DRAWING TITLE:
SIZEWELL LINK ROAD
CONSTRUCTION NMS QUALIFICATION
SHEET 5 OF 18

DRAWING NO: FIGURE 2

REVISION: 01

DATE: JUN 2024

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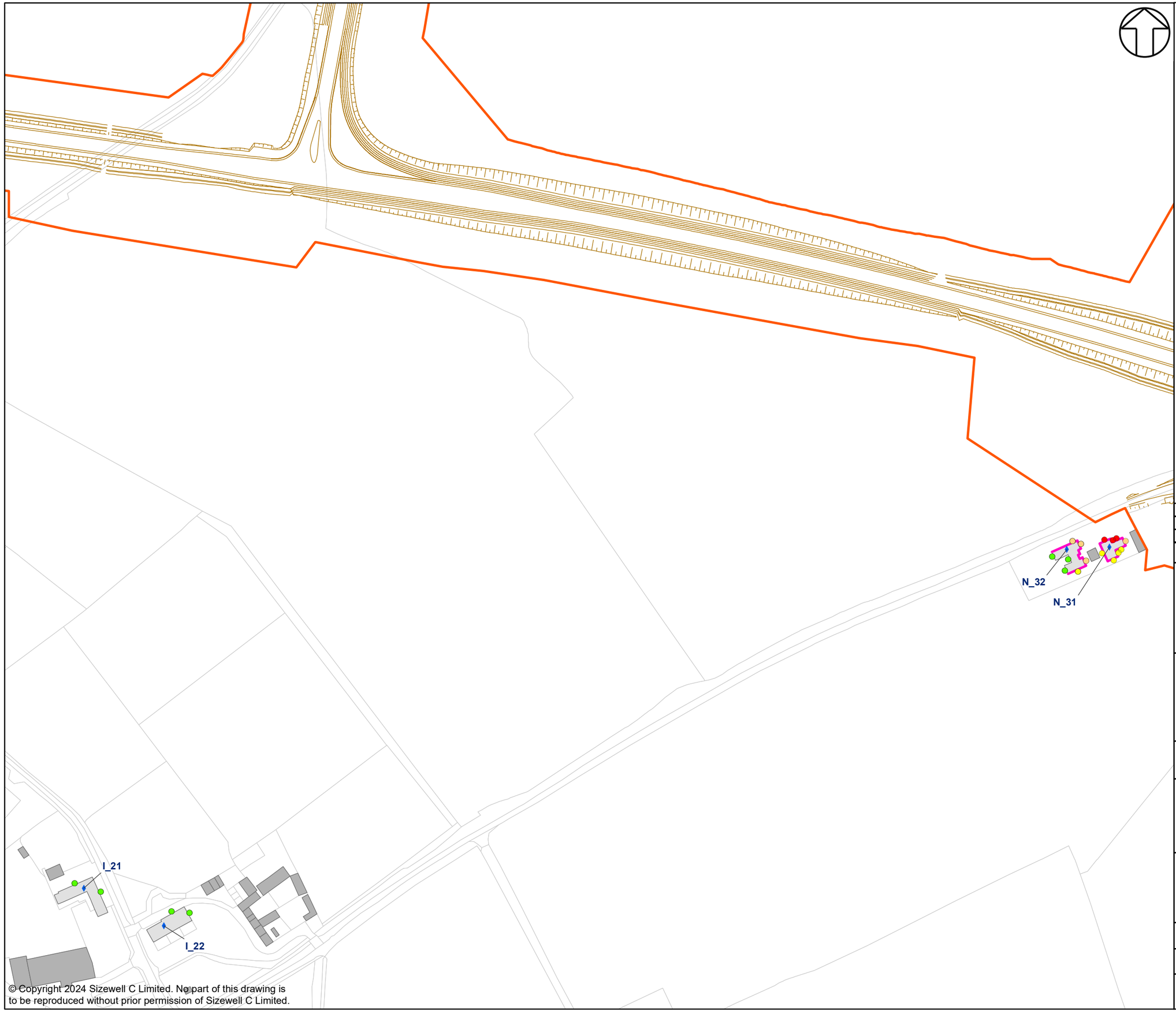

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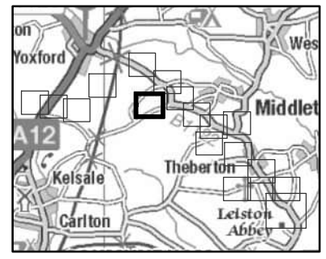

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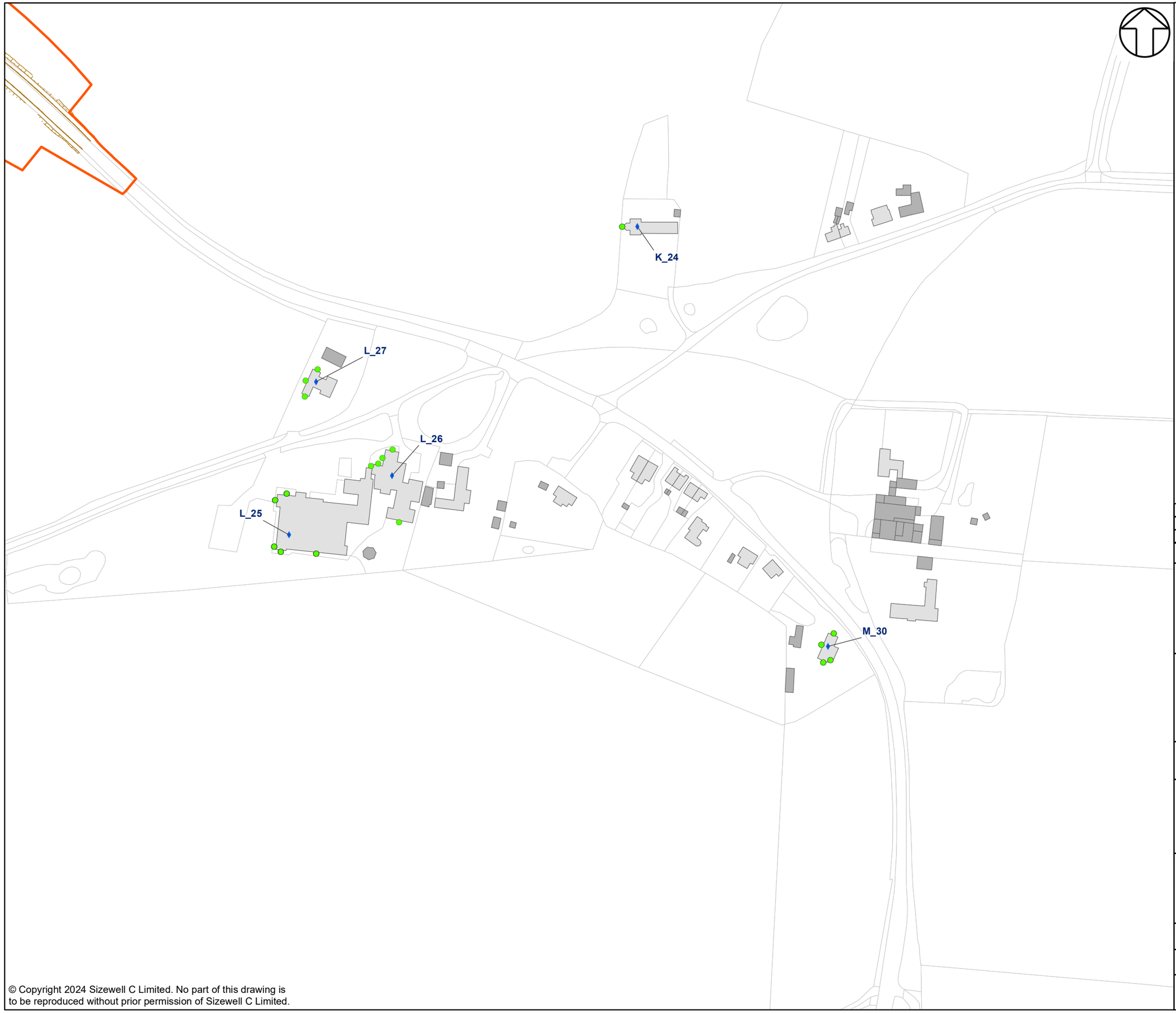

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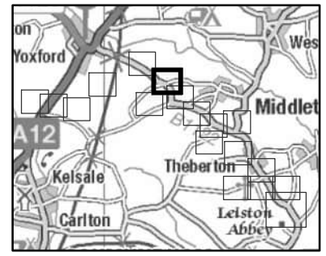

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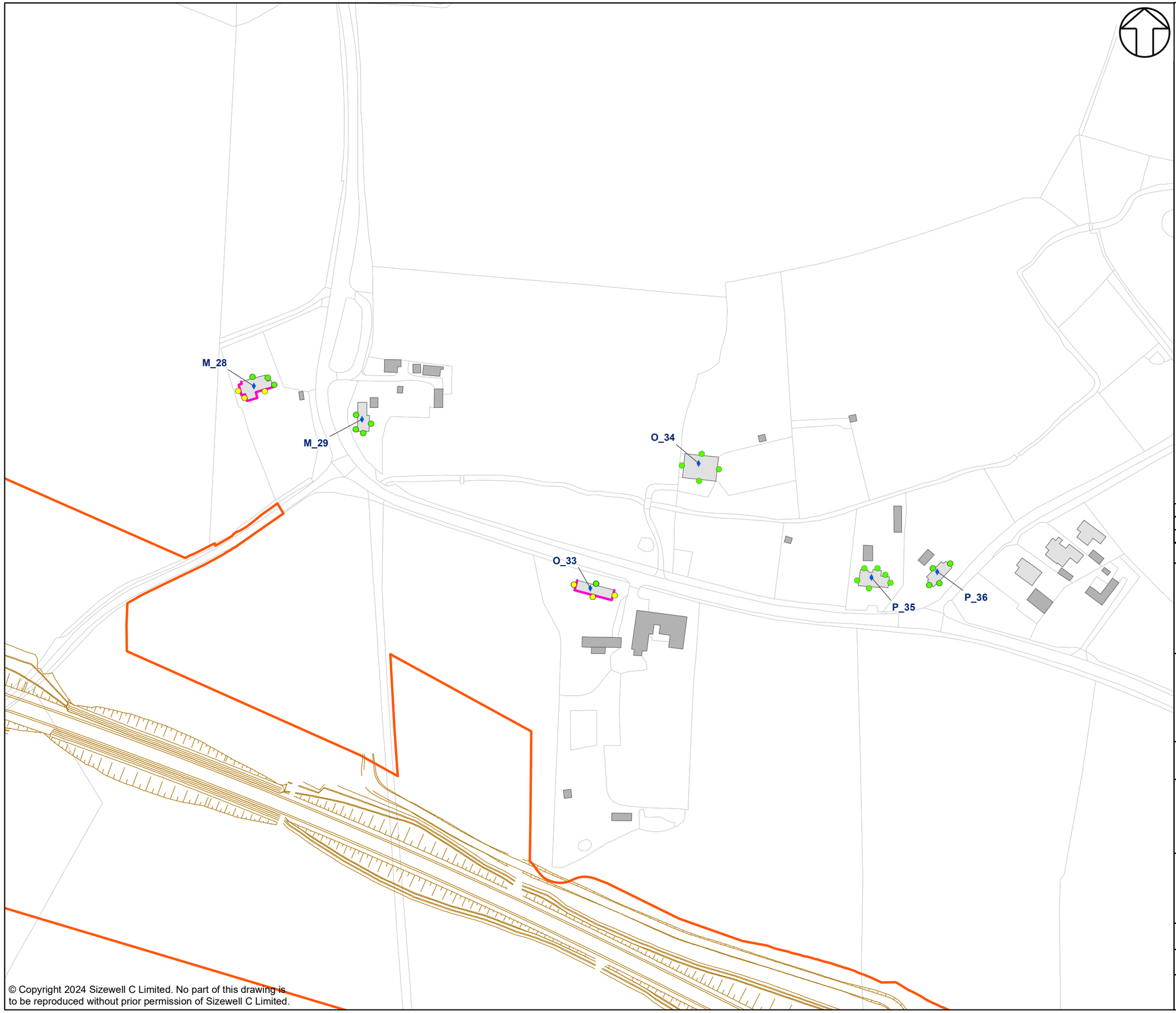

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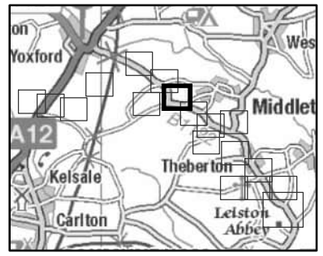

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