SECTION 5

APPENDIX 2.3.1

Noise Calibration Certificate and Noise Glossary

GLOSSARY

Ambient Noise

Totally encompassing sound in a given situation at a given time usually composed of a sound from many sources near and far.

Background noise level

The A-weighted sound pressure level of the residual noise at the assessment position that is exceeded for 90% of a given time interval,T measured using time weighting F, and quoted to the nearest whole number of decibels.

Day:	**Night:**
0800 hrs to 2200 hrs	2200 hrs to 0800 hrs

Decibel (dB)

The unit of sound pressure level, calculated as a logarithm of the intensity of sound. 0 dB is the threshold of hearing, 140 dB is the threshold of pain. A change of 1 dB is detectable only under laboratory conditions. A change of 10 dB corresponds approximately to halving or doubling the loudness of sound.

dB(A)

Decibels measured on a sound level meter incorporating a frequency weighting (A weighting) which differentiates between sound of different frequency (pitch) in a similar way to the human ear. Measurements in dB(A) broadly agree with peoples assessment of loudness.

Hertz (Hz)

Unit of frequency (pitch) of a sound.

Impulsive Noise

A noise which is of short duration (typically less than one second), the sound pressure level of which is significantly higher than the background.

1/3 Octave band analysis

Frequency analysis of sound such that the frequency spectrum is sub divided into bands of one third of an octave each. An octave is taken to be the frequency interval, the upper limit of which is twice the lower limit (in Hertz).

$L(A)_{eq}$

Equivalent Continuous A-weighted Sound Level. The continuous steady noise level, which would have the same total A-weighted acoustic energy as the real fluctuating noise measured over the same period of time.

$L(A)_{10}$

The noise level that is equaled or exceeded for 10% of the measurement period.

$L(A)_{90}$

The noise level that is equaled or exceeded for 90% of the measurement period.

Noise

Unwanted sound. Any sound which has the potential to cause disturbance, discomfort or psychological stress to a subject exposed to it, or any sound which has the potential to cause actual physiological harm to a subject exposed to it or physical damage to any structure exposed to it, is known as noise.

Noise Sensitive Receptor

A noise sensitive receptor is regarded as any dwelling house, hotel or hostel, health building, educational establishment, places of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.

Rating level L_{ArTr}

The specific noise level plus any adjustment for the characteristic features of the noise.

Residual Noise

The ambient noise remaining at a given position in a given situation when the specific noise source is suppressed to a degree such that it does not contribute to the ambient noise.

Sound Power

The energy output from a source. It is measured in Watts (W).

Specific Noise source

The noise source under investigation for assessing the likelihood of complaints.

Tone

A noise with a narrow frequency composition.

Certificate of Calibration

Cirrus Research plc

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	Acoustic Calibrator
Model Number	CR:513A
Serial Number	032884

Calibration Procedure

The acoustic calibrator detailed above has been calibrated to the published data as described in the operating manual. The procedures and techniques used to follow the recommendations of IEC standard Electroacoustics - Sound Calibrators IEC 60942:1997 and BS EN 60942:1998. The calibrator's main output is 94.00 dB (1 Pa) and this was set within the 0.01 dB resolution of the test system, i.e. one hundredth of a decibel. Numbers in {parenthesis} refer to the paragraph in IEC 60942.

Calibration Traceability

The calibrator above was calibrated against the calibration laboratory standards held at Hunmanby UK YO14 0PH. These are traceable to UK national standards {A.0.6}. The standards are:

Microphone Type	B&K4192	Serial Number	1920791	Calibration Ref.	S 5170
Pistonphone Type	B&K4220	Serial Number	613843	Calibration Ref.	S 5169

Calibration Climatic Conditions

These climatic test conditions were all maintained within the permitted limits of IEC 60942:1997.

Temperature	{B.3.2}	Permitted band 15°C to 25°C
Humidity	{B.3.2}	Permitted bank 30% to 90% RH
Static Pressure	{B.3.2}	Permitted band 85 kPa to 105 kPa
Ambient Noise Level	{B.3.3.6}	Max permitted level 64 dB(Z)

Measurement Results

The figures below are the Calibration Laboratory test limits for this model calibrator and have a smaller tolerance than those permitted in IEC 60942.

94 dB Output	93.96	dB	Permitted band 93.95 to 94.05 dB
104 dB Output	103.92	dB	Permitted band 103.80 to 104.30 dB
Frequency	1006.0	Hz	Permitted band 990 Hz to 1010 Hz

Uncertainty

With an uncertainty coefficient k=2, i.e. a 95% confidence level, the uncertainty of each measurement is:

94 dB Output	± 0.13 dB	104 dB Output	± 0.14 dB
Frequency	± 0.1 Hz	Level Stability	± 0.04 dB

Calibrated By T.A. Goodhill

Calibration Date 30 November 2005

Calibration Certificate Number 135377

This Calibration Certificate is valid for 12 months from the date above.

Acoustic House Bridlington Road Hunmanby North Yorkshire YO14 0PH
Telephone 01723 891655 Fax 01723 891742

Certificate of Calibration

Cirrus Research plc

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	Sound Level Meter
Model Number	CR:831A
Serial Number	B16438FF

Calibration Procedure

The instrument detailed above has been calibrated to the published test and calibration data as detailed in the instrument handbook, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2002, IEC 60651:1979, IEC 60804:2001, IEC 61260:1995, IEC 60942:1997, IEC 61252:1993, ANSI S1.4-1983 and ANSI S1.43-1997 where applicable.

Sound Level Meters: All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the final acoustic calibration.

Calibration Traceability

The equipment detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. which are traceable to the appropriate National Standards.

The Cirrus Research plc calibration laboratory standards are:

Microphone Type	B&K4192	Serial Number	1920791	Calibration Ref.	S 5170
Pistonphone Type	B&K4220	Serial Number	613843	Calibration Ref.	S 5169

Calibrated By	T. A. Goodhill
Calibration Date	30 November 2005
Calibration Certificate Number	135376

This Calibration Certificate is valid for 12 months from the date above.

Acoustic House Bridlington Road Hunmanby North Yorkshire YO14 0PH
Telephone 01723 891655 Fax 01723 891742

APPENDIX 2.3.2

Noise Graphs

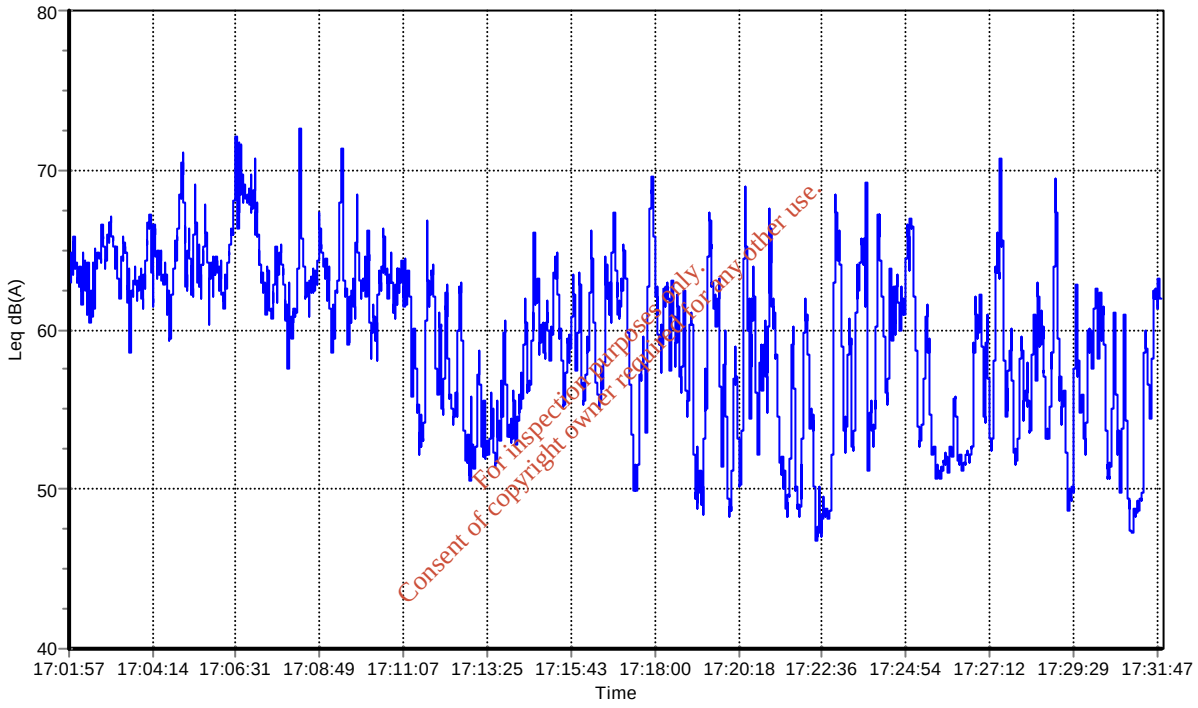
Noise Measurement Report

Date: 14/07/05 Time: 17:01:57

Run Time: 00:30:00
Range: 40-100 dB

Leq	62.1 dBA
Lepd	50.1 dBA
LAE	94.5 dBA
LAFmax	77.6 dBA
Peak	101.2 dBC

L1.0	L10.0	L50.0	L90.0	L95.0	L99.0
69.8 dBA	65.5 dBA	60.2 dBA	51.5 dBA	49.7 dBA	47.8 dBA



Notes: Location N1 - Broadband Measurement

Printed: 11/01/06 14:53:14

Noise Measurement Report

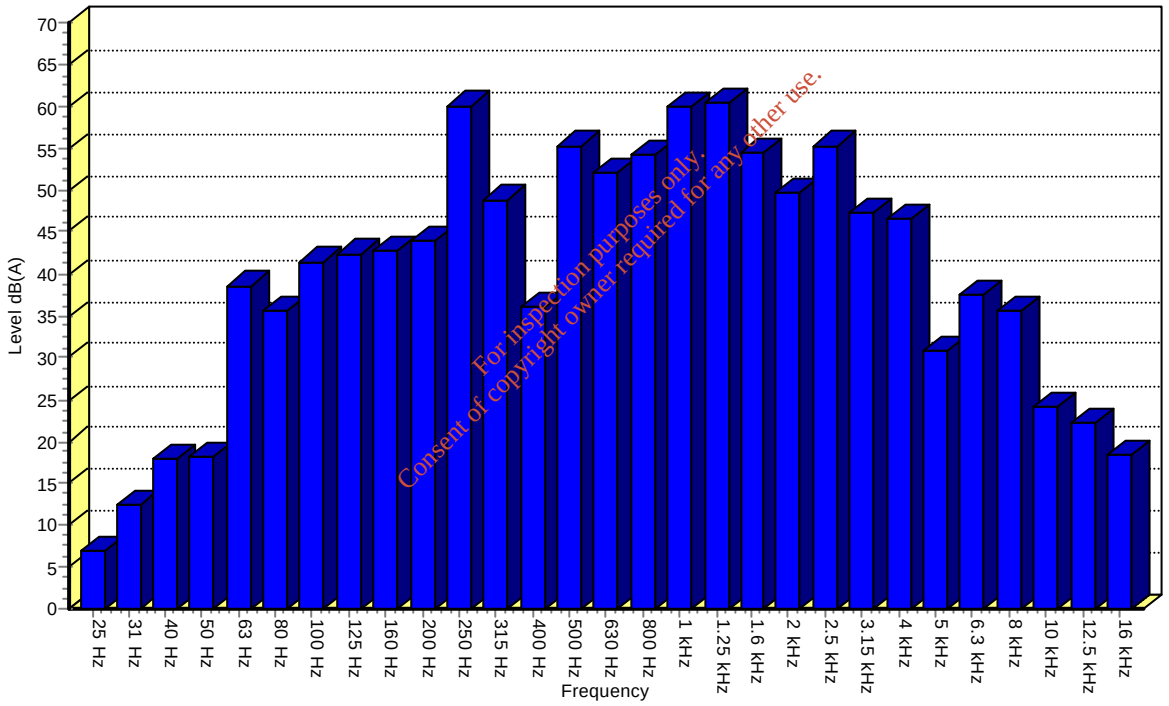
Date: 14/07/05 Time: 17:36:02

Run Time: 00:04:48
Range: 40-100 dB
Spectrum 'A' weighted

Measurement	25 Hz	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz
Level (dB)	6.8	12.4	18.0	18.2	38.6	35.6	41.5	42.4	42.8	44.0	60.2
Duration (s)	9	9	9	9	9	9	9	9	9	9	9

Measurement	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz
Level (dB)	48.8	36.1	55.3	52.2	54.2	59.9	60.5	54.5	49.7	55.4	47.3
	9	9	9	9	9	9	9	9	9	9	9

Measurement	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	LAeq	LCeq	LZeq
Level (dB)	46.6	30.7	37.5	35.6	24.2	22.3	18.5	68.5	71.8	65.3
Duration (s)	9	9	9	9	9	9	9	9	9	9



Notes: Locatgion N1 - 1/3 Octave Frequency Analysis

Printed: 11/01/06 14:54:08

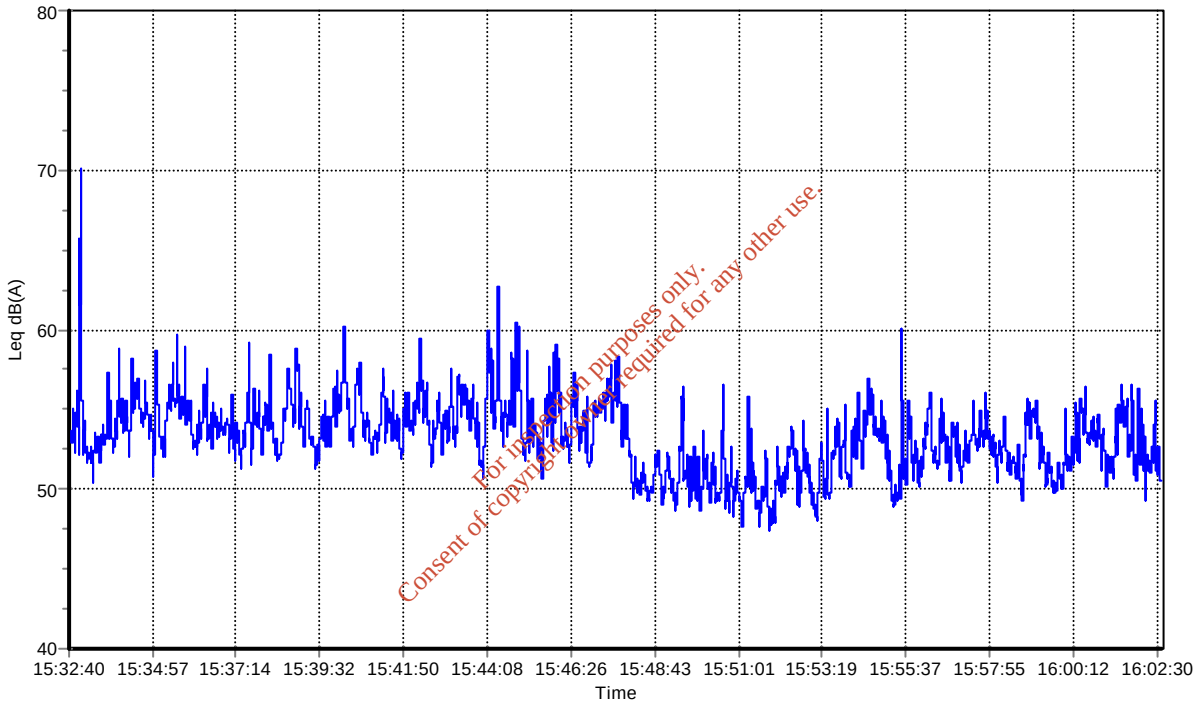
Noise Measurement Report

Date: 14/07/05 Time: 15:32:40

Run Time: 00:30:00
Range: 40-100 dB

Leq	54.0 dBA
Lepd	41.9 dBA
LAE	86.3 dBA
LAFmax	77.3 dBA
Peak	102.0 dBC

L1.0	L10.0	L50.0	L90.0	L95.0	L99.0
59.3 dBA	56.0 dBA	53.1 dBA	49.9 dBA	49.2 dBA	48.2 dBA



Notes: Location N2 - Broadband Meaurement

Printed: 11/01/06 15:21:53

Noise Measurement Report

Date: 14/07/05 Time: 16:04:07

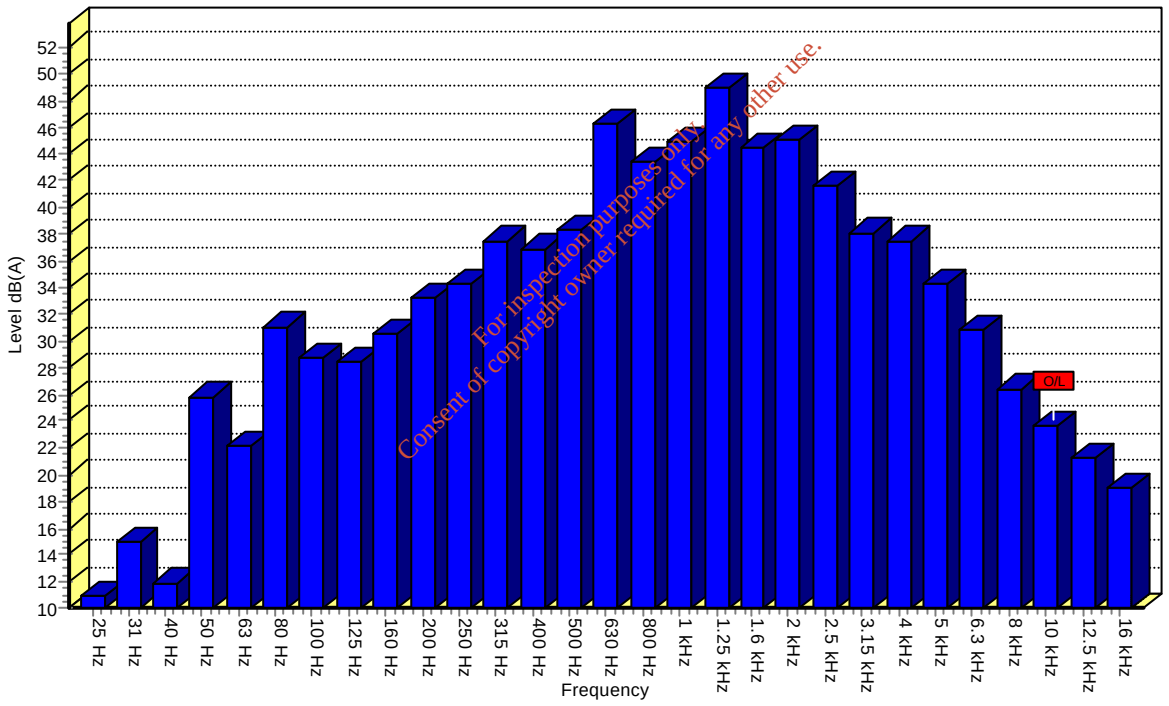
Run Time: 00:04:48
Range: 40-100 dB
Spectrum 'A' weighted

Measurement	25 Hz	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz
Level (dB)	10.9	14.9	12.0	25.8	22.2	31.1	28.8	28.4	30.6	33.2	34.2
Duration (s)	9	9	9	9	9	9	9	9	9	9	9

Measurement	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz
Level (dB)	37.5	36.9	38.3	46.3	43.4	44.9	49.0	44.4	45.0	41.7	38.2
	9	9	9	9	9	9	9	9	9	9	9

Measurement	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	LAeq	LCeq	LZeq
Level (dB)	37.5	34.3	30.8	26.5	23.7^	21.3	19.0	50.8	63.7	77.0
Duration (s)	9	9	9	9	9	9	9	9	9	9

^ indicates overload



Notes: Location N2 - 1/3 Octave Frequency Anlaysis

Printed: 11/01/06 15:23:23

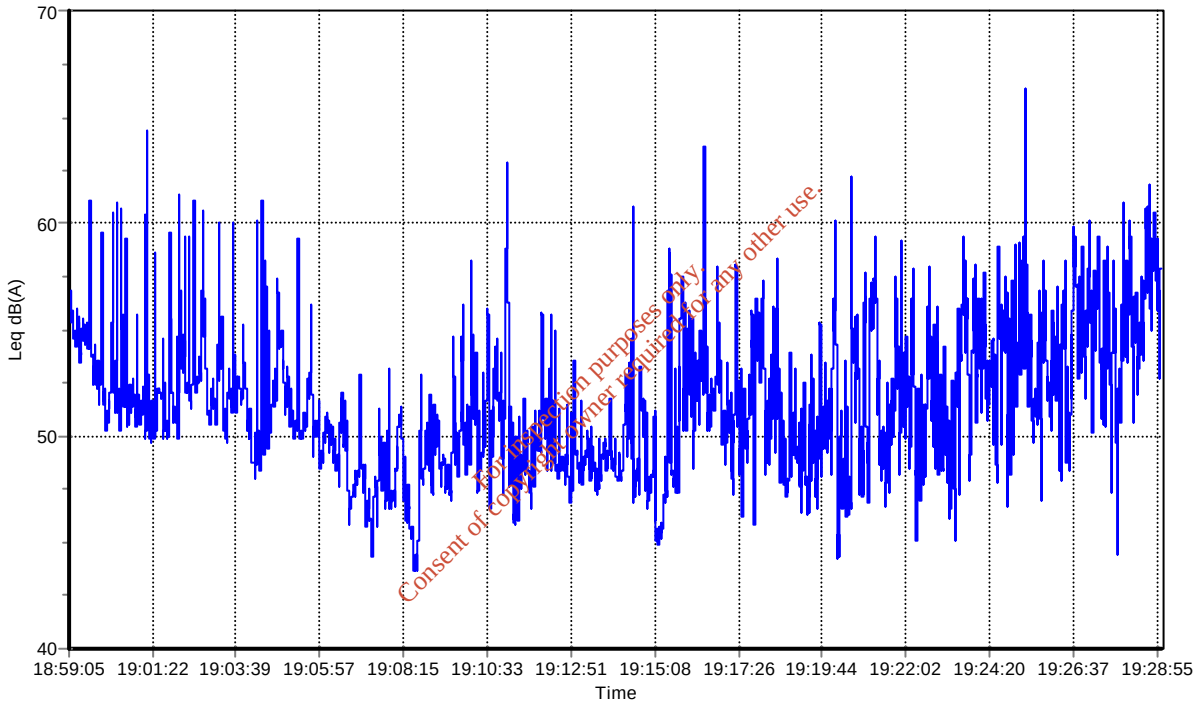
Noise Measurement Report

Date: 14/07/05 Time: 18:59:05

Run Time: 00:30:00
Range: 40-100 dB

Leq	53.1 dBA
Lepd	41.1 dBA
LAE	85.5 dBA
LAFmax	72.5 dBA
Peak	84.8 dBC

L1.0	L10.0	L50.0	L90.0	L95.0	L99.0
150.0 dBA	58.0 dBA	50.6 dBA	46.5 dBA	45.4 dBA	43.7 dBA



Notes: Location N3 - Broadband Measurement

Printed: 11/01/06 15:10:45

Noise Measurement Report

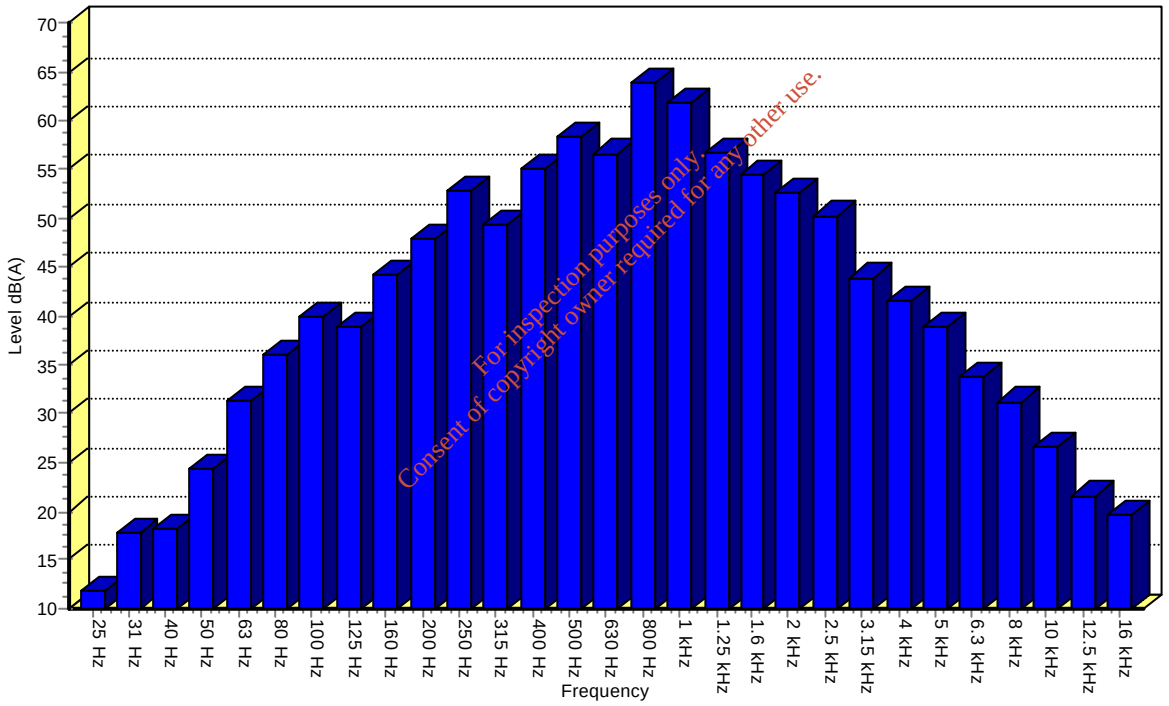
Date: 14/07/05 Time: 19:37:28

Run Time: 00:04:48
Range: 40-100 dB
Spectrum 'A' weighted

Measurement	25 Hz	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz
Level (dB)	11.7	17.7	18.1	24.3	31.4	36.1	40.0	38.9	44.3	47.9	52.9
Duration (s)	9	9	9	9	9	9	9	9	9	9	9

Measurement	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz
Level (dB)	49.4	54.9	58.4	56.7	64.0	61.9	56.8	54.5	52.5	50.2	44.0
	9	9	9	9	9	9	9	9	9	9	9

Measurement	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	LAeq	LCeq	LZeq
Level (dB)	41.6	38.8	33.8	31.1	26.6	21.6	19.6	67.7	71.0	76.8
Duration (s)	9	9	9	9	9	9	9	9	9	9



Notes: Location N3 - 1/3 Octave Frequency Analysis

Printed: 11/01/06 15:09:32

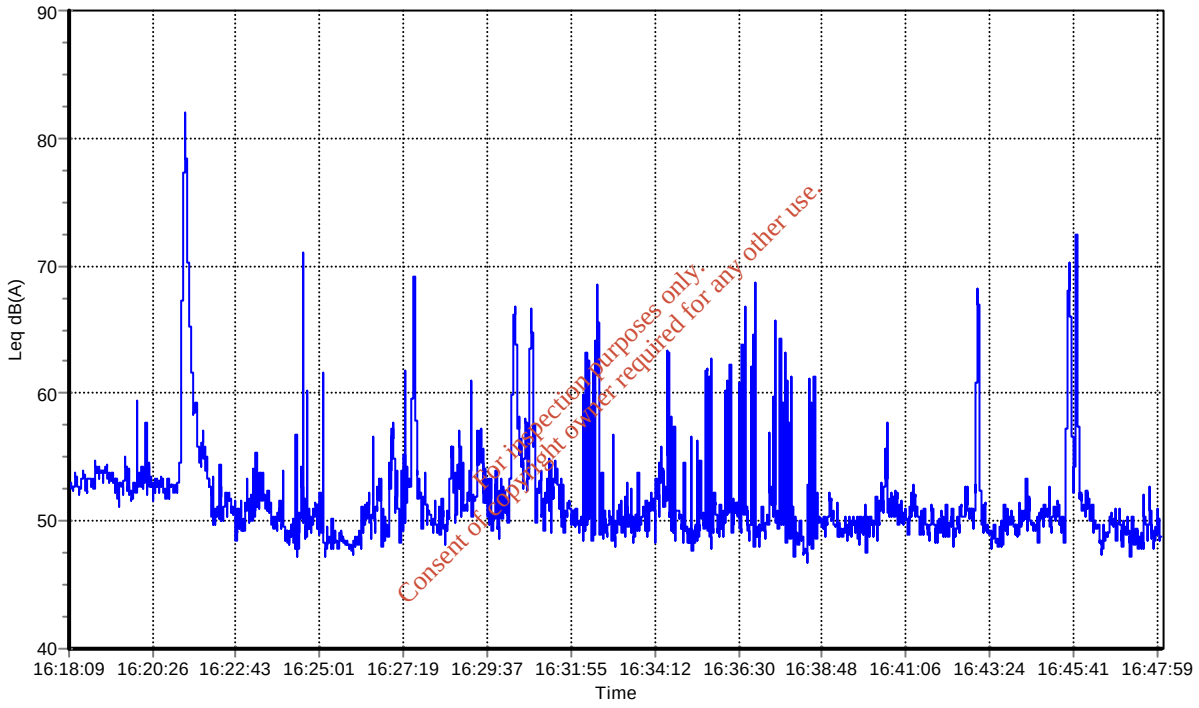
Noise Measurement Report

Date: 14/07/05 Time: 16:18:09

Run Time: 00:30:00
Range: 40-100 dB

Leq	58.1 dBA
Lepd	46.1 dBA
LAE	90.5 dBA
LAFmax	82.8 dBA
Peak	97.1 dBC

L1.0	L10.0	L50.0	L90.0	L95.0	L99.0
150.0 dBA	150.0 dBA	50.9 dBA	48.5 dBA	47.9 dBA	47.0 dBA



Notes: Location N4 - Broadband Measurement

Printed: 11/01/06 14:44:14

Noise Measurement Report

Date: 14/07/05 Time: 16:56:47

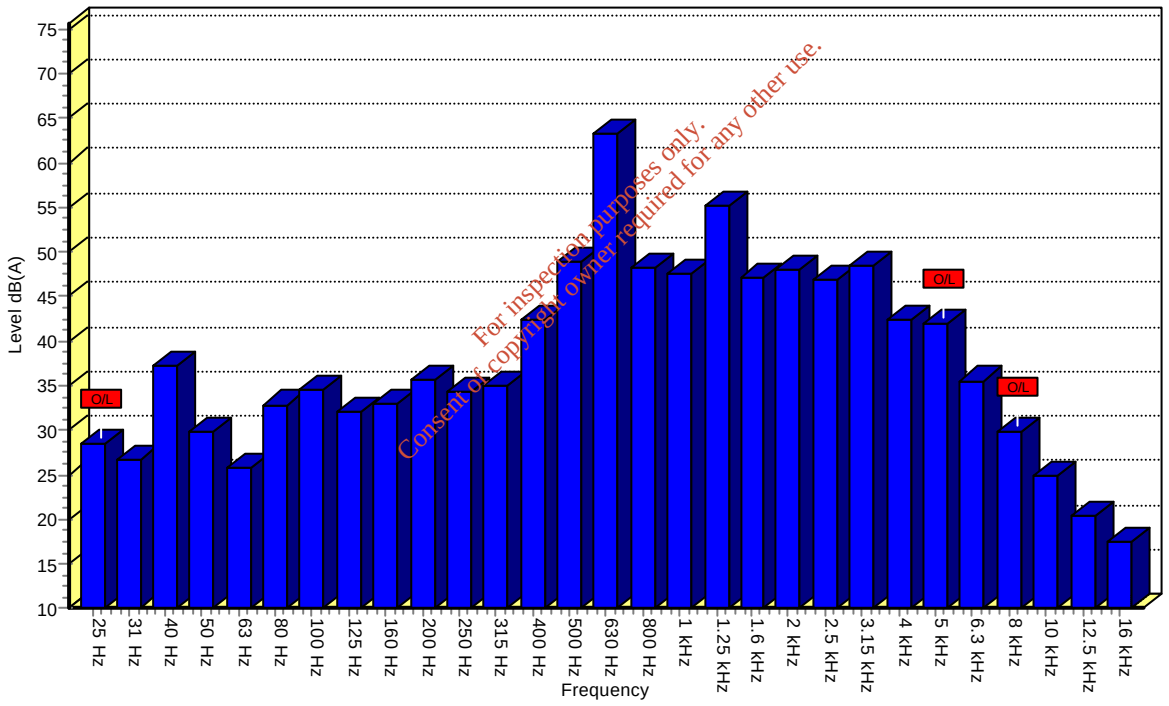
Run Time: 00:04:48
Range: 40-100 dB
Spectrum 'A' weighted

Measurement	25 Hz	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz
Level (dB)	28.4^	26.6	37.1	29.8	25.8	32.9	34.5	32.1	33.1	35.7	34.3
Duration (s)	9	9	9	9	9	9	9	9	9	9	9

Measurement	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz
Level (dB)	35.0	42.3	48.9	63.1	48.2	47.5	55.2	47.2	48.1	47.0	48.4
	9	9	9	9	9	9	9	9	9	9	9

Measurement	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	LAeq	LCeq	LZeq
Level (dB)	42.3	42.1^	35.5	29.9^	24.8	20.4	17.6	67.1	72.3	80.8
Duration (s)	9	9	9	9	9	9	9	9	9	9

^ indicates overload



Notes: Location N4 - 1/3 Octave Frequency Analysis

Printed: 11/01/06 14:45:26

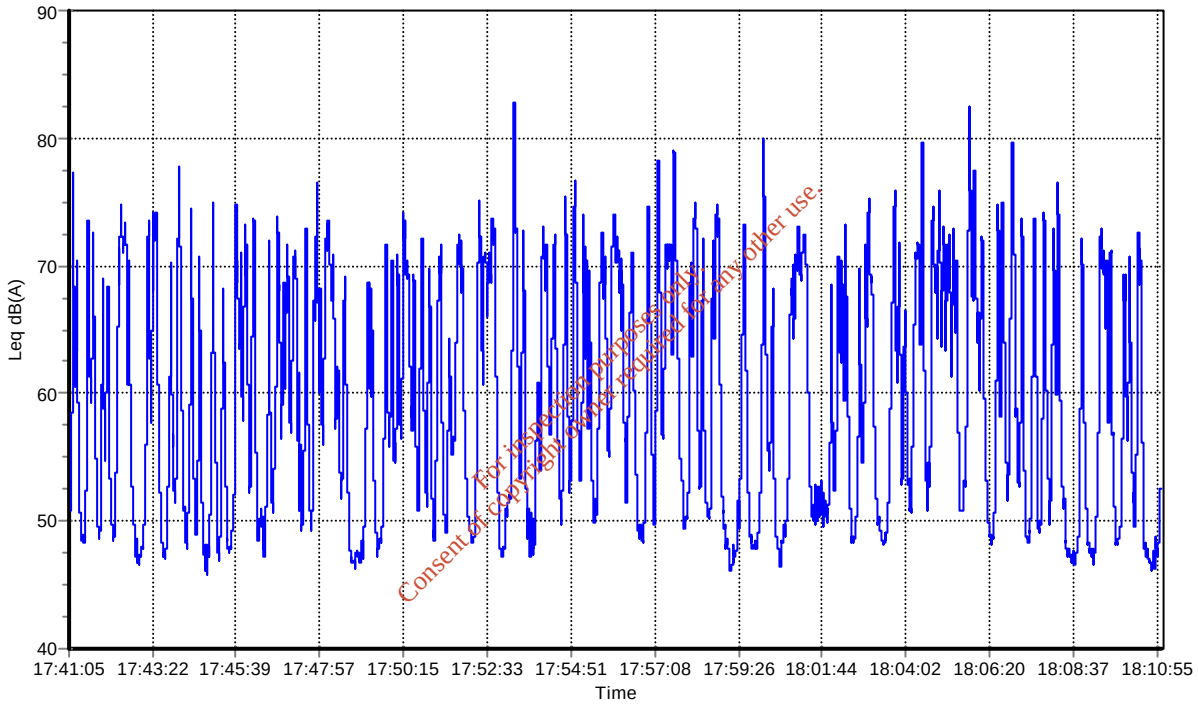
Noise Measurement Report

Date: 14/07/05 Time: 17:41:05

Run Time: 00:30:00
Range: 40-100 dB

Leq	67.0 dBA
Lepd	55.0 dBA
LAE	99.3 dBA
LAFmax	85.9 dBA
Peak	106.1 dBC

L1.0	L10.0	L50.0	L90.0	L95.0	L99.0
150.0 dBA	72.8 dBA	57.7 dBA	48.0 dBA	47.1 dBA	46.0 dBA



Notes: NSL 1 - Daytime Broadband Measurement

Printed: 31/08/05 14:00:01

Noise Measurement Report

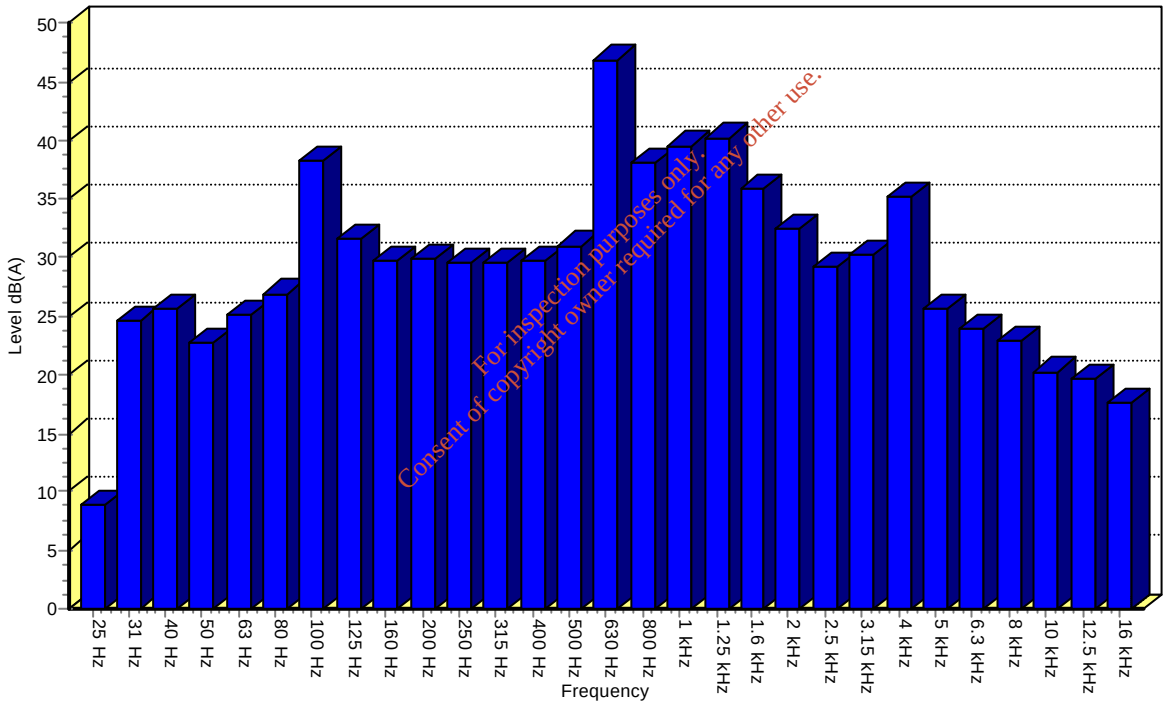
Date: 14/07/05 Time: 18:15:47

Run Time: 00:04:48
Range: 40-100 dB
Spectrum 'A' weighted

Measurement	25 Hz	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz
Level (dB)	8.8	24.6	25.5	22.7	25.2	26.9	38.1	31.7	29.8	29.9	29.5
Duration (s)	9	9	9	9	9	9	9	9	9	9	9

Measurement	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz
Level (dB)	29.6	29.7	30.9	46.9	38.0	39.5	40.2	35.9	32.5	29.2	30.1
	9	9	9	9	9	9	9	9	9	9	9

Measurement	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	LAeq	LCeq	LZeq
Level (dB)	35.2	25.5	23.9	22.9	20.2	19.7	17.6	47.5	63.3	76.3
Duration (s)	9	9	9	9	9	9	9	9	9	9



Notes: NSL 1 - Daytime 1/3 Octave Frequency Analysis Measurement

Printed: 31/08/05 14:01:18

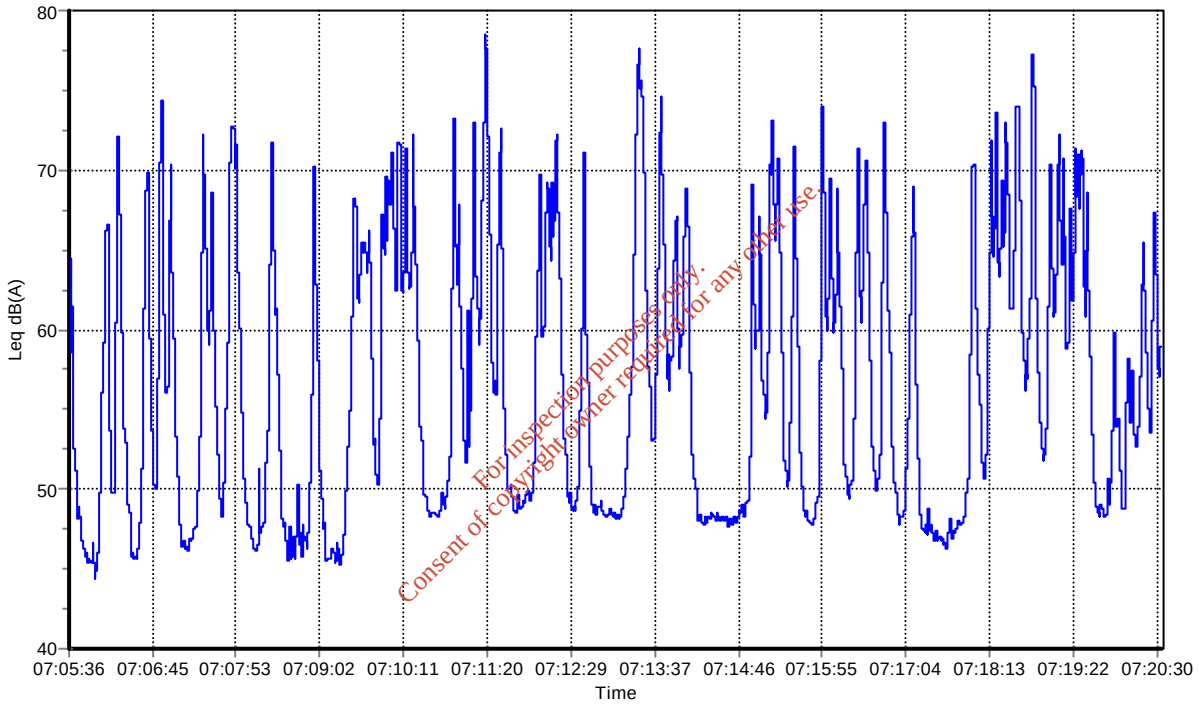
Noise Measurement Report

Date: 15/07/05 Time: 07:05:36

Run Time: 00:15:00
Range: 40-100 dB

Leq	64.3 dBA
Lepd	49.2 dBA
LAE	93.6 dBA
LAFmax	80.7 dBA
Peak	99.7 dBC

L1.0	L10.0	L50.0	L90.0	L95.0	L99.0
150.0 dBA	70.3 dBA	56.0 dBA	47.3 dBA	46.1 dBA	45.1 dBA



Notes: Location N1 - Night time Broadband Measurement

Printed: 11/01/06 16:57:47

Noise Measurement Report

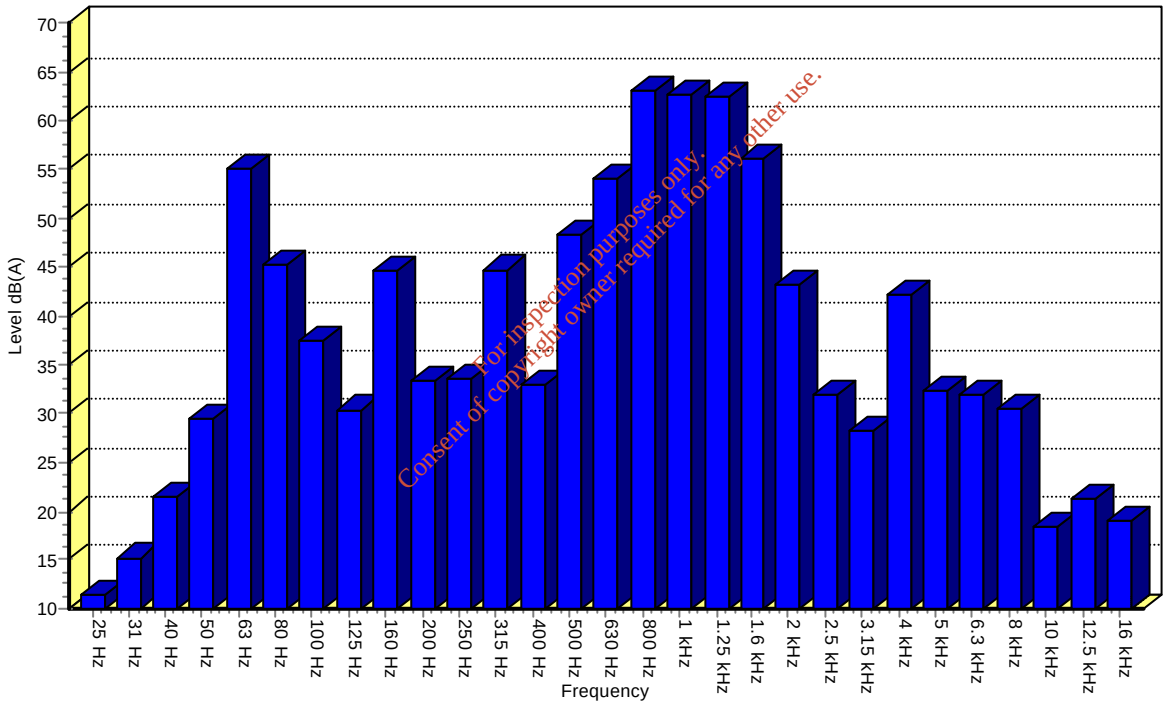
Date: 15/07/05 Time: 07:20:52

Run Time: 00:02:40
Range: 40-100 dB
Spectrum 'A' weighted

Measurement	25 Hz	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz
Level (dB)	11.4	15.2	21.5	29.4	55.1	45.2	37.4	30.4	44.6	33.3	33.7
Duration (s)	5	5	5	5	5	5	5	5	5	5	5

Measurement	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz
Level (dB)	44.7	33.0	48.3	54.1	62.9	62.6	62.5	56.2	43.2	31.8	28.3
	5	5	5	5	5	5	5	5	5	5	5

Measurement	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	LAeq	LCeq	LZeq
Level (dB)	42.1	32.3	31.8	30.6	18.3	21.2	18.9	46.1	63.0	64.7
Duration (s)	5	5	5	5	5	5	5	5	5	5



Notes: Location N1 - Night time 1/3 Octave Frequency Analysis

Printed: 11/01/06 16:59:19

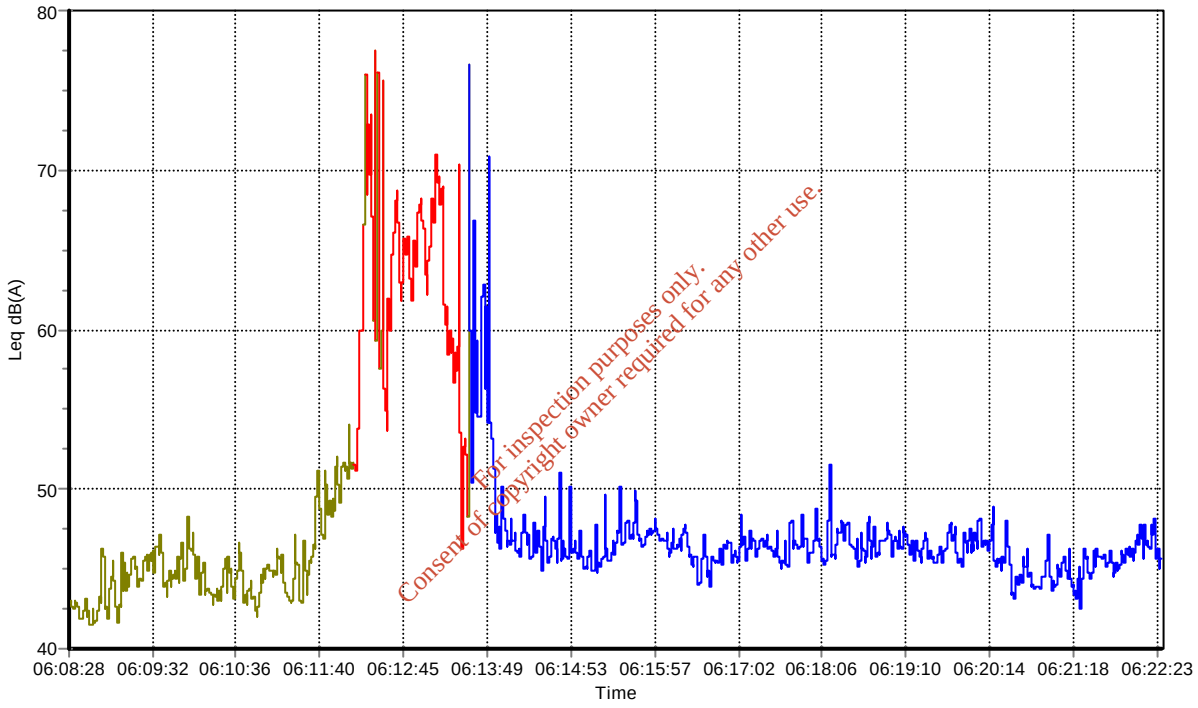
Noise Measurement Report

Date: 15/07/05 Time: 06:08:28

Run Time: 00:12:02
Range: 40-100 dB

Leq	46.3 dBA
Lepd	30.3 dBA
LAE	74.7 dBA
LAFmax	58.6 dBA
Peak	84.8 dBC

L1.0	L10.0	L50.0	L90.0	L95.0	L99.0
150.0 dBA	150.0 dBA	45.8 dBA	43.1 dBA	42.4 dBA	41.4 dBA



Notes: Location N2 - Night time Broadband Measurement

Printed: 11/01/06 15:58:54

Noise Measurement Report

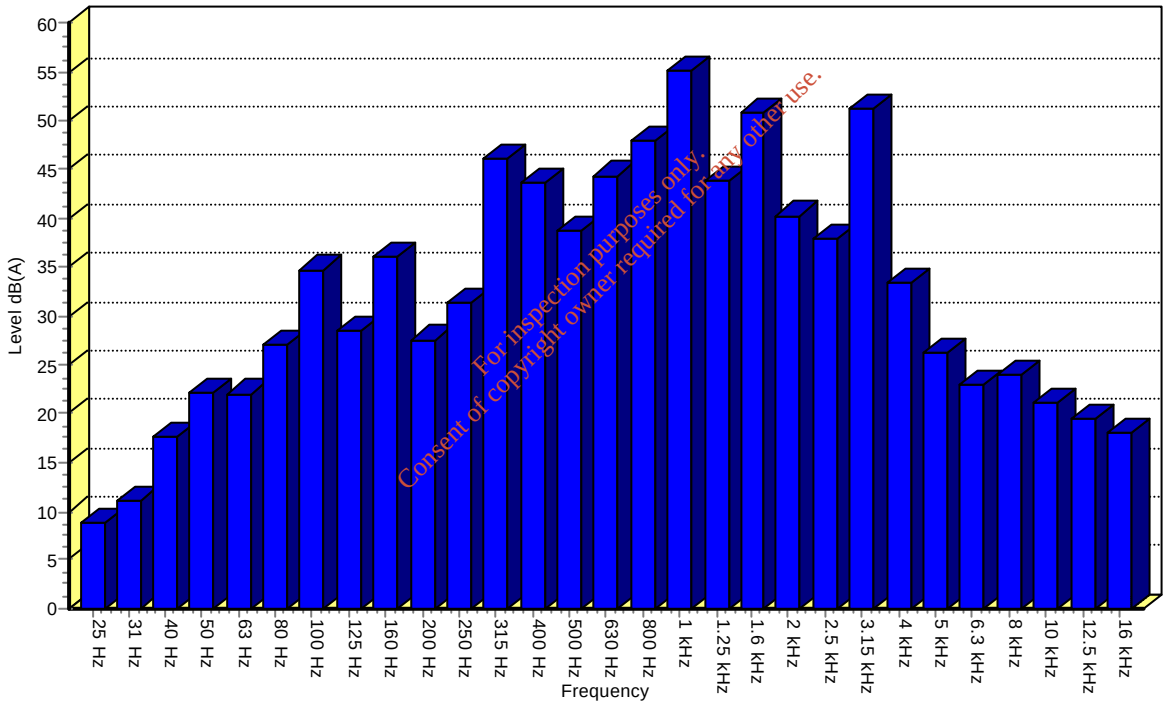
Date: 15/07/05 Time: 06:23:14

Run Time: 00:02:40
Range: 40-100 dB
Spectrum 'A' weighted

Measurement	25 Hz	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz
Level (dB)	8.7	11.1	17.6	22.2	22.0	27.0	34.7	28.5	36.1	27.6	31.3
Duration (s)	5	5	5	5	5	5	5	5	5	5	5

Measurement	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz
Level (dB)	46.2	43.7	38.6	44.3	47.9	55.1	43.9	50.9	40.2	37.8	51.1
	5	5	5	5	5	5	5	5	5	5	5

Measurement	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	LAeq	LCeq	LZeq
Level (dB)	33.4	26.3	23.0	23.9	21.0	19.3	18.0	53.8	70.8	70.9
Duration (s)	5	5	5	5	5	5	5	5	5	5



Notes: Location N2 - 1/3 Octave Frequency Analysis

Printed: 11/01/06 15:59:57

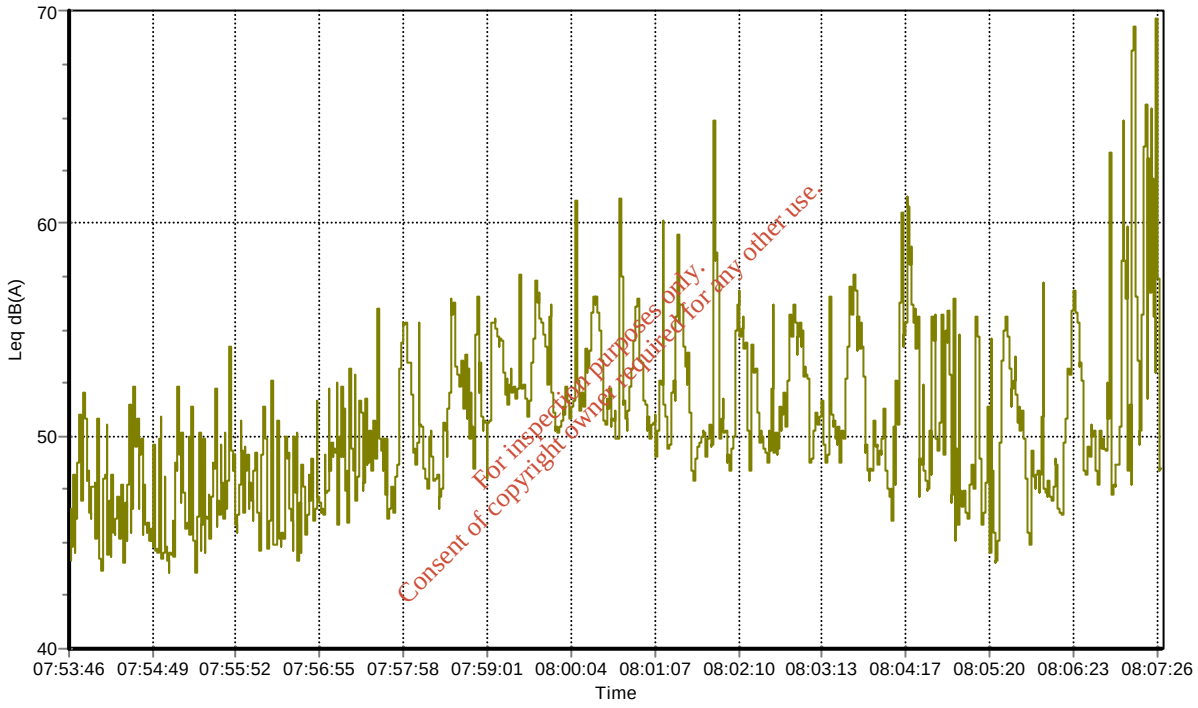
Noise Measurement Report

Date: 15/07/05 Time: 07:53:46

Run Time: 00:13:11
Range: 40-100 dB

Leq	52.0 dBA
Lepd	36.4 dBA
LAE	80.8 dBA
LAFmax	70.0 dBA
Peak	85.7 dBC

L1.0	L10.0	L50.0	L90.0	L95.0	L99.0
150.0 dBA	73.8 dBA	50.1 dBA	45.1 dBA	44.2 dBA	43.1 dBA



Notes: Location N3 - Night time BVroadband Measurement

Printed: 11/01/06 16:45:05

Noise Measurement Report

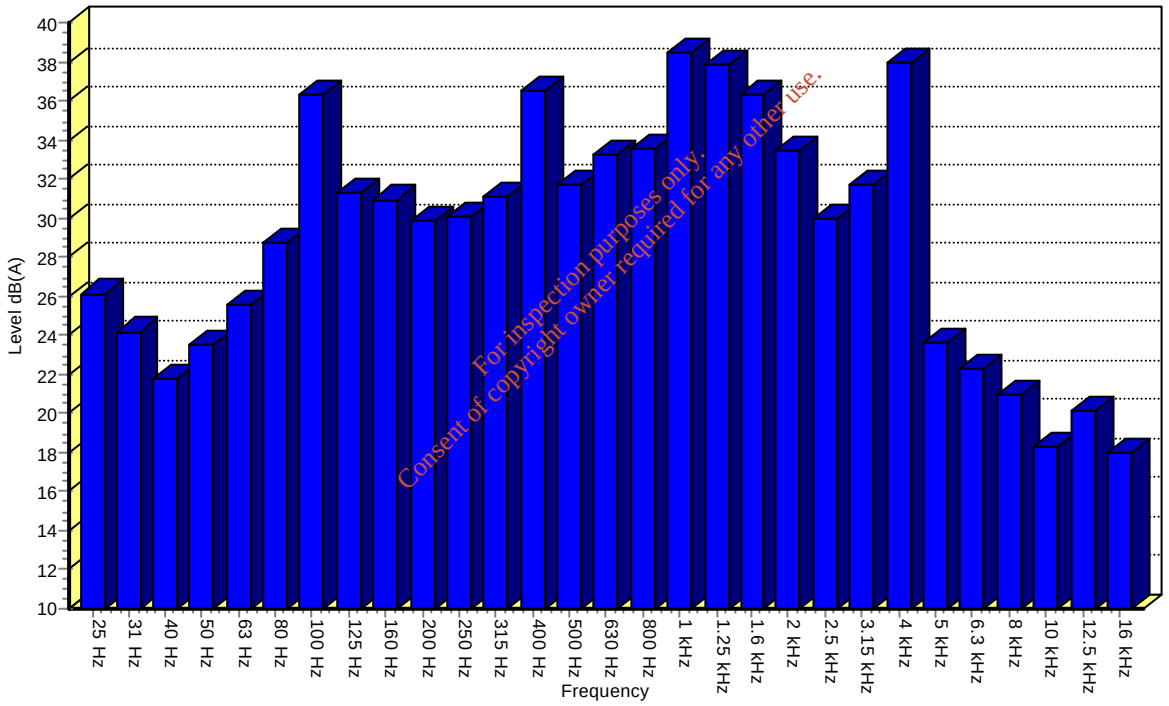
Date: 15/07/05 Time: 07:26:22

Run Time: 00:02:40
Range: 40-100 dB
Spectrum 'A' weighted

Measurement	25 Hz	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz
Level (dB)	26.1	24.2	21.8	23.5	25.6	28.8	36.3	31.3	31.0	29.9	30.0
Duration (s)	5	5	5	5	5	5	5	5	5	5	5

Measurement	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz
Level (dB)	31.1	36.5	31.7	33.3	33.5	38.5	37.9	36.3	33.5	30.0	31.7
	5	5	5	5	5	5	5	5	5	5	5

Measurement	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	LAeq	LCeq	LZeq
Level (dB)	38.0	23.6	22.3	20.9	18.3	20.1	18.0	45.6	66.3	67.0
Duration (s)	5	5	5	5	5	5	5	5	5	5



Notes: Location N3 - Night time 1/3 Octave Frequency Analysis

Printed: 11/01/06 16:47:29

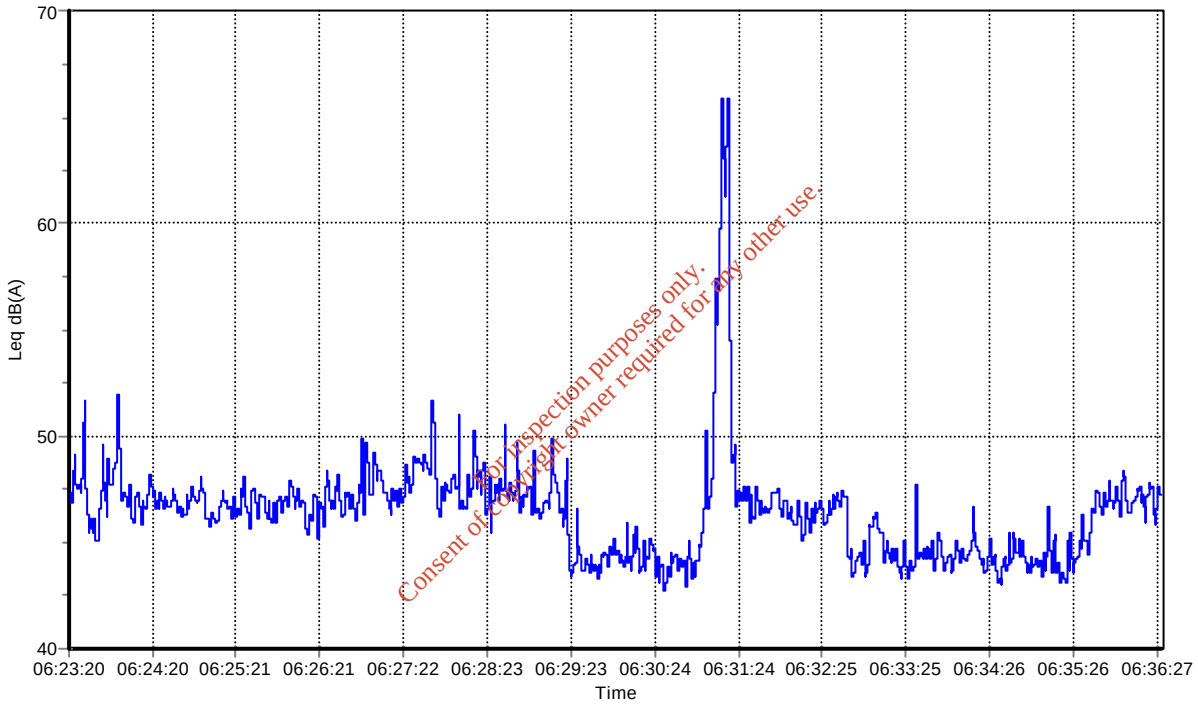
Noise Measurement Report

Date: 15/07/05 Time: 06:23:20

Run Time: 00:13:11
Range: 40-100 dB

Leq	48.3 dBA
Lepd	32.7 dBA
LAE	77.1 dBA
LAFmax	68.4 dBA
Peak	87.1 dBC

L1.0	L10.0	L50.0	L90.0	L95.0	L99.0
55.3 dBA	47.8 dBA	46.1 dBA	43.4 dBA	43.1 dBA	42.6 dBA



Notes: Location N4 - Night time Broadband Measurement

Printed: 11/01/06 16:02:04

Noise Measurement Report

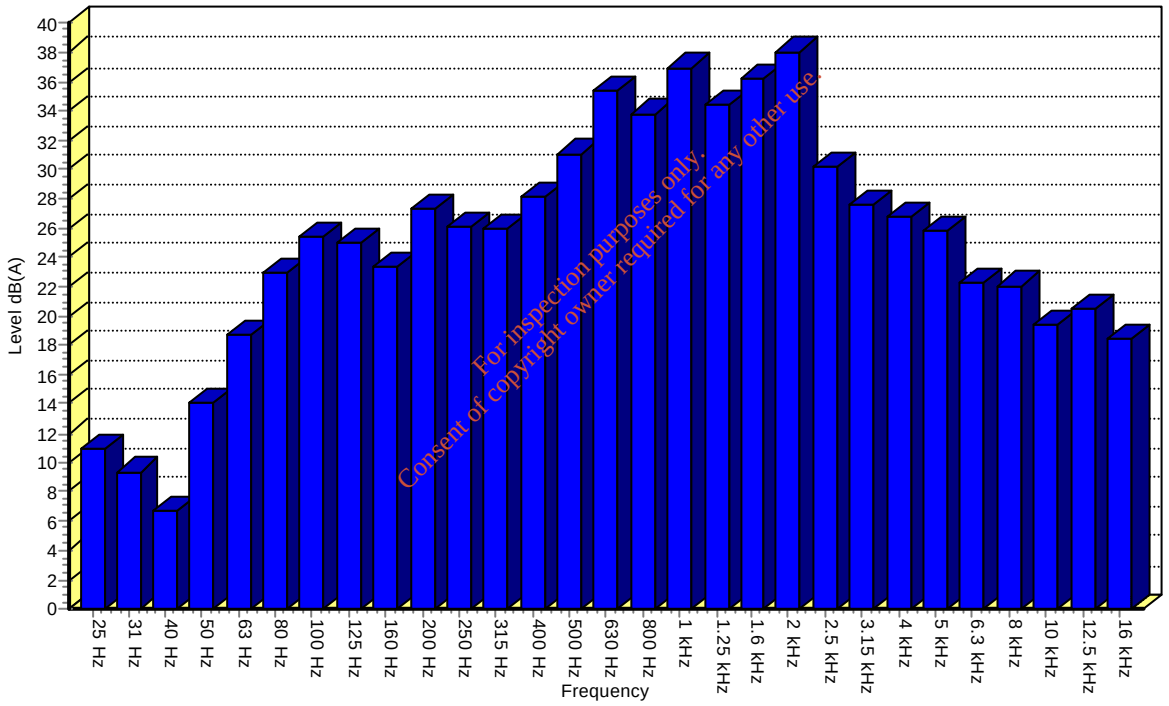
Date: 15/07/05 Time: 06:05:16

Run Time: 00:02:40
Range: 40-100 dB
Spectrum 'A' weighted

Measurement	25 Hz	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz
Level (dB)	10.9	9.4	6.7	14.0	18.7	23.0	25.5	25.0	23.4	27.3	26.0
Duration (s)	5	5	5	5	5	5	5	5	5	5	5

Measurement	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz
Level (dB)	26.0	28.1	31.1	35.3	33.8	37.0	34.5	36.2	38.0	30.2	27.6
	5	5	5	5	5	5	5	5	5	5	5

Measurement	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	LAeq	LCeq	LZeq
Level (dB)	26.8	25.8	22.3	22.1	19.4	20.6	18.5	44.4	62.7	73.9
Duration (s)	5	5	5	5	5	5	5	5	5	5



Notes: Location N4 - NIght time 1/3 Octave Frequency Anlaysis

Printed: 11/01/06 17:05:29

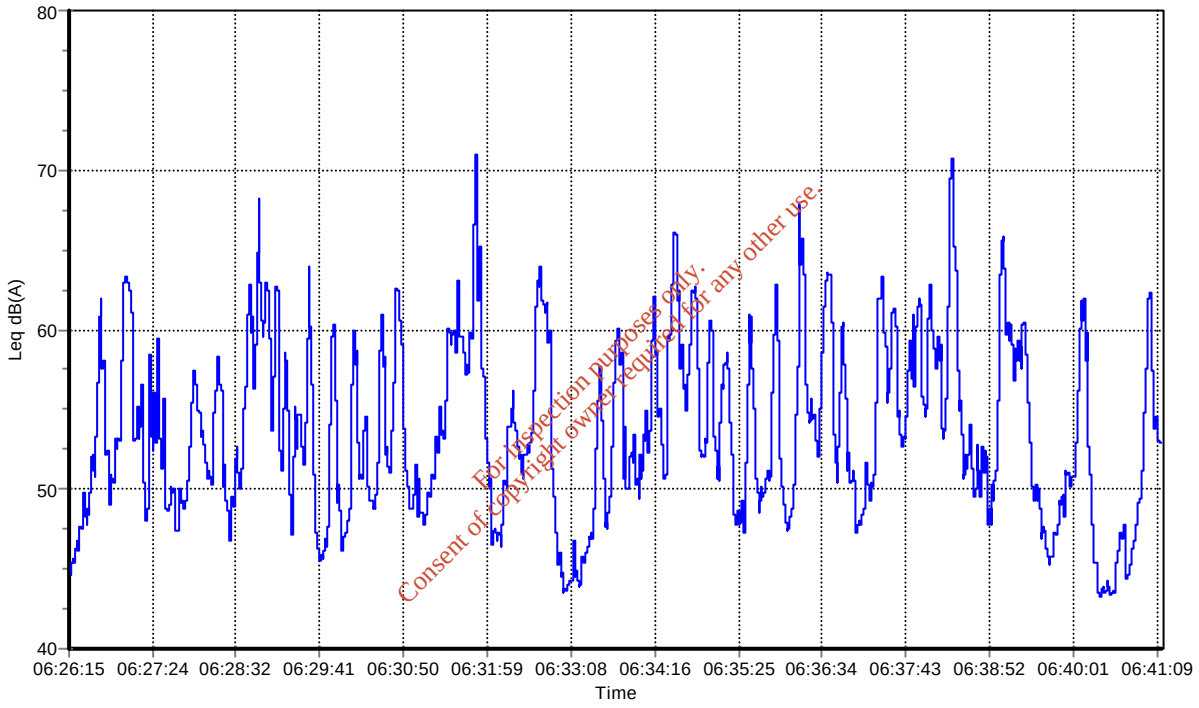
Noise Measurement Report

Date: 15/07/05 Time: 06:26:15

Run Time: 00:15:00
Range: 40-100 dB

Leq	57.3 dBA
Lepd	42.2 dBA
LAE	86.7 dBA
LAFmax	75.5 dBA
Peak	98.0 dBC

L1.0	L10.0	L50.0	L90.0	L95.0	L99.0
150.0 dBA	150.0 dBA	53.5 dBA	46.2 dBA	44.7 dBA	42.9 dBA



Notes: NSL 1 - Night time Broadband Measurement

Printed: 31/08/05 14:02:07

Noise Measurement Report

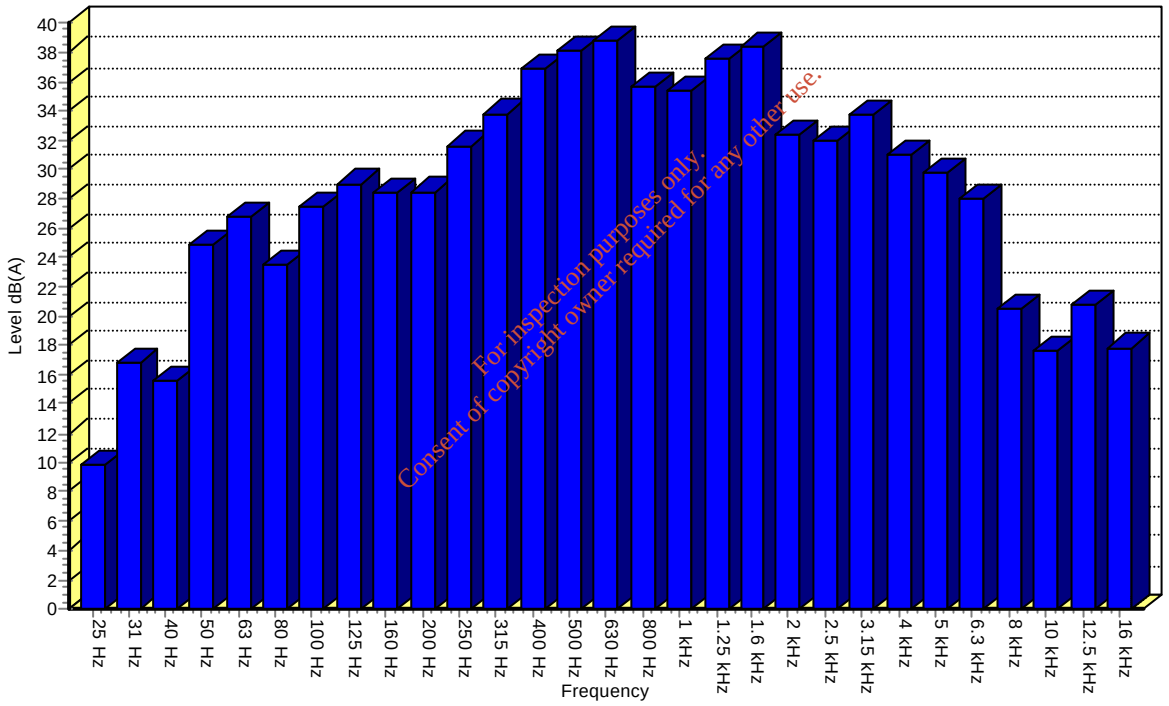
Date: 15/07/05 Time: 06:37:03

Run Time: 00:02:40
Range: 40-100 dB
Spectrum 'A' weighted

Measurement	25 Hz	31 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz
Level (dB)	9.8	16.8	15.5	24.9	26.7	23.5	27.5	29.0	28.4	28.5	31.6
Duration (s)	5	5	5	5	5	5	5	5	5	5	5

Measurement	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz
Level (dB)	33.8	36.9	38.1	38.8	35.6	35.3	37.6	38.4	32.4	31.9	33.7
	5	5	5	5	5	5	5	5	5	5	5

Measurement	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz	12.5 kHz	16 kHz	LAeq	LCeq	LZeq
Level (dB)	30.9	29.8	28.0	20.4	17.6	20.8	17.8	47.7	63.3	65.3
Duration (s)	5	5	5	5	5	5	5	5	5	5



Notes: NSL 1 - Night time 1/3 Octave Frequency Analysis Measurement

Printed: 31/08/05 14:02:43

APPENDIX 2.6.1

Surface Water Results

Waste Licence

Register Number: 124-1
Licensee: Carbury Mushrooms Limited
Location of Facility: Carbury, County Kildare

D.4 Emissions to Water

Location: (SW1) As discharge from the piped stream to the Cushaling River (SW1)

(SW1) Discharge point to the Cushaling River

Parameter (mg/1 except for pH, temp)	Emission Limit Value	Monitoring Frequency	Date 10/01/06	Date 10/10/05
PH	6 - 9	Quarterly	7.23	7.82
Biochemical oxygen demand (BOD)	20	Quarterly	11	8.8
Suspended Solids (SS)	30	Quarterly	21	14
Total N	15	Quarterly	36	18.6
Orthophosphate (as P)	1	Quarterly	1	1.54
Temperature	23^{0}C	Quarterly	11.4	15.4

(RW1) 30metres downstream of the discharge point (SW1) to Cushaling River

Parameter (mg/1 except for pH, temp)	Emission Limit Value	Monitoring Frequency	Date 10/01/06	Date 10/10/05	Date 10/08/05	Date 13/04/05	Date 12/01/05
PH	6 - 9	Quarterly	7.48	7.79	8.3	8.2	7.5
Biochemical oxygen demand (BOD)	20	Quarterly	3.8	3.4	2	< 2	< 2
Suspended Solids (SS)	30	Quarterly	9.5	2.4	< 5	5	27
Total N	15	Quarterly	0.32	2.2	0.35	2.8	4.5
Orthophosphate (as P)	1	Quarterly	0.13	0.07	0.1	< 0.16	0.02
Temperature	23^{0}C	Quarterly	10.2	14.2			

(RW2) 30metres upstream of the discharge point (SW1) to Cushaling River

Parameter (mg/1 except for pH, temp)	Emission Limit Value	Monitoring Frequency	Date 10/01/06	Date 10/10/05	Date 10/08/05	Date 13/04/05	Date 12/01/05
PH	6 - 9	Quarterly	7.52	7.76	8.6	7.8	7.6
Biochemical oxygen demand (BOD)	20	Quarterly	3.5	2.8	2	< 2	< 2
Suspended Solids (SS)	30	Quarterly	10.2	2.6	5	17	15
Total N	15	Quarterly	0.22	2	0.32	2.71	4.5
Orthophosphate (as P)	1	Quarterly	0.11	0.42	0.09	< 0.16	0.02
Temperature	23^0C	Quarterly	10.3	14.1			

Waste Licence

Register Number: 124-1
Licensee: Carbury Mushrooms Limited
Location of Facility: Carbury, County Kildare

D.5 Emissions to Water (Effluent treatment plant)

Location: (ETP-1) Discharge from Puraflo effluent treatment plant

Parameter (mg/1 except for pH, temp)	Emission Limit Value	Monitoring Frequency	Date 10/01/06	Date 10/10/05	Date 11/07/05	Date 04/10/04
PH	6 - 9	Bi-Annual	6.37	7.02		6.8
Biochemical oxygen demand (BOD)	20	Bi-Annual	6	6.4	< 2	4
Suspended Solids (SS)	30	Bi-Annual	27	9.6	< 5	45
Total Ammonia (as N)	5	Bi-Annual	9.12	47		3.31
Orthophosphate (as P)	1	Bi-Annual	1.4	4.73	0.17	4.82
Total Phosphorus (as P)	2	Bi-Annual	2.6		0.35	4.3
Oils,Fats,Grease	10	Bi-Annual	8			7

APPENDIX 2.9.1

Traffic Information

Appendix 2.9.1

TRAFFICWISE LTD. SURVEYS

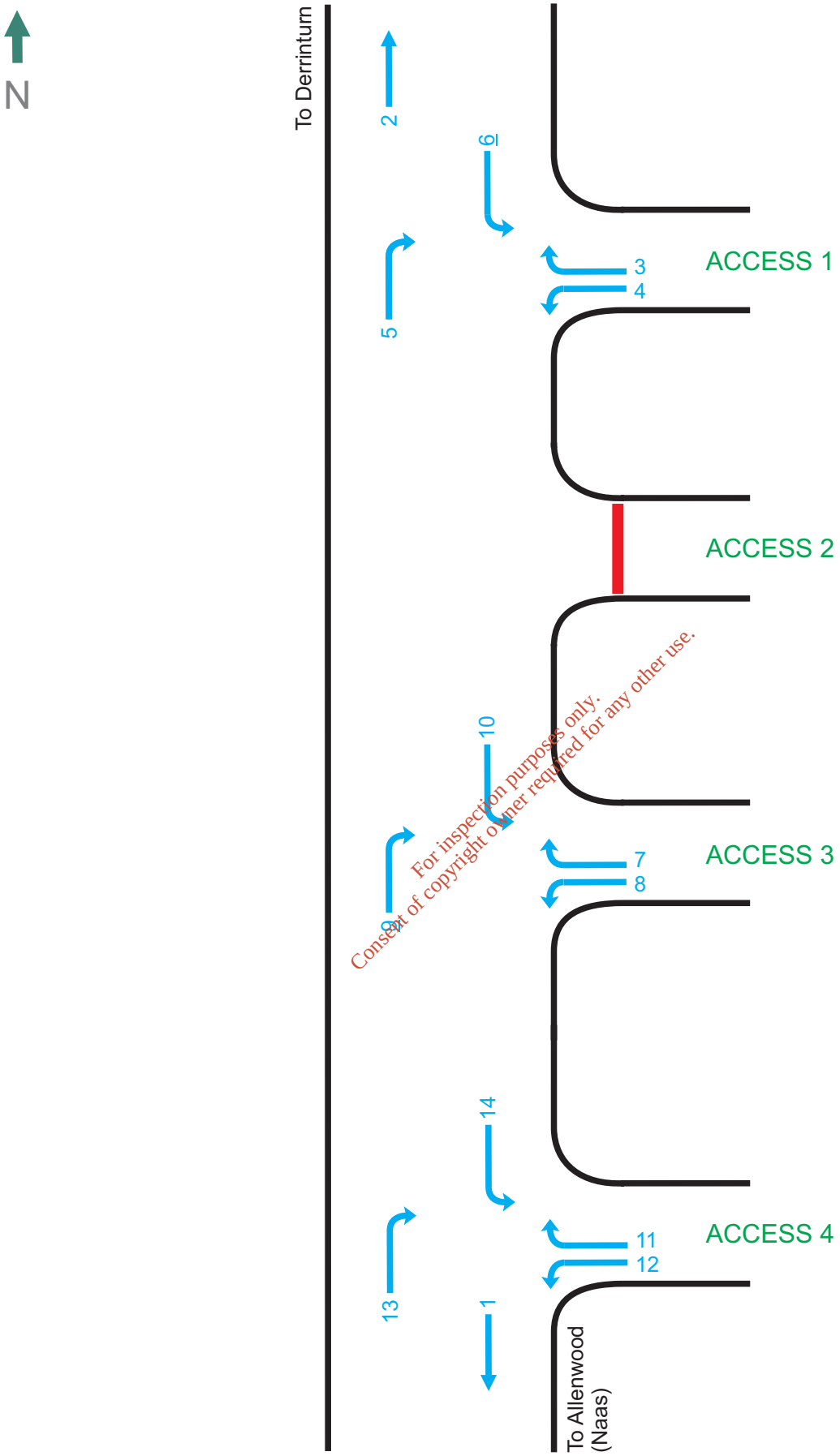
CARBURY MUSHROOMS, DERRINTURN, CO. KILDARE
MANUAL CLASSIFIED JUNCTION COUNT

DATE: 29.04.2006

LOCATION: R403 adjacent to site DAY: Wednesday

	TIME	Movement																							
		1		2		3		4		5		6		7		8		9		10		11		12		13		14	
		CAR	HGV	CAR	HGV	CAR	HGV	CAR	HGV	CAR	HGV	CAR	HGV	CAR	HGV	CAR	HGV	CAR	HGV	CAR	HGV	CAR	HGV	CAR	HGV	CAR	HGV
	16:00	35	7	38	6	1		1						1				1				2				1		1	
	16:15	27	9	47	5	1	1		2													1	1	1					
	16:30	22	9	56	4	1								2								2		1					
	16:45	40	10	63	5				1			1		1	1									1					
	17:00	39	9	66	4	1		1				1		1				1		1		2				1			
	17:15	49	9	65	9	2		1		1		1		1								1							
Peak Hour	17:30	31	10	71	2																	2	1						
	17:45	47	3	81	2	2		2								1						3							
	18:00	30	1	62	3	1																		1					
	18:15	34	2	58	3																								
	18:30	24	0	72	2							1										2		2					
	18:45	28	2	49	4									1								1							

Movement 1 - Carbury to Allenwood (R403)
Movement 2 - Allenwood to Carbury (R403)
Movement 3 - Access 1 to Carbury
Movement 4 - Access 1 to Allenwood
Movement 5 - Allenwood to Access 1
Movement 6 - Carbury to Access 1
Movement 7 - Access 3 to Carbury
Movement 8 - Access 3 to Allenwood
Movement 9 - Allenwood to Access 3
Movement 10 - Carbury to Access 3
Movement 11 - Access 4 to Carbury
Movement 12 - Access 4 to Allenwood
Movement 13 - Allenwood to Access 4
Movement 14 - Carbury to Access 4



Trafficwise traffic & transportation solutions

Bracetown Business Park,
Clonee,
Dublin.

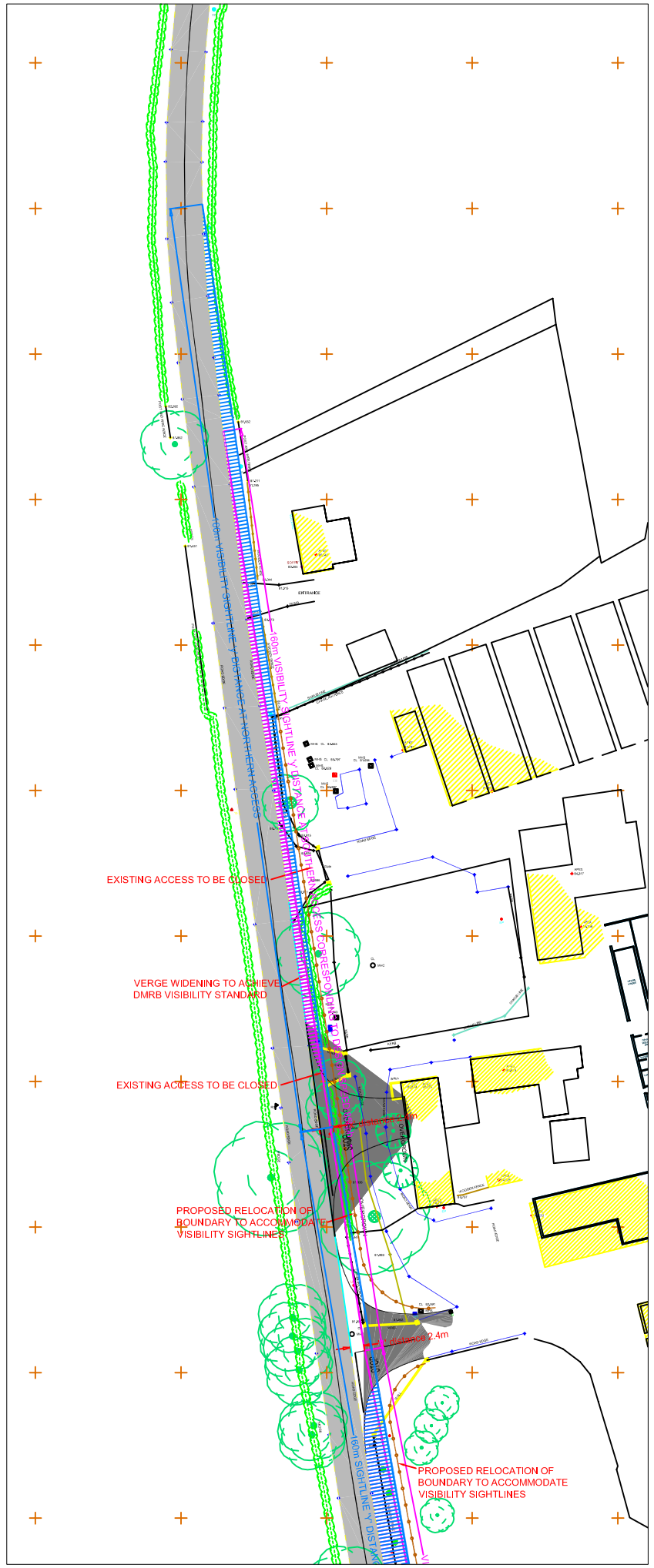
Telephone: +353 (0)1 8014009
Fax: +353 (0)1 8014035

Website: www.trafficwise.ie
E-mail: info@trafficwise.ie

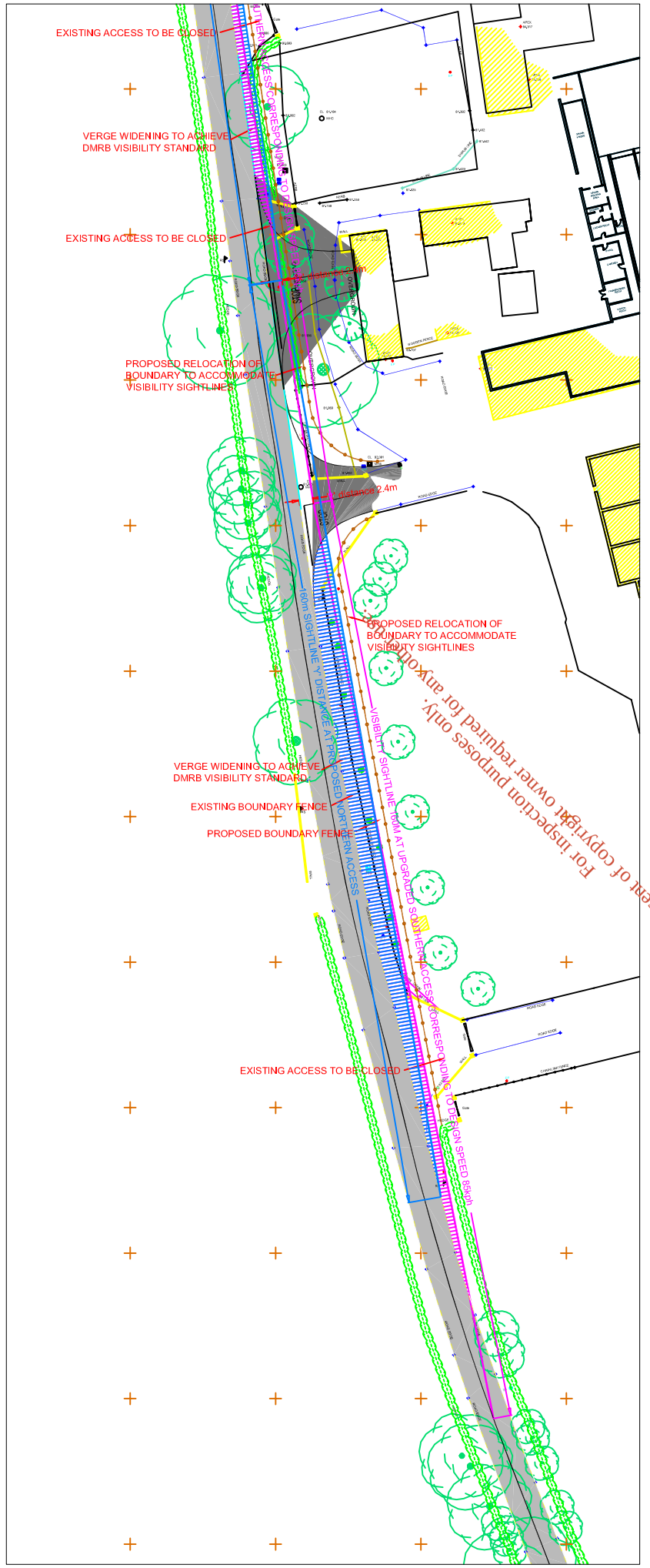
Project/Job Title **Carbury Mushrooms, Co Kildare**

Drawing Title **Surveyed Traffic Movements March 2006**

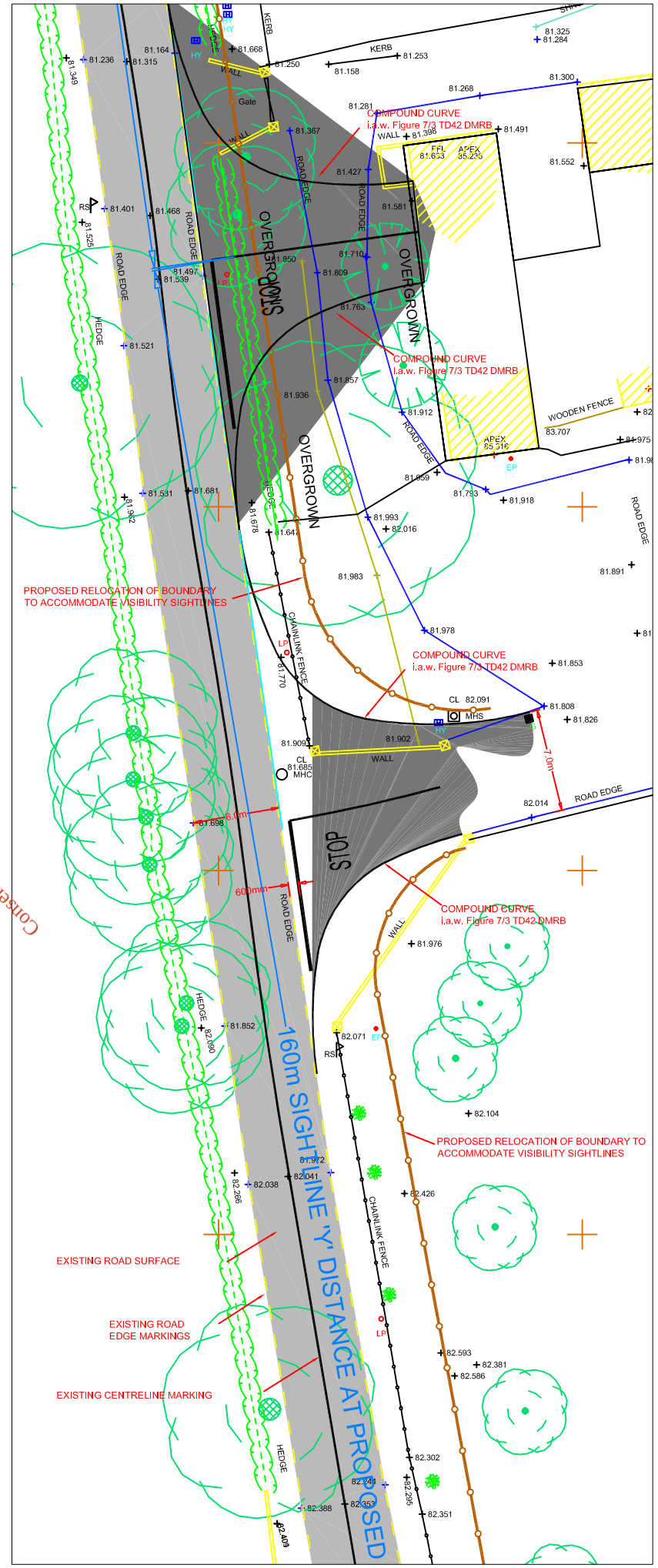
Drawn by:	Checked by:	Approved by:
David Ashe	Barry May	Julian Keenan
Date: May 2006	Date: May 2006	Date: May 2006
Scale: N.T.S	JOB No: 02724	Figure 1
	Appendix 2.9	



VISIBILITY SIGHTLINES TO NORTH (1:500)



VISIBILITY SIGHTLINES TO SOUTH (1:500)



GENERAL ARRANGEMENT OF UPGRADED ACCESS (1:200)

NOTES

Rev	Amendment	Drawn	Checked	Approved	Date

Traffic wise traffic & transportation solutions
Bracetown Business Park,
Clonee, Co Dublin.
Tel: +353 (0)1 801 4009
Fax: +353 (0)1 801 4035
Email: info@trafficwise.ie
Website: www.trafficwise.ie

Carbury Mushrooms
White Young Green

Existing Carbury Mushrooms Proposed Site Development Works

Proposed Site Access Arrangements
Improvement to Existing Access Geometry
Including Visibility Sightline Assessment

1 of 1

DRAWN	CHECKED	APPROVED
DAshe	JKeenan	JKeenan
DATE	DATE	DATE
May 2006	May 2006	May 2006

SCALE	JOB No.	REV
As Shown	02724	*

DWG No. 02724/01/01/PL01

APPENDIX 2.10.1

Photo-plates

Photo-plates

Photoprint 1

Photopoint 2

Photoprint 3

Photopoint 4

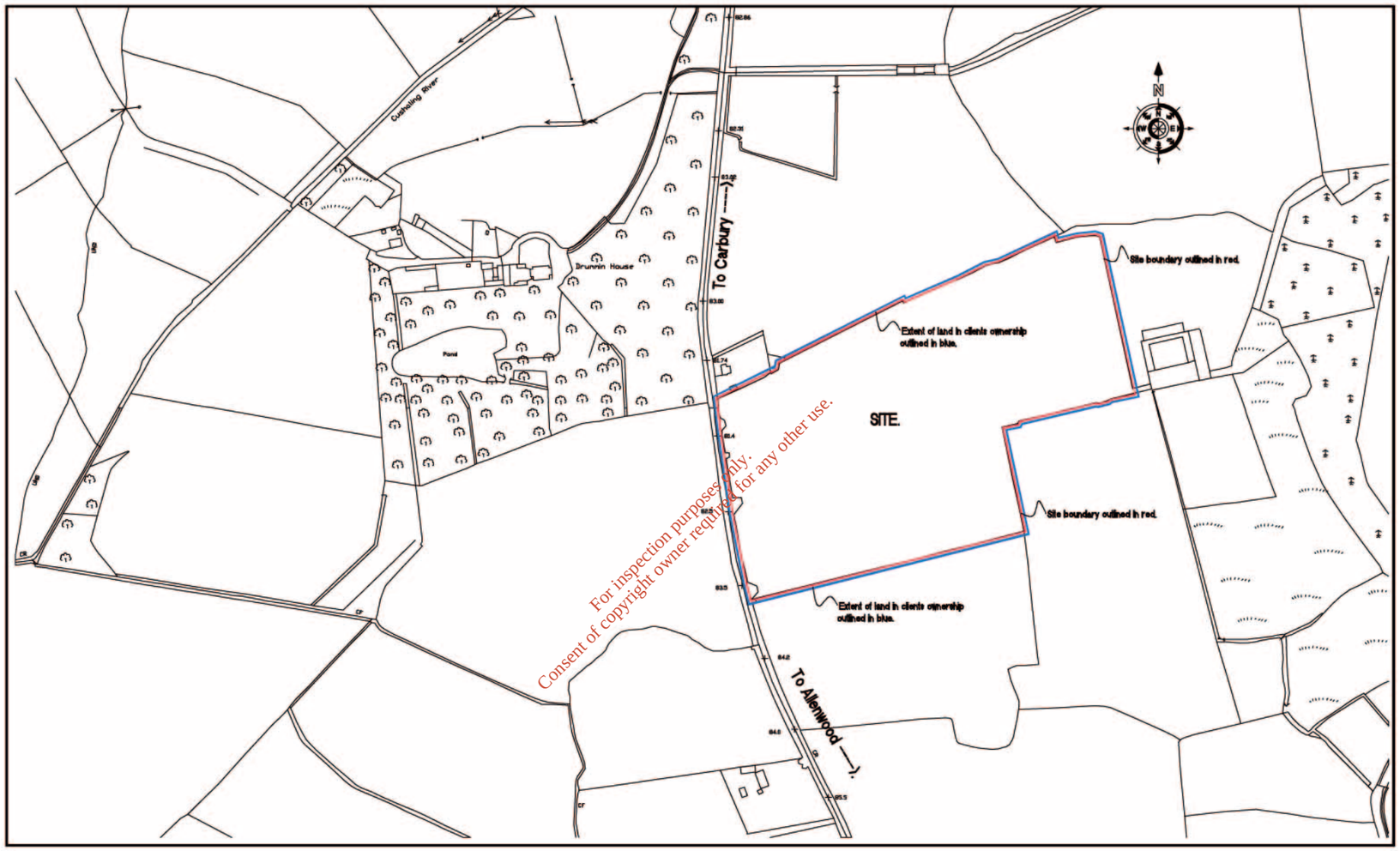
Photopoint 5

Photopoint 6

Photopoint 7

SECTION SIX

File Ref:



SITE LOCATION PLAN

SCALE 1 : 2500

Drummin Td.

O.S. Sheet No. - 3317-B, 3317-D, 3318-A, 3318-C.

Licence No. - EN 0007604

Sheet Title:

PLANNING DRAWING ONLY

IMPORTANT:

THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.

Revisions:

Scales: 1 : 2500	Date: 05-05-2006
Designed By: CARBURY COMPOST Ltd.	
Drawn by: B. THORNTON	Checked:

Job Title: PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRUMMIN Td, KILDARE.

Dwg. No. 3154/PL-'06-101 Site Location Plan | Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects, Building Surveyors, Fire Engineers.
MONAGHAN Rd., CASTLEBLAYNEY, Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cth@cspringle.com

File Ref:

NOTE:
Site dimensions and boundaries are for planning purposes only and as such are not to be used as evidence of title.

NOTE:
Existing buildings to be demolished shown dotted.

NOTE:
Please refer to traffic report for site entrance details.

To Carbury

Existing dwelling house.

Location of proposed new site entrance.

Location of proposed new site entrance.

Approximate location of public site notice.

Proposed wheel wash.

Proposed fuel tank and bund wall.

Proposed 30m weighbridge.

Existing Well.

Proposed wheel wash.

Ex. ESB Substation.

Proposed weighbridge.

Existing Phase 2/3 Composting - Tunnel Building, to be retained.

Site boundary outlined in red.

Extent of land in clients ownership outlined in blue.

Existing septic tank.

Existing Well.

Existing control room.

Collection Sumps.

Existing drain.

Site boundary outlined in red.

Diversion point for storm water discharging to existing drain.

Petrol / Oil Interceptor.

Site boundary outlined in red.

Approximate location of proposed straw bale storage area.

Site boundary outlined in red.

Approximate location of proposed straw bale storage area.

Extent of land in clients ownership outlined in blue.

Existing farm buildings.

Proposed new Phase 1 Composting - Bunker Building.

Site boundary outlined in red.

Proposed new Phase 2/3 Composting - Tunnel Building.

Tanks

Existing buildings to be retained.

Site boundary outlined in red.

Extent of land in clients ownership outlined in blue.

80 No. Car parking spaces.

To Allenwood

CF

N

NW NE W E SW SE S

SITE LAYOUT PLAN - 01
Proposed and Existing

SCALE 1:1000

LEGEND	
Process Water	
Storm / Roof Water	
Foul Sewer to Ex Septic Tank	
Yard Gully Connection to Fuel Interceptor	
Yard Gully	
Exiting Drain to North Boundary	

Sheet Title:

PLANNING DRAWING ONLY

IMPORTANT:
THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.

Revisions:

Scales: 1:1000 | Date: 05-05-2006

Designed By: CARBURY COMPOST Ltd.

Drawn by: B. THORNTON | Checked:

Job Title: PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRAMIN Td, KILDARE.

Dg. No. 3154CPL-'06-102 Site Layout Plan 01 | Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects, Building Surveyors, Fire Engineers.
MONAGHAN Rd., CASTLEBLAYNEY, Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cs@cspringle.com

File Ref:

NOTE:
Site dimensions and boundaries are for planning purposes only and as such are not to be used as evidence of title.

NOTE:
Please refer to traffic report for site entrance details.

To Carbury

To Allenwood

CF

Existing dwelling house.

Existing control room.

Collection Sumps.

Existing drain.

Existing septic tank.

Existing Well.

Extent of land in clients ownership outlined in blue.

Site boundary outlined in red.

Proposed weighbridge.

Existing Well.

Location of proposed new site entrance.

Proposed wheel wash.

Ex. ESB Substation.

Location of proposed new site entrance.

Approximate location of public site notice.

Proposed wheel wash.

Proposed fuel tank and bund wall.

Existing Phase 2/3 Composting - Tunnel Building, to be retained.

Tanks

Existing buildings to be retained.

Site boundary outlined in red.

Extent of land in clients ownership outlined in blue.

80 No. Car parking spaces.

Approximate location of proposed straw bale storage area.

Site boundary outlined in red.

Approximate location of proposed straw bale storage area.

Extent of land in clients ownership outlined in blue.

Existing farm buildings.

Proposed new Phase 1 Composting - Bunker Building.

Site boundary outlined in red.

Proposed new Phase 2/3 Composting - Tunnel Building.

N

NW NE W E SW SE S

SITE LAYOUT PLAN - 02
Proposed Only
SCALE 1:1000

LEGEND	
Process Water	
Storm / Roof Water	
Foul Sewer to Ex Septic Tank	
Yard Gully Connection to Fuel Interceptor	
Yard Gully	
Existing Drain to North Boundary	

Sheet Title:

PLANNING DRAWING ONLY

IMPORTANT:
THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.

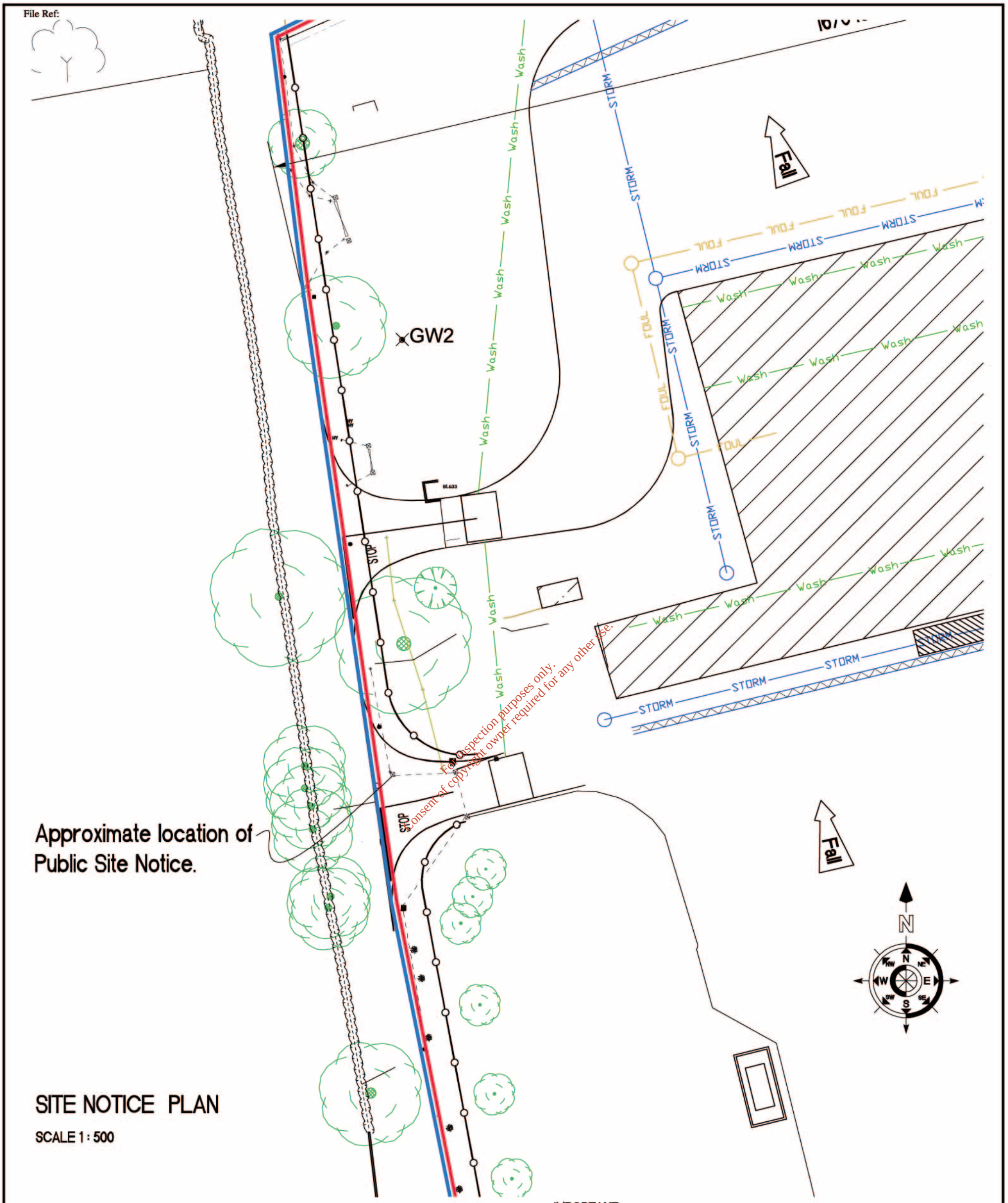
Revisions:

Scales: 1:1000
Date: 05-05-2008
Designed By: CARBURY COMPOST Ltd.
Drawn by: B. THORNTON
Checked:

Job Title: PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRAMIN Td, KILDARE.
Dg. No. 3154CPL-'08-103
Site Layout Plan 02
Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects, Building Surveyors, Fire Engineers.
MONAGHAN Rd, CASTLEBLAYNEY, Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cs@cspringle.com

File Ref:



Approximate location of Public Site Notice.

SITE NOTICE PLAN

SCALE 1 : 500

IMPORTANT:

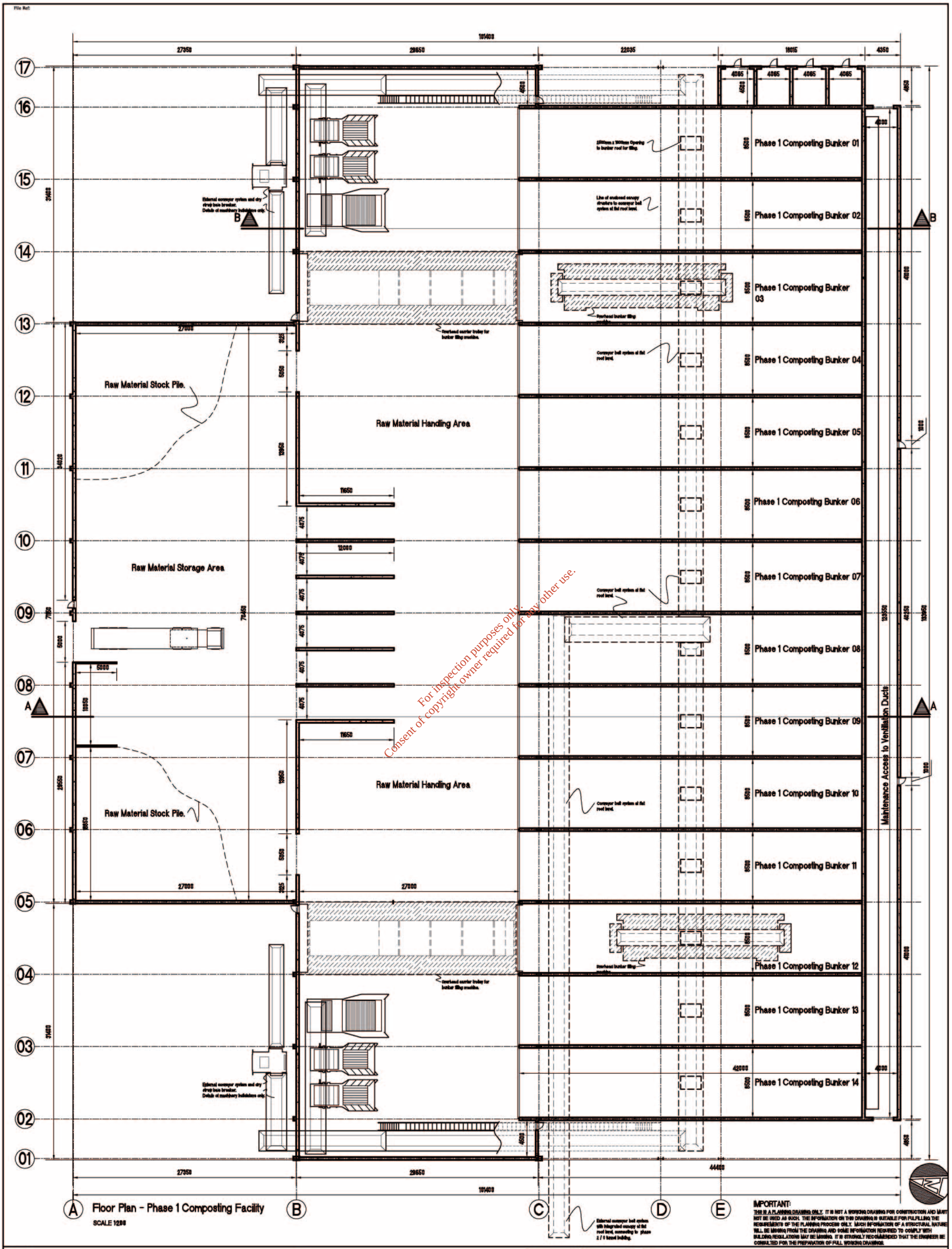
THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.

PLANNING DRAWING ONLY

Revisions:

Scales: 1 : 500	Date: 05-05-2006	Job Title: PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY CARBURY COMPOST Ltd. DRUMMIN Td., KILDARE.	C. S. PRINGLE LTD. Consulting Engineers, Architects, Building Surveyors, Fire Engineers. MONAGHAN Rd., CASTLEBLAYNEY, Co.MONAGHAN, IRELAND. Tel: 042-9746492 Fax: 042-9746511 E-Mail: cb@cspringle.com
Designed By: CARBURY COMPOST Ltd.			
Drawn by: B. Thornton	Checked:	Drg. No. 3154CPL-'06-1.04 Site Notice Plan	Rev. No.

File Ref:



Floor Plan - Phase 1 Composting Facility

SCALE 1:200

External conveyor belt system with integrated canopy at flat roof level, connecting to phase 2 / 3 tunnel building.

IMPORTANT:
THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.

Sheet Title:

PLANNING DRAWING ONLY

Revisions:

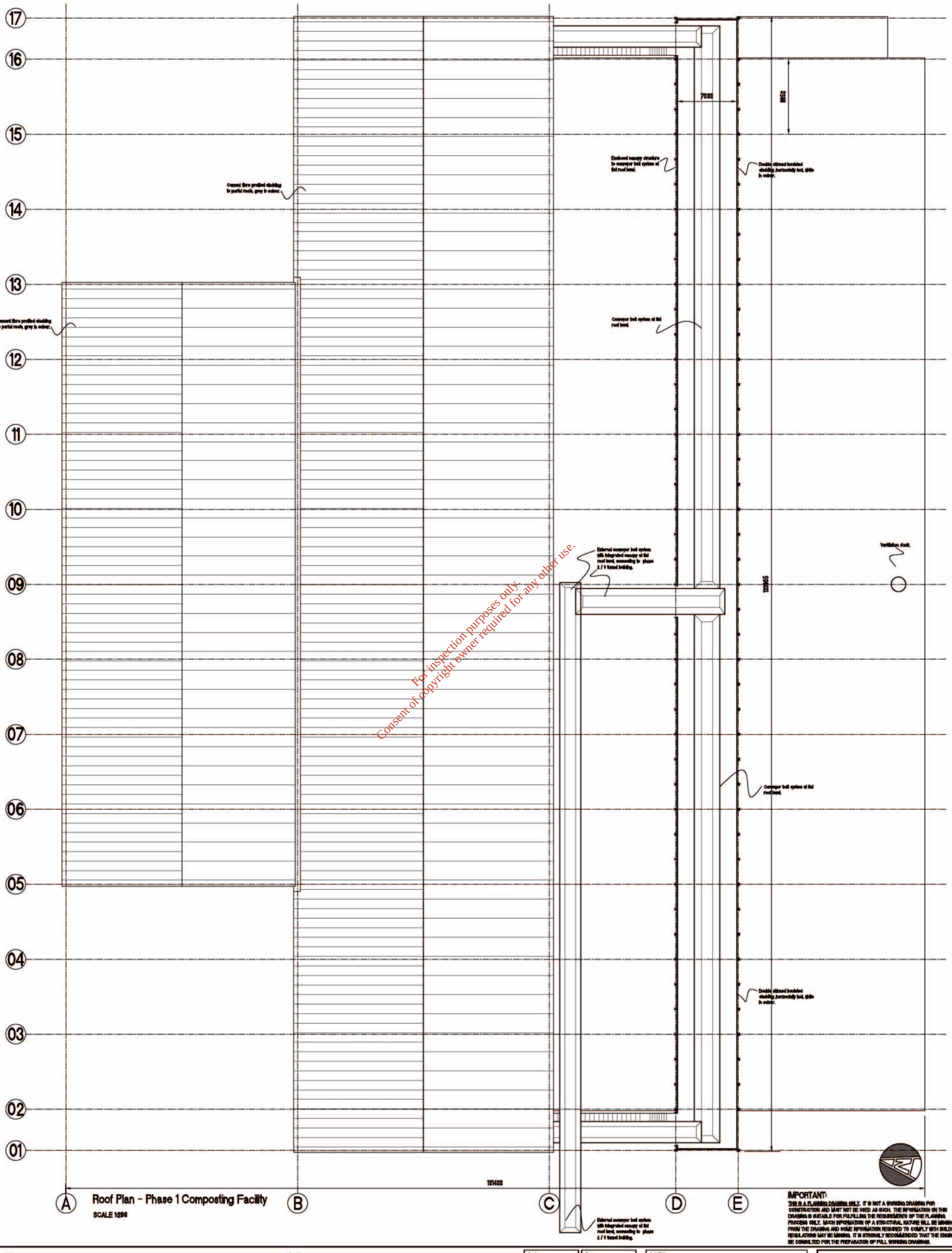
Scales: 1 : 200	Date: 05-05-2006
Designed By: CARBURY COMPOST Ltd.	
Drawn by: B. THORNTON	Checked:

Job Title:
PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRUMMIN Td, KILDARE.

Drg. No. 3154CPL-'06-2.01 Bunker Building - Floor Plan | Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects, Building Surveyors, Fire Engineers.
MONAGHAN Rd., CASTLEBLAYNEY, Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cb@cspringle.com

File Ref:



Roof Plan - Phase 1 Composting Facility

SCALE 1:200

IMPORTANT:

THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.

Sheet Title:

PLANNING DRAWING ONLY

Revisions:

Scales: 1 : 200	Date: 05-05-2006
Designed By: CARBURY COMPOST Ltd.	
Drawn by: B. THORNTON	Checked:

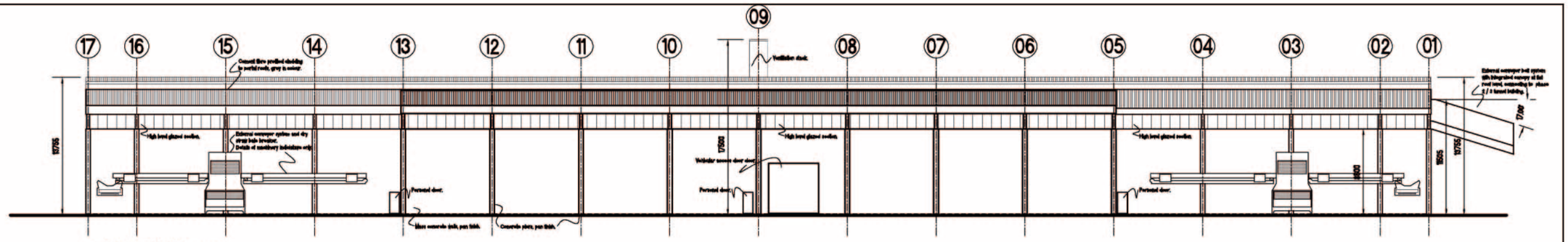
Job Title: PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRUMMIN Td, KILDARE.

Drg. No. 3154CPL-'06-202 Bunker Building - Roof Plan

Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects, Building Surveyors, Fire Engineers.
MONAGHAN Rd., CASTLEBLAYNEY, Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cb@cspringle.com

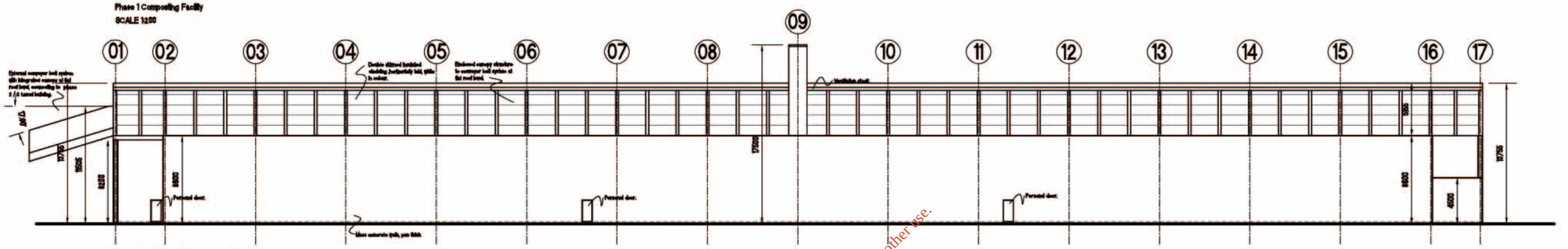
File Ref:



FRONT ELEVATION - North

Phase 1 Composting Facility

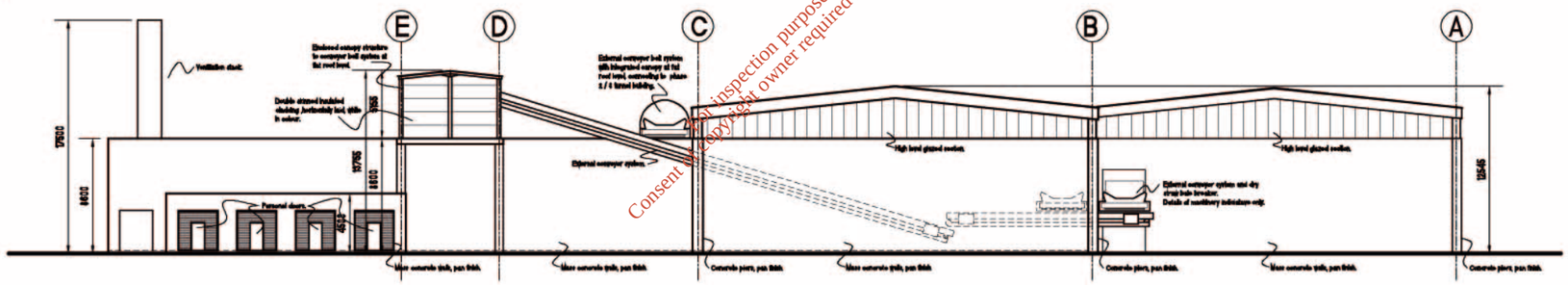
SCALE 1:200



FRONT ELEVATION - South

Phase 1 Composting Facility

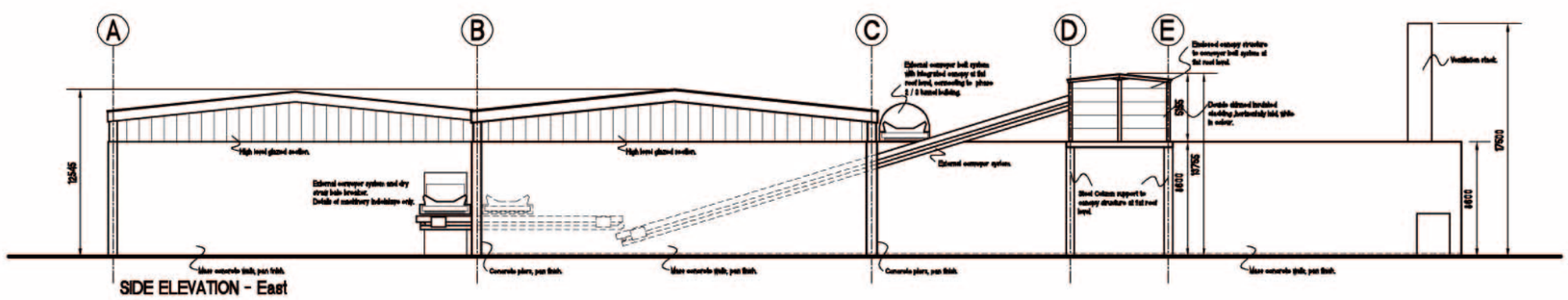
SCALE 1:200



SIDE ELEVATION - West

Phase 1 Composting Facility

SCALE 1:200



SIDE ELEVATION - East

Phase 1 Composting Facility

SCALE 1:200

Sheet Title:

PLANNING DRAWING ONLY

IMPORTANT:

THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.

Revisions:

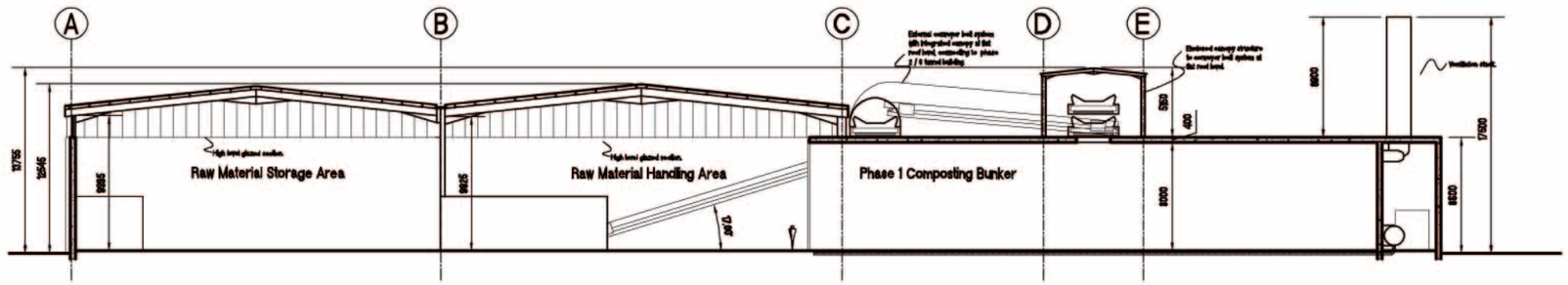
Scales: 1 : 200	Date: 05-05-2008
Designed By: CARBURY COMPOST Ltd.	
Drawn by: B. THORNTON	Checked:

Job Title: PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRAUMIN Td, KILDARE.

Dwg. No. 3154CPL-"08-2.03 Bunker Building - Elevations | Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects,
Building Surveyors, Fire Engineers.
MONAGHAN Rd, CASTLEBLAYNEY,
Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cs@cspringle.com

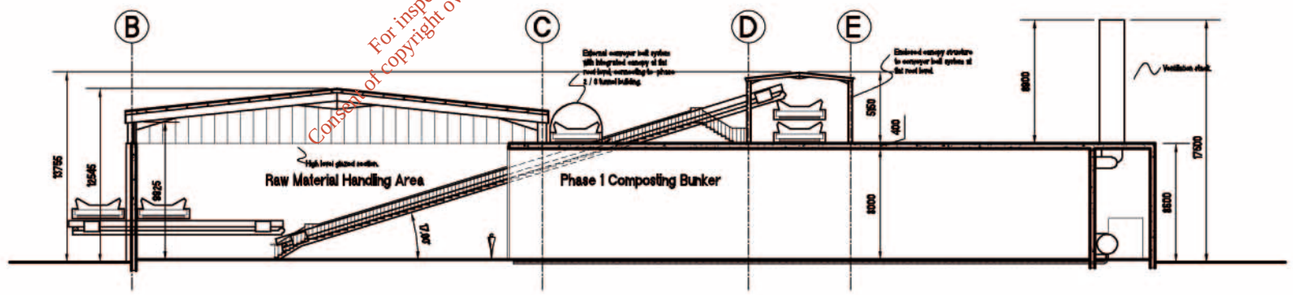
File Ref:



SECTION A-A

Phase 1 Composting Facility

SCALE 1:200



SECTION B-B

Phase 1 Composting Facility

SCALE 1:200

Sheet Title:

PLANNING DRAWING ONLY

IMPORTANT:

THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.

Revisions:

Scales: 1 : 200	Date: 05-05-2006
Designed By: CARBURY COMPOST Ltd.	
Drawn by: B. THORNTON	Checked:

Job Title: PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRUMIN Td, KILDARE.

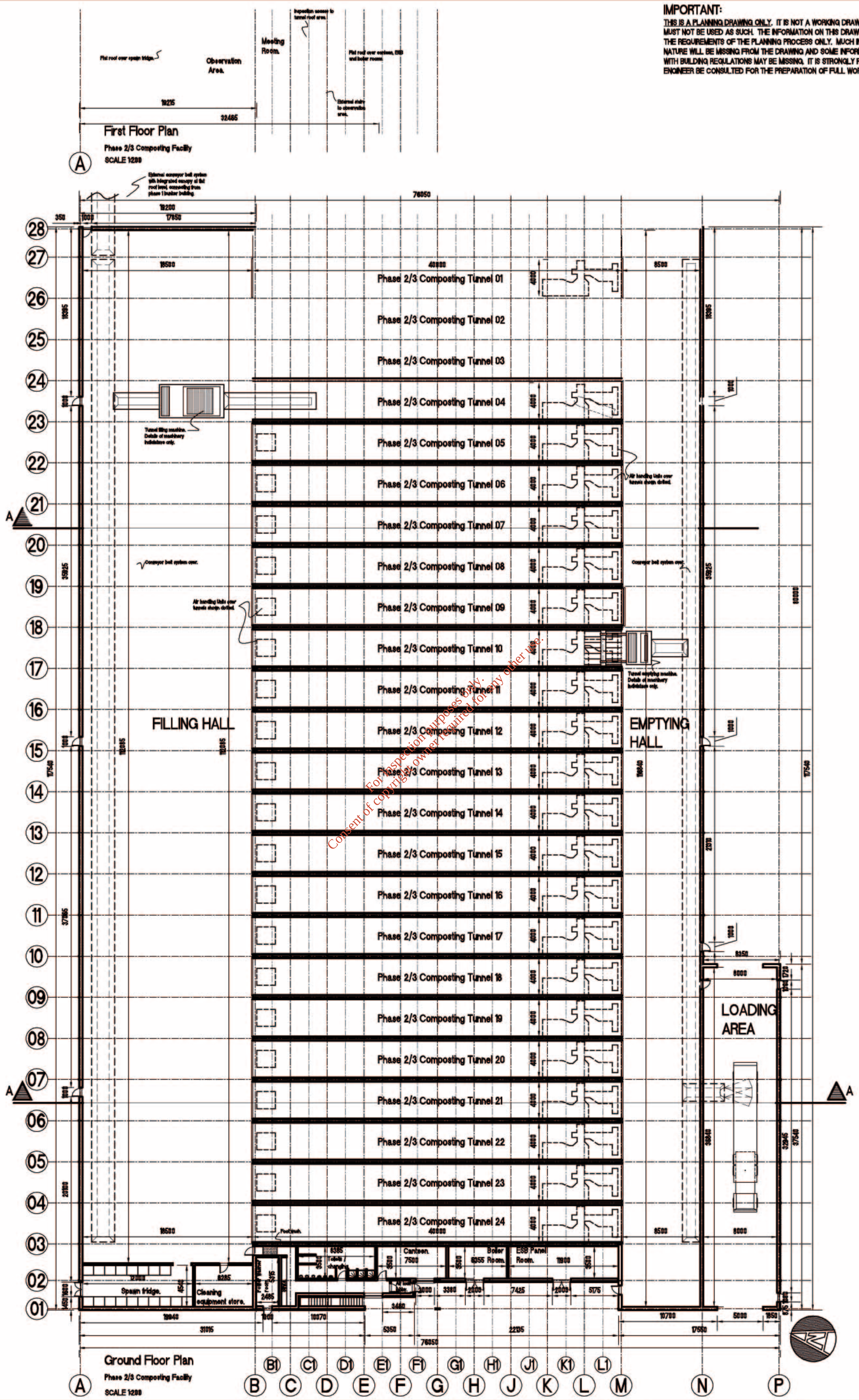
Dwg. No. 3154CPL-'06-2.04 Bunker Building - Sections | Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects,
Building Surveyors, Fire Engineers.
MONAGHAN Rd., CASTLEBLAYNEY,
Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cs@cspringle.com

File Ref:

IMPORTANT:

THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.



Flat roof over spawn fridge.
Observation Area.
Meeting Room.
Inspection access to tunnel roof area.
Flat roof over canteen, ESB and boiler rooms.
External stairs to observation area.
19215
32465
First Floor Plan
Phase 2/3 Composting Facility
SCALE 1:200
External conveyor belt system with integrated canopy at flat roof level, connecting from phase 1 bunker building.
76050
19200
17850
18500
40800
8500
Phase 2/3 Composting Tunnel 01
Phase 2/3 Composting Tunnel 02
Phase 2/3 Composting Tunnel 03
Phase 2/3 Composting Tunnel 04
Phase 2/3 Composting Tunnel 05
Phase 2/3 Composting Tunnel 06
Phase 2/3 Composting Tunnel 07
Phase 2/3 Composting Tunnel 08
Phase 2/3 Composting Tunnel 09
Phase 2/3 Composting Tunnel 10
Phase 2/3 Composting Tunnel 11
Phase 2/3 Composting Tunnel 12
Phase 2/3 Composting Tunnel 13
Phase 2/3 Composting Tunnel 14
Phase 2/3 Composting Tunnel 15
Phase 2/3 Composting Tunnel 16
Phase 2/3 Composting Tunnel 17
Phase 2/3 Composting Tunnel 18
Phase 2/3 Composting Tunnel 19
Phase 2/3 Composting Tunnel 20
Phase 2/3 Composting Tunnel 21
Phase 2/3 Composting Tunnel 22
Phase 2/3 Composting Tunnel 23
Phase 2/3 Composting Tunnel 24
Tunnel filling machine. Details of machinery indicative only.
Air handling Units over tunnels shown dotted.
Conveyor belt system over.
Tunnel emptying machine. Details of machinery indicative only.
FILLING HALL
EMPTYING HALL
LOADING AREA
Spawn fridge.
Cleaning equipment store.
Canteen. 7500
Boiler Room.
ESB Panel Room.
Footbath.
Ground Floor Plan
Phase 2/3 Composting Facility
SCALE 1:200

Sheet Title:

PLANNING DRAWING ONLY

Revisions:

Scales: 1 : 200	Date: 05-05-2006
Designed By: CARBURY COMPOST Ltd.	
Drawn by: B. THORNTON	Checked:

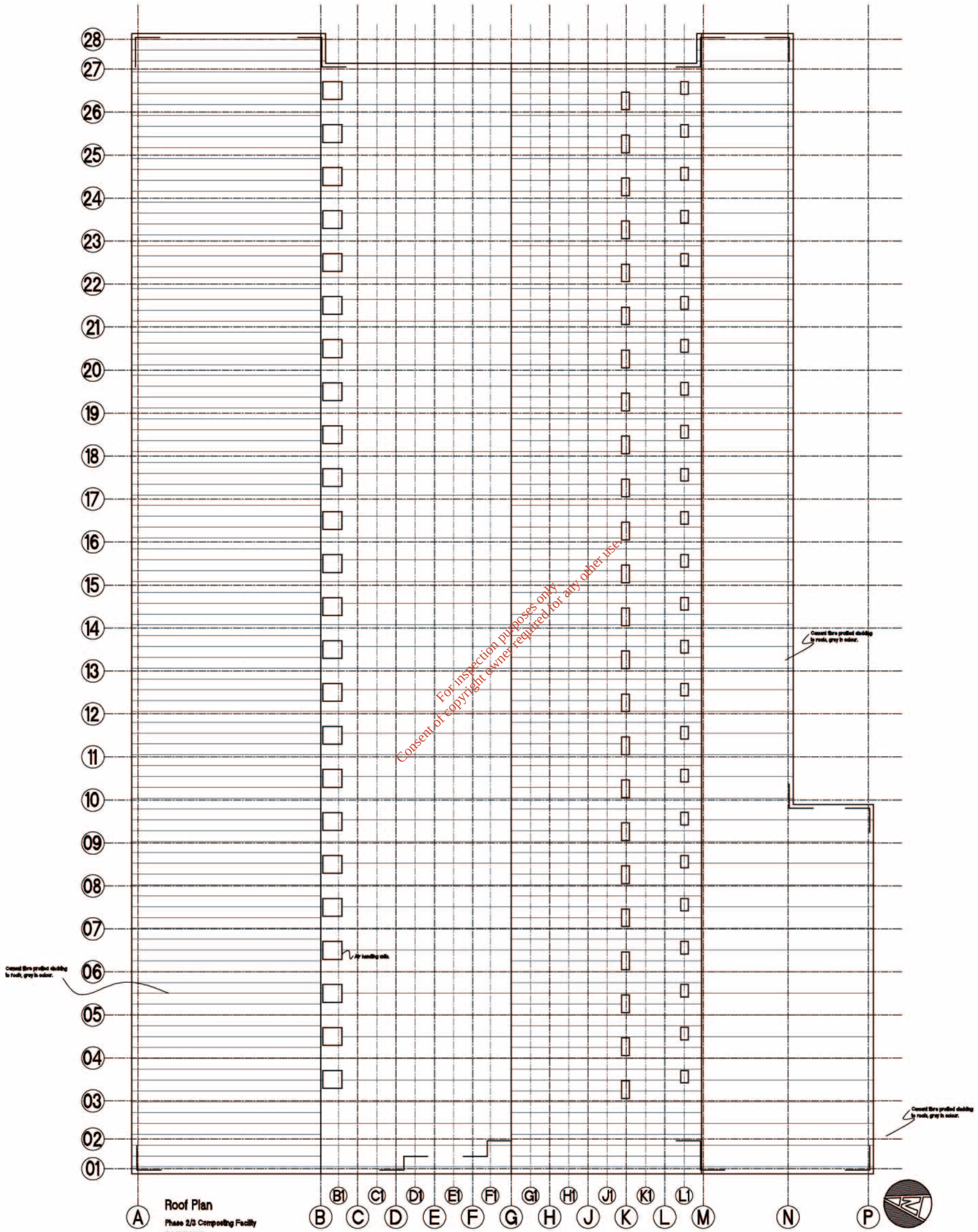
Job Title:
PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRUMMIN Td, KILDARE.

Drg. No. 3154CPL-'06-3.01 Tunnel Building - Floor Plan

Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects, Building Surveyors, Fire Engineers.
MONAGHAN Rd., CASTLEBLAYNEY, Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cb@cspringle.com

File Ref:



Roof Plan

Phase 2/3 Composting Facility

SCALE 1:200

Sheet Title:

PLANNING DRAWING ONLY

Revisions:

Scales: 1 : 200	Date: 05-05-2006
Designed By: CARBURY COMPOST Ltd.	
Drawn by: B. THORNTON	Checked:

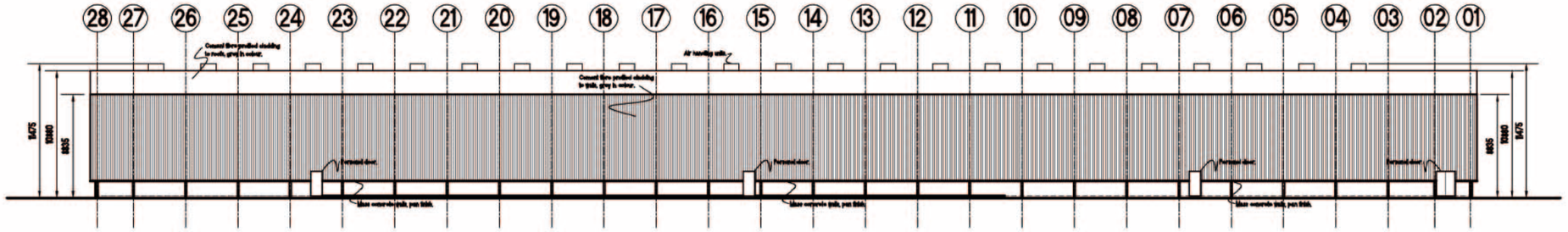
Job Title:
PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRUMMIN Td, KILDARE.

Drg. No. 3154CPL-'05-3.02
Tunnel Building - Roof Plan

Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects,
Building Surveyors, Fire Engineers.
MONAGHAN Rd., CASTLEBLAYNEY,
Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cs@cspringle.com

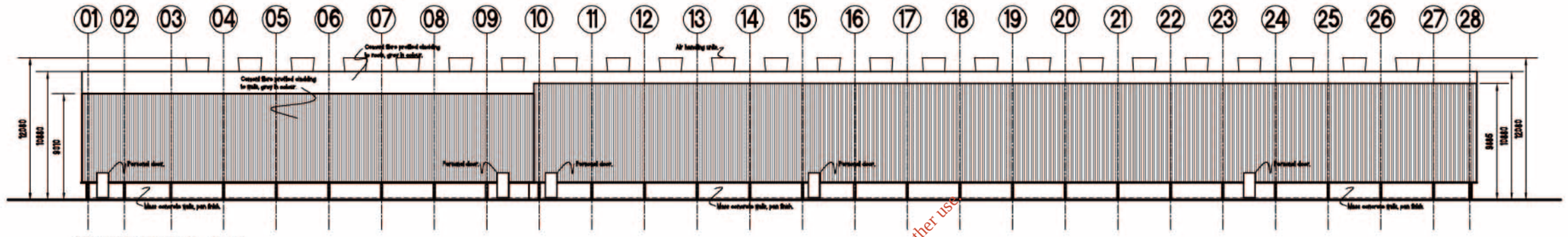
File Ref:



FRONT ELEVATION - North

Phase 2/3 Composting Facility

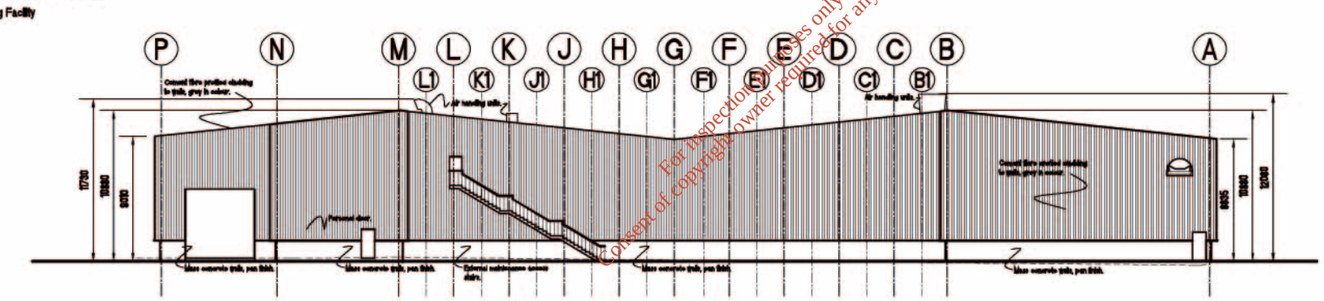
SCALE 1:200



FRONT ELEVATION - South

Phase 2/3 Composting Facility

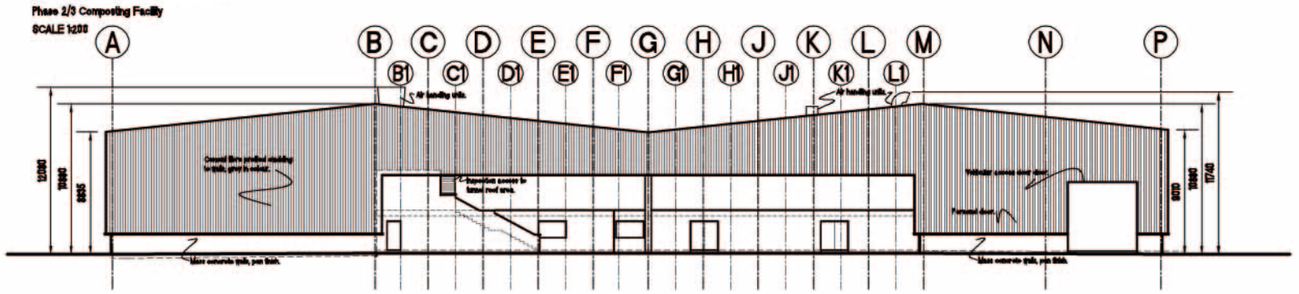
SCALE 1:200



FRONT ELEVATION - West

Phase 2/3 Composting Facility

SCALE 1:200



FRONT ELEVATION - East

Phase 2/3 Composting Facility

SCALE 1:200

Sheet Title:

PLANNING DRAWING ONLY

IMPORTANT:

THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.

Revisions:

Scales: 1:200	Date: 05-05-2008
Designed By: CARBURY COMPOST Ltd.	
Drawn by: B. THORNTON	Checked:

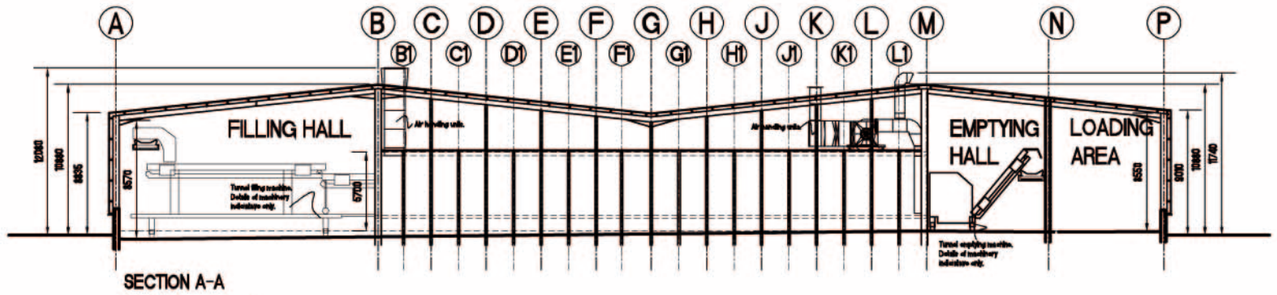
Job Title: PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRAUMIN Td, KILDARE.

Dwg. No. 3154CPL-'08-3.03 Tunnel Building - Elevations

Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects, Building Surveyors, Fire Engineers.
MONAGHAN R4. CASTLEBLAYNEY, Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cs@cspringle.com

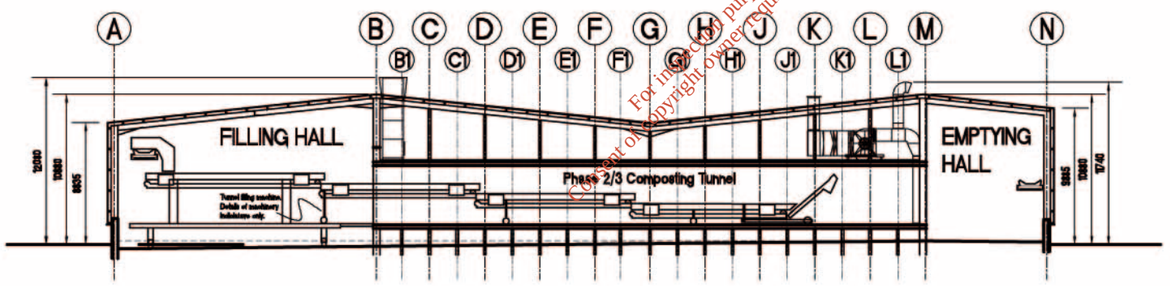
File Ref:



SECTION A-A

Phase 2/3 Composting Facility

SCALE 1:200



SECTION B-B

Phase 2/3 Composting Facility

SCALE 1:200

Sheet Title:

PLANNING DRAWING ONLY

IMPORTANT:

THIS IS A PLANNING DRAWING ONLY. IT IS NOT A WORKING DRAWING FOR CONSTRUCTION AND MUST NOT BE USED AS SUCH. THE INFORMATION ON THIS DRAWING IS SUITABLE FOR FULFILLING THE REQUIREMENTS OF THE PLANNING PROCESS ONLY. MUCH INFORMATION OF A STRUCTURAL NATURE WILL BE MISSING FROM THE DRAWING AND SOME INFORMATION REQUIRED TO COMPLY WITH BUILDING REGULATIONS MAY BE MISSING. IT IS STRONGLY RECOMMENDED THAT THE ENGINEER BE CONSULTED FOR THE PREPARATION OF FULL WORKING DRAWINGS.

Revisions:

Scales: 1:200	Date: 05-05-2008
Designed By: CARBURY COMPOST Ltd.	
Drawn by: B. THORNTON	Checked:

Job Title: PROPOSED NEW PHASE 1, 2 + 3 COMPOSTING FACILITY
CARBURY COMPOST Ltd.
DRAMIN Td, KILDARE.

Dwg. No. 3154CPL-'08-3.04 Tunnel Building - Sections

Rev. No.

C. S. PRINGLE LTD.
Consulting Engineers, Architects, Building Surveyors, Fire Engineers.
MONAGHAN Rd., CASTLEBLAYNEY, Co.MONAGHAN, IRELAND.
Tel: 042-9746492
Fax: 042-9746511
E-Mail: cs@cspringle.com