

APPENDIX

N ROAD TRAFFIC NOISE IMPACT STUDY

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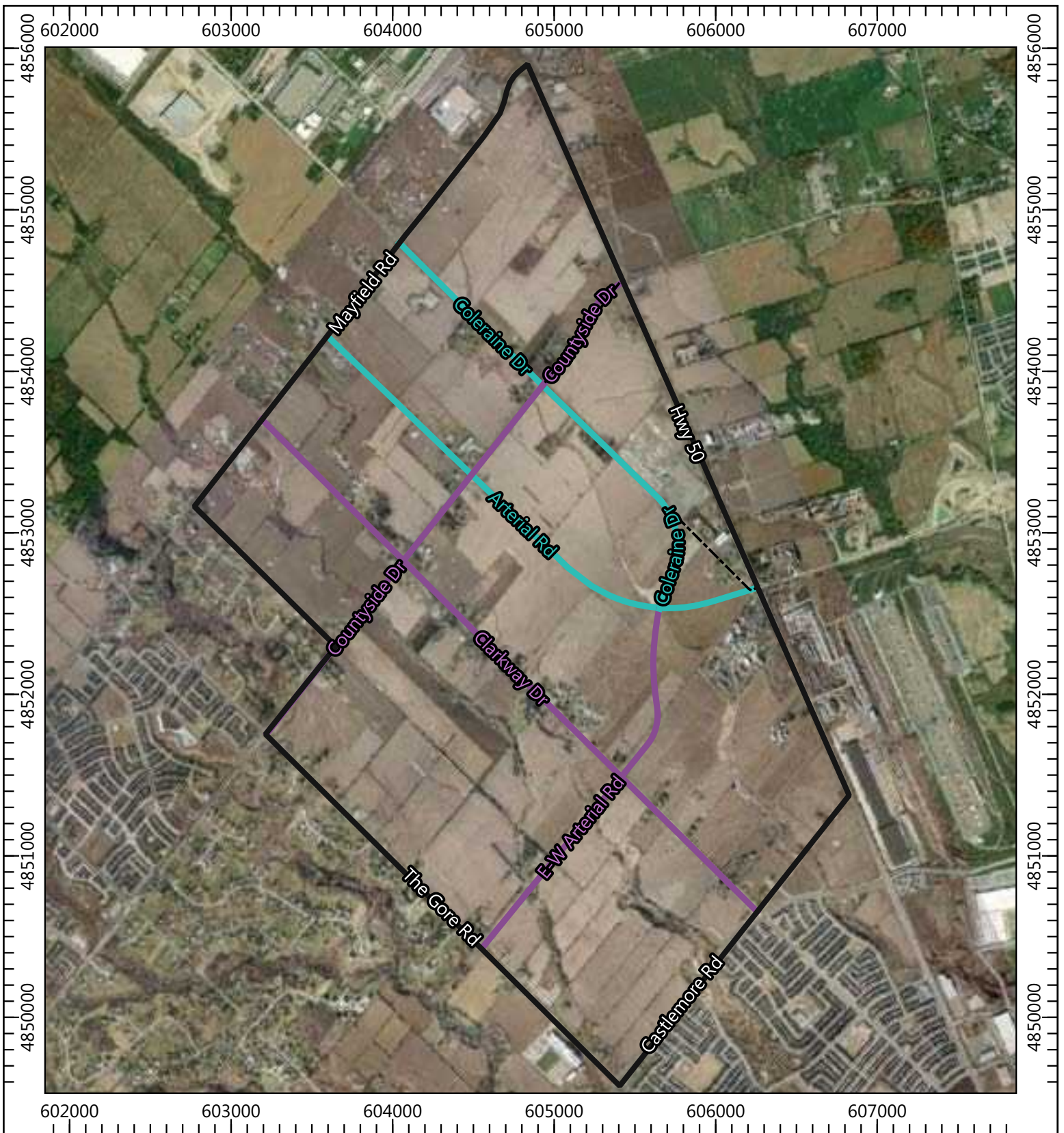
APPENDIX

N-2 ROAD TRAFFIC NOISE IMPACT STUDY (APPENDIX A-C)







Appendix A
Study Area Figure

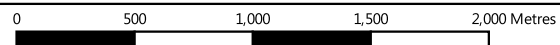




LEGEND

-  Study Area
-  Road (owned by the city)
-  Road (owned by the region)
-  Road (re-configuration proposed)

Source: ESRI
 Datum & Projection:
 NAD83 / UTM zone 17N



wood.

**Road Traffic Noise Impact Assessment
 Industrial Secondary Plan Area (Area 47)**

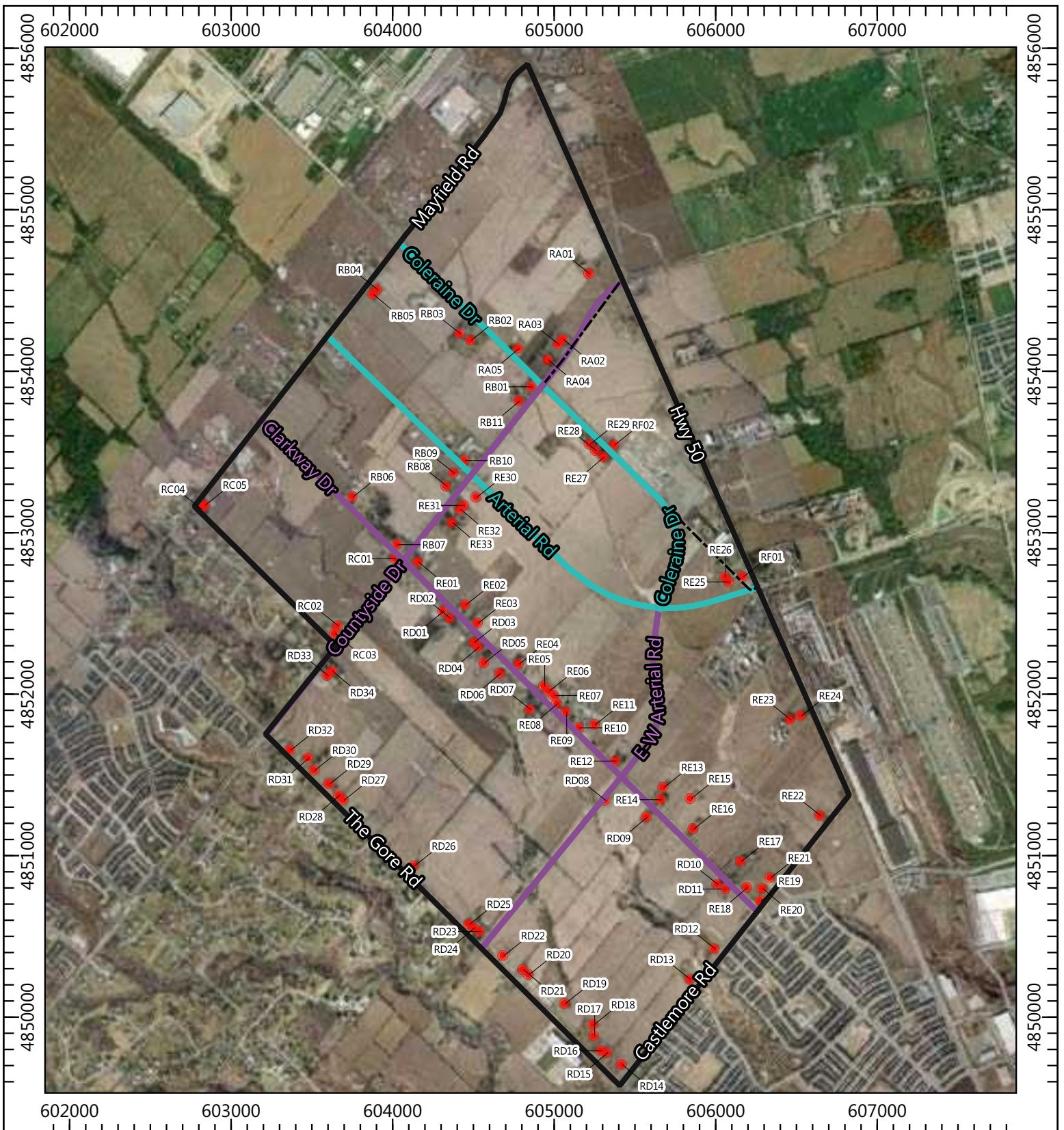
Study Area

PROJECT NO: TP115086






FIGURE: A-1

SCALE: 1:32000

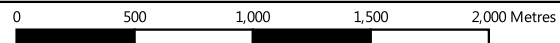
DATE: September 2020



LEGEND

-  Study Area
-  Receptor
-  Road (owned by the city)
-  Road (owned by the region)
-  Road (re-configuration proposed)

Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

**Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)**

Receptors within the Study Area

PROJECT NO: TP115086

FIGURE: A-2

SCALE: 1:32000

DATE: September 2020



Appendix B
Summary of Traffic Data



Existing (2013)

ID	Road	Road Segment	AM Peak Hour				PM Peak Hour				Estimated AADT	Traffic Split		Truck Percentages		Speed (km/h)	Average Vehicles/hour			
			WB	EB	NB	SB	WB	EB	NB	SB		Day (% of AADT)	Night (% of AADT)	Heavy (% of AADT)	Medium (% of AADT)		Day		Night	
																	7:00	23:00	23:00	7:00
																	16	hours	8	hours
1a	Mayfield Rd	Hwy 50	837	245			268	547			10,820	90%	10%	5%	5%	60	609	135		
1b	Mayfield Rd	Hwy 50 to Coleraine	540	355			447	483			11,625	90%	10%	5%	5%	80	654	145		
1c	Mayfield Rd	Coleraine to A2	561	627			717	583			16,250	90%	10%	5%	5%	80	914	203		
1d	Mayfield Rd	A2 to Mayfield	563	573			751	665			17,700	90%	10%	5%	5%	80	996	221		
2a	Countryside Dr	Clarkway to A2	428	1,094			1,225	886			26,388	90%	10%	5%	5%	70	1484	330		
2b	Countryside Dr	A2 to Coleraine	142	266			249	182			5,388	90%	10%	5%	5%	70	303	67		
2c	Countryside Dr	Coleraine to Hwy 50	118	276			234	149			4,788	90%	10%	5%	5%	70	269	60		
2d	Countryside Dr	Hwy 50	319	455			642	341			12,288	90%	10%	5%	5%	70	691	154		
3a	Castlemore Rd	Clarkway	819	1,042			1,240	909			26,863	90%	10%	5%	5%	70	1511	336		
3b	Castlemore Rd	Clarkway to the Gore	863	1,135			1,227	915			26,775	90%	10%	5%	5%	70	1506	335		
3c	Castlemore Rd	The Gore	780	848			1,030	761			22,388	90%	10%	5%	5%	70	1259	280		
4a	The Gore Rd	Mayfield			54	389			315	78	4,913	90%	10%	5%	5%	50	276	61		
4b	The Gore Rd	Mayfield to Countryside			92	428			354	98	5,650	90%	10%	5%	5%	50	318	71		
4c	The Gore Rd	Countryside to Castlemore			118	485			505	160	8,313	90%	10%	5%	5%	50	468	104		
4d	The Gore Rd	Castlemore			348	839			763	375	14,225	90%	10%	5%	5%	60	800	178		
5a	Clarkway Dr	Mayfield			17	74			30	75	1,313	90%	10%	5%	5%	70	74	16		
5b	Clarkway Dr	Mayfield to Countryside			17	77			48	26	940	90%	10%	5%	5%	70	53	12		
5c	Clarkway Dr	Countryside to Castlemore			26	128			62	44	1,540	90%	10%	5%	5%	70	87	19		
5d	Clarkway Dr	Castlemore			93	124			124	92	2,700	90%	10%	5%	5%	70	152	34		
6a	Hwy 50	Mayfield			925	1,312			1,165	869	25,425	90%	10%	5%	5%	70	1430	318		
6b	Hwy 50	Countryside to Mayfield			945	1,732			1,446	913	29,488	90%	10%	5%	5%	70	1659	369		
6c	Hwy 50	Major Mackenzie to Countryside			613	2,552			1,394	1,279	33,413	90%	10%	5%	5%	70	1879	418		
6d	Hwy 50	Major Mackenzie			706	2,795			1,589	1,216	35,063	90%	10%	5%	5%	70	1972	438		
7a	Coleraine Dr	Mayfield			342	476			405	403	10,100	90%	10%	5%	5%	70	568	126		
7b	Coleraine Dr	Mayfield to Countryside			123	401			295	182	5,963	90%	10%	5%	5%	70	335	75		
7c	Coleraine Dr	Countryside to A2			-	-			-	-	-	-	-	-	-	-	-	-		
7d	E-W Arterial	A2			-	-			-	-	-	-	-	-	-	-	-	-		
7e	Coleraine Dr	Countryside to Hwy 50			110	332			272	124	4,950	90%	10%	5%	5%	70	278	62		
7f	Coleraine Dr	Hwy 50			206	272			235	248	6,038	90%	10%	5%	5%	20	340	75		

Future "No-Build" (2041)

ID	Road	Road Segment	AM Peak Hour				PM Peak Hour				Estimated AADT	Traffic Split		Truck Percentages		Speed (km/h)	Average Vehicles/hour			
			WB	EB	NB	SB	WB	EB	NB	SB		Day (% of AADT)	Night (% of AADT)	Heavy (% of AADT)	Medium (% of AADT)		Day		Night	
																	7:00	23:00	23:00	7:00
																	16	hours	8	hours
1a	Mayfield Rd	Hwy 50	1,106	323			354	722			14,290	90%	10%	5%	5%	60	804	179		
1b	Mayfield Rd	Hwy 50 to Coleraine	714	469			591	638			15,363	90%	10%	5%	5%	80	864	192		
1c	Mayfield Rd	Coleraine to A2	741	828			947	771			21,475	90%	10%	5%	5%	80	1208	268		
1d	Mayfield Rd	A2 to Mayfield	744	757			992	879			23,388	90%	10%	5%	5%	80	1316	292		
2a	Countryside Dr	Clarkway to A2	566	1,445			1,619	1,171			34,875	90%	10%	5%	5%	70	1962	436		
2b	Countryside Dr	A2 to Coleraine	188	351			329	240			7,113	90%	10%	5%	5%	70	400	89		
2c	Countryside Dr	Coleraine to Hwy 50	156	365			309	197			6,325	90%	10%	5%	5%	70	356	79		
2d	Countryside Dr	Hwy 50	439	626			883	469			16,900	90%	10%	5%	5%	70	951	211		
3a	Castlemore Rd	Clarkway	1,082	1,377			1,638	1,201			35,488	90%	10%	5%	5%	70	1996	444		
3b	Castlemore Rd	Clarkway to the Gore	1,141	1,499			1,621	1,209			35,375	90%	10%	5%	5%	70	1990	442		
3c	Castlemore Rd	The Gore	1,031	1,120			1,361	1,006			29,588	90%	10%	5%	5%	70	1664	370		
4a	The Gore Rd	Mayfield			59	514			416	103	6,488	90%	10%	5%	5%	50	365	81		
4b	The Gore Rd	Mayfield to Countryside			122	566			468	130	7,475	90%	10%	5%	5%	50	420	93		
4c	The Gore Rd	Countryside to Castlemore			155	641			668	211	10,988	90%	10%	5%	5%	50	618	137		
4d	The Gore Rd	Castlemore			460	1,109			1,008	495	18,788	90%	10%	5%	5%	60	1057	235		
5a	Clarkway Dr	Mayfield			22	98			99	40	1,738	90%	10%	5%	5%	70	98	22		
5b	Clarkway Dr	Mayfield to Countryside			22	102			63	35	1,240	90%	10%	5%	5%	70	70	16		
5c	Clarkway Dr	Countryside to Castlemore			35	169			83	59	2,040	90%	10%	5%	5%	70	115	26		
5d	Clarkway Dr	Castlemore			123	164			164	122	3,575	90%	10%	5%	5%	70	201	45		
6a	Hwy 50	Mayfield			1,222	1,734			1,539	1,148	33,588	90%	10%	5%	5%	70	1889	420		
6b	Hwy 50	Countryside to Mayfield			1,249	1,872			1,911	1,623	44,175	90%	10%	5%	5%	70	2485	552		
6c	Hwy 50	Major Mackenzie to Countryside			802	3,339			1,824	1,673	43,713	90%	10%	5%	5%	70	2459	546		
6d	Hwy 50	Major Mackenzie			924	3,656			2,079	1,591	45,875	90%	10%	5%	5%	70	2580	573		
7a	Coleraine Dr	Mayfield			452	629			535	532	13,338	90%	10%	5%	5%	70	750	167		
7b	Coleraine Dr	Mayfield to Countryside			530	163			240	389	7,863	90%	10%	5%	5%	70	442	98		
7c	Coleraine Dr	Countryside to A2			-	-			-	-	-	-	-	-	-	-	-	-		
7d	E-W Arterial	A2			-	-			-	-	-	-	-	-	-	-	-	-		
7e	Coleraine Dr	Countryside to Hwy 50			144	437			357	163	6,500	90%	10%	5%	5%	70	366	81		
7f	Coleraine Dr	Hwy 50			269	356			307	324	7,888	90%	10%	5%	5%	20	444	99		

Future "Build" (2041)

ID	Road	Road Segment	AM Peak Hour				PM Peak Hour				Estimated AADT	Traffic Split		Truck Percentages		Speed (km/h)	Average Vehicles/hour			
			WB	EB	NB	SB	WB	EB	NB	SB		Day (% of AADT)	Night (% of AADT)	Heavy (% of AADT)	Medium (% of AADT)		Day		Night	
																	7:00	23:00	23:00	7:00
																	16	hours	8	hours
1a	Mayfield Rd	Hwy 50	959	722			748	1,397			26,813	90%	10%	5%	5%	60	1508	335		
1b	Mayfield Rd	Hwy 50 to Coleraine	631	305			586	932			18,975	90%	10%	5%	5%	80	1067	237		
1c	Mayfield Rd	Coleraine to A2	1,005	822			1,224	1,232			30,700	90%	10%	5%	5%	80	1727	384		
1d	Mayfield Rd	A2 to Mayfield	648	1,461			1,021	1,252			28,413	90%	10%	5%	5%	80	1598	355		
2a	Countryside Dr	Clarkway to A2	761	777			1,221	378			19,988	90%	10%	5%	5%	70	1124	250		
2b	Countryside Dr	A2 to Coleraine	333	488			1,026	407			17,913	90%	10%	5%	5%	70	1008	224		
2c	Countryside Dr	Coleraine to Hwy 50	421	397			946	473			17,738	90%	10%	5%	5%	70	998	222		
2d	Countryside Dr	Hwy 50	481	249			491	299			9,875	90%	10%	5%	5%	70	555	123		
3a	Castlemore Rd	To Clarkway	1,082	1,377			1,638	1,201			35,488	90%	10%	5%	5%	70	1996	444		
3b	Castlemore Rd	Clarkway to the Gore	1,141	1,499			1,621	1,209			35,375	90%	10%	5%	5%	70	1990	442		
3c	Castlemore Rd	The Gore	1,031	1,120			1,361	1,006			29,588	90%	10%	5%	5%	70	1664	370		
4a	The Gore Rd	Mayfield			59	514			416	103	6,488	90%	10%	5%	5%	50	365	81		
4b	The Gore Rd	Mayfield to Countryside			122	566			468	130	7,475	90%	10%	5%	5%	50	420	93		
4c	The Gore Rd	Countryside to Castlemore			155	641			668	211	10,988	90%	10%	5%	5%	50	618	137		
4d	The Gore Rd	Castlemore			460	1,109			1,008	495	18,788	90%	10%	5%	5%	60	1057	235		
5a	Clarkway Dr	Mayfield			22	98			99	40	1,738	90%	10%	5%	5%	70	98	22		
5b	Clarkway Dr	Mayfield to Countryside			22	102			63	35	1,240	90%	10%	5%	5%	70	70	16		
5c	Clarkway Dr	Countryside to Castlemore			35	169			83	59	2,040	90%	10%	5%	5%	70	115	26		
5d	Clarkway Dr	Castlemore			123	164			164	122	3,575	90%	10%	5%	5%	70	201	45		
6a	Hwy 50	Mayfield			919	1,773			1,970	1,183	39,413	90%	10%	5%	5%	70	2217	493		
6b	Hwy 50	Countryside to Mayfield			1,362	2,041			2,448	1,358	47,575	90%	10%	5%	5%	70	2676	595		
6c	Hwy 50	Major Mackenzie to Countryside			1,258	2,094			2,797	1,756	56,913	90%	10%	5%	5%	70	3201	711		
6d	Hwy 50	Major Mackenzie			1,686	1,248			2,867	1,548	55,188	90%	10%	5%	5%	70	3104	690		
7a	Coleraine Dr	Mayfield			1,155	1,235			1,384	922	28,825	90%	10%	5%	5%	70	1621	360		
7b	Coleraine Dr	Mayfield to Countryside			768	877			269	578	16,450	90%	10%	5%	5%	70	925	206		
7c	Coleraine Dr	Countryside to A2			820	462			1,120	295	17,688	90%	10%	5%	5%	70	995	221		
7d	E-W Arterial	A2			552	796			342	674	13,480	90%	10%	5%	5%	70	758	169		
7e	Coleraine Dr	Countryside to Hwy 50			-	-			-	-	-	-	-	-	-	-	-	-		
7f	Coleraine Dr	Hwy 50			-	-			-	-	-	-	-	-	-	-	-	-		
8a	A2	Mayfield to Countryside			186	1,065			713	543	15,700	90%	10%	5%	5%	70	883	196		
8b	A2	Countryside Dr to Coleraine			403	1,807			1,120	1,212	29,150	90%	10%	5%	5%	70	1640	364		
8c	A2	Coleraine Dr to Hwy 50			1,741	1,807			2,555	1,212	47,088	90%	10%	5%	5%	70	2649	589		

- Notes:
- The Annual Average Daily traffic (AADT) values for each road segment were estimated by Wood utilizing the AM/PM peak data provided by CIMA. In the case of data not available for a specific road segment, the following assumptions were used:
 1. Under any of the three scenarios, if the traffic data were not provided for one segment of a particular road, that segment was assumed to have the same AADT values as the adjacent segment of the same road with available data.
 2. For certain road segments where the Future "build" traffic data were not provided, the traffic was assumed to be same as the Future "no-build" scenario.



wood.

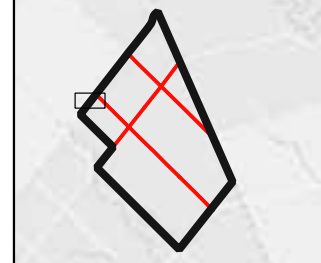
Appendix C
Existing 2013





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

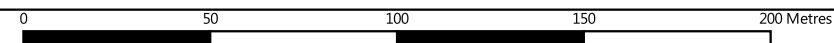
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-1 of 54

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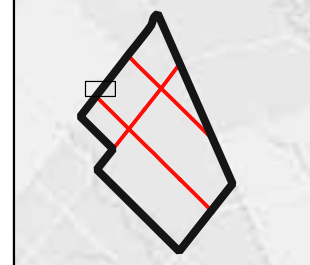
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
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- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

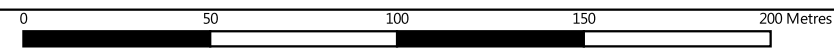
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-2 of 54

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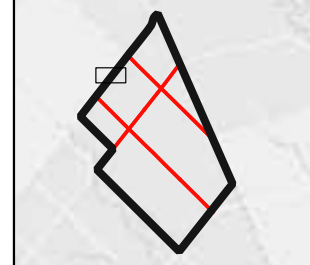
DATE: September 2020





LEGEND

- Receptor
- Road
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- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

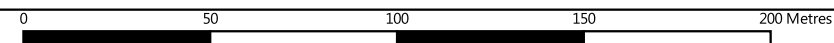
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Existing 2013**

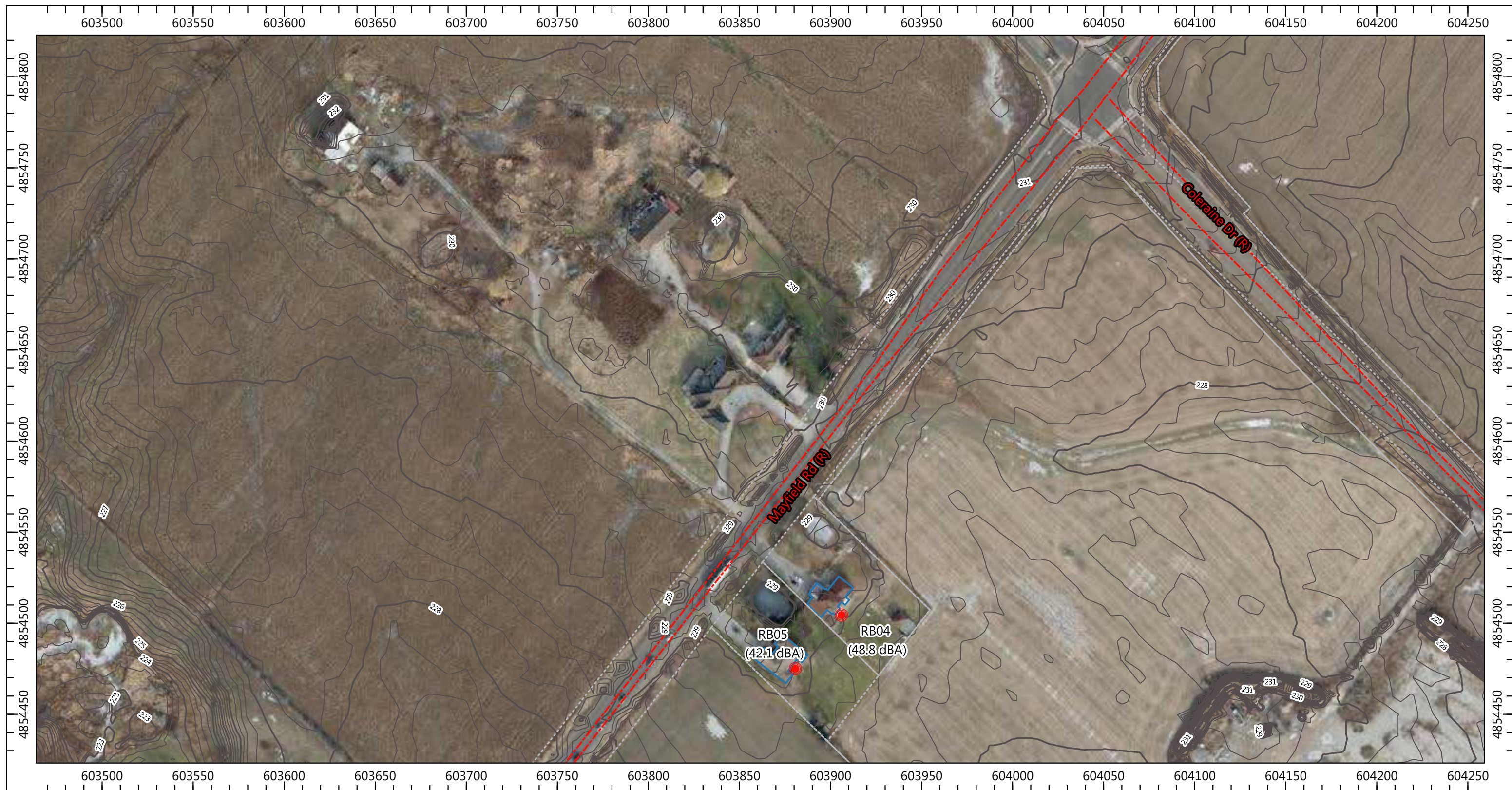
PROJECT NO: TP115086

FIGURE: C-3 of 54

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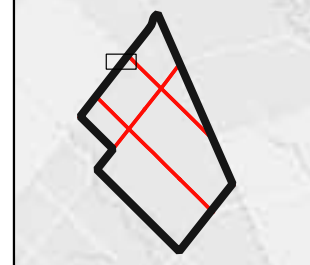
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
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- ▨ Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

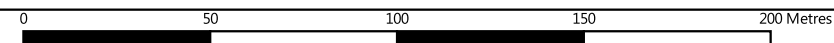
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-4 of 54

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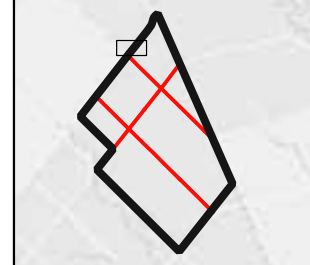
DATE: September 2020





LEGEND

- Receptor
- Road
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- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

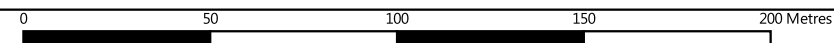
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Existing 2013**

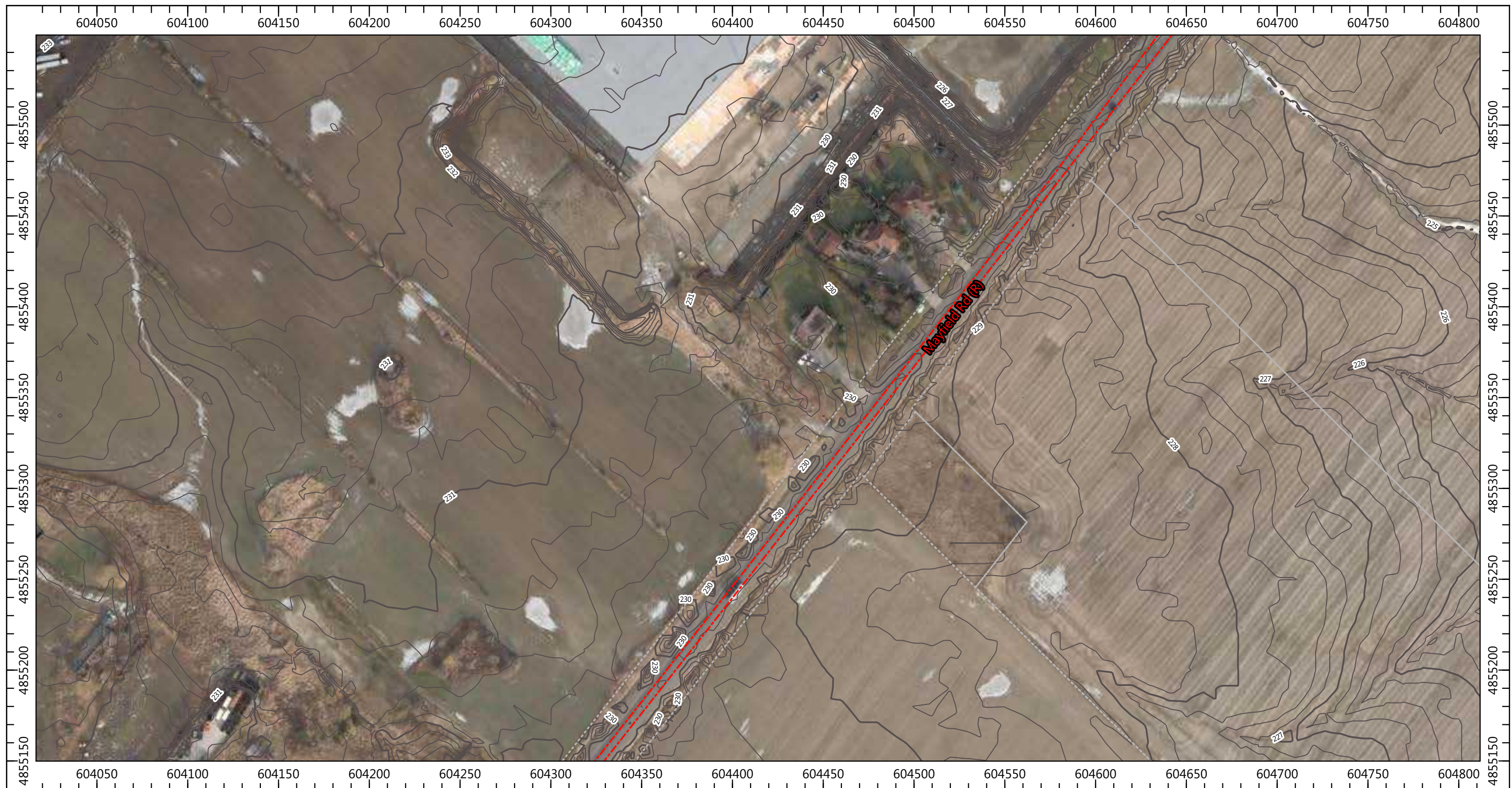
PROJECT NO: TP115086

FIGURE: C-5 of 54

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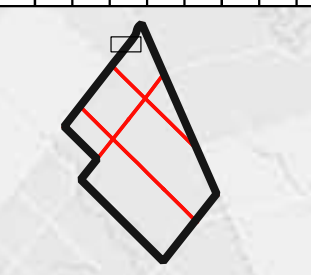
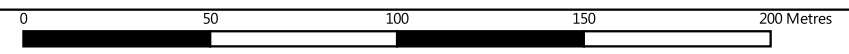
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
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- Contour Line
- Building
- ▨ Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-6 of 54

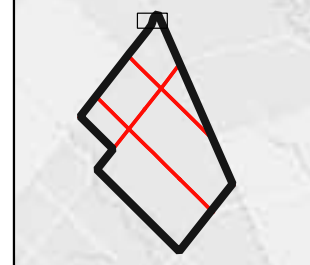
SCALE: 1:2023

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
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- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

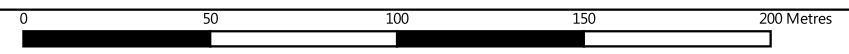
**Noise Levels
Existing 2013**

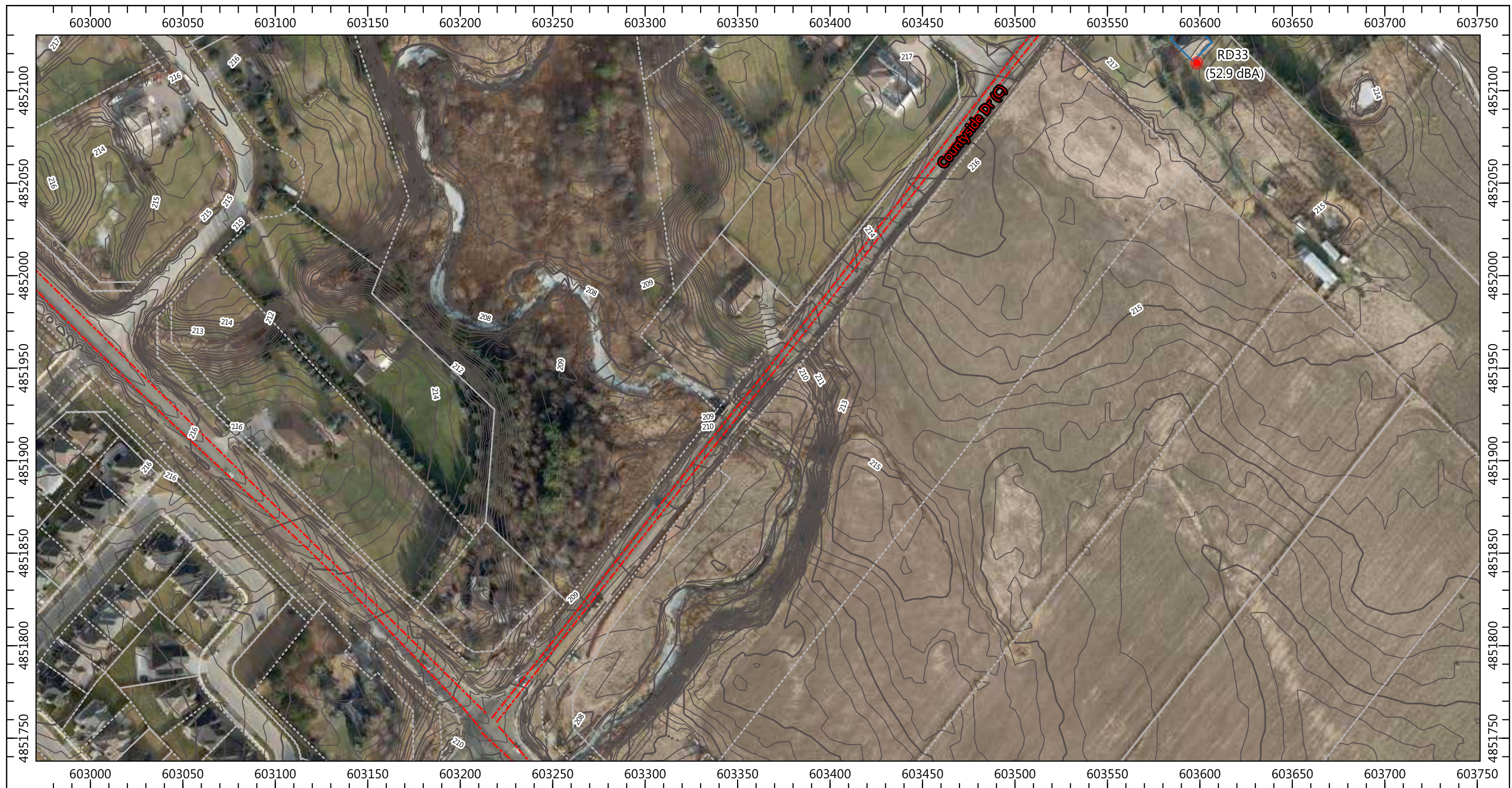
PROJECT NO: TP115086

FIGURE: C-7 of 54

SCALE: 1:2023

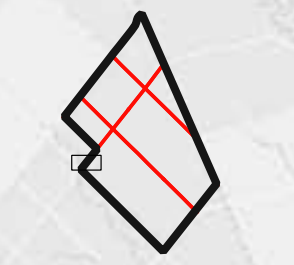
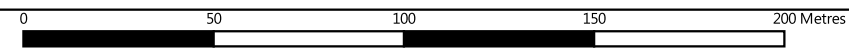
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-8 of 54

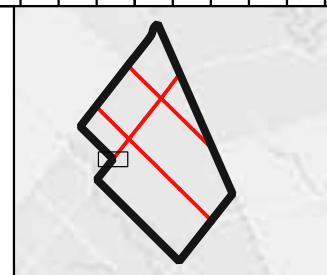
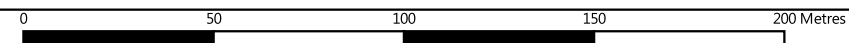
SCALE: 1:1986

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

SCALE: 1:1986

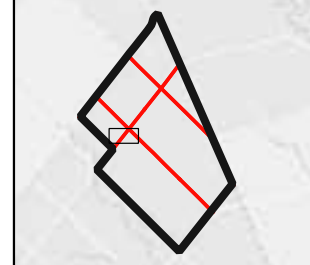
FIGURE: C-9 of 54

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

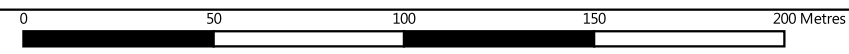
**Noise Levels
Existing 2013**

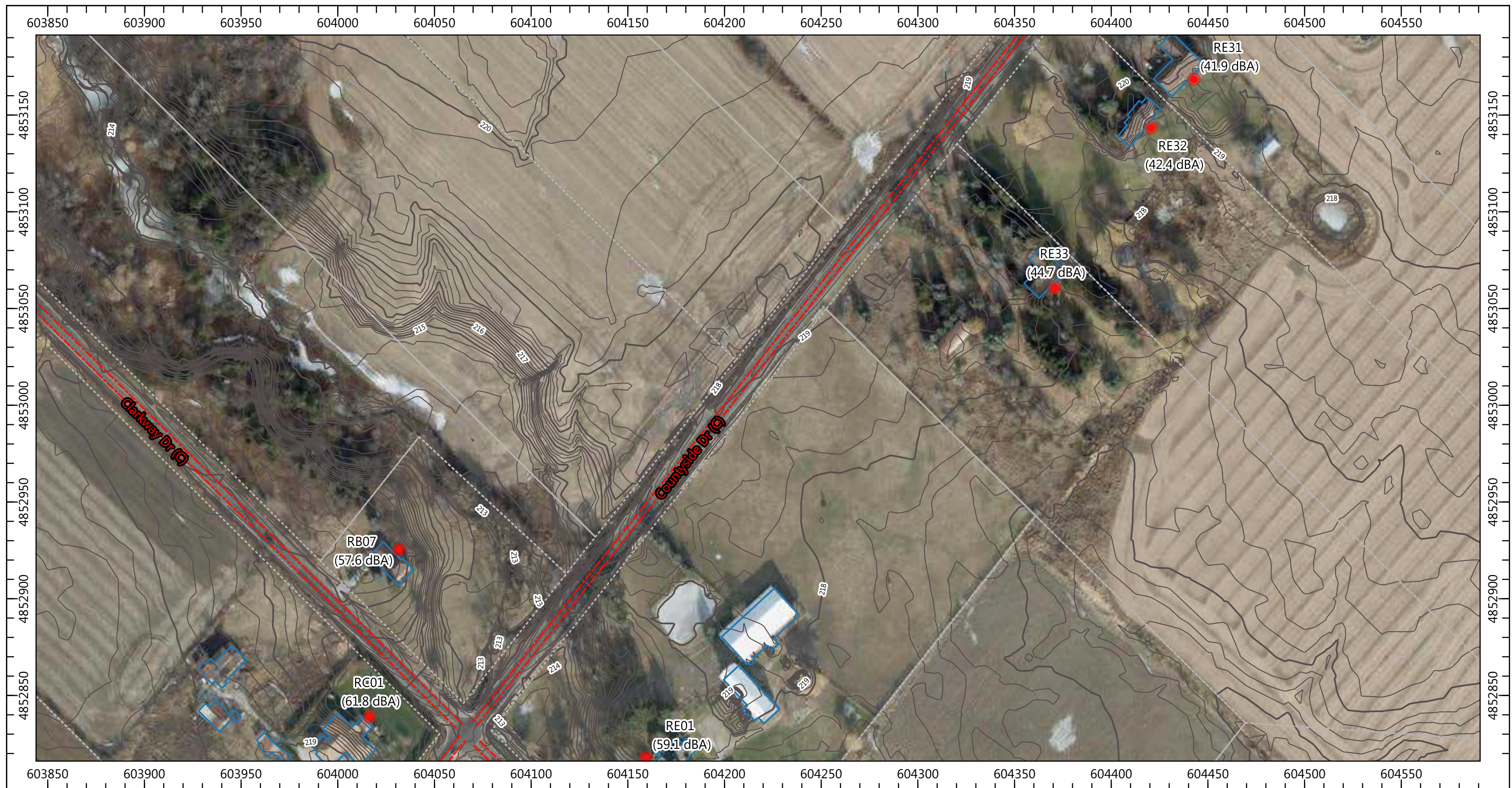
PROJECT NO: TP115086

FIGURE: C-10 of 54

SCALE: 1:1986

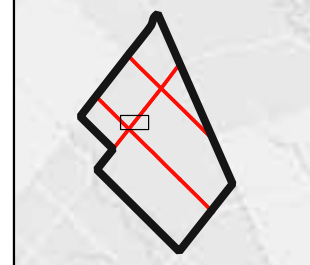
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

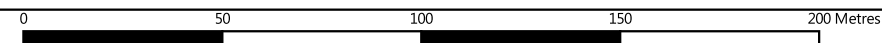
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

SCALE: 1:1899

FIGURE: C-11 of 54

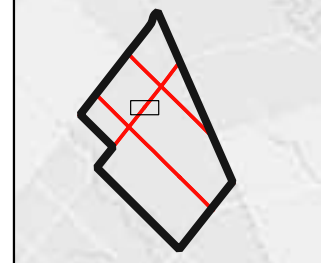
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

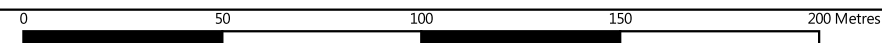
**Noise Levels
Existing 2013**

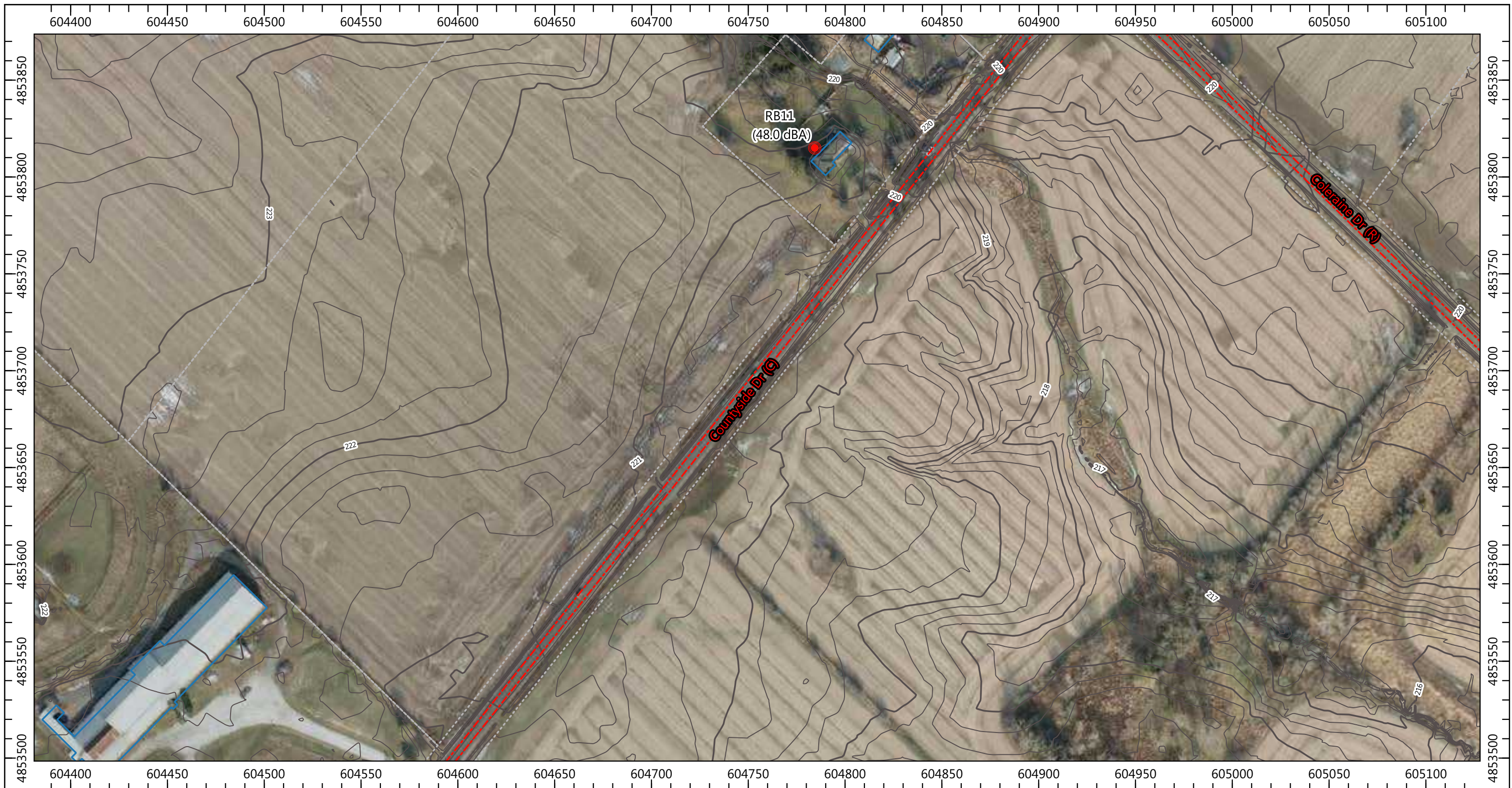
PROJECT NO: TP115086

FIGURE: C-12 of 54

SCALE: 1:1899

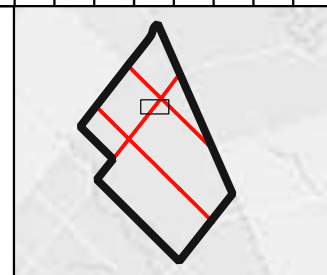
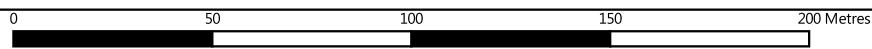
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-13 of 54

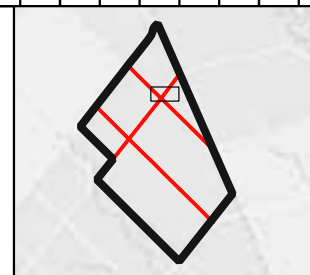
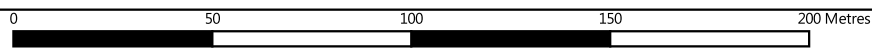
SCALE: 1:1899

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

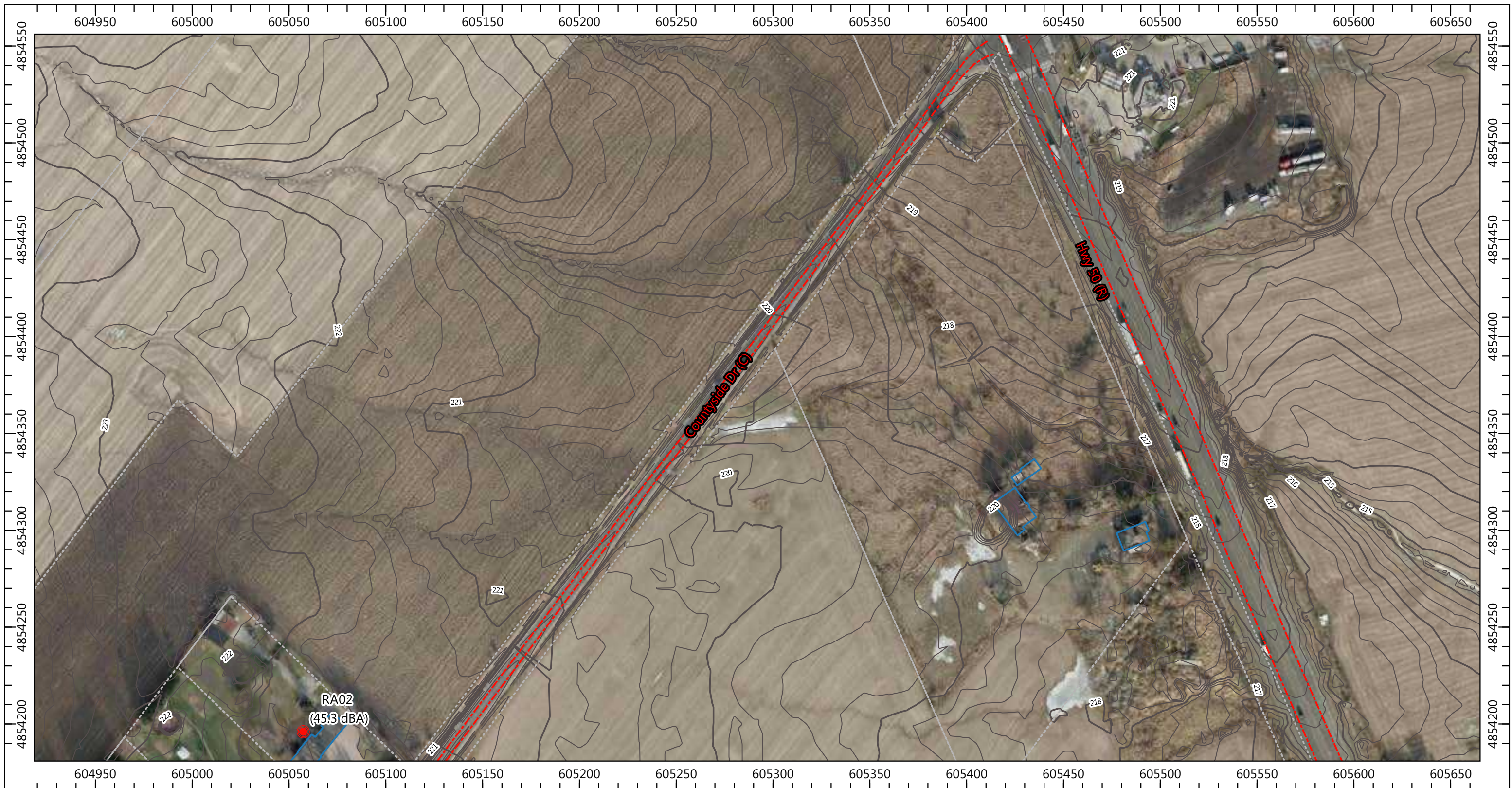
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

SCALE: 1:1899

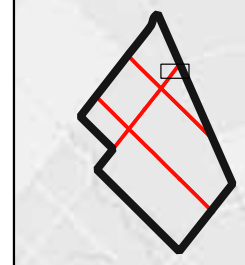
FIGURE: C-14 of 54

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

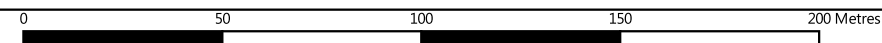
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-15 of 54

SCALE: 1:1899

DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)

0 50 100 150 200 Metres

Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N

wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

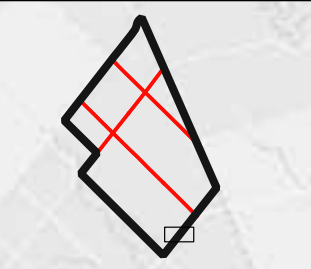
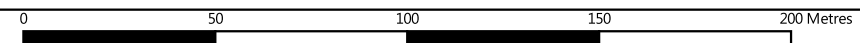
PROJECT NO: TP115086 FIGURE: C-16 of 54

SCALE: 1:1969 DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

**Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)**

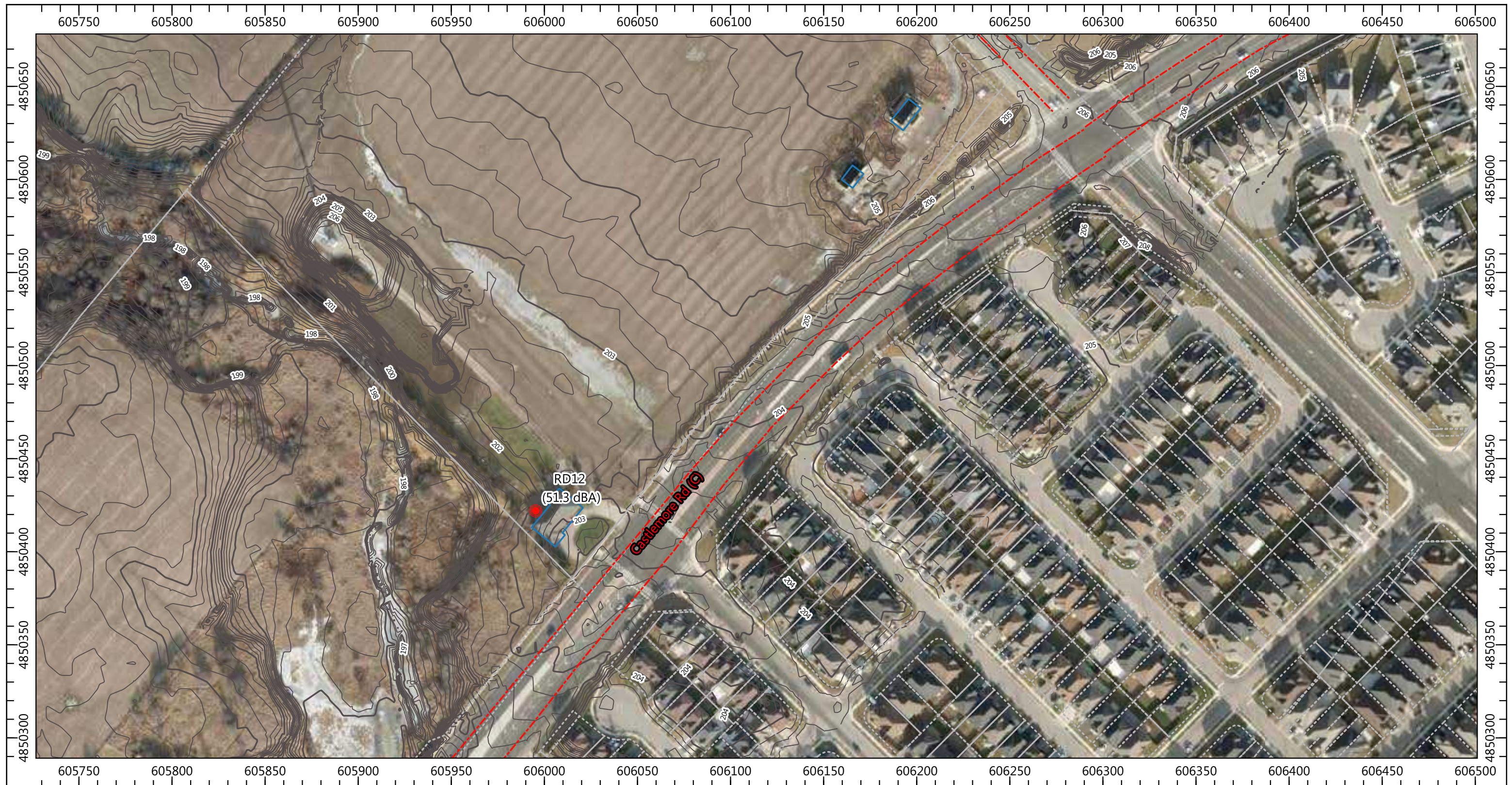
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-17 of 54

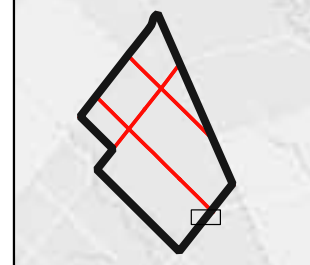
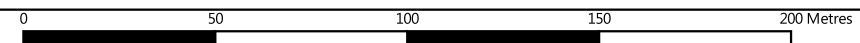
SCALE: 1:1969

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-18 of 54

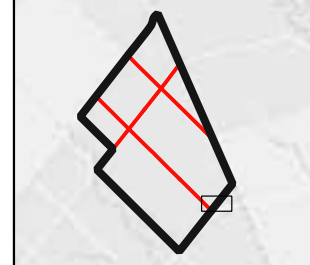
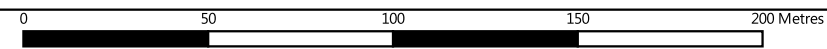
SCALE: 1:1969

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

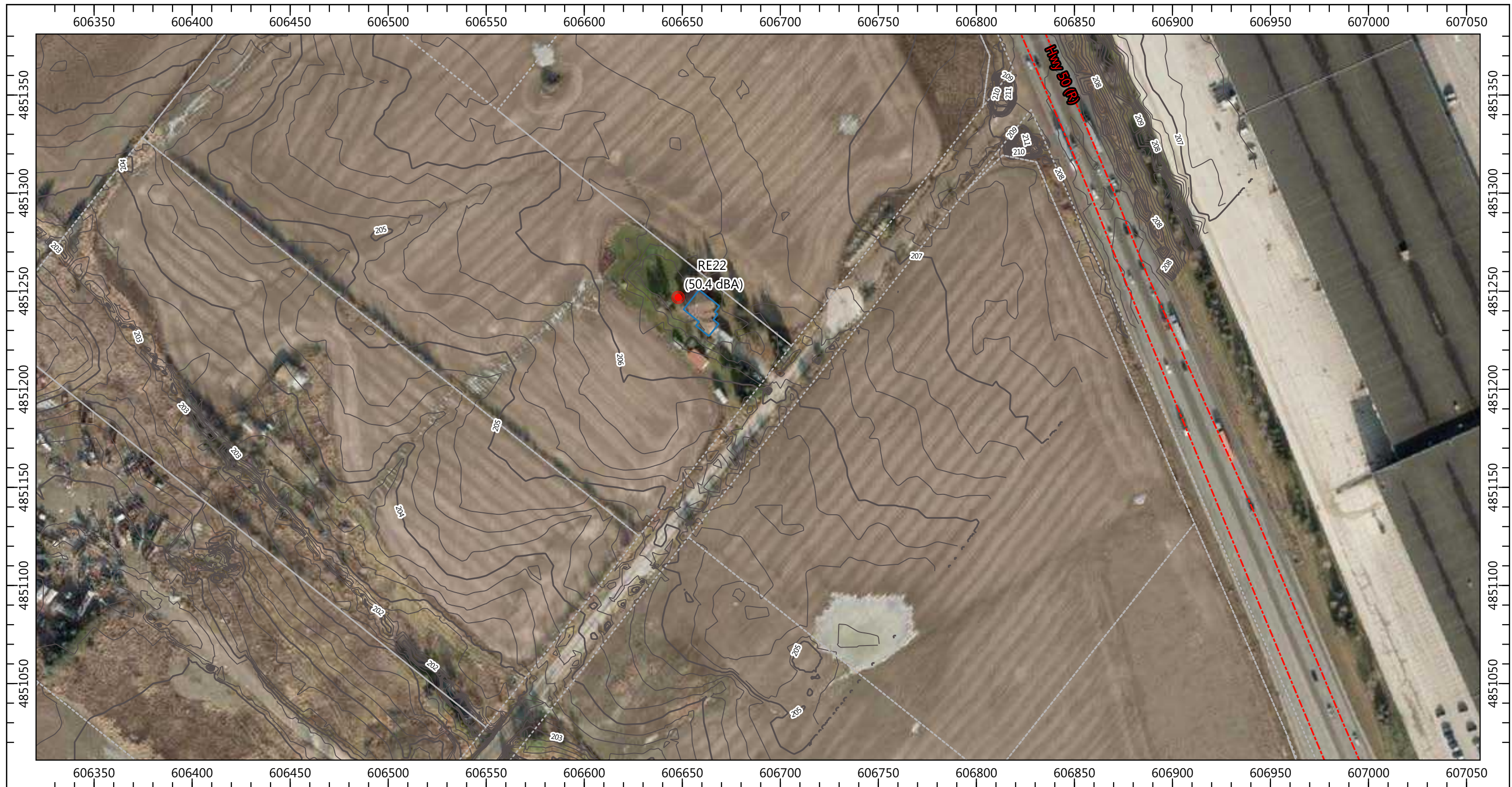
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-19 of 54

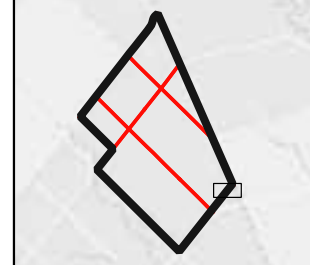
SCALE: 1:2045

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

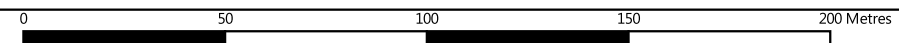
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-20 of 54

SCALE: 1:1873

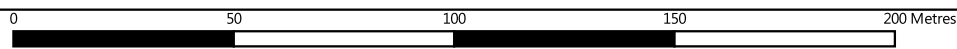
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-21 of 54

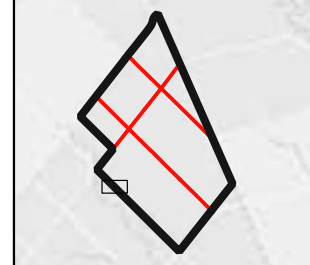
SCALE: 1:1715

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

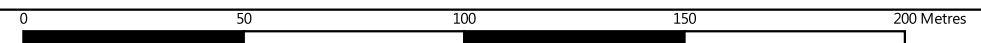
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-22 of 54

SCALE: 1:1715

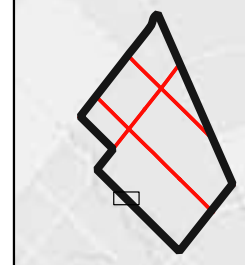
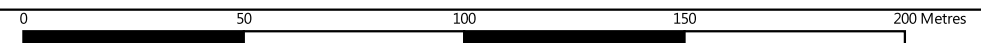
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- ▨ Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-23 of 54

SCALE: 1:1715

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- ▨ Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

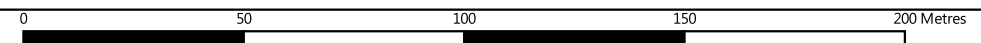
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-24 of 54

SCALE: 1:1715

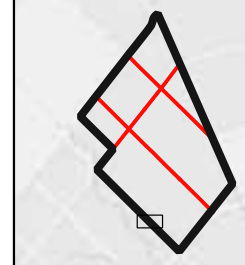
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

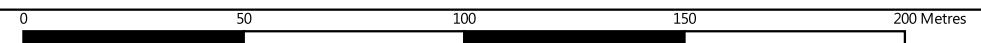
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-25 of 54

SCALE: 1:1715

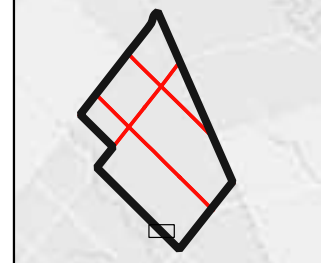
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- ▨ Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

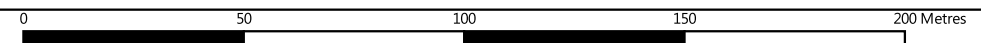
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-26 of 54

SCALE: 1:1715

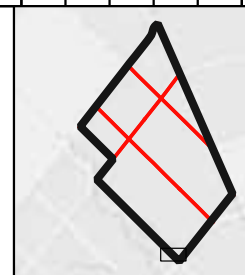
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

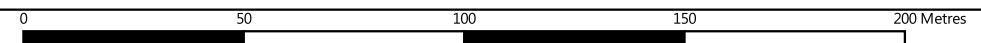
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-27 of 54

SCALE: 1:1715

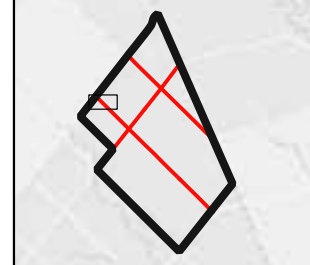
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

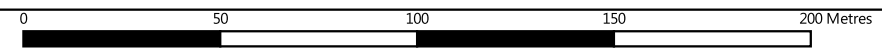
**Noise Levels
Existing 2013**

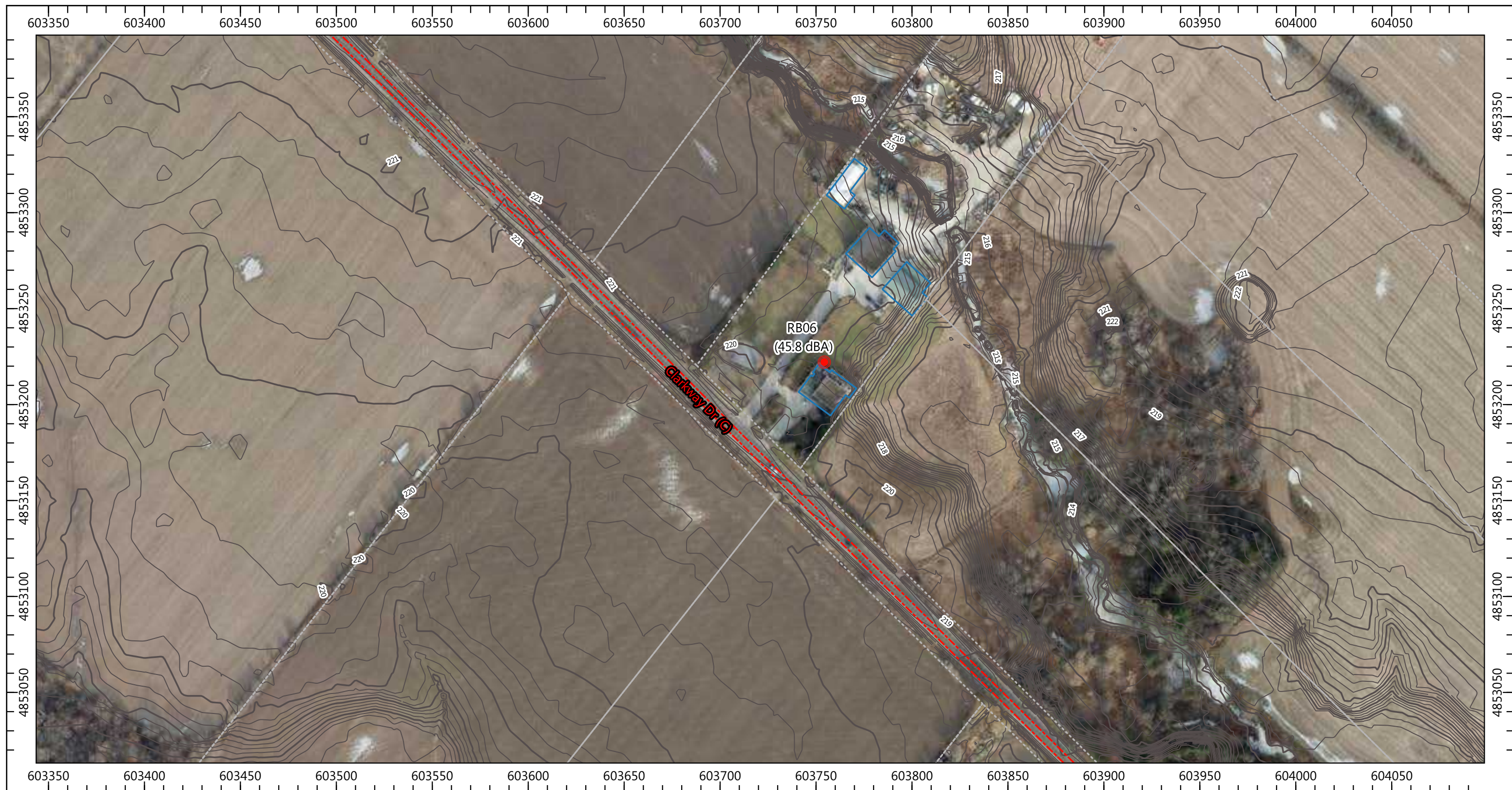
PROJECT NO: TP115086

FIGURE: C-28 of 54

SCALE: 1:1920

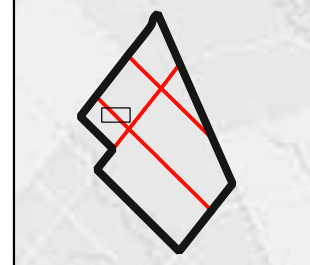
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

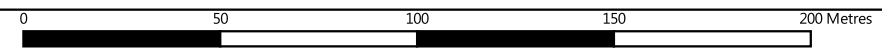
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-29 of 54

SCALE: 1:1920

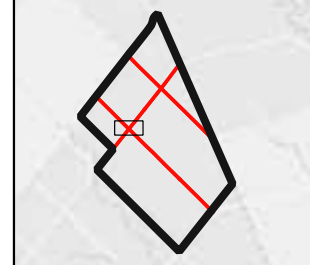
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

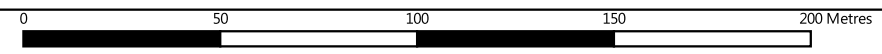
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-30 of 54

SCALE: 1:1920

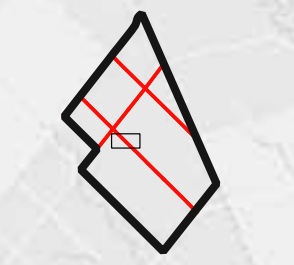
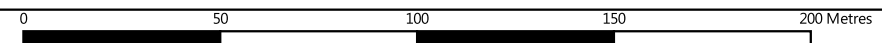
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-31 of 54

SCALE: 1:1920


DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- ▨ Building (removal with new roadway)


0 50 100 150 200 Metres



**Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)**

**Noise Levels
Existing 2013**

Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



PROJECT NO: TP115086	FIGURE: C-32 of 54
SCALE: 1:1920	DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)

0 50 100 150 200 Metres

Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N

wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

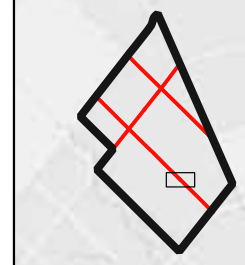
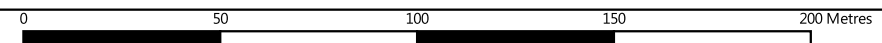
PROJECT NO: TP115086 FIGURE: C-33 of 54

SCALE: 1:1920 DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

SCALE: 1:1920

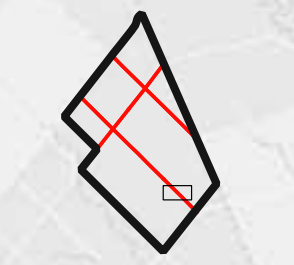
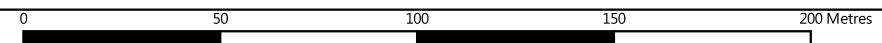
FIGURE: C-34 of 54

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-35 of 54

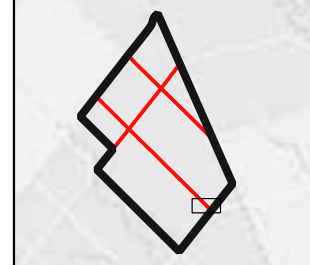
SCALE: 1:1920

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

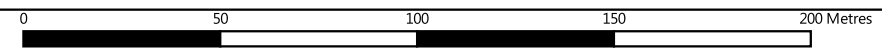
**Noise Levels
Existing 2013**

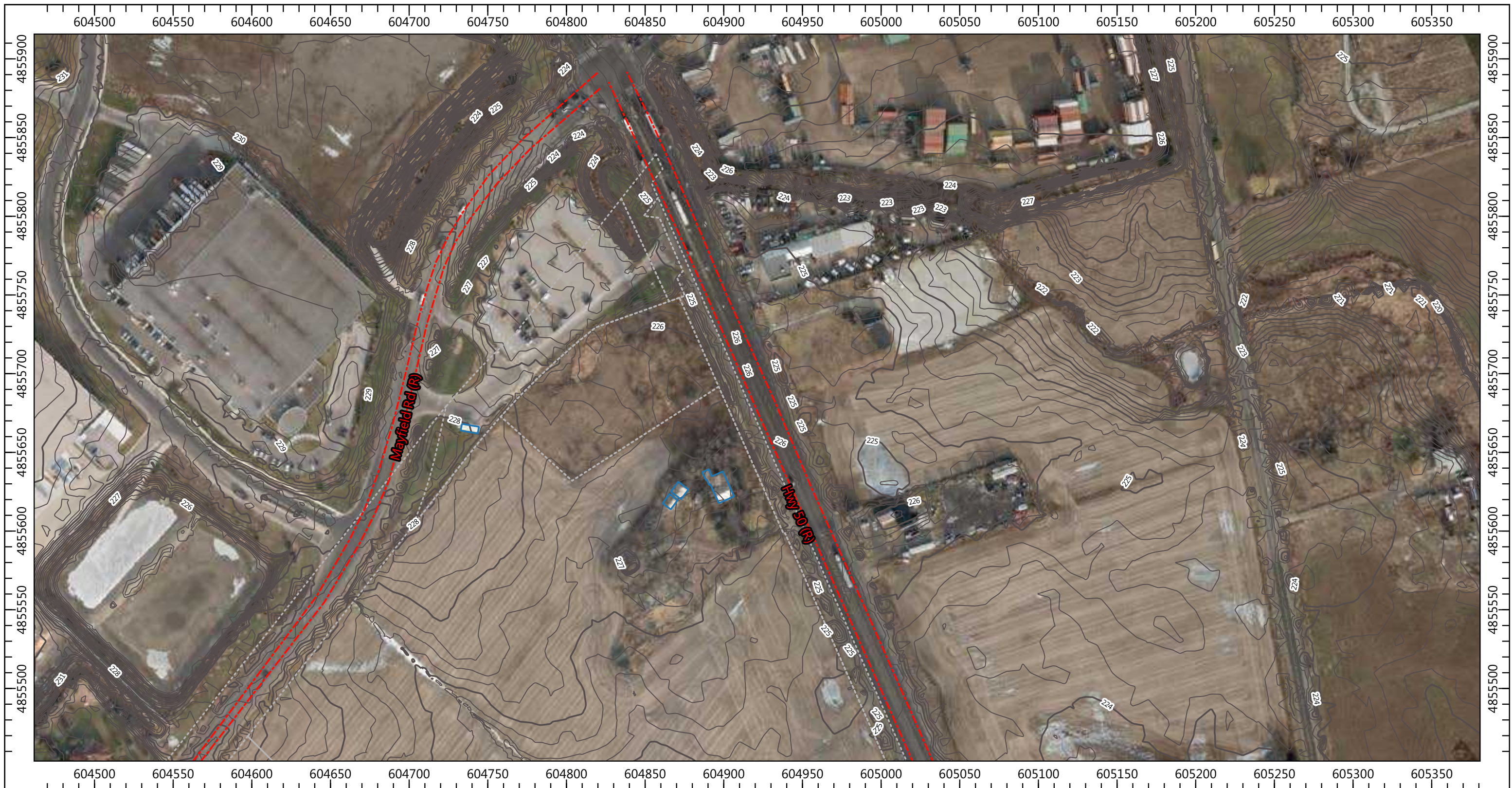
PROJECT NO: TP115086

FIGURE: C-36 of 54

SCALE: 1:1920

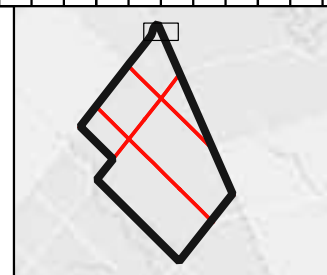
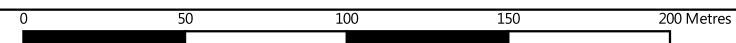
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-37 of 54

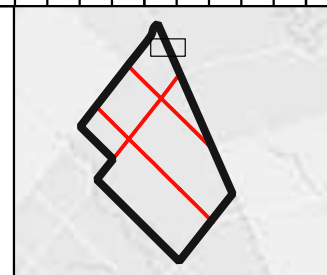
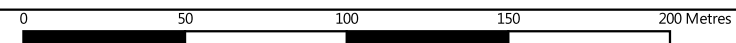
SCALE: 1:2338

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

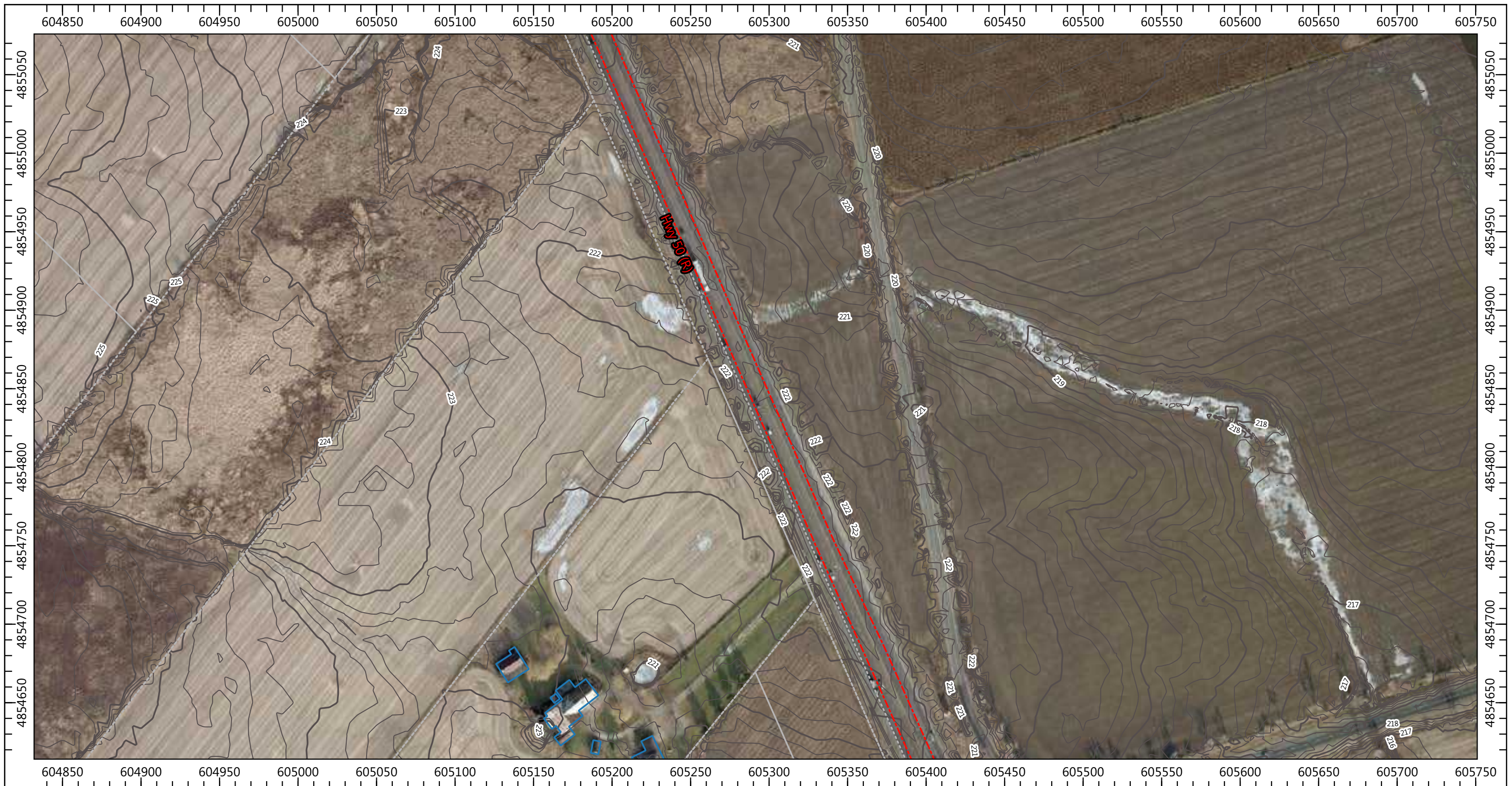
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-38 of 54

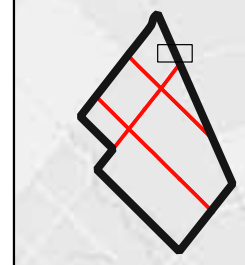
SCALE: 1:2338

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

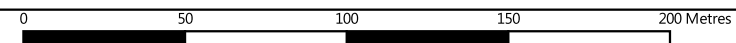
**Noise Levels
Existing 2013**

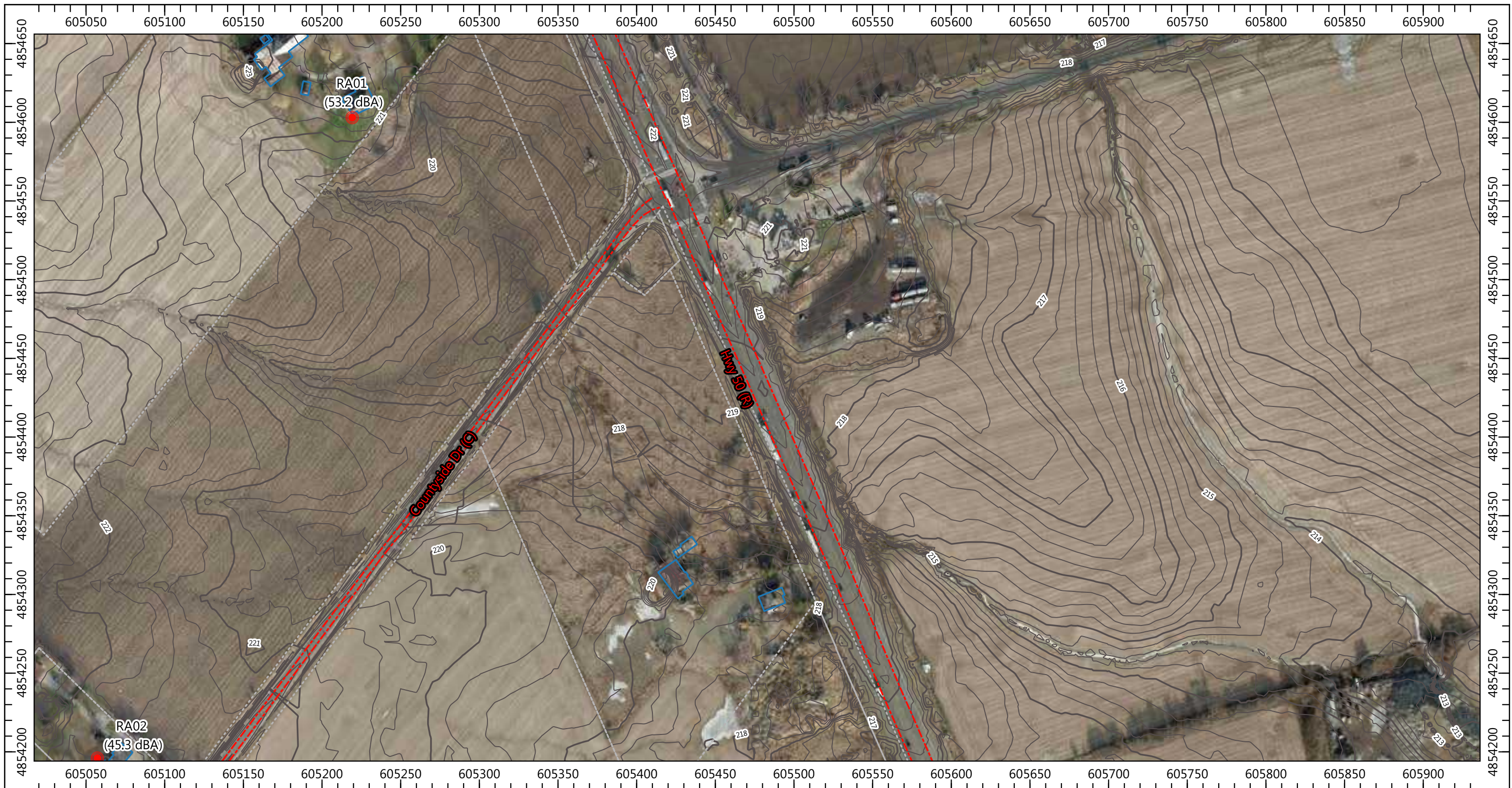
PROJECT NO: TP115086

FIGURE: C-39 of 54

SCALE: 1:2338

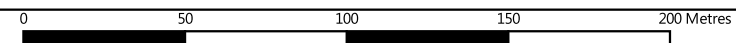
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



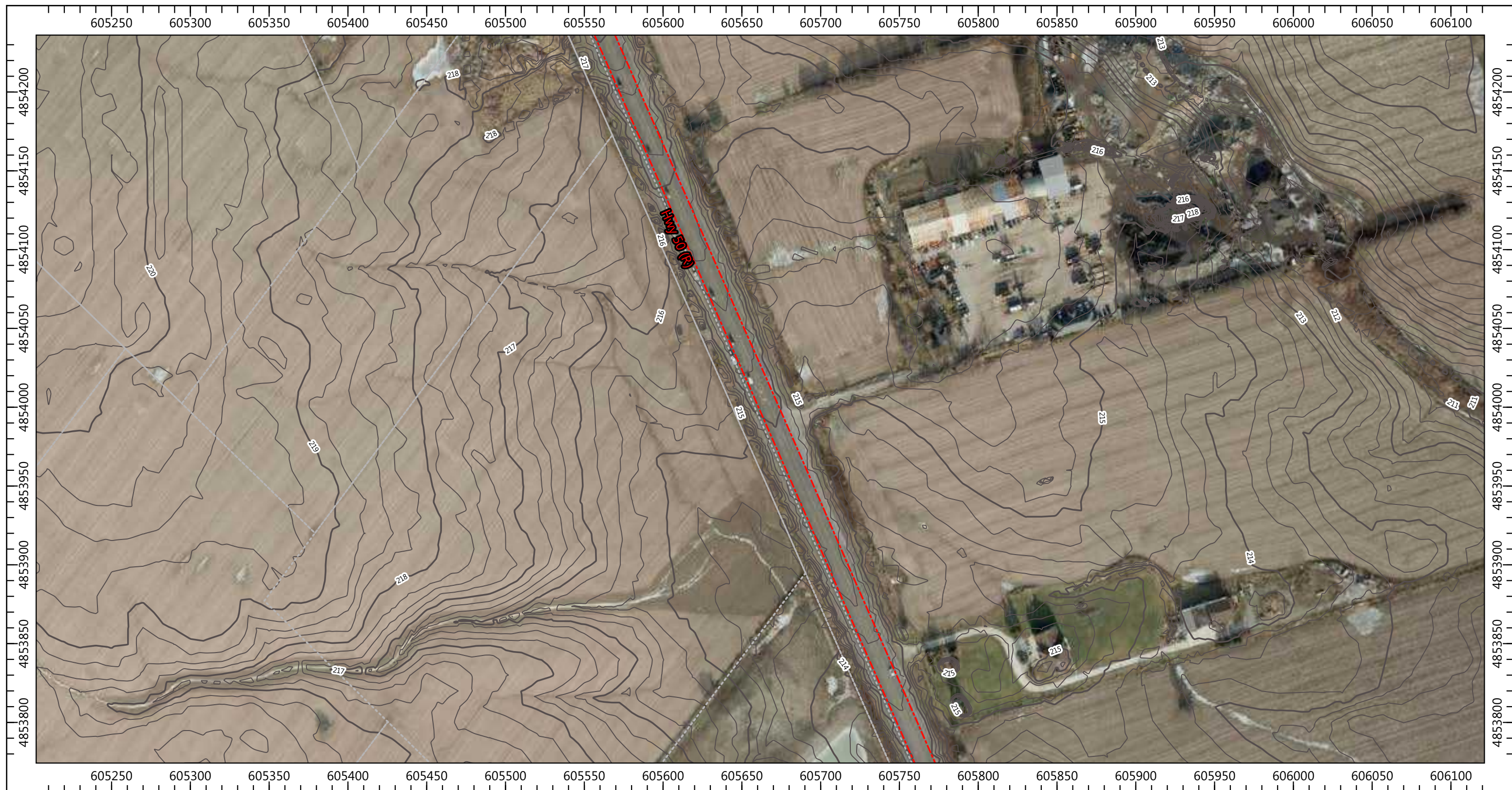
Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N

wood.

**Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)**

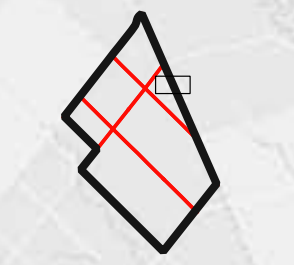
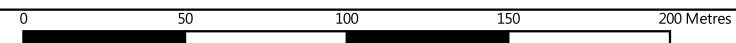
**Noise Levels
Existing 2013**

PROJECT NO: TP115086	FIGURE: C-40 of 54
SCALE: 1:2338	DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

**Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)**

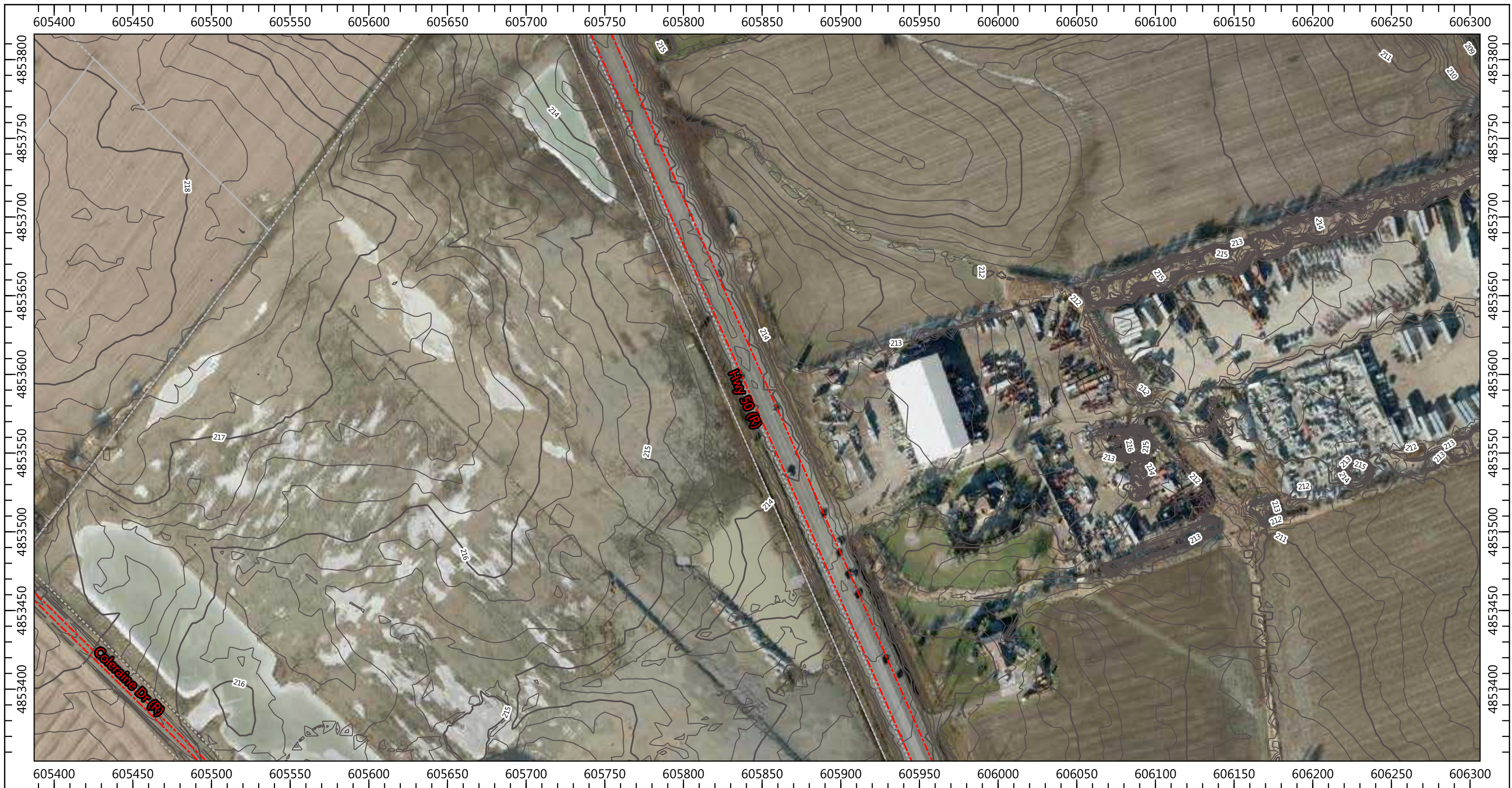
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-41 of 54

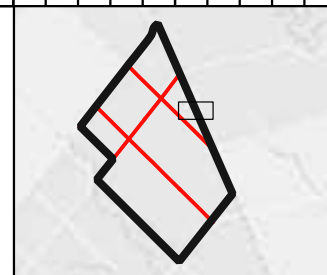
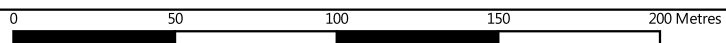
SCALE: 1:2338

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

**Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)**

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-42 of 54

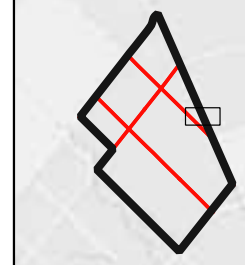
SCALE: 1:2338

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

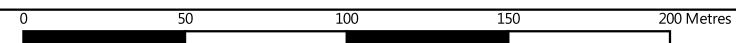
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-43 of 54

SCALE: 1:2338

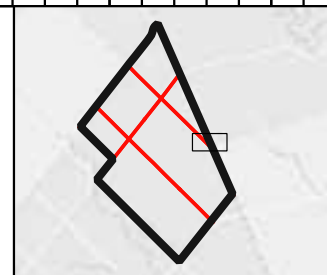
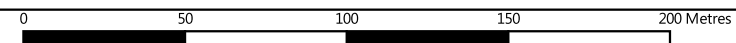
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086






FIGURE: C-44 of 54

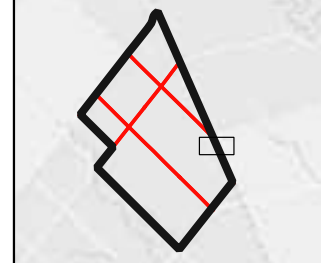
SCALE: 1:2338

DATE: September 2020



LEGEND

-  Receptor
-  Road
- (R): Regional Road
- (C): City Road
-  Contour Line
-  Building
-  Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

**Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)**

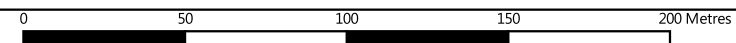
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-45 of 54

SCALE: 1:2338

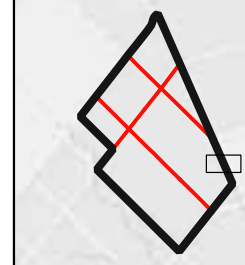
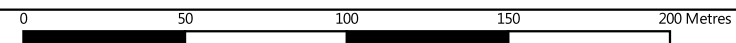
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-46 of 54

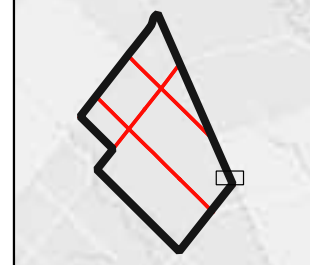
SCALE: 1:2338

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

**Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)**

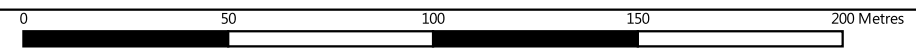
**Noise Levels
Existing 2013**

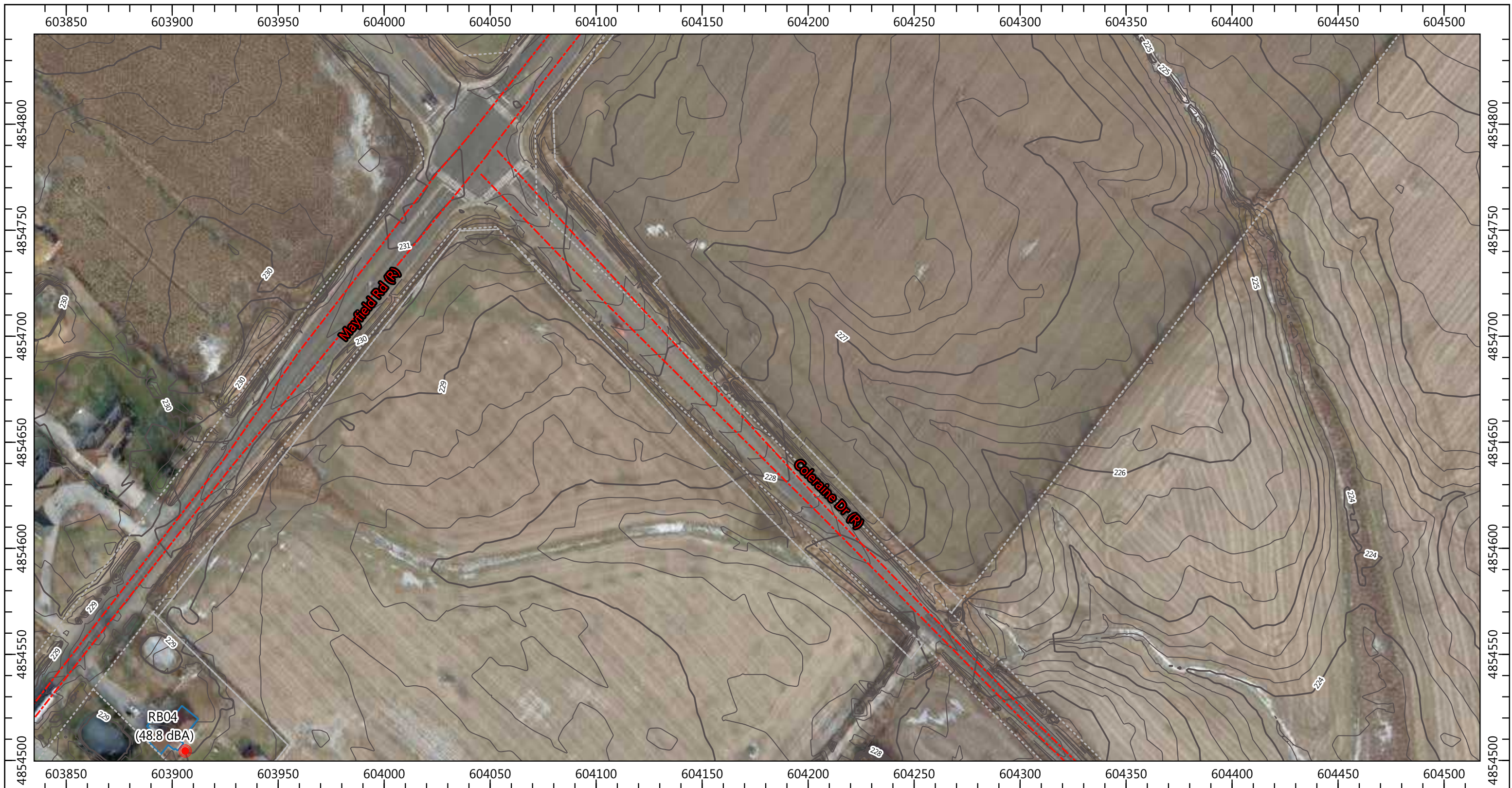
PROJECT NO: TP115086

FIGURE: C-47 of 54

SCALE: 1:1845

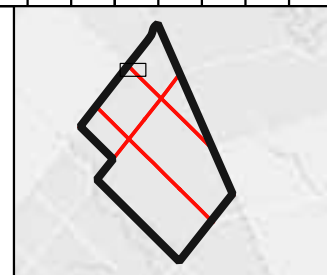
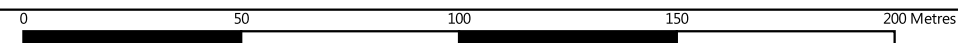
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

**Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)**

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-48 of 54

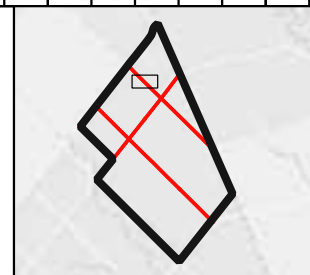
SCALE: 1:1735

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- ▨ Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-49 of 54

SCALE: 1:1735

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)

0 50 100 150 200 Metres

Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N

wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

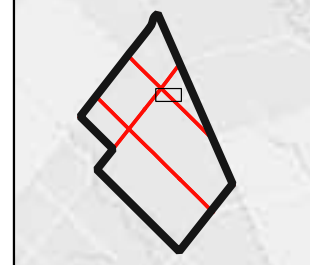
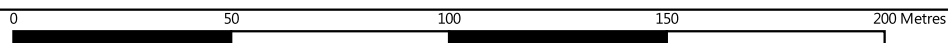
**Noise Levels
Existing 2013**

PROJECT NO: TP115086	FIGURE: C-50 of 54
SCALE: 1:1735	DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

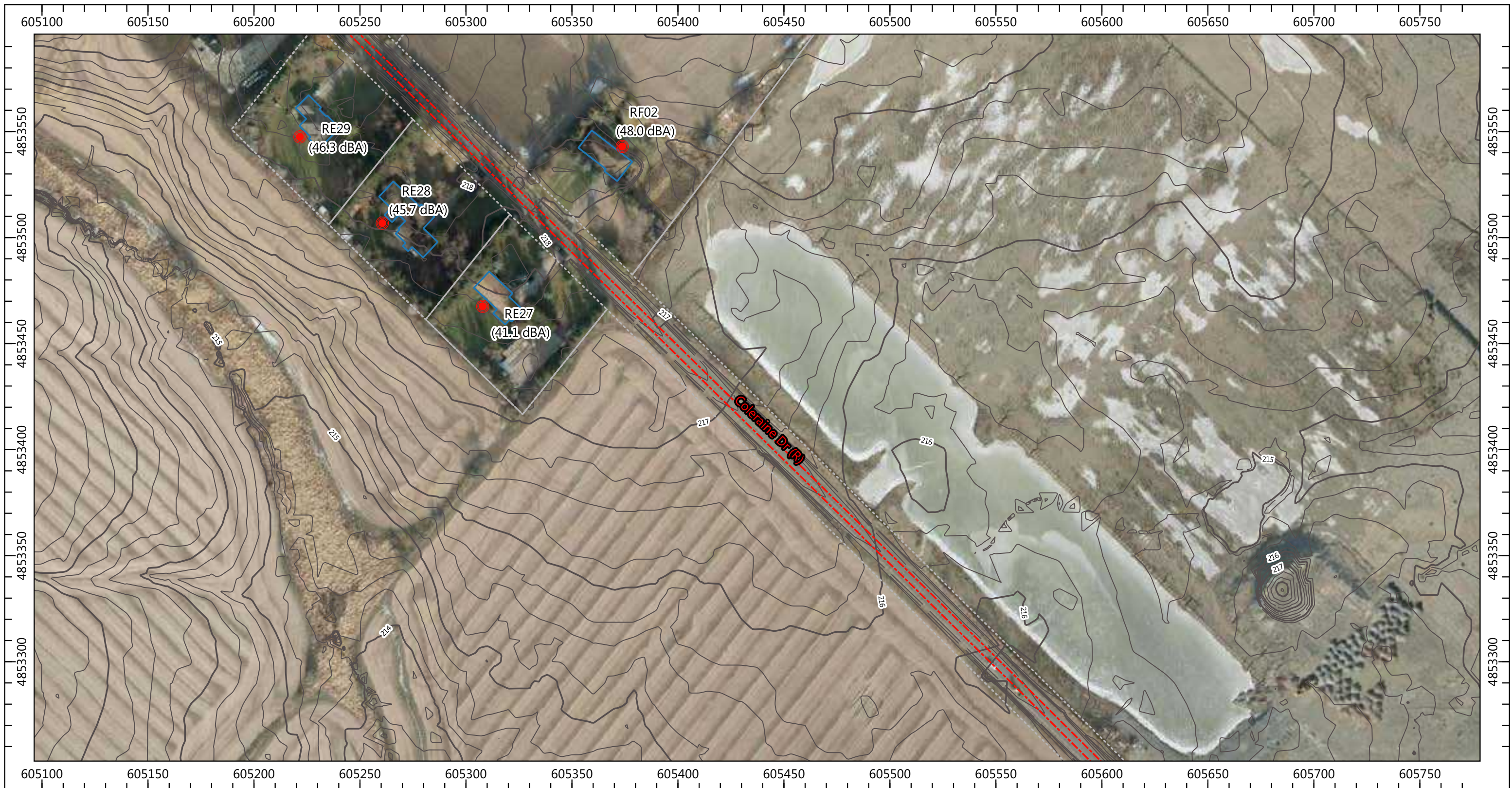
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

FIGURE: C-51 of 54

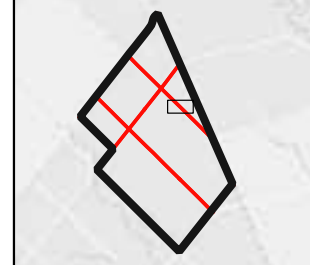
SCALE: 1:1735

DATE: September 2020



LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- ▨ Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

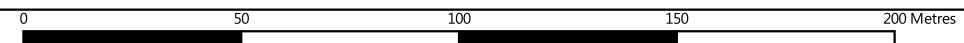
**Noise Levels
Existing 2013**

PROJECT NO: TP115086

SCALE: 1:1735

FIGURE: C-52 of 54

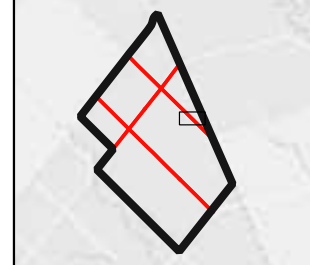
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

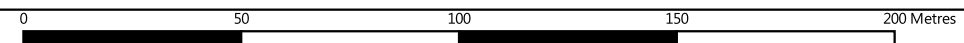
**Noise Levels
Existing 2013**

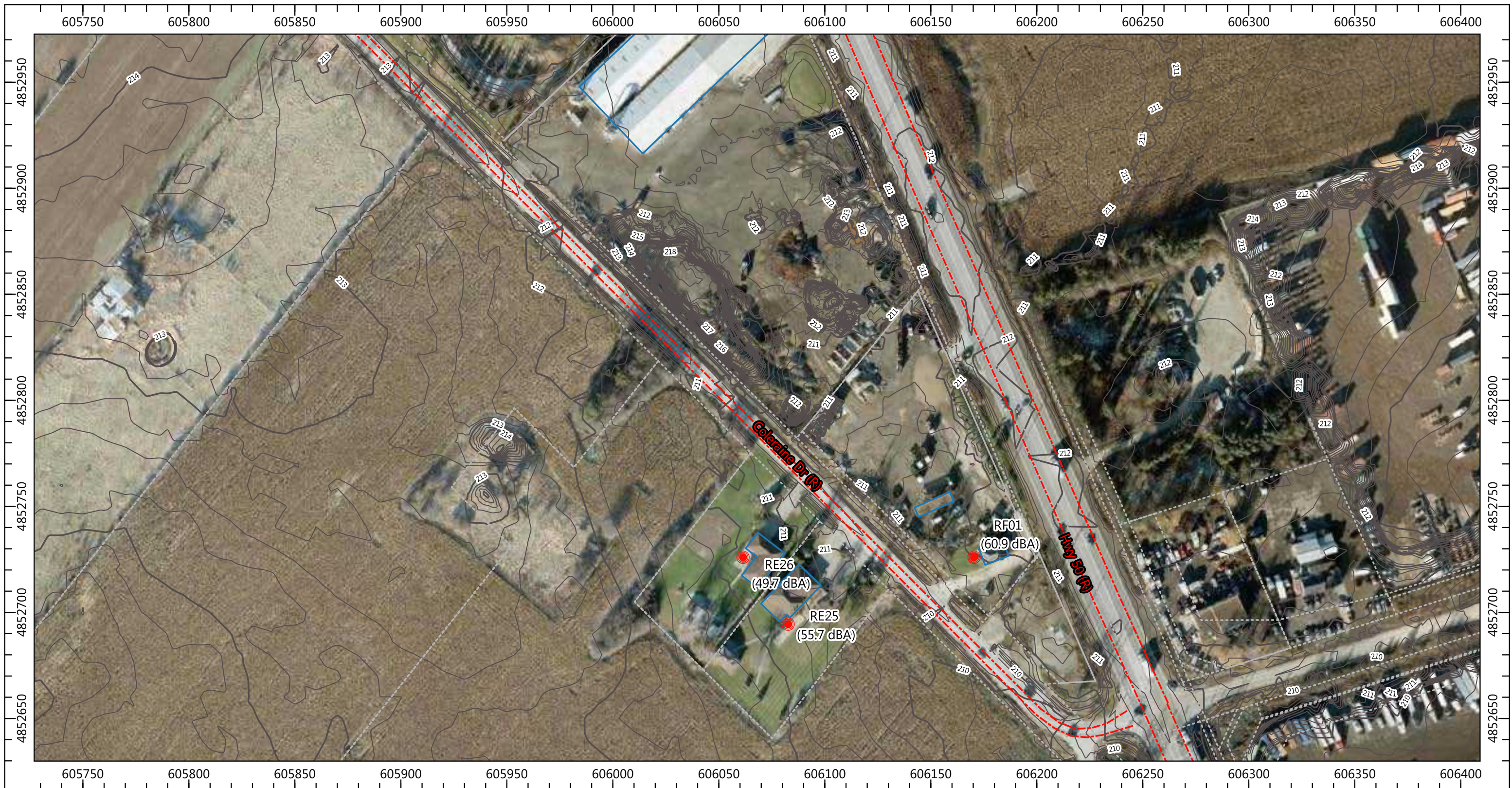
PROJECT NO: TP115086

SCALE: 1:1735

FIGURE: C-53 of 54

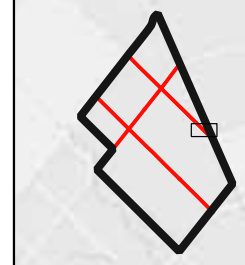
DATE: September 2020





LEGEND

- Receptor
- Road
- (R): Regional Road
- (C): City Road
- Contour Line
- Building
- Building (removal with new roadway)



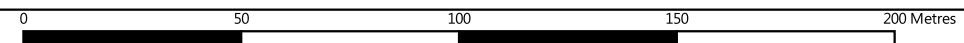
Source: ESRI
Datum & Projection:
NAD83 / UTM zone 17N



wood.

Road Traffic Noise Impact Assessment
Industrial Secondary Plan Area (Area 47)

**Noise Levels
Existing 2013**



PROJECT NO: TP115086

FIGURE: C-54 of 54

SCALE: 1:1735

DATE: September 2020