

Part 2 – Technical Requirements

Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

NRCB USE ONLY

☒ Approval ☐ Registration ☐ Authorization
☐ Amendment

Application number

RA24005

Legal land description

SE 21-41-24 W4M

APPLICATION DISCLOSURE

This information is collected under the authority of the *Agricultural Operation Practices Act (AOPA)*, and is subject to the provisions of the *Freedom of Information and Protection of Privacy Act*. This information is public unless the NRCB grants a written request that certain sections remain private.

Any construction prior to obtaining an NRCB permit is an offence and is subject to enforcement action, including prosecution.

I, the applicant, or applicant's agent, have read and understand the statements above, and I acknowledge that the information provided in this application is true to the best of my knowledge.

March 22 2024

Date of signing

Wilpshaar Dairy Ltd

Corporate name (if applicable)

Signature

Herco & Kirstin Wilpshaar

Print name

GENERAL INFORMATION REQUIREMENTS

Proposed facilities: list all proposed confined feeding operation facilities and their dimensions. Indicate whether any of the proposed facilities are additions to existing facilities. (attach additional pages if needed)

Proposed facilities	Dimensions (m) (length, width, and depth)
Expanding Free stall Barn	88.1 m x 32 m
New Lagoon	60 m x 60 m x 4.5 m

Existing facilities: list **ALL** existing confined feeding operation facilities and their dimensions

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Heifer barn	67 m x 30.5 m	
Dry cow shed	29.75 m x 16 m	
Free stall barn	92.7 m x 32 m	

NRCB USE ONLY

Part 2 – Technical Requirements



NRCB Natural Resources
Conservation Board

Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

[illegible]

Part 2 – Technical Requirements

Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

If a new facility is replacing an old facility, please explain what will happen to the old facility and when. ☐ N/A

N/A

Construction completion date for proposed facilities November 2025

Additional information

Livestock numbers: Complete only if livestock numbers are different from what was identified in the Part 1 application. Note: if livestock numbers increase in your Part 2 application, a new Part 1 application must be submitted which may result in a loss of priority for minimum distance separation (MDS).

Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	Permitted number	Proposed increase or decrease in number (if applicable)	Total
Dairy Cows + replacements	250	250	500

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Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

issued by Alberta Environment and Protected Areas (EPA) for a confined feeding operation (CFO)

Date and sign one of the following four options

OPTION 1: Applying through the NRCB for both the AOPA permit and the Water Act licence

I **DO** want my water licence application coupled to my AOPA permit application.

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

OPTION 2: Processing the AOPA permit and Water Act licence separately

1. I (we) acknowledge that the CFO will need a new water licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant the *Water Act* licence application.
5. I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7. **Provide:** Water licence application number(s) 00403525-00-00

Signed this 22 day of March, 2024.

Signature of Applicant or Agent

OPTION 3: Additional water licence not required

1. I (we) declare that the CFO will not need a new licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. **Provide:** Water license number(s) or water conveyance agreement details _____

Signed this 22 day of _____, 20____.

Signature of Applicant or Agent

Part 2 – Technical Requirements

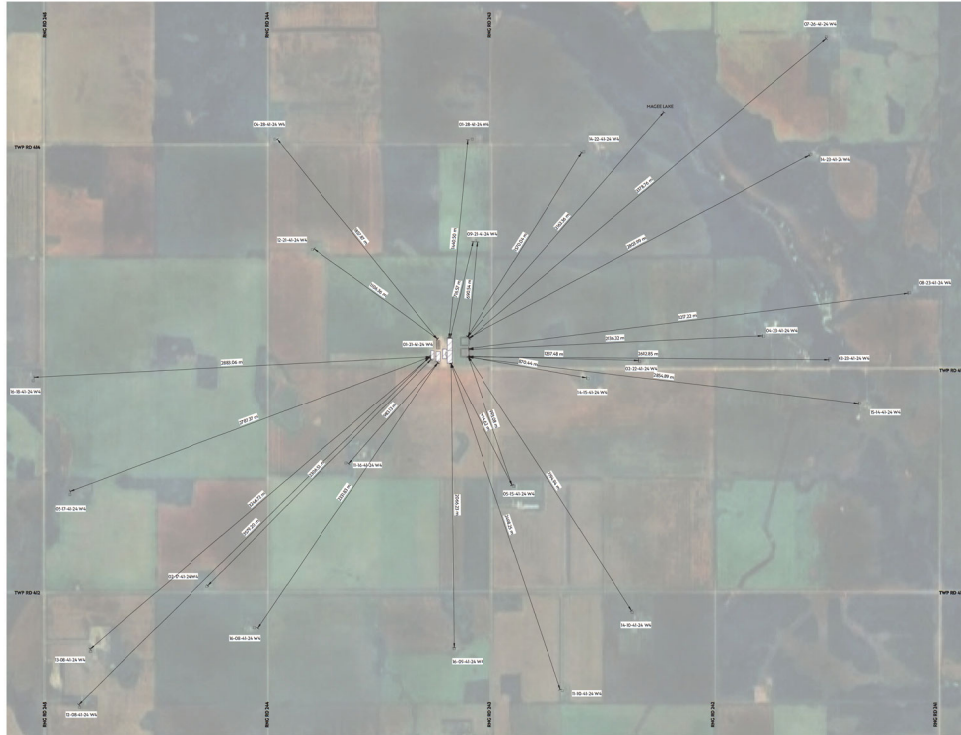
Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

OPTION 4: Uncertain if *Water Act* licence is needed; acknowledgement of risk (for existing CFOs only)

1. At this time, I (we) do not know whether a new water licence is needed from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. If a new *Water Act* licence is needed, I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with additional livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant my *Water Act* licence application, if a new water licence is needed.
5. I (we) acknowledge that any such construction or livestock increase will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7. **Provide:** Water license number(s) or water conveyance agreement details _____

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent



VISION SCALE 1:10000



PRELIMINARY

NOT FOR CONSTRUCTION



Wilpshaar Dairy
Livestock Barn
Lacombe County, Alberta
01-21-41-24-W4

Project No.	AW4000
Date	10/10/2018 09:03:00 AM
Drawn by	JC
Checked by	JC
Sheet Name	

Setback Plan

A101

Part 2 — Technical Requirements

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GENERAL ENVIRONMENTAL INFORMATION

(complete this section for the worst case of the existing facility which is the closest to water bodies or water wells and for each of the proposed facilities)

Facility description / name (as indicated on site plan)

Existing: Livestock barn Proposed 1: Lagoon #2

Proposed 2: Livestock barn addition Proposed 3:

Facility and environmental risk information		Facilities				NRCB USE ONLY	
		Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
Flood plain information	What is the elevation of the floor of the lowest manure storage or collection facility above the 1:25 year flood plain or the highest known flood level?	<input type="checkbox"/> >1 m <input checked="" type="checkbox"/> ≤ 1 m	<input type="checkbox"/> >1 m <input checked="" type="checkbox"/> ≤ 1 m	<input type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
Surface water information	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0	0		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
	How many water wells are within 100 m of the manure storage facility or manure collection area?	0	0	0		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	2249 m	2249 m	2249 m		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
Groundwater information	What is the depth to the water table?	More than 4m	More than 4m	More than 4m		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
	What is the depth to the groundwater resource/aquifer you draw water from?	8.5m	8.5m	8.5m		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	

Additional information (attach supporting information, e.g. borehole logs, records, etc. you consider relevant to your application)

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DISTANCE OF ANY MANURE STORAGE FACILITY (EXISTING OR PROPOSED) TO NEIGHBOURING RESIDENCES

Neighbour name(s)	Legal land description	Distance (m)	NRCB USE ONLY				
			Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Wilpshaar Dairy Ltd	09-21-41-24-W4	690 m					
Sam Catellier	14-15-41-24-W4	870 m					
Law	05-15-41-24-W4	993 m					
Russel Wildeman	11-16-41-24-W4	983 m					
Nobody, empty house	12-21-41-24-W4	1106 m					

LAND BASE FOR MANURE AND COMPOST APPLICATION (complete only if an increase in livestock or manure production will occur)

Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	NRCB USE ONLY	
				Usable area (ha)	Agreement attached (if required)
Wilpshaar Dairy Ltd	SW / NE / SE21-41-24-W4	128	Black		
Van Sevenhoven	NE20-41-24-W4	64	Black		
Wilpshaar Dairy Ltd	SW25-41-24-W4	64	Black		
Van Sevenhoven	NW / NE / SE15-41-24-W4	192	Black		
Van Sevenhoven	NW / SW14-41-24-W4	128	Black		
Total					

* If you are **not** the registered landowner, you must attach copies of land use agreements signed by all landowners.

** Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 [Manure Spreading Regulations](#))

*** Brown, dark brown, black, grey wooded, or irrigated

Additional information (attach any additional information as required)

Manure Spreading Agreement

This agreement is between Wilpshaar Dairy, manure producer, and
van Sevenhoven Farms Manure receiver.

Length of agreement: This agreement is valid for a time period of 3 years
(minimum of three years)

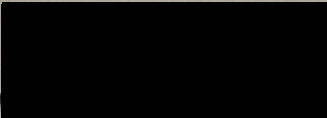
Legal land location	Soil type ¹	Acres suitable for manure spreading ²
NE20-41-24-W4	black	64
NW/NE/SE15-41-24-W4	Black	192
SW 14-41-24-W4	Black	64
NW 4-41-24-W4	Black	64

¹ Soil type choices: Dark brown and brown, Grey wooded, Black, Irrigated.

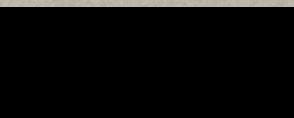
² Land within required setbacks from water bodies, water wells, residences, etc. is not to be included.

Other comments:

Manure producer (confined Feeding Operation) Legal Land Location SE 21-41-24-W4

March 15 2024  Hermannus Wilpshaar Wilpshaar Dairy
Date of signing Signature Print name Corporate name(if appl)

Manure Receiver – Landowner(s)³

March 15 2024  Gerbrand van Sevenhoven Sevenhoven Farms
Date of signing Signature Print name Corporate name(if appl)

Date of signing Signature Print name Corporate name(if appl)

³ All registered owners of land, or authorized signing authorities must sign.

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SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner

(complete a copy of this section for **EACH** barn, feedlot, and storage facility for solid manure, composting materials, or compost with a concrete liner)

Facility description / name (as indicated on site plan) 1. Expantion freestall barn

2. _____

Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m ³)
1.	88m	32m	0	
2.				
TOTAL CAPACITY				

☐ I plan to use a short-term solid manure storage (STMS) as part of my manure storage and handling plan for this CFO. The AOPA requirements for STMS are set out in the NRCB [Short-Term Solid Manure Storage Requirements Fact Sheet](#).

Surface water control systems

Describe the run-on and runoff control system	_____
Berms	_____

Liner protection

Describe how the physical integrity of the liner will be maintained	_____
Inspect for cracks	_____

NRCB USE ONLY

Requirements met: ☐ YES ☐ NO

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SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner (cont.)

Concrete liner details

Concrete thickness 4"	Method of sulphate protection: Type 50
Concrete strength 30 mpa	Concrete reinforcement size and spacing 10mm 12" O/C B/W

Concrete requirements can be found in Technical Guideline Agdex 096-93

Guideline minimums:

Solid manure: 25MPa (D)

Solid manure (wet): 30MPa (C)

Method of sulphate protection:

Type 50 or Type 10 with fly ash or equivalent

NRCB USE ONLY

Requirements met: ☐ YES ☐ NO

Condition required: ☐ YES ☐ NO

Report attached: ☐ YES ☐ NO

Additional information *(attach as required)*

NRCB USE ONLY

Nine month manure storage volume requirements met ☐ YES ☐ YES With STMS ☐ NO

Depth to water table: _____ Requirements met: ☐ YES ☐ NO

Depth to Uppermost groundwater resource: _____ Requirements met: ☐ YES ☐ NO

ERST completed: ☐ see ERST page for details

Surface water control systems

Requirements met: ☐ YES ☐ NO Details/comments:

Concrete liner details

Leakage detection system required: ☐ YES ☐ NO If yes, please explain why.

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Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area and/or manure storage facility(ies)

LIQUID MANURE STORAGE: Synthetic liner

(complete a copy of this section for **EACH** proposed liquid manure storage facility with a synthetic liner)

Facility description / name (as indicated on site plan) 1. Lagoon
2.

Manure storage capacity (use one row in the table for **EACH** cell of the synthetic lined storage, attach additional pages if you require more rows)

	Length (m)	Width (m)	Total depth (m)	Depth below ground level (m)	Slope run:rise			NRCB USE ONLY	
					Inside end walls	Inside side walls	Outside walls	Calculated storage capacity (excl. 0.5 m freeboard) (m³)	Filled in lower ¼? Y/N
1.	60m	60m	4.5m	2.5m	3:1	3:1	4:1		
2.									
TOTAL CAPACITY									

Surface water control systems

Describe the run-on and runoff control system

Berms

Sealing

Describe sealing practices for piping, etc. that penetrates the liner

In cased in Concrete in bottom 1/4

NRCB USE ONLY

Requirements met: ☐ YES ☐ NO

Liner protection

Describe how the inside walls, bottom and outside walls are protected from erosion

Fence

Describe how the physical integrity of the liner will be maintained from other damage

Fence

NRCB USE ONLY

Requirements met: ☐ YES ☐ NO

Part 2 — Technical Requirements

Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area and/or manure storage facility(ies)

LIQUID MANURE STORAGE: Synthetic liner (cont.)

Synthetic liner details

Provide synthetic liner material details

60mil HDPE liner from Layfield

Additional information *(attach copies of design/engineering reports)*

NRCB USE ONLY

Requirements met: ☐ YES ☐ NO

Condition required: ☐ YES ☐ NO

Report attached: ☐ YES ☐ NO

NRCB USE ONLY

Liquid manure storage volume calculator attached: ☐ YES ☐ NO

Depth to water table: _____

Requirements met: ☐ YES ☐ NO

Depth to uppermost groundwater resource: _____

Requirements met: ☐ YES ☐ NO

ERST completed: ☐ see ERST page for details

Surface water control systems

Requirements met: ☐ YES ☐ NO

Details/comments:

Synthetic liner requirements

Leakage detection system required: ☐ YES ☐ NO

If yes, please explain why.

Construction plans approved by professional engineer:

☐ YES ☐ NO

Will liner be installed by manufacturer approved contractor and qualified third party?:

☐ YES ☐ NO

Preparation of liner bed (comments):

Condition required: ☐ YES ☐ NO

HIGH DENSITY POLYETHYLENE (HDPE)

High Density Polyethylene (HDPE) is a versatile material that is used widely across many applications. One of the primary uses of HDPE is as a liner at the base of landfills, where its chemical resistance is put to use. HDPE applications also include pond linings and water containment projects.

April 2023		High Density Polyethylene (HDPE), Black					
Style	ASTM	HDPE 40 Smooth	HDPE 60 Smooth	HDPE 80 Smooth	HDPE 40 Textured	HDPE 60 Textured	HDPE 80 Textured
Nominal Thickness	D5199	40 mil 1.0 mm	60 mil 1.5 mm	80 mil 2.0 mm	38 mil 0.96 mm	57 mil 1.45 mm	76 mil 1.90 mm
Asperity Height	D7466				16 mil 0.4 mm	16 mil 0.4 mm	16 mil 0.4 mm
Density	D792	≥ 0.94 mg/l	≥ 0.94 mg/l	≥ 0.94 mg/l	≥ 0.94 mg/l	≥ 0.94 mg/l	≥ 0.94 mg/l
Tensile Strength Type IV Die	D6693 Yield Strength	84 ppi 15 kN/m	126 ppi 22 kN/m	168 ppi 29 kN/m	84 ppi 15 kN/m	126 ppi 22 kN/m	168 ppi 29 kN/m
	Break Strength	152 ppi 27 kN/m	228 ppi 40 kN/m	304 ppi 53 kN/m	60 ppi 10 kN/m	90 ppi 16 kN/m	120 ppi 21 kN/m
	Yield Elongation 33 mm Gauge Length	12%	12%	12%	12%	12%	12%
	Break Elongation 50 mm Gauge Length	700%	700%	700%	100%	100%	100%
Tear Resistance	D1004	28 lbs 125 N	42 lbs 187 N	56 lbs 249 N	28 lbs 125 N	42 lbs 187 N	56 lbs 249 N

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For up-to-date technical information, be sure to visit us online at www.LayfieldGroup.com

HIGH DENSITY POLYETHYLENE (HDPE)

Stress Cracking	D5397	500 Hours	500 Hours	500 Hours	500 Hours	500 Hours	500 Hours
Puncture Resistance	D4833	72 lbs 320 N	108 lbs 480 N	144 lbs 640 N	60 lbs 267 N	90 lbs 400 N	120 lbs 534 N
Carbon Black Content	D6370	2.0-3.0 %	2.0-3.0 %	2.0-3.0 %	2.0-3.0 %	2.0-3.0 %	2.0-3.0 %
Carbon Black Dispersion	D5596	Cat 1 or 2	Cat 1 or 2	Cat 1 or 2	Cat 1 or 2	Cat 1 or 2	Cat 1 or 2
HPOIT	D5885	400 mins	400 mins	400 mins	400 mins	400 mins	400 mins
Oven aging at 85° C HPOIT - % retained after 90 days	D5721 D5885	80%	80%	80%	80%	80%	80%
UV Resistance High Pressure OIT (min. ave.) - % retained after 90 days	D7238 D5885	50%	50%	50%	50%	50%	50%
Maximum Continuous use Temperature ¹		60°C	60°C	60°C	60°C	60°C	60°C

¹ Please contact Layfield Technical Services for more information

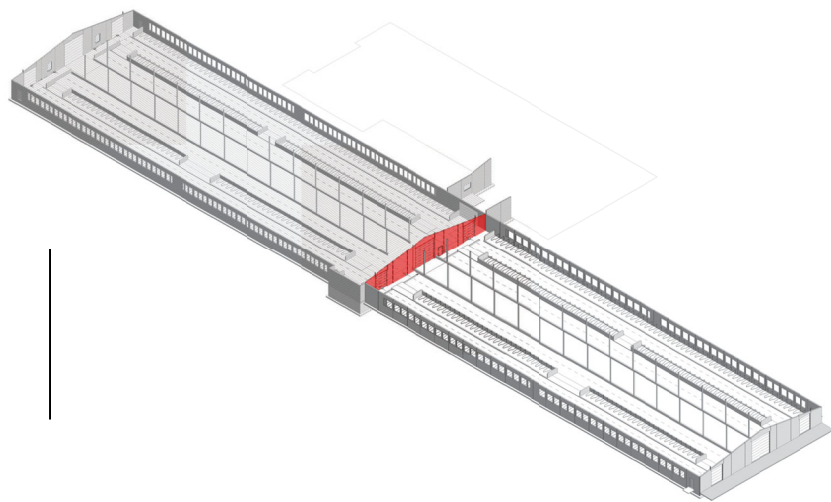
April 2023

HDPE Minimum Field Seam Strengths

Style	ASTM D6392	HDPE 40 Smooth	HDPE 60 Smooth	HDPE 80 Smooth	HDPE 40 Textured	HDPE 60 Textured	HDPE 80 Textured
Bonded Seam Strength Test Temp 23°C, 73°F	25 mm (1") Strip	80 ppi 14 N/mm	120 ppi 21 N/mm	160 ppi 28 N/mm	120 ppi 21 N/mm	120 ppi 21 N/mm	160 ppi 28 N/mm
Peel Adhesion Strength (Extrusion Welds)	25 mm (1") Strip	52 ppi 9 N/mm	78 ppi 14 N/mm	104 ppi 18 N/mm	78 ppi 14 N/mm	78 ppi 14 N/mm	104 ppi 18 N/mm

For up-to-date technical information, be sure to visit us online at www.LayfieldGroup.com

Wilpshaar Dairy



SYMBOL LEGEND	
CONSTRUCTION REFERENCE	CONSTRUCTION TAG
FINISH REFERENCE	EXTERIOR FINISH TAG
GRID NUMBER	GRID NUMBER
DOOR REFERENCE	DOOR TAG
DOOR NUMBER	DOOR TAG
SECTION REFERENCE	SECTION TAG
SECTION NUMBER	SECTION TAG
ELEVATION	ELEVATION TAG
DRAWING NUMBER	DRAWING TAG
DRAWING NUMBER	DRAWING TAG
DRAWING NUMBER	DRAWING TAG
WINDOW REFERENCE	WINDOW TAG
ELEVATION	ELEVATION TAG
DRAWING TITLE	DRAWING TITLE
DRAWING NUMBER	DRAWING NUMBER
SHEET NUMBER	SHEET NUMBER

DRAWING INDEX	
Sheet	Sheet Name
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A001	Site Plan
A002	Site Plan
A003	Site Plan
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Lacombe County, Alberta Livestock Barn

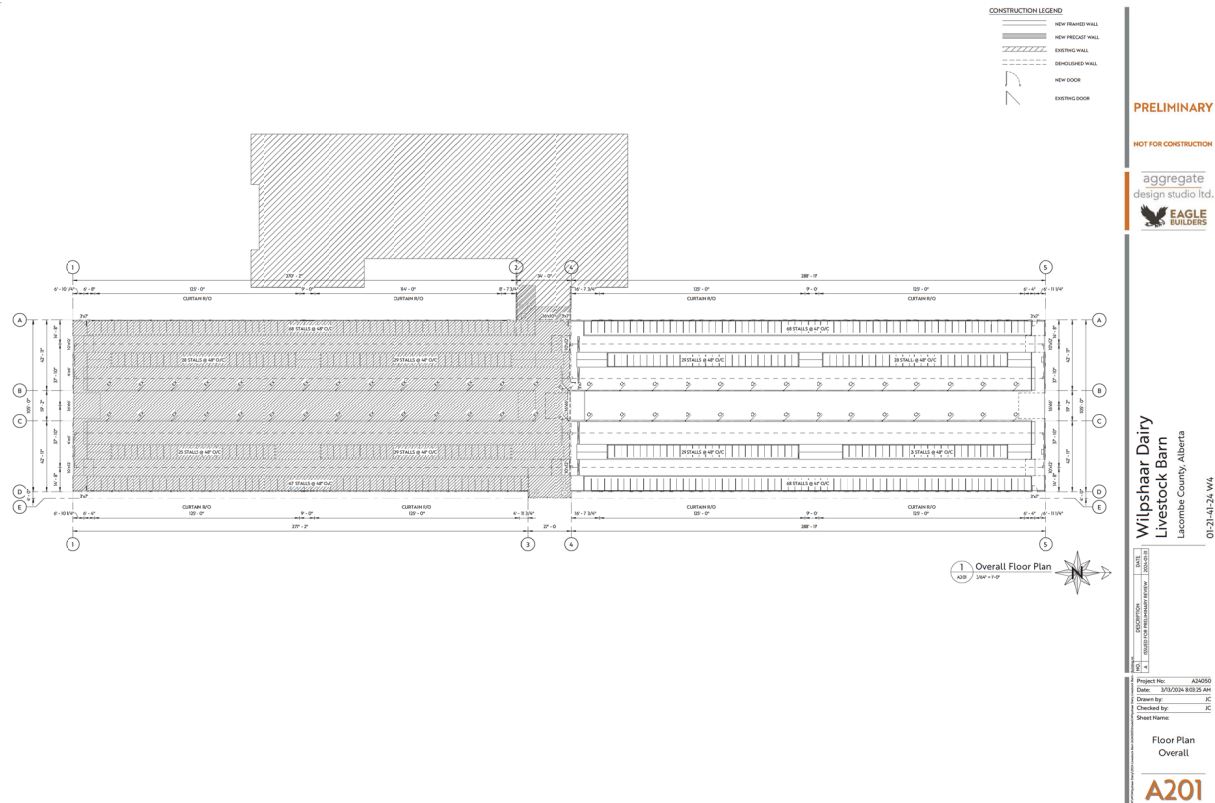
PRELIMINARY
NOT FOR CONSTRUCTION



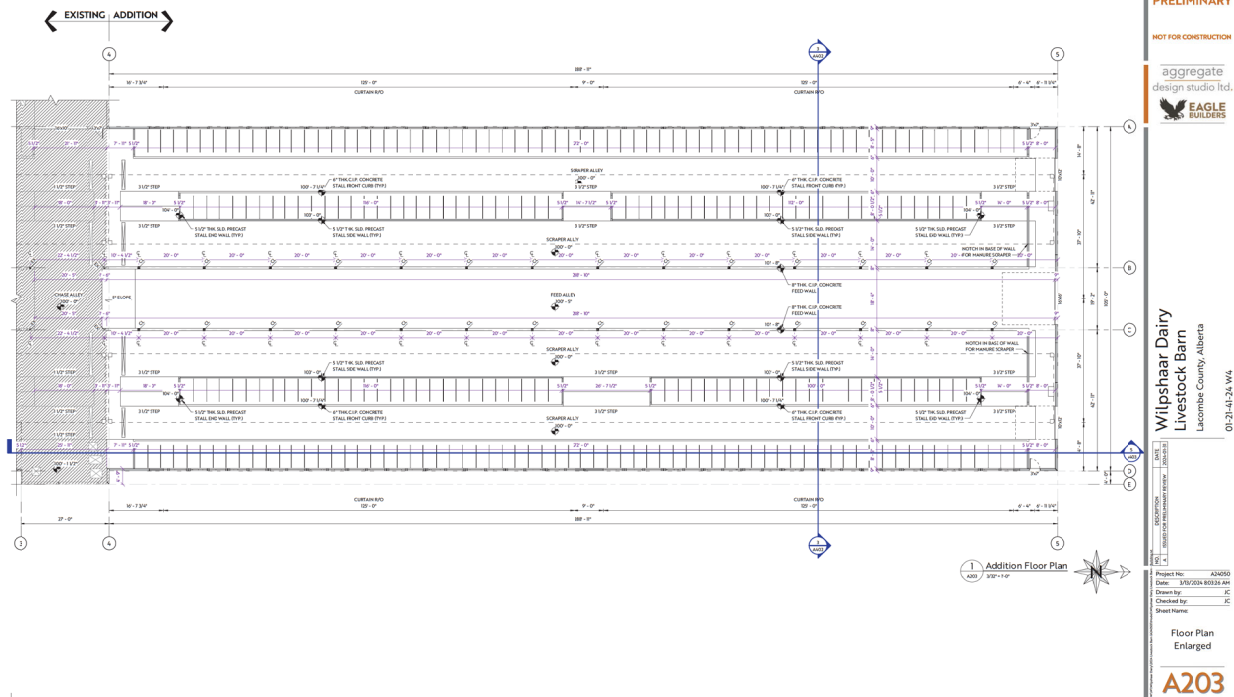
Wilpshaar Dairy
Livestock Barn
Lacombe County, Alberta
01-21-41-24 W4

Project No.	A0000
Date	10/10/2024
Drawn by	JC
Checked by	JC
Sheet Name	

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A000







PRELIMINARY

NOT FOR CONSTRUCTION

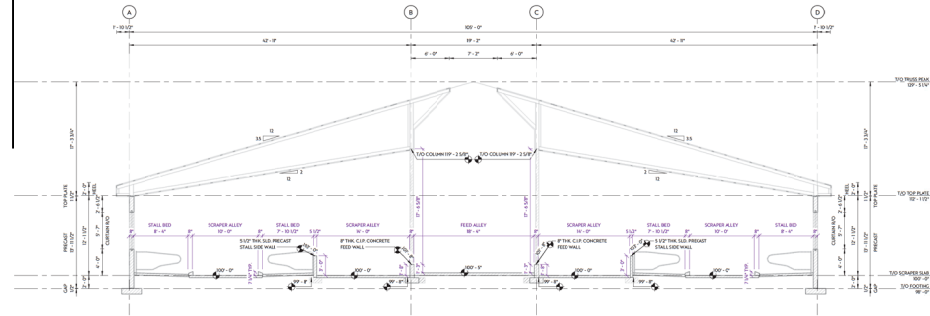
aggregate
design studio ltd.
EAGLE
BUILDERS

Wilpshaar Dairy
Livestock Barn
Lacombe County, Alberta
01-21-41-24, W4

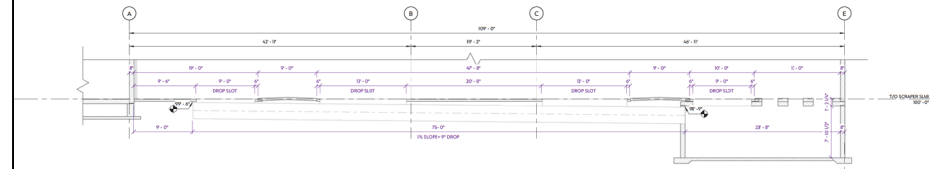
Project No. A203
Date: 10/10/2018
Drawn by: JC
Checked by: JC
Sheet Name:

Floor Plan
Enlarged

A203



1 Building Section - Existing
Scale: 1/4" = 1'-0"



2 Culvert Section - Existing
Scale: 1/4" = 1'-0"

PRELIMINARY

NOT FOR CONSTRUCTION

aggregate
design studio ltd.
EAGLE
BUILDERS

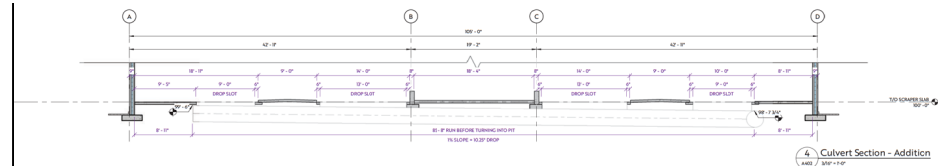
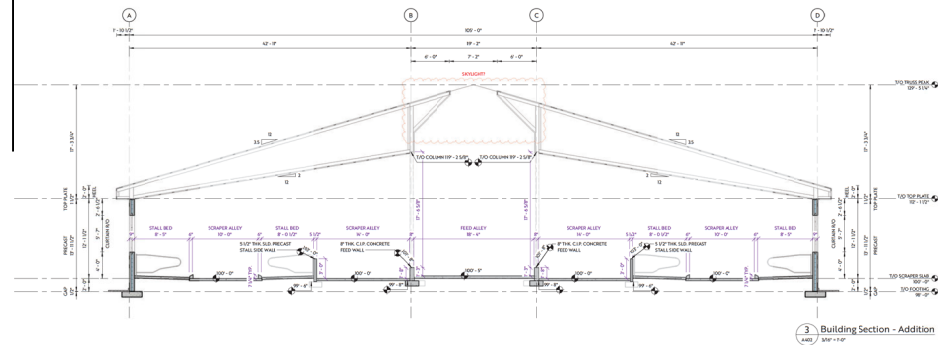
Wilpshaar Dairy
Livestock Barn
Lacombe County, Alberta
01-21-41-24 W4

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT REVIEW	2024-01-21

Project No. A4000
Date: 10/10/2024 08:00 AM
Drawn by: JC
Checked by: JC
Sheet Name:

Building
Sections

A401



PRELIMINARY

NOT FOR CONSTRUCTION

aggregate
design studio ltd.

 **EAGLE
BUILDERS**

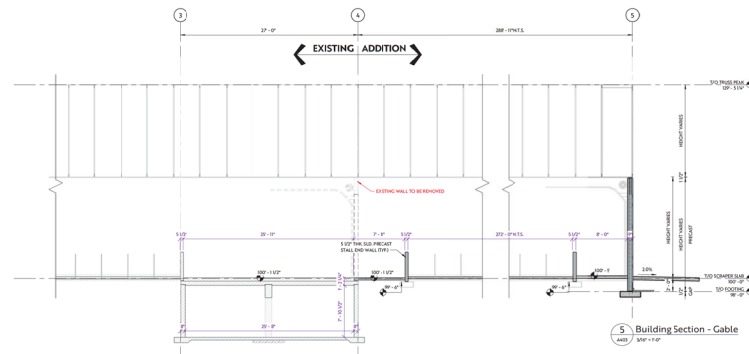
Wilpshaar Dairy
Livestock Barn
Lacombe County, Alberta
01-21-41-24 W4

[illegible]

Project No:	A24050
Date:	3/13/2024 8:03:28 AM
Drawn by:	JC
Checked by:	JC

Building Sections

A402



PRELIMINARY

NOT FOR CONSTRUCTION

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**EAGLE
BUILDERS**

Wilpshaar Dairy
Livestock Barn
Lacombe County, Alberta
01-21-41-24 W4

[illegible]

Project No:	A24050
Date:	3/13/2014 8:03:29 AM
Drawn by:	JC
Checked by:	JC
Sheet Name:	

A403



Government

LICENCE AMENDMENT

PURSUANT TO THE PROVISIONS
OF THE *WATER ACT*

LICENCE No. 00403525-00-00

FILE No. 00403525


PRIORITY No. 2017-10-26-002

AMENDMENT No. 00403525-00-01

LICENSEE: Wilpshaar Dairy Ltd.

The Licence is amended as follows:

1. Change the Birdhill Farms Ltd. to Wilpshaar Dairy Ltd. (the Licensee).


Designated Director under the Act
Todd Aasen, P.Eng.
Red Deer North Saskatchewan Region

November 20, 2018

Dated