

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	Application number	Legal land description
<input type="checkbox"/> Approval <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Authorization <input type="checkbox"/> Amendment	RA24021	NE 2-40-28 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.

June 5, 2024

Date of signing

Wild Rose Holsteins Ltd.

Corporate name (if applicable)

Signature

Arjan Ijzerman

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)
Dairy Barn Addition	47.09, 34.80, 0.00
- Straw Pack <i>within the proposed dairy barn addition</i>	30.39, 11.43 x 0.11m

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Dairy Barn	64m x 16m	confirmed
Milking Parlour	17m x 20m	confirmed
Lagoon	95m x 65m x 4.5m	confirmed
NRCB USE ONLY		

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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) _____

Signed this ____ day of _____, 20____.

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 00224891-00-00

Signed this 05 day of June, 2024.

Signature of Applicant or Agent

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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*).
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7. **Provide:** Water license number(s) or water conveyance agreement details _____

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent



Stamp:

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NOT FOR CONSTRUCTION

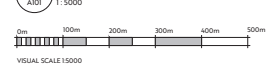


Wildrose Holsteins
Dairy Barn Addition
Lacombe County, AB
09-02-40-28 W4

NO.	DESCRIPTION	DATE
1	ISSUED FOR PRELIMINARY REVIEW	2024-04-26

Project No: A24227
Date: 5/9/2024 3:49:20 PM
Drawn by: ER, JC
Checked by: JC
Sheet Name:

Neighbour Plan



Neighbour Plan



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<https://plan.ly/2wB8bKA>



NOTES CONCERNING BUILDING LOCATION

- THIS SITE PLAN IS BASED ON INFORMATION PROVIDED BY THE OWNER, AND NOT A SURVEY OR ACTUAL SITE MEASUREMENTS. ENGINEER IS TO BE ADVISED BEFORE START OF CONSTRUCTION OF ANY UNKNOWN FEATURES ON THIS OR THE ADJACENT SITES THAT MIGHT IMPACT ON THE PROJECT EITHER DURING CONSTRUCTION OR FUTURE USE.
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- LANDSCAPING IS SUBJECT TO CHANGE.

SITE PLAN LEGEND

PROPERTY LINE	---
SETBACK LINE	---
RIGHT OF WAY LINE	---
RIGHT OF WAY HATCH	XXXXXX
PROPOSED BUILDING	▨
SERVICE ROOM	▨
FENCE	▨
MAN DOOR	▾
OVERHEAD DOOR	▾
BARBER FEE	▾
ENTRANCE	▾

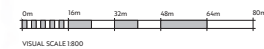
SITE SCHEDULE

ON SITE	APRON	SIDEWALK
308.5 m ²	3,320.67 ft ²	15.00 m ²
310.0 m ²	3,336.67 ft ²	310.0 m ²
GRAND TOTAL	310.0 m²	3,336.67 ft²

SITE MATERIAL LEGEND

APRON	▨
SIDEWALK	▨
LIGHT DUTY ASPHALT	▨
HEAVY DUTY ASPHALT	▨
GRAVEL	▨
LANDSCAPING	▨
HARD LANDSCAPING	▨
MULCH	▨

1 Site Plan
A102 1:800



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Wildrose Holsteins
Dairy Barn Addition
Lacombe County, AB

09-02-40-28 W4

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Project No: A24227
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Sheet Name:

Site Plan

A102

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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: Dairy Barn

Proposed 1: Dairy Barn Addition

Proposed 2:

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 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"/> ≤ 1 m	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	>1m above flood plain
	How many springs are within 100 m of the manure storage facility or manure collection area?	None	None			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None observed during site visit
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	2	2			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES with exemption	Exemption for 2 water wells and monitoring condition already in place
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	200m	200m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Slough 160m SW of CFO
Groundwater information	What is the depth to the water table?		3.5m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Water table identified at 6m in engineering reports
	What is the depth to the groundwater resource/aquifer you draw water from?	26m	26m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	UGR identified at 20.1m in WW ID 273502

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

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
ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for **proposed** facilities

Facility	Groundwater score	Surface water score	File number
Dairy barn addition	Low	Low	RA24021

ERST for **existing** facilities

Facility	Groundwater score	Surface water score	File number
All existing CFO facilities	Low	Low	RA12025, RA14015, RA15029, RA16058
			RA17066, RA21033

ERST related comments:

Part 2 – Technical Requirements

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NRCB USE ONLY

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: 40037, 257960, 273506, 273510 registered to NE 2-40-28 W4M

Surface water related concerns from directly affected parties or referral agencies: YES NO

Groundwater related concerns from directly affected parties or referral agencies: YES NO

Water wells N/A

If applicable, exemption for 100 m distance requirements applied: YES NO Condition required: YES NO

Surface water N/A

If applicable, exemption for 30 m distance requirements applied: YES NO Condition required: YES NO

Water Well Exemption Screening Tool N/A

Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility
257960	9	NA	Dairy Barn Addition
40037	16	7	Dairy Barn Addition

Groundwater or surface water related comments:

Monitoring condition already in place in RA12025

Preliminary screening score of 9: Exemption more likely; do not complete next section

Preliminary screening score of 16: Continue to next section

Secondary screening score of 7: Exemption more likely

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NRCB USE ONLY

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

July 8, 2024	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: June 14, 2024

Municipality: Lacombe County

letter sent response received written/email verbal no comments received

Alberta Health Services: N/A

letter sent response received written/email verbal no comments received

Alberta Environment and Parks: N/A

letter sent response received written/email verbal no comments received

Alberta Transportation: N/A

letter sent response received written/email verbal no comments received

Alberta Regulatory Services: N/A

letter sent response received written/email verbal no comments received

Other: EQUUS (ROW holder) N/A

letter sent response received written/email verbal no comments received

Other: _____ N/A

letter sent response received written/email verbal no comments received

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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
New Neighbors	16-02-40-28 W4	585.37	Agricultural	1	522m	NA	Yes
Woodynook CRC	01-11-40-28 W4	834.78	Agricultural	1	770m	NA	Yes
Woodynook CRC is a church not a residence							

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)
N/A for authorizations					
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)

Building plans attached to email.

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NRCB USE ONLY

MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): Google Earth

Margin of error (if applicable): +/- 5m

Requirements (m): Category 1: 487 Category 2: 650 Category 3: 812 Category 4: 1300

Technology factor: YES NO

Expansion factor: YES NO

MDS related concerns from directly affected parties or referral agencies: YES NO

LAND BASE FOR MANURE AND COMPOST APPLICATION

Land base required: Not required for Authorization applications

Land base listed: _____

Area not suitable: _____

Available area: _____

Requirement met: YES NO

Land spreading agreements required: YES NO

Manure management plan: YES NO If yes, plan is attached:

PLANS

Submitted and attached construction plans: YES NO

Submitted aerial photos: YES NO

Submitted photos: YES NO

GRANDFATHERING

Already completed: YES NO N/A

If already completed, see Approval RA05045, superseded by Approval RA12025

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)

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. Proposed Barn Addition including the straw pack
 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.	30.39	11.43	0.11	cleaned daily
These are dimensions for the straw pack; total proposed barn addition is 47.09m x 34.8m				
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
 Runoff from pack will go into scraper alley

Liner protection

Describe how the physical integrity of the liner will be maintained
 Inspect regularly and fix cracks as needed

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: Flyash or Type 50
Concrete strength 32MPa	Concrete reinforcement size and spacing 12" x 12" grid, single layer, 10M rebar grid

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: 6m Requirements met: YES NO

Depth to Uppermost groundwater resource: 20.1m Requirements met: YES NO

ERST completed: see ERST page for details

Surface water control systems

Requirements met: YES NO Details/comments:

Concrete liner details

Condition requiring the applicant to provide documentation of the concrete used to build the concrete liner of the expansion to the dairy barn will be included in the authorization

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

Wildrose Holsteins

Stamp:

PRELIMINARY

NOT FOR CONSTRUCTION



SYMBOL LEGEND

CONSTRUCTION REFERENCE		CONSTRUCTION TAG
FINISH REFERENCE		EXTERIOR FINISH TAG
GRID NUMBER		GRID BUBBLE
DOOR REFERENCE		DOOR TAG
ROOM NUMBER		ROOM TAG
DESCRIPTION		ELEVATION DATUM
DRAWING NUMBER		BUILDING SECTION CALLOUT
SHEET NUMBER		ELEVATION CALLOUT
WINDOW REFERENCE		WINDOW TAG
ELEVATION		ELEVATION TAG
DRAWING TITLE		DRAWING TITLE

DRAWING INDEX

Sheet Number	Sheet Name	Current Revision
A000	Index	C
A101	Neighbour Plan	A
A102	Site Plan	A
A201	Floor Plan Overall	C
A202	Enlarged Floor Plan - Existing	C
A203	Enlarged Floor Plan - Addition	C
A401	Building Sections	C
A402	Building Sections	C

Sheet Count: 8

Wildrose Holsteins
Dairy Barn Addition
Lacombe County, AB

09-02-40-28 W4

NO.	DESCRIPTION	DATE
A	ISSUED FOR PRELIMINARY REVIEW	2024-04-26
B	ISSUED FOR PRELIMINARY REVIEW	2024-05-01
C	ISSUED FOR PRELIMINARY REVIEW	2024-05-20

Project No:	A24227
Date:	5/9/2024 3:49:19 PM
Drawn by:	ER, JC
Checked by:	JC
Sheet Name:	

Index

A000

Lacombe County, AB

Dairy Barn Addition

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Dairy Barn Addition
Lacombe County, AB
09-02-40-28 W4

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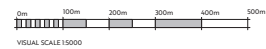
Project No: A24227
Date: 5/9/2024 3:49:20 PM
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Checked by: JC
Sheet Name:

Neighbour Plan



Neighbour Plan

A101 1:5000



VISUAL SCALE 1:5000



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<https://plan.ly/2wB8bKA>



NOTES CONCERNING BUILDING LOCATION

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- LANDSCAPING IS SUBJECT TO CHANGE.

SITE PLAN LEGEND

PROPERTY LINE	---
SETBACK LINE	---
RIGHT OF WAY LINE	---
RIGHT OF WAY HATCH	XXXXXX
PROPOSED BUILDING	▨
SERVICE ROOM	▨
FENCE	▬
MAN DOOR	▼
OVERHEAD DOOR	▽
BARRIER FREE ENTRANCE	▽

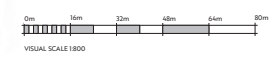
SITE SCHEDULE

ON SITE		
APRION	308.5 m ²	3,320.67 ft ²
SIDEWALK	1.5 m ²	16.00 ft ²
GRAND TOTAL	310.0 m ²	3,336.67 ft ²

SITE MATERIAL LEGEND

APRION	▨
SIDEWALK	▨
LIGHT DUTY ASPHALT	▨
HEAVY DUTY ASPHALT	▨
GRAVEL	▨
LANDSCAPING	▨
HARD LANDSCAPING	▨
MULCH	▨

1 Site Plan
A102 1:800



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Wildrose Holsteins
Dairy Barn Addition
Lacombe County, AB
09-02-40-28 W4

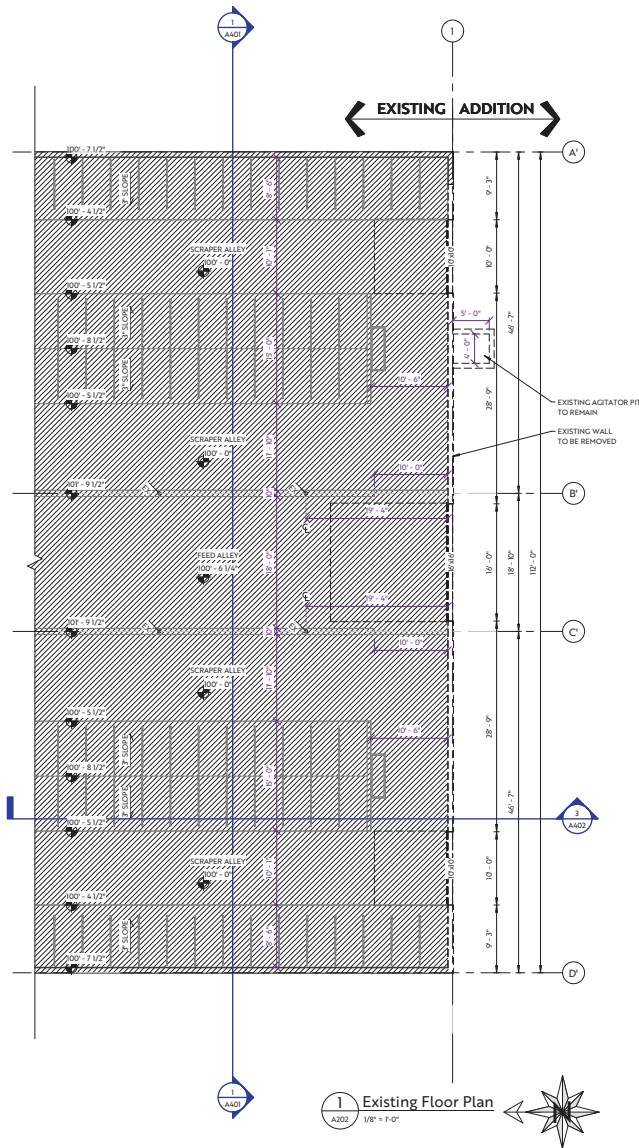
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Project No: A24227
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Site Plan

A102

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1 Existing Floor Plan
A202 1/8" = 1'-0"

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Wildrose Holsteins
Dairy Barn Addition
Lacombe County, AB
09-02-40-28 W4

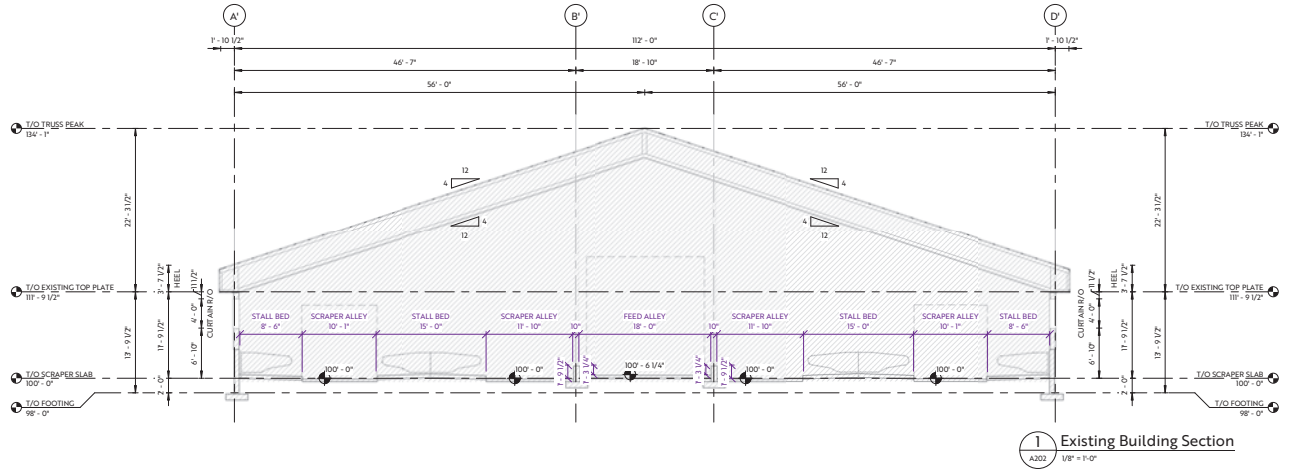
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C	ISSUED FOR PRELIMINARY REVIEW	2024-05-29

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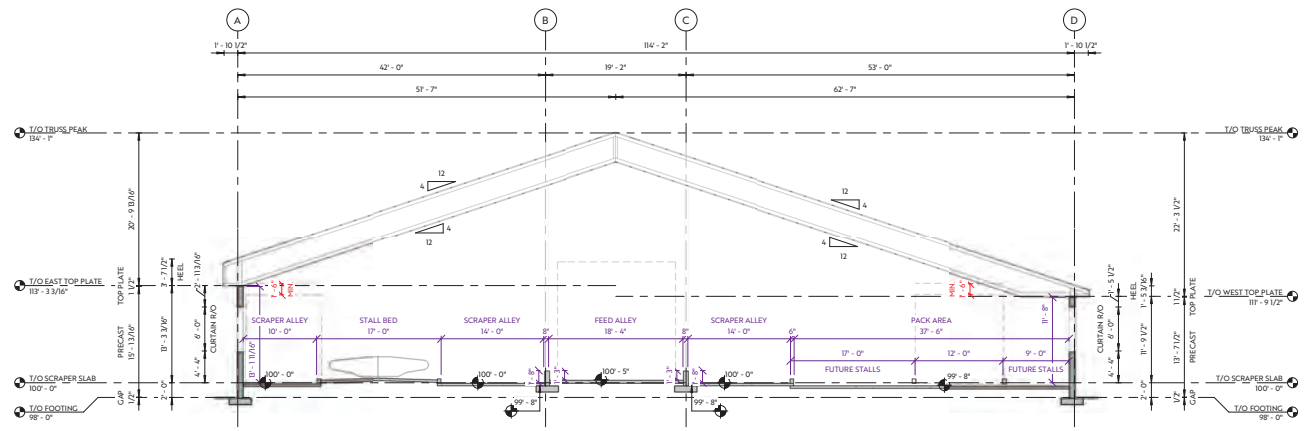
Enlarged Floor Plan - Existing

A202

DO NOT SCALE DRAWING. VERIFY ALL DIMENSIONS, DATUMS AND LEVELS PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT IMMEDIATELY. ALL WORK MUST COMPLY WITH THE MOST RECENT EDITION OF THE APPLICABLE BUILDING CODE AND ANY OTHER GOVERNING AUTHORITIES. THIS IS A COPYRIGHT DRAWING AND SHALL NOT BE REPRODUCED OR REVISED WITHOUT THE WRITTEN CONSENT OF THE CONSULTANT.



1 Existing Building Section
A201 1/8" = 1'-0"



2 Addition Building Section
A201 1/8" = 1'-0"

Stamp:

PRELIMINARY
NOT FOR CONSTRUCTION



Wildrose Holsteins Dairy Barn Addition
Lacombe County, AB

09-02-40-28 W4

NO.	DESCRIPTION	DATE
A	ISSUED FOR PRELIMINARY REVIEW	2024-04-26
B	ISSUED FOR PRELIMINARY REVIEW	2024-05-29
C	ISSUED FOR PRELIMINARY REVIEW	2024-05-29

Project No: A2427
Date: 5/9/2024 3:49:28 PM
Drawn by: ER, JC
Checked by: JC
Sheet Name:

Building Sections

A401

DO NOT SCALE DRAWING - VERIFY ALL DIMENSIONS, DATUMS AND LEVELS PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT IMMEDIATELY. ALL WORK MUST COMPLY WITH THE MOST RECENT EDITION OF THE APPLICABLE BUILDING CODE AND ANY OTHER GOVERNING AUTHORITIES. THESE ARE COPYRIGHT DRAWINGS AND SHALL NOT BE REPRODUCED OR REVISED WITHOUT THE WRITTEN CONSENT OF THE CONSULTANT.

