

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 <u>RA24049</u>	Legal land description <u>SE 26-41-7 W4M</u>
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment		

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.

November 26-2024
Date of signing

[Redacted]
Signature

Rosewood Colony
Corporate name (if applicable)

Mike W r I.
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)
<u>New Layer Barn 20000.</u>	270'8" x 110'1" 195.8' x 61.2' (59.7 m x 18.7 m)
AO note: barn includes attached solid manure storage: 61'.2" x 30' (18.7 m x 9.1 m) and an ancillary portion (16.6 m x 33.6 m)	

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
<u>Layer Barn.</u>	<u>87.3 x 18.9</u>	
	285 x 60	Existing facility confirmed
<u>Manure Storage.</u>	<u>15.3 x 15.8</u>	
NRCB USE ONLY	49'2 1/4" x 49'2 1/4"	
Existing layer barn with attached manure storage dimensions: 86.7 m x 15.8 m		
Registration RA16074 also permitted a pullet barn which was never built.		

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

N/A

Construction completion date for proposed facilities 2027

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
Poultry Layers	15000	20000	35000
AO note: Applicant has also requested to decrease the chicken pullet numbers from 15,000 to zero			

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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 26 day of November, 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 _____ day of _____, 20_____.

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*).
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



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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: Layer Barn

Proposed 1: New Layer Barn

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	Not in known flood plain
	Surface water information	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0	/	/	<input checked="" 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	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption			None identified
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	30	30	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption			~60 m from slough
Groundwater information	What is the depth to the water table?	30'	30'	/	/	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	~5.5 m
	What is the depth to the groundwater resource/aquifer you draw water from?	290'	290'			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	59 m using WWID 1576404

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

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NRCB USE ONLY

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: 1576404 1576414

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

Groundwater or surface water related comments:

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NRCB USE ONLY
ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
New layer barn with attached solid manure storage	Low	Low	RA24049

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
Existing layer barn with solid manure storage	Low	Low	RA16074

ERST related comments:

New facilities that meet or exceed AOPA requirements are assumed to pose a low risk to surface water and groundwater.

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

AO note: applicant did not provide distances to neighbors

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
Pederson K Wymans	SW-14-41-7-W4		Ag	1	3,705	N/A	Yes to all
Hayes, Patty & Kevin	NE-28-41-7W4		Ag	1	3,007		
Kricsz Norma x Ronald	SW-28-41-7-W4		Ag	1	4,033		
Kennedy, Robert W	NW-34-41-7-W4		Ag	1	3,708		
Wahlstrom Donald x Deb	NE-5-42-6-W4		Ag	1	6,211		
	AO added: Unknown NE-14-41-7-W4		Ag	1	2,553		

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)
Rosewood Colony	A1135-41-7-W4	223	Dark Brown		
Total				223 ha	

* 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)

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NRCB USE ONLY

MINIMUM DISTANCE SEPARATION

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

Margin of error (if applicable): +/- 3 m

Requirements (m): Category 1: 363 Category 2: 484 Category 3: 605 Category 4: 968

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: 193 ha

Land base listed: 223 ha

Area not suitable: N/A

Available area: 223 ha

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 _____

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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. New Layer Barn.
2. Solid manure storage (attached)

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.	59.7 m 270'8" 1000'	18.7 m 110'8"	0	
2.	18.7 m	9.1 m	0	
TOTAL CAPACITY				Sufficient 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

In close Barn.

Liner protection

Describe how the physical integrity of the liner will be maintained

Check 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 <i>5'706"</i>	Method of sulphate protection: <i>Type 50</i>
Concrete strength <i>25 mm</i>	Concrete reinforcement size and spacing <i>16' on centre</i>

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: 5.5 m Requirements met: YES NO
 Depth to Uppermost groundwater resource: 59 m Requirements met: YES NO
 ERST completed: see ERST page for details

Surface water control systems

Requirements met: YES NO Details/comments:

Concrete liner details

A condition will be added requiring the concrete liner to meet the specifications for category D (solid manure-dry) in Technical Guideline 096-93 "Non-Engineered Concrete Liners for Manure Collection and Storage Areas".

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

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NRCB USE ONLY

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

November 26, 2024	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: January 8, 2025

Municipality: MD of Provost

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: Natural Gas Co-op Ltd., and Fortis Alberta Inc. N/A

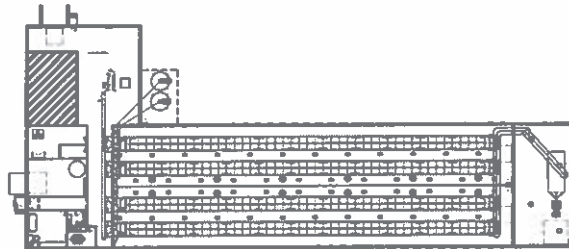
letter sent response received written/email verbal no comments received

Other: _____ N/A

letter sent response received written/email verbal no comments received



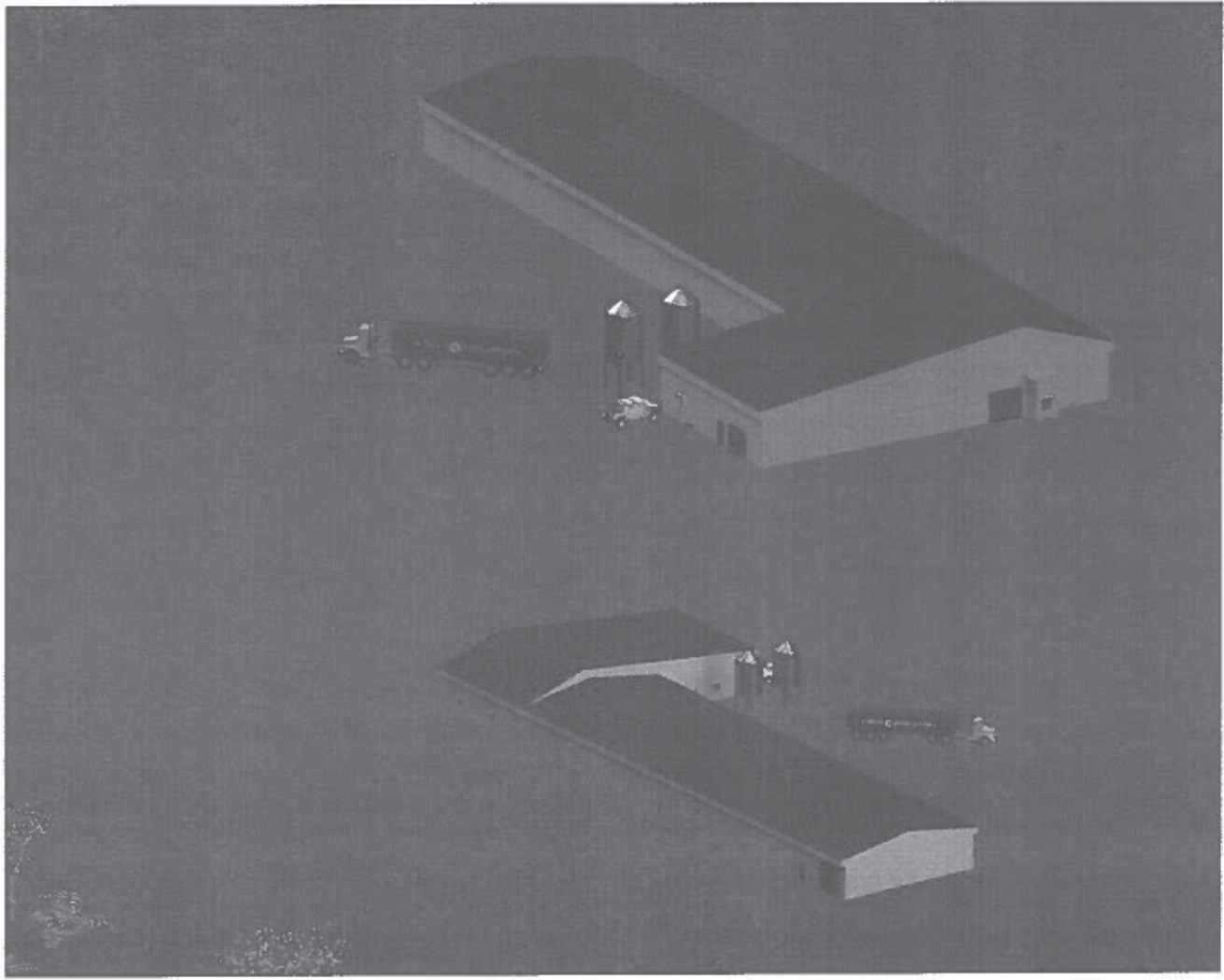
ROSEWOOD COLONY
CZAR ALBERTA
LAYER BARN CONCEPT 2025




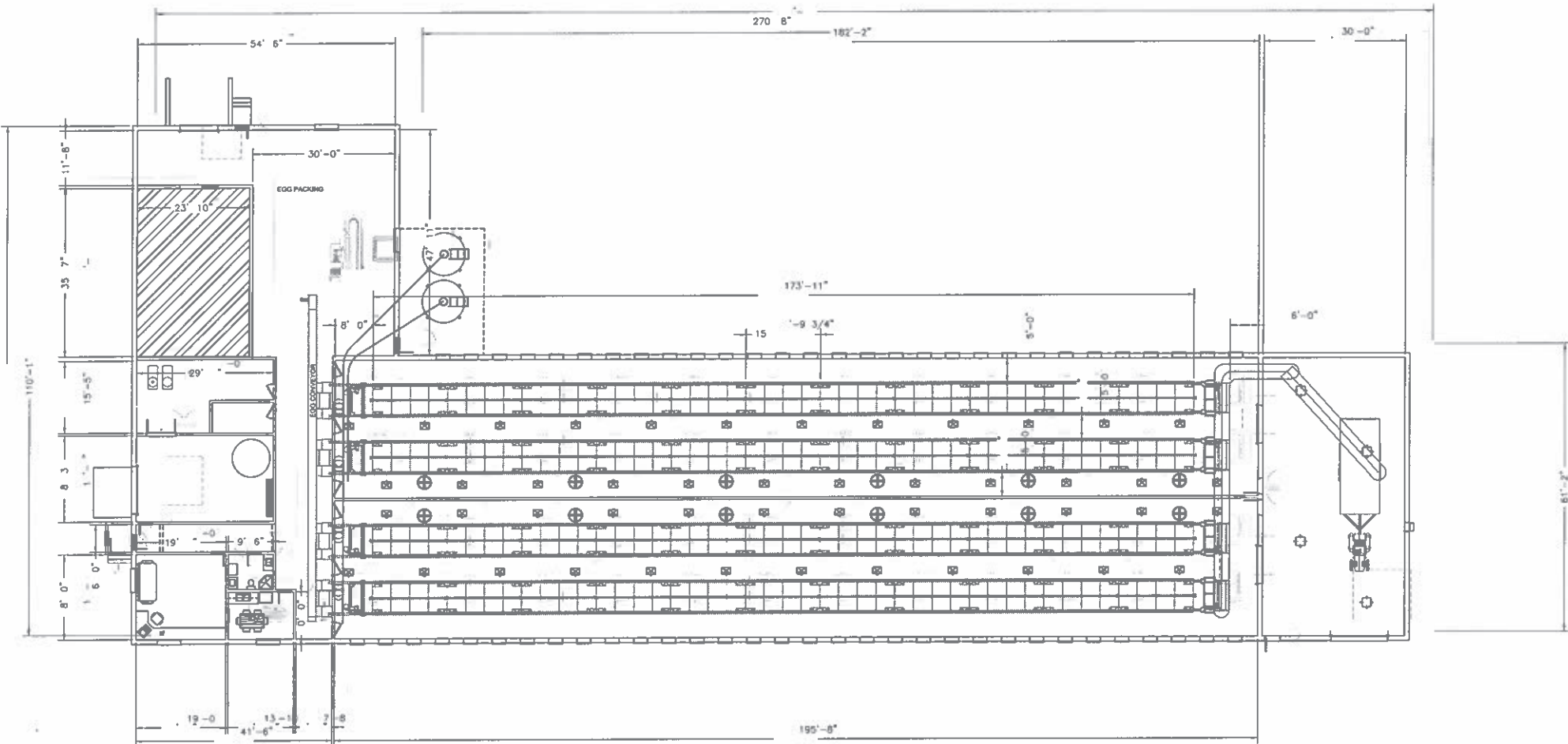
6 Nicolas Avenue, Winnipeg, MB, Canada R2J 0T5
Toll free: 1 800 233 6913
Phone: 204-231-3354 - Fax: 204 231 8574



4012 North Cliff Avenue, Sioux Falls, SD, USA 57104
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Website: www.nebulagroup.ca



ENGINEER'S SEAL	ISSUE ISSUED FOR PERMIT USE ONLY	REVISIONS				 6 Nicolas Avenue, Winnipeg, MB Canada R2J 0T5 Phone: (204) 231-5354 Fax: (204) 231-8574	CLIENT ROSEWOOD COLONY CZAR ALBERTA		PROJECT NAME LAYER BARN 2025	
		DATE CREATED November 26, 2024	DRAWN 24	LIST DATE 2024	SCALE AS NOTED		SHEET TITLE ELEV. CONCEPT 3D	SHEET NO. 2		
		REV. NO.	DESCRIPTION	DATE	BY					



ENGINEER'S SEAL	ISSUE ISSUED FOR PERMIT USE ONLY	REVISIONS				  © Nicolas Avenue, Winnipeg, MB Canada R2J 0T3 Phone: (204) 231-3354 Fax: (204) 231-8574	CLIENT ROSEWOOD COLONY CZAR ALBERTA		NAME LAYER BARN 2025	
		REV. NO.	DESCRIPTION	DATE	BY		DATE CREATED November 26, 2024	DESIGN November 26, 2024	LAST COST STORED November 26, 2024	SHEET 1

