

Technical Document LA24010



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 checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	LA24010

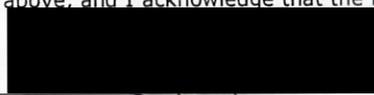
APPLICATION DISCLOSURE

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.

Feb 23/2024
 Date of signing
 Hutterian Brethren of Waterton Colony
 Corporate name (if applicable)


 Signature
 Henry Hofer
 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)

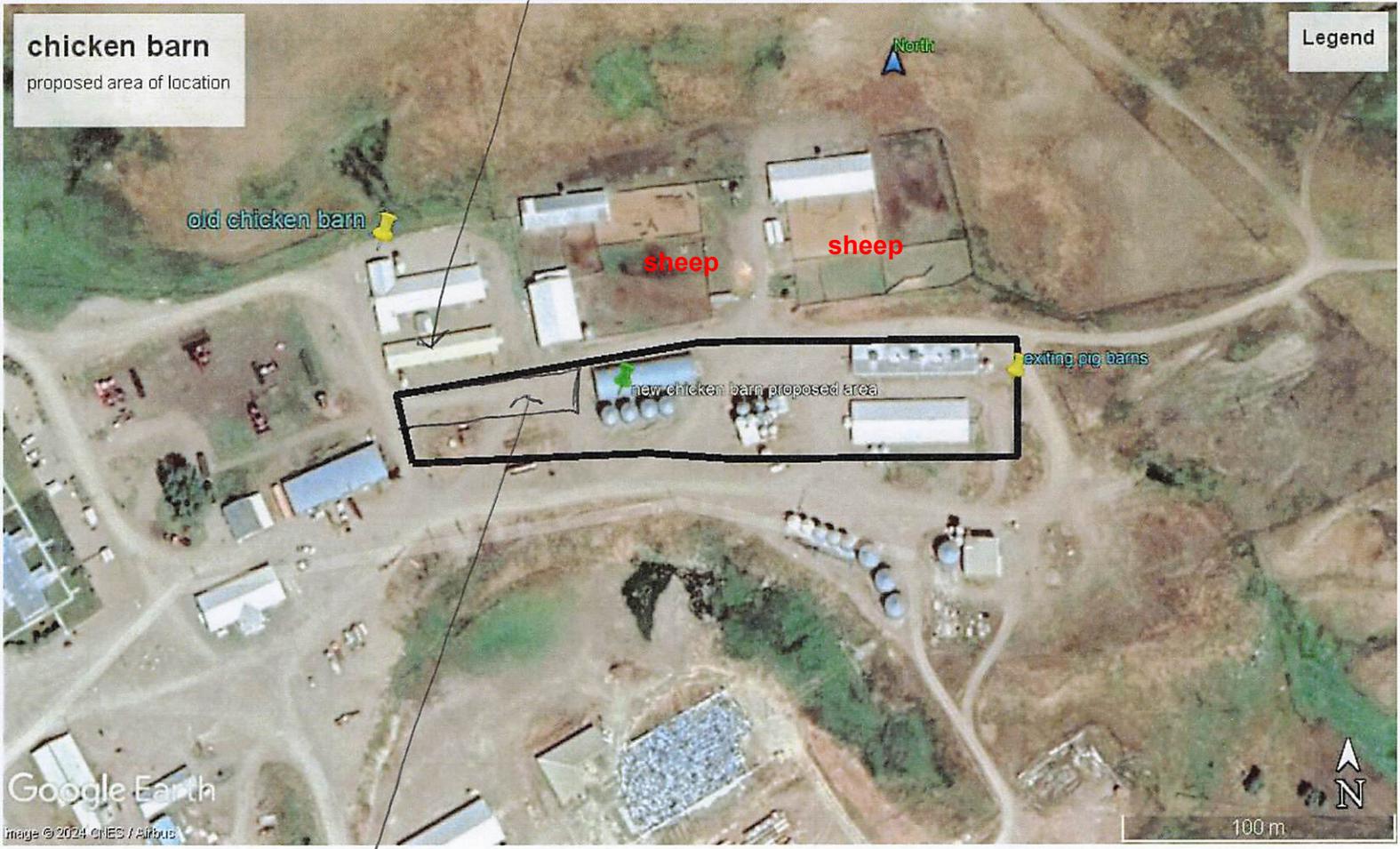
Proposed facilities	Dimensions (m) (length, width, and depth)
New chicken barn replacing existing barn.	21m wide, 76m long
Attached manure storage above grade	21m x 11m

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
dry cow pen	48.8m 106.7m	total 8000m ² (*)
chicken barn	40m x 12m	confirmed

NRCB USE ONLY

(*) the cow pens consist of two rows with shelter and an irregular shaped larger pen.



PULLET BARN

chicken barn
proposed area of location

old chicken barn

sheep

sheep

new chicken barn proposed area

existing pig barns

Google Earth
Image © 2024 CNES / Airbus

100 m

NEW CHICKEN BARN

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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

Once the new chicken barn is completed the old barn will possibly be used as an additional pullet grower barn if needed.

Construction completion date for proposed facilities 2027/2028

Additional information

The new chicken barn is planned to be constructed in the area (outlined in black) on the google maps document.

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
AO comment: The application is for an increase in:			
chicken layer numbers from 6000 to 25,000			
chicken pullets from 1500 to 15,000			
milking cows (plus associated livestock) from 80 to 140			
and a decrease from sow farrow to finish from 180 to 80			

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DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

issued by Alberta Environment and Parks (AEP) 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 AEP 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** AEP'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 AEP 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 AEP'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.

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 AEP under the *Water Act* for the development or activity proposed in this AOPA application.

Signed this 23 day of Feb, 2024.

Signature of Applicant or Agent

AO comment: Waterton Colony is in contact with EPA to get all licenses in place

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 AEP 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** AEP'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 AEP 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 AEP'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.

Signed this ____ day of _____, 20____.

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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: old chicken barn Proposed 1: new chicken 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 located in flood plain
	Surface water information						
	How many springs are within 100 m of the manure storage facility or manure collection area?	1	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	More than 100 m away from the new barn
	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	More than 100 m away from the new barn
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	405m	260m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	342 m to Waterton River, 148 m to tributary (unnamed creek)
Groundwater information	What is the depth to the water table?		2.5m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	between 3-4 m below ground (LA08032)
	What is the depth to the groundwater resource/aquifer you draw water from?	48m	48m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Well ID 2095692 about 54 m deep Not within 100 m of MSF/MCA

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

Last updated February 26, 2021

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NRCB USE ONLY
ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
chicken layer barn	low	low	LA24010

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
Dairy (new barn, heifer pens, catch basin, slurry tank)	low	low	LA10062
Hog barns	low	low	LA24010
Feedlot	low	low	LA24010
old chicken barns	low	low	LA24010

ERST related comments:

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WATER WELL AND SURFACE WATER INFORMATION

Well IDs: Old well: 2095692 _____

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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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
CAMBURR	S35, T3, R28, 4W, SW	816m	A	1	808 m		yes
Tom Palmer (dairy manure storage)	S34, T3, R28, 4W, NW	871m	A	1	729 m		yes
Tom Palmer (new chicken Barn)	S34, T3, R28, 4W, NW	1100m	A	1	1148 m		yes

A=Agriculture

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)
Waterton Colony	S9, T4, R28, 4W, S1/2	70	Dark brown/black	entire section 9: 582 acres	
Waterton Colony	S9, T4, R28, 4W, S1/2	44	Dark brown/black		
Also available is:	SE 8-4-28 W4	140 acres	black	140 acres	
	NE 5-4-28	100 acres		100 acres	
	NE 4-4-28	80 acres		80 acres	
Total				1152 acres dark brown	

* If you are **not** the registered landowner, you must attach copies of land use agreements signed by all landowners. The soils in this area are orthic black chernozems

** 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)

Also available are: SE 5-4-28: 100 acres; SW 4-4-28: 70 acres, NE 32-3-28: 80 acres

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MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): google earth

Margin of error (if applicable): +/- 2 m

Requirements (m): Category 1: 637 m Category 2: 849 m Category 3: 1061 m Category 4: 1698 m

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: 1117.3 acres black

Land base listed: 1152 acres black

Area not suitable: already subtracted

Available area 1152 acres

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 LA06005

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NRCB USE ONLY

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

March 7, 2024	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: March 27, 2024

Municipality: MD of Pincher Creek

letter sent response received written/email verbal no comments received

Alberta Health Services: NA

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:

letter sent response received written/email verbal no comments received

Other: Cardston County N/A

letter sent response received written/email verbal no comments received

Other: Chief Mountain Gas Coop, Fortis AB Ltd., Alberta Wind Energy Corp. N/A

letter sent response received written/email verbal no comments received

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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. attached solid manure storage**
2. chicken layer barn

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.	21	11	0	9 mth
2.	76 m	21 m	0	
TOTAL CAPACITY				Has potential to store 9 mth

AO comment: Manure can either be stored within the manure storage or off site at short term manure storages

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

Manure storage will be above grade, attached to the new barn. (All manure will be dry). Barn and storage area will be built on higher grade than surrounding ground to create a natural berm or high grade.

Liner protection

Describe how the physical integrity of the liner will be maintained

Storage area will be concrete walls and floor.
 MPA specifications can be provided 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 6 to 8 inches	Method of sulphate protection: Type 50 acid resistant with fly ash powder used
Concrete strength 28 to 30 MPA	Concrete reinforcement size and spacing 5/8 re-bar. 20" O.C.

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: between 3-4 m below ground (*) Requirements met: YES NO

Depth to Uppermost groundwater resource: > 12 m below ground Requirements met: YES NO

ERST completed: see ERST page for details

(*) The water table was determined in Authorization LA06005 in proximity of the proposed layer barn

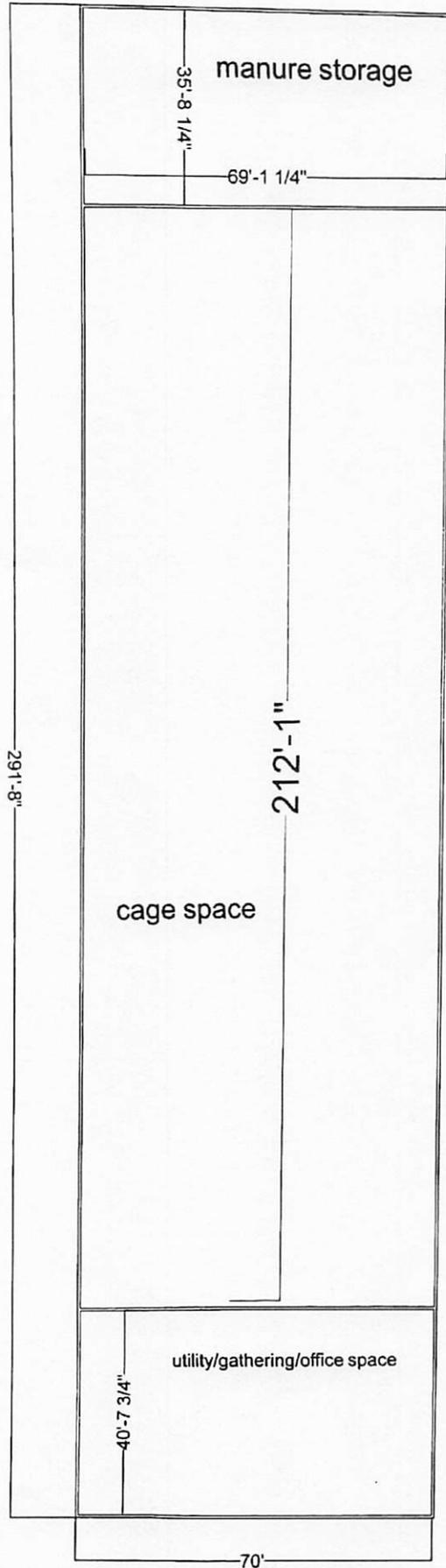
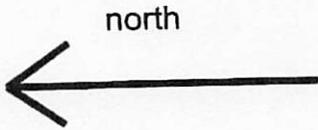
Surface water control systems

Requirements met: YES NO Details/comments: **The facility is entirely under roof. No runoff expected**

Concrete liner details

According to Agdex 096-93, minimum required concrete strength is 25 MPa at 28 days - Category D). Condition will be included

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



new chicken barn preliminary plan