

# Technical Document LA25047

## 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)

<b>NRCB USE ONLY</b>	Application number	Legal land description
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	<u>LA25047</u>	<u>W½ 15-19-17 W4M</u>

### 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.

Date of signing

[Redacted]

H B of LATHOM

Corporate name (if applicable)

Signature

[Redacted]

JACOB WURZ

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)
Manure Storage	As per email (June 20, 2025) The dimensions are 40' x 32' (12.2m x 9.8m)
The manure storage will be attached to the layer barn. Lathom Colony also proposed the construction of an attached office and egg sorting/collection area. See Decision Summary LA25047 for details.	

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
SEE LAST PERMIT		

**NRCB USE ONLY**

All facilities confirmed. No other construction

Approval LA16015	<ul style="list-style-type: none"> <li>Remodeling of existing swine nursery barn into a hog feeder barn (34 m x 67 m)</li> </ul>
Approval LA14002	<ul style="list-style-type: none"> <li>Chicken layer barn (76 m x 47 1 m) with attached pullet barn and attached solid manure storage (12.2 m x 15.2 m)</li> </ul>
Grandfathered	<ul style="list-style-type: none"> <li>Dairy barn with calf shelter (37.7 m x 11 m), heifer pens (with shelter) (61 m x 53 m), and 5 dry cow pens (140 m x 65 m)</li> <li>Hog barn (124 m x 33 m) with a two cell earthen liquid manure storage (80 m x 97 m x 4.8 m deep and 60 m x 80 m x 4.8 m deep)</li> <li>Mixed poultry barn (34 m x 22 m)</li> </ul>

Also permitted in Approval LA18049: Chicken pullet barn: 15.2 m x 91.4 m

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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 Dec 2026

### 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																																
<table> <tr> <th>Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)</th><th>Permitted number</th><th>Proposed increase or decrease in number (if applicable)</th><th>Total</th></tr> <tr> <td>100 dairy</td><td>100</td><td></td><td>100</td></tr> <tr> <td>6000 feeder pigs</td><td>6000</td><td></td><td>6000</td></tr> <tr> <td>35000 layers</td><td>35000</td><td>20,000 Increase</td><td>55,000</td></tr> <tr> <td>35000 pullets</td><td>35000</td><td></td><td>35000</td></tr> <tr> <td>2000 broilers</td><td>2000</td><td></td><td>2000</td></tr> <tr> <td>1600 Ducks</td><td>1600</td><td></td><td>1600</td></tr> <tr> <td>300 geese</td><td>300</td><td></td><td>300</td></tr> </table>	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	100 dairy	100		100	6000 feeder pigs	6000		6000	35000 layers	35000	20,000 Increase	55,000	35000 pullets	35000		35000	2000 broilers	2000		2000	1600 Ducks	1600		1600	300 geese	300		300			
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																																
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# Untitled Map

Write a description for your map.

## Legend

 Lathom Colony School





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### NRCB USE ONLY

#### WATER WELL AND SURFACE WATER INFORMATION

Well IDs: No wells within 400 m of the CFO

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

See Decision Summary LA25047 for detail

Facility	Groundwater score	Surface water score	File number

ERST for existing facilities

All facilities were reassessed. No change in risk. All facilities pose a low risk to groundwater and surface water

Facility	Groundwater score	Surface water score	File number

ERST related comments:

## 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: Lagoon

Proposed 1: MANURE STORAGE NEW

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 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	confirmed
	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	confirmed
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	3 miles	3 miles			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	confirmed
Groundwater information	What is the depth to the water table?		>10m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	> 10 m below construction zone
	What is the depth to the groundwater resource/aquifer you draw water from?	NO WELLS	NO WELLS			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	no UGR identified in this area

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

## Part 2 – Technical Requirements

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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 \_\_\_\_\_

Signed this June day of 6, 2025.

\_\_\_\_\_  
Signature of Applicant or Agent

copy of  
documents on  
file



## Part 2 — Technical Requirements

### **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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### 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
S&AS FARMS	SN3-20-17-W4	1 mi N	AG	1	>3 km		

### 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)

\* If you are **not** the registered landowner, you must attach copies of land use agreement

\*\* Available manure spreading area (excluding setback areas from residences, common law easements, etc.)  
[Regulations](#)

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

**Additional information (attach any additional information as required)**

Manure spreading lands:  
Sections 22/23/24-19-17-W4M  
Also available is section 14-19-17  
=> 1940 acres brown / dry

096-5 [Manure Spreading](#)

Total:  
2240 acres dry brown  
280 acres irrigated

AO comment: E1/2 22-19-17 is irrigated

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### NRCB USE ONLY

#### MINIMUM DISTANCE SEPARATION

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

Margin of error (if applicable): \_\_\_\_\_

Requirements (m): Category 1: 807 m Category 2: 1076 m Category 3: 1345 m Category 4: 2151 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: 2488 acres dry brown

Land base listed: 2240 acres dry brown and 280 acres irrigated (equals 2800 acres dry brown)

Area not suitable: 40 acres dry

Available area: > 2488 acres dry brown

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 LA14002



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### NRCB USE ONLY

#### ALL SIGNATURES IN FILE

☒ YES ☐ NO

#### DATES OF APPROVAL OFFICER SITE VISITS

June 10, 2025	

#### CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: July 2, 2025

Municipality: Newell County

☒ 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: ☒ N/A

☐ letter sent ☐ response received ☐ written/email ☐ verbal ☐ no comments received

Other: EID, Alta Link Management, Pioneer Gas Coop Ltd. Torxen Energy ☐ N/A

☒ letter sent ☐ response received ☐ written/email ☐ verbal ☒ no comments received

(EID = Eastern Irrigation District)

Other: \_\_\_\_\_ ☐ N/A

☐ letter sent ☐ response received ☐ written/email ☐ verbal ☐ no comments received

## Part 2 — Technical Requirements

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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. Manure storage  
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 <sup>3</sup> )
1.				
2.				
TOTAL CAPACITY				9 mth storage available

40' x 32'  
(12.2 m x 9.8 m)  
at grade level

☒ I plan to use a short-term storage facility as part of my manure storage and handling plan for this CFO. The AOPA requirements for STMS are outlined in the [Solid Manure Storage Requirements Fact Sheet](#).

#### Surface water control systems

Describe the run-on and runoff control system

on the roof  
(under roof)

#### 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>6 inches</i>	Method of sulphate protection: <i>type 50</i>
Concrete strength <i>28 MPa</i>	Concrete reinforcement size and spacing <i>10mm Rebar 16" Gut</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: *> 10 m below ground level* Requirements met: ☒ YES ☐ NO  
Depth to Uppermost groundwater resource: *No UGR in area* Requirements met: ☒ YES ☐ NO  
ERST completed: ☒ see ERST page for details

#### Surface water control systems

Requirements met: ☒ YES ☐ NO Details/comments:

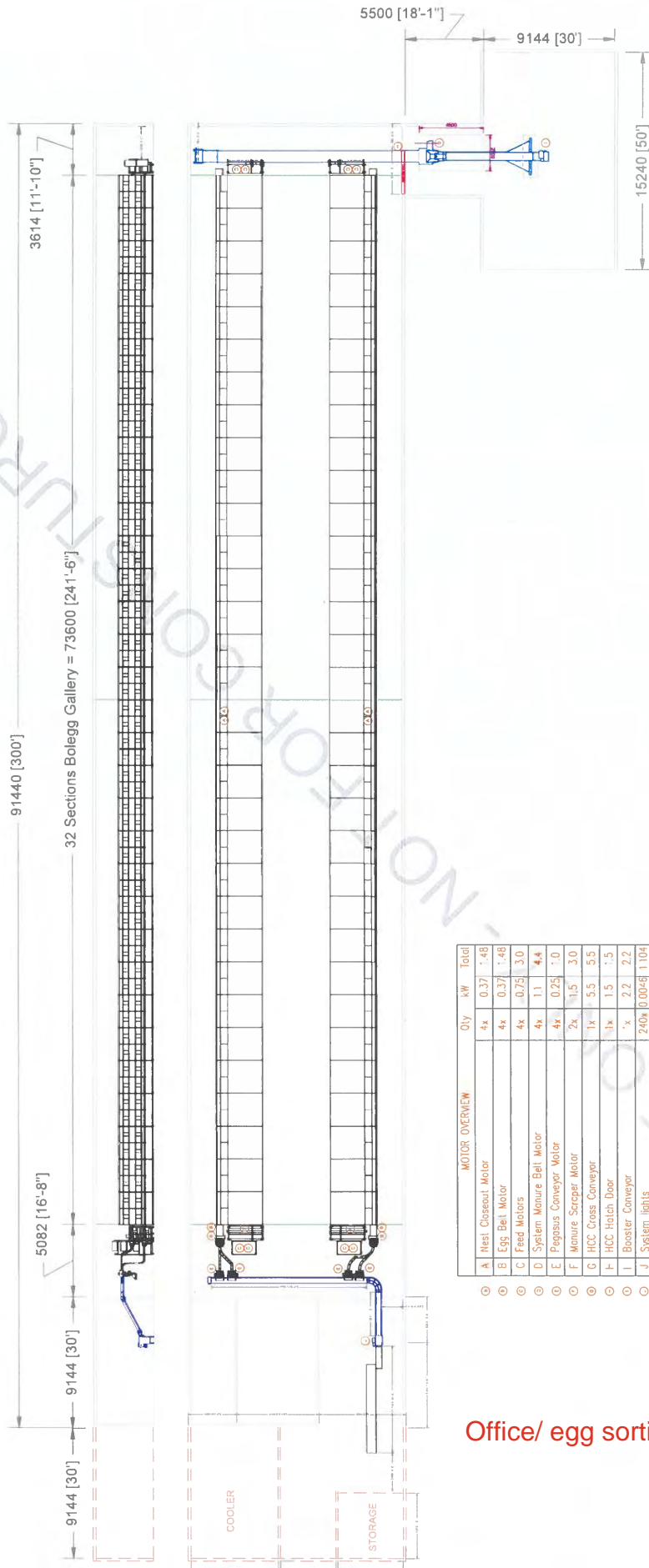
#### Concrete liner details

*Proof that concrete specs have been met is required*

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



CONCEPT - NOT FOR CONSTRUCTION



MOTOR OVERVIEW				
	Qty	kW	Total	
A Nest Closeout Motor	4x	0.37	1.48	
B Egg Belt Motor	4x	0.37	1.48	
C Feed Motors	4x	0.75	3.0	
D System Manure Belt Motor	4x	1.1	4.4	
E Pegagus Conveyor Motor	4x	0.25	1.0	
F Manure Scraper Motor	2x	1.5	3.0	
G HCC Cross Conveyor	1x	5.5	5.5	
H HCC Hatch Door	1x	1.5	1.5	
I Booster Conveyor	1x	2.2	2.2	
J System lights	240x	0.0046	1.104	
K Vercobell Motor	2x	0.55	1.1	
			Total 25.764	

New manure storage area

Office/ egg sorting/storage