

Construction Costs for a 1600 Head Hog Farrow Wean Facility with Electronic Sow Feeding in Manitoba & Saskatchewan

Prepared for: Manitoba Pork Council & Sask Pork

Prepared by:

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Layout Design Assistance:

**New Standard Ag Inc.
Kevin Kurbis**

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Introduction

At the request of the Manitoba Pork Council & Sask Pork, DGH Engineering Ltd. has prepared a detailed budget estimate to construct a new hog farrow wean facility in today's market conditions. A typical 1,600 Head Farrow Barn was designed in co-operation with Kevin Kurbis of New Standard Ag Inc. as a model (see drawing, Appendix A). The facility would house dry sows in three large group pens with electronic feeders in lots of 324 sows. A gilt receiving and isolation room is provided for incoming replacement stock. A breeding room would house 180 females in typical dry sow crates with trough feeding. After breeding and prior to introduction into the group housing, new gilts would be housed in an electronic sow feeding training room. Gilts are housed in a group of 232 after training. The farrow area is divided into 10 rooms of 40 6'x8' Farrowing Crates. A load-out room with pens is provided for outgoing weaners. Staff services and building mechanical/electrical would be facilitated in an area in the centre of the barn between the farrowing section and the dry sow/breeding section. Waste collection would be facilitated through slats above 2' deep manure collection pits drained by underground sewer pipe to a lift station and a two cell HDPE lined earthen manure storage. Feed distribution is provided by typical flex auger system connected to 6 exterior feed bins. All walls in the building are nominally 10' high with the first four feet being concrete and the balance being wood stud clad with painted OSB. Exterior building cladding is 29 gauge pre-painted galvanized steel.

Revisions Made For September 2023

All unit prices were updated to reflect current industry costs.

Methodology

A detailed estimate was prepared presenting all building components along with associated costs organized according to the NMS Masterformat standard numbering system. The detailed budget for Manitoba is presented in Appendix B. The detailed budget for Saskatchewan is presented in Appendix C. The budget is based on the building's design and construction conforming to the 2010 Manitoba Farm Building Code (Note in Saskatchewan, while Farm Buildings are exempt from the Construction Codes Act, local authorities may require farm buildings to comply with certain construction standards through local building bylaws). All unit prices are based on current typical market costs and adjusted where necessary to reflect the differences in labour rates for an agricultural building vs typical commercial building labour costs. A detailed commentary organised according to the NMS divisions follows.

Differences Between Manitoba and Saskatchewan Pricing

For the most part, all building materials and labour costs are for all intents and purposes at the budgetary stage the same, outside of a small variation in concrete costs. The only other major difference is in the Provincial Sales Tax Applicable in each of the provinces. This is due to both a difference in the base PST percentage rate, and more significantly a difference in what items are taxable and what items are exempt in the respective provincial sales tax acts.

Division 1 – General Requirements

General Requirements include cost allowances for engineering design fees, permits, course of construction insurance, overhead and administration of the project, site survey and layout as well

as miscellaneous temporary facilities (equipment rentals, construction consumables, sanitary facilities, first aid supplies, etc.)

Note that permits, insurance and overhead & administration are based on percentage values of the overall budget.

Division 3 – Concrete

Concrete includes all costs associated with forming supplies, labour to form, place and pour concrete, reinforcing steel, concrete delivered to site, and precast concrete slats.

Concrete Formwork Labour unit cost rates provided are 60% of the typical unit rate for commercial construction.

Concrete reinforcing steel unit cost rates is based on current market rates for steel bars based on a detailed material take-off.

Concrete unit cost rates are based on the current market cost per yard allowing for typical discounts provided for large quantity orders in high volume pours.

Concrete slat unit cost rates are based on the current market price for slats allowing for typical discounts on single bulk orders.

Division 5 – Structural Steel

Structural steel consists of steel columns to support a girder truss over the open dry sow room as well as a cash allowance for miscellaneous steel fabrications which may be required during the course of construction.

Division 6 – Woods and Plastics

Woods and plastics contains all components for the framing of the building shell, including pre-fabricated wood trusses, exterior foundation cladding in pressure treated plywood, and interior wall and ceiling cladding in OSB. Also included are 22 attic smoke stops constructed from 3/8" OSB.

All dimensional lumber and sheathing unit costs are based on current market rates in the construction industry taking into account bulk construction package purchasing.

Pre-fabricated wood truss unit cost is based on listed market rate and recent comparable barns built in 2023.

All Labour unit costs are based on 90% of current commercial rates for construction labour.

Division 7 – Thermal & Moisture Protection

Thermal and moisture protection contain all components for provision of building envelope insulation, vapour barriers, acoustical sealants, and 29 gauge pre-painted galvanized exterior metal cladding complete with associated trims and fasteners.

Insulation and metal cladding material unit costs are based on current market rates for agricultural construction.

Insulating labour unit costs are based on standard construction rates. There is no significant difference in terms of labour cost savings in an agricultural vs commercial project for insulation.

Metal cladding installation unit costs are based on 65% of typical commercial construction rates to reflect economies of construction due to simplicity and large surface areas of typical hog facility building layouts.

Division 8 – Doors & Windows

Doors & windows include all pre-fabricated and site built doors, including overhead load-out door and associated door hardware. All unit costs are based on typical construction rates.

Division 9 – Finishes

Finishes includes suspended ceiling and drywall in the staff/service areas, as well as painting of the OSB wall and ceiling cladding through-out the facility. All unit costs based on current typical market rates.

Division 10 – Specialities

Fire protection specialties provided for in the estimate are limited to 22 fire extinguishers only.

Note that depending on local municipal firefighting infrastructure, an additional firefighting water holding pond may need to be constructed.

Division 11 – Equipment

The following animal equipment is included in the budget estimate:

Animal Penning:

Animal penning is provided as per plan layout. Building walls in the penning area will be 4' of concrete above the slatted floor. Pen walls and dividers in dry sow areas are constructed of 2" thick PVC panels, 38" high, supported by stainless steel posts and wall straps. Gilt Stalls in the breeding area are constructed from black steel. Farrow crates are galvanized steel with PVC creep planks.

Animal Heating and Ventilation:

All exhaust and recirculation fans are provided including associated hardware (hoods and backdraft dampers, winter closures for stage 3/stage 4 fans).

All ceiling air inlets are included complete with actuators and all connecting hardware, pulleys, and manual hand winches.

Gas unit heaters are to be installed for supplementary winter heating.

Environmental controllers, temperature probes, back-up thermostats and manual fan controls are included in the equipment package.

Watering System

All components to construct a complete watering system are provided including:

Water Meter

1 ½" Main water supply lines with ¾" branch lines, PVC Schedule 40.

1 ½" High Volume wash drops in each of the farrow rooms and in the load out area, two high volume drops in the sow training and breeding rooms, and six in the dry sow room. All high volume drops include quick connect camlock coupler for attachment of wash down fire hose.

Four 75' high volume wash down hoses with connectors and adjustable nozzle.

¾" supply lines with ¼" hose drops to nipple drinkers with room shut off ball-valves, as well as isolation shut off ball-valves at each drinker connecting drop. Note isolation valves for drinkers are PVC schedule 40 ball valves, not nylon valves, for leak free operation. For group areas, double drinkers are provided as follows : Isolation Room Pens : 1 per pen, Gilt Pretraining : 4, Gilt Training : 16, Dry Sow : 72 (24 per pen)

Separate sow dripper lines for animal cooling in farrow rooms complete with electronic solenoid valve for room activation and manual cooling bypass. Solenoid valve has unions and shut-off valves at either end to facilitate easy replacement without interruption of water service.

Clamps, screws, fittings, glue, primer, unions & shut-off valves for maintenance isolation, Teflon tape and all materials required for a complete installation are. all included.

High Pressure Water system

All components are provided for a functional high pressure barn wash system serviced by a centrally located 10 HP high pressure washer including:

¾" Main line with ½" branch lines to supply high pressure water throughout facility. All pipe and fittings Galvanized Steel Pipe, Schedule 80.

One high pressure wash drop on each end of farrow rooms, isolation room, and the load-out area each complete with high pressure drop hose and shut off valve.

Two high pressure wash drops on each end of breeding and gilt training rooms, each complete with high pressure drop hose and shut off valve.

Nine high pressure wash drops distributed through-out the dry sow room, each complete with high pressure drop hose and shut off valve.

150' Pressure wash hose with wand.

Feed System

All components to construct a complete automated feed delivery system (flex auger type).

Feed Storage (Approx. 7 days storage) :

Farrow Rooms : 2x 22.64 Tonne Feed Bins

Dry Sow : 28.7 Tonne Feed Bin

Sow Training : 5.2 Tonne Feed Bin

Breeding : 5.2 Tonne Feed Bin

Gilt Receiving/Isolation : 1.4 Tonne Feed Bin

Lift Station

Complete concrete lift station including:

5' diameter concrete well cribbing

10HP submersible pump including controls, motor starter, floats, etc.

Stainless steel guide rails and 2,000 lb winch

Sewer Pipe

Complete under floor sewer package for typical under slab IPEX ultra-rib system with rubber pit plugs

Miscellaneous Components

Agri-Alert Alarm system

Load out Ramp

Weigh Scale for single animals.

Heat Lamps and Pads in Farrowing Rooms

All animal equipment components are based on current market list prices with a 15% discount applied to represent a typical "package price" reduction when purchasing a complete animal equipment package for construction of a new barn.

Division 15 – Mechanical

Process Piping - Installation of 1" Schedule 40 Steel Pipe in facility to supply propane or natural gas to in room animal unit heaters. Unit costs are based on 85% of typical commercial rates to account for simplicity of surface mounted agricultural gas line layout.

Plumbing Fixtures – Plumbing fixtures for staff are based on “Assemblies” costs which include the fixtures themselves as well as associated supply, waste and vent piping. Assembly unit costs are 85% of typical commercial rates to reflect simplicity of agricultural staff service layouts.

Heat Generating Equipment - Assembly cost for provision of hot water tank to supply domestic hot water requirements as well as floor heat. Unit cost is 85% of commercial rate.

HVAC – HVAC includes air make-up unit and associated ducting, washroom exhaust fan, and components for in office floor heating system. All materials and labour unit costs are based on current rates.

Division 16 – Electrical

Building electrical is based on a “per square foot cost allowance” for typical barns constructed in Manitoba.

Division 31 – Earthworks

Barn pad – estimate includes the following items:

Stripping and stockpiling on-site of all topsoil and excavation to 2’ below finished elevation of all floors and pits.

Backfilling of 24” of granular material beneath the entire building footprint.

Trenching and backfilling of all sewer piping below the building including sand bedding around the pipes.

Backfilling three feet around the perimeter of the building and sloping away from the foundation walls for drainage.

Roads and Parking – Requirements will vary depending on site conditions and location of barns. Costs provided are based on typical site works required. Assumptions allow for a ring road around the perimeter of the facility, a 30’ x 48’ gravel parking area, and a 25’ wide entrance driveway 150’ long along with a drainage ditch. Costs include earthworks to complete the road, a stabilizing geo-grid over road surfaces, and 18” of compacted road gravel.

Earthen Manure Storage – Costs included are for all earthworks required to construct a 2-cell earthen manure storage with 500 days of storage complete with a High Density Polyethylene Liner for containment. Costs are also included for a 75’ run of sewer pipe connecting the EMS to the Manure Lift Station.

NOTE: No provision has been provided in the estimate for an odour control cover over the earthen manure storage. If a cover were to be required on a given site, the cost of a plastic cover is expected to be approximately \$240,000 supplied and installed.

Division 33 – Utilities

Costs for utilities connection will vary depending on site location, available utilities infrastructure, natural gas or propane, and municipal water or water table depth. Cost included for connection of gas, hydro, and water are cash allowances only for an estimated typical cost.

Contingency

A contingency equal to 5% of the total cost of the facility is included for incidentals, unique requirements, and unforeseen issues arising during the course of construction.

Cost Summary

Manitoba : The total estimated cost of the 1600 head farrow wean barn including all services, materials, equipment, labour, site development works and contingency is \$8,839,505.00. This total cost translates into \$116.58 per square foot or \$5,525/per pig place. Separating out site development, earth works, utilities and contingency the nominal construction cost of the facility is \$101.03 per square foot for \$4,788 per pig place. The project budget does not include any cost for land, considering that the project would be constructed on an existing farm.

Saskatchewan : The total estimated cost of the 1600 head farrow wean barn including all services, materials, equipment, labour, site development works and contingency is \$8,987,542.00. This total cost translates into \$118.53 per square foot or \$5617/per pig place. Separating out site development, earth works, utilities and contingency the nominal construction cost of the facility is \$102.95 per square foot for \$4879 per pig place. The project budget does not include any cost for land, considering that the project would be constructed on an existing farm.

OPTIONAL PRICES

The following items are not included in the base estimate for the barn and would be costs over and above the estimated price of construction:

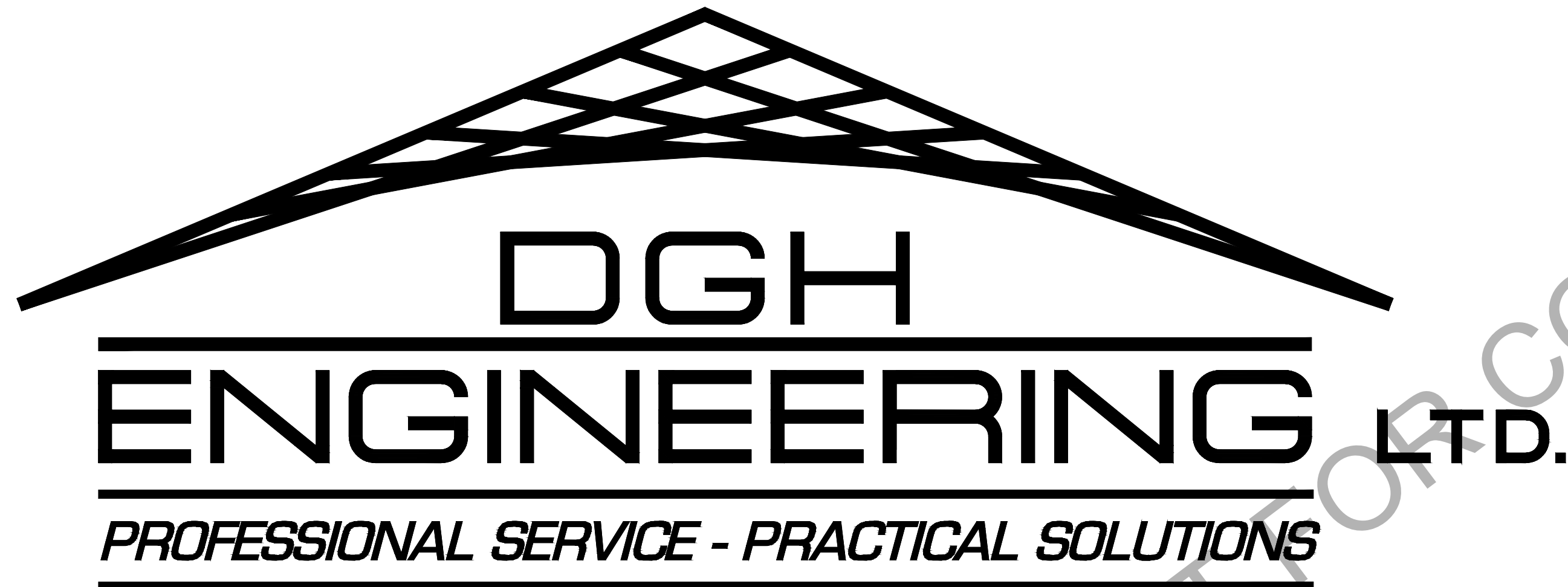
Add odour control cover to Earthen Manure Storage:
\$240,000

GENERAL ANNOTATION

ITEM	SYMBOL	REMARKS
ELEVATION CALLOUT		*A* DENOTES DETAIL No., *B* DENOTES DETAIL LOCATION
DETAIL CALLOUT		*A* DENOTES DETAIL No., *B* DENOTES DETAIL LOCATION
DETAIL CALLOUT, SECTION		*A* DENOTES DETAIL No., *B* DENOTES DETAIL LOCATION
WALL SECTION CALLOUT		*A* DENOTES DETAIL No., *B* DENOTES DETAIL LOCATION
BUILDING SECTION CALLOUT		*A* DENOTES DETAIL No., *B* DENOTES DETAIL LOCATION
ROOM NUMBER CALLOUT		
DOOR NUMBER CALLOUT		
WINDOW NUMBER CALLOUT		
REVISION NUMBER CALLOUT		

ABBREVIATIONS LEGEND

ARCH	ARCHITECTURAL	ID	INSIDE DIAMETER
B.U.	BUILT-UP	INT	INTERIOR
B.L.L.	BOTTOM LOWER LAYER	LG	LONG
B.U.L.	BOTTOM UPPER LAYER	LOC	LOCATION
BD	BOARD	MACH	MACHINE ROOM
BLDG	BUILDING	MAX	MAXIMUM
BLKG	BLOCKING	MFR	MANUFACTURER
BOT	BOTTOM	MID	MIDDLE
B/W	BOTH WAYS	min.	MINUTES (TIME)
BRG	BEARING	MIN	MINIMUM
C.L.	CENTERLINE	NIC	NOT IN CONTRACT
C/W	COMPLETE WITH	NO.	NUMBER
CANT	CANTILEVER	O/C	ON CENTRE
C.J.	CONTROL JOINT	OD	OUTSIDE DIAMETER
COL	COLUMN	PRE-ENG	PRE-ENGINEERED
COMP	COMPACTED	PREFIN	PREFINISHED
CONC	CONCRETE	PROJ	PROJECTION
CONST	CONSTRUCTION	PTD	PAINTED
CONT	CONTINUOUS	P.L.	PROPERTY LINE
CORR	CORRIDOR	RF	REFERENCE POINT
CWN	COMMON WIRE NAIL	R/W	REINFORCED WITH
DIA	DIAMETER	RWL	RAIN WATER LEADER
DIAG	DIAGONAL	REINF	REINFORCING
DS	DOWNSPOUT	REQD	REQUIRED
DTL	DETAIL	SCH	SCHEDULE
DP	DEEP	SECT	SECTION
DWG	DRAWING	SHTG	SHEATHING
E/F	EACH FACE	SIM	SIMILAR
E/S	EACH SIDE	SQFT	SQUARE FOOT
E/W	EACH WAY	SQM	SQUARE METER
EL	ELEVATION	STD	STANDARD
ELEV	ELEVATION	STOR	STORAGE
EQ	EQUIVALENT	STRL	STRUCTURAL
EXT	EXTERIOR	T.L.L.	TOP LOWER LEVEL
F/H	FULL HEIGHT	T.U.L.	TOP UPPER LEVEL
F/O	FACE OF	T&G	TONGUE & GROOVE
FD	FLOOR DRAIN	T&B	TOP & BOTTOM
FND	FOUNDATION	THKG	THICKENING
FLR	FLOOR	THRU	THROUGH
FTG	FOOTING	TJ	TIE JOIST
GALV	GALVANIZED	T/O	TOP OF
G.L.	GRID LINE	TYP	TYPICAL
H/C	HANDICAPPED	U/S	UNDERSIDE
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
hr.	HOUR (TIME)	VERT	VERTICAL
HT	HEIGHT	W/	WITH
INSUL	INSULATION	WP	WEATHERPROOF
		WR	WASHROOM



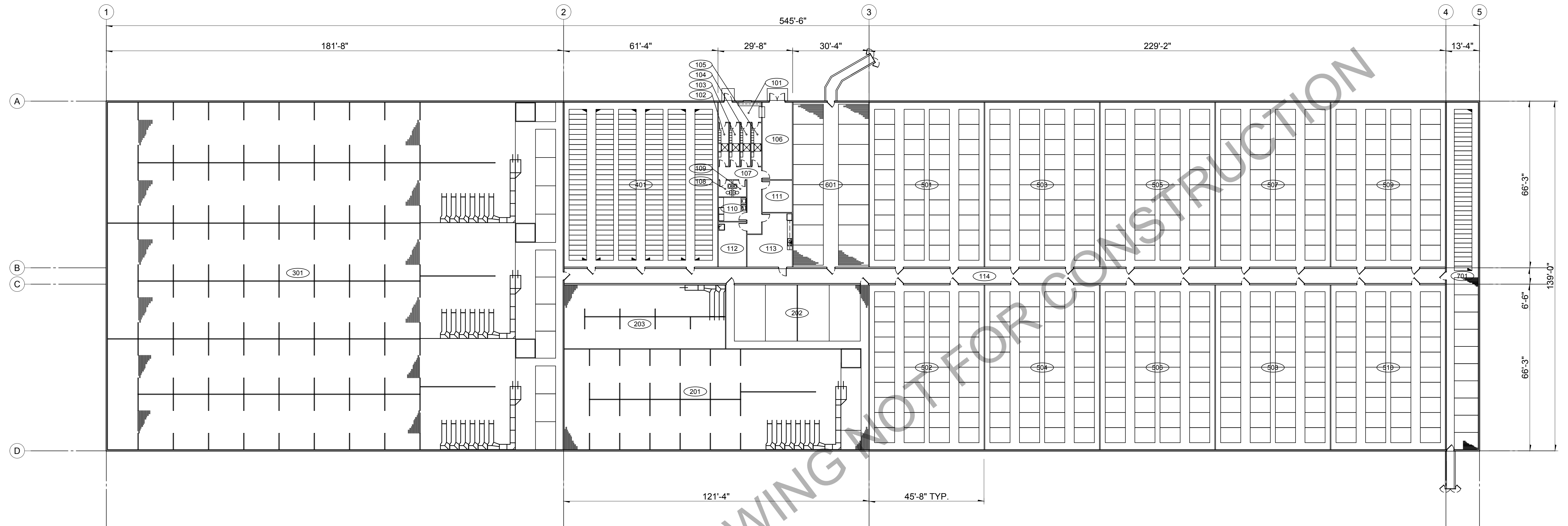
Sheet List Table

SHEET NUMBER	SHEET TITLE
B1	GROUND FLOOR PLAN - OVERALL
B1.1	GROUND FLOOR - PARTIALS
B1.2	GROUND FLOOR - PARTIALS
B1.3	GROUND FLOOR - PARTIALS
B2	WALL SECTIONS

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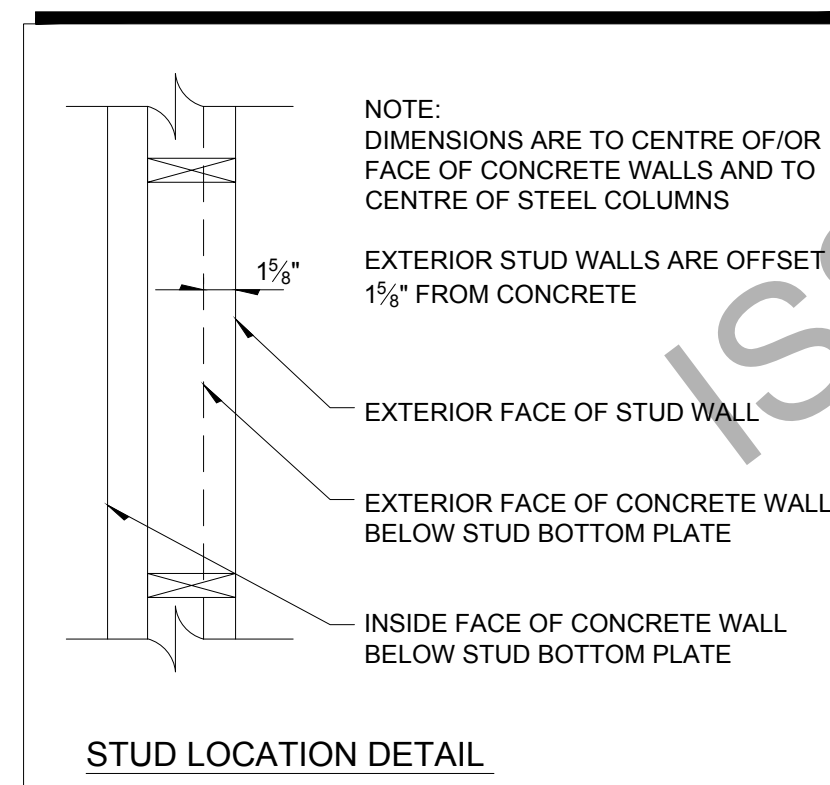
CLIENT: MANITOBA PORK COUNCIL . PROJECT: FALLOW TO WEAN BARN COMPLEX



PLAN VIEW - OVERALL

1" = 20'

ROOM No. SCHEDULE	
RM No.	ROOM NAME
OFFICE / UTILITY ROOMS	
100	OFFICE / UTILITY ROOMS
101	MAIN ENTRANCE
102	SHOWER ROOM #1
103	SHOWER ROOM #2
104	SHOWER ROOM #3
105	SHOWER ROOM #4
106	MECHANICAL ROOM
107	HALLWAY
108	WASHROOM #1
109	WASHROOM #2
110	LAUNDRY ROOM
111	MANAGER'S OFFICE
112	BOOT DROP
113	STAFF ROOM
114	HALLWAY
GILT ROOMS	
200	GILT ROOM #1
201	GILT ROOM #1
202	PRE-TRAINING ROOM #1
203	TRAINING ROOM #1
DRY SOW ROOMS	
300	DRY SOW ROOMS
301	ROOM #1
BREEDING ROOMS	
400	BREEDING ROOMS
401	ROOM #1
FARROW ROOMS	
500	FARROW ROOMS
501	FARROW ROOM #1
502	FARROW ROOM #2
503	FARROW ROOM #3
504	FARROW ROOM #4
505	FARROW ROOM #5
506	FARROW ROOM #6
507	FARROW ROOM #7
508	FARROW ROOM #8
509	FARROW ROOM #9
510	FARROW ROOM #10
LOADOUT / WEANER ROOMS	
600	LOADOUT / WEANER ROOMS
601	ROOM #1
GILT RECEIVING & ISOLATION	
700	GILT RECEIVING & ISOLATION
701	ROOM #1



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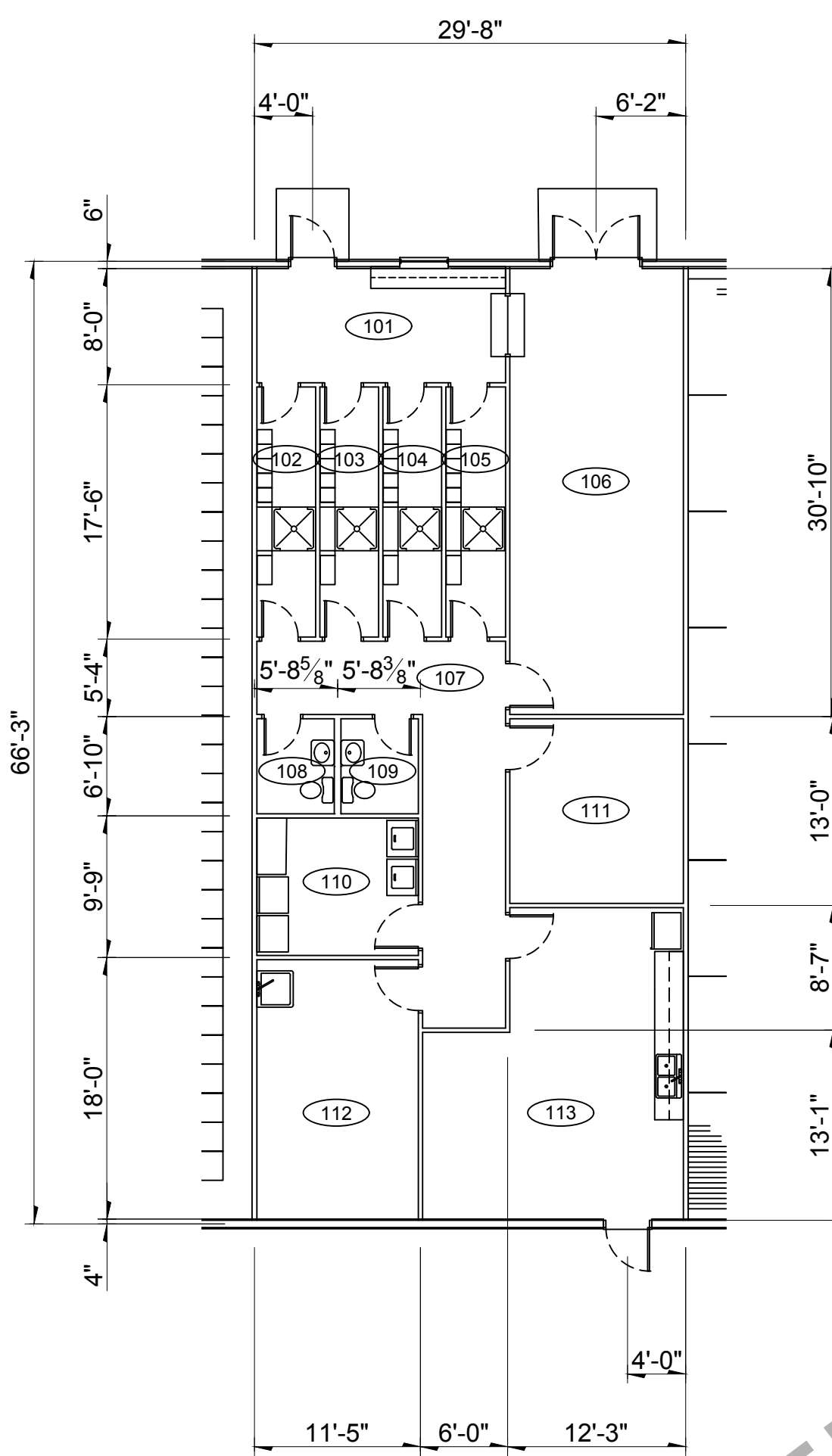
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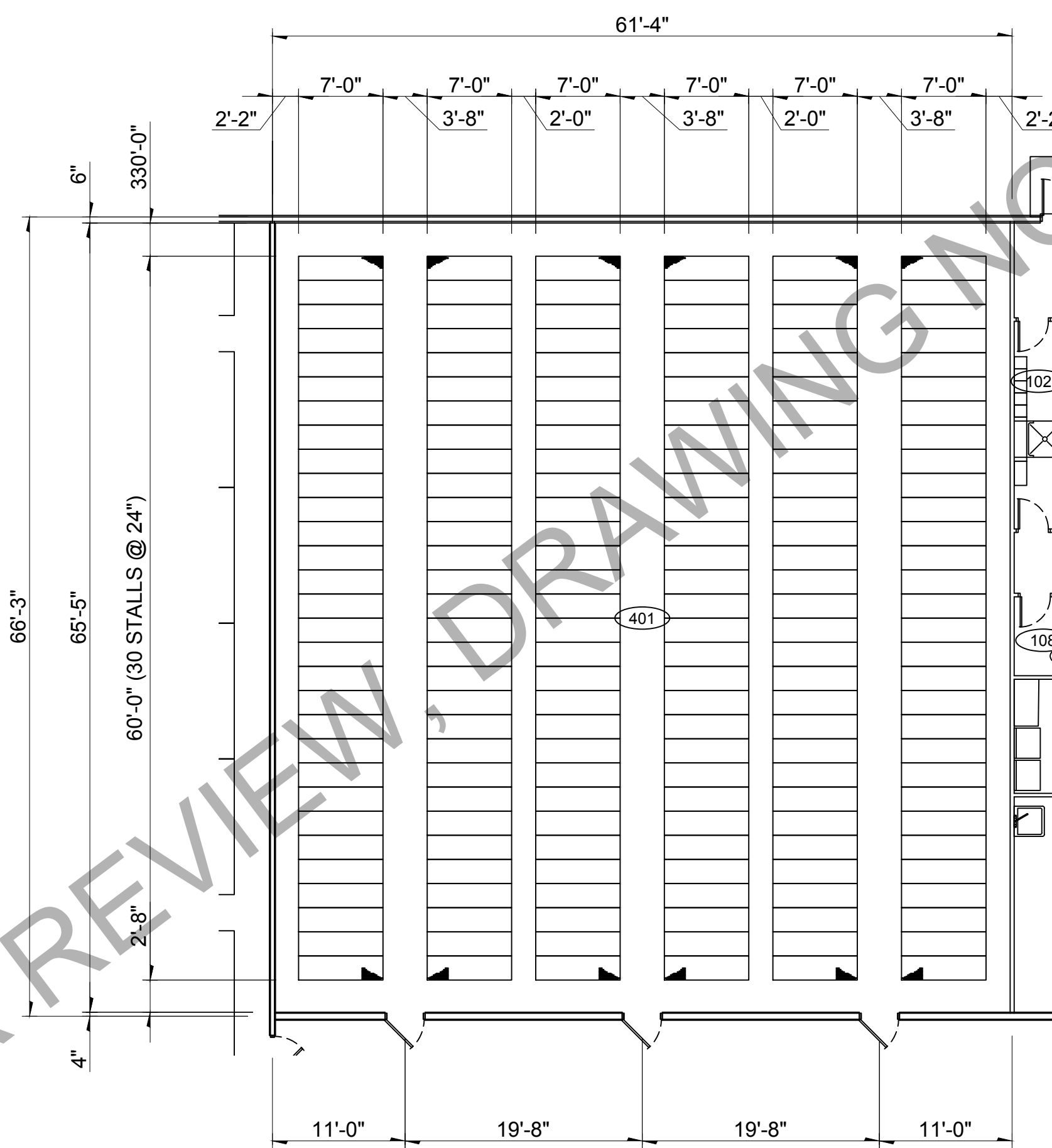
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DATE OCT./2016	SCALE AS NOTED	XREF PATH(S)

CLIENT MANITOBA PORK COUNCIL	PROJECT TITLE FARROW TO WEAN BARN COMPLEX
28 TERRACON PLACE WINNIPEG, MB R2J 4G7	PROJECT LOCATION
PROJECT NUMBER: 16-1-1306-005-30	1600 SOW BARN GROUND FLOOR PLAN - OVERALL
	B1 REV. 0 R00



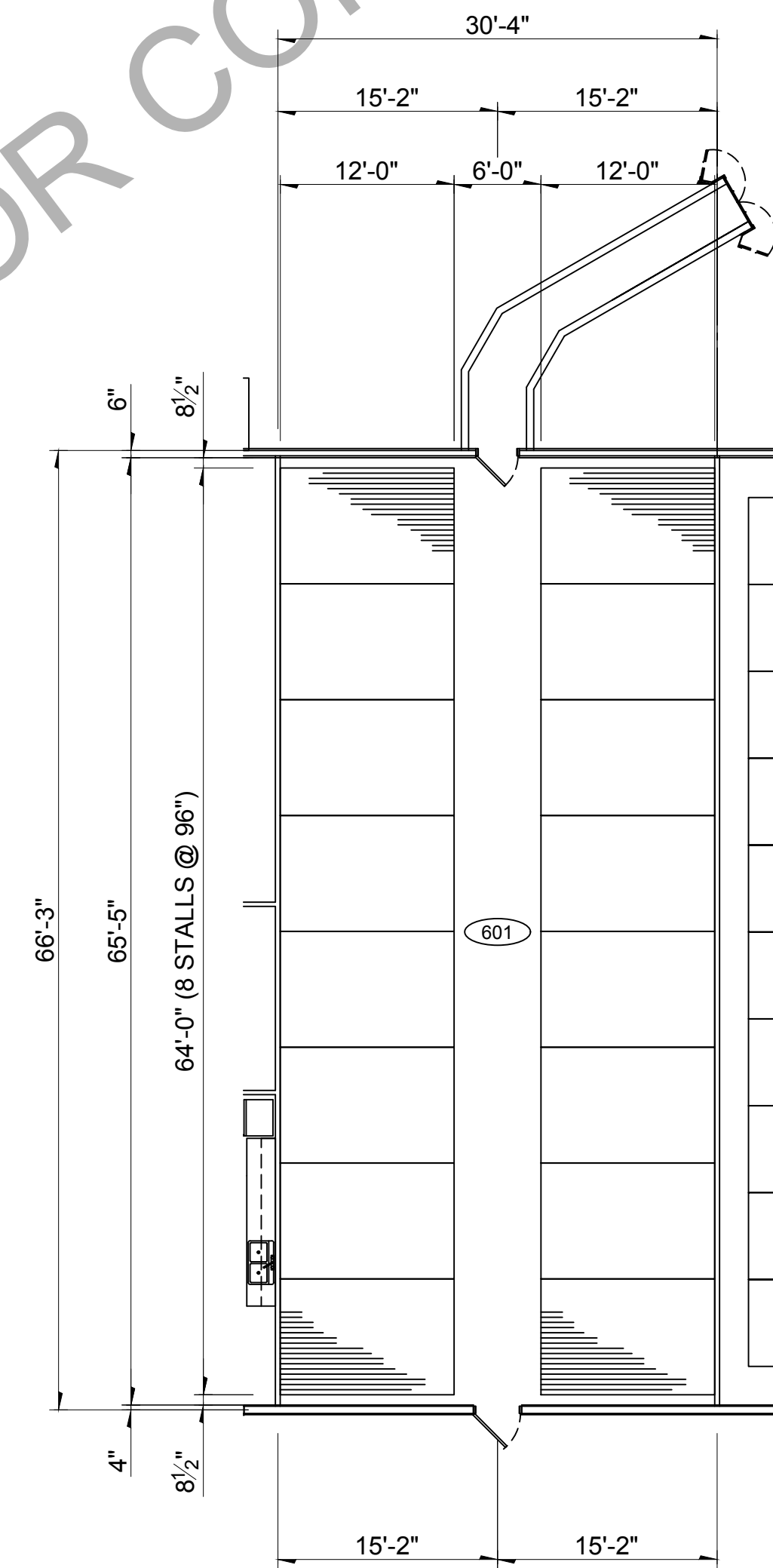
OFFICE / UTILITIES ROOMS

1" = 10'



BREEDING / CULLS ROOM

1" = 10'



LOADOUT / WEANER ROOMS

1" = 10'

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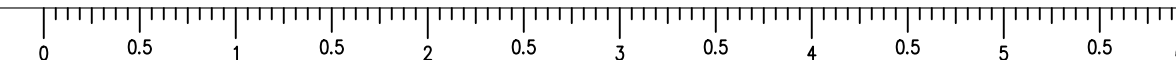
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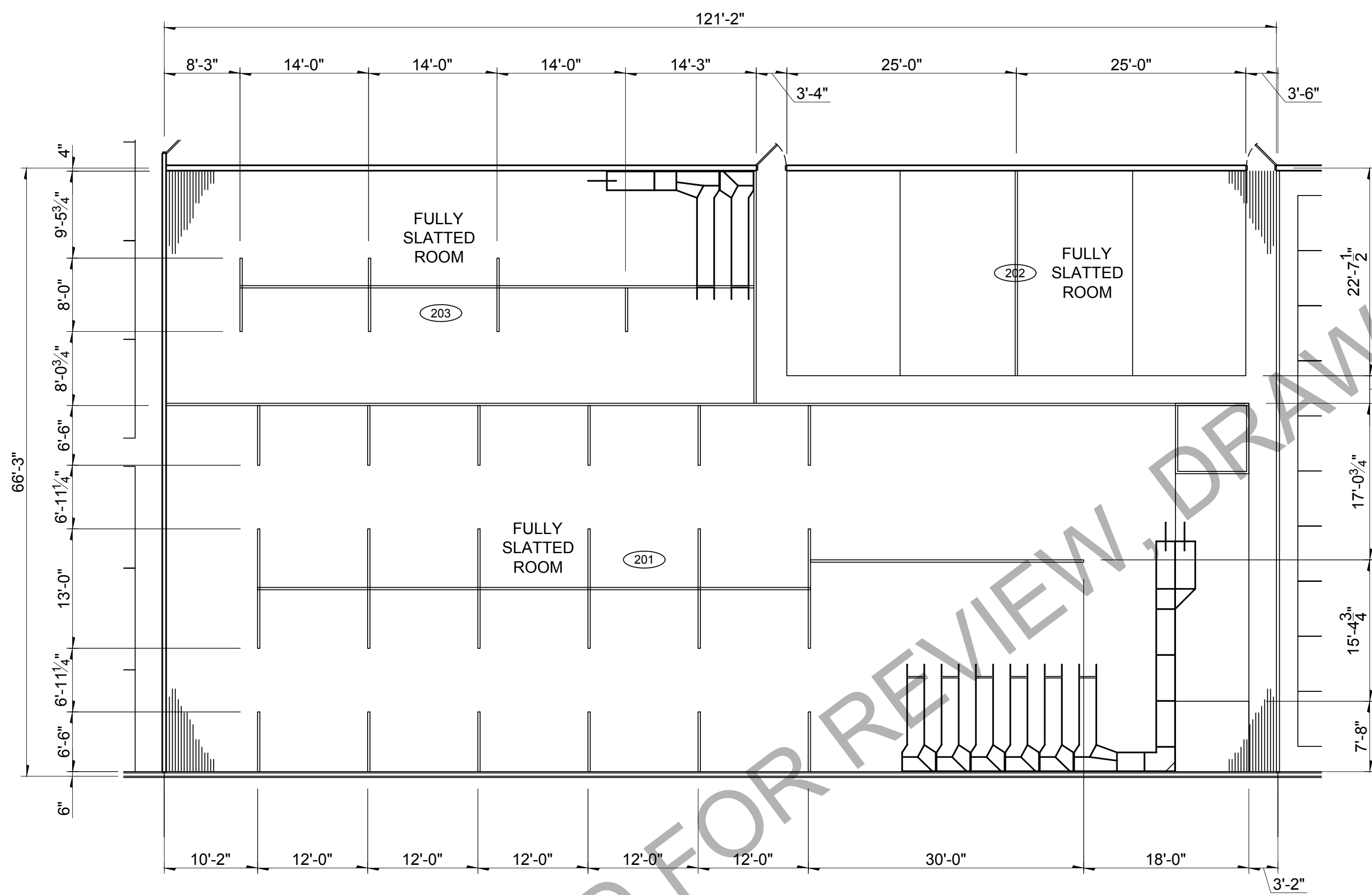
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28 TERRACON PLACE WINNIPEG, MB R2J 4G7		
DESIGNED RTD	DRAWN RTD	COORDINATOR DGH
DATE OCT./2016	SCALE AS NOTED	XREF PATH(S)

PROJECT TITLE FARROW TO WEAN BARN COMPLEX
PROJECT LOCATION
PROJECT NUMBER: 16-1-1306-005-30
1600 SOW BARN GROUND FLOOR - PARTIALS

B1.1
REV. 0 R00

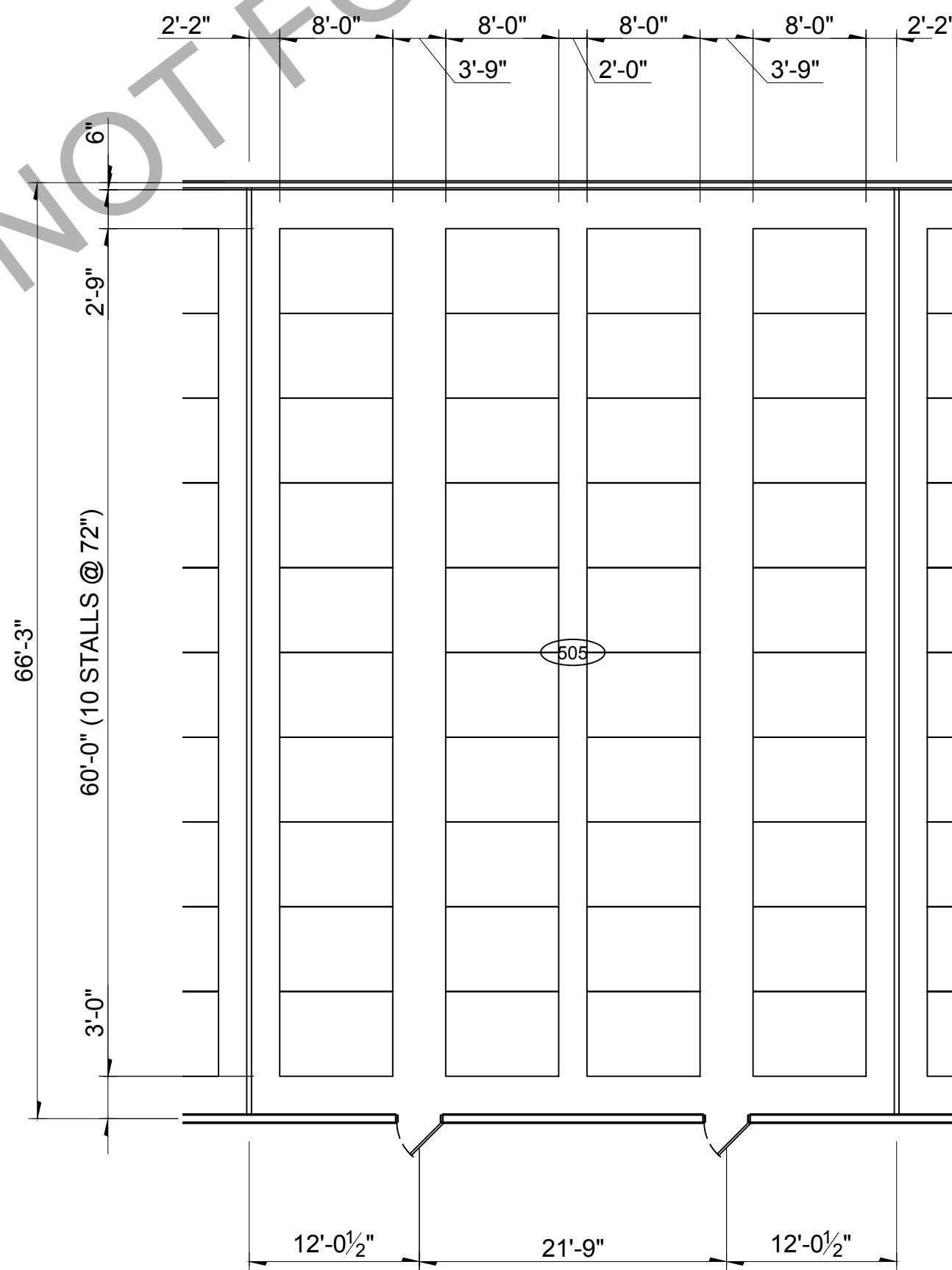


6inch
0 0.5 1 2 3 4 5 6



TRAINING ROOMS

1" = 10'



FARROWING ROOMS (TYP. OF 10)

1" = 10'

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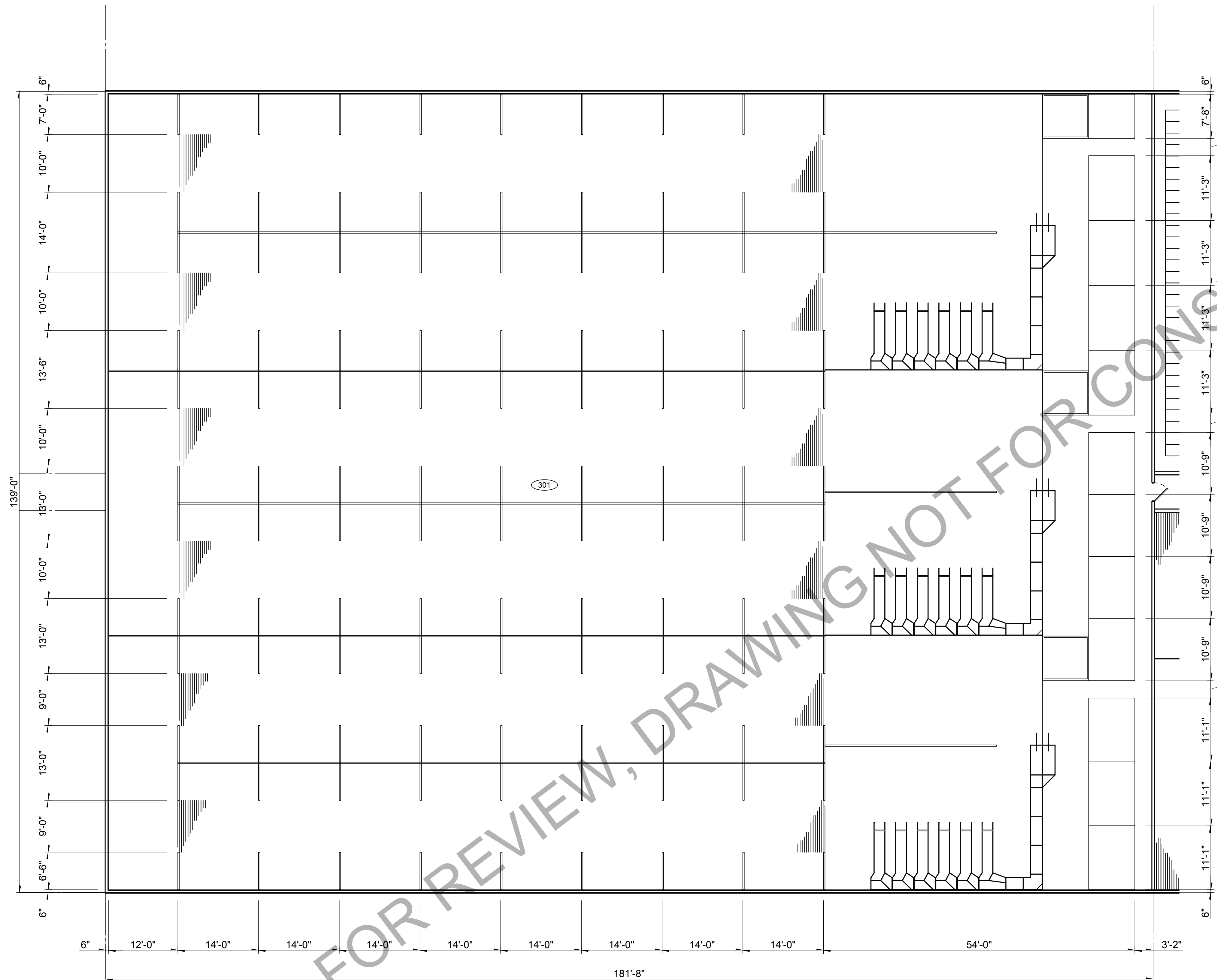
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CLIENT MANITOBA PORK COUNCIL		
PROJECT TITLE FARROW TO WEAN BARN COMPLEX		
PROJECT LOCATION 28 TERRACON PLACE WINNIPEG, MB R2J 4G7		
PROJECT NUMBER: 16-1-1306-005-30		
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DATE OCT./2016	SCALE AS NOTED	XREF PATH(S)

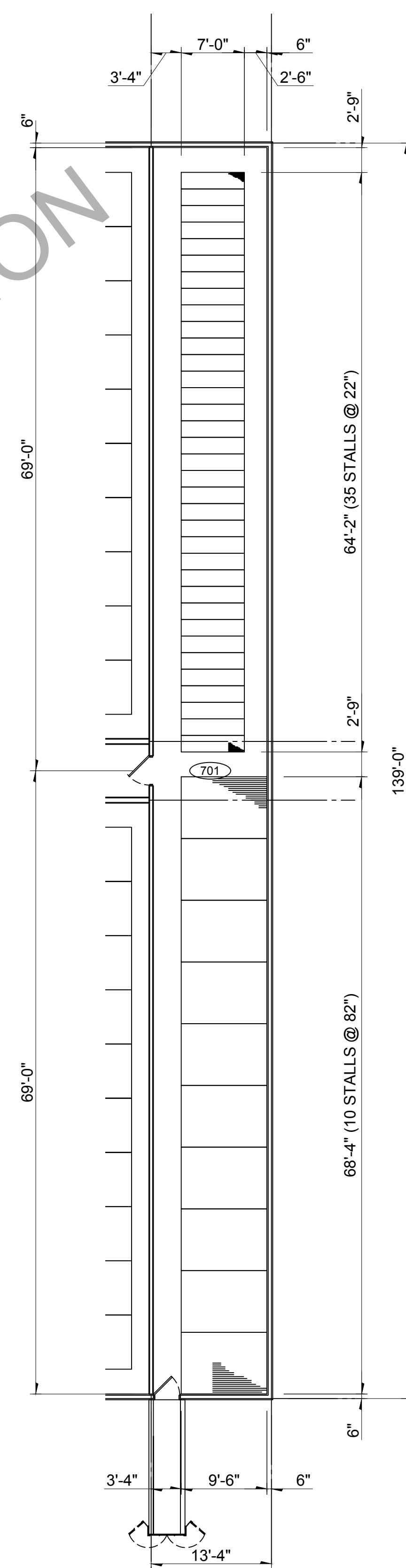
1600 SOW BARN GROUND FLOOR - PARTIALS	B1.2 REV. 0 R00
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0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6inch



DRY SOW ROOM

1" = 10'



GILT RECEIVING & ISOLATION ROOM

1" = 10'

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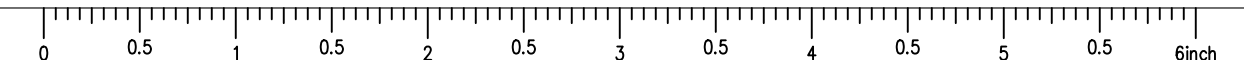
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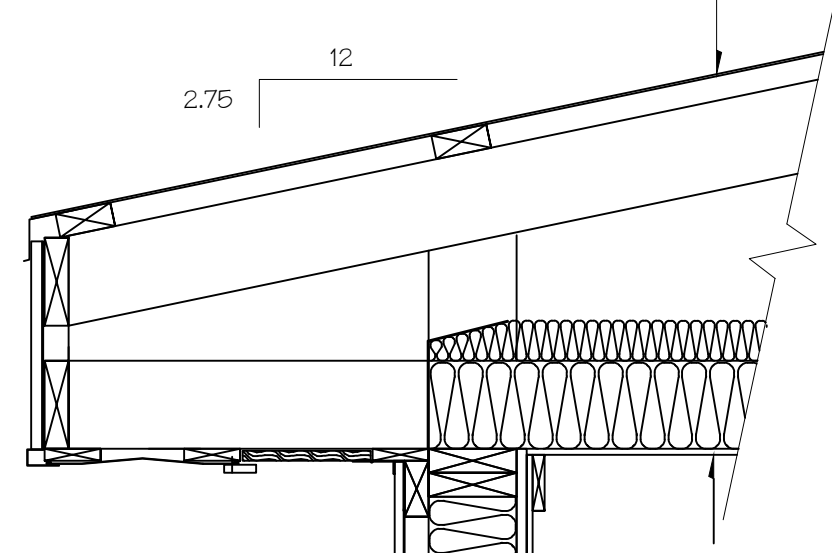
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CLIENT MANITOBA PORK COUNCIL			PROJECT TITLE FARROW TO WEAN BARN COMPLEX		
28 TERRACON PLACE WINNIPEG, MB R2J 4G7			PROJECT LOCATION		
DESIGNED RTD			DRAWN RTD		
DATE OCT./2016			COORDINATOR DGH		
SCALE AS NOTED			X/REF PATH(S)		
PROJECT NUMBER: 16-1-1306-005-30			1600 SOW BARN GROUND FLOOR - PARTIALS		

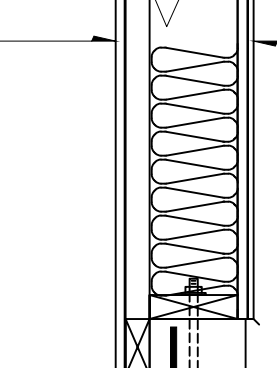
B1.3
REV. 0 R00



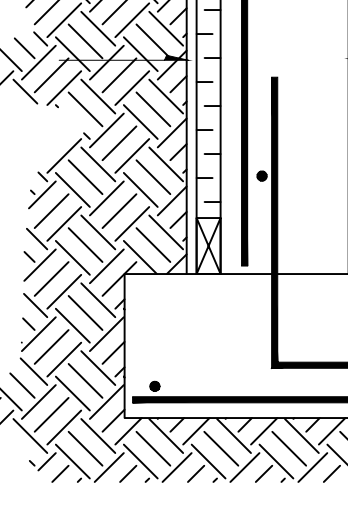
- TYPICAL ROOF:
- 29ga PREFINISHED STEEL (OVERLAP SHEETS 12" MIN.)
 - 2x4 PURLINS @ 24" o/c UTILITY GRADE
 - TRUSSES POSITIONED @ 24" o/c
 - R30 FIBREGLASS INSULATION
 - 6mil POLY VAPOUR BARRIER
 - 3/8" PLYWOOD PAINTED
- NOTE: FRAMING ANCHORS REQUIRED AT ALL TRUSS TO WALL CONNECTIONS AND BEARING LOCATIONS.



- EXTERIOR WALL:
- 3/8" PLYWOOD PAINTED
 - 5/8" MOISTURE RESISTANT 45 MIN. FIRE RATED DRYWALL
 - 6mil POLY VAPOUR BARRIER
 - R20 FIBREGLASS INSULATION
 - 2x6 STUDS @ 24" o/c
 - VERT. BLOCKING BTWN GIRTS @ 16 ft. o/c
 - 2x4 GIRTS @ 24" o/c
 - 29ga VERT. PREFINISHED METAL EXTERIOR (SITE MEASURE)



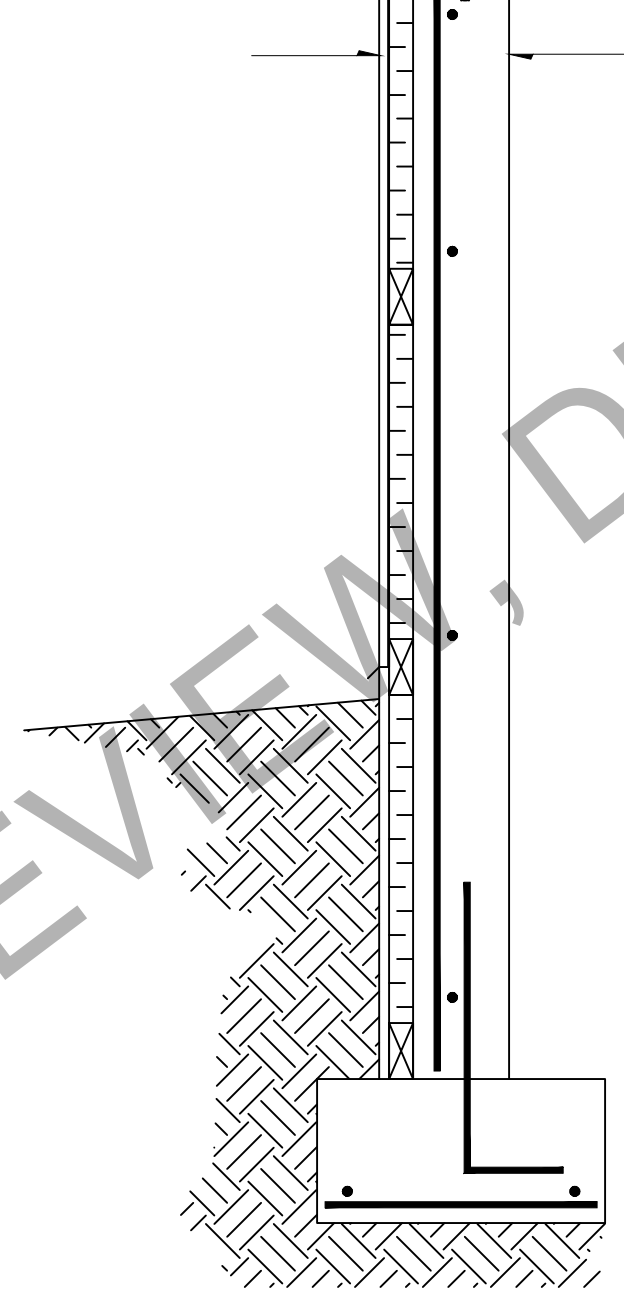
- FOUNDATION WALL:
- 8" THKx24" CONCRETE BOTTOM
 - 6" THKx48" CONCRETE TOP
 - 1 1/2" STYROFOAM SM
 - 2x4 GIRTS @ 24" o/c
 - 1/2" P.F. PLYWOOD



1
TYPICAL SIDE WALL SECTION

B2 SCALE: 1" = 1'-0"

- FOUNDATION WALL:
- 6" THKx72" CONCRETE
 - 1 1/2" STYROFOAM SM
 - 2x4 GIRTS @ 24" o/c
 - 1/2" P.F. PLYWOOD



2
TYPICAL END WALL SECTION

B2 SCALE: 1" = 1'-0"

ISSUED FOR REVIEW, DRAWING NOT FOR CONSTRUCTION

NO.	DATE	DESCRIPTION	INITIAL
01	2016/11/24	ISSUED FOR CLIENT REVIEW	RTD
PRINTED DATE: 11/24/2016 4:49:39 PM			

ENGINEER'S SEAL

DWG ISSUED FOR REVIEW

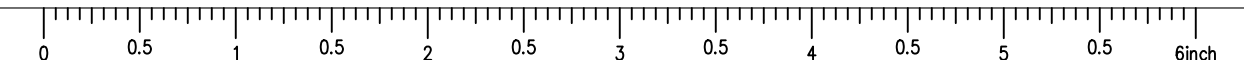
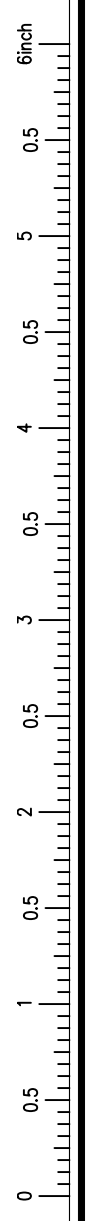
DGH ENGINEERING LTD.
PROFESSIONAL SERVICE - PRACTICAL SOLUTIONS

12 AVIATION BLVD, ST. ANDREWS, MB R1A 3N5
PHONE: (204) 334-8846 FAX: (204) 334-8885

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DESIGNED TRK	DRAWN RTD	COORDINATOR DGH
DATE AUG./2016	SCALE AS NOTED	X'REF PATH(S)

CLIENT MANITOBA PORK COUNCIL	PROJECT TITLE FARROW TO WEAN BARN COMPLEX
28 TERRACON PLACE WINNIPEG, MB R2J 4G7	PROJECT LOCATION
PROJECT NUMBER: 16-1-1306-005-30	1600 SOW BARN WALL SECTIONS
	B2 REV. 0 R00



Manitoba Pork Council

Appendix B

Farrow Wean Barn Budget

Sample Barn, 1600 Head Farrow, 75825 Square Feet

Prepared by DGH Engineering Ltd.

2017-01-25

REVISED September 19, 2023

Item	Description	Unit	Quantity	Unit Price	Unit Price	Unit Price	Sub-Total	Sub-Total	Sub-Total	Sub-Total	Division Sub-	Division Sub-	Division Total	Cost/sq.
				Material	- Labour	Equipment	Material	Labour & Equipment	Unit	Category	Total Materials	Total Labour & Equipment		ft.
	Division 1 - General Requirements										\$ 44,440.00	\$ 685,774.13	\$ 730,214.13	\$ 9.63
	Design, Engineering, and Construction Support									\$ 65,500.00				
	Design, Engineering, and Construction Support	fee	1		\$ 44,800.00		\$ -	\$ 44,800.00	\$ 44,800.00					
	EMS Design Fees & Certification	fee	1		\$ 20,700.00		\$ -	\$ 20,700.00	\$ 20,700.00					
1300	Administrative Requirements									\$ 613,774.13				\$ 8.09
	Permits	fee	0.01		6,819,712.60		\$ -	\$ 68,197.13	\$ 68,197.13					
	Insurance	fee	0.03		6,819,712.60		\$ -	\$ 204,591.38	\$ 204,591.38					
	Overhead/Administration	allow	0.05		6,819,712.60		\$ -	\$ 340,985.63	\$ 340,985.63					
1400	Quality Requirements	allow	1		\$ 2,500.00		\$ -	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00				\$ 0.03
1500	Temporary Facilities & Controls									\$ 44,440.00				\$ 0.59
	Miscellaneous Hardware & tools/Office Supplies/First Aid	allow	1	\$ 16,940.00			\$ 16,940.00	\$ -	\$ 16,940.00					
	Equipment Rental	allow	1	\$ 27,500.00			\$ 27,500.00	\$ -	\$ 27,500.00					
1700	Execution Requirements	allow	1		\$ 4,000.00		\$ -	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00				\$ 0.05
	Division 3 - Concrete										\$ 774,717.18	\$ 507,008.77	\$ 1,281,725.94	\$ 16.90
3101	Concrete Formwork									\$ 562,026.83				\$ 7.41
	<i>Forms in Place</i>													
	Footings (9"x18") (1.5SFCA/lin ft)	lin ft	3276	\$ 1.71	\$ 3.88	\$ -	\$ 5,601.96	\$ 12,707.60	\$ 18,309.56					
	6' Grade Beam w/Slat Provision One Side	lin ft	476	\$ 9.86	\$ 24.93		\$ 4,695.26	\$ 11,866.68	\$ 16,561.94					
	6' Grade Beam w/Slat Provision Both Sides	lin ft	66	\$ 9.86	\$ 24.93		\$ 651.02	\$ 1,645.38	\$ 2,296.40					
	6' Grade Beam	lin ft	2033	\$ 8.42	\$ 19.44		\$ 17,125.99	\$ 39,521.52	\$ 56,647.51					
	Pit Walls (2' x 4") (4SFCA/lin ft)	lin ft	9991	\$ 2.59	\$ 14.58	\$ -	\$ 25,896.67	\$ 145,668.78	\$ 171,565.45					
	Pit Floors	sq ft	53459	\$ 0.44	\$ 2.21	\$ -	\$ 23,671.65	\$ 118,358.23	\$ 142,029.87					
	Floor	sq ft	28182	\$ 0.44	\$ 2.71	\$ -	\$ 12,478.99	\$ 76,260.49	\$ 88,739.48					
	48"x48"x10" Footing Pad and 8" Pillaster	ea	9	\$ 105.10	\$ 135.42		\$ 945.91	\$ 1,218.82	\$ 2,164.73					
	Bin Pads	sq ft	1063	\$ 0.82	\$ 6.15	\$ -	\$ 871.66	\$ 6,537.45	\$ 7,409.11					
	Aprons	sq ft	130	\$ 0.82	\$ 6.15	\$ -	\$ 106.60	\$ 799.50	\$ 906.10					
	<i>Pour Concrete</i>													
	Footings (9"x18")	cu yds	137	\$ -	\$ 21.50	\$ 5.90	\$ -	\$ 3,753.80	\$ 3,753.80					
	6' Grade Beam w/Slat Provision One Side	cu yds	59		\$ 32.50	\$ 8.85	\$ -	\$ 2,439.65	\$ 2,439.65					
	6' Grade Beam w/Slat Provision Both Sides	cu yds	9	\$ -	\$ 32.50	\$ 8.85	\$ -	\$ 372.15	\$ 372.15					
	6' Grade Beam	cu yds	226		\$ 32.50	\$ 8.85	\$ -	\$ 9,345.10	\$ 9,345.10					
	FIP Pit Walls (2' x 4")	cu yds	247	\$ -	\$ 17.95	\$ 4.93	\$ -	\$ 5,651.36	\$ 5,651.36					
	Pit Floors	cu yds	660	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 20,988.00	\$ 20,988.00					
	Floor	cu yds	348	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 11,066.40	\$ 11,066.40					
	48"x48"x10" Footing Pad and 8" Pillaster	cu yds	6	\$ -	\$ 54.00	\$ 14.80	\$ -	\$ 412.80	\$ 412.80					
	Bin Pads	cu yds	40	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 1,272.00	\$ 1,272.00					
	Aprons	cu yds	3	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 95.40	\$ 95.40					
3200	Concrete Reinforcement									\$ 83,921.53				\$ 1.11

	2x4 PT Girts, to Concrete	BF	1825	\$ 1.82			\$ 3,321.50	\$ -	\$ 3,321.50					
	2x6 Columns	BF	396	\$ 1.04			\$ 411.84	\$ -	\$ 411.84					
	2x6 Header	BF	272	\$ 1.04			\$ 282.88	\$ -	\$ 282.88					
	2 ply 2x8 Lintel	BF	362	\$ 1.04			\$ 376.48	\$ -	\$ 376.48					
	2 ply 2x10 Lintel	BF	0	\$ 1.21			\$ -	\$ -	\$ -					
	2 ply 2x12 Lintel	BF	0	\$ 1.90			\$ -	\$ -	\$ -					
	2x4 Purlins (incl'd Valleys)	BF	26205	\$ 1.01			\$ 26,467.05	\$ -	\$ 26,467.05					
	2x4 Lateral Bracing	BF	8400	\$ 1.01			\$ 8,484.00	\$ -	\$ 8,484.00					
	2x6 Vertical Sway Bracing	BF	2800	\$ 1.01			\$ 2,828.00	\$ -	\$ 2,828.00					
	2x6 Anchor Bracing	BF	764	\$ 1.01			\$ 771.64	\$ -	\$ 771.64					
	2x6 Blocking under Splice Plates	BF	544	\$ 1.01			\$ 549.44	\$ -	\$ 549.44					
	1x4 Web Nailer	BF	728	\$ 1.22			\$ 888.16	\$ -	\$ 888.16					
	2x4 Ceiling Strapping	BF	25818	\$ 1.01			\$ 26,076.18	\$ -	\$ 26,076.18					
	2x6 Purlins	BF	2184	\$ 1.01			\$ 2,205.84	\$ -	\$ 2,205.84					
	2x6 Heels	BF	2184	\$ 1.01			\$ 2,205.84	\$ -	\$ 2,205.84					
	1x4 Soffit Nailer	BF	1092	\$ 1.22			\$ 1,332.24	\$ -	\$ 1,332.24					
	1x4 Painted Trim Board	BF	1726	\$ 1.22			\$ 2,105.72	\$ -	\$ 2,105.72					
	Soffit Doors, 8'	ea	136	\$ 66.06			\$ 8,984.16	\$ -	\$ 8,984.16					
	2x6 P.T. rough bucks for doors/windows	BF	398	\$ 1.82			\$ 724.36	\$ -	\$ 724.36					
	2x4 P.T. sill plate for doors/windows	BF	62	\$ 1.82			\$ 112.84	\$ -	\$ 112.84					
	Interior Galv. Drip Flashing	lin ft	5183	\$ 1.10			\$ 5,701.30	\$ -	\$ 5,701.30					
	2x2 Recirc duct	BF	6641	\$ 1.22			\$ 8,102.02	\$ -	\$ 8,102.02					
6160	Sheathing									\$ 103,453.80				\$ 1.36
	1/2" P.T. Plywood Sheathing	sq ft	2738	\$ 2.06			\$ 5,640.28	\$ -	\$ 5,640.28					
	3/8" OSB Sheathing Recirc duct	sq ft	10612	\$ 0.56			\$ 5,942.72	\$ -	\$ 5,942.72					
	3/8" OSB for Attic Smoke Stops (22)	sq ft	54648	\$ 0.56			\$ 30,602.88	\$ -	\$ 30,602.88					
	3/8" OSB to Wall, P.N.	sq ft	31098	\$ 0.56			\$ 17,414.88	\$ -	\$ 17,414.88					
	3/8" OSB to Gables, P.N.	sq ft	2484	\$ 0.56			\$ 1,391.04	\$ -	\$ 1,391.04					
	3/8" OSB to Ceiling, P.N.	sq ft	75825	\$ 0.56			\$ 42,462.00	\$ -	\$ 42,462.00					
6170	Pre-Fabricated Structural Wood									\$ 328,640.00				\$ 4.33
	Girder Truss	lin ft	185	\$ 55.00			\$ 10,175.00	\$ -	\$ 10,175.00					
	Pre-Fabricated Trusses w 2' Overhang	sq ft	75825	\$ 4.20			\$ 318,465.00	\$ -	\$ 318,465.00					
6220	Framing Labour									\$ 392,349.92				\$ 5.17
	2x6 Stud Wall @ 24" o/c 9' ht(Incl 2xT.P. & PT B.P.)	lin ft	242	\$ 6.80			\$ -	\$ 1,645.60	\$ 1,645.60					
	2x6 Stud Wall @ 24" o/c 6' ht(Incl 2xT.P. & PT B.P.)	lin ft	2070	\$ 6.80			\$ -	\$ 14,076.00	\$ 14,076.00					
	2x4 Stud Wall @ 24" o/c 6' ht(Incl 2xT.P. & PT B.P.)	lin ft	1206	\$ 6.25			\$ -	\$ 7,537.50	\$ 7,537.50					
	2x4 Stud Wall @ 16" o/c 9' ht(Incl 2xT.P. & PT B.P.)	lin ft	0	\$ 7.80			\$ -	\$ -	\$ -					
	2x4 Girts @ 24"	BF	3651	\$ 1.33			\$ -	\$ 4,863.13	\$ 4,863.13					
	2x4 PT Girts, to Concrete	BF	1825	\$ 1.62			\$ -	\$ 2,956.50	\$ 2,956.50					
	2x6 Columns	BF	396	\$ 0.85			\$ -	\$ 335.02	\$ 335.02					
	2x6 Header	BF	272	\$ 2.34			\$ -	\$ 636.48	\$ 636.48					
	2 ply 2x8 Lintel	BF	362	\$ 1.87			\$ -	\$ 677.66	\$ 677.66					
	2 ply 2x10 Lintel	BF	0	\$ 1.60			\$ -	\$ -	\$ -					
	2 ply 2x12 Lintel	BF	0	\$ 1.42			\$ -	\$ -	\$ -					
	2x4 Purlins (incl'd Valleys)	BF	26205	\$ 1.33			\$ -	\$ 34,905.06	\$ 34,905.06					
	2x4 Lateral Bracing	BF	8400	\$ 1.33			\$ -	\$ 11,188.80	\$ 11,188.80					
	2x6 Vertical Sway Bracing	BF	2800	\$ 1.33			\$ -	\$ 3,729.60	\$ 3,729.60					
	2x6 Anchor Bracing	BF	764	\$ 1.33			\$ -	\$ 1,017.65	\$ 1,017.65					
	2x6 Blocking under Splice Plates	BF	544	\$ 1.83			\$ -	\$ 995.52	\$ 995.52					
	1x4 Web Nailer	BF	728	\$ 2.82			\$ -	\$ 2,050.78	\$ 2,050.78					

	2x4 Ceiling Strapping	BF	25818		\$ 1.44		\$ -	\$ 37,177.92	\$ 37,177.92					
	2x6 Purlins	BF	2184		\$ 0.95		\$ -	\$ 2,063.88	\$ 2,063.88					
	2x6 Heels	BF	2184		\$ 1.69		\$ -	\$ 3,695.33	\$ 3,695.33					
	1x4 Soffit Nailer	BF	1092		\$ 2.81		\$ -	\$ 3,066.34	\$ 3,066.34					
	1x4 Painted Trim Board	BF	1726		\$ 2.00		\$ -	\$ 3,452.00	\$ 3,452.00					
	Soffit Doors, 8'	ea	136		\$ 30.00		\$ -	\$ 4,080.00	\$ 4,080.00					
	2x6 P.T. rough bucks for doors/windows	BF	398		\$ 1.95		\$ -	\$ 776.10	\$ 776.10					
	2x4 P.T. sill plate for doors/windows	BF	62		\$ 1.95		\$ -	\$ 120.90	\$ 120.90					
	Interior Galv. Drip Flashing	lin ft	5183		\$ 1.17		\$ -	\$ 6,064.11	\$ 6,064.11					
	2x3 Recirc duct	BF	6641		\$ 1.88		\$ -	\$ 12,485.08	\$ 12,485.08					
	1/2" P.T. Plywood Sheathing	sq ft	2738		\$ 0.83		\$ -	\$ 2,272.54	\$ 2,272.54					
	3/8" OSB Sheathing Recirc duct	sq ft	10612		\$ 0.69		\$ -	\$ 7,322.28	\$ 7,322.28					
	3/8" OSB for Attic Smoke Stops	sq ft	54648		\$ 0.63		\$ -	\$ 34,428.24	\$ 34,428.24					
	3/8" OSB to Wall, P.N.	sq ft	31098		\$ 0.63		\$ -	\$ 19,591.74	\$ 19,591.74					
	3/8" OSB to Gables, P.N.	sq ft	2484		\$ 0.63		\$ -	\$ 1,564.92	\$ 1,564.92					
	3/8" OSB to Ceiling, P.N.	sq ft	75825		\$ 0.69		\$ -	\$ 52,319.25	\$ 52,319.25					
	Pre-Fabricated Trusses w 2' Overhang	sq ft	75825		\$ 0.80	\$ 0.72	\$ -	\$ 115,254.00	\$ 115,254.00					
	Division 7 - Thermal & Moisture Protection										\$ 218,326.13	\$ 182,872.84	\$ 401,198.97	\$ 5.29
7210	Building Insulation									\$ 166,579.68				\$ 2.20
	R30 blow in Insulation	sq ft	75825	\$ 0.82	\$ 0.64	\$ 0.34	\$ 62,176.50	\$ 74,308.50	\$ 136,485.00					
	Insulation Stops	ea	546	\$ 3.94			\$ 2,151.24	\$ -	\$ 2,151.24					
	Perimeter Ins., 2" Polystyrene (R7.69) below grade	sq ft	2738	\$ 1.59			\$ 4,353.42	\$ -	\$ 4,353.42					
	Perimeter Ins., 1 1/2" Polystyrene (R7.69) around perimeter con	sq ft	8214	\$ 1.37			\$ 11,253.18	\$ -	\$ 11,253.18					
	6"x23" Fibreglass Batts Unfaced (R20)	sq ft	12420	\$ 0.93			\$ 11,550.60	\$ -	\$ 11,550.60					
7260	Vapour Retarders									\$ 8,704.84				\$ 0.11
	Urethane Sill Gasket	lin ft	3276	\$ 0.24			\$ 786.24	\$ -	\$ 786.24					
	6mil Poly Vapour Barrier	C. sq ft	1156	\$ 6.85			\$ 7,918.60	\$ -	\$ 7,918.60					
7400	Roofing & Siding Panels									\$ 116,309.21				\$ 1.53
	10' Wall Metal Cladding	lin ft	4570	\$ 4.38			\$ 20,016.60	\$ -	\$ 20,016.60					
	40' Roof Metal Cladding	lin ft	7280	\$ 4.38			\$ 31,886.40	\$ -	\$ 31,886.40					
	35' Roof Metal Cladding	lin ft	6370	\$ 4.38			\$ 27,900.60	\$ -	\$ 27,900.60					
	18' Wall Gable Metal Cladding	lin ft	864	\$ 4.38			\$ 3,784.32	\$ -	\$ 3,784.32					
	2' Fascia	lin ft	728	\$ 4.90			\$ 3,567.20	\$ -	\$ 3,567.20					
	2' Soffit	sq ft	2184	\$ 1.05			\$ 2,293.20	\$ -	\$ 2,293.20					
	J Trim	lin ft	3250	\$ 1.26			\$ 4,095.00	\$ -	\$ 4,095.00					
	Rake Flashing	lin ft	1100	\$ 1.94			\$ 2,134.00	\$ -	\$ 2,134.00					
	Divider Flashing	lin ft	280	\$ 1.26			\$ 352.80	\$ -	\$ 352.80					
	Base Drip Flashing	lin ft	1370	\$ 1.26			\$ 1,726.20	\$ -	\$ 1,726.20					
	Outside Corner	lin ft	40	\$ 3.20			\$ 128.00	\$ -	\$ 128.00					
	Fascia	lin ft	1100	\$ 1.84			\$ 2,024.00	\$ -	\$ 2,024.00					
	Gable Flashing	lin ft	300	\$ 2.99			\$ 897.00	\$ -	\$ 897.00					
	Ridge Cap	lin ft	550	\$ 3.15			\$ 1,732.50	\$ -	\$ 1,732.50					
	Butyl Tape, 50' roll	ea	273	\$ 8.95			\$ 2,443.35	\$ -	\$ 2,443.35					
	Foam Closures	ea	368	\$ 4.28			\$ 1,575.04	\$ -	\$ 1,575.04					
	#10 x 1 1/2" Pre-painted Screws w/neoprene washer	ea	57300	\$ 0.13			\$ 7,449.00	\$ -	\$ 7,449.00					
	#12 x 5/8" Pre-painted Stitch Screw w/neoprene washer	ea	12800	\$ 0.18			\$ 2,304.00	\$ -	\$ 2,304.00					
7900	Joint Sealers									\$ 1,040.90				\$ 0.01
	Acoustical Sealant, 3/4" dia	c. lin ft	70	\$ 14.87			\$ 1,040.90	\$ -	\$ 1,040.90					
7990	Installation of Insulation and Cladding									\$ 108,564.34				\$ 1.43
	Insulation Stops	ea	546	\$ 1.50			\$ -	\$ 819.00	\$ 819.00					

	Perimeter Ins., 2" Polystyrene (R7.69)	sq ft	2738	\$ 0.64		\$ -	\$ 1,752.32	\$ 1,752.32					
	Perimeter Ins., 1 1/2" Polystyrene (R7.69) around perimeter con	sq ft	8214	\$ 0.64		\$ -	\$ 5,256.96	\$ 5,256.96					
	6"x23" Fibreglass Batts Unfaced (R20)	sq ft	12420	\$ 0.35		\$ -	\$ 4,347.00	\$ 4,347.00					
	Urethane Sill Gasket	lin ft	3276	\$ 0.20		\$ -	\$ 655.20	\$ 655.20					
	6mil Poly Vapour Barrier	C. sq ft	1156	\$ 12.65		\$ -	\$ 14,623.40	\$ 14,623.40					
	10' Wall Metal Cladding	lin ft	4570	\$ 4.58		\$ -	\$ 20,930.60	\$ 20,930.60					
	40' Roof Metal Cladding	lin ft	7280	\$ 3.49		\$ -	\$ 25,407.20	\$ 25,407.20					
	35' Roof Metal Cladding	lin ft	6370	\$ 3.49		\$ -	\$ 22,231.30	\$ 22,231.30					
	18' Wall Gable Metal Cladding	lin ft	864	\$ 4.58		\$ -	\$ 3,957.12	\$ 3,957.12					
	2' Facsia	lin ft	728	\$ 4.58		\$ -	\$ 3,334.24	\$ 3,334.24					
	Accoustical Sealant, 3/4" dia	c. lin ft	70	\$ 75.00		\$ -	\$ 5,250.00	\$ 5,250.00					
	Division 8 - Doors & Windows									\$ 51,427.50	\$ 15,749.66	\$ 67,177.16	\$ 0.89
8100	Steel Doors & Frame								\$ 51,356.60				
	Steel Door, Insulated, 18 ga, 3'0" x 6' 8" with Frame/Hardware	ea	1	\$ 2,864.95	\$ 578.50	\$ 2,864.95	\$ 578.50	\$ 3,443.45					
	Steel Double Door, Insulated, 18 ga, 6'0" x 6' 8" with Frame/Hardware	ea	1	\$ 3,479.95	\$ 641.00	\$ 3,479.95	\$ 641.00	\$ 4,120.95					
	Emergency Exits	ea	18	\$ 1,061.90	\$ 389.75	\$ 19,114.20	\$ 7,015.50	\$ 26,129.70					
	Interior Office Door c/w Frame and Hardware	ea	15	\$ 1,013.00	\$ 164.50	\$ 15,195.00	\$ 2,467.50	\$ 17,662.50					
8200	Wood & Plastic Doors								\$ 13,825.56				\$ 0.18
	Site Built Wood Door 3'0" x 6'8"	ea	28	\$ 225.00	\$ 135.00	\$ 6,300.00	\$ 3,780.00	\$ 10,080.00					
	Wood Frame, 5/4x4 9/16" deep	lin ft	364	\$ 8.10	\$ 2.19	\$ 2,948.40	\$ 797.16	\$ 3,745.56					
8300	Specialty Doors								\$ 1,995.00				\$ 0.03
	3'x7' Overhead Door, 24 ga. Steel, chain hoist operated	ea	1	\$ 1,525.00	\$ 470.00	\$ 1,525.00	\$ 470.00	\$ 1,995.00					
	Division 9 - Finishes									\$ 36,698.06	\$ 107,714.18	\$ 144,412.24	\$ 1.90
9100	Metal Support Assemblies								\$ 3,880.80				\$ 0.05
	5/16" T-Bar Support System, 2'x4' grid	sq ft	1980	\$ 1.37	\$ 0.59	\$ 2,712.60	\$ 1,168.20	\$ 3,880.80					
9250	Gypsum Board								\$ 29,673.84				\$ 0.39
	5/8" FR Drywall, Moisture Resistant	sq ft	8412	\$ 1.09		\$ 9,169.08	\$ -	\$ 9,169.08					
	5/8" Drywall	sq ft	7792	\$ 0.74		\$ 5,766.08	\$ -	\$ 5,766.08					
	Boarding, Walls	sq ft	14224	\$ -	\$ 0.47	\$ -	\$ 6,685.28	\$ 6,685.28					
	Boarding, Ceilings	sq ft	1980	\$ -	\$ 0.52	\$ -	\$ 1,029.60	\$ 1,029.60					
	Tape & Finish, Walls	sq ft	7792	\$ -	\$ 0.50	\$ -	\$ 3,896.00	\$ 3,896.00					
	Firetape, Walls	sq ft	8412	\$ 0.05	\$ 0.15	\$ 420.60	\$ 1,261.80	\$ 1,682.40					
	Tape & Finish, Ceilings	sq ft	1980	\$ -	\$ 0.73	\$ -	\$ 1,445.40	\$ 1,445.40					
9500	Ceiling								\$ 6,811.20				\$ 0.09
	5/8" Mineral Fibre Tiles	sq ft	1980	\$ 2.69	\$ 0.75	\$ 5,326.20	\$ 1,485.00	\$ 6,811.20					
9910	Painting								\$ 104,046.40				\$ 1.37
	Paint walls & ceilings	sq ft	114715		\$ 0.76	\$ -	\$ 87,183.40	\$ 87,183.40					
	Paint Doors	ea	63	\$ 20.50	\$ 56.50	\$ 1,291.50	\$ 3,559.50	\$ 4,851.00					
	Oil Primer	5 gal	36	\$ 102.00	\$ -	\$ 3,672.00	\$ -	\$ 3,672.00					
	Latex Paint	5 gal	60	\$ 139.00	\$ -	\$ 8,340.00	\$ -	\$ 8,340.00					
	Division 10 - Specialties									\$ 2,673.00	\$ 344.30	\$ 3,017.30	\$ 0.04
10520	Fire Protection Specialties								\$ 3,017.30				
	All Purpose 9 1/2 lbs Extinguisher	ea	22	\$ 121.50		\$ 2,673.00	\$ -	\$ 2,673.00					
	Mount Extinguishers	ea	22		\$ 15.65	\$ -	\$ 344.30	\$ 344.30					
	Division 11 - Building Equipment									\$ 2,619,529.21	\$ 282,016.52	\$ 2,901,545.73	\$ 38.27
11800	Barn Equipment								\$ 1,116,602.80				\$ -
	Penning, Stalls & Flooring			\$ -					\$ 1,116,602.80				\$ 14.73
	Boar Pens	ea	3	\$ 631.13		\$ 1,893.38		\$ 1,893.38					
	Gilt Stalls, black steel	ea	215	\$ 499.49		\$ 107,389.92		\$ 107,389.92					
	PVC Plank 2" x 38" x 22'	ea	129	\$ 447.34		\$ 57,707.04		\$ 57,707.04					

PVC Bullnose, 2"x32"	ea	76	\$ 15.37		\$ 1,168.18	\$ 1,168.18						
PVC Dropped 3/4"x20'	ea	16	\$ 40.45		\$ 647.19	\$ 647.19						
1/4" SS Bolt/Washers/Lock Nuts	ea	350	\$ 0.73		\$ 257.04	\$ 257.04						
SS 6 Loop U-channel Post 38" w/Plate	ea	28	\$ 87.37		\$ 2,446.38	\$ 2,446.38						
SS 3 Loop U-channel Post 38" w/Plate	ea	13	\$ 89.79		\$ 1,167.29	\$ 1,167.29						
SS 3-way U-Channel Post 38" w/Plate	ea	11	\$ 122.31		\$ 1,345.42	\$ 1,345.42						
SS 4-way U-Channel Post 38" w/Plate	ea	51	\$ 142.70		\$ 7,277.51	\$ 7,277.51						
SS U-Channel Post 38" w/Plate	ea	143	\$ 71.19		\$ 10,180.30	\$ 10,180.30						
SS Wall U-Channel Post, 38"	ea	41	\$ 63.75		\$ 2,613.75	\$ 2,613.75						
SS 3-Loop Wall Bracket	ea	5	\$ 57.44		\$ 287.22	\$ 287.22						
3/8" SS Lag Bolts	ea	150	\$ 2.18		\$ 326.40	\$ 326.40						
SS T-Bolt w/nuts and washers	ea	1260	\$ 7.46		\$ 9,398.03	\$ 9,398.03						
Nursery Flooring	ea	1584	\$ 7.89		\$ 12,497.76	\$ 12,497.76						
Farrow Crates (c/w flooring & creep penning)	ea	400	\$ 2,250.00		\$ 900,000.00	\$ 900,000.00						
Animal HVAC										\$ 249,792.40		\$ 3.29
Exhaust Fan - Better Air LPF-2400	ea	11	\$ 893.70		\$ 9,830.70	\$ 9,830.70						
Exhaust Fan - Better Air LPF-2800	ea	1	\$ 1,071.00		\$ 1,071.00	\$ 1,071.00						
Exhaust Fan - Better Air LPF-3800	ea	3	\$ 1,334.70		\$ 4,004.10	\$ 4,004.10						
Exhaust Fan - Better Air LPF-4800	ea	3	\$ 1,994.40		\$ 5,983.20	\$ 5,983.20						
Exhaust Fan - Better Air LPF-2000	ea	5	\$ 782.10		\$ 3,910.50	\$ 3,910.50						
Exhaust Fan - Better Air LPF-1000	ea	3	\$ 524.70		\$ 1,574.10	\$ 1,574.10						
Exhaust Fan - Better Air LPF-1200	ea	2	\$ 564.30		\$ 1,128.60	\$ 1,128.60						
Exhaust Fan - Better Air LPF-1400	ea	22	\$ 570.60		\$ 12,553.20	\$ 12,553.20						
Exhaust Fan - Better Air LPF-1600	ea	2	\$ 640.80		\$ 1,281.60	\$ 1,281.60						
Exhaust Fan - Better Air LPF-1800	ea	1	\$ 692.10		\$ 692.10	\$ 692.10						
Exhaust Fan - Better AirFW-6020	ea	3	\$ 2,886.30		\$ 8,658.90	\$ 8,658.90						
Recirc Fan Better Air LCF 1200	ea	2	\$ 434.70		\$ 869.40	\$ 869.40						
Recirc Fan Better Air LCF 1400	ea	1	\$ 469.80		\$ 469.80	\$ 469.80						
Recirc Fan Better Air LCF 1800	ea	21	\$ 545.40		\$ 11,453.40	\$ 11,453.40						
Recirc Fan Better Air LCF 2400	ea	5	\$ 675.90		\$ 3,379.50	\$ 3,379.50						
Recirc. Fan LCF-2000	ea	3	\$ 585.90		\$ 1,757.70	\$ 1,757.70						
16/18" Backdraft Damper	ea	2	\$ 120.60		\$ 241.20	\$ 241.20						
20/24" Backdraft Damper	ea	3	\$ 157.50		\$ 472.50	\$ 472.50						
Winter Closure	ea	33	\$ 213.30		\$ 7,038.90	\$ 7,038.90						
White Silicone	ea	30	\$ 5.64		\$ 169.29	\$ 169.29						
#10 x 1 1/2" SS Screws	ea	5000	\$ 0.18		\$ 900.00	\$ 900.00						
Air Inlet - Better Air SF-1200	ea	284	\$ 118.35		\$ 33,611.40	\$ 33,611.40						
Air inlet actuator	ea	21	\$ 535.50		\$ 11,245.50	\$ 11,245.50						
SS cable	lin. Ft.	4600	\$ 1.17		\$ 5,382.00	\$ 5,382.00						
Galv. Cable Clamp	ea	268	\$ 3.15		\$ 844.20	\$ 844.20						
Azuma nuts	ea	568	\$ 2.30		\$ 1,303.56	\$ 1,303.56						
Air inlet counterweight	ea	42	\$ 34.62		\$ 1,454.17	\$ 1,454.17						
Hanging pulley	ea	80	\$ 13.50		\$ 1,080.00	\$ 1,080.00						
Flush mount pulley	ea	97	\$ 10.80		\$ 1,047.60	\$ 1,047.60						
Hand Winch w/bracket and bolts	ea	21	\$ 112.50		\$ 2,362.50	\$ 2,362.50						
Space Heater (60/100 MBTU)	ea	3	\$ 900.00		\$ 2,700.00	\$ 2,700.00						
Space Heater (250 MBTUH)	ea	17	\$ 1,687.50		\$ 28,687.50	\$ 28,687.50						
Heat Lamps	ea	400	\$ 37.01		\$ 14,803.56	\$ 14,803.56						
Heat Pads	ea	390	\$ 127.93		\$ 49,891.67	\$ 49,891.67						
Master Heat Pads	ea	10	\$ 323.51		\$ 3,235.06	\$ 3,235.06						
Back-up thermostat	ea	16	\$ 99.00		\$ 1,584.00	\$ 1,584.00						

Manual fan control	ea	16	\$ 155.00		\$ 2,480.00	\$ 2,480.00					
Temperature Probe with Cable	ea	16	\$ 665.00		\$ 10,640.00	\$ 10,640.00					
Watering System									\$ 107,045.07		\$ 1.41
Water Meter	ea	1	\$ 1,000.00		\$ 1,000.00	\$ 1,000.00					
1 1/2" camlock coupler FCCxHB	ea	20	\$ 15.27		\$ 305.37	\$ 305.37					
1 1/2" camlock coupler MCCxFNT	ea	20	\$ 3.62		\$ 72.36	\$ 72.36					
1 1/2" PVC sch40 end cap	ea	5	\$ 1.11		\$ 5.54	\$ 5.54					
1 1/2" PVC sch40 true union	ea		\$ 18.74		\$ -	\$ -					
1 1/2" PVC sc40 true union ball valve	ea	4	\$ 61.57		\$ 246.29	\$ 246.29					
1 1/2" PVC sch40 45 degree elbow	ea	20	\$ 2.46		\$ 49.14	\$ 49.14					
1 1/2" PVC sch40 90 degree elbow	ea	24	\$ 1.74		\$ 41.80	\$ 41.80					
1 1/2" PVC sch40 adapter SxMNT	ea	20	\$ 1.32		\$ 26.46	\$ 26.46					
1 1/2" PVC sch40 ball valve	ea	21	\$ 14.82		\$ 311.28	\$ 311.28					
1 1/2" PVC sch40 coupling Sx5	ea	50	\$ 2.74		\$ 137.03	\$ 137.03					
1 1/2" PVC sch40 pipe (linear feet)	ea	1200	\$ 3.94		\$ 4,730.40	\$ 4,730.40					
1 1/2" PVC sch40 tee	ea	20	\$ 2.34		\$ 46.71	\$ 46.71					
1 1/2" PVC standoff clamp	ea	300	\$ 5.21		\$ 1,563.30	\$ 1,563.30					
1 1/2" x 3/4" PVC sch40 tee	ea	32	\$ 3.81		\$ 121.82	\$ 121.82					
1/4" braided hose (linear feet)	ea	1650	\$ 0.54		\$ 891.00	\$ 891.00					
1/4" S.S. hose clamps	ea	1036	\$ 0.49		\$ 512.20	\$ 512.20					
24v transformer for solenoid valve	ea	24	\$ 28.32		\$ 679.68	\$ 679.68					
3/4" PVC sch40 end cap	ea	149	\$ 1.03		\$ 152.87	\$ 152.87					
3/4" PVC sch40 90 degree elbow	ea	142	\$ 0.55		\$ 78.60	\$ 78.60					
3/4" PVC sch40 ball valve SxS	ea	564	\$ 4.85		\$ 2,733.43	\$ 2,733.43					
3/4" PVC sch40 coupling SxS	ea	225	\$ 0.47		\$ 106.31	\$ 106.31					
3/4" PVC sch40 pipe (linear feet)	ea	8100	\$ 1.59		\$ 12,903.30	\$ 12,903.30					
3/4" PVC sch40 SxMT adapter	ea	48	\$ 0.51		\$ 24.62	\$ 24.62					
3/4" PVC sch40 tee	ea	681	\$ 0.68		\$ 459.68	\$ 459.68					
3/4" PVC sch40 true union	ea		\$ 5.49		\$ -	\$ -					
3/4" PVC sch40 true union ball valve	ea	48	\$ 39.69		\$ 1,905.12	\$ 1,905.12					
3/4" PVC standoff clamp	ea	2100	\$ 2.67		\$ 5,613.30	\$ 5,613.30					
PVC glue	ea	16	\$ 22.77		\$ 364.39	\$ 364.39					
PVC primer	ea	16	\$ 15.01		\$ 240.19	\$ 240.19					
Reducing adapter, 1/2" MNT x 1/4" hose barb	ea	518	\$ 4.04		\$ 2,090.91	\$ 2,090.91					
Reducing adapter, 3/4" slip x 1/4" hose barb	ea	518	\$ 2.17		\$ 1,125.87	\$ 1,125.87					
Sow Dripper	ea	400	\$ 1.28		\$ 510.00	\$ 510.00					
Solenoid valves	ea	24	\$ 40.55		\$ 973.20	\$ 973.20					
Fire hose (linear feet)	ea	300	\$ 3.81		\$ 1,142.10	\$ 1,142.10					
Spray Nozzle	ea	4	\$ 20.13		\$ 80.51	\$ 80.51					
36" Double Drinker w/Nipples	ea	118	\$ 60.41		\$ 7,128.68	\$ 7,128.68					
Teflon Tape	ea	24	\$ 1.50		\$ 35.96	\$ 35.96					
#8x3" SS Screws	ea	5000	\$ 0.28		\$ 1,400.00	\$ 1,400.00					
Medicator	ea	1	\$ 902.37		\$ 902.37	\$ 902.37					
5% allowance for extras & modifications	ea	0.05	\$ 1,108.61		\$ 55.43	\$ 55.43					
1/2" sch80 galv steel pipe (linear feet)	ea	2260	\$ 5.45		\$ 12,317.00	\$ 12,317.00					
3/4" sch80 galv steel pipe (linear feet)	ea	600	\$ 6.60		\$ 3,960.00	\$ 3,960.00					
1/2" sch80 galv steel 90 degree elbow	ea	40	\$ 6.96		\$ 278.40	\$ 278.40					
1/2" sch80 galv steel tee	ea	17	\$ 15.90		\$ 270.30	\$ 270.30					
1/2" sch80 galv steel ball valves	ea	60	\$ 39.00		\$ 2,340.00	\$ 2,340.00					
3/4" sch80 galv steel ball valves	ea	3	\$ 71.00		\$ 213.00	\$ 213.00					
3/4"x 1/2 "sch80 galv steel tee	ea	20	\$ 85.08		\$ 1,701.53	\$ 1,701.53					

1/2" sch80 galv steel coupling	ea	120	\$ 9.66		\$ 1,159.20	\$ 1,159.20				
1/2" sch80 galv steel union	ea	18	\$ 32.40		\$ 583.20	\$ 583.20				
1/2" aluminum long shank pipe hangers	ea	750	\$ 5.78		\$ 4,335.00	\$ 4,335.00				
3/4" sch80 galv steel 90 degree elbow	ea	12	\$ 8.40		\$ 100.80	\$ 100.80				
3/4" sch80 galv steel coupling	ea	40	\$ 11.34		\$ 453.60	\$ 453.60				
3/4" sch80 galv steel union	ea	4	\$ 37.80		\$ 151.20	\$ 151.20				
3/4" End Cap	ea	2	\$ 9.54		\$ 19.08	\$ 19.08				
Pressure washer drops	ea	43	\$ 75.00		\$ 3,225.00	\$ 3,225.00				
#10x3" SS Screws	ea	1500	\$ 0.42		\$ 630.00	\$ 630.00				
Teflon Tape	ea	50	\$ 0.81		\$ 40.54	\$ 40.54				
10 HP Pressure Washer	ea	1	\$ 24,500.00		\$ 24,500.00	\$ 24,500.00				
Feed System			\$ -			\$ -	\$ 962,754.41			\$ 12.70
Boot bin	ea	8	\$ 62.26		\$ 498.05	\$ 498.05				
Bin Unloader	ea	8	\$ 466.07		\$ 3,728.59	\$ 3,728.59				
PVC Tubing (10 ft Tube)	ea	370	\$ 32.71		\$ 12,101.89	\$ 12,101.89				
Auger Flighting	lin ft	3650	\$ 4.24		\$ 15,477.28	\$ 15,477.28				
Elbow	ea	11	\$ 27.48		\$ 302.32	\$ 302.32				
Tube Clamp	ea	22	\$ 4.98		\$ 109.59	\$ 109.59				
Flex Auger Tube Spacer Shim	ea	22	\$ 6.90		\$ 151.72	\$ 151.72				
PVC Coupler	ea	400	\$ 6.25		\$ 2,498.04	\$ 2,498.04				
Drop Kit	ea	646	\$ 17.52		\$ 11,318.11	\$ 11,318.11				
3/4 HP Feed Motor	ea	50	\$ 647.07		\$ 32,353.63	\$ 32,353.63				
1 HP Feed Motor	ea	5	\$ 733.09		\$ 3,665.47	\$ 3,665.47				
Feedlines Extension Unit	ea	2	\$ 501.27		\$ 1,002.55	\$ 1,002.55				
Control Unit	ea	55	\$ 257.29		\$ 14,150.86	\$ 14,150.86				
Proximity Sensor	ea	55	\$ 174.11		\$ 9,576.02	\$ 9,576.02				
3 1/2" Plastic Drop Tubes (12' Length)	ea	216	\$ 31.27		\$ 6,755.21	\$ 6,755.21				
Wall Seal Plate and Gasket	ea	11	\$ 69.51		\$ 764.61	\$ 764.61				
PVC glue	ea	24	\$ 16.87		\$ 404.88	\$ 404.88				
PVC primer	ea	24	\$ 11.12		\$ 266.88	\$ 266.88				
3/16" Zinc Plated Chain	lin ft	1500	\$ 1.31		\$ 1,965.00	\$ 1,965.00				
2" Plated S Hook	ea	500	\$ 0.69		\$ 345.00	\$ 345.00				
1/4" x 3 1/4" SS Screwhook	ea	500	\$ 3.50		\$ 1,750.00	\$ 1,750.00				
Feed System Time Clock	ea	3	\$ 514.56		\$ 1,543.68	\$ 1,543.68				
SS Trough	ea	360	\$ 20.96		\$ 7,545.15	\$ 7,545.15				
SS Feeders, Wet/Dry, 2 spc, 2 side	ea	5	\$ 523.60		\$ 2,618.00	\$ 2,618.00				
Boar Feeder	ea	3	\$ 349.99		\$ 1,049.96	\$ 1,049.96				
Electronic Sow Feeders	package	1	\$ 794,464.61		\$ 794,464.61	\$ 794,464.61				
1.4 Tonne Feed Bin	ea	1	\$ 2,839.46		\$ 2,839.46	\$ 2,839.46				
5.2 Tonne Feed Bin	ea	2	\$ 3,398.61		\$ 6,797.22	\$ 6,797.22				
28.7 Tonne Feed Bin	ea	1	\$ 10,168.94		\$ 10,168.94	\$ 10,168.94				
22.64 tonne Feed Bins	ea	2	\$ 8,270.84		\$ 16,541.69	\$ 16,541.69				
Lift Station			\$ -			\$ -	\$ 44,305.44			\$ 0.58
5' x 36" Concrete Well Cribbing	ea	3	\$ 583.20		\$ 1,749.60	\$ 1,749.60				
5' Concrete Well Base	ea	1	\$ 704.70		\$ 704.70	\$ 704.70				
5' Concrete Top	ea	1	\$ 324.00		\$ 324.00	\$ 324.00				
ITT Flygt 10HP Submersible Pump w/controls, starter	ea	1	\$ 34,800.00		\$ 34,800.00	\$ 34,800.00				
3/16" SS Cable	lin ft	25	\$ 1.03		\$ 25.75	\$ 25.75				
3/16" SS Clamp	ea	4	\$ 9.24		\$ 36.96	\$ 36.96				
Discharge Elbow for 10HP Pump	ea	1	\$ 2,514.26		\$ 2,514.26	\$ 2,514.26				
Float w/6m cable	ea	3	\$ 292.03		\$ 876.09	\$ 876.09				

	SS guide Rails	ea	2	\$ 537.04		\$ 1,074.08	\$ 1,074.08					
	2000lb Winch on Stand	ea	1	\$ 1,950.00		\$ 1,950.00	\$ 1,950.00					
	Bolts and Parts Allowance	ea	1	\$ 250.00		\$ 250.00	\$ 250.00					
	Sewer Pipe			\$ -			\$ -	\$ 75,061.73				\$ 0.99
	10" Ultra-rib Pipe	lin ft	800	\$ 18.35		\$ 14,680.00	\$ 14,680.00					
	10" U-R 45 degree Elbow	ea	8	\$ 613.24		\$ 4,905.92	\$ 4,905.92					
	10"x8" U-R Wye	ea	9	\$ 768.30		\$ 6,914.70	\$ 6,914.70					
	10"x8" U-R Tee	ea	9	\$ 426.30		\$ 3,836.70	\$ 3,836.70					
	10" U-R Wye	ea	5	\$ 948.26		\$ 4,741.30	\$ 4,741.30					
	8" U-R x 6" SDR35 Adapter	ea	16	\$ 305.31		\$ 4,884.96	\$ 4,884.96					
	8" Ultra-rib Tee	ea	20	\$ 383.52		\$ 7,670.40	\$ 7,670.40					
	8" Ultra-rib 45 Elbow	ea	9	\$ 263.67		\$ 2,373.03	\$ 2,373.03					
	8" Ultra-rib pipe	lin ft	1600	\$ 11.37		\$ 18,196.80	\$ 18,196.80					
	8" Pit Plugs	ea	28	\$ 32.00		\$ 896.00	\$ 896.00					
	6" SRD35 Pipe	lin ft	128	\$ 12.27		\$ 1,570.56	\$ 1,570.56					
	6" SDR35 45 degree Elbow	ea	16	\$ 56.69		\$ 907.04	\$ 907.04					
	6" SDR 35 Union	ea	16	\$ 75.95		\$ 1,215.20	\$ 1,215.20					
	6" SDR35 90 degree Elbow	ea	32	\$ 70.91		\$ 2,269.12	\$ 2,269.12					
	Misc			\$ -			\$ -	\$ 63,967.36				\$ 0.84
	Alarm System	ea	1	\$ 4,500.00		\$ 4,500.00	\$ 4,500.00					
	Load-out Ramp	ea	1	\$ 2,240.00		\$ 2,240.00	\$ 2,240.00					
	Barn Controls System (Ventilation, Heat, Feed)	ea	1	\$ 55,250.00		\$ 55,250.00	\$ 55,250.00					
	Stationary Weigh Scale	ea	1	\$ 1,717.36		\$ 1,717.36	\$ 1,717.36					
	Load Cells, 500lbs	ea	4	\$ 65.00		\$ 260.00	\$ 260.00					
11850	Equipment Installation							\$ 282,016.52				\$ 3.72
	Install Penning	lin ft	2800	\$ 7.78		\$ 21,784.00	\$ 21,784.00					
	Install Stalls	ea	215	\$ 40.84		\$ 8,780.60	\$ 8,780.60					
	Install Farrow Crates, complete with creep, flooring, access	ea	400	\$ 157.63		\$ 63,052.00	\$ 63,052.00					
	Install Nursery Flooring	sq ft	1584	\$ 2.36		\$ 3,738.24	\$ 3,738.24					
	Install Exhaust & Recirculation Fans	ea	88	\$ 9.72		\$ 855.36	\$ 855.36					
	Install Air Inlets	ea	284	\$ 9.72		\$ 2,760.48	\$ 2,760.48					
	Install Inlet Actuators	ea	21	\$ 9.72		\$ 204.12	\$ 204.12					
	Install Heaters	ea	20	\$ 110.16		\$ 2,203.20	\$ 2,203.20					
	Install Control System	ea	1	\$ 7,165.00		\$ 7,165.00	\$ 7,165.00					
	Install Back-up Thermostats	ea	16	\$ 95.00		\$ 1,520.00	\$ 1,520.00					
	Install Manual Fan Controls	ea	16	\$ 95.00		\$ 1,520.00	\$ 1,520.00					
	Install Waterlines	lin ft	9300	\$ 4.08		\$ 37,944.00	\$ 37,944.00					
	Install Drinkers	ea	118	\$ 19.44		\$ 2,293.92	\$ 2,293.92					
	Install HPW Pipe	lin ft	2860	\$ 6.29		\$ 17,989.40	\$ 17,989.40					
	Install Pressure Washer	ea	1	\$ 760.00		\$ 760.00	\$ 760.00					
	Install Feed Lines	lin ft	3650	\$ 6.80		\$ 24,820.00	\$ 24,820.00					
	Install Feed Motors	ea	60	\$ 97.20		\$ 5,832.00	\$ 5,832.00					
	Install Feeders	ea	5	\$ 32.40		\$ 162.00	\$ 162.00					
	Install SS Trough	lin ft	360	\$ 9.31		\$ 3,351.60	\$ 3,351.60					
	Install ESF	ea	30	\$ 630.52		\$ 18,915.60	\$ 18,915.60					
	Install Feed Bins	ea	6	\$ 1,440.00		\$ 8,640.00	\$ 8,640.00					
	Install Lift Station	ea	1	\$ 4,440.00		\$ 4,440.00	\$ 4,440.00					
	Install Sewer Pipe	lin ft	2300	\$ 16.75		\$ 38,525.00	\$ 38,525.00					
	Install Alarms	ea	1	\$ 2,600.00		\$ 2,600.00	\$ 2,600.00					
	Install Load-out Ramp	ea	1	\$ 960.00		\$ 960.00	\$ 960.00					
	Install Scale	ea	1	\$ 1,200.00		\$ 1,200.00	\$ 1,200.00					

	Strip Top Soil	cu yds	7200			\$ 4.96	\$ -	\$ 35,712.00	\$ 35,712.00				
	Excavate Cells and Backfill to Berms	cu yds	18550			\$ 6.48	\$ -	\$ 120,204.00	\$ 120,204.00				
	High Density PolyEthylene Liner	sq ft	132679	\$ 1.02	\$ 0.44		\$ 135,332.58	\$ 58,378.76	\$ 193,711.34				
	6" Pipe to lagoon	lin ft	75	\$ 12.27	\$ 21.53		\$ 920.25	\$ 1,614.75	\$ 2,535.00				
	Post and Rail System for 6" Pipe	lin ft	75	\$ 10.05	\$ 7.35	\$ 2.59	\$ 753.75	\$ 745.50	\$ 1,499.25				
	Spread Topsoil on Berm	cu yds	3050		\$ 16.10		\$ -	\$ 49,105.00	\$ 49,105.00				
	Concrete Spillway & Ramp with Curb												
	Forming	sq ft	1788	\$ 0.82	\$ 7.65		\$ 1,466.16	\$ 13,678.20	\$ 15,144.36				
	Pouring	cu yds	33	\$ -	\$ 25.00	\$ 8.04	\$ -	\$ 1,090.47	\$ 1,090.47				
	Reinforcing	ea	263	\$ 7.40			\$ 1,946.20	\$ -	\$ 1,946.20				
	Concrete Material	cu yds	37	\$ 202.88		\$ 6.15	\$ 7,506.56	\$ 227.55	\$ 7,734.11				
	Division 33 Utilities												
	Utilities									\$ 38,500.00		\$ 38,500.00	\$ 0.51
	Gas	Allow	1	\$ 5,000.00			\$ 5,000.00	\$ -	\$ 5,000.00				
	Electrical	Allow	1	\$ 15,000.00			\$ 15,000.00	\$ -	\$ 15,000.00				
	Water Well	Allow	1	\$ 18,500.00			\$ 18,500.00	\$ -	\$ 18,500.00				
	19000 Contingency (5%)											\$ 371,674.34	\$ 4.90
	Sub-Total									\$5,499,624.46	\$3,112,841.04	\$ 8,612,465.50	\$ 113.58
	PST 7%											\$ 227,039.42	\$ 2.99
	Note: Some Elements are PST Exempt												
	Sub-Total Including PST											\$ 8,839,504.92	\$ 116.58
	GST 5%											\$ 430,623.28	
	TOTAL											\$ 9,270,128.20	

Sask Pork
Appendix C
Farrow Wean Barn Budget
Sample Barn, 1600 Head Farrow, 75825 Square Feet
Prepared by DGH Engineering Ltd.
2017-01-25
REVISED September 19, 2023

Item	Description	Unit	Quantity	Unit Price - Material	Unit Price - Labour	Unit Price - Equipment	Sub-Total Material	Sub-Total Labour & Equipment	Sub-Total Unit	Sub-Total Category	Division Sub- Total Materials	Division Sub- Total Labour & Equipment	Division Total	Cost/sq. ft.
	Division 1 -General Requirements										\$ 44,440.00	\$ 688,847.60	\$ 733,287.60	\$ 9.67
	Design, Engineering, and Construction Support									\$ 65,500.00				
	Design, Engineering, and Construction Support	fee	1		\$ 44,800.00		\$ -	\$ 44,800.00	\$ 44,800.00					
	EMS Design Fees & Certification	fee	1		\$ 20,700.00		\$ -	\$ 20,700.00	\$ 20,700.00					
1300	Administrative Requirements									\$ 616,847.60				\$ 8.14
	Permits	fee	0.01		6,853,862.17		\$ -	\$ 68,538.62	\$ 68,538.62					
	Insurance	fee	0.03		6,853,862.17		\$ -	\$ 205,615.87	\$ 205,615.87					
	Overhead/Administration	allow	0.05		6,853,862.17		\$ -	\$ 342,693.11	\$ 342,693.11					
1400	Quality Requirements	allow	1		\$ 2,500.00		\$ -	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00				\$ 0.03
1500	Temporary Facilities & Controls									\$ 44,440.00				\$ 0.59
	Miscellaneous Hardware & tools/Office Supplies/First Aid	allow	1	\$ 16,940.00			\$ 16,940.00	\$ -	\$ 16,940.00					
	Equipment Rental	allow	1	\$ 27,500.00			\$ 27,500.00	\$ -	\$ 27,500.00					
1700	Execution Requirements	allow	1		\$ 4,000.00		\$ -	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00				\$ 0.05
	Division 3 - Concrete										\$ 808,866.75	\$ 507,008.77	\$ 1,315,875.51	\$ 17.35
3101	Concrete Formwork									\$ 562,026.83				\$ 7.41
	Forms in Place													
	Footings (9"x18") (1.5SFCA/lin ft)	lin ft	3276	\$ 1.71	\$ 3.88	\$ -	\$ 5,601.96	\$ 12,707.60	\$ 18,309.56					
	6' Grade Beam w/Slat Provision One Side	lin ft	476	\$ 9.86	\$ 24.93		\$ 4,695.26	\$ 11,866.68	\$ 16,561.94					
	6' Grade Beam w/Slat Provision Both Sides	lin ft	66	\$ 9.86	\$ 24.93		\$ 651.02	\$ 1,645.38	\$ 2,296.40					
	6' Grade Beam	lin ft	2033	\$ 8.42	\$ 19.44		\$ 17,125.99	\$ 39,521.52	\$ 56,647.51					
	Pit Walls (2' x 4") (4SFCA/lin ft)	lin ft	9991	\$ 2.59	\$ 14.58	\$ -	\$ 25,896.67	\$ 145,668.78	\$ 171,565.45					
	Pit Floors	sq ft	53459	\$ 0.44	\$ 2.21	\$ -	\$ 23,671.65	\$ 118,358.23	\$ 142,029.87					
	Floor	sq ft	28182	\$ 0.44	\$ 2.71	\$ -	\$ 12,478.99	\$ 76,260.49	\$ 88,739.48					
	48"x48"x10" Footing Pad and 8" Pillaster	ea	9	\$ 105.10	\$ 135.42		\$ 945.91	\$ 1,218.82	\$ 2,164.73					
	Bin Pads	sq ft	1063	\$ 0.82	\$ 6.15	\$ -	\$ 871.66	\$ 6,537.45	\$ 7,409.11					
	Aprons	sq ft	130	\$ 0.82	\$ 6.15	\$ -	\$ 106.60	\$ 799.50	\$ 906.10					
	Pour Concrete													
	Footings (9"x18")	cu yds	137	\$ -	\$ 21.50	\$ 5.90	\$ -	\$ 3,753.80	\$ 3,753.80					
	6' Grade Beam w/Slat Provision One Side	cu yds	59		\$ 32.50	\$ 8.85	\$ -	\$ 2,439.65	\$ 2,439.65					
	6' Grade Beam w/Slat Provision Both Sides	cu yds	9	\$ -	\$ 32.50	\$ 8.85	\$ -	\$ 372.15	\$ 372.15					
	6' Grade Beam	cu yds	226		\$ 32.50	\$ 8.85	\$ -	\$ 9,345.10	\$ 9,345.10					
	FIP Pit Walls (2' x 4")	cu yds	247	\$ -	\$ 17.95	\$ 4.93	\$ -	\$ 5,651.36	\$ 5,651.36					
	Pit Floors	cu yds	660	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 20,988.00	\$ 20,988.00					
	Floor	cu yds	348	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 11,066.40	\$ 11,066.40					
	48"x48"x10" Footing Pad and 8" Pillaster	cu yds	6	\$ -	\$ 54.00	\$ 14.80	\$ -	\$ 412.80	\$ 412.80					
	Bin Pads	cu yds	40	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 1,272.00	\$ 1,272.00					
	Aprons	cu yds	3	\$ -	\$ 25.00	\$ 6.80	\$ -	\$ 95.40	\$ 95.40					
3200	Concrete Reinforcement									\$ 83,921.53				\$ 1.11

	2x4 PT Girts, to Concrete	BF	1825	\$ 1.82			\$ 3,321.50	\$ -	\$ 3,321.50											
	2x6 Columns	BF	396	\$ 1.04			\$ 411.84	\$ -	\$ 411.84											
	2x6 Header	BF	272	\$ 1.04			\$ 282.88	\$ -	\$ 282.88											
	2 ply 2x8 Lintel	BF	362	\$ 1.04			\$ 376.48	\$ -	\$ 376.48											
	2 ply 2x10 Lintel	BF	0	\$ 1.21			\$ -	\$ -	\$ -											
	2 ply 2x12 Lintel	BF	0	\$ 1.90			\$ -	\$ -	\$ -											
	2x4 Purlins (incl'd Valleys)	BF	26205	\$ 1.01			\$ 26,467.05	\$ -	\$ 26,467.05											
	2x4 Lateral Bracing	BF	8400	\$ 1.01			\$ 8,484.00	\$ -	\$ 8,484.00											
	2x6 Vertical Sway Bracing	BF	2800	\$ 1.01			\$ 2,828.00	\$ -	\$ 2,828.00											
	2x6 Anchor Bracing	BF	764	\$ 1.01			\$ 771.64	\$ -	\$ 771.64											
	2x6 Blocking under Splice Plates	BF	544	\$ 1.01			\$ 549.44	\$ -	\$ 549.44											
	1x4 Web Nailer	BF	728	\$ 1.22			\$ 888.16	\$ -	\$ 888.16											
	2x4 Ceiling Strapping	BF	25818	\$ 1.01			\$ 26,076.18	\$ -	\$ 26,076.18											
	2x6 Purlins	BF	2184	\$ 1.01			\$ 2,205.84	\$ -	\$ 2,205.84											
	2x6 Heels	BF	2184	\$ 1.01			\$ 2,205.84	\$ -	\$ 2,205.84											
	1x4 Soffit Nailer	BF	1092	\$ 1.22			\$ 1,332.24	\$ -	\$ 1,332.24											
	1x4 Painted Trim Board	BF	1726	\$ 1.22			\$ 2,105.72	\$ -	\$ 2,105.72											
	Soffit Doors, 8'	ea	136	\$ 66.06			\$ 8,984.16	\$ -	\$ 8,984.16											
	2x6 P.T. rough bucks for doors/windows	BF	398	\$ 1.82			\$ 724.36	\$ -	\$ 724.36											
	2x4 P.T. sill plate for doors/windows	BF	62	\$ 1.82			\$ 112.84	\$ -	\$ 112.84											
	Interior Galv. Drip Flashing	lin ft	5183	\$ 1.10			\$ 5,701.30	\$ -	\$ 5,701.30											
	2x2 Recirc duct	BF	6641	\$ 1.22			\$ 8,102.02	\$ -	\$ 8,102.02											
6160	Sheathing																		\$ 103,453.80	\$ 1.36
	1/2" P.T. Plywood Sheathing	sq ft	2738	\$ 2.06			\$ 5,640.28	\$ -	\$ 5,640.28											
	3/8" OSB Sheathing Recirc duct	sq ft	10612	\$ 0.56			\$ 5,942.72	\$ -	\$ 5,942.72											
	3/8" OSB for Attic Smoke Stops (22)	sq ft	54648	\$ 0.56			\$ 30,602.88	\$ -	\$ 30,602.88											
	3/8" OSB to Wall, P.N.	sq ft	31098	\$ 0.56			\$ 17,414.88	\$ -	\$ 17,414.88											
	3/8" OSB to Gables, P.N.	sq ft	2484	\$ 0.56			\$ 1,391.04	\$ -	\$ 1,391.04											
	3/8" OSB to Ceiling, P.N.	sq ft	75825	\$ 0.56			\$ 42,462.00	\$ -	\$ 42,462.00											
6170	Pre-Fabricated Structural Wood																		\$ 328,640.00	\$ 4.33
	Girder Truss	lin ft	185	\$ 55.00			\$ 10,175.00	\$ -	\$ 10,175.00											
	Pre-Fabricated Trusses w 2' Overhang	sq ft	75825	\$ 4.20			\$ 318,465.00	\$ -	\$ 318,465.00											
6220	Framing Labour																		\$ 392,349.92	\$ 5.17
	2x6 Stud Wall @ 24" o/c 9' ht(Incl 2xT.P. & PT B.P.)	lin ft	242	\$ 6.80			\$ -	\$ 1,645.60	\$ 1,645.60											
	2x6 Stud Wall @ 24" o/c 6' ht(Incl 2xT.P. & PT B.P.)	lin ft	2070	\$ 6.80			\$ -	\$ 14,076.00	\$ 14,076.00											
	2x4 Stud Wall @ 24" o/c 6' ht(Incl 2xT.P. & PT B.P.)	lin ft	1206	\$ 6.25			\$ -	\$ 7,537.50	\$ 7,537.50											
	2x4 Stud Wall @ 16" o/c 9' ht(Incl 2xT.P. & PT B.P.)	lin ft	0	\$ 7.80			\$ -	\$ -	\$ -											
	2x4 Girts @ 24"	BF	3651	\$ 1.33			\$ -	\$ 4,863.13	\$ 4,863.13											
	2x4 PT Girts, to Concrete	BF	1825	\$ 1.62			\$ -	\$ 2,956.50	\$ 2,956.50											
	2x6 Columns	BF	396	\$ 0.85			\$ -	\$ 335.02	\$ 335.02											
	2x6 Header	BF	272	\$ 2.34			\$ -	\$ 636.48	\$ 636.48											
	2 ply 2x8 Lintel	BF	362	\$ 1.87			\$ -	\$ 677.66	\$ 677.66											
	2 ply 2x10 Lintel	BF	0	\$ 1.60			\$ -	\$ -	\$ -											
	2 ply 2x12 Lintel	BF	0	\$ 1.42			\$ -	\$ -	\$ -											
	2x4 Purlins (incl'd Valleys)	BF	26205	\$ 1.33			\$ -	\$ 34,905.06	\$ 34,905.06											
	2x4 Lateral Bracing	BF	8400	\$ 1.33			\$ -	\$ 11,188.80	\$ 11,188.80											
	2x6 Vertical Sway Bracing	BF	2800	\$ 1.33			\$ -	\$ 3,729.60	\$ 3,729.60											
	2x6 Anchor Bracing	BF	764	\$ 1.33			\$ -	\$ 1,017.65	\$ 1,017.65											
	2x6 Blocking under Splice Plates	BF	544	\$ 1.83			\$ -	\$ 995.52	\$ 995.52											
	1x4 Web Nailer	BF	728	\$ 2.82			\$ -	\$ 2,050.78	\$ 2,050.78											

	2x4 Ceiling Strapping	BF	25818		\$ 1.44		\$ -	\$ 37,177.92	\$ 37,177.92					
	2x6 Purlins	BF	2184		\$ 0.95		\$ -	\$ 2,063.88	\$ 2,063.88					
	2x6 Heels	BF	2184		\$ 1.69		\$ -	\$ 3,695.33	\$ 3,695.33					
	1x4 Soffit Nailer	BF	1092		\$ 2.81		\$ -	\$ 3,066.34	\$ 3,066.34					
	1x4 Painted Trim Board	BF	1726		\$ 2.00		\$ -	\$ 3,452.00	\$ 3,452.00					
	Soffit Doors, 8'	ea	136		\$ 30.00		\$ -	\$ 4,080.00	\$ 4,080.00					
	2x6 P.T. rough bucks for doors/windows	BF	398		\$ 1.95		\$ -	\$ 776.10	\$ 776.10					
	2x4 P.T. sill plate for doors/windows	BF	62		\$ 1.95		\$ -	\$ 120.90	\$ 120.90					
	Interior Galv. Drip Flashing	lin ft	5183		\$ 1.17		\$ -	\$ 6,064.11	\$ 6,064.11					
	2x3 Recirc duct	BF	6641		\$ 1.88		\$ -	\$ 12,485.08	\$ 12,485.08					
	1/2" P.T. Plywood Sheathing	sq ft	2738		\$ 0.83		\$ -	\$ 2,272.54	\$ 2,272.54					
	3/8" OSB Sheathing Recirc duct	sq ft	10612		\$ 0.69		\$ -	\$ 7,322.28	\$ 7,322.28					
	3/8" OSB for Attic Smoke Stops	sq ft	54648		\$ 0.63		\$ -	\$ 34,428.24	\$ 34,428.24					
	3/8" OSB to Wall, P.N.	sq ft	31098		\$ 0.63		\$ -	\$ 19,591.74	\$ 19,591.74					
	3/8" OSB to Gables, P.N.	sq ft	2484		\$ 0.63		\$ -	\$ 1,564.92	\$ 1,564.92					
	3/8" OSB to Ceiling, P.N.	sq ft	75825		\$ 0.69		\$ -	\$ 52,319.25	\$ 52,319.25					
	Pre-Fabricated Trusses w 2' Overhang	sq ft	75825		\$ 0.80	\$ 0.72	\$ -	\$ 115,254.00	\$ 115,254.00					
	Division 7 - Thermal & Moisture Protection									\$ 218,326.13	\$ 182,872.84	\$ 401,198.97	\$ 5.29	
7210	Building Insulation									\$ 166,579.68			\$ 2.20	
	R30 blow in Insulation	sq ft	75825	\$ 0.82	\$ 0.64	\$ 0.34	\$ 62,176.50	\$ 74,308.50	\$ 136,485.00					
	Insulation Stops	ea	546	\$ 3.94			\$ 2,151.24	\$ -	\$ 2,151.24					
	Perimeter Ins., 2" Polystyrene (R7.69) below grade	sq ft	2738	\$ 1.59			\$ 4,353.42	\$ -	\$ 4,353.42					
	Perimeter Ins., 1 1/2" Polystyrene (R7.69) around perimeter con	sq ft	8214	\$ 1.37			\$ 11,253.18	\$ -	\$ 11,253.18					
	6"x23" Fibreglass Batts Unfaced (R20)	sq ft	12420	\$ 0.93			\$ 11,550.60	\$ -	\$ 11,550.60					
7260	Vapour Retarders									\$ 8,704.84			\$ 0.11	
	Urethane Sill Gasket	lin ft	3276	\$ 0.24			\$ 786.24	\$ -	\$ 786.24					
	6mil Poly Vapour Barrier	C. sq ft	1156	\$ 6.85			\$ 7,918.60	\$ -	\$ 7,918.60					
7400	Roofing & Siding Panels									\$ 116,309.21			\$ 1.53	
	10' Wall Metal Cladding	lin ft	4570	\$ 4.38			\$ 20,016.60	\$ -	\$ 20,016.60					
	40' Roof Metal Cladding	lin ft	7280	\$ 4.38			\$ 31,886.40	\$ -	\$ 31,886.40					
	35' Roof Metal Cladding	lin ft	6370	\$ 4.38			\$ 27,900.60	\$ -	\$ 27,900.60					
	18' Wall Gable Metal Cladding	lin ft	864	\$ 4.38			\$ 3,784.32	\$ -	\$ 3,784.32					
	2' Fascia	lin ft	728	\$ 4.90			\$ 3,567.20	\$ -	\$ 3,567.20					
	2' Soffit	sq ft	2184	\$ 1.05			\$ 2,293.20	\$ -	\$ 2,293.20					
	J Trim	lin ft	3250	\$ 1.26			\$ 4,095.00	\$ -	\$ 4,095.00					
	Rake Flashing	lin ft	1100	\$ 1.94			\$ 2,134.00	\$ -	\$ 2,134.00					
	Divider Flashing	lin ft	280	\$ 1.26			\$ 352.80	\$ -	\$ 352.80					
	Base Drip Flashing	lin ft	1370	\$ 1.26			\$ 1,726.20	\$ -	\$ 1,726.20					
	Outside Corner	lin ft	40	\$ 3.20			\$ 128.00	\$ -	\$ 128.00					
	Fascia	lin ft	1100	\$ 1.84			\$ 2,024.00	\$ -	\$ 2,024.00					
	Gable Flashing	lin ft	300	\$ 2.99			\$ 897.00	\$ -	\$ 897.00					
	Ridge Cap	lin ft	550	\$ 3.15			\$ 1,732.50	\$ -	\$ 1,732.50					
	Butyl Tape, 50' roll	ea	273	\$ 8.95			\$ 2,443.35	\$ -	\$ 2,443.35					
	Foam Closures	ea	368	\$ 4.28			\$ 1,575.04	\$ -	\$ 1,575.04					
	#10 x 1 1/2" Pre-painted Screws w/neoprene washer	ea	57300	\$ 0.13			\$ 7,449.00	\$ -	\$ 7,449.00					
	#12 x 5/8" Pre-painted Stitch Screw w/neoprene washer	ea	12800	\$ 0.18			\$ 2,304.00	\$ -	\$ 2,304.00					
7900	Joint Sealers									\$ 1,040.90			\$ 0.01	
	Accoustical Sealant, 3/4" dia	c. lin ft	70	\$ 14.87			\$ 1,040.90	\$ -	\$ 1,040.90					
7990	Installation of Insulation and Cladding									\$ 108,564.34			\$ 1.43	
	Insulation Stops	ea	546	\$ 1.50			\$ -	\$ 819.00	\$ 819.00					

	Perimeter Ins., 2" Polystyrene (R7.69)	sq ft	2738		\$ 0.64		\$ -	\$ 1,752.32	\$ 1,752.32						
	Perimeter Ins., 1 1/2" Polystyrene (R7.69) around perimeter con	sq ft	8214		\$ 0.64		\$ -	\$ 5,256.96	\$ 5,256.96						
	6"x23" Fibreglass Batts Unfaced (R20)	sq ft	12420		\$ 0.35		\$ -	\$ 4,347.00	\$ 4,347.00						
	Urethane Sill Gasket	lin ft	3276		\$ 0.20		\$ -	\$ 655.20	\$ 655.20						
	6mil Poly Vapour Barrier	C. sq ft	1156		\$ 12.65		\$ -	\$ 14,623.40	\$ 14,623.40						
	10' Wall Metal Cladding	lin ft	4570		\$ 4.58		\$ -	\$ 20,930.60	\$ 20,930.60						
	40' Roof Metal Cladding	lin ft	7280		\$ 3.49		\$ -	\$ 25,407.20	\$ 25,407.20						
	35' Roof Metal Cladding	lin ft	6370		\$ 3.49		\$ -	\$ 22,231.30	\$ 22,231.30						
	18' Wall Gable Metal Cladding	lin ft	864		\$ 4.58		\$ -	\$ 3,957.12	\$ 3,957.12						
	2' Facsia	lin ft	728		\$ 4.58		\$ -	\$ 3,334.24	\$ 3,334.24						
	Accoustical Sealant, 3/4" dia	c. lin ft	70		\$ 75.00		\$ -	\$ 5,250.00	\$ 5,250.00						
	Division 8 - Doors & Windows											\$ 51,427.50	\$ 15,749.66	\$ 67,177.16	\$ 0.89
8100	Steel Doors & Frame											\$ 51,356.60			
	Steel Door, Insulated, 18 ga, 3'0" x 6' 8" with Frame/Hardware	ea	1	\$ 2,864.95	\$ 578.50		\$ 2,864.95	\$ 578.50	\$ 3,443.45						
	Steel Double Door, Insulated, 18 ga, 6'0" x 6' 8" with Frame/Hardware	ea	1	\$ 3,479.95	\$ 641.00		\$ 3,479.95	\$ 641.00	\$ 4,120.95						
	Emergency Exits	ea	18	\$ 1,061.90	\$ 389.75		\$ 19,114.20	\$ 7,015.50	\$ 26,129.70						
	Interior Office Door c/w Frame and Hardware	ea	15	\$ 1,013.00	\$ 164.50		\$ 15,195.00	\$ 2,467.50	\$ 17,662.50						
8200	Wood & Plastic Doors											\$ 13,825.56			\$ 0.18
	Site Built Wood Door 3'0" x 6'8"	ea	28	\$ 225.00	\$ 135.00		\$ 6,300.00	\$ 3,780.00	\$ 10,080.00						
	Wood Frame, 5/4x4 9/16" deep	lin ft	364	\$ 8.10	\$ 2.19		\$ 2,948.40	\$ 797.16	\$ 3,745.56						
8300	Specialty Doors											\$ 1,995.00			\$ 0.03
	3'x7' Overhead Door, 24 ga. Steel, chain hoist operated	ea	1	\$ 1,525.00	\$ 470.00		\$ 1,525.00	\$ 470.00	\$ 1,995.00						
	Division 9 - Finishes											\$ 36,698.06	\$ 107,714.18	\$ 144,412.24	\$ 1.90
9100	Metal Support Assemblies											\$ 3,880.80			\$ 0.05
	5/16" T-Bar Support System, 2'x4' grid	sq ft	1980	\$ 1.37	\$ 0.59		\$ 2,712.60	\$ 1,168.20	\$ 3,880.80						
9250	Gypsum Board											\$ 29,673.84			\$ 0.39
	5/8" FR Drywall, Moisture Resistant	sq ft	8412	\$ 1.09			\$ 9,169.08	\$ -	\$ 9,169.08						
	5/8" Drywall	sq ft	7792	\$ 0.74			\$ 5,766.08	\$ -	\$ 5,766.08						
	Boarding, Walls	sq ft	14224	\$ -	\$ 0.47		\$ -	\$ 6,685.28	\$ 6,685.28						
	Boarding, Ceilings	sq ft	1980	\$ -	\$ 0.52		\$ -	\$ 1,029.60	\$ 1,029.60						
	Tape & Finish, Walls	sq ft	7792	\$ -	\$ 0.50		\$ -	\$ 3,896.00	\$ 3,896.00						
	Firetape, Walls	sq ft	8412	\$ 0.05	\$ 0.15		\$ 420.60	\$ 1,261.80	\$ 1,682.40						
	Tape & Finish, Ceilings	sq ft	1980	\$ -	\$ 0.73		\$ -	\$ 1,445.40	\$ 1,445.40						
9500	Ceiling											\$ 6,811.20			\$ 0.09
	5/8" Mineral Fibre Tiles	sq ft	1980	\$ 2.69	\$ 0.75		\$ 5,326.20	\$ 1,485.00	\$ 6,811.20						
9910	Painting											\$ 104,046.40			\$ 1.37
	Paint walls & ceilings	sq ft	114715		\$ 0.76		\$ -	\$ 87,183.40	\$ 87,183.40						
	Paint Doors	ea	63	\$ 20.50	\$ 56.50		\$ 1,291.50	\$ 3,559.50	\$ 4,851.00						
	Oil Primer	5 gal	36	\$ 102.00	\$ -		\$ 3,672.00	\$ -	\$ 3,672.00						
	Latex Paint	5 gal	60	\$ 139.00	\$ -		\$ 8,340.00	\$ -	\$ 8,340.00						
	Division 10 - Specialties											\$ 2,673.00	\$ 344.30	\$ 3,017.30	\$ 0.04
10520	Fire Protection Specialties											\$ 3,017.30			
	All Purpose 9 1/2 lbs Extinguisher	ea	22	\$ 121.50			\$ 2,673.00	\$ -	\$ 2,673.00						
	Mount Extinguishers	ea	22		\$ 15.65		\$ -	\$ 344.30	\$ 344.30						
	Division 11 - Building Equipment											\$ 2,619,529.21	\$ 282,016.52	\$ 2,901,545.73	\$ 38.27
11800	Barn Equipment														\$ -
	Penning, Stalls & Flooring				\$ -							\$ 1,116,602.80			\$ 14.73
	Boar Pens	ea	3	\$ 631.13			\$ 1,893.38		\$ 1,893.38						
	Gilt Stalls, black steel	ea	215	\$ 499.49			\$ 107,389.92		\$ 107,389.92						
	PVC Plank 2" x 38" x 22'	ea	129	\$ 447.34			\$ 57,707.04		\$ 57,707.04						

PVC Bullnose, 2"x32"	ea	76	\$ 15.37		\$ 1,168.18	\$ 1,168.18				
PVC Droprod 3/4"x20'	ea	16	\$ 40.45		\$ 647.19	\$ 647.19				
1/4" SS Bolt/Washers/Lock Nuts	ea	350	\$ 0.73		\$ 257.04	\$ 257.04				
SS 6 Loop U-channel Post 38" w/Plate	ea	28	\$ 87.37		\$ 2,446.38	\$ 2,446.38				
SS 3 Loop U-channel Post 38" w/Plate	ea	13	\$ 89.79		\$ 1,167.29	\$ 1,167.29				
SS 3-way U-Channel Post 38" w/Plate	ea	11	\$ 122.31		\$ 1,345.42	\$ 1,345.42				
SS 4-way U-Channel Post 38" w/Plate	ea	51	\$ 142.70		\$ 7,277.51	\$ 7,277.51				
SS U-Channel Post 38" w/Plate	ea	143	\$ 71.19		\$ 10,180.30	\$ 10,180.30				
SS Wall U-Channel Post, 38"	ea	41	\$ 63.75		\$ 2,613.75	\$ 2,613.75				
SS 3-Loop Wall Bracket	ea	5	\$ 57.44		\$ 287.22	\$ 287.22				
3/8" SS Lag Bolts	ea	150	\$ 2.18		\$ 326.40	\$ 326.40				
SS T-Bolt w/nuts and washers	ea	1260	\$ 7.46		\$ 9,398.03	\$ 9,398.03				
Nursery Flooring	ea	1584	\$ 7.89		\$ 12,497.76	\$ 12,497.76				
Farrow Crates (c/w flooring & creep penning)	ea	400	\$ 2,250.00		\$ 900,000.00	\$ 900,000.00				
Animal HVAC							\$ 249,792.40			\$ 3.29
Exhaust Fan - Better Air LPF-2400	ea	11	\$ 893.70		\$ 9,830.70	\$ 9,830.70				
Exhaust Fan - Better Air LPF-2800	ea	1	\$ 1,071.00		\$ 1,071.00	\$ 1,071.00				
Exhaust Fan - Better Air LPF-3800	ea	3	\$ 1,334.70		\$ 4,004.10	\$ 4,004.10				
Exhaust Fan - Better Air LPF-4800	ea	3	\$ 1,994.40		\$ 5,983.20	\$ 5,983.20				
Exhaust Fan - Better Air LPF-2000	ea	5	\$ 782.10		\$ 3,910.50	\$ 3,910.50				
Exhaust Fan - Better Air LPF-1000	ea	3	\$ 524.70		\$ 1,574.10	\$ 1,574.10				
Exhaust Fan - Better Air LPF-1200	ea	2	\$ 564.30		\$ 1,128.60	\$ 1,128.60				
Exhaust Fan - Better Air LPF-1400	ea	22	\$ 570.60		\$ 12,553.20	\$ 12,553.20				
Exhaust Fan - Better Air LPF-1600	ea	2	\$ 640.80		\$ 1,281.60	\$ 1,281.60				
Exhaust Fan - Better Air LPF-1800	ea	1	\$ 692.10		\$ 692.10	\$ 692.10				
Exhaust Fan - Better AirFW-6020	ea	3	\$ 2,886.30		\$ 8,658.90	\$ 8,658.90				
Recirc Fan Better Air LCF 1200	ea	2	\$ 434.70		\$ 869.40	\$ 869.40				
Recirc Fan Better Air LCF 1400	ea	1	\$ 469.80		\$ 469.80	\$ 469.80				
Recirc Fan Better Air LCF 1800	ea	21	\$ 545.40		\$ 11,453.40	\$ 11,453.40				
Recirc Fan Better Air LCF 2400	ea	5	\$ 675.90		\$ 3,379.50	\$ 3,379.50				
Recirc. Fan LCF-2000	ea	3	\$ 585.90		\$ 1,757.70	\$ 1,757.70				
16/18" Backdraft Damper	ea	2	\$ 120.60		\$ 241.20	\$ 241.20				
20/24" Backdraft Damper	ea	3	\$ 157.50		\$ 472.50	\$ 472.50				
Winter Closure	ea	33	\$ 213.30		\$ 7,038.90	\$ 7,038.90				
White Silicone	ea	30	\$ 5.64		\$ 169.29	\$ 169.29				
#10 x 1 1/2" SS Screws	ea	5000	\$ 0.18		\$ 900.00	\$ 900.00				
Air Inlet - Better Air SF-1200	ea	284	\$ 118.35		\$ 33,611.40	\$ 33,611.40				
Air inlet actuator	ea	21	\$ 535.50		\$ 11,245.50	\$ 11,245.50				
SS cable	lin. Ft.	4600	\$ 1.17		\$ 5,382.00	\$ 5,382.00				
Galv. Cable Clamp	ea	268	\$ 3.15		\$ 844.20	\$ 844.20				
Azuma nuts	ea	568	\$ 2.30		\$ 1,303.56	\$ 1,303.56				
Air inlet counterweight	ea	42	\$ 34.62		\$ 1,454.17	\$ 1,454.17				
Hanging pulley	ea	80	\$ 13.50		\$ 1,080.00	\$ 1,080.00				
Flush mount pulley	ea	97	\$ 10.80		\$ 1,047.60	\$ 1,047.60				
Hand Winch w/bracket and bolts	ea	21	\$ 112.50		\$ 2,362.50	\$ 2,362.50				
Space Heater (60/100 MBTU)	ea	3	\$ 900.00		\$ 2,700.00	\$ 2,700.00				
Space Heater (250 MBTUH)	ea	17	\$ 1,687.50		\$ 28,687.50	\$ 28,687.50				
Heat Lamps	ea	400	\$ 37.01		\$ 14,803.56	\$ 14,803.56				
Heat Pads	ea	390	\$ 127.93		\$ 49,891.67	\$ 49,891.67				
Master Heat Pads	ea	10	\$ 323.51		\$ 3,235.06	\$ 3,235.06				
Back-up thermostat	ea	16	\$ 99.00		\$ 1,584.00	\$ 1,584.00				

Manual fan control	ea	16	\$ 155.00		\$ 2,480.00	\$ 2,480.00					
Temperature Probe with Cable	ea	16	\$ 665.00		\$ 10,640.00	\$ 10,640.00					
Watering System									\$ 107,045.07		\$ 1.41
Water Meter	ea	1	\$ 1,000.00		\$ 1,000.00	\$ 1,000.00					
1 1/2" camlock coupler FCCxHB	ea	20	\$ 15.27		\$ 305.37	\$ 305.37					
1 1/2" camlock coupler MCCxFNT	ea	20	\$ 3.62		\$ 72.36	\$ 72.36					
1 1/2" PVC sch40 end cap	ea	5	\$ 1.11		\$ 5.54	\$ 5.54					
1 1/2" PVC sch40 true union	ea		\$ 18.74		\$ -	\$ -					
1 1/2" PVC sc40 true union ball valve	ea	4	\$ 61.57		\$ 246.29	\$ 246.29					
1 1/2" PVC sch40 45 degree elbow	ea	20	\$ 2.46		\$ 49.14	\$ 49.14					
1 1/2" PVC sch40 90 degree elbow	ea	24	\$ 1.74		\$ 41.80	\$ 41.80					
1 1/2" PVC sch40 adapter SxMNT	ea	20	\$ 1.32		\$ 26.46	\$ 26.46					
1 1/2" PVC sch40 ball valve	ea	21	\$ 14.82		\$ 311.28	\$ 311.28					
1 1/2" PVC sch40 coupling Sx5	ea	50	\$ 2.74		\$ 137.03	\$ 137.03					
1 1/2" PVC sch40 pipe (linear feet)	ea	1200	\$ 3.94		\$ 4,730.40	\$ 4,730.40					
1 1/2" PVC sch40 tee	ea	20	\$ 2.34		\$ 46.71	\$ 46.71					
1 1/2" PVC standoff clamp	ea	300	\$ 5.21		\$ 1,563.30	\$ 1,563.30					
1 1/2" x 3/4" PVC sch40 tee	ea	32	\$ 3.81		\$ 121.82	\$ 121.82					
1/4" braided hose (linear feet)	ea	1650	\$ 0.54		\$ 891.00	\$ 891.00					
1/4" S.S. hose clamps	ea	1036	\$ 0.49		\$ 512.20	\$ 512.20					
24v transformer for solenoid valve	ea	24	\$ 28.32		\$ 679.68	\$ 679.68					
3/4" PVC sch40 end cap	ea	149	\$ 1.03		\$ 152.87	\$ 152.87					
3/4" PVC sch40 90 degree elbow	ea	142	\$ 0.55		\$ 78.60	\$ 78.60					
3/4" PVC sch40 ball valve SxS	ea	564	\$ 4.85		\$ 2,733.43	\$ 2,733.43					
3/4" PVC sch40 coupling SxS	ea	225	\$ 0.47		\$ 106.31	\$ 106.31					
3/4" PVC sch40 pipe (linear feet)	ea	8100	\$ 1.59		\$ 12,903.30	\$ 12,903.30					
3/4" PVC sch40 SxMT adapter	ea	48	\$ 0.51		\$ 24.62	\$ 24.62					
3/4" PVC sch40 tee	ea	681	\$ 0.68		\$ 459.68	\$ 459.68					
3/4" PVC sch40 true union	ea		\$ 5.49		\$ -	\$ -					
3/4" PVC sch40 true union ball valve	ea	48	\$ 39.69		\$ 1,905.12	\$ 1,905.12					
3/4" PVC standoff clamp	ea	2100	\$ 2.67		\$ 5,613.30	\$ 5,613.30					
PVC glue	ea	16	\$ 22.77		\$ 364.39	\$ 364.39					
PVC primer	ea	16	\$ 15.01		\$ 240.19	\$ 240.19					
Reducing adapter, 1/2" MNT x 1/4" hose barb	ea	518	\$ 4.04		\$ 2,090.91	\$ 2,090.91					
Reducing adapter, 3/4" slip x 1/4" hose barb	ea	518	\$ 2.17		\$ 1,125.87	\$ 1,125.87					
Sow Dripper	ea	400	\$ 1.28		\$ 510.00	\$ 510.00					
Solenoid valves	ea	24	\$ 40.55		\$ 973.20	\$ 973.20					
Fire hose (linear feet)	ea	300	\$ 3.81		\$ 1,142.10	\$ 1,142.10					
Spray Nozzle	ea	4	\$ 20.13		\$ 80.51	\$ 80.51					
36" Double Drinker w/Nipples	ea	118	\$ 60.41		\$ 7,128.68	\$ 7,128.68					
Teflon Tape	ea	24	\$ 1.50		\$ 35.96	\$ 35.96					
#8x3" SS Screws	ea	5000	\$ 0.28		\$ 1,400.00	\$ 1,400.00					
Medicator	ea	1	\$ 902.37		\$ 902.37	\$ 902.37					
5% allowance for extras & modifications	ea	0.05	\$ 1,108.61		\$ 55.43	\$ 55.43					
1/2" sch80 galv steel pipe (linear feet)	ea	2260	\$ 5.45		\$ 12,317.00	\$ 12,317.00					
3/4" sch80 galv steel pipe (linear feet)	ea	600	\$ 6.60		\$ 3,960.00	\$ 3,960.00					
1/2" sch80 galv steel 90 degree elbow	ea	40	\$ 6.96		\$ 278.40	\$ 278.40					
1/2" sch80 galv steel tee	ea	17	\$ 15.90		\$ 270.30	\$ 270.30					
1/2" sch80 galv steel ball valves	ea	60	\$ 39.00		\$ 2,340.00	\$ 2,340.00					
3/4" sch80 galv steel ball valves	ea	3	\$ 71.00		\$ 213.00	\$ 213.00					
3/4"x 1/2 "sch80 galv steel tee	ea	20	\$ 85.08		\$ 1,701.53	\$ 1,701.53					

1/2" sch80 galv steel coupling	ea	120	\$ 9.66		\$ 1,159.20	\$ 1,159.20							
1/2" sch80 galv steel union	ea	18	\$ 32.40		\$ 583.20	\$ 583.20							
1/2" aluminum long shank pipe hangers	ea	750	\$ 5.78		\$ 4,335.00	\$ 4,335.00							
3/4" sch80 galv steel 90 degree elbow	ea	12	\$ 8.40		\$ 100.80	\$ 100.80							
3/4" sch80 galv steel coupling	ea	40	\$ 11.34		\$ 453.60	\$ 453.60							
3/4" sch80 galv steel union	ea	4	\$ 37.80		\$ 151.20	\$ 151.20							
3/4" End Cap	ea	2	\$ 9.54		\$ 19.08	\$ 19.08							
Pressure washer drops	ea	43	\$ 75.00		\$ 3,225.00	\$ 3,225.00							
#10x3" SS Screws	ea	1500	\$ 0.42		\$ 630.00	\$ 630.00							
Teflon Tape	ea	50	\$ 0.81		\$ 40.54	\$ 40.54							
10 HP Pressure Washer	ea	1	\$ 24,500.00		\$ 24,500.00	\$ 24,500.00							
Feed System			\$ -			\$ -			\$ 962,754.41				\$ 12.70
Boot bin	ea	8	\$ 62.26		\$ 498.05	\$ 498.05							
Bin Unloader	ea	8	\$ 466.07		\$ 3,728.59	\$ 3,728.59							
PVC Tubing (10 ft Tube)	ea	370	\$ 32.71		\$ 12,101.89	\$ 12,101.89							
Auger Flighting	lin ft	3650	\$ 4.24		\$ 15,477.28	\$ 15,477.28							
Elbow	ea	11	\$ 27.48		\$ 302.32	\$ 302.32							
Tube Clamp	ea	22	\$ 4.98		\$ 109.59	\$ 109.59							
Flex Auger Tube Spacer Shim	ea	22	\$ 6.90		\$ 151.72	\$ 151.72							
PVC Coupler	ea	400	\$ 6.25		\$ 2,498.04	\$ 2,498.04							
Drop Kit	ea	646	\$ 17.52		\$ 11,318.11	\$ 11,318.11							
3/4 HP Feed Motor	ea	50	\$ 647.07		\$ 32,353.63	\$ 32,353.63							
1 HP Feed Motor	ea	5	\$ 733.09		\$ 3,665.47	\$ 3,665.47							
Feedlines Extension Unit	ea	2	\$ 501.27		\$ 1,002.55	\$ 1,002.55							
Control Unit	ea	55	\$ 257.29		\$ 14,150.86	\$ 14,150.86							
Proximity Sensor	ea	55	\$ 174.11		\$ 9,576.02	\$ 9,576.02							
3 1/2" Plastic Drop Tubes (12' Length)	ea	216	\$ 31.27		\$ 6,755.21	\$ 6,755.21							
Wall Seal Plate and Gasket	ea	11	\$ 69.51		\$ 764.61	\$ 764.61							
PVC glue	ea	24	\$ 16.87		\$ 404.88	\$ 404.88							
PVC primer	ea	24	\$ 11.12		\$ 266.88	\$ 266.88							
3/16" Zinc Plated Chain	lin ft	1500	\$ 1.31		\$ 1,965.00	\$ 1,965.00							
2" Plated S Hook	ea	500	\$ 0.69		\$ 345.00	\$ 345.00							
1/4" x 3 1/4" SS Screwhook	ea	500	\$ 3.50		\$ 1,750.00	\$ 1,750.00							
Feed System Time Clock	ea	3	\$ 514.56		\$ 1,543.68	\$ 1,543.68							
SS Trough	ea	360	\$ 20.96		\$ 7,545.15	\$ 7,545.15							
SS Feeders, Wet/Dry, 2 spc, 2 side	ea	5	\$ 523.60		\$ 2,618.00	\$ 2,618.00							
Boar Feeder	ea	3	\$ 349.99		\$ 1,049.96	\$ 1,049.96							
Electronic Sow Feeders	package	1	\$ 794,464.61		\$ 794,464.61	\$ 794,464.61							
1.4 Tonne Feed Bin	ea	1	\$ 2,839.46		\$ 2,839.46	\$ 2,839.46							
5.2 Tonne Feed Bin	ea	2	\$ 3,398.61		\$ 6,797.22	\$ 6,797.22							
28.7 Tonne Feed Bin	ea	1	\$ 10,168.94		\$ 10,168.94	\$ 10,168.94							
22.64 tonne Feed Bins	ea	2	\$ 8,270.84		\$ 16,541.69	\$ 16,541.69							
Lift Station			\$ -			\$ -			\$ 44,305.44				\$ 0.58
5' x 36" Concrete Well Cribbing	ea	3	\$ 583.20		\$ 1,749.60	\$ 1,749.60							
5' Concrete Well Base	ea	1	\$ 704.70		\$ 704.70	\$ 704.70							
5' Concrete Top	ea	1	\$ 324.00		\$ 324.00	\$ 324.00							
ITT Flygt 10HP Submersible Pump w/controls, starter	ea	1	\$ 34,800.00		\$ 34,800.00	\$ 34,800.00							
3/16" SS Cable	lin ft	25	\$ 1.03		\$ 25.75	\$ 25.75							
3/16" SS Clamp	ea	4	\$ 9.24		\$ 36.96	\$ 36.96							
Discharge Elbow for 10HP Pump	ea	1	\$ 2,514.26		\$ 2,514.26	\$ 2,514.26							
Float w/6m cable	ea	3	\$ 292.03		\$ 876.09	\$ 876.09							

	SS guide Rails	ea	2	\$ 537.04		\$ 1,074.08		\$ 1,074.08					
	2000lb Winch on Stand	ea	1	\$ 1,950.00		\$ 1,950.00		\$ 1,950.00					
	Bolts and Parts Allowance	ea	1	\$ 250.00		\$ 250.00		\$ 250.00					
	Sewer Pipe			\$ -				\$ -	\$ 75,061.73				\$ 0.99
	10" Ultra-rib Pipe	lin ft	800	\$ 18.35		\$ 14,680.00		\$ 14,680.00					
	10" U-R 45 degree Elbow	ea	8	\$ 613.24		\$ 4,905.92		\$ 4,905.92					
	10"x8" U-R Wye	ea	9	\$ 768.30		\$ 6,914.70		\$ 6,914.70					
	10"x8" U-R Tee	ea	9	\$ 426.30		\$ 3,836.70		\$ 3,836.70					
	10" U-R Wye	ea	5	\$ 948.26		\$ 4,741.30		\$ 4,741.30					
	8" U-R x 6" SDR35 Adapter	ea	16	\$ 305.31		\$ 4,884.96		\$ 4,884.96					
	8" Ultra-rib Tee	ea	20	\$ 383.52		\$ 7,670.40		\$ 7,670.40					
	8" Ultra-rib 45 Elbow	ea	9	\$ 263.67		\$ 2,373.03		\$ 2,373.03					
	8" Ultra-rib pipe	lin ft	1600	\$ 11.37		\$ 18,196.80		\$ 18,196.80					
	8" Pit Plugs	ea	28	\$ 32.00		\$ 896.00		\$ 896.00					
	6" SRD35 Pipe	lin ft	128	\$ 12.27		\$ 1,570.56		\$ 1,570.56					
	6" SDR35 45 degree Elbow	ea	16	\$ 56.69		\$ 907.04		\$ 907.04					
	6" SDR 35 Union	ea	16	\$ 75.95		\$ 1,215.20		\$ 1,215.20					
	6" SDR35 90 degree Elbow	ea	32	\$ 70.91		\$ 2,269.12		\$ 2,269.12					
	Misc			\$ -				\$ -	\$ 63,967.36				\$ 0.84
	Alarm System	ea	1	\$ 4,500.00		\$ 4,500.00		\$ 4,500.00					
	Load-out Ramp	ea	1	\$ 2,240.00		\$ 2,240.00		\$ 2,240.00					
	Barn Controls System (Ventilation, Heat, Feed)	ea	1	\$ 55,250.00		\$ 55,250.00		\$ 55,250.00					
	Stationary Weigh Scale	ea	1	\$ 1,717.36		\$ 1,717.36		\$ 1,717.36					
	Load Cells, 500lbs	ea	4	\$ 65.00		\$ 260.00		\$ 260.00					
11850	Equipment Installation								\$ 282,016.52				\$ 3.72
	Install Penning	lin ft	2800	\$ 7.78		\$ 21,784.00		\$ 21,784.00					
	Install Stalls	ea	215	\$ 40.84		\$ 8,780.60		\$ 8,780.60					
	Install Farrow Crates, complete with creep, flooring, access	ea	400	\$ 157.63		\$ 63,052.00		\$ 63,052.00					
	Install Nursery Flooring	sq ft	1584	\$ 2.36		\$ 3,738.24		\$ 3,738.24					
	Install Exhaust & Recirculation Fans	ea	88	\$ 9.72		\$ 855.36		\$ 855.36					
	Install Air Inlets	ea	284	\$ 9.72		\$ 2,760.48		\$ 2,760.48					
	Install Inlet Actuators	ea	21	\$ 9.72		\$ 204.12		\$ 204.12					
	Install Heaters	ea	20	\$ 110.16		\$ 2,203.20		\$ 2,203.20					
	Install Control System	ea	1	\$ 7,165.00		\$ 7,165.00		\$ 7,165.00					
	Install Back-up Thermostats	ea	16	\$ 95.00		\$ 1,520.00		\$ 1,520.00					
	Install Manual Fan Controls	ea	16	\$ 95.00		\$ 1,520.00		\$ 1,520.00					
	Install Waterlines	lin ft	9300	\$ 4.08		\$ 37,944.00		\$ 37,944.00					
	Install Drinkers	ea	118	\$ 19.44		\$ 2,293.92		\$ 2,293.92					
	Install HPW Pipe	lin ft	2860	\$ 6.29		\$ 17,989.40		\$ 17,989.40					
	Install Pressure Washer	ea	1	\$ 760.00		\$ 760.00		\$ 760.00					
	Install Feed Lines	lin ft	3650	\$ 6.80		\$ 24,820.00		\$ 24,820.00					
	Install Feed Motors	ea	60	\$ 97.20		\$ 5,832.00		\$ 5,832.00					
	Install Feeders	ea	5	\$ 32.40		\$ 162.00		\$ 162.00					
	Install SS Trough	lin ft	360	\$ 9.31		\$ 3,351.60		\$ 3,351.60					
	Install ESF	ea	30	\$ 630.52		\$ 18,915.60		\$ 18,915.60					
	Install Feed Bins	ea	6	\$ 1,440.00		\$ 8,640.00		\$ 8,640.00					
	Install Lift Station	ea	1	\$ 4,440.00		\$ 4,440.00		\$ 4,440.00					
	Install Sewer Pipe	lin ft	2300	\$ 16.75		\$ 38,525.00		\$ 38,525.00					
	Install Alarms	ea	1	\$ 2,600.00		\$ 2,600.00		\$ 2,600.00					
	Install Load-out Ramp	ea	1	\$ 960.00		\$ 960.00		\$ 960.00					
	Install Scale	ea	1	\$ 1,200.00		\$ 1,200.00		\$ 1,200.00					

	Strip Top Soil	cu yds	7200			\$ 4.96	\$ -	\$ 35,712.00	\$ 35,712.00				
	Excavate Cells and Backfill to Berms	cu yds	18550			\$ 6.48	\$ -	\$ 120,204.00	\$ 120,204.00				
	High Density PolyEthylene Liner	sq ft	132679	\$ 1.02	\$ 0.44		\$ 135,332.58	\$ 58,378.76	\$ 193,711.34				
	6" Pipe to lagoon	lin ft	75	\$ 12.27	\$ 21.53		\$ 920.25	\$ 1,614.75	\$ 2,535.00				
	Post and Rail System for 6" Pipe	lin ft	75	\$ 10.05	\$ 7.35	\$ 2.59	\$ 753.75	\$ 745.50	\$ 1,499.25				
	Spread Topsoil on Berm	cu yds	3050		\$ 16.10		\$ -	\$ 49,105.00	\$ 49,105.00				
	Concrete Spillway & Ramp with Curb												
	Forming	sq ft	1788	\$ 0.82	\$ 7.65		\$ 1,466.16	\$ 13,678.20	\$ 15,144.36				
	Pouring	cu yds	33	\$ -	\$ 25.00	\$ 8.04	\$ -	\$ 1,090.47	\$ 1,090.47				
	Reinforcing	ea	263	\$ 7.40			\$ 1,946.20	\$ -	\$ 1,946.20				
	Concrete Material	cu yds	37	\$ 220.75		\$ 6.15	\$ 8,167.75	\$ 227.55	\$ 8,395.30				
	Division 33 Utilities									\$ 38,500.00		\$ 38,500.00	\$ 0.51
	Utilities									\$ 38,500.00			
	Gas	Allow	1	\$ 5,000.00			\$ 5,000.00	\$ -	\$ 5,000.00				
	Electrical	Allow	1	\$ 15,000.00			\$ 15,000.00	\$ -	\$ 15,000.00				
	Water Well	Allow	1	\$ 18,500.00			\$ 18,500.00	\$ -	\$ 18,500.00				
	19000 Contingency (5%)											\$ 373,535.49	\$ 4.93
	Sub-Total									\$5,536,142.70	\$3,116,068.18	\$ 8,652,210.88	\$ 114.11
	PST 6%											\$ 335,331.31	\$ 4.42
	Sub-Total Including PST											\$ 8,987,542.19	\$ 118.53
	GST 5%											\$ 432,610.54	
	TOTAL											\$ 9,420,152.73	