



# Sprung Structures

A Better Way To Build

Rapid Construction. Design Flexibility. Performance & Durability. Lower Overall Costs.



## Waterford Farms

Strathmore, Alberta  
Shrimp Farms



### Project Overview:

**Client:** Waterford Farms (formally Rocky Mountain Shrimp), Strathmore, Alberta

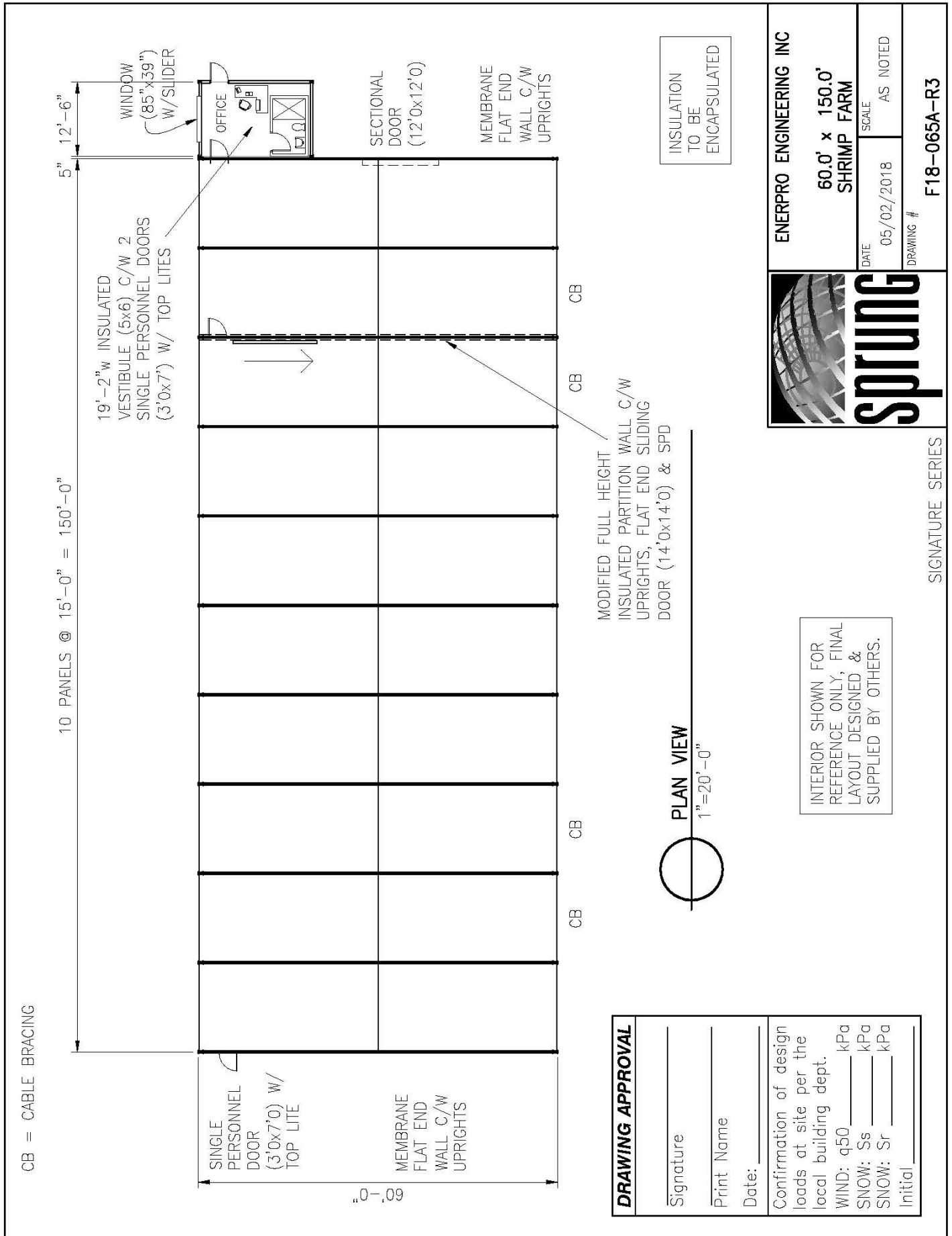
**Challenge:** Waterford Farms required a new facility to house their new state-of-the-art Shrimp growing farm as a pilot project. Knowing that they would have to control the temperature within a 3 to 4-degree variance and would have a high moisture content due to the open water tanks the building envelope had to be constructed in a manner to meet these requirements. With a limited budget to get the project off the ground our Sprung solution that included our encapsulated insulation system provided a much higher quality structure over a conventional steel building.

**Solution:** 60' wide by 150' long with 8' leg extensions, encapsulated insulation

**Results:** The structure is performing exactly as expected. Our superior encapsulated insulation system and airtight envelope allows Waterford Farms to keep the interior temperature at the optimal climate required to grow and harvest their shrimp. The facility was such a success that plans are in the works for an expansion at this location and a second location in Vancouver is expected to get under way in the summer of 2020.

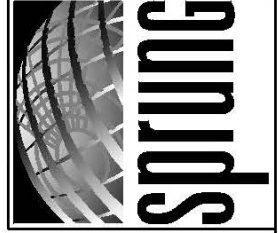
**Links:** <https://waterfordfarms.ca/>





<b>DRAWING APPROVAL</b>
Signature _____
Print Name _____
Date: _____
Confirmation of design loads at site per the local building dept. WIND: q50 _____ kPa SNOW: Ss _____ kPa SNOW: Sr _____ kPa Initial: _____

<b>ENERPRO ENGINEERING INC</b>	
60.0' x 150.0' SHRIMP FARM	
DATE: 05/02/2018	SCALE: AS NOTED
DRAWING # F18-065A-R3	



SIGNATURE SERIES





## Top 5 Reasons to Choose Sprung:

- 1. Immediate Delivery from Inventory** – Fabric tensioned structures can complete projects in a much shorter time-frame than conventional construction.
- 2. Engineered for Even the Most Extreme Climates** – Enjoy peace of mind: Sprung structures are engineered to withstand extreme weather conditions.
- 3. Limited to No Foundation Requirements** – Structures can be easily anchored to existing asphalt or raw earth.
- 4. Airtight** – Air loss within a Sprung structure can be said to be almost zero due to the type of wall construction used. The entire building structure has been specifically designed to prevent air flow while maintaining strong structural integrity.
- 5. Lease with Option to Purchase** – Increase your cash flow savings with Sprung's convenient in-house leasing program.

## Sprung Structures

For four generations, Sprung has designed solutions for every conceivable application. Inventory-ready building solutions that consistently outperform other building alternatives.

- Sprung structures can be dismantled, reconfigured, re-erected, or relocated for almost any number of applications and virtually every market sector in the world.
- Beyond providing all-weather shelter for equipment and inventory, Sprung structures provide bright, spacious high performance, energy efficient environments.
- To date, Sprung has completed over 13,000 structures in more than 100 countries worldwide.



TOLL FREE: 1-800-528-9899  
 OR (403) 246-5371 www.sprung.com

**GENERAL NOTES:**

1. ALL PERSONNEL DOORS C/W HOODS.
2. STRUCTURE TO BE INSULATED W/HR FIBERGLASS BATT INSULATION C/W 1/2" GYPSUM BOARD FINISH ON EXTERIOR LEVEL ONLY.
3. INNER & OUTER MEMBRANE TO BE FINISHED TO CONCRETE USING ALUM. FLAT BAR.
4. STRUCTURE MEMBRANE MEETS: W/HR 70% CALORIFERENT STATE FIRE W/LS1091 & ULS1024 W/LS1091 & ULS1024 SPECIFICATIONS.
5. THIS STRUCTURE IS DESIGNED TO WITHSTAND THE PERMETER TO WHICH THE WIND SPEED IS KEPT CLEAR.
6. WHEN DESIGNING A HEATING, VENTILATION OR AIR CONDITIONING SYSTEM, IT IS IMPORTANT TO ENSURE THAT THIS SYSTEM INTAKES EXHAUSTED AIR AT PEAK TIME. THIS PROCESS WILL RESULT IN A MANAGED CONCENTRATION OF NEGATIVE PRESSURE EXISTS WITHIN THE STRUCTURE. THE INTAKE AIR SHOULD BE DRAWN INTO THE STRUCTURE. THE INTAKE AIR SHOULD BE DRAWN INTO THE STRUCTURE.
7. ALL INTERIOR WALLS & PARTITIONS (IF APPLICABLE) TO BE FINISHED TO THE FINISH LEVEL OF SPRUNG STRUCTURE.

**DESIGN LOADS**

STRUCTURE LOCATION: COLLINGWOOD, ON

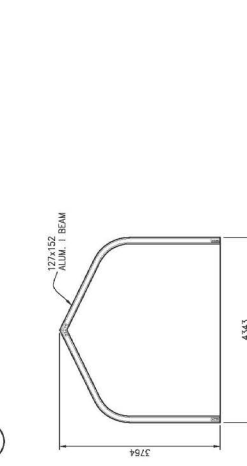
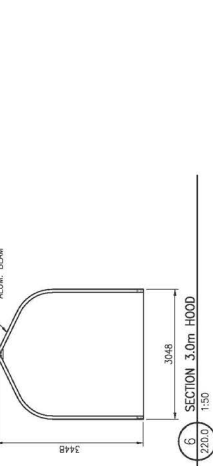
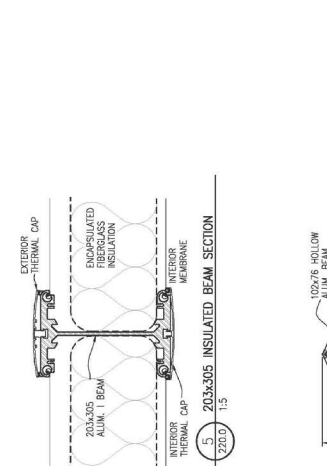
BUILDING CODE: NBC

WIND: ASCE 7-10 (ASCE 7-10) 4th Ed.

GROUND SNOW LOAD: S<sub>r</sub> = 2.4 kPa

**SIGNATURE SERIES**

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**DRAWING APPROVAL**

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

Confirmation of design loads at site per the local building dept.

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SNOW: Ss kPa

SNOW: Sr kPa

Initial: \_\_\_\_\_

