



**ADMIRAL GRATTON  
LEGACY FARM**  
New Tecumseh, Ontario

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Dofasco Steel Design, 2006)

**DESIGN AND CONSTRUCTION  
TEAM**

**Owner:**

Admiral Gratton Legacy Farm

**Builder:**

Dutch Master Construction  
Services Ltd.

**Engineers:**

Tacoma Engineers Inc.

**Steel Cladding Supplier:**

Agway Metals Inc.

## Horse Facility With Residential Quarters



Dutch Masters Construction Services Ltd. specializes exclusively in the design and construction of horse facilities and has received Master Builder, Builder Of The Year, and Environmental Conservation awards while becoming a leader in the field. The company completed a high-end horse facility between spring 2004 and spring 2005 for Admiral Gratton Legacy Farm located in the Township of New Tecumseh, Ontario and owned by Gary and Linda McMillan.

With over 30 years' experience, Dutch Master's president Gary Van Bolderen oversees the design and planning of projects. Finished drawings are usually provided by Tacoma Engineers and such was the case here. The overall structure was built to comply with the Farm Building Code for the area, with additional fire rating between a residential component and the rest of the facility. As well, restrictions imposed by the local conservation authority had to be met regarding the proximity to bush lots and a nearby stream.

The overall facility is roughly L-shaped comprising an indoor riding arena 80' x 180', stables totaling 38' x 160' with 14 stalls; a T-shaped connecting link of 38' x 150' containing tack room, laundry room, wash stalls, and a viewing room with a 3' raised floor overlooking the arena; and a 1200 sq.ft. residential apartment for the hired help. There is 36' x 48' hay storage, a 40' x 60' 3-sided brick outdoor manurepit, and a 120' x 240' outdoor sand ring plus a Grand Prix grass ring of similar size. The purpose of the facility is for riding lessons, horse training and boarding.

The arena framing is post & beam with 80' clear-span wood trusses, and the rest of the main structure standard foundation and stud wall with scissor trusses. Walls are 10' high with 13' to 15' high cathedral ceilings throughout. Interior walls are lined with 2" x 6" T&G ash over R20 fiberglass insulation (excluding the arena), and the ceilings are pine with R40 blown in.

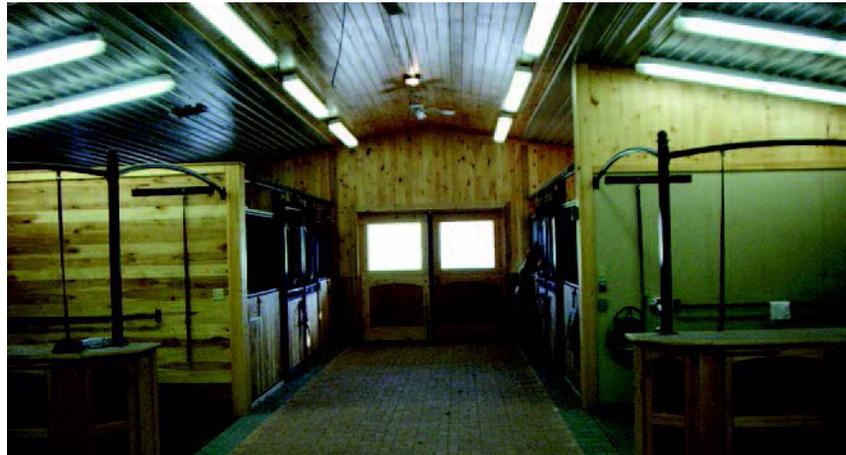
The exterior cladding of the apartment includes roof shingles and mossy green pre-painted wood siding to set it apart visually from the rest of the structure which is clad with steel: 29 gauge Charcoal QC8306 with Century Rib profile for the roof, walls clad with Stone Grey, QC8305 with Diamond Rib profile and trim White-White QC 8317, all pre-painted Galvalume™.



Gary Van Bolderen says that he occasionally works with board & batten or stucco but prefers steel, as did the McMillans, citing 'maintenance-free' as the major factor in choosing it. A competitive quote for rough-sawn board & batten was obtained which was competitive until you factored in the cost of painting. In effect, cost and durability – and not needing to repaint every 5 or 6 years – carried the day for steel. Van Bolderen adds: "If you put a dent in stucco for example it's a pain to fix, but with steel you just replace that sheet."

Ventilation is achieved by standard exhaust fans plus recirculating fans so the air isn't layered with cold at the bottom and hot at the top, but evenly distributed. It is of course critical to offset the moisture from the horses' urine, breathing and sweat.

Other features in the facility include hot water under-floor heating, ceramic floors and Controlled Impact Footing, custom designed millwork and stall hardware, central-vac, and a sound system throughout.



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