

# INCIDENT REPORT — #00035 Andover - Barn Collapse



Essex County Technical Rescue Team

Printed by Eric Pepper  
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## Overview Duration: 5 hrs

<b>Coordinates</b>	42° 36.2385' N 71° 5.2483' W 19 N 328762 4718951	<b>Alerted</b>	07:07 Sun 22nd Feb 2015
<b>Address</b>	182 Jenkins Rd Andover Town of Massachusetts 01810 United States	<b>Mobile</b>	07:08 Sun 22nd Feb 2015
		<b>On Scene</b>	07:42 Sun 22nd Feb 2015
		<b>Finished</b>	12:07 Sun 22nd Feb 2015

<b>Description</b>	<p>Andover Fire Timeline: 0641 Dispatch 0656 On Scene 0707 Request ECTRT 0742 ECTRT in place 0854 2 Shores in Place 0937 1 Horse removes (Rear Door) 0950 2 Horses removed (Wall Breach)</p> <p>Property Owner: Mohammed Khurso 182 Jenkins Rd Andover, MA 01810 (978-726-8658)</p> <p>He rents the entire place to David Wilson 180 Jenkins Rd Andover, MA 01810 (781-910-3862)</p> <p>Wilson operates Flying High Stable from that location.</p> <p>Operation Section: Andover Fire Rescue (AFR) received a call for a barn collapse with horses trapped inside the barn. I responded with AFR as the Lieutenant of Engine 1, on the initial dispatch. On arrival the IC reported a large barn with partial roof collapse and three horses remaining inside the barn. The IC delegated the operations sector to me at this time.</p> <p>Barn: 200 X 60; wood frame, wood truss roof, corrugated sheet metal exterior.</p> <p>Approx. 20 horse stalls located on the "B" side of the barn. The roof collapse affected approximately 30% of the roof with the majority of the collapse being from the ridge pole towards the "D" side. The section that collapsed on the "B" side had created a lean-to type of collapse. The interior section was being supported by the interior partition which was where the normal entrance to the stalls is located. The IC assigned a safety officer ( Tom Harris-ECTRT).</p> <p>Initial concern was to support the "B" side wall that was in the collapsed area. The possibility for the wall to pushing outward would be our first task in shoring the building. Prior to being able to attempt this, the snow next to the building was removed by using shovels, a snow blower, and a plow. This task was conducted with limited personnel from AFR and ECTRT members. The collapse zone next to the building was evaluated by the safety officer throughout the operation.</p> <p>On arrival of the ECTRT Rescue truck Rick Nelson was placed in charge of the shoring team and tasked with assembling the Para-Tech shoring. Due to the uneven soil next to the building I determined that a "Flying Strut Raker" system would be used. Using the intact building support system, the system was assembled, secured to the wall plate w/ an insertion point at approx. 11'. The base was secured using rebar that was driven into the soil. Once the system was secured, the metal sheathing was unscrewed from the building. This exposed the 2x6 planking that ran horizontal on the inside of the structure. This plank wall extended from the floor to approx. 8' and was used as the wall to the stalls. At this point the owner and the veterinarian were able to climb up the folding ladder and visually assess the horses. Upon consultation with the Structural Engineer ( a FEMA, MA-TF-1 resource that was dispatched to the scene), we decided to cut the 2x6 planks to make an opening through which the horses could exit their stalls. two cuts were made to allow the first horse to be further assessed and a sedative was administered by the veterinarian to calm the horse. The final cuts on stall number one were made and the horse was lead out by the owner. All assessments of the horses were done from the exterior and with in the safe work area. This process was conducted again on stall two and removal of the second horse was completed. Prior to cutting the first stall, it was determined that the horse in the third stall was able to be walked out the rear of the barn by members of ECTRT. This was completed prior to any cutting of the exterior wall of the barn.</p> <p>With the removal of the horses from the structure the team was sent to rehab prior to break down of the system.</p>
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	<p>During the rehab break, consultation with the structural engineers took place. It was determined that we would be able to remove the system from the wall. The IC tasked operations with the removal of the system. The team was divided into two squads for demobilization. Squad one under the supervision of Technician Richard Nelson and Safety Officer Harris, removed the system from the wall. Technician Jon Burt was in charge of Squad two, which was tasked with returning all equipment to ready status. All tasks completed and equipment returned to service.</p> <p>Equipment Used:  1 Raker system  1 chainsaw  1 saws all  2 nail guns  4 rebar  1 8bls sledge hammer  4 shovels  4 2X12 cut to make 2x6  1 skill saw</p>
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<b>Activities</b>	<b>Collapse Rescue</b> → Breaching & Breaking, Raker Shores, Shoring <b>Animal Rescue (Assistance &amp; Guidance)</b> → Horse Rescue
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### Resources

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### Weather

<b>Conditions</b>	Overcast. Feels: 30.7°F. Cloud Cover: 1%. Pressure: 1020.26mb		
<b>Visibility</b>	Good	<b>Wind</b>	W Force 0
<b>Sea State</b>	-	<b>Sea Swell</b>	-
<b>Air Temperature</b>	30.7 °F	<b>Water Temperature</b>	-
<b>Snow Conditions</b>	-	<b>Cloud Base</b>	-

### Equipment

<b>Vehicles</b>	2 Trucks → GMC Top Kick - Rescue, Ford F700
<b>Structural Hardware</b>	7 Paratech → Paratech Raker Rail Latch, Paratech Flying Raker Kit, Paratech Clamp 335 & Clevis, Paratech Adjustable Brace Model B23

### Attendance

<b>Incident Command</b>	Albert Del Dotto Squad 1	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
<b>Staging Officer</b>	Bill Warnock Operations Liaison	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
<b>Shoring Crew Leader</b>	Rick Nelson Squad 2	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
<b>Rescue Operations</b>	Robert Stabile Squad 1	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
<b>Safety Officer</b>	Thomas Harris Squad 1	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Brian Wright Squad 1	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Carl Morrison Probie	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Dennis Ring Squad 2	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Eric Pepper Squad 2	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Fred McCarthy Squad 1	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	John Weir Squad 1	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Jon Godbout Squad 2	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Jonathan Burt Squad 2	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Lenny Levesque Squad 2	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Matthew Fowler Probie	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Michael Long Squad 2	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Paul Pronco Squad 2	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Russell Lewis Squad 3	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015
	Ryan Brown Squad 2	07:07 Sun 22nd Feb 2015	12:07 Sun 22nd Feb 2015

Signed: .....

Date: .....