



# Windham Police Department

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Crash Reconstruction Program



# Detective Gene Gallant

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Windham Police Officer . 19yrs

Crash Reconstructionist, Forensic Mapping Specialist, and Event Data Recorder Analyst

Court Certified Expert in the area of Crash Reconstruction and Forensic Mapping

Crime Scene photography

# Sergeant Jason Burke

Windham Police Department - 13 years

Crash Reconstruction Specialist (2010)

Forensic Mapping Specialist (2012)

Event Data Retrieval Specialist (2011)

Motor Vehicle Autopsy Specialist (2013)

Crime Scene photography

# What we do...

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Investigate crash scenes for possible criminal prosecution, civil litigation, traffic violations.

Crash investigation has evolved due to public pressure in regards to human violation factors involved in vehicle crashes (distracted driving, OUI etc.)

Crash scenes (especially serious injury and fatal crashes) are being treated more like crime scenes.

# What we do...

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Four elements of a complete crash investigation:

1. Crash scene reconstruction
2. Forensic Mapping (Scale Diagram)
3. Event Data Recorder Analysis (Airbag Module)
4. Vehicle Autopsy

# What we do

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Currently there are two agencies in the state that can complete all four of these functions: Maine State Police and the Windham Police Department

There are eight Officers in the state that can perform EDR downloads. Detective Gallant and Sergeant Burke are two of them. The others are: Maine State Police (5) Cumberland County Sheriff's Department (1).

There are only two officers in Cumberland County that can do autopsies. Sergeant Burke is one them. There are 14 statewide.

# small Unmanned Aerial System (sUAS)

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# Advantages

- “ Reduce scene time
- “ Reduce drawing time
- “ Reduce time for aerial photos
- “ Reduce dependency on fire apparatus and personnel for this evidence.
- “ Able to render crashes in a three dimensional animation format instead of two dimensional static images.

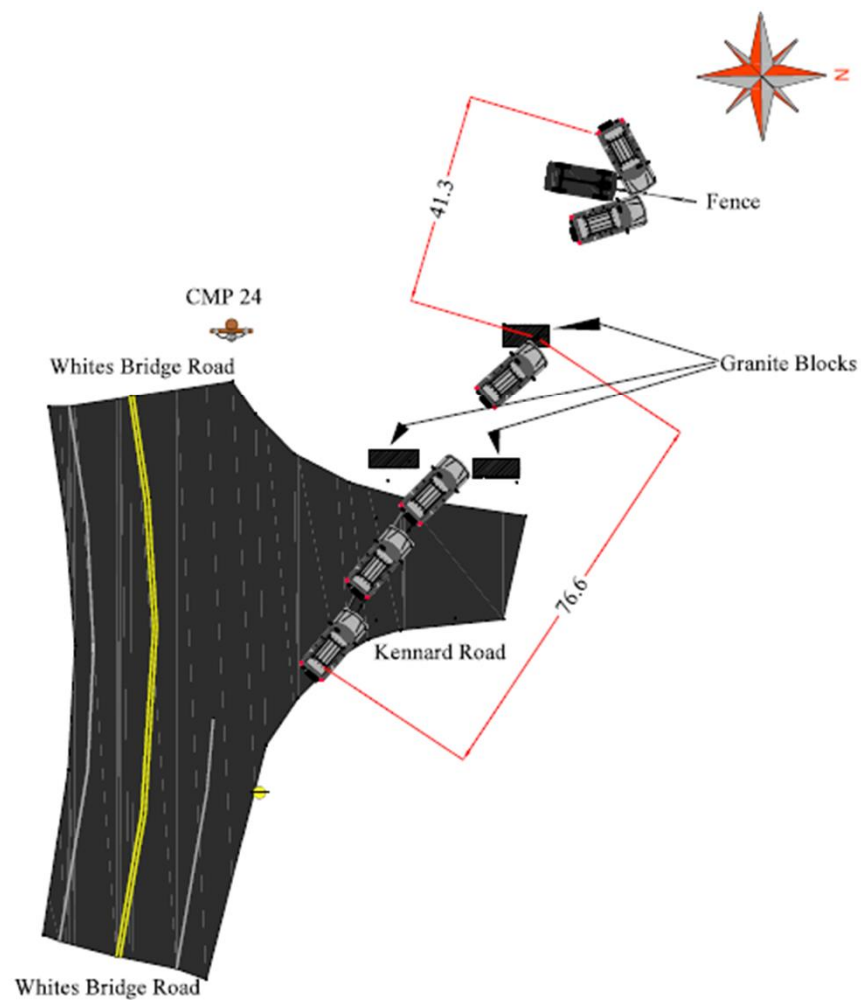
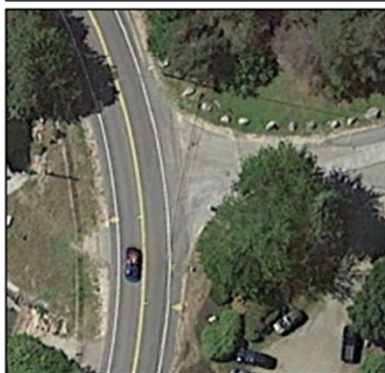
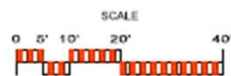


**Vehicle One**  
2014 Honda CRV  
ME Comb: BELLAB  
Driver: Casey Bouchard

**HM 2016-081**

Whites Bridge Road and Kennard Road  
July 1, 2016

Drawn By: Eugene Gallant  
Reconstructed By: Eugene Gallant



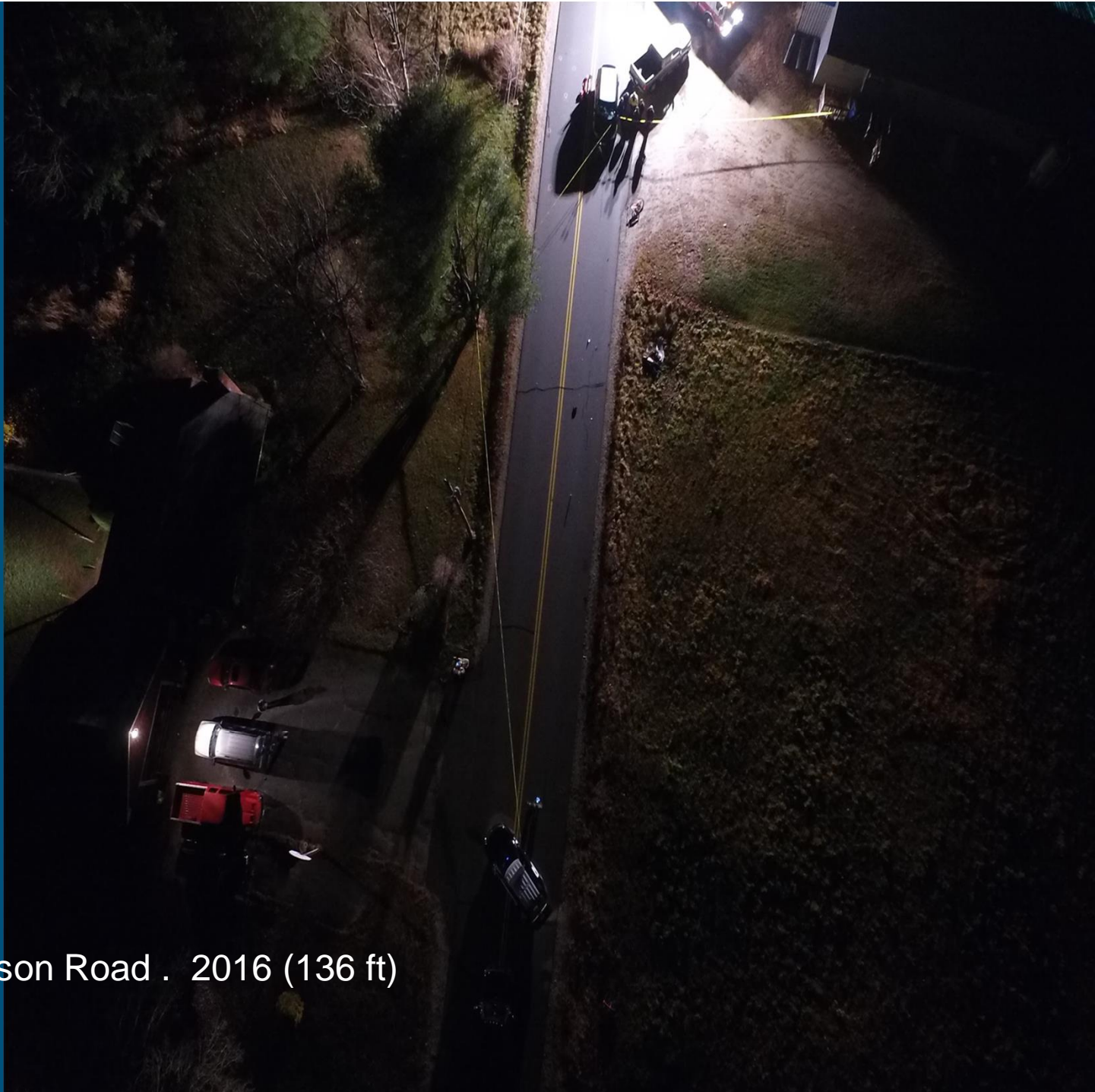






Tandberg Trail . 2016 (65 ft)





Anderson Road . 2016 (136 ft)

## Other possible uses

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Search and Rescue

Fire scenes (structure fires, brush fires etc.)

# FAA Requirements

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There are two ways a public agency can utilize a sUAS:

1. Apply for an FAA certificate of authorization (COA)
2. Have authorized users obtain a remote pilot certificate with a sUAS rating through the FAA (sUAS pilot license)

FAA recommends public agencies do both. This is the course that the Windham Police Department is taking.

Advantages: Better trained pilots, less liability on the part of the town, greater knowledge of laws surrounding UAVs

Detective Gallant and Sergeant Burke both have their sUAS pilots license.

# Unmanned Aerial Vehicle (UAV) - Policy

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Remote Pilots must be FAA certified in accordance with Part 107

May not deploy the UAV for criminal investigative purposes or public safety purposes without permission

May deploy the UAV for crash investigative purposes without the knowledge and / or prior approval of the Chief

Search warrant will be required when necessary

Under **NO** circumstances will the UAV ever be equipped with: Facial recognition technology or weapons of any kind.

# Unmanned Aerial Vehicle (UAV) - Policy

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UAVs must be operated by a Remote Pilot at an altitude, a speed, and with a planned flight pattern that will ensure that the invasion of privacy of third parties who are not under investigation is minimized.

A Remote Pilot shall not deploy the UAV to conduct surveillance on private citizens peacefully exercising their constitutional right of free speech and assembly.