

Drone Use in the Department



Traffic/Incident Management



US 13
and
Reddin
Rd

Special Events

Firefly 2019



Special Events

Firefly 2019



Special Events



Firefly 2019

Construction and Safety Inspection



Bridge 3-150



Regulations and Program



➤ > Night Waivers

➤ > 107.29

➤ > COA

(Certification of Authorization)

➤ **WORKING ON:**Part 107.39
Operations Over People

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	
CERTIFICATE OF WAIVER OR AUTHORIZATION	
ISSUED TO	US DHS Homeland Security Investigations Responsible Person: Mark Abend Waiver Number: 107W-2017-05125
ADDRESS -	16846 Barclay Lane Huntington Beach, CA 92649
This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.	
OPERATIONS AUTHORIZED	Night small unmanned aircraft system (sUAS) operations.
LIST OF WAIVED REGULATIONS BY SECTION AND TITLE	14 CFR § 107.29 Daylight operation
STANDARD PROVISIONS	
<ol style="list-style-type: none"> 1. A copy of the application made for this certificate shall be attached to and become a part hereof. 2. This certificate shall be presented for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations. 3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein. 4. This certificate is nontransferable. 	





DelDOT Drone Checklist

Pre-Flight:

- Inspect Aircraft
- Check Propellers
- Inspect Camera
- SD card installed
- Battery inserted properly
- Controller/iPad connected
- Max altitude set to 120m (400ft)
- RTH height set to 10m above surrounding obstacles

Takeoff:

- Confirm Satellites (Min 8)
- Announce and start motors
- Verify home point
- Note battery percentage
- Announce and take off
- Control check above 5m
- Check orientation lights
- Landing gear up (If applicable)



Landing:

- **Announce Landing**
- **Landing Gear Down**
- **Visually Clear Landing Area**
- **Land Aircraft**
- **Stop recording (if recording)**
- **Shutdown Motors**
- **Note Battery Percentage**

Post-Flight:

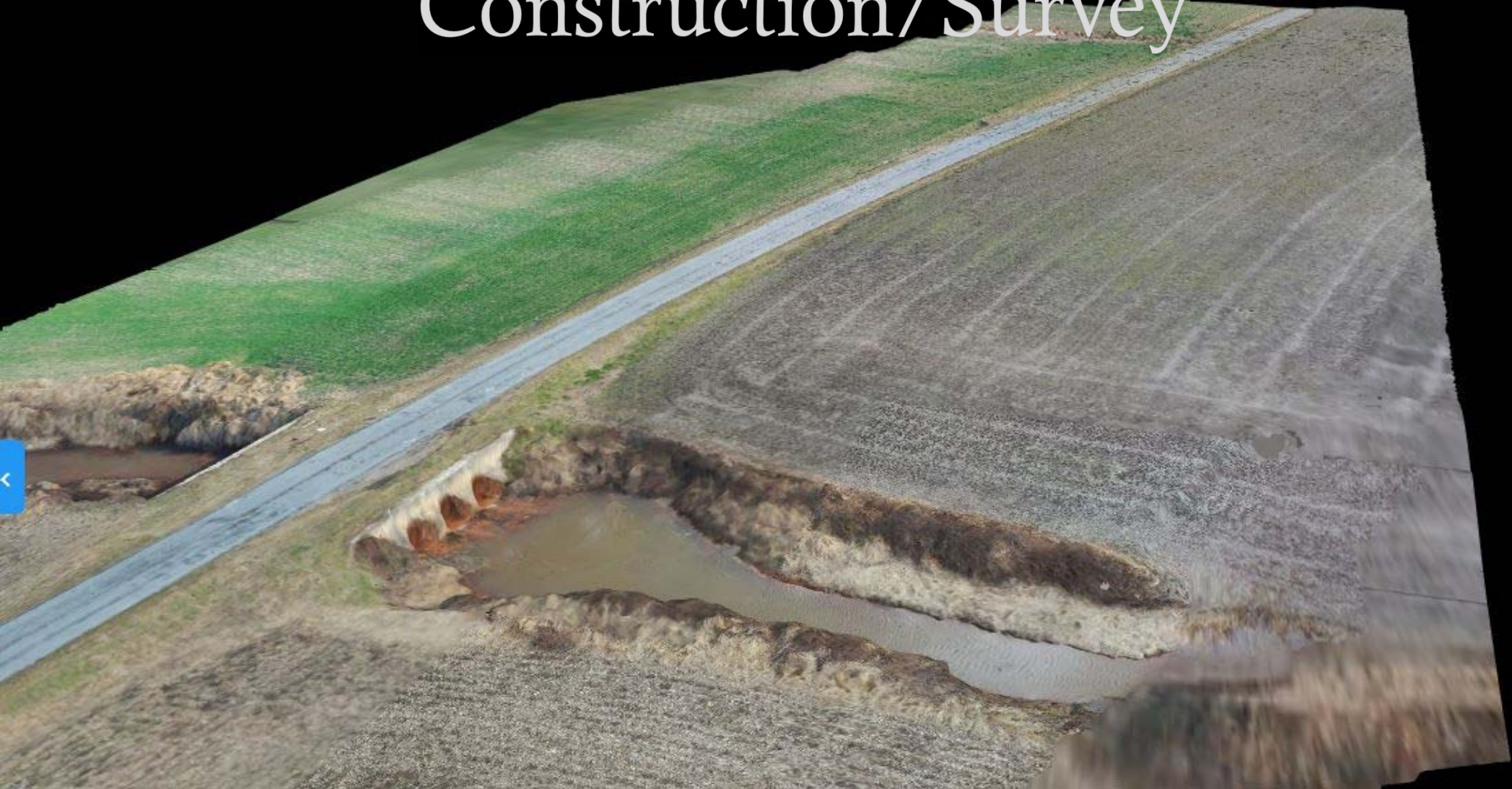
- **Shutdown/Dismantle Aircraft**
- **Turn iPads OFF (Hold power & slide)**
- **Disconnect iPads & Controllers**
- **Note any M.O.S.T. Issues**
- **Return everything to case and secure**







Construction/Survey





Photogrammetry

Ground Control



Map Plan 4 +

37:40 5 523 3
Minutes Acres Images Batteries

Flight Altitude
Resolution: 0.4 in / px 120ft

Enhanced 3D
Improves quality of 3D structures with additional image capture.

Live Map HD

Advanced >



Don't own a drone? [Test the simulator](#)

HELP 🗉

Connect drone ☑️

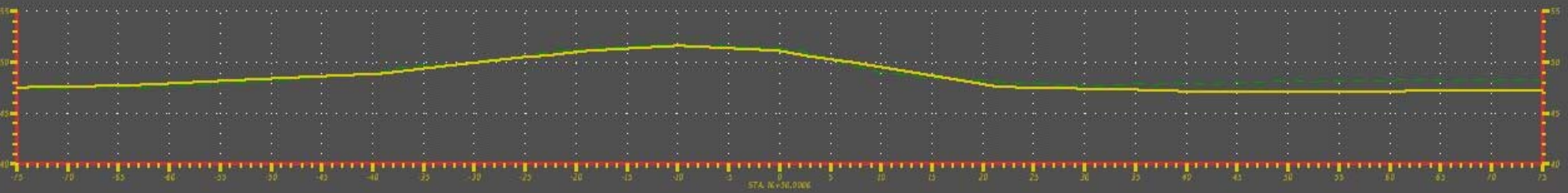
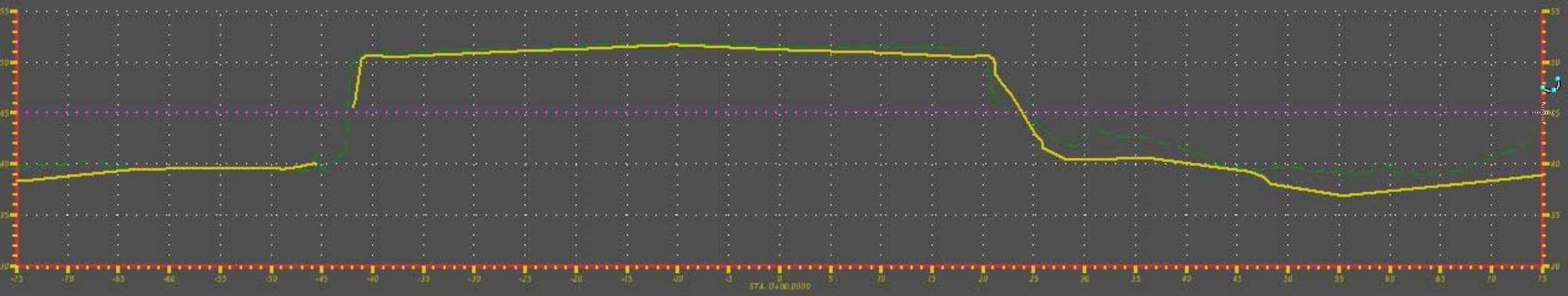
+

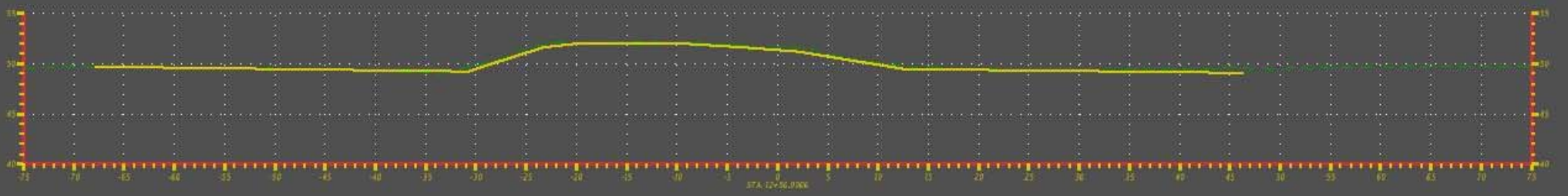
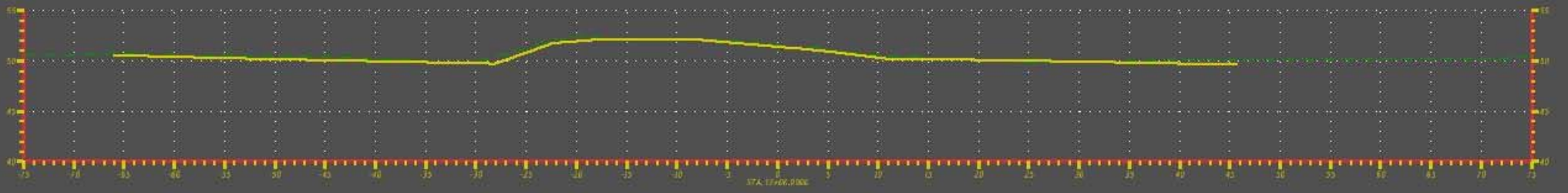
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☑️







Measure Distance

Method:

About:

	True	Projected
Distance:	<input type="text" value="0.0929'"/>	<input type="text" value="0.0929'"/>
Total:	<input type="text" value="0.0929'"/>	<input type="text" value="0.0929'"/>

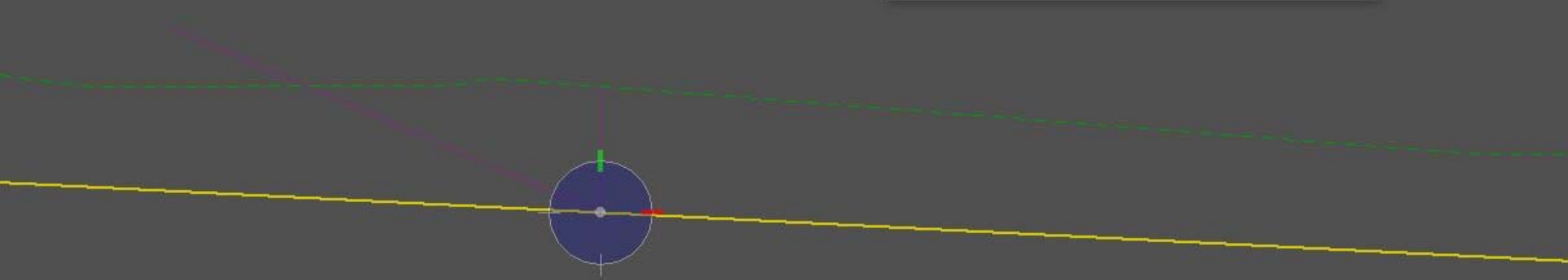


Measure Distance

Method:

About:

	True	Projected
Distance:	<input type="text" value="0.1359'"/>	<input type="text" value="0.1359'"/>
Total:	<input type="text" value="0.1359'"/>	<input type="text" value="0.1359'"/>

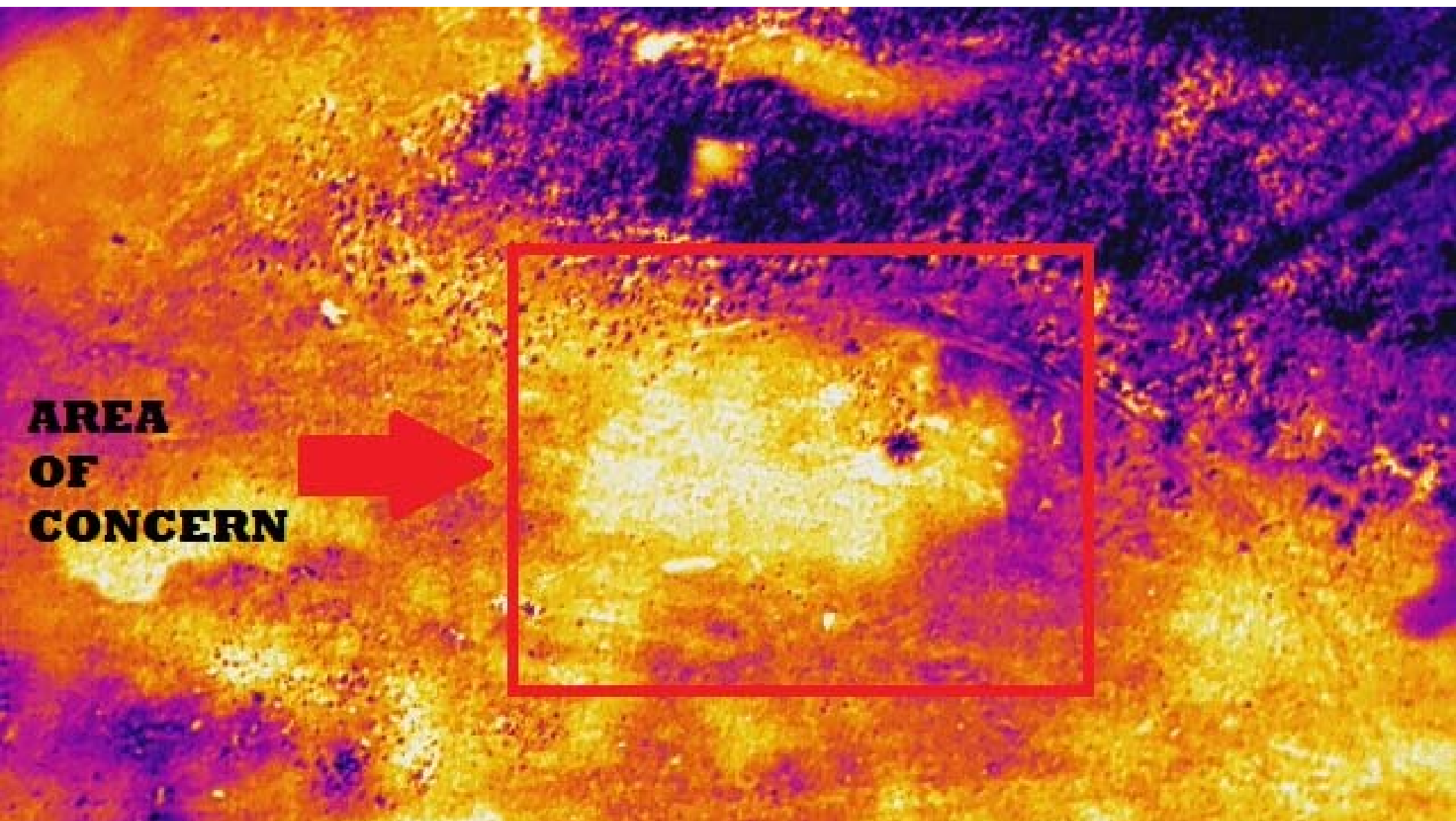


Land Services



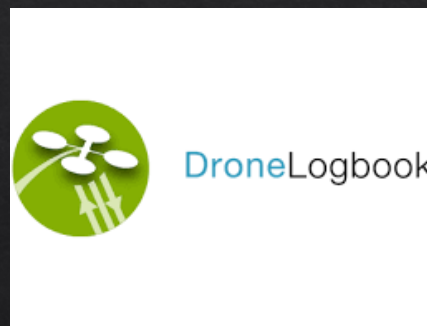
An aerial photograph of a lush green hillside. At the top of the hill, there is a cluster of tents and other structures, indicating an encampment. The hillside is covered in dense vegetation, including trees and bushes. A dirt path winds through the lower part of the hill. The text "Eden Hill Encampment" is overlaid on the left side of the image.

Eden Hill
Encampment



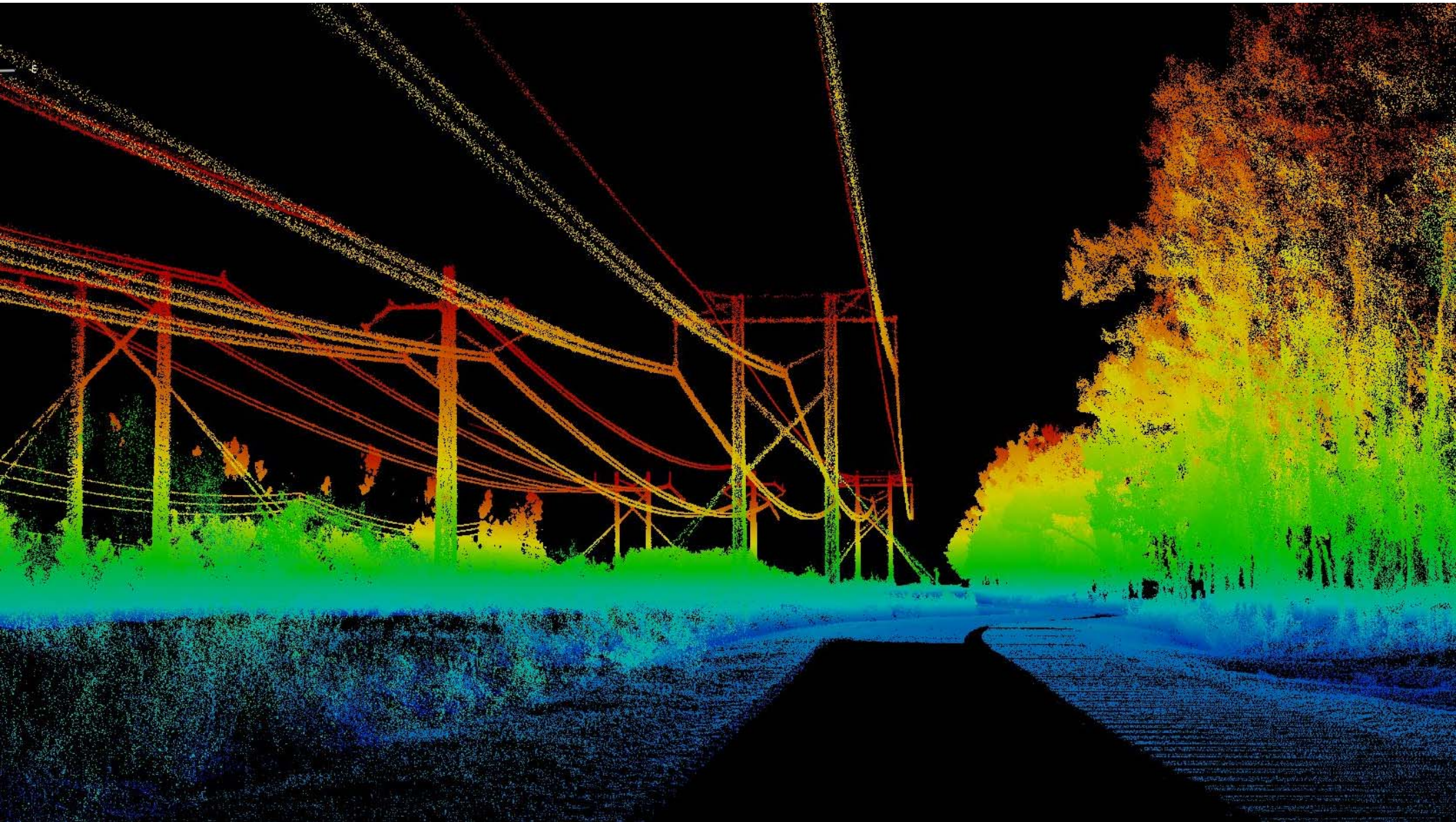
**AREA
OF
CONCERN**

Drone Programs









Closing/Questions?

