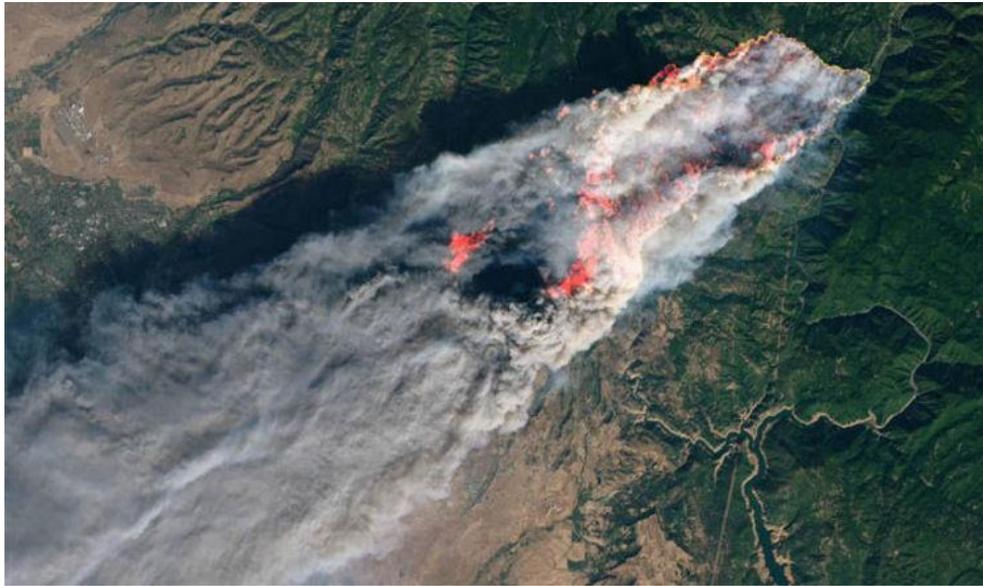


# Camp Incident Damage Inspection Report CABTU 016737



November 26<sup>th</sup>, 2018

Submitted by:

Nick Wallingford, Damage Inspection Manager

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## SCOPE AND INTENT

The scope of this report is focused on the Camp Incident (CABTU 016737) that began on November 8<sup>th</sup>, 2018 in the County of Butte California.

The intent of the report is to provide an evaluation of fire damage to structures within the incident perimeter. This report attempts to include all habitable, commercial, utility and miscellaneous structures with a footprint greater than 120 square feet throughout the incident area. The report may evaluate or identify fire damage to infrastructure, mobile equipment, or other miscellaneous parcel improvements as determined.

## DISCLAIMER

The damage inspection data is approximate and for informational purposes only. The information and data contained in this report was collected using a systematic inspection process. Data collection concluded on November 24<sup>th</sup>, 2018 at 1800 hours.

Fire damage and poor access were major limiting factors for damage inspectors; therefore, a small margin of error is expected. The terrain, vegetation coverage, and large area burned by the fire made locating damaged or destroyed structures very difficult. All the structures damaged or destroyed by the fire may not be identified in this report due to these limiting factors.

Additionally, identification of structure types (such as single-story single family residence vs. multi-story single family residence) was extremely difficult in some areas due to complete combustion of all identifying features. Damage inspection teams used their best judgment when assigning structure type classifications based on available features.

This report is based on the Firefighting Resources of California Organized for Potential Emergencies (FIRESCOPE) Damage Inspection Specialist (DINS) training curriculum. This report is not designed or intended to assess the value of individual damaged structures or determine the value of the total damage caused by the fire. Data contained in this report is gathered through field inspections and available assessor's parcel information.

**METHODOLOGY**

CAL FIRE utilizes damage inspection criteria established by the Office of the State Fire Marshal to correlate data with California State Building Codes and Fire Safety Regulations. These criteria follow FIREScope standards established for damage inspections as well as current FEMA guidelines where applicable. Data collection for each structure began with the visual confirmation by inspection teams. The following chart provides the category of damage levels used during the inspections:

Category of Damage	Definition	Examples
Affected (1-9%)	Minimal damage to the exterior and/or contents of the building. Building is habitable/usable and requires mostly cosmetic repairs.	Partially damaged shingles or siding, but roof structure is intact. Cosmetic damages such as paint discoloration, blistering or melted siding. Broken windows. Gutter damage. Damage to an attached structure like a deck, porch, carport, or patio cover.
Minor (10-25%)	Encompasses a wide range of damage that does not affect the structural integrity of the building. Building is not habitable/usable.	Nonstructural damage to roof components (e.g. roof covering, fascia board, soffit, flashing, and skylight). Nonstructural damage to the interior wall components to (e.g. drywall and insulation). Nonstructural damage to exterior components (e.g. door and windows. Substantial damage to exterior covering (e.g. siding, vinyl or stucco). Damage to mechanical components (e.g. furnace, boiler, water heater, HVAC, etc.).
Major (26-50%)	A building that has sustained significant structural damage and requires extensive repairs. Building is not habitable/usable.	Failure or partial failure of structural elements to include rafters, ceiling joists, ridge boards, etc. Failure or partial failure to structural elements of the walls to include framing, sheathing, etc.
Destroyed (>50%)	The building is a total loss, or damaged to such an extent that repair is not feasible.	Complete failure to major components (foundation, walls, roof, etc.). Two or more walls destroyed and roof substantially damaged. Only the foundation remains. The building will have to be torn down and rebuilt as it is unsafe.

DINS teams classified the damaged or destroyed structure into one of the following structure classifications:

<b>Type</b>	<b>Structure Type</b>
Single Residences	Single Family Residence-Single Story
Single Residences	Single Family Residence-Multi Story
Single Residences	Mobile Home - Single Wide
Single Residences	Mobile Home - Double Wide
Single Residences	Mobile Home - Triple Wide
Single Residences	Mobile Home - Motor Home (if used as residence)
Multiple Residences	Multi Family Residence-Single Story
Multiple Residences	Multi Family Residence-Multi Story
Mixed Commercial/Residential	Mixed Commercial and Residential
Nonresidential Commercial	Commercial Building - Single Story
Nonresidential Commercial	Commercial Building - Multi Story
Nonresidential Commercial	School
Nonresidential Commercial	Hospital (Medical)
Nonresidential Commercial	Church
Other Minor Structures	Utility or Miscellaneous Structure > 120 square feet
Infrastructure	Infrastructure (radio/cell tower/vault, bridge, etc.)

A structure is a habitable space when it appears to have permanent features that could be identified as a Dwelling Unit. A Dwelling Unit as defined in 2016 CBC Chapter 2 Section 202 is a single unit providing complete independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation. Teams generally considered a structure permanent if the foundation was comprised of concrete or cinder block and was attached to that foundation. Temporary habitable structures, such as mobile homes, are included in this report and are classified separately from permanent habitable structures.

Structures greater than 120 square feet are included in this report. This threshold is the size at which a building permit is required for construction (CBC 105.2 Item 1). Only utility and miscellaneous structures greater than 120 square feet that appear to be permanent structures are included in this report.

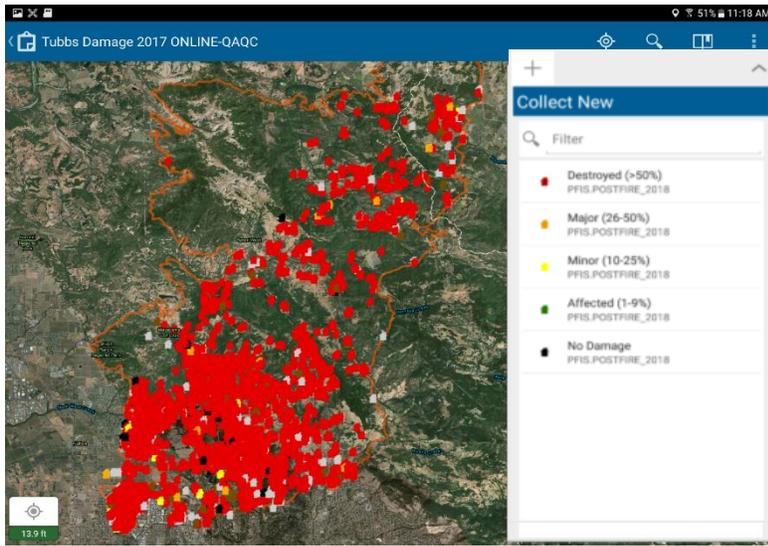


Figure 1 Data collection application

Wherever possible, all characteristics were collected that could allow for analysis of the fires impact to the structure. These included vegetation clearance, roof construction, eaves, vent screens, window panes, exterior siding, decks, patio covers, car ports, fences, topography, and aspect. Relative comments by the inspection team were also included. Additionally, a photo was taken of each damaged and destroyed structure and included in the damage inspection report.

Damage caused by fire suppression activities is not included in this report and would be documented by the incident's Compensation and Claims Unit. Damage numbers are subject to change in the weeks ahead when owners who have a more detailed knowledge of their properties return. Additionally, due to complete combustion and a lack of identifying features, inspectors may have been unable to accurately classify some structures into a specific structure type.

**FINDINGS**

In total, 19,531 structures were identified as damaged or destroyed by the Camp Incident in Butte County.

**SYNOPSIS**

**Overall (all jurisdictions)**

Category of Damage	Affected (1-9%)	Minor (10-25%)	Major (26-50%)	Destroyed (>50%)	Grand Total
Single Residence	412	47	3	13696	14158
Multiple Residence	21	3	1	276	301
Mixed Commercial/Residential	1	1	0	11	13
Non-residential Commercial Property	76	18	8	528	630
"Other" Minor Structures	89	32	15	4293	4429
<b>Total</b>	<b>599</b>	<b>101</b>	<b>27</b>	<b>18804</b>	<b>19531</b>

**Town of Paradise**

Category of Damage	Affected (1-9%)	Minor (10-25%)	Major (26-50%)	Destroyed (>50%)	Grand Total
Single Residence	307	32	2	10423	10764
Multiple Residence	21	2	1	273	297
Mixed Commercial/Residential	1	1	0	11	13
Non-residential Commercial Property	66	15	5	492	578
"Other" Minor Structures	54	19	10	3153	3236
<b>Total</b>	<b>449</b>	<b>69</b>	<b>18</b>	<b>14352</b>	<b>14888</b>

**Butte County**

Category of Damage	Affected (1-9%)	Minor (10-25%)	Major (26-50%)	Destroyed (>50%)	Grand Total
Single Residence	105	15	1	3273	3394
Multiple Residence	0	1	0	3	4
Non-residential Commercial Property	10	3	3	36	52
"Other" Minor Structures	35	13	5	1140	1193
<b>Total</b>	<b>150</b>	<b>32</b>	<b>9</b>	<b>4452</b>	<b>4643</b>



**DAMAGE INSPECTION WORKSHEET (EXAMPLE)**



State of California  
 Department of Forestry and Fire Protection  
 Revision Date: February 1, 2018

**Damage Inspection Worksheet**

Inspector First Name (print):		Inspector Last Name (print):		Inspection Date:	
Incident Name:		Incident Number (e.g., CALNU_123456):		Incident Start Date:	
<b>Physical Address</b>					
Latitude (Degrees Decimal Minutes):			Longitude (Degrees Decimal Minutes): -		
Street Number (e.g., 1234):			Street Name:		
Street Type (e.g., Court, Hwy 50, Blvd):			Street Suffix (e.g., Apt 23, Bldg C, Lot 12):		
City:			State: CA		Zip Code:
CAL FIRE Unit:		County:		Community:	
<b>Structure Status</b>					
<input type="checkbox"/> Destroyed (>50%) <input type="checkbox"/> Major Damage (26-50%) <input type="checkbox"/> Minor Damage (10-25%) <input type="checkbox"/> Affected (1-9%) <input type="checkbox"/> No Damage					
Where did the fires start on the structure (if Affected 1-9%): <input type="checkbox"/> Roof <input type="checkbox"/> Eaves <input type="checkbox"/> Vent <input type="checkbox"/> Siding <input type="checkbox"/> Window <input type="checkbox"/> Deck on Grade <input type="checkbox"/> Deck Elevated <input type="checkbox"/> Attached Patio Cover/Carport <input type="checkbox"/> Attached fence <input type="checkbox"/> Unknown					
What started the fire (if Affected 1-9%): <input type="checkbox"/> Direct flame impingement <input type="checkbox"/> Embers <input type="checkbox"/> Radiant heat <input type="checkbox"/> Unknown					
Structure defense actions taken by: <input type="checkbox"/> Civilian <input type="checkbox"/> Fire Department <input type="checkbox"/> Both <input type="checkbox"/> Unknown (Explain in comments section: E.g., Engine Company, Dozer Line, Retardant, or Civilian actions)					
Estimated vegetation clearance: <input type="checkbox"/> 0-30' <input type="checkbox"/> 30-100' <input type="checkbox"/> >100' <input type="checkbox"/> Unknown <input type="checkbox"/> Not Applicable					
Distance of propane tank to structure: <input type="checkbox"/> 0-10' <input type="checkbox"/> 11-20' <input type="checkbox"/> 21-30' <input type="checkbox"/> >30' <input type="checkbox"/> Not Applicable					
Topography: <input type="checkbox"/> Chimney <input type="checkbox"/> Flat Ground <input type="checkbox"/> Ridge Top <input type="checkbox"/> Saddle <input type="checkbox"/> Slope					
Aspect of the land to the structure: <input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> No Aspect					
<b>Structure Type</b>					
Single Residences:            Single Family: <input type="checkbox"/> Single Story <input type="checkbox"/> Multi Story Mobile Home: <input type="checkbox"/> Single Wide <input type="checkbox"/> Double Wide <input type="checkbox"/> Triple Wide <input type="checkbox"/> Motor Home (if used as a residence)					
Multiple Residences:            Multi-Family (e.g. apartments): <input type="checkbox"/> Single Story <input type="checkbox"/> Multi Story					
Mixed Commercial/Residential: <input type="checkbox"/> Mixed Commercial/Residential					
Nonresidential Commercial:            Commercial Building (e.g., Industrial, Manufacturing, Office, Retail): <input type="checkbox"/> Single Story <input type="checkbox"/> Multi Story <input type="checkbox"/> Church <input type="checkbox"/> Hospital (Medical) <input type="checkbox"/> School					
Other Minor Structures: <input type="checkbox"/> Utility or Miscellaneous Structure > 120 sq. ft.					
Infrastructure: <input type="checkbox"/> Infrastructure (Essential Services)			Agriculture: <input type="checkbox"/> Agriculture		
Number of units in the structure (if multiple unit structure): _____					
Non-Habitable Outbuildings < 120 sqft Count: _____					

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## APPENDIX A: STATUS OF AFFECTED PARCELS BY SITE ADDRESS

The Appendix A tables are based off the County Assessor's GIS parcel data. There may be inaccuracies with information shown and/or geospatial locations. When the GIS data did not show a site address, the table reflects an approximate field collected address and is denoted with "\* Field Collected."

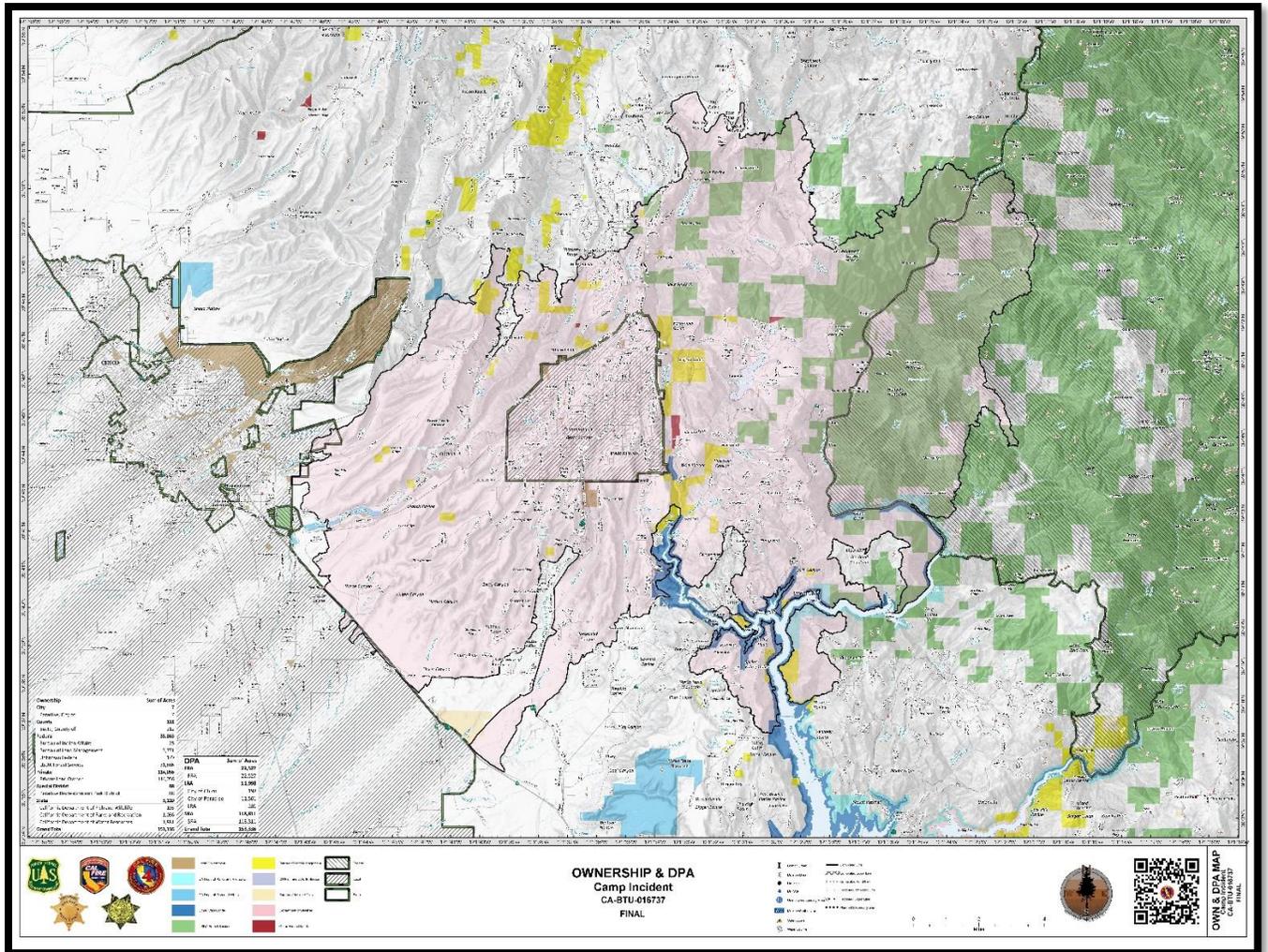
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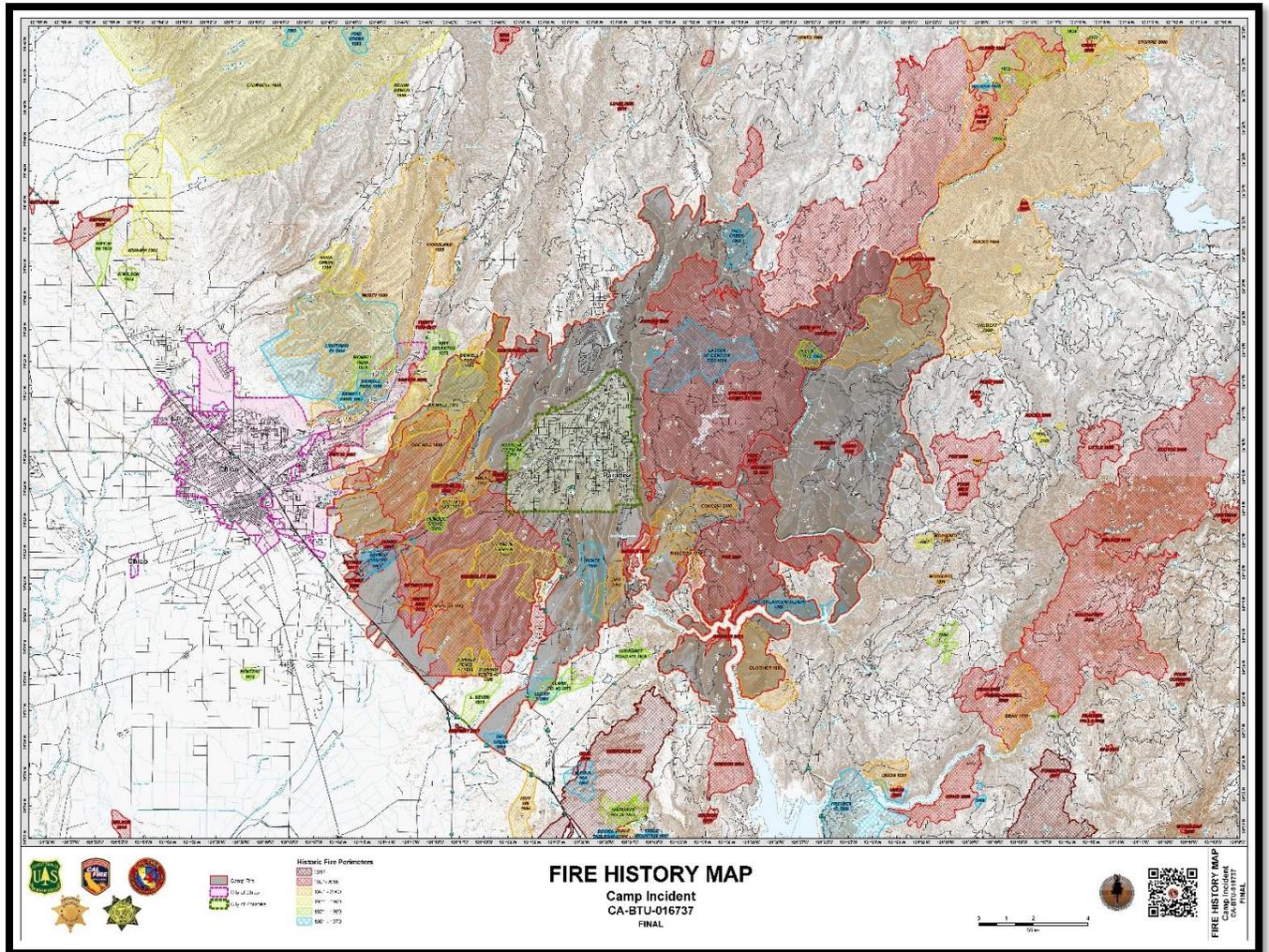
**APPENDIX B: MAPS**

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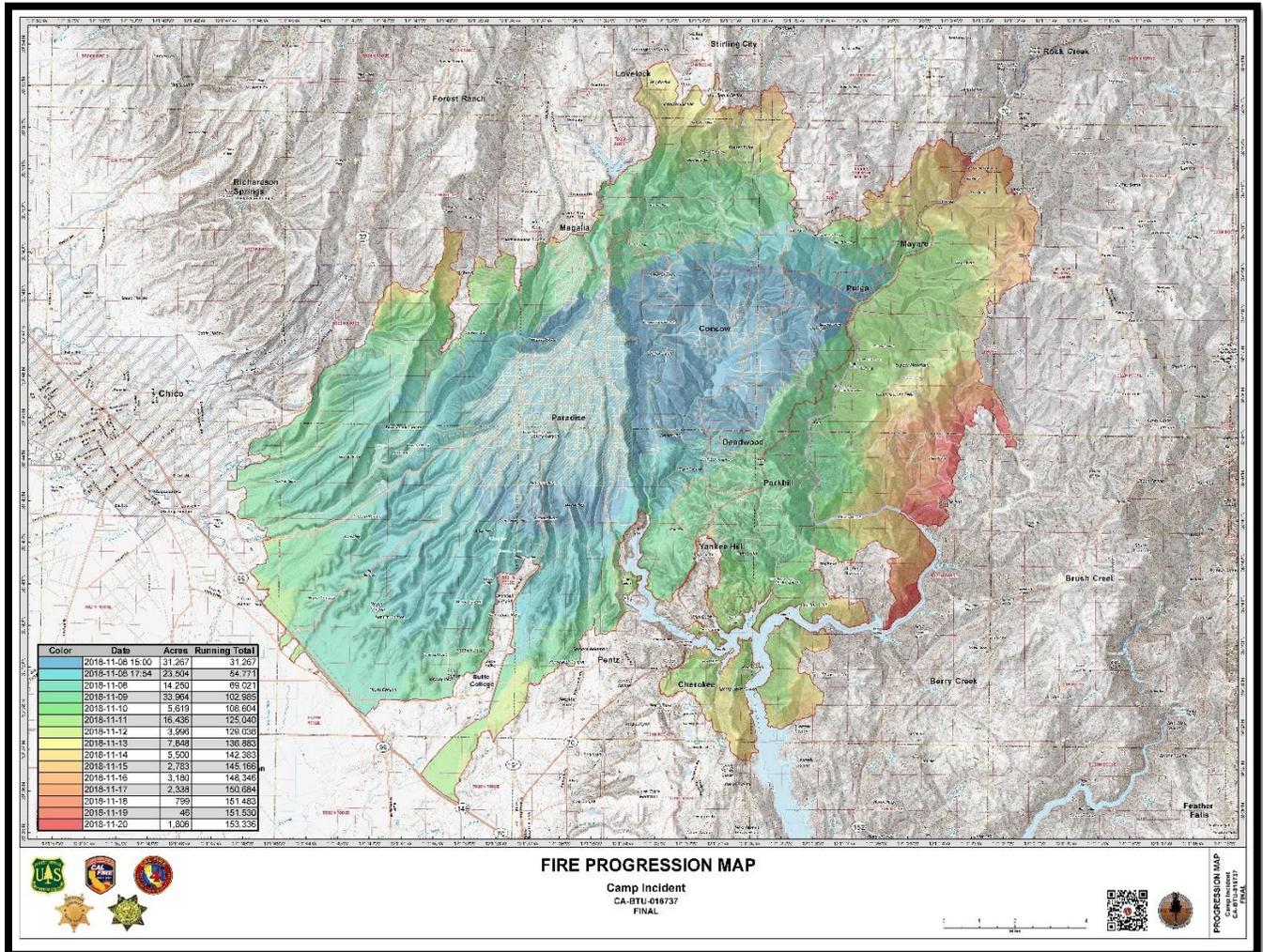
OWNERSHIP MAP

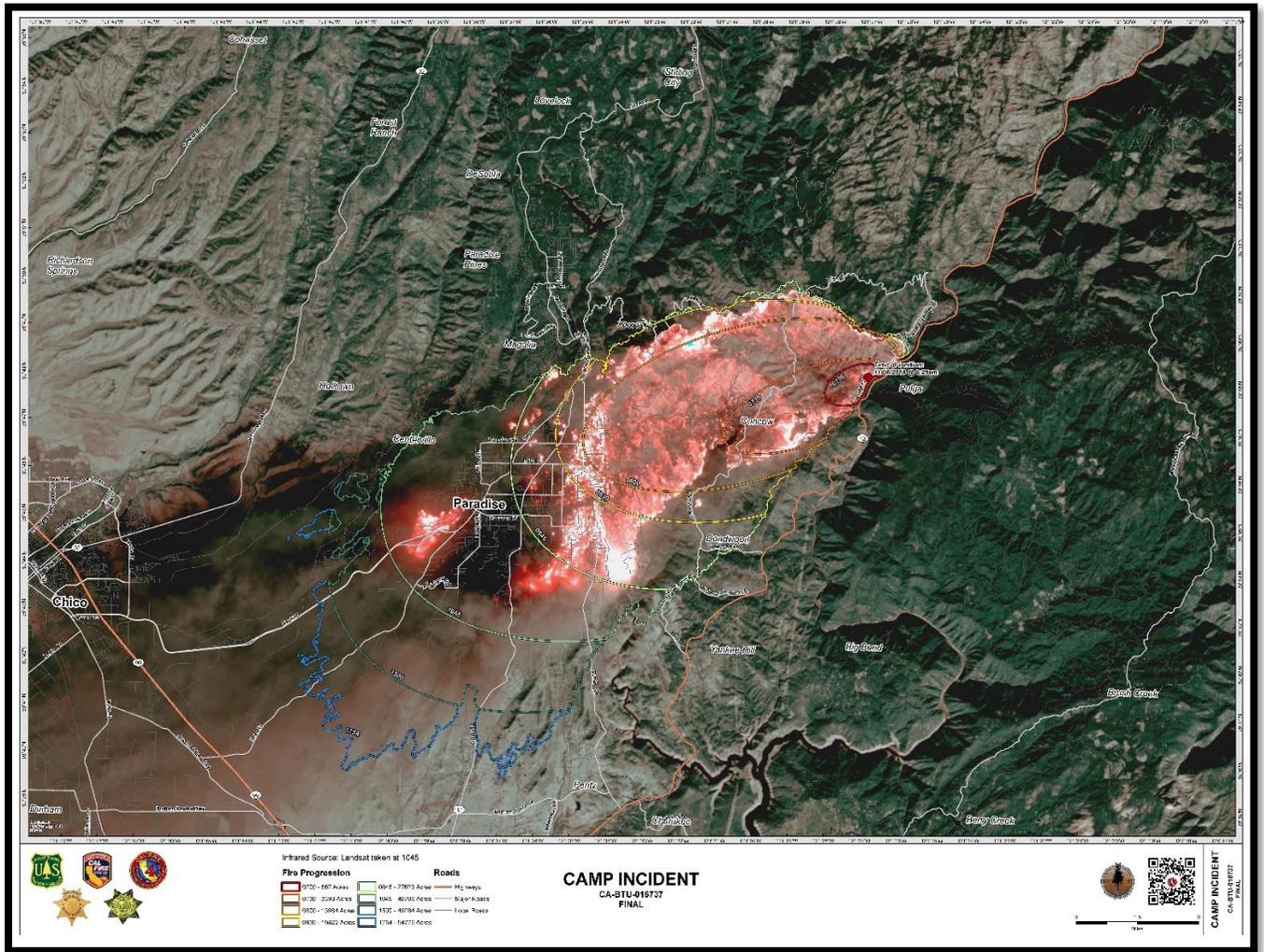


FIRE HISTORY MAP

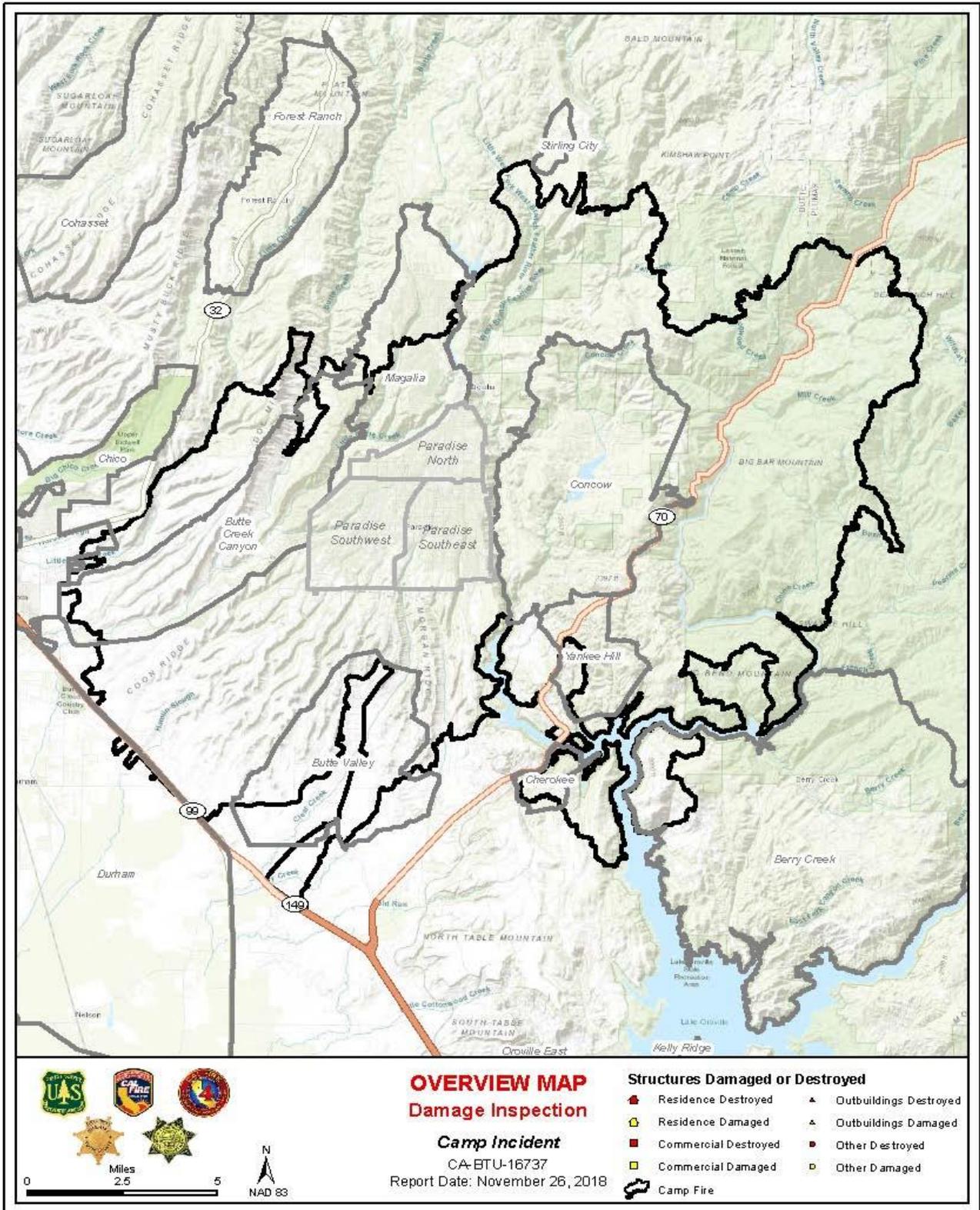


**FIRE PROGRESSION MAP**

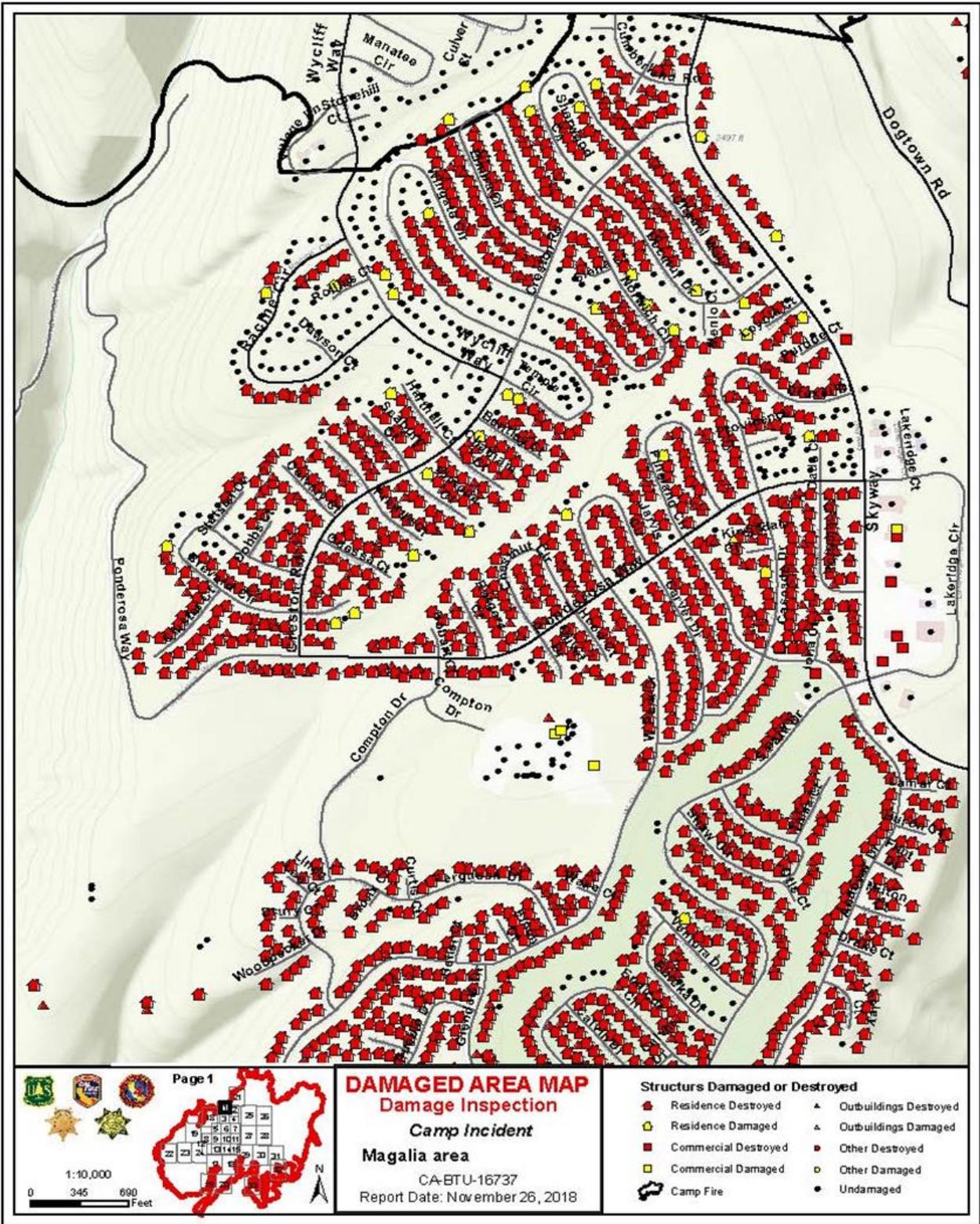


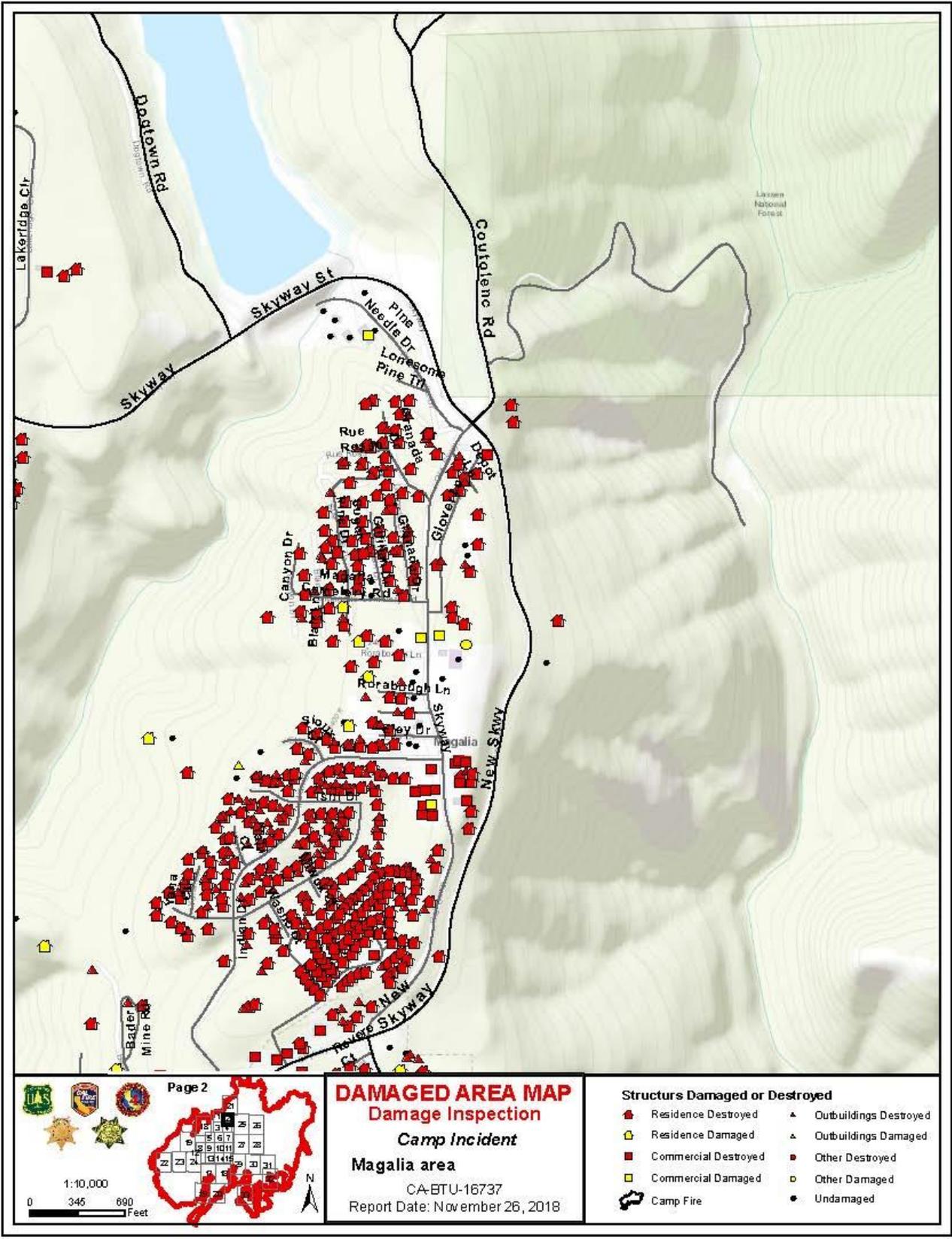


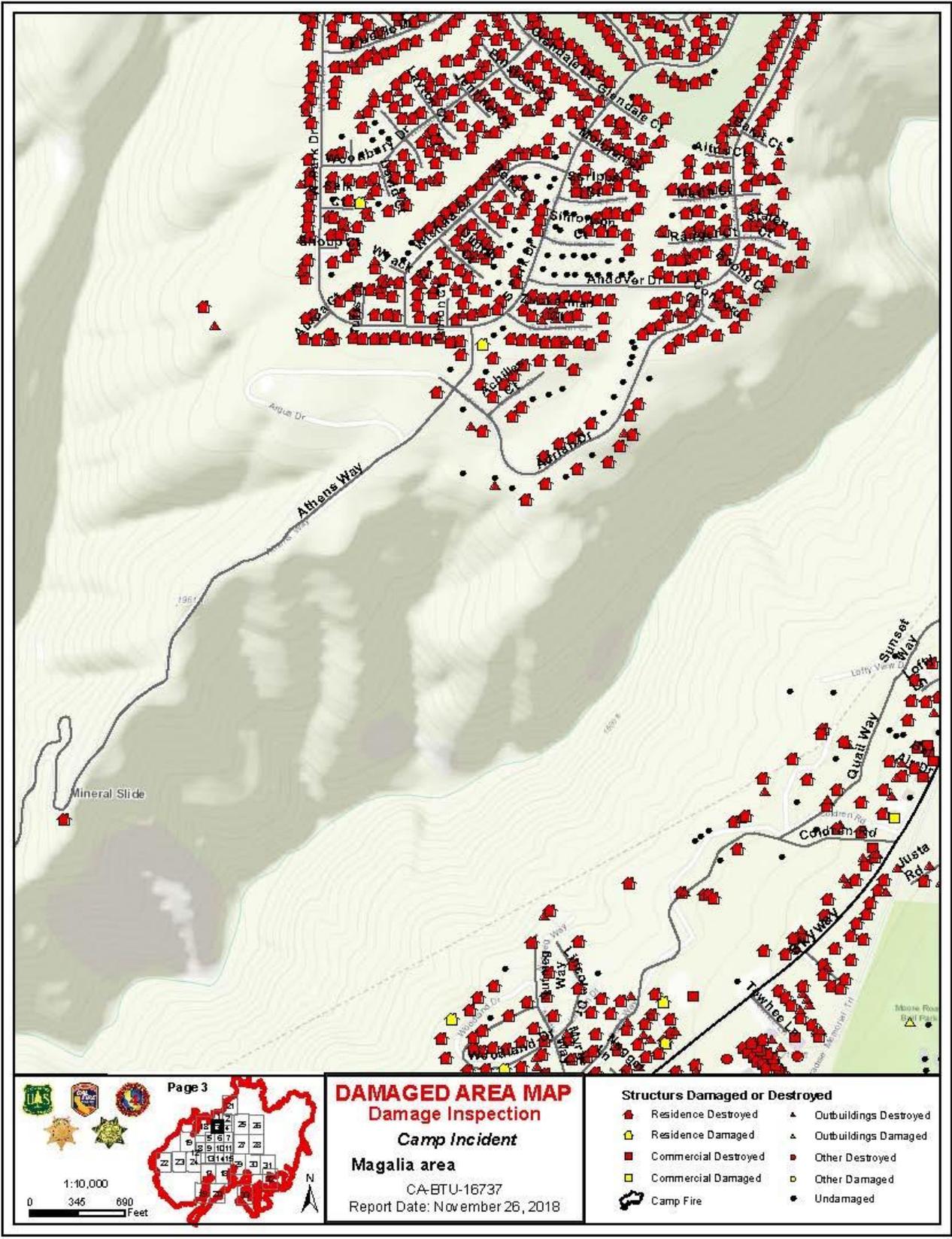
DAMAGE OVERVIEW MAP

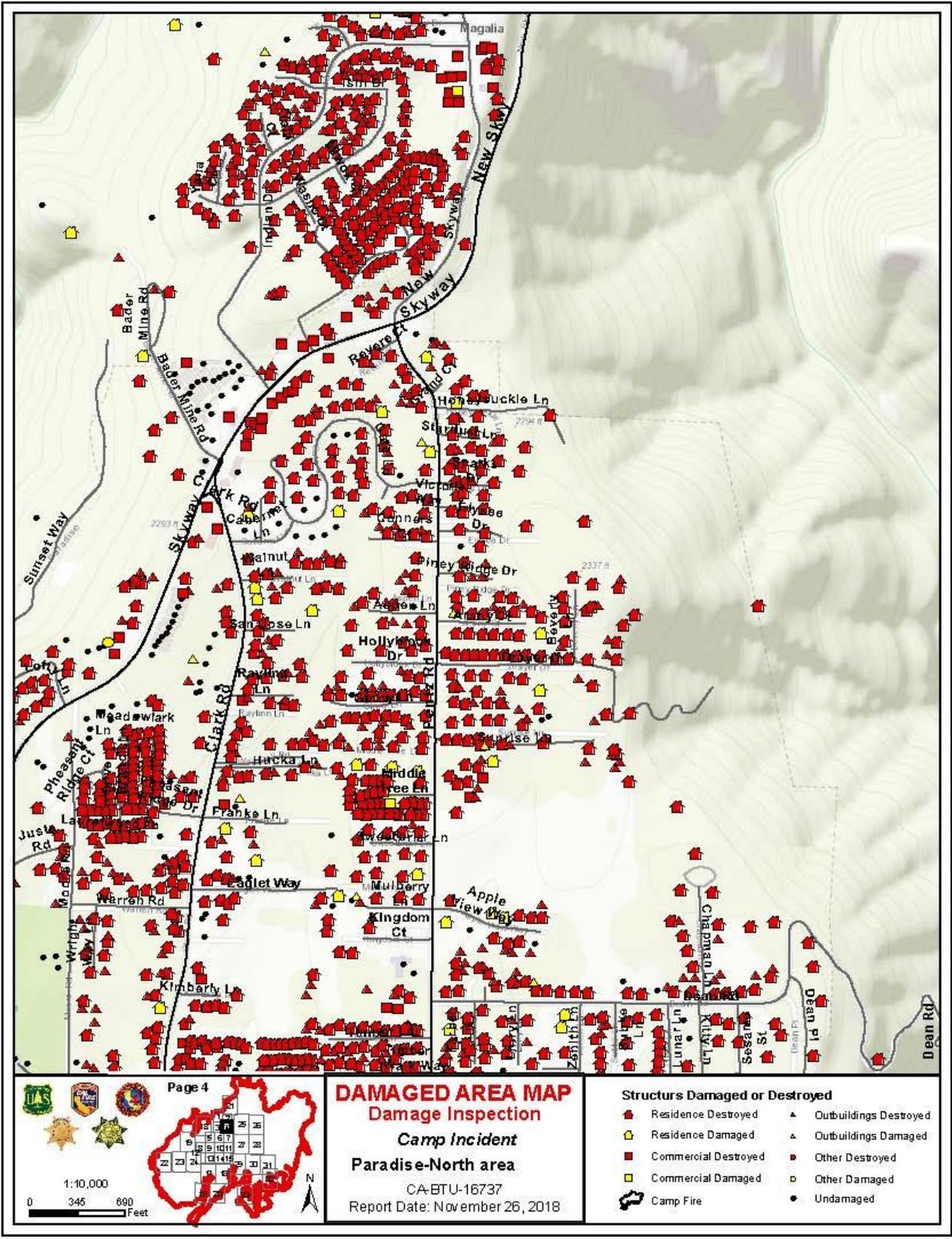


DAMAGED AREA MAPS









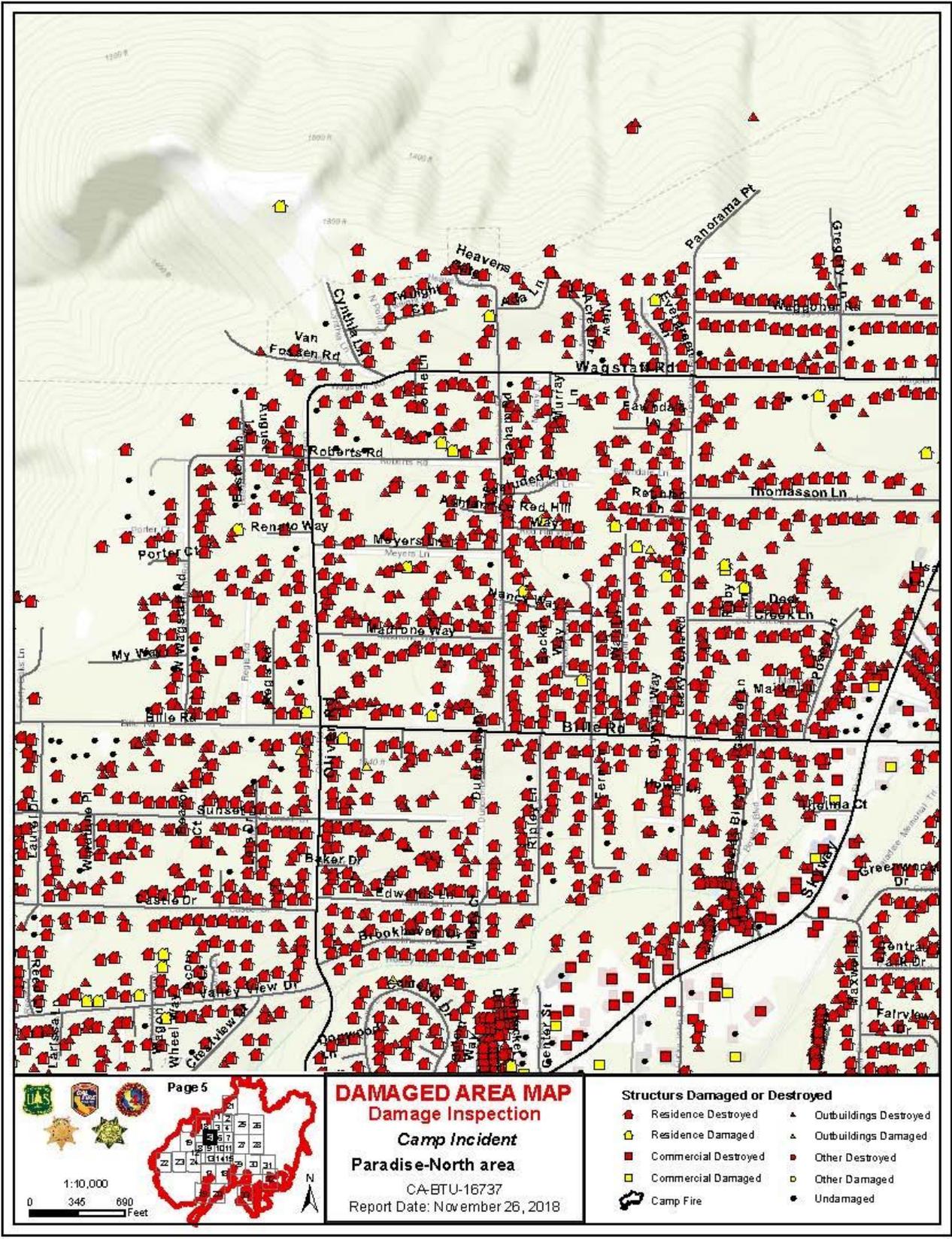
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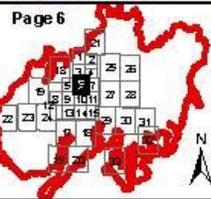
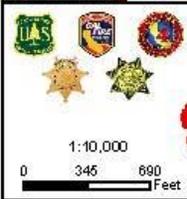
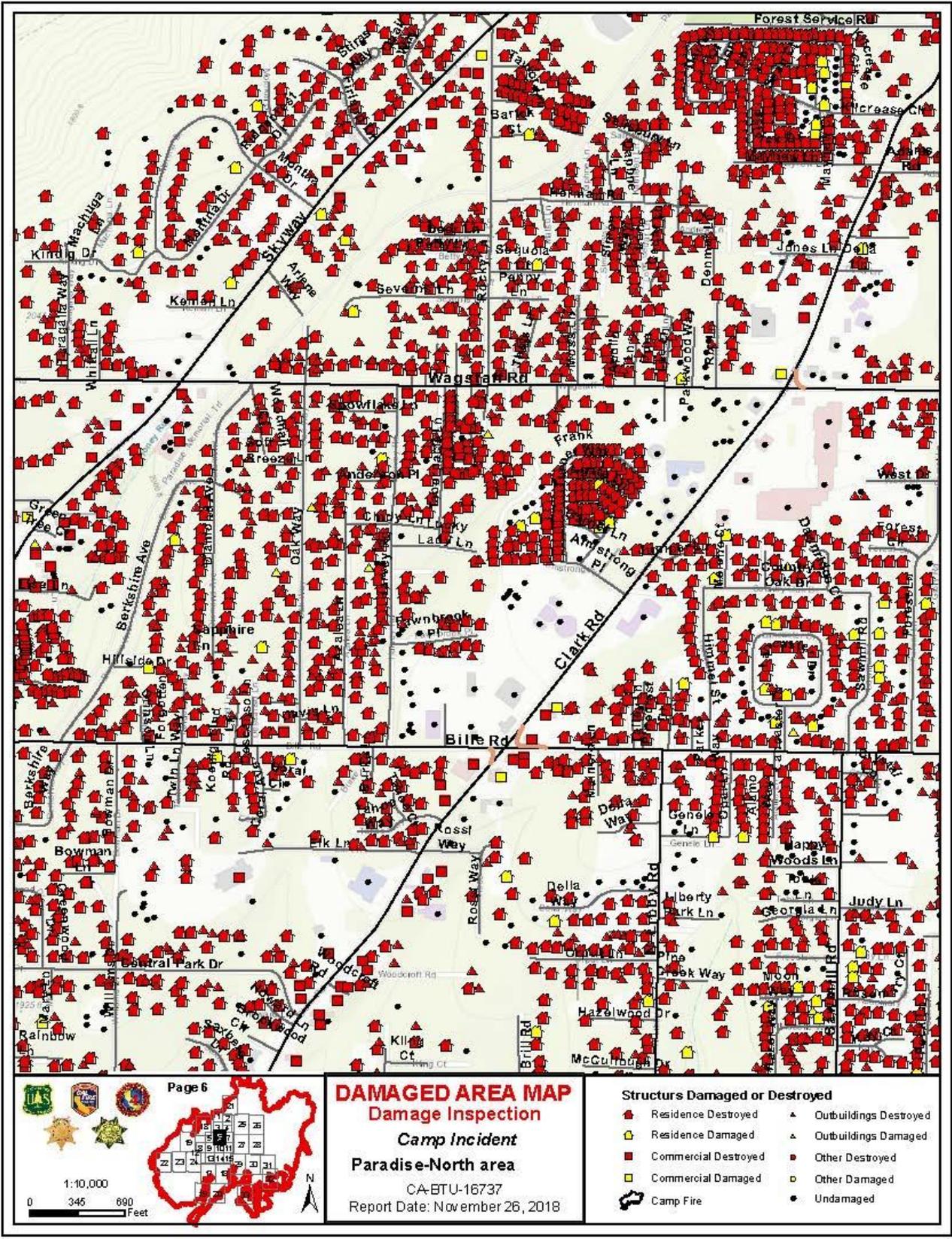
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**DAMAGED AREA MAP**  
 Damage Inspection  
 Camp Incident  
 Paradise-North area  
 CA:BTU-16737  
 Report Date: November 26, 2018

**Structures Damaged or Destroyed**

Residence Destroyed	Residence Damaged	Commercial Destroyed	Commercial Damaged	Outbuildings Destroyed	Outbuildings Damaged
Other Destroyed	Other Damaged	Undamaged	Camp Fire		

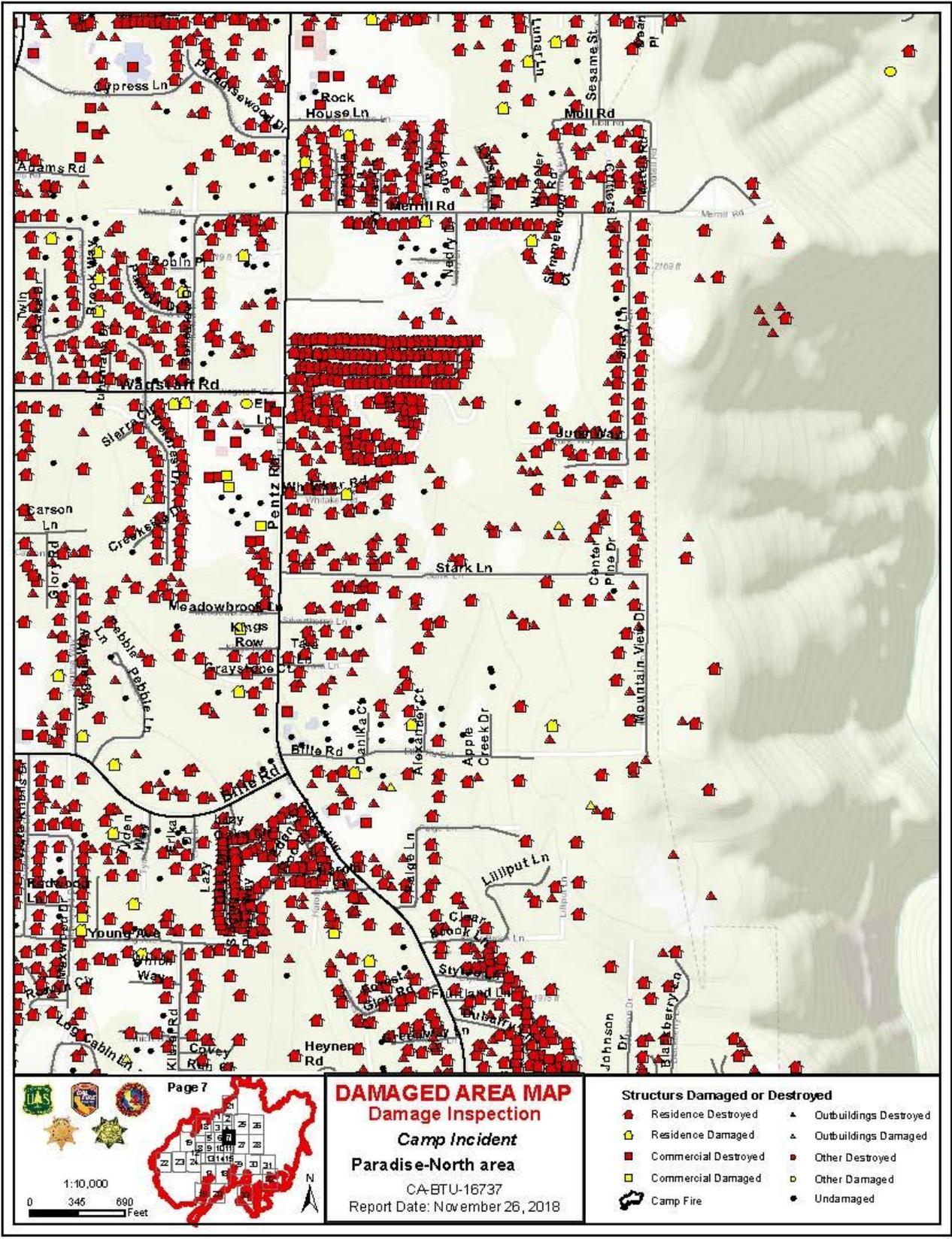




**DAMAGED AREA MAP**  
 Damage Inspection  
 Camp Incident  
 Paradise-North area  
 CA-BTU-16737  
 Report Date: November 26, 2018

Structures Damaged or Destroyed	
Residence Destroyed	Outbuildings Destroyed
Residence Damaged	Outbuildings Damaged
Commercial Destroyed	Other Destroyed
Commercial Damaged	Other Damaged
Camp Fire	Undamaged

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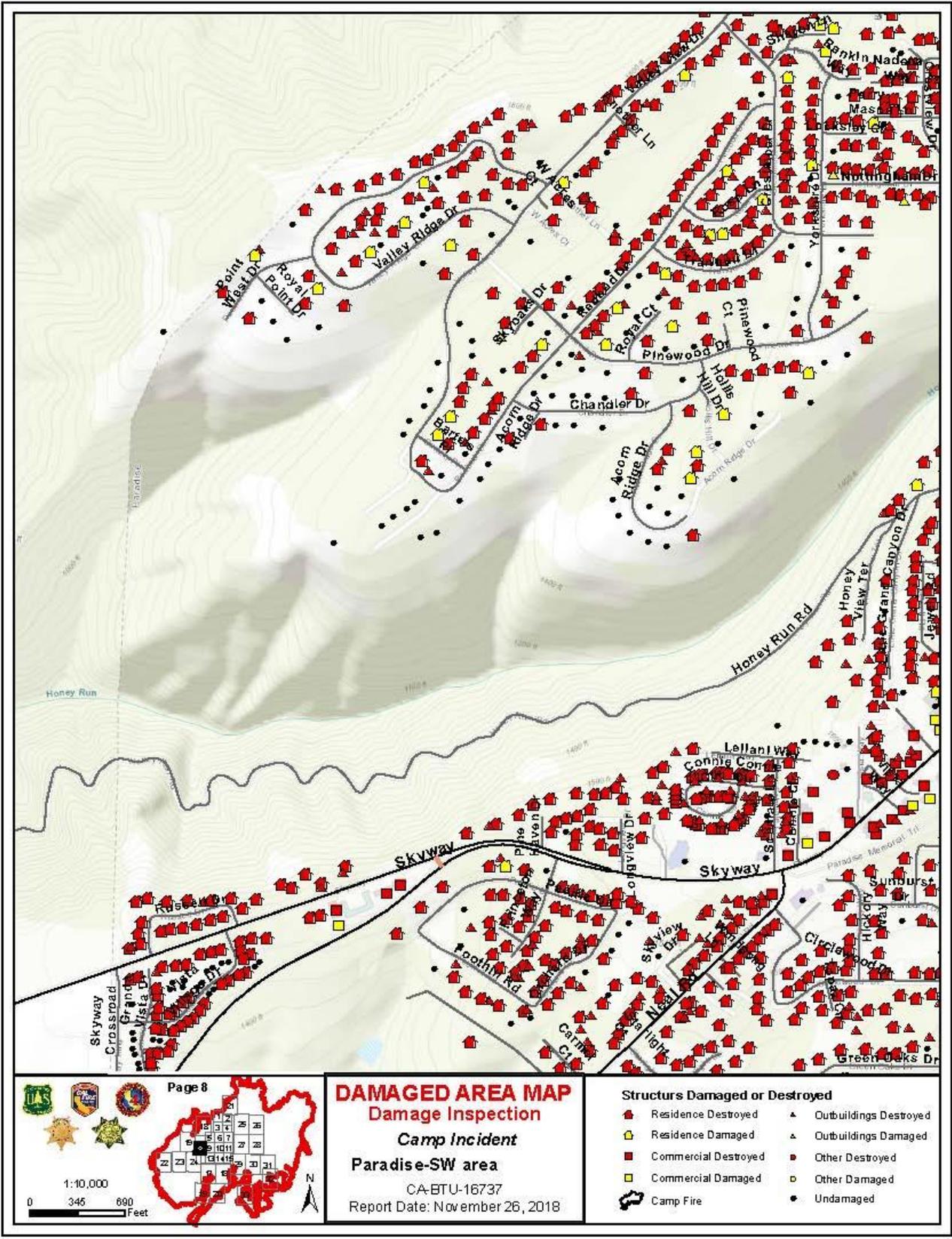
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 Damage Inspection  
 Camp Incident  
 Paradise-North area  
 CA-BTU-16737  
 Report Date: November 26, 2018

- Structures Damaged or Destroyed**
- ▲ Residence Destroyed
  - ▲ Residence Damaged
  - Commercial Destroyed
  - Commercial Damaged
  - ▲ Outbuildings Destroyed
  - ▲ Outbuildings Damaged
  - Other Destroyed
  - Other Damaged
  - Camp Fire
  - Undamaged

Page 7

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Logos: US Forest Service, California State Fire Marshal, Paradise Fire District, and others.

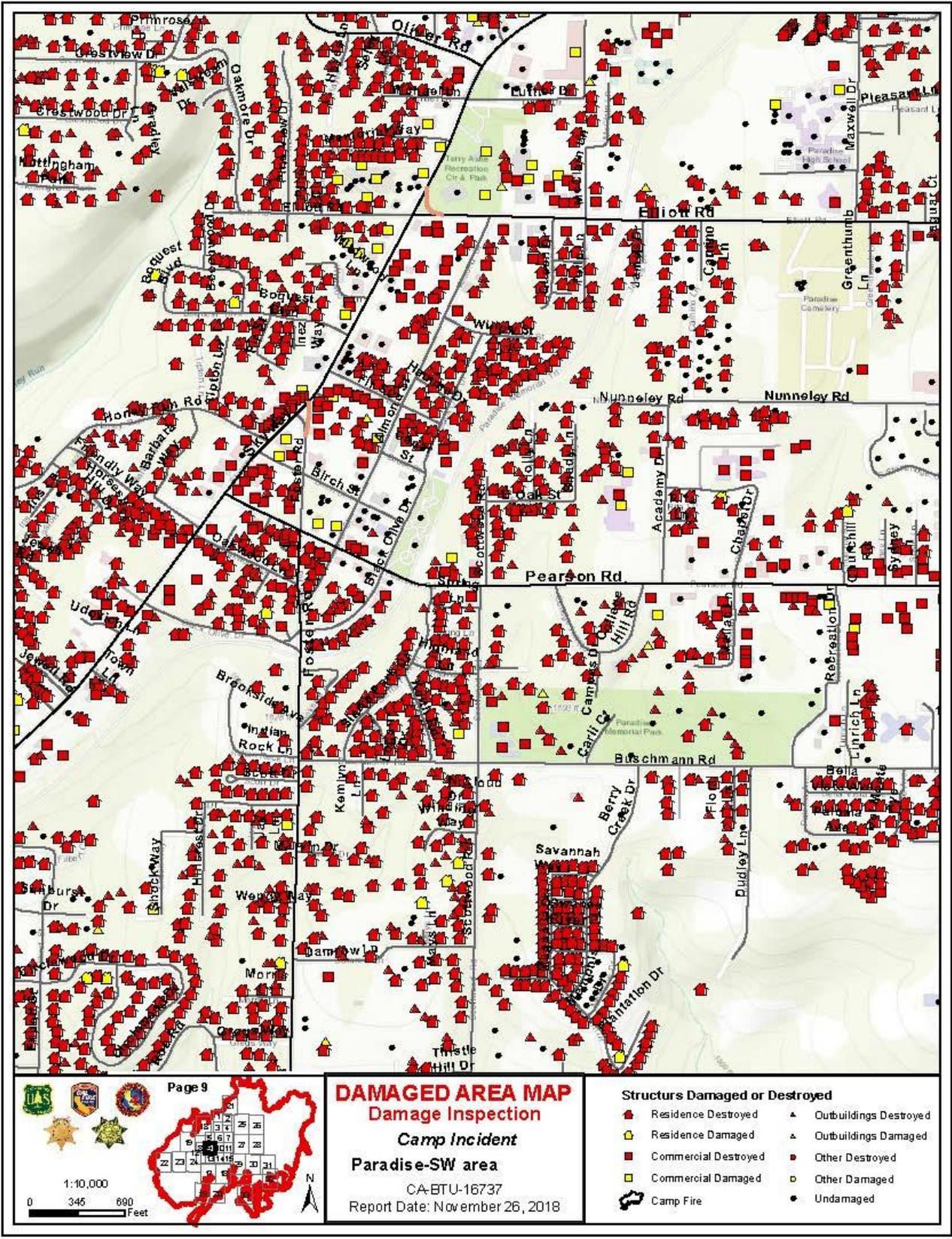


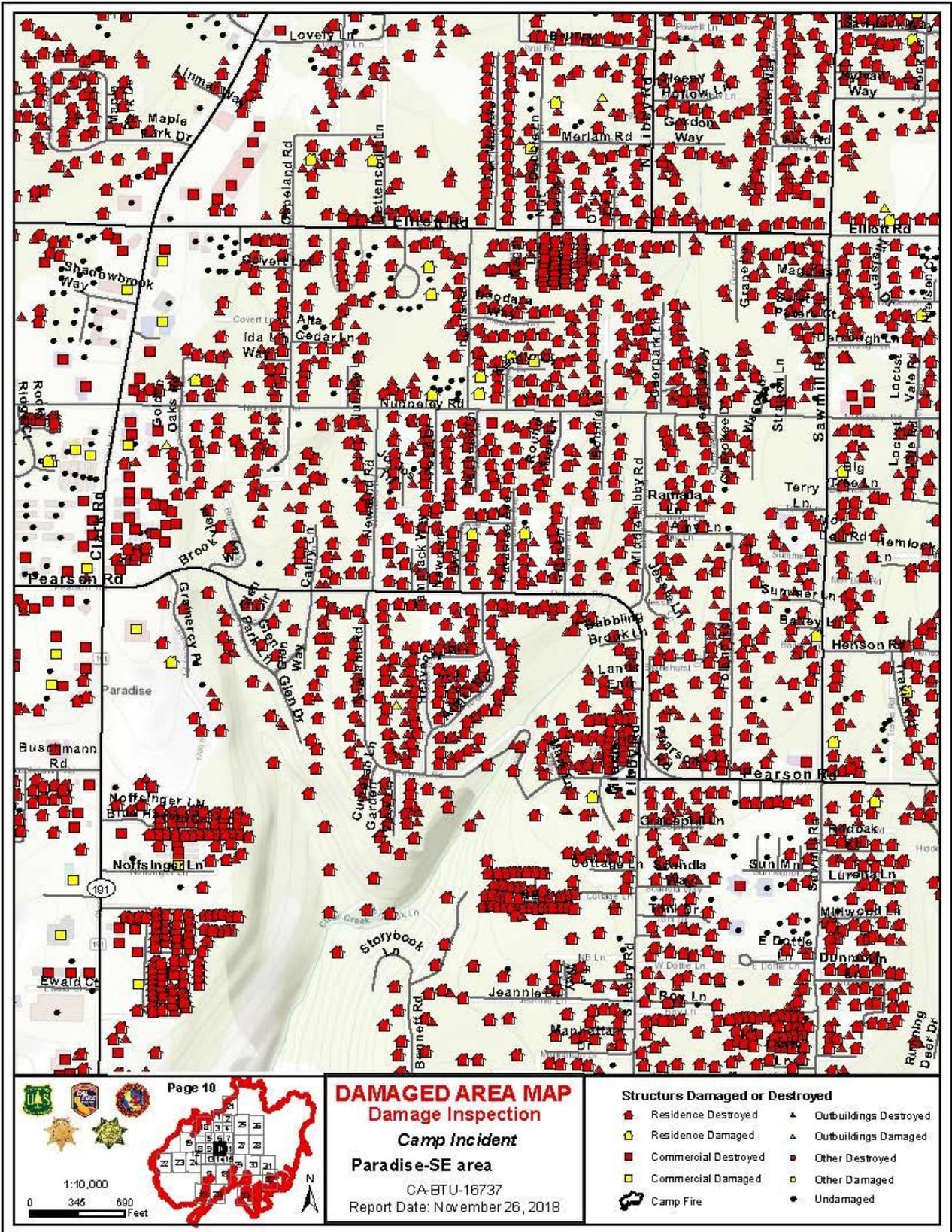
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**DAMAGED AREA MAP**  
 Damage Inspection  
 Camp Incident  
 Paradise-SW area  
 CA:BTU-16737  
 Report Date: November 26, 2018

- Structures Damaged or Destroyed**
- ▲ Residence Destroyed
  - ▲ Residence Damaged
  - Commercial Destroyed
  - Commercial Damaged
  - 🔥 Camp Fire
  - ▲ Outbuildings Destroyed
  - ▲ Outbuildings Damaged
  - Other Destroyed
  - Other Damaged
  - Undamaged



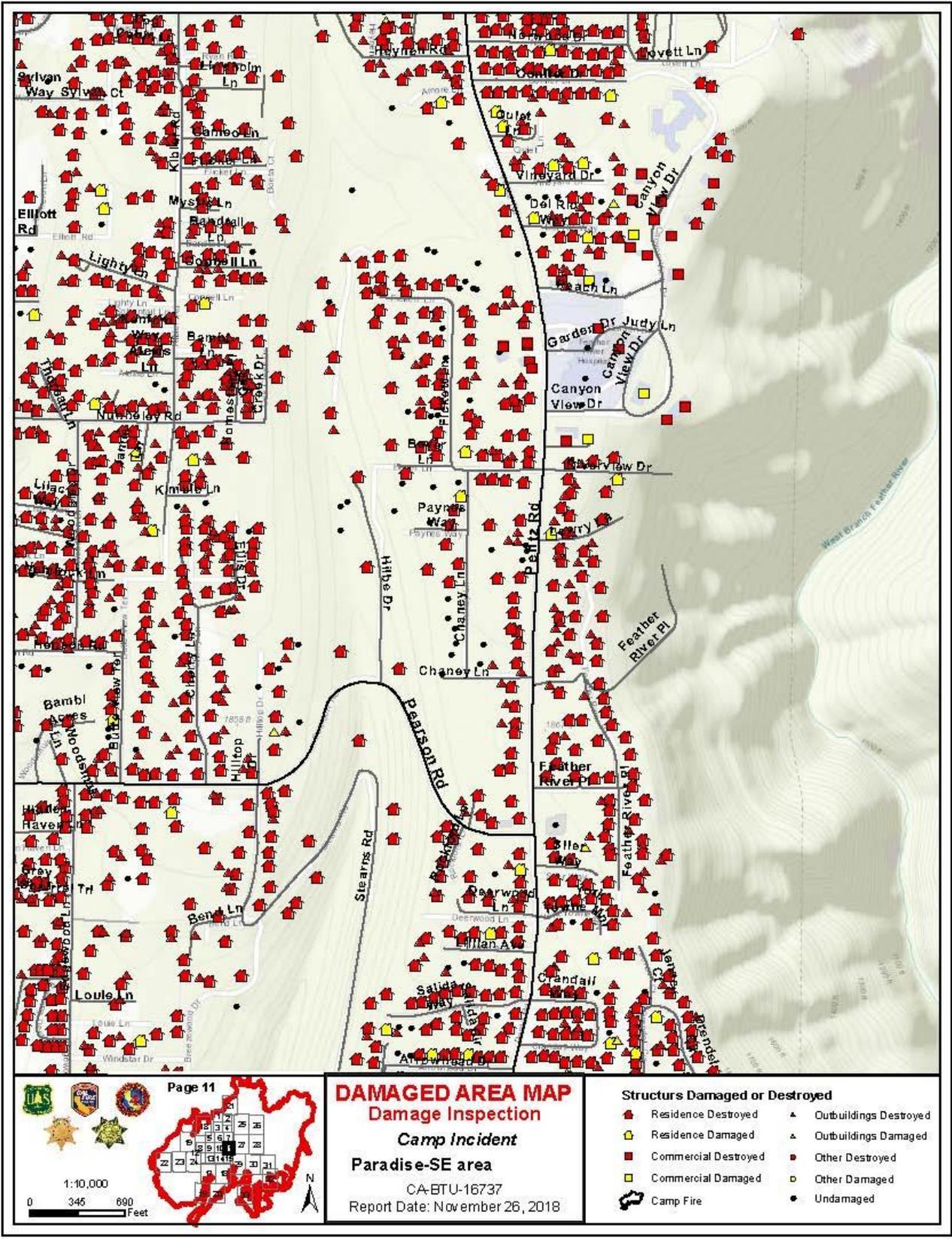


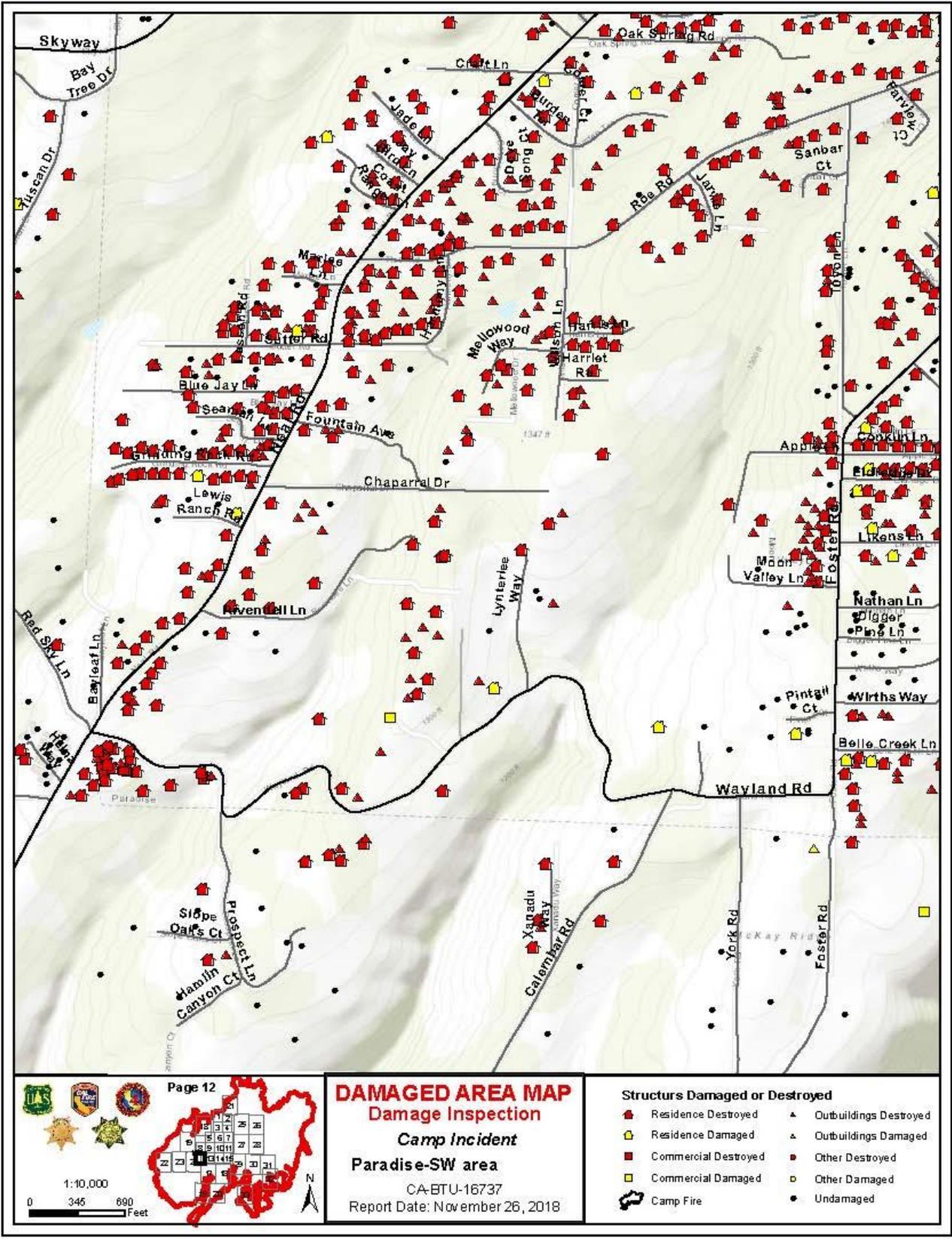
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**DAMAGED AREA MAP**  
 Damage Inspection  
 Camp Incident  
 Paradise-SE area  
 CA-BTU-16737  
 Report Date: November 26, 2018

- Structures Damaged or Destroyed**
- ▲ Residence Destroyed
  - ▲ Residence Damaged
  - Commercial Destroyed
  - Commercial Damaged
  - 🔥 Camp Fire
  - ▲ Outbuildings Destroyed
  - ▲ Outbuildings Damaged
  - Other Destroyed
  - Other Damaged
  - Undamaged



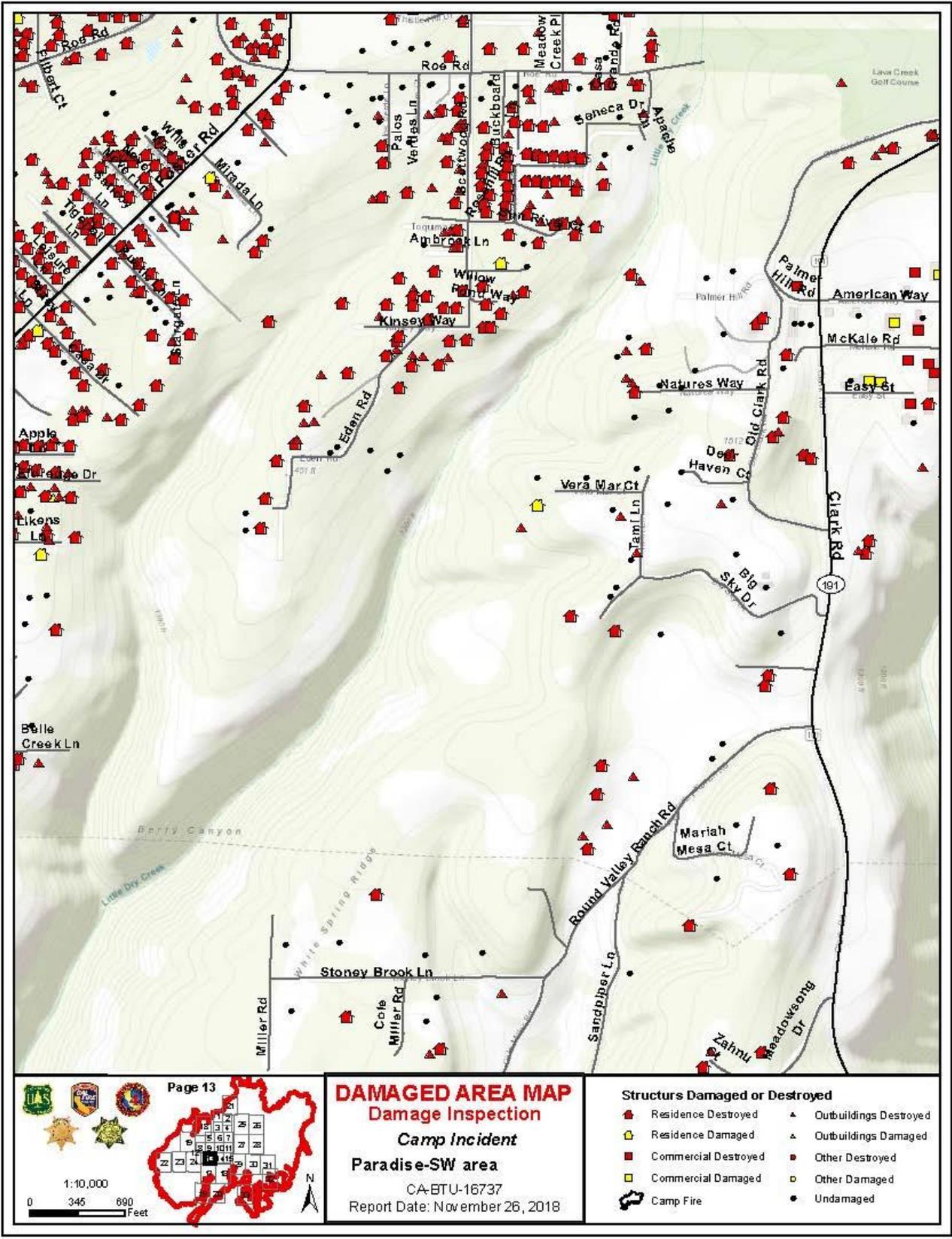


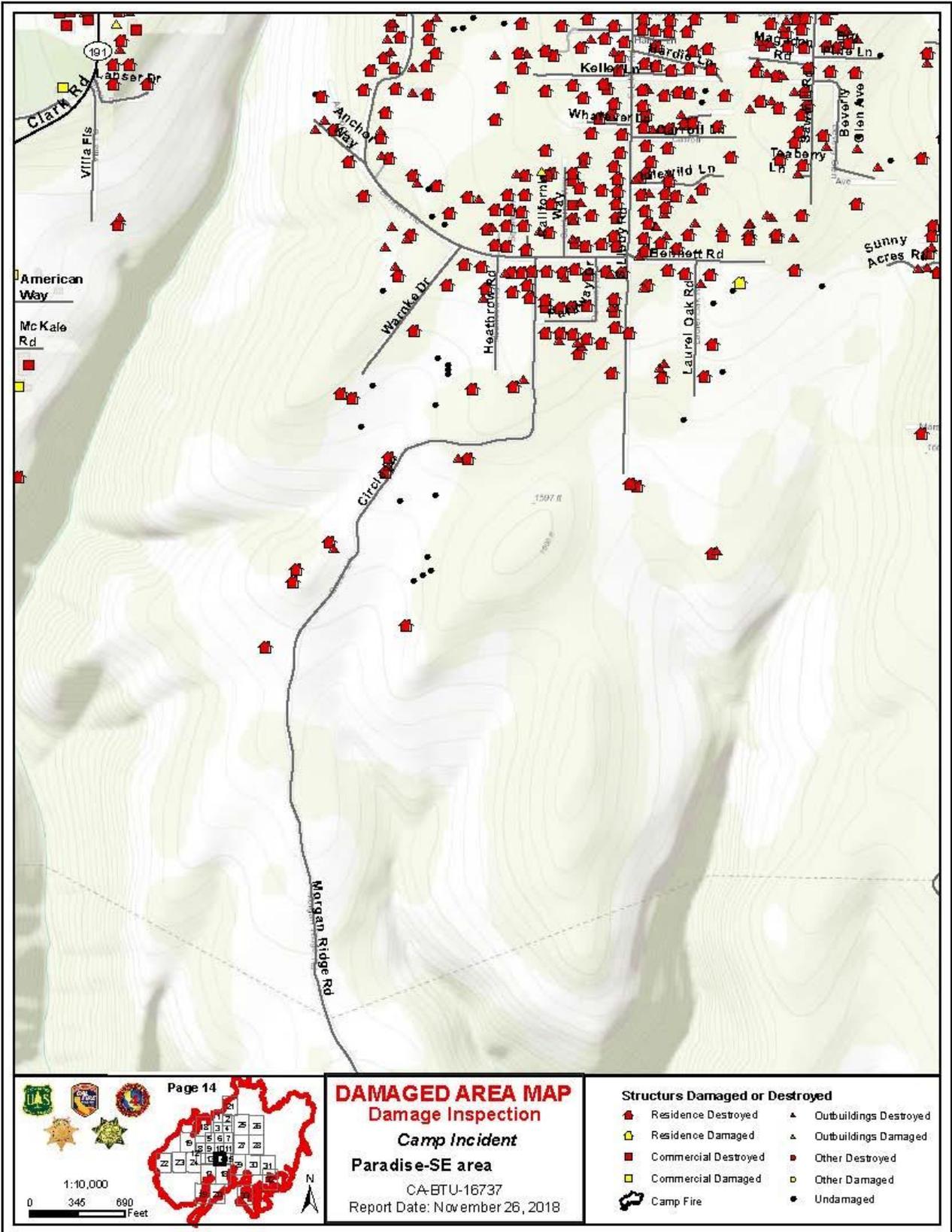
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 Damage Inspection  
 Camp Incident  
 Paradise-SW area  
 CA:BTU-16737  
 Report Date: November 26, 2018

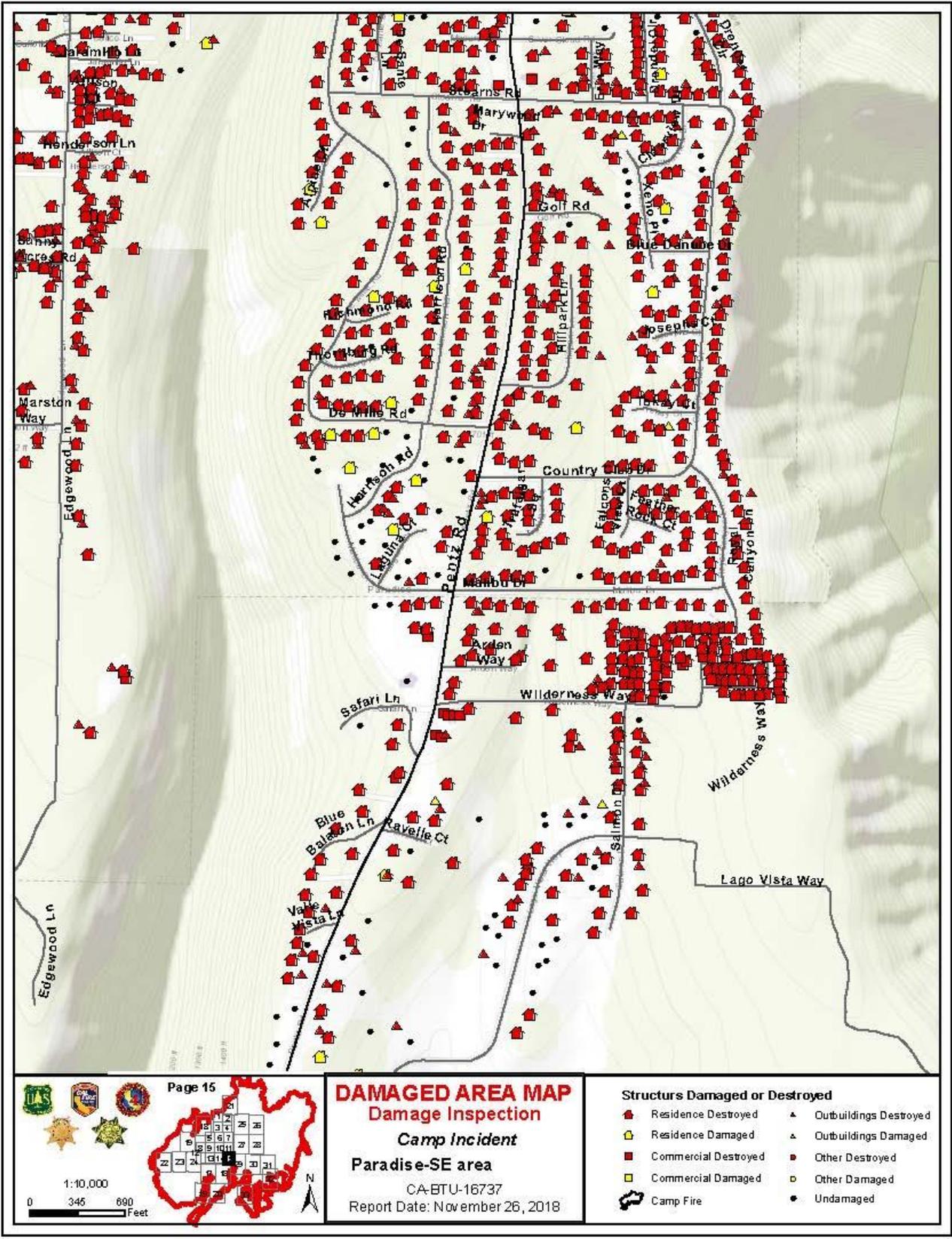
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- 🏠 Residence Destroyed
  - 🏠 Residence Damaged
  - 🏢 Commercial Destroyed
  - 🏢 Commercial Damaged
  - 🔥 Camp Fire
  - 🏠 Outbuildings Destroyed
  - 🏠 Outbuildings Damaged
  - 🏠 Other Destroyed
  - 🏠 Other Damaged
  - ⬤ Undamaged

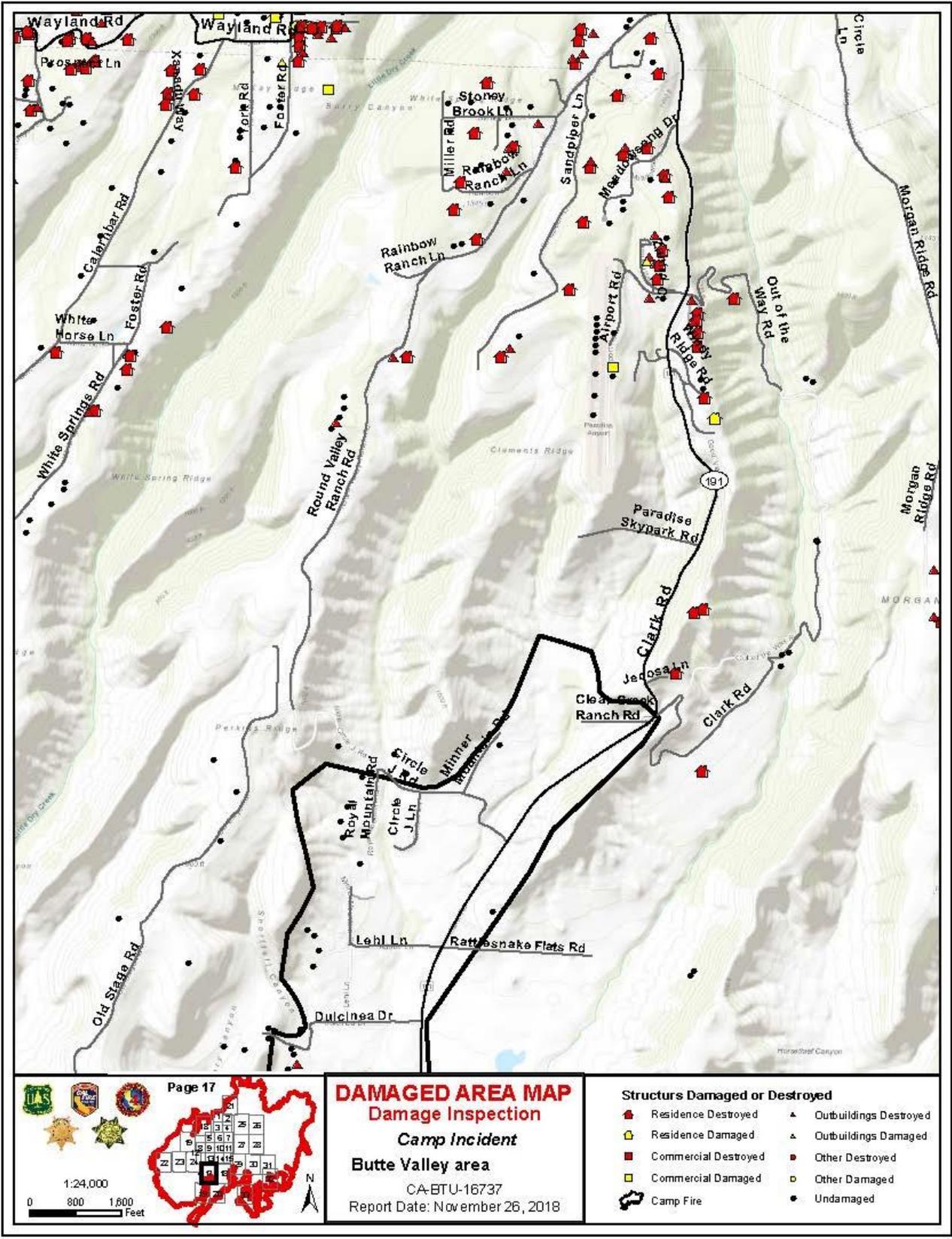
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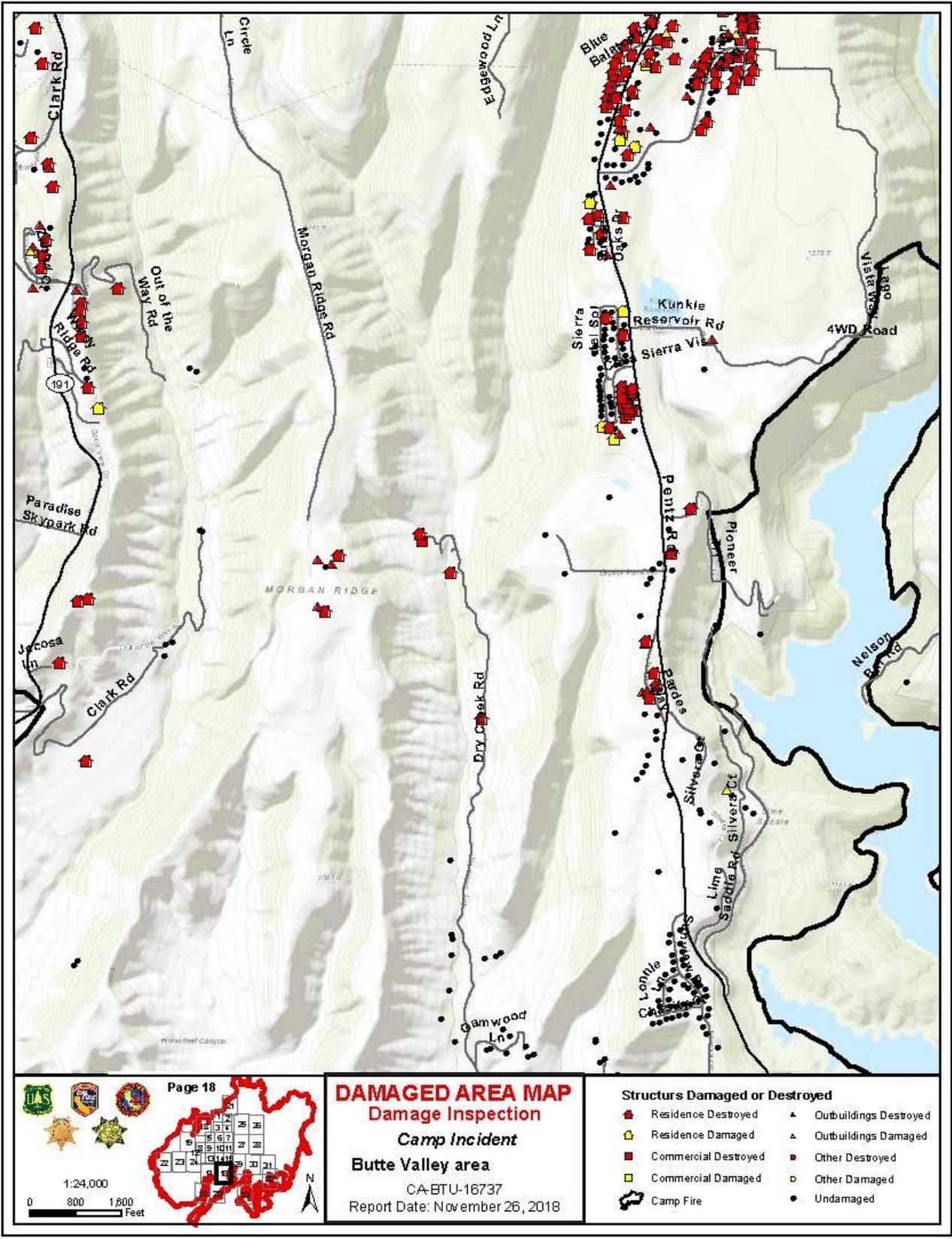
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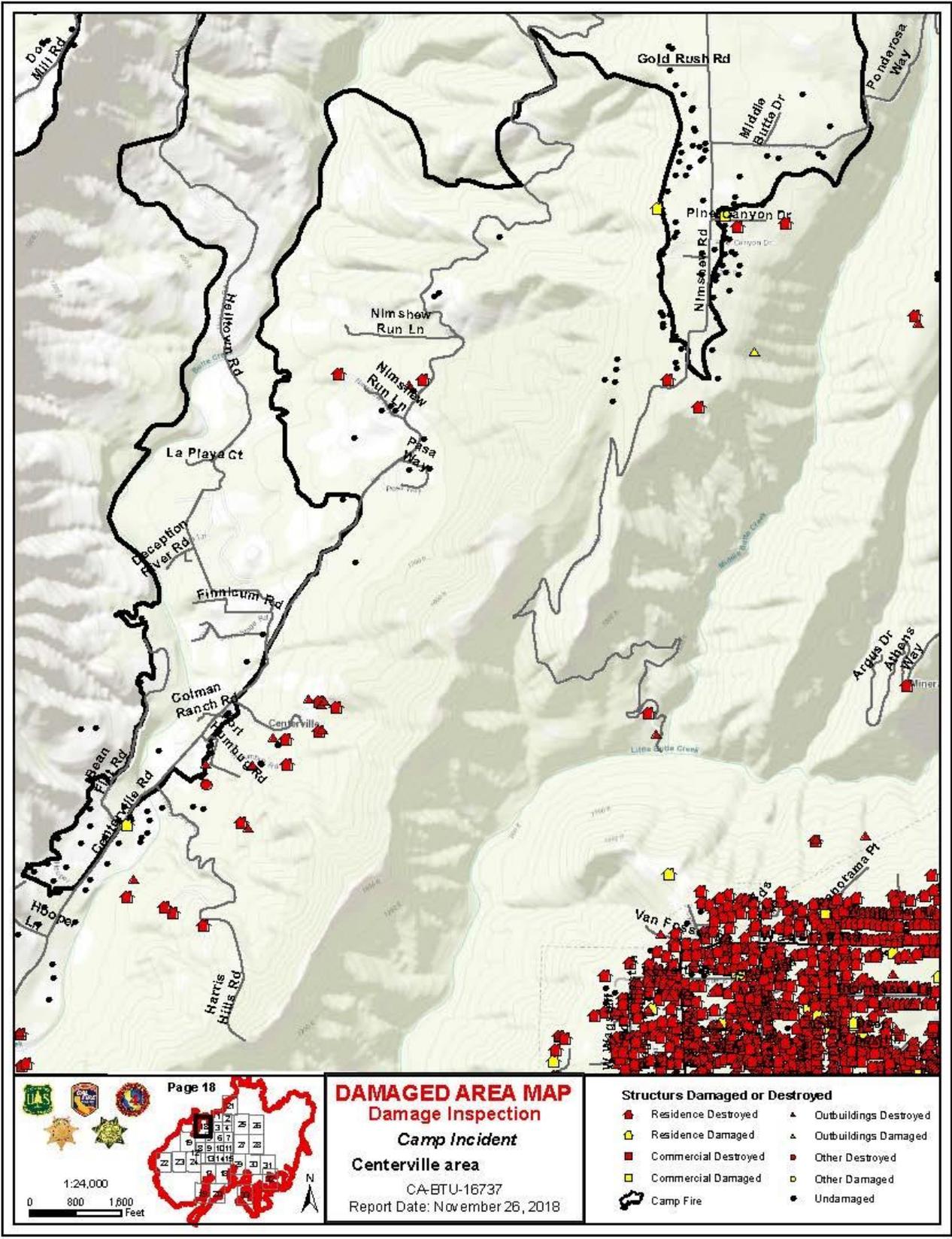


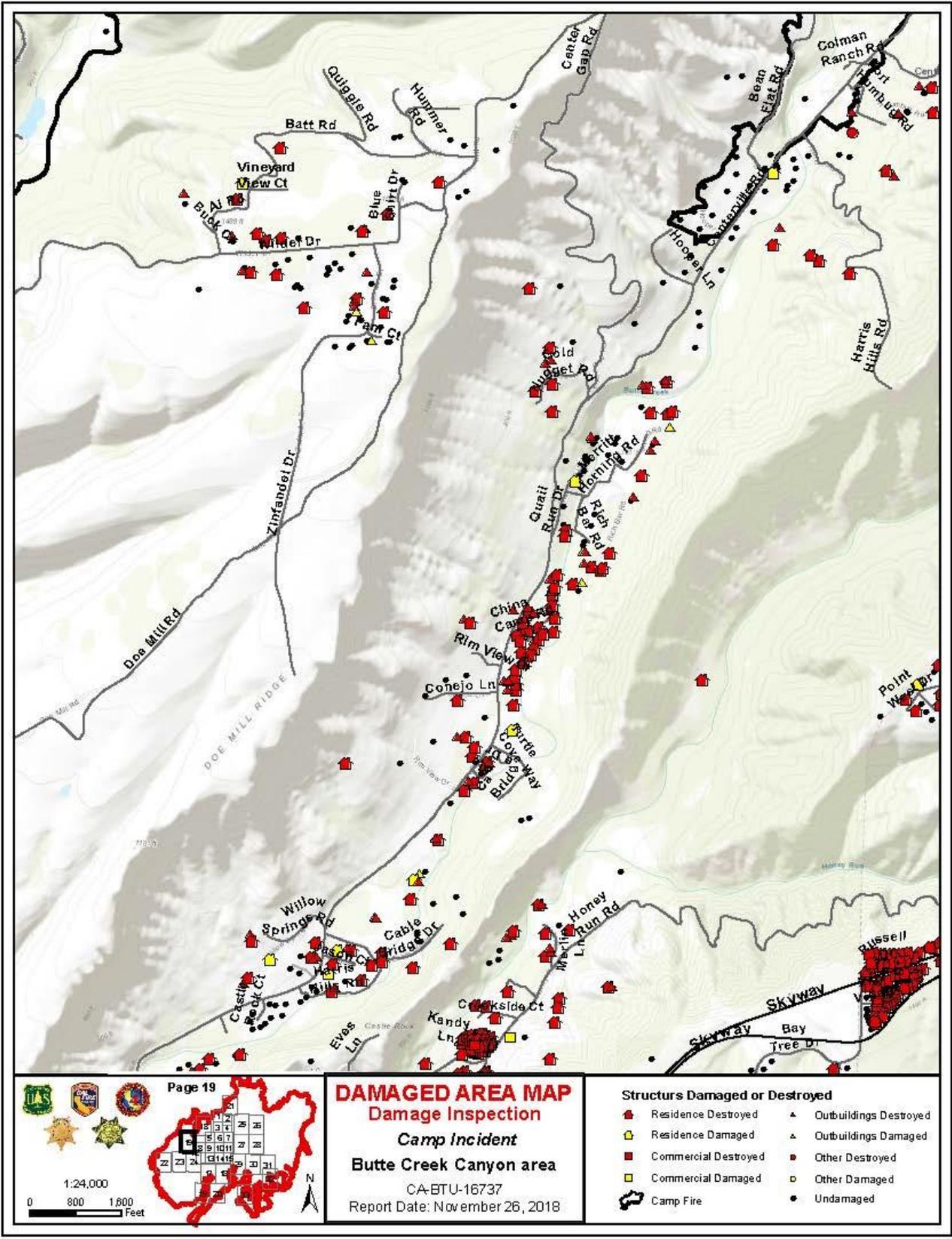


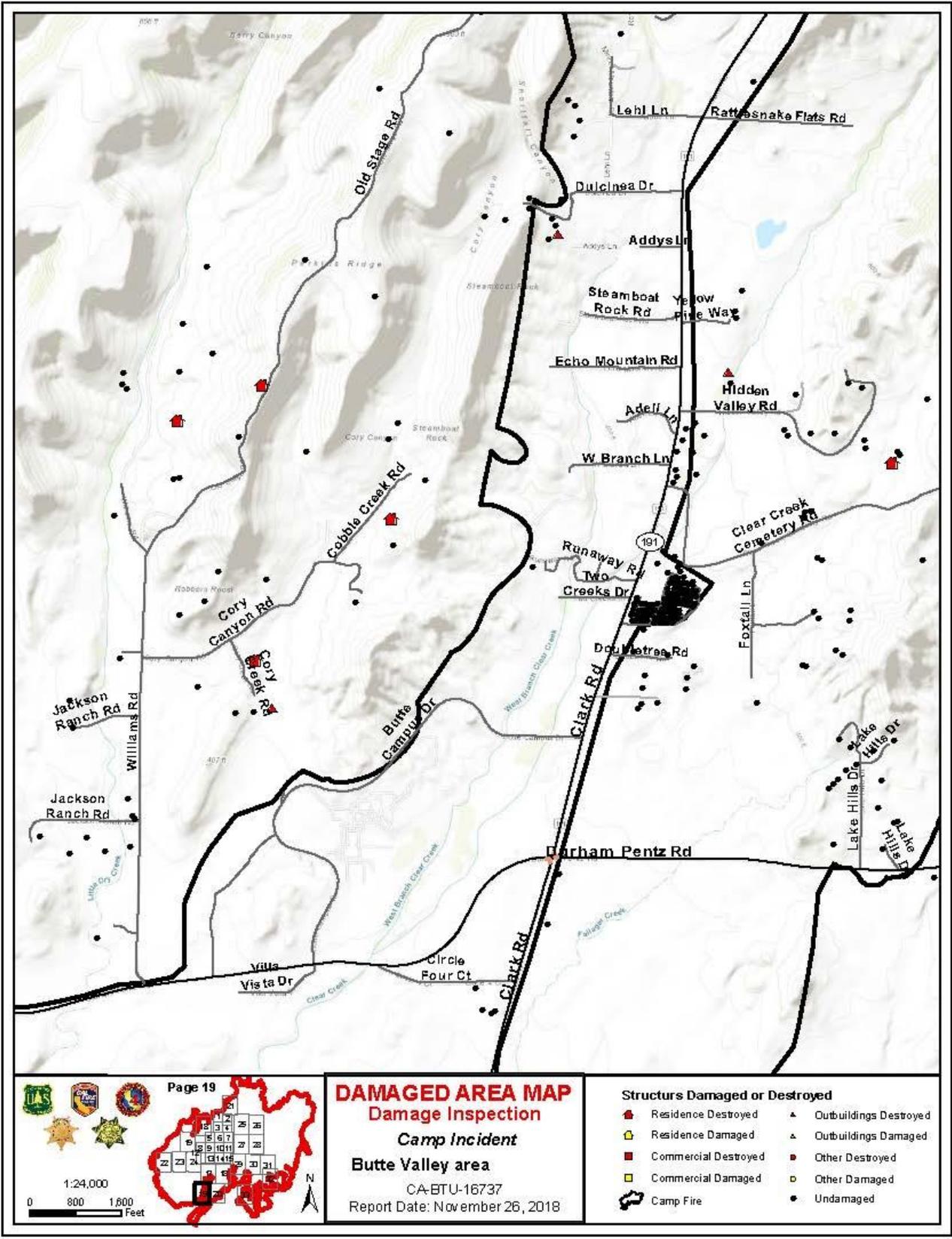


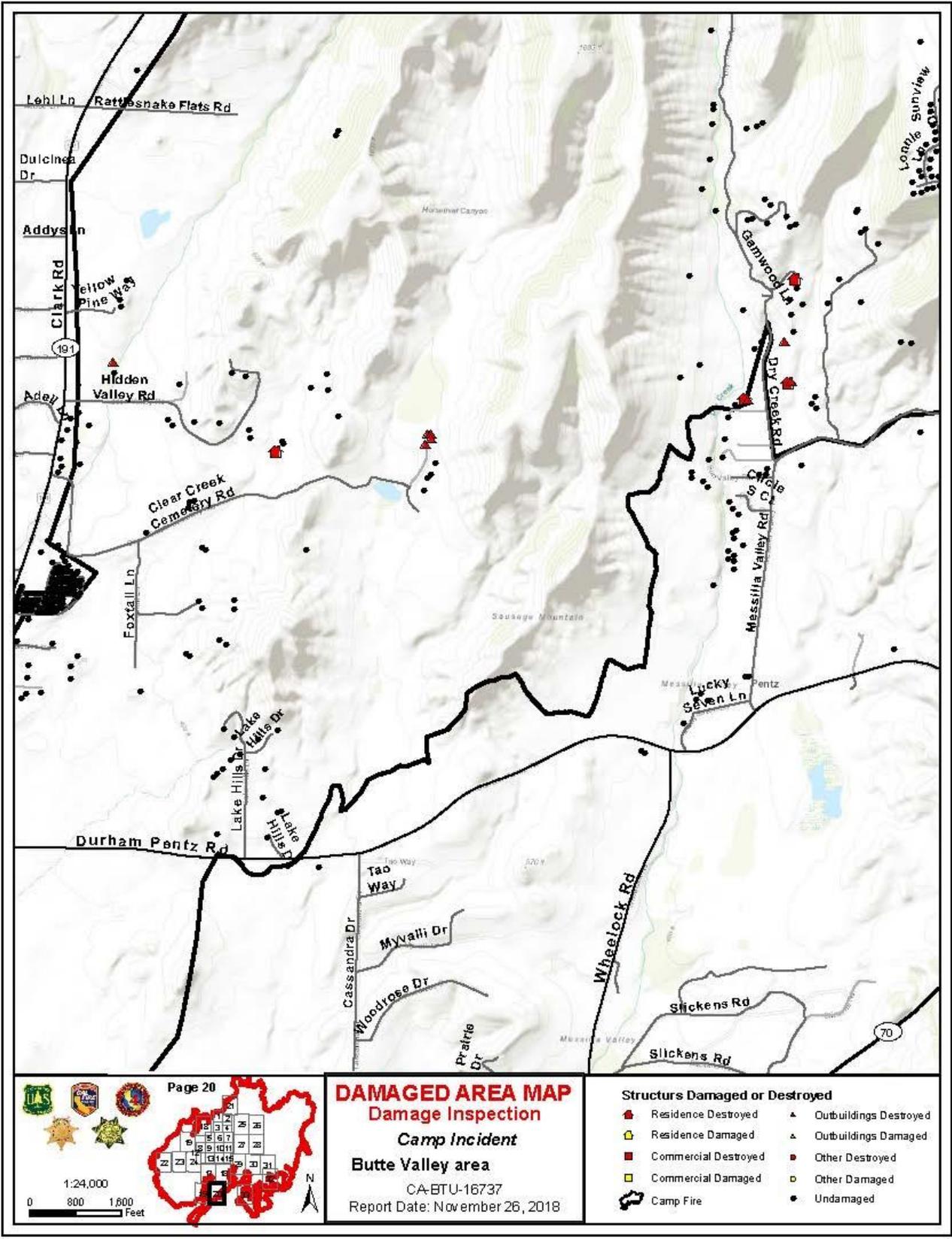












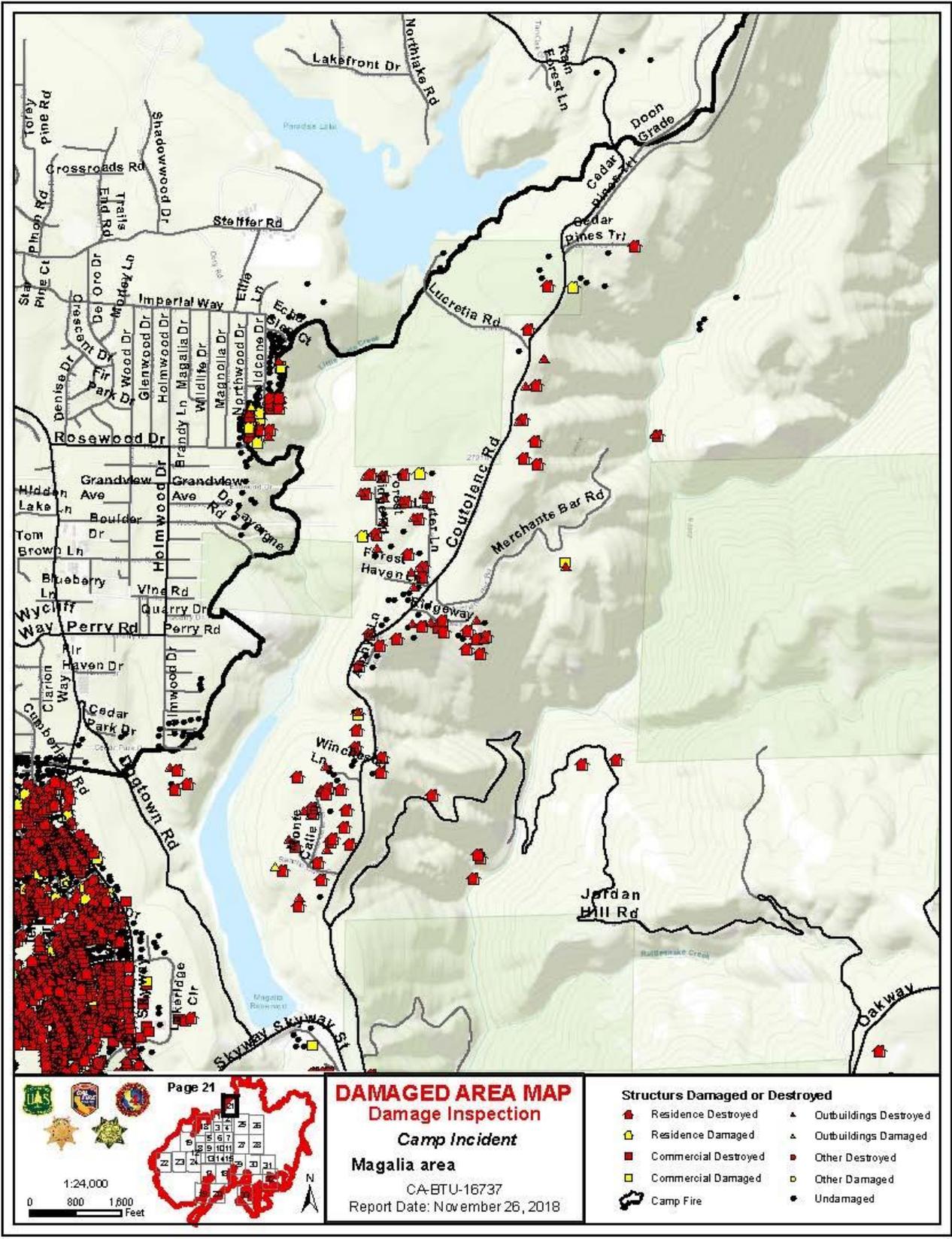
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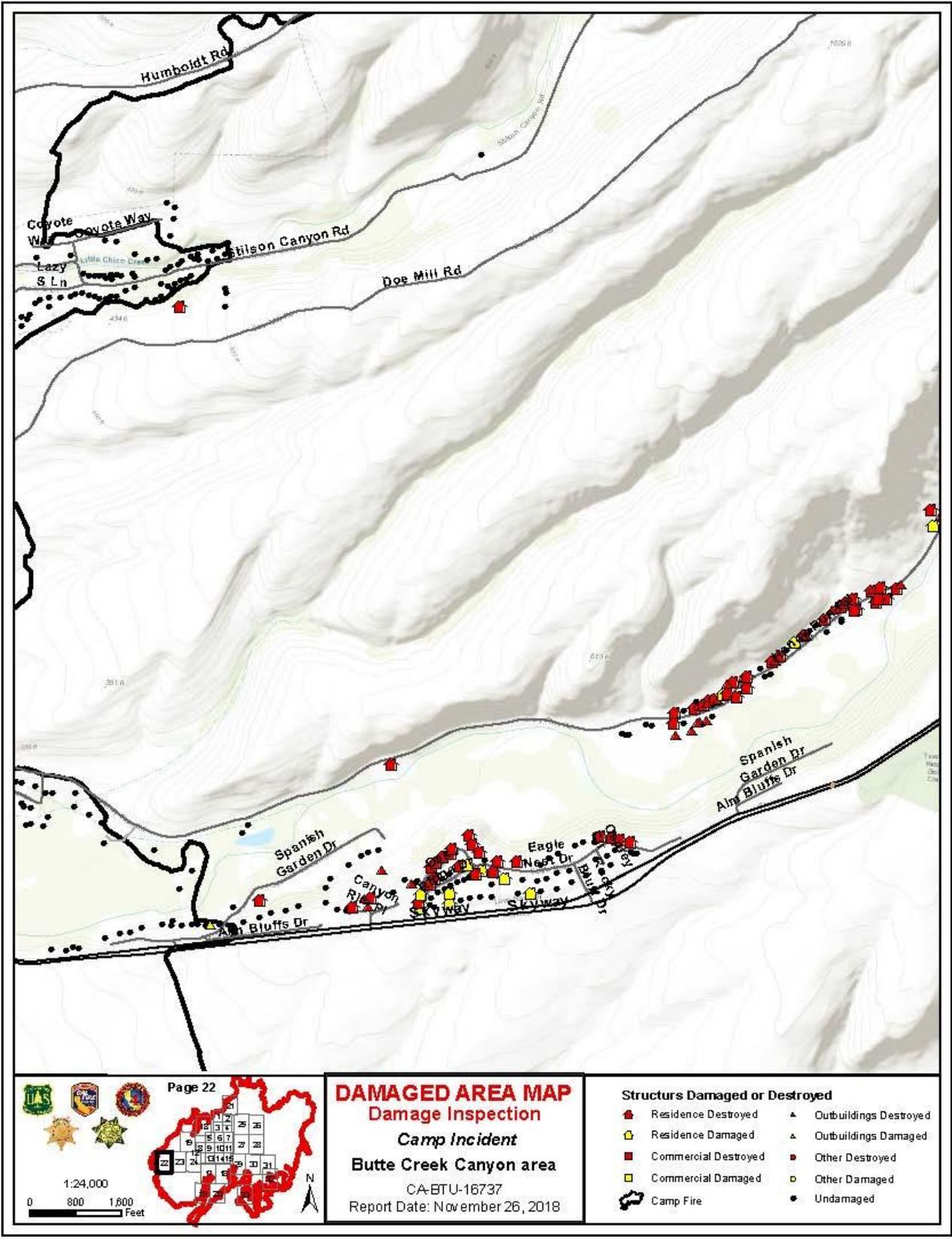
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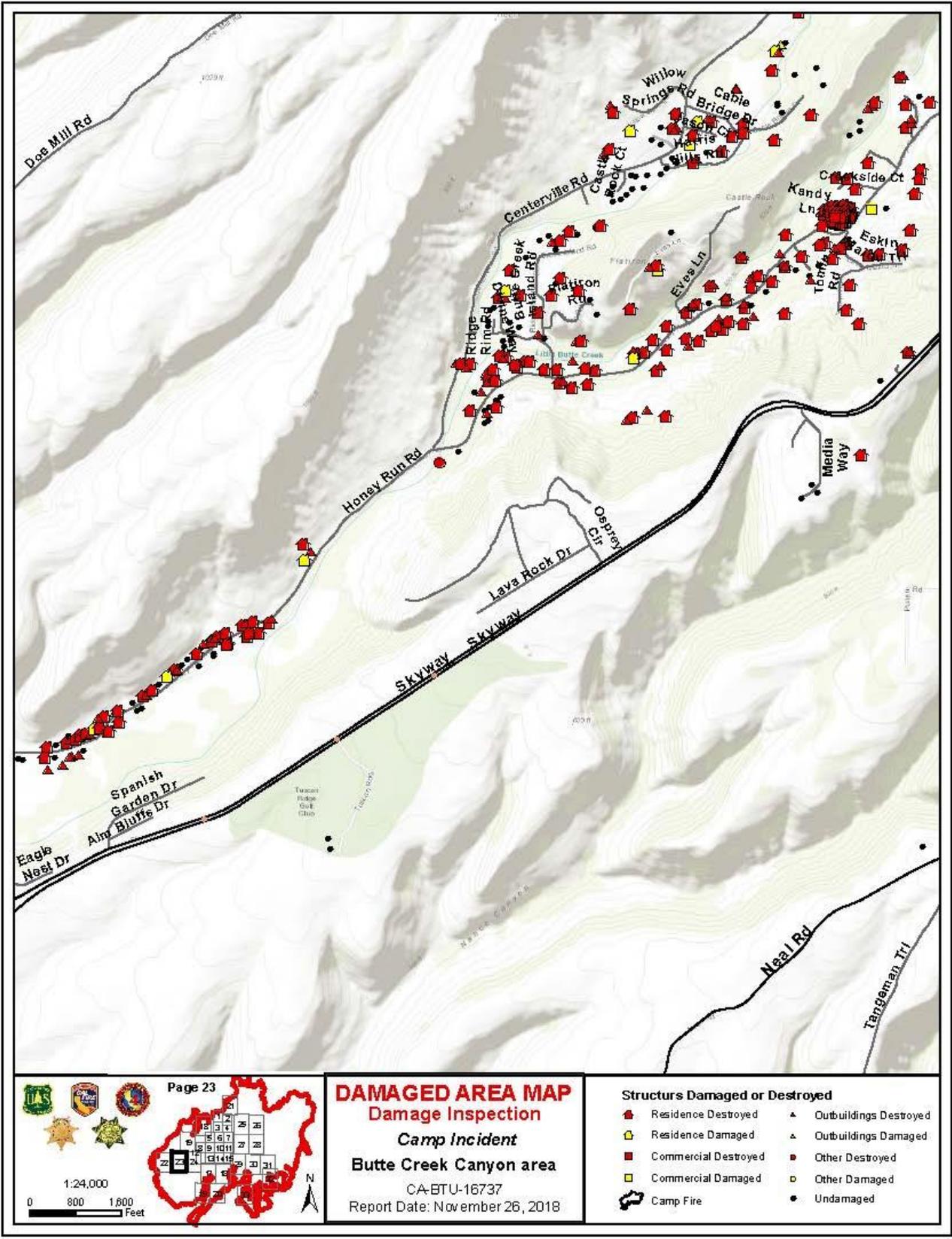
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 Damage Inspection  
 Camp Incident  
 Butte Valley area  
 CA:BTU-16737  
 Report Date: November 26, 2018

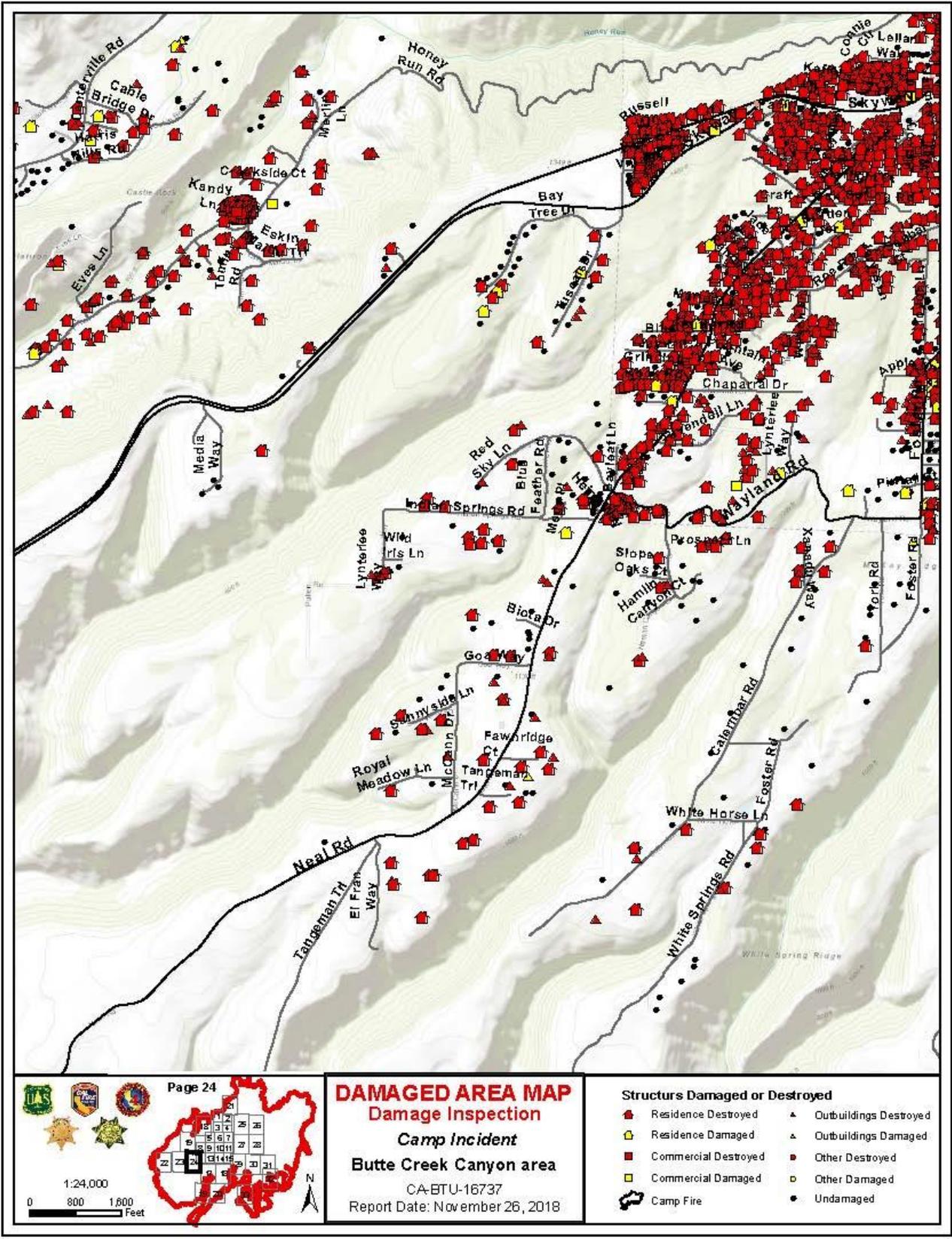
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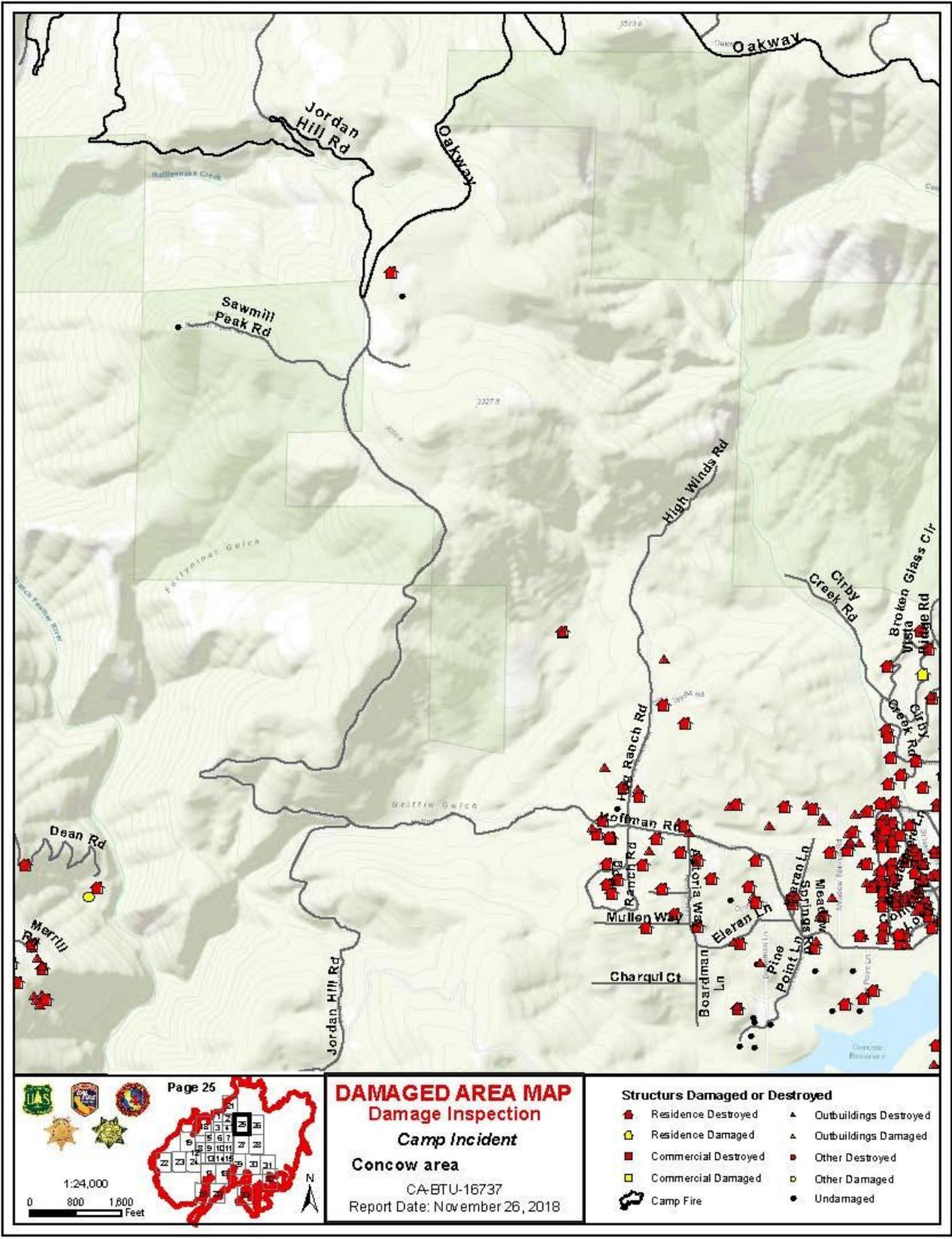
Residence Destroyed	Outbuildings Destroyed
Residence Damaged	Outbuildings Damaged
Commercial Destroyed	Other Destroyed
Commercial Damaged	Other Damaged
Camp Fire	Undamaged









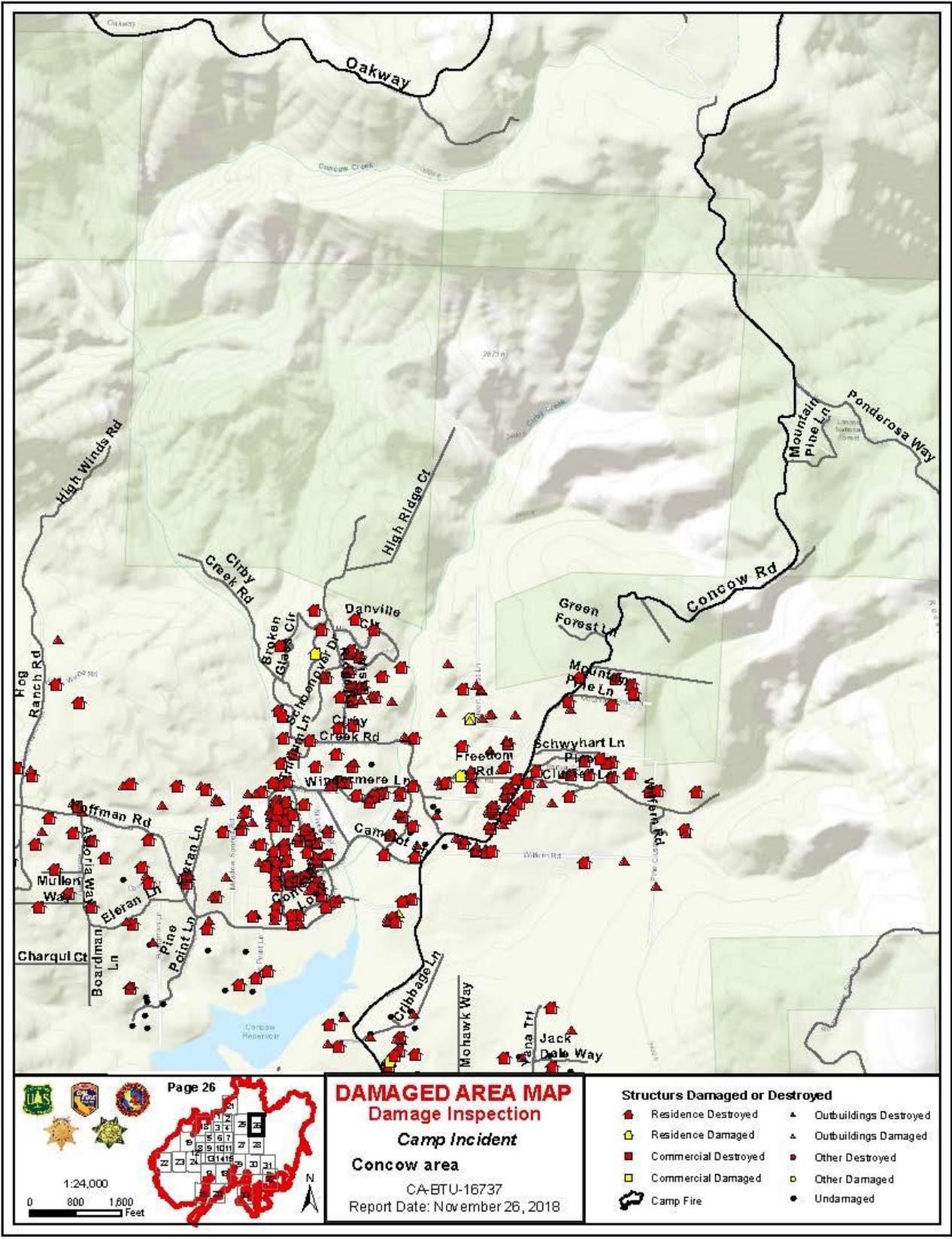


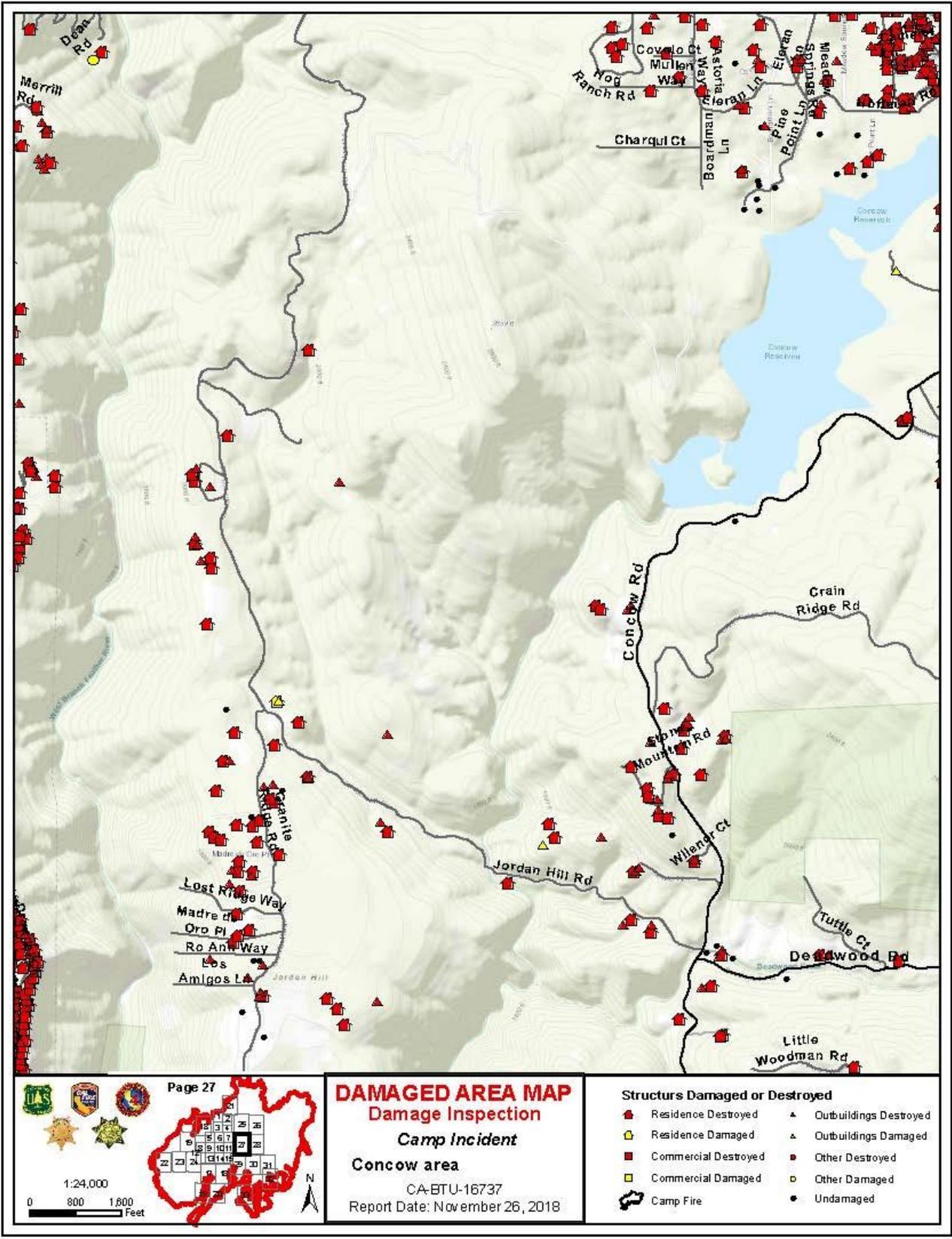
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**Damage Inspection**  
**Camp Incident**  
**Concow area**  
 CA-BTU-16737  
 Report Date: November 26, 2018

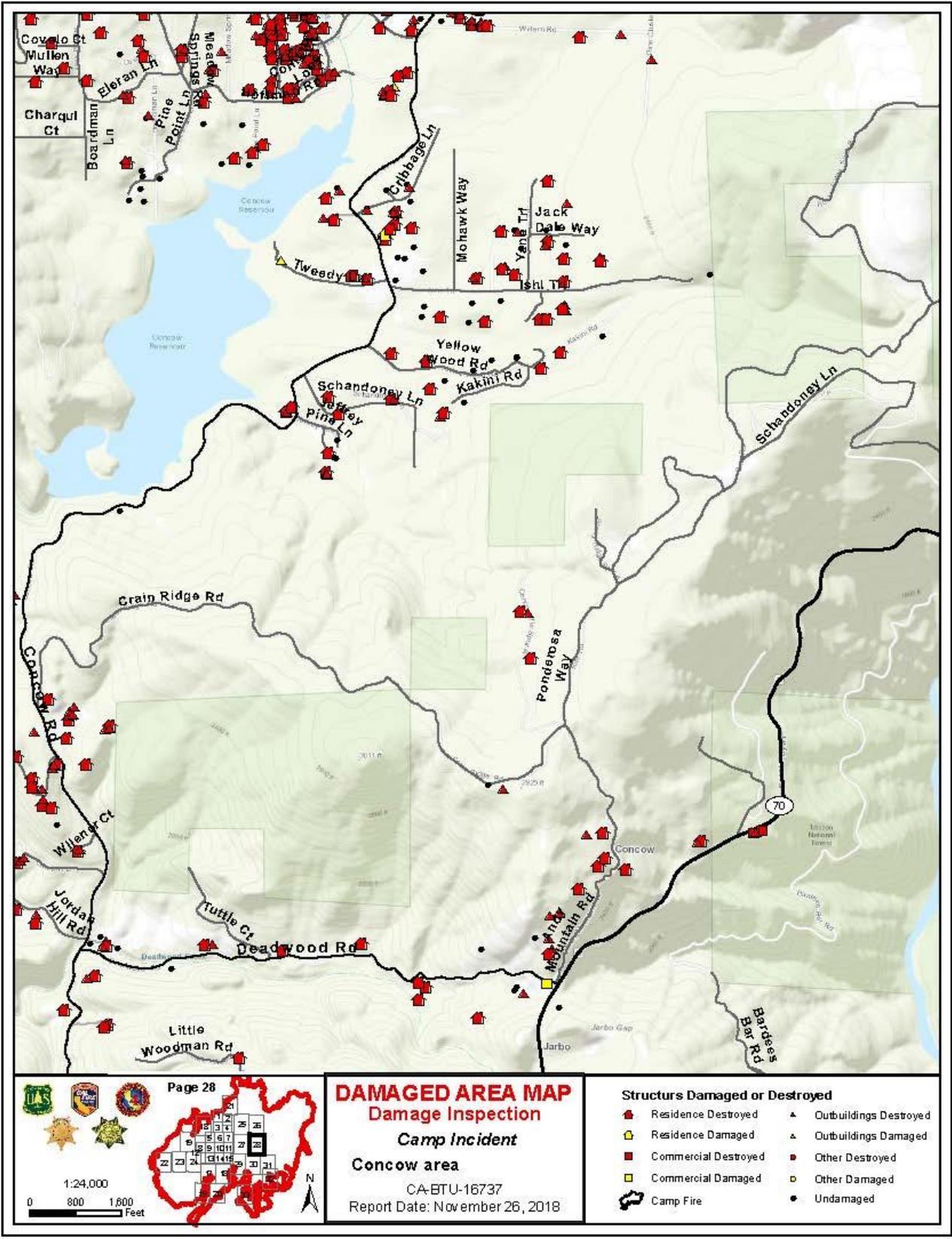
- Structurs Damaged or Destroyed**
- ▲ Residence Destroyed
  - ▲ Outbuildings Destroyed
  - ▲ Residence Damaged
  - ▲ Outbuildings Damaged
  - Commercial Destroyed
  - Other Destroyed
  - Commercial Damaged
  - Other Damaged
  - Camp Fire
  - Undamaged

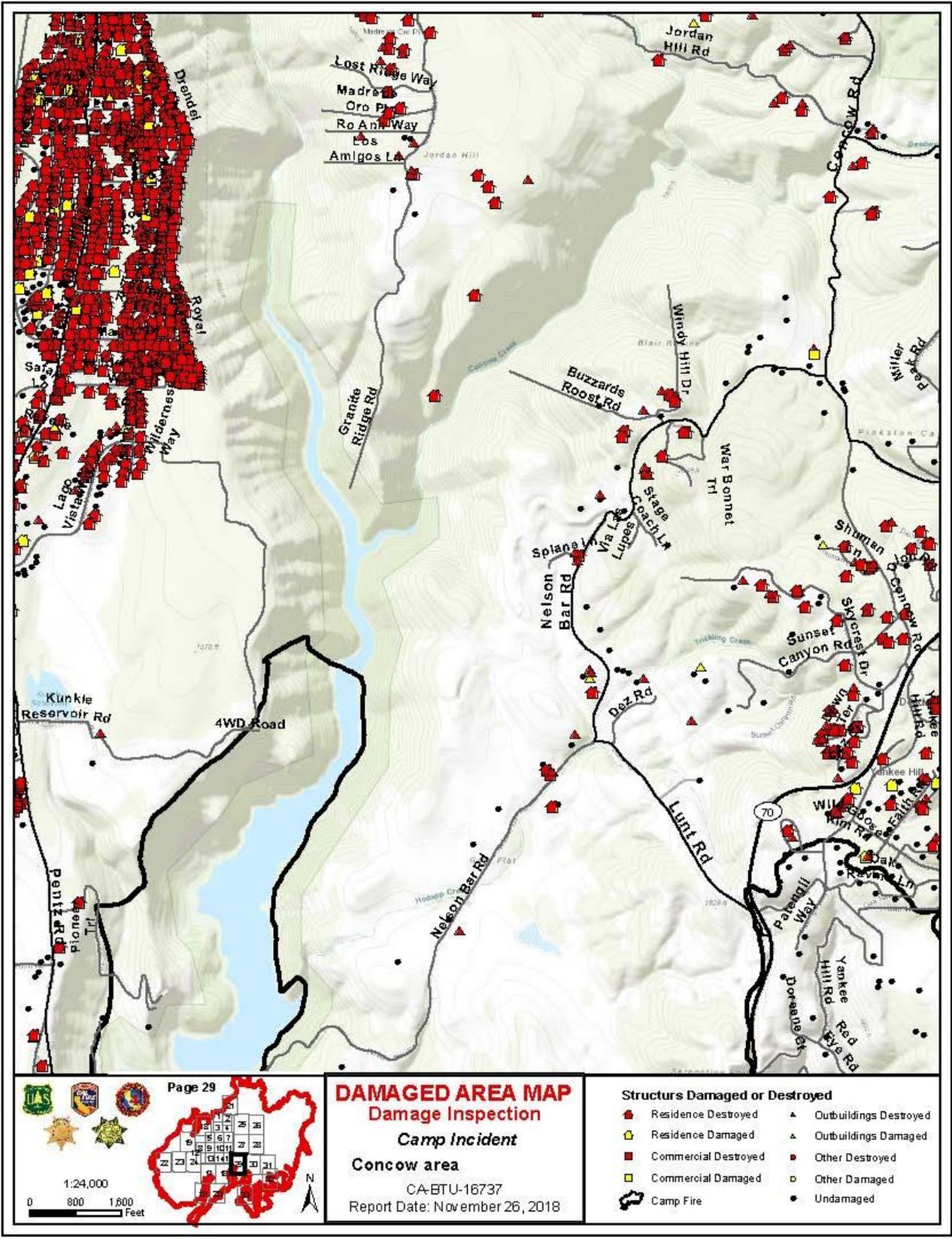
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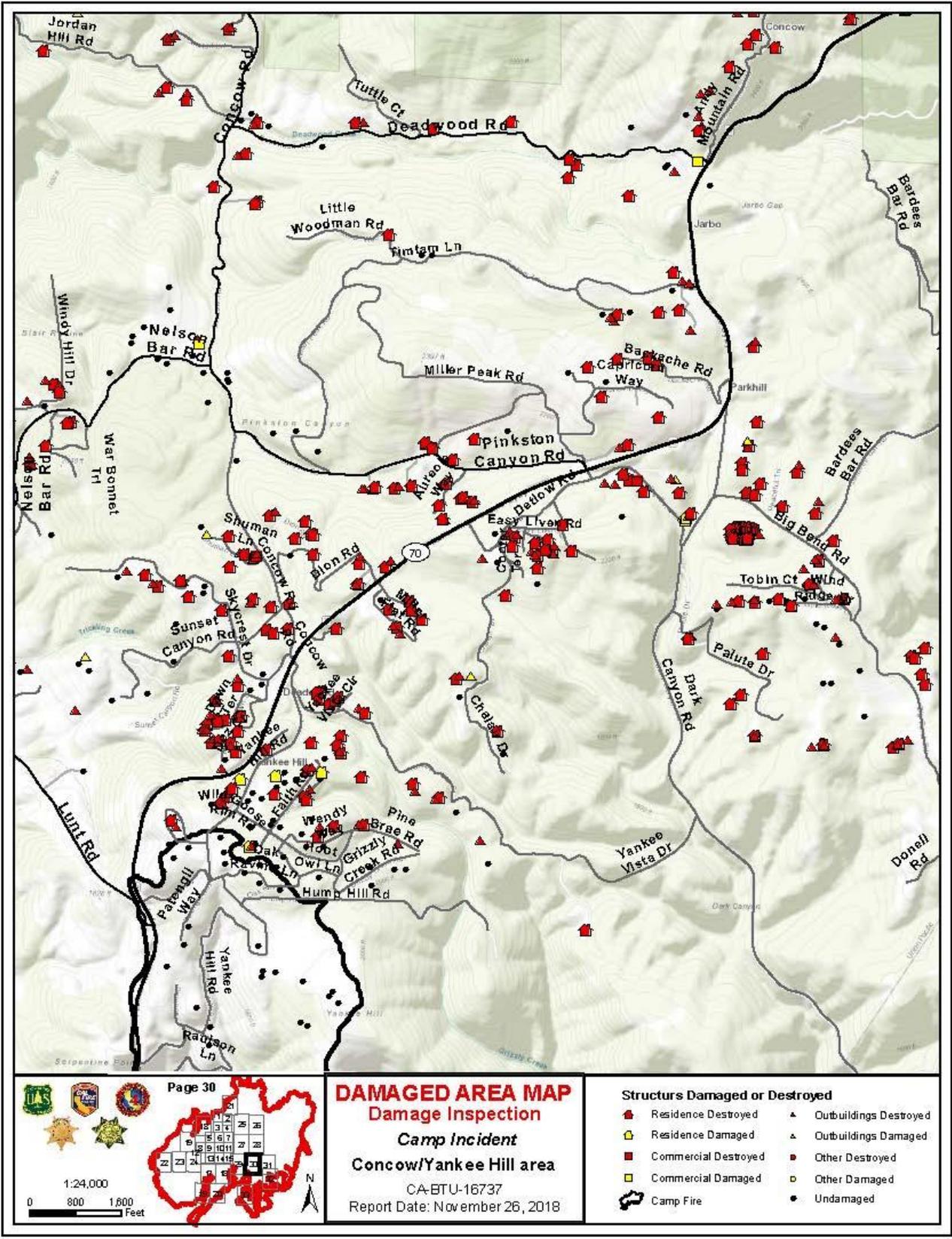
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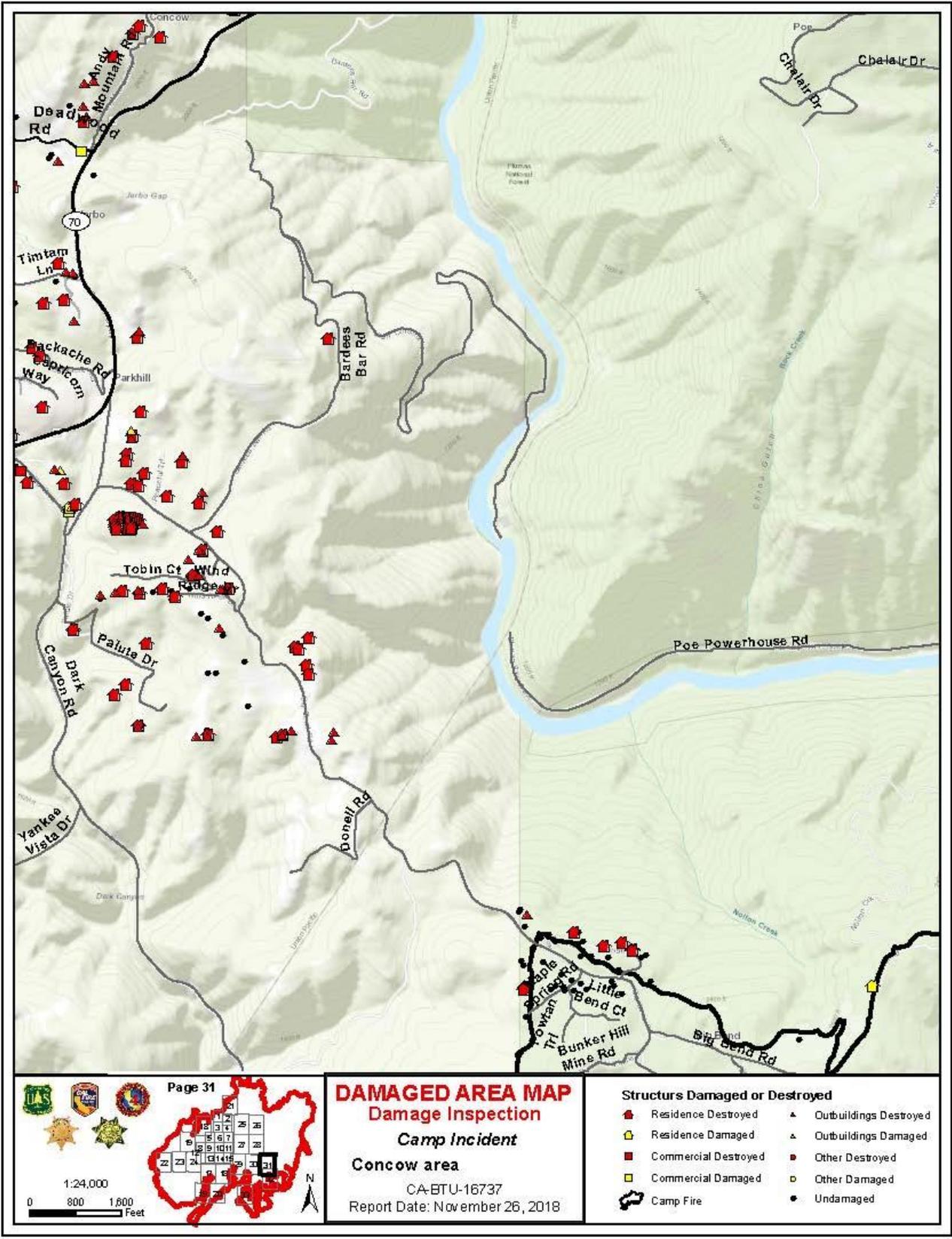
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 0 800 1,600  
 Feet

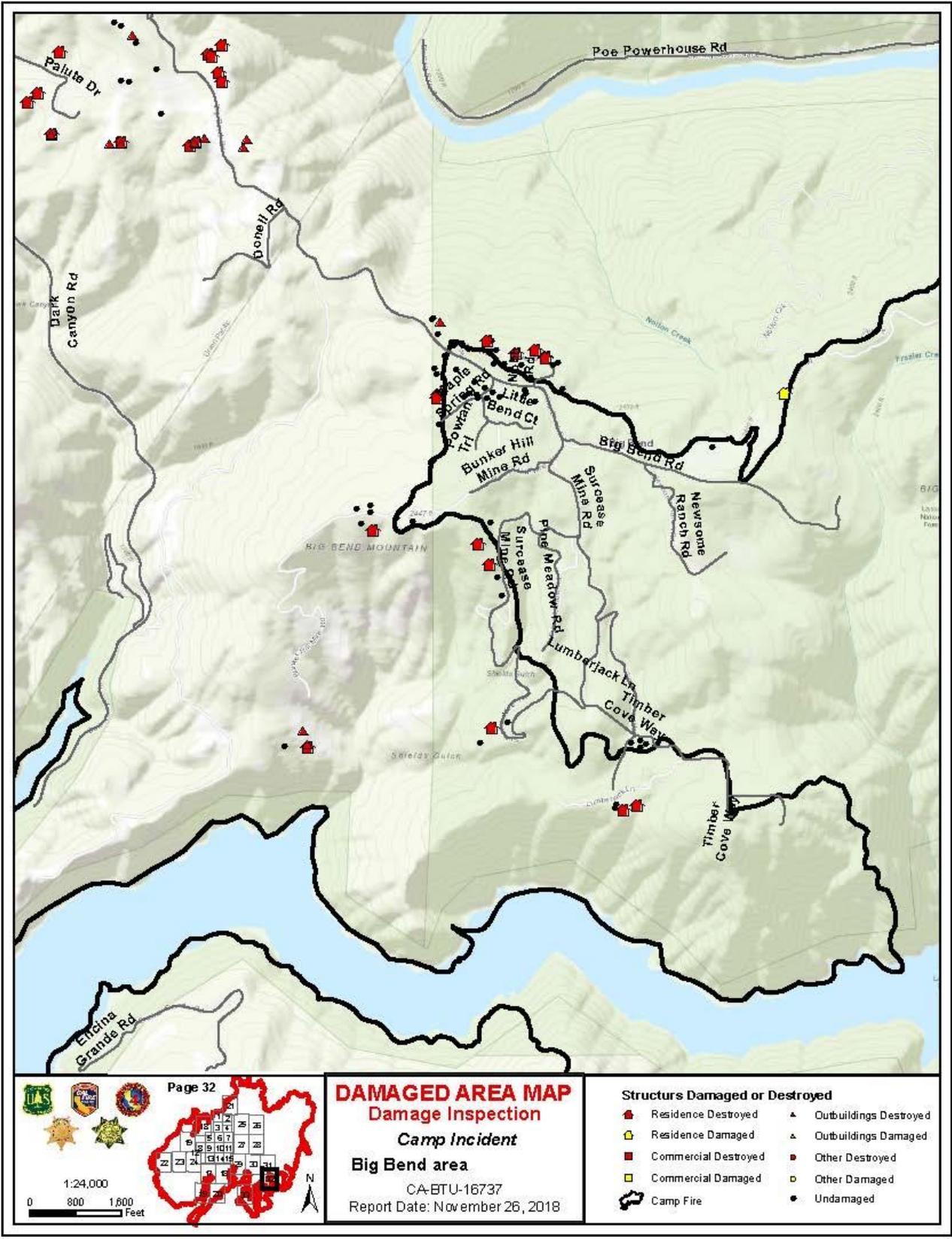
**DAMAGED AREA MAP**  
**Damage Inspection**  
**Camp Incident**  
**Concow area**  
 CA-BTU-16737  
 Report Date: November 26, 2018

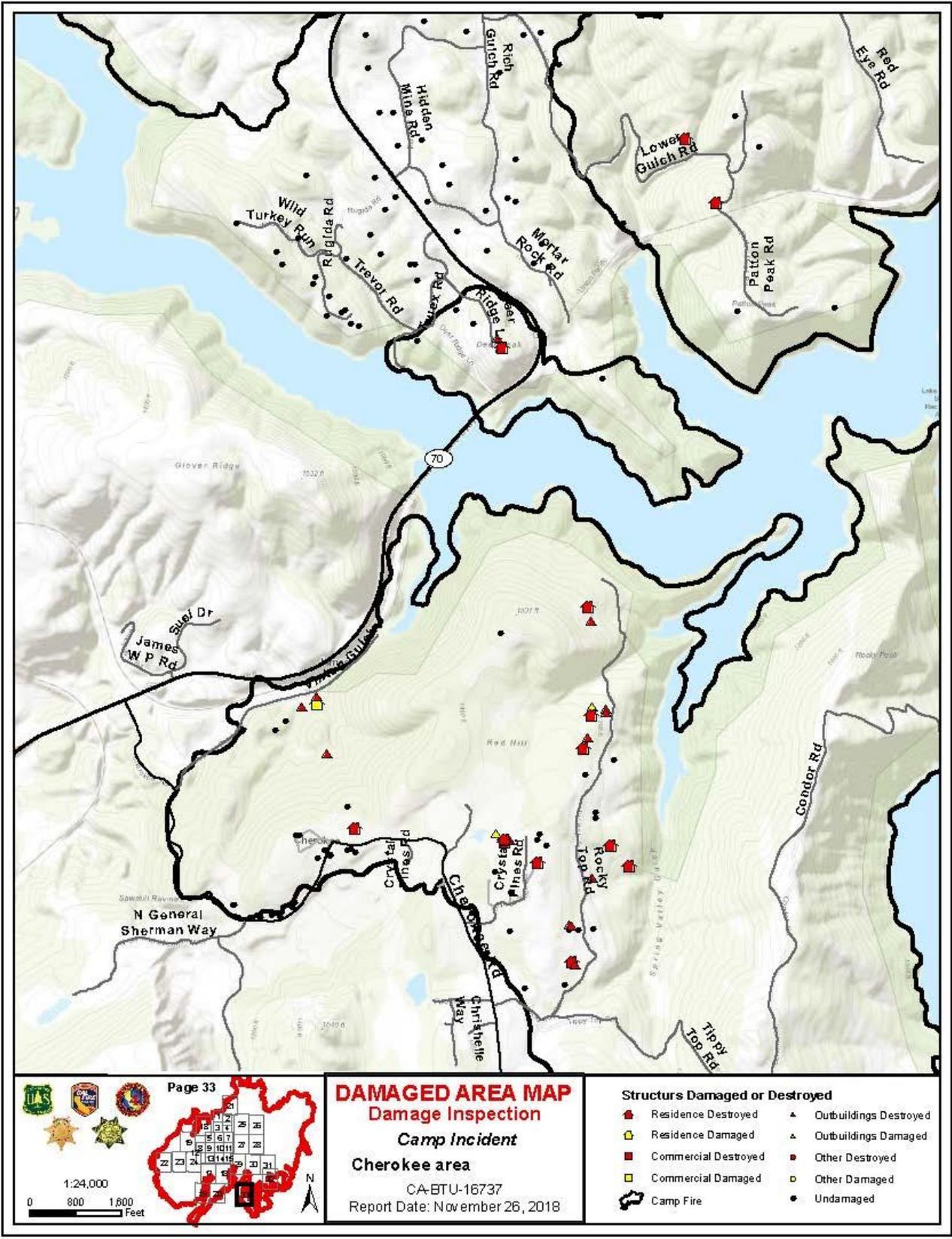
**Structures Damaged or Destroyed**

Residence Destroyed	Residence Damaged	Commercial Destroyed	Commercial Damaged	Outbuildings Destroyed	Outbuildings Damaged
Other Destroyed	Other Damaged	Undamaged	Undamaged	Undamaged	Undamaged
Camp Fire					









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1:24,000  
 0 800 1,600 Feet

**DAMAGED AREA MAP**  
 Damage Inspection  
 Camp Incident  
 Cherokee area  
 CA-BTU-16737  
 Report Date: November 26, 2018

**Structures Damaged or Destroyed**

Residence Destroyed	Outbuildings Destroyed
Residence Damaged	Outbuildings Damaged
Commercial Destroyed	Other Destroyed
Commercial Damaged	Other Damaged
Camp Fire	Undamaged

**APPENDIX C: INDIVIDUAL DAMAGE INSPECTION DETAIL**

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