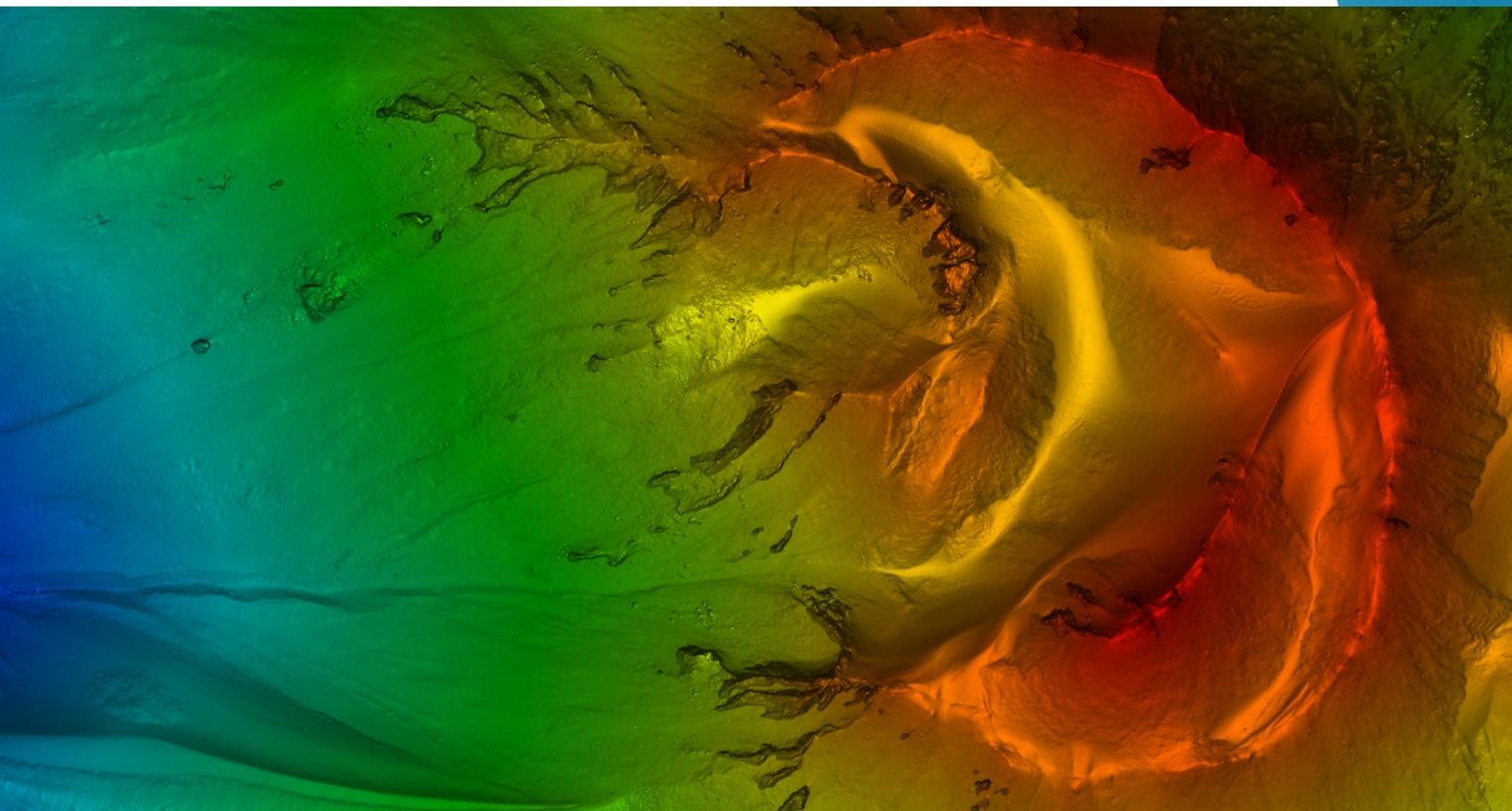




AN NV5 COMPANY



CARR HIRZ DELTA FIRES 2019 LIDAR PROCESSING REPORT

Work Package: 183383
Work Unit: 183434

2020

Submitted: November 23, 2020

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Appendix A: Survey Report

1. Summary / Scope

1.1. Summary

This report contains a summary of the Carr Hirz Delta Fires 2019 B19, Work Unit 183434, LiDAR acquisition task order, issued by USGS under their Contract G16PC00016 on September 5, 2019. The task order yielded a project area covering approximately 2,342 square miles over California. The intent of this document is only to provide specific validation information for the data acquisition/collection, processing, and production of deliverables completed as specified in the task order.

1.2. Scope

Aerial topographic LiDAR was acquired using state of the art technology along with the necessary surveyed ground control points (GCPs) and airborne GPS and inertial navigation systems. The aerial data collection was designed with the following specifications listed in Table 1 below.

Table 1. Originally Planned LiDAR Specifications

Average Point Density	Flight Altitude (AGL)	Field of View	Minimum Side Overlap	RMSEz
8 pts / m ²	2000-2300 m	58.5°	55%	≤ 10 cm

1.3. Coverage

The project boundary covers 2,342 square miles over California. The AOI is buffered by 100 meters. Project extents are shown in Figure 1.

1.4. Duration

LiDAR data was acquired from October 11, 2019 to December 27, 2019 in 24 total lifts. See “Section: 2.4. Time Period” for more details.

1.5. Issues

There were no major issues to report for this project.

Carr Hirz Delta Fires Work Unit 183434 Projected Coordinate System: UTM Zone 10N Horizontal Datum: NAD83(2011) Vertical Datum: NAVD88 (GEOID 12B) Units: Meters	
Lidar Point Cloud	Classified Point Cloud in .LAS 1.4 format
Rasters	<ul style="list-style-type: none"> • 0.5 meter Hydro-flattened Bare Earth Digital Elevation Model (DEM) in GeoTIFF format • 0.5 meter Intensity images in GeoTIFF format
Vectors	Shapefiles (*.shp) <ul style="list-style-type: none"> • Project Boundary • LiDAR Tile Index • Swath Polygons Geodatabase (*.gdb) <ul style="list-style-type: none"> • Continuous Hydro-flattened Breaklines
Reports	Reports in PDF format <ul style="list-style-type: none"> • Focus on Delivery • Focus on Accuracy • Processing Report (includes Survey Report)
Metadata	XML Files (*.xml) <ul style="list-style-type: none"> • Breaklines • Classified Point Cloud • DEM • Intensity Imagery

Carr Hirz Delta Fires 2019

Work Unit 183434 Boundary

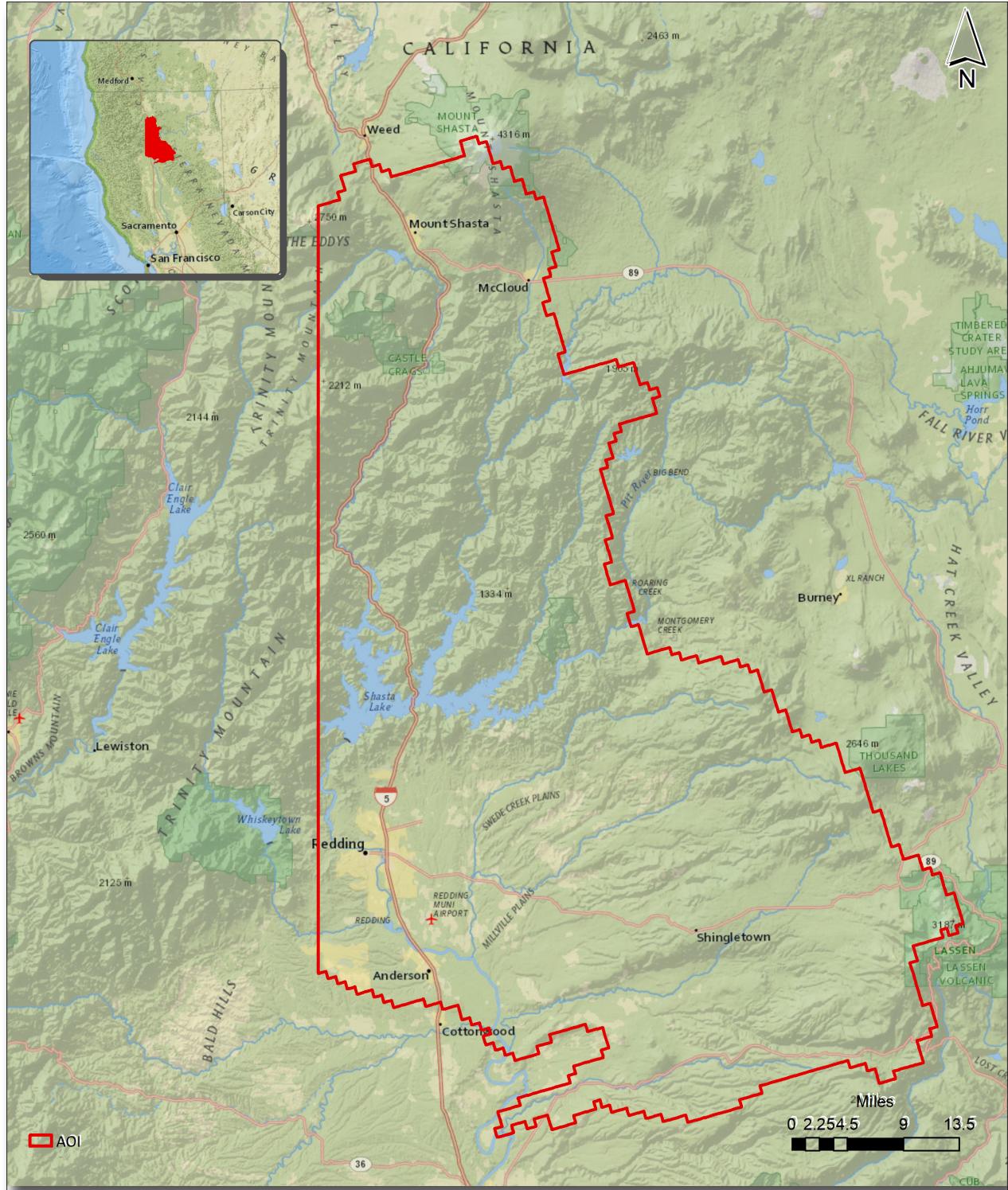


Figure 1. Work Unit Boundary

2. Planning / Equipment

2.1. Flight Planning

Flight planning was based on the unique project requirements and characteristics of the project site. The basis of planning included: required accuracies, type of development, amount / type of vegetation within project area, required data posting, and potential altitude restrictions for flights in project vicinity.

Detailed project flight planning calculations were performed for the project using RiPARAMETER planning software. Planned flight lines are shown in Figure 2.

2.2. LiDAR Sensor

Quantum Spatial utilized Riegl VQ1560i (serial numbers 2738, 3061, 3546, and 4040) sensors for lidar acquisition. Sensors are shown in Figure 3.

The Riegl 1560i system has a laser pulse repetition rate of up to 2 MHz resulting in more than 1.3 million measurements per second. The system utilizes a Multi-Pulse in the Air option (MPIA). The sensor is also equipped with the ability to measure up to an unlimited number of targets per pulse from the laser.

A brief summary of the aerial acquisition parameters for the project are shown in the LiDAR System Specifications in Table 2.

Carr Hirz Delta Fires 2019 Work Unit 183434 Planned Flight Lines

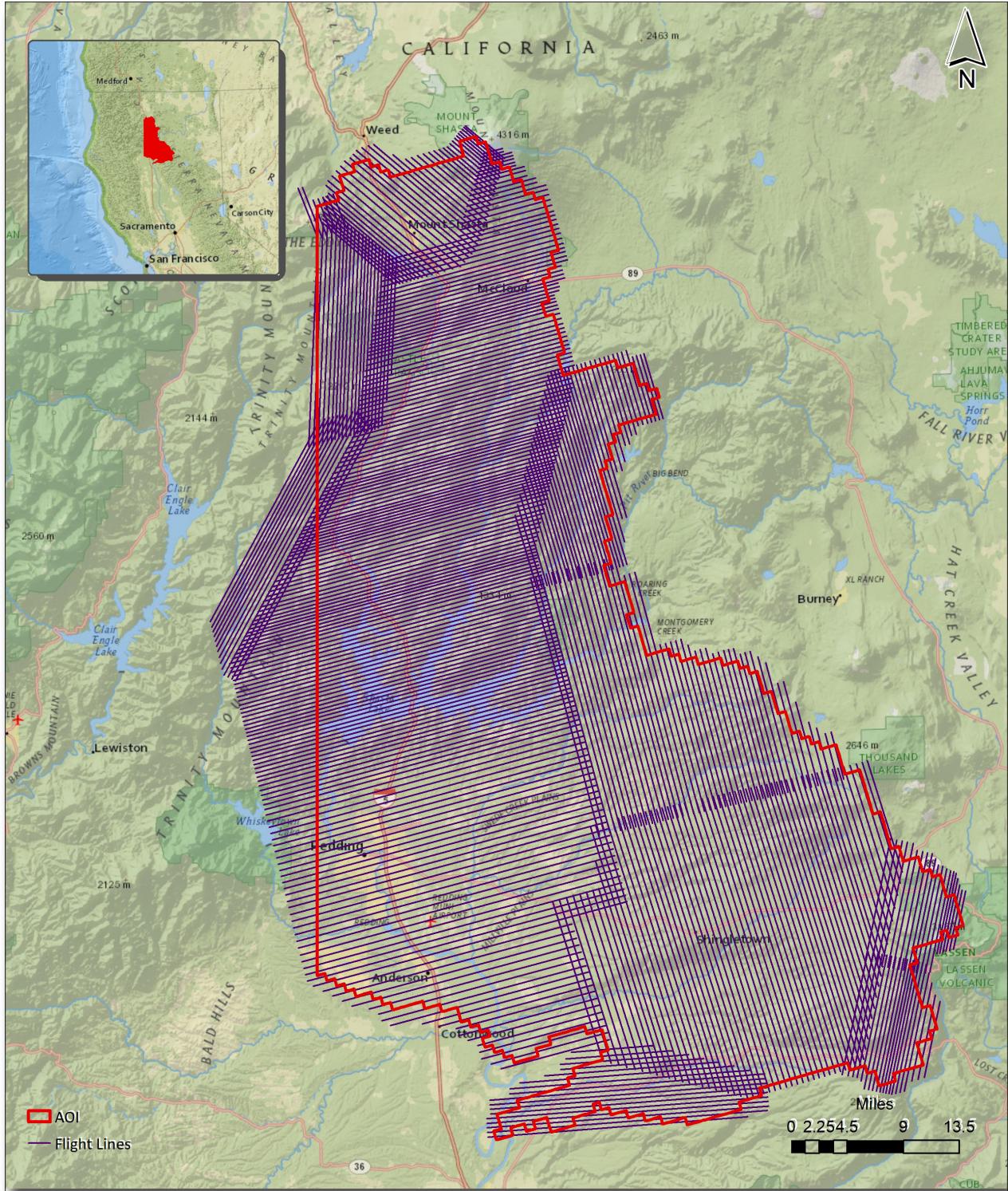


Figure 2. Planned Flight Lines

Table 2. LiDAR System Specifications

		Riegl VQ1560i
Terrain and Aircraft Scanner	Flying Height	2300 m
	Recommended Ground Speed	160 kts
Scanner	Field of View	58.5°
	Scan Rate Setting Used	86 Hz
Laser	Laser Pulse Rate Used	700 kHz
	Multi Pulse in Air Mode	yes
Coverage	Full Swath Width	2576 m
	Line Spacing	850 m
Point Spacing and Density	Average Point Spacing	0.33 m
	Average Point Density	9.4 pts / m ²

Figure 3. Riegl VQ1560i and Riegl VQ1560ii LiDAR Sensors



2.3. Aircraft

All flights for the project were accomplished through the use of customized planes. Plane type and tail numbers are listed below.

LiDAR Collection Planes

- Cessna Caravan, Tail Number(s): N704MD, N840JA, N208NR
- Piper PA-31, Tail Number(s): C-FVZM

These aircraft provided an ideal, stable aerial base for LiDAR acquisition. These aerial platforms have relatively fast cruise speeds, which are beneficial for project mobilization / demobilization while maintaining relatively slow stall speeds, proving ideal for collection of high-density, consistent data posting using state-of-the-art Riegl lidar systems. Some of Quantum Spatial's operating aircraft can be seen in Figure 4 below.

Figure 4. Some of Quantum Spatial's Planes



2.4. Time Period

Project specific flights were conducted between October 10, 2019 and December 27, 2019. Twenty-four aircraft lifts were completed. Accomplished lifts are listed below.

- 10112019A (SN3061,N840JA)
- 10122019A (SN3061,N840JA)
- 10122019B (SN3061,N840JA)
- 10132019A (SN3061,N840JA)
- 10132019B (SN3061,N840JA)
- 10142019A (SN3061,N840JA)
- 10142019B (SN3061,N840JA)
- 10152019A (SN3061,N840JA)
- 10152019B (SN3061,N840JA)
- 10162019A (SN3061,N840JA)
- 10202019A (SN3061,N840JA)
- 10212019A (SN3061,N840JA)
- 10222019A (SN3061,N840JA)
- 10232019A (SN3061,N840JA)
- 10242019A (SN2738,C-FVZM)
- 10242019A (SN4040,N208NR)
- 10252019A (SN3061,N840JA)
- 10262019A (SN3061,N840JA)
- 10302019A (SN3061,N840JA)
- 10302019B (SN3061,N840JA)
- 11012019A (SN3061,N840JA)
- 12162019A (SN3546,N704MD)
- 12172019A (SN3546,N704MD)
- 12272019A (SN3546,N704MD)

3. Processing Summary

3.1. Flight Logs

Flight logs were completed by LiDAR sensor technicians for each mission during acquisition. These logs depict a variety of information, including:

- Job / Project #
- Flight Date / Lift Number
- FOV (Field of View)
- Scan Rate (HZ)
- Pulse Rate Frequency (Hz)
- Ground Speed
- Altitude
- Base Station
- PDOP avoidance times
- Flight Line #
- Flight Line Start and Stop Times
- Flight Line Altitude (AMSL)
- Heading
- Speed
- Returns
- Crab

Notes: (Visibility, winds, ride, weather, temperature, dew point, pressure, etc).

3.2. LiDAR Processing

Applanix + POSPac software was used for post-processing of airborne GPS and inertial data (IMU), which is critical to the positioning and orientation of the LiDAR sensor during all flights. Applanix POSPac combines aircraft raw trajectory data with stationary GPS base station data yielding a “Smoothed Best Estimate Trajectory” (SBET) necessary for additional post processing software to develop the resulting geo-referenced point cloud from the LiDAR missions.

During the sensor trajectory processing (combining GPS & IMU datasets) certain statistical graphs and tables are generated within the Applanix POSPac processing environment which are commonly used as indicators of processing stability and accuracy. This data for analysis include: max horizontal / vertical GPS variance, separation plot, altitude plot, PDOP plot, base station baseline length, processing mode, number of satellite vehicles, and mission trajectory.

Point clouds were created using the RiPROCESS software. The generated point cloud is the mathematical three dimensional composite of all returns from all laser pulses as determined from the aerial mission. The point cloud is imported into GeoCue distributive processing software. Imported data is tiled and then calibrated using TerraMatch and proprietary software. Using TerraScan, the vertical accuracy of the surveyed ground control is tested and any bias is removed from the data. TerraScan and TerraModeler software packages are then used for automated data classification and manual cleanup. The data are manually reviewed and any remaining artifacts removed using functionality provided by TerraScan and TerraModeler.

DEMs and Intensity Images are then generated using proprietary software. In the bare earth surface model, above-ground features are excluded from the data set. Global Mapper is used as a final check of the bare earth dataset.

Finally, proprietary software is used to perform statistical analysis of the LAS files.

Software	Version
Applanix + POSPac	8.4
RiPROCESS	1.8.6
GeoCue	2017.1.14.1
Global Mapper	19.1;20.1
TerraModeler	20.004
TerraScan	20.011
TerraMatch	20.004

3.3. LAS Classification Scheme

The classification classes are determined by the USGS Version 1.3 specifications and are an industry standard for the classification of LIDAR point clouds. All data starts the process as Class 1 (Unclassified), and then through automated classification routines, the classifications are determined using TerraScan macro processing.

The classes used in the dataset are as follows and have the following descriptions:

Table 3. LAS Classifications

	Classification Name	Description
1	Processed, but Unclassified	Laser returns that are not included in the ground class, or any other project classification
2	Bare earth	Laser returns that are determined to be ground using automated and manual cleaning algorithms
7	Low Noise	Laser returns that are often associated with scattering from reflective surfaces, or artificial points below the ground surface
9	Water	Laser returns that are found inside of hydro features
17	Bridge Deck	Laser returns falling on bridge decks
18	High Noise	Laser returns that are often associated with birds or artificial points above the ground surface
20	Ignored Ground	Ground points that fall within the given threshold of a collected hydro feature.
21	Snow	Ground points that fall on snow, where identifiable

3.4. Classified LAS Processing

The bare earth surface is then manually reviewed to ensure correct classification on the Class 2 (Ground) points. After the bare- earth surface is finalized; it is then used to generate all hydro-breaklines through heads-up digitization.

All ground (ASPRS Class 2) LiDAR data inside of the Lake Pond and Double Line Drain hydro flattening breaklines were then classified to water (ASPRS Class 9) using TerraScan macro functionality. A buffer of 3 feet was also used around each hydro flattened feature to classify these ground (ASPRS Class 2) points to Ignored ground (ASPRS Class 20). All Lake Pond Island and Double Line Drain Island features were checked to ensure that the ground (ASPRS Class 2) points were reclassified to the correct classification after the automated classification was completed.

All overlap data was processed through automated functionality provided by TerraScan to classify the overlapping flight line data to approved classes by USGS. The overlap data was

identified using the Overlap Flag, per LAS 1.4 specifications.

All data was manually reviewed and any remaining artifacts removed using functionality provided by TerraScan and TerraModeler. Global Mapper is used as a final check of the bare earth dataset. GeoCue was then used to create the deliverable industry-standard LAS files for all point cloud data. Quantum Spatial's proprietary software was used to perform final statistical analysis of the classes in the LAS files, on a per tile level to verify final classification metrics and full LAS header information.

3.5. Hydro-Flattened Breakline Processing

Class 2 LiDAR was used to create a bare earth surface model. The surface model was then used to heads-up digitize 2D breaklines of Inland Streams and Rivers with a 100 foot nominal width and Inland Ponds and Lakes of 2 acres or greater surface area.

Elevation values were assigned to all Inland Ponds and Lakes, Inland Pond and Lake Islands, Inland Streams and Rivers and Inland Stream and River Islands using TerraModeler functionality.

Elevation values were assigned to all Inland streams and rivers using Quantum Spatial's proprietary software.

All ground (ASPRS Class 2) LiDAR data inside of the collected inland breaklines were then classified to water (ASPRS Class 9) using TerraScan macro functionality. A buffer of 1 meter was also used around each hydro flattened feature. These points were moved from ground (ASPRS Class 2) to Ignored Ground (ASPRS Class 20).

The breakline files were then translated to Esri file geodatabase format using Esri conversion tools.

Breaklines are reviewed against lidar intensity imagery to verify completeness of capture. All breaklines are then compared to TINs (triangular irregular networks) created from ground only points prior to water classification. The horizontal placement of breaklines is compared to terrain features and the breakline elevations are compared to lidar elevations to ensure all breaklines match the lidar within acceptable tolerances. Some deviation is expected between breakline and lidar elevations due to monotonicity, connectivity, and flattening rules that are enforced on the breaklines. Once completeness, horizontal placement, and vertical variance is reviewed, all breaklines are reviewed for topological consistency and data integrity using a combination of Esri Data Reviewer tools and proprietary tools.

3.6. Hydro-Flattened Raster DEM Processing

Class 2 LiDAR in conjunction with the hydro breaklines were used to create a 0.5-meter Raster DEM. Using automated scripting routines within proprietary software, a GeoTIFF file was created for each tile. Each surface is reviewed using Global Mapper to check for any surface anomalies or incorrect elevations found within the surface.

3.7. Intensity Image Processing

GeoCue software was used to create the deliverable intensity images. All overlap classes were ignored during this process. This helps to ensure a more aesthetically pleasing image. The GeoCue software was then used to verify full project coverage as well. GeoTIFF files with a cell size of 0.5-meter were then provided as the deliverable for this dataset requirement.

Carr Hirz Delta Fires 2019 Work Unit 183434 Tile Layout

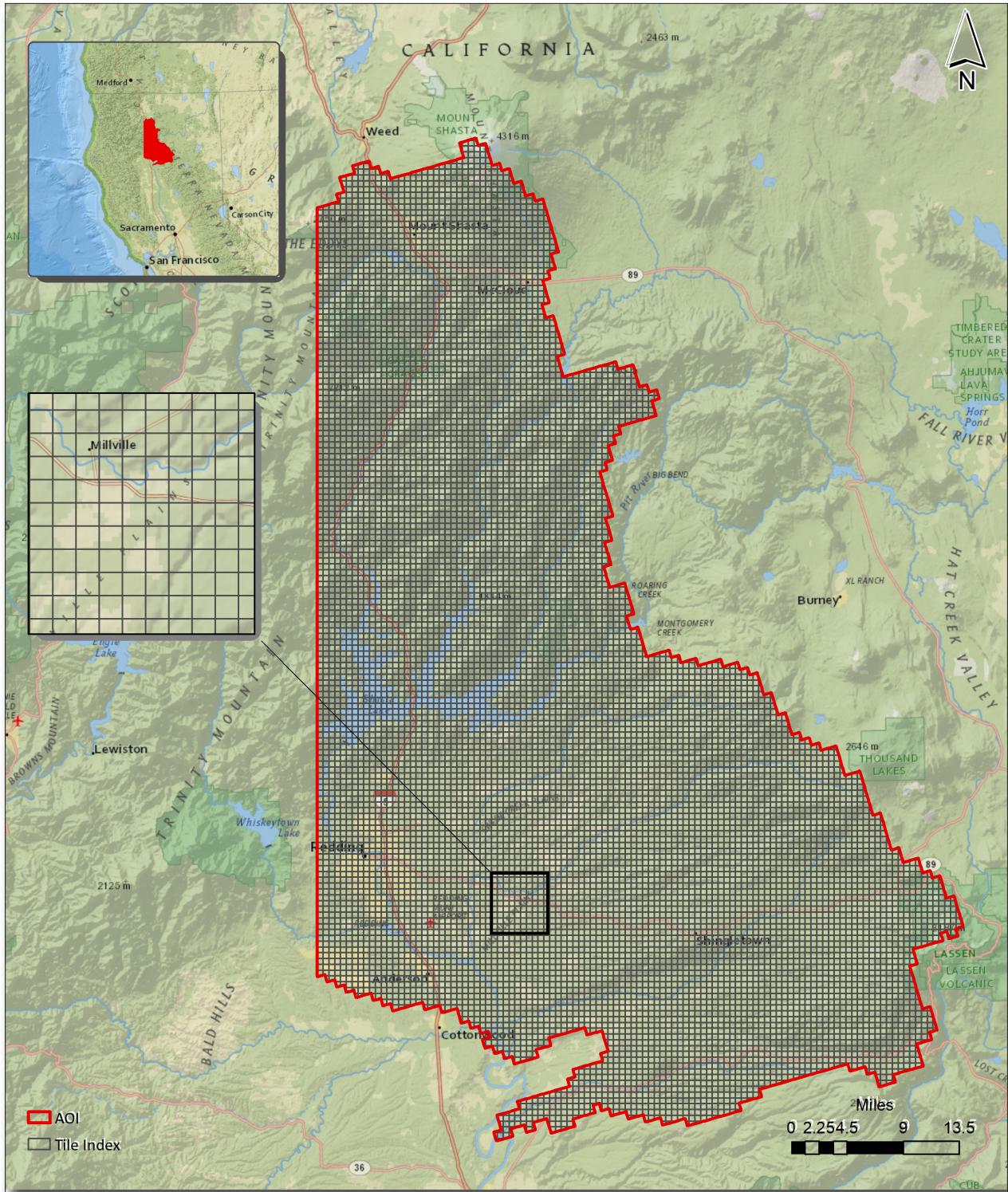


Figure 5. Lidar Tile Layout

4. Project Coverage Verification

Coverage verification was performed by comparing coverage of processed .LAS files captured during project collection to generate project shape files depicting boundaries of specified project areas. Please refer to Figure 6.

Carr Hirz Delta Fires 2019

Work Unit 183434 Lidar Coverage

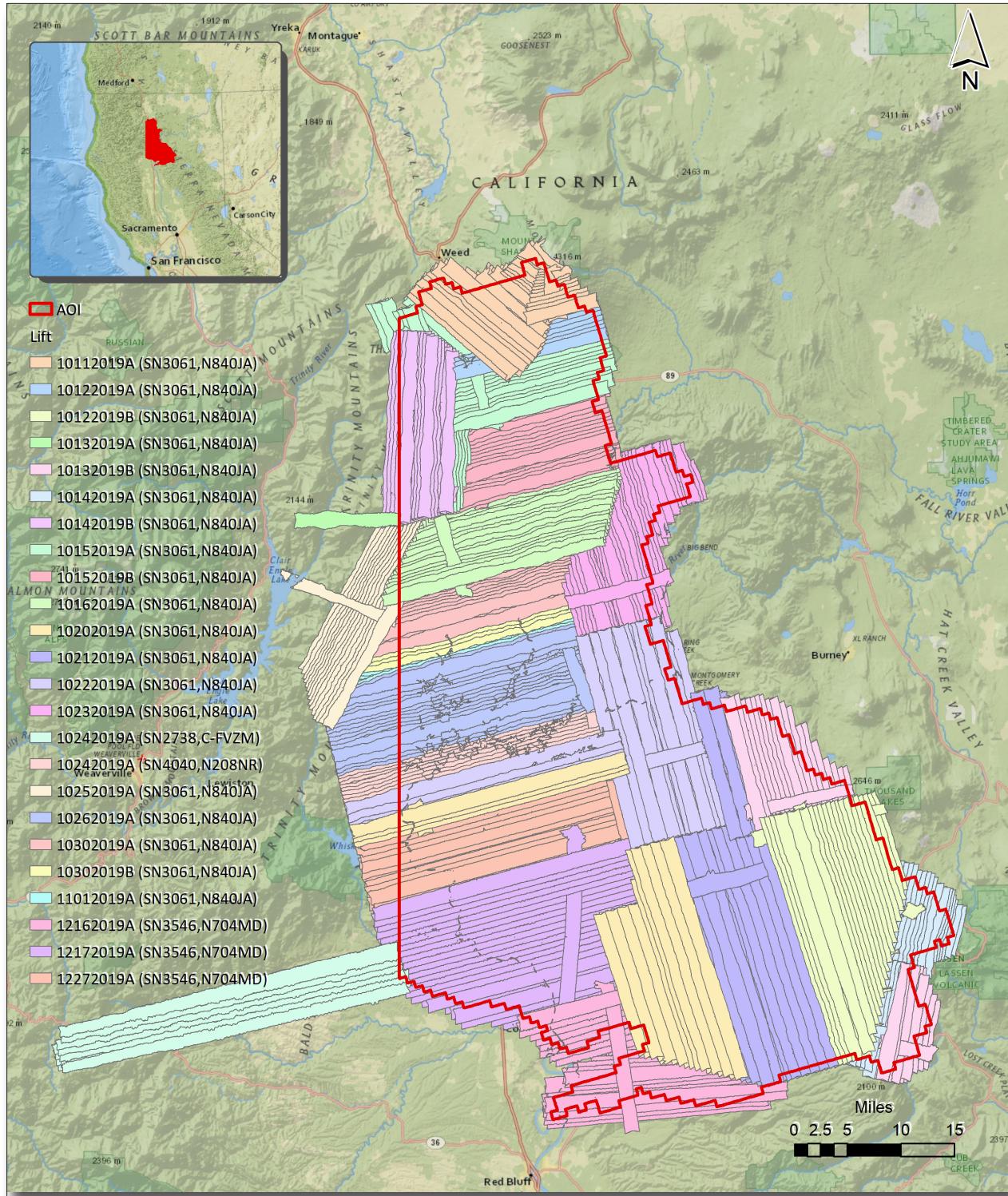


Figure 6. Lidar Coverage

5. Ground Control and Check Point Collection

Quantum Spatial completed a field survey of 126 ground control (calibration) points along with 212 blind QA points in Non-Vegetated and Vegetated land cover classifications as an independent test of the accuracy of this project.

A combination of precise GPS surveying methods, including static and RTK observations were used to establish the 3D position of ground calibration points and QA points for the point classes above. GPS was not an appropriate methodology for surveying in the forested areas during the leaf-on conditions for the actual field survey (which was accomplished after the LiDAR acquisition). Therefore the 3D positions for the forested points were acquired using a GPS-derived offset point located out in the open near the forested area, and using precise offset surveying techniques to derive the 3D position of the forested point from the open control point. The explicit goal for these surveys was to develop 3D positions that were three times greater than the accuracy requirement for the elevation surface. In this case of the blind QA points the goal was a positional accuracy of 5 cm in terms of the RMSE.

For more information, see the Survey Report in Appendix A.

The required accuracy testing was performed on the LiDAR dataset (both the LiDAR point cloud and derived DEM's) according to the USGS LiDAR Base Specification Version 1.3.

5.1. Calibration Control Point Testing

Figure 7 shows the location of each bare earth calibration point for the project area. TerraScan was used to perform a quality assurance check using the LiDAR bare earth calibration points. The results of the surface calibration are not an independent assessment of the accuracy of these project deliverables, but the statistical results do provide additional feedback as to the overall quality of the elevation surface.

5.2. Point Cloud Testing

The project specifications require that only Non-Vegetated Vertical Accuracy (NVA) be computed for raw lidar point cloud swath files. The required accuracy (ACCz) is: 19.6 cm at a 95% confidence level, derived according to NSSDA, i.e., based on RMSE of 10 cm in the “bare earth” and “urban” land cover classes. The NVA was tested with 121 checkpoints located in bare earth and urban (non-vegetated) areas. These check points were not used in the calibration or post processing of the lidar point cloud data. The checkpoints were distributed throughout the project area and were surveyed using GPS techniques. See survey report for additional survey methodologies.

Elevations from the unclassified lidar surface were measured for the x,y location of each check point. Elevations interpolated from the lidar surface were then compared to the elevation values of the surveyed control points. AccuracyZ has been tested to meet 19.6 cm or better Non-Vegetated Vertical Accuracy at 95% confidence level using $RMSE(z) \times 1.9600$ as defined by the

National Standards for Spatial Data Accuracy (NSSDA); assessed and reported using National Digital Elevation Program (NDEP)/ASPRS Guidelines.

5.3. Digital Elevation Model (DEM) Testing

The project specifications require the accuracy (ACCz) of the derived DEM be calculated and reported in two ways:

1. The required NVA is: 19.6 cm at a 95% confidence level, derived according to NSSDA, i.e., based on RMSE of 10 cm in the “bare earth” and “urban” land cover classes. This is a required accuracy. The NVA was tested with 121 checkpoints located in bare earth and urban (non-vegetated) areas. See Figure 8.
2. Vegetated Vertical Accuracy (VVA): VVA shall be reported for “brushlands/low trees” and “tall weeds/crops” land cover classes. The target VVA is: 29.4 cm at the 95th percentile, derived according to ASPRS Guidelines, Vertical Accuracy Reporting for Lidar Data, i.e., based on the 95th percentile error in all vegetated land cover classes combined. This is a target accuracy. The VVA was tested with 90 checkpoints located in tall weeds/crops and brushlands/low trees (vegetated) areas. The checkpoints were distributed throughout the project area and were surveyed using GPS techniques. See Figure 9.

AccuracyZ has been tested to meet 19.6 cm or better Non-Vegetated Vertical Accuracy at 95% confidence level using $RMSE(z) \times 1.9600$ as defined by the National Standards for Spatial Data Accuracy (NSSDA); assessed and reported using National Digital Elevation Program (NDEP)/ASPRS Guidelines.

A brief summary of results are listed below.

	Target	Measured	Point Count
Raw NVA	0.196 m	0.0742 m	121
NVA	0.196 m	0.0722 m	121
VVA	0.294 m	0.1538 m	90

Carr Hirz Delta Fires 2019 Calibration Points

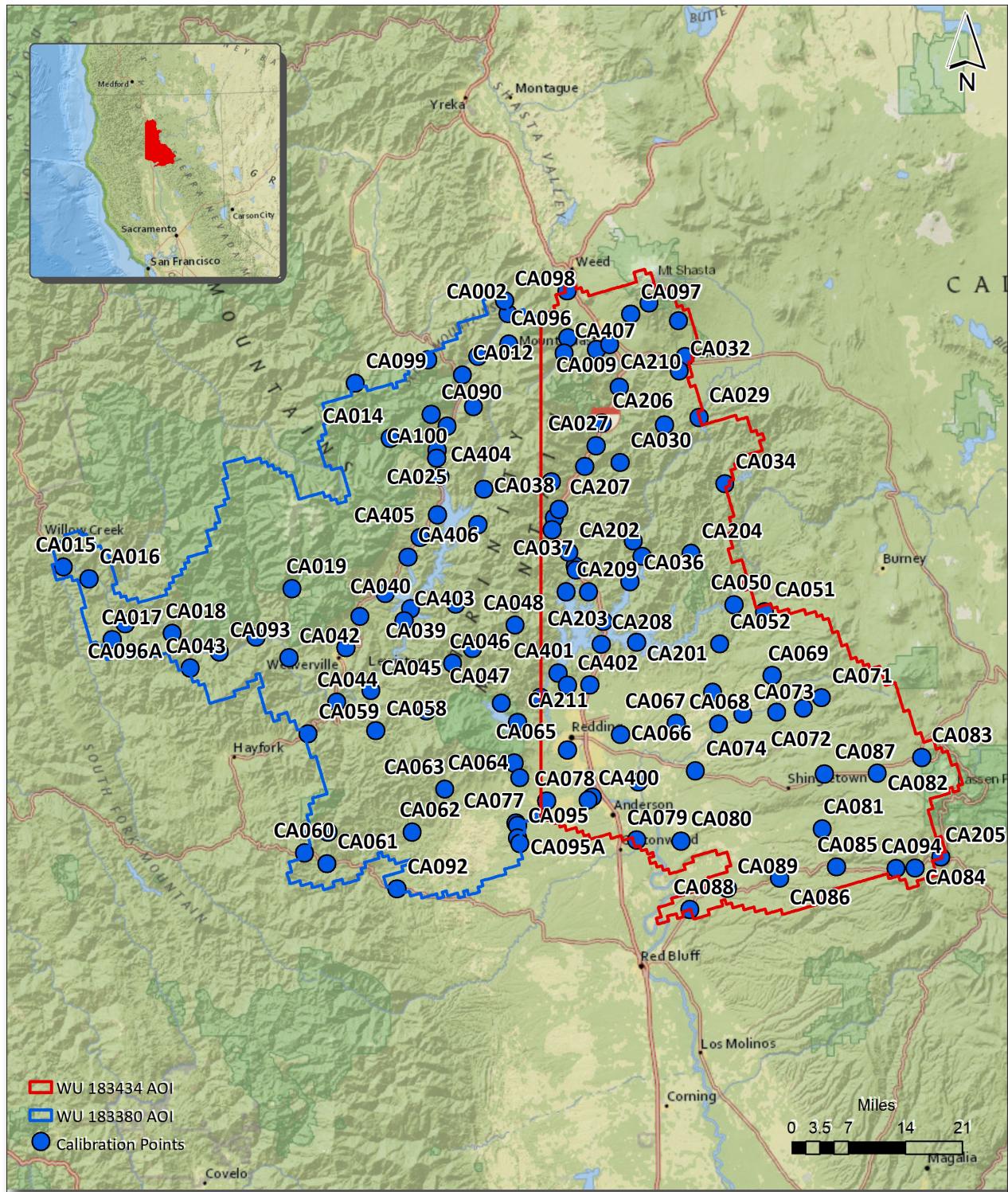


Figure 7. Calibration Control Point Locations

Carr Hirz Delta Fires 2019 NVA Points

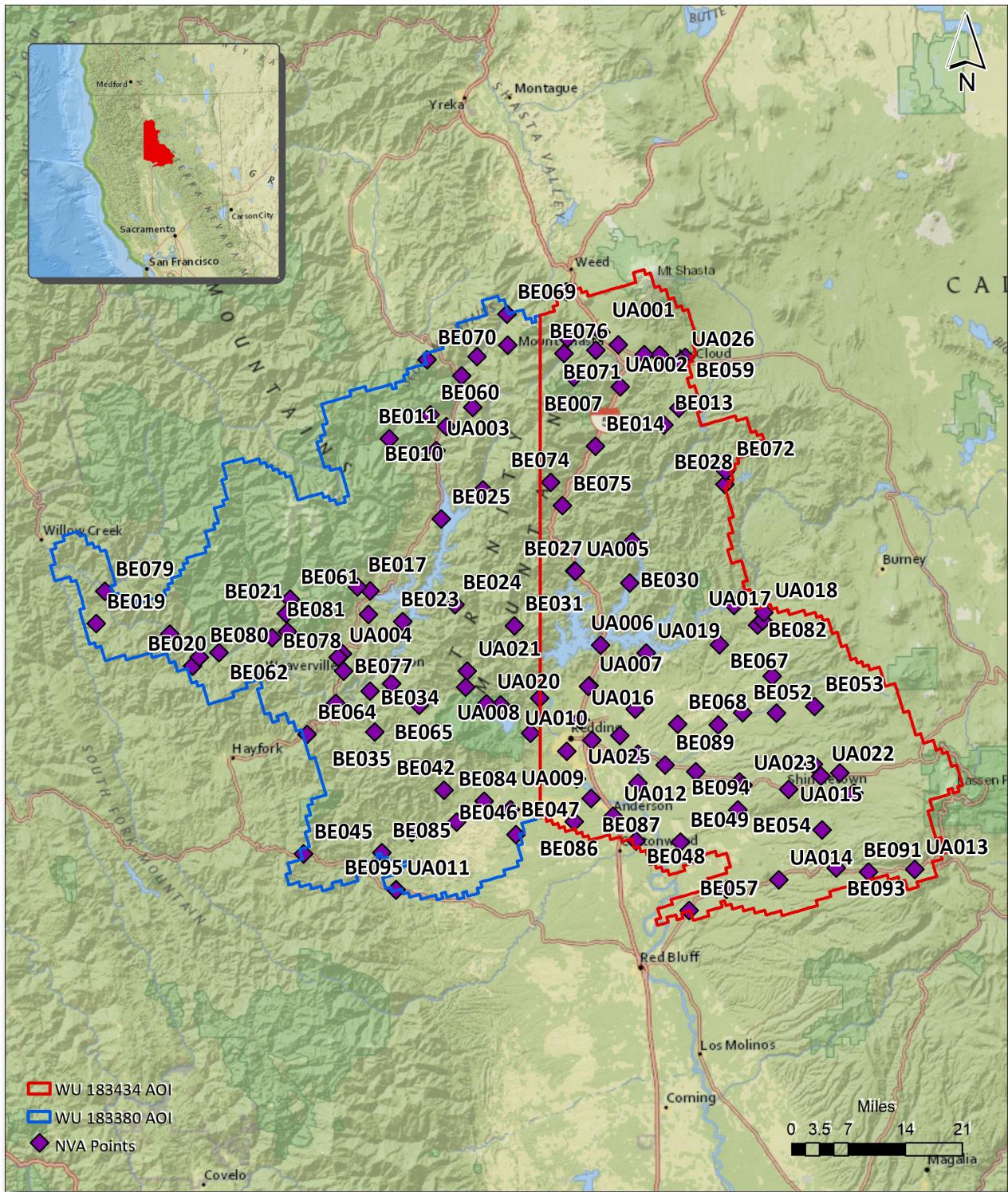


Figure 8. QC Checkpoint Locations - NVA

Carr Hirz Delta Fires 2019 VVA Points

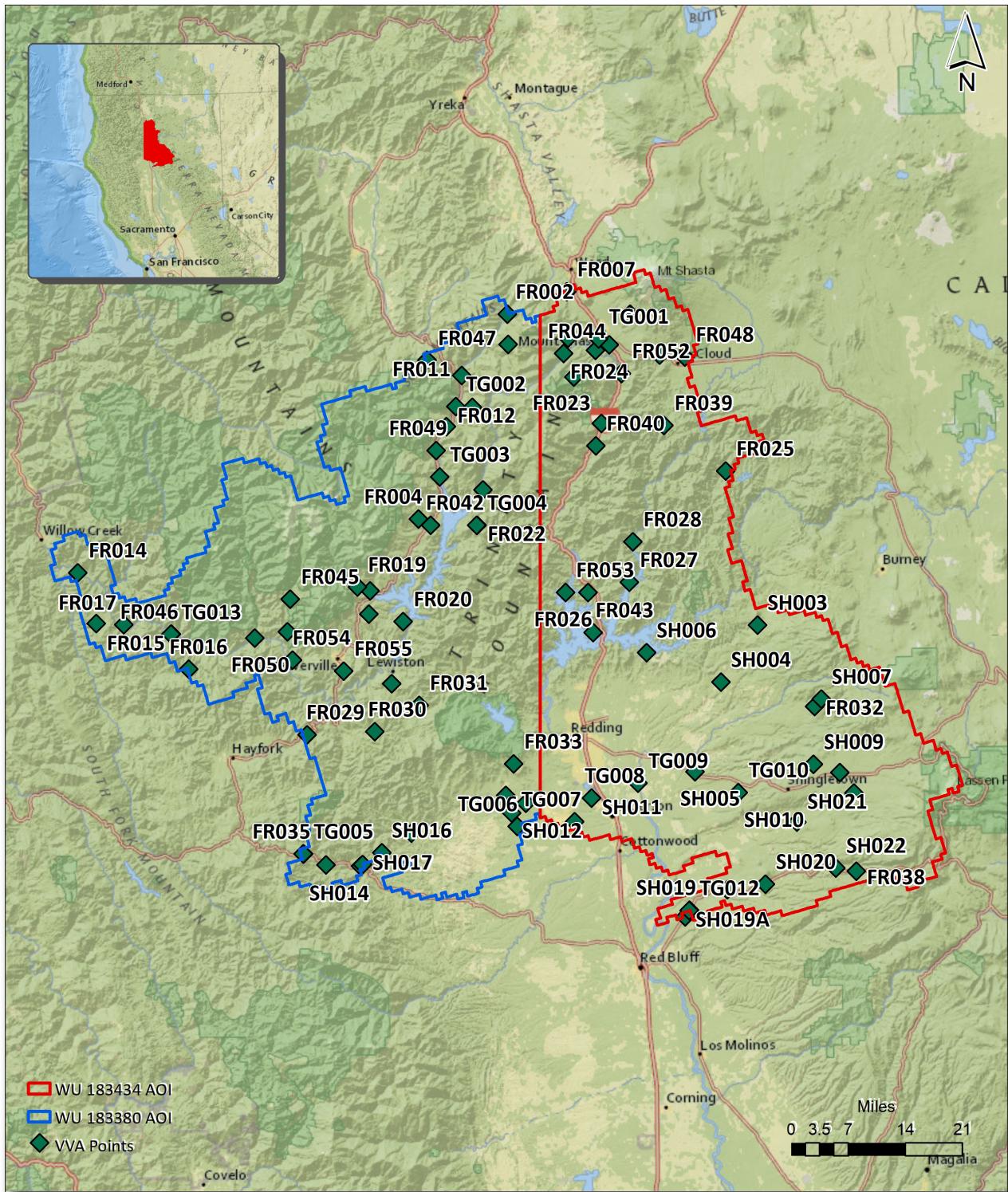


Figure 9. QC Checkpoint Locations - VVA

Project Report Appendices

The following section contains the appendices as listed in the Carr Hirz Delta Fires 2019 LiDAR Project Report.

Appendix A

Survey Report



January 23, 2020

Survey Report of
LiDAR Calibration & Quality Control Points

USGS Contract: G16PC00016

CA_CarrHirzDeltaFires_2019_B19

USGS Task Order: 140G0219F0329

Presented to:



Presented By:





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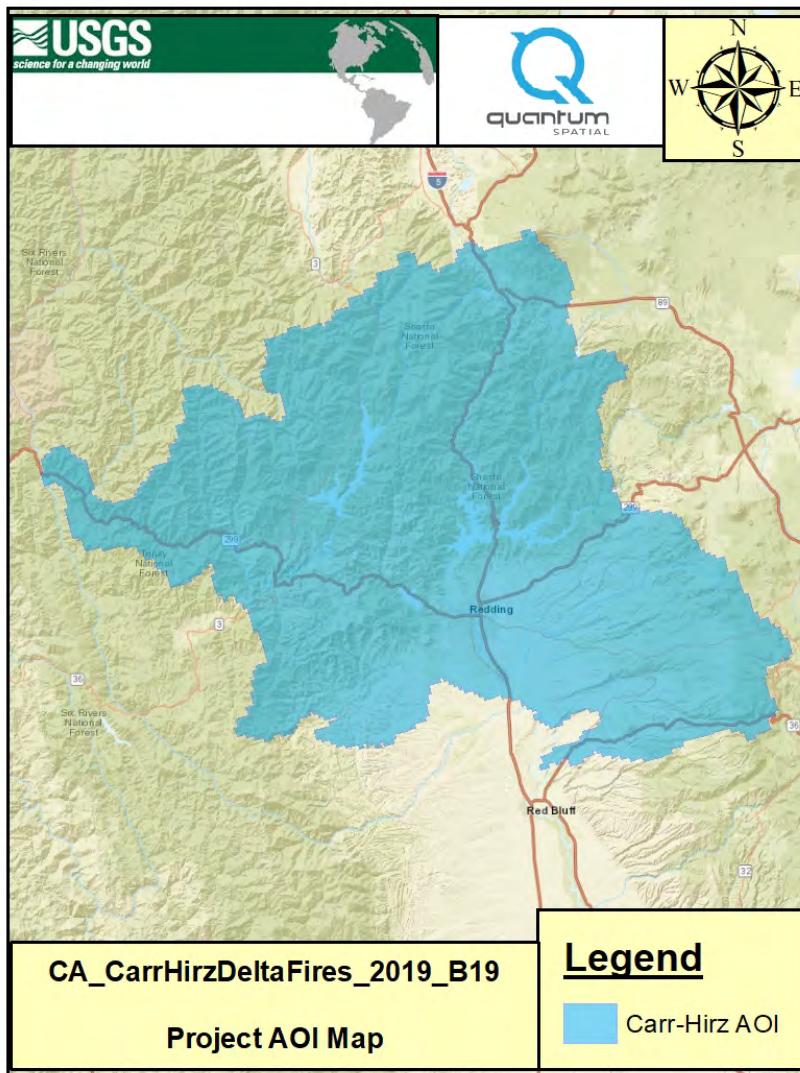


Introduction

Quantum Spatial, Inc. was contracted by USGS under task order 140G0219F0329 to survey LiDAR calibration and quality control points in support of the CA_CarrHirzDeltaFires_2019_B19 project on the State of California. The project area included portions of the counties of Humboldt, Shasta, Siskiyou, Tehama, and Trinity. This is the report of the technical approach used and detail of each point surveyed.

Project Area

The Project Area, shown in the figure below, consist of approximately 4,669 square miles.





Technical Approach to Land Cover Validation Point Selection

Referencing ASPRS Positional Accuracy Standards for Digital Geospatial Data (Edition 1, Version 1.0, - November, 2014) table C.1 Recommended Number of Checkpoints based on Area, Quantum Spatial calculated the total number of checkpoints required for the entire project area. It was determined that 121 Non-Vegetated Vertical Assessment (NVA) and 91 Vegetated Vertical Assessment (VVA) points were required for the project area.

To ensure that checkpoints were distributed generally proportionate among the various vegetated land cover types, Quantum Spatial used existing USGS Land Cover data to divide both the NVA and VVA categories among the various types, calculating the approximate number of required points in each representative type proportionate to the total project area. The resulting point classes are detailed below:

NVA Class	# of Points	VVA Class	# of Points
Bare Earth	95	Forested	56
Urban Area	26	Tall Weeds/Crops	13
		Brushland	22

Quantum Spatial has adopted the philosophy that each vegetative class must be well distributed throughout the project area. While points in varying classes may be near to one another, points of a single vegetative class may not. Proposed point locations are selected with this distribution methodology in mind; however, access to the entire AOI limited the distribution.

Survey Accuracy Requirements

Given that the survey accuracy of calibration and quality control check points should be 3 times more accurate than the required accuracy of the data set, Quantum Spatial requires that calibration and NVA points are better than 3 centimeters RMSE, both horizontally and vertically, and that VVA points be better than 5 centimeters RMSE, both horizontally and vertically. The surveyed accuracy of each point must be determined through redundant measurements and/or network adjustment using procedures and methodologies that reliably and consistently result in the aforementioned accuracies.



Due to variances in reference control accuracy and adjustment, Quantum Spatial requires that the survey methodology used be explained, so that it can be repeated if necessary.

Field Survey Methodology

Date Range: October 20, 2019 – January 6, 2020

Equipment Used:

Field crews used Trimble R7, R8 and R10 dual frequency GNSS receivers as base stations and rovers. A Trimble M3 Total Station was used for conventional measurements.

GNSS Methodology:

A combination of fast static and RTK/RTN GNSS surveying methods were used during this project. Temporary marks were established and used as base stations for RTK surveys. The California Surveying & Drafting Supply (CSDS) and Leica Smartnet RTN networks were used wherever available. The fast static GPS method consisted of collecting static data. The data was downloaded and baselines processed to CSDS, NGS, and Smartnet CORS base stations. The network was adjusted holding the CORS as control.

Conventional Methodology:

A total station was used to determine the positions of VVA-Forest points under the tree canopy. After backsight and instrument station positions were established with GNSS observations in open areas, a total station was used to observe the foresighted Forest point.

All the GNSS and conventional information was downloaded, processed and analyzed using Trimble Business Center processing software. The network of base stations were formed using NGS OPUS-Projects.

Overall Project Accuracy Statement

All point coordinates have been reported in the North American Datum of 1983 (NAD83 2011). UTM – Zone 10 coordinates in meters horizontally. Elevations are relative to the



North American Vertical Datum of 1988 (NAVD 88) which were derived using the Geoid 12B model and are reported in meters.

Calibration Points

Average Horizontal RMSE is 0.009 meter.

Average Elevation RMSE is 0.010 meter.

Average 3 dimensional RMSE is 0.014 meter.

NVA Points

Average Horizontal RMSE is 0.009 meter.

Average Elevation RMSE is 0.010 meter.

Average 3 dimensional RMSE is 0.013 meter.

VVA Points

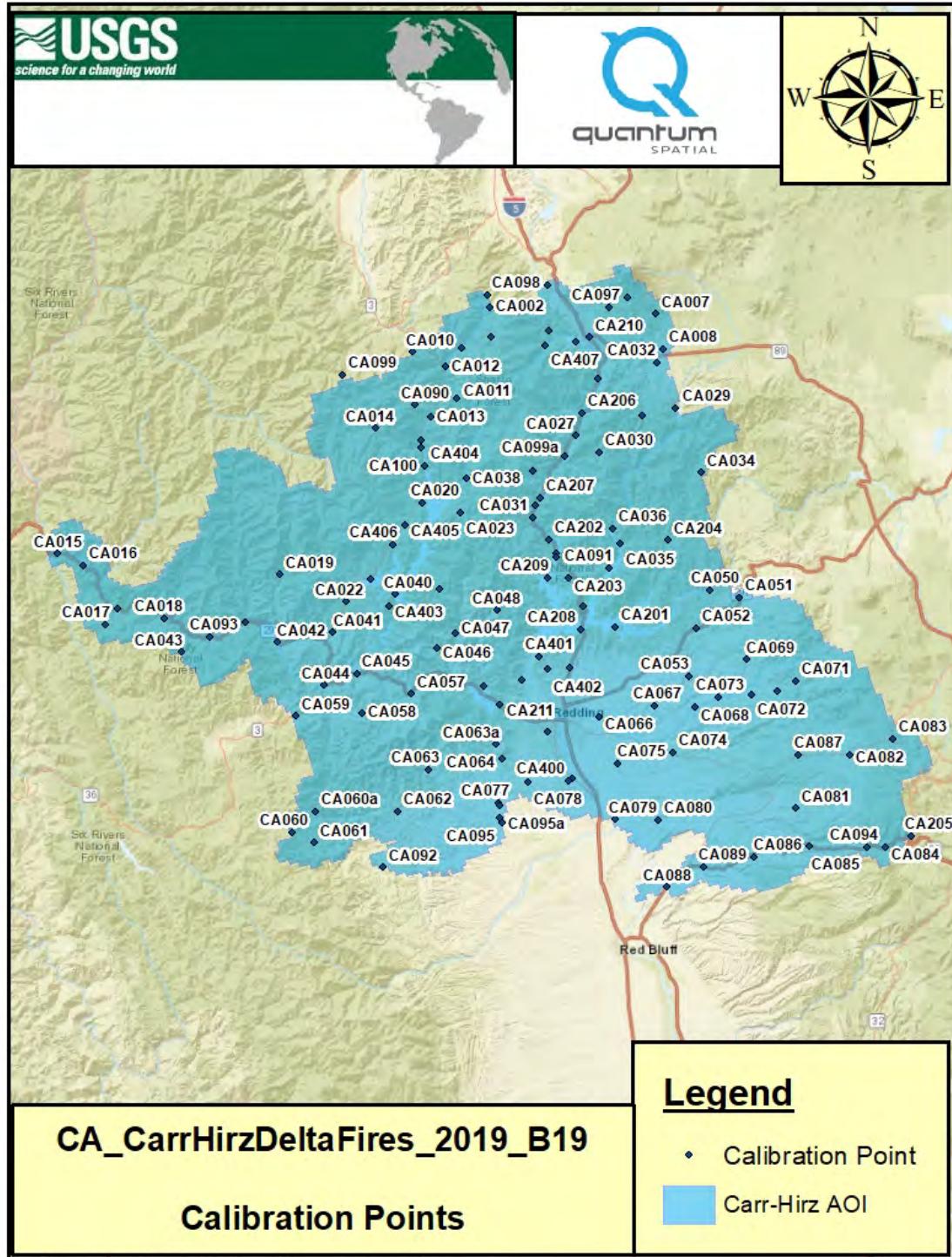
Average Horizontal RMSE is 0.013 meter.

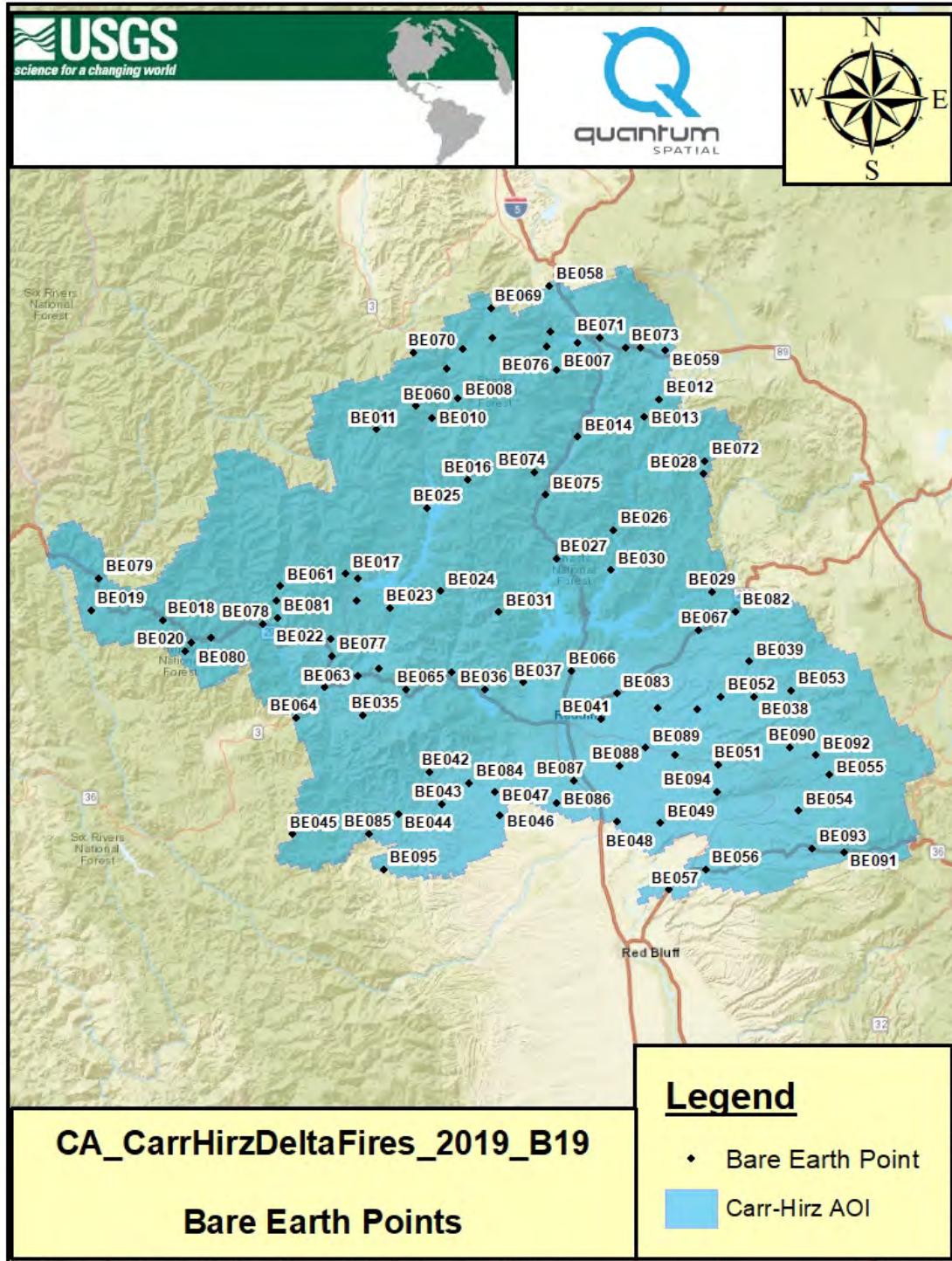
Average Elevation RMSE is 0.014 meter.

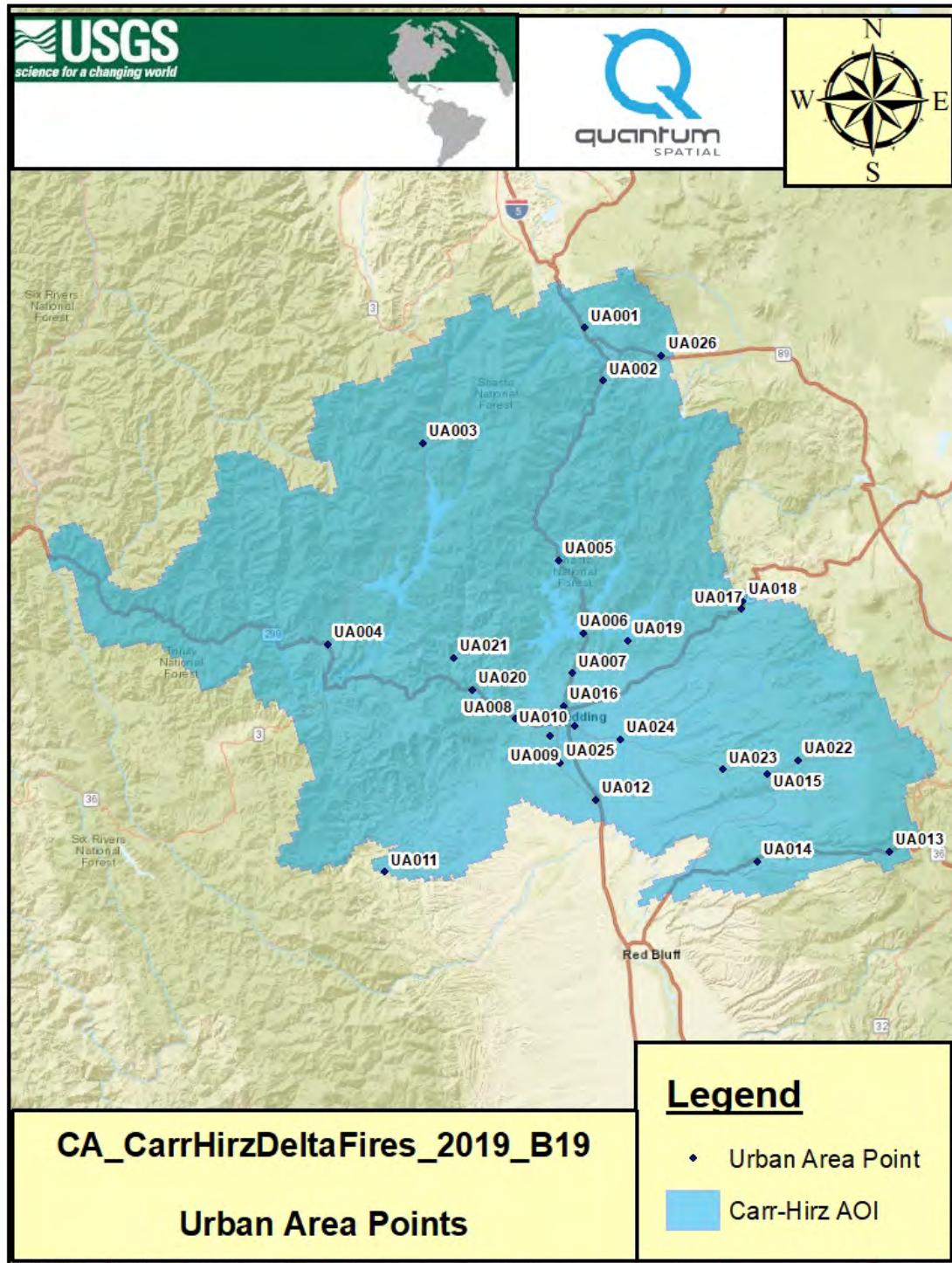
Average 3 dimensional RMSE is 0.019 meter.

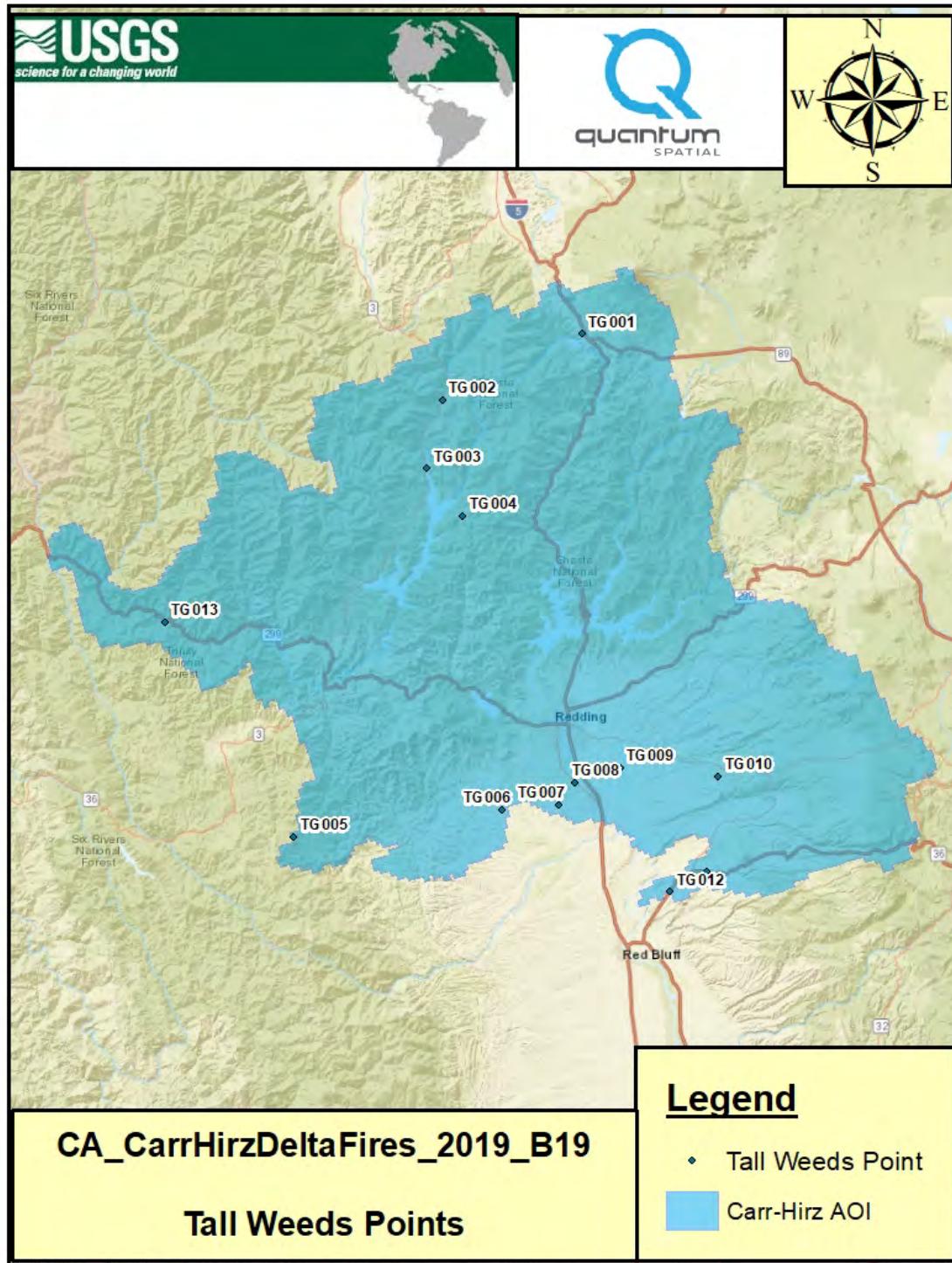


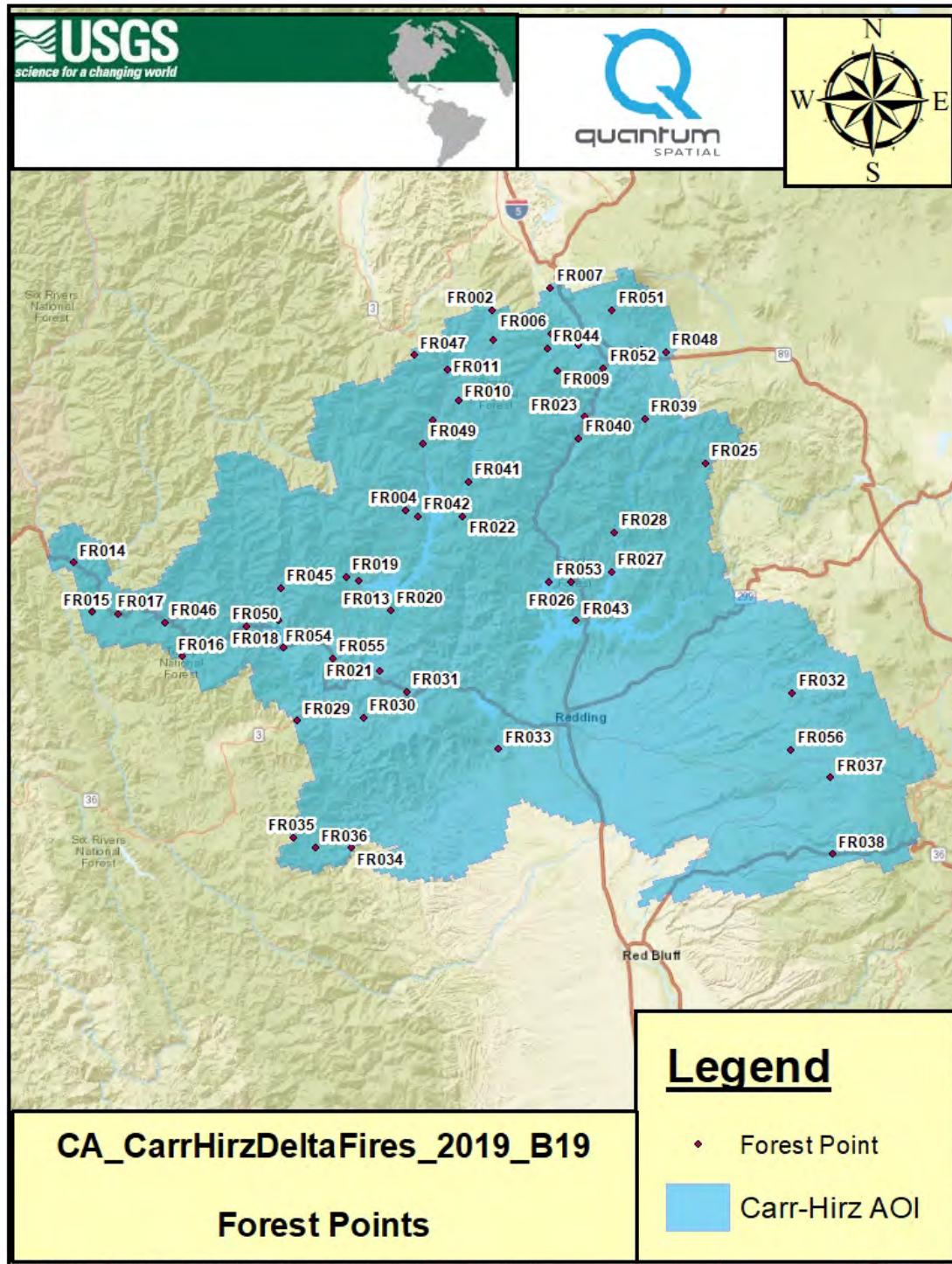
PROJECT AOI & POINT LOCATION MAPS

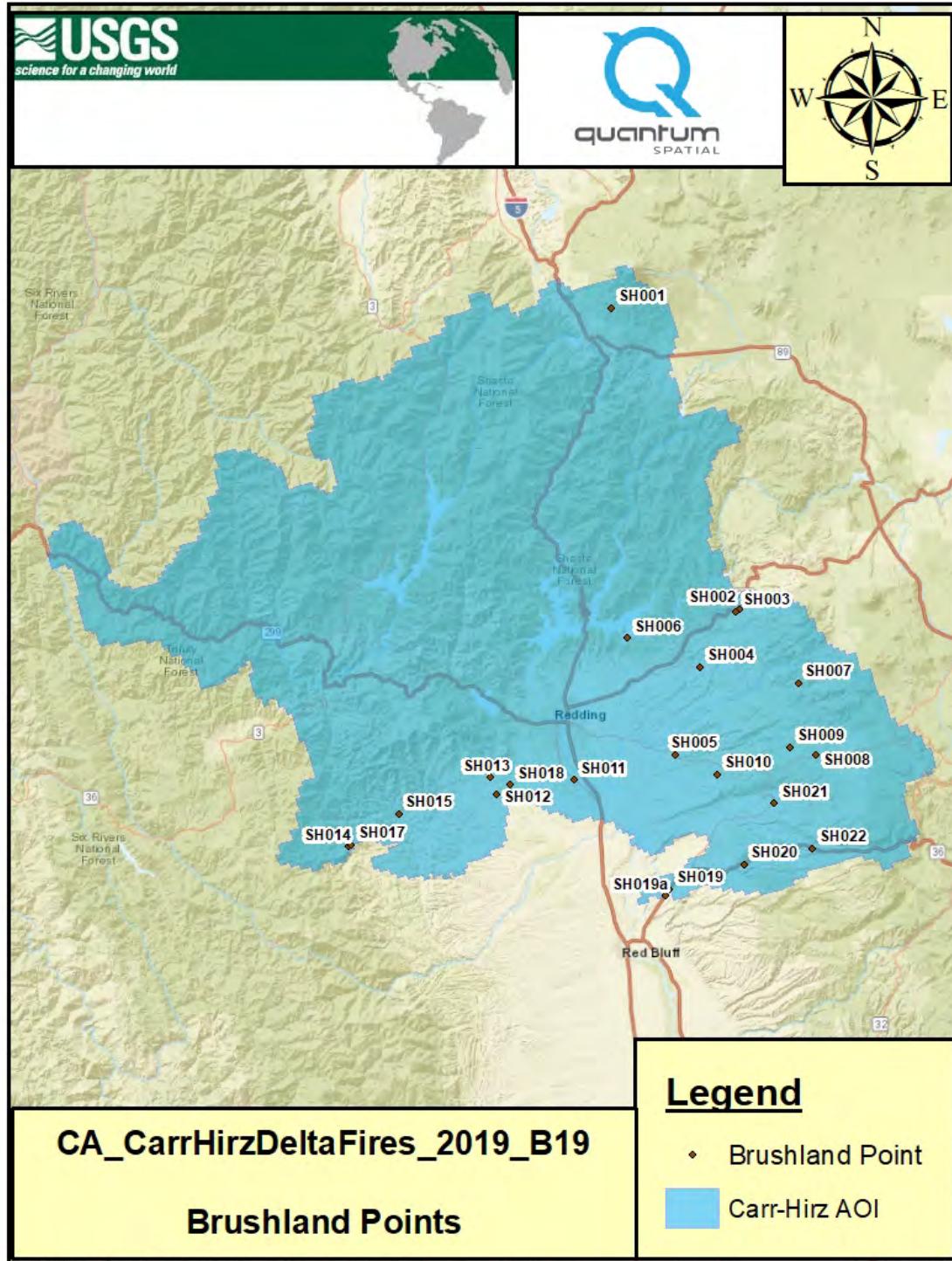














FINAL POINT COORDINATES



FINAL POINT COORDINATES

**CALIBRATION POINT COORDINATES**

Horizontal Datum - NAD83(2011)
UTM ZONE 10
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
CA001	4572259.670	550543.907	1335.318
CA002	4576943.379	538695.169	2083.168
CA003	4568604.364	532746.923	1150.016
CA004	4570969.310	538838.558	1938.518
CA005	4569854.907	556208.015	978.243
CA006	4579030.371	566634.363	2352.204
CA007	4575546.775	572449.868	1593.563
CA008	4568455.349	573789.878	1034.001
CA009	4562433.069	560675.724	768.727
CA010	4567863.337	522858.696	1930.187
CA011	4558526.152	531873.044	1635.588
CA012	4564834.800	529680.401	1000.232
CA013	4554742.221	526679.860	828.422
CA014	4552312.127	515388.645	1014.047
CA015	4526830.693	450754.033	181.071
CA016	4524502.833	455848.939	223.626
CA017	4512473.255	460412.309	871.716
CA018	4513737.978	472265.346	347.606
CA019	4522607.219	495966.492	798.834
CA020	4537147.594	524767.585	757.916
CA021	4521673.558	514415.574	725.938
CA022	4517072.202	509433.152	776.988
CA023	4535278.933	532706.261	1019.044
CA024	4536584.954	547857.565	426.706
CA025	4550005.862	524660.948	779.323
CA026	4543742.687	547292.305	1323.911
CA027	4550862.753	556110.984	570.464
CA028	4554984.876	569609.479	801.185
CA029	4556437.284	576463.945	819.652
CA030	4547523.682	560878.458	881.379



CA031	4534257.836	547419.314	429.468
CA032	4565671.904	572585.958	957.697
CA033	4527034.628	552031.508	339.854
CA034	4543315.426	581619.094	971.529
CA035	4528974.970	565191.195	485.595
CA036	4531980.978	563482.023	329.115
CA037	4526228.165	552153.042	334.413
CA038	4542250.899	533876.156	883.840
CA039	4519567.960	528344.459	1181.222
CA040	4518614.495	519453.258	725.276
CA041	4510858.097	506660.471	703.675
CA042	4508870.078	495381.599	445.795
CA043	4506850.890	475828.072	1068.785
CA044	4500100.965	504819.822	506.770
CA045	4502436.495	511572.093	679.863
CA046	4507783.620	527798.092	582.003
CA047	4510670.949	531631.393	454.937
CA048	4515357.496	540102.888	981.420
CA049	4516076.839	557540.210	357.473
CA050	4519417.080	583411.458	509.210
CA051	4518021.292	589409.932	652.204
CA052	4511640.656	580580.712	376.568
CA053	4502048.786	579195.028	311.155
CA054	4503577.090	554888.638	235.676
CA055	4501087.732	545093.177	314.202
CA056	4499871.696	537399.520	372.275
CA057	4498372.032	522591.205	980.782
CA058	4494427.248	512531.265	684.941
CA059	4493851.451	499194.481	1112.723
CA060	4470294.032	498462.101	1153.086
CA060a	4474438.166	503019.469	1273.521
CA061	4468122.095	502917.920	814.439
CA062	4474425.747	519792.381	439.826
CA063	4482906.303	526224.647	735.464
CA063a	4488108.079	539978.456	314.456
CA064	4485105.754	541032.901	293.844
CA065	4490640.642	550460.545	212.616
CA066	4493681.617	560960.955	175.022
CA067	4495957.972	571977.844	185.470
CA068	4495764.013	580356.718	341.382
CA069	4505374.287	590940.889	894.259



CA070	4498869.967	597144.578	861.081
CA071	4500946.363	600742.191	1132.732
CA072	4498145.088	591833.808	680.944
CA073	4497693.966	585186.934	423.444
CA074	4486538.363	575780.811	269.870
CA075	4484298.062	564522.674	129.737
CA076	4481311.015	555355.315	140.980
CA077	4476226.156	540277.200	264.211
CA077a	4475754.772	540607.024	255.459
CA078	4480546.813	546365.115	250.724
CA079	4472855.701	564122.018	137.552
CA080	4472655.624	572874.167	144.993
CA081	4475071.927	600853.278	957.044
CA082	4486055.379	611726.745	1339.507
CA083	4489150.424	620506.939	1757.416
CA084	4467296.570	619170.141	1496.780
CA085	4467468.789	603655.965	1010.787
CA086	4465235.556	592363.702	565.924
CA087	4485916.624	601270.902	1198.197
CA088	4459104.889	574650.926	269.370
CA089	4463261.586	582032.844	265.959
CA090	4557100.720	523461.013	1350.838
CA091	4523963.523	562826.177	340.308
CA092	4463146.728	516756.876	509.156
CA093	4510015.225	481624.760	377.024
CA094	4467214.056	615441.216	1479.017
CA095	4473244.343	540585.545	199.939
CA095a	4472132.798	541009.180	184.791
CA096	4581445.919	550397.659	1173.509
CA096a	4515563.205	462968.494	299.954
CA097	4576915.805	562948.014	1930.239
CA097a	4512968.137	488819.558	418.943
CA098	4579495.112	537998.074	1941.791
CA099	4563187.016	508532.106	1886.735
CA099a	4546726.191	553890.987	541.715
CA100	4548366.349	524597.729	760.074
CA201	4511963.154	564113.251	316.890
CA202	4529739.209	550676.830	381.627
CA203	4521968.881	554627.026	332.043
CA204	4529580.478	574952.146	425.388
CA205	4469464.389	624324.873	1744.426



CA206	4555379.954	557293.480	620.180
CA207	4538297.093	548824.214	454.487
CA208	4511539.698	557127.852	329.264
CA209	4521943.121	550244.076	323.597
CA210	4570897.192	558847.370	1088.014
CA211	4496081.095	540557.755	419.092
CA400	4480691.673	554555.911	199.872
CA401	4505908.136	548592.727	425.999
CA402	4503447.270	550429.761	251.078
CA403	4516216.892	518091.760	937.351
CA404	4544744.836	525312.944	729.333
CA405	4532670.991	521300.384	898.496
CA406	4528762.026	518886.217	856.074
CA407	4569202.079	549852.836	1168.567

**BARE EARTH POINT COORDINATES**

Horizontal Datum - NAD83(2011)

UTM ZONE 10

Vertical Datum - NAVD 88

Geoid - GEOID12B

Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
BE001	4569836.621	556158.165	979.977
BE002	4517642.076	511325.182	1007.599
BE003	4568607.196	532758.548	1149.851
BE004	4570859.992	538827.154	1933.814
BE005	4572249.544	550573.406	1332.960
BE006	4568871.576	568764.777	1188.730
BE007	4564537.705	551833.115	1658.889
BE008	4558551.421	531845.846	1633.966
BE009	4564778.808	529716.793	997.783
BE010	4554729.547	526658.132	828.017
BE011	4552329.190	515385.362	1014.745
BE012	4558393.773	572592.742	849.916
BE013	4555021.495	569610.872	801.049
BE014	4550870.357	556129.859	569.890
BE015	4522251.858	511637.077	739.399
BE016	4542239.914	533888.394	883.535
BE017	4523056.461	509125.924	758.669
BE018	4513701.094	472078.140	354.741
BE019	4515785.892	457538.497	875.185
BE020	4507457.316	476566.273	980.796
BE021	4517794.664	495079.931	620.458
BE022	4509820.629	506127.081	657.423
BE023	4516199.789	518074.795	937.369
BE024	4519575.654	528344.642	1181.278
BE025	4536494.595	525657.508	729.730
BE026	4531996.631	563425.376	322.924
BE027	4526214.768	551976.546	332.713
BE028	4543307.530	581639.184	971.054
BE029	4519408.550	583429.496	510.697
BE030	4523828.426	562885.228	321.001
BE031	4515351.081	540106.559	981.256



BE032	4503209.322	530491.912	398.902
BE033	4503972.216	515882.986	753.013
BE034	4502447.418	511598.921	678.118
BE035	4494402.599	512532.960	685.617
BE036	4499777.301	537395.748	372.549
BE037	4501063.072	545058.635	313.323
BE038	4498142.069	591819.417	680.957
BE039	4505372.630	590961.132	894.740
BE040	4495762.078	580356.715	341.305
BE041	4493683.526	560966.931	174.927
BE042	4482908.583	526223.247	735.396
BE043	4476559.908	528722.410	293.605
BE044	4474452.924	519802.625	442.629
BE045	4470329.450	498436.341	1153.559
BE046	4474109.246	540443.020	238.855
BE047	4479056.296	539340.885	317.481
BE048	4472845.414	564120.578	137.485
BE049	4472648.644	572873.580	144.709
BE050	4486503.457	575898.229	272.376
BE051	4484491.580	584556.768	531.941
BE052	4498149.311	585203.173	448.258
BE053	4499442.246	599411.546	1055.134
BE054	4475069.585	600847.763	956.760
BE055	4482366.200	607143.394	1240.598
BE056	4463271.936	582021.867	265.218
BE057	4459127.056	574626.994	268.226
BE058	4581414.905	550398.353	1173.967
BE059	4568435.495	573813.579	1033.369
BE060	4557102.886	523450.868	1350.929
BE061	4520629.440	495842.523	659.869
BE062	4510072.360	481778.239	382.196
BE063	4500080.555	504823.415	506.116
BE064	4493909.579	499194.216	1109.700
BE065	4499659.649	521293.887	862.842
BE066	4503552.945	554883.774	234.835
BE067	4511642.430	580597.799	376.652
BE068	4495948.986	572369.802	173.701
BE069	4576941.017	538651.230	2084.292
BE070	4567959.015	522884.069	1925.028
BE071	4570893.533	560653.028	1148.212
BE072	4546000.616	581855.428	1011.228



BE073	4568919.998	565752.694	1363.246
BE074	4543725.267	547271.384	1321.610
BE075	4539092.605	549625.325	461.588
BE076	4569189.024	549863.691	1167.543
BE077	4506394.435	506385.970	590.463
BE078	4513020.180	492264.742	438.002
BE079	4522183.435	459228.292	370.251
BE080	4509168.008	477920.769	479.849
BE081	4514160.207	495300.207	583.262
BE082	4515511.311	588123.657	602.735
BE083	4498867.108	563993.732	166.246
BE084	4480734.765	534118.955	273.114
BE085	4470566.504	513941.557	678.426
BE086	4476669.833	551940.662	225.355
BE087	4481251.002	555297.586	141.678
BE088	4484269.099	564509.363	129.807
BE089	4487823.233	569898.913	163.206
BE090	4487998.413	599145.269	1161.315
BE091	4466684.071	610022.817	1328.396
BE092	4486332.345	604324.973	1216.945
BE093	4467473.510	603685.765	1011.505
BE094	4478980.227	584217.207	567.507
BE095	4463262.973	516752.787	506.026

**URBAN AREA POINT COORDINATES**

Horizontal Datum - NAD83(2011)

UTM ZONE 10

Vertical Datum - NAVD 88

Geoid - GEOID12B

Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
UA001	4573367.147	557226.978	1069.200
UA002	4562579.779	560996.135	718.226
UA003	4550032.006	524656.326	779.115
UA004	4509166.687	505347.639	628.999
UA005	4526189.793	552172.604	333.989
UA006	4511527.527	557139.043	329.405
UA007	4503376.026	554731.144	234.753
UA008	4494138.527	543291.321	305.885
UA009	4490583.227	550476.433	213.369
UA010	4492745.932	555396.489	183.255
UA011	4463137.385	516747.256	509.192
UA012	4477787.963	559586.466	130.985
UA013	4467303.841	619186.325	1496.907
UA014	4465201.216	592346.263	565.765
UA015	4483059.186	594272.770	1064.184
UA016	4496782.420	553116.236	216.209
UA017	4516351.773	589124.993	633.167
UA018	4517973.791	589403.879	652.836
UA019	4510018.963	566152.814	350.744
UA020	4500009.552	534572.077	373.263
UA021	4506413.233	530828.844	420.505
UA022	4485692.273	600621.571	1182.258
UA023	4483882.244	585227.741	575.981
UA024	4490061.713	564494.781	140.038
UA025	4485162.355	552400.373	143.409
UA026	4567679.910	572969.022	1001.866

**TALL WEED POINT COORDINATES**

Horizontal Datum - NAD83(2011)

UTM ZONE 10

Vertical Datum - NAVD 88

Geoid - GEOID12B

Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
TG001	4572042.263	556756.211	1023.124
TG002	4558693.509	528502.038	887.110
TG003	4544801.459	525346.168	728.373
TG004	4535276.317	532690.808	1018.584
TG005	4470305.199	498430.130	1151.200
TG006	4475753.366	540626.988	256.647
TG007	4476671.382	551987.074	224.655
TG008	4481301.078	555371.258	140.835
TG009	4484311.186	564506.975	129.728
TG010	4482419.563	584322.745	549.932
TG011	4463235.638	582124.071	266.152
TG012	4459099.588	574631.333	268.313
TG013	4513684.459	472303.928	336.446



FOREST POINT COORDINATES

Horizontal Datum - NAD83(2011)
UTM ZONE 10
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
FR001	4569819.640	556134.795	979.877
FR002	4576931.879	538718.875	2081.746
FR003	4517649.158	511337.830	1008.112
FR004	4536486.496	521130.382	1041.181
FR005	4570977.586	538879.602	1940.835
FR006	4572232.781	550641.326	1325.114
FR007	4581397.206	550411.969	1174.311
FR008	4568854.420	568760.192	1187.981
FR009	4564548.653	551815.473	1658.414
FR010	4558570.892	531837.066	1633.344
FR011	4564870.950	529670.612	997.501
FR012	4554737.012	526696.092	828.595
FR013	4522267.259	511629.680	738.984
FR014	4525867.807	453915.344	208.528
FR015	4515811.537	457512.466	877.876
FR016	4506838.962	475816.930	1068.331
FR017	4515553.025	462945.224	299.313
FR018	4514174.123	495274.399	583.533
FR019	4523052.627	509113.864	758.822
FR020	4516217.207	518112.241	937.164
FR021	4503954.673	515893.247	752.996
FR022	4535269.163	532708.847	1018.650
FR023	4555370.593	557280.574	619.796
FR024	4570909.353	558856.035	1088.683
FR025	4546000.396	581841.690	1011.154
FR026	4521954.337	554613.117	331.424
FR027	4523994.372	562804.144	343.118
FR028	4532012.634	563470.619	327.587
FR029	4493823.465	499200.137	1112.757
FR030	4494436.311	512534.475	685.048
FR031	4499653.822	521276.455	863.579



FR032	4499438.975	599426.364	1055.364
FR033	4488102.708	539961.342	313.229
FR034	4468187.942	510101.115	755.178
FR035	4470291.156	498482.975	1154.608
FR036	4468131.144	502885.925	814.130
FR037	4482351.688	607150.691	1240.703
FR038	4466862.238	607617.845	1166.294
FR039	4554955.685	569609.326	800.642
FR040	4550915.826	556208.141	566.769
FR041	4542266.885	533875.952	884.169
FR042	4535264.678	523535.837	905.394
FR043	4514064.031	555661.663	332.301
FR044	4569211.168	549856.470	1168.908
FR045	4520662.785	495865.144	660.745
FR046	4513729.882	472341.395	337.430
FR047	4567832.745	522890.664	1939.101
FR048	4568465.382	573772.913	1034.305
FR049	4549991.048	524675.252	780.856
FR050	4512983.537	488822.263	418.985
FR051	4576922.510	562968.504	1927.797
FR052	4565266.754	561210.494	803.712
FR053	4521986.215	550222.528	326.630
FR054	4508620.136	496322.661	491.920
FR055	4506412.282	506382.395	590.620
FR056	4488014.456	599143.310	1160.907

**BRUSHLAND POINT COORDINATES**

Horizontal Datum - NAD83(2011)
UTM ZONE 10
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
SH001	4576919.766	562900.686	1925.426
SH002	4516054.460	588910.980	623.115
SH003	4515529.863	588113.637	604.544
SH004	4504269.744	580880.770	446.044
SH005	4486549.683	575766.747	269.379
SH006	4510089.370	566186.642	349.116
SH007	4500926.771	600726.707	1130.826
SH008	4486356.222	604333.915	1217.892
SH009	4488002.324	599176.755	1163.847
SH010	4482403.051	584312.517	550.205
SH011	4481316.872	555370.214	140.677
SH012	4478410.028	539587.815	314.762
SH013	4481862.782	538372.245	333.595
SH014	4467862.082	509716.435	709.694
SH015	4474437.347	519778.491	440.151
SH016	4470564.979	513908.852	678.133
SH017	4468172.902	510094.757	755.818
SH018	4480346.385	542398.183	243.782
SH019	4459176.824	574667.159	268.194
SH019a	4457884.274	573820.530	268.802
SH020	4464316.192	589715.331	550.318
SH021	4476569.671	595929.726	617.315
SH022	4467488.836	603580.081	1007.435



POINT DATA AND ACCURACY LOG SHEETS



CALIBRATION POINT LOG SHEETS



Point ID	CA001
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Mount Eddy

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4572259.67	550543.907	1335.318

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/21/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA002
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	South China Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

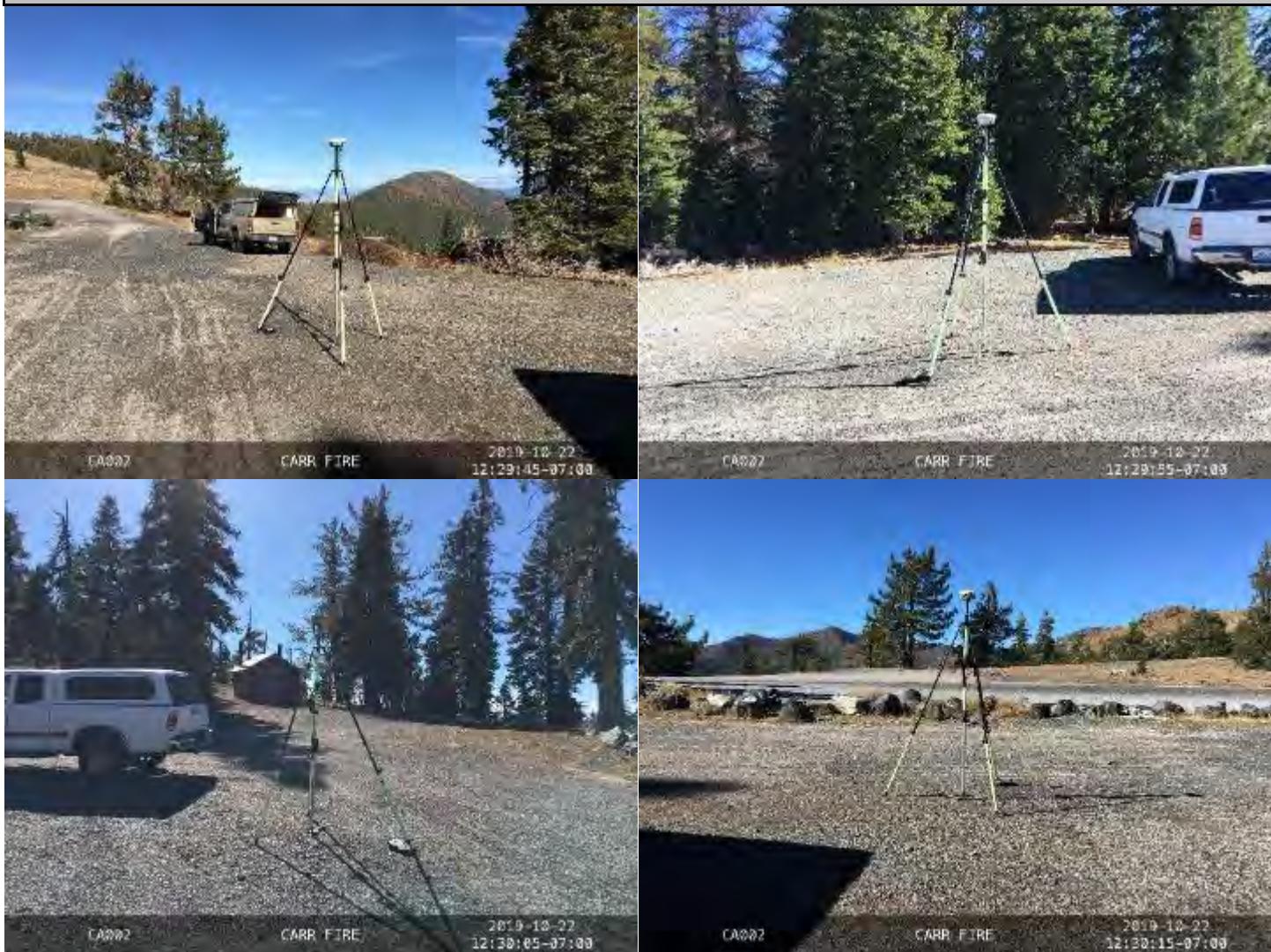
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4576943.379	538695.169	2083.168

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/22/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA003
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	South China Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

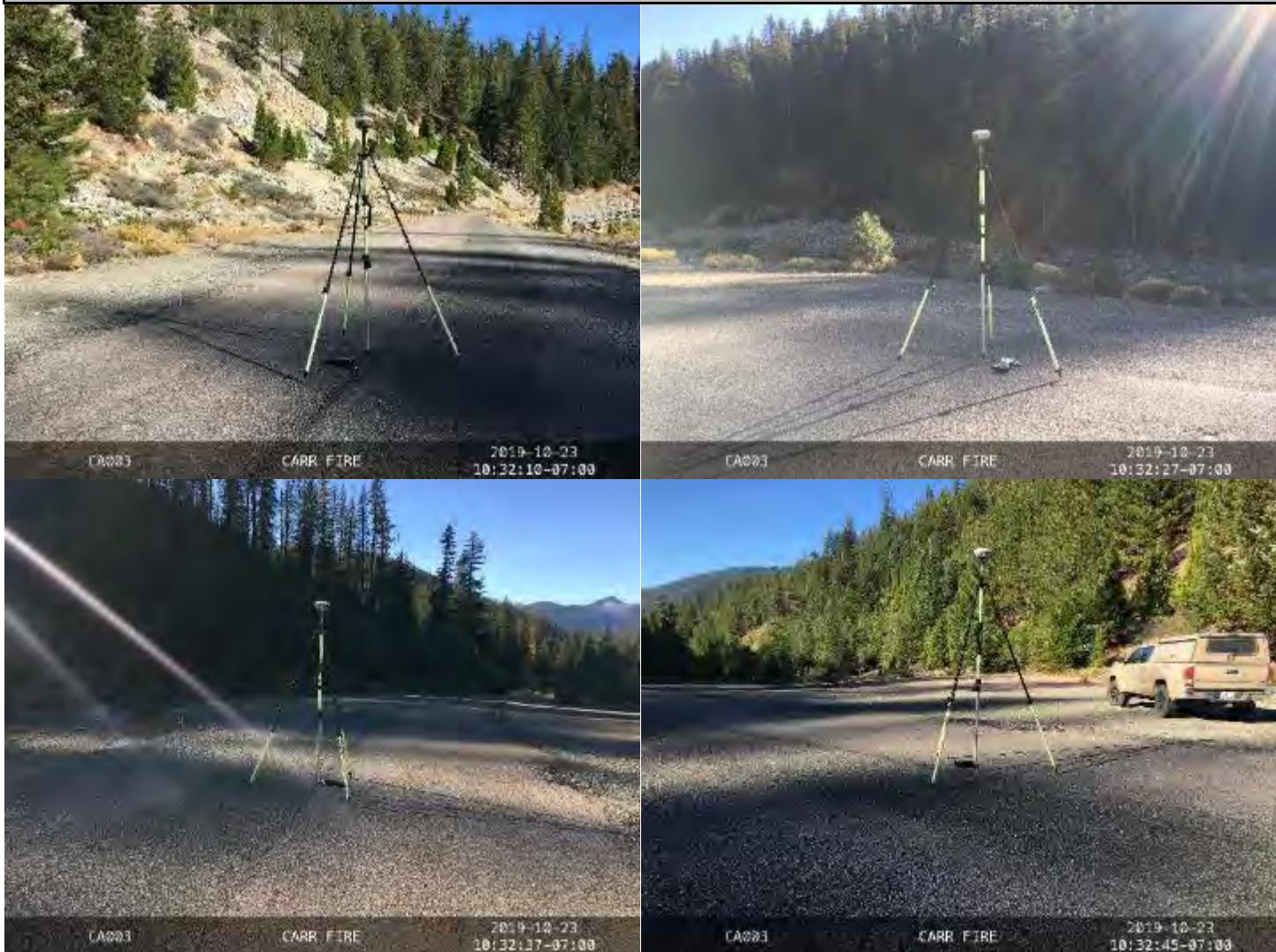
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4568604.364	532746.923	1150.016

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/23/2019
RMSE Hz	0.016
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA004
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	South China Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

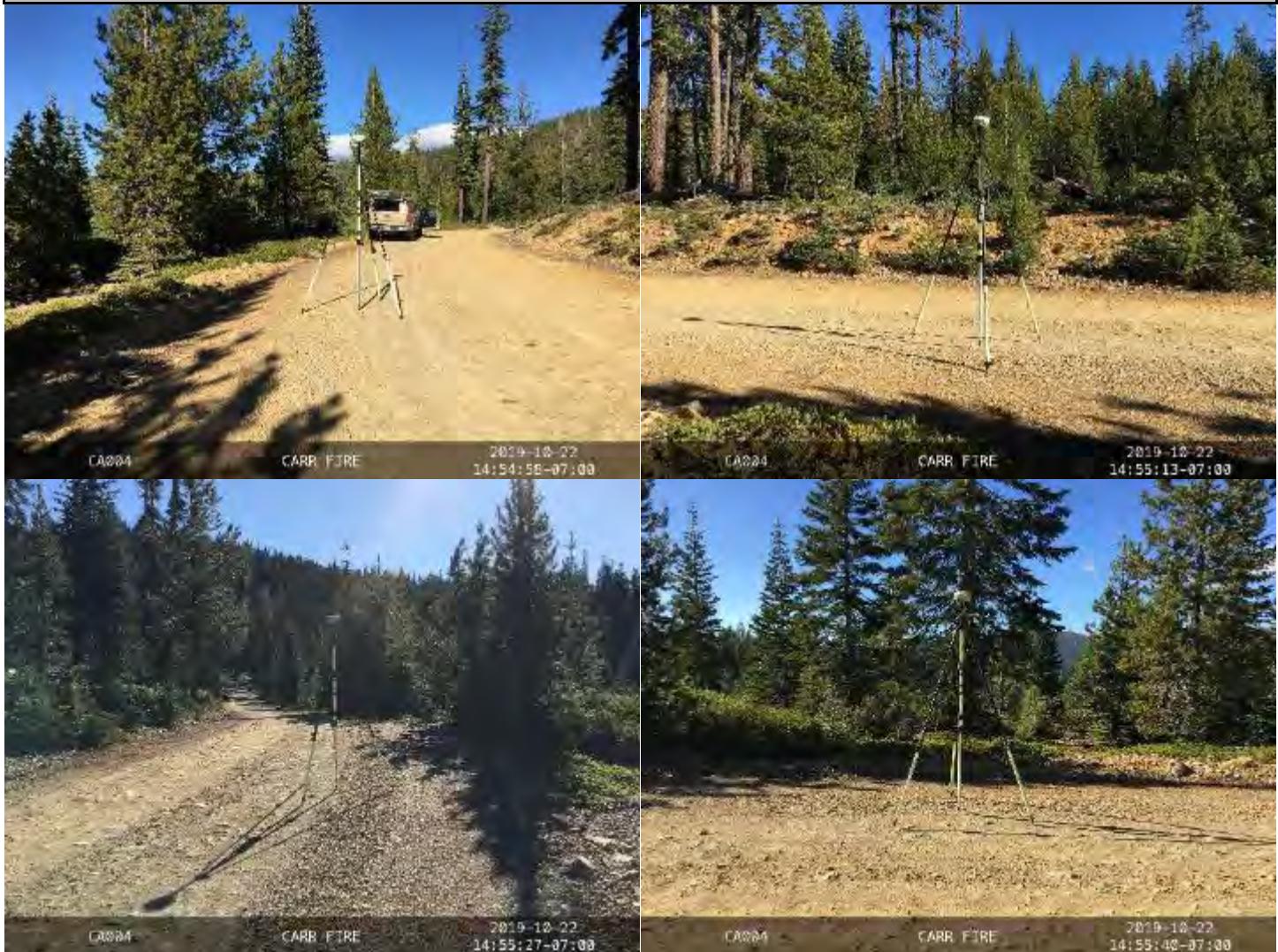
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4570969.31	538838.558	1938.518

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/22/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA005
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	City of Mount Shasta

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4569854.907	556208.015	978.243

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	RTK

PHOTOS:





Point ID	CA006
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	McCloud

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

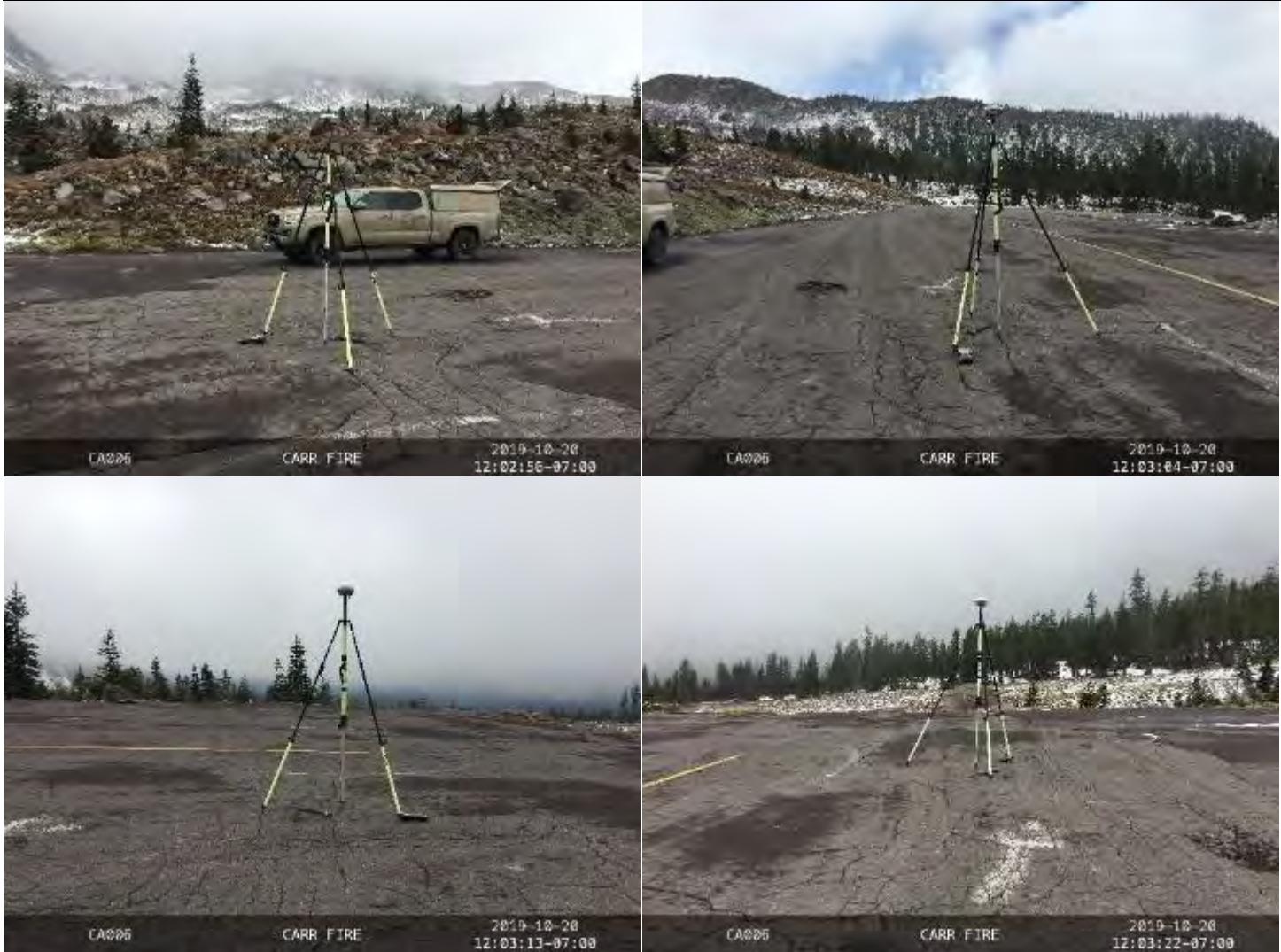
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4579030.371	566634.363	2352.204

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA007
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	McCloud

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

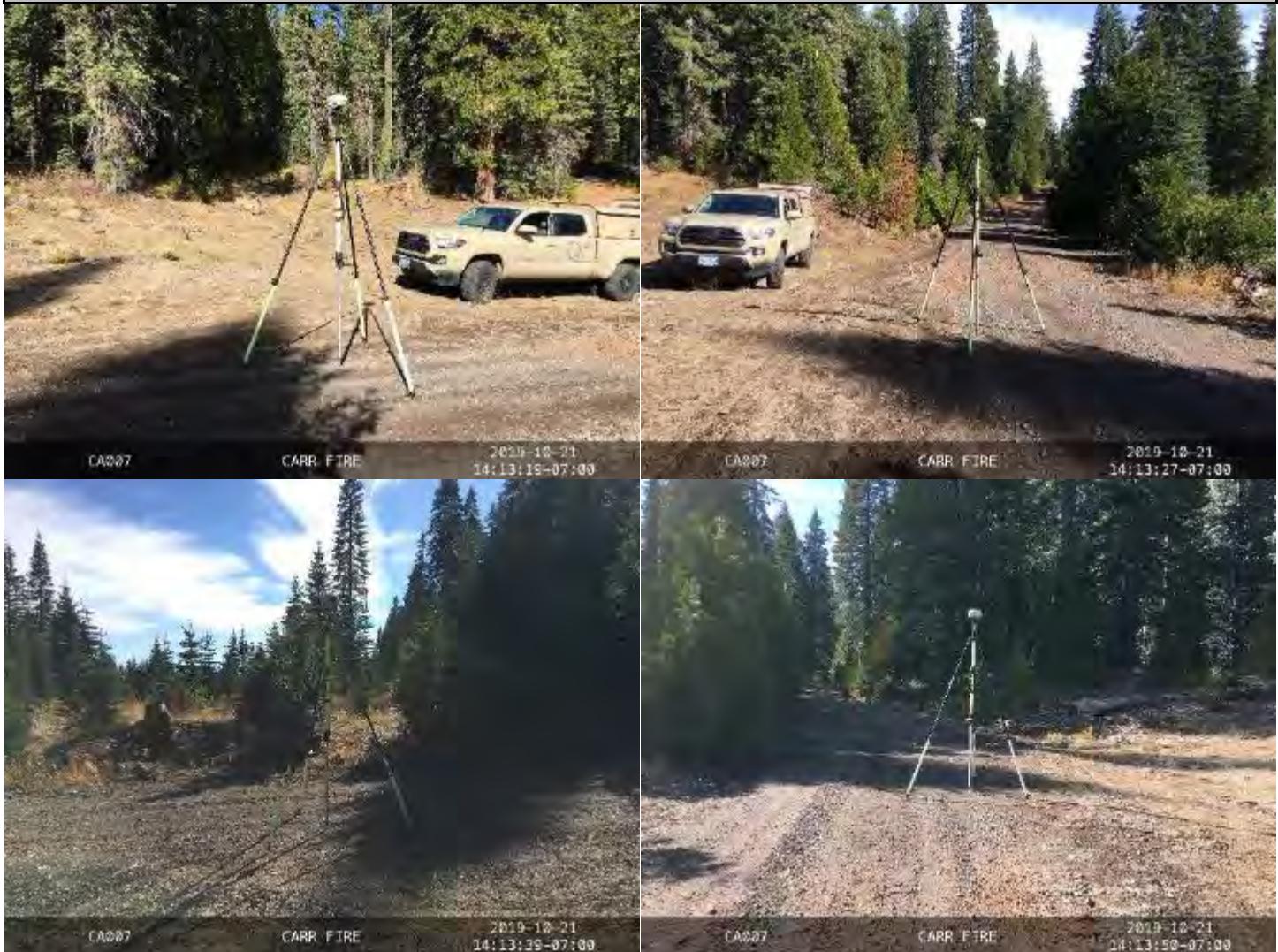
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4575546.775	572449.868	1593.563

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/21/2019
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	CA008
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Elk Spring

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4568455.349	573789.878	1034.001

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/21/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA009
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Dunsmuir

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

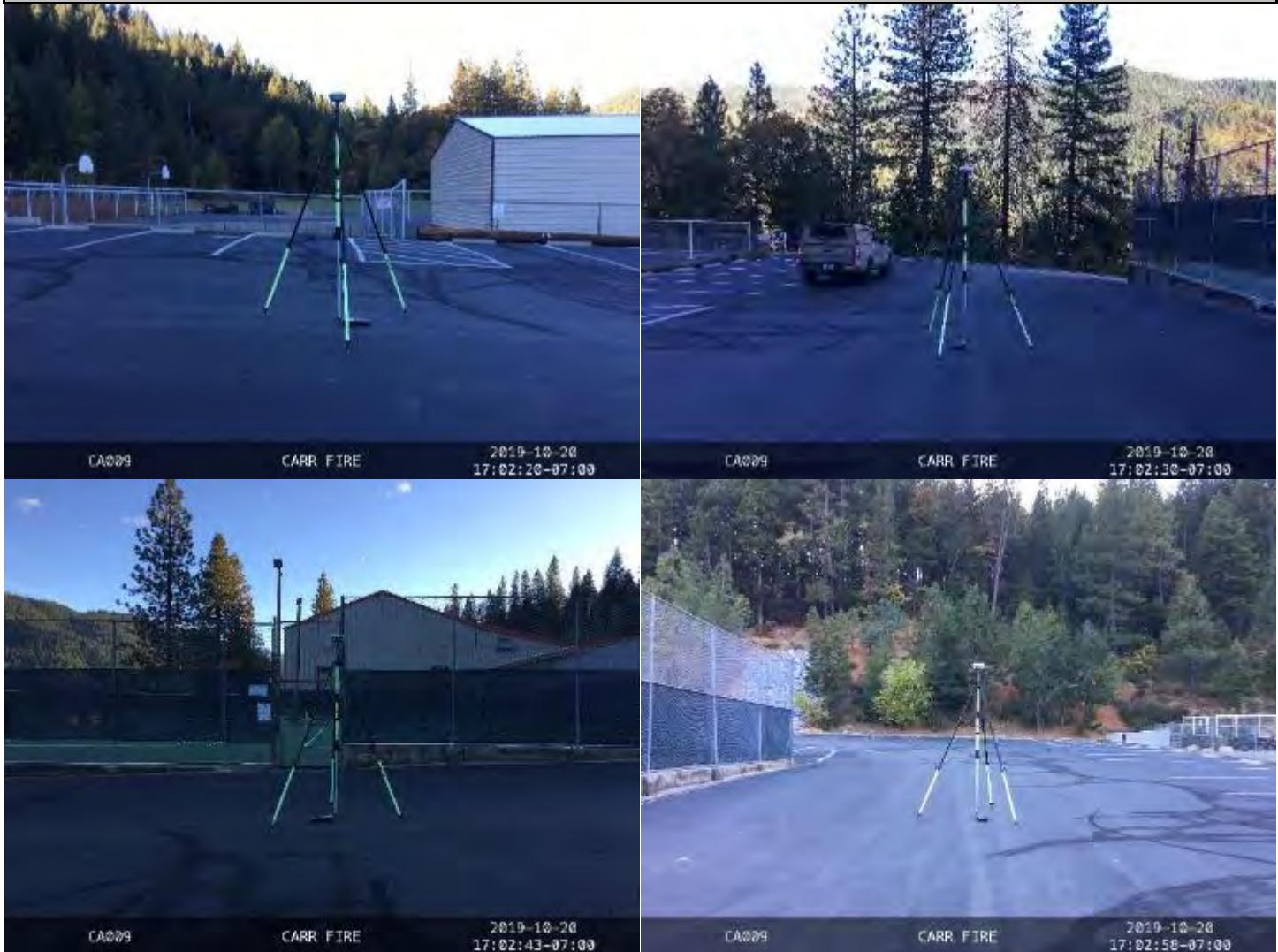
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4562433.069	560675.724	768.727

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	CA010
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Scott Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4567863.337	522858.696	1930.187

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/23/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA011
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Mumbo Basin

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

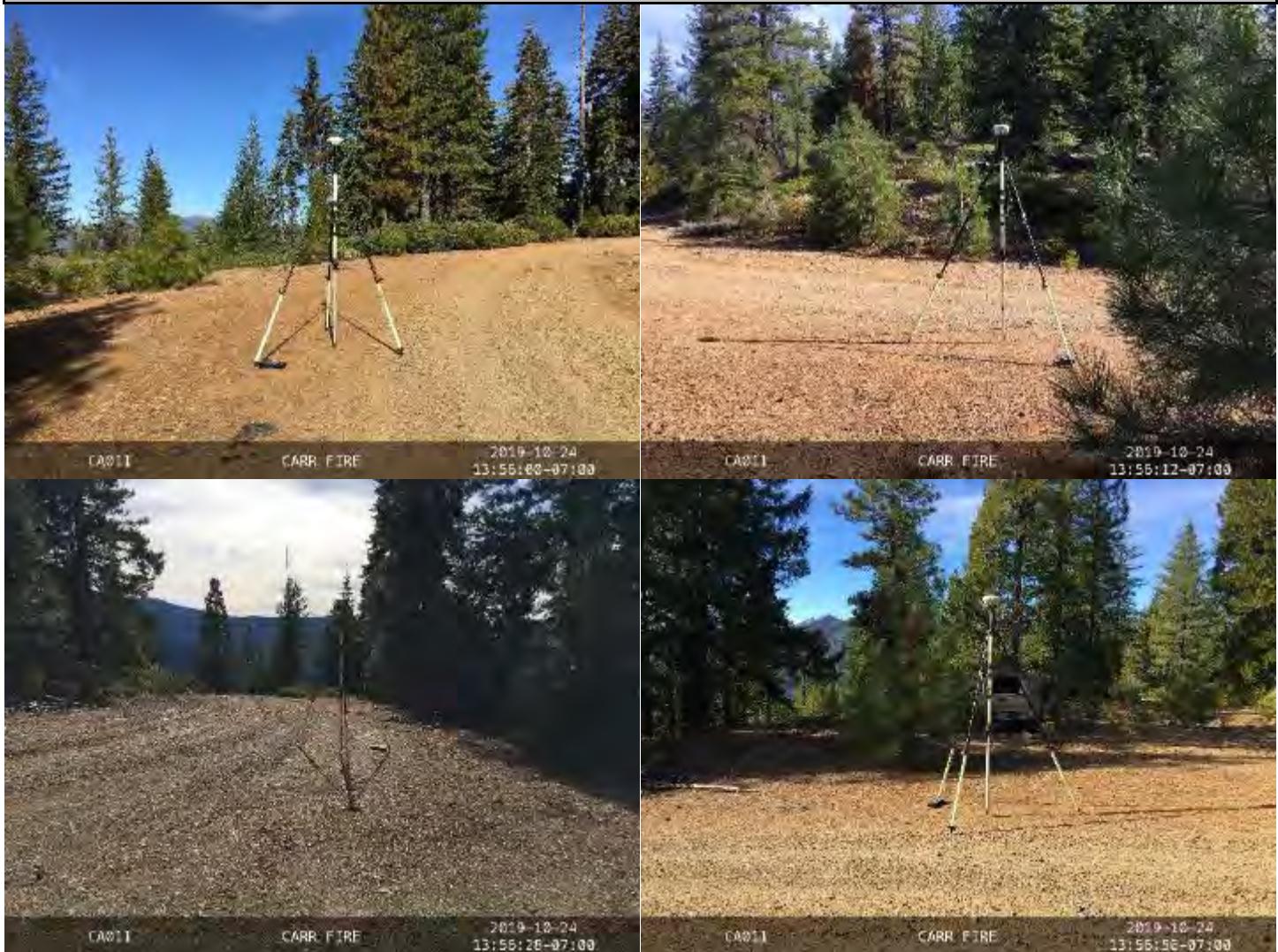
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4558526.152	531873.044	1635.588

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA012
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Tangle Blue Lake

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

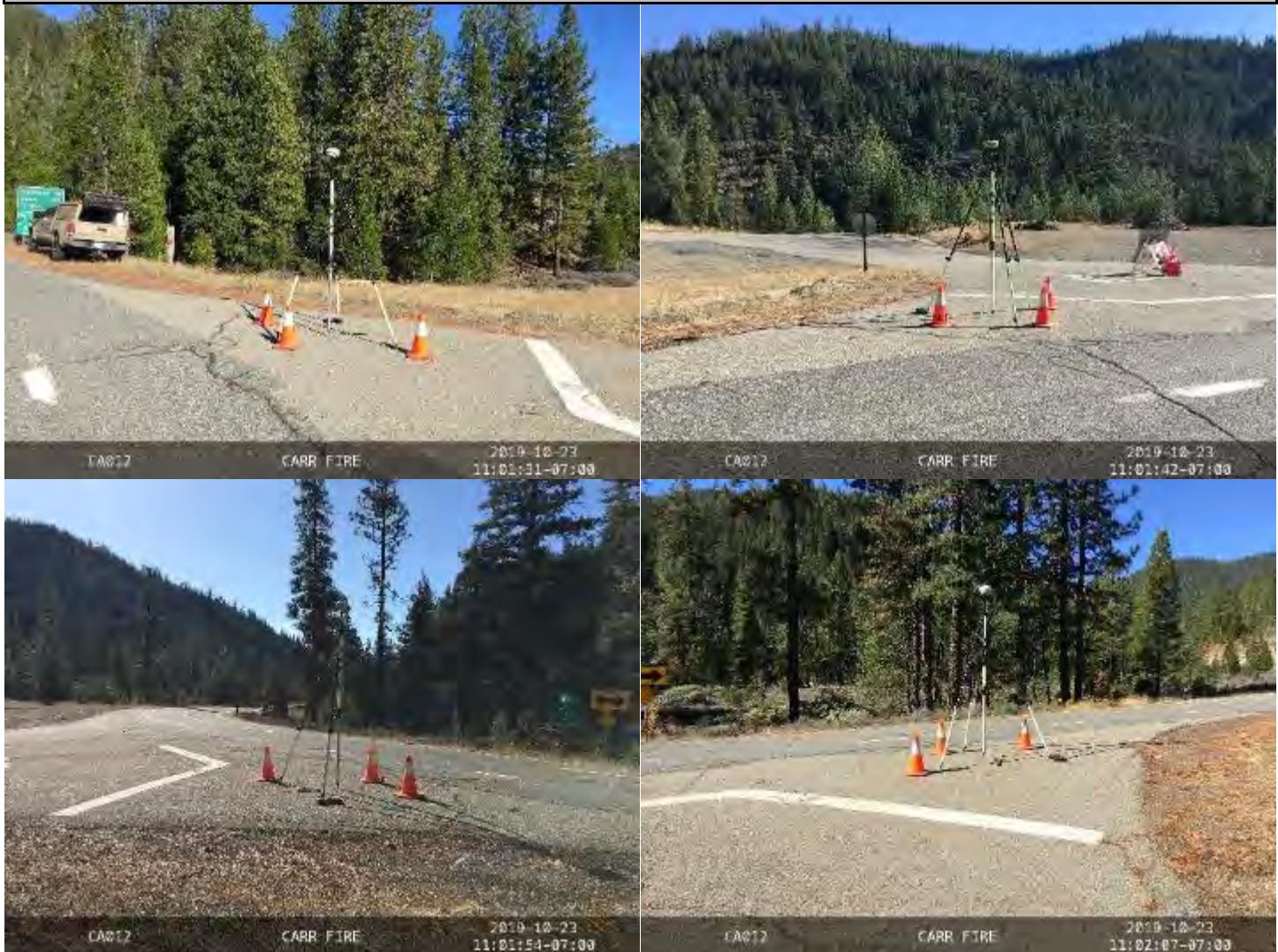
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4564834.8	529680.401	1000.232

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/23/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA013
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Tangle Blue Lake

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4554742.221	526679.86	828.422

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.011
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA014
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Ycatapom Peak

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4552312.127	515388.645	1014.047

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



CA014

CARR FIRE

2019-10-25
15:24:56-07:00

CA014

CARR FIRE

2019-10-25
15:25:28-07:00

CA014

CARR FIRE

2019-10-25
15:25:46-07:00

CA014

CARR FIRE

2019-10-25
15:25:59-07:00



Point ID	CA015
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	SALYER

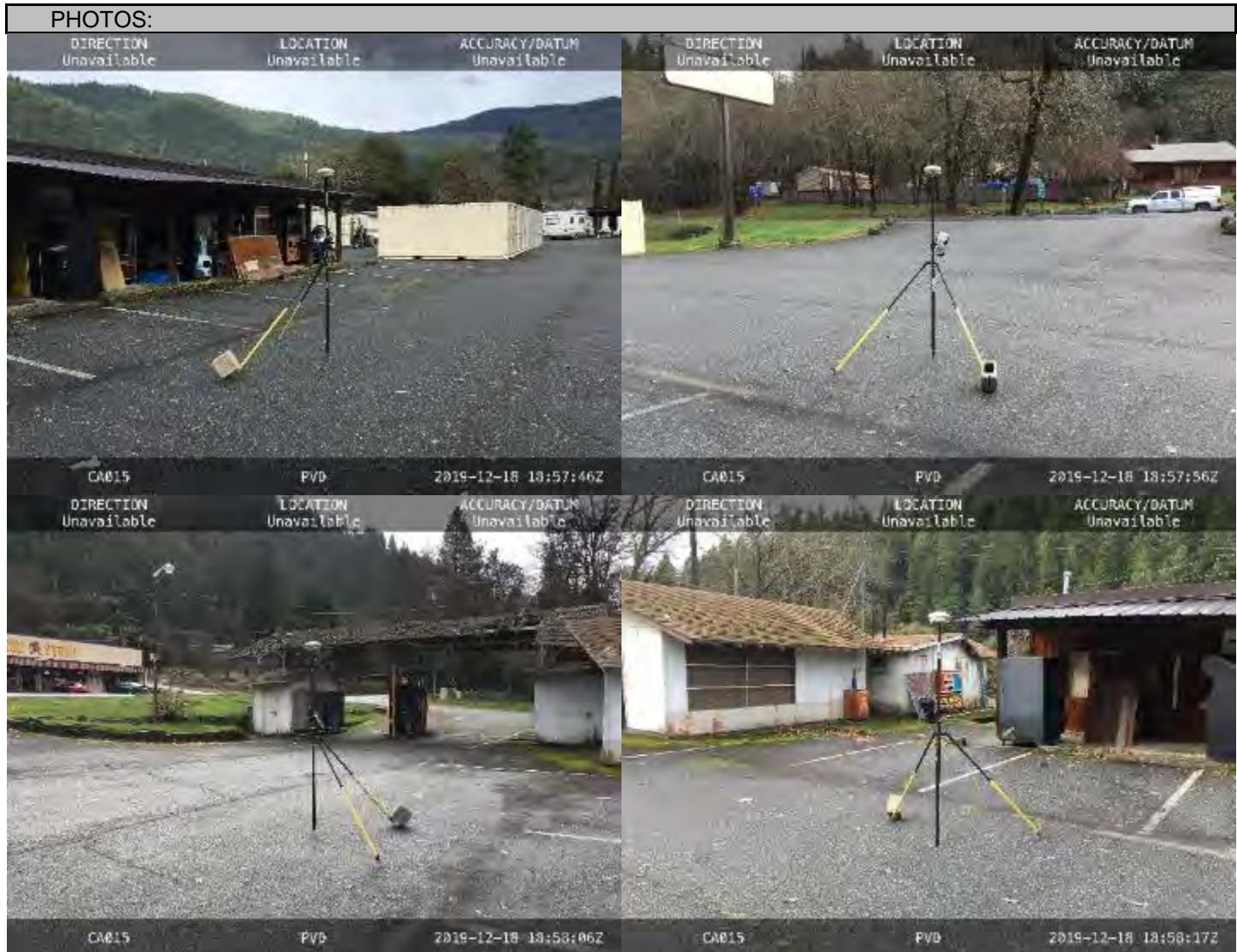
X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4526830.693	450754.033	181.071

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/18/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	FS





Point ID	CA016
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	HENNESSY PEAK

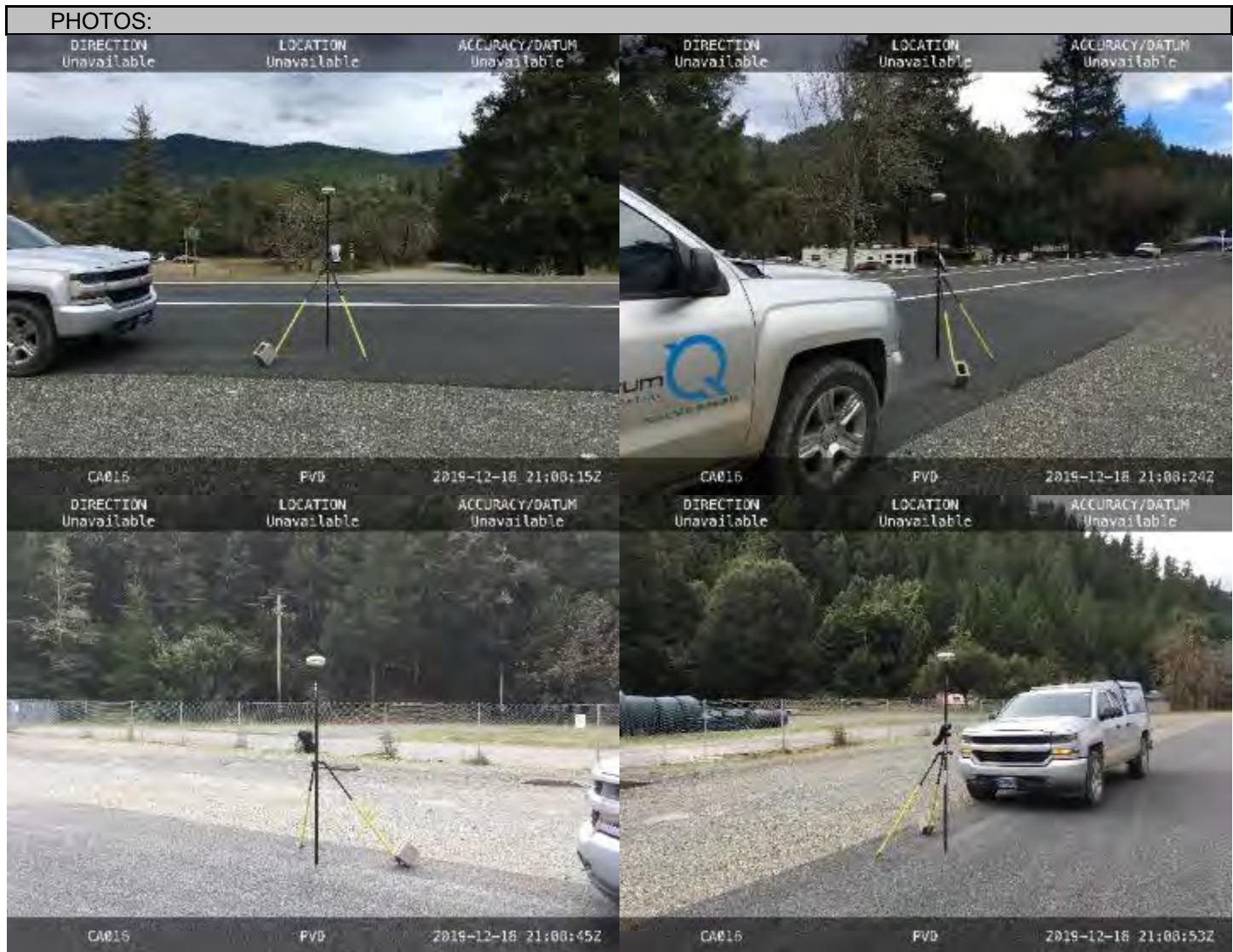
Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4524502.833	455848.939	223.626

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/18/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	FS





Point ID	CA017
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	IRONSIDE MOUNTAIN

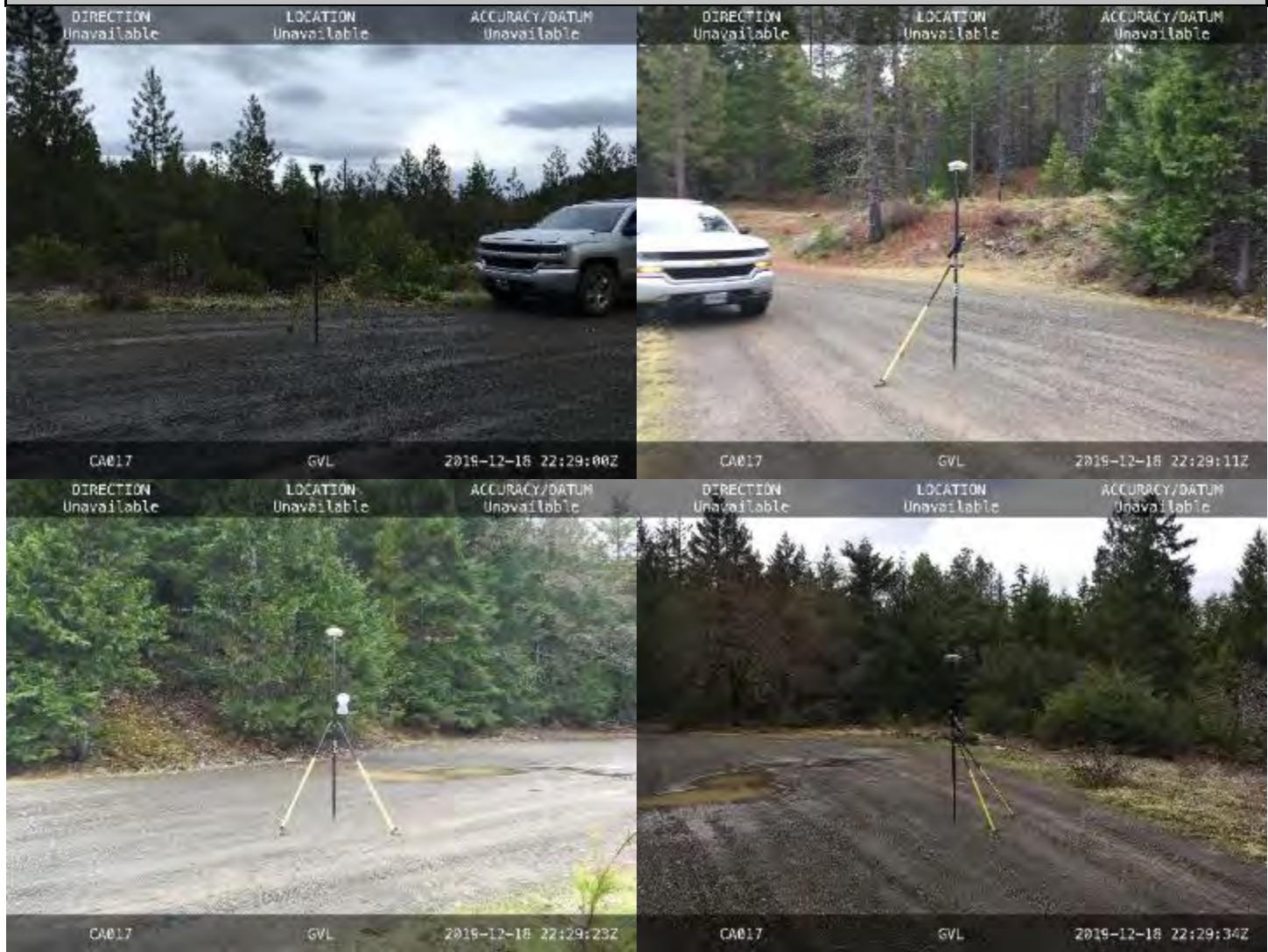
	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEODE12B
Meters

Northing	Easting	Elevation
4512473.255	460412.309	871.716

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/18/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	FS

PHOTOS:



Point ID	CA018
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEL LOMA

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4513737.978	472265.346	347.606

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/19/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	FS

PHOTOS:



Point ID	CA019
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEDRICK

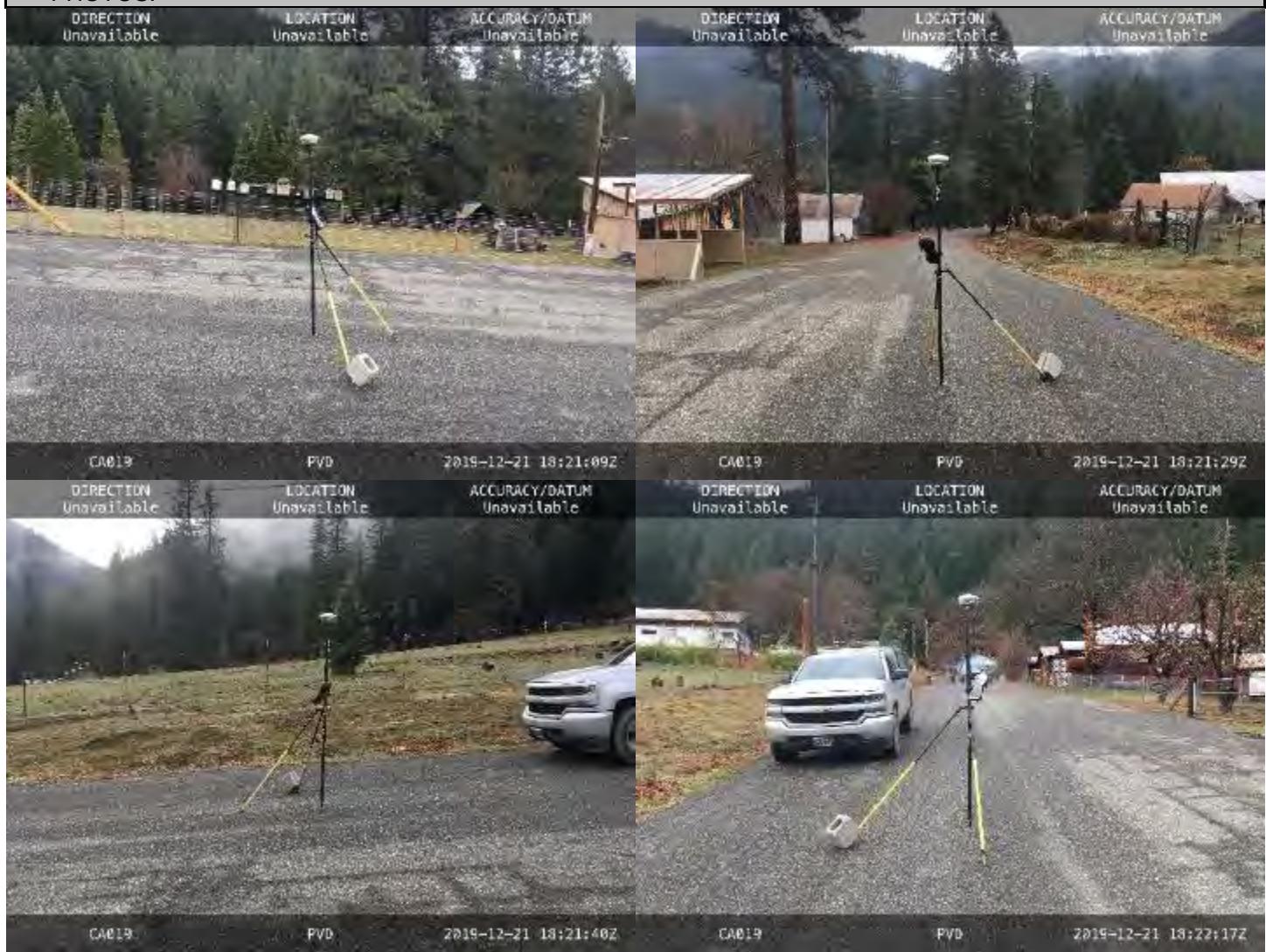
	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4522607.219	495966.492	798.834

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/21/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	FS

PHOTOS:



Point ID	CA020
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Center

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4537147.594	524767.585	757.916

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	CA021
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4521673.558	514415.574	725.938

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	CA022
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Rush Creek Lakes

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4517072.202	509433.152	776.988

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	RTK

PHOTOS:



Point ID	CA023
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Damnation Peak

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4535278.933	532706.261	1019.044

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	CA024
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Lamoine

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4536584.954	547857.565	426.706

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA025
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Carville

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

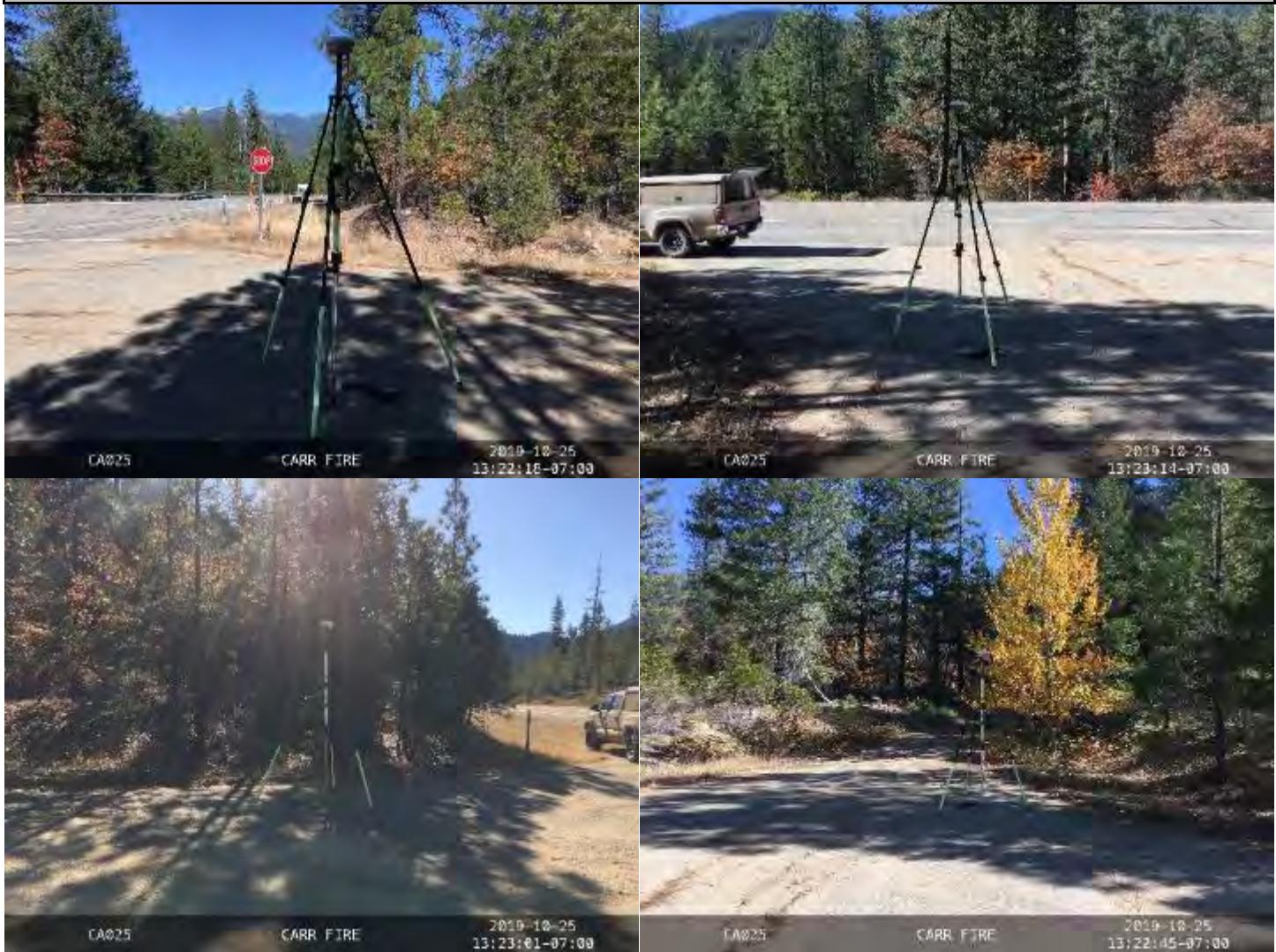
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4550005.862	524660.948	779.323

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA026
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Chicken Hawk Hill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4543742.687	547292.305	1323.911

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	CA027
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Tombstone Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4550862.753	556110.984	570.464

Operator	Emily Gottesfeld
Receiver Model	Trimble R8-3
Receiver S/N	R8_9860
Antenna Height	2.000m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Azimuth: 6° (N)
Time: 10-25-2019 12:00:35
Note: CA027



Azimuth: 65° (E)
Time: 10-25-2019 12:00:55
Note: CA027



Azimuth: 182° (S)
Time: 10-25-2019 12:02:00
Note: CA027



Azimuth: 237° (W)
Time: 10-25-2019 12:02:20
Note: CA027



Point ID	CA028
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Girard Ridge

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4554984.876	569609.479	801.185

Operator	Emily Gottesfeld
Receiver Model	Trimble R8-3
Receiver S/N	R8_9860
Antenna Height	2.000m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FastStatic

PHOTOS:



Azimuth: 357° (N)
Time: 10-25-2019 16:21:25
Note: CA028



Azimuth: 71° (E)
Time: 10-25-2019 16:21:58
Note: CA028



Azimuth: 158° (S)
Time: 10-25-2019 16:22:12
Note: CA028



Azimuth: 234° (W)
Time: 10-25-2019 16:23:01
Note: CA028



Point ID	CA029
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Lake McCloud

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4556437.284	576463.945	819.652

Operator	Emily Gottesfeld
Receiver Model	Trimble R8-3
Receiver S/N	R8_9860
Antenna Height	2.000m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	FastStatic

PHOTOS:





Point ID	CA030
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Tombstone Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4547523.682	560878.458	881.379

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/06/2020
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:





Point ID	CA031
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Lamoine

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4534257.836	547419.314	429.468

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.015
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	CA032
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Girard Ridge

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4565671.904	572585.958	957.697

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Time: 01-04-2020 10:08
Note: CA032



Time: 01-04-2020 10:09
Note: CA032



Time: 01-04-2020 10:09
Note: CA032



Time: 01-04-2020 10:09
Note: CA032



Point ID	CA033
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Lamoine

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4527034.628	552031.508	339.854

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA034
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shoeinhorse Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4543315.426	581619.094	971.529

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.002
RMSE Z	0.002
GPS Method	Fast Static

PHOTOS:





Point ID	CA035
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Bolibokka Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4528974.970	565191.195	485.595

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	Fast Static

PHOTOS:





Point ID	CA036
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Bollibokka Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4531980.978	563482.023	329.115

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/31//2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	Fast Static

PHOTOS:





Point ID	CA037
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Lamoine

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4526228.165	552153.042	334.413

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA038
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Whisky Bill Peak

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4542250.899	533876.156	883.840

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	CA039
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Papoose Creek

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4519567.960	528344.459	1181.222

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.005
RMSE Z	0.004
GPS Method	RTK

PHOTOS:





Point ID	CA040
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4518614.495	519453.258	725.276

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	CA041
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	WEAVERVILLE

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4510858.097	506660.471	703.675

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/21/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	FS





Point ID	CA042
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	JUNCTION CITY

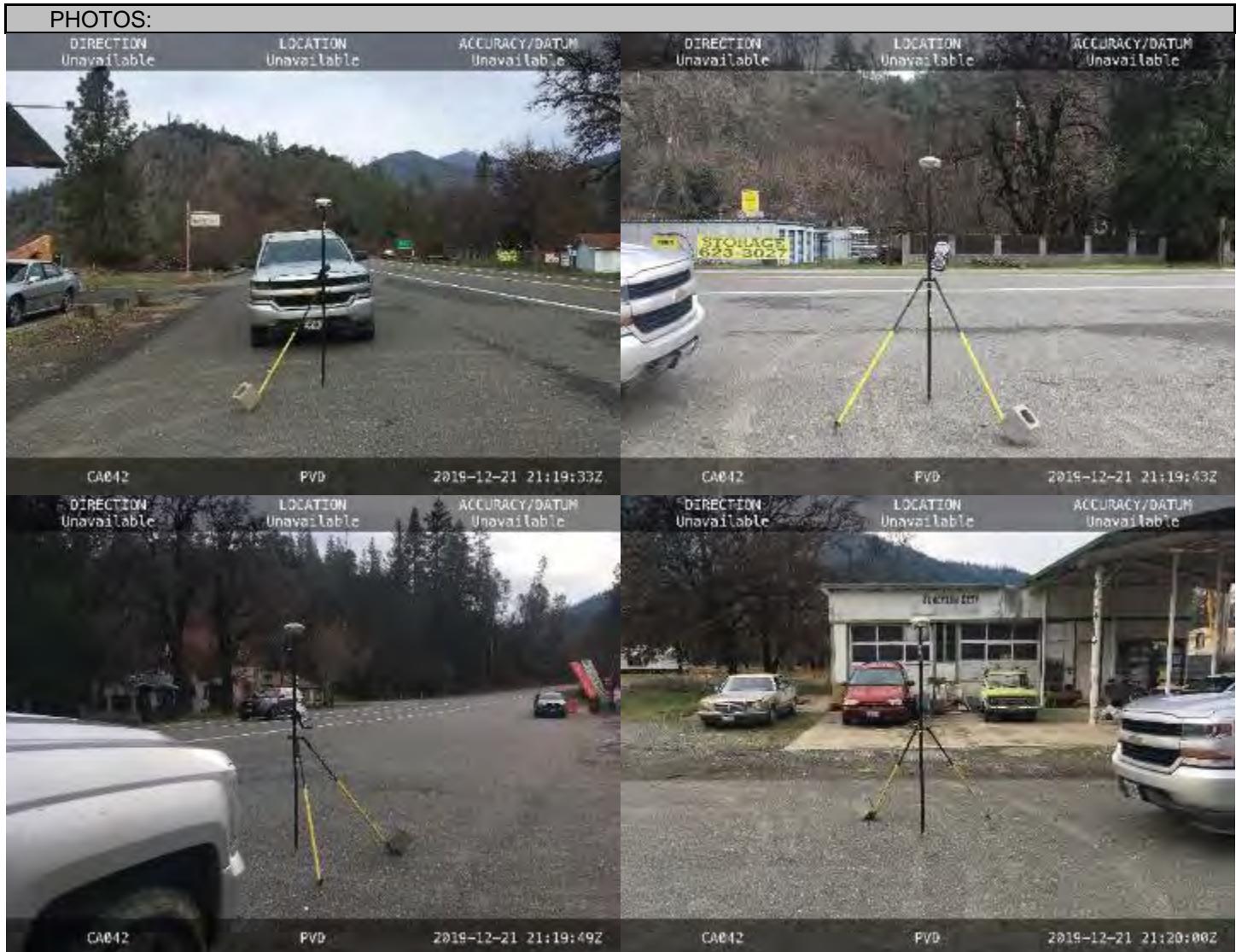
	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4508870.078	495381.599	445.795

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/21/2019
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	FS





Point ID	CA043
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	BIG BAR

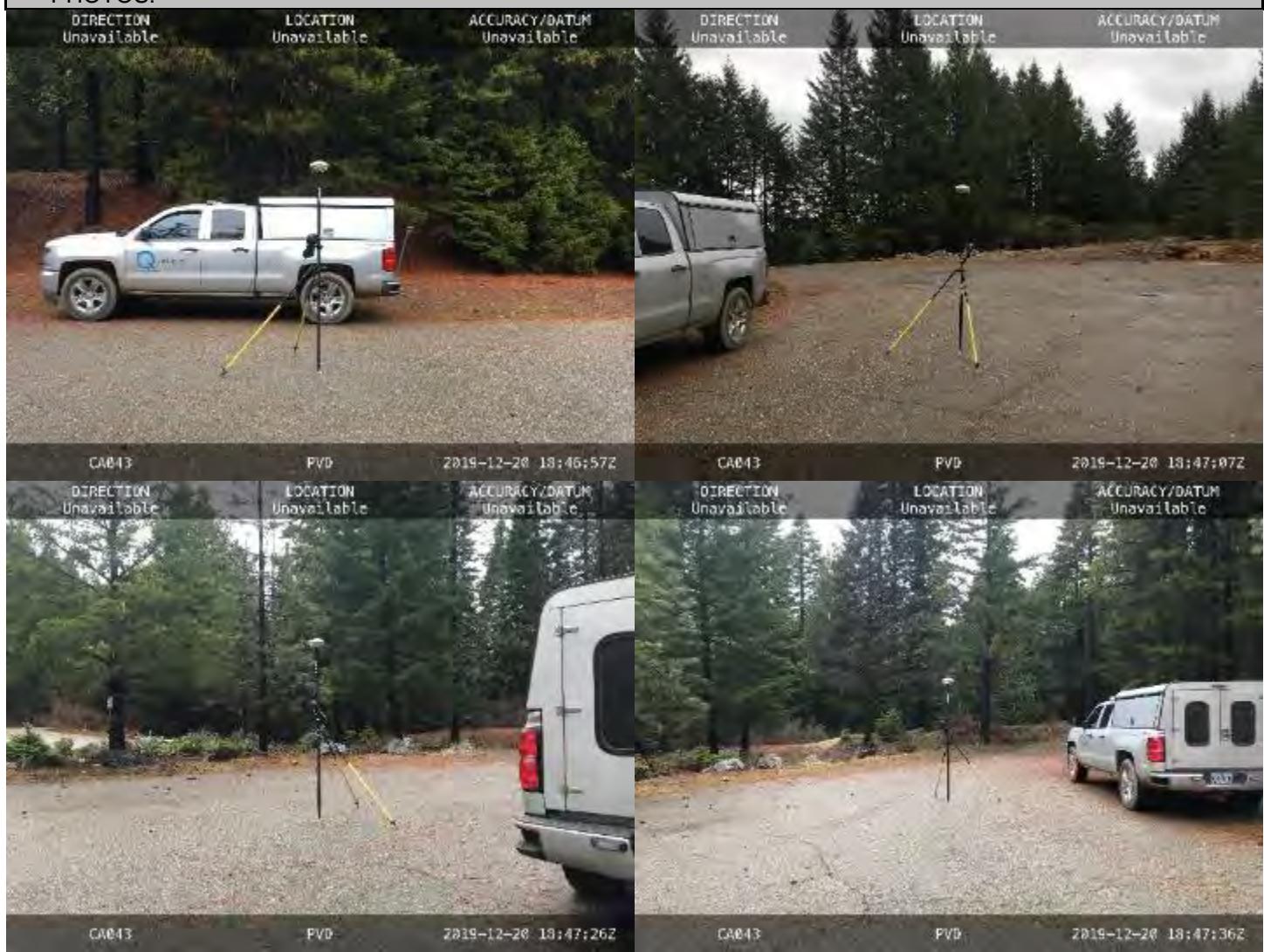
	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4506850.890	475828.072	1068.785

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/20/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	FS

PHOTOS:



Point ID	CA044
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Weaverville

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4500100.965	504819.822	506.770

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	CA045
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Lewiston

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4502436.495	511572.093	679.863

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	CA046
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	French Gulch

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4507783.620	527798.092	582.003

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	RTK

PHOTOS:



Point ID	CA047
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	French Gulch

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4510670.949	531631.393	454.937

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.003
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	CA048
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Schell Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4515357.496	540102.888	981.420

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.003
RMSE Z	0.006
GPS Method	RTK

PHOTOS:



Point ID	CA049
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	O'Brien

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4516076.839	557540.210	357.473

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA050
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Devils Rock

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4519417.080	583411.458	509.210

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA051
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Montgomery Creek

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4518021.292	589409.932	652.204

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/28/2019
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	RTK

PHOTOS





Point ID	CA052
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Devils Rock

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4511640.656	580580.712	376.568

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:





Point ID	CA053
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Oak Run

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4502048.786	579195.028	311.155

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/06/2020
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA054
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	City of Shasta Lake

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4503577.090	554888.638	235.676

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/28/2019
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS





Point ID	CA055
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shasta Dam

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4501087.732	545093.177	314.202

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	RTK

PHOTOS





Point ID	CA056
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Whiskeytown

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4499871.696	537399.520	372.275

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.007
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	CA057
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	French Gulch

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4498372.032	522591.205	980.782

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA058
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Bully Choop Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4494427.248	512531.265	684.941

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	CA059
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Hayfork Summit

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4493851.451	499194.481	1112.723

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA060
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Wildwood

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

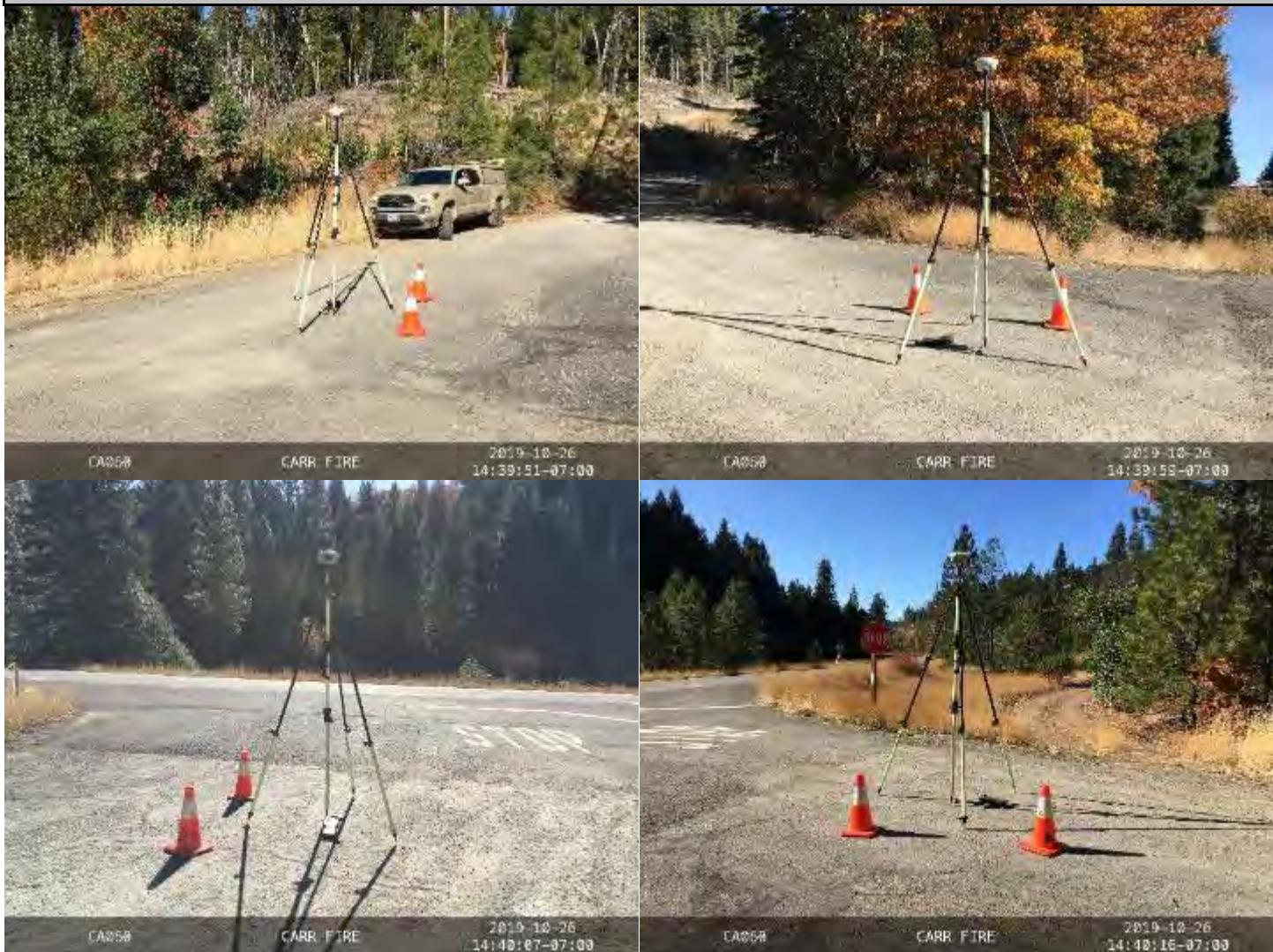
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4470294.032	498462.101	1153.086

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK

PHOTOS:





Point ID	CA060a
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Chanelulla Peak

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

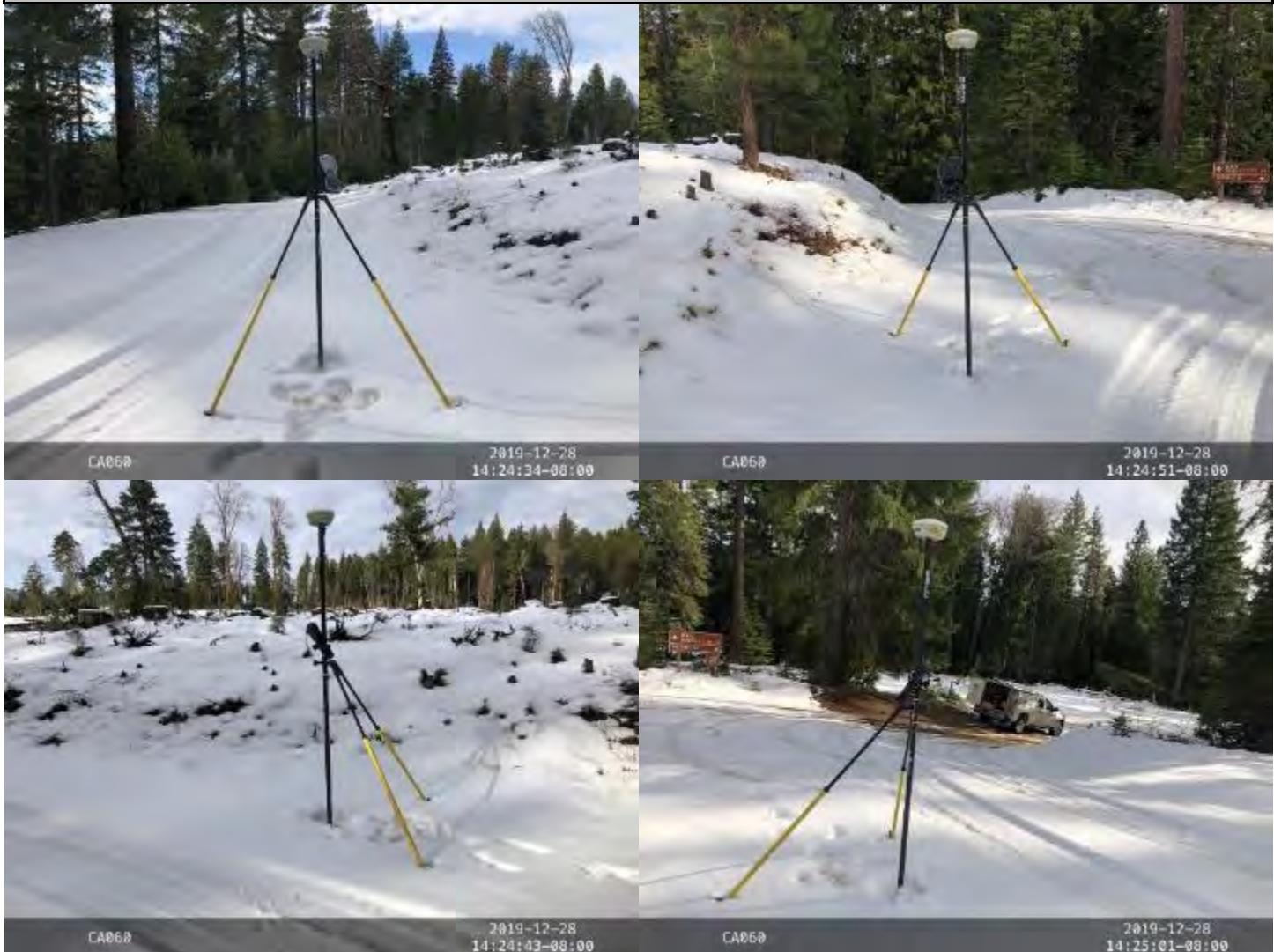
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4474438.166	503019.469	1273.521

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.005
RMSE Z	0.004
GPS Method	RTK

PHOTOS:





Point ID	CA061
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Platina

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

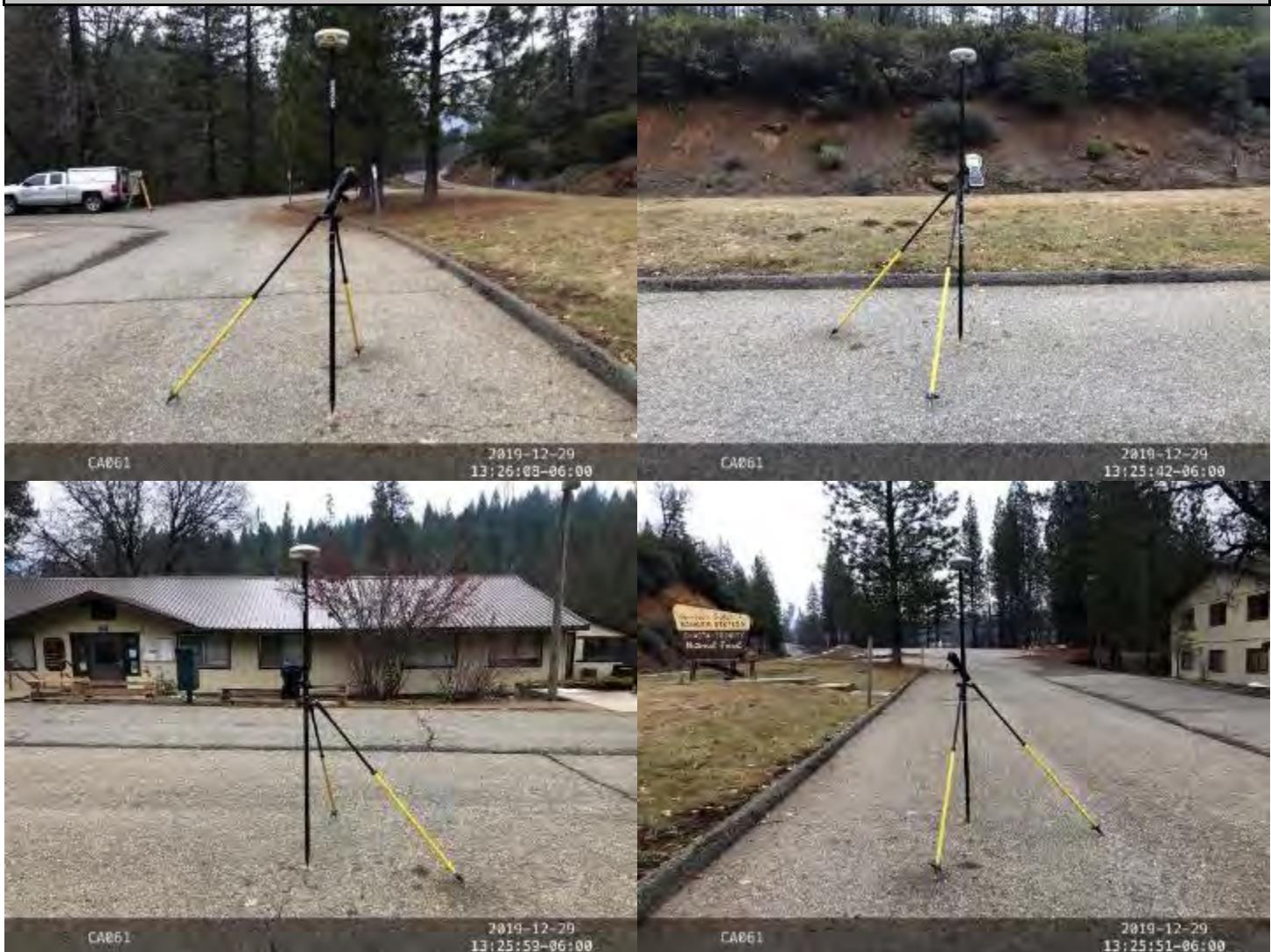
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4468122.095	502917.920	814.439

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	RTK

PHOTOS:





Point ID	CA062
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Arbuckle Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4474425.747	519792.381	439.826

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA063
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4482906.303	526224.647	735.464

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/03/2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS





Point ID	CA063a
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Igo

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4488108.079	539978.456	314.456

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/30/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA064
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Igo

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4485105.754	541032.901	293.844

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/27/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS





Point ID	CA065
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Redding

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4490640.642	550460.545	212.616

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.006
RMSE Z	0.005
GPS Method	RTK

PHOTOS





Point ID	CA066
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Enterprise

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4493681.617	560960.955	175.022

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/27/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	CA067
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Palo Cedro

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4495957.972	571977.844	185.470

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA068
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Clough Gulch

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4495764.013	580356.718	341.382

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/02/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	CA069
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Whitmore

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4505374.287	590940.889	894.259

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA070
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Miller Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4498869.967	597144.578	861.081

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA071
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Miller Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4500946.363	600742.191	1132.732

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.019
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	CA072
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Whitmore

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4498145.088	591833.808	680.944

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.016
RMSE Z	0.016
GPS Method	RTK

PHOTOS:





Point ID	CA073
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Whitmore

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4497693.966	585186.934	423.444

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA074
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Clough Gulch

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4486538.363	575780.811	269.870

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA075
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Palo Cedro

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4484298.062	564522.674	129.737

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/27/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	CA076
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Cottonwood

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4481311.015	555355.315	140.980

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA077
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4476226.156	540277.200	264.211

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/03/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	CA077a
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4475754.772	540607.024	255.459

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/30/2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA078
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Olinda

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4480546.813	546365.115	250.724

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA079
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Balls Ferry

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4472855.701	564122.018	137.552

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/27/2019
RMSE Hz	0.008
RMSE Z	0.007
GPS Method	RTK

PHOTOS





Point ID	CA080
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Balls Ferry

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4472655.624	572874.167	144.993

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/02/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS





Point ID	CA081
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Manton

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4475071.927	600853.278	957.044

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/02/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	CA082
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Viola

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4486055.379	611726.745	1339.507

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.018
RMSE Z	0.018
GPS Method	RTK

PHOTOS:





Point ID	CA083
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Manzanita Lake

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4489150.424	620506.939	1757.416

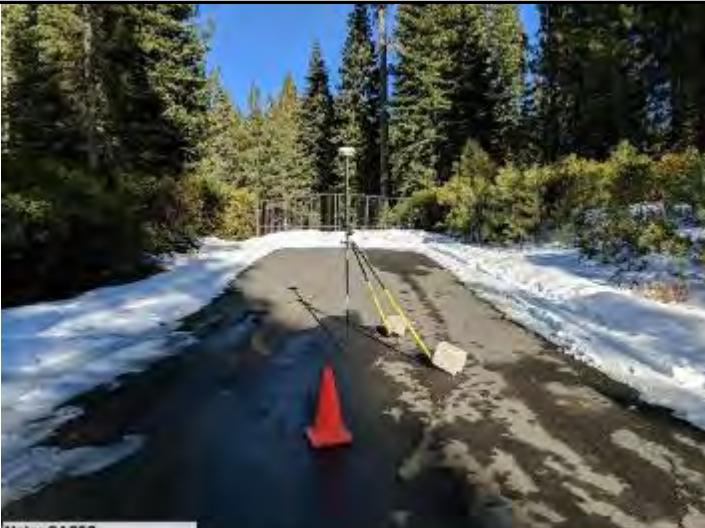
Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.010
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Note: CA083



Note: CA083



Note: CA083



Note: CA083



Point ID	CA084
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Mineral

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

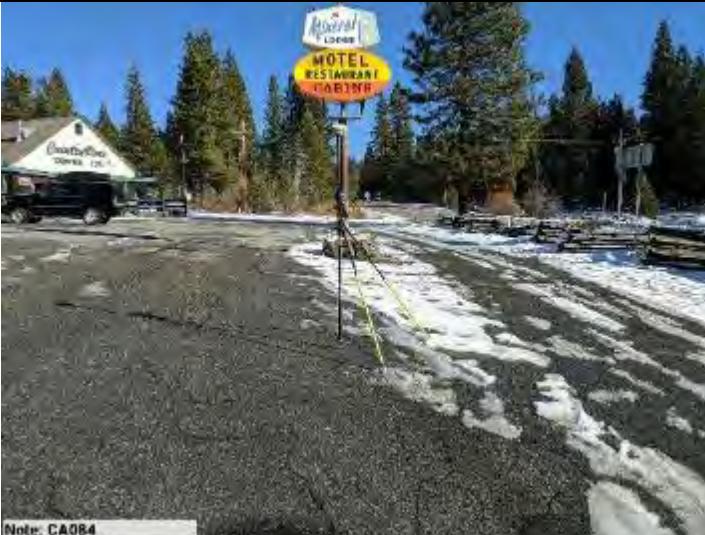
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4467296.570	619170.141	1496.780

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/27/2019
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK

PHOTOS:





Point ID	CA085
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Finley Butte

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4467468.789	603655.965	1010.787

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/27/2019
RMSE Hz	0.014
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA086
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Inskip Hill

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4465235.556	592363.702	565.924

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/27/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA087
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Hagaman Gulch

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4485916.624	601270.902	1198.197

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/02/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS





Point ID	CA088
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Dales

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4459104.889	574650.926	269.370

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	RTK

PHOTOS





Point ID	CA089
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Dales

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4463261.586	582032.844	265.959

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS





Point ID	CA090
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Tangle Blue Lake

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

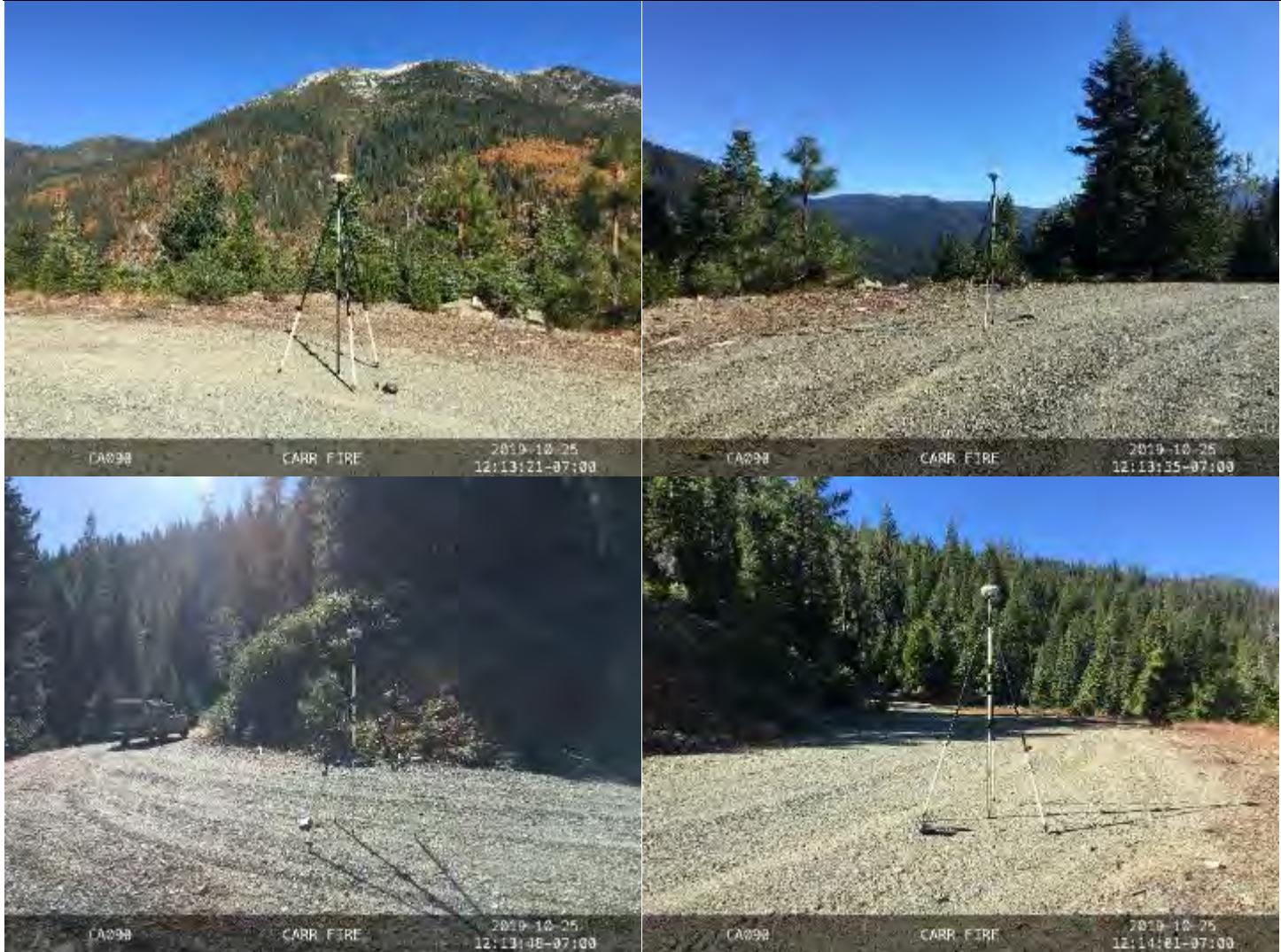
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4557100.720	523461.013	1350.838

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA091
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	O'Brien

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4523963.523	562826.177	340.308

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/31//2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA092
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Beegum

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4463146.728	516756.876	509.156

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.003
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	CA093
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	HAYFORK BALLY

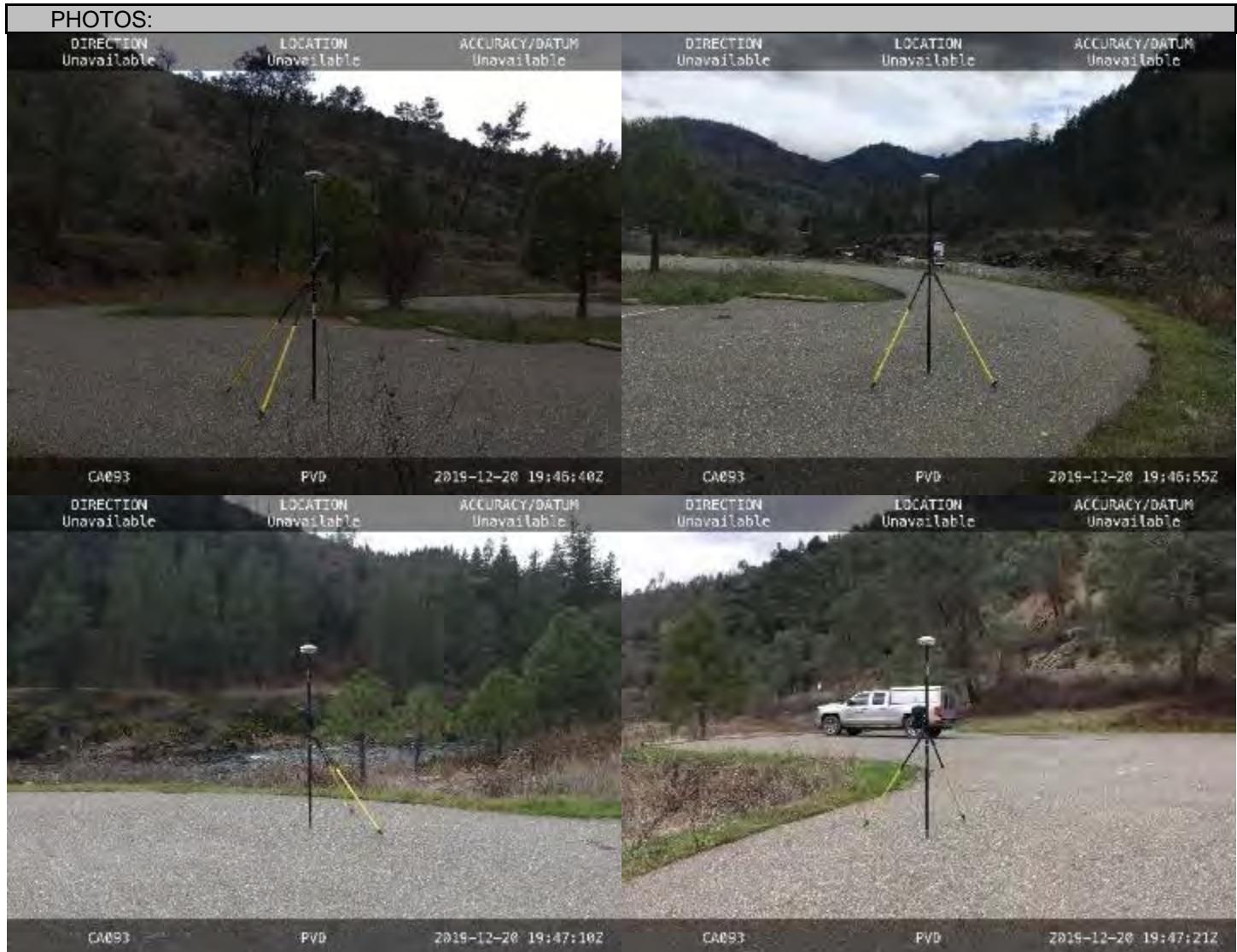
	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4510015.225	481624.760	377.024

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/20/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	FS





Point ID	CA094
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Lyonsville

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

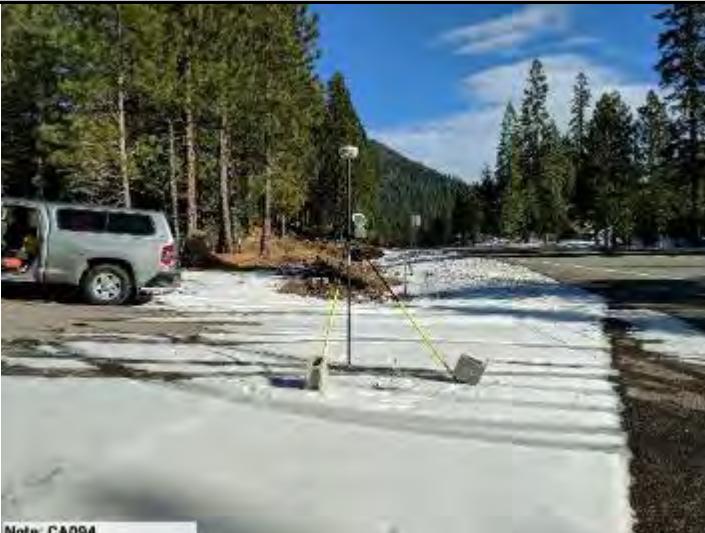
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4467214.056	615441.216	1479.017

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	CA095
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4473244.343	540585.545	199.939

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/03/2019
RMSE Hz	0.012
RMSE Z	0.011
GPS Method	RTK

PHOTOS





Point ID	CA095a
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4472132.798	541009.180	184.791

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



Point ID	CA096
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Weed

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4581445.919	550397.659	1173.509

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



aPoint ID	CA096a
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	IRONSIDE MOUNTAIN

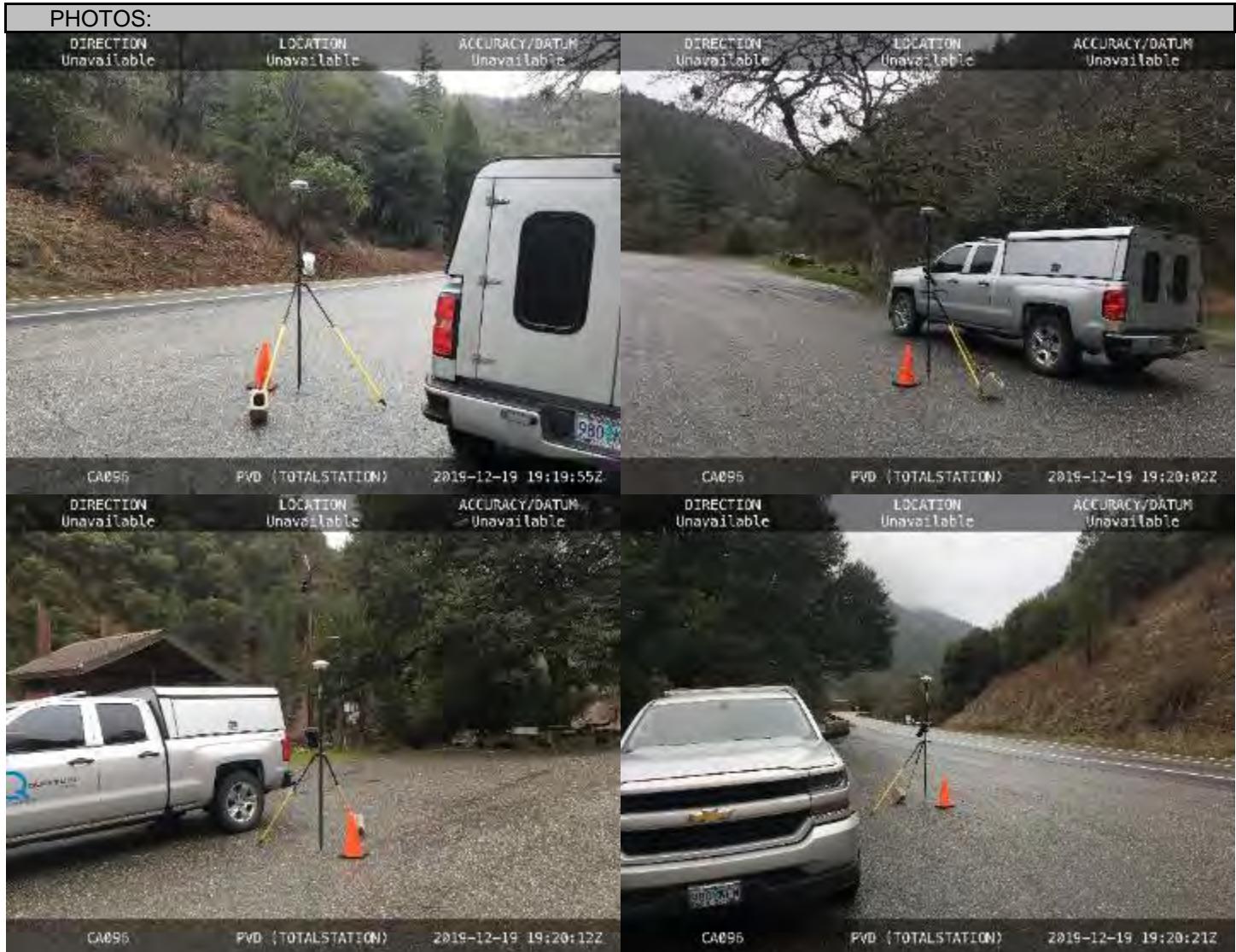
	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4515563.205	462968.494	299.954

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/19/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	FS





Point ID	CA097
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	McCloud

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

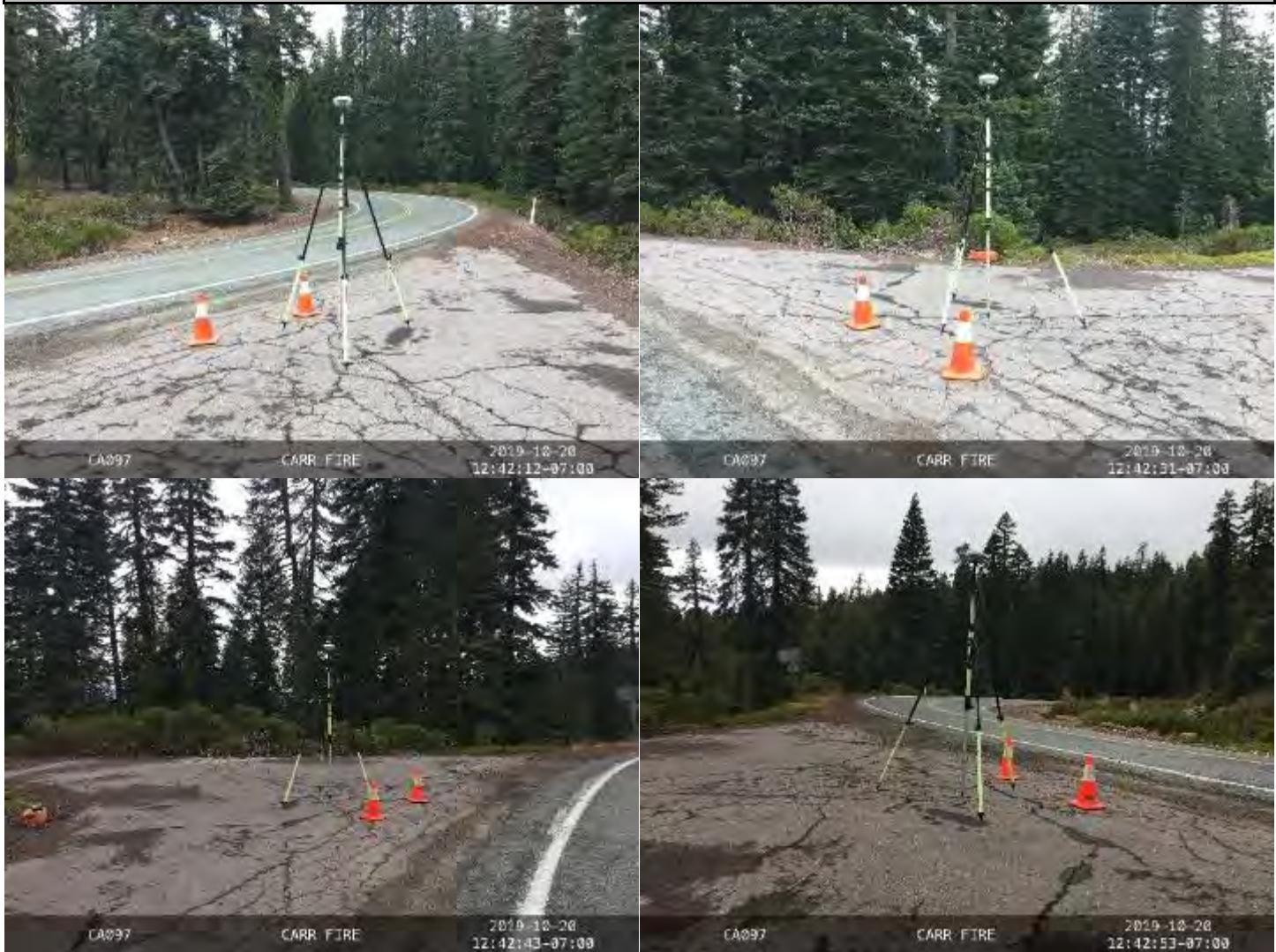
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4576915.805	562948.014	1930.239

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:





Point ID	CA097a
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	HELENA

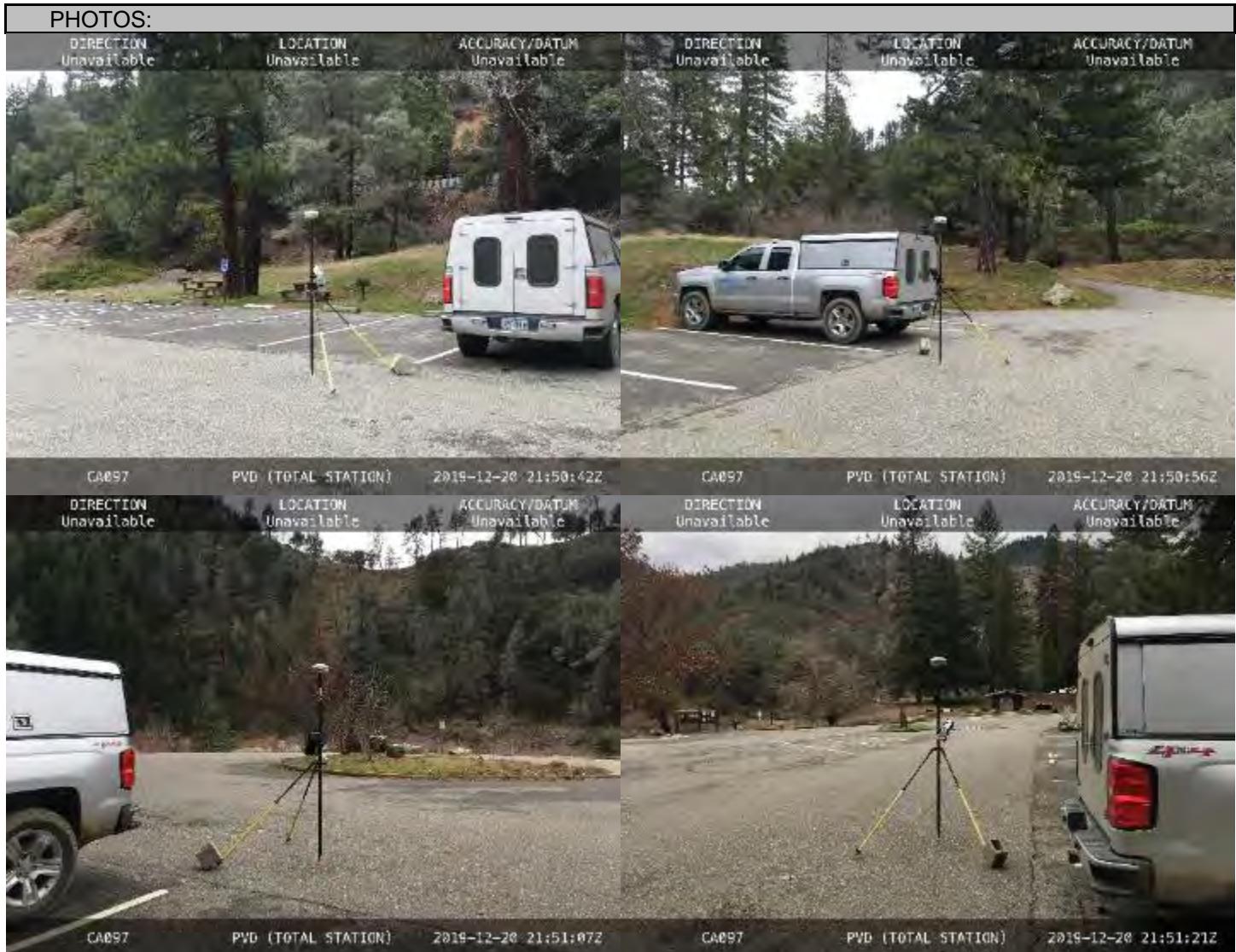
X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4512968.137	488819.558	418.943

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/20/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	FS





Point ID	CA098
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	South China Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4579495.112	537998.074	1941.791

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/22/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



CA098 CARR FIRE 2019-10-22
13:40:51-07:00



CA098 CARR FIRE 2019-10-22
13:41:16-07:00



CA098 CARR FIRE 2019-10-22
13:41:05-07:00



CA098 CARR FIRE 2019-10-22
13:40:59-07:00



Point ID	CA099
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Deadman Peak

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

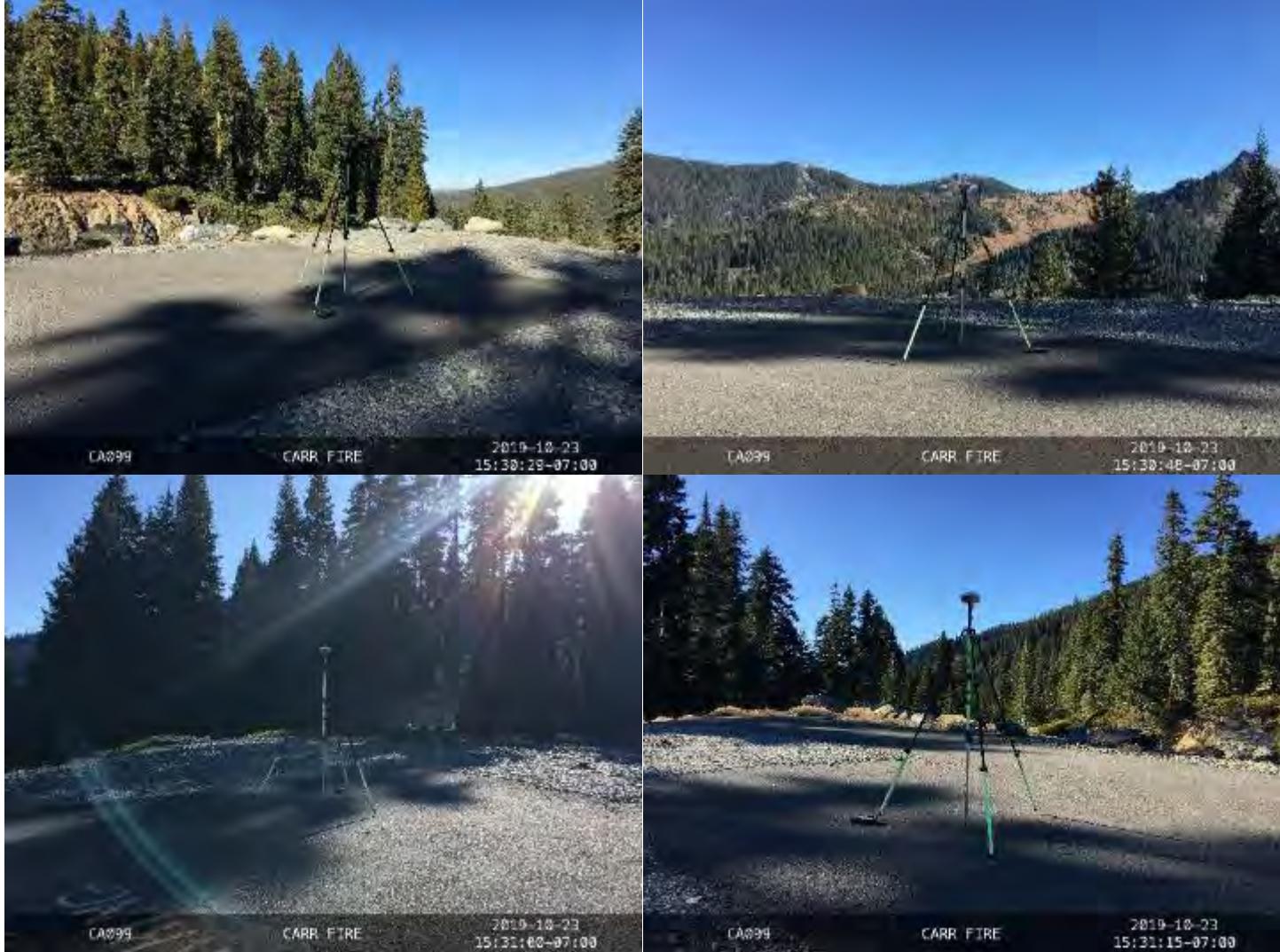
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4563187.016	508532.106	1886.735

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/23/2019
RMSE Hz	0.009
RMSE Z	0.022
GPS Method	Fast Static

PHOTOS:





Point ID	CA099a
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Tombstone Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4546726.191	553890.987	541.715

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/06/2020
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA100
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Carville

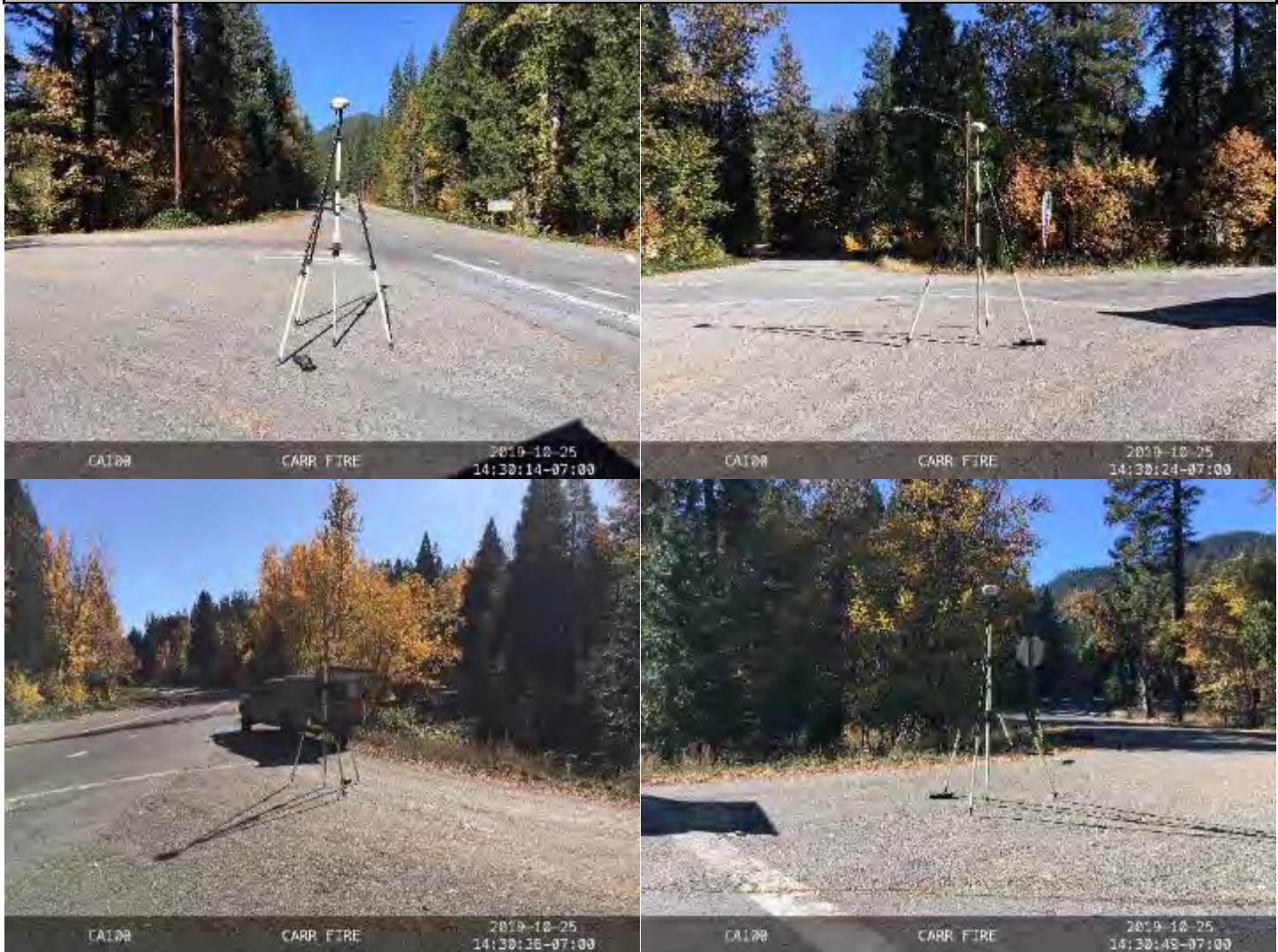
	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4548366.349	524597.729	760.074

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Point ID	CA201
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Minnesota Mountain

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4511963.154	564113.251	316.890

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	CA202
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Lamoine

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

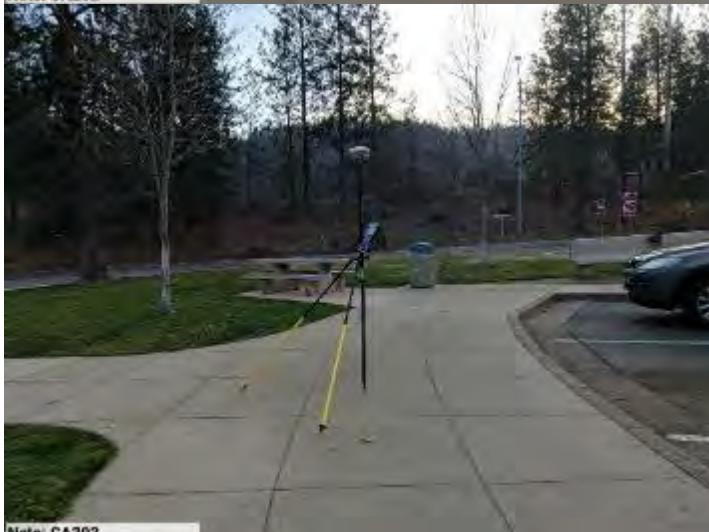
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4529739.209	550676.830	381.627

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA203
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	O'Brien

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4521968.881	554627.026	332.043

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA204
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Goose Gap

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4529580.478	574952.146	425.388

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/31//2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	Fast Static

PHOTOS:





Point ID	CA205
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Mineral

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

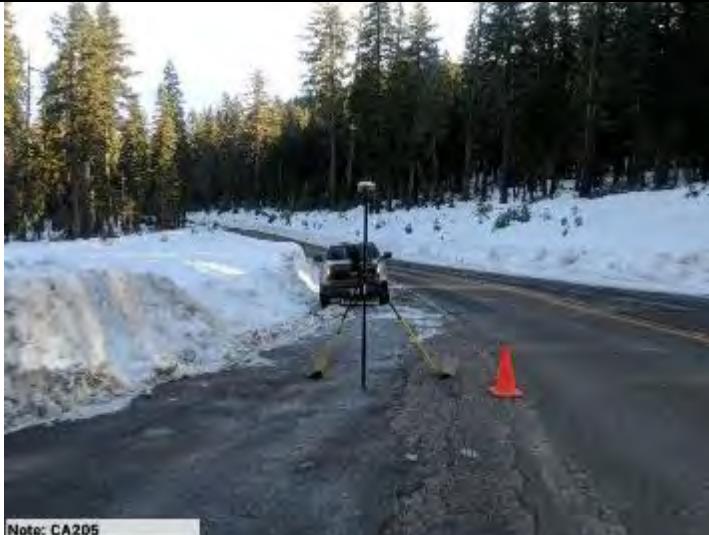
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4469464.389	624324.873	1744.426

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	RTK

PHOTOS:





Point ID	CA206
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Dunsmuir

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4555379.954	557293.480	620.180

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	CA207
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Lamoine

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4538297.093	548824.214	454.487

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Note: CA207



Note: CA207



Note: CA207



Note: CA207



Point ID	CA208
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	O'Brien

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4511539.698	557127.852	329.264

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA209
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Bohemotash Mountain

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4521943.121	550244.076	323.597

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA210
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	City of Mount Shasta

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4570897.192	558847.370	1088.014

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.014
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



Note: CA210



Note: CA210



Note: CA210



Note: CA210



Point ID	CA211
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Tombstone Mountain

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4496081.095	540557.755	419.092

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/06/2020
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA400
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Cottonwood

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4480691.673	554555.911	199.872

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/31/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA401
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shasta Dam

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4505908.136	548592.727	425.999

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/31/2019
RMSE Hz	0.012
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Point ID	CA402
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shasta Dam

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4503447.270	550429.761	251.078

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/31/2019
RMSE Hz	0.010
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA403
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4516216.892	518091.760	937.351

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.003
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	CA404
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Carville

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4544744.836	525312.944	729.333

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	RTK

PHOTOS:



Point ID	CA405
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Center

Aerial Target
X LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4532670.991	521300.384	898.496

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	RTK

PHOTOS:



Point ID	CA406
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Covington Mill

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4528762.026	518886.217	856.074

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.027
RMSE Z	0.024
GPS Method	RTK

PHOTOS:





Point ID	CA407
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Mount Eddy

X	Aerial Target
	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4569202.079	549852.836	1168.567

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/06/2020
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





BARE EARTH POINT LOG SHEETS



Point ID	BE001
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	City of Mount Shasta

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4569836.621	556158.165	979.977

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.012
RMSE Z	0.016
GPS Method	RTK

PHOTOS:





Point ID	BE002
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4517642.076	511325.182	1007.599

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	BE003
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	South China Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4568607.196	532758.548	1149.851

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/23/2019
RMSE Hz	0.013
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



BE003 CARR FIRE 2019-10-23
10:24:22-07:00



BE003 CARR FIRE 2019-10-23
10:24:32-07:00



BE003 CARR FIRE 2019-10-23
10:24:43-07:00



BE003 CARR FIRE 2019-10-23
10:24:55-07:00



Point ID	BE004
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	South China Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

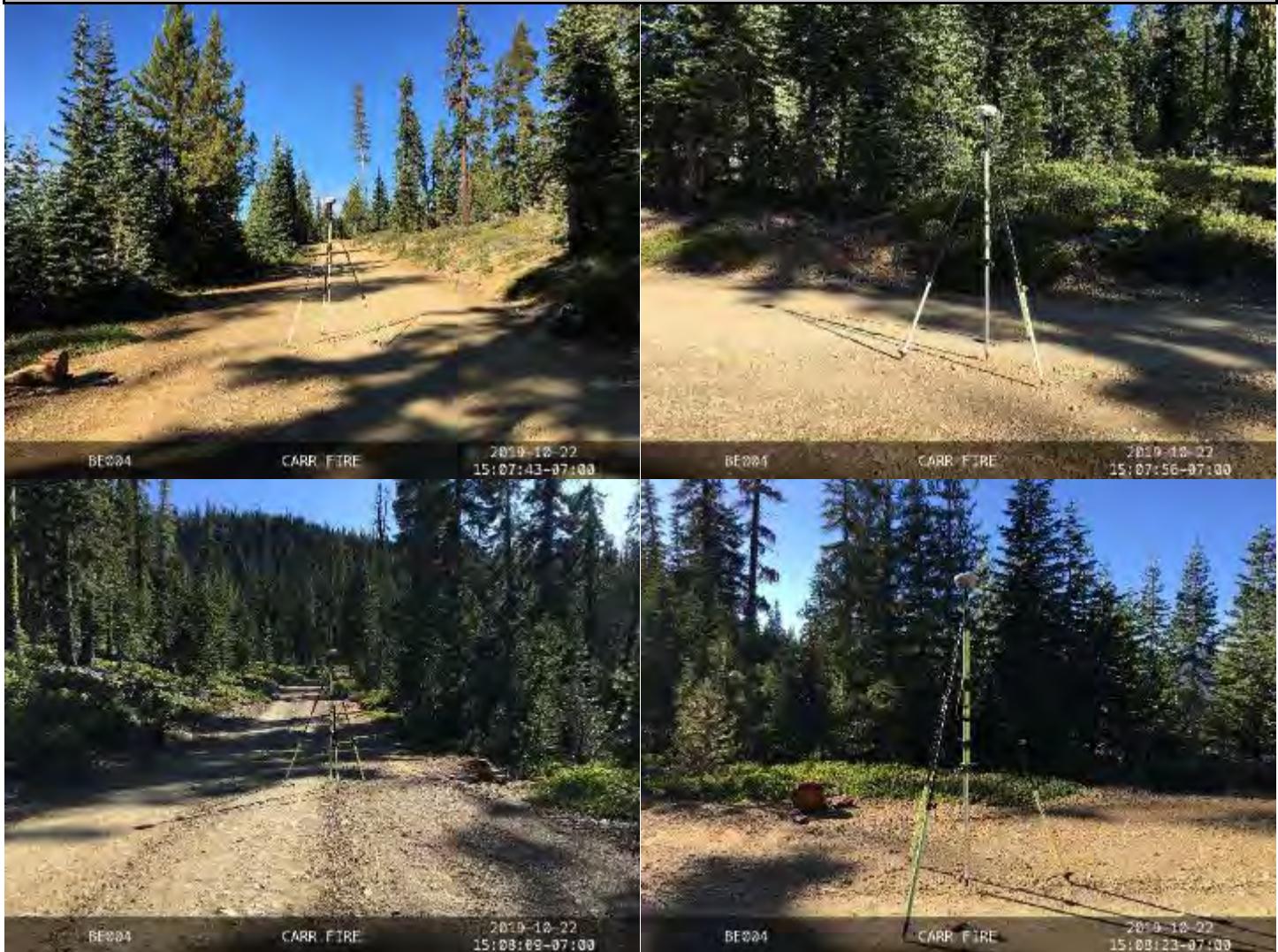
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4570859.992	538827.154	1933.814

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/22/2019
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	BE005
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Mount Eddy

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4572249.544	550573.406	1332.960

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/21/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE006
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	McCloud

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4568871.576	568764.777	1188.730

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	BE007
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Seven Lakes Basin

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4564537.705	551833.115	1658.889

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/06/2020
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	BE008
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Mumbo Basin

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

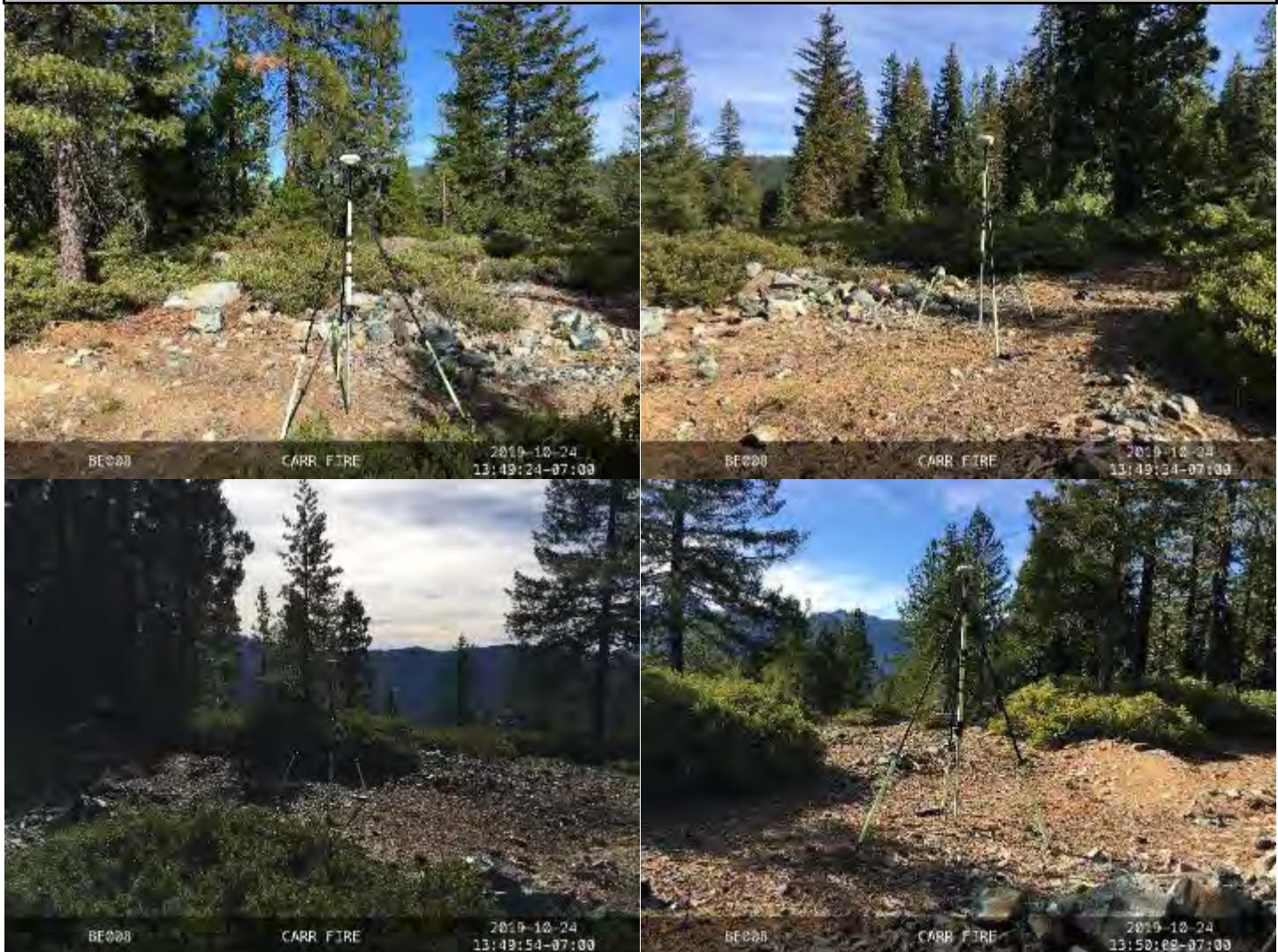
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4558551.421	531845.846	1633.966

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE009
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Tangle Blue Lake

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4564778.808	529716.793	997.783

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/23/2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	BE010
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Tangle Blue Lake

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4554729.547	526658.132	828.017

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	Fast Static

PHOTOS:



Point ID	BE011
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Ycatapom Peak

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4552329.190	515385.362	1014.745

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	Fast Static

PHOTOS:





Point ID	BE012
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Girard Ridge

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4558393.773	572592.742	849.916

Operator	Emily Gottesfeld
Receiver Model	Trimble R8-3
Receiver S/N	R8_9860
Antenna Height	2.000m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	BE013
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Girard Ridge

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4555021.495	569610.872	801.049

Operator	Emily Gottesfeld
Receiver Model	Trimble R8-3
Receiver S/N	R8_9860
Antenna Height	2.000m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	FastStatic

PHOTOS:





Point ID	BE014
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Tombstone Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4550870.357	556129.859	569.890

Operator	Emily Gottesfeld
Receiver Model	Trimble R8-3
Receiver S/N	R8_9860
Antenna Height	2.000m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE015
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4522251.858	511637.077	739.399

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.004
RMSE Z	0.004
GPS Method	RTK

PHOTOS:





Point ID	BE016
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Whisky Bill Peak

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4542239.914	533888.394	883.535

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	BE017
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4523056.461	509125.924	758.669

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.003
RMSE Z	0.006
GPS Method	RTK

PHOTOS:



Point ID	BE018
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEL LOMA

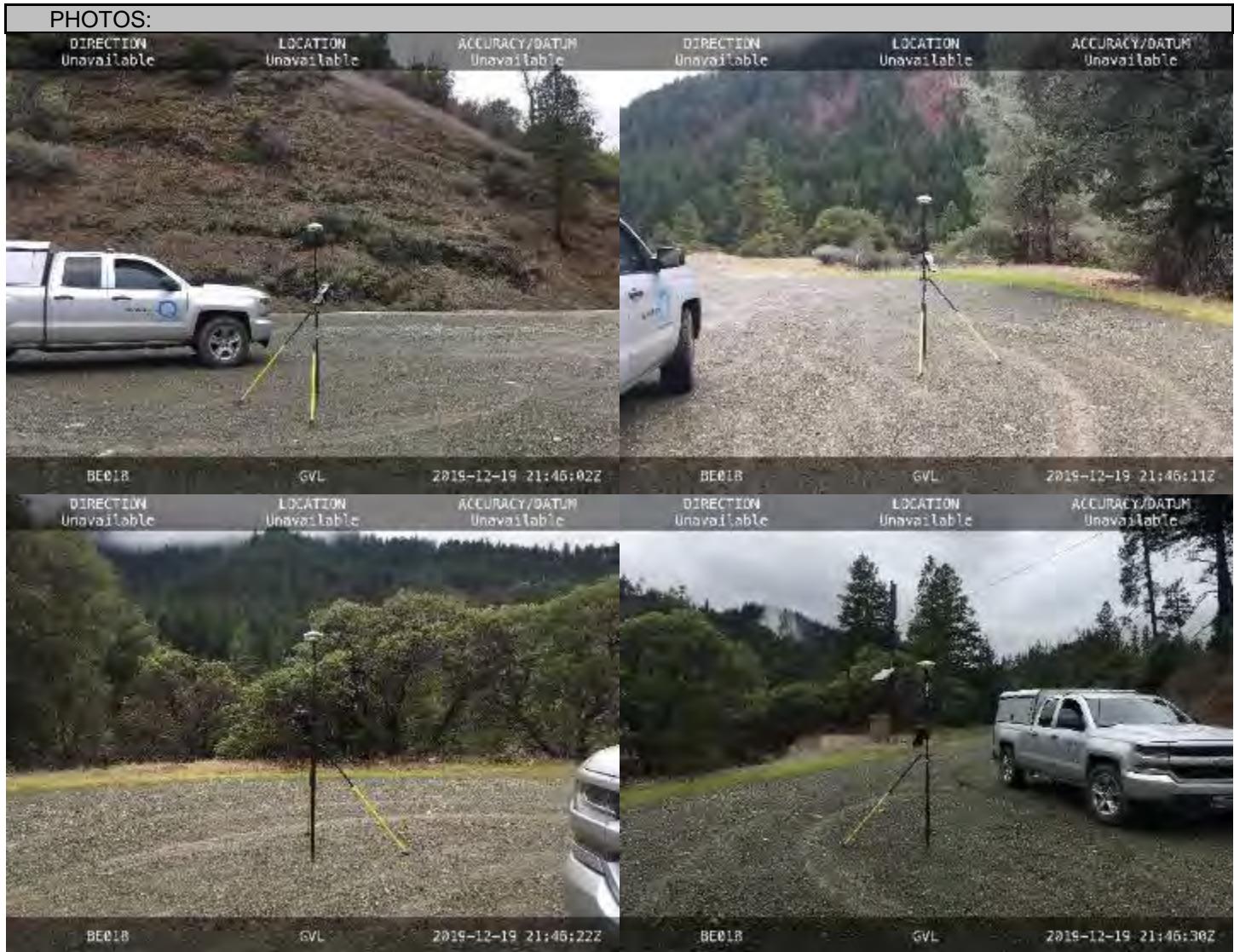
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4513701.094	472078.140	354.741

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/19/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	FS





Point ID	BE019
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	HENNESSY PEAK

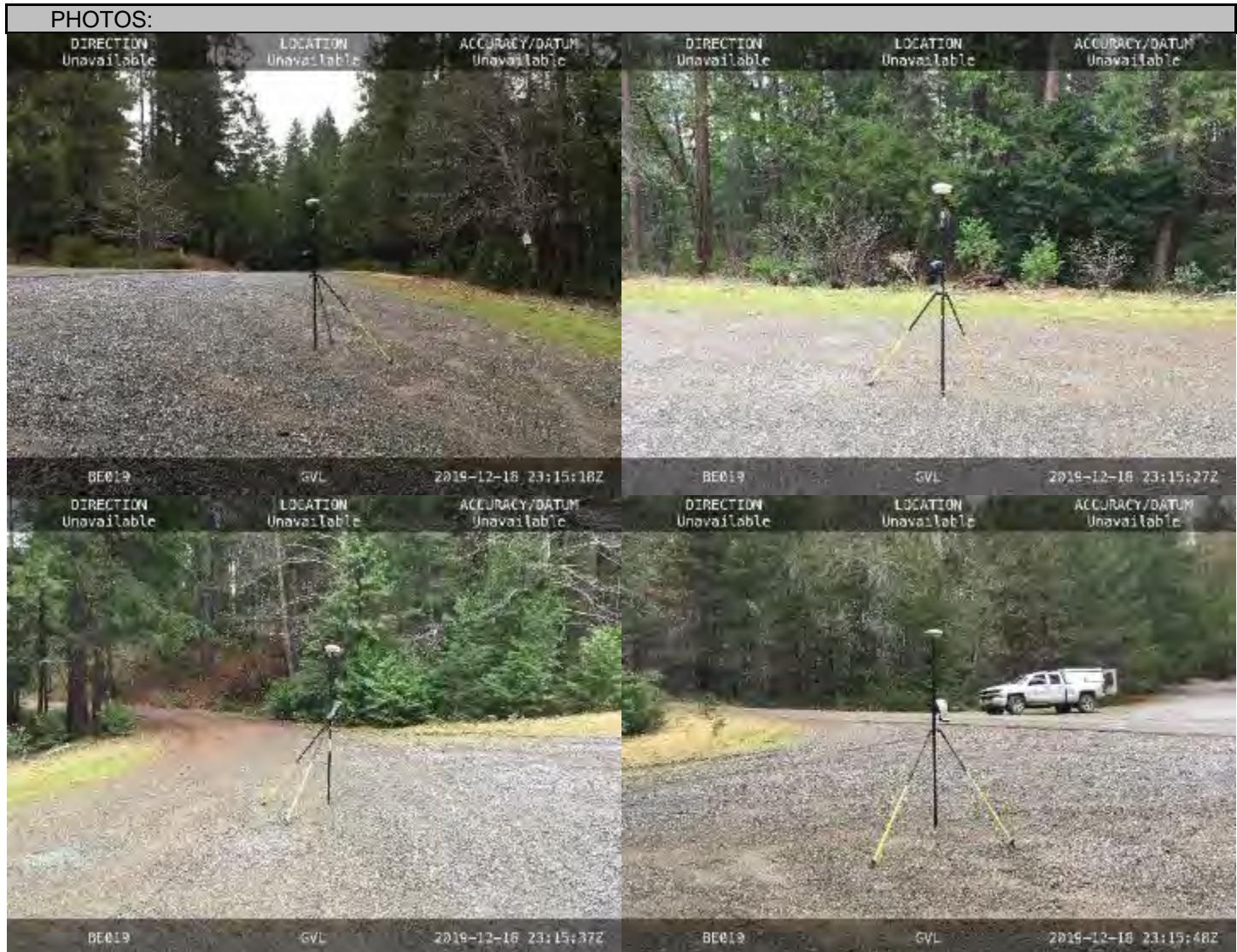
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4515785.892	457538.497	875.185

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/18/2019
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	FS





Point ID	BE020
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	BIG BAR

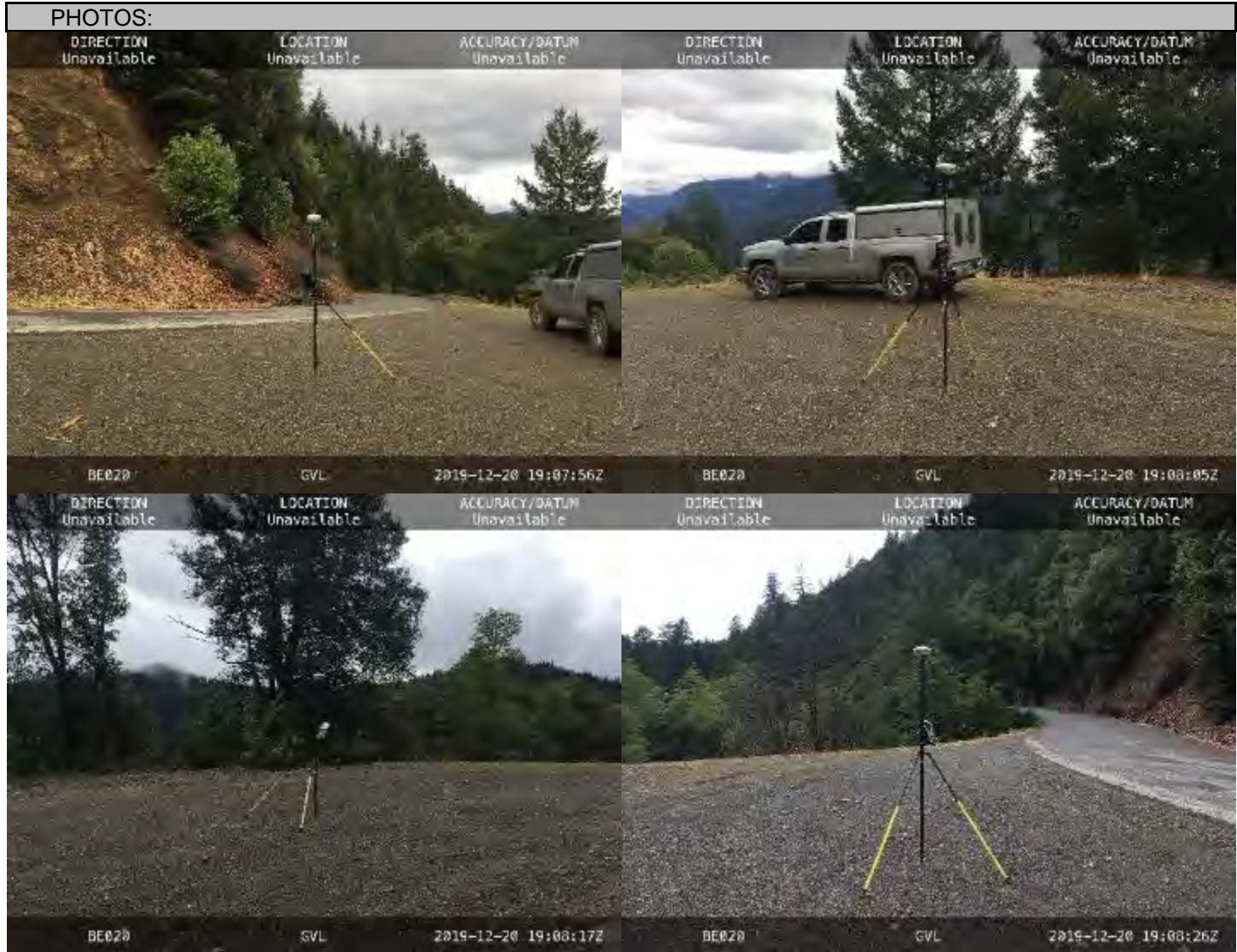
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4507457.316	476566.273	980.796

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/20/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	FS





Point ID	BE021
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEDRICK

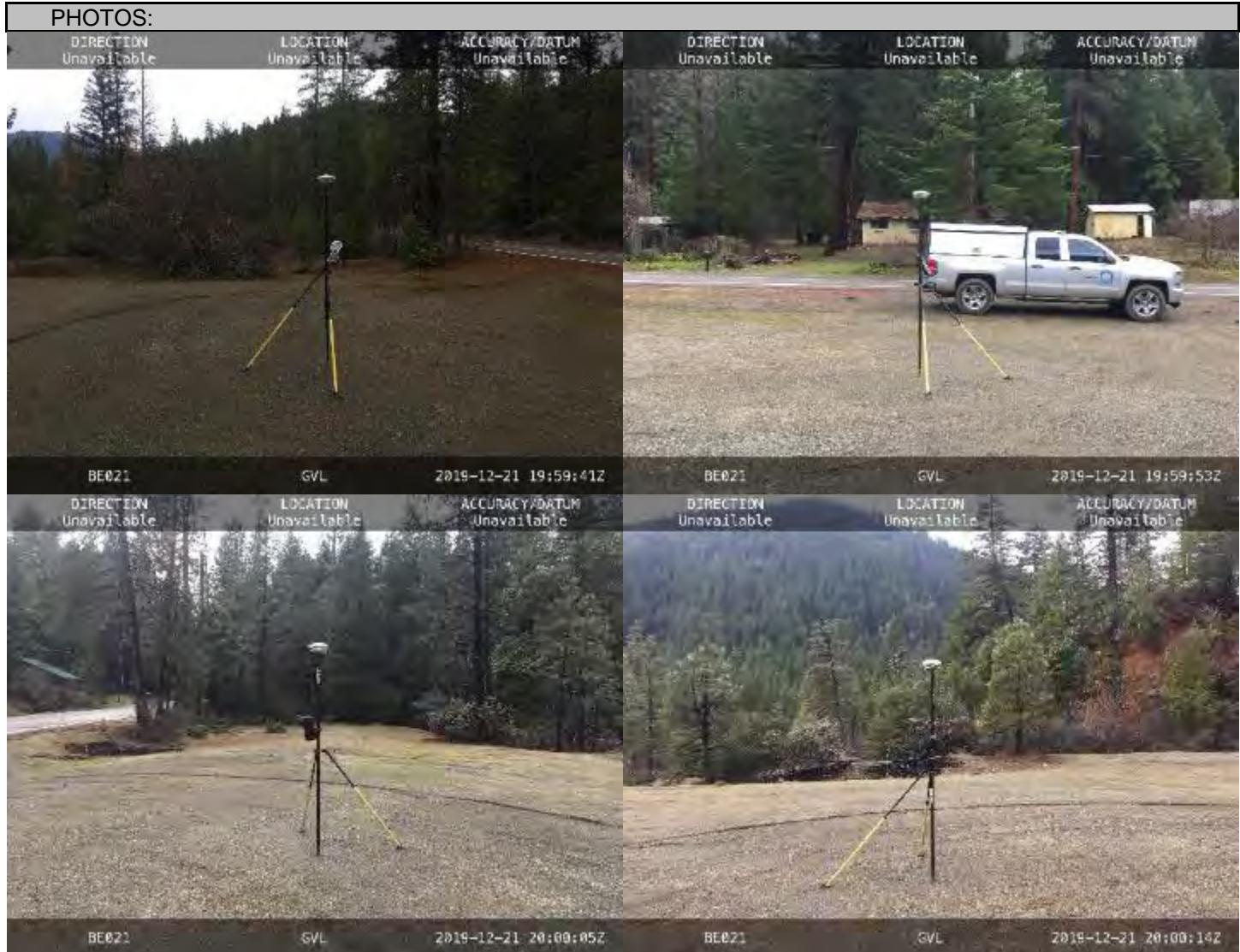
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4517794.664	495079.931	620.458

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/21/2019
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	FS





Point ID	BE022
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	WEAVERVILLE

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4509820.629	506127.081	657.423

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/21/2019
RMSE Hz	0.002
RMSE Z	0.002
GPS Method	FS

PHOTOS:





Point ID	BE023
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4516199.789	518074.795	937.369

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	BE024
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Papoose Creek

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4519575.654	528344.642	1181.278

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	BE025
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Center

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

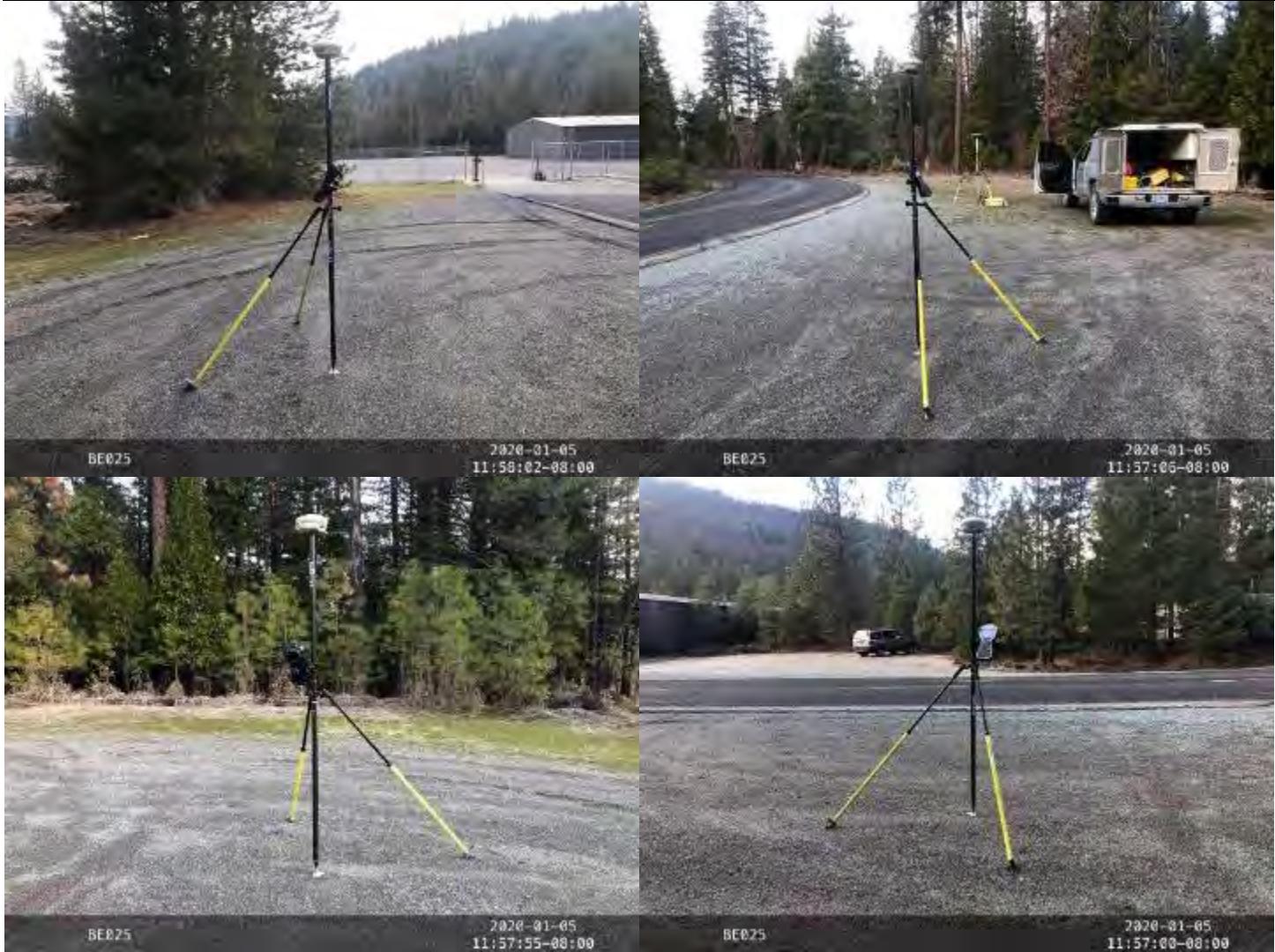
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4536494.595	525657.508	729.730

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	BE026
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Bolibokka Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4531996.631	563425.376	322.924

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/31//2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	Fast Static

PHOTOS:





Point ID	BE027
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Lamoine

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4526214.768	551976.546	332.713

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	BE028
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shoeinhorse Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4543307.530	581639.184	971.054

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.002
RMSE Z	0.002
GPS Method	Fast Static

PHOTOS:





Point ID	BE029
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Devils Rock

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4519408.550	583429.496	510.697

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE030
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	O'Brien

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4523828.426	562885.228	321.001

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/31//2019
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE031
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Schell Mountain

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4515351.081	540106.559	981.256

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.010
RMSE Z	0.020
GPS Method	RTK

PHOTOS:





Point ID	BE032
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	French Gulch

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4503209.322	530491.912	398.902

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE033
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Lewiston

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4503972.216	515882.986	753.013

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.013
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Point ID	BE034
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Lewiston

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4502447.418	511598.921	678.118

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	BE035
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Bully Choop Mountain

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4494402.599	512532.960	685.617

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	RTK

PHOTOS:



Point ID	BE036
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Whiskeytown

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4499777.301	537395.748	372.549

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	BE037
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shasta Dam

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4501063.072	545058.635	313.323

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	BE038
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Whitmore

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4498142.069	591819.417	680.957

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.019
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	BE039
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Whitmore

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4505372.630	590961.132	894.740

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE040
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Clough Gulch

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4495762.078	580356.715	341.305

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/02/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS





Point ID	BE041
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Enterprise

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4493683.526	560966.931	174.927

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/27/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS





Point ID	BE042
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4482908.583	526223.247	735.396

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/03/2019
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS





Point ID	BE043
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Tar Bully

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4476559.908	528722.410	293.605

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/30/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	BE044
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Arbuckle Mountain

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4474452.924	519802.625	442.629

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	BE045
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Wildwood

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

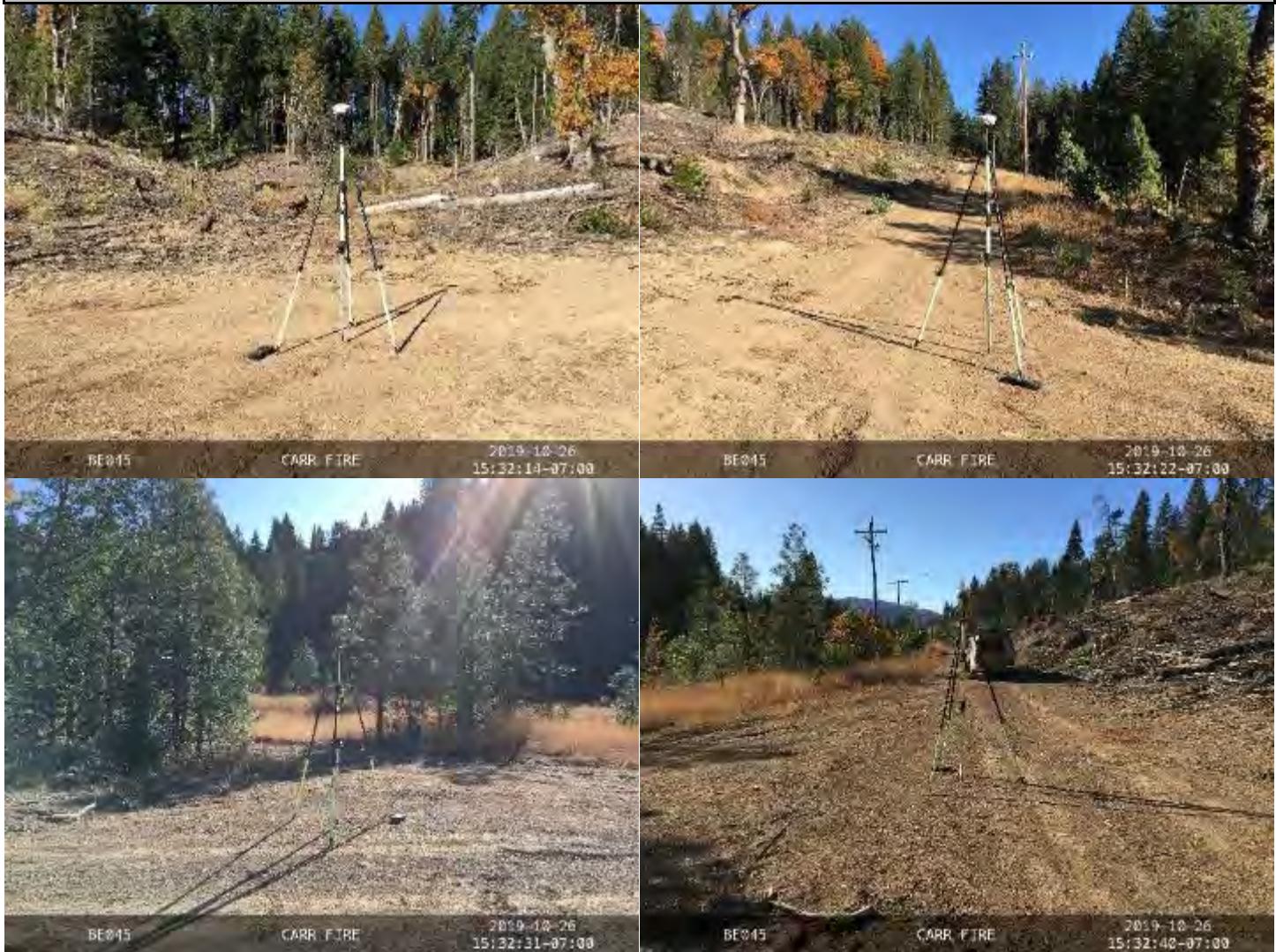
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4470329.450	498436.341	1153.559

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	BE046
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4474109.246	540443.020	238.855

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/03/2019
RMSE Hz	0.014
RMSE Z	0.013
GPS Method	RTK

PHOTOS





Point ID	BE047
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4479056.296	539340.885	317.481

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/03/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS





Point ID	BE048
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Balls Ferry

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

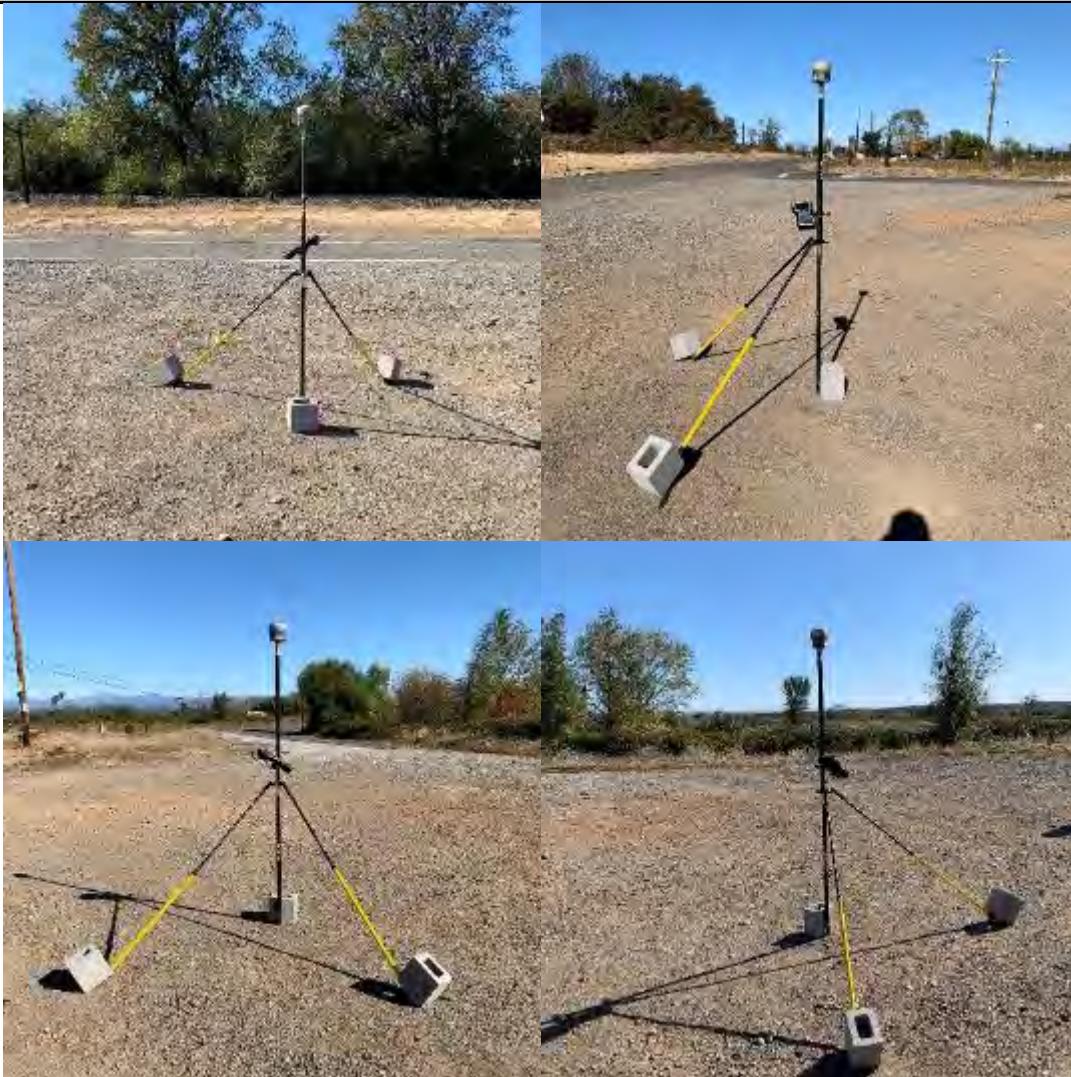
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4472845.414	564120.578	137.485

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/27/2019
RMSE Hz	0.008
RMSE Z	0.007
GPS Method	RTK

PHOTOS





Point ID	BE049
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Balls Ferry

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4472648.644	572873.580	144.709

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/02/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	BE050
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Clough Gulch

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4486503.457	575898.229	272.376

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	BE051
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Clough Gulch

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4484491.580	584556.768	531.941

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	BE052
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Whitmore

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4498149.311	585203.173	448.258

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.014
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE053
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Miller Mountain

	Aerial Target
	LiDAR Ground Control
X	UTM Zone 10
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4499442.246	599411.546	1055.134

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE054
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehema
Quad	Manton

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4475069.585	600847.763	956.729

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/02/2019
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS





Point ID	BE055
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Grays Peak

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4482366.200	607143.394	1240.598

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE056
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Dales

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4463271.936	582021.867	265.218

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS





Point ID	BE057
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Dales

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4459127.056	574626.994	268.226

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS





Point ID	BE058
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Weed

	Aerial Target
X	LiDAR Ground Control
	UTM Zone 10
	New Control
	Photo ID
	Published Control

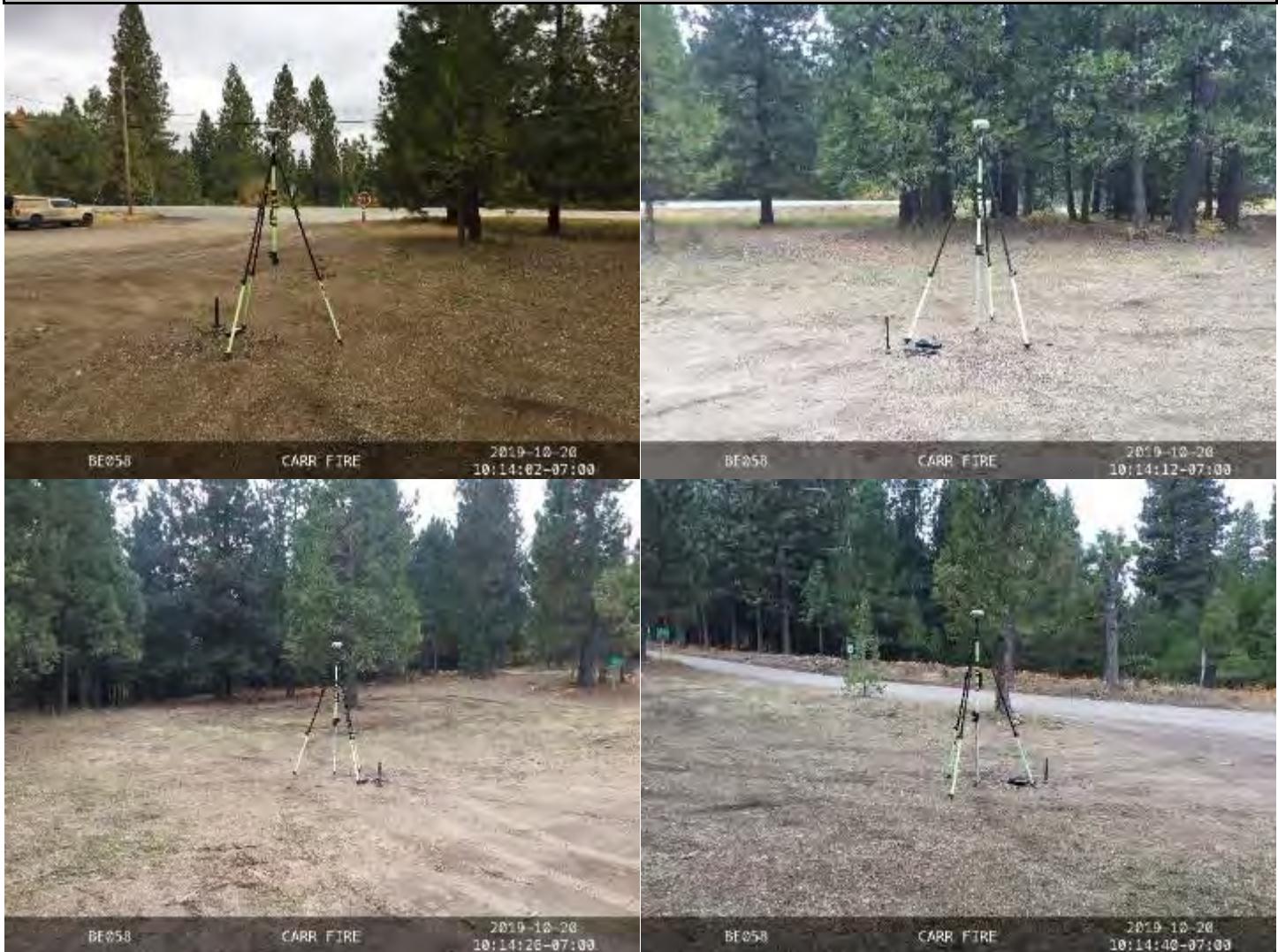
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4581414.905	550398.353	1173.967

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE059
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Elk Spring

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4568435.495	573813.579	1033.369

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/21/2019
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE060
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Tangle Blue Lake

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4557102.886	523450.868	1350.929

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE061
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEDRICK

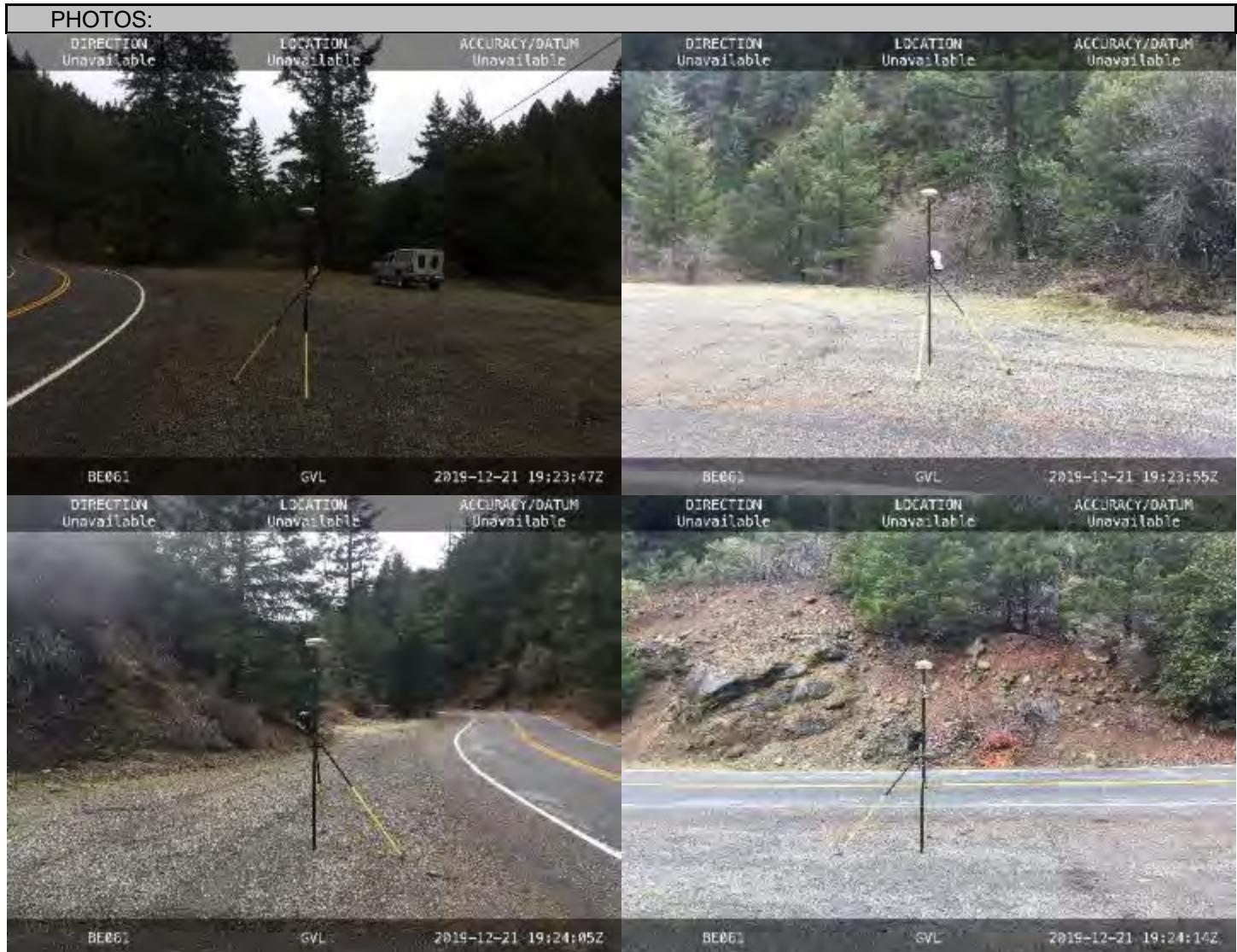
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4520629.440	495842.523	659.869

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/21/2019
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	FS





Point ID	BE062
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	HAYFORK BALLY

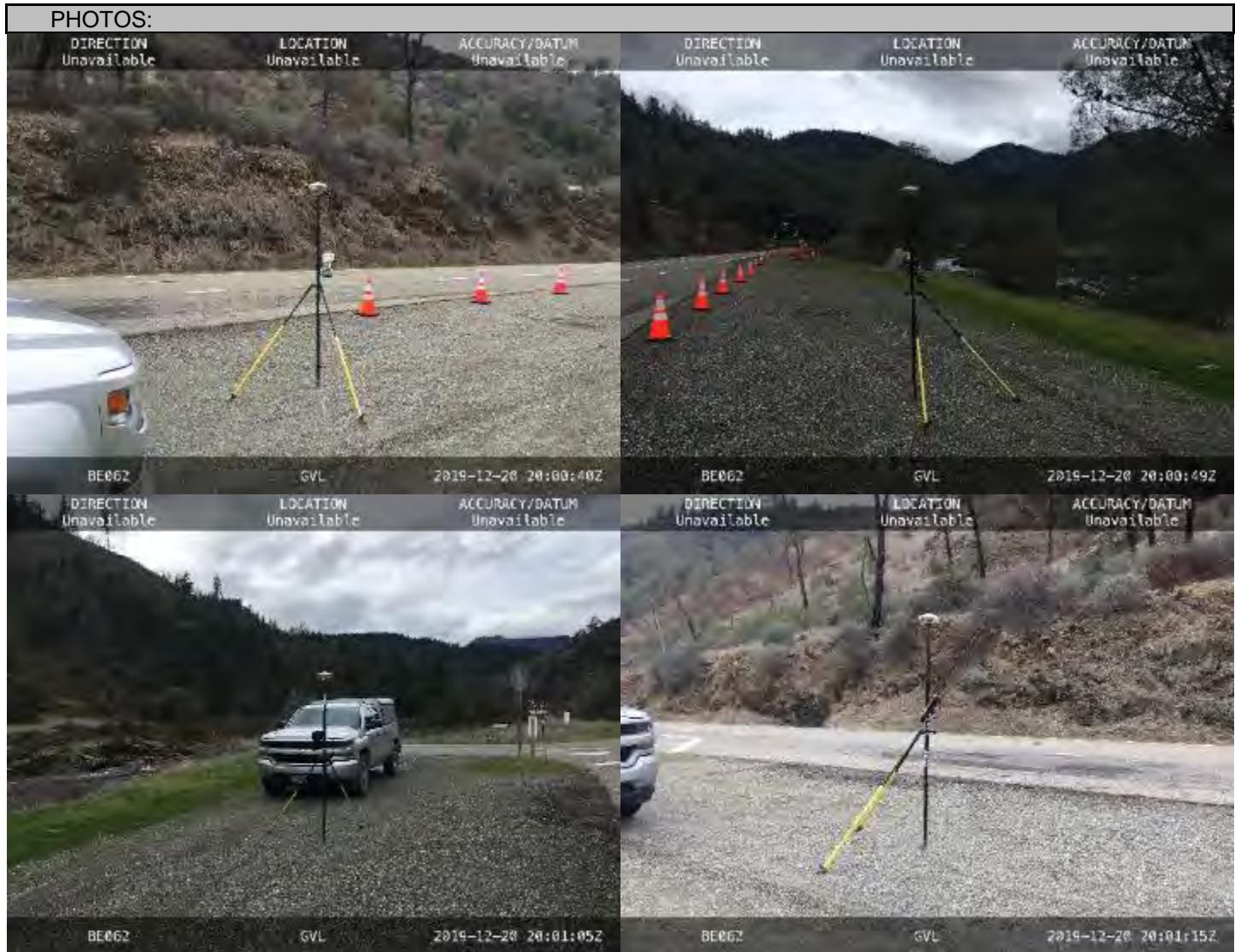
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4510072.360	481778.239	382.196

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/20/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	FS





Point ID	BE063
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Weaverville

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4500080.555	504823.415	506.116

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE064
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Hayfork Summit

	Aerial Target
	LiDAR Ground Control
X	UTM Zone 10
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4493909.579	499194.216	1109.700

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE065
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	French Gulch

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4499659.649	521293.887	862.842

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	BE066
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	City of Shasta Lake

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4503552.945	554883.774	234.835

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/28/2019
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS





Point ID	BE067
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Devils Rock

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4511642.430	580597.799	376.652

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	RTK

PHOTOS:





Point ID	BE068
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Palo Cedro

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4495948.986	572369.802	173.701

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE069
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	South China Mountain

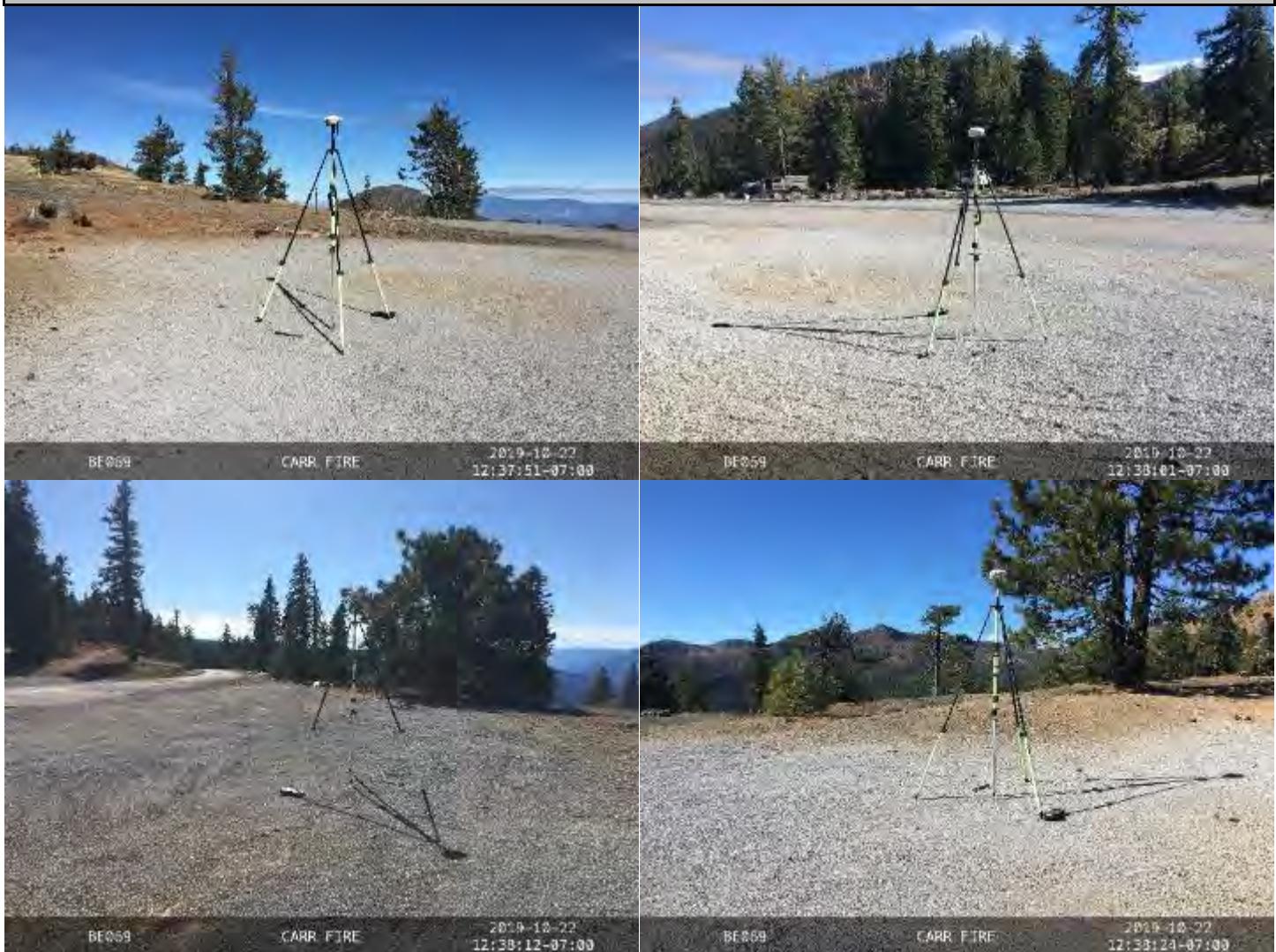
Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4576941.017	538651.230	2084.292

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/22/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Point ID	BE070
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Scott Mountain

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

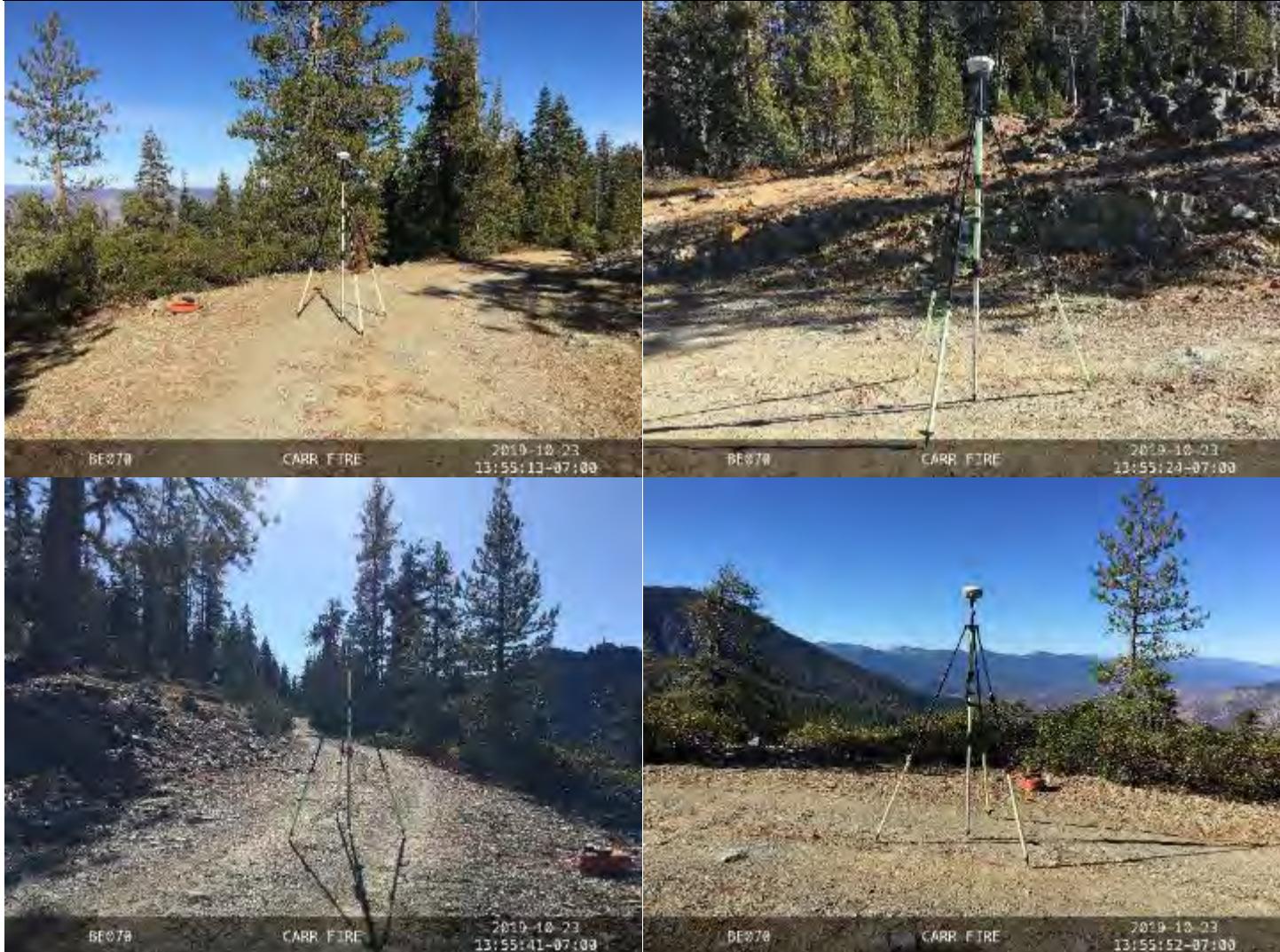
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4567959.015	522884.069	1925.028

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/23/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	BE071
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	City of Mount Shasta

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4570893.533	560653.028	1148.212

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.014
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE072
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shoeinhorse Mountain

	Aerial Target
	LiDAR Ground Control
X	UTM Zone 10
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4546000.616	581855.428	1011.228

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	Fast Static

PHOTOS:





Point ID	BE073
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	McCloud

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4568919.998	565752.694	1363.246

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE074
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Chicken Hawk Hill

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4543725.267	547271.384	1321.610

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE075
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Chicken Hawk Hill

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4539092.605	549625.325	461.588

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE076
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Mount Eddy

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4569189.024	549863.691	1167.543

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/06/2020
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	BE077
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Weaverville

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4506394.435	506385.970	590.463

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE078
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEDRICK

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4513020.180	492264.742	438.002

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/20/2019
RMSE Hz	0.004
RMSE Z	0.004
GPS Method	FS





Point ID	BE079
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	IRONSIDE MOUNTAIN

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4522183.435	459228.292	370.251

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/18/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	FS





Point ID	BE080
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	BIG BAR

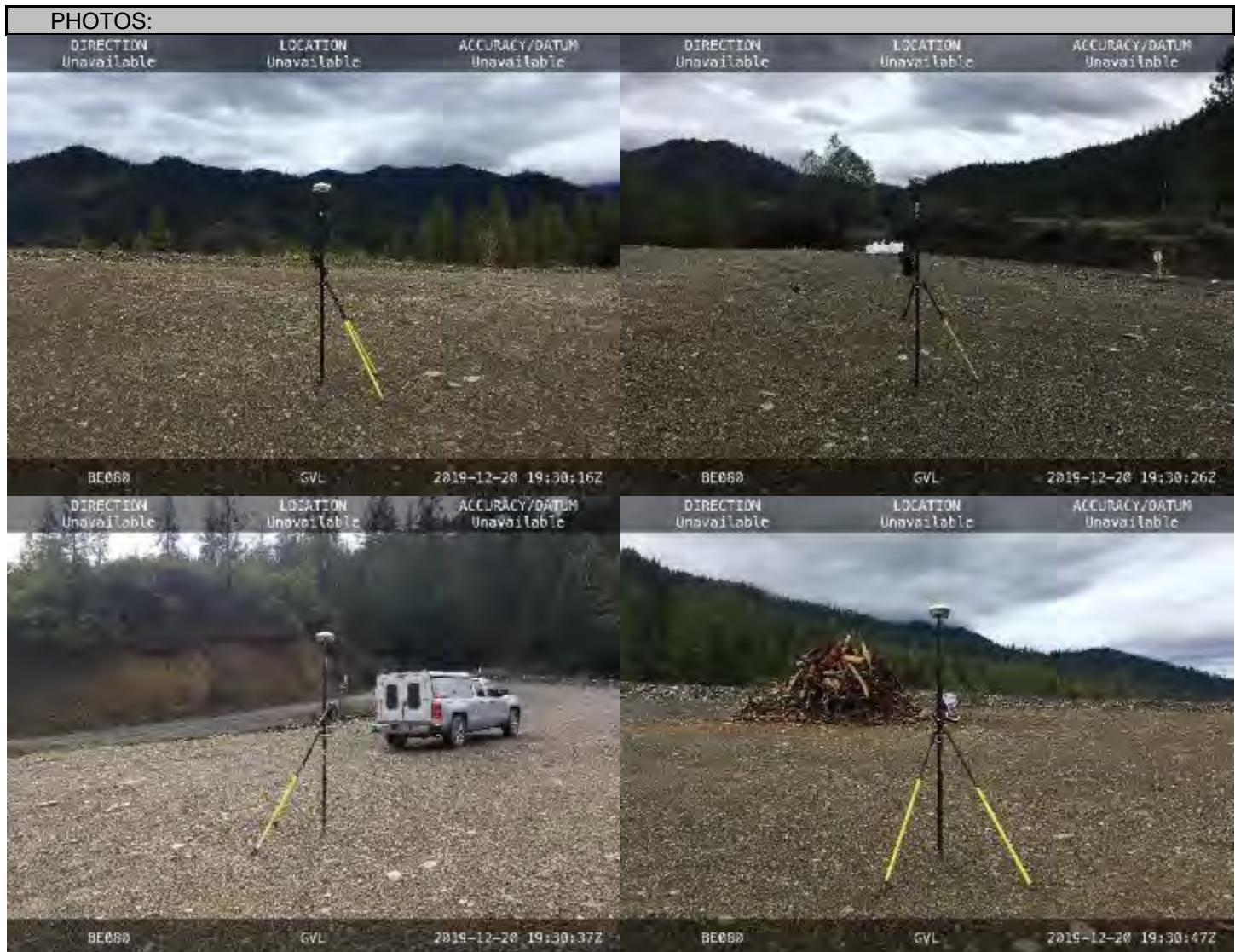
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4509168.008	477920.769	479.849

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/20/2019
RMSE Hz	0.002
RMSE Z	0.002
GPS Method	FS





Point ID	BE081
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEDRICK

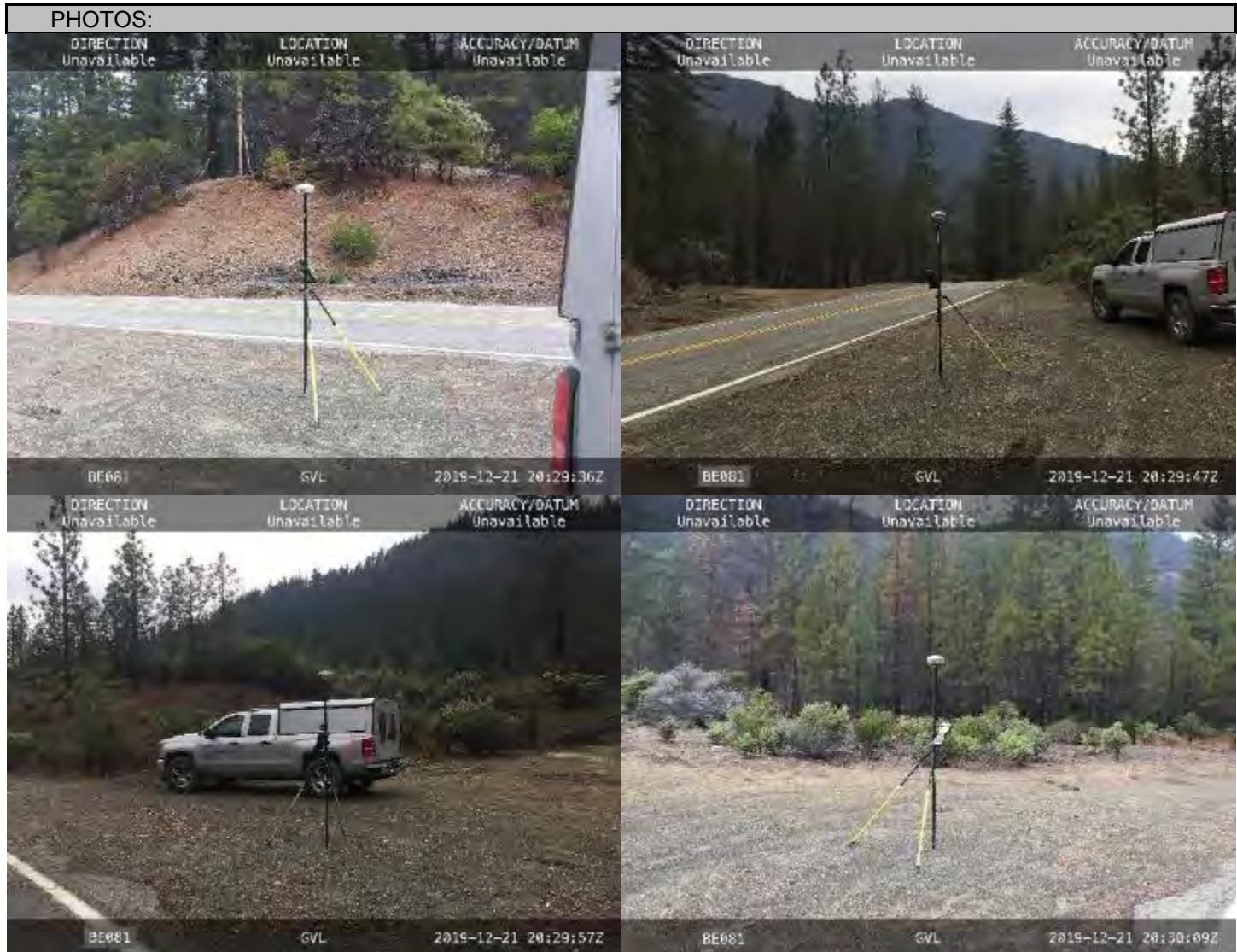
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4514160.207	495300.207	583.262

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/21/2019
RMSE Hz	0.004
RMSE Z	0.004
GPS Method	FS





Point ID	BE082
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Montgomery Creek

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4515511.311	588123.657	602.735

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/28/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS





Point ID	BE083
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Bella Vista

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4498867.108	563993.732	166.246

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/29/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	BE084
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4480734.765	534118.955	273.114

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/03/2019
RMSE Hz	0.012
RMSE Z	0.016
GPS Method	RTK

PHOTOS





Point ID	BE085
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Arbuckle Mountain

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4470566.504	513941.557	678.426

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE086
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Olinda

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4476669.833	551940.662	225.355

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/27/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS





Point ID	BE087
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shasta Dam

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4481251.002	555297.586	141.678

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS





Point ID	BE088
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Palo Cedro

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4484269.099	564509.363	129.807

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/27/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS





Point ID	BE089
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Mount Eddy

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4487823.233	569898.913	163.206

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/30/2019
RMSE Hz	0.008
RMSE Z	0.007
GPS Method	RTK

PHOTOS





Point ID	BE090
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Hagaman Gulch

Aerial Target
LiDAR Ground Control
X
UTM Zone 10
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4487998.413	599145.269	1161.315

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	BE091
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Lyonsville

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4466684.071	610022.817	1328.396

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/27/2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	BE092
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Hagaman Gulch

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4486332.345	604324.973	1216.945

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	BE093
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Finley Butte

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4467473.510	603685.765	1011.505

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/27/2019
RMSE Hz	0.018
RMSE Z	0.018
GPS Method	RTK

PHOTOS:





Point ID	BE094
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Tuscan Buttes NE

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

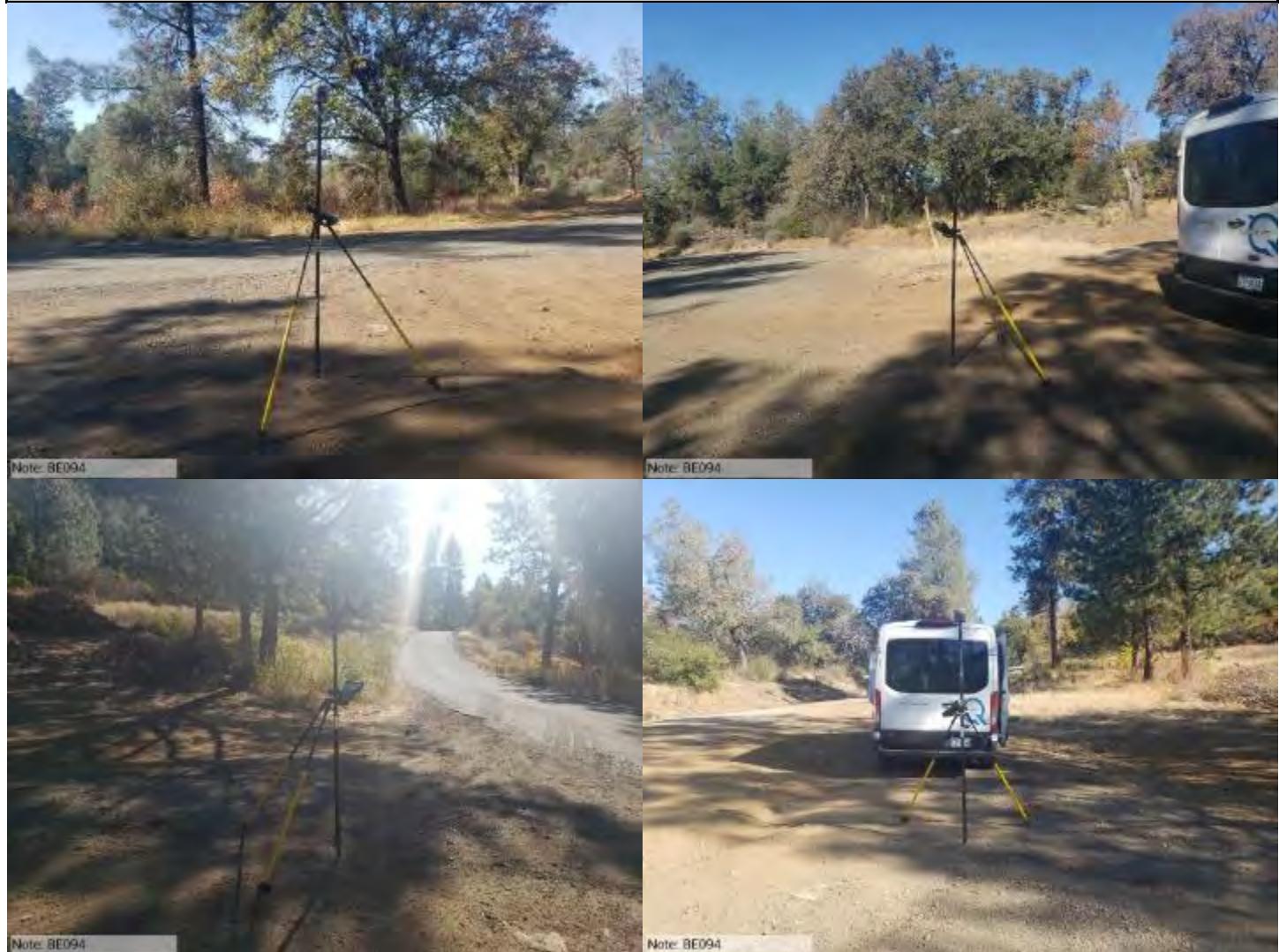
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4478980.227	584217.207	567.507

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/02/2019
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	RTK

PHOTOS





Point ID	BE095
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Beegum

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4463262.973	516752.787	506.026

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





URBAN AREA POINT LOG SHEETS



Point ID	UA001
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	City of Mount Shasta

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4573367.147	557226.978	1069.200

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	UA002
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Dunsmuir

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4562579.779	560996.135	718.226

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	UA003
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Carville

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

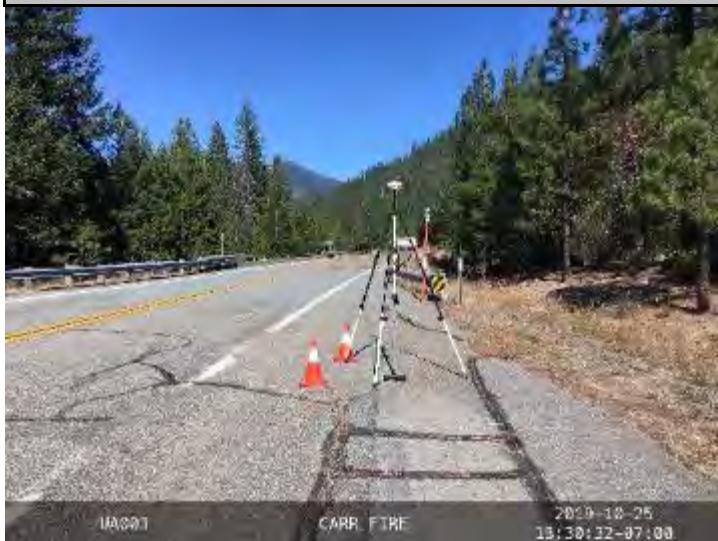
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4550032.006	524656.326	779.115

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	UA004
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	WEAVERVILLE

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4509166.687	505347.639	628.999

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/21/2019
RMSE Hz	0.004
RMSE Z	0.004
GPS Method	FS

PHOTOS:

DIRECTION Unavailable	LOCATION Unavailable	ACCURACY/DATUM Unavailable	DIRECTION Unavailable	LOCATION Unavailable	ACCURACY/DATUM Unavailable
					
UA004	PVD	2019-12-21 22:36:31Z	UA004	PVD	2019-12-21 22:36:39Z
DIRECTION Unavailable	LOCATION Unavailable	ACCURACY/DATUM Unavailable	DIRECTION Unavailable	LOCATION Unavailable	ACCURACY/DATUM Unavailable
					
UA004	PVD	2019-12-21 22:36:50Z	UA004	PVD	2019-12-21 22:37:01Z



Point ID	UA005
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Lamoine

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4526189.793	552172.604	333.989

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	UA006
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	O'Brien

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4511527.527	557139.043	329.405

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_0649
Antenna Height	1.995m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	UA007
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	City of Shasta Lake

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4503376.026	554731.144	234.753

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/28/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS





Point ID	UA008
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Redding

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4494138.527	543291.321	305.885

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	UA009
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Redding

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4490583.227	550476.433	213.369

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.004
RMSE Z	0.004
GPS Method	RTK

PHOTOS





Point ID	UA010
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Enterprise

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4492745.932	555396.489	183.255

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	RTK

PHOTOS





Point ID	UA011
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Beegum

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4463137.385	516747.256	509.192

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	UA012
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Cottonwood

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4477787.963	559586.466	130.985

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	UA013
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Mineral

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4467303.841	619186.325	1496.907

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/27/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	UA014
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Inskip Hill

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4465201.216	592346.263	565.765

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	UA015
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shingletown

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4483059.186	594272.77	1064.184

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	11/02/2019
RMSE Hz	0.020
RMSE Z	0.016
GPS Method	RTK

PHOTOS





Point ID	UA016
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Enterprise

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4496782.42	553116.236	216.209

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS





Point ID	UA017
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Montgomery Creek

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

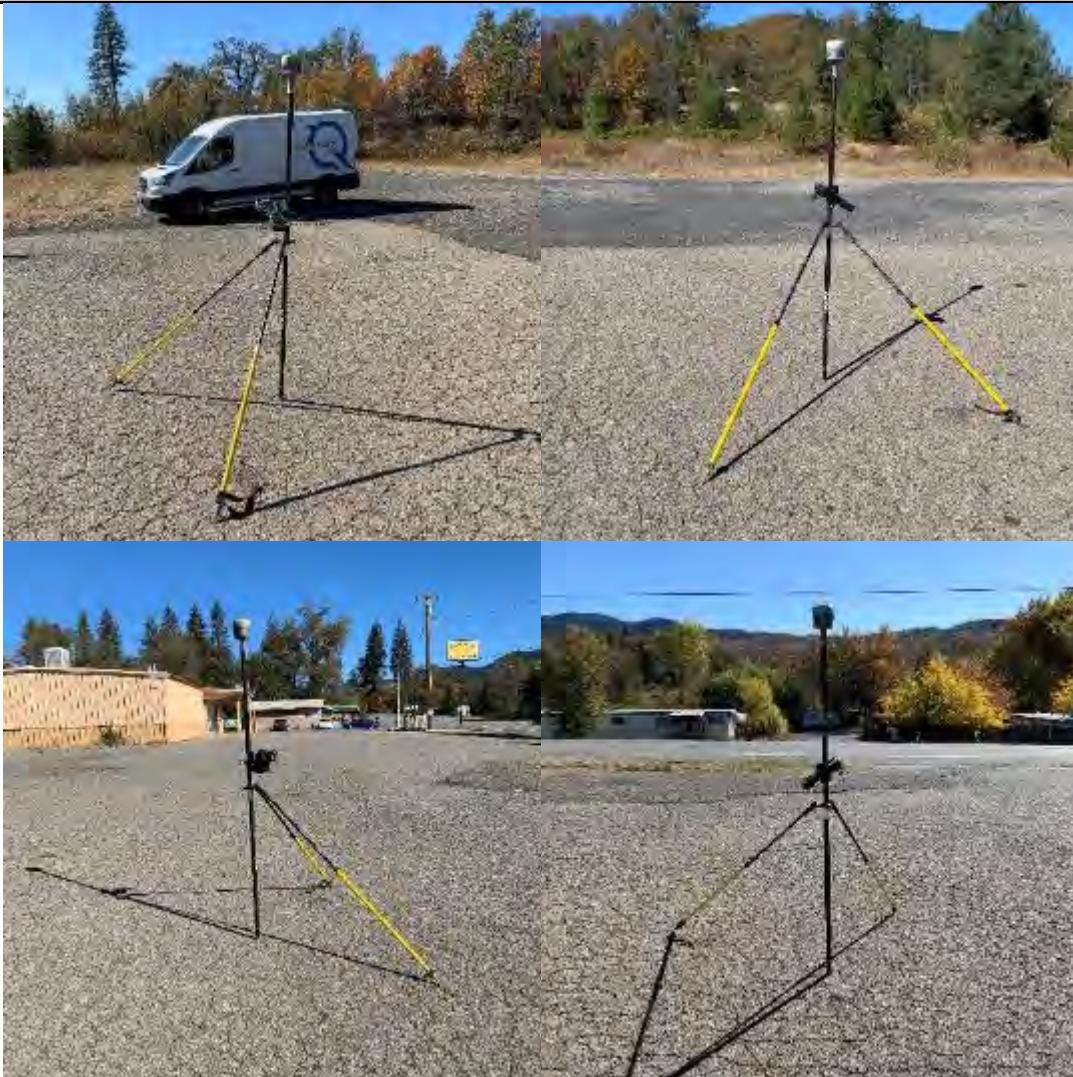
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4516351.773	589124.993	633.167

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/28/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS





Point ID	UA018
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Montgomery Creek

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4517973.791	589403.879	652.836

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/28/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	UA019
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Bella Vista

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4510018.963	566152.814	350.744

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	UA020
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Whiskeytown

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4500009.552	534572.077	373.263

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	RTK

PHOTOS





Point ID	UA021
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	French Gulch

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4506413.233	530828.844	420.505

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/31/2019
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	UA022
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Hagaman Gulch

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4485692.273	600621.571	1182.258

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	UA023
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Inwood

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4483882.244	585227.741	575.981

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	UA024
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Palo Cedro

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4490061.713	564494.781	140.038

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/30/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	UA025
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Redding

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4485162.355	552400.373	143.409

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	UA026
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	McCloud

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4567679.91	572969.022	1001.866

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/21/2019
RMSE Hz	0.011
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





TALL WEEDS POINT LOG SHEETS



Point ID	TG001
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	City of Mount Shasta

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

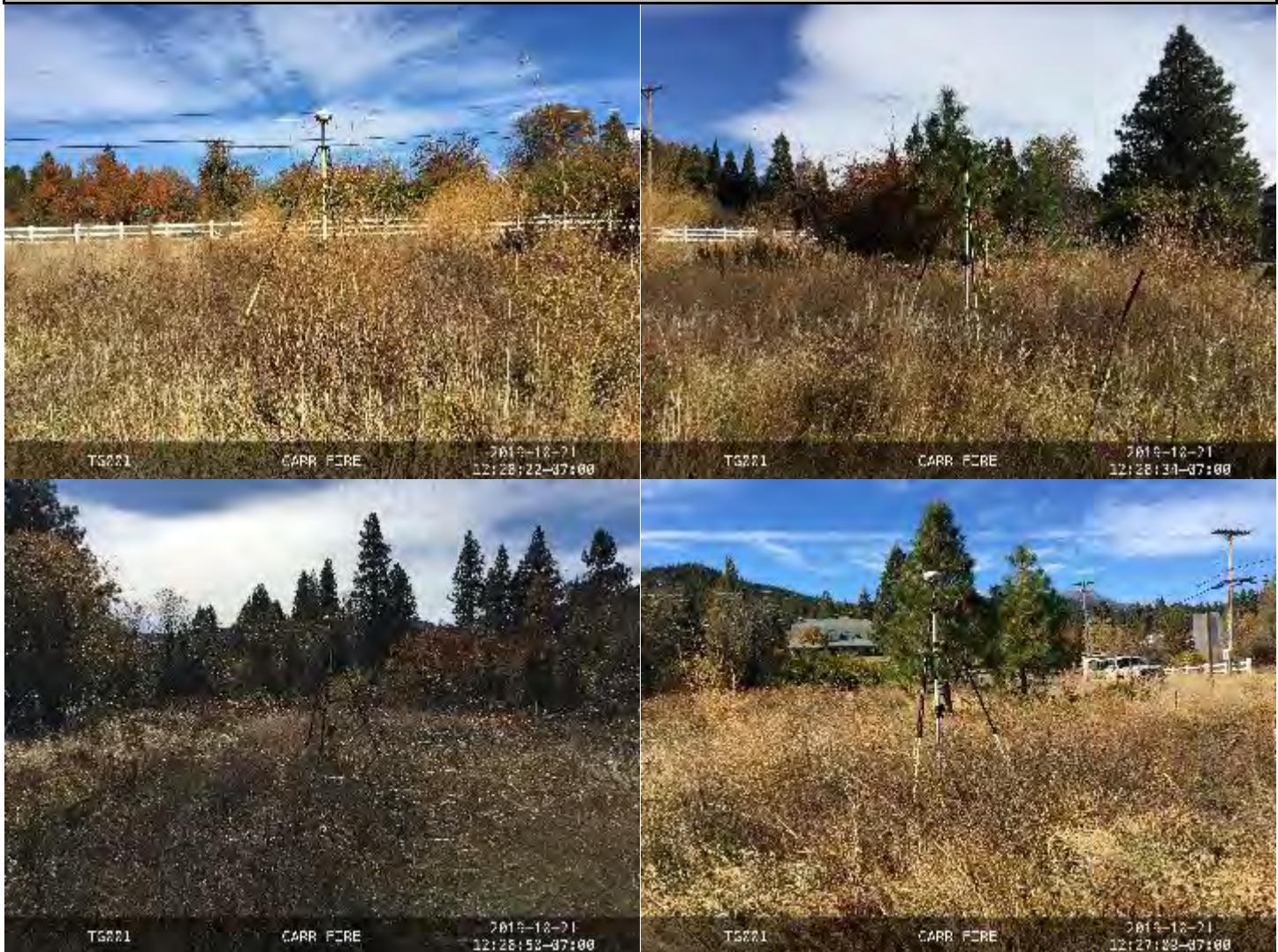
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4572042.263	556756.211	1023.124

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/21/2019
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	TG002
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Tangle Blue Lake

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

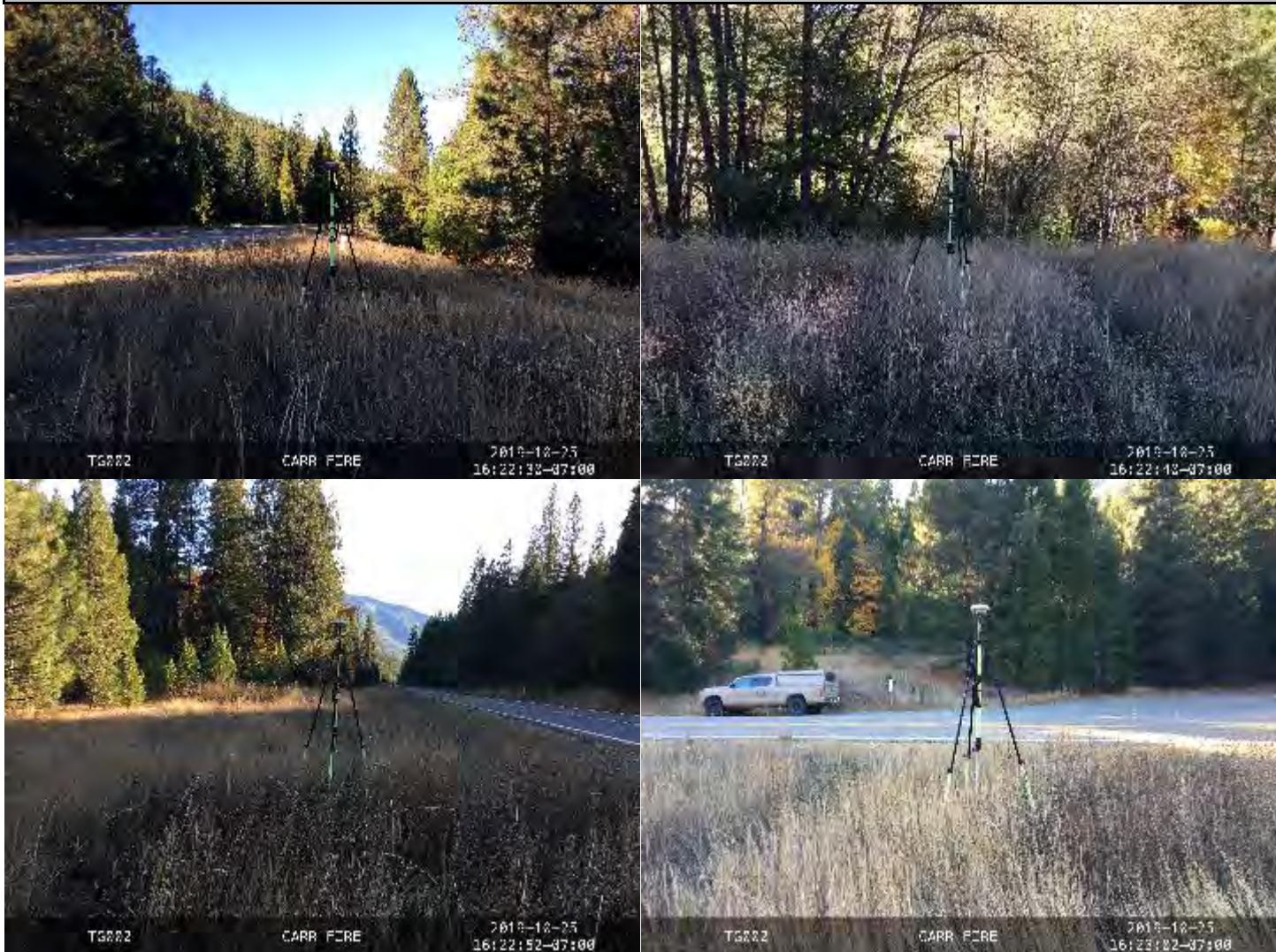
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4558693.509	528502.038	887.110

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	TG003
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Carville

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4544801.459	525346.168	728.373

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.003
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	TG004
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Damnation Peak

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4535276.317	532690.808	1018.584

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	TG005
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Wildwood

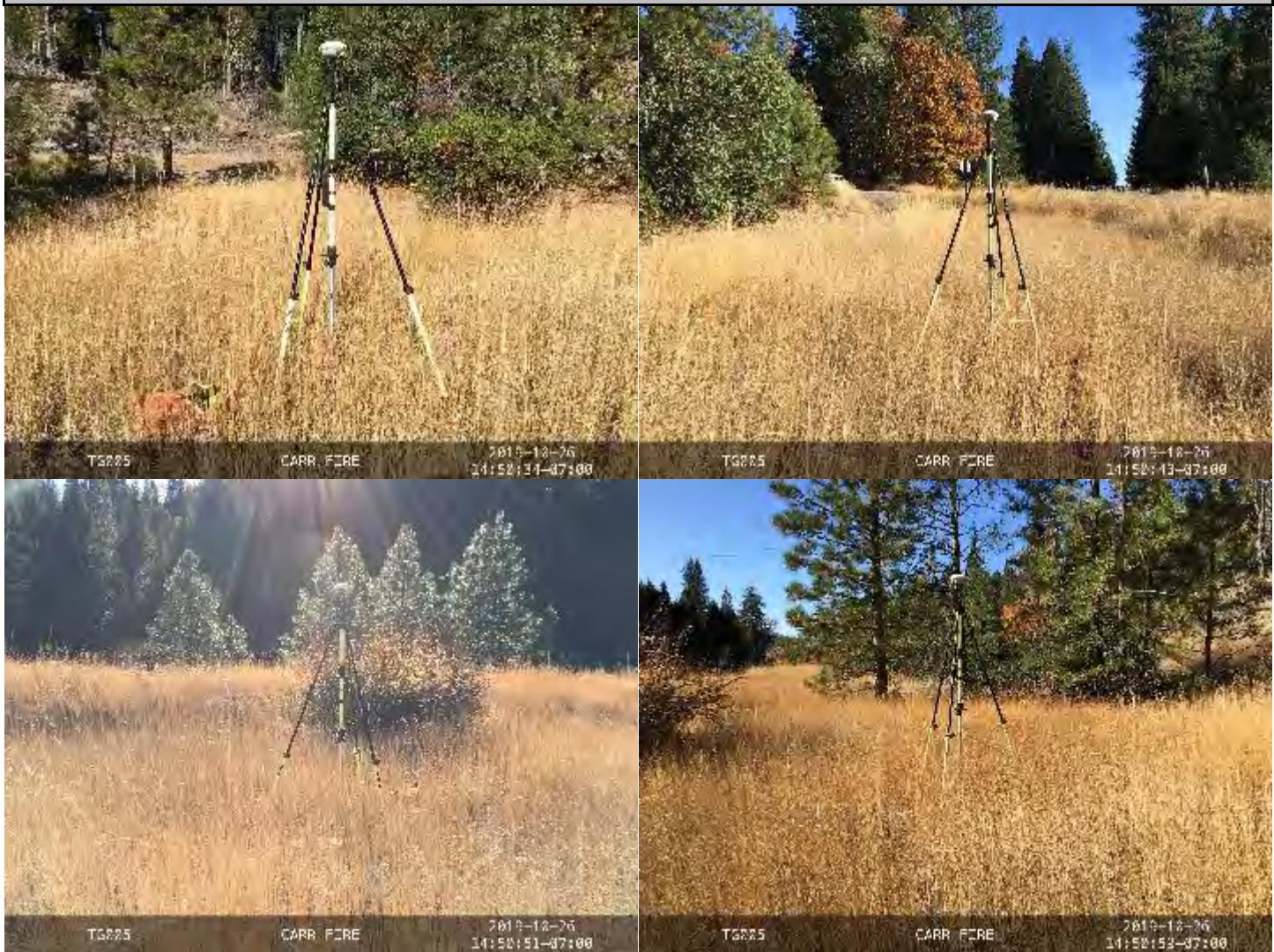
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4470305.199	498430.13	1151.200

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.010
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



Point ID	TG006
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4475753.366	540626.988	256.647

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/30/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	TG007
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Olinda

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4476671.382	551987.074	224.655

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/27/2019
RMSE Hz	0.008
RMSE Z	0.007
GPS Method	RTK

PHOTOS





Point ID	TG008
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Cottonwood

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4481301.078	555371.258	140.835

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	TG009
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Palo Cedro

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4484311.186	564506.975	129.728

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/27/2019
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	RTK

PHOTOS





Point ID	TG010
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Tuscan Buttes NE

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4482419.563	584322.745	549.932

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	TG011
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Dales

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4463235.638	582124.071	266.152

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS





Point ID	TG012
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Dales

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4459099.588	574631.333	268.313

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS





Point ID	TG013
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEL LOMA

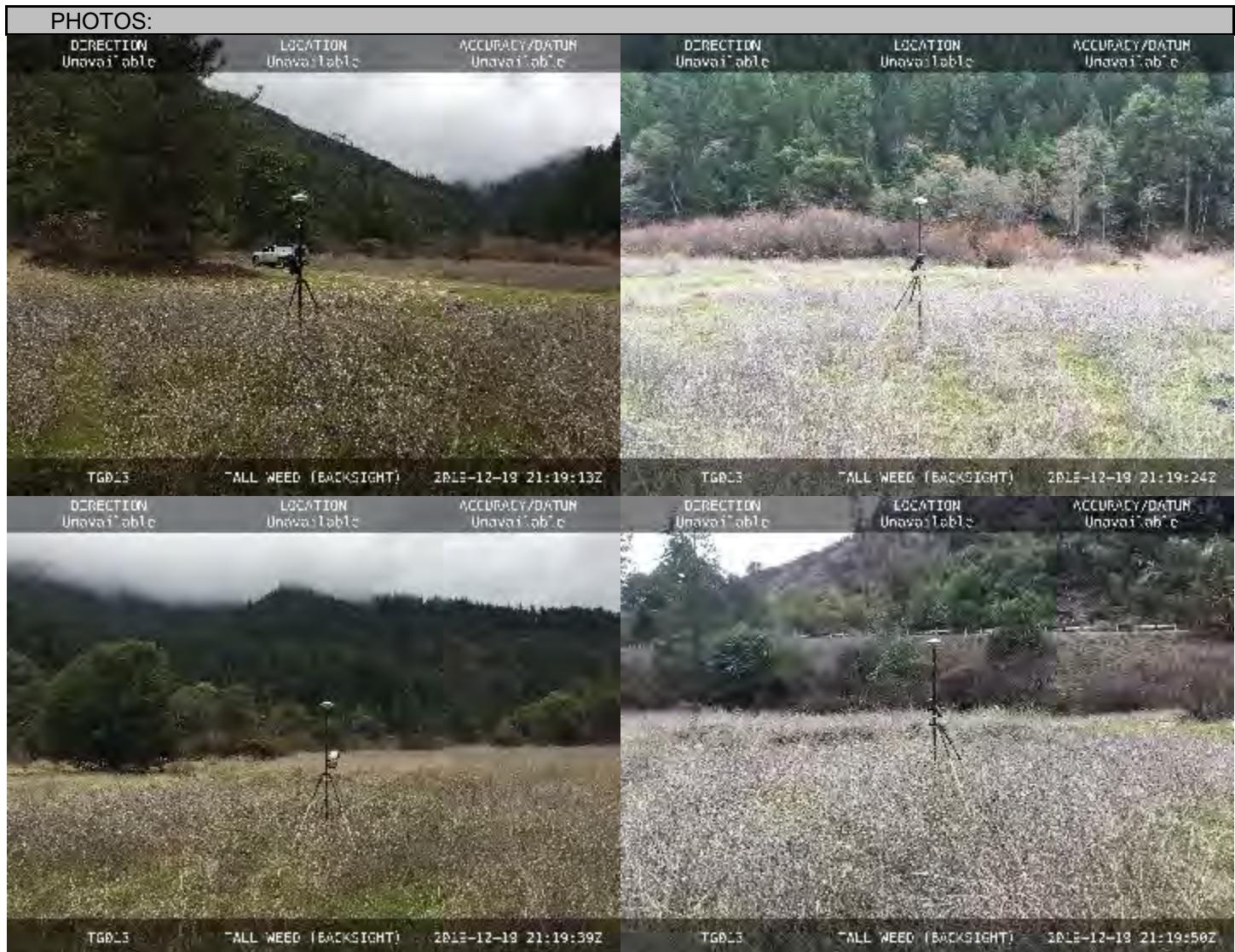
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4513684.459	472303.928	336.446

Operator	Casey Broderick
Receiver Model	Trimble R8
Receiver S/N	4723133666
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	12/19/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	FS





FOREST POINT LOG SHEETS



Point ID	FR001
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	City of Mount Shasta

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

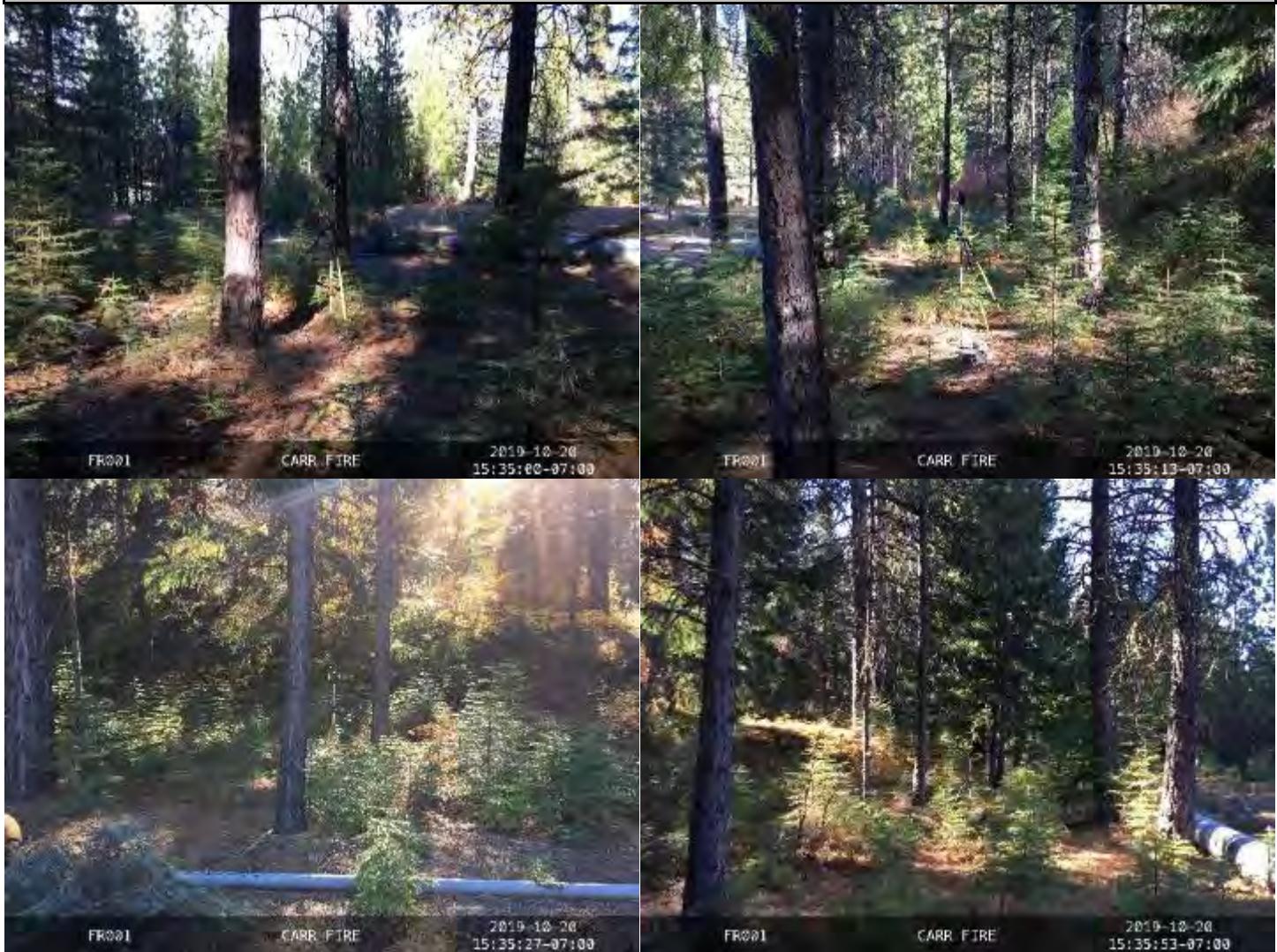
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4569819.64	556134.795	979.877

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5" P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.020
RMSE Z	0.023
GPS Method	Total Station

PHOTOS:





Point ID	FR002
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	South China Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4576931.879	538718.875	2081.746

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5" P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/22/2019
RMSE Hz	0.020
RMSE Z	0.019
GPS Method	Total Station

PHOTOS:





Point ID	FR003
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4517649.158	511337.83	1008.112

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.018
RMSE Z	0.018
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR004
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Center

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4536486.496	521130.382	1041.181

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR005
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	South China Mountain

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4570977.586	538879.602	1940.835

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5" P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/22/2019
RMSE Hz	0.019
RMSE Z	0.020
GPS Method	Total Station

PHOTOS:





Point ID	FR006
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Mount Eddy

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4572232.781	550641.326	1325.114

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5" P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/21/2019
RMSE Hz	0.018
RMSE Z	0.018
GPS Method	Total Station

PHOTOS:





Point ID	FR007
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Weed

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4581397.206	550411.969	1174.311

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5" P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.018
RMSE Z	0.020
GPS Method	Total Station

PHOTOS:





Point ID	FR008
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	MCCloud

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4568854.42	568760.192	1187.981

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.700m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.021
RMSE Z	0.021
GPS Method	Total Station

PHOTOS:



Note: FR008



Note: FR008



Note: FR008



Note: FR008



Point ID	FR009
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Seven Lakes Basin

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4564548.653	551815.473	1658.414

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/06/2020
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR010
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Mumbo Basin

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4558570.892	531837.066	1633.344

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.019
RMSE Z	0.020
GPS Method	Total Station

PHOTOS:



Point ID	FR011
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Tangle Blue Lake

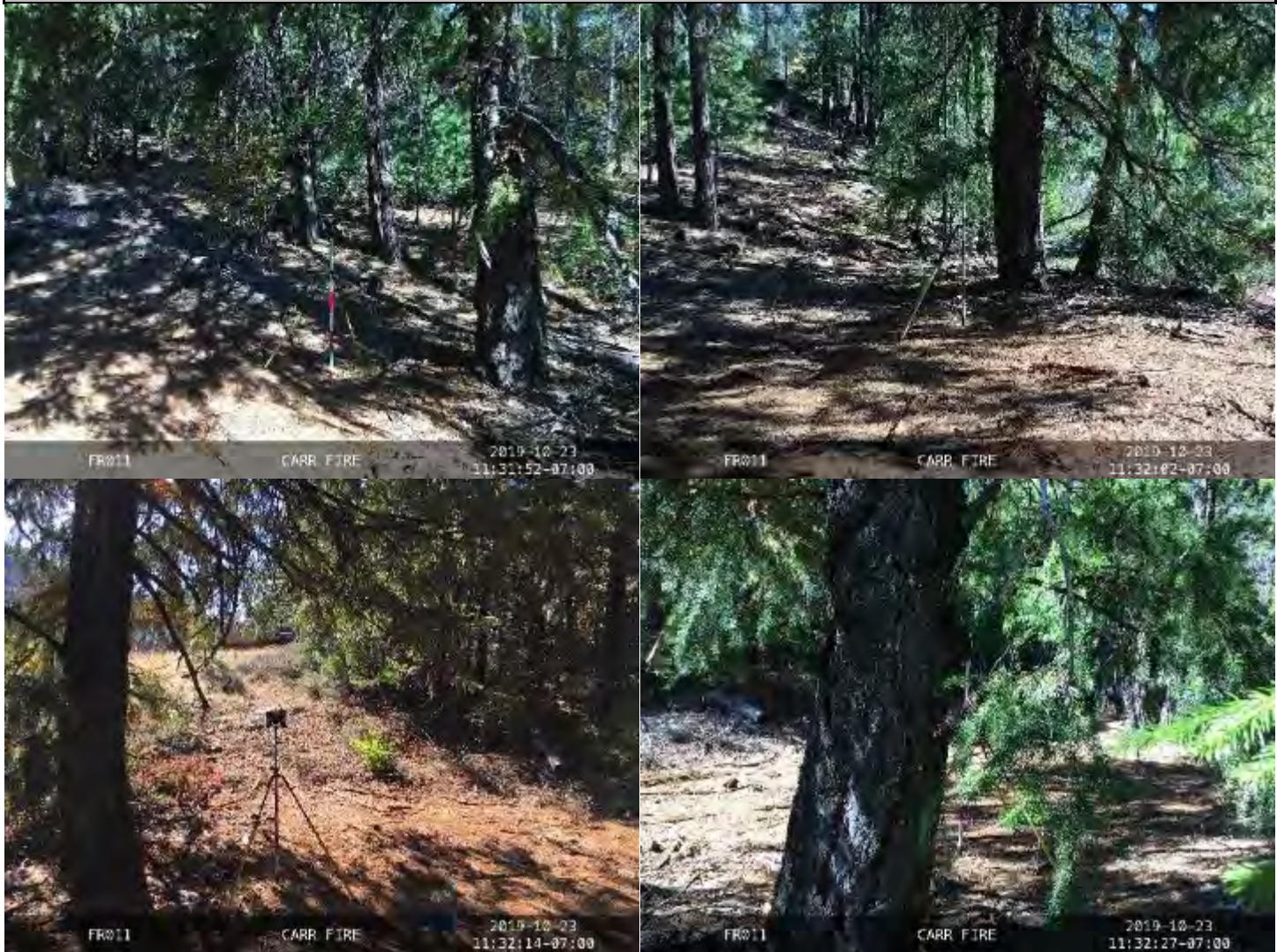
Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4564870.95	529670.612	997.501

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/23/2019
RMSE Hz	0.021
RMSE Z	0.021
GPS Method	Total Station

PHOTOS:



Point ID	FR012
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Tangle Blue Lake

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4554737.012	526696.092	828.595

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.018
RMSE Z	0.021
GPS Method	Total Station

PHOTOS:



Point ID	FR013
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4522267.259	511629.68	738.984

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.012
RMSE Z	0.011
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR014
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	SALYER

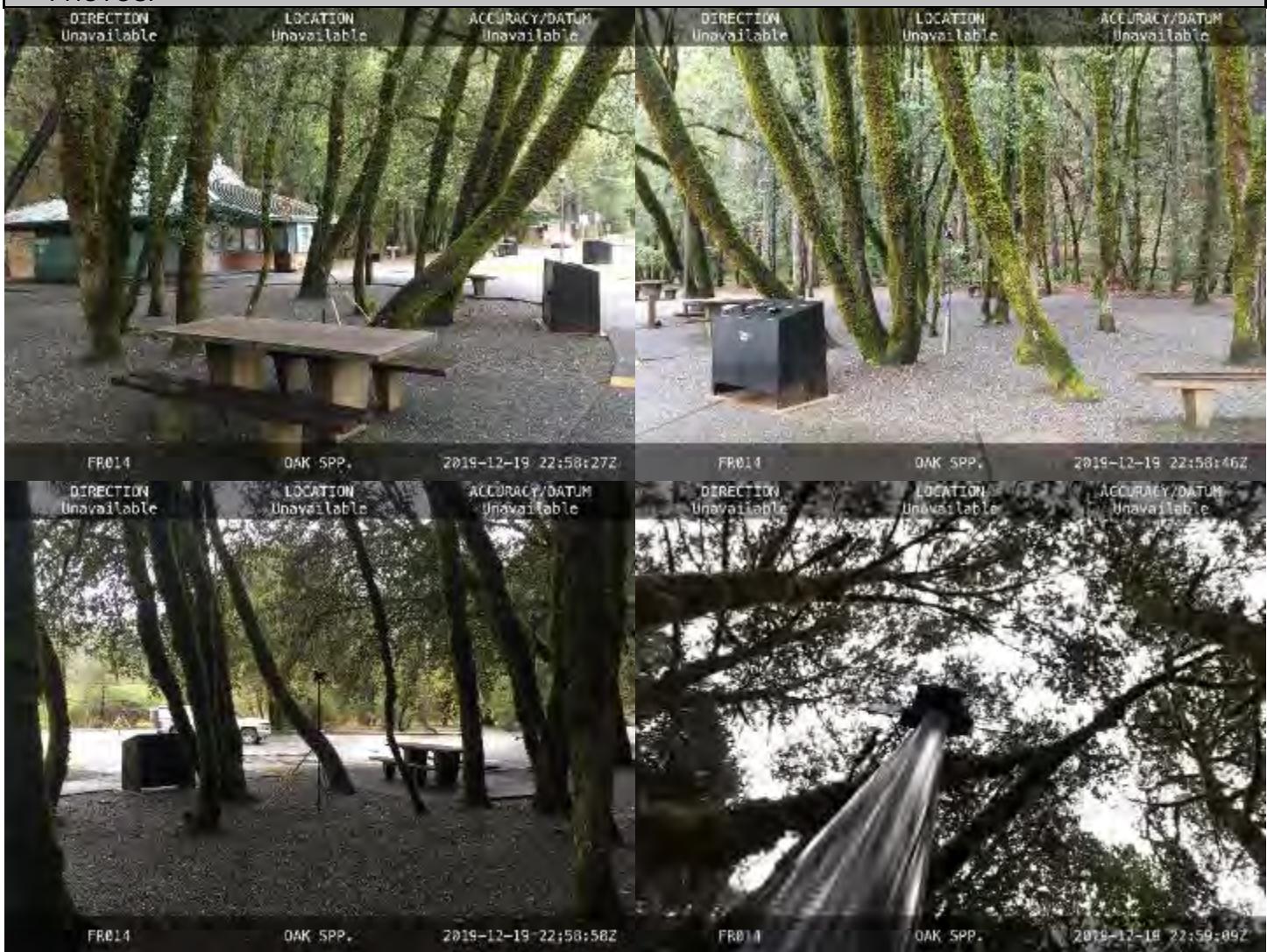
	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4525867.807	453915.344	208.528

Operator	Casey Broderick
Receiver Model	
Receiver S/N	
Antenna Height	2.115 Meters

Date (MM-DD-YYYY)	12/19/2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	NIKON TOTAL STATION

PHOTOS:



Point ID	FR015
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	HENNESSY PEAK

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4515811.537	457512.466	877.876

Operator	Casey Broderick
Receiver Model	
Receiver S/N	
Antenna Height	2.115 Meters

Date (MM-DD-YYYY)	12/19/2019
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	NIKON TOTAL STATION

PHOTOS:



Point ID	FR016
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	BIG BAR

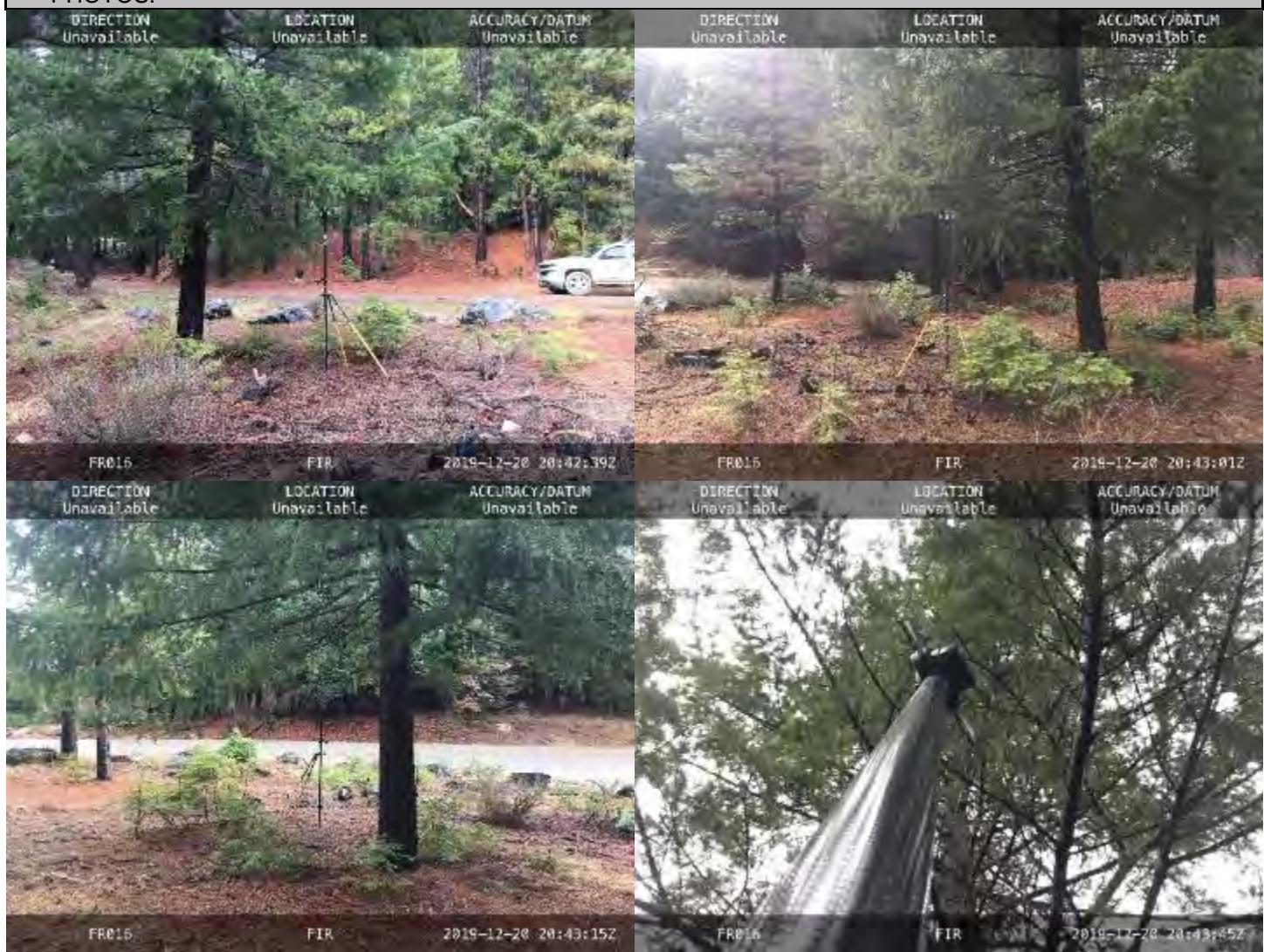
	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4506838.962	475816.93	1068.331

Operator	Casey Broderick
Receiver Model	
Receiver S/N	
Antenna Height	2.115 Meters

Date (MM-DD-YYYY)	12/20/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	NIKON TOTAL STATION

PHOTOS:



Point ID	FR017
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	IRONSIDE MOUNTAIN

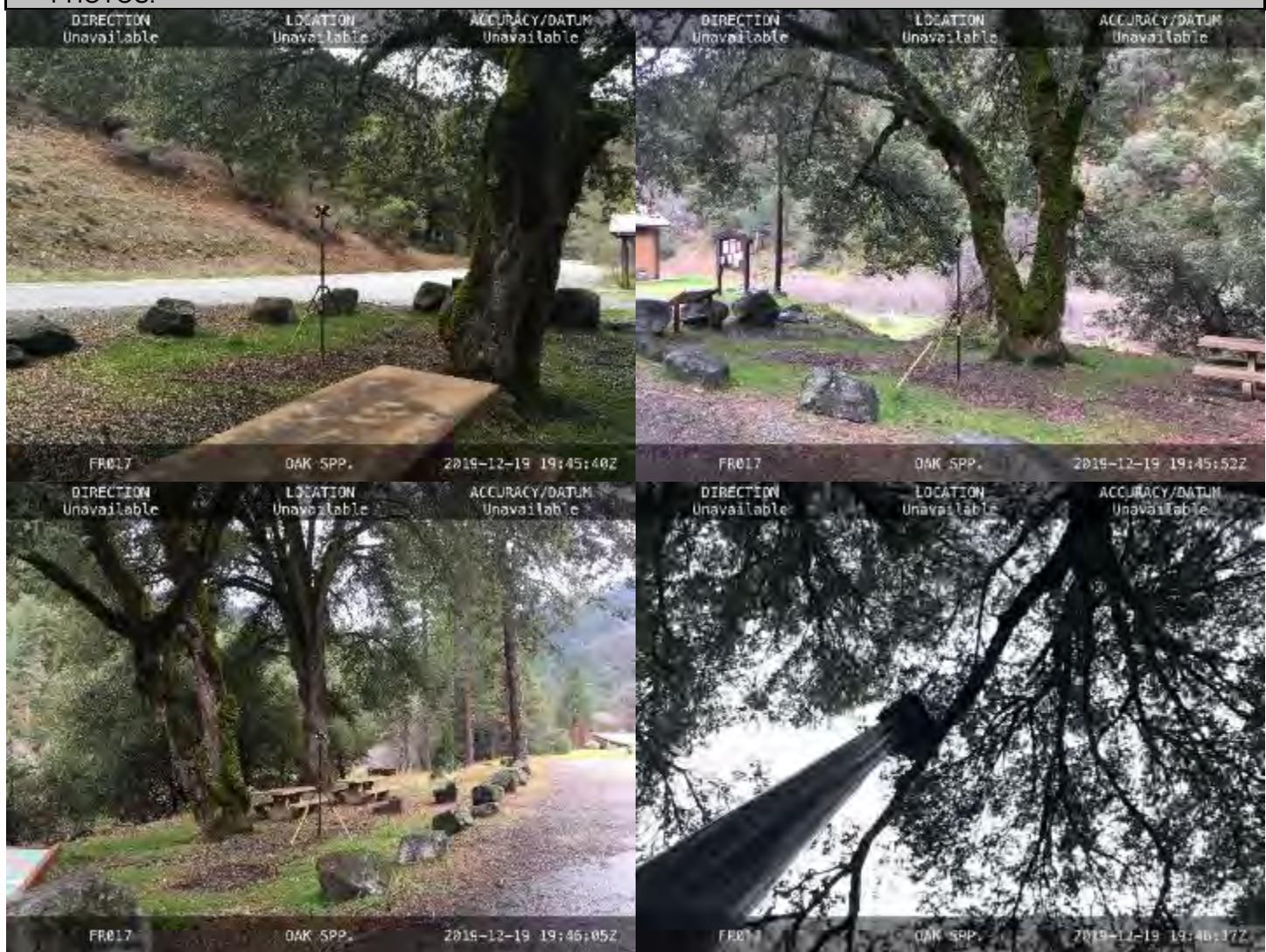
	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4515553.025	462945.224	299.313

Operator	Casey Broderick
Receiver Model	
Receiver S/N	
Antenna Height	2.115 Meters

Date (MM-DD-YYYY)	12/19/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	NIKON TOTAL STATION

PHOTOS:



Point ID	FR018
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEDRICK

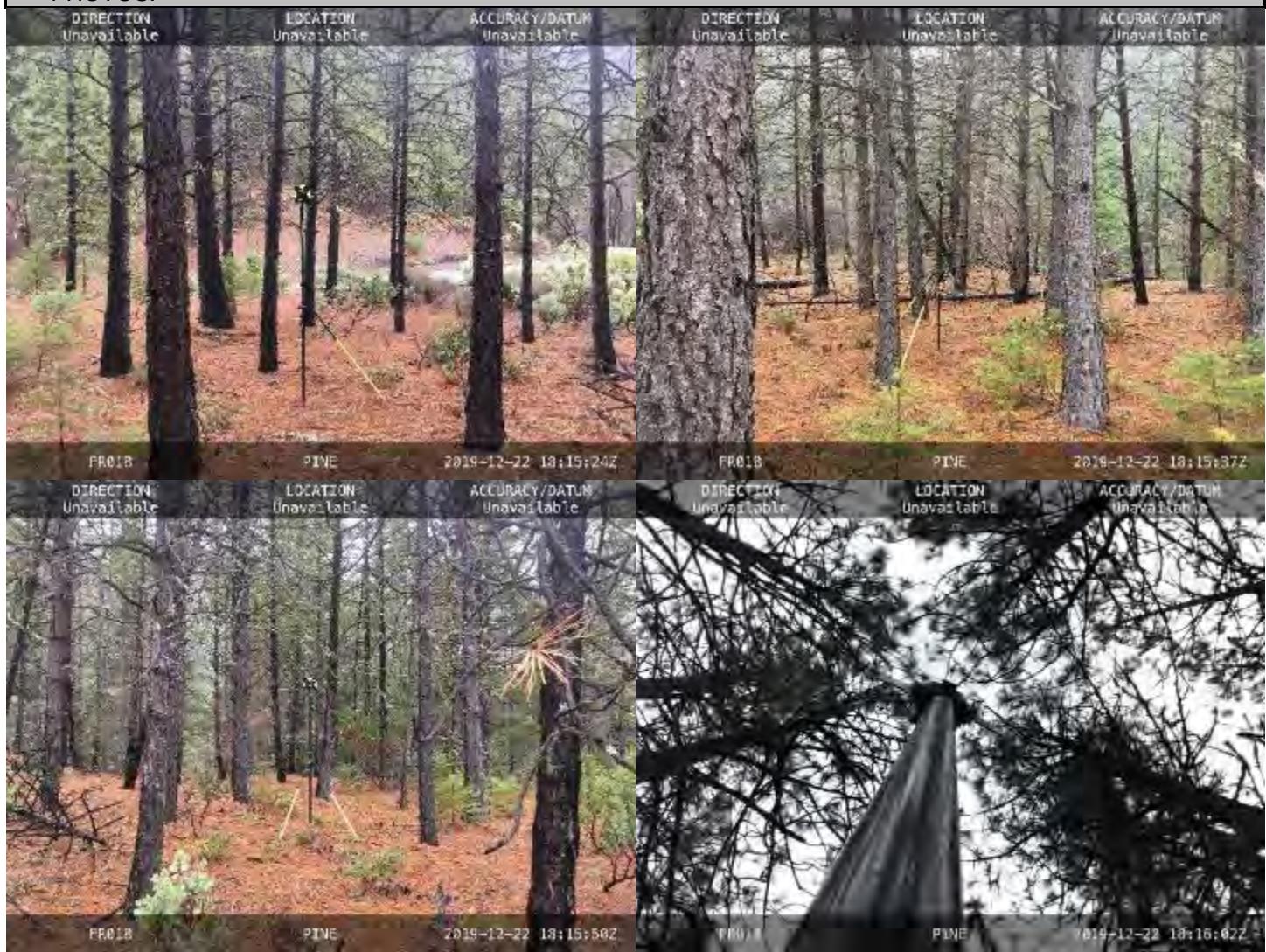
	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4514174.123	495274.399	583.533

Operator	Casey Broderick
Receiver Model	
Receiver S/N	
Antenna Height	2.115 Meters

Date (MM-DD-YYYY)	12/22/2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	NIKON TOTAL STATION

PHOTOS:



Point ID	FR019
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4523052.627	509113.864	758.822

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR020
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Dam

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4516217.207	518112.241	937.164

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/04/2020
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR021
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Lewiston

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4503954.673	515893.247	752.996

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.021
RMSE Z	0.019
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR022
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Damnation Peak

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

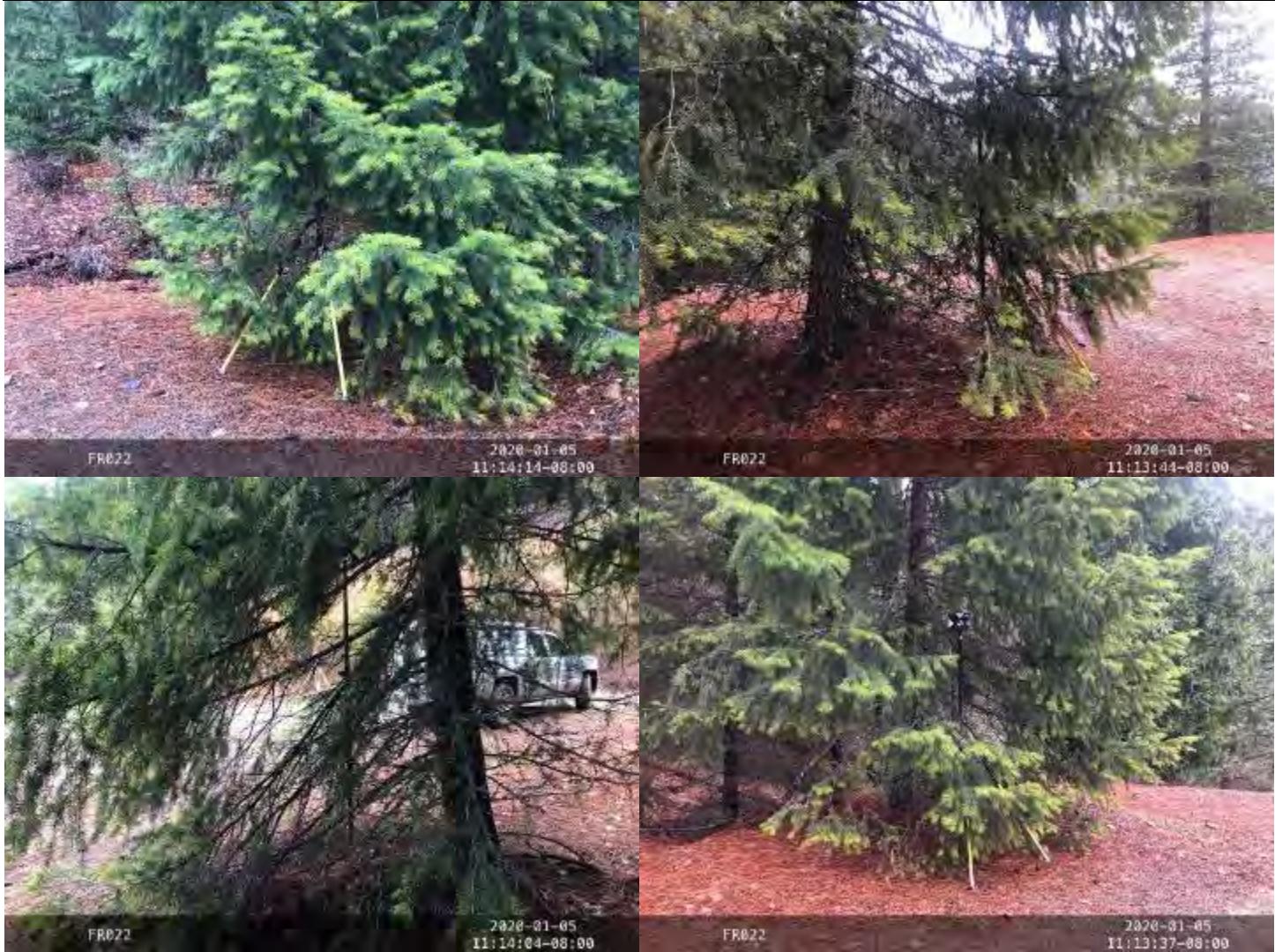
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4535269.163	532708.847	1018.650

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR023
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Dunsmuir

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4555370.593	557280.574	619.796

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.700m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.021
RMSE Z	0.022
GPS Method	Total Station

PHOTOS:





Point ID	FR024
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	City of Mount Shasta

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4570909.353	558856.035	1088.683

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.700m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.021
RMSE Z	0.020
GPS Method	Total Station

PHOTOS:





Point ID	FR025
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shoeinhorse Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4546000.396	581841.69	1011.154

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.550m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:





Point ID	FR026
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	O'Brien

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4521954.337	554613.117	331.424

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.700m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	Total Station

PHOTOS:





Point ID	FR027
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	O'Brien

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4523994.372	562804.144	343.118

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.550m

Date (MM-DD-YYYY)	12/31//2019
RMSE Hz	0.018
RMSE Z	0.019
GPS Method	Total Station

PHOTOS:





Point ID	FR028
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Bollibokka Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

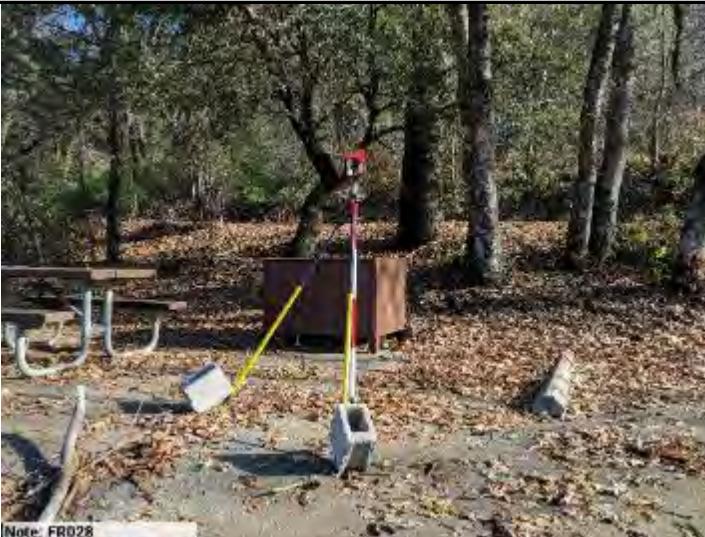
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4532012.634	563470.619	327.587

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.550m

Date (MM-DD-YYYY)	12/31//2019
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	Total Station

PHOTOS:





Point ID	FR029
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Hayfork Summit

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4493823.465	499200.137	1112.757

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.020
RMSE Z	0.019
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR030
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Bully Choop Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4494436.311	512534.475	685.048

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR031
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Lewiston

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4499653.822	521276.455	863.579

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/01/2020
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR032
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Miller Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4499438.975	599426.364	1055.364

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.550

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.020
RMSE Z	0.020
GPS Method	Total Station

PHOTOS:



Note: FR032

Note: FR032



Point ID	FR033
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Igo

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4488102.708	539961.342	313.229

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/30/2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR034
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Platina

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4468187.942	510101.115	755.178

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.013
RMSE Z	0.012
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR035
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Wildwood

	Aerial Target
X	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4470291.156	498482.975	1154.608

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5" P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.021
RMSE Z	0.026
GPS Method	Total Station

PHOTOS:





Point ID	FR036
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Platina

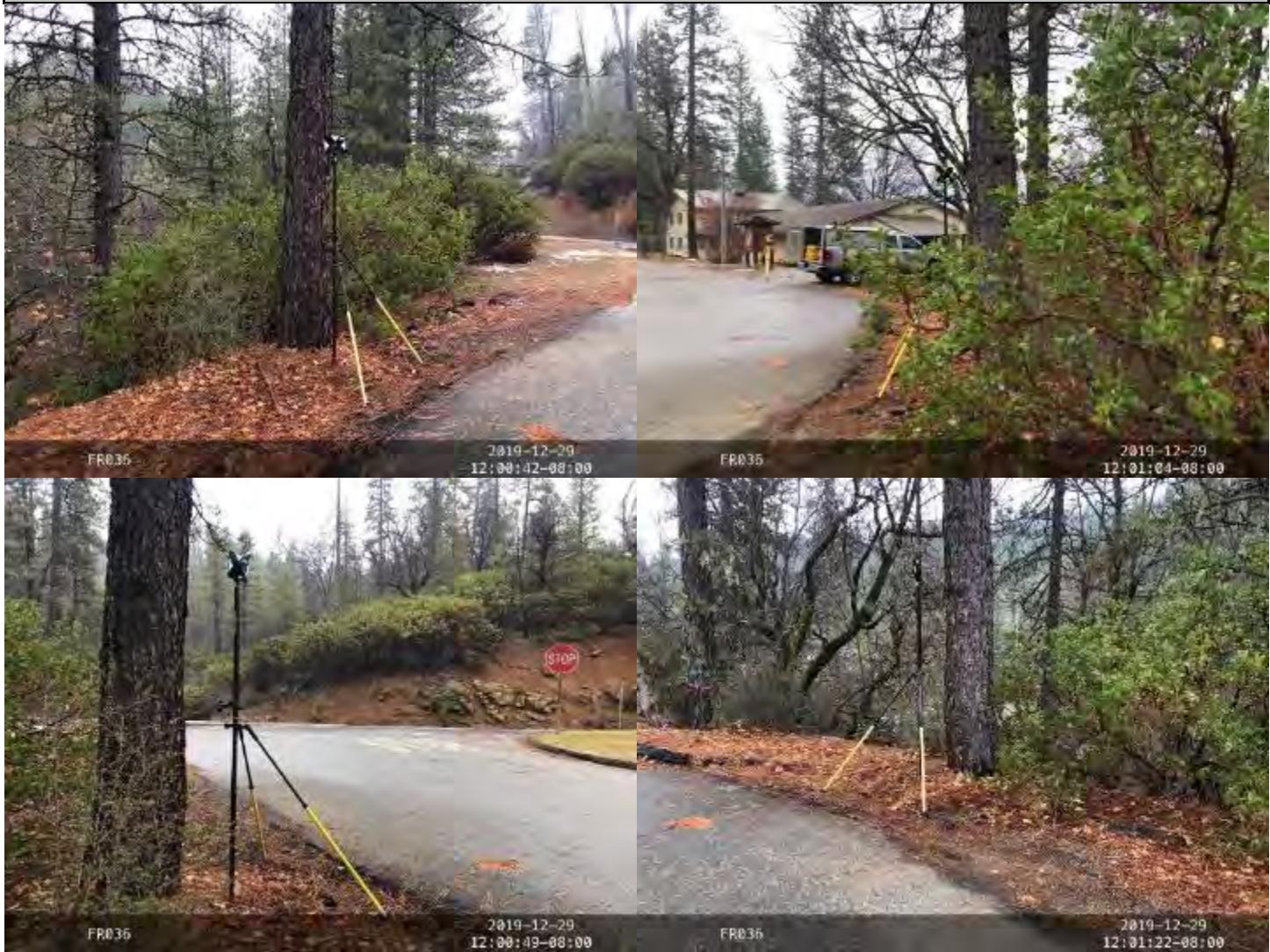
	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4468131.144	502885.925	814.130

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR037
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Grays Peak

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4482351.688	607150.691	1240.703

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.700

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.019
RMSE Z	0.019
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR038
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Lyonsville

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4466862.238	607617.845	1166.294

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.700m

Date (MM-DD-YYYY)	01/02/2020
RMSE Hz	0.018
RMSE Z	0.018
GPS Method	Total Station

PHOTOS:





Point ID	FR039
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Girard Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4554955.685	569609.326	800.642

Operator	Emily Gottesfeld
Receiver Model	Trimble M3 Total Station
Receiver S/N	
Antenna Height	2.000m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	Total Station

PHOTOS:





Point ID	FR040
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Tombstone Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4550915.826	556208.141	566.769

Operator	Emily Gottesfeld
Receiver Model	Trimble M3 Total Station
Receiver S/N	
Antenna Height	1.650m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.022
RMSE Z	0.026
GPS Method	Total Station

PHOTOS:

Azimuth: 29° (N)
Time: 10-25-2019 12:51:21
Note: FR040



Azimuth: 75° (E)
Time: 10-25-2019 12:51:47
Note: FR040



Azimuth: 297° (NW)
Time: 10-25-2019 12:52:10
Note: FR040



Azimuth: 338° (N)
Time: 10-25-2019 12:52:31
Note: FR040



Point ID	FR041
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Whisky Bill Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4542266.885	533875.952	884.169

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR042
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Trinity Center

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4535264.678	523535.837	905.394

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR043
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	O'Brien

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4514064.031	555661.663	332.301

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.700m

Date (MM-DD-YYYY)	01/06/2020
RMSE Hz	0.017
RMSE Z	0.017
GPS Method	Total Station

PHOTOS:





Point ID	FR044
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Mount Eddy

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4569211.168	549856.47	1168.908

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/06/2020
RMSE Hz	0.013
RMSE Z	0.012
GPS Method	TOTAL STATION

PHOTOS:





Point ID	FR045
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEDRICK

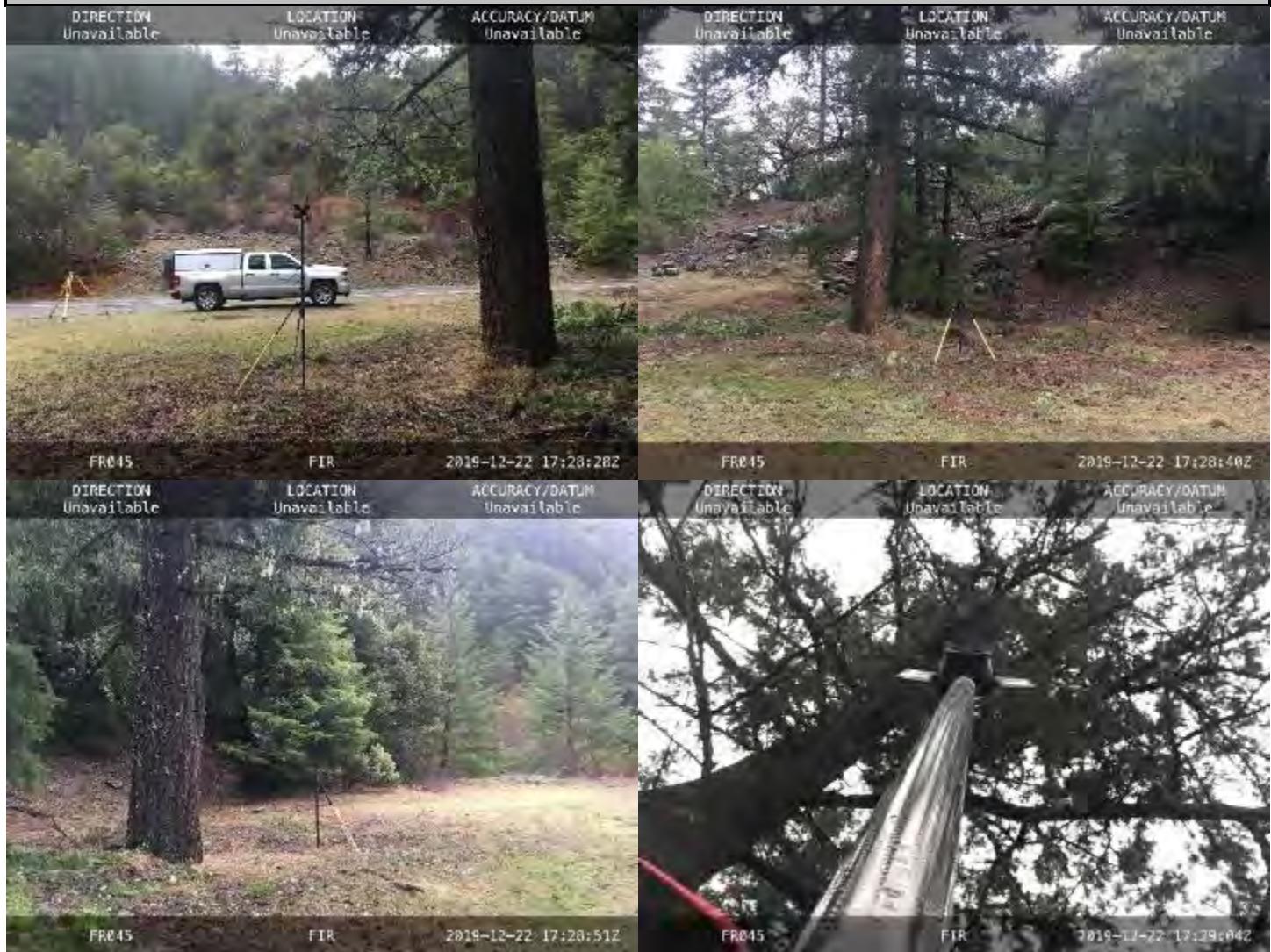
	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4520662.785	495865.144	660.745

Operator	Casey Broderick
Receiver Model	
Receiver S/N	
Antenna Height	2.115 Meters

Date (MM-DD-YYYY)	12/22/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	NIKON TOTAL STATION

PHOTOS:



Point ID	FR046
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEL LOMA

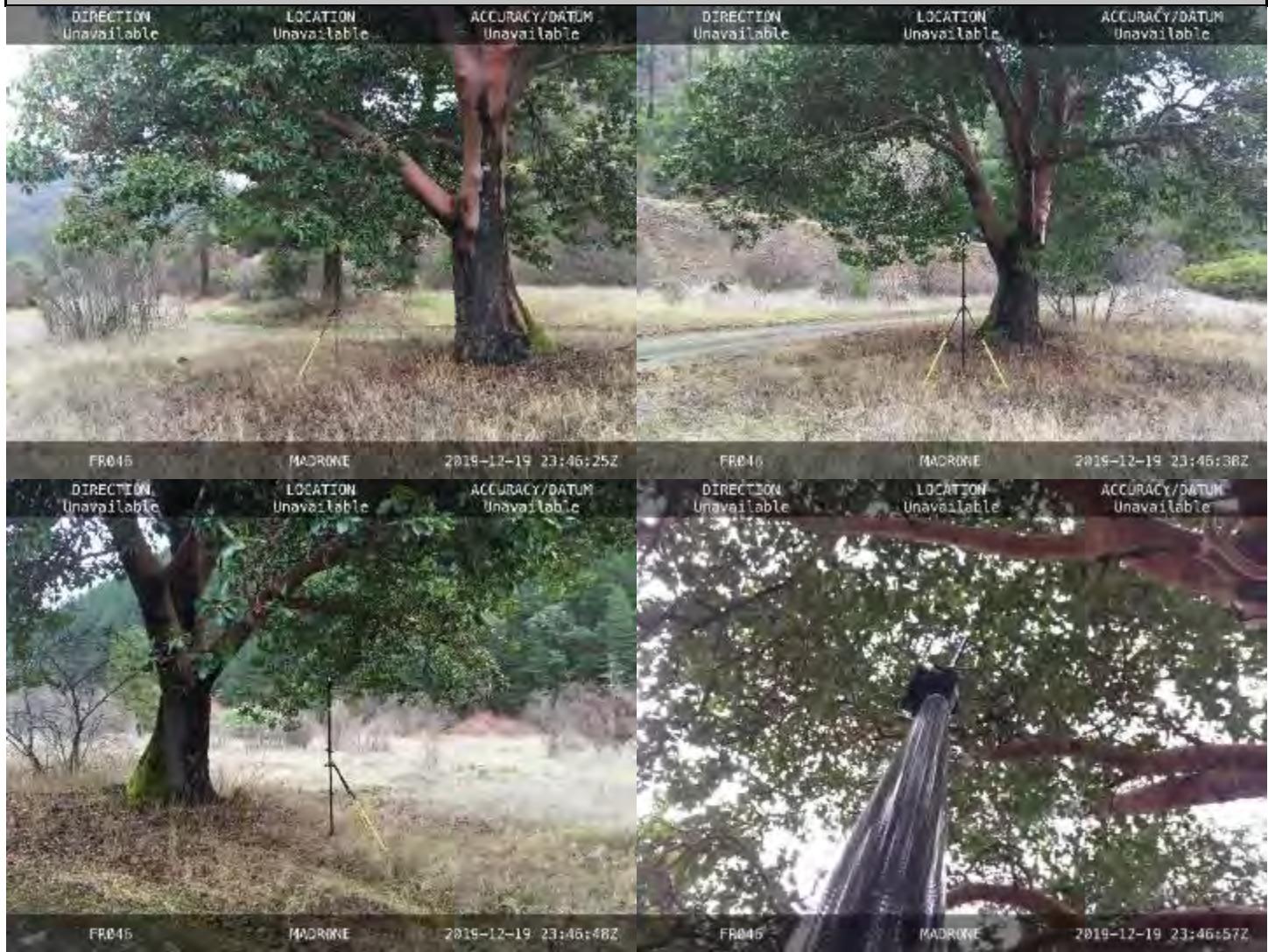
	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4513729.882	472341.395	337.430

Operator	Casey Broderick
Receiver Model	
Receiver S/N	
Antenna Height	2.115 Meters

Date (MM-DD-YYYY)	12/19/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	NIKON TOTAL STATION

PHOTOS:



Point ID	FR047
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Scott Mountain

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4567832.745	522890.664	1939.101

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/23/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	Total Station

PHOTOS:



Point ID	FR048
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Elk Spring

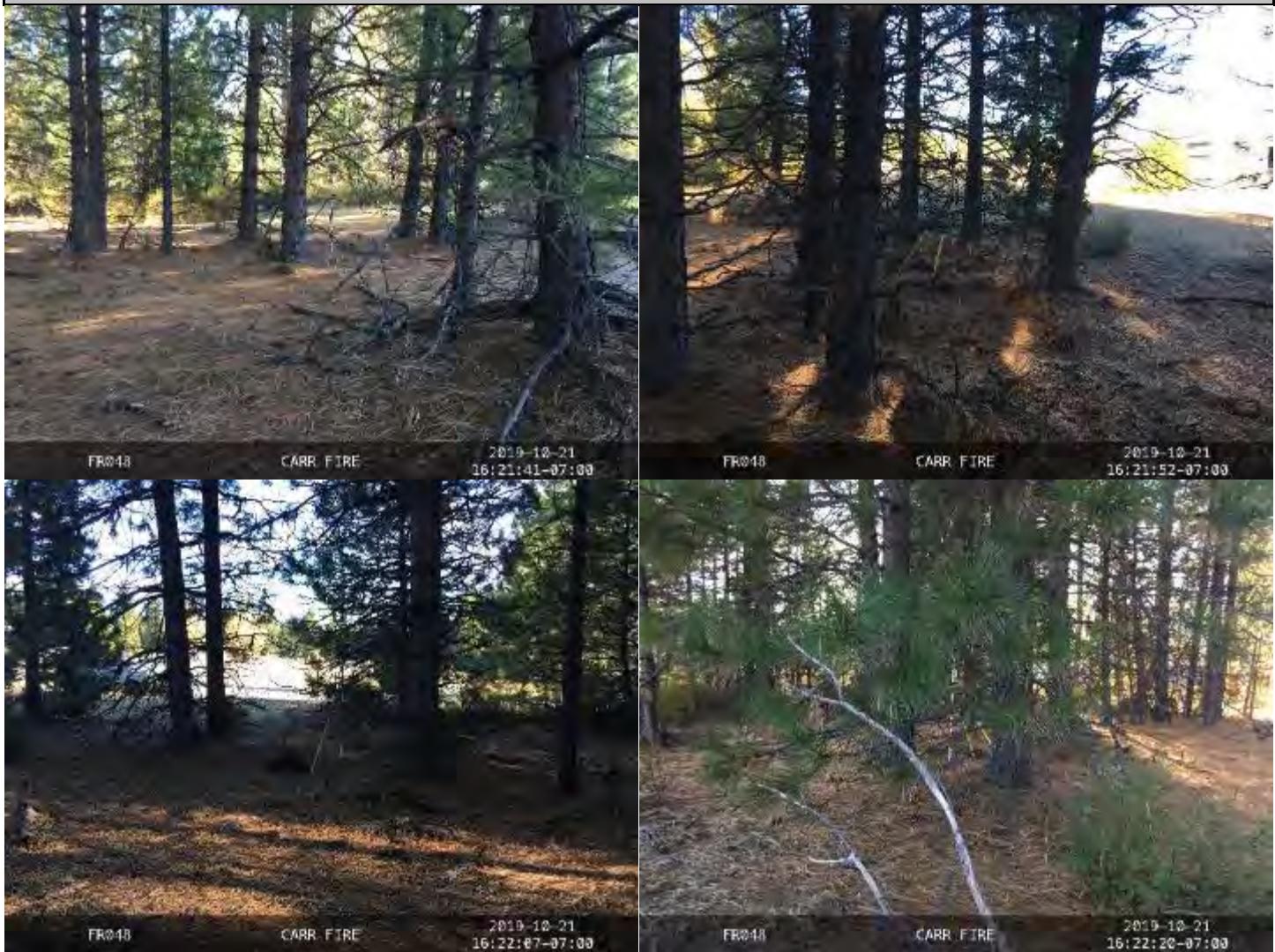
Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4568465.382	573772.913	1034.305

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/21/2019
RMSE Hz	0.017
RMSE Z	0.019
GPS Method	Total Station

PHOTOS:



Point ID	FR049
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Carville

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4549991.048	524675.252	780.856

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5"P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/25/2019
RMSE Hz	0.018
RMSE Z	0.018
GPS Method	Total Station

PHOTOS:



Point ID	FR050
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	HELENA

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meters

Northing	Easting	Elevation
4512983.537	488822.263	418.985

Operator	Casey Broderick
Receiver Model	
Receiver S/N	
Antenna Height	2.115 Meters

Date (MM-DD-YYYY)	12/20/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	NIKON TOTAL STATION

PHOTOS:



Point ID	FR051
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	McCloud

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4576922.51	562968.504	1927.797

Operator	Marc Nabelek
Receiver Model	Nikon NPL322+5" P
Receiver S/N	
Antenna Height	1.615m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.022
RMSE Z	0.026
GPS Method	Total Station

PHOTOS:



Point ID	FR052
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	Dunsmuir

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4565266.754	561210.494	803.712

Operator	Emily Gottesfeld
Receiver Model	Trimble M3 Total Station
Receiver S/N	
Antenna Height	1.650m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.023
RMSE Z	0.026
GPS Method	Total Station

PHOTOS:



Azimuth: 9° (N)
Time: 10-24-2019 17:18:57
Note: FR052



Azimuth: 63° (E)
Time: 10-24-2019 17:19:15
Note: FR052



Azimuth: 153° (S)
Time: 10-24-2019 17:19:27
Note: FR052



Azimuth: 230° (W)
Time: 10-24-2019 17:20:11
Note: FR052



Point ID	FR053
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Bohemotash Mountain

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4521986.215	550222.528	326.630

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.700m

Date (MM-DD-YYYY)	01/05/2020
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	Total Station

PHOTOS:





Point ID	FR054
Project No.	R035390
Project Name	USGS CARR-HIRZ FIRE
State	CALIFORNIA
County	TRINITY
Quad	DEDRICK

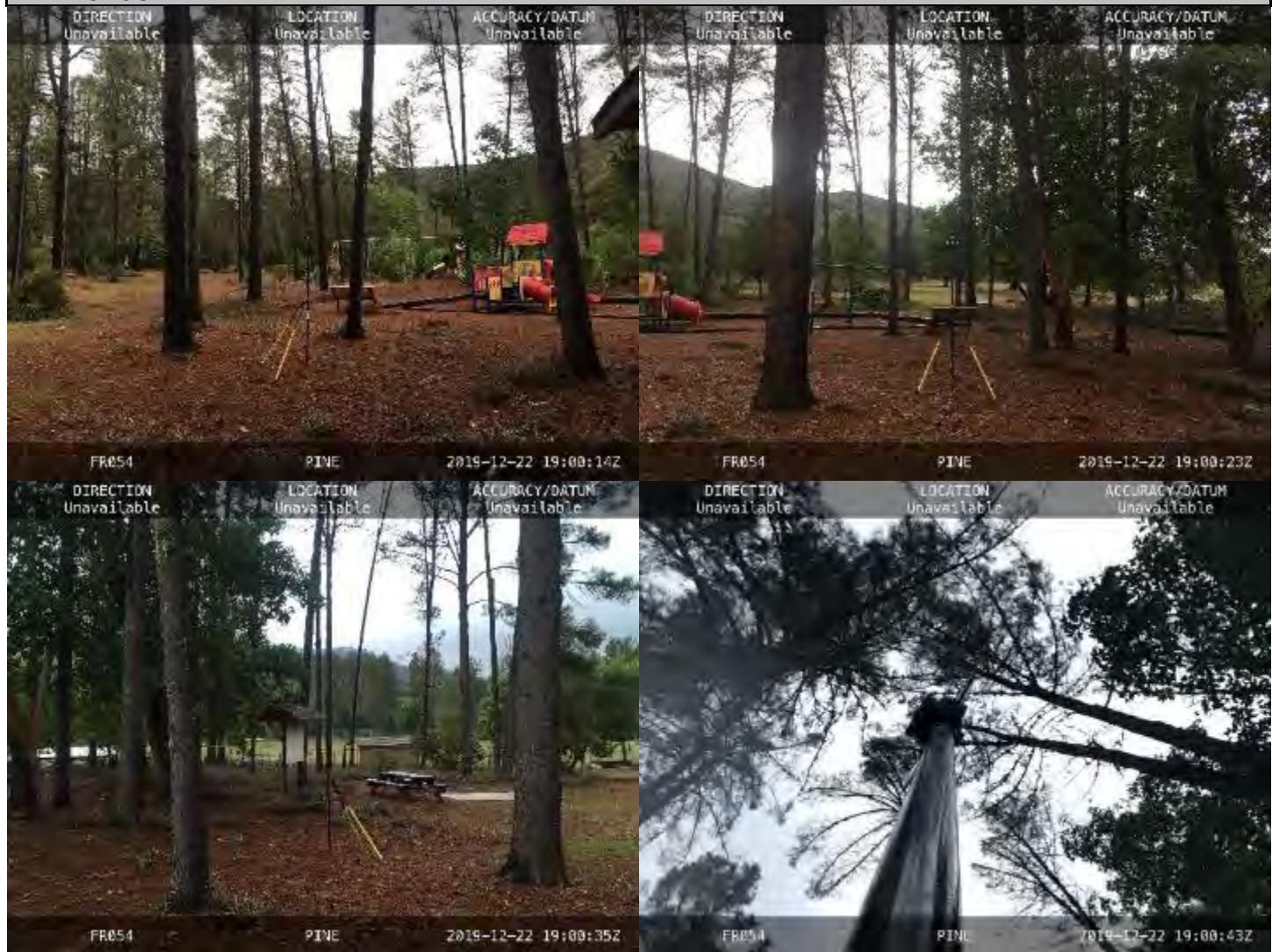
Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4508620.136	496322.661	491.920

Operator	Casey Broderick
Receiver Model	
Receiver S/N	
Antenna Height	2.115 Meters

Date (MM-DD-YYYY)	12/22/2019
RMSE Hz	0.012
RMSE Z	0.011
GPS Method	NIKON TOTAL STATION

PHOTOS:



Point ID	FR055
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Trinity
Quad	Weaverville

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4506412.282	506382.395	590.620

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	01/03/2020
RMSE Hz	0.017
RMSE Z	0.020
GPS Method	TOTAL STATION

PHOTOS:



Point ID	FR056
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Hagaman Gulch

Aerial Target
LiDAR Ground Control
X LiDAR QC Point
New Control
Photo ID
Published Control

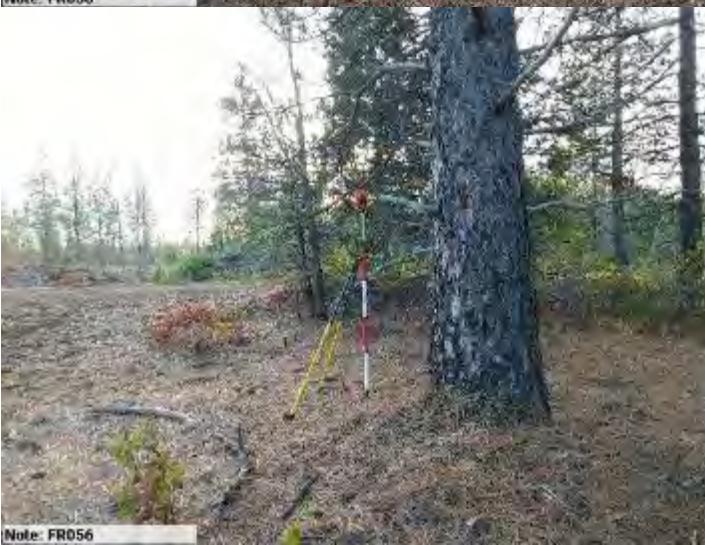
Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4488014.456	599143.31	1160.907

Operator	Gabe Rietmann
Receiver Model	Nikon NPL 322+
Receiver S/N	N/A
Antenna Height	1.700

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.017
RMSE Z	0.018
GPS Method	TOTAL STATION

PHOTOS:





BRUSHLAND POINT LOG SHEETS



Point ID	SH001
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Siskiyou
Quad	McCloud

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4576919.766	562900.686	1925.426

Operator	Marc Nabelek
Receiver Model	Trimble R8-3
Receiver S/N	R8_0453
Antenna Height	2.25m

Date (MM-DD-YYYY)	10/20/2019
RMSE Hz	0.017
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	SH002
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Montgomery Creek

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4516054.46	588910.98	623.115

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/28/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS





Point ID	SH003
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Montgomery Creek

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4515529.863	588113.637	604.544

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/28/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	SH004
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Oak Run

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4504269.744	580880.77	446.044

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	SH005
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Clough Gulch

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4486549.683	575766.747	269.379

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	SH006
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Bella Vista

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4510089.37	566186.642	349.116

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/30//2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	SH007
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Miller Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4500926.771	600726.707	1130.826

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.016
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	SH008
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Hagaman Gulch

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4486356.222	604333.915	1217.892

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	SH009
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Hagaman Gulch

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4488002.324	599176.755	1163.847

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	SH010
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Tuscan Buttes NE

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4482403.051	584312.517	550.205

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	SH011
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Cottonwood

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4481316.872	555370.214	140.677

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995m

Date (MM-DD-YYYY)	10/24/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	SH012
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4478410.028	539587.815	314.762

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/30/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Point ID	SH013
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Ono

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4481862.782	538372.245	333.595

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/30/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	SH014
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Platina

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4467862.082	509716.435	709.694

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	SH015
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Arbuckle Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4474437.347	519778.491	440.151

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	SH016
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Arbuckle Mountain

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4470564.979	513908.852	678.133

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/28/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Point ID	SH017
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Platina

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4468172.902	510094.757	755.818

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/29/2019
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	SH018
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Shasta
Quad	Shasta Olinda

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4480346.385	542398.183	243.782

Operator	Ashley Reade
Receiver Model	Trimble R8-3
Receiver S/N	R8_3666
Antenna Height	2.000 m

Date (MM-DD-YYYY)	12/31/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	SH019
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Dales

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4459176.824	574667.159	268.194

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/29/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	SH019a
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Bend

Aerial Target
LiDAR Ground Control
X
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4457884.274	573820.53	268.802

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS





Point ID	SH020
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Inskip Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4464316.192	589715.331	550.318

Operator	Scott White
Receiver Model	Trimble R10
Receiver S/N	R10_8783
Antenna Height	1.995M

Date (MM-DD-YYYY)	10/26/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS





Point ID	SH021
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Manton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOID12B
Meter

Northing	Easting	Elevation
4476569.671	595929.726	617.315

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/27/2019
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	SH022
Project No.	R035390
Project Name	USGS Carr-Hirz Fire
State	California
County	Tehama
Quad	Finley Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM Zone 10
NAVD88
GEOD12B
Meter

Northing	Easting	Elevation
4467488.836	603580.081	1007.435

Operator	Gabe Rietmann
Receiver Model	Trimble R8-2
Receiver S/N	R8_9860
Antenna Height	1.995

Date (MM-DD-YYYY)	12/27/2019
RMSE Hz	0.014
RMSE Z	0.013
GPS Method	RTK

PHOTOS:

