



July 12, 2017

**Survey Report** of  
LiDAR Calibration & Quality Control Points

USGS Contract: G16PC00016

NY\_FEMA R2 LiDAR\_2016\_D17

USGS Task Order: G17PD00039

Presented to:



Presented By:





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### Introduction

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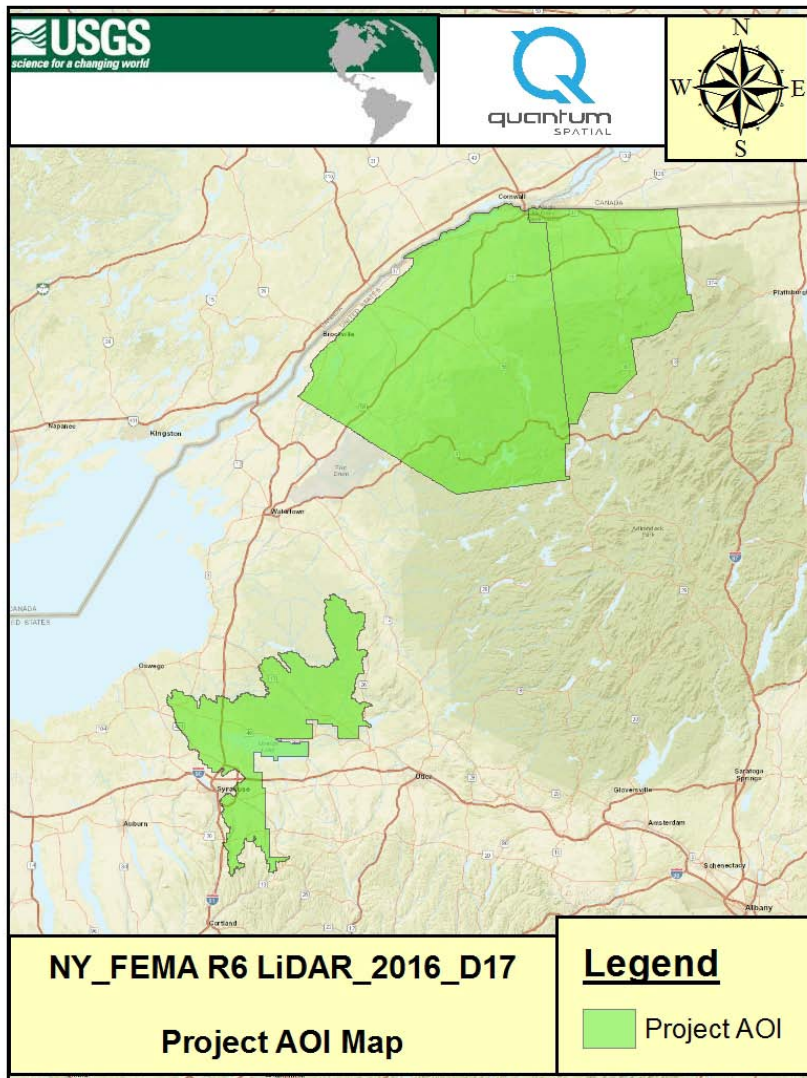
Quantum Spatial, Inc. was contracted by USGS under task order G17PD00039 to survey LiDAR calibration and quality control points in support of NY\_FEMA R2 LiDAR\_2016\_D17. This is the report of the technical approach used and detail of each point surveyed.

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### Project Area

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The Project Areas, shown in the figure below, consists of approximately 4,774 square miles.





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### Technical Approach to Land Cover Validation Point Selection

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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 that 114 Non-Vegetated Vertical Assessment (NVA) and 84 Vegetated Vertical Assessment (VVA) points are required for this 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:

<u>NVA Class</u>	<u># of Points</u>	<u>VVA Class</u>	<u># of Points</u>
Bare Earth	73	Forested	59
Urban Area	41	Tall Weeds/Crops	7
		Brushland/Trees	18

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.

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### Survey Accuracy Requirements

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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.



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## Field Survey Methodology

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Date Range: May 10, 2017 – June 9, 2017; July 7, 2017 – July 10, 2017

### Equipment Used:

Field crews used Trimble R8 dual frequency GNSS receivers as base stations and rovers.

### GNSS Methodology:

A combination of RTN GPS, fast static GPS, and traditional surveying methods were used during this project. RTN surveys using the New York State Spatial Reference Network (NYSNet) was used as the primary method of data collection. In weak cell phone areas, the fast static GPS method consisting of collecting a minimum 30 minutes of static data was used. The data was downloaded and baselines processed to NGS CORS base stations.

In areas under the tree canopy, traditional surveying methods were used. Pairs of points were collected in open areas using GPS methods. The points were occupied using a total station to survey the forested check points. Multiple observations were collected at each check point and the coordinates were compared and averaged.

All of the GPS information was downloaded, processed and analyzed using Trimble Business Center processing software. Two separate networks were formed according to the New York State Plane – East and Central zone delivery areas.

After reviewing the locations of the surveyed points, it was decided that 12 additional checkpoints should be acquired to better represent the AOI. The field crew performed this survey in July.

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## Overall Project Accuracy Statement

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All point coordinates have been reported in the North American Datum of 1983 (NAD83 2011). Points are projected in New York State Plane coordinates – East zone in meters for points in Franklin and Saint Lawrence Counties and in New York State Plane coordinates – Central zone in meters for points in the Oneida HUC8 Watershed. All 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 0.008 meter.

Average Elevation RMSE is 0.010 meter.

Average 3 dimensional RMSE is 0.013 meter.

NVA Points

Average Horizontal RMSE is 0.008 meter.

Average Elevation RMSE is 0.009 meter.

Average 3 dimensional RMSE is 0.012 meter.

VVA Points

Average Horizontal RMSE is 0.014 meter.

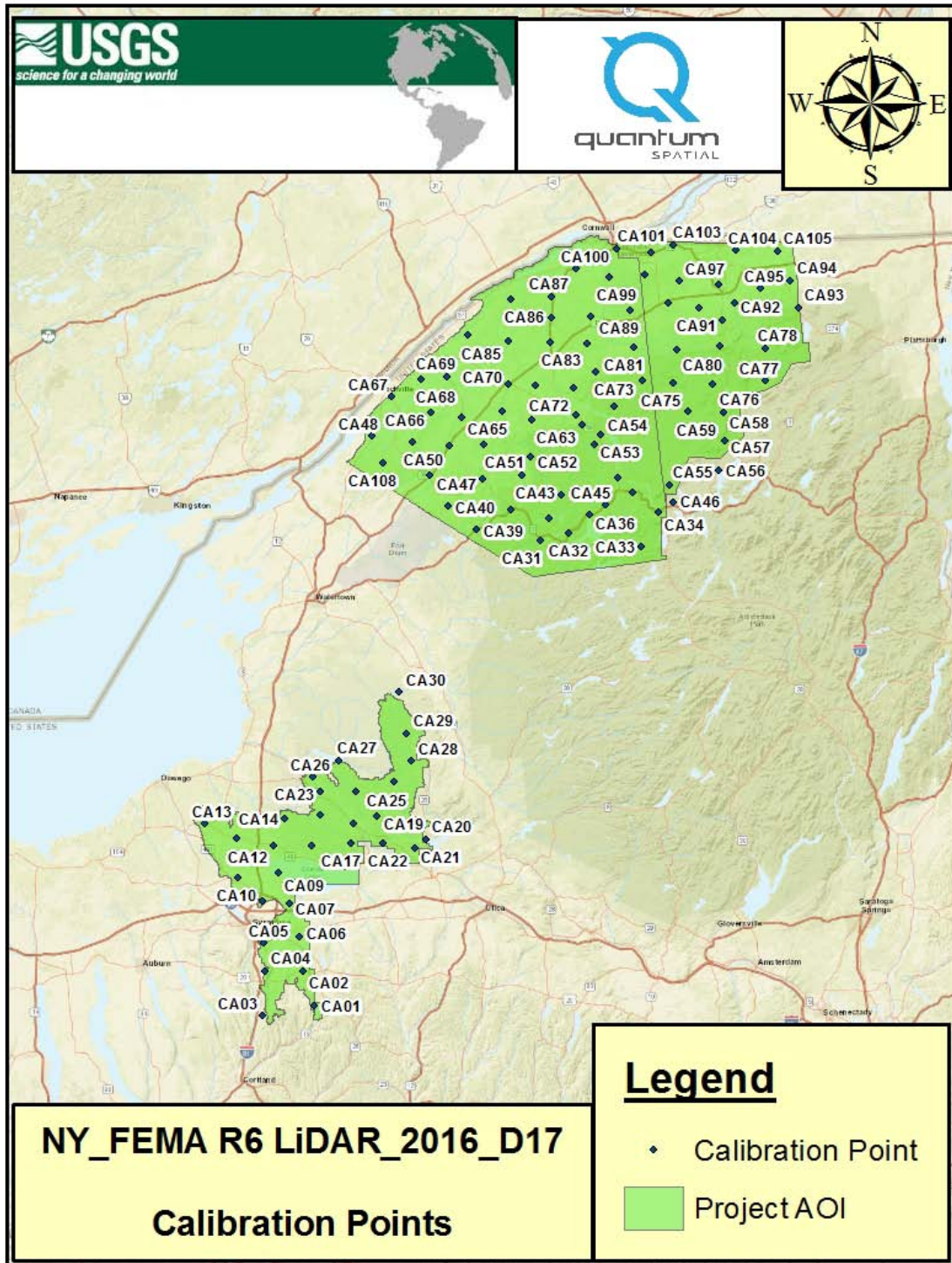
Average Elevation RMSE is 0.013 meter.

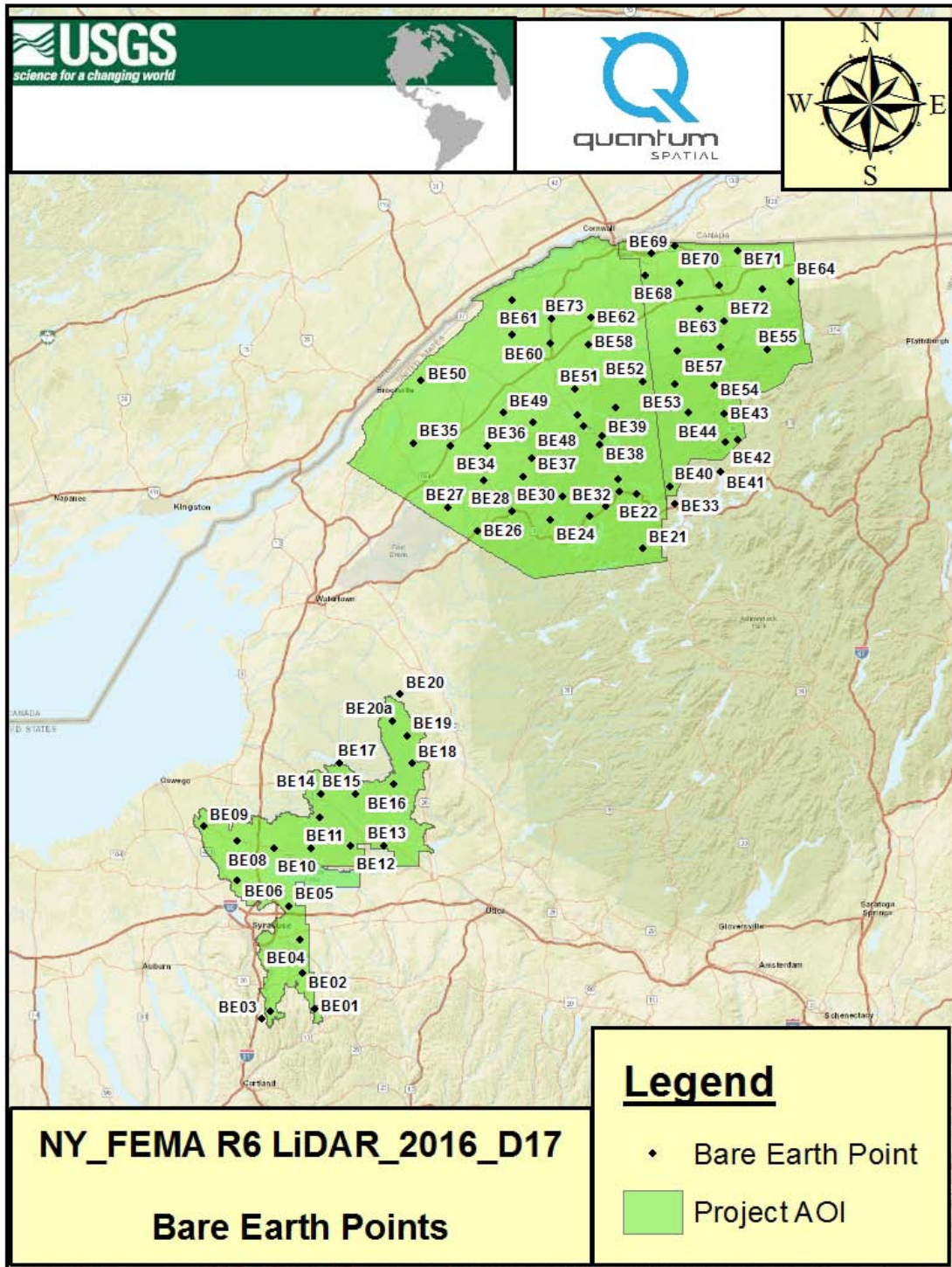
Average 3 dimensional RMSE is 0.019 meter.

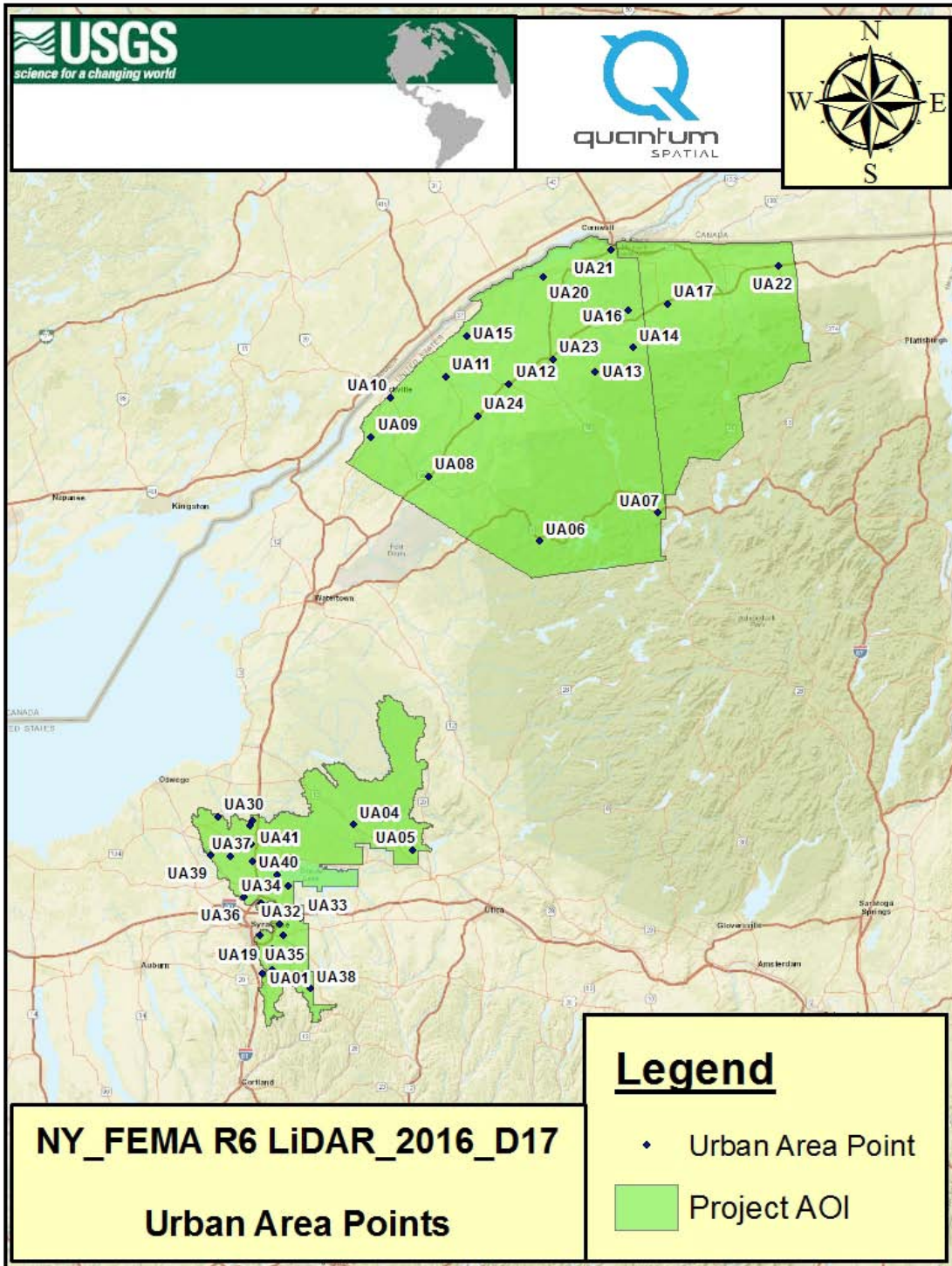


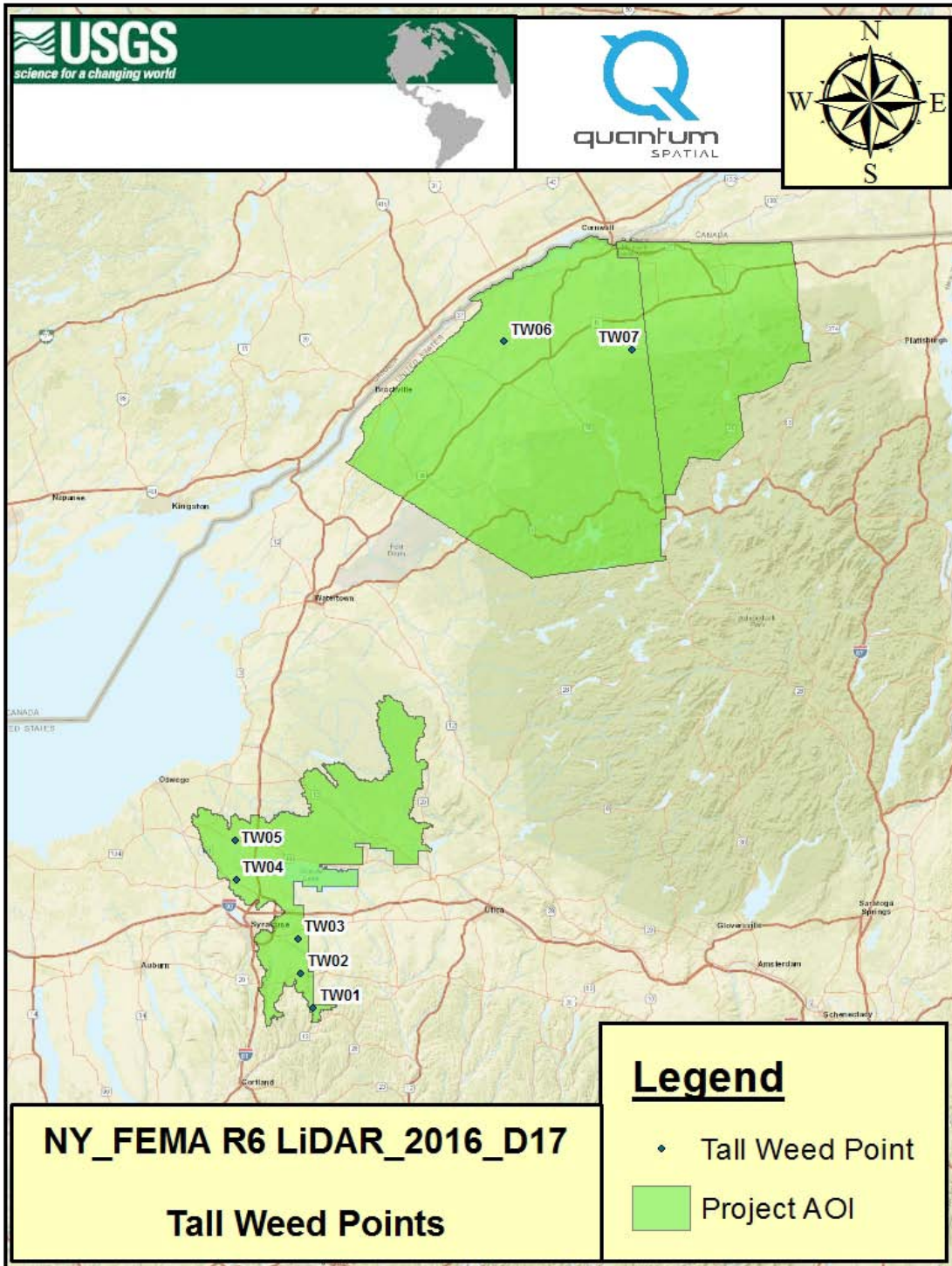
*Project AOI & Point Location Maps*

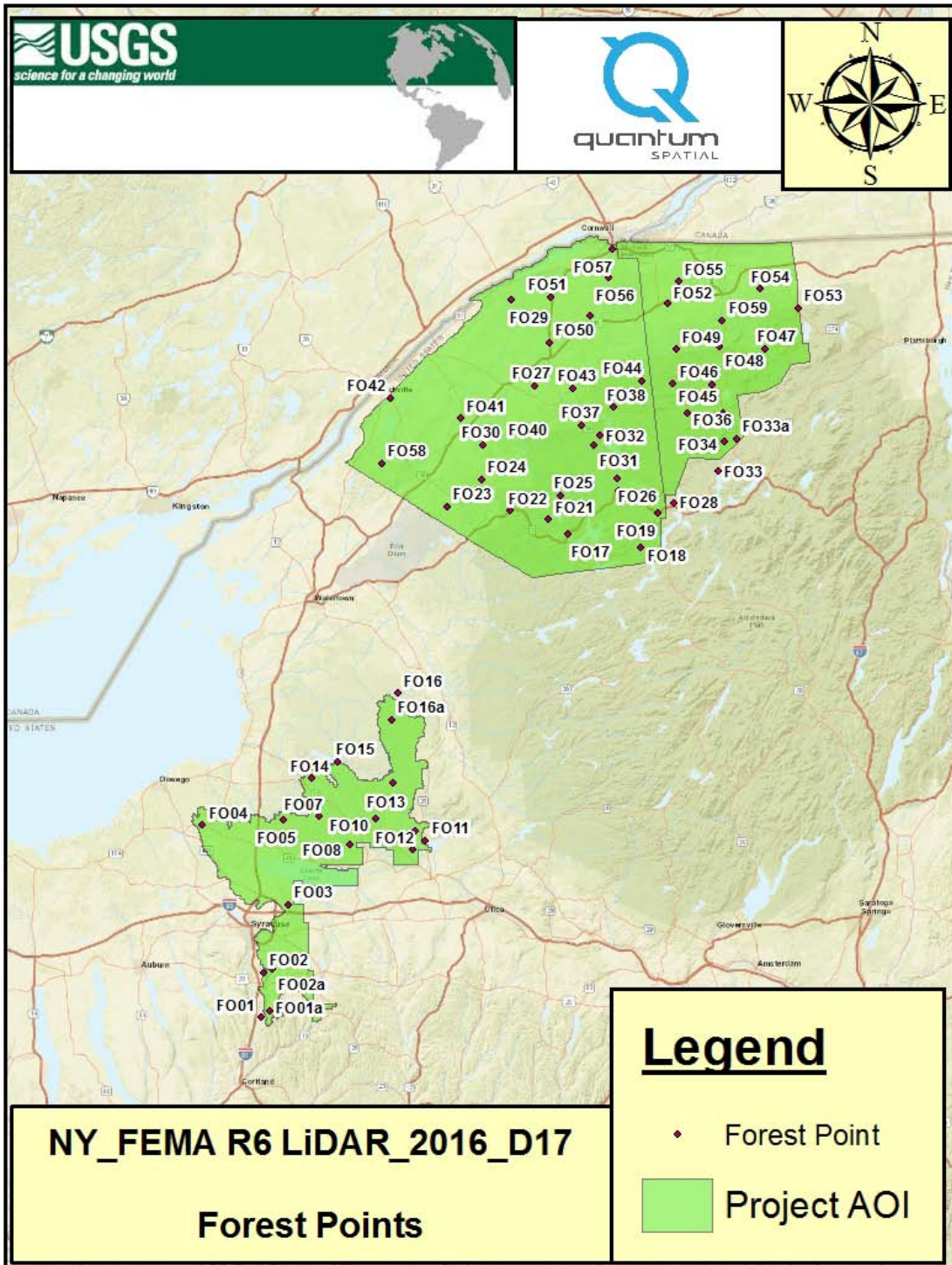


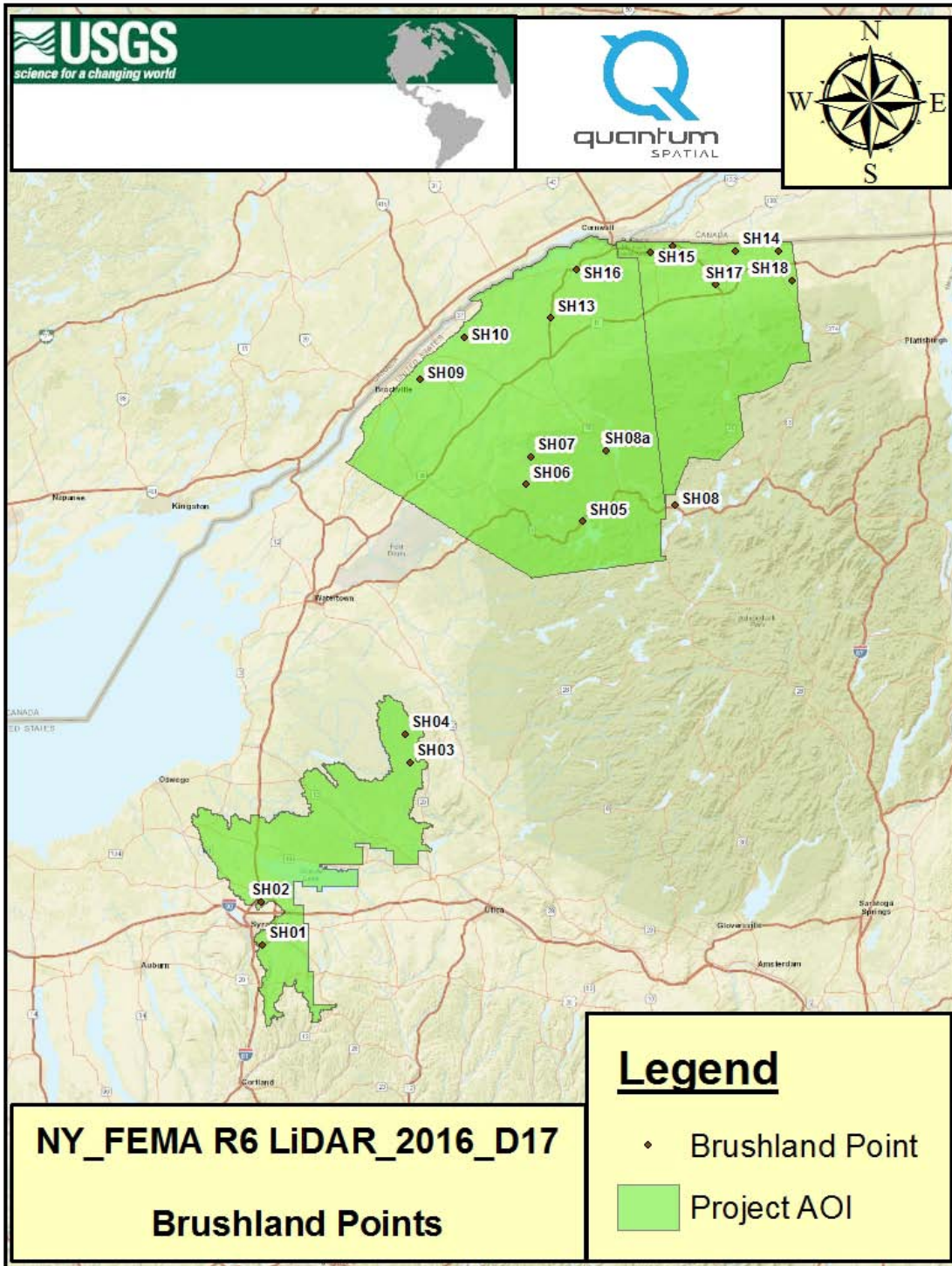














*Final Point Coordinates  
New York State Plane - East Zone*



*Calibration Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - EAST ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
CA31	590746.174	107489.411	453.857
CA32	593034.875	116410.029	442.346
CA33	588647.876	139585.214	528.821
CA34	599423.795	144770.929	479.760
CA35	605550.381	136730.665	480.127
CA36	598566.722	123063.237	456.196
CA37	597524.059	110523.033	420.941
CA38	600248.436	98340.573	304.334
CA39	594281.495	87476.115	240.462
CA40	601795.142	78562.253	209.815
CA41	610342.270	89543.660	200.340
CA42	611208.775	101897.697	268.564
CA43	605114.724	114446.498	429.064
CA44	610301.761	132044.210	436.101
CA45	601630.553	128193.877	453.822
CA46	602547.440	149776.965	483.159
CA47	611343.060	72822.368	133.487
CA48	623870.097	54598.133	118.115
CA49	620924.908	79193.481	124.072
CA50	622019.551	67425.981	115.442
CA51	621186.152	89752.055	167.878
CA52	617033.426	104783.755	247.782
CA53	620840.268	124743.133	435.825
CA54	623932.139	126822.141	398.289
CA55	608071.347	148349.935	464.440
CA56	612423.324	164154.859	496.708
CA57	621775.563	165934.594	493.239
CA58	630702.948	165548.729	504.698





CA59	630968.220	154302.009	474.820
CA60	627197.672	121117.087	365.038
CA61	632761.411	131168.798	394.933
CA62	630266.990	119100.995	282.128
CA63	628608.001	105179.848	233.667
CA64	631371.999	95950.378	159.573
CA65	629502.881	82967.898	102.397
CA66	631242.039	73343.105	101.963
CA67	636183.989	60945.027	90.498
CA68	641941.415	70218.015	113.645
CA69	642590.229	78400.972	90.308
CA70	640164.253	97913.154	115.946
CA71	639704.441	106420.538	147.334
CA72	638695.906	118418.764	270.022
CA73	643844.642	125392.020	271.731
CA74	641040.148	140023.058	432.523
CA75	639968.728	149912.072	437.187
CA76	639707.213	162270.620	444.695
CA77	640545.892	178944.451	511.902
CA78	650952.857	179169.484	461.236
CA79	651498.916	164530.879	463.959
CA80	650743.290	151018.423	423.295
CA81	651370.940	137414.321	236.560
CA82	652811.141	122837.808	127.218
CA83	653185.848	111006.638	111.952
CA84	653678.305	97842.773	97.225
CA85	655484.624	85083.447	98.704
CA86	666677.269	98928.054	86.219
CA87	667495.957	111548.278	72.467
CA88	661404.519	123776.573	112.145
CA89	663227.920	136212.091	103.917
CA90	665198.064	148312.314	136.175
CA91	663846.121	158077.128	237.219
CA92	665301.381	169316.425	304.326
CA93	663707.955	189449.368	406.392
CA94	672141.441	186996.120	406.142
CA95	669630.567	177676.929	363.203
CA96	671105.443	164297.802	195.440
CA97	672136.356	151820.117	91.786
CA98	674435.431	141069.763	65.745
CA99	673593.498	129741.388	65.565



CA100	676222.137	119337.907	72.046
CA101	682689.699	132131.430	59.159
CA102	681267.323	142991.996	67.104
CA103	683508.052	150196.364	52.345
CA104	681779.415	169909.081	94.512
CA105	681385.359	182882.379	184.032
CA106	659896.912	165581.492	386.133
CA107	660872.141	111431.376	100.781
CA108	615454.543	58173.133	94.526



*Bare Earth Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - EAST ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
BE21	588661.543	139604.273	528.496
BE22	605681.970	137843.837	522.877
BE23	598709.411	123156.092	456.752
BE24	597553.520	110547.906	420.853
BE25	600285.325	98363.998	304.778
BE26	594309.849	87510.196	239.895
BE27	601831.944	78479.808	209.347
BE28	610299.997	89514.041	200.554
BE29	611226.873	101955.103	270.006
BE30	605069.130	114410.857	427.247
BE31	610266.804	132012.047	435.390
BE32	601641.829	128206.119	454.481
BE33	602556.015	149760.801	483.920
BE33a	606299.621	132347.685	466.933
BE34	620959.447	79203.435	122.652
BE35	621975.930	67514.518	118.017
BE36	621194.483	91062.044	213.000
BE37	617035.378	104927.281	247.786
BE38	621373.516	126229.449	404.486
BE39	623885.228	126837.050	398.052
BE40	608048.730	148360.798	464.142
BE41	612465.521	164164.918	497.184
BE41a	622498.515	169716.178	507.840
BE42	621778.543	165987.191	494.652
BE43	630706.099	165573.570	504.364
BE44	630967.476	154288.911	474.719
BE45	627249.537	121153.542	365.225
BE46	632740.842	131187.997	394.785
BE47	630438.727	119200.821	282.397



BE48	628503.785	105287.308	230.324
BE49	631377.641	95919.715	159.176
BE50	641733.183	70222.540	118.661
BE51	638721.038	118378.545	267.995
BE52	641048.822	139996.291	432.576
BE53	639982.977	149885.687	437.235
BE54	639679.705	162260.997	444.377
BE55	650915.285	179170.941	461.434
BE56	651514.559	164518.697	463.068
BE57	650763.960	151016.334	422.815
BE58	652840.760	122841.468	127.240
BE59	653177.788	110960.768	111.719
BE60	655795.510	98877.406	89.658
BE61	666735.557	98906.915	84.596
BE62	661412.083	123832.239	110.710
BE63	663860.832	158103.436	236.980
BE64	672105.792	186717.656	408.753
BE65	669667.872	177668.832	362.994
BE66	671062.138	164338.966	195.947
BE67	672105.426	151772.318	90.808
BE68	674446.679	141068.748	65.546
BE69	681146.813	143004.853	67.008
BE70	683506.291	150213.812	51.930
BE71	681769.791	169921.491	94.574
BE72	659807.138	165617.814	389.446
BE73	660901.736	111371.201	103.255



*Urban Area Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - EAST ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
UA06	590703.324	107495.379	453.705
UA07	599455.557	144806.710	480.149
UA08	611345.452	72739.455	132.693
UA09	623802.957	54675.209	118.651
UA10	636161.616	60873.841	91.764
UA11	642585.076	78307.878	90.003
UA12	640235.276	98315.682	115.814
UA13	643847.616	125368.943	272.383
UA14	651357.395	137401.902	237.362
UA15	655443.771	85031.777	98.240
UA16	663201.046	135973.113	102.199
UA17	665207.351	148336.864	136.975
UA18	676213.574	119296.708	70.682
UA20	673713.152	109217.380	60.053
UA21	682171.957	130601.811	58.176
UA22	677004.503	183280.663	281.779
UA23	647826.593	112077.310	131.471
UA24	630090.734	88390.197	135.468



*Tall Weed Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - EAST ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
TW06	653645.443	96857.416	98.617
TW07	650859.119	137025.705	247.540



*Forest Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - EAST ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
FO17	593015.082	116459.411	446.394
FO18	588632.834	139594.874	528.609
FO19	599423.062	144721.167	479.875
FO20	605593.503	136712.712	479.628
FO21	597483.017	110491.981	422.779
FO22	600282.464	98304.202	304.768
FO23	601877.138	78493.583	211.519
FO24	610347.554	89513.478	199.876
FO25	605094.552	114399.213	429.377
FO26	610266.690	132108.605	436.878
FO27	639730.843	106408.765	147.945
FO28	602526.251	149782.806	484.006
FO28a	606343.443	132425.547	470.368
FO29	666682.964	98969.078	86.087
FO30	621210.266	89775.140	167.735
FO31	620812.333	124758.795	437.922
FO32	623919.991	126784.867	398.519
FO33	612431.928	164111.386	496.578
FO33a	622525.675	169720.200	509.539
FO34	621809.562	165959.368	492.983
FO35	630753.766	165543.799	504.408
FO36	630947.095	154288.095	473.954
FO37	627225.275	121097.672	365.020
FO38	632774.072	131187.874	395.732
FO39	661427.054	123827.891	110.379
FO40	631335.731	95940.897	159.539
FO41	629498.406	83000.600	104.030



FO42	636149.378	60855.890	91.392
FO43	638699.584	118385.170	267.904
FO44	641003.278	139998.772	435.697
FO45	639977.172	149871.750	436.012
FO46	639657.392	162261.103	443.761
FO47	650889.927	179146.595	462.058
FO48	651516.409	164499.539	463.318
FO49	650769.361	150997.124	422.407
FO50	653118.956	110964.462	111.495
FO51	667553.464	111502.518	72.384
FO52	665178.035	148364.574	138.370
FO53	663708.182	189478.682	406.914
FO54	669653.276	177639.667	362.704
FO55	672174.370	151799.390	90.746
FO56	673617.657	129701.885	66.251
FO57	682448.771	131144.238	56.494
FO58	615432.912	58152.007	93.521
FO59	659911.933	165593.997	386.148





*Brushland Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - EAST ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
SH05	596821.483	121036.879	450.755
SH06	608564.432	103248.065	282.591
SH07	617186.953	104994.733	247.547
SH08	601783.256	150343.292	485.151
SH08a	619134.075	128672.037	460.175
SH09	641954.440	70211.401	113.238
SH10	654950.379	84267.858	99.156
SH11	683365.017	150029.042	51.612
SH12	681449.715	183401.312	187.419
SH13	660850.304	111415.811	100.769
SH14	681751.529	169889.365	94.187
SH15	681254.239	142964.172	66.866
SH16	675926.603	119680.174	57.779
SH17	670995.251	163542.892	199.221
SH18	672201.682	187560.403	404.779



*Final Point Coordinates  
New York State Plane - Central Zone*



*Calibration Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - CENTRAL ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
CA01	314199.831	305820.698	393.870
CA02	324823.601	301779.834	379.558
CA03	310644.498	289229.235	375.944
CA04	324696.184	289786.682	398.919
CA05	333539.815	289487.121	169.394
CA06	335753.884	300709.254	256.898
CA07	346191.749	297133.788	127.660
CA08	346931.476	288896.141	125.015
CA09	355714.819	293551.185	121.271
CA10	353977.147	280844.215	121.946
CA11	364446.536	291955.606	120.244
CA12	366337.140	280216.255	129.801
CA13	370798.224	269834.368	148.121
CA14	373134.872	295252.492	182.308
CA15	364593.655	303859.227	181.810
CA16	374233.167	306365.256	223.569
CA17	365513.692	316180.084	154.894
CA18	371911.523	317150.873	161.579
CA19	374121.514	324428.897	275.076
CA20	367163.564	339921.104	192.497
CA21	364360.536	336335.247	146.922
CA22	365791.180	326487.299	136.875
CA23	381650.493	306322.470	182.864
CA24	381925.736	317600.106	293.842
CA25	385101.564	329398.495	402.701
CA26	386237.174	303746.733	199.734
CA27	391573.112	311996.400	286.507
CA28	391798.091	334950.096	495.043



CA29	400658.506	333132.884	541.087
CA30	413510.704	330641.587	580.519



*Bare Earth Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - CENTRAL ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
BE01	314161.790	305666.377	402.498
BE02	325314.694	301622.484	399.395
BE03	310557.177	289219.568	376.701
BE03a	313104.205	291753.806	378.456
BE04	335799.462	300786.513	257.636
BE05	346186.666	297153.709	127.932
BE06	353996.161	280786.170	121.669
BE07	364430.528	291978.082	121.154
BE08	366324.841	280204.992	128.945
BE09	370828.629	269841.877	148.358
BE10	364561.551	303843.580	181.278
BE11	374242.046	306402.608	223.487
BE12	365549.777	316088.825	154.408
BE13	365820.458	326481.484	136.956
BE14	381668.338	306325.197	183.065
BE15	382027.569	317525.975	294.579
BE16	385093.777	329383.003	402.738
BE17	391597.159	312078.213	286.872
BE18	391783.653	335003.395	496.544
BE19	400637.457	333139.755	540.784
BE20	413529.707	330639.215	580.193
BE20a	405181.141	328678.459	569.400



*Urban Area Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - CENTRAL ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
UA01	324682.813	289739.766	396.686
UA01a	325992.717	292523.466	221.452
UA02	346916.253	288769.376	125.176
UA03	355670.304	293565.718	121.492
UA04	372013.008	317236.314	161.365
UA05	364331.415	336297.505	146.921
UA19	336453.640	288467.579	174.659
UA25	332285.626	292427.695	232.404
UA26	332382.570	301048.626	235.754
UA27	359672.702	285949.078	119.351
UA28	353265.936	288046.770	131.235
UA29	371003.143	284971.016	147.153
UA30	373787.949	274582.229	142.759
UA31	364289.805	275348.926	127.595
UA32	340284.041	294686.599	130.735
UA33	342247.994	301358.029	128.305
UA34	352150.151	297149.262	120.148
UA35	336594.721	295917.184	131.387
UA36	348556.151	283412.049	136.411
UA37	361212.394	278836.468	130.911
UA38	320121.178	304782.170	280.545
UA39	361500.084	272517.309	118.184
UA40	365172.824	285365.841	138.838
UA41	372465.222	285656.841	144.859



*Tall Weed Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - CENTRAL ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
TW01	314213.472	305822.582	393.789
TW02	324830.199	301801.577	379.811
TW03	335702.217	300692.564	256.641
TW04	353969.951	280716.098	120.066
TW05	366351.435	280214.800	129.846



*Forest Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - CENTRAL ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
FO01	310554.354	289249.485	375.762
FO01a	312883.350	291978.262	377.930
FO02	324670.442	289778.461	399.457
FO02a	326013.473	292515.531	220.857
FO03	346209.657	297115.066	127.444
FO04	370820.558	269816.964	147.674
FO05	373097.959	295266.813	184.049
FO06	364583.934	303898.005	180.848
FO07	374210.796	306441.254	219.445
FO08	365502.237	316155.877	154.347
FO09	372082.402	317233.154	158.964
FO10	374097.933	324422.206	272.415
FO11	367193.863	339886.178	194.276
FO11a	370129.069	336932.705	300.374
FO12	364269.872	336306.012	146.390
FO13	385081.969	329417.355	402.077
FO14	386247.673	303720.652	199.722
FO15	391539.413	312019.918	285.612
FO16	413485.782	330660.553	580.046
FO16a	405200.061	328674.382	569.911





*Brushland Point Coordinates*

Horizontal Datum - NAD83(2011)  
NEW YORK STATE PLANE - CENTRAL ZONE  
Vertical Datum - NAVD 88  
Geoid - GEOID12B  
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
SH01	333534.696	289509.840	169.067
SH02	347167.958	288808.532	124.454
SH03	391778.984	334908.573	493.982
SH04	400647.822	333125.092	541.012



## Point Data and Accuracy Log Sheets



## Calibration Point Log Sheets



Point ID	CA01
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Deruyter

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
314199.831	305820.698	393.870

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	CA02
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Oran

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
324823.601	301779.834	379.558

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	CA03
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Tully

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
310644.498	289229.235	375.944

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-4-17
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	CA04
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Jamesville

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
324696.184	289786.682	398.919

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.008
RMSE Z	0.014
GPS Method	NYSNET

PHOTOS:





Point ID	CA05
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Syracuse East

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
333539.815	289487.121	169.394

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.010
RMSE Z	0.015
GPS Method	NYSNET

PHOTOS:







Point ID	CA06
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Manlius

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
335753.884	300709.254	256.898

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA07
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Syracuse East

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

Coordinate System	
	NAD83(2011)
	NY SPCS – CENTRAL ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
346191.749	297133.788	127.660

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.009
RMSE Z	0.016
GPS Method	NYSNET

PHOTOS:





Point ID	CA08
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Syracuse East

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
346931.476	288896.141	125.015

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA09
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Cicero

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

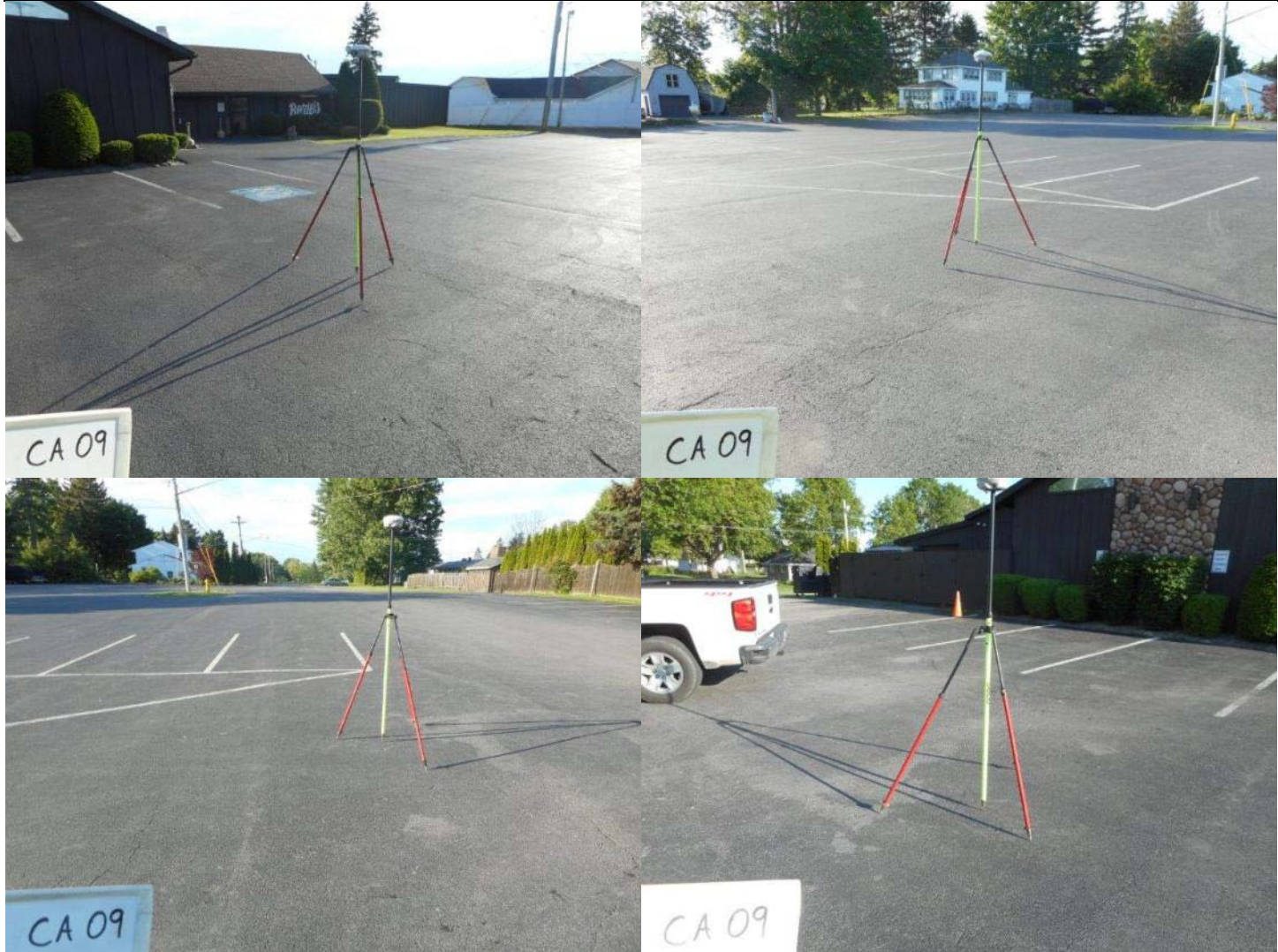
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
355714.819	293551.185	121.271

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-9-17
RMSE Hz	0.007
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	CA10
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Brewerton

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
353977.147	280844.215	121.946

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	CA11
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Mallory

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
364446.536	291955.606	120.244

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA12
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Central Square

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

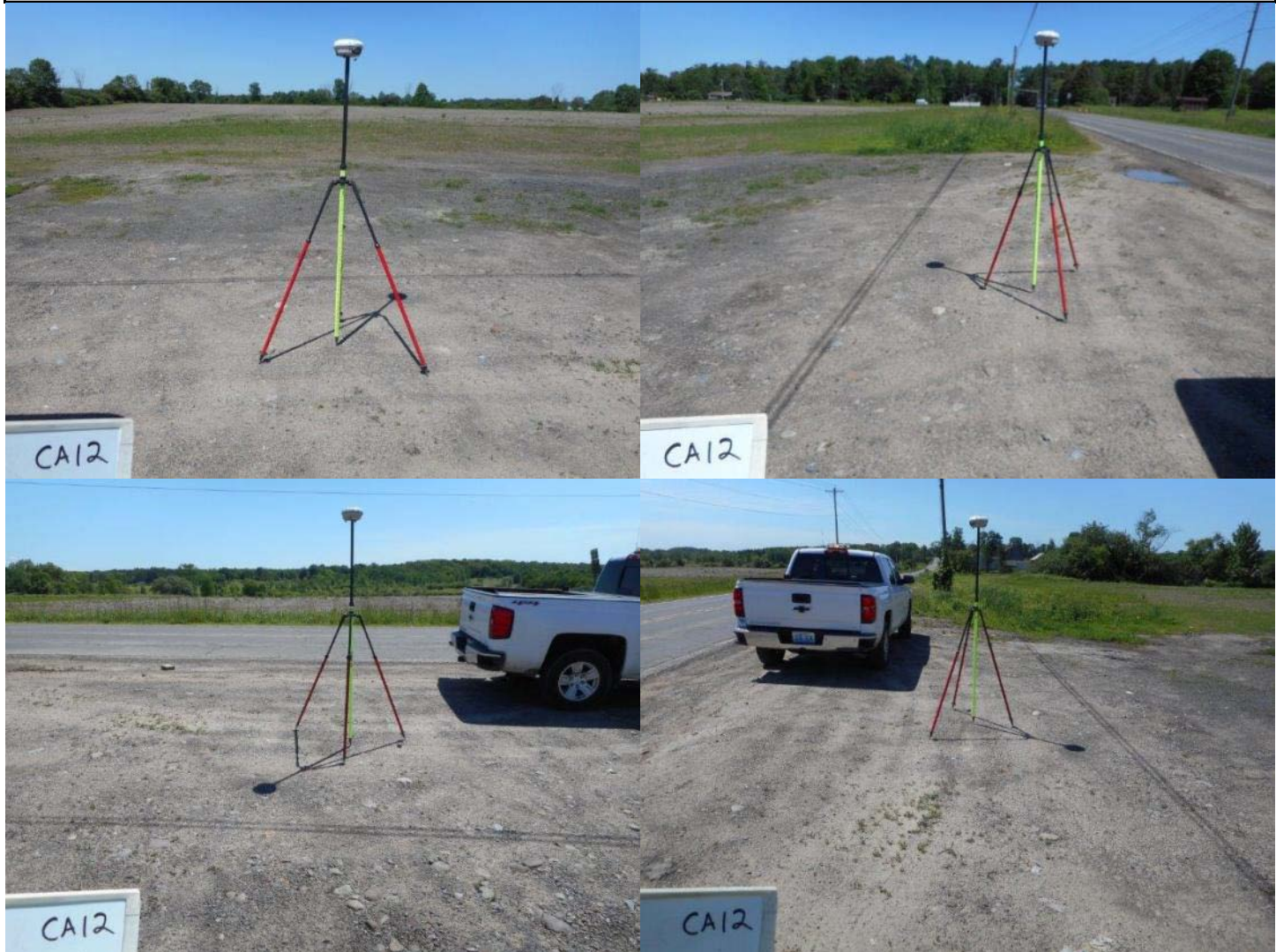
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
366337.140	280216.255	129.801

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	CA13
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Pennellville

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
370798.224	269834.368	148.121

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.010
RMSE Z	0.017
GPS Method	NYSNET

PHOTOS:







Point ID	CA14
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Mallory

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
373134.872	295252.492	182.308

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-3-17
RMSE Hz	0.011
RMSE Z	0.017
GPS Method	NYSNET

PHOTOS:





Point ID	CA15
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Panther Lake

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
364593.655	303859.227	181.810

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.006
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	CA16
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Panther Lake

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

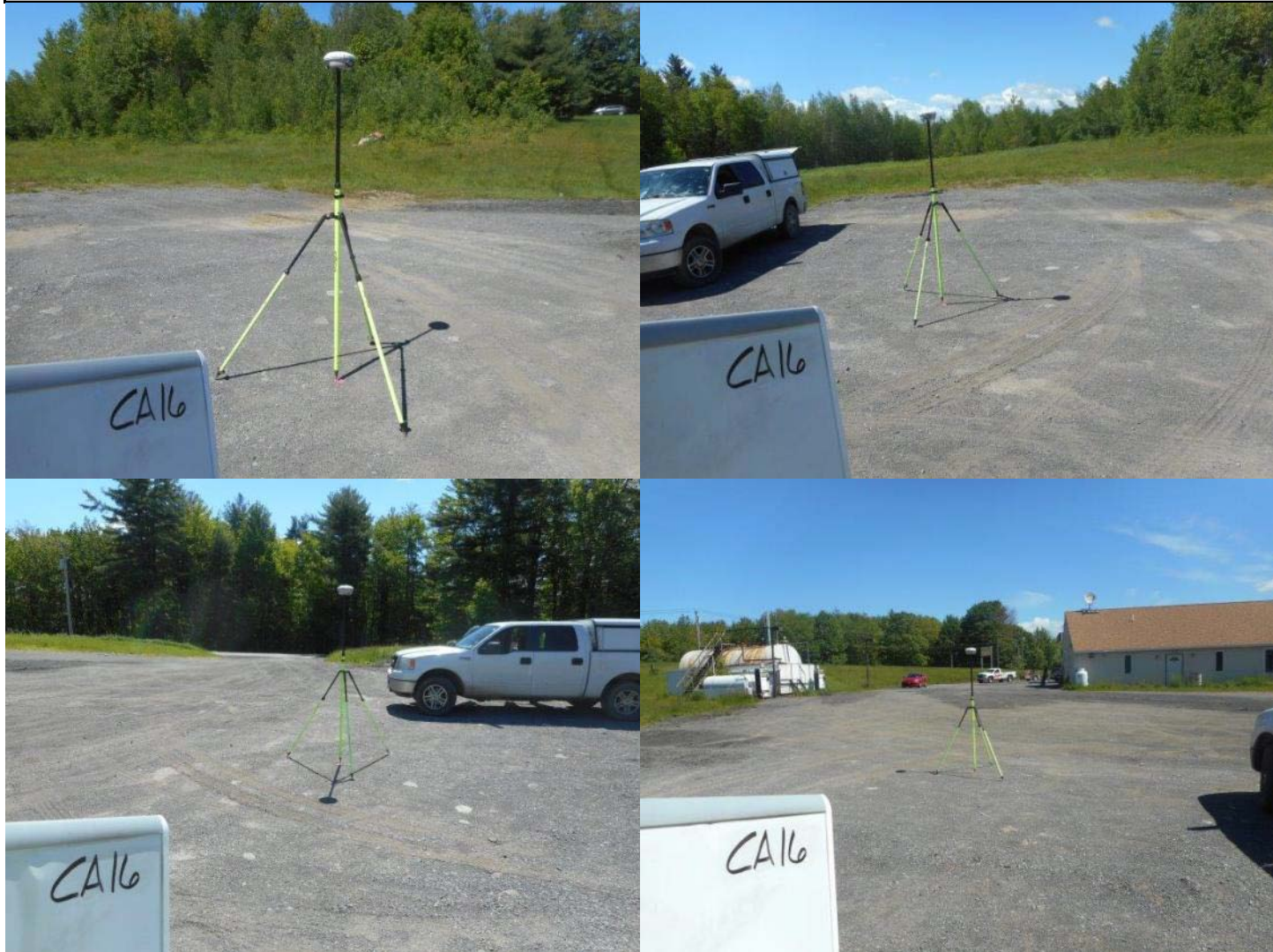
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
374233.167	306365.256	223.569

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-3-17
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	CA17
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Camden West

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
365513.692	316180.084	154.894

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	NYSNET

PHOTOS:





Point ID	CA18
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Camden West

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
371911.523	317150.873	161.579

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-3-17
RMSE Hz	0.007
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	CA19
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Camden East

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
374121.514	324428.897	275.076

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-3-17
RMSE Hz	0.016
RMSE Z	0.027
GPS Method	NYSNET

PHOTOS:





Point ID	CA20
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Westernville

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

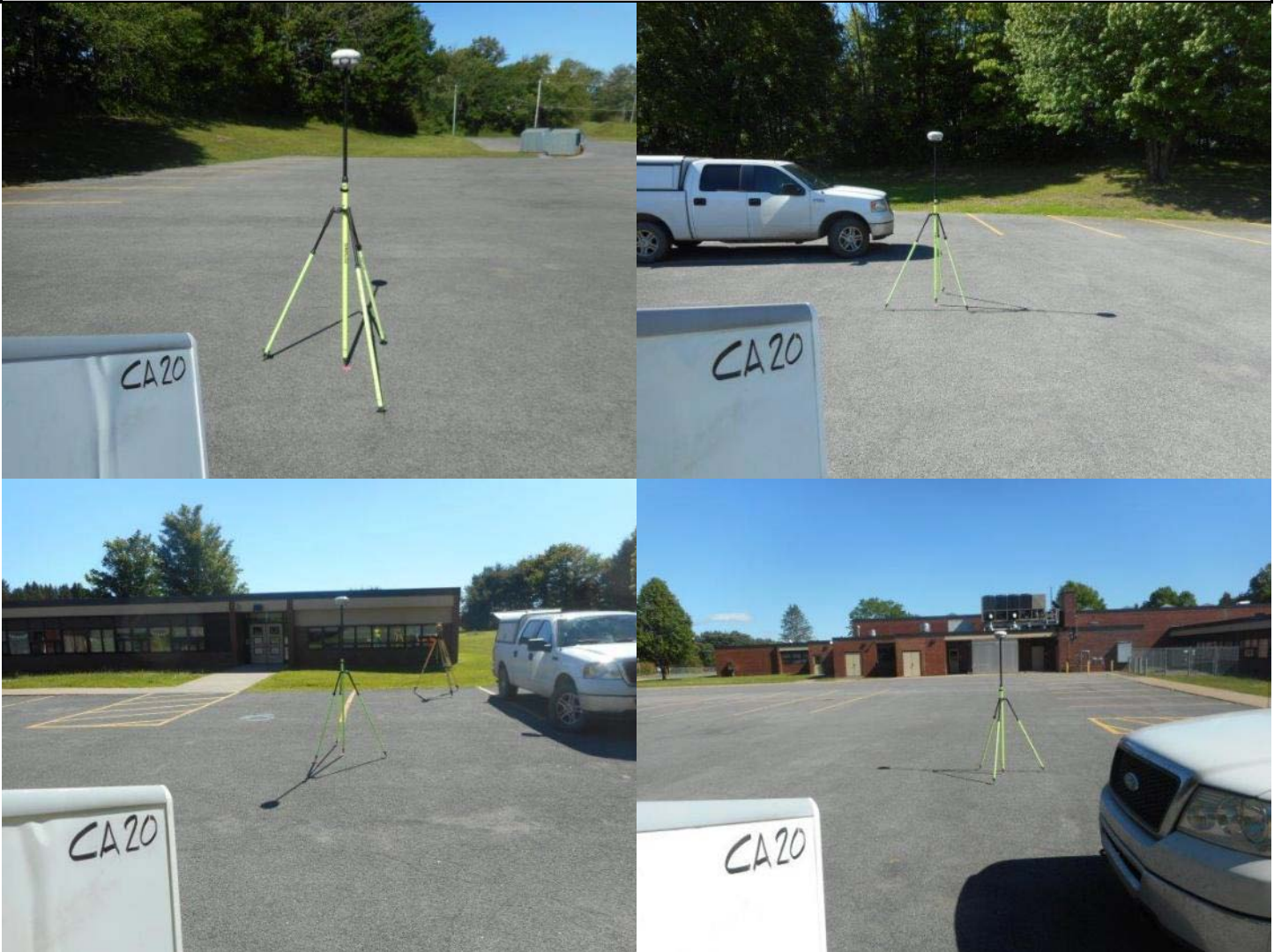
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
367163.564	339921.104	192.497

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-3-17
RMSE Hz	0.010
RMSE Z	0.017
GPS Method	NYSNET

PHOTOS:





Point ID	CA21
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Lee Center

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
364360.536	336335.247	146.922

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	NYSNET

PHOTOS:







Point ID	CA22
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Camden East

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
365791.180	326487.299	136.875

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	NYSNET

PHOTOS:





Point ID	CA23
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Williamstown

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
381650.493	306322.470	182.864

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-6-17
RMSE Hz	0.006
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	CA24
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Florence

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
381925.736	317600.106	293.842

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-5-17
RMSE Hz	0.010
RMSE Z	0.018
GPS Method	NYSNET

PHOTOS:





Point ID	CA25
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	Point Rock

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

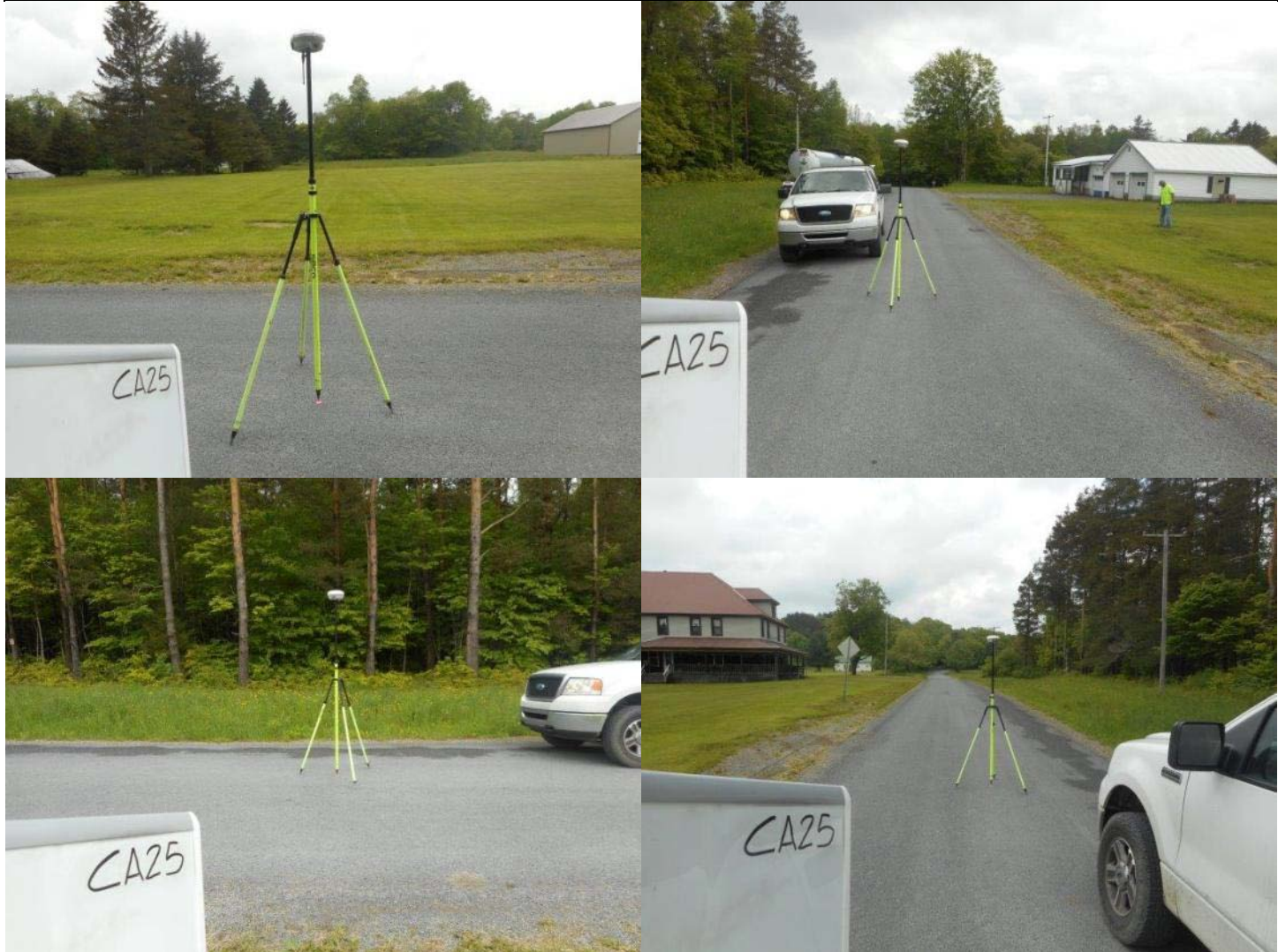
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
385101.564	329398.495	402.701

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-5-17
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	Static

PHOTOS:





Point ID	CA26
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Williamstown

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
386237.174	303746.733	199.734

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-3-17
RMSE Hz	0.015
RMSE Z	0.026
GPS Method	NYSNET

PHOTOS:





Point ID	CA27
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Redfield

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
391573.112	311996.400	286.507

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-2-17
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	CA28
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	High Market

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
391798.091	334950.096	495.043

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5106461161
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-5-17
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	Static

PHOTOS:





Point ID	CA29
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	High Market

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
400658.506	333132.884	541.087

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-2-17
RMSE Hz	0.007
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:







Point ID	CA30
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	Paige

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
413510.704	330641.587	580.519

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-2-17
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	NYSNET

PHOTOS:





Point ID	CA31
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Oswegatchie

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
590746.174	107489.411	453.857

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA32
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Newton Falls

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

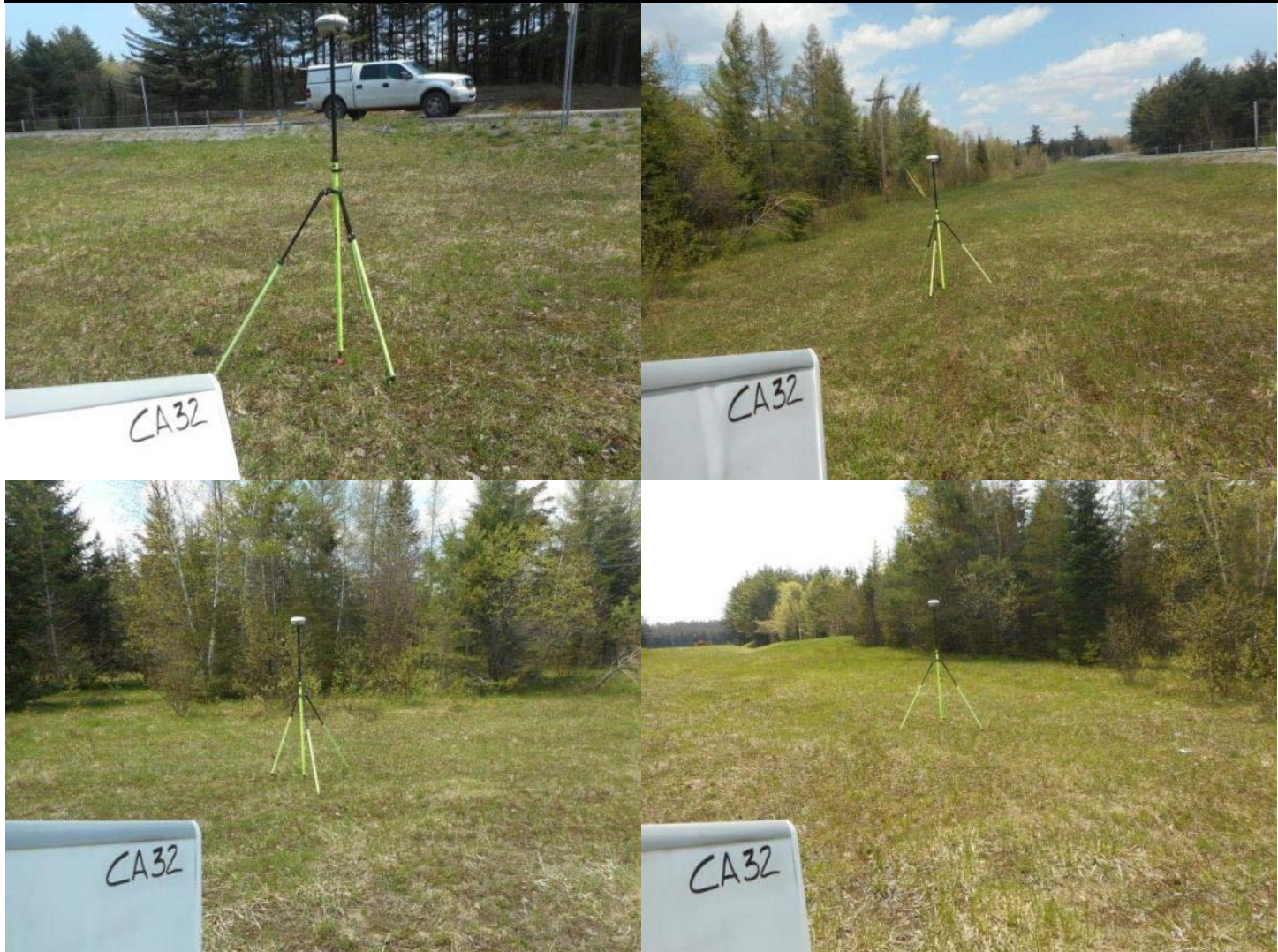
Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
593034.875	116410.029	442.346

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-17-17
RMSE Hz	0.018
RMSE Z	0.018
GPS Method	NYSNET

PHOTOS:





Point ID	CA33
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Long Tom Mountain

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
588647.876	139585.214	528.821

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-16-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA34
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Piercefield

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
599423.795	144770.929	479.760

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-16-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA35
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Childwold

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
605550.381	136730.665	480.127

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-17-17
RMSE Hz	0.022
RMSE Z	0.022
GPS Method	NYSNET

PHOTOS:





Point ID	CA36
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Cranberry Lake

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
598566.722	123063.237	456.196

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	NYSNET





Point ID	CA37
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Newton Falls

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
597524.059	110523.033	420.941

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-17-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:







Point ID	CA38
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Fine

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

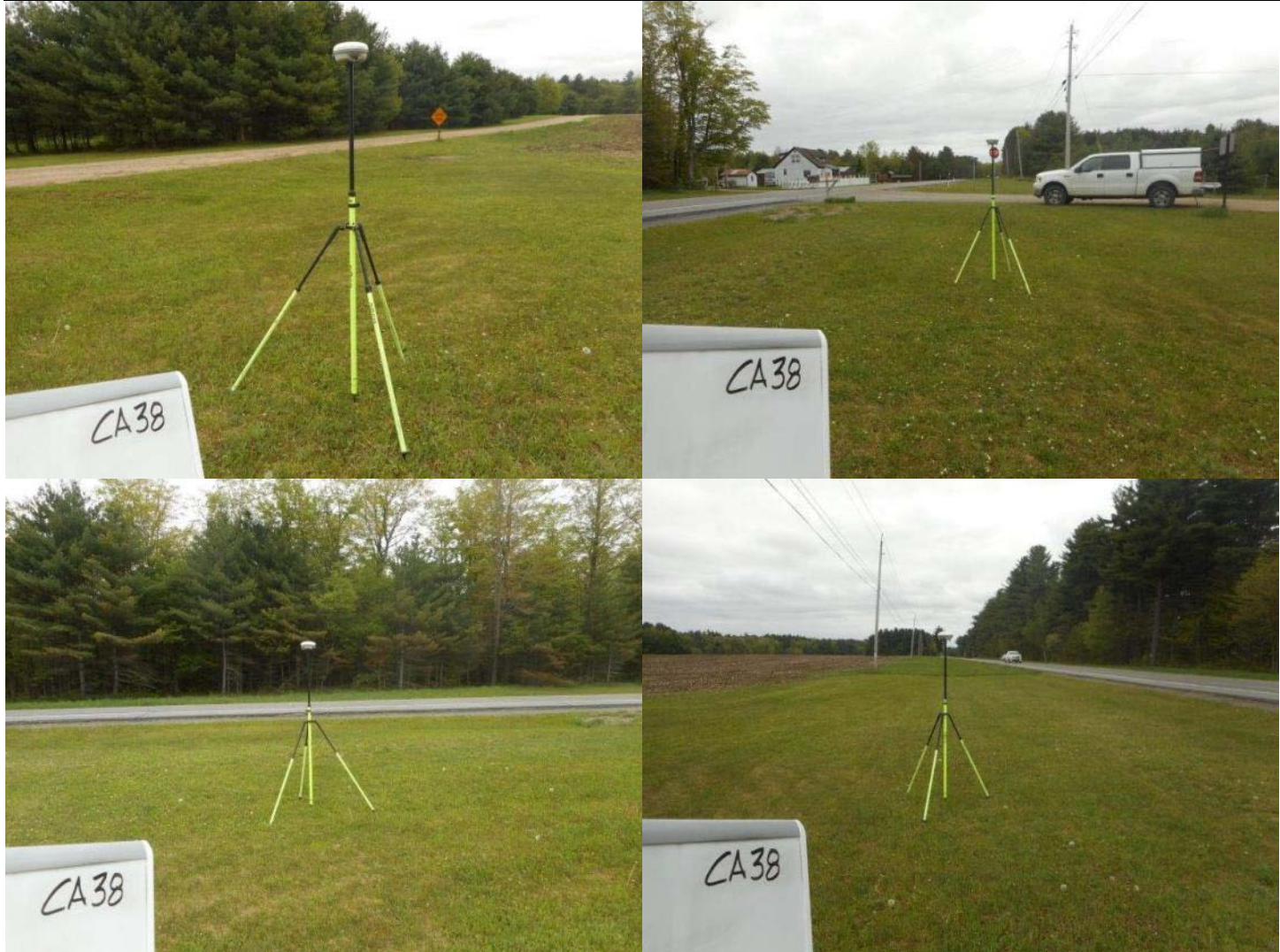
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
600248.436	98340.573	304.334

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-19-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	CA39
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Harisville

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
594281.495	87476.115	240.462

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA40
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Lake Bonaparte

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
601795.142	78562.253	209.815

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-19-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA41
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Edwards

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
610342.270	89543.660	200.340

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-19-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA42
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Degrasse

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
611208.775	101897.697	268.564

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	NYSNET

PHOTOS:





Point ID	CA43
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Tooley Pond

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
605114.724	114446.498	429.064

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-17-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA44
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Childwold

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
610301.761	132044.210	436.101

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-17-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA45
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Brother Ponds

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
601630.553	128193.877	453.822

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:







Point ID	CA46
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Mount Matumbia

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
602547.440	149776.965	483.159

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-16-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	CA47
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Gouverneur

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
611343.060	72822.368	133.487

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	CA48
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Hammond

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
623870.097	54598.133	118.115

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	CA49
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Richville

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

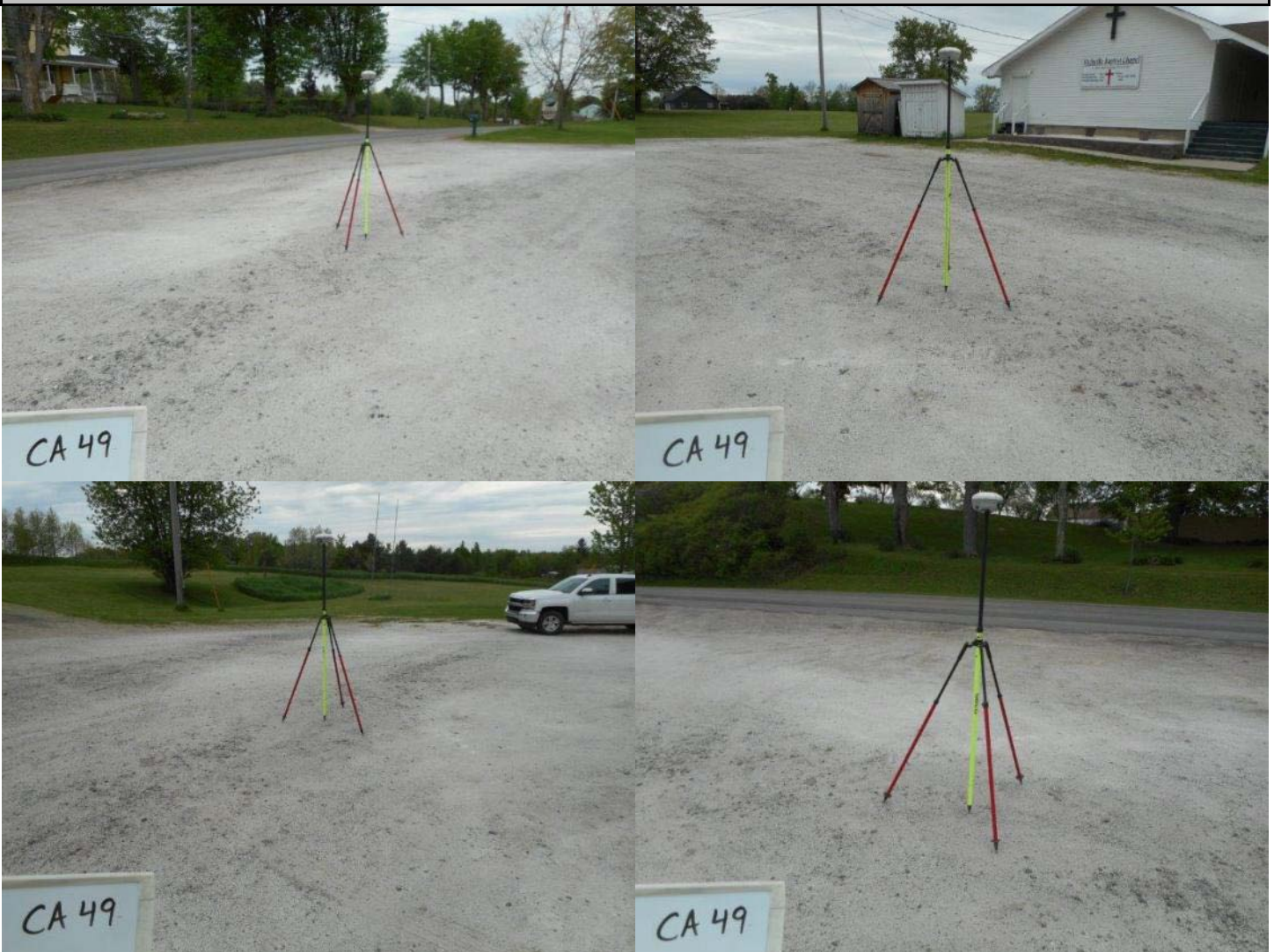
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
620924.908	79193.481	124.072

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA50
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Pope Mills

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
622019.551	67425.981	115.442

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA51
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Bigelow

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
621186.152	89752.055	167.878

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-19-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA52
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	West Pierrepont

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
617033.426	104783.755	247.782

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	CA53
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
620840.268	124743.133	435.825

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-18-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:







Point ID	CA54
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
623932.139	126822.141	398.289

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	CA55
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Mount Matumbla

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
608071.347	148349.935	464.440

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5153480435
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA56
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Upper Saranac Lake

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
612423.324	164154.859	496.708

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-16-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA57
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Saint Regis Mountain

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

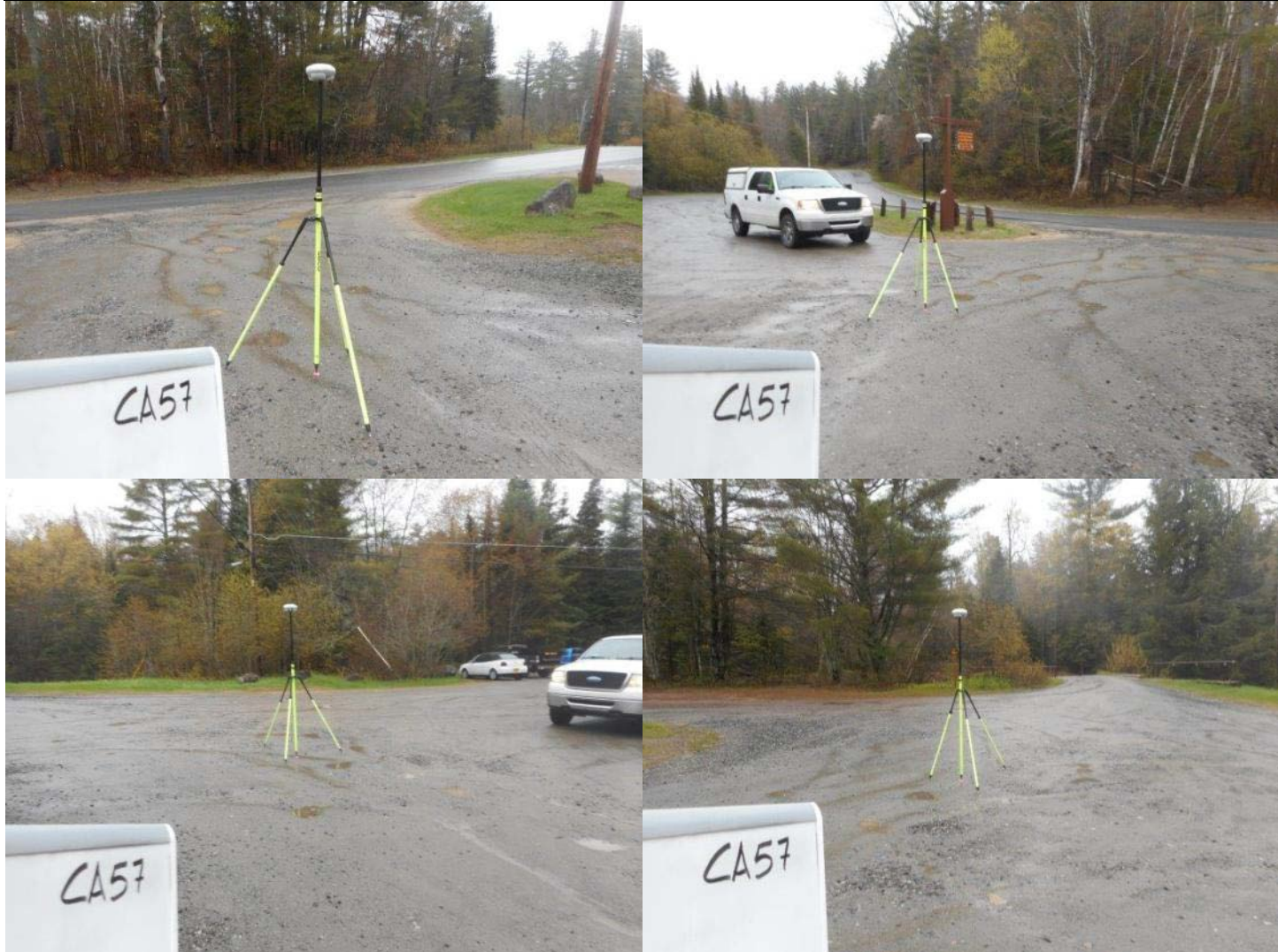
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
621775.563	165934.594	493.239

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA58
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Meacham Lake

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
630702.948	165548.729	504.698

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-13-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	Static

PHOTOS:





Point ID	CA59
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Meno

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
630968.220	154302.009	474.820

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	NYSNET

PHOTOS:





Point ID	CA60
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
627197.672	121117.087	365.038

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-18-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA61
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Rainbow Falls

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
632761.411	131168.798	394.933

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:







Point ID	CA62
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Colton

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
630266.990	119100.995	282.128

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5153480435
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	CA63
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	West Pierrepont

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
628608.001	105179.848	233.667

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA64
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Canton

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
631371.999	95950.378	159.573

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-18-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	CA65
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Bigelow

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
629502.881	82967.898	102.397

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-18-17
RMSE Hz	0.016
RMSE Z	0.016
GPS Method	NYSNET

PHOTOS:





Point ID	CA66
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Heuvelton

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
631242.039	73343.105	101.963

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	CA67
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Edwardsville

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
636183.989	60945.027	90.498

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-19-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA68
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Edwardsville

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

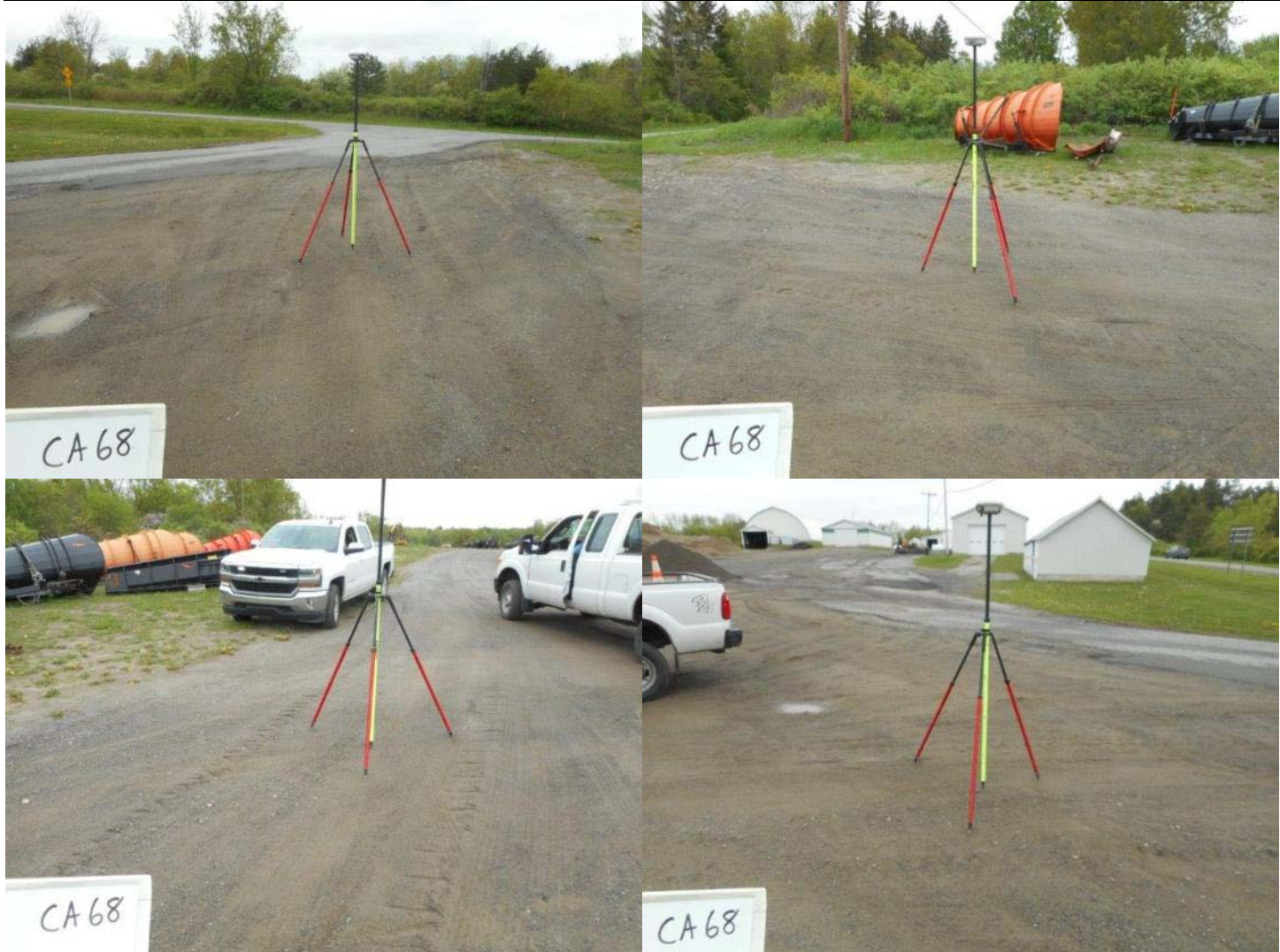
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
641941.415	70218.015	113.645

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA69
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Heuvelton

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

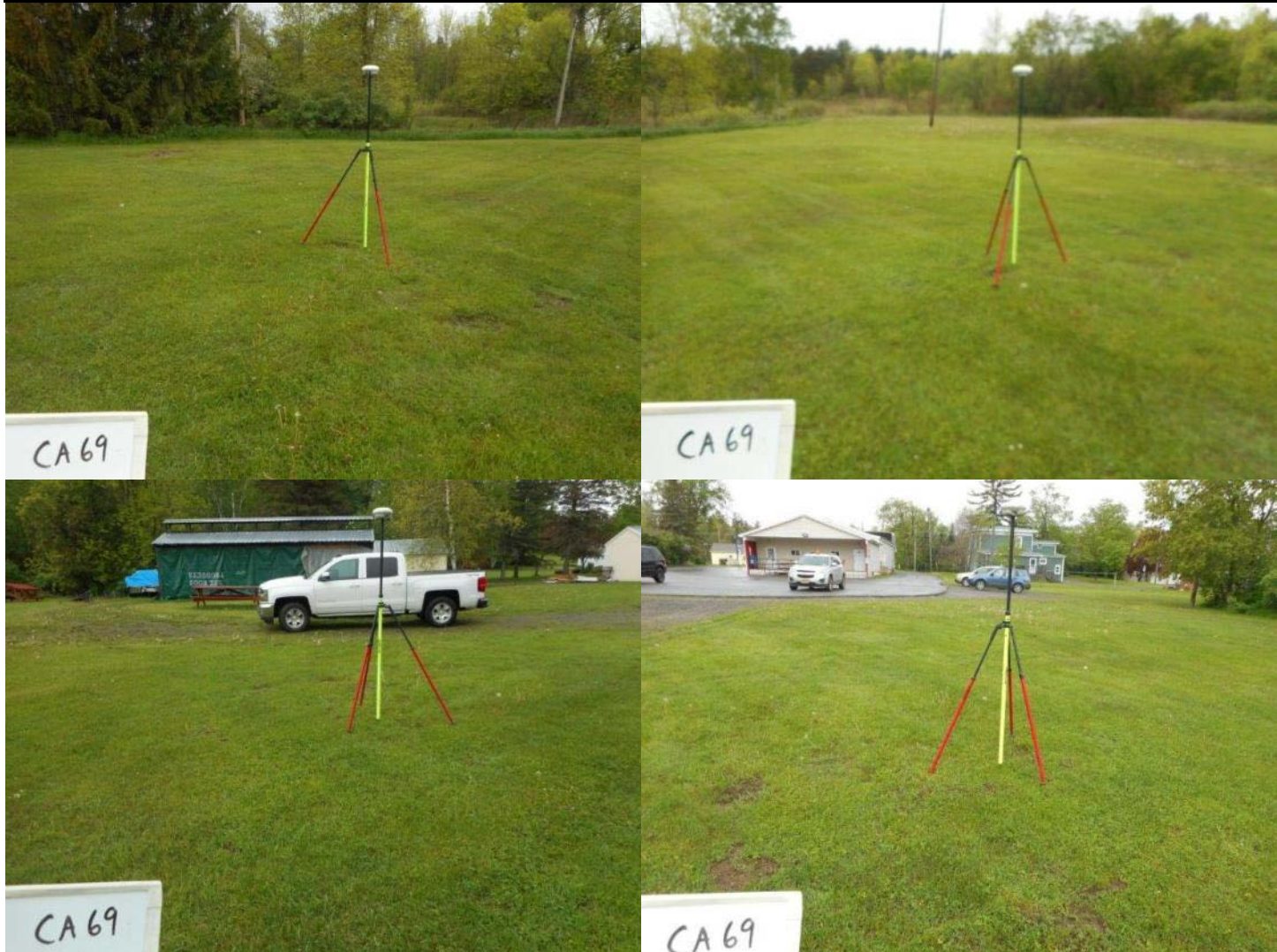
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
642590.229	78400.972	90.308

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:







Point ID	CA70
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Canton

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

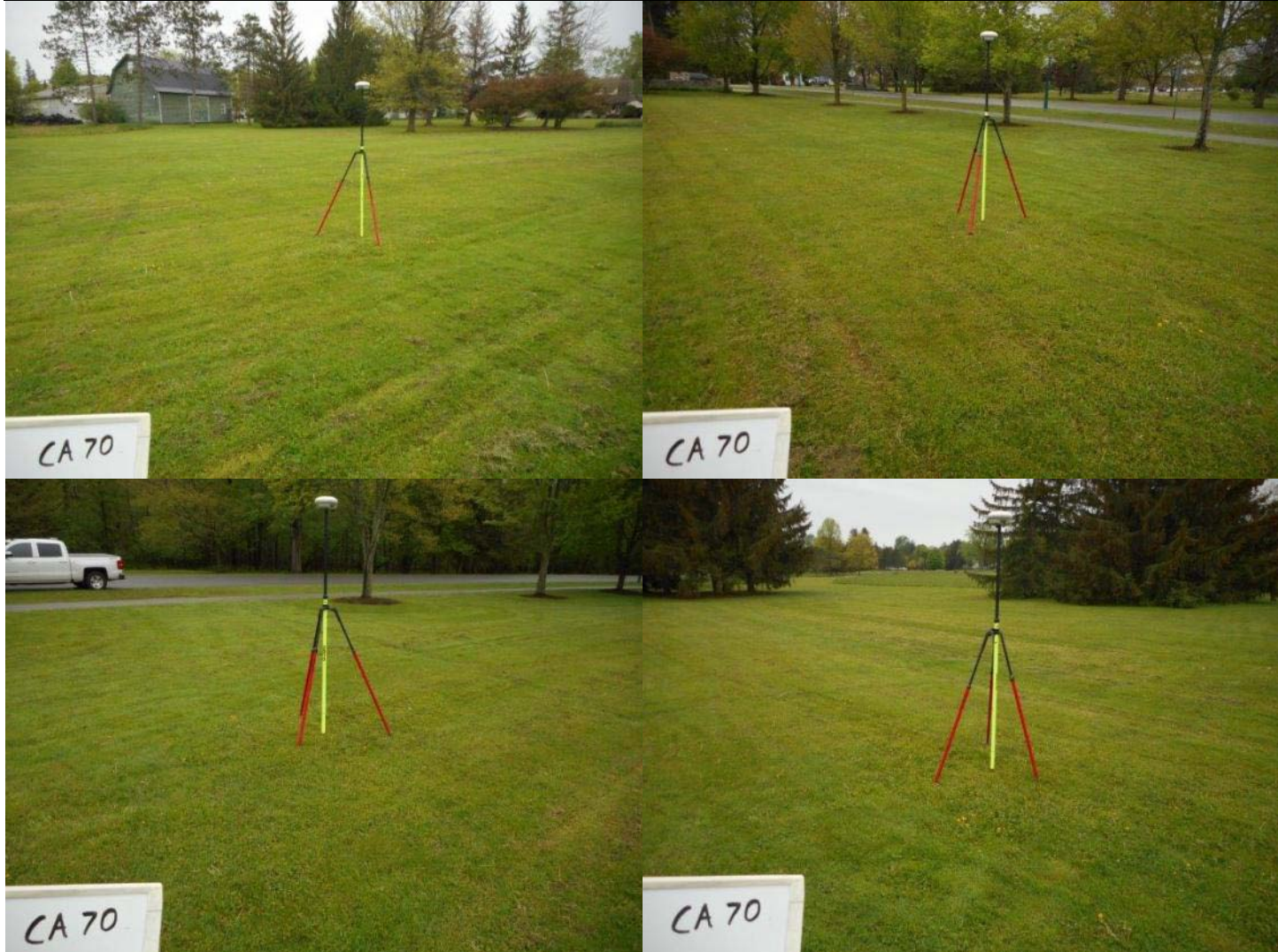
Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
640164.253	97913.154	115.946

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	NYSNET

PHOTOS:





Point ID	CA71
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Pierrepont

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
639704.441	106420.538	147.334

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-18-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA72
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Colton

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
638695.906	118418.764	270.022

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA73
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Parishville

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
643844.642	125392.020	271.731

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA74
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Sylvan Falls

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
641040.148	140023.058	432.523

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA75
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Lake Ozonia

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
639968.728	149912.072	437.187

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-12-17
RMSE Hz	0.014
RMSE Z	0.014
GPS Method	NYSNET

PHOTOS:





Point ID	CA76
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Meacham Lake

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
639707.213	162270.620	444.695

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-13-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA77
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Loon Lake

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
640545.892	178944.451	511.902

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5153480435
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.004
RMSE Z	0.004
GPS Method	NYSNET

PHOTOS:







Point ID	CA78
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Owl Head

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

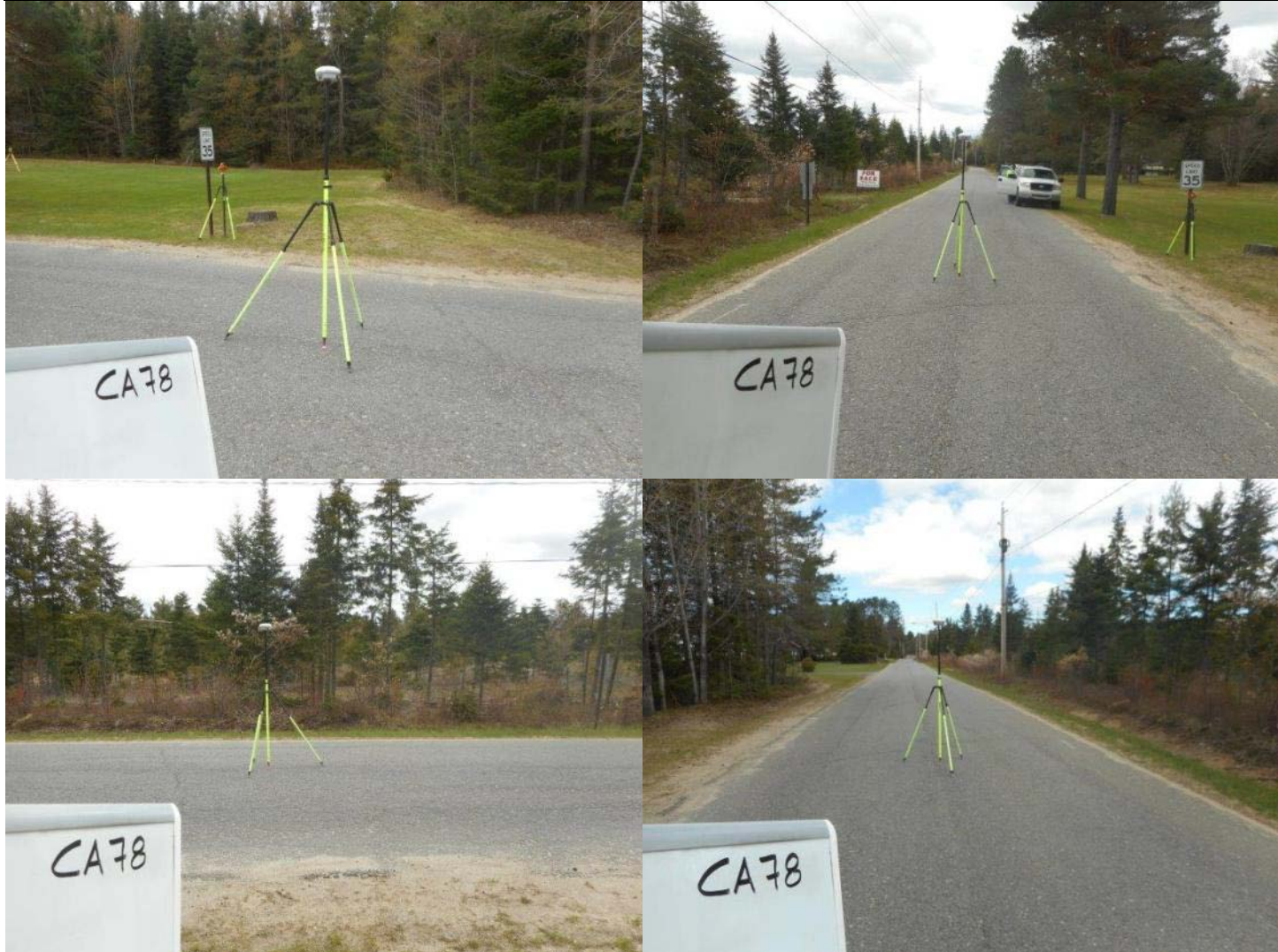
Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
650952.857	179169.484	461.236

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-12-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA79
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Lake Titus

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
651498.916	164530.879	463.959

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-12-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA80
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Santa Clara

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
650743.290	151018.423	423.295

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-12-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	CA89
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Nicholville

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
651370.940	137414.321	236.560

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA82
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Parishville

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

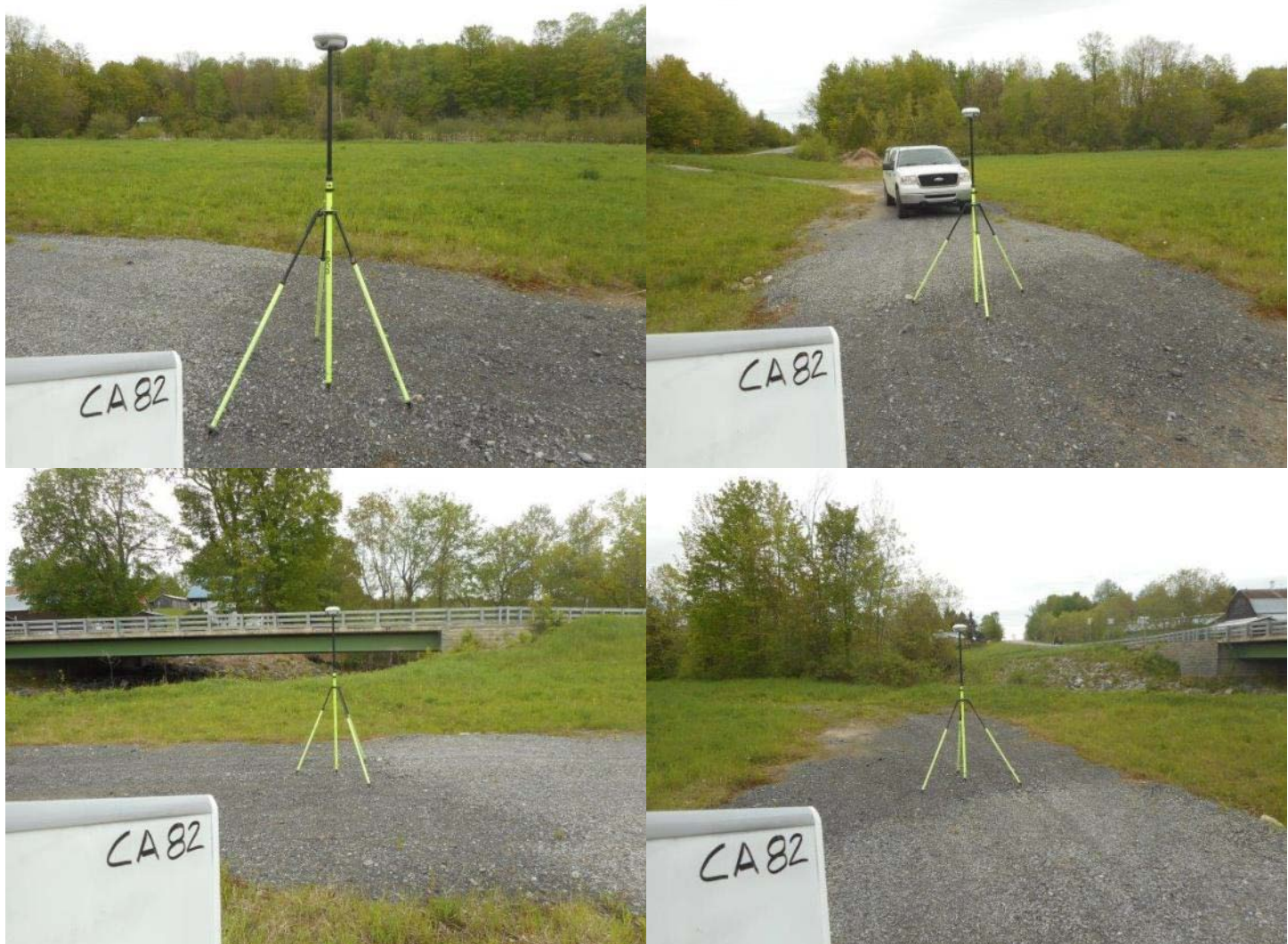
Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
652811.141	122837.808	127.218

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	CA83
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Potsdam

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
653185.848	111006.638	111.952

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-10-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA84
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Morley

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
653678.305	97842.773	97.225

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA85
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Lisbon

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
655484.624	85083.447	98.704

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:







Point ID	CA86
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Waddington

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
666677.269	98928.054	86.219

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-10-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	CA87
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Norfolk

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

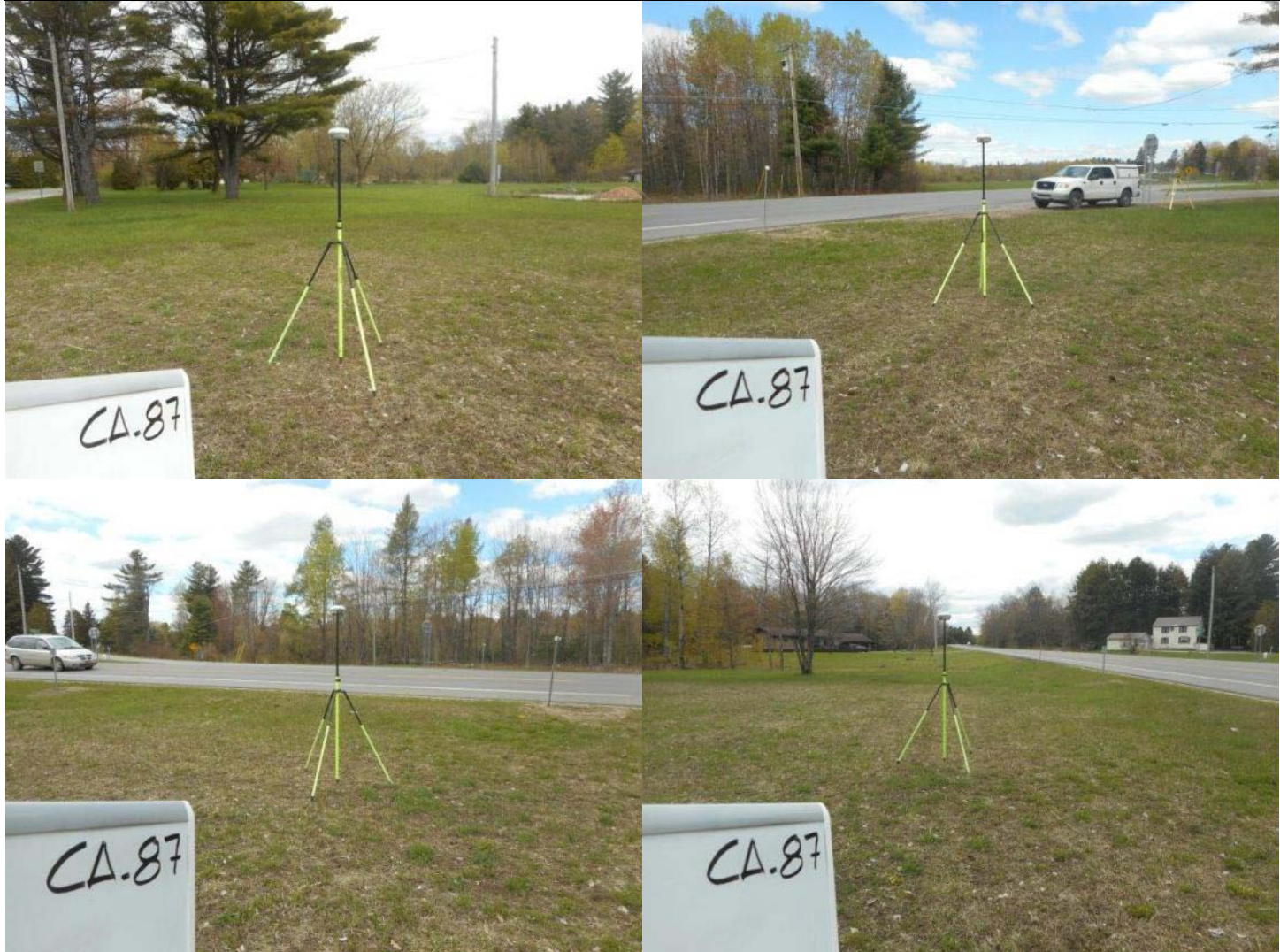
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
667495.957	111548.278	72.467

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-10-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA88
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Brashear Falls

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
661404.519	123776.573	112.145

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-10-17
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	NYSNET

PHOTOS:





Point ID	CA89
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	North Lawrence

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
663227.920	136212.091	103.917

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA90
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Brushton

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
665198.064	148312.314	136.175

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-11-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA91
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Bangor

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
663846.121	158077.128	237.219

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA92
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Malone

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

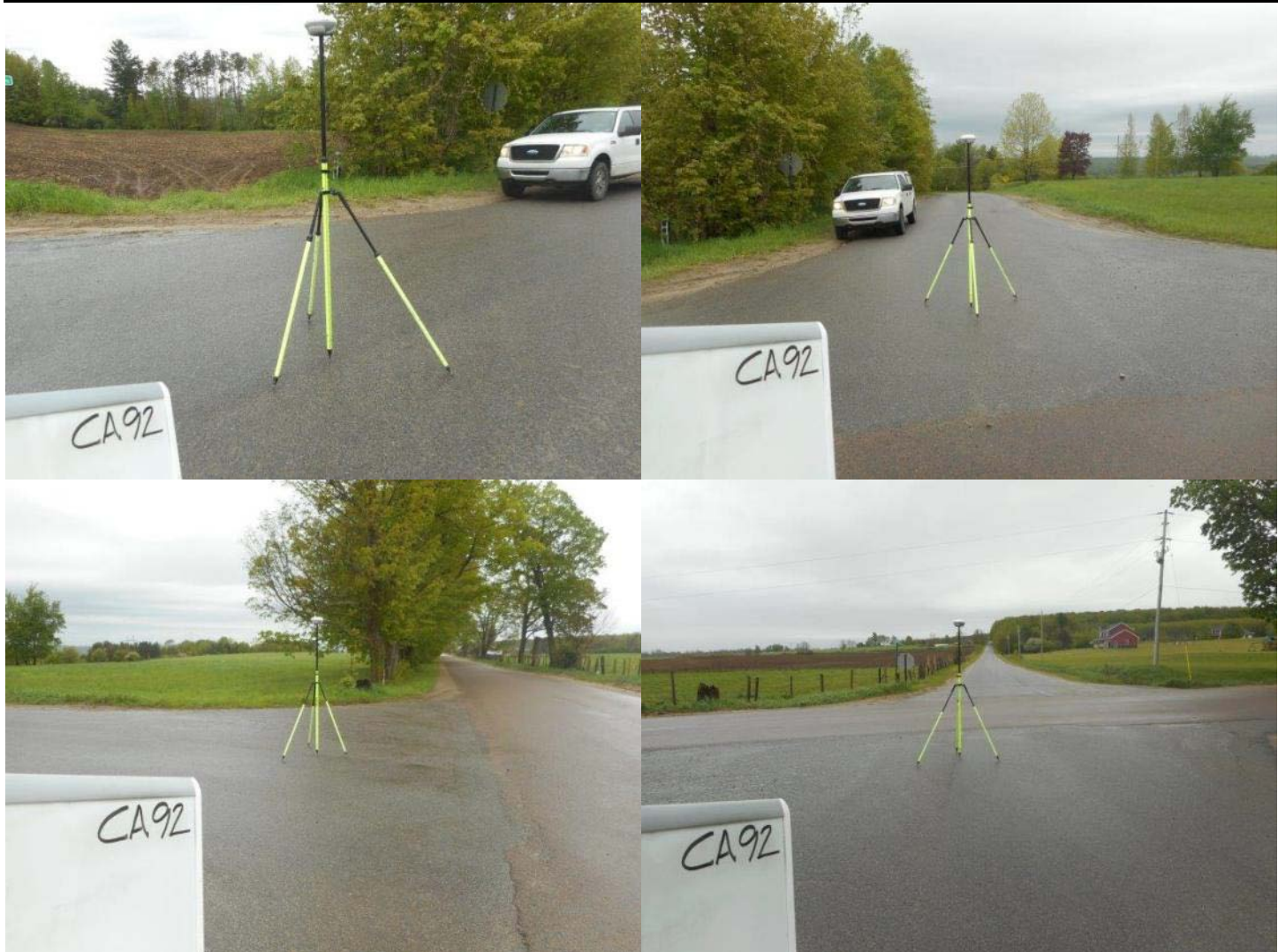
Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
665301.381	169316.425	304.326

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA95
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Brainardsville

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
663707.955	189449.368	406.392

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-11-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:







Point ID	CA94
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Chateaugay

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
672141.441	186996.120	406.142

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA95
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Chasm Falls

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
669630.567	177676.929	363.203

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-11-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA96
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Malone

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
671105.443	164297.802	195.440

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA97
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Fort Covington

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

Coordinate System	
	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
672136.356	151820.117	91.786

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-11-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA98
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Bombay

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
674435.431	141069.763	65.745

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA99
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Raquette River

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
673593.498	129741.388	65.565

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-10-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA100
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Massena

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
676222.137	119337.907	72.046

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	Static

PHOTOS:





Point ID	CA101
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Hogansburg

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
682689.699	132131.430	59.159

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-23-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:







Point ID	CA102
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Fort Covington Port of Entry

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
681267.323	142991.996	67.104

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA103
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	East of Fort Covington Port of Entry

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

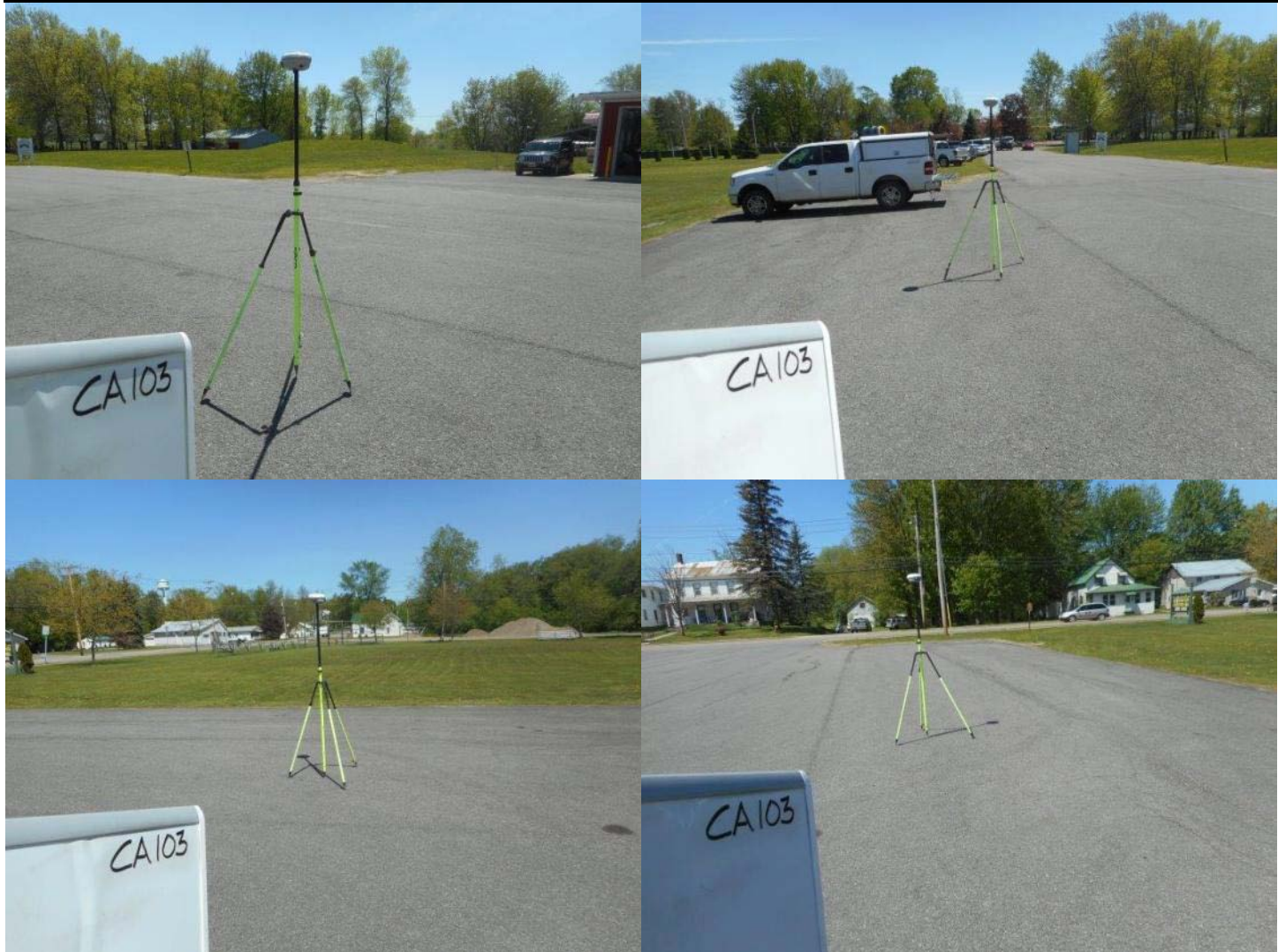
Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
683508.052	150196.364	52.345

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA104
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Jamiesons Line Station

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
681779.415	169909.081	94.512

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	CA105
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Chateaugay Port of Entry

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
681385.359	182882.379	184.032

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA106
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Malone

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
659896.912	165581.492	386.133

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-12-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	CA107
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Norfolk

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

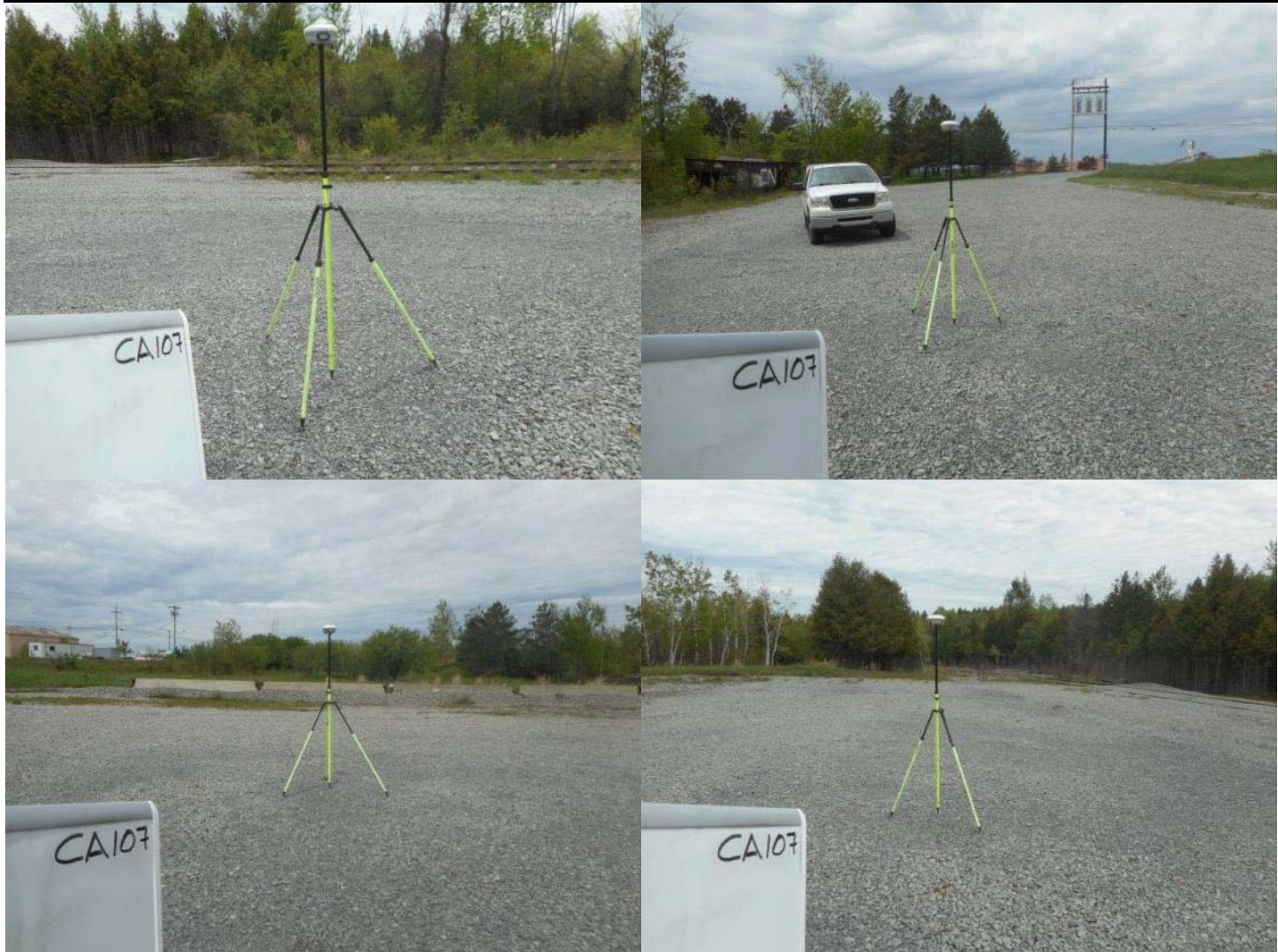
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
660872.141	111431.376	100.781

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	CA108
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Muskellunge Lake

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
615454.543	58173.133	94.526

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-19-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





## Bare Earth Point Log Sheets





Point ID	BE01
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Deruyter

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

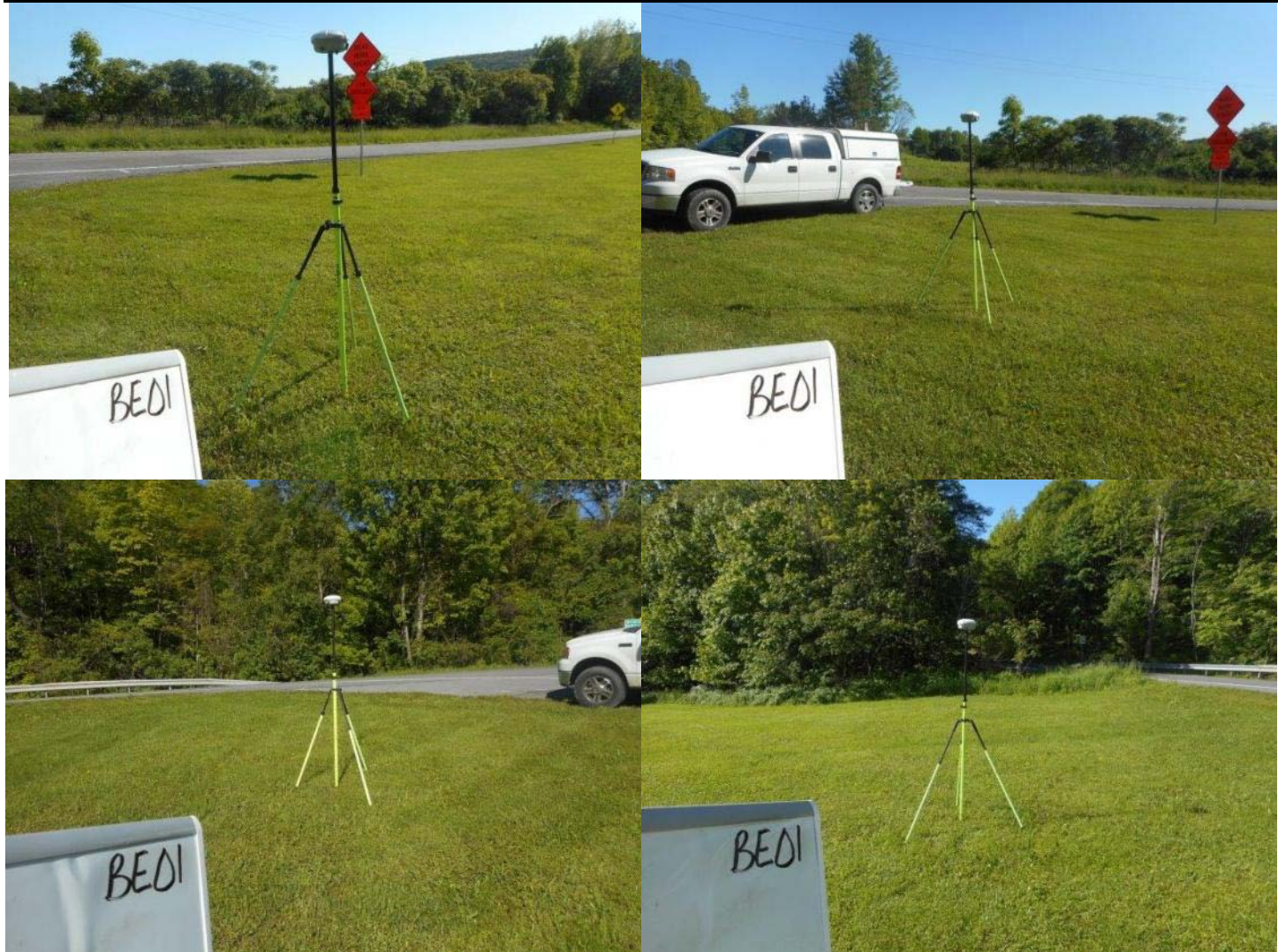
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
314161.790	305666.377	402.498

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.019
RMSE Z	0.031
GPS Method	NYSNET

PHOTOS:





Point ID	BE02
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Oran

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
325314.694	301622.484	399.395

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.008
RMSE Z	0.015
GPS Method	NYSNET

PHOTOS:





Point ID	BE03
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Tully

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
310557.177	289219.568	376.701

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-4-17
RMSE Hz	.0005
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE03a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Tully

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
313104.205	291753.806	378.456

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	7-10-17
RMSE Hz	0.012
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE04
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Manlius

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
335799.462	300786.513	257.636

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	BE05
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Syracuse East

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

Coordinate System	NAD83(2011)
NY SPCS – CENTRAL ZONE	NAVD88
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
346186.666	297153.709	127.932

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	NYSNET

PHOTOS:





Point ID	BE06
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onoodaga
Quad	Brewerton

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
353996.161	280786.170	121.669

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	NYSNET

PHOTOS:





Point ID	BE07
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Mallory

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

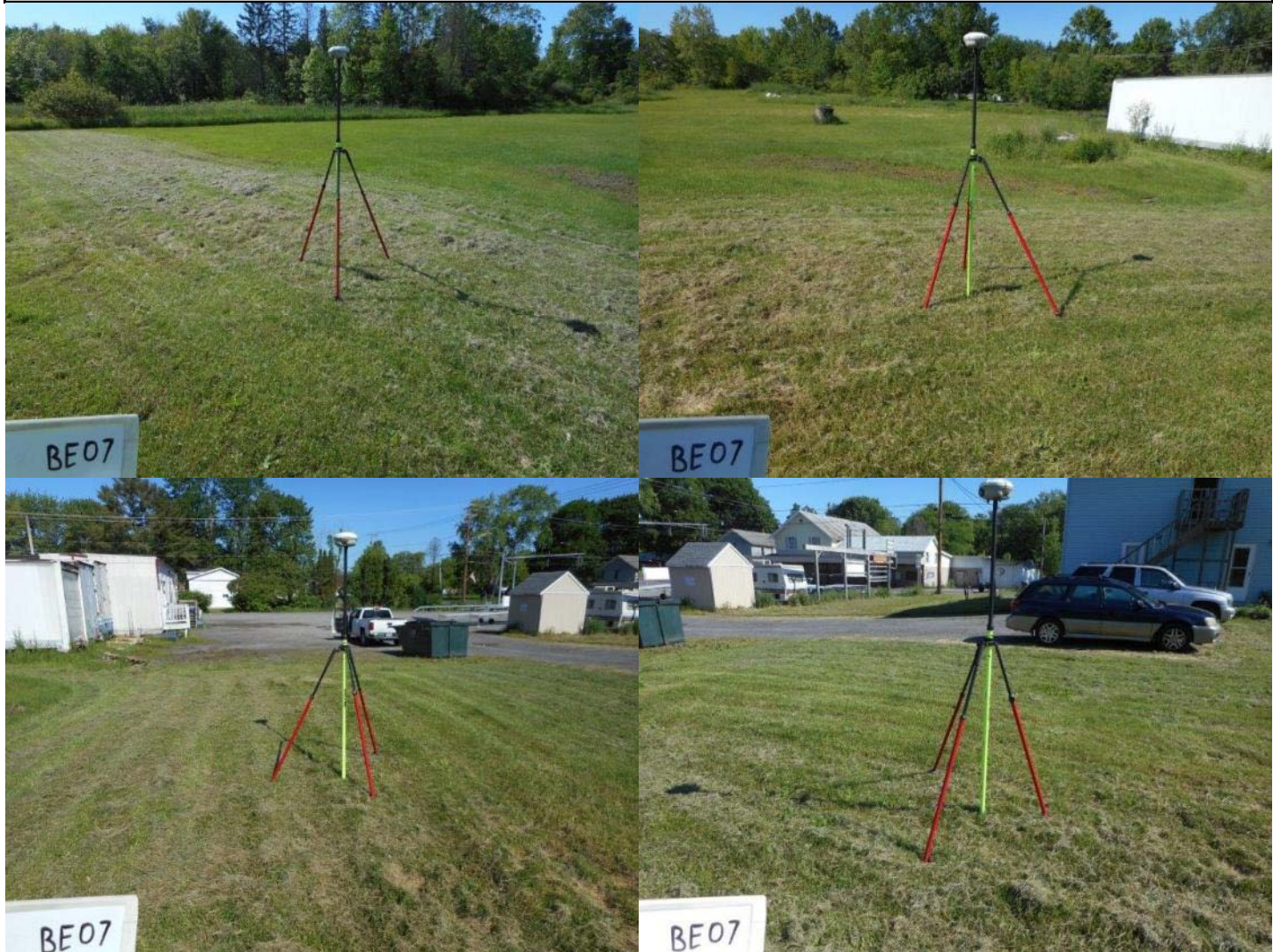
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
364430.528	291978.082	121.154

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.013
GPS Method	NYSNET

PHOTOS:







Point ID	BE08
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Central Square

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
366324.841	280204.992	128.945

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	BE09
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Pennellville

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

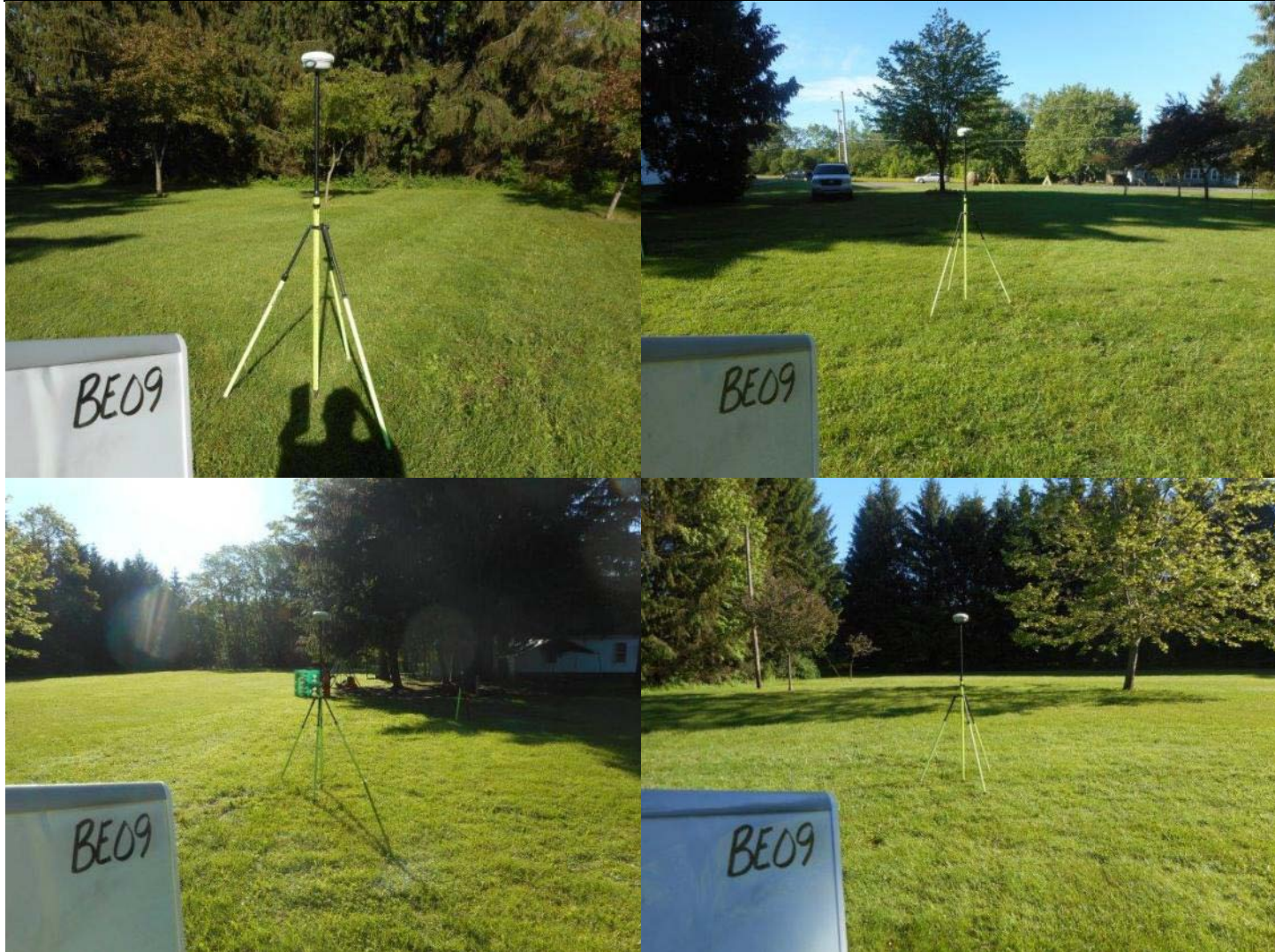
Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
370828.629	269841.877	148.358

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.008
RMSE Z	0.014
GPS Method	NYSNET

PHOTOS:





Point ID	BE10
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Panther Lake

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

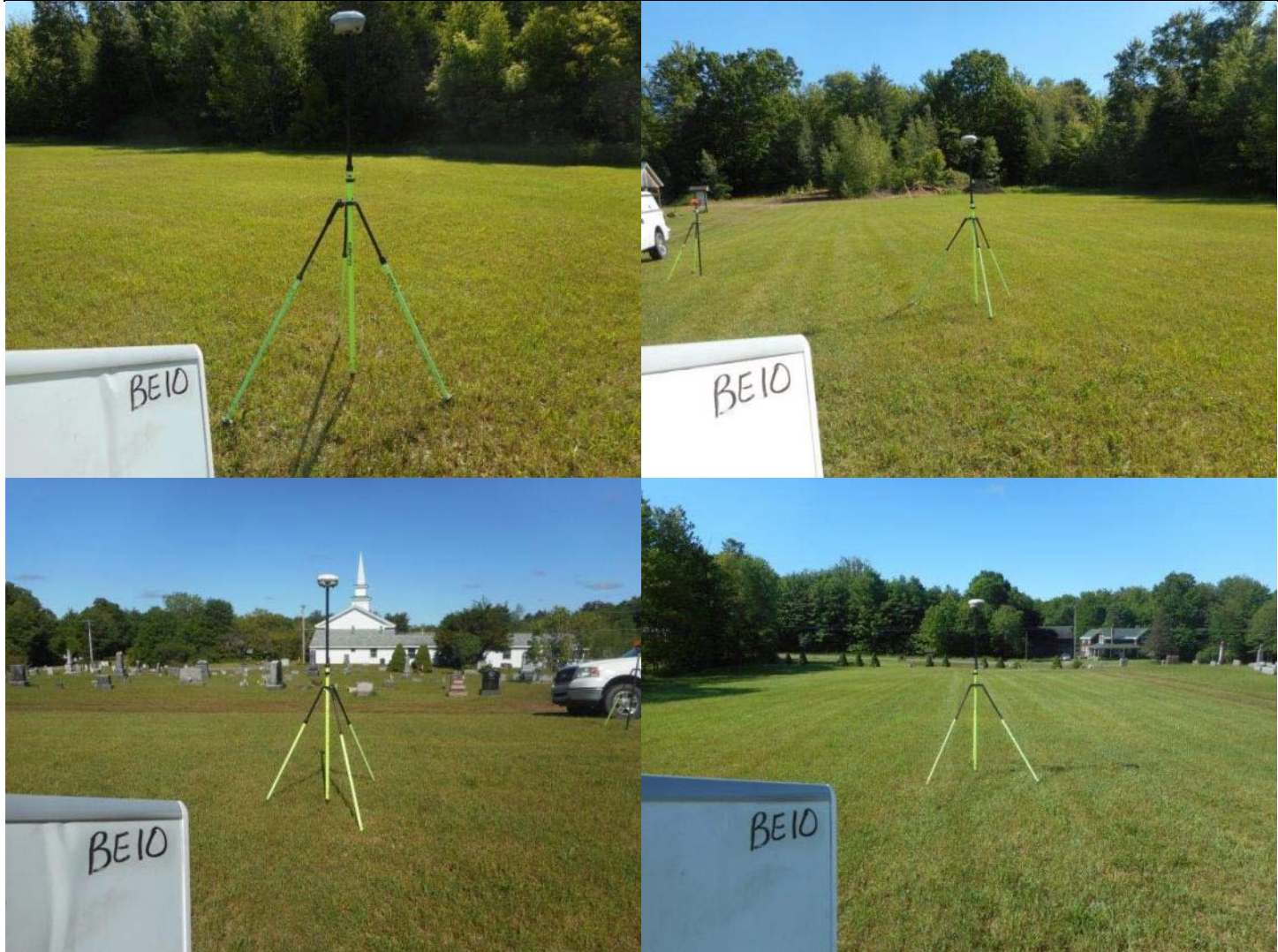
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
364561.551	303843.580	181.278

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	BE11
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Panther Lake

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
374242.046	306402.608	223.487

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-3-17
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	BE12
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Camden West

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

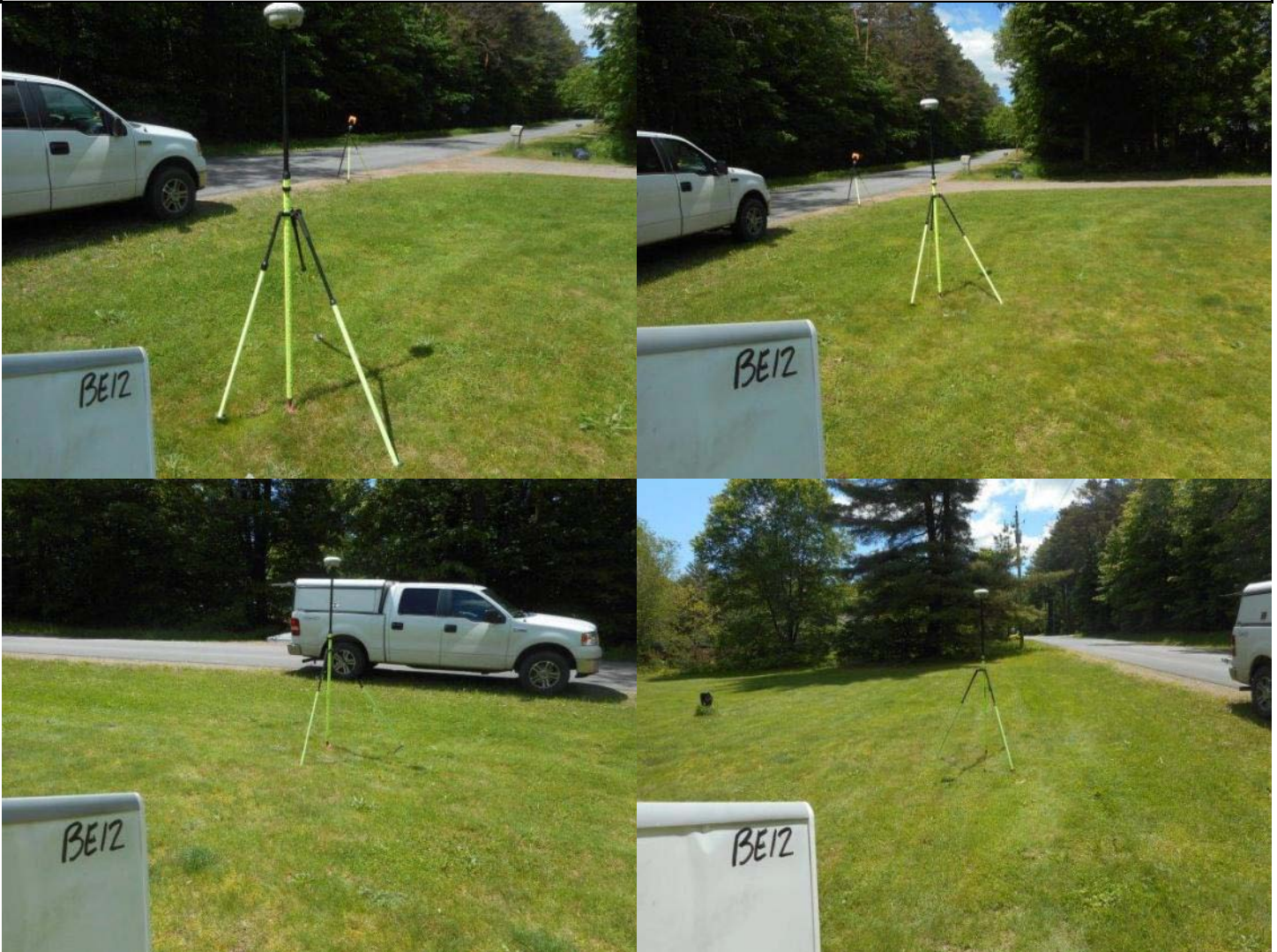
Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
365549.777	316088.825	154.408

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.011
RMSE Z	0.018
GPS Method	NYSNET

PHOTOS:





Point ID	BE13
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Camden East

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

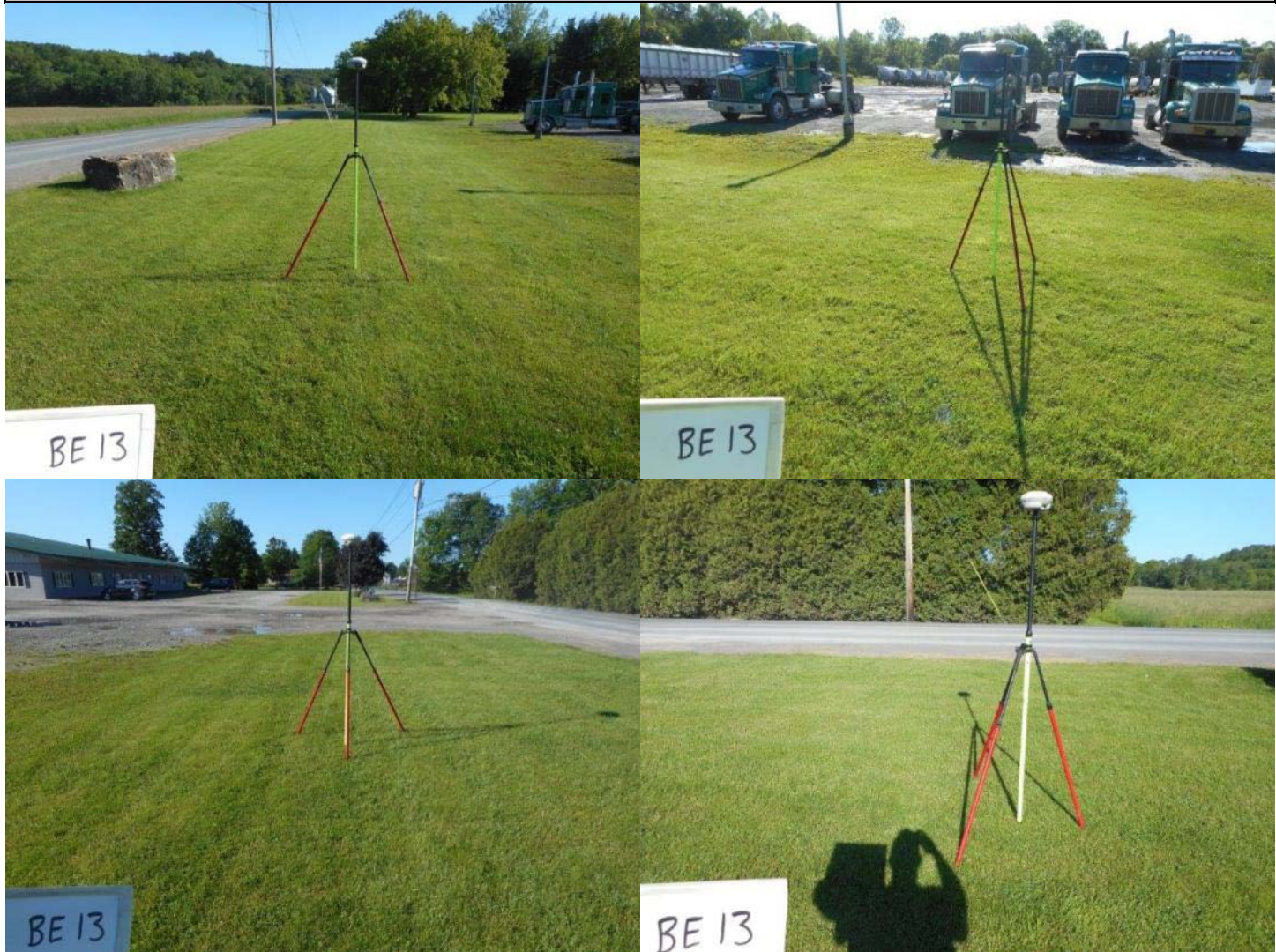
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
365820.458	326481.484	136.956

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	BE14
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Williamstown

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
381668.338	306325.197	183.065

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-6-17
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	BE15
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Florence

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

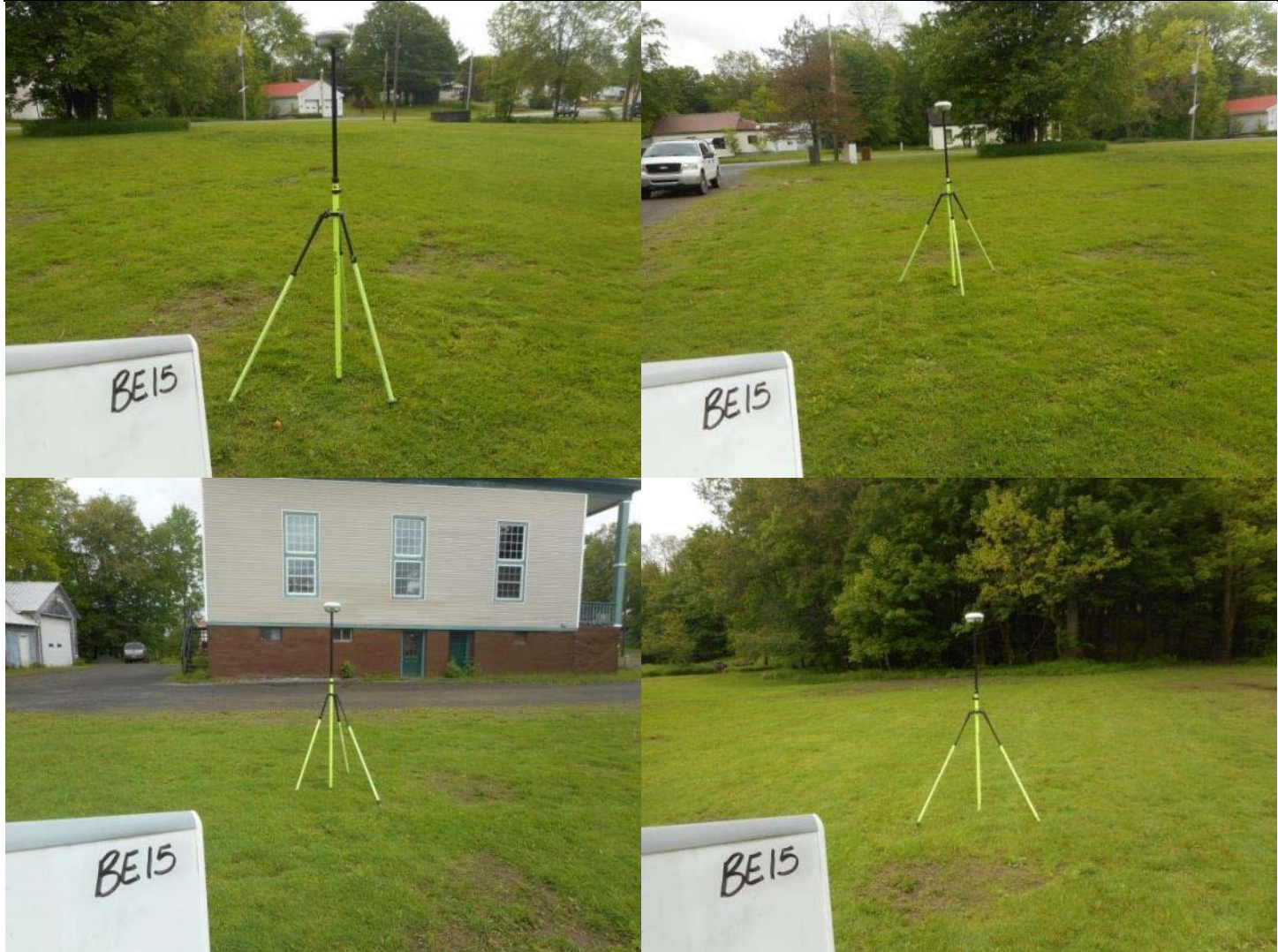
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
382027.569	317525.975	294.579

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-5-17
RMSE Hz	0.010
RMSE Z	0.018
GPS Method	NYSNET

PHOTOS:







Point ID	BE16
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	Point Rock

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
385093.777	329383.003	402.738

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-5-17
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	NYSNET

PHOTOS:





Point ID	BE17
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Redfield

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
391597.159	312078.213	286.872

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-2-17
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	NYSNET

PHOTOS:





Point ID	BE18
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	High Market

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

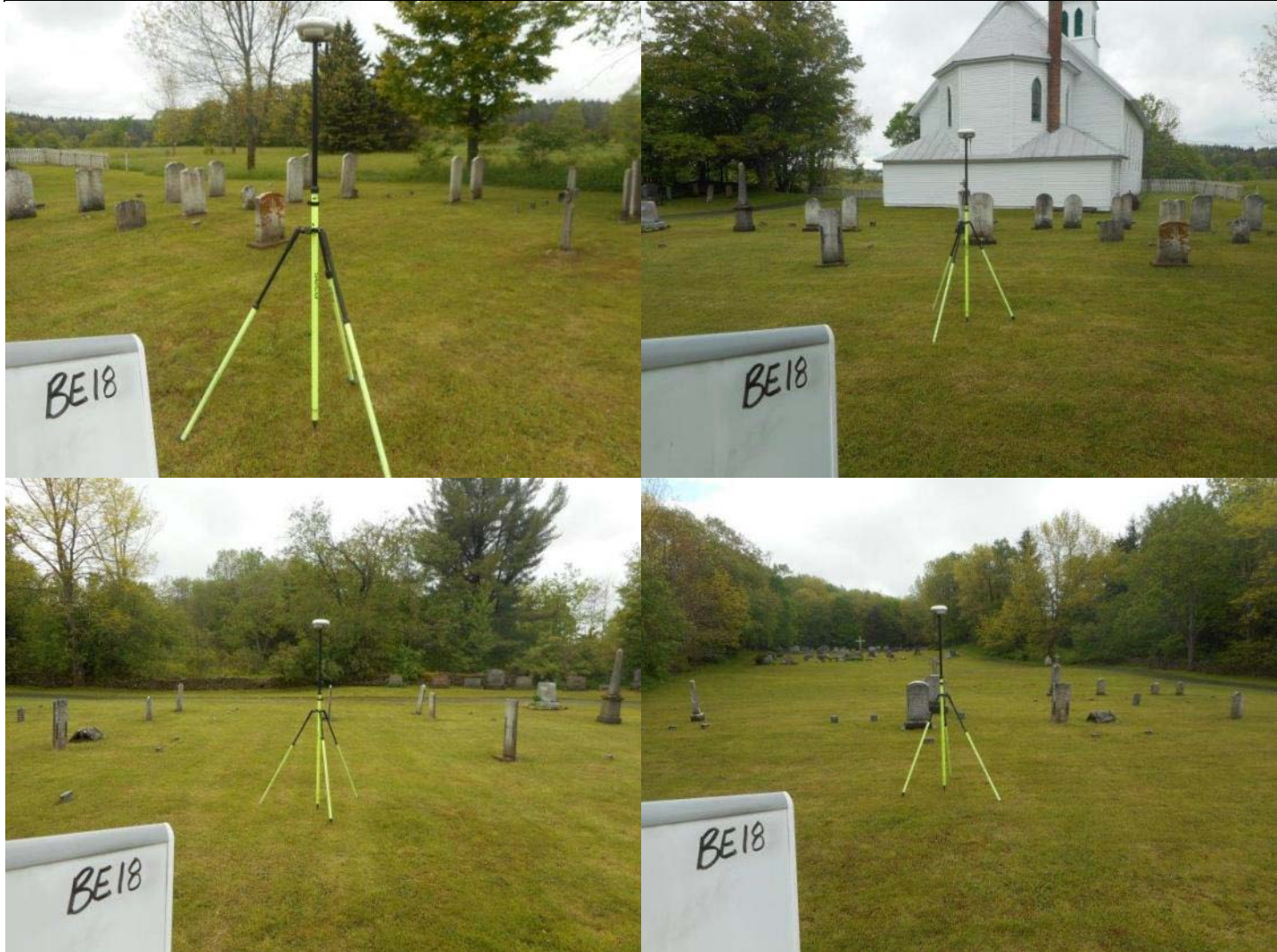
Coordinate System	NAD83(2011)
	NY SPCS – CENTRAL ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
391783.653	335003.395	496.544

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-5-17
RMSE Hz	0.003
RMSE Z	0.007
GPS Method	Static

PHOTOS:





Point ID	BE19
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	High Market

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
400637.457	333139.755	540.784

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-2-17
RMSE Hz	0.007
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	BE20
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	Paige

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

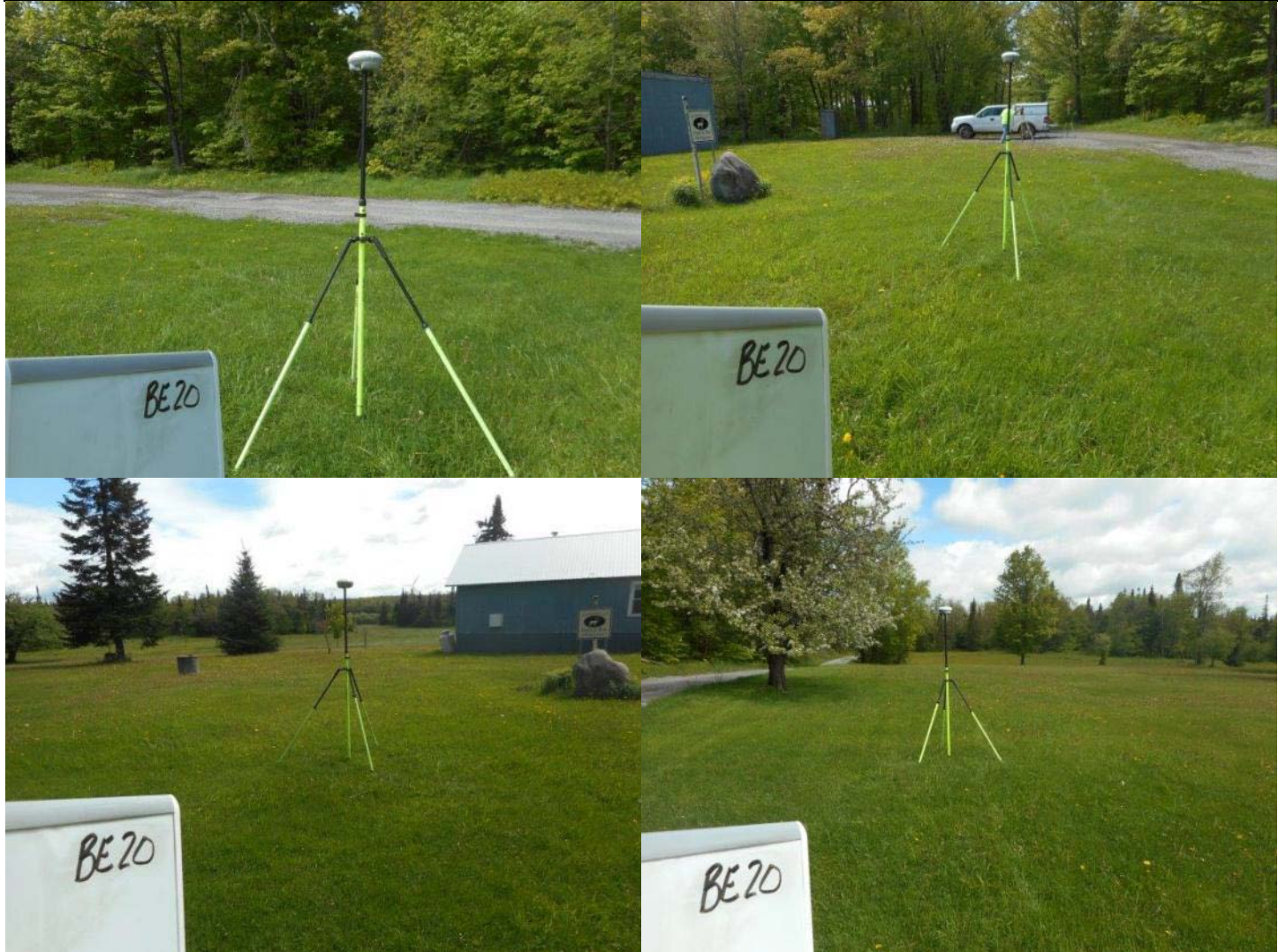
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
413529.707	330639.215	580.193

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-2-17
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	BE20a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	Page

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

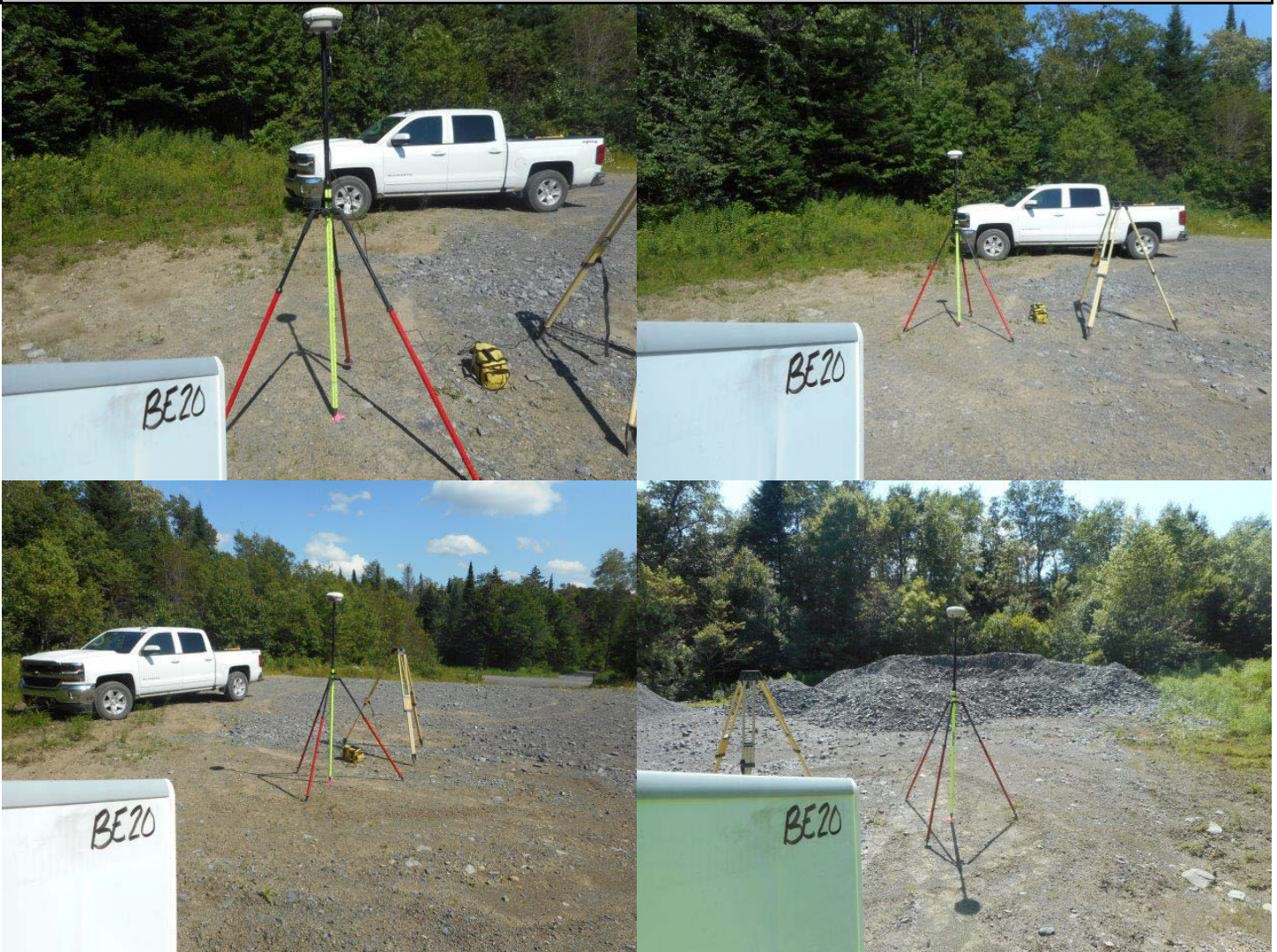
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
405181.141	328678.459	569.400

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	7-9-17
RMSE Hz	0.018
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	BE21
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Long Tom Mountain

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
588661.543	139604.273	528.496

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-16-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE22
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Childwold

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

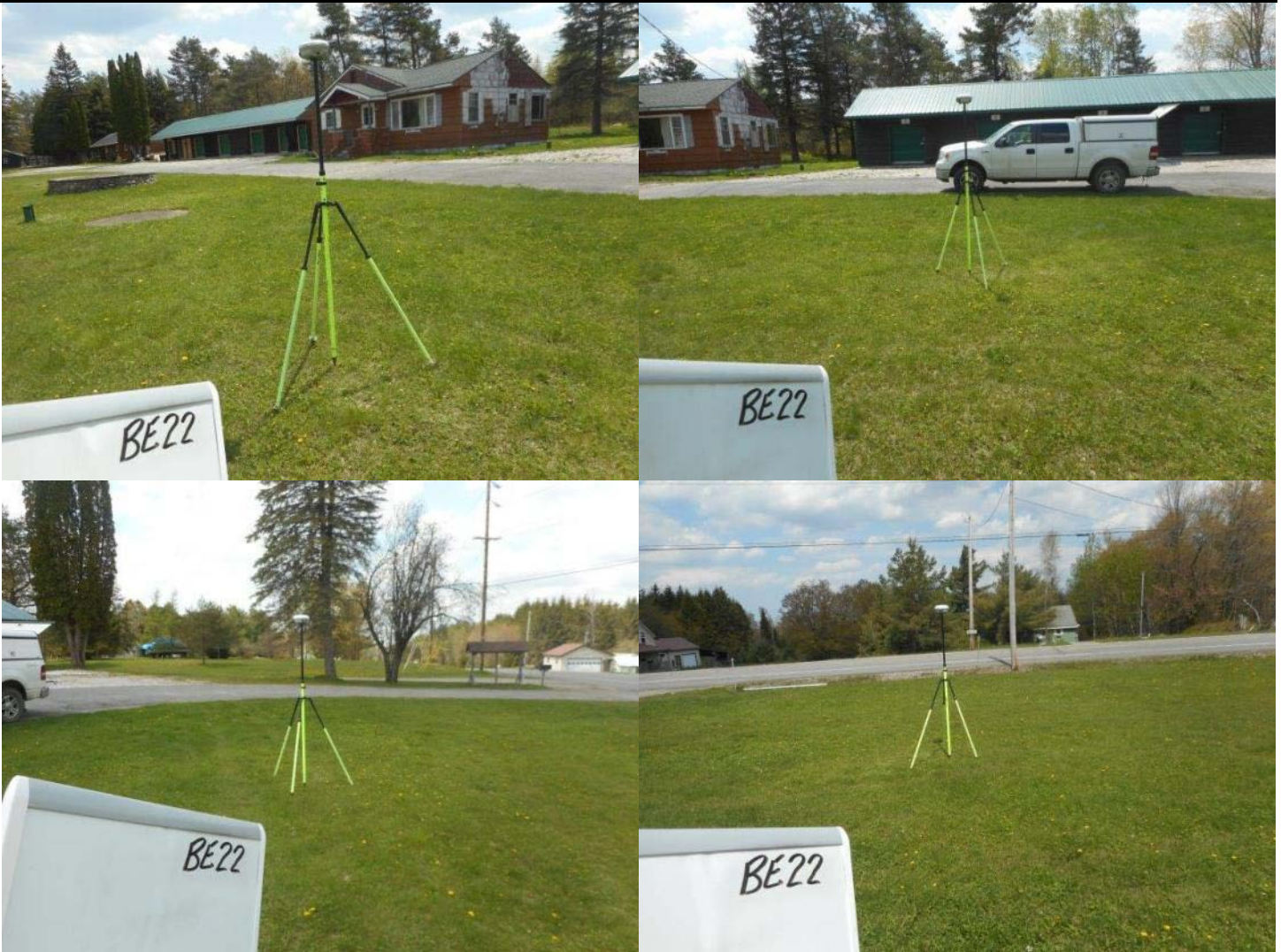
Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
605681.970	137843.837	522.877

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-17-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:







Point ID	BE23
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Cranberry Lake

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
598709.411	123156.092	456.752

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE24
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Newton Falls

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
597553.520	110547.906	420.853

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-17-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE25
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Fine

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
600285.325	98363.998	304.778

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-19-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE26
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Harisville

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
594309.849	87510.196	239.895

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	BE27
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Lake Bonaparte

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
601831.944	78479.808	209.347

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-19-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE28
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Edwards

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

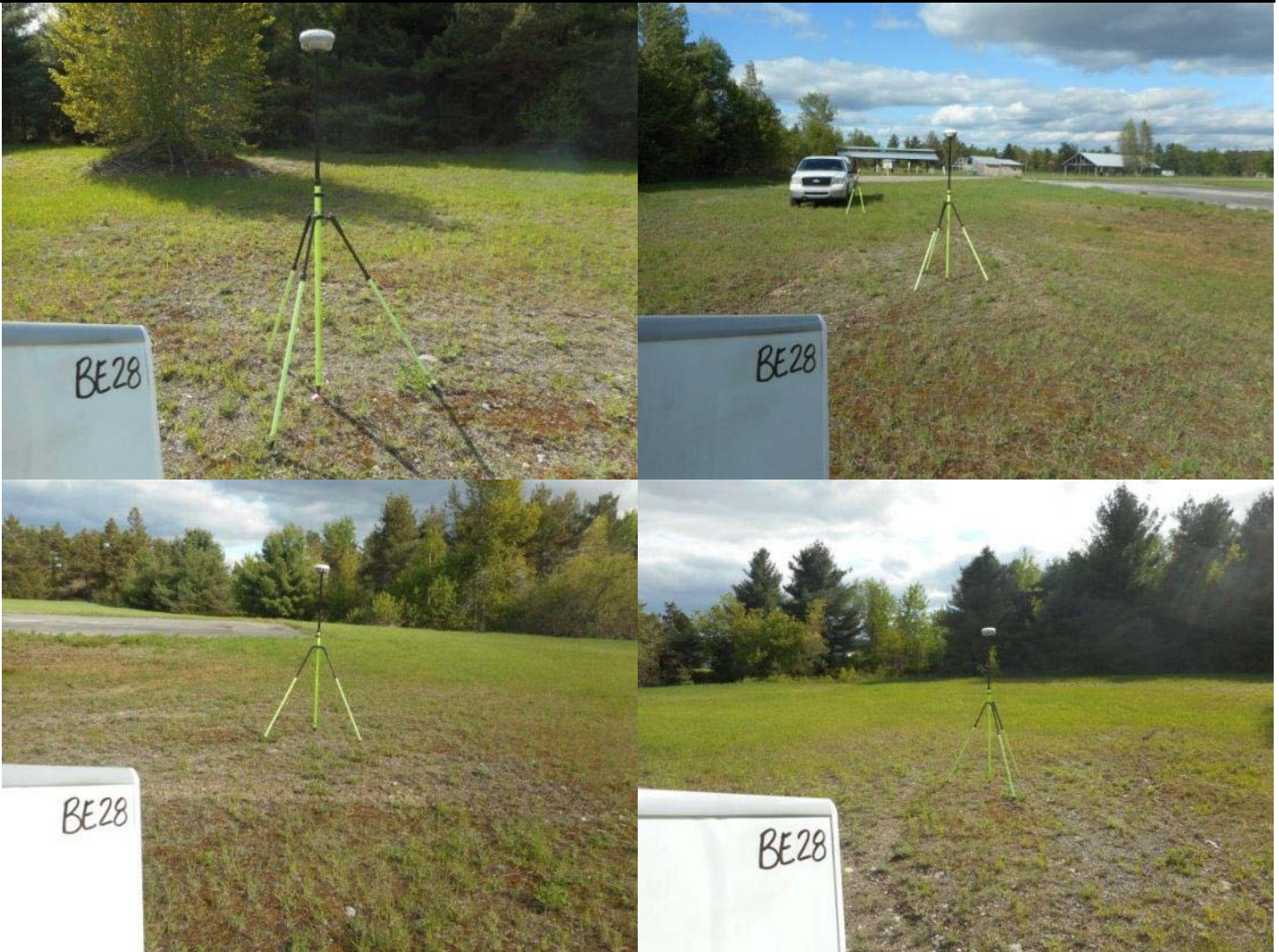
Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
610299.997	89514.041	200.554

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-19-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	BE29
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Degrasse

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
611226.873	101955.103	270.006

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	BE30
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Tooley Pond

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
605069.130	114410.857	427.247

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-17-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:







Point ID	BE31
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Childwold

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
610266.804	132012.047	435.390

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-17-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE32
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Brother Ponds

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
601641.829	128206.119	454.481

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.026
RMSE Z	0.026
GPS Method	NYSNET

PHOTOS:





Point ID	BE33
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Mount Matumbia

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
602556.015	149760.801	483.920

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-16-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE33a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Childwold

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

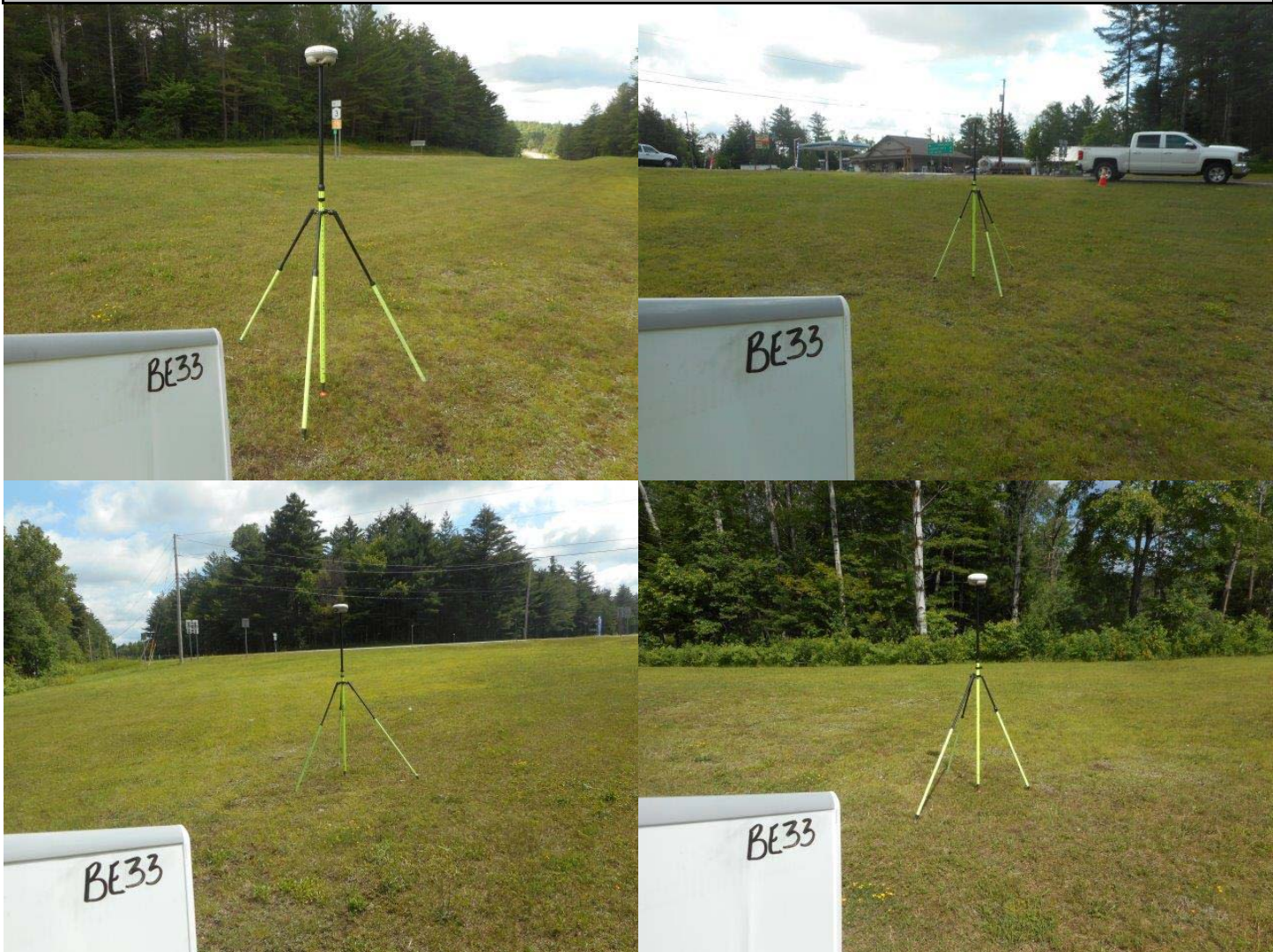
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
132347.685	606299.621	466.933

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	7-9-17
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	NYSNET

PHOTOS:





Point ID	BE34
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Richville

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

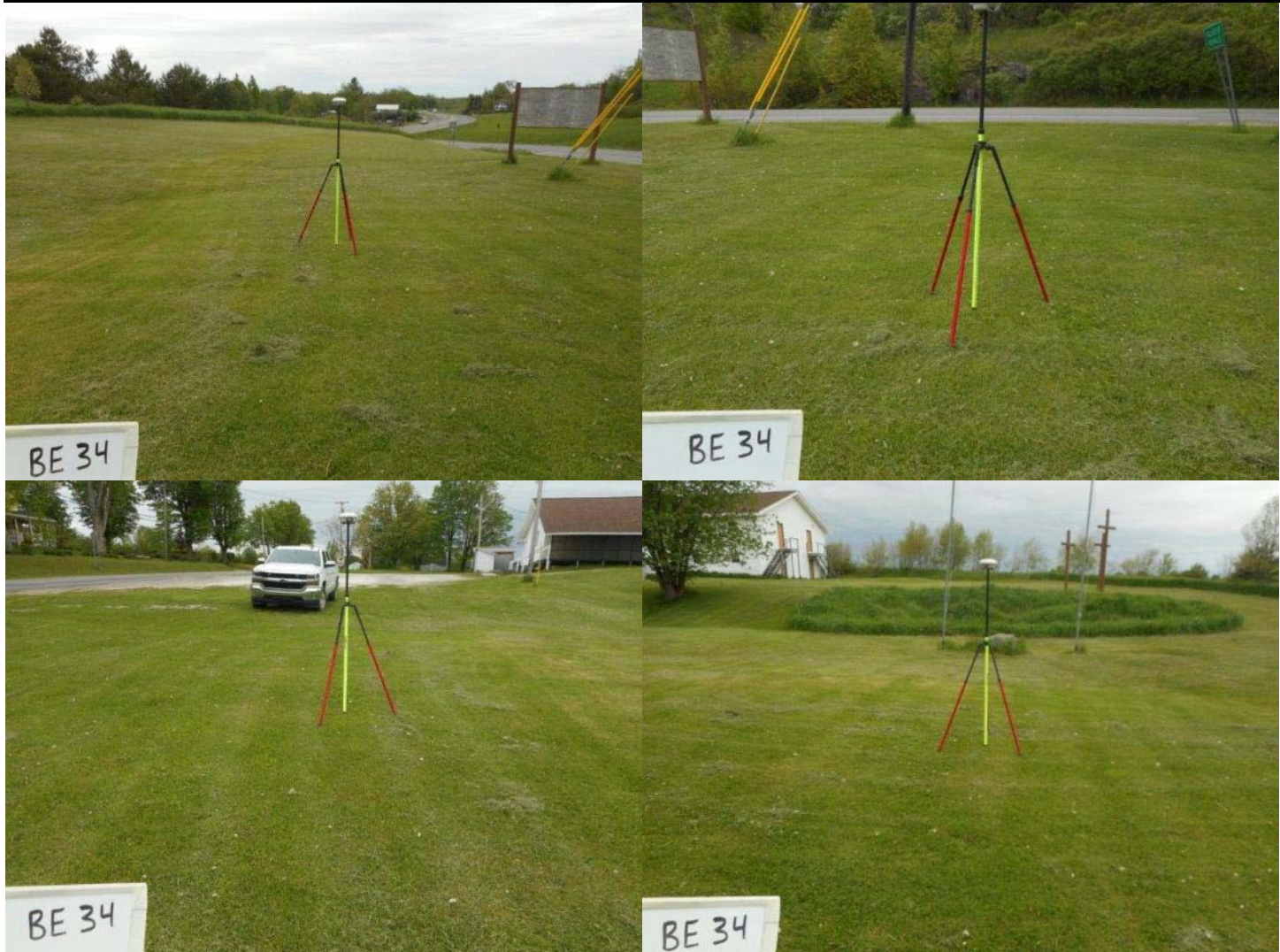
Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
620959.447	79203.435	122.652

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	BE35
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Pope Mills

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
621975.930	67514.518	118.017

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE36
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Hermon

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
621194.483	91062.044	213.000

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5153480435
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-23-17
RMSE Hz	0.003
RMSE Z	0.003
GPS Method	NYSNET

PHOTOS:





Point ID	BE37
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	West Pierrepont

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

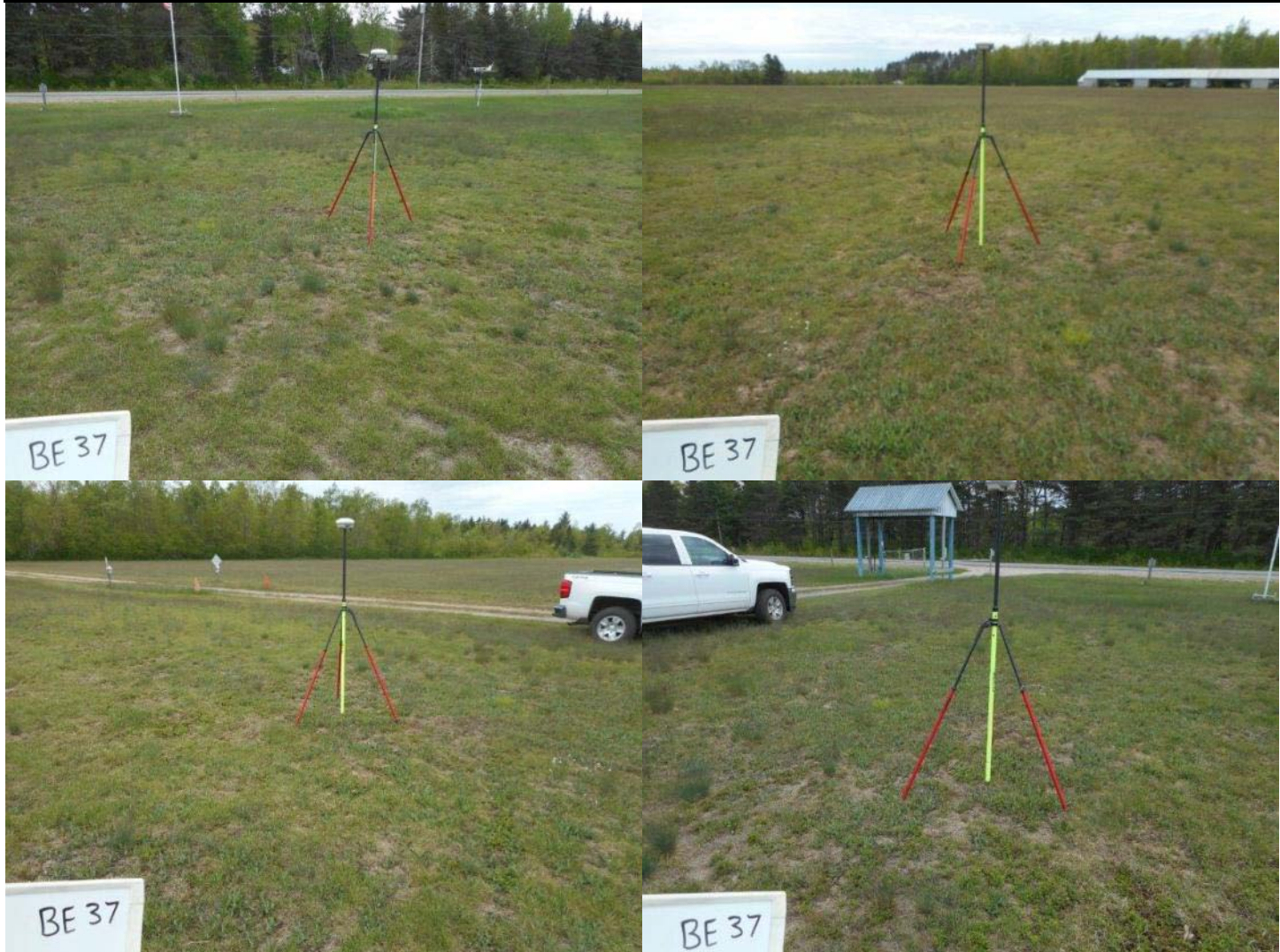
Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
617035.378	104927.281	247.786

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:







Point ID	BE38
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
621373.516	126229.449	404.486

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-18-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	BE39
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
623885.228	126837.050	398.052

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	BE40
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Mount Matumbla

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
608048.730	148360.798	464.142

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5153480435
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-23-17
RMSE Hz	0.004
RMSE Z	0.004
GPS Method	NYSNET

PHOTOS:





Point ID	BE41
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Upper Saranac Lake

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
612465.521	164164.918	497.184

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-16-17
RMSE Hz	.0007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE41a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	St Regis Mountain

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
169716.178	622498.515	507.840

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	7-9-17
RMSE Hz	0.009
RMSE Z	0.022
GPS Method	NYSNET

PHOTOS:





Point ID	BE42
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Saint Regis Mountain

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
621778.543	165987.191	494.652

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE43
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Meacham Lake

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
630706.099	165573.570	504.364

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-13-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	Static

PHOTOS:





Point ID	BE44
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Meno

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
630967.476	154288.911	474.719

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5106461161
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.004
RMSE Z	0.004
GPS Method	NYSNET

PHOTOS:







Point ID	BE45
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
627249.537	121153.542	365.225

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-18-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE46
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Rainbow Falls

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
632740.842	131187.997	394.785

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	BE47
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Colton

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
630438.727	119200.821	282.397

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	BE48
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	West Pierrepont

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
628503.785	105287.308	230.324

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	BE49
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Canton

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
631377.641	95919.715	159.176

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-18-17
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	BE50
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Edwardsville

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
641733.183	70222.540	118.661

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	BE51
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Colton

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
638721.038	118378.545	267.995

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	BE52
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Sylvan Falls

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
641048.822	139996.291	432.576

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-15-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:







Point ID	BE53
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Lake Ozonia

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

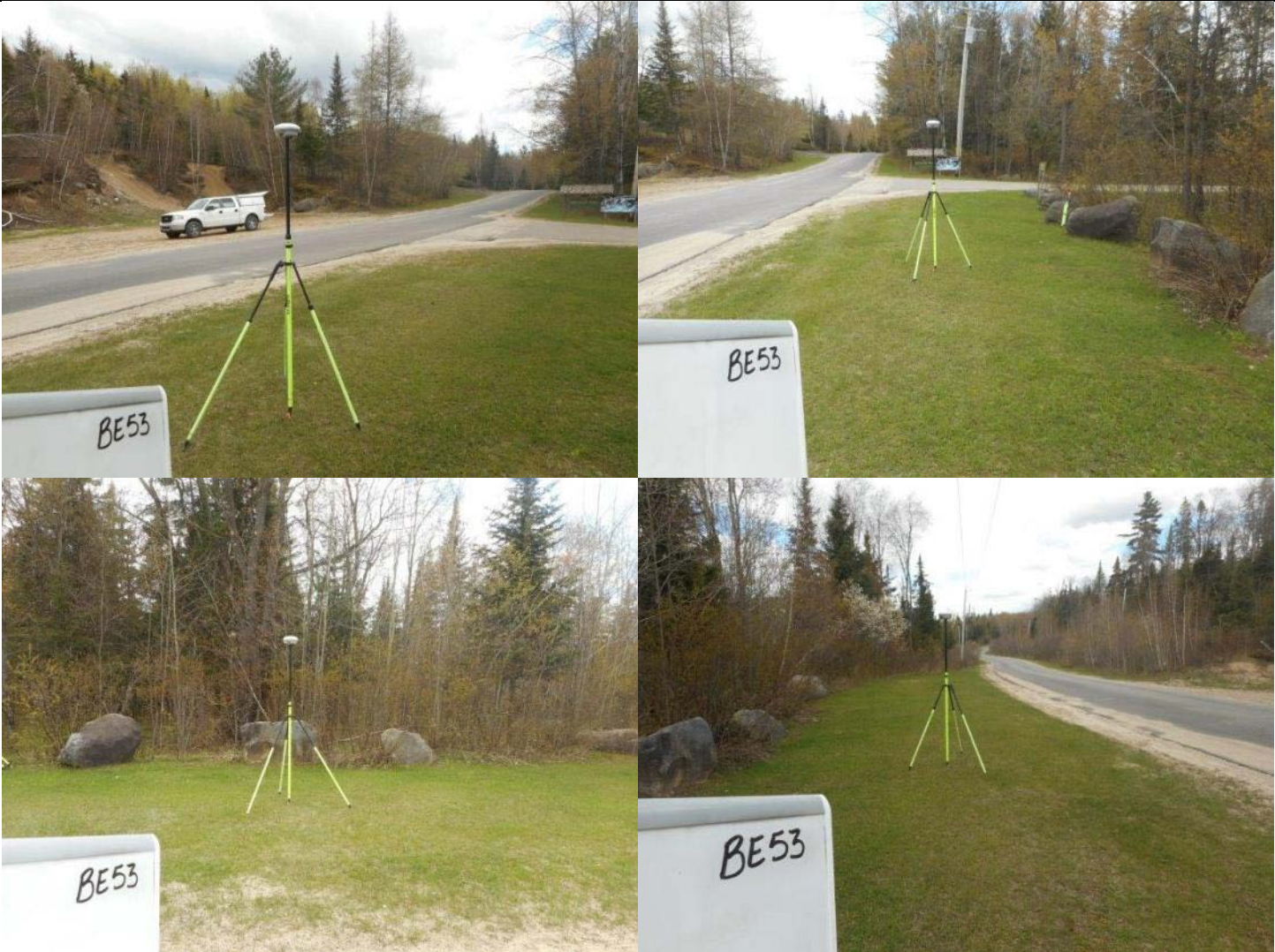
Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
639982.977	149885.687	437.235

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-12-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE54
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Meacham Lake

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
639679.705	162260.997	444.377

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-13-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE55
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Owl Head

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
650915.285	179170.941	461.434

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-12-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	BE56
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Lake Titus

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
651514.559	164518.697	463.068

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-12-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	BE57
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Santa Clara

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
650763.960	151016.334	422.815

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-12-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE58
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Parishville

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
652840.760	122841.468	127.240

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE59
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Potsdam

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
653177.788	110960.768	111.719

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-10-17
RMSE Hz	.0008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE60
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Morley

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
655795.510	98877.406	89.658

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:







Point ID	BE61
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Waddington

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
666735.557	98906.915	84.596

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-10-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE62
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Brashear Falls

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
661412.083	123832.239	110.710

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-10-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE63
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Bangor

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
663860.832	158103.436	236.980

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE64
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Chateaugay

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
672105.792	186717.656	408.753

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE65
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Chasm Falls

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
669667.872	177668.832	362.994

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-11-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE66
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Malone

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
671062.138	164338.966	195.947

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	BE67
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Fort Covington

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
672105.426	151772.318	90.808

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-11-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	BE68
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Bombay

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
674446.679	141068.748	65.546

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:







Point ID	BE69
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Bombay

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
681146.813	143004.853	67.008

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	BE70
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Fort Covington

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
683506.291	150213.812	51.930

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE71
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Burke

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
681769.791	169921.491	94.574

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	BE72
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Malone

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
659807.138	165617.814	389.446

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-12-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	BE73
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Norfolk

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
660901.736	111371.201	103.255

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





## Urban Area Point Log Sheets



Point ID	UA01
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Jamesville

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
324682.813	289739.766	396.686

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.007
RMSE Z	0.014
GPS Method	NYSNET

PHOTOS:





Point ID	UA01a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Jamesville

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
325992.717	292523.466	221.452

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	7-10-17
RMSE Hz	0.013
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:







Point ID	UA02
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Syracuse East

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

Coordinate System	NAD83(2011)
	NY SPCS – CENTRAL ZONE
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
346916.253	288769.376	125.176

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	UA03
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Cicero

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
355670.304	293565.718	121.492

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-9-17
RMSE Hz	0.007
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	UA04
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Camden West

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
372013.008	317236.314	161.365

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-3-17
RMSE Hz	0.007
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	UA05
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Lee Center

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
364331.415	336297.505	146.921

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-7-17
RMSE Hz	0.007
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	UA06
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Oswegatchie

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

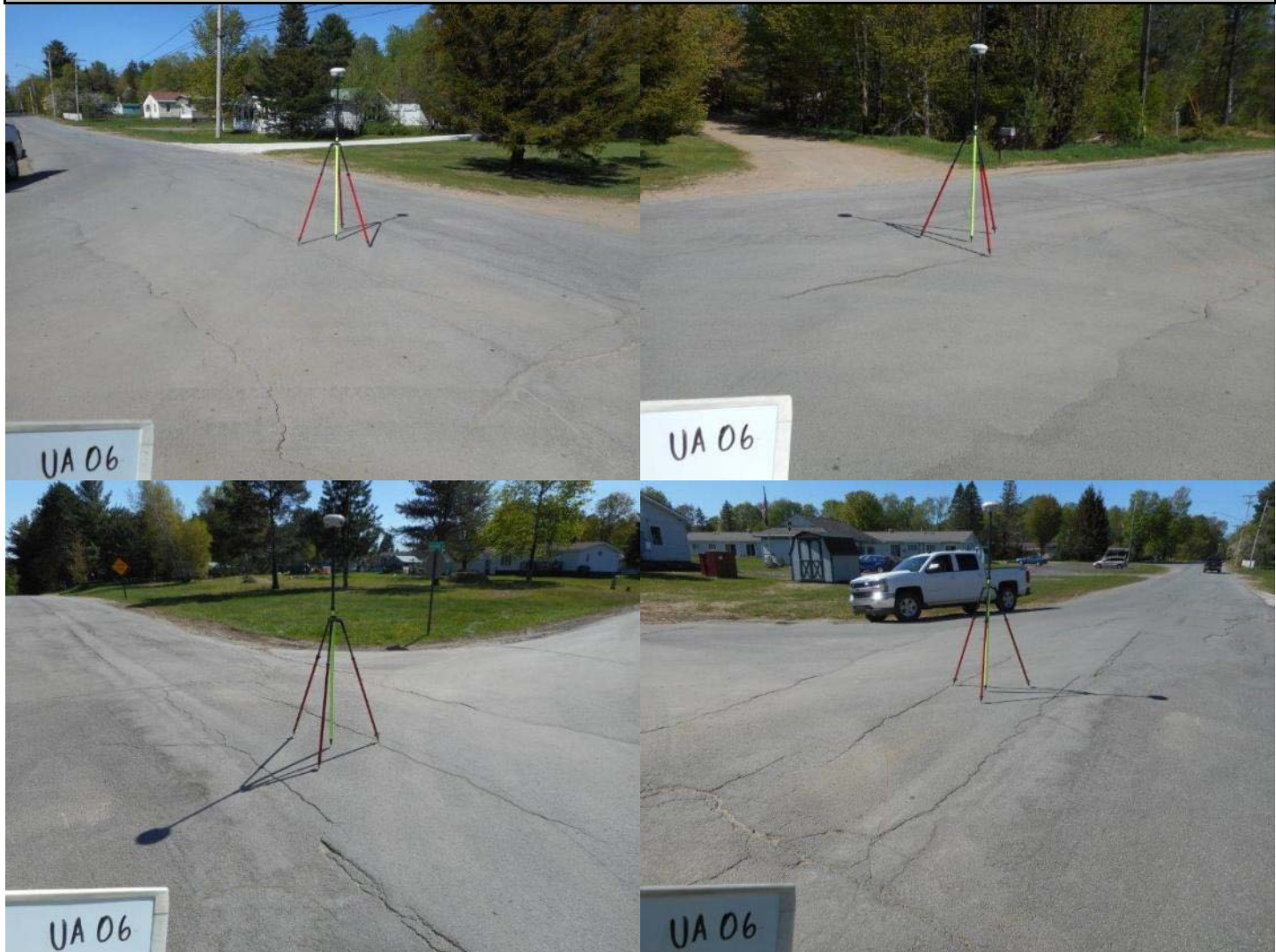
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
590703.324	107495.379	453.705

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	UA07
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Piercefield

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
599455.557	144806.710	480.149

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-16-17
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	UA08
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Gouverneur

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

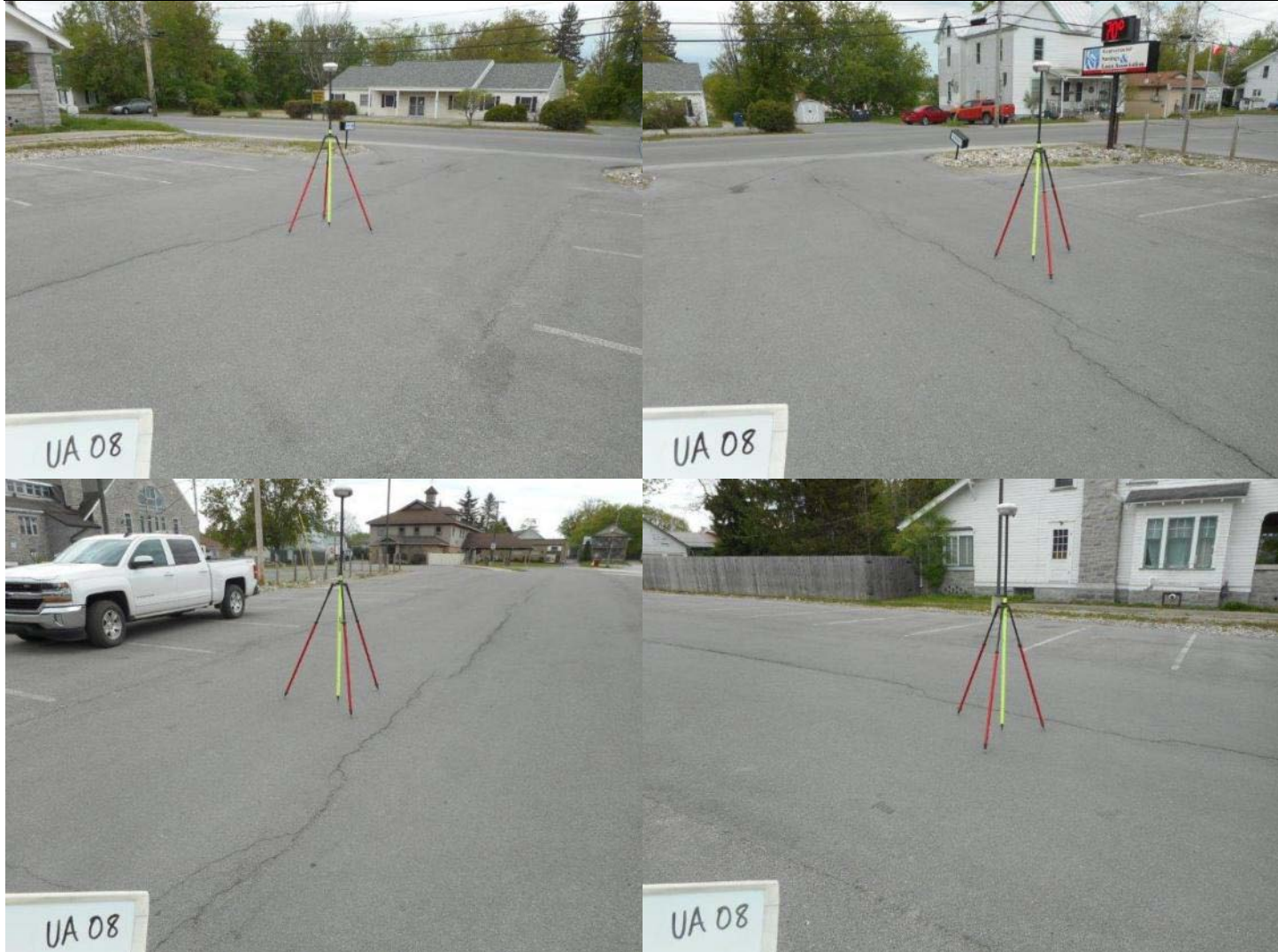
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
611345.452	72739.455	132.693

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	UA09
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Hammond

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
623802.957	54675.209	118.651

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:







Point ID	UA10
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Edwardsville

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
636161.616	60873.841	91.764

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-19-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	UA11
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Heuvelton

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
642585.076	78307.878	90.003

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	UA12
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Canton

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

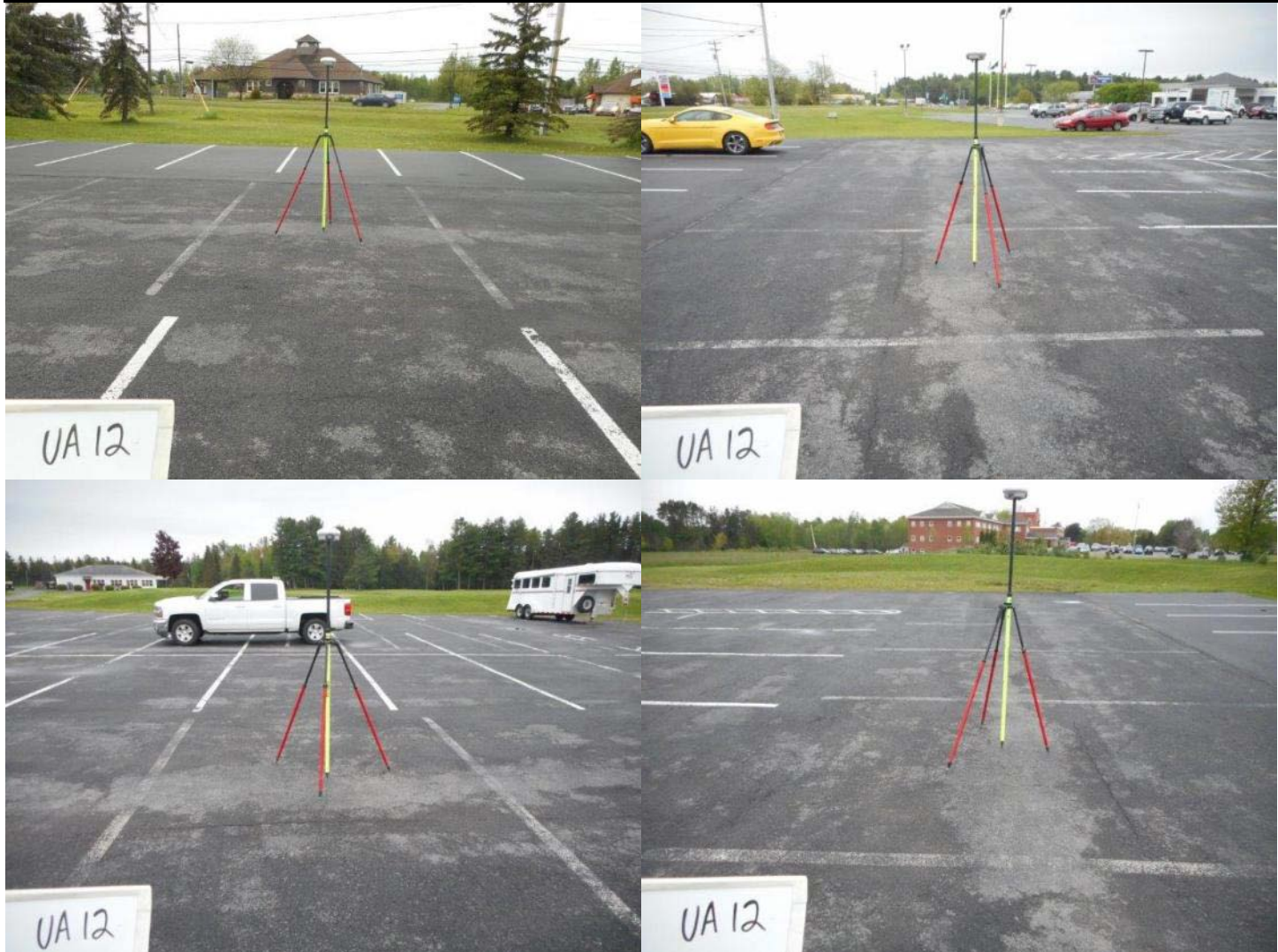
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
640235.276	98315.682	115.814

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	UA13
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Parishville

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
643847.616	125368.943	272.383

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	UA14
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Nicholville

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
651357.395	137401.902	237.362

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	UA15
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Lisbon

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
655443.771	85031.777	98.240

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	UA16
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	North Lawrence

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
663201.046	135973.113	102.199

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	UA17
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Brushton

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
665207.351	148336.864	136.975

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-11-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:







Point ID	UA18
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Massena

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
676213.574	119296.708	70.682

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	UA19
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Syracuse East

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
336453.640	288467.579	174.659

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	UA20
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Louisville

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

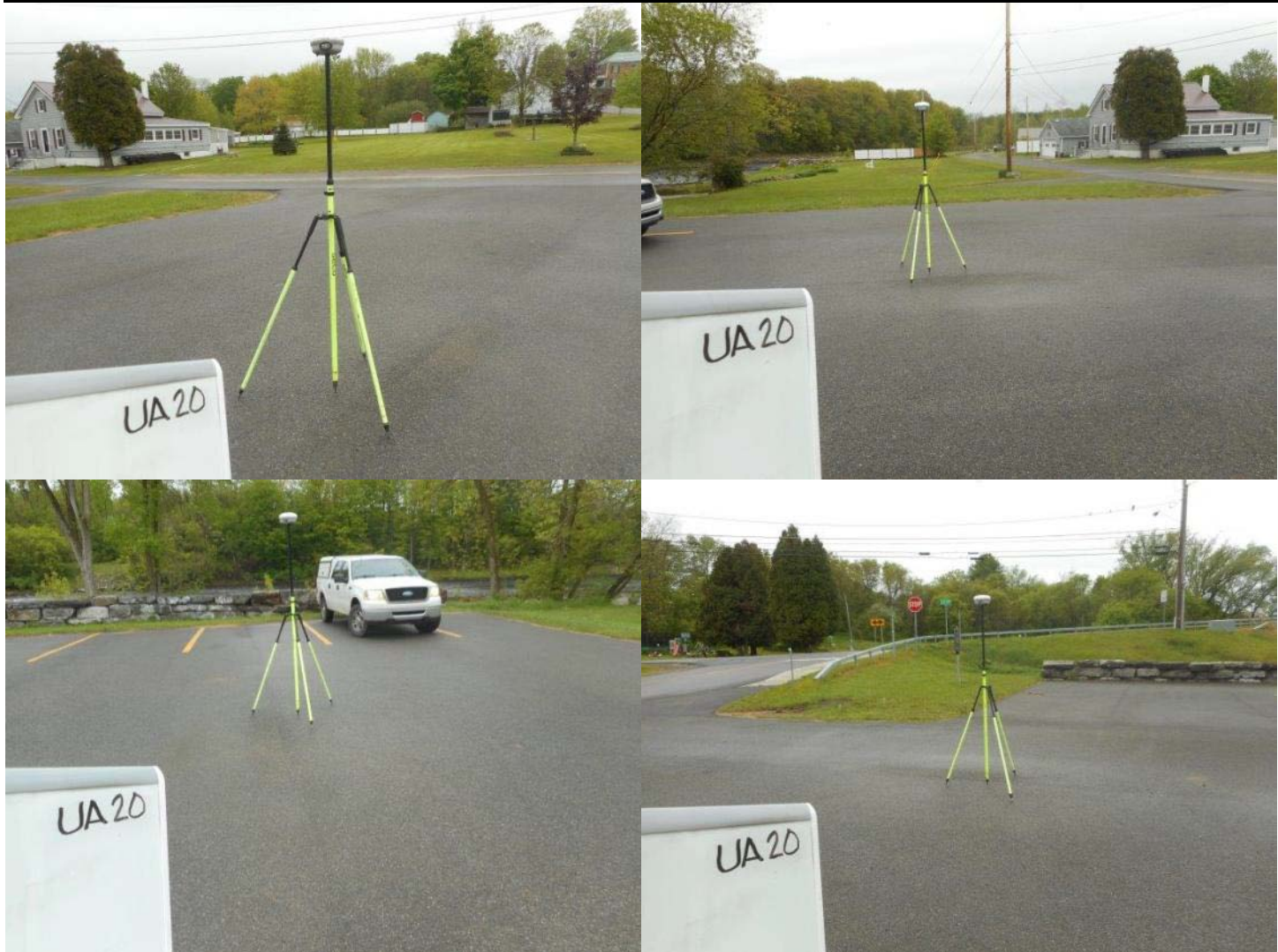
Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
673713.152	109217.380	60.053

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	UA21
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Hogansburg

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
682171.957	130601.811	58.176

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-23-17
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	UA22
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Chateaugay

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
677004.503	183280.663	281.779

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	UA23
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Potsdam

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

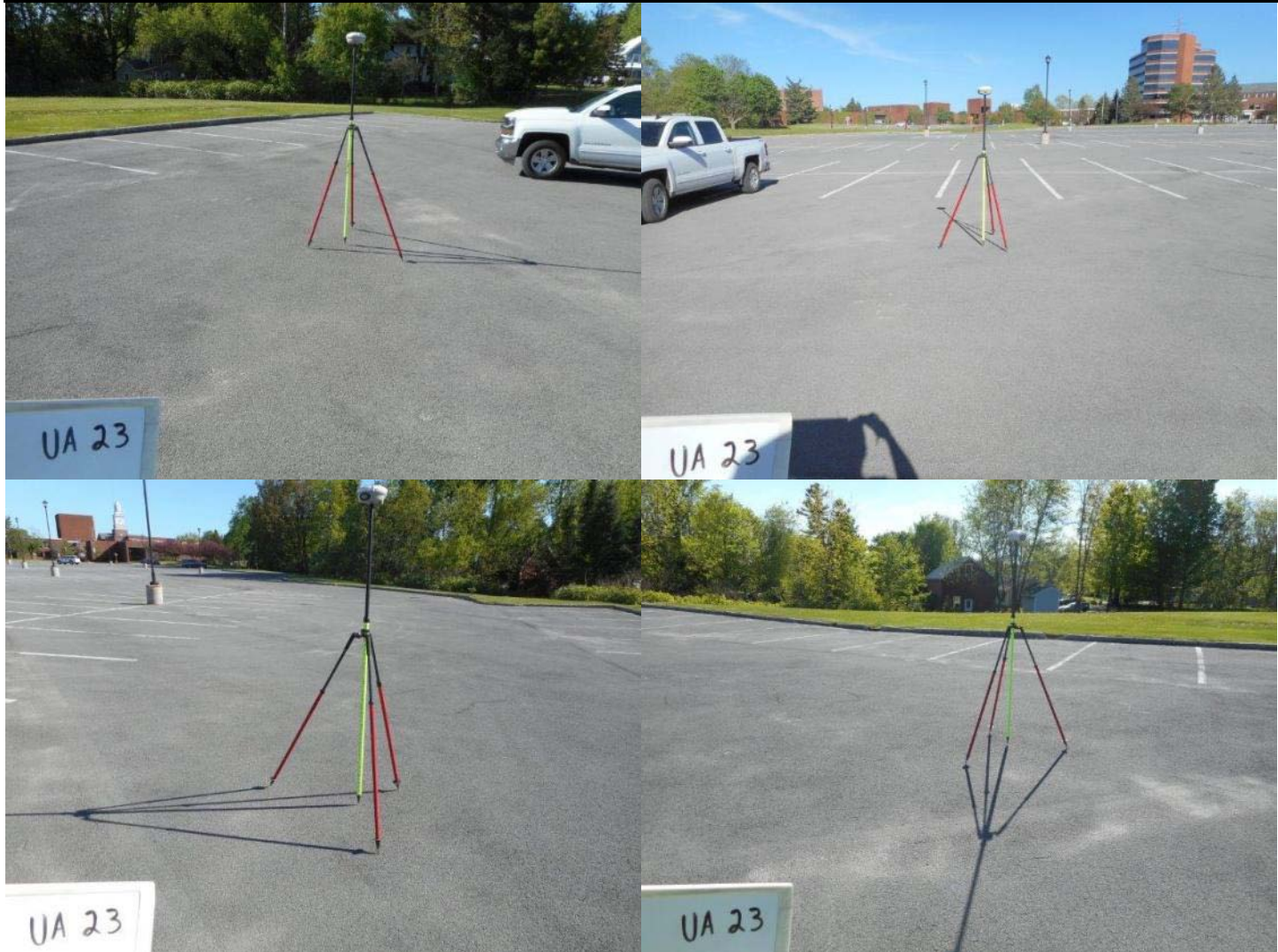
Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
647826.593	112077.310	131.471

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	UA24
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Rensselaer Falls

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
630090.734	88390.197	135.468

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-23-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	UA25
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Jamesville

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

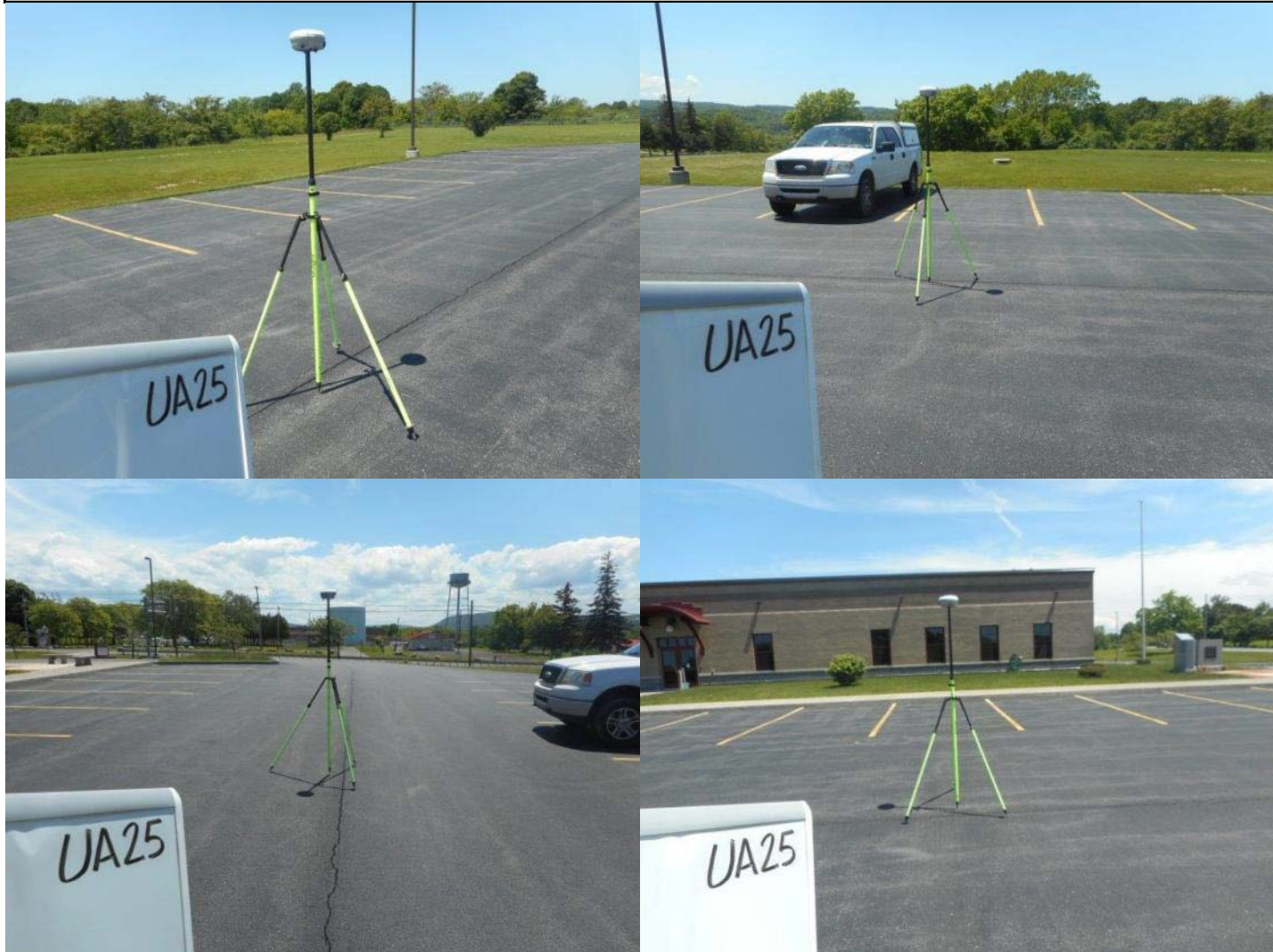
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
332285.626	292427.695	232.404

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	NYSNET

PHOTOS:







Point ID	UA26
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Oran

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
332382.570	301048.626	235.754

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	UA27
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondoga
Quad	Brewerton

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
359672.702	285949.078	119.351

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	UA28
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Cicero

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
353265.936	288046.770	131.235

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-9-17
RMSE Hz	0.007
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	UA29
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Central Square

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
371003.143	284971.016	147.153

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	UA30
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Pennellville

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

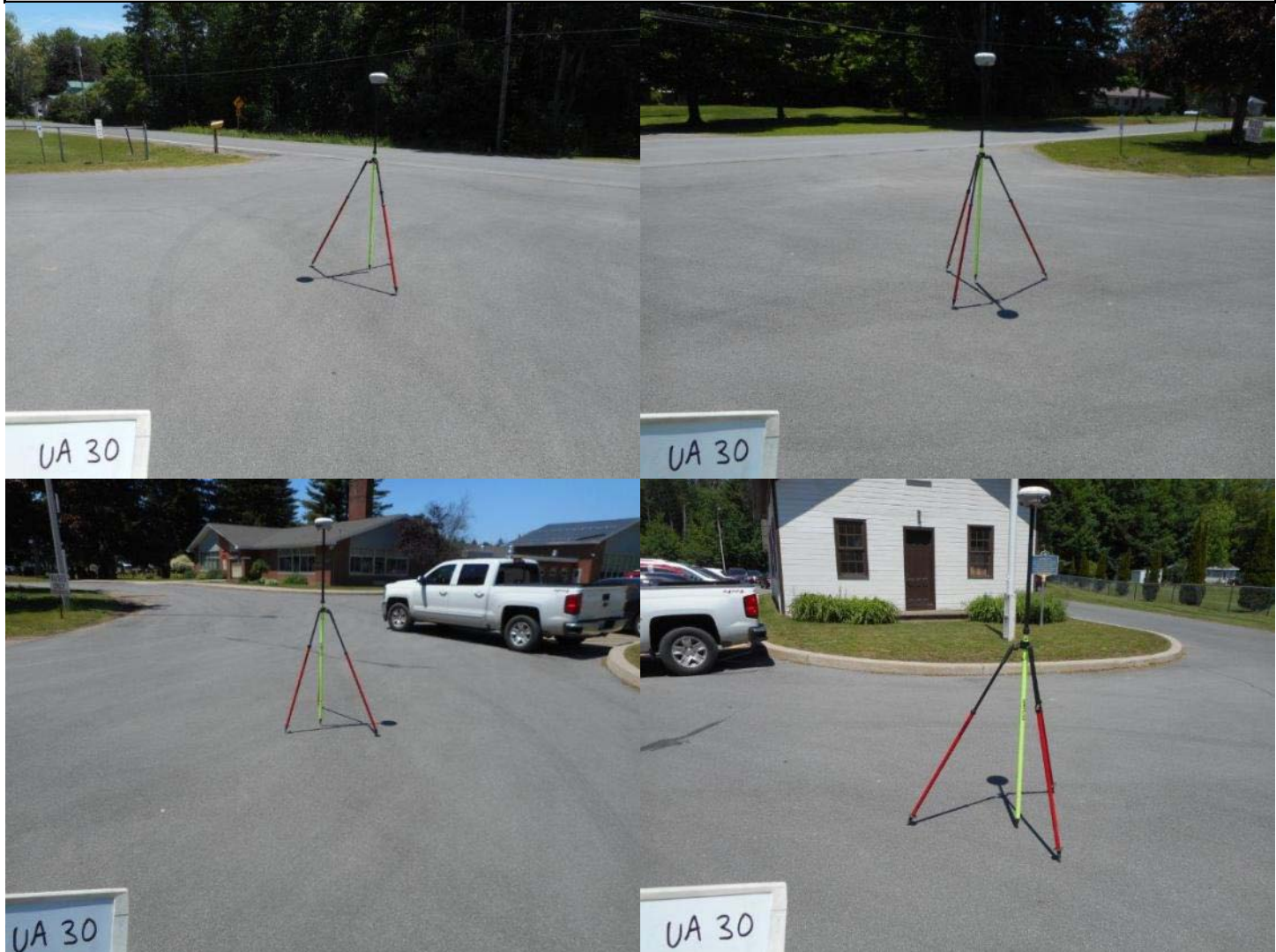
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
373787.949	274582.229	142.759

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	UA31
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Pennellville

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

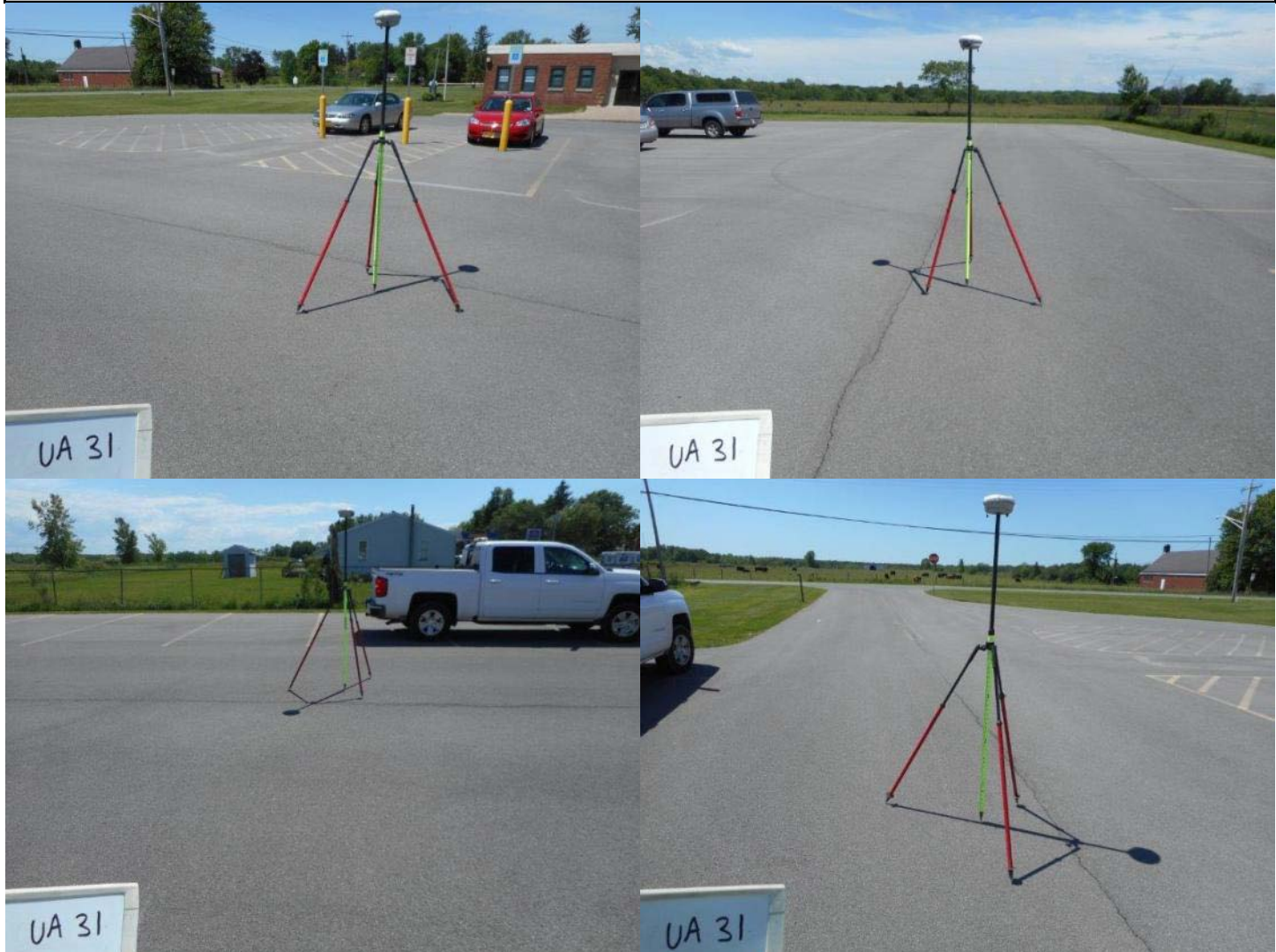
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
364289.805	275348.926	127.595

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.013
RMSE Z	0.018
GPS Method	NYSNET

PHOTOS:





Point ID	UA32
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Syracuse East

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
340284.041	294686.599	130.735

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	UA33
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Manilus

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

Coordinate System	NAD83(2011)
	NY SPCS – CENTRAL ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
342247.994	301358.029	128.305

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:







Point ID	UA34
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Cicero

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
352150.151	297149.262	120.148

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-9-17
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	UA35
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Syracuse East

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
336594.721	295917.184	131.387

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	UA36
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Brewerton

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

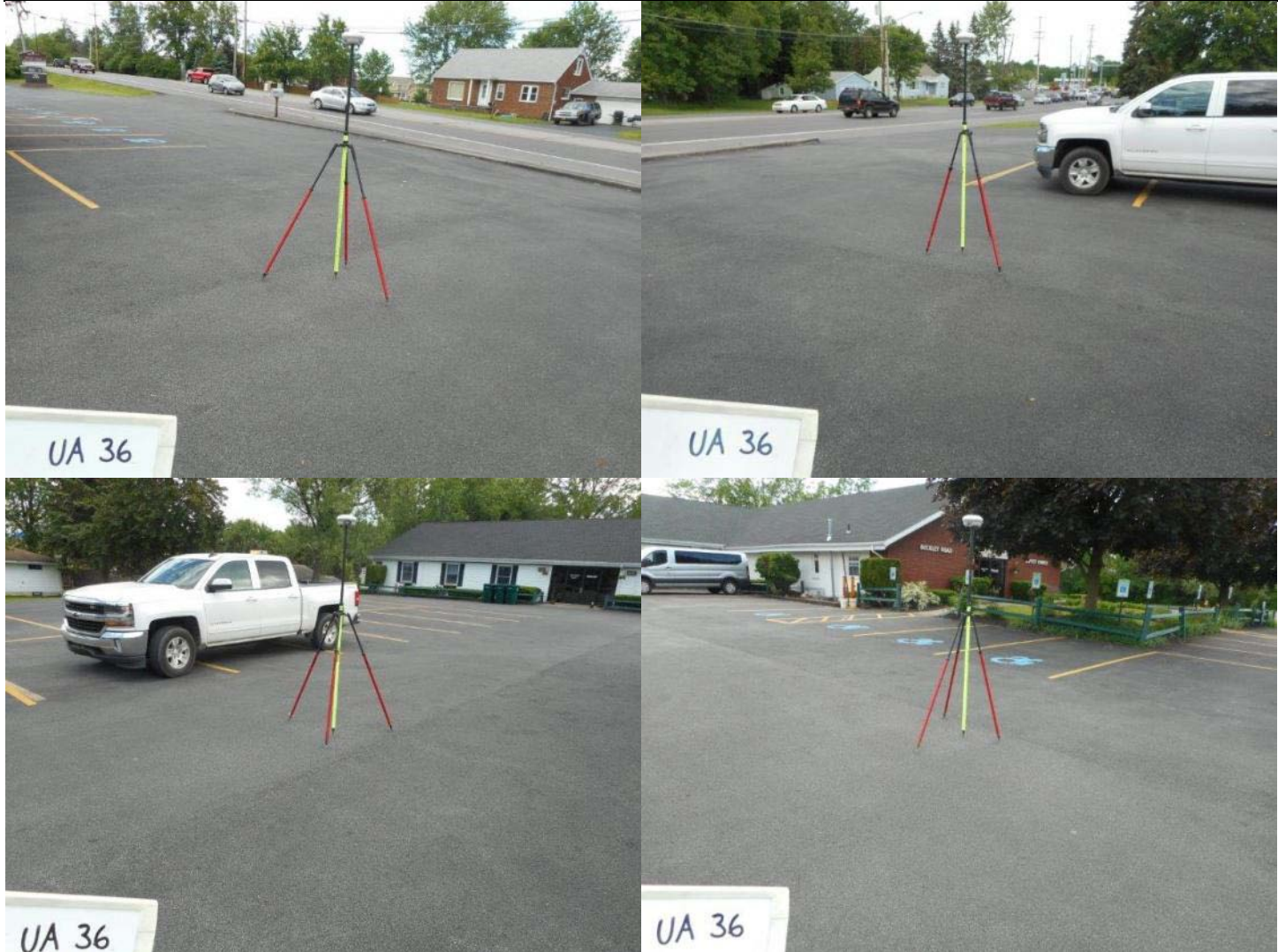
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
348556.151	283412.049	136.411

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	UA37
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Central Square

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

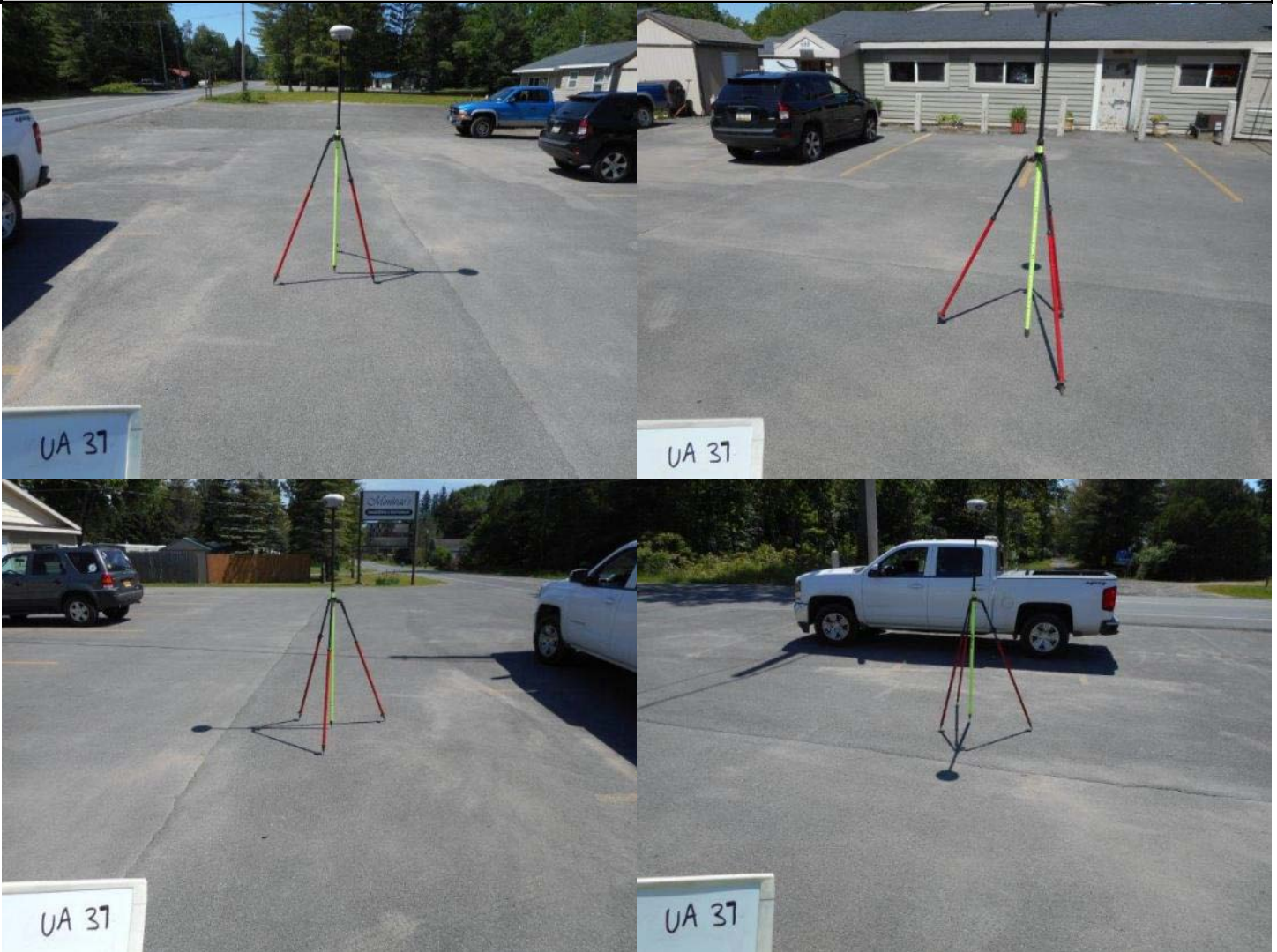
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
361212.394	278836.468	130.911

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	NYSNET

PHOTOS:





Point ID	UA38
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Oran

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
320121.178	304782.170	280.545

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	UA39
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Pennellville

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

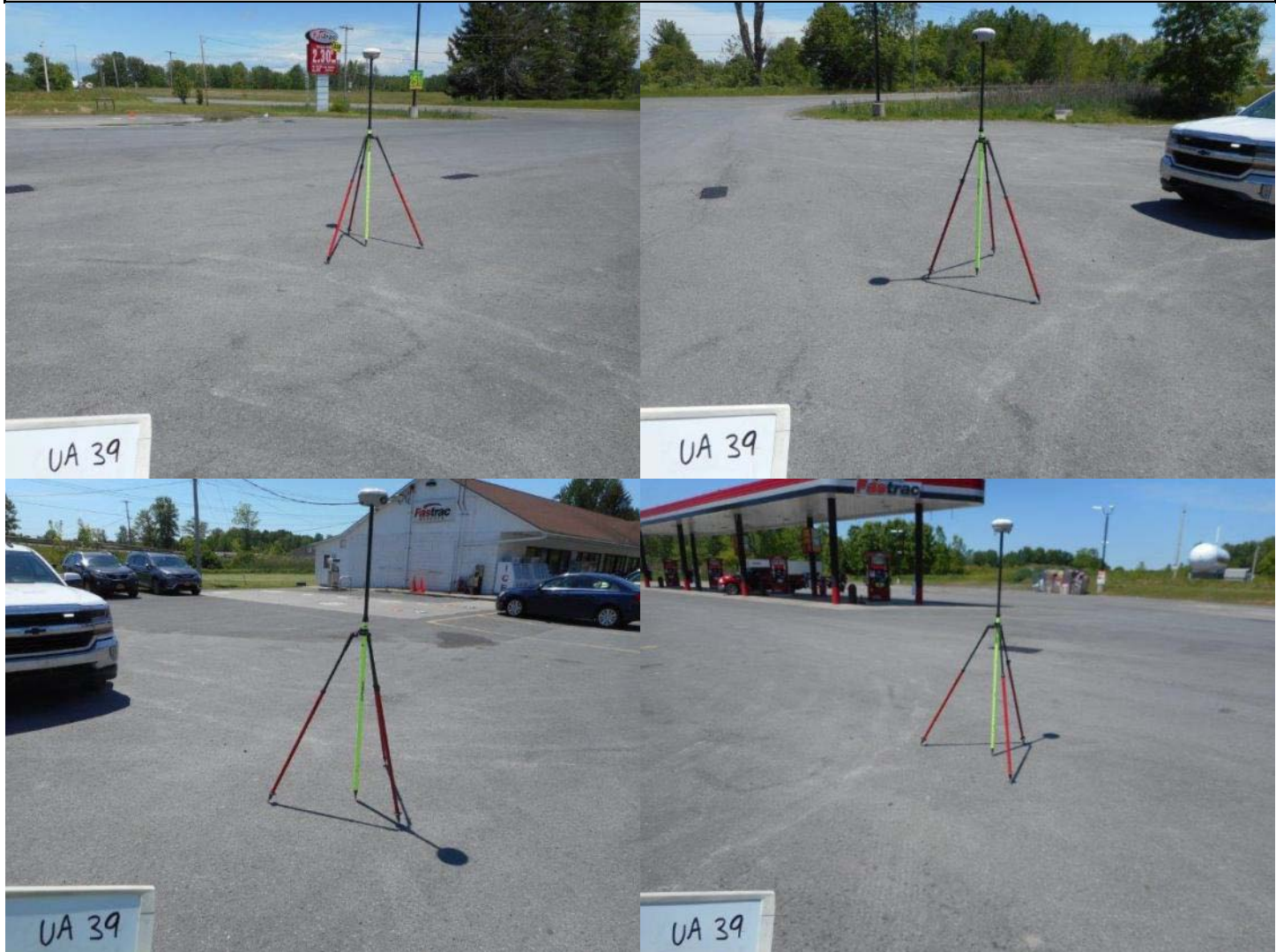
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
361500.084	272517.309	118.184

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.015
RMSE Z	0.021
GPS Method	NYSNET

PHOTOS:





Point ID	UA40
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Central Square

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
365172.824	285365.841	138.838

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.013
GPS Method	NYSNET

PHOTOS:





Point ID	UA41
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Central Square

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

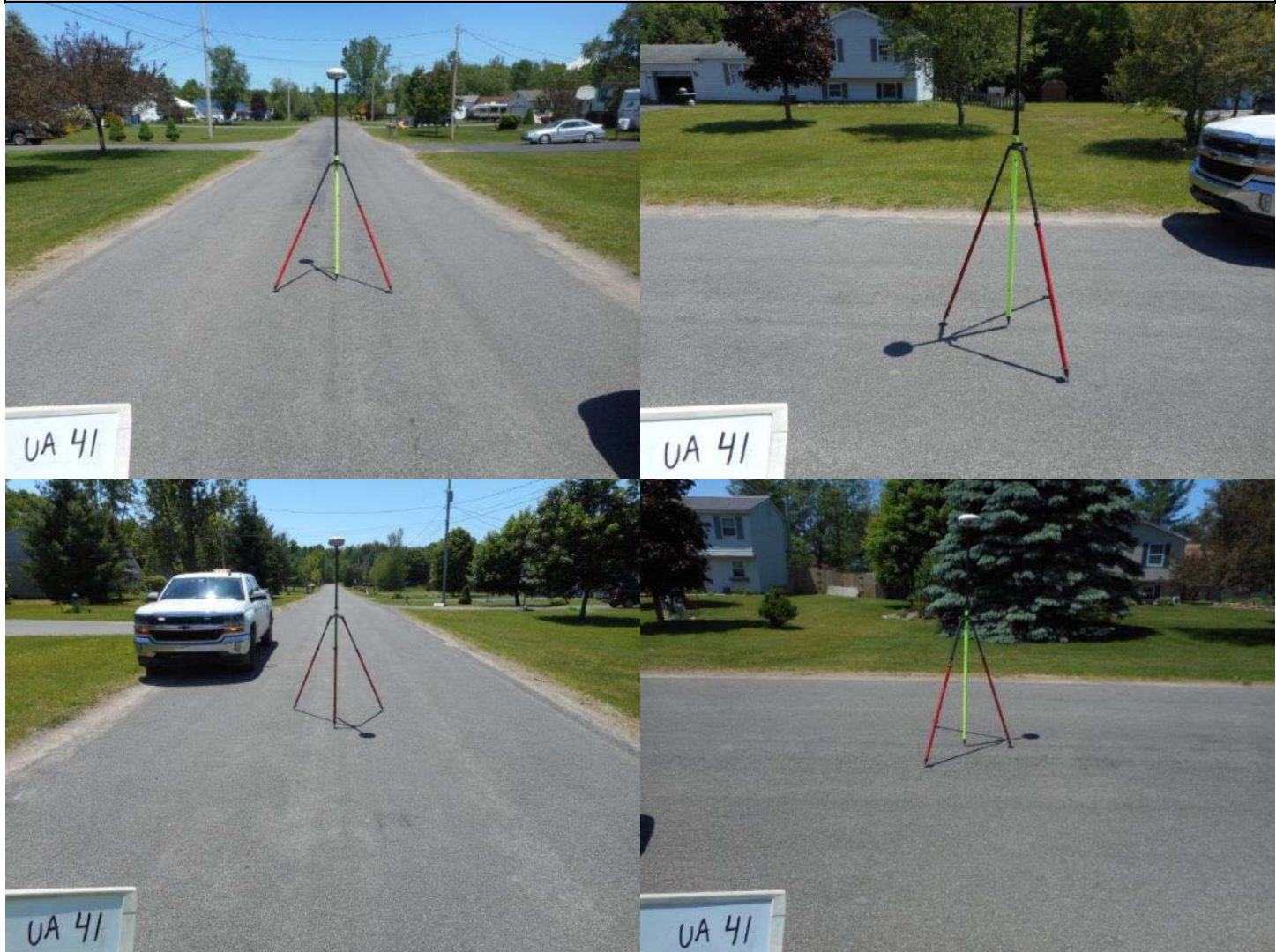
Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
372465.222	285656.841	144.859

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:







## Tall Weed Point Log Sheets



Point ID	TW01
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Deruyter

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
314213.472	305822.582	393.789

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	NYSNET

PHOTOS:





Point ID	TW02
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Oran

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
324830.199	301801.577	379.811

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	TW03
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Manlius

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
335702.217	300692.564	256.641

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	TW04
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Brewerton

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
353969.951	280716.098	120.066

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	NYSNET

PHOTOS:





Point ID	TW05
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Central Square

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
366351.435	280214.800	129.846

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.007
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	TW06
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Morley

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
653645.443	96857.416	98.617

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	NYSNET

PHOTOS:





Point ID	TW07
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Nicholville

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
650859.119	137025.705	247.540

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:







## Forest Point Log Sheets



Point ID	FO01
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Tully

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
310554.354	289249.485	375.762

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-4-17
Occupy PT	BE03
Back Sight PT	CA03

PHOTOS:





Point ID	FO01a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Tully

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
312883.350	291978.262	377.930

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	7-10-17
Occupy PT	CP01
Back Sight PT	BS01

PHOTOS:





Point ID	FO02
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Jamesville

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
324670.442	289778.461	399.457

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-7-17
Occupy PT	CA04
Back Sight PT	UA01

PHOTOS:





Point ID	FO02a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Jamesville

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
326013.473	292515.531	220.857

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	7-10-17
Occupy PT	UA01
Back Sight PT	BS02

PHOTOS:





Point ID	FO03
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Syracuse East

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
346209.657	297115.066	127.444

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-7-17
Occupy PT	CA07
Back Sight PT	BE05

PHOTOS:





Point ID	FO04
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Pennellville

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
370820.558	269816.964	147.674

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-7-17
Occupy PT	CA13
Back Sight PT	BE09

PHOTOS:





Point ID	FO05
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Mallory

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
373097.959	295266.813	184.049

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-3-17
Occupy PT	CA14
Back Sight PT	B/S05

PHOTOS:







Point ID	FO06
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Panther Lake

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
364583.934	303898.005	180.848

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-7-17
Occupy PT	CA15
Back Sight PT	BE10

PHOTOS:





Point ID	FO07
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Panther Lake

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
374210.796	306441.254	219.445

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-3-17
Occupy PT	BE11
Back Sight PT	CA16

PHOTOS:





Point ID	FO08
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Camden West

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
365502.237	316155.877	154.347

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-7-17
Occupy PT	CA17
Back Sight PT	BE12

PHOTOS:





Point ID	FO09
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Camden West

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
372082.402	317233.154	158.964

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-3-17
Occupy PT	UA04
Back Sight PT	CA18

PHOTOS:





Point ID	FO10
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Camden East

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
374097.933	324422.206	272.415

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-3-17
Occupy PT	CA19
Back Sight PT	B/S10

PHOTOS:





Point ID	FO11
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Westernville

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
367193.863	339886.178	194.276

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-3-17
Occupy PT	CA20
Back Sight PT	B/S11

PHOTOS:





Point ID	FO11a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Lee Center

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
370129.069	336932.705	300.374

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	7-10-17
Occupy PT	CP11a
Back Sight PT	BS11a

PHOTOS:





Point ID	FO12
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oneida
Quad	Lee Center

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
364269.872	336306.012	146.390

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-7-17
Occupy PT	UA05
Back Sight PT	CA21

PHOTOS:







Point ID	FO13
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	Point Rock

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
385081.969	329417.355	402.077

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-5-17
Occupy PT	CA25
Back Sight PT	BE16

PHOTOS:





Point ID	FO14
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Williamstown

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
386247.673	303720.652	199.722

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-3-17
Occupy PT	CA26
Back Sight PT	B/S14

PHOTOS:





Point ID	FO15
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Oswego
Quad	Redfield

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
391539.413	312019.918	285.612

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-2-17
Occupy PT	CA27
Back Sight PT	BE15

PHOTOS:





Point ID	FO16
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	Paige

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
413485.782	330660.553	580.046

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-2-17
Occupy PT	CA30
Back Sight PT	BE20

PHOTOS:





Point ID	FO16a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	Page

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
405200.061	328674.382	569.911

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	7-9-17
Occupy PT	BE20
Back Sight PT	BS16

PHOTOS:





Point ID	FO17
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Newton Falls

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
593015.082	116459.411	446.394

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-17-17
Occupy PT	CA32
Back Sight PT	B/S17

PHOTOS:





Point ID	FO18
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Long Tom Mountain

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
588632.834	139594.874	528.609

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-16-17
Occupy PT	BE21
Back Sight PT	CA33

PHOTOS:





Point ID	FO19
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Piercefield

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
599423.062	144721.167	479.875

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-16-17
Occupy PT	CA34
Back Sight PT	UA07

PHOTOS:







Point ID	FO20
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Childwold

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
605593.503	136712.712	479.628

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-17-17
Occupy PT	CA35
Back Sight PT	B/S20

PHOTOS:





Point ID	FO21
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Newton Falls

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
597483.017	110491.981	422.779

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-17-17
Occupy PT	CA37
Back Sight PT	BE24

PHOTOS:





Point ID	FO22
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Fine

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
600282.464	98304.202	304.768

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-19-17
Occupy PT	CA38
Back Sight PT	BE25

PHOTOS:





Point ID	FO23
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Lake Bonaparte

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
601877.138	78493.583	211.519

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-19-17
Occupy PT	CA40
Back Sight PT	BE27

PHOTOS:





Point ID	FO24
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Edwards

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
610347.554	89513.478	199.876

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-19-17
Occupy PT	CA41
Back Sight PT	BE28

PHOTOS:





Point ID	FO25
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Newton Falls

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
605094.552	114399.213	429.377

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-17-17
Occupy PT	BE30
Back Sight PT	CA43

PHOTOS:





Point ID	FO26
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Childwold

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
610266.690	132108.605	436.878

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-17-17
Occupy PT	CA44
Back Sight PT	BE31

PHOTOS:





Point ID	FO27
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Pierrepont

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
639730.843	106408.765	147.945

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-17-17
Occupy PT	CA71
Back Sight PT	B/S27

PHOTOS:







Point ID	FO28
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Mount Matumbia

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
602526.251	149782.806	484.006

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-16-17
Occupy PT	CA46
Back Sight PT	BE33

PHOTOS:





Point ID	FO28a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Childwold

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
132425.547	606343.443	470.368

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	7-9-17
Occupy PT	CP28
Back Sight PT	BE33

PHOTOS:





Point ID	FO29
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Waddington

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
666682.964	98969.078	86.087

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-10-17
Occupy PT	CA86
Back Sight PT	BE61

PHOTOS:





Point ID	FO30
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Edwards

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
621210.266	89775.140	167.735

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-19-17
Occupy PT	CA51
Back Sight PT	B/S30

PHOTOS:





Point ID	FO31
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
620812.333	124758.795	437.922

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-17-17
Occupy PT	CA53
Back Sight PT	B/S31

PHOTOS:





Point ID	FO32
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

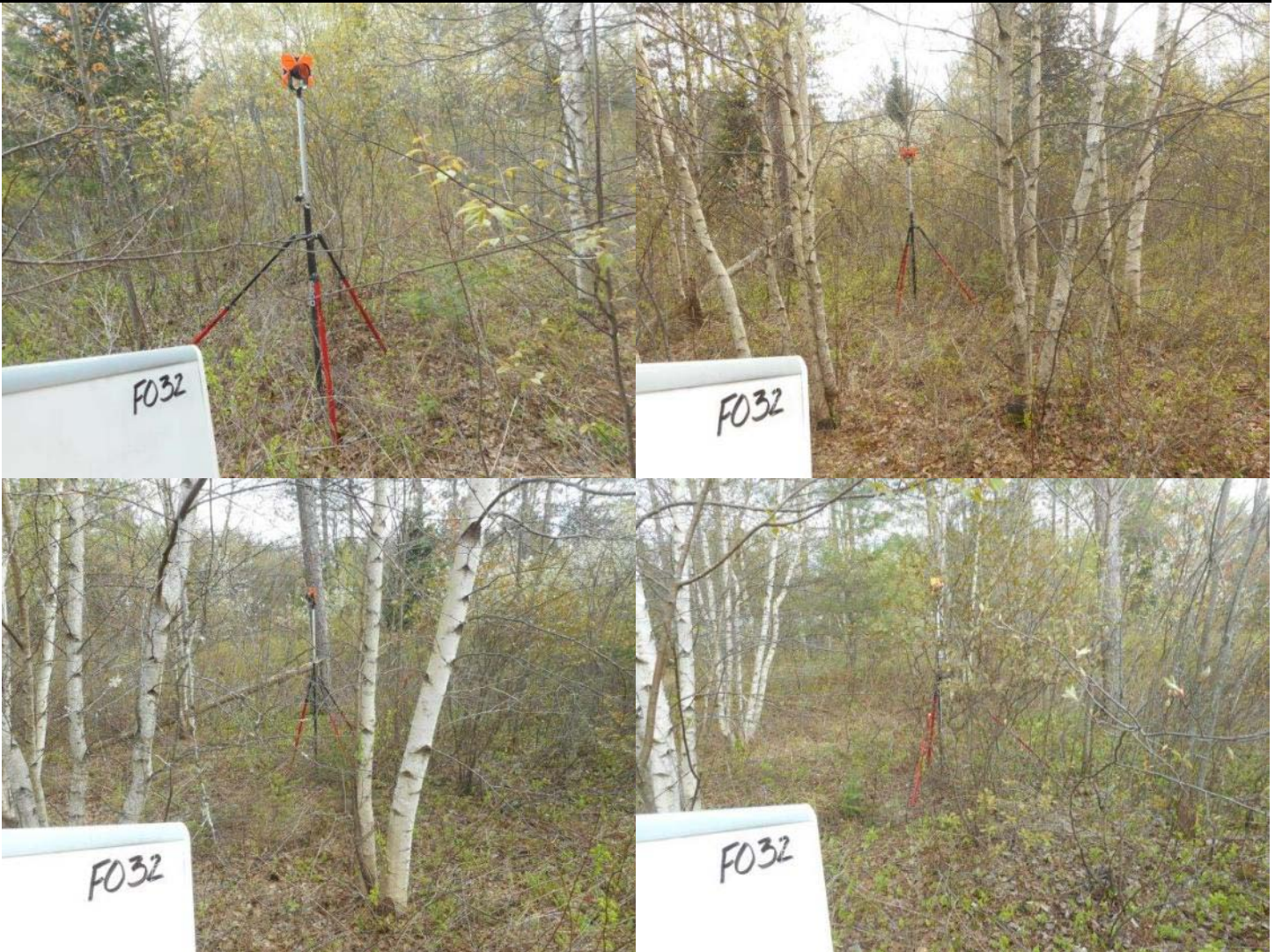
	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
623919.991	126784.867	398.519

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-15-17
Occupy PT	CA54
Back Sight PT	BE39

PHOTOS:





Point ID	FO33
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Upper Saranac Lake

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
612431.928	164111.386	496.578

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-16-17
Occupy PT	CA56
Back Sight PT	BE41

PHOTOS:





Point ID	FO33a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	St Regis Mountain

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
169720.200	622525.675	509.539

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	7-9-17
Occupy PT	BE41
Back Sight PT	BS33

PHOTOS:







Point ID	FO34
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Saint Regis Mountain

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
621809.562	165959.368	492.983

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-15-17
Occupy PT	CA57
Back Sight PT	BE42

PHOTOS:





Point ID	FO35
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Meacham Lake

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
630753.766	165543.799	504.408

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-13-17
Occupy PT	CA78
Back Sight PT	BE43

PHOTOS:





Point ID	FO36
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Meno

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
630947.095	154288.095	473.954

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-15-17
Occupy PT	CA59
Back Sight PT	B/S36

PHOTOS:





Point ID	FO37
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
627225.275	121097.672	365.020

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-17-17
Occupy PT	CA60
Back Sight PT	BE45

PHOTOS:





Point ID	FO38
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
632774.072	131187.874	395.732

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-15-17
Occupy PT	CA61
Back Sight PT	BE46

PHOTOS:





Point ID	FO39
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Brashear Falls

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
661427.054	123827.891	110.379

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-10-17
Occupy PT	BE62
Back Sight PT	CA88

PHOTOS:





Point ID	FO40
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Canton

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
631335.731	95940.897	159.539

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-17-17
Occupy PT	CA64
Back Sight PT	BE49

PHOTOS:





Point ID	FO41
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Bigelow

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
629498.406	83000.600	104.030

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-17-17
Occupy PT	CA65
Back Sight PT	B/S41

PHOTOS:







Point ID	FO42
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Edwardsville

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
636149.378	60855.890	91.392

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-19-17
Occupy PT	UA10
Back Sight PT	CA67

PHOTOS:





Point ID	FO43
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Colton

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
638699.584	118385.170	267.904

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-15-17
Occupy PT	CA72
Back Sight PT	BE51

PHOTOS:





Point ID	FO44
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Sylvan Falls

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
641003.278	139998.772	435.697

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-15-17
Occupy PT	CA74
Back Sight PT	BE52

PHOTOS:





Point ID	FO45
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Lake Titus

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
639977.172	149871.750	436.012

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-12-17
Occupy PT	BE53
Back Sight PT	CA75

PHOTOS:





Point ID	FO46
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Meacham Lake

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
639657.392	162261.103	443.761

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-13-17
Occupy PT	BE54
Back Sight PT	CA76

PHOTOS:





Point ID	FO47
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Lake Titus

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
650889.927	179146.595	462.058

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-12-17
Occupy PT	BE55
Back Sight PT	CA78

PHOTOS:





Point ID	FO48
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Lake Titus

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
651516.409	164499.539	463.318

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-12-17
Occupy PT	BE56
Back Sight PT	CA79

PHOTOS:





Point ID	FO49
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Lake Titus

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
650769.361	150997.124	422.407

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-12-17
Occupy PT	BE57
Back Sight PT	CA80

PHOTOS:







Point ID	FO50
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Waddington

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
653118.956	110964.462	111.495

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-10-17
Occupy PT	BE59
Back Sight PT	CA83

PHOTOS:





Point ID	FO51
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Norfolk

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
667553.464	111502.518	72.384

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-10-17
Occupy PT	CA87
Back Sight PT	BS51

PHOTOS:





Point ID	FO52
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Brushton

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
665178.035	148364.574	138.370

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-11-17
Occupy PT	UA17
Back Sight PT	CA90

PHOTOS:





Point ID	F053
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Brainrdsville

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
663708.182	189478.682	406.914

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-11-17
Occupy PT	CA93
Back Sight PT	BS53

PHOTOS:





Point ID	F054
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Chasm Falls

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
669653.276	177639.667	362.704

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-11-17
Occupy PT	BE65
Back Sight PT	CA95

PHOTOS:





Point ID	FO55
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Fort Covington

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
672174.370	151799.390	90.746

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-11-17
Occupy PT	CA97
Back Sight PT	BE67

PHOTOS:





Point ID	FO56
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Raquette River

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
673617.657	129701.885	66.251

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-10-17
Occupy PT	CA99
Back Sight PT	BS56

PHOTOS:





Point ID	FO57
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Hogansburg

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
682448.771	131144.238	56.494

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-10-17
Occupy PT	CP57
Back Sight PT	BS57

PHOTOS:







Point ID	FO58
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Muskellunge Lake

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
615432.912	58152.007	93.521

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-19-17
Occupy PT	CA108
Back Sight PT	B/S58

PHOTOS:





Point ID	FO59
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Malone

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
659911.933	165593.997	386.148

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	5-12-17
Occupy PT	CA106
Back Sight PT	BE72

PHOTOS:





## Brushland Point Log Sheets



Point ID	SH01
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Syracuse East

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

Coordinate System	
NAD83(2011)	
NY SPCS – CENTRAL ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
333534.696	289509.840	169.067

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-8-17
Occupy PT	CA05
Back Sight PT	B/S01

PHOTOS:





Point ID	SH02
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Onondaga
Quad	Cicero

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
347167.958	288808.532	124.454

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	6-8-17
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	SH03
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	High Market

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
391778.984	334908.573	493.982

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-5-17
Occupy PT	CA28
Back Sight PT	B/S03_SH

PHOTOS:





Point ID	SH04
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Lewis
Quad	High Market

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

Coordinate System
NAD83(2011)
NY SPCS – CENTRAL ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
400647.822	333125.092	541.012

Operator	Kenny Roberts
Instrument Model	Topcon GPT 3100
Date (MM-DD-YYYY)	6-2-17
Occupy PT	CA29
Back Sight PT	BE19

PHOTOS:





Point ID	SH05
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Cranberry Lake

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
596821.483	121036.879	450.755

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:







Point ID	SH06
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Degrasse

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
608564.432	103248.065	282.591

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	SH07
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	West Pierrepont

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

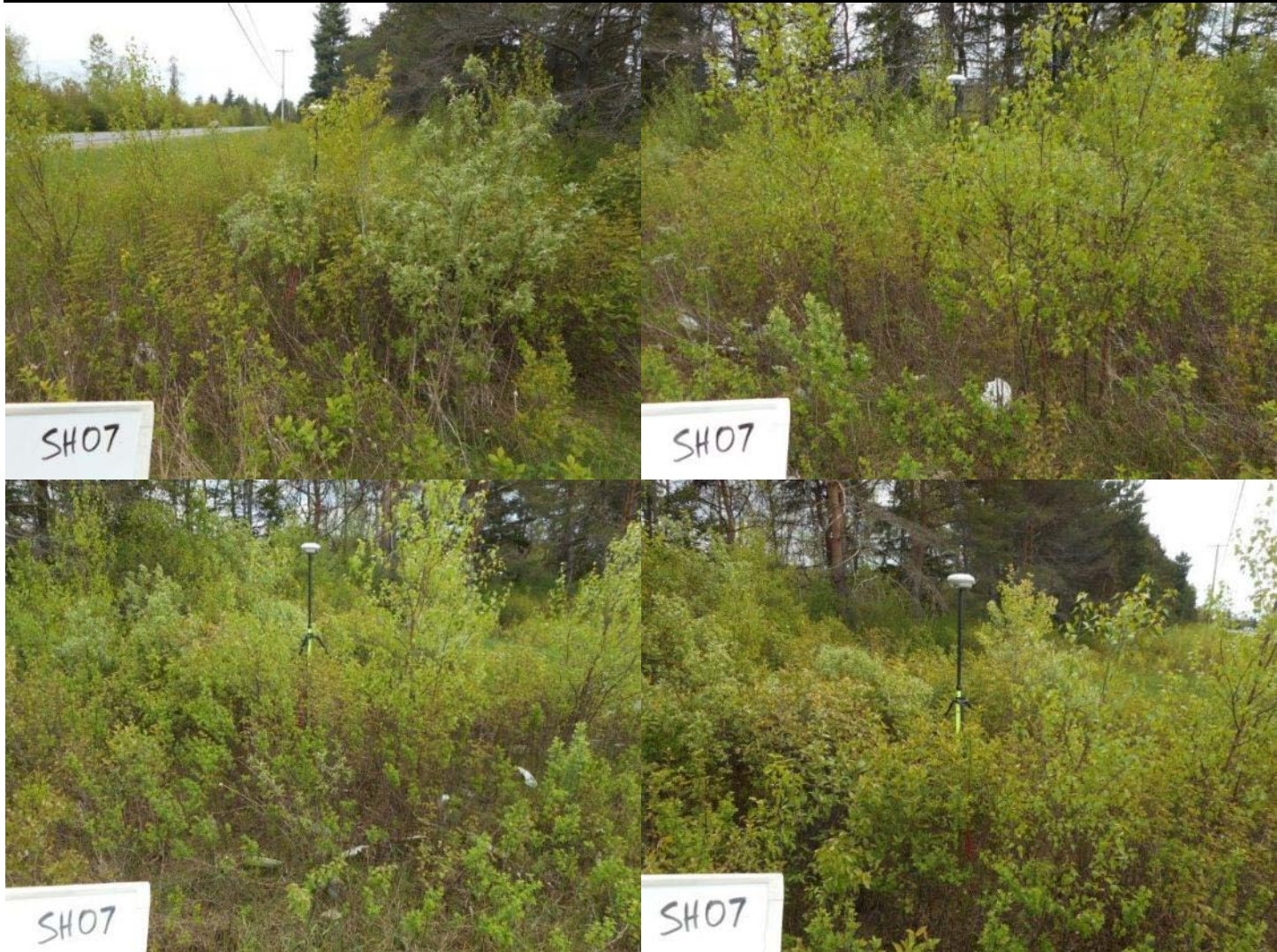
Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
617186.953	104994.733	247.547

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	NYSNET

PHOTOS:





Point ID	SH08
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Mount Matumbla

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
601783.256	150343.292	485.151

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	SH08a
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Stark

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

Coordinate System	NAD83(2011)
	NY SPCS – EAST ZONE
	NAVD88
	GEOID12B
	Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
128672.037	619134.075	460.175

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	7-8-17
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	NYSNET

PHOTOS:





Point ID	SH09
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Edwardsville

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
641954.440	70211.401	113.238

Operator	Derek Griggs
Receiver Model	Trimble R8 3
Receiver S/N	5152479795
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	SH10
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Lisbon

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
654950.379	84267.858	99.156

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	SH11
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Fort Covington

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
683365.017	150029.042	51.612

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	NYSNET

PHOTOS:





Point ID	SH12
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Chateaugay

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
681449.715	183401.312	187.419

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:







Point ID	SH13
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Norfolk

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
660850.304	111415.811	100.769

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-21-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:





Point ID	SH14
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Jamiesons Line Station

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
681751.529	169889.365	94.187

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	NYSNET

PHOTOS:





Point ID	SH15
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Fort Covington Port of Entry

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
681254.239	142964.172	66.866

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	SH16
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	St Lawrence
Quad	Massena

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

Coordinate System
NAD83(2011)
NY SPCS – EAST ZONE
NAVD88
GEOID12B
Meters

<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
675926.603	119680.174	57.779

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	NYSNET

PHOTOS:





Point ID	SH17
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Malone

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
670995.251	163542.892	199.221

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-22-17
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	NYSNET

PHOTOS:





Point ID	SH18
Project No.	29614
Project Name	NY FEMA R2
State	New York
County	Franklin
Quad	Chateaugay

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

Coordinate System	
NAD83(2011)	
NY SPCS – EAST ZONE	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
672201.682	187560.403	404.779

Operator	Kenny Roberts
Receiver Model	Trimble R8 4
Receiver S/N	5407454087
Antenna Height	2.000 Meters

Date (MM-DD-YYYY)	5-20-17
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	NYSNET

PHOTOS:

