

November 30, 2010

Control Survey Report

Baldwin County, AL (East /West) LiDAR Task Order
Task Order No.: G10PD02126
Contract No.: G10PC00026

US Geological Survey
1400 Independence Road
Rolla, Missouri 65401

For
Supplemental Ground Control & Ground
Control Quality Check Point Surveys

PSI NO. 7505-059

presented by



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700

Control Control Report

Baldwin County, Alabama (East/West) LiDAR Task Order

Task Order No.: G10PD02126

Contract No.: G10PC00026

US Geological Survey
1400 Independence Road
Rolla, Missouri 65401

For

Supplemental Ground Control & Ground
Control Quality Check Points

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I. Survey Report

Control Survey Report
Baldwin County, AL (East/West) LiDAR Task Order
Task Order No.: G10PD02126
Contract No.: G10PC00026
US Geological Survey
1400 Independence Road
Rolla, Missouri 65401
For
Supplemental Ground Control & Ground
Control Quality Check Points Surveys

Photo Science, Inc. was contracted by US Geological Survey to locate a total of 20 new control points and 20 new blind points (check points) for this project. These points consisted of uniform terrain features (non breaks).

Two GPS technicians were mobilized to the site in Mid – November 2010, with dual-frequency Trimble 4000 SSI GPS units to establish horizontal and vertical control for this project. Static sessions lasting a minimum of thirty minutes were conducted between the ground control and the blind control (check point). Each point was occupied a minimum of sixty minutes for the NGS CORS GPS control ties. A data log sheet was filled out for each occupation. Two photographs were taken of each point in a different direction.

The GPS data was post processed in Trimble Geomatics Office using CORS data as control. The West portion of the project was processed using AL90 and AL92 they are GPS Continuously Operating Reference Station located in Mobile and Baldwin Counties, AL. The East portion of the project was processed using AL92, ALFO and PCLA they are GPS Continuously Operating Reference Station located in Baldwin Counties, AL and Escambia County, FL.

No major problems were encountered in the field. The photographs for each point can be found in the GPS data log sheets in this report. The Horizontal coordinates are Universal Transverse Mercator (UTM) coordinate system in meters North American Datum of 1983 NAD83 and UTM N Zone 16. All vertical data is North American Vertical Datum of 1988 (NAVD 88).

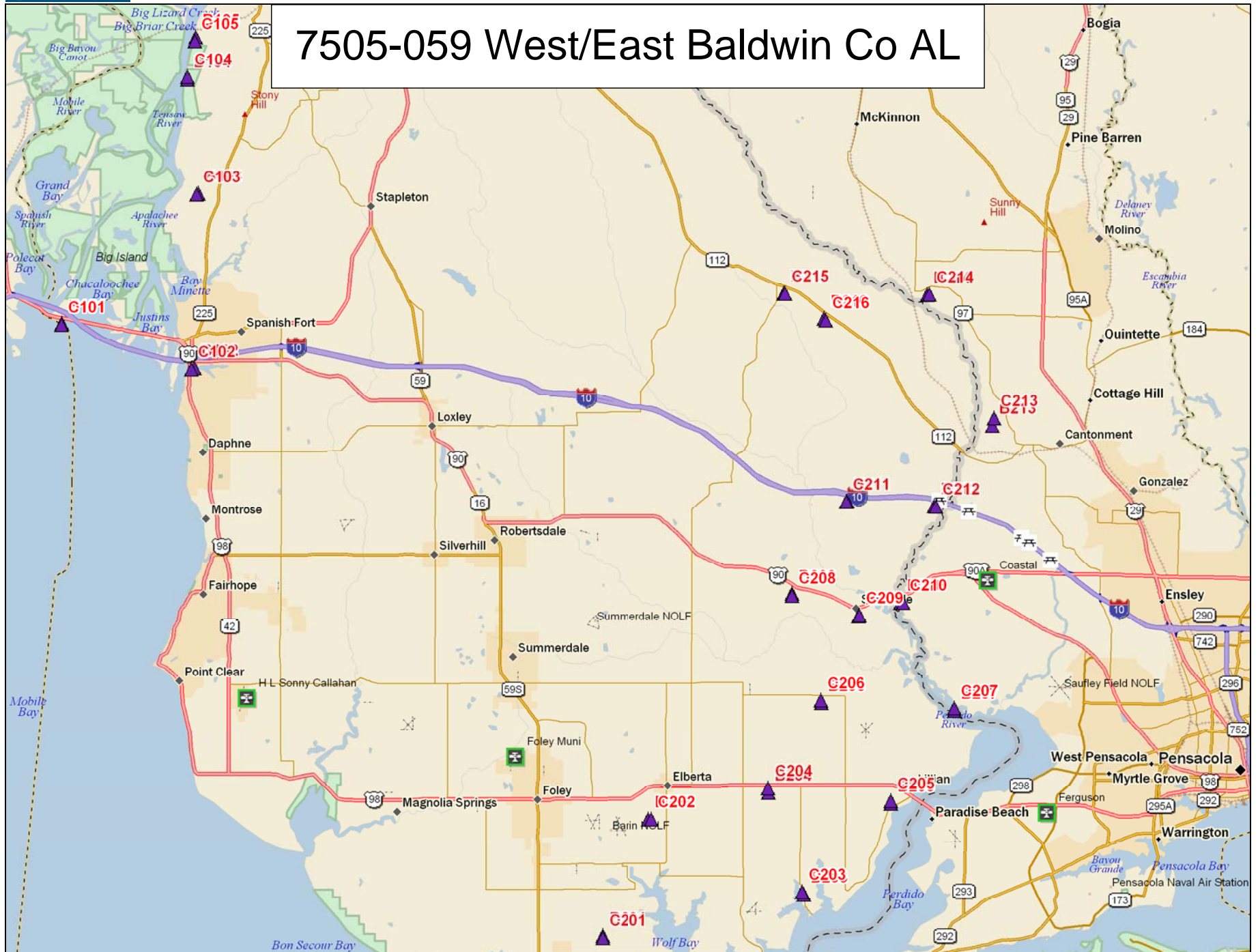
GPS Project Summary

Project	Baldwin County (West) LiDAR
Location	Baldwin County, Alabama
Item Number	
Photo Science Project Number	7505-059
Date	11/30/2010
Person Responsible for GPS Calculations	Anthony F. Stith
Coordinate Projection	UTM N Zone 16
Applicable Datum	NAD 83 (2007)
Units (USF, Feet, Meters)	Meters
Geoid Model Employed	GEOID09
GPS Hardware Used	Trimble 4000 SSI
Single or Dual Frequency	Dual
Crew Size for GPS Operations	2 - person
Observation Methodology	Static and Rapid Static
Maximum Baseline Length	33,599 Meters
GPS Software Employed	Trimble Goematics Office V1.63
Ephemerides - Broadcast or Precise	Precise
Number of Network Points (Known & Unknown)	12
Number of Known Horizontal Points Held in Final Soln	2
Number of Known Vertical Points Held in Final Soln	2
Number of Independent Baselines	14
Ratio -- Independent Baselines to Network Points	1.17
Horizontal Control Points Employed	Accuracy of Control
AL90	Special (CORS)
AL92	Special (CORS)
Vertical Control Points Employed	
AL90	GPS OBS
AL92	GPS OBS

GPS Project Summary

Project	Baldwin County (East) LiDAR
Location	Baldwin County, Alabama
Item Number	
Photo Science Project Number	7505-059
Date	11/30/2010
Person Responsible for GPS Calculations	Anthony F. Stith
Coordinate Projection	UTM N Zone 16
Applicable Datum	NAD 83 (2007)
Units (USF, Feet, Meters)	Meters
Geoid Model Employed	GEOID09
GPS Hardware Used	Trimble 4000 SSI
Single or Dual Frequency	Dual
Crew Size for GPS Operations	2 - person
Observation Methodology	Static and Rapid Static
Maximum Baseline Length	53,593 Meters
GPS Software Employed	Trimble Goematics Office V1.63
Ephemerides - Broadcast or Precise	Precise
Number of Network Points (Known & Unknown)	35
Number of Known Horizontal Points Held in Final Soln	3
Number of Known Vertical Points Held in Final Soln	3
Number of Independent Baselines	57
Ratio -- Independent Baselines to Network Points	1.63
Horizontal Control Points Employed	Accuracy of Control
AL92	Special (CORS)
ALFO	Special (CORS)
PCLA	Special (CORS)
Vertical Control Points Employed	
AL92	GPS OBS
ALFO	GPS OBS
PCLA	GPS OBS

7505-059 West/East Baldwin Co AL



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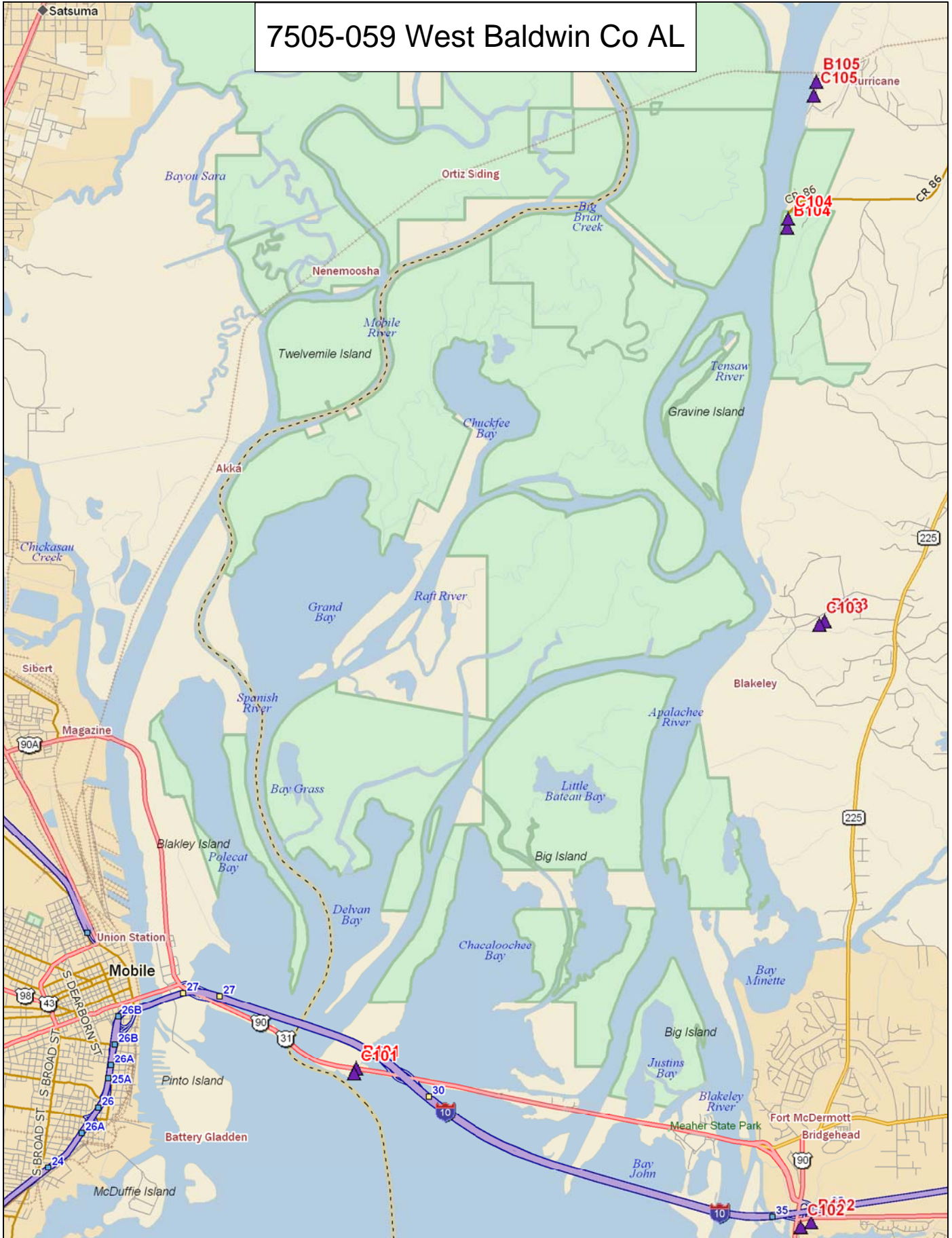
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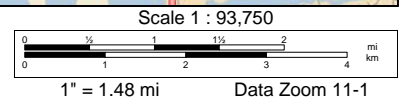
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Data Zoom 9-3

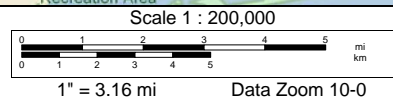
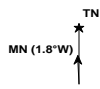
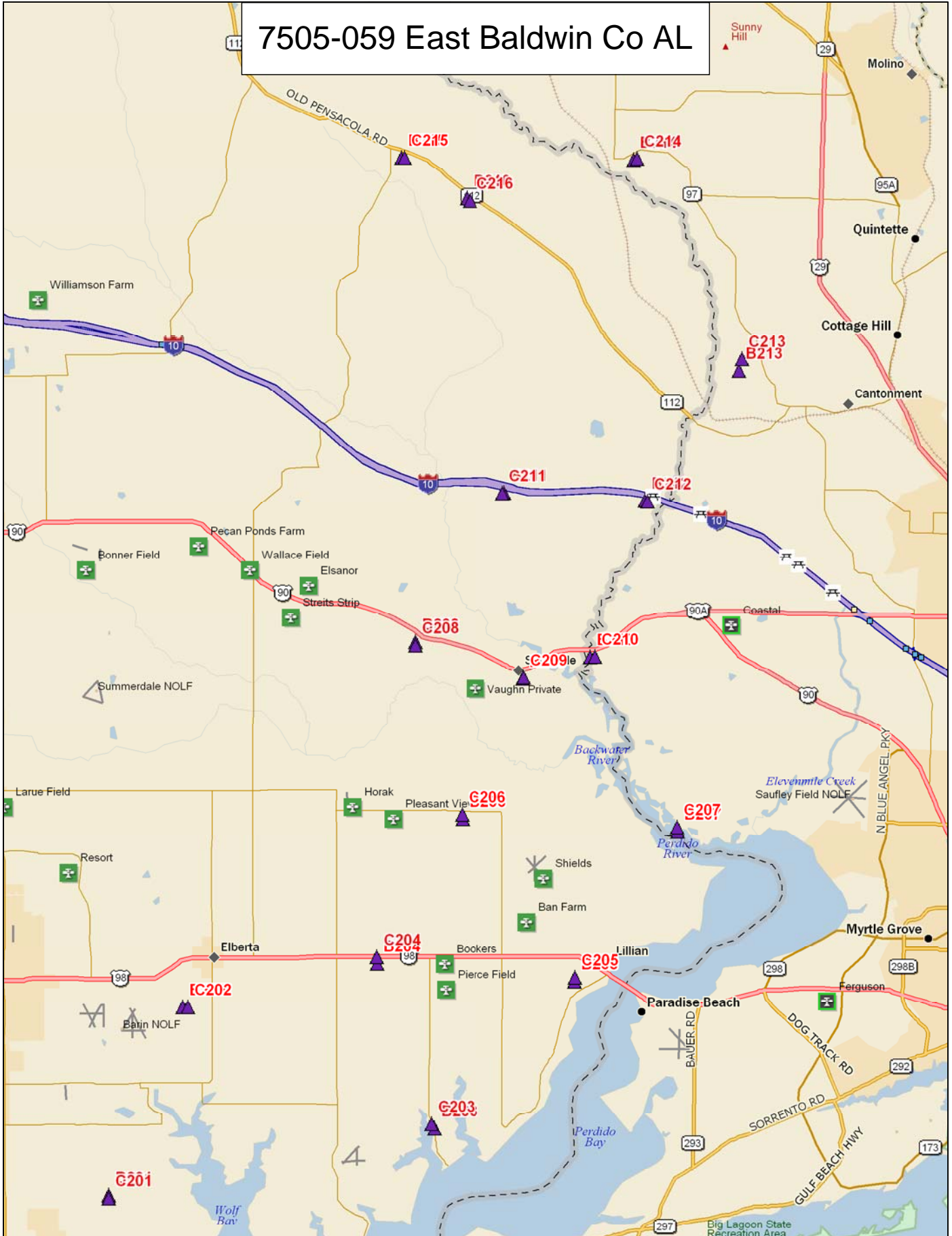
7505-059 West Baldwin Co AL



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7505-059 East Baldwin Co AL



II. Final Coordinate Listing

7505-059 West Baldwin County AL
NAD83(2007) UTM N Zone 16 NAVD 88 Meters

Point #	Northing	Easting	Elevation
B101	3394636.308	404564.420	1.355
C101	3394547.083	404527.430	1.417
B102	3391763.795	412871.165	5.689
C102	3391676.295	412680.094	8.032
B103	3402705.695	413204.920	19.822
C103	3402646.888	413112.861	18.692
B104	3409871.961	412580.035	14.042
C104	3410037.877	412596.302	11.185
B105	3412529.420	413135.495	1.851
C105	3412282.890	413083.077	1.281

7505-059 West Baldwin County AL

NAD83(2007) UTM N Zone 16 NAVD 88 Meters

Point #	Northing	Easting	Elevation	Latitude	Longitude	Height	Grid F	Elev F	Comb F	Conv
B101	3394636.308	404564.420	1.355	30°40'50.40722"N	87°59'46.86617"W	-27.127	0.999712	1.000004	0.999717	-0°30'30"
C101	3394547.083	404527.430	1.417	30°40'47.49851"N	87°59'48.22647"W	-27.065	0.999712	1.000004	0.999717	-0°30'31"
B102	3391763.795	412871.165	5.689	30°39'19.39475"N	87°54'33.82483"W	-22.665	0.999694	1.000004	0.999697	-0°27'49"
C102	3391676.295	412680.094	8.032	30°39'16.50234"N	87°54'40.97683"W	-20.325	0.999694	1.000003	0.999697	-0°27'53"
B103	3402705.695	413204.920	19.822	30°45'14.88634"N	87°54'24.60807"W	-8.610	0.999693	1.000001	0.999694	-0°27'49"
C103	3402646.888	413112.861	18.692	30°45'12.95201"N	87°54'28.05237"W	-9.741	0.999693	1.000002	0.999695	-0°27'51"
B104	3409871.961	412580.035	14.042	30°49'07.48565"N	87°54'50.30996"W	-14.434	0.999694	1.000002	0.999697	-0°28'06"
C104	3410037.877	412596.302	11.185	30°49'12.87897"N	87°54'49.74880"W	-17.292	0.999694	1.000003	0.999697	-0°28'06"
B105	3412529.420	413135.495	1.851	30°50'33.94788"N	87°54'30.21853"W	-26.629	0.999693	1.000004	0.999697	-0°27'57"
C105	3412282.890	413083.077	1.281	30°50'25.92666"N	87°54'32.11624"W	-27.199	0.999693	1.000004	0.999697	-0°27'58"

7505-059 East Baldwin County AL
NAD83(2007) UTM N Zone 16 NAVD 88 Meters

Point #	Northing	Easting	Elevation
B201	3355938.854	438407.231	12.917
C201	3355810.102	438405.389	12.495
B202	3363221.668	441336.025	20.790
C202	3363220.664	441537.308	22.175
B203	3358466.759	451138.271	9.783
C203	3358635.950	451029.895	10.024
B204	3364870.065	448940.183	23.311
C204	3365119.953	448920.505	23.856
B205	3364143.665	456652.648	22.356
C205	3364302.415	456664.814	22.787
B206	3370480.699	452296.879	25.102
C206	3370642.927	452278.236	25.070
B207	3369954.160	460698.398	1.130
C207	3370124.879	460689.698	1.522
B208	3377393.415	450484.353	15.603
C208	3377252.012	450481.668	15.808
B209	3375942.014	454677.091	27.880
C209	3375977.681	454716.459	27.358
B210	3376765.598	457316.192	3.961
C210	3376775.735	457498.217	3.674
B211	3383161.836	453979.127	22.755
C211	3383135.762	453916.102	22.131
B212	3382832.565	459472.795	11.827
C212	3382804.829	459582.727	11.550
B213	3387869.151	463154.281	25.704
C213	3388311.172	463274.468	17.805
B214	3396068.472	459081.178	22.613
C214	3396106.910	459218.169	23.484
B215	3396184.664	450035.635	57.755
C215	3396176.595	450142.920	57.986
B216	3394604.653	452573.759	38.235
C216	3394504.690	452687.729	39.432

7505-059 East Baldwin County AL
 NAD83(2007) UTM N Zone 16 NAVD 88 Meters

Point #	Northing	Easting	Elevation	Latitude	Longitude	Height	Grid F	Elev F	Comb F	Conv
B201	3355938.854	438407.231	12.917	30°20'01.38351"N	87°38'26.74109"W	-14.813	0.999647	1.000002	0.999649	-0°19'25"
C201	3355810.102	438405.389	12.495	30°19'57.20068"N	87°38'26.78284"W	-15.234	0.999647	1.000002	0.999649	-0°19'25"
B202	3363221.668	441336.025	20.790	30°23'58.48981"N	87°36'38.52840"W	-7.011	0.999642	1.000001	0.999644	-0°18'33"
C202	3363220.664	441537.308	22.175	30°23'58.49241"N	87°36'30.98516"W	-5.623	0.999642	1.000001	0.999643	-0°18'29"
B203	3358466.759	451138.271	9.783	30°21'25.59857"N	87°30'30.38691"W	-17.867	0.999629	1.000003	0.999632	-0°15'25"
C203	3358635.950	451029.895	10.024	30°21'31.07903"N	87°30'34.47506"W	-17.629	0.999630	1.000003	0.999632	-0°15'27"
B204	3364870.065	448940.183	23.311	30°24'53.28432"N	87°31'53.85135"W	-4.432	0.999632	1.000001	0.999633	-0°16'09"
C204	3365119.953	448920.505	23.856	30°25'01.39897"N	87°31'54.63293"W	-3.889	0.999632	1.000001	0.999633	-0°16'09"
B205	3364143.665	456652.648	22.356	30°24'30.77488"N	87°27'04.66826"W	-5.303	0.999623	1.000001	0.999624	-0°13'42"
C205	3364302.415	456664.814	22.787	30°24'35.93354"N	87°27'04.23599"W	-4.873	0.999623	1.000001	0.999624	-0°13'42"
B206	3370480.699	452296.879	25.102	30°27'56.04224"N	87°29'48.96207"W	-2.666	0.999628	1.000000	0.999628	-0°15'07"
C206	3370642.927	452278.236	25.070	30°28'01.30956"N	87°29'49.68796"W	-2.699	0.999628	1.000000	0.999629	-0°15'07"
B207	3369954.160	460698.398	1.130	30°27'40.03187"N	87°24'33.82432"W	-26.539	0.999619	1.000004	0.999623	-0°12'27"
C207	3370124.879	460689.698	1.522	30°27'45.57674"N	87°24'34.17378"W	-26.149	0.999619	1.000004	0.999623	-0°12'27"
B208	3377393.415	450484.353	15.603	30°31'40.33668"N	87°30'58.11828"W	-12.245	0.999630	1.000002	0.999632	-0°15'44"
C208	3377252.012	450481.668	15.808	30°31'35.74284"N	87°30'58.19477"W	-12.038	0.999630	1.000002	0.999632	-0°15'44"
B209	3375942.014	454677.091	27.880	30°30'53.78493"N	87°28'20.55875"W	0.092	0.999625	1.000000	0.999625	-0°14'23"
C209	3375977.681	454716.459	27.358	30°30'54.94892"N	87°28'19.08727"W	-0.430	0.999625	1.000000	0.999625	-0°14'23"
B210	3376765.598	457316.192	3.961	30°31'20.88752"N	87°26'41.66162"W	-23.803	0.999622	1.000004	0.999626	-0°13'33"
C210	3376775.735	457498.217	3.674	30°31'21.24009"N	87°26'34.83301"W	-24.088	0.999622	1.000004	0.999626	-0°13'30"
B211	3383161.836	453979.127	22.755	30°34'48.22329"N	87°28'47.89963"W	-5.105	0.999626	1.000001	0.999627	-0°14'39"
C211	3383135.762	453916.102	22.131	30°34'47.36756"N	87°28'50.26174"W	-5.729	0.999626	1.000001	0.999627	-0°14'40"
B212	3382832.565	459472.795	11.827	30°34'38.24215"N	87°25'21.59303"W	-15.958	0.999620	1.000003	0.999623	-0°12'54"
C212	3382804.829	459582.727	11.550	30°34'37.35453"N	87°25'17.46184"W	-16.233	0.999620	1.000003	0.999623	-0°12'52"
B213	3387869.151	463154.281	25.704	30°37'22.28345"N	87°23'04.02036"W	-2.070	0.999617	1.000000	0.999617	-0°11'45"
C213	3388311.172	463274.468	17.805	30°37'36.65573"N	87°22'59.56249"W	-9.971	0.999617	1.000002	0.999618	-0°11'43"
B214	3396068.472	459081.178	22.613	30°41'48.15636"N	87°25'38.18443"W	-5.269	0.999621	1.000001	0.999621	-0°13'05"
C214	3396106.910	459218.169	23.484	30°41'49.42191"N	87°25'33.04039"W	-4.397	0.999621	1.000001	0.999621	-0°13'03"
B215	3396184.664	450035.635	57.755	30°41'50.68844"N	87°31'18.22605"W	29.764	0.999631	0.999995	0.999626	-0°15'59"
C215	3396176.595	450142.920	57.986	30°41'50.44251"N	87°31'14.19181"W	29.997	0.999631	0.999995	0.999626	-0°15'57"

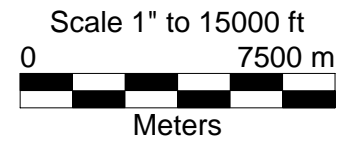
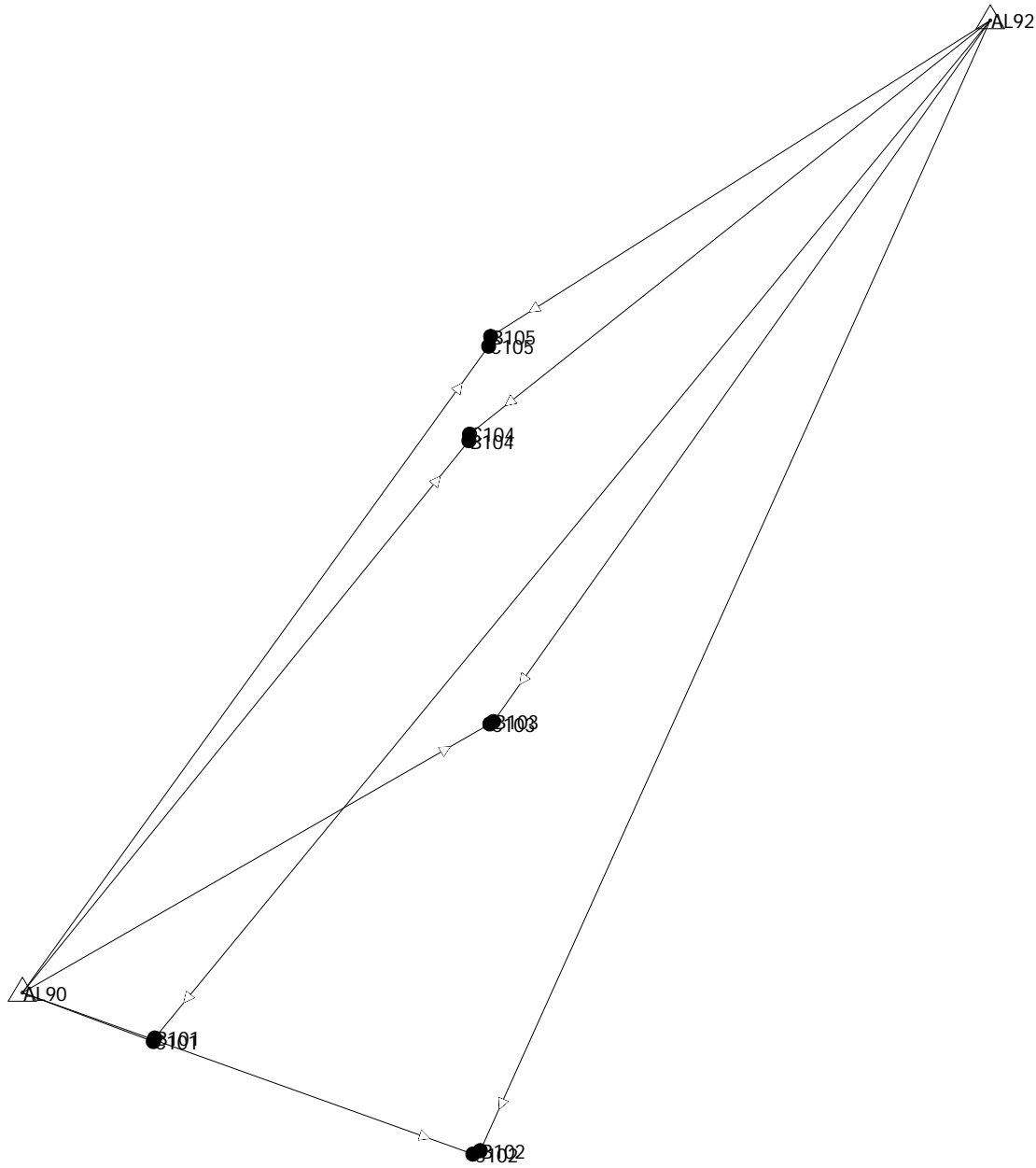
7505-059 East Baldwin County AL

NAD83(2007) UTM N Zone 16 NAVD 88 Meters

Point #	Northing	Easting	Elevation	Latitude	Longitude	Height	Grid F	Elev F	Comb F	Conv
B216	3394604.653	452573.759	38.235	30°40'59.73700"N	87°29'42.55574"W	10.282	0.999628	0.999998	0.999626	-0°15'10"
C216	3394504.690	452687.729	39.432	30°40'56.50610"N	87°29'38.25567"W	11.480	0.999628	0.999998	0.999626	-0°15'07"
AL92	3420593.146	425882.875	90.756	30°54'58.98645"N	87°46'32.46308"W	62.409	0.999668	0.999990	0.999658	-0°23'55"
ALFO	3365181.722	435163.966	32.411	30°25'01.02249"N	87°40'30.26166"W	4.533	0.999652	0.999999	0.999651	-0°20'30"
PCLA	3370773.341	481818.024	30.890	30°28'08.46143"N	87°11'21.88793"W	3.469	0.999604	0.999999	0.999604	-0°05'46"

III. Network Summary

Field surveyor:
Derrick Mullins
Computer operator:
Anthony Stith
Reference:
Baldwin Co AL



0°00'00"

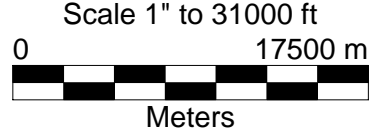
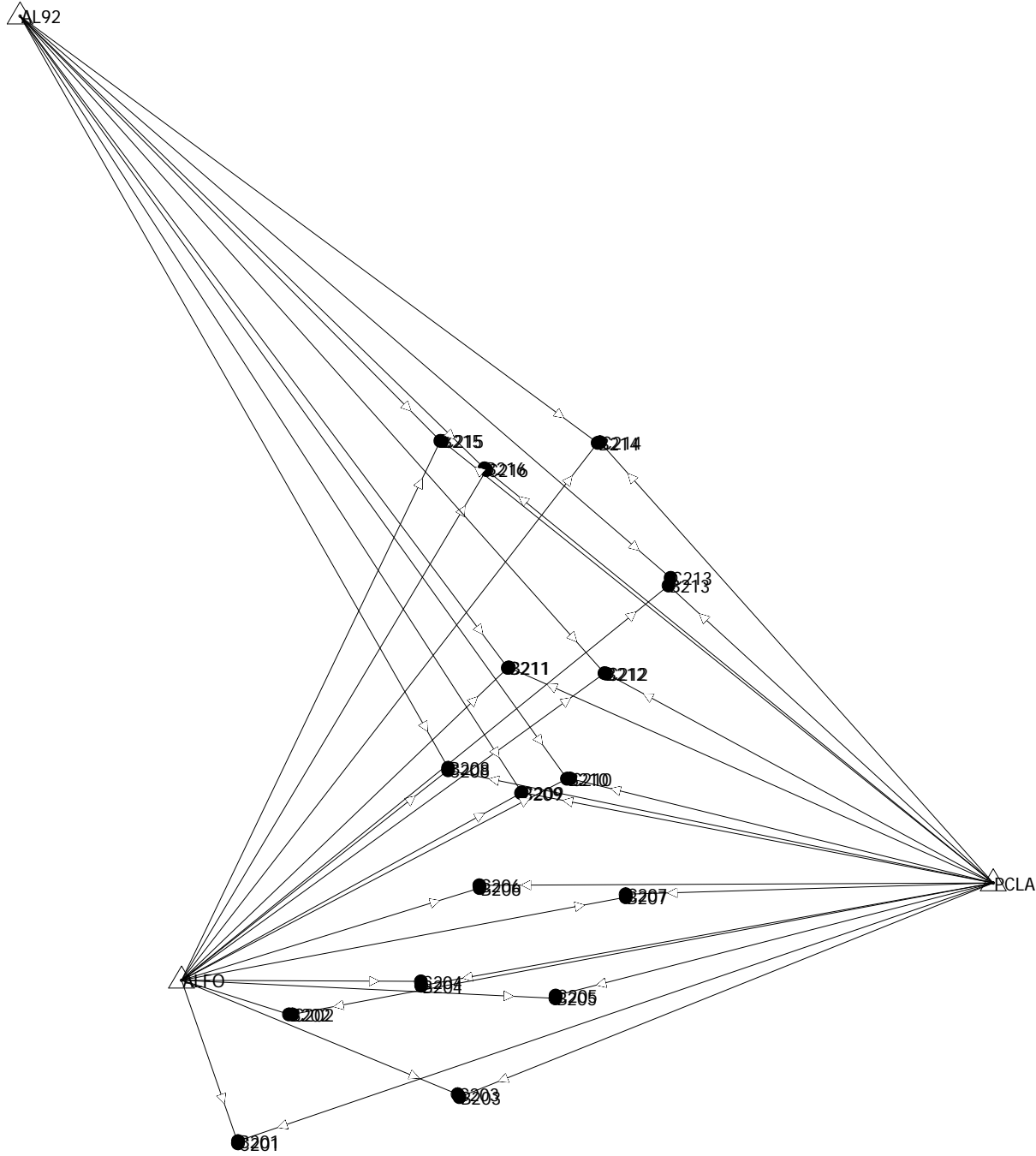
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Printed from Trimble Geomatics Office

Site: Not selected, System: UTM
Zone: 16 North, Datum: NAD 1983 (Conus)

Project: 7505-059_West
USFeet Template

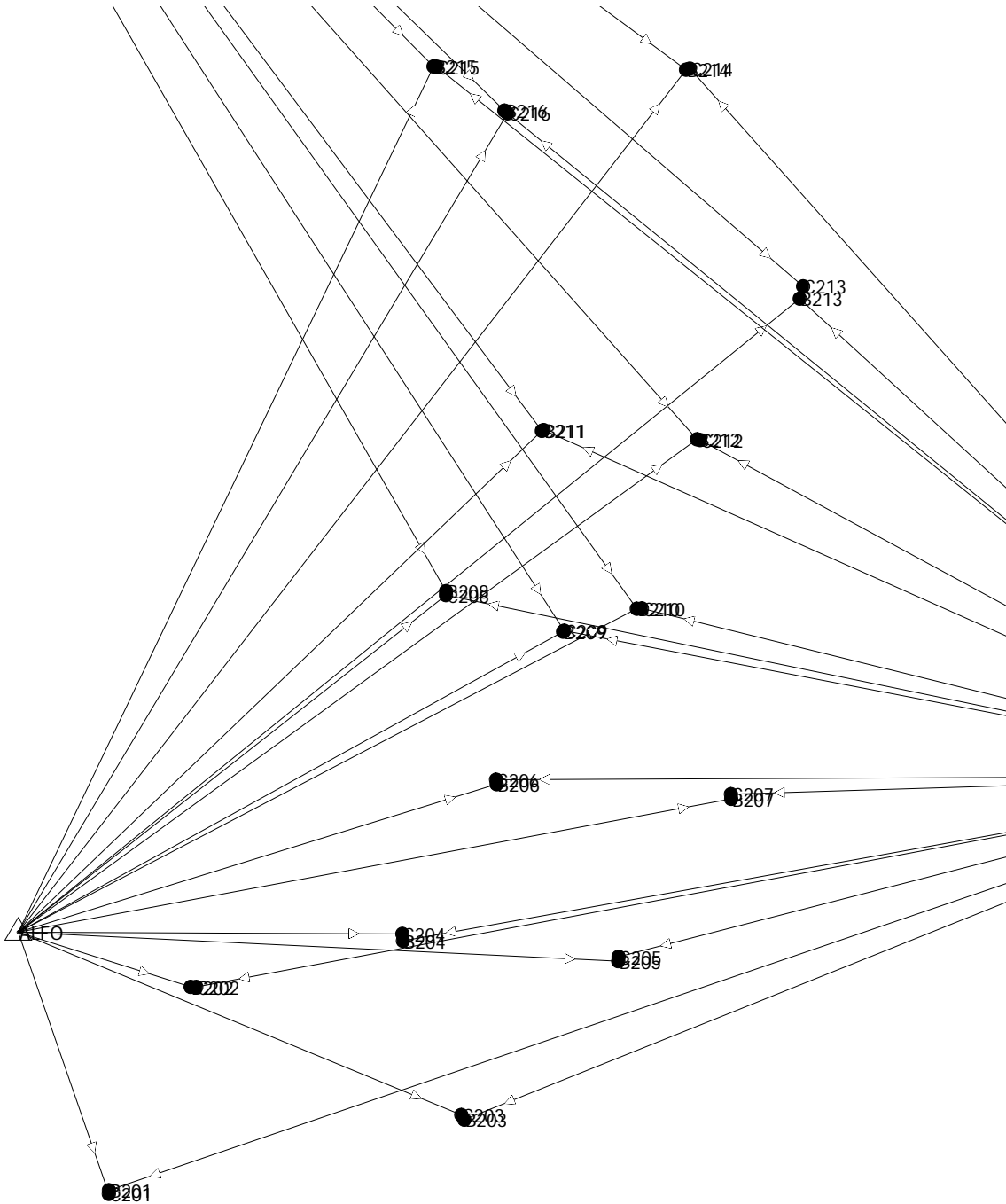
Field surveyor:
Kenny Roberts
Computer operator:
Anthony Stith
Reference:
Baldwin County AL



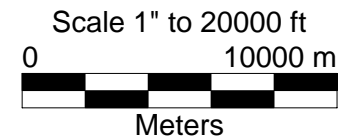
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Plot Scale: 1" to 31000 ft
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Printed from Trimble Geomatics Office

Site: Not selected, System: UTM
Zone: 16 North, Datum: NAD 1983 (Conus)
Project: 7505-059_East
USFeet Template



Field surveyor:
 Kenny Roberts
 Computer operator:
 Anthony Stith
 Reference:
 Baldwin County AL



0°00'00"

Plot Scale: 1" to 20000 ft
 Printed on 12/1/2010, at 9:09:11 AM
 Printed from Trimble Geomatics Office

Site: Not selected, System: UTM
 Zone: 16 North, Datum: NAD 1983 (Conus)
 Project: 7505-059_East
 USFeet Template

Baseline Processing Report

Project : 7505-059_ West

User name	tstith	Date & Time	8:20:24 AM 12/1/2010
Coordinate System	UTM	Zone	16 North
Project Datum	NAD 1983 (Conus)		
Vertical Datum	NAVD88	Geoid Model	Geoid09(Conus)
Coordinate Units	Meters		
Distance Units	Meters		
Height Units	Meters		

Processing Summary

ID	From	To	Baseline Length	Solution Type	Ratio	Reference Variance	RMS
B1	B105	C105	252.117m	L1 fixed	45.4	1.430	0.004m
B2	C101	B101	96.615m	L1 fixed	21.9	1.529	0.004m
B3	B102	C102	210.230m	L1 fixed	55.4	1.043	0.003m
B4	B103	C103	109.279m	L1 fixed	20.5	2.325	0.006m
B5	B104	C104	166.787m	L1 fixed	10.3	18.189	0.020m
B6	AL90	C105	20338.610m	Iono free fixed	12.6	2.279	0.018m
B10	AL90	B104	18116.123m	Iono free fixed	8.4	3.458	0.019m
B12	AL90	C101	3564.842m	L1 fixed	15.3	6.572	0.010m
B13	AL90	C102	12210.283m	Iono free fixed	13.9	1.241	0.013m
B14	AL90	C103	13758.219m	Iono free fixed	23.1	2.595	0.018m
B17	AL92	B101	33599.815m	Iono free fixed	20.2	1.762	0.016m
B18	AL92	B102	31639.971m	Iono free fixed	29.1	1.172	0.015m
B19	AL92	B103	21931.893m	Iono free fixed	22.1	1.668	0.014m
B21	AL92	B105	15088.880m	Iono free fixed	19.1	2.258	0.019m
B25	AL92	C104	16974.669m	Iono free fixed	8.1	5.113	0.030m

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Baseline Processing Report

Project : 7505-059_East

User name	tstith	Date & Time	8:51:10 AM 12/1/2010
Coordinate System	UTM	Zone	16 North
Project Datum	NAD 1983 (Conus)		
Vertical Datum	NAVD88	Geoid Model	Geoid09(Conus)
Coordinate Units	Meters		
Distance Units	Meters		
Height Units	Meters		

Processing Summary

ID	From	To	Baseline Length	Solution Type	Ratio	Reference Variance	RMS
B9	AL92	B210	53953.612m	Iono free fixed	31.2	1.470	0.014m
B14	ALFO	B206	17940.111m	Iono free fixed	38.8	0.722	0.010m
B15	ALFO	B209	22291.378m	Iono free fixed	34.1	1.112	0.011m
B16	ALFO	B210	25007.203m	Iono free fixed	20.4	1.515	0.015m
B19	ALFO	C208	19508.894m	Iono free fixed	27.6	1.050	0.014m
B20	ALFO	C216	34172.526m	Iono free fixed	16.0	1.119	0.012m
B24	PCLA	B211	30482.694m	Iono free fixed	13.4	1.958	0.015m
B25	PCLA	C206	29551.439m	Iono free fixed	27.8	0.548	0.008m
B26	PCLA	C208	32011.332m	Iono free fixed	20.9	0.449	0.008m
B27	PCLA	C216	37587.755m	Iono free fixed	34.8	0.896	0.010m
B28	B206	C206	163.356m	L1 fixed	108.3	0.716	0.003m
B30	AL92	B215	34350.772m	Iono free fixed	14.8	1.430	0.015m
B33	ALFO	B213	36043.421m	Iono free fixed	13.2	1.868	0.015m
B34	ALFO	B215	34397.714m	Iono free fixed	14.2	1.623	0.017m
B37	PCLA	B213	25319.981m	Iono free fixed	13.1	1.484	0.013m
B39	PCLA	C212	25291.507m	Iono free fixed	23.1	0.920	0.010m
B40	PCLA	C214	33962.283m	Iono free fixed	16.8	2.614	0.017m
B41	AL92	B212	50556.760m	Iono free fixed	20.0	1.300	0.015m
B42	AL92	B214	41289.483m	Iono free fixed	10.5	2.390	0.018m
B43	AL92	C213	49416.912m	Iono free fixed	10.0	2.037	0.015m
B45	B212	ALFO	30052.084m	Iono free fixed	17.6	1.267	0.015m
B46	ALFO	B214	39078.553m	Iono free fixed	10.9	1.718	0.015m
B52	PCLA	C215	40619.085m	Iono free fixed	55.4	0.668	0.009m
B53	B213	C213	458.314m	L1 fixed	32.3	3.885	0.007m

ID	From	To	Baseline Length	Solution Type	Ratio	Reference Variance	RMS
B54	B215	C215	107.629m	L1 fixed	43.5	1.482	0.004m
B55	C212	B212	113.418m	L1 fixed	104.5	0.578	0.003m
B56	B214	C214	142.337m	L1 fixed	15.2	1.976	0.005m
B57	AL92	B208	49731.317m	Iono free fixed	47.7	0.812	0.012m
B58	AL92	B216	37266.627m	Iono free fixed	41.6	0.512	0.008m
B59	AL92	C209	53140.717m	Iono free fixed	9.7	1.149	0.012m
B61	AL92	C211	46802.613m	Iono free fixed	13.1	3.933	0.021m
B66	ALFO	C211	25970.688m	Iono free fixed	9.5	3.988	0.022m
B69	PCLA	C209	27607.398m	Iono free fixed	30.6	1.117	0.011m
B70	PCLA	C210	25059.268m	Iono free fixed	18.8	1.586	0.013m
B72	C209	B209	53.145m	L1 fixed	72.6	0.997	0.003m
B73	C210	B210	182.376m	L1 fixed	30.5	2.158	0.005m
B74	C211	B211	68.231m	L1 fixed	20.7	7.039	0.008m
B75	C208	B208	141.483m	L1 fixed	56.3	0.759	0.003m
B76	C216	B216	151.660m	L1 fixed	41.5	0.834	0.003m
B83	ALFO	B207	25986.051m	Iono free fixed	24.2	1.247	0.013m
B85	ALFO	B202	6478.110m	Iono free fixed	19.2	1.776	0.015m
B88	ALFO	B205	21521.547m	Iono free fixed	17.4	1.671	0.018m
B90	PCLA	B201	45892.691m	Iono free fixed	3.9	0.629	0.010m
B92	PCLA	B203	33068.657m	Iono free fixed	20.2	1.363	0.013m
B93	PCLA	B204	33416.395m	Iono free fixed	16.1	1.146	0.012m
B117	ALFO	C201	9919.836m	Iono free fixed	106.4	0.972	0.014m
B119	ALFO	C203	17169.338m	Iono free fixed	14.2	1.799	0.015m
B120	ALFO	C204	13761.602m	Iono free fixed	20.8	1.610	0.015m
B122	PCLA	C207	21146.476m	Iono free fixed	17.1	1.232	0.013m
B124	PCLA	C202	40998.173m	Iono free fixed	18.4	1.169	0.012m
B127	PCLA	C205	25982.279m	Iono free fixed	22.2	1.057	0.011m
B143	C207	B207	171.006m	L1 fixed	24.4	2.341	0.005m
B144	C201	B201	128.812m	L1 fixed	20.7	1.002	0.003m
B145	B202	C202	201.363m	L1 fixed	4.3	4.939	0.007m
B146	C203	B203	200.997m	L1 fixed	33.0	2.702	0.006m
B147	B204	C204	250.753m	L1 fixed	11.6	2.657	0.005m
B148	B205	C205	159.275m	L1 fixed	56.4	0.655	0.003m

[Back to top](#)

IV. Data Log Sheets

2670 Wilhite Drive
Lexington, KY 40503
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JOB REFERENCE
Baldwin County

POINT ID: **B101**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Bridgehead**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3394636.308	Elevation	1.355
Easting	404564.420		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

SESSION: B101320B	DATE: 11/16/10	START TIME: 10:47	U.T.C.
	DAY OF YEAR: 320	END TIME: 11:47	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA

RADIUS (M)		
Antenna Serial #	80098244	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	X	FIXED HGT
---------	---------------------	----------	----------	-----------

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Check Point

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK	X	NEW GROUND CHECK
PUB. CONTROL		BASE STATION

PHOTO:

PHOTO:





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:
1

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Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Baldwin County

POINT ID: **C101**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Bridgehead**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3394547.083	Elevation	1.417
Easting	404527.430		

SESSION: C101320B	DATE: 11/16/10	START TIME: 10:34	U.T.C.
	DAY OF YEAR: 320	END TIME: 11:34	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA

RADIUS (M)		
Antenna Serial #	80098244	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	X	FIXED HGT
---------	---------------------	----------	----------	-----------

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Control Point

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK	X	NEW GROUND CONTROL
PUB. CONTROL		BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B102**
Proj. No.: **7505-059**

STATE **AL**

COUNTY **Baldwin**

QUAD: **Bridgehead**

OPERATOR **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL **Trimble 4000**
RECEIVER S/N **3538A16968**

Northing	3391763.795	Elevation	5.689
Easting	412871.165		

SESSION	DATE: 11/16/10
B102320A	DAY OF YEAR 320

START TIME	09:11	U.T.C.	
END TIME	10:11	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT		MEASURED	FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	80098244		
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters	MEASURED	X FIXED HGT

TOP OF MONUMENT IS:	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LIDAR Check Point

AERIAL TARGET		PHOTO I.D.	
PUB. BENCH MARK		X	NEW GROUND CHECK
PUB. CONTROL			BASE STATION

PHOTO:

PHOTO:





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:
1

2670 Wilhite Drive
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JOB REFERENCE
Baldwin County

POINT ID: **C102**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Bridgehead**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3391676.295	Elevation	8.032
Easting	412680.094		

SESSION: C102320A	DATE: 11/16/10	START TIME: 08:57	U.T.C.
	DAY OF YEAR: 320	END TIME: 09:57	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA

RADIUS (M)		
Antenna Serial #	80098244	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	X	FIXED HGT
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TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Control Point

AERIAL TARGET	PHOTO I.D.
PUB. BENCH MARK	X NEW GROUND CONTROL
PUB. CONTROL	BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B103**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Hurricane**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3402705.695	Elevation	19.822
Easting	413204.920		

SESSION: **C103320C** DATE: **11/16/10**
DAY OF YEAR: **320**

START TIME: **12:38** U.T.C.
END TIME: **01:38** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED: FIXED HGT:

TOP OF MONUMENT IS: FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

LiDAR Check Point

AERIAL TARGET:
PUB. BENCH MARK: PHOTO I.D.: **NEW GROUND CHECK**
PUB. CONTROL: BASE STATION

PHOTO: PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C103**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Hurricane**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3402646.888	Elevation	18.692
Easting	413112.861		

SESSION: **C103320C** DATE: **11/16/10**
DAY OF YEAR: **320**

START TIME: **12:45** U.T.C.
END TIME: **01:45** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED: FIXED HGT:

TOP OF MONUMENT IS: FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

LiDAR Control Point

AERIAL TARGET:
PUB. BENCH MARK: PHOTO I.D.:
PUB. CONTROL: NEW GROUND CONTROL:
BASE STATION:

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B104**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Hurricane**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3409871.961	Elevation	14.042
Easting	412580.035		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

SESSION: B104320D	DATE: 11/16/10	START TIME: 14:23	U.T.C.
	DAY OF YEAR: 320	END TIME: 15:29	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA

RADIUS (M)		
Antenna Serial #	80098244	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	X	FIXED HGT
---------	---------------------	----------	----------	-----------

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Check Point

AERIAL TARGET	PHOTO I.D.
PUB. BENCH MARK	X NEW GROUND CHECK
PUB. CONTROL	BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C104**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Hurricane**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3410037.877	Elevation	11.185
Easting	412596.302		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

SESSION: C104320D	DATE: 11/16/10	START TIME: 14:29	U.T.C.
	DAY OF YEAR: 320	END TIME: 15:29	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA

RADIUS (M)			
Antenna Serial #	80098244		
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP	

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Control Point

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK	X	NEW GROUND CONTROL
PUB. CONTROL		BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B105**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Hurricane**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3412529.420	Elevation	1.851
Easting	413135.495		

SESSION: **B105320E** DATE: **11/16/10**
DAY OF YEAR: **320**

START TIME: **16:53** U.T.C.
END TIME: **18:01** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
 MEASURED X FIXED HGT

TOP OF MONUMENT IS: FLUSH
 METERS/FEET ABOVE GROUND
 METERS/FEET BELOW GROUND

LIDAR Check Point

AERIAL TARGET:
PUB. BENCH MARK: X
PUB. CONTROL: PHOTO I.D.:
 X NEW GROUND CHECK
 BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C105**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Hurricane**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3412282.890	Elevation	1.281
Easting	413083.077		

SESSION: **C105320E** DATE: **11/16/10**
DAY OF YEAR: **320**

START TIME: **17:01** U.T.C.
END TIME: **18:01** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: **MEASURED** FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED X FIXED HGT

TOP OF MONUMENT IS: **FLUSH**
METERS/FEET: **ABOVE GROUND**
METERS/FEET: **BELOW GROUND**

LiDAR Control Point

AERIAL TARGET
PUB. BENCH MARK X PHOTO I.D.
PUB. CONTROL **NEW GROUND CONTROL**
BASE STATION



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JOB REFERENCE
Baldwin County

POINT ID: **B201**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Gulf Shores**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3355938.854	Elevation	12.917
Easting	438407.231		

SESSION: **B201321F** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **10:10** U.T.C.
END TIME: **11:22** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
 MEASURED X FIXED HGT

TOP OF MONUMENT IS: FLUSH
 METERS/FEET ABOVE GROUND
 METERS/FEET BELOW GROUND

LIDAR Check Point

AERIAL TARGET:
PUB. BENCH MARK: X
PUB. CONTROL: PHOTO I.D.:
 X NEW GROUND CHECK
 BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C201**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Gulf Shores**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3355810.102	Elevation	12.495
Easting	438405.389		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

SESSION: C201321F	DATE: 11/17/10	START TIME: 10:22	U.T.C.
	DAY OF YEAR: 321	END TIME: 11:22	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA

RADIUS (M)		
Antenna Serial #	80098244	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	X	FIXED HGT
---------	---------------------	----------	----------	-----------

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Control Point

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK	X	NEW GROUND CONTROL
PUB. CONTROL		BASE STATION

PHOTO: PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B202**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Elberta**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3363221.668	Elevation	20.790
Easting	441336.025		

SESSION: **B202321G** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **11:59** U.T.C.
END TIME: **13:06** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED FIXED HGT

TOP OF MONUMENT IS: FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

LiDAR Check Point

AERIAL TARGET PHOTO I.D.
PUB. BENCH MARK NEW GROUND CHECK
PUB. CONTROL BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C202**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Elberta**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3363220.664	Elevation	22.175
Easting	441537.308		

SESSION: **C202321G** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **12:06** U.T.C.
END TIME: **13:06** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
 MEASURED X FIXED HGT

TOP OF MONUMENT IS: FLUSH
 METERS/FEET ABOVE GROUND
 METERS/FEET BELOW GROUND

LiDAR Control Point

AERIAL TARGET:
PUB. BENCH MARK: X
PUB. CONTROL: PHOTO I.D.:
 X NEW GROUND CONTROL
 BASE STATION

PHOTO:

PHOTO:



2670 Wilhite Drive
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JOB REFERENCE
Baldwin County

POINT ID: **B203**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Orange Beach**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3358466.759	Elevation	9.783
Easting	451138.271		

SESSION: **B203321I** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **15:06** U.T.C.
END TIME: **16:13** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
 MEASURED X FIXED HGT

TOP OF MONUMENT IS: FLUSH
 METERS/FEET ABOVE GROUND
 METERS/FEET BELOW GROUND

LiDAR Check Point

AERIAL TARGET:
PUB. BENCH MARK: X PHOTO I.D.
PUB. CONTROL: NEW GROUND CHECK
 BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C203**
Proj. No.: **7505-059**

STATE **AL**

COUNTY **Baldwin**

QUAD:

OPERATOR **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL **Trimble 4000**
RECEIVER S/N **3538A16968**

Northing	3358635.950	Elevation	10.024
Easting	451029.895		

SESSION **C203321I** DATE: **11/17/10**
DAY OF YEAR **321**

START TIME **15:13** U.T.C.
END TIME **16:13** **X** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT
MEASURED FIXED HGT.

ANTENNA
RADIUS (M)
Antenna Serial # **80098244**
Antenna Type **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT **2.000 Meters**
MEASURED **X** FIXED HGT

TOP OF MONUMENT IS: **FLUSH**
METERS/FEET **ABOVE GROUND**
METERS/FEET **BELOW GROUND**

LiDAR Control Point

AERIAL TARGET
PUB. BENCH MARK **X** PHOTO I.D.
PUB. CONTROL **NEW GROUND CONTROL**
BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B204**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Elberta**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3364870.065	Elevation	23.311
Easting	448940.183		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

SESSION	DATE: 11/17/10	START TIME: 13:31	U.T.C.
	DAY OF YEAR: 321	END TIME: 14:40	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA

RADIUS (M)		
Antenna Serial #	80098244	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters
MEASURED	X FIXED HGT

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LIDAR Check Point

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK	X	NEW GROUND CHECK
PUB. CONTROL		BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C204**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Elberta**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3365119.953	Elevation	23.856
Easting	448920.505		

SESSION: **C204321H** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **13:40** U.T.C.
END TIME: **14:40** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
 MEASURED X FIXED HGT

TOP OF MONUMENT IS: FLUSH
 METERS/FEET ABOVE GROUND
 METERS/FEET BELOW GROUND

LiDAR Control Point

AERIAL TARGET:
PUB. BENCH MARK: X
PUB. CONTROL: PHOTO I.D.:
 X NEW GROUND CONTROL
 BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B205**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Lillian**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing	3364143.665	Elevation	22.356
Easting	456652.648		

SESSION: **B205321J** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **16:54** U.T.C.
END TIME: **17:54** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
 MEASURED X FIXED HGT

TOP OF MONUMENT IS: FLUSH
 METERS/FEET ABOVE GROUND
 METERS/FEET BELOW GROUND

LiDAR Check Point

AERIAL TARGET:
PUB. BENCH MARK: X PHOTO I.D.
PUB. CONTROL: NEW GROUND CHECK
 BASE STATION

PHOTO:

PHOTO:





**GPS CONTROL SURVEY
FIELD DATA SHEET**

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JOB REFERENCE
Baldwin County

POINT ID: **C205**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Lillian**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

Northing: **3364302.415** Elevation: **22.787**
Easting: **456664.814**

SESSION: **C205321J** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **16:54** U.T.C.
END TIME: **17:54** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **80098244**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED: FIXED HGT:

TOP OF MONUMENT IS: FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

LiDAR Control Point

AERIAL TARGET:
PUB. BENCH MARK: PHOTO I.D.: **NEW GROUND CONTROL**
PUB. CONTROL: BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B206**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Lillian**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

Northing	3370480.699	Elevation	25.102
Easting	452296.879		

SESSION: **B206321H** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **13:50** U.T.C.
END TIME: **14:50** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **220082895**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED: FIXED HGT:

TOP OF MONUMENT IS: FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

LiDAR Check Point

AERIAL TARGET:
PUB. BENCH MARK: PHOTO I.D.: **NEW GROUND CHECK**
PUB. CONTROL: BASE STATION:

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C206**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Lillian**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3370642.927	Elevation	25.070
Easting	452278.236		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

SESSION: **C206321H** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **13:43** U.T.C.
END TIME: **14:43** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **220082895**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **1.586 Meters**
 MEASURED FIXED HGT

TOP OF MONUMENT IS: FLUSH
 ABOVE GROUND
 BELOW GROUND

LiDAR Control

AERIAL TARGET:
PUB. BENCH MARK: PHOTO I.D.
PUB. CONTROL: NEW GROUND CONTROL
BASE STATION

PHOTO:



PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B207**
Proj. No.: **7505-059**

STATE: **FL** COUNTY: **Escambia** QUAD: **Lillian**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3369954.160	Elevation	1.130
Easting	460698.398		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

SESSION: B207321K	DATE: 11/17/10	START TIME: 18:43	U.T.C.
	DAY OF YEAR: 321	END TIME: 19:49	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
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ANTENNA

RADIUS (M)		
Antenna Serial #	80098244	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	X	FIXED HGT
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TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Check Point

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK	X	NEW GROUND CHECK
PUB. CONTROL		BASE STATION

PHOTO:

PHOTO:





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FIELD DATA SHEET**

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JOB REFERENCE
Baldwin County

POINT ID: **C207**
Proj. No.: **7505-059**

STATE: **FL** COUNTY: **Escambia** QUAD: **Lillian**

OPERATOR: **D. Mullins**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3364302.415	Elevation	22.787
Easting	456664.814		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3538A16968**

SESSION: C207321K	DATE: 11/17/10	START TIME: 18:49	U.T.C.
	DAY OF YEAR: 321	END TIME: 19:49	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
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ANTENNA

RADIUS (M)		
Antenna Serial #	80098244	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	X	FIXED HGT
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TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Control Point

AERIAL TARGET	PHOTO I.D.
PUB. BENCH MARK	X NEW GROUND CONTROL
PUB. CONTROL	BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B208**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Elsanor**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

Northing: **3377393.415** Elevation: **15.603**
Easting: **450484.353**

SESSION: **B208320E** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **09:02** U.T.C.
END TIME: **10:02** LOCAL: **X**

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **220082895**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED: FIXED HGT:

TOP OF MONUMENT IS: FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

LiDAR Check Point

AERIAL TARGET:
PUB. BENCH MARK: PHOTO I.D.: **NEW GROUND CHECK**
PUB. CONTROL: BASE STATION:

PHOTO:



PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C208**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Elsanor**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3377252.012	Elevation	15.808
Easting	450481.668		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

SESSION: C208321E	DATE: 11/17/10	START TIME: 09:00	U.T.C.
	DAY OF YEAR: 321	END TIME: 10:00	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
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ANTENNA

RADIUS (M)		
Antenna Serial #	220082895	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	1.631 Meters
X MEASURED	FIXED HGT

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Control

AERIAL TARGET	PHOTO I.D.
PUB. BENCH MARK	X NEW GROUND CONTROL
PUB. CONTROL	BASE STATION

PHOTO:



PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B209**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Seminole**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

Northing	3375942.014	Elevation	27.880
Easting	454677.091		

SESSION: **B209321F** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **10:25** U.T.C.
END TIME: **11:25** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: **MEASURED** FIXED HGT.

ANTENNA
RADIUS (M): **220082895**
Antenna Serial #
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **1.690 Meters**
X MEASURED FIXED HGT

TOP OF MONUMENT IS: **FLUSH**
METERS/FEET: **ABOVE GROUND**
METERS/FEET: **BELOW GROUND**

LiDAR Check Point

AERIAL TARGET
PUB. BENCH MARK: **X** PHOTO I.D.
PUB. CONTROL: **NEW GROUND CHECK**
BASE STATION

PHOTO:



PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C209**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Seminole**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

Northing	3375977.681	Elevation	27.358
Easting	454716.459		

SESSION	DATE:	11/17/10
C209321F	DAY OF YEAR	321

START TIME	10:17	U.T.C.	
END TIME	11:17	X	LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
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ANTENNA

RADIUS (M)			
Antenna Serial #	220082895		
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP	

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters		
	MEASURED	X	FIXED HGT

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Control

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK	X	NEW GROUND CONTROL
PUB. CONTROL		BASE STATION



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JOB REFERENCE
Baldwin County

POINT ID: **B210**
Proj. No.: **7505-059**

STATE: **FL** COUNTY: **Escambia** QUAD: **Seminole**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3376765.598	Elevation	3.961
Easting	457316.192		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

SESSION: B210321G	DATE: 11/17/10	START TIME: 11:57	U.T.C.
	DAY OF YEAR: 321	END TIME: 12:57	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
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ANTENNA

RADIUS (M)		
Antenna Serial #	220082895	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	1.634 Meters
X MEASURED	FIXED HGT

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Check Point

AERIAL TARGET	PHOTO I.D.
PUB. BENCH MARK	X NEW GROUND CHECK
PUB. CONTROL	BASE STATION



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JOB REFERENCE
Baldwin County

POINT ID: **C210**
Proj. No.: **7505-059**

STATE: **FL** COUNTY: **Escambia** QUAD: **Seminole**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

Northing	3376775.735	Elevation	3.674
Easting	457498.217		

SESSION: **C210321G** DATE: **11/17/10**
DAY OF YEAR: **321**

START TIME: **11:57** U.T.C.
END TIME: **00:57** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **220082895**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED: X FIXED HGT

TOP OF MONUMENT IS: FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

LiDAR Control

AERIAL TARGET:
PUB. BENCH MARK: X PHOTO I.D.
PUB. CONTROL: NEW GROUND CONTROL
BASE STATION

PHOTO:



PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B211**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Seminole**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3383161.836	Elevation	22.755
Easting	453979.127		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

SESSION: B211321I	DATE: 11/17/10	START TIME: 16:05	U.T.C.
	DAY OF YEAR: 321	END TIME: 17:05	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
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ANTENNA

RADIUS (M)		
Antenna Serial #	220082895	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	1.649 Meters	
X	MEASURED	FIXED HGT

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Check Point

AERIAL TARGET	PHOTO I.D.
PUB. BENCH MARK	X NEW GROUND CHECK
PUB. CONTROL	BASE STATION

PHOTO:



PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **C211**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Seminole**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3383135.762	Elevation	22.131
Easting	453916.102		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

SESSION: C211321I	DATE: 11/17/10	START TIME: 16:14	U.T.C.
	DAY OF YEAR: 321	END TIME: 17:14	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
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ANTENNA

RADIUS (M)		
Antenna Serial #	220082895	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	X	FIXED HGT
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TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Control

AERIAL TARGET	PHOTO I.D.
PUB. BENCH MARK	X NEW GROUND CONTROL
PUB. CONTROL	BASE STATION

PHOTO:

PHOTO:



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JOB REFERENCE
Baldwin County

POINT ID: **B212**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Seminole**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3382832.565	Elevation	11.827
Easting	459472.795		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

SESSION: B212320D	DATE: 11/16/10	START TIME: 15:28	U.T.C.
	DAY OF YEAR: 320	END TIME: 16:28	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA

RADIUS (M)		
Antenna Serial #	220082895	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters
MEASURED	X FIXED HGT

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LIDAR Check Point

AERIAL TARGET	PHOTO I.D.
PUB. BENCH MARK	X NEW GROUND CHECK
PUB. CONTROL	BASE STATION

point

PHOTO:



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Baldwin County

POINT ID: **C212**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Seminole**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3382804.829	Elevation	11.550
Easting	459582.727		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

SESSION	DATE: 11/16/10	START TIME: 15:17	U.T.C.
	DAY OF YEAR: 320	END TIME: 16:17	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA

RADIUS (M)		
Antenna Serial #	220082895	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	1.660 Meters	
X	MEASURED	FIXED HGT

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Control

AERIAL TARGET	PHOTO I.D.
PUB. BENCH MARK	X NEW GROUND CONTROL
PUB. CONTROL	BASE STATION

PHOTO:

PHOTO:



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Baldwin County

POINT ID: **B213**
Proj. No.: **7505-059**

STATE: **FL** COUNTY: **Escambia** QUAD: **Seminole**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3387869.151	Elevation	25.704
Easting	463154.281		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

SESSION: **B213320C** DATE: **11/16/10**
DAY OF YEAR: **320**

START TIME: **11:25** U.T.C.
END TIME: **12:25** LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	-----------------	-------------------

ANTENNA

RADIUS (M)			
Antenna Serial #	220082895		
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP	

ANTENNA HEIGHT (ARP)

MTRS/FT	1.656 Meters	
X	MEASURED	FIXED HGT

TOP OF MONUMENT IS: **FLUSH**

METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Check Point

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK	X	NEW GROUND CHECK
PUB. CONTROL		BASE STATION

point PHOTO:



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Baldwin County

POINT ID: **C213**
Proj. No.: **7505-059**

STATE: **FL** COUNTY: **Escambia** QUAD: **Barrineau Park**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3388311.172	Elevation	17.805
Easting	463274.468		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

SESSION: C213320C	DATE: 11/16/10	START TIME: 13:12	U.T.C.
	DAY OF YEAR: 320	END TIME: 14:12	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
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ANTENNA

RADIUS (M)		
Antenna Serial #	220082895	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	X	FIXED HGT
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TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Control

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK		X NEW GROUND CONTROL
PUB. CONTROL		BASE STATION



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Baldwin County

POINT ID: **B214**
Proj. No.: **7505-059**

STATE: **FL** COUNTY: **Escambia** QUAD: **Barrineau Park**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

Northing	3396068.472	Elevation	22.613
Easting	459081.178		

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

SESSION: B214320B	DATE: 11/16/10	START TIME: 11:25	U.T.C.
	DAY OF YEAR: 320	END TIME: 12:25	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA

RADIUS (M)		
Antenna Serial #	220082895	
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	X	FIXED HGT
---------	---------------------	----------	----------	-----------

TOP OF MONUMENT IS:

	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Check Point

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK	X	NEW GROUND CHECK
PUB. CONTROL		BASE STATION

PHOTO:

PHOTO:



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Baldwin County

POINT ID: **C214**
Proj. No.: **7505-059**

STATE: **FL** COUNTY: **Escambia** QUAD: **Barrineau Park**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

Northing	3396106.91	Elevation	23.484
Easting	459218.169		

SESSION: **C214320B** DATE: **11/16/10**
DAY OF YEAR: **320**

START TIME: **11:18** U.T.C.
END TIME: **12:18** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **220082895**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **1.606 Meters**
 MEASURED FIXED HGT

TOP OF MONUMENT IS: FLUSH
 ABOVE GROUND
 BELOW GROUND

LiDAR Control

AERIAL TARGET:
PUB. BENCH MARK: PHOTO I.D.
PUB. CONTROL: NEW GROUND CONTROL
BASE STATION

PHOTO:

PHOTO:



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Baldwin County

POINT ID: **B215**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Gateswood**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

Northing	3396184.664	Elevation	57.755
Easting	450035.635		

SESSION: **B215320A** DATE: **11/16/10**
DAY OF YEAR: **320**

START TIME: **08:56** U.T.C.
END TIME: **09:56** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **220082895**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **1.665 Meters**
 MEASURED FIXED HGT

TOP OF MONUMENT IS: FLUSH
 ABOVE GROUND
 BELOW GROUND

LIDAR Check Point

AERIAL TARGET:
PUB. BENCH MARK: PHOTO I.D.: **NEW GROUND CHECK**
PUB. CONTROL: BASE STATION

PHOTO:



PHOTO:



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Baldwin County

POINT ID: **C215**
Proj. No.: **7505-059**

STATE: **AL** COUNTY: **Baldwin** QUAD: **Gateswood**

OPERATOR: **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL: **Trimble 4000**
RECEIVER S/N: **3616A15459**

Northing	3396176.595	Elevation	57.986
Easting	450142.92		

SESSION: **C215320A** DATE: **11/16/10**
DAY OF YEAR: **320**

START TIME: **08:42** U.T.C.
END TIME: **09:42** LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: **MEASURED** FIXED HGT.

ANTENNA
RADIUS (M):
Antenna Serial #: **220082895**
Antenna Type: **TRM22020.00+GP** Trimble Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED X FIXED HGT

TOP OF MONUMENT IS: **FLUSH**
METERS/FEET: **ABOVE GROUND**
METERS/FEET: **BELOW GROUND**

LiDAR Control

AERIAL TARGET
PUB. BENCH MARK: X
PUB. CONTROL
PHOTO I.D.
NEW GROUND CONTROL
BASE STATION

PHOTO:



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Baldwin County

POINT ID: **B216**
Proj. No.: **7505-059**

STATE **AL**

COUNTY **Baldwin**

QUAD: **Barrineau Park**

OPERATOR **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL **Trimble 4000**
RECEIVER S/N **3616A15459**

Northing	3394604.653	Elevation	538.235
Easting	452573.759		

SESSION	DATE: 11/17/10
B216321J	DAY OF YEAR 321

START TIME	17:57	U.T.C.	
END TIME	18:57	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT		MEASURED	FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	220082895		
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters	MEASURED	X FIXED HGT

TOP OF MONUMENT IS:	FLUSH
METERS/FEET	ABOVE GROUND
METERS/FEET	BELOW GROUND

LiDAR Check Point

AERIAL TARGET		PHOTO I.D.	
PUB. BENCH MARK		X	NEW GROUND CHECK
PUB. CONTROL			BASE STATION

PHOTO:

PHOTO:



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Baldwin County

POINT ID: **C216**
Proj. No.: **7505-059**

STATE **AL**

COUNTY **Baldwin**

QUAD: **Barrineau Park**

OPERATOR **K Roberts**

NAD83 UTM N Zone 16 NAVD88 Meters

RECEIVER MODEL **Trimble 4000**
RECEIVER S/N **3616A15459**

Northing	3394504.69	Elevation	39.432
Easting	452687.729		

SESSION	DATE: 11/17/10
C216321J	DAY OF YEAR 321

START TIME	17:50	U.T.C.	
END TIME	18:50	X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT		MEASURED	FIXED HGT.

ANTENNA			
RADIUS (M)			
Antenna Serial #	220082895		
Antenna Type	TRM22020.00+GP	Trimble Geodetic L1/L2 Compact/GP	

ANTENNA HEIGHT (ARP)			
MTRS/FT	1.700 Meters		
X	MEASURED		FIXED HGT

TOP OF MONUMENT IS:		FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

LiDAR Control

AERIAL TARGET		PHOTO I.D.
PUB. BENCH MARK		X NEW GROUND CONTROL
PUB. CONTROL		BASE STATION

PHOTO:

PHOTO:



V. NGS Control Data Sheets

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

DATABASE = , PROGRAM = datasheet, VERSION = 7.85

```

1      National Geodetic Survey,      Retrieval Date = NOVEMBER 18, 2010
DM3330 *****
DM3330 CORS          - This is a GPS Continuously Operating Reference Station.
DM3330 DESIGNATION  - ALDOT 9 DIV OFF CORS L1 PHASE CENTER
DM3330 CORS_ID     - AL90
DM3330 PID         - DM3330
DM3330 STATE/COUNTY- AL/MOBILE
DM3330 USGS QUAD   - MOBILE (1982)
DM3330
DM3330                      *CURRENT SURVEY CONTROL
DM3330
DM3330* NAD 83(CORS)- 30 41 26.96953(N)    088 01 54.13730(W)    ADJUSTED
DM3330* NAVD 88      -                      ***(meters)          ***(feet)
DM3330
DM3330 EPOCH DATE   -          2002.00
DM3330 X            -          188,546.769 (meters)              COMP
DM3330 Y            -         -5,486,313.308 (meters)           COMP
DM3330 Z            -          3,236,456.564 (meters)           COMP
DM3330 ELLIP HEIGHT-          -15.901 (meters)                (03/??/07) ADJUSTED
DM3330 GEOID HEIGHT-          -28.52 (meters)                  GEOID09
DM3330 HORZ ORDER  - SPECIAL (CORS)
DM3330 ELLP ORDER  - SPECIAL (CORS)
DM3330
DM3330. ITRF positions are available for this station.
DM3330. The coordinates were established by GPS observations
DM3330. and adjusted by the National Geodetic Survey in March 2007.
DM3330. The coordinates are valid at the epoch date displayed above.
DM3330. The epoch date for horizontal control is a decimal equivalence
DM3330. of Year/Month/Day.
DM3330
DM3330
DM3330. The PID for the CORS ARP is DI3826.
DM3330
DM3330. The XYZ, and position/ellipsoidal ht. are equivalent.
DM3330
DM3330. The ellipsoidal height was determined by GPS observations
DM3330. and is referenced to NAD 83.
DM3330
DM3330. The geoid height was determined by GEOID09.
DM3330
DM3330;
DM3330; SPC AL W      -          North          East          Units Scale Factor Converg.
DM3330; SPC AL W      -          76,699.201    549,059.875    MT    0.99996533    -0 16 17.0
DM3330
DM3330!
DM3330! SPC AL W      -          Elev Factor x  Scale Factor =  Combined Factor
DM3330! SPC AL W      -          1.00000250 x  0.99996533 =  0.99996783
DM3330
DM3330                      SUPERSEDED SURVEY CONTROL
DM3330
DM3330. No superseded survey control is available for this station.
DM3330
DM3330_U.S. NATIONAL GRID SPATIAL ADDRESS: 16RDU0118895792(NAD 83)
DM3330_MARKER: STATION IS THE L1 PHASE CENTER OF THE GPS ANTENNA

```

DM3330

DM3330

STATION DESCRIPTION

DM3330

DM3330'DESCRIBED BY NATIONAL GEODETIC SURVEY

DM3330'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND

DM3330'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DM3330'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DM3330' FTP CORS.NGS.NOAA.GOV: CORS/COORD AND CORS/STATION_LOG

DM3330' HTTP://WWW.NGS.NOAA.GOV/CORS.

*** retrieval complete.

Elapsed Time = 00:00:00

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

DATABASE = ,PROGRAM = datasheet, VERSION = 7.85

```

1      National Geodetic Survey,   Retrieval Date = NOVEMBER 18, 2010
DM2661 *****
DM2661  CORS          - This is a GPS Continuously Operating Reference Station.
DM2661  DESIGNATION - ALDOT 9 DIV DIS 2 CORS L1 PHASE CENTER
DM2661  CORS_ID      - AL92
DM2661  PID          - DM2661
DM2661  STATE/COUNTY- AL/BALDWIN
DM2661  USGS QUAD    - BAY MINETTE NORTH (1985)
DM2661
DM2661                      *CURRENT SURVEY CONTROL
DM2661
DM2661 * NAD 83(CORS)- 30 54 58.98645(N)    087 46 32.46308(W)    ADJUSTED
DM2661 * NAVD 88      -                      ** (meters)          ** (feet)
DM2661
DM2661 EPOCH DATE    -          2002.00
DM2661 X              -          212,565.447 (meters)              COMP
DM2661 Y              -          -5,472,686.860 (meters)          COMP
DM2661 Z              -          3,257,975.923 (meters)          COMP
DM2661 ELLIP HEIGHT-          62.409 (meters)                    (08/??/10) ADJUSTED
DM2661 GEOID HEIGHT-          -28.35 (meters)                    GEOID09
DM2661 HORZ ORDER    - SPECIAL (CORS)
DM2661 ELLP ORDER    - SPECIAL (CORS)
DM2661
DM2661. ITRF positions are available for this station.
DM2661. The coordinates were established by GPS observations
DM2661. and adjusted by the National Geodetic Survey in August 2010.
DM2661. The coordinates are valid at the epoch date displayed above.
DM2661. The epoch date for horizontal control is a decimal equivalence
DM2661. of Year/Month/Day.
DM2661
DM2661
DM2661. The PID for the CORS ARP is DM2660.
DM2661
DM2661. The XYZ, and position/ellipsoidal ht. are equivalent.
DM2661
DM2661. The ellipsoidal height was determined by GPS observations
DM2661. and is referenced to NAD 83.
DM2661
DM2661. The geoid height was determined by GEOID09.
DM2661
DM2661;
DM2661; SPC AL W      -          North          East          Units Scale Factor Converg.
DM2661; SPC AL W      -          101,616.447    573,649.748    MT    0.99994190    -0 08 29.9
DM2661
DM2661!
DM2661! SPC AL W      -          Elev Factor x Scale Factor = Combined Factor
DM2661! SPC AL W      -          0.99999020 x 0.99994190 = 0.99993210
DM2661
DM2661                      SUPERSEDED SURVEY CONTROL
DM2661
DM2661. No superseded survey control is available for this station.
DM2661
DM2661_U.S. NATIONAL GRID SPATIAL ADDRESS: 16RDV2588220593(NAD 83)
DM2661_MARKER: STATION IS THE L1 PHASE CENTER OF THE GPS ANTENNA

```

DM2661

DM2661

STATION DESCRIPTION

DM2661

DM2661'DESCRIBED BY NATIONAL GEODETIC SURVEY

DM2661'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND

DM2661'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DM2661'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DM2661' FTP CORS.NGS.NOAA.GOV: CORS/COORD AND CORS/STATION_LOG

DM2661' HTTP://WWW.NGS.NOAA.GOV/CORS.

*** retrieval complete.

Elapsed Time = 00:00:00

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

DATABASE = ,PROGRAM = datasheet, VERSION = 7.85

```

1      National Geodetic Survey,      Retrieval Date = NOVEMBER 23, 2010
DL7332 *****
DL7332  CORS          - This is a GPS Continuously Operating Reference Station.
DL7332  DESIGNATION  - FOLEY CORS L1 PHASE CENTER
DL7332  CORS_ID      - ALFO
DL7332  PID          - DL7332
DL7332  STATE/COUNTY- AL/BALDWIN
DL7332  USGS QUAD    - FOLEY (1980)
DL7332
DL7332                      *CURRENT SURVEY CONTROL
DL7332
DL7332* NAD 83(CORS)- 30 25 01.02249(N)    087 40 30.26166(W)    ADJUSTED
DL7332* NAVD 88      -                      *(meters)                *(feet)
DL7332
DL7332  EPOCH DATE   -          2002.00
DL7332  X            -          223,318.771 (meters)                COMP
DL7332  Y            -          -5,500,472.871 (meters)            COMP
DL7332  Z            -           3,210,320.555 (meters)            COMP
DL7332  ELLIP HEIGHT-           4.533 (meters)                (04/??/10) ADJUSTED
DL7332  GEOID HEIGHT-          -27.88 (meters)                GEOID09
DL7332  HORZ ORDER   - SPECIAL (CORS)
DL7332  ELLP ORDER   - SPECIAL (CORS)
DL7332
DL7332. ITRF positions are available for this station.
DL7332. The coordinates were established by GPS observations
DL7332. and adjusted by the National Geodetic Survey in April 2010.
DL7332. The coordinates are valid at the epoch date displayed above.
DL7332. The epoch date for horizontal control is a decimal equivalence
DL7332. of Year/Month/Day.
DL7332
DL7332
DL7332. The PID for the CORS ARP is DL7331.
DL7332
DL7332. The XYZ, and position/ellipsoidal ht. are equivalent.
DL7332
DL7332. The ellipsoidal height was determined by GPS observations
DL7332. and is referenced to NAD 83.
DL7332
DL7332. The geoid height was determined by GEOID09.
DL7332
DL7332;
DL7332; SPC AL W      -          North          East          Units Scale Factor Converg.
DL7332; SPC AL W      -          46,231.401    583,180.058    MT    0.99993682    -0 05 19.1
DL7332
DL7332!
DL7332! SPC AL W      -          Elev Factor x Scale Factor = Combined Factor
DL7332! SPC AL W      -          0.99999929 x 0.99993682 = 0.99993611
DL7332
DL7332                      SUPERSEDED SURVEY CONTROL
DL7332
DL7332. No superseded survey control is available for this station.
DL7332
DL7332_U.S. NATIONAL GRID SPATIAL ADDRESS: 16RDU3516365181(NAD 83)
DL7332_MARKER: STATION IS THE L1 PHASE CENTER OF THE GPS ANTENNA

```

DL7332

DL7332

STATION DESCRIPTION

DL7332

DL7332'DESCRIBED BY NATIONAL GEODETIC SURVEY

DL7332'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND

DL7332'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DL7332'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DL7332' FTP CORS.NGS.NOAA.GOV: CORS/COORD AND CORS/STATION_LOG

DL7332' HTTP://WWW.NGS.NOAA.GOV/CORS.

*** retrieval complete.

Elapsed Time = 00:00:00

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

DATABASE = , PROGRAM = datasheet, VERSION = 7.85

```

1      National Geodetic Survey,   Retrieval Date = NOVEMBER 23, 2010
DG4684 *****
DG4684  CORS          - This is a GPS Continuously Operating Reference Station.
DG4684  DESIGNATION  - PENSACOLA CORS L1 PHASE CENTER
DG4684  CORS_ID      - PCLA
DG4684  PID          - DG4684
DG4684  STATE/COUNTY- FL/ESCAMBIA
DG4684  USGS QUAD    - PENSACOLA (1994)
DG4684
DG4684                      *CURRENT SURVEY CONTROL
DG4684
DG4684* NAD 83(CORS)- 30 28 08.46143(N)    087 11 21.88793(W)    ADJUSTED
DG4684* NAVD 88      -                      *(meters)                *(feet)
DG4684
DG4684  EPOCH DATE   -          2002.00
DG4684  X            -          269,790.700 (meters)                COMP
DG4684  Y            -         -5,495,460.366 (meters)                COMP
DG4684  Z            -          3,215,296.319 (meters)                COMP
DG4684  ELLIP HEIGHT-          3.469 (meters)                (03/??/04) ADJUSTED
DG4684  GEOID HEIGHT-         -27.42 (meters)                GEOID09
DG4684  HORZ ORDER   - SPECIAL (CORS)
DG4684  ELLP ORDER   - SPECIAL (CORS)
DG4684
DG4684. ITRF positions are available for this station.
DG4684. The coordinates were established by GPS observations
DG4684. and adjusted by the National Geodetic Survey in March 2004.
DG4684. The coordinates are valid at the epoch date displayed above.
DG4684. The epoch date for horizontal control is a decimal equivalence
DG4684. of Year/Month/Day.
DG4684
DG4684
DG4684. The PID for the CORS ARP is DG4683.
DG4684
DG4684. The XYZ, and position/ellipsoidal ht. are equivalent.
DG4684
DG4684. The ellipsoidal height was determined by GPS observations
DG4684. and is referenced to NAD 83.
DG4684
DG4684. The geoid height was determined by GEOID09.
DG4684
DG4684;
DG4684;          North          East          Units Scale Factor Converg.
DG4684; SPC FL N    -    165,883.964    341,771.114    MT    0.99996225    -1 21 05.4
DG4684; SPC FL N    -    544,237.64    1,121,294.06    sFT    0.99996225    -1 21 05.4
DG4684
DG4684!          - Elev Factor x Scale Factor = Combined Factor
DG4684! SPC FL N    -    0.99999946 x    0.99996225 =    0.99996171
DG4684
DG4684                      SUPERSEDED SURVEY CONTROL
DG4684
DG4684. No superseded survey control is available for this station.
DG4684
DG4684_U.S. NATIONAL GRID SPATIAL ADDRESS: 16RDU8181870773(NAD 83)

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DG4684_MARKER: STATION IS THE L1 PHASE CENTER OF THE GPS ANTENNA

DG4684

DG4684

STATION DESCRIPTION

DG4684

DG4684'DESCRIBED BY NATIONAL GEODETIC SURVEY

DG4684'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND

DG4684'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DG4684'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DG4684' FTP CORS.NGS.NOAA.GOV: CORS/COORD AND CORS/STATION_LOG

DG4684' HTTP://WWW.NGS.NOAA.GOV/CORS.

*** retrieval complete.

Elapsed Time = 00:00:00