APPENDIX 1 MONUMENT INFORMATION REPORT

CONTROL MONUMENT USED BY APTIM FOR 2020 TOWN OF DUCK TOPOGRAPHIC AND HYDROGRAPHIC SURVEY REPORT JUNE 2020 DATUMS: NAD83(2011) - NAVD1988 (US SURVEY FEET)			
Designation KITTY			
Stamping			
Northing	859358.84		
Easting	2977204.86		
Horizontal Root Mean Square Error	0.11		
Elevation 9.17			
Vertical Root Mean Square Error	0.23		
Description	Station is located about 0.65 miles east of the post office in Kitty Hawk. The station is a standard disk		
	set in a 12x12 inch concrete monument. It is 126		
feet east-southeast of the intersection, 17 feet east			
of a power line pole and 2.7 feet northeast of a			
metal witness post with sign. The mark is flush			
with the ground.			





Location Verification: KITTY Monument: KITTY

Mean of Inverse Shots – Published Versus APTIM Found				
Monument No. of Shots ΔN ΔE ΔZ				
KITTY	33	0.00	-0.02	0.15



CONTROL MONUMENT USED BY APTIM FOR 2020 TOWN OF DUCK TOPOGRAPHIC AND HYDROGRAPHIC SURVEY REPORT JUNE 2020 DATUMS: NAD83(2011) - NAVD1988 (US SURVEY FEET)			
Designation Way			
Stamping	Way		
Northing	924642.81		
Easting	2948590.66		
Horizontal Root Mean Square Error	0.11		
Elevation	4.88		
Vertical Root Mean Square Error	0.05		
Description The mark is 18.9 MI SE of Currituck and 5.6 Mi. NE of Jarvisburg along NC 12 for 1.4 Mi. N from the Currituck/Dare county line on the centerline prolongation of an asphalt runway. Mark is about 3 Ft. lower than NC 12 and recessed 3 In. below the ground. Located 175.5 Ft. W of the centerline of NC 12, 168 Ft. S-SE of the S end of the private runway.			

Mean of Inverse Shots – Published Versus APTIM Found				
Monument	No. of Shots	ΔΝ	ΔΕ	ΔZ
WAY	6	0.07	0.04	-0.04



CONTROL MONUMENT USED BY APTIM FOR 2020 TOWN OF DUCK TOPOGRAPHIC AND HYDROGRAPHIC SURVEY REPORT JUNE 2020				
DATUMS: NAD83(2011)) - NAVD1988 (US SURVEY FEET)			
Designation	CAFFEY			
Stamping	CAFFEY 1935			
Northing	915308.87			
Easting	2952084.11			
Horizontal Root Mean Square Error	0.09			
Elevation 1.99				
Vertical Root Mean Square Error	0.05			
Description	Station is about 350 feet W of Caffey Inlet Coast			
	Guard Station, on a small sand neck which extends			
	into the marsh on the E shore of Currituck Sound.			
	This neck is just S of an old can buoy lying in the			
	marsh and is just N of a small gut which the road			
crosses on a small bridge. The station is about 225				
feet W of a flagpole at the fence line W of the coast				
guard station, a point in line with the S fence, and				
	179 feet NW of the center of the bridge.			



NO IMAGE

Monument: CAFFEY Location Verification: CAFFEY

Mean of Inverse Shots – Published Versus APTIM Found				
Monument No. of Shots ΔN ΔE ΔZ				
CAFFEY	31	-0.05	-0.02	0.04



CONTROL MONUMENT USED BY APTIM FOR 2020 TOWN OF DUCK TOPOGRAPHIC AND HYDROGRAPHIC SURVEY REPORT JUNE 2020 DATUMS: NAD83(2011) - NAVD1988 (US SURVEY FEET)			
Designation X 254			
Stamping	X 254		
Northing	876428.61		
Easting	2968761.03		
Horizontal Root Mean Square Error	0.08		
Elevation 9.93			
Vertical Root Mean Square Error	0.02		
Description Proceed along NC 12 for 1.1 mi. N from the intersection of US 154 in Kitty Hawk to house number 92. The mark is in the NW corner of the property level with the centerline of NC 12 and flush with the ground. It is located 35.8 Ft. E of the centerline of NC 12, 54.0 Ft. S of the S edge of concrete drive to the house and 1 Ft. W of a witness post.			

Mean of Inverse Shots – Published Versus APTIM Found				
Monument	No. of Shots	ΔΝ	ΔΕ	ΔZ
X 254	4	-0.01	0.06	0.00



CONTROL MONUMENT USED BY APTIM FOR 2020 TOWN OF DUCK TOPOGRAPHIC AND HYDROGRAPHIC SURVEY REPORT JUNE 2020			
DATUMS: NAD83(2011)) - NAVD1988 (US SURVEY FEET)		
Designation	Y 254		
Stamping	Y 254		
Northing	880716.27		
Easting	2966184.93		
Horizontal Root Mean Square Error	0.10		
Elevation 12.15			
Vertical Root Mean Square Error 0.05			
Description	Proceed along NC 12 for 2.1 mi. N from the		
	intersection of US 154 in Kitty Hawk to house		
	number 160. Station is level with the centerline of		
	NC 12 and flush with the ground. Located 31.5 Ft.		
	E of the centerline of NC 12, 30 Ft. S-SW of the		
center of concrete drive to house, 8.4 Ft. S of a			
water meter, 1.2 SW of a witness sign, and 3.3 Ft.			
W-SW of a power pole with 2 guy wires and a			
	reference tag.		

Mean of Inverse Shots – Published Versus APTIM Found				
Monument	No. of Shots	ΔΝ	ΔΕ	ΔZ
Y 254	27	-0.02	-0.03	0.03



TOWN OF DUCK STATION INFORMATION HUNE 2020

JUNE 2020					
DATUMS: 1	DATUMS: NAD83(2011) / NAVD88 (US SURVEY FEET)				
STATION	NORTHING	EASTING	AZIMUTH		
D-01	918267.70	2951387.50	70.00		
D-02	917384.40	2951733.80	70.00		
D-03	916429.40	2952103.00	70.00		
D-04	915495.30	2952464.00	70.00		
D-05	914598.00	2952849.30	70.00		
D-06	913696.90	2953224.40	70.00		
D-07	912798.80	2953607.30	70.00		
D-08	911897.90	2953983.00	70.00		
D-09	910994.82	2954356.65	70.00		
D-10	910066.74	2954759.12	70.00		
D-11	909133.14	2955158.05	70.00		
D-12	908412.53	2955461.41	70.00		
D-13	907478.35	2955874.29	70.00		
D-14	906578.33	2956252.15	70.00		
D-15	905677.78	2956628.57	70.00		
D-16	904767.65	2956978.72	70.00		
D-17	903863.92	2957333.66	70.00		
D-18	902886.47	2957718.79	70.00		
D-19	902331.03	2957932.45	70.00		
D-20	901760.74	2958139.73	70.00		
D-21	900958.70	2958472.10	70.00		
D-22	900228.80	2958754.00	70.00		
D-23	899515.60	2958992.70	70.00		
D-24	898739.80	2959267.20	70.00		
D-25	897824.30	2959601.70	70.00		
D-26	896902.30	2959928.60	70.00		
D-27	895981.90	2960250.60	70.00		
D-28	895073.00	2960604.10	70.00		
D-29	894166.20	2960963.60	70.00		
D-30	893257.60	2961317.70	70.00		
D-31	892350.70	2961676.70	70.00		
D-32	891379.40	2962078.10	70.00		
D-33	890553.20	2962439.40	70.00		
D-34/-197+12	889616.10	2962839.60	70.00		