

DRILLING LOG		DIVISION: South Atlantic	INSTALLATION: Jacksonville District	SHEET 1 of 1
1. PROJECT		CAPTIVA ISLAND SAND STUDY		
2. LOCATION (Coordinates or Station)		X=562567.05 Y=832782.15		
3. DRILLING AGENCY: Alpine Ocean Seismic Survey Inc.		10. SIZE AND TYPE OF BIT 3 5/8"		
4. HOLE NO. (As shown on drawing title and file number)		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD		
5. NAME OF DRILLER MAURIZIO ROSSI		12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE		
6. DIRECTION OF HOLE VERTICAL		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0 Undisturbed: 0		
7. THICKNESS OF BURDEN 0.0 FT		14. TOTAL NO. OF CORE BOXES		
8. DEPTH DRILLED INTO ROCK N/A		15. ELEVATION GROUND WATER		
9. TOTAL DEPTH OF HOLE 18.0 FT		16. DATE HOLE Started 8/7/00 Completed 15:38		
		17. ELEVATION TOP OF HOLE -25.5 ft		
		18. TOTAL CORE RECOVERY FOR BORING 90%		
		19. SIGNATURE OF GEOLOGIST SK/ID		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-25.5	0					
-26.7	1		SAND, medium grained, little shell hash, shell fragments and whole shells, gray (5Y-5/1), (SP).		1	Sample #1, Depth = 1.0' Mean (mm): 0.49, Phi Sorting: 1.46 Silt: 1.44% (SW)
	2					
	3		medium grained, trace shell hash/shell fragments (increases to little between 4.3 and 4.8 feet), gray (5Y-6/1), (SP). 1" whole shell @ 4.8'.		2	Sample #2, Depth = 3.0' Mean (mm): 0.19, Phi Sorting: 1.23 Silt: 4.21% (SW)
	4					
	5					
-31.1	6					
	7		SAND, fine-grained, trace silt/clay, trace shell hash/shell fragments, gray (5Y-5/1), (SP-SM).		3	Sample #3, Depth = 6.5' Mean (mm): 0.18, Phi Sorting: 1.65 Silt: 19.25% (SM)
-33.3	8					
	9					
	10		CARBONATE CLASTS, ranges from fine sand sized to 3", gray (5Y-5/1) to light gray (5Y-7/1), (GP).			
-36.2	11					
	12					
	13					
	14		SILTY CLAY, calcareous, hard & compact, gray (5Y 5/1) to white (5Y-8/1), (ML-CL).			
-42.3	15					
	16					
	17					
-43.5	18		CARBONATE CLASTS, ranges from fine sand sized to 4", with silty sand, white (5Y-8/1), (GM).			
-44.7	19		No Recovery			
	20		End of Boring			
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			Note: This column contains laboratory data.
	22					
	23					
	24					

Gradation Analysis Report

Proj Name: Captiva Island
 Sample: CIVC-00-1#1
 Date: 1/1/2001
 By: ID



2841 N. W. Boca Raton Blvd. Boca Raton FL 33428

Elevation: -28.7 Feet Easting: 561845.57 State Plane 1983
 Reference: NGVD 29 Northing: 833427.22 FLA West Feet

USCS: SW Munsel Dry: 5Y-7/1 Munsel Wet: 5Y-6/1
 Comments: 0

Dry Wt. 65.08 Percent Silt: 1.44
 Wash Wt. 64.16

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.000	8.000	0.340	0.522	0.340	0.522
5	-2.000	4.000	1.250	1.921	1.590	2.443
7	-1.500	2.828	1.620	2.489	3.210	4.932
10	-1.000	2.000	1.600	2.459	4.810	7.391
14	-0.500	1.414	2.450	3.765	7.260	11.156
18	0.000	1.000	3.330	5.117	10.590	16.272
25	0.500	0.707	4.690	7.207	15.280	23.479
35	1.000	0.500	7.170	11.017	22.450	34.496
45	1.500	0.354	13.730	21.097	36.180	55.593
60	2.000	0.250	17.060	26.214	53.240	81.807
80	2.500	0.177	6.600	10.141	59.840	91.948
120	3.000	0.125	3.160	4.856	63.000	96.804
170	3.500	0.088	0.950	1.460	63.950	98.264
200	3.750	0.074	0.140	0.215	64.090	98.479
230	4.000	0.063	0.040	0.061	64.130	98.540
Pan	Pan	0.053	0.940	1.444	65.070	99.985

PHI 5 PHI 16 PHI 25 PHI 50 PHI 75 PHI 84 PHI 95
 -1.49 -0.03 0.57 1.37 1.87 2.11 2.81

Median phi: 1.37 Median mm: 0.39

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	0.95	0.52	1.18	-0.60	1.35
Moment	1.03	0.49	1.46	-0.52	1.95

Gradation Analysis Report

Proj Name: Captiva Island
 Sample: CIVC-00-1#2
 Date: 1/1/2001
 By: ID



2841 N. W. Boca Raton Blvd. Boca Raton FL 33428

Elevation: -30.7 Feet Easting: 561845.57 State Plane 1983
 Reference: NGVD 29 Northing: 833427.22 FLA West Feet

USCS: SW Munsel Dry: 5Y-7/1 Munsel Wet: 5Y-6/1
 Comments: 0

Dry Wt. 75.51 Percent Silt: 4.21
 Wash Wt. 72.35

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.160	0.212	0.160	0.212
7	-1.500	2.828	0.540	0.715	0.700	0.927
10	-1.000	2.000	0.490	0.649	1.190	1.576
14	-0.500	1.414	0.970	1.285	2.160	2.861
18	0.000	1.000	1.170	1.549	3.330	4.410
25	0.500	0.707	1.550	2.053	4.880	6.463
35	1.000	0.500	1.910	2.529	6.790	8.992
45	1.500	0.354	3.490	4.622	10.280	13.614
60	2.000	0.250	8.810	11.667	19.090	25.281
80	2.500	0.177	12.310	16.302	31.400	41.584
120	3.000	0.125	20.960	27.758	52.360	69.342
170	3.500	0.088	17.300	22.911	69.660	92.253
200	3.750	0.074	2.320	3.072	71.980	95.325
230	4.000	0.063	0.330	0.437	72.310	95.762
Pan	Pan	0.053	3.180	4.211	75.490	99.974

PHI 5 PHI 16 PHI 25 PHI 50 PHI 75 PHI 84 PHI 95
 0.14 1.60 1.99 2.65 3.12 3.32 3.72

Median phi: 2.65 Median mm: 0.16

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	2.29	0.20	0.97	-0.63	1.29
Moment	2.36	0.19	1.23	-0.68	2.13

Gradation Analysis Report

Proj Name: Captiva Island
 Sample: CIVC-00-1#3
 Date: 1/1/2001
 By: ID



2841 N. W. Boca Raton Blvd. Boca Raton FL 33428

Elevation: -33.7 Feet Easting: 561845.57 State Plane 1983
 Reference: NGVD 29 Northing: 833427.22 FLA West Feet

USCS: SM Munsel Dry: 5Y-7/1 Munsel Wet: 5Y-6/1
 Comments: 0

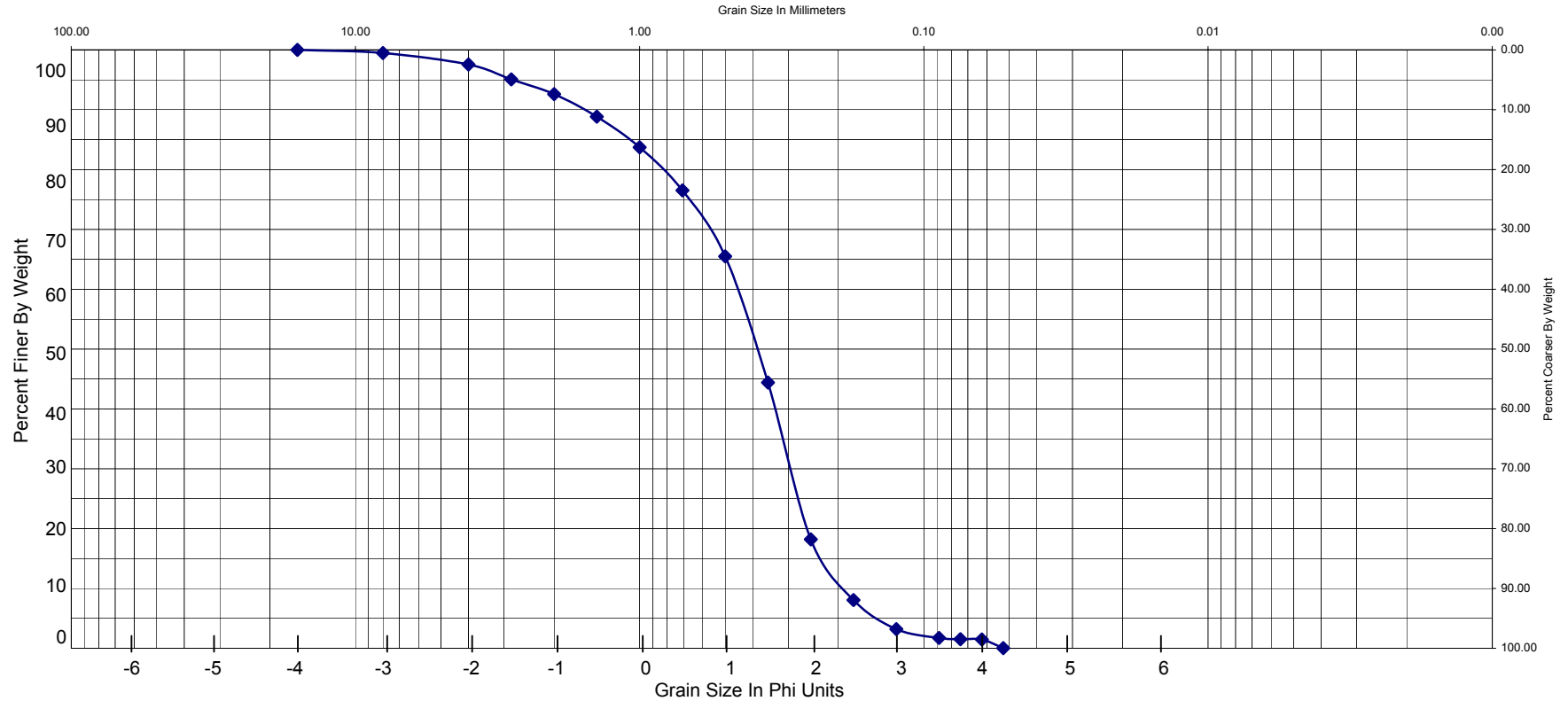
Dry Wt. 66.66 Percent Silt: 19.25
 Wash Wt. 54.12

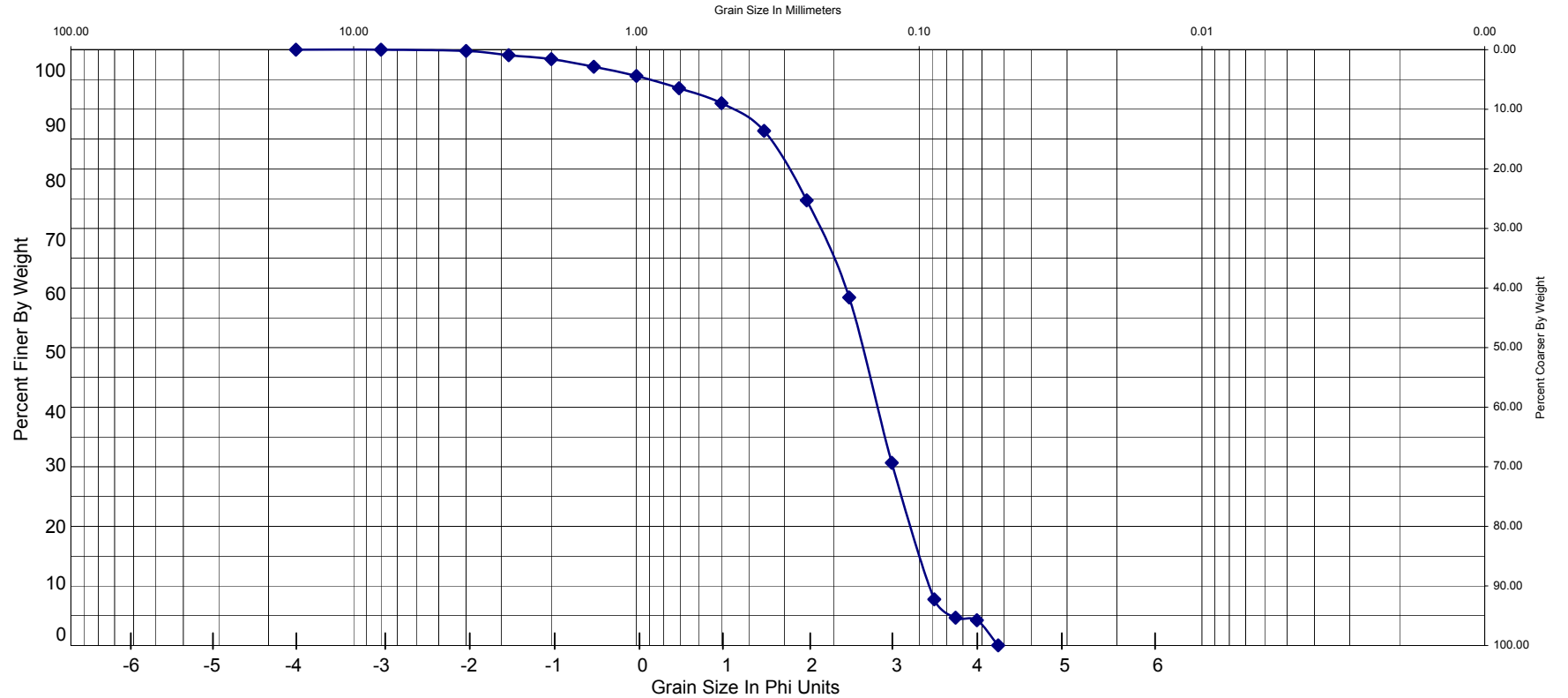
Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.340	0.510	0.340	0.510
7	-1.500	2.828	0.390	0.585	0.730	1.095
10	-1.000	2.000	0.690	1.035	1.420	2.130
14	-0.500	1.414	1.280	1.920	2.700	4.050
18	0.000	1.000	1.530	2.295	4.230	6.346
25	0.500	0.707	2.370	3.555	6.600	9.901
35	1.000	0.500	2.810	4.215	9.410	14.116
45	1.500	0.354	3.450	5.176	12.860	19.292
60	2.000	0.250	4.890	7.336	17.750	26.628
80	2.500	0.177	4.120	6.181	21.870	32.808
120	3.000	0.125	14.240	21.362	36.110	54.170
170	3.500	0.088	13.920	20.882	50.030	75.053
200	3.750	0.074	2.990	4.485	53.020	79.538
230	4.000	0.063	0.790	1.185	53.810	80.723
Pan	Pan	0.053	12.830	19.247	66.640	99.970

PHI 5 PHI 16 PHI 25 PHI 50 PHI 75 PHI 84 PHI 95
 -0.29 1.18 1.89 2.90 3.50 4.04 4.19

Median phi: 2.90 Median mm: 0.13

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	2.40	0.19	1.39	-0.59	1.14
Moment	2.49	0.18	1.65	-0.53	1.76



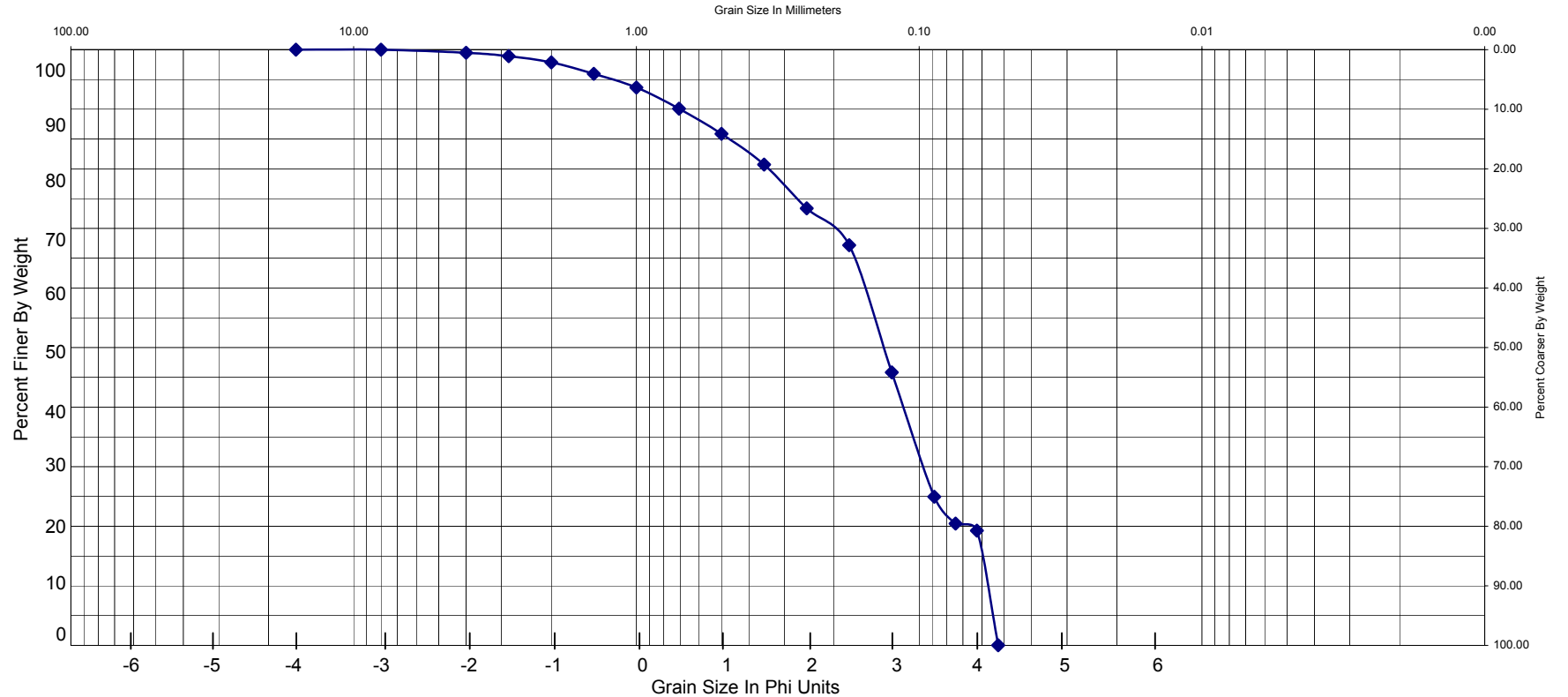


Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
◆ CIVC-00-1#2	3.0		SW	4.21	0.16	0.19	-0.68	2.13	1.23	NA	NA	NA	Project Name: Captiva Island
													Sample Type: Vibracores
													Collection Date: 1/1/2001
													Analysis By: ID
													Easting (X): 561845.57 Feet
													Northing (Y): 833427.22 Feet
													Sample Elevation:-30.7 NGVD 29
													Coord. System: State Plane 1983 FLA West



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BOCA RATON, FLORIDA 33431



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
◆ CIVC-00-1#3	6.0		SM	19.25	0.13	0.18	-0.53	1.76	1.65	NA	NA	NA	Project Name: Captiva Island
													Sample Type: Vibracores
													Collection Date: 1/1/2001
													Analysis By: ID
													Easting (X): 561845.57 Feet
													Northing (Y): 833427.22 Feet
													Sample Elevation:-33.7 NGVD 29
													Coord. System: State Plane 1983 FLA West



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