

LINE VIRGINIA KEY BEACH PARK MIAMI-DADE COUNTY					ORDER 380		COMPUTATION OF LEVELS (TM 5-237)							
PROJECT BEACH PROFILES			ORGANIZATION A.R. TOUSSAINT & ASSOCIATES				CLOSURE (METERS) (FEET)							
LOCATION MIAMI-DADE COUNTY			LENGTH OF LINE (KMS.) (MILES) 1.8 MILES				CORRECTION PER (KM.) (MILE)							
SECTION	LENGTH mi. km.	DIST. FROM B.M. mi. km.	F B	DIFFERENCE		F-B DIFF.	MEAN DIFFERENCE	B.M.	OBS. ELEV.		CORR.	NAVD-88 ADJ. ELEV.		REMARKS
				feet	meters				feet	meters		feet	meters	
NGS BM 3214B	165'		F	+5.212								4.272		DATA SH
NGS BM MI-GR			B	5.217	0.005	+5.215	MI-GR	9.487	+0.004			9.491		FB 546-26
NGS BM MI-GR	60'		F	-2.566						0.056		6.966		FB 546-27
D.E.P. 87-91-0A-31 AZMK			B	2.583	0.017	-2.575	PA-31 AZMK	6.912	-0.039			6.873		D.E.P.
												EXCESSIVE CLOSURE.		
D.E.P. 87-91-DA-31, AZ MK 60'			F	+2.566								6.873		D.E.P.
NGS BM MI-GR			B	2.583	0.017	+2.575	MI-GR	9.448						FB 546-27
NGS BM MI-GR	108'		F	-6.011										
DEP R-88		108'	B	6.010	0.001	-6.011	R-88	(3.437) 3.527	-0-			9.538 3.527		DADE COUNTY PUBLIC WORKS FB 546-28
DEP R-88	1230'		F	+0.159										
DEP T-87		1338'	B	0.164	0.005	+0.162	T-87	(3.599) 3.689	+0.005			3.694		FB 546-29
DEP T-87	1120'		F	-1.926										
DEP T-86		2.458'	B	1.916	0.010	-1.921	T-86	(1.678) 1.768	+0.009			1.777		FB 546-30
DEP T-86	910'		F	+0.916										
DEP T-85		3.448'	B	0.910	0.006	+0.913	R-85	(2.591) 2.681	+0.013			2.694		FB 546-31

COMPUTED BY AT  
SHEET 4 OF 4

DATE  
06-13-09

CHECKED BY

DATE

DA FORM 1 FEB 57 1942

LINE VIRGINIA KEY BEACH PARK  
MIAMI-DADE COUNTY

ORDER  
3rd

COMPUTATION OF LEVELS  
(TM 5-237)

PROJECT  
BEACH PROFILES

ORGANIZATION  
A.P. TOUSSAINT & ASSOCIATES

CLOSURE (METERS) (FEET)

LOCATION  
MIAMI-DADE COUNTY

LENGTH OF LINE (KMS.) (MILES)  
1.8 MILES

CORRECTION PER (KM.) (MILE)

SECTION	LENGTH mi. km.	DIST. FROM B.M. _____ mi. km.	F B	DIFFERENCE		F-B DIFF.	MEAN DIFFERENCE	B. M.	OBS. ELEV.		CORR.	NAVD-88 ADJ. ELEV.		REMARKS
				feet	meters				feet	meters		feet	meters	
DEP R-85	1040'		F	+0.693										
DEP R-84		4488'	B	0.713	0.020	+0.763	R-84	( <del>3.274</del> ) 3.384	3.384	+0.017		3.401		FB 546-32
DEP R-84	990'		F	+2.710										
DEP R-83		5478'	B	2.728	0.018	+2.719	R-83	(6.013) 6.105	6.105	+0.021		6.124		FB 546-33
DEP R-83	1270'		F	-0.739										
DEP R-82		6748'	B	0.731	0.008	-0.735	R-82	( <del>5.278</del> ) 5.368	5.368	+0.025		5.393		FB 546-34
DEP R-82	650'		F	-0.549										
DEP R-81		7398'	B	0.531	0.018	-0.540	R-81	( <del>4.738</del> ) 4.828	4.828	+0.028		4.856		FB 546-35
DEP R-81	940'		F	+0.120										
DEP R-80		8338'	B	0.149	0.019	+0.140	R-80	( <del>4.878</del> ) 4.968	4.968	+0.031		4.999		FB 546-36
R-81	COMPUTER ERROR/SEE FB 546-3637													
DEP R-80	390'		F	-3.190										
DEP 87-91-DA28		8728	B	3.200	0.010	-3.195		(+1.683) 1.623	1.623	+0.019		1.614		CORRECT 5/2/09 CLOSURE GOOD FB 546-37
DEP 87-91-DA28	880'		F	3.845										
DCEM-KB-21		9608'	B	3.847	0.002	+3.846		( <del>5.629</del> ) 5.479	5.479	+0.026		5.655		CLOSURE POOR D.C. BM KB-21

RE RUN SH 3 & 4 AT

COMPUTED BY AT  
9608/5280 = 1.82 MI

DATE  
07-08-09

CHECKED BY  
EC = 0.035 T<sub>1.82</sub> = 0.0147  
CORR = +0.026/9608 = +0.0000375  
CLOSURE GOOD

DATE  
SEE RE RUN  
FB 546-(51-62)  
COMP. SH 3 & 4

LINE VIRGINIA KEY BEACH PARK BENCH MARK LEVEL RE RUN MIAMI-DADE COUNTY							ORDER 360	COMPUTATION OF LEVELS (TM 5-237)				
PROJECT BEACH PROFILES				ORGANIZATION A.R. TOUSSAINT & ASSOCIATES			CLOSURE (METERS) (FEET)					
LOCATION MIAMI-DADE COUNTY				LENGTH OF LINE (KMS.) (MILES)			CORRECTION PER (KM.) (MILE)					
SECTION	LENGTH mi. km.	DIST. FROM B. M. — mi. km.	F B	DIFFERENCE feet meters	F-B DIFF.	MEAN DIFFERENCE	B. M.	OBS. ELEV. feet meters	CORR.	NAVD-88 ADJ. ELEV. feet meters	REMARKS	
DC, BM, KB-21	880'		F	-3.897						5.655'	MIAMI-DADE PUBLIC WORKS	
DEP 87-91-DA-28		880'	B	3.905	0.008	-3.901	DA-28	1.754	-0.002	1.752'	FB 546-52	
DEP 87-91-DA-28	390		F	+3.350								
DEP R-80		1270'	B	3.340	0.010	+3.345	DEP R-80	5.099	-0.003	5.096'	FB 546-51	
DEP R-80	940'		F	-0.143								
DEP R-81		2210'	B	0.137	0.006	-0.140	DEP R-81	4.959	-0.005	4.954'	FB 546-53	
DEP R-81	650'		F	+0.516								
DEP R-82		2860'	B	0.526	0.010	+0.521	DEP R-82	5.480	-0.006	5.474'	FB 546-54	
DEP R-82	1270'		F	+0.716								
DEP R-83		4130'	B	0.707	0.009	+0.712	DEP R-83	6.192	-0.009	6.183'	FB 546-55	
DEP R-83	990'		F	-2.762								
DEP R-84		5120'	B	2.763	0.001	-2.763	DEP R-84	3.429	-0.011	3.418'	FB 546-56	
DEP R-84	2630'		F	-1.587								
DEP R-86		7150'	B	1.607	0.020	-1.597	DEP R-86	1.832	-0.015	1.817'	FB 546-57	

COMPUTED BY AT

SHEET 3 OF 4

DATE

5/21/09

CHECKED BY

DATE

DA FORM 1 FEB 57 1942

LINE VIRGINIA KEY BEACH PARK BENCH MARK LEVEL RECON ORDER 3rd  
 MIAMI-DADE COUNTY

**COMPUTATION OF LEVELS**  
 (TM 5-237)

PROJECT BEACH PROFILES ORGANIZATION A.R. TOUSSAINT & ASSOCIATES  
 LOCATION MIAMI-DADE COUNTY LENGTH OF LINE (KMS.) (MILES) CORRECTION PER (KM.) (MILE)

SECTION	LENGTH mi. km.	DIST. FROM B. M. _____ mi. _____ km.	F B	DIFFERENCE		F-B DIFF.	MEAN DIFFERENCE	B. M.	OBS. ELEV.		CORR.	ADJ. ELEV.		REMARKS
				feet	meters				feet	meters		feet	meters	
DEP R-86	1120'		F	+1.893										
DEP R-87		2270'	B	1.900	0.007	+1.897		DEP R-87	3.729	-0.017	3.712'		FB546-59	
DEP R-87	1230'		F	-0.186										
DEP R-88		9566'	B	0.193	0.013	-0.187		DEP R-88	3.543	-0.020	3.523'		FB546-60	
DEP R-88	108'		F	+6.010									FB546-62	
NGS BM MI-6-R		9608'	B	6.020	0.010	+6.015		MI-6-R	9.558	-0.020	9.538'		MI-6-R	
		9608/5280 =		1.82 MILES					EC = 0.035 $\sqrt{1.82} = 0.047$		CLOSURE GOOD ✓			
									Corr = 0.020/9608 = 0.00000208					

COMPUTED BY AT DATE CHECKED BY DATE  
 SHEET 4 of 4