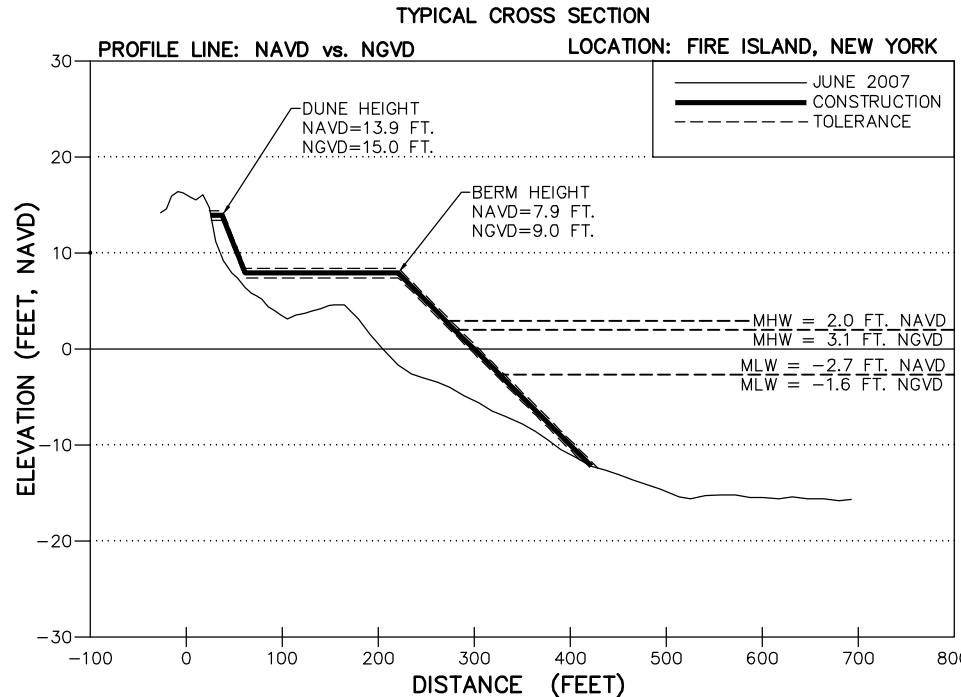


## **Appendix H**

**Site Plans for Alternative 2.5, Beach Nourishment with Modified Conditions, Combination Template, No Tapers on FINS Property**

# WESTERN FIRE ISLAND

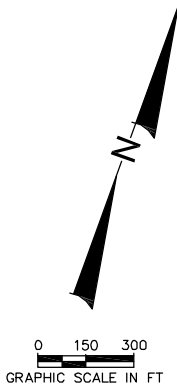


NOTE:  
ALL TOPOGRAPHIC SURVEYS AND PROFILES ARE  
REFERENCED TO THE NORTH AMERICAN VERTICAL  
DATUM 1988, WHICH RELATES TO NGVD AS SHOWN  
ABOVE.

NAVD 0.0 FT.

1.1 FT.

NGVD 0.0 FT.



NOTES:

1. DATE OF AERIAL PHOTOGRAPH: 12/18/2007.
2. AERIAL FLOWN BY GEOMAPS INTERNATIONAL AERIAL PHOTOGRAMMETRY.

**COASTAL PLANNING & ENGINEERING OF NY PC**  
24281 N.W. BOCA RATON BOULEVARD  
BOCA RATON, FLORIDA 33431  
PH. (561) 391-8102  
FAX (561) 391-9116  
C.O.A. NY #4582  
[www.CoastalPlanning.net](http://www.CoastalPlanning.net)



1	5/29/08	RESPONSE TO USACE RAI	Checked by: AMB	Designed by: SK	Reviewed by: SK	Drawn by: JRC	Date: 2/22/08	Submitted by: SK	Comm. No.: 73000.32	Plot Scale: AS NOTED	Description
---	---------	-----------------------	--------------------	--------------------	--------------------	------------------	------------------	---------------------	------------------------	-------------------------	-------------

Reference Files:  
30032\_BORDER.DWG

WESTERN FIRE ISLAND SEGMENT  
FIRE ISLAND, NEW YORK  
2008 BEACH RENOURISHMENT PROJECT

DRAWING NO.

AP

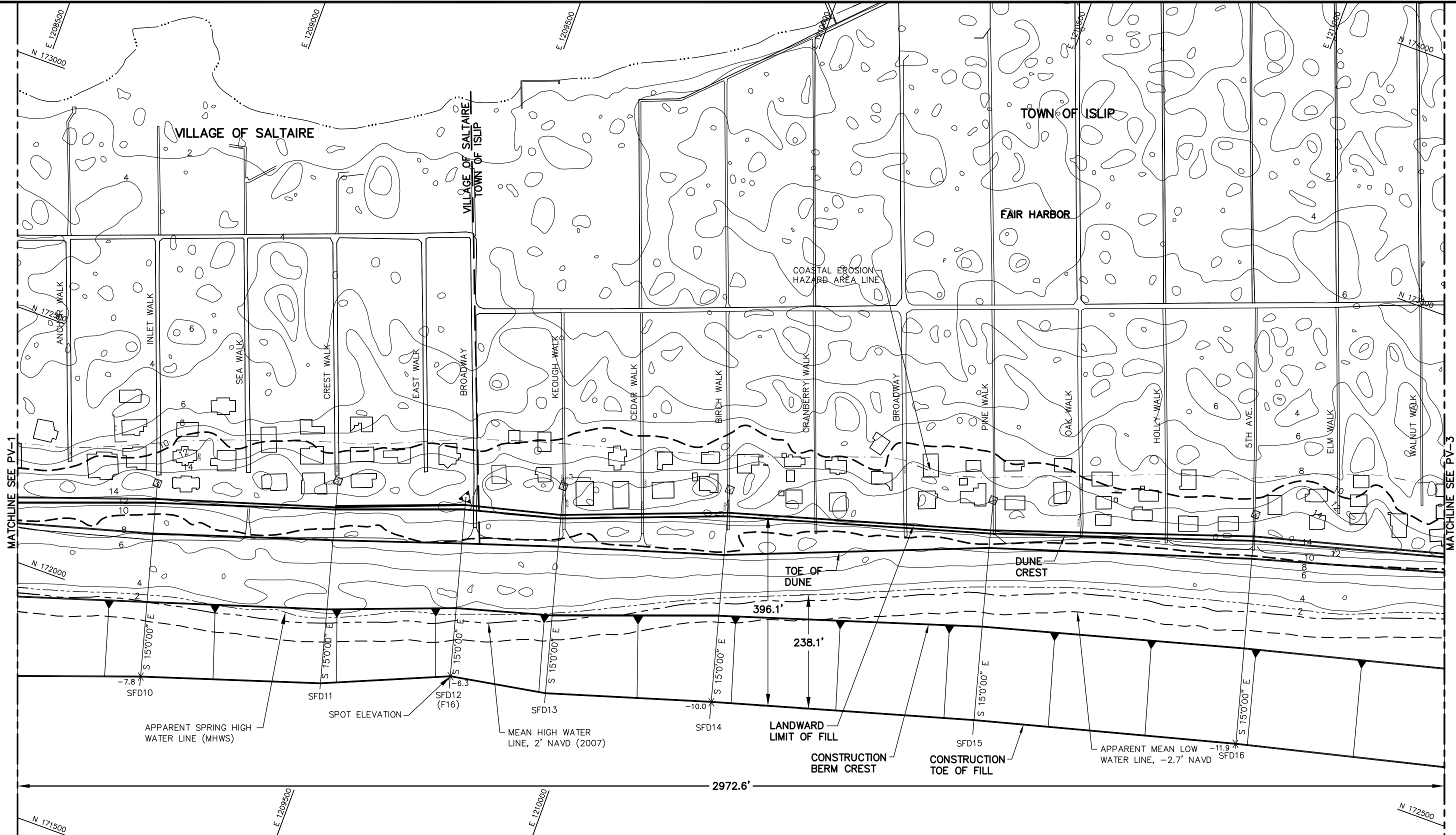
SHEET 2 OF 16

THOMAS J CAMPBELL P.E. NO. 56457

DATE \_\_\_\_\_



\\New York\Pres\N\2008\2\CONSTRUCTION\WESTERN FIRE ISLAND\2008\WP\_P\WPing - Jun 27, 2008 @ 3:57pm - deleted



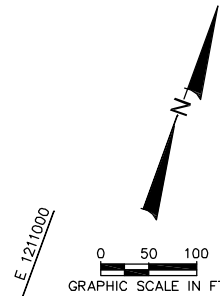
**NOTES:**

1. COORDINATES ARE BASED ON NEW YORK LONG ISLAND LAMBERT STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).
2. TOPOGRAPHIC CONTOURS SHOWN ARE IN FEET NAVD88 FROM A LIDAR SURVEY FLOWN APRIL 29, 2007 BY THE USGS EAARL SYSTEM.
3. THE PROJECT WILL DREDGE APPROXIMATELY 1.91 MILLION± CUBIC YARDS FROM AREA 2-WEST FOR THE CENTRAL AND WESTERN FIRE ISLAND SEGMENT BEACHES. A CUTTER HEAD OR HOPPER DREDGE WILL BE USED TO TAKE THE SAND FROM THE OFFSHORE BORROW AREA AND PUMP IT TO THE BEACH USING A COMBINATION OF SUBMERGED AND BEACH PIPELINES. THE BEACH/DUNE WILL BE SHAPED AND GRADED USING BULLDOZERS, FRONT END LOADERS, AND SIMILAR HEAVY CONSTRUCTION EQUIPMENT. THE FILL MATERIAL IS 96% SAND AND 4% SILT.
4. ALONG SHORE CURRENTS ARE WAVE DOMINATED IN AN EAST TO WEST DIRECTION.
5. THE BEACH VOLUME FOR WESTERN FIRE ISLAND IS APPROXIMATELY 500,000 C.Y., WITH 251,200 C.Y. SEAWARD OF THE SPRING TIDE LINE.

**LEGEND:**

- ☒ COMMENCEMENT POINT  
RNG 00
- ▲ USACE SURVEY MONUMENTS
- CONTOURS
- 10' CONTOUR
- - - - MEAN HIGH WATER LINE
- - - - SPRING HIGH WATER LINE
- 4.7X SPOT ELEVATION

ATLANTIC  
OCEAN



THOMAS J CAMPBELL P.E. NO. 56457

DATE

WESTERN FIRE ISLAND SEGMENT  
FIRE ISLAND, NEW YORK  
2008 BEACH RENOURISHMENT PROJECT

DRAWING NO.

**PV-2**

SHEET 4 OF 16



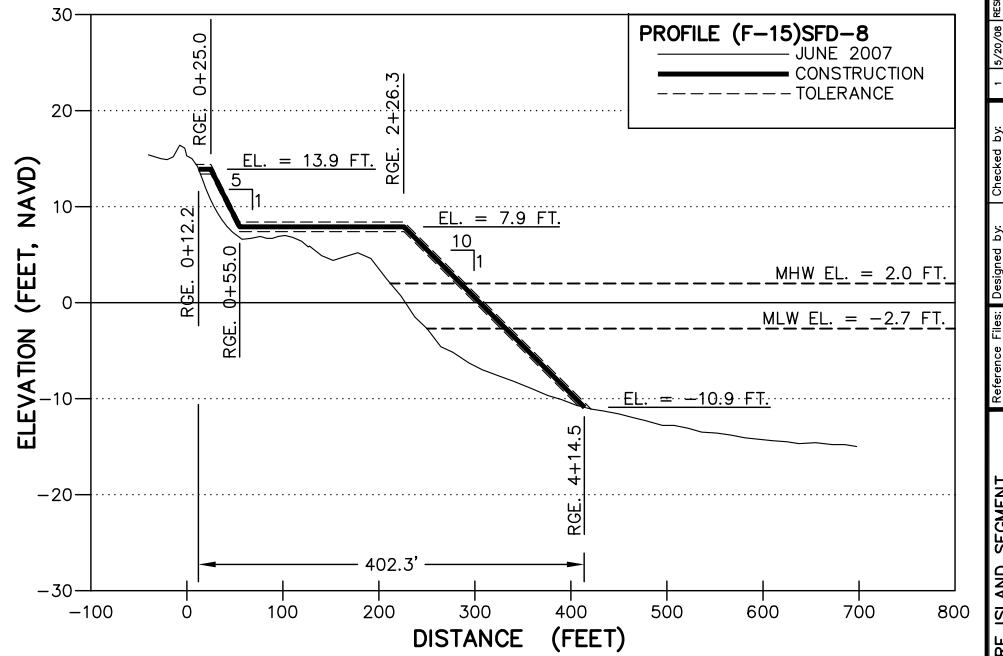
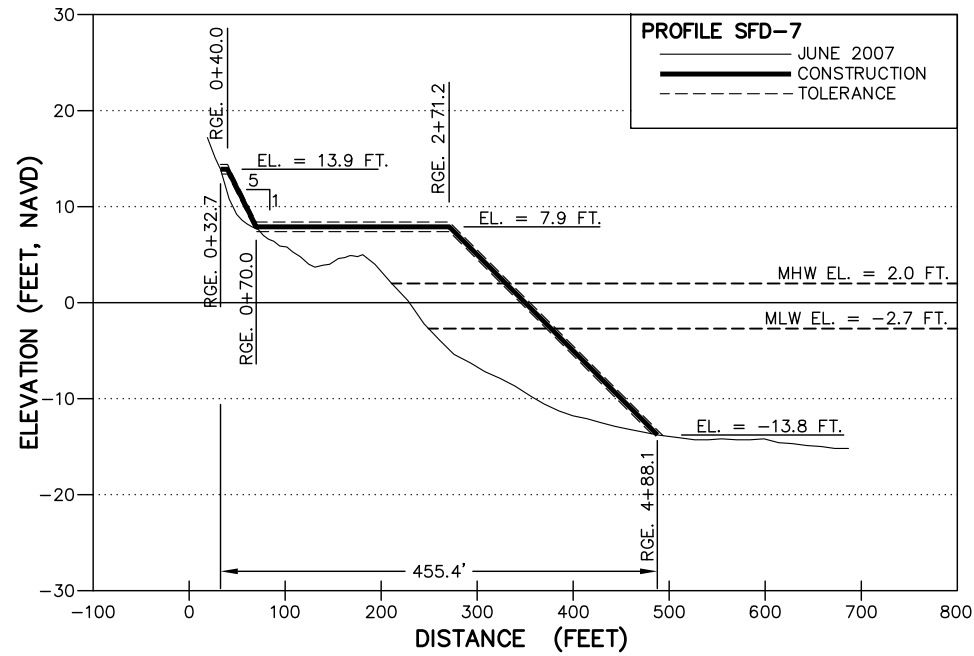
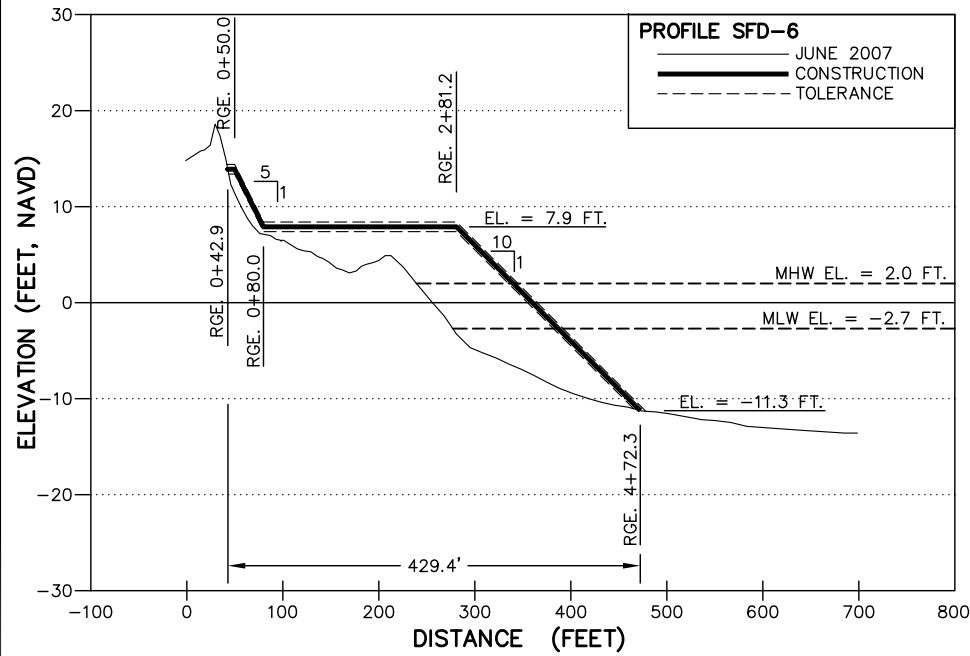
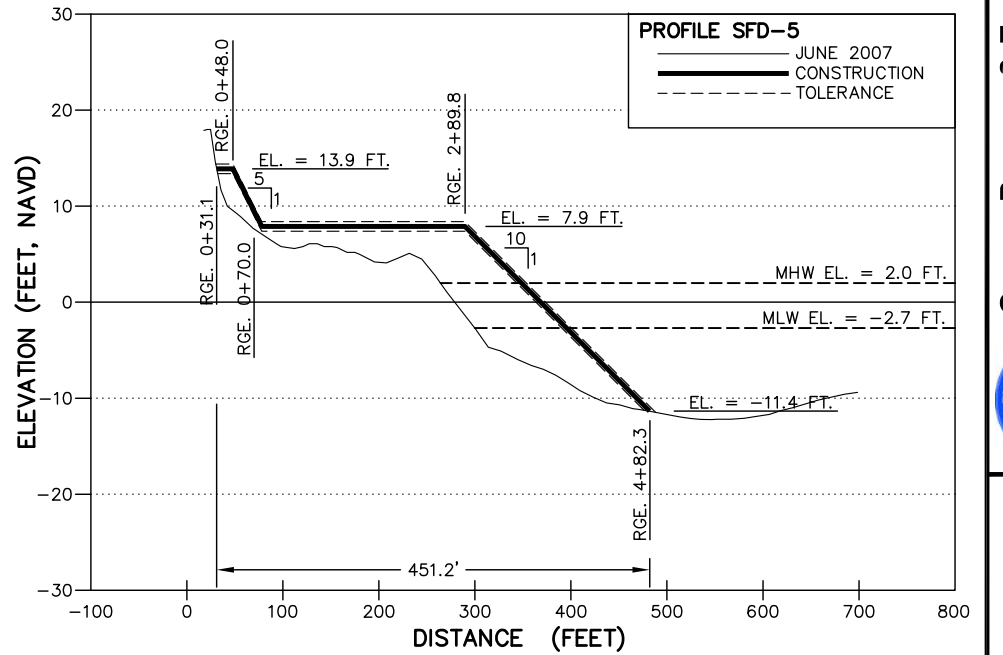
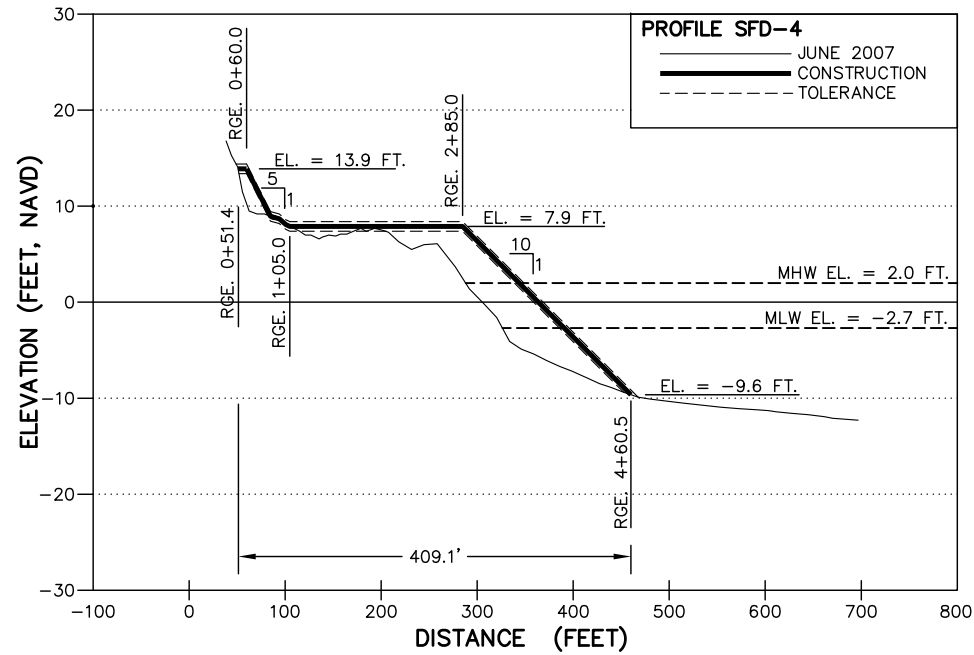
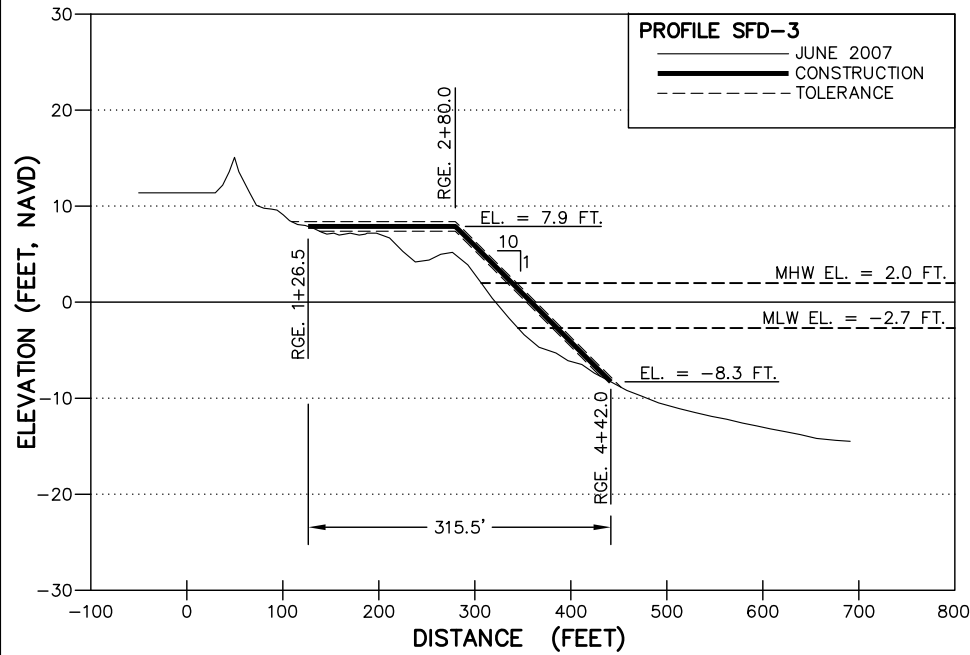
**Coastal Planning & Engineering of NY PC**  
2481 N.W. BOCA RATON BOULEVARD  
BOCA RATON, FLORIDA 33431  
PH. (561) 391-8102  
FAX (561) 391-9116  
www.CoastalPlanning.net  
C.O.A. NY #4582

Reference Files:	Designed by:	Checked by:	1. 5/20/08 RESPONSE TO USACE RAI
750052_00000000	SK	AMB	2. 6/25/08 FINE EA
	Drawn by:	Reviewed by:	
	JRC	SK	
	Date:	Submitted by:	
	2/22/08	SK	
	Print Scale:	Comm. No:	
	AS NOTED	7300.32	
		No.	Date
			Description

PLAN VIEW

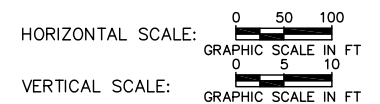


H:\New York\Present\2003\CONSTRUCTION\WESTERN FIRE ISLAND\2003\WP\_Profile.dwg - Jun 27, 2008 @ 4:47pm - edwin



**NOTES:**

1. ELEVATIONS ARE IN FEET BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD,88).
2. TOLERANCE:  $\pm 0.5$  FT.



THOMAS J CAMPBELL P.E. NO. 56457

DATE

WESTERN FIRE ISLAND SEGMENT  
FIRE ISLAND, NEW YORK  
2008 BEACH RENOURISHMENT PROJECT  
WESTERN FIRE ISLAND  
FILL CROSS SECTIONS

DRAWING NO.

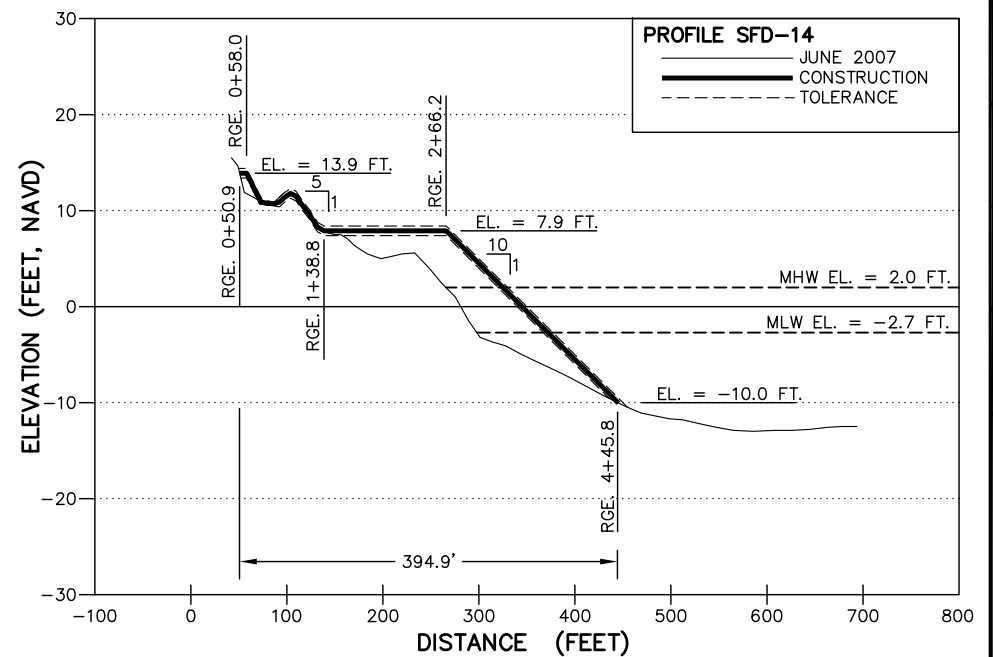
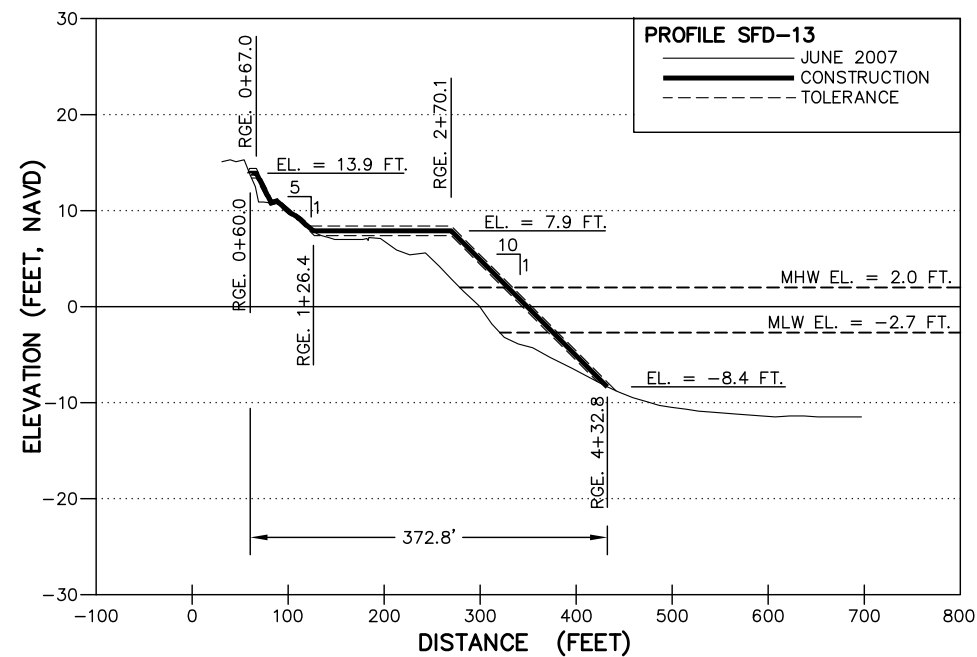
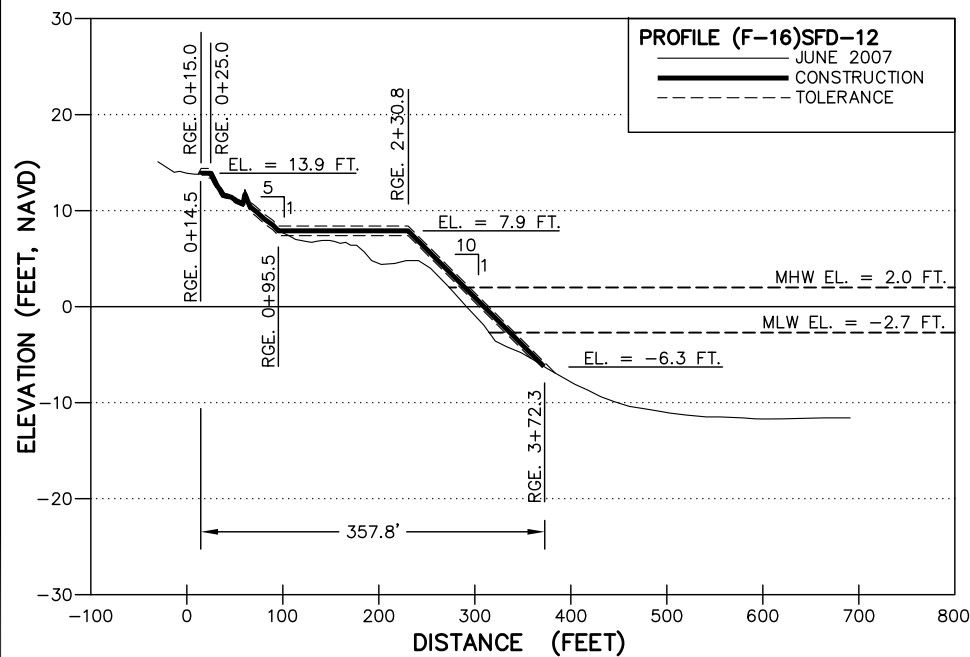
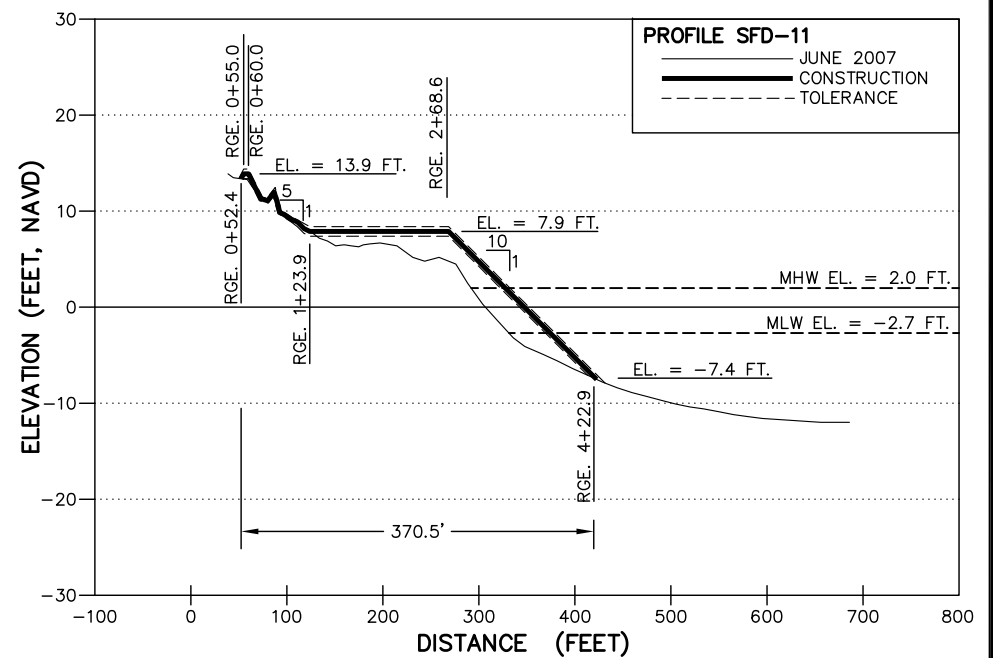
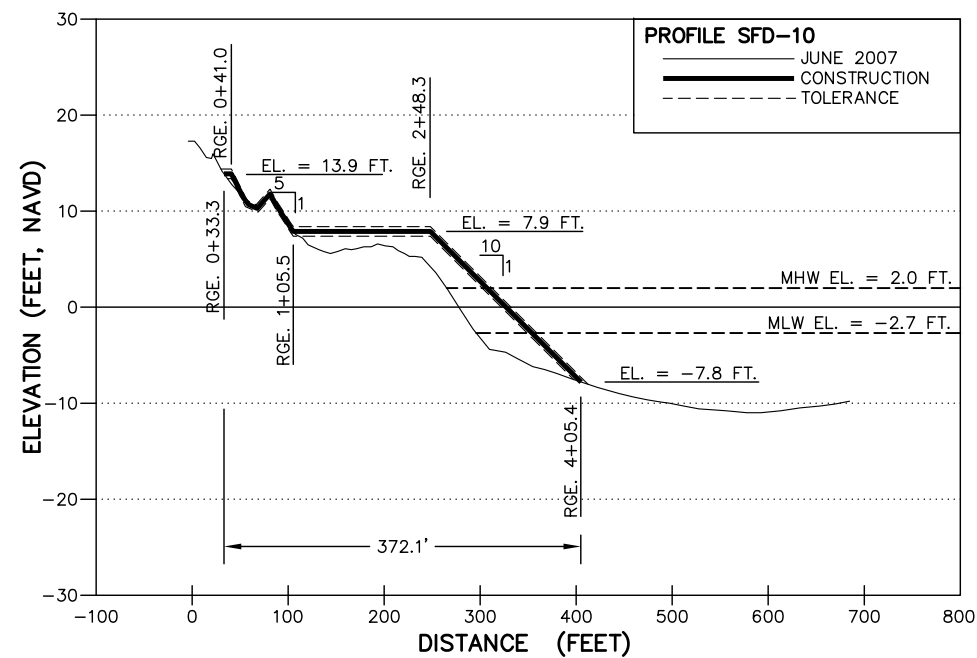
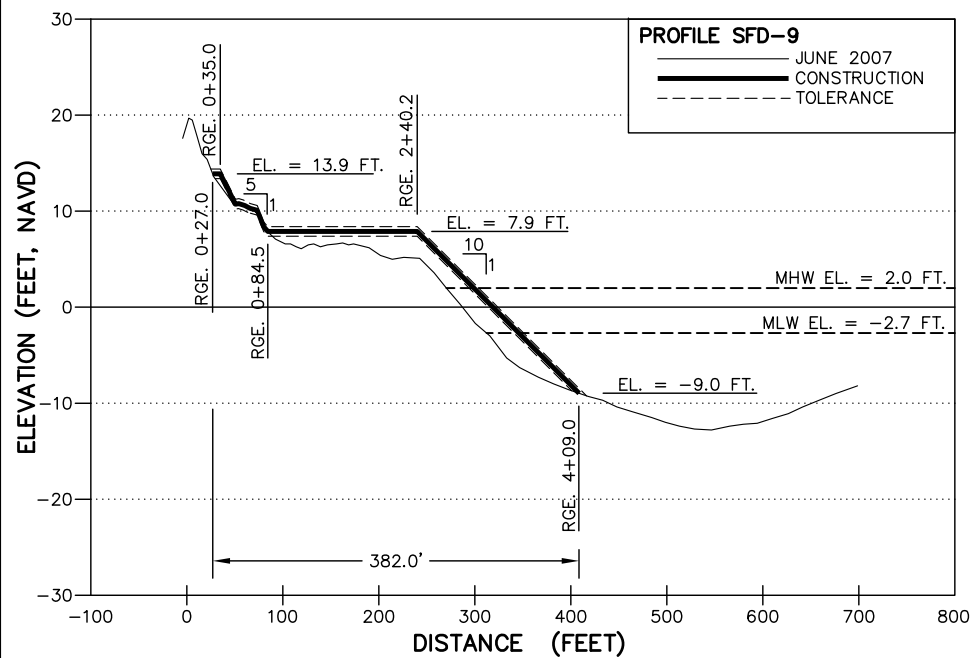
PR-1

SHEET 6 OF 16

**COASTAL PLANNING & ENGINEERING OF NY PC**  
2481 N.W. BOCA RATON BOULEVARD  
BOCA RATON, FLORIDA 33431  
PH. (561) 391-8102  
FAX (561) 391-9116  
C.O.A. NY #4582





Reference Files:	Designed by:	Checked by:	1	2	RESPONSE TO USACE RAI
750032_00000000	SK	AMB	15/20/08	16/25/08	FINIS EA
	Drawn by:	Reviewed by:			
	TM	SK			
	Date:	Submitted by:			
	2/22/08	SK			
	Plot Scale:	Comm. No:			
	AS NOTED	7300.32			
		No.			
		Date			
		Description			



**NOTES:**

1. ELEVATIONS ARE IN FEET BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD,88).
2. TOLERANCE:  $\pm 0.5$  FT.

HORIZONTAL SCALE:  GRAPHIC SCALE IN FT

VERTICAL SCALE:  GRAPHIC SCALE IN FT

THOMAS J CAMPBELL P.E. NO. 56457

DATE \_\_\_\_\_

**COASTAL PLANNING & ENGINEERING OF NY PC**  
2481 N.W. BOCA RATON BOULEVARD  
BOCA RATON, FLORIDA 33431  
PH. (561) 391-8102  
FAX (561) 391-9116  
C.O.A. NY #4582  
[www.CoastalPlanning.net](http://www.CoastalPlanning.net)



DRAWING NO.		PR-2	
SHEET 7 OF 16			
WESTERN FIRE ISLAND NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION		730032_BORDER.DWG	
2008 BEACH RENOURISHMENT PROJECT		SK, AMB	
WESTERN FIRE ISLAND BEACH PROFILES		2 6/22/08 INS EA	
		Drawn by: TM	
		Reviewed by: SK	
		Submitted by: SK	
		Date: 2/22/08	
		Comm. No.: 730032	
		Plot Scale: AS NOTED	
		No.	Date
		Description	

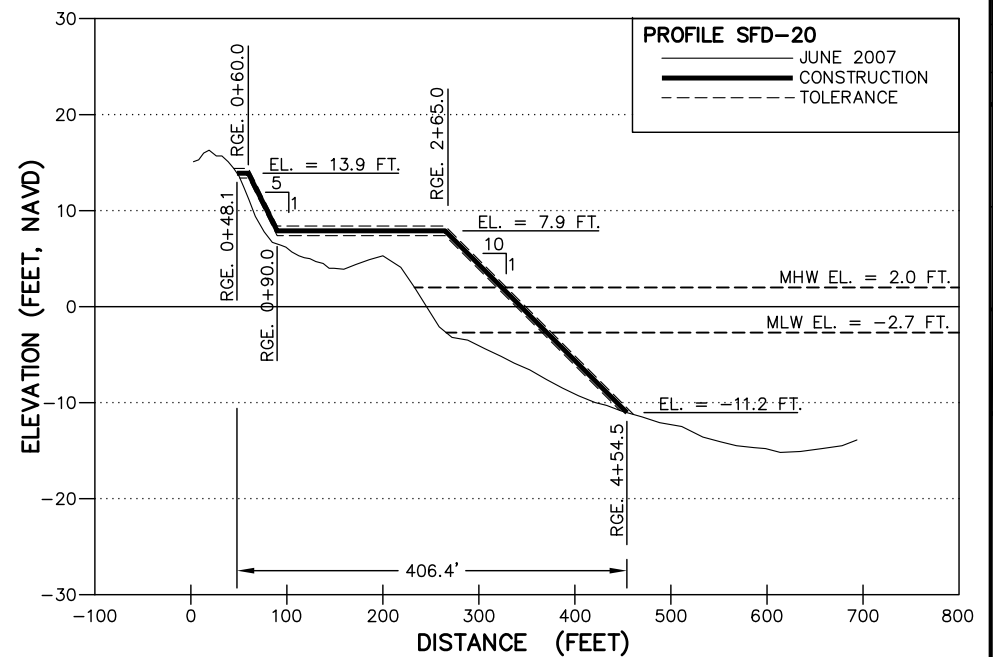
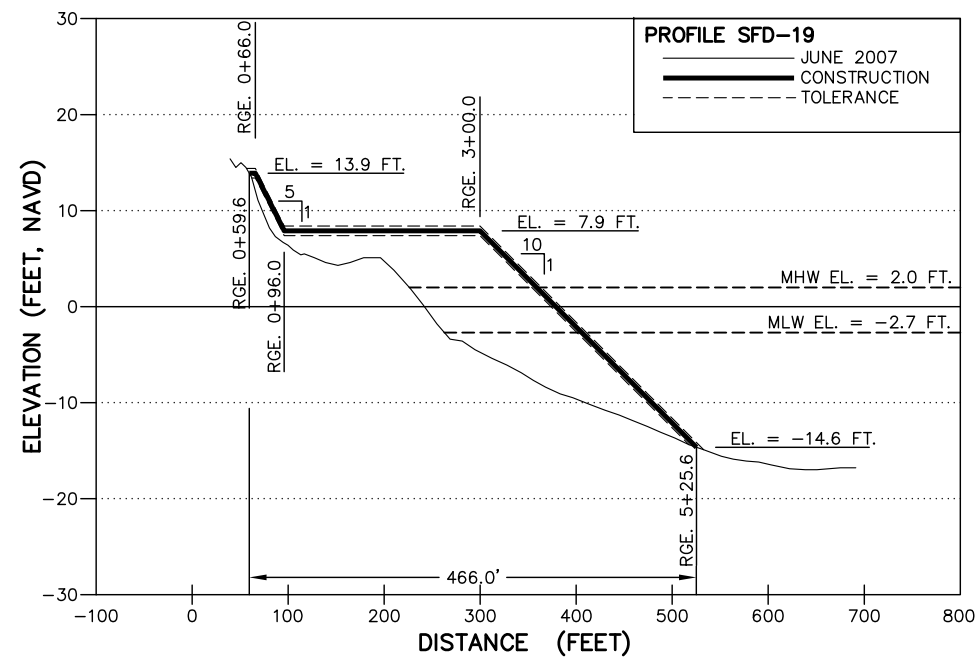
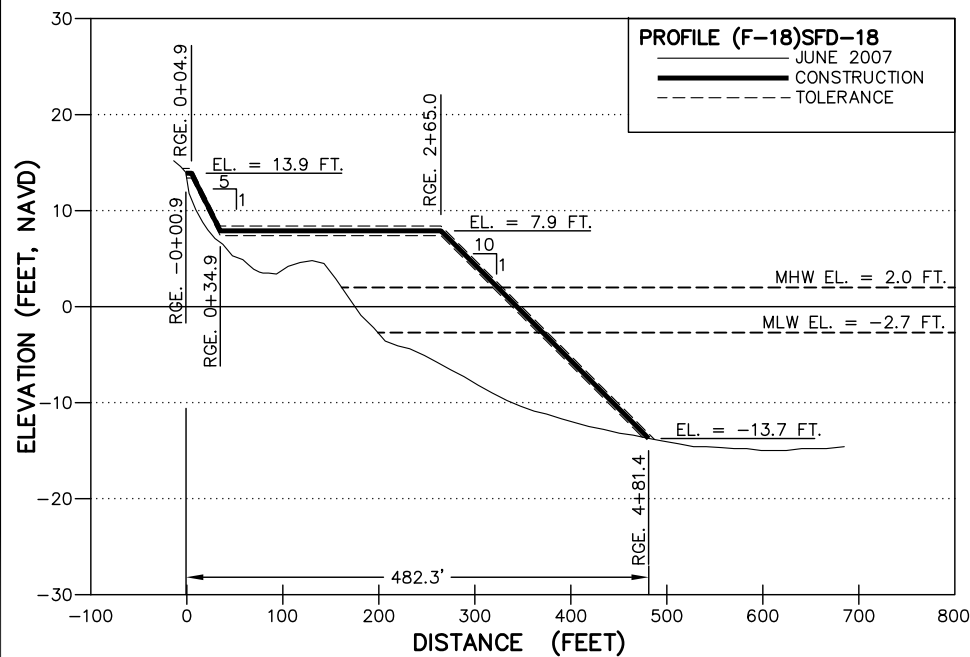
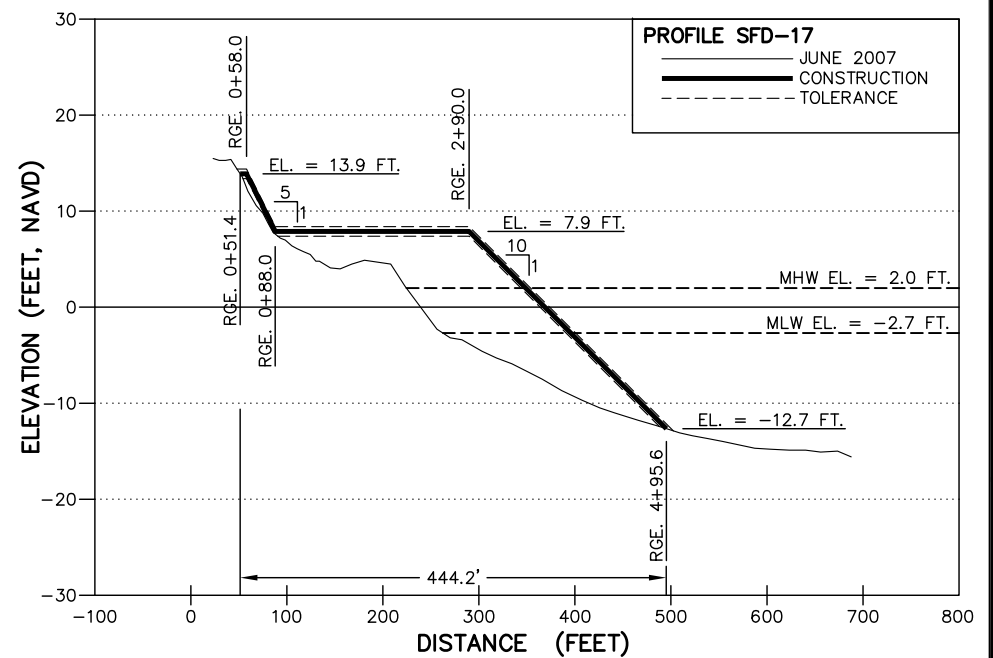
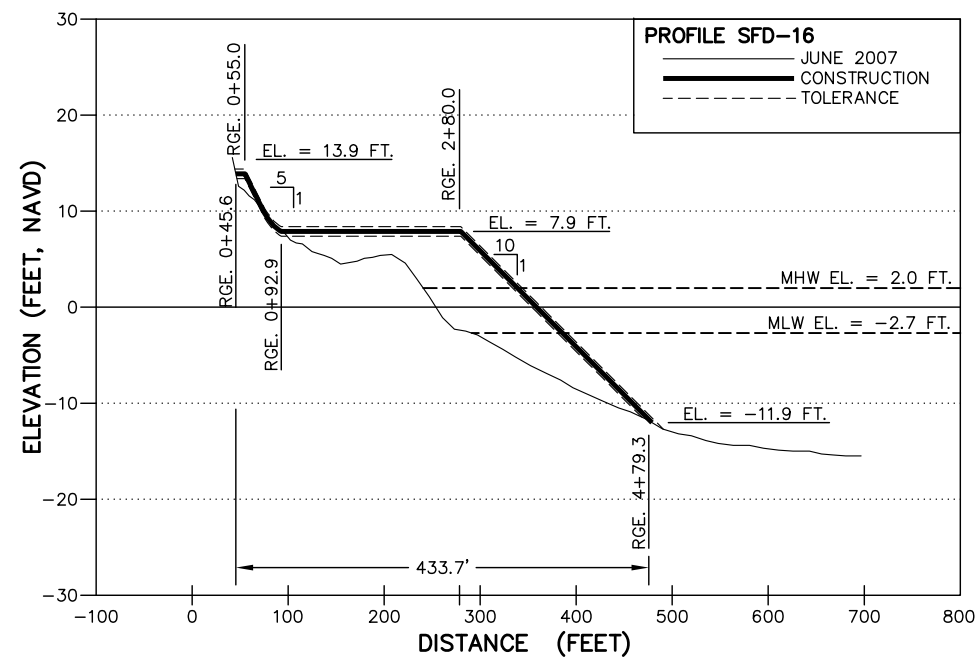
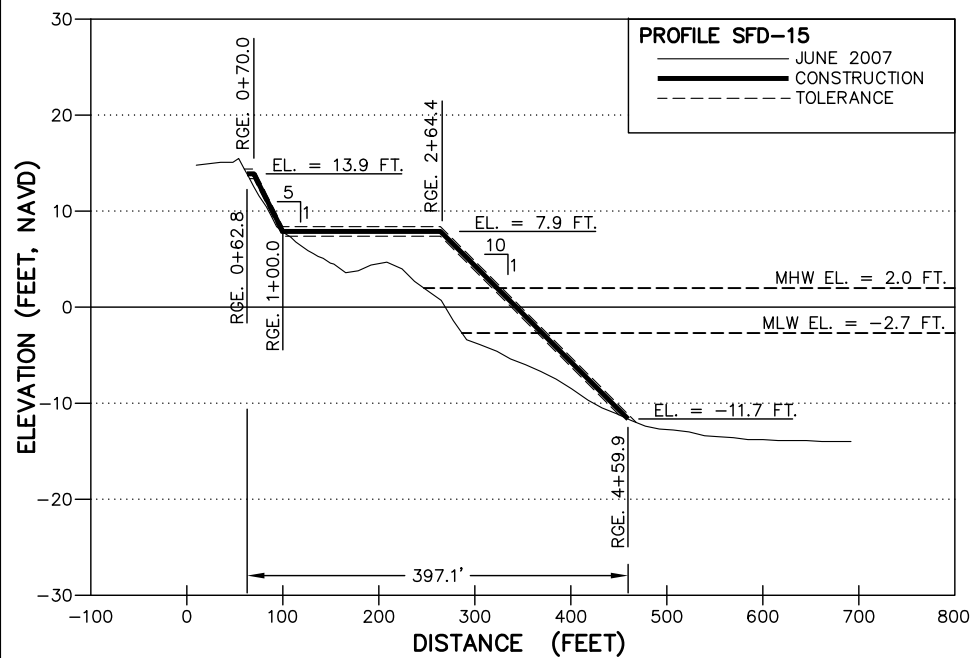
WESTERN FIRE ISLAND SEGMENT I  
FIRE ISLAND, NEW YORK  
2008 BEACH RENOURISHMENT PROJECT

**WESTERN FIRE ISLAND  
BEACH PROFILES**

DRAWING NO.


PR-2


SHEET 7 OF 16



NOTES:

1. ELEVATIONS ARE IN FEET BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD,88).
2. TOLERANCE:  $\pm 0.5$  FT.

HORIZONTAL SCALE:  0 50 100  
GRAPHIC SCALE IN FT

VERTICAL SCALE:  0 5 10  
GRAPHIC SCALE IN FT

THOMAS J CAMPBELL P.E. NO. 56457

DATE \_\_\_\_\_

WESTERN FIRE ISLAND SEGMENT I  
FIRE ISLAND, NEW YORK  
2008 BEACH RENOURISHMENT PROJECT

**WESTERN FIRE ISLAND  
BEACH PROFILES**

DRAWING NO.

SHEET 8 OF 16

**COASTAL PLANNING & ENGINEERING OF NY PC**  
2481 N.W. BOCA RATON BOULEVARD  
BOCA RATON, FLORIDA 33431  
PH. (561) 391-8102  
FAX (561) 391-9116  
C.O.A. NY #4582  
[www.CoastalPlanning.net](http://www.CoastalPlanning.net)

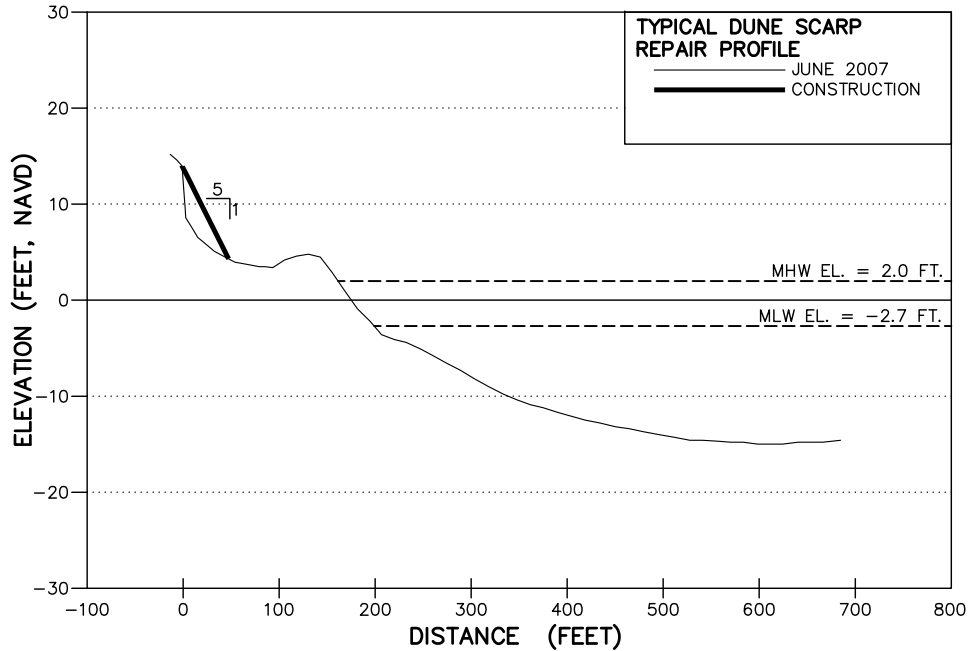
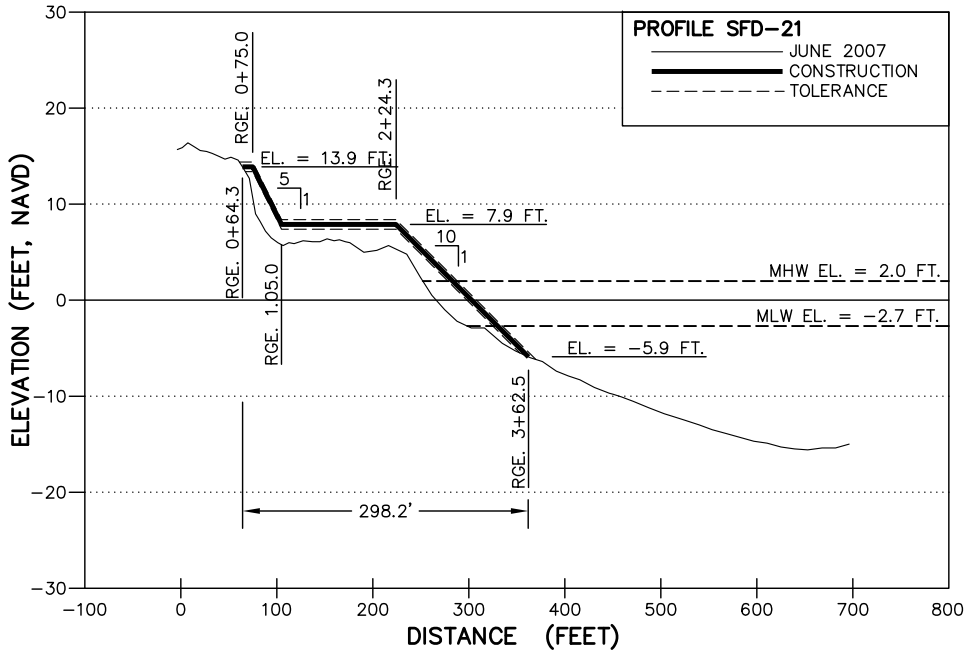


2	6/25/08	FMS EA
No.	Date	Description

SK	Drawn by: TM	Reviewed by: SK	AMB
	Date: 2/22/08	Submitted by: SK	
	Plot Scale: AS NOTED	Comm. No.: 7300.32	

730032\_BORDER.DWG

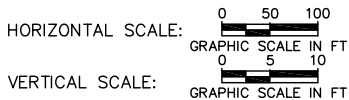
H:\New York\PROJECTS\2003Z\CONSTRUCTION\WESTERN FIRE ISLAND\2003Z.WP\_Plot.dwg -- Jun 27, 2008 @ 4:57pm -- edwin



**TYPICAL DUNE SCARP REPAIR PROFILE:**  
THE SCARP WILL BE REPAIRED BY PUSHING SAND INTO A 1V:5H SLOPE TO COVER THE SCARPED FACE OF THE DUNE. THE REPAIR WILL NOT INCREASE THE DUNE WIDTH.

**NOTES:**

- ELEVATIONS ARE IN FEET BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD,88).
- TOLERANCE:  $\pm 0.5$  FT.



THOMAS J CAMPBELL P.E. NO. 56457

DATE

WESTERN FIRE ISLAND SEGMENT  
FIRE ISLAND, NEW YORK  
2008 BEACH RENOURISHMENT PROJECT  
WESTERN FIRE ISLAND  
FILL CROSS SECTIONS

DRAWING NO.

**PR-4**

SHEET 9 OF 16



**Coastal Planning & Engineering of NY PC**  
2481 N.W. BOCA RATON BOULEVARD  
BOCA RATON, FLORIDA 33431  
PH. (561) 391-8102  
FAX (561) 391-9116  
C.O.A. NY #4582  
www.CoastalPlanning.net

Reference Files:	Designed by:	Checked by:	1	5/20/08	RESPONSE TO USACE RAI
75003Z_000000000000	SK	AMB	2	6/25/08	FINIS EA
	Drawn by:	Reviewed by:			
	TM	SK			
	Date:	Submitted by:			
	2/22/08	SK			
	Print Scale:	Comm. No:		No.	Date
	AS NOTED	7300.32			
					Description