PROJECT SPONSOR

PARK BOARD OF TRUSTEES
of the City of Galveston

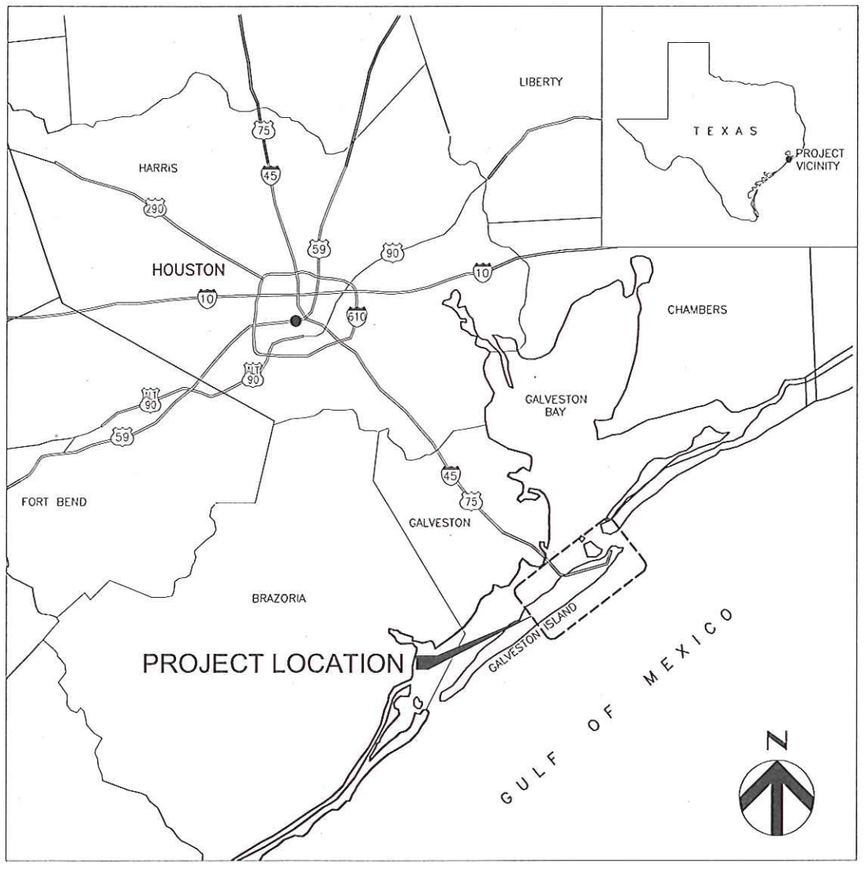
HDR

HDR Engineering, Inc.

Texas P.E. Firm
Registration No. 754

STATE OF TEXAS
REGISTERED
GEORGE RUBIO CABA
4229
PROFESSIONAL
LAND SURVEYOR

6/27/2011



Survey Drawings For

PARK BOARD OF TRUSTEES OF THE CITY OF GALVESTON

GALVESTON SEAWALL BEACH MONITORING

Project No.
161792

GALVESTON COUNTY, TEXAS
JUNE 2011

INDEX OF DRAWINGS

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GENERAL LINE SYMBOLOGY

BASELINE (160+00 — 165+00)

+2.5 FT CONTOUR

+15.3 SPOT ELEVATION, FT

BM1 SURVEY CONTROL POINT

SHEET NAMING CONVENTION

DISCIPLINE DESIGNATOR & DISCIPLINE ORDER

G	GENERAL
V	SURVEYING/MAPPING
X	DEMOLITION
C	CIVIL
U	MULTI-DISCIPLINE
S	STRUCTURAL
A	ARCHITECTURAL
D	PROCESS
M	MECHANICAL (HVAC)
P	PLUMBING
E	ELECTRICAL
Y	INSTRUMENTATION

EXAMPLE

G		

DISCIPLINE DESIGNATOR

	0	1

SHEET NUMBER

GENERAL SYMBOLOGY

ARROW INDICATES DIRECTION OF PLAN NORTH

N

DETAIL NUMBER

PLAN

SCALE: 1"=200'

SHEET WHERE DETAIL WAS CALLED OUT

/ XXX

PLAN TITLE

GENERAL NOTES:

1. AERIAL SHOWN ON SHEETS V-01 THROUGH V-04 WERE TAKEN BY LANMON AERIAL PHOTOGRAPHY, INC. OF CORPUS CHRISTI ON MAY 2011. BEACH PHOTOGRAPHS ON SHEETS V-18 THROUGH V-20 WERE TAKEN BY HDR, INC. ON MAY 3, 2011 THROUGH MAY 6, 2011.
2. SURVEYING OF SEAWALL BEACH (SHEETS V-05 THROUGH V-17) WAS PERFORMED BY HDR, INC. DRAWINGS REPRESENT THE CONDITIONS THAT EXISTED AT THE TIME OF THE SURVEYS CONDUCTED DURING MAY 3, 2011 THROUGH MAY 6, 2011.
3. COORDINATES SHOWN ARE IN FEET AND REFERENCED TO LAMBERT GRID, TEXAS SOUTH CENTRAL ZONE, NAD '83 (1993).
4. ELEVATIONS SHOWN ARE IN FEET AND REFERENCED TO NAVD '88.

PROJECT HISTORY

SURVEYING

DATE	SURVEYOR	SURVEY LIMITS
APRIL 2009	NAISMITH MARINE SERVICES	STATION 157+47 TO 205+45
		STATION 233+46 TO 292+95
		STATION 319+30 TO 333+45
APRIL 2010	NAISMITH MARINE SERVICES	STATION 157+47 TO 333+45
MAY 2011	HDR ENGINEERING, INC.	STATION 157+47 TO 367+09

BEACH NOURISHMENT

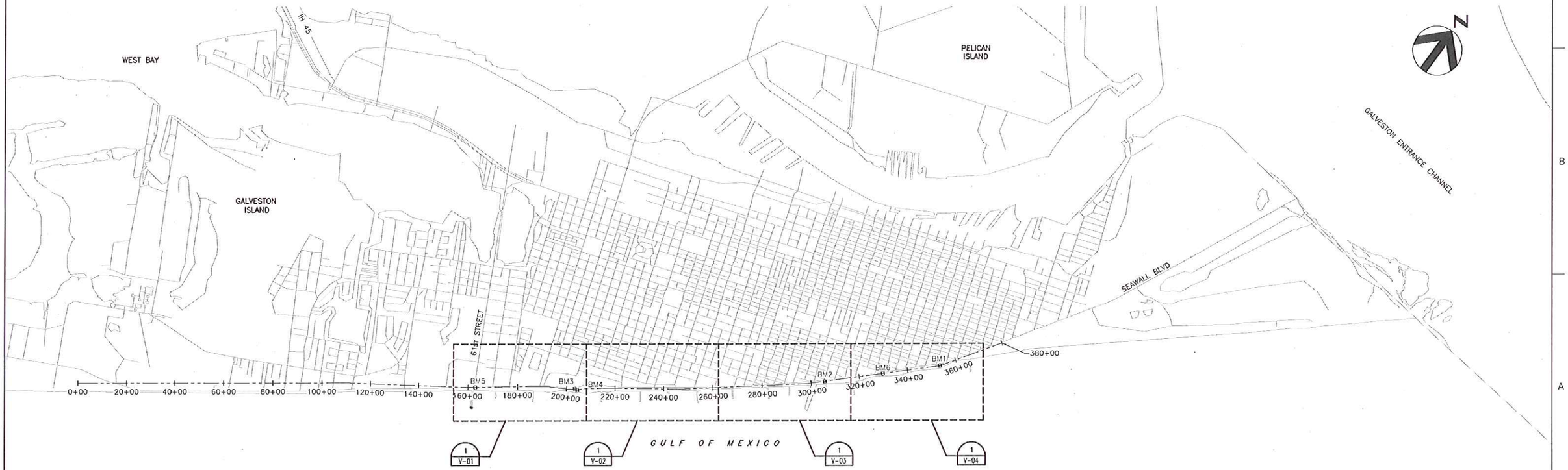
DATE	VOLUME	PLACEMENT LIMITS
APRIL 2009	490,662 CY	STATION 161+75 TO 200+25
		STATION 230+00 TO 300+00
		STATION 321+00 TO 337+00
APRIL 2010	74,446	STATION 200+25 TO 230+00
		STATION 301+00 TO 321+00
		STATION 337+00 TO 352+00

MOUNUMENTS USED FOR SURVEY CONTROL

NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION	NO.
AW0588	13,680,085.77	3,313,815.45	14.27	WALL	BM1
AW0590	13,676,792.20	3,310,374.21	14.44	E168	BM2
AW0597	13,670,547.58	3,302,290.59	14.55	CROCKETT 2	BM3
AW0599	13,670,559.13	3,302,404.70	13.99	CROCKETT RM 1	BM4
AW0602	13,668,199.92	3,298,985.53	13.55	H168	BM5
AW1703	13,678,460.35	3,312,117.76	14.35	TIDAL 46	BM6

SEAWALL CONSTRUCTION BASELINE COORDINATES

STATION	NORTHING	EASTING
0+00	13,658,765	3,285,709
109+85	13,665,242	3,294,582
160+74	13,668,080	3,298,806
187+00	13,669,657	3,300,905
192+23	13,669,958	3,301,333
201+24	13,670,399	3,302,119
217+49	13,671,394	3,303,403
246+74	13,673,081	3,305,793
298+65	13,676,316	3,309,853
353+36	13,680,087	3,313,817
364+65	13,681,027	3,314,442



KEY MAP

SCALE: 1" = 2000'

PRINTED HALF-SIZE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS · REGISTERED · GEORGE RUBALCABA · 4229 · PROFESSIONAL LAND SURVEYOR

6/22/11

GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

KEY MAP, GENERAL NOTES AND LEGEND

FILENAME	00G-02.dwg
SCALE	1" = 2000'

SHEET G-02

PARTIAL PLAN 1 (1 / C-02)

SCALE 0 200' 400'

PRINTED HALF-SIZE

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ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
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PROJECT NUMBER	161792

STATE OF TEXAS — REGISTERED — GEORGE RUBALCABA — 4229 — PROFESSIONAL LAND SURVEYOR — RUBALCABA — 6/22/11

GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

PARTIAL PLAN 1

FILENAME	00V-01.dwg
SCALE	1" = 200'

SHEET V-01

PARTIAL PLAN 2

SCALE 0 200' 400' (1 / G-02)

PRINTED HALF-SIZE

HDR Engineering Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
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PROJECT NUMBER	161792

STATE OF TEXAS — REGISTERED — GEORGE RUBALCABA — 4229 — PROFESSIONAL LAND SURVEYOR — 6/22/11

GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

PARTIAL PLAN 2

FILENAME	00V-02.dwg
SCALE	1" = 200'

SHEET V-02

PARTIAL PLAN 3 (1 / G-02)

SCALE 0 200' 400'

PRINTED HALF-SIZE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS · REGISTERED · GEORGE RUBALCABA · 4729 · PROFESSIONAL LAND SURVEYOR

6/22/11

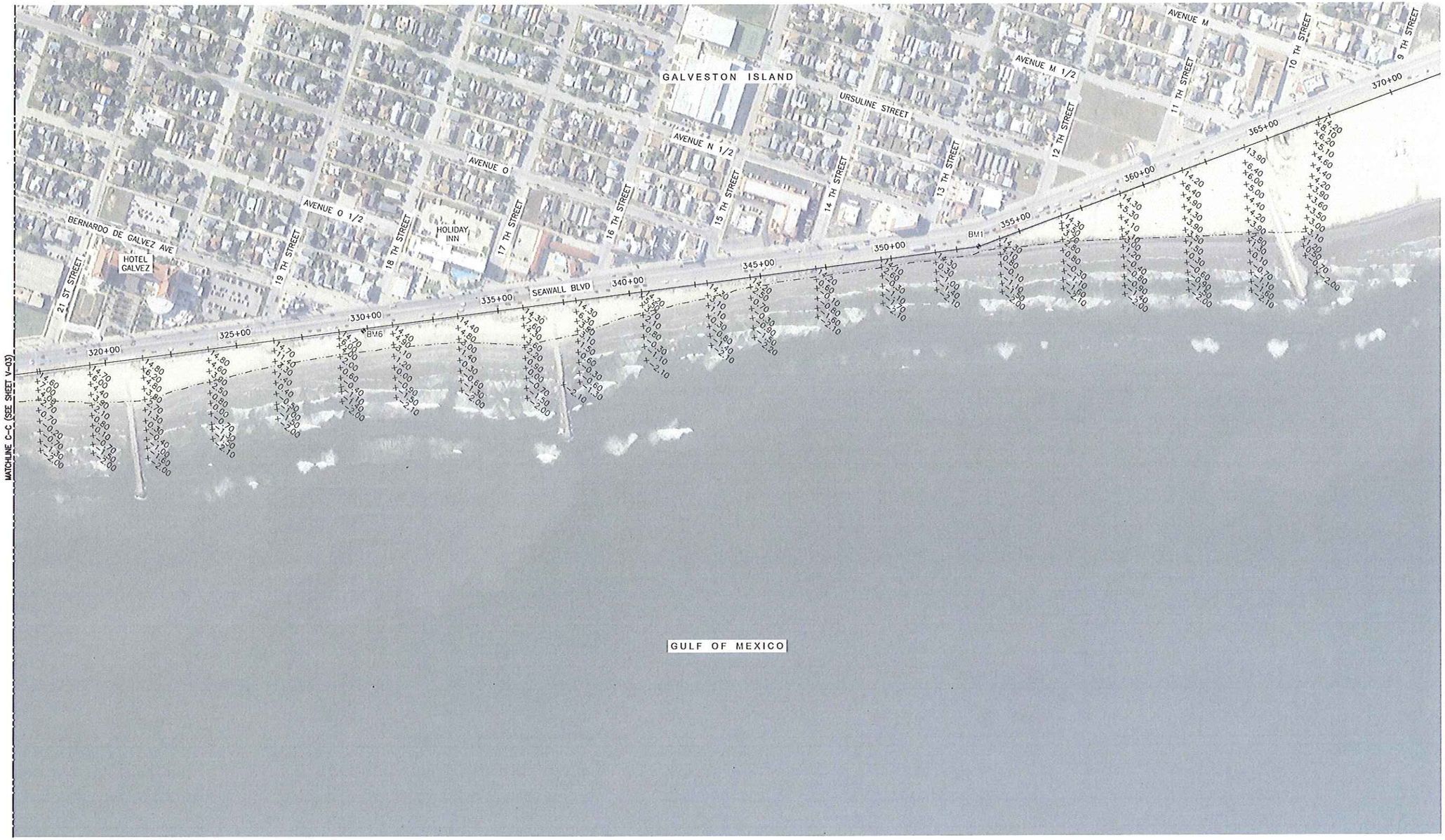
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

PARTIAL PLAN 3

FILENAME	00V-03.dwg
SCALE	1" = 200'

SHEET V-03



PARTIAL PLAN 4

SCALE 0 200' 400'

1 / C-02

PRINTED HALF-SIZE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS REGISTERED C. GEORGE RUBALCABA 4229 PROFESSIONAL LAND SURVEYOR

6/27/11

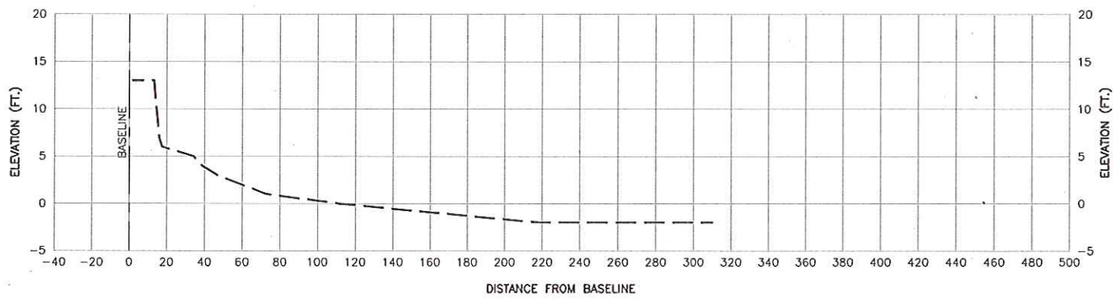
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

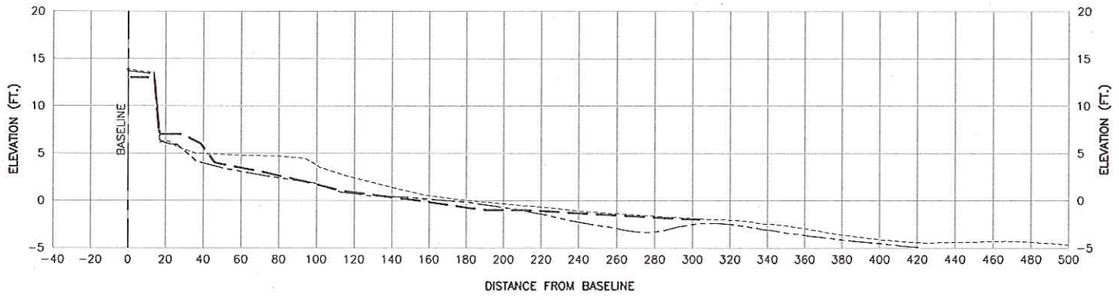
PARTIAL PLAN 4

FILENAME	00V-04.dwg
SCALE	1" = 200'

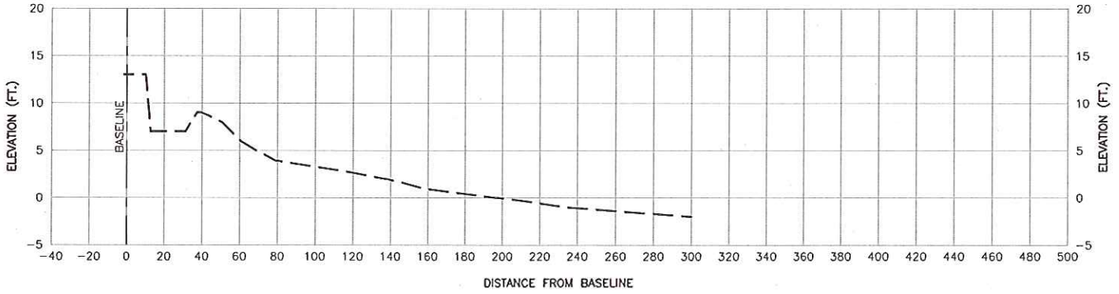
SHEET V-04



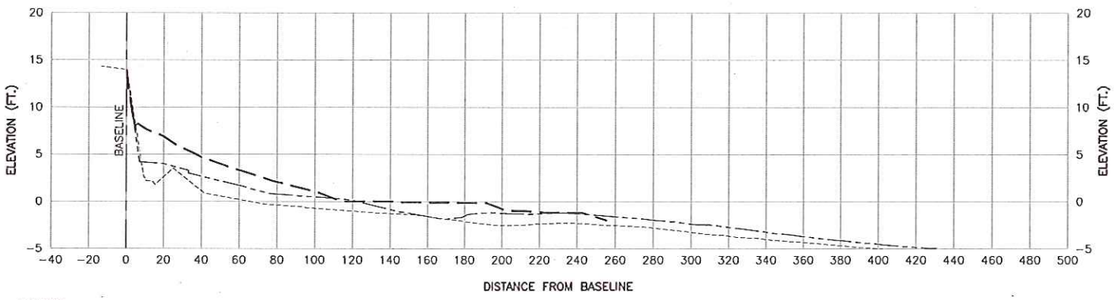
STA. 165+49



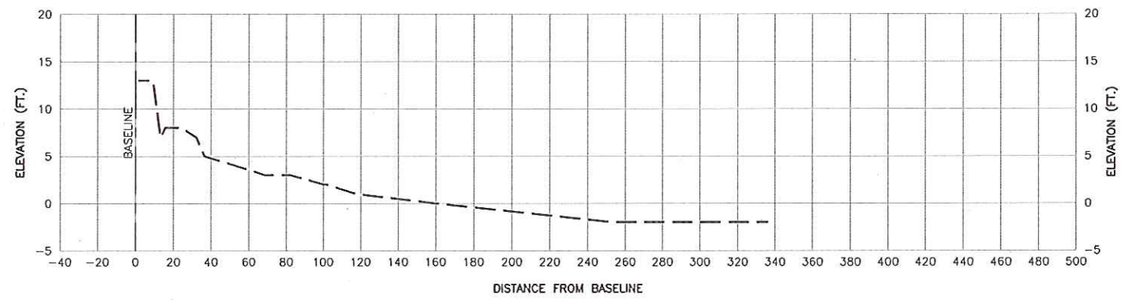
STA. 163+49



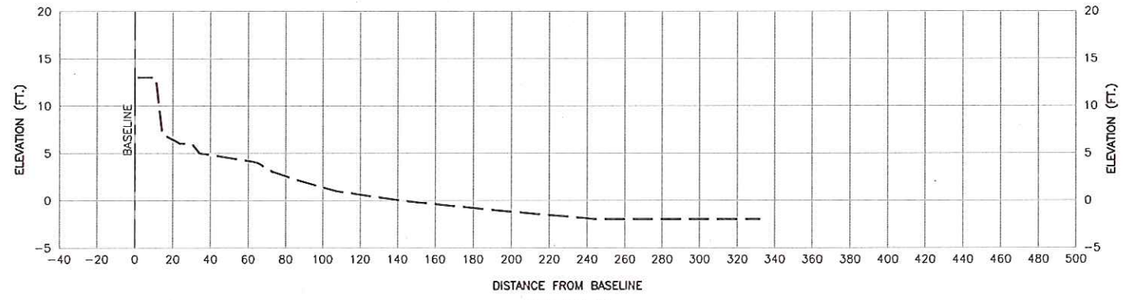
STA. 162+13



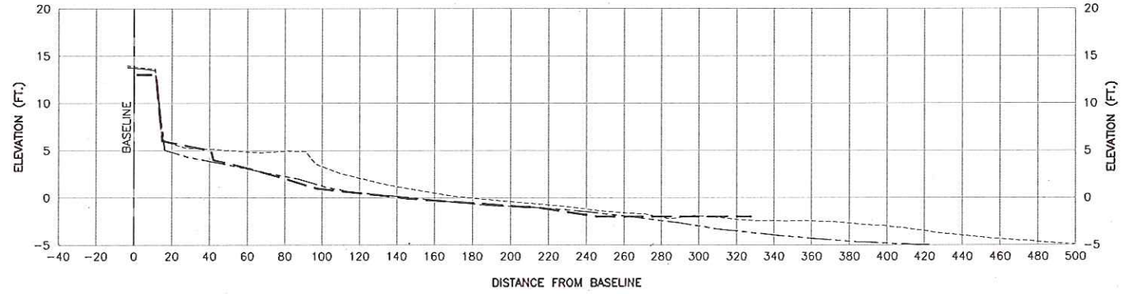
STA. 157+47



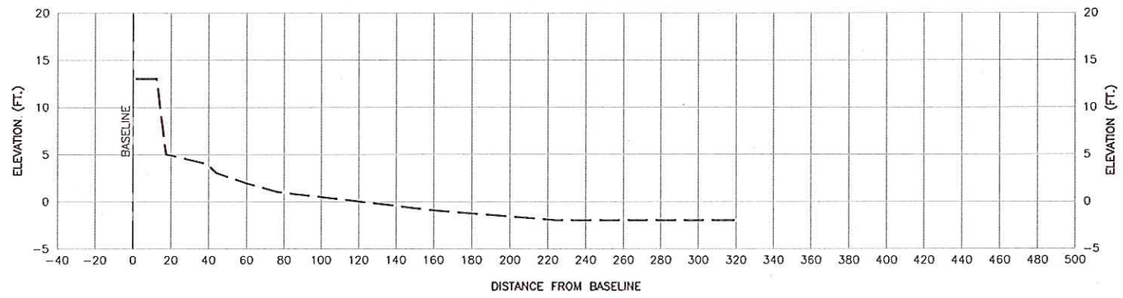
STA. 171+56



STA. 170+62



STA. 169+52



STA. 167+49

LEGEND:

---------- 2009 SURVEY DATA

—·—·— 2010 SURVEY DATA

— — — 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS REGISTERED GEORGE RUBALCABA 4229 PROFESSIONAL LAND SURVEYOR

6/22/11

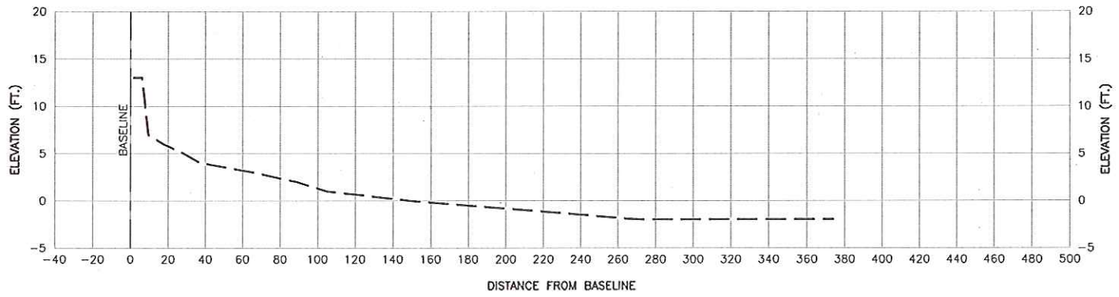
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

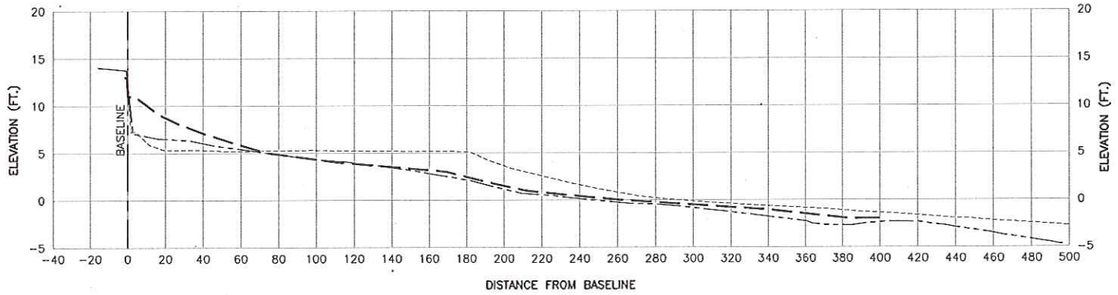
BEACH PROFILES 1

FILENAME	00V-05.dwg
SCALE	1" = 40'

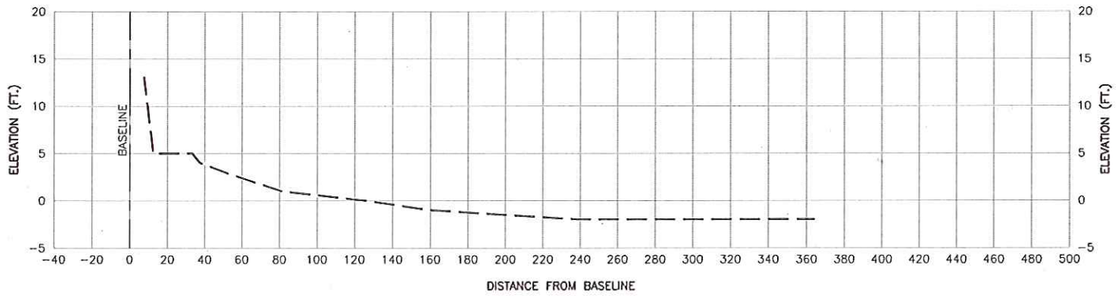
SHEET V-05



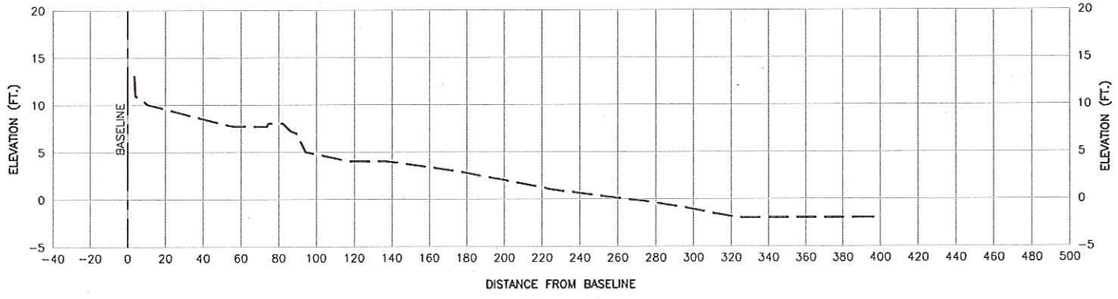
STA. 181+06



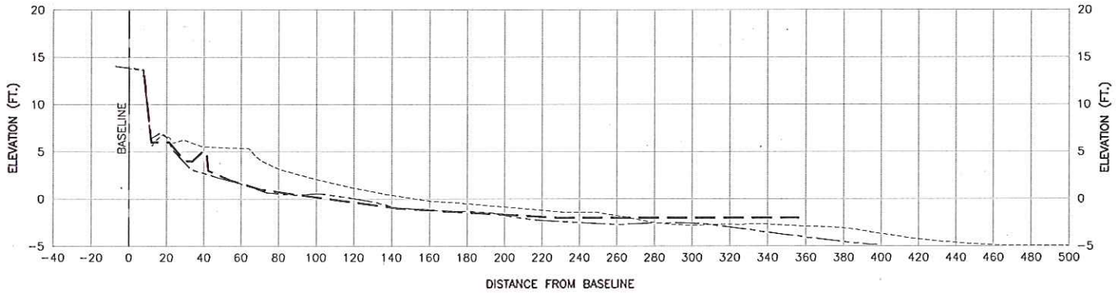
STA. 188+03



STA. 178+56



STA. 186+53



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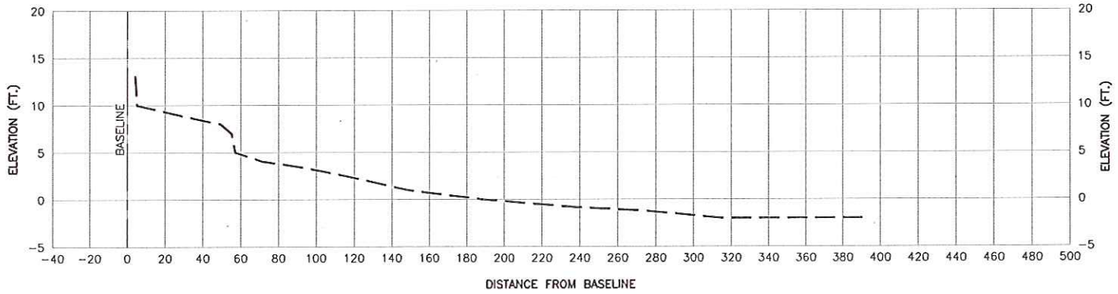
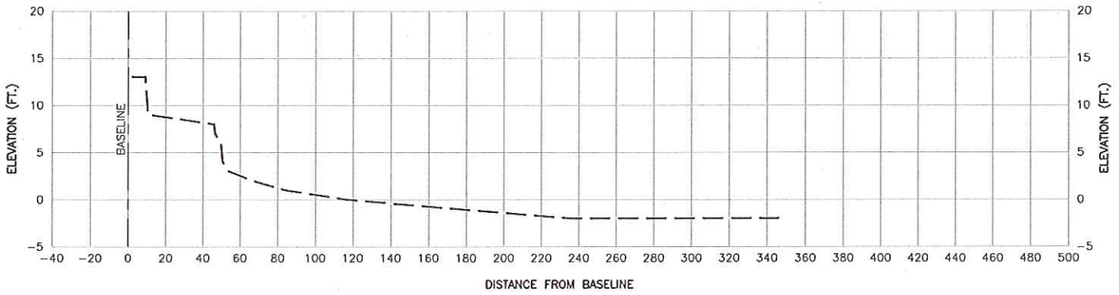
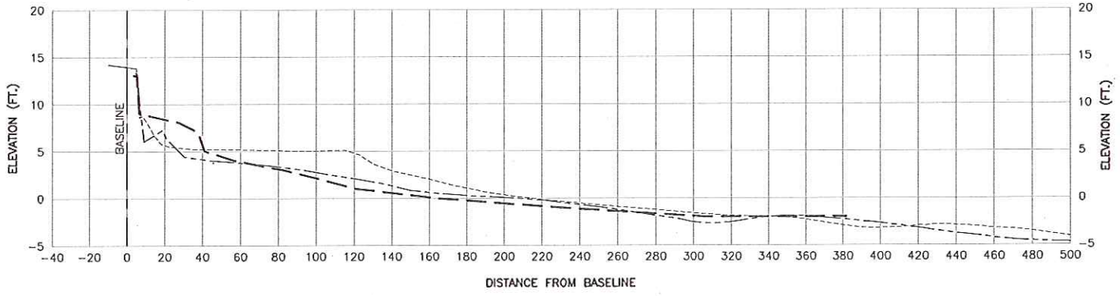


STA. 185+04



STA. 174+06



STA. 183+04

LEGEND:

---------- 2009 SURVEY DATA

—·—·— 2010 SURVEY DATA

— — — 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS · REGISTERED · GEORGE RUBALCABA · 4229 · PROFESSIONAL · LAND SURVEYOR

6/22/11

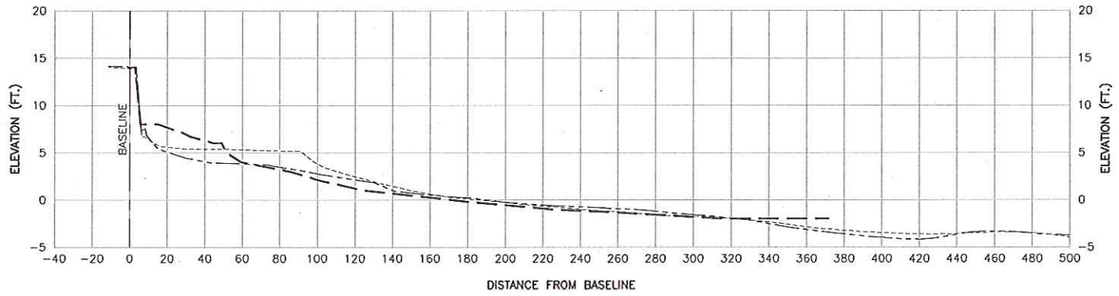
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

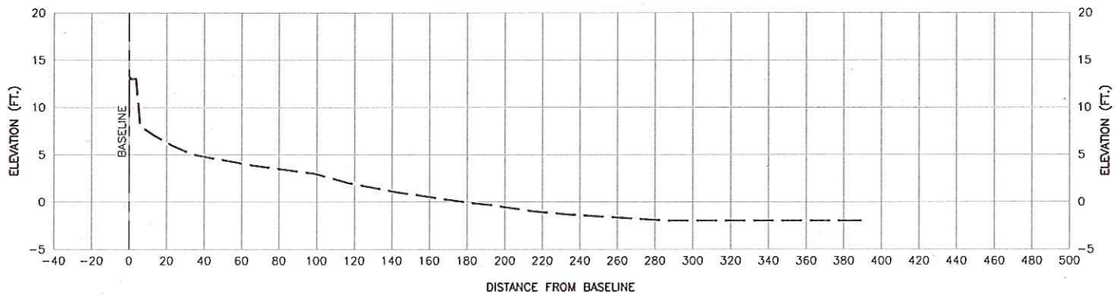
BEACH PROFILES 2

FILENAME	00V-06.dwg
SCALE	1" = 40'

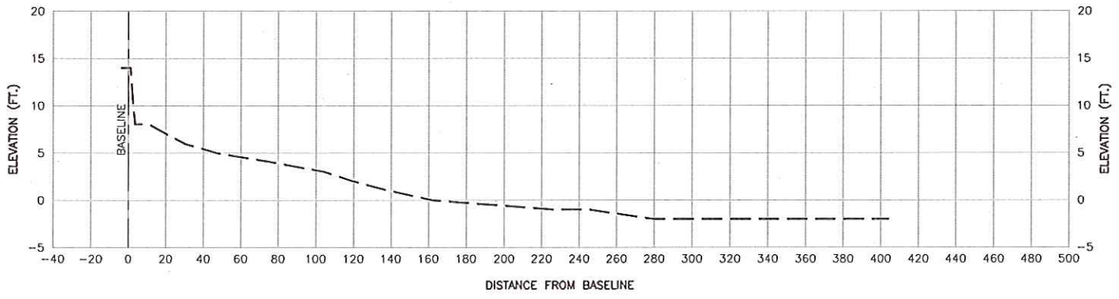
SHEET V-06



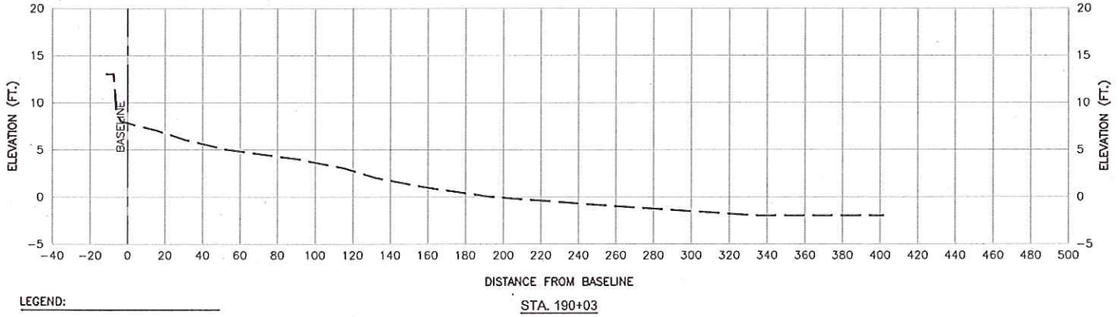
STA. 196+11



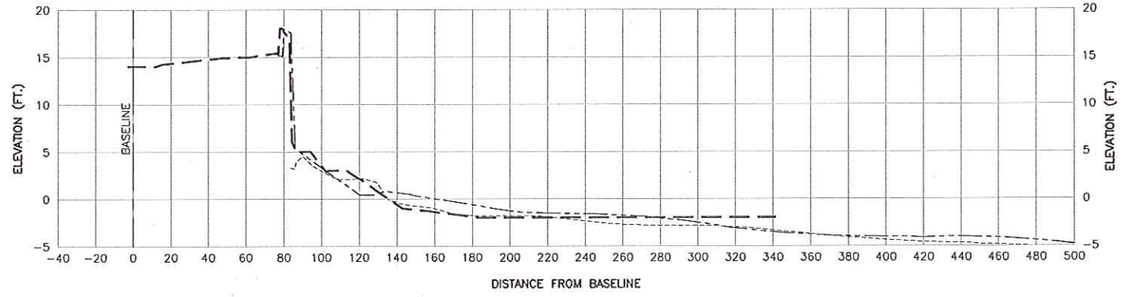
STA. 194+11



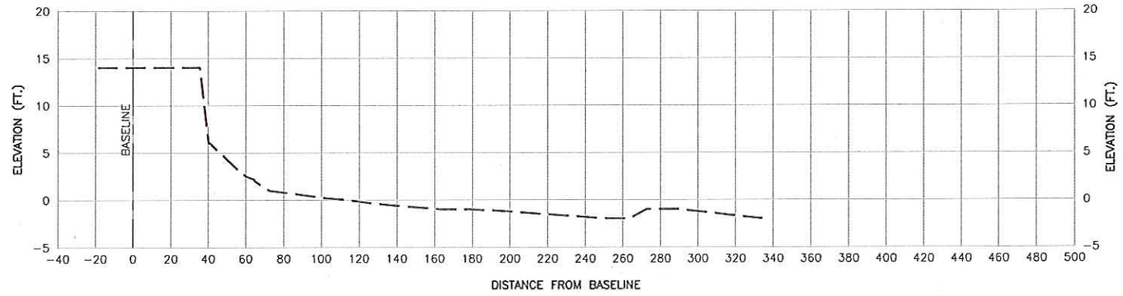
STA. 192+03



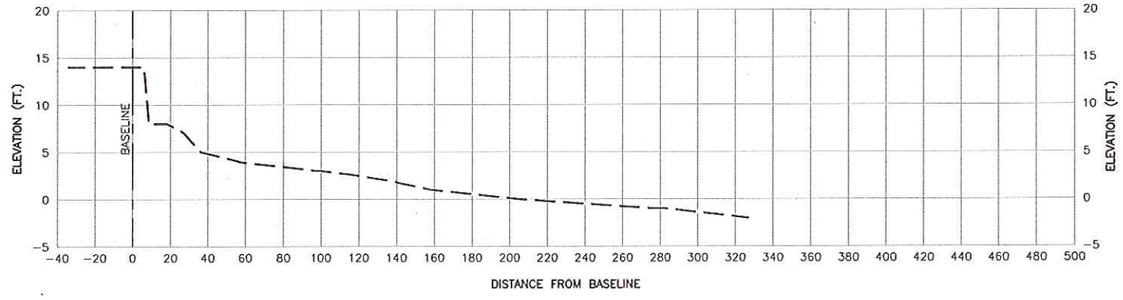
STA. 190+03



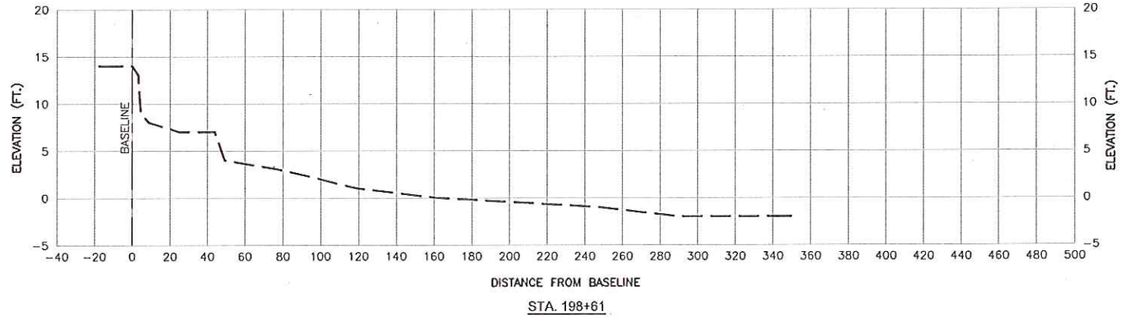
STA. 205+45



STA. 203+45



STA. 201+45



STA. 198+61

LEGEND:

---------- 2009 SURVEY DATA

——— 2010 SURVEY DATA

— — — 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS — REGISTERED — GEORGE RUBALCABA — 4229 — PROFESSIONAL LAND SURVEYOR

6/27/11

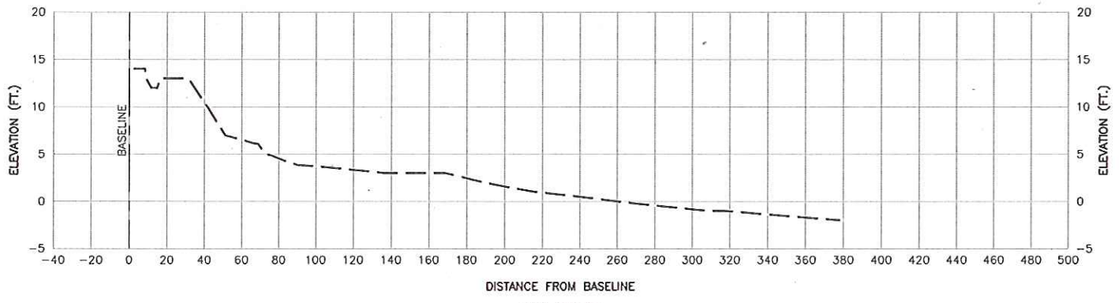
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

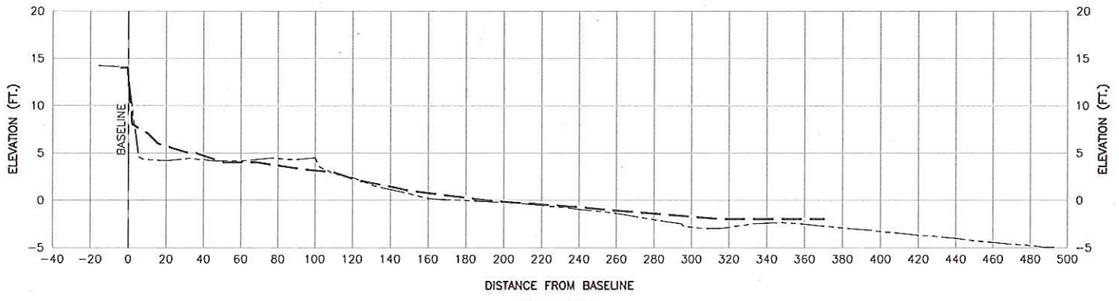
BEACH PROFILES 3

FILENAME	00V-07.dwg
SCALE	1" = 40'

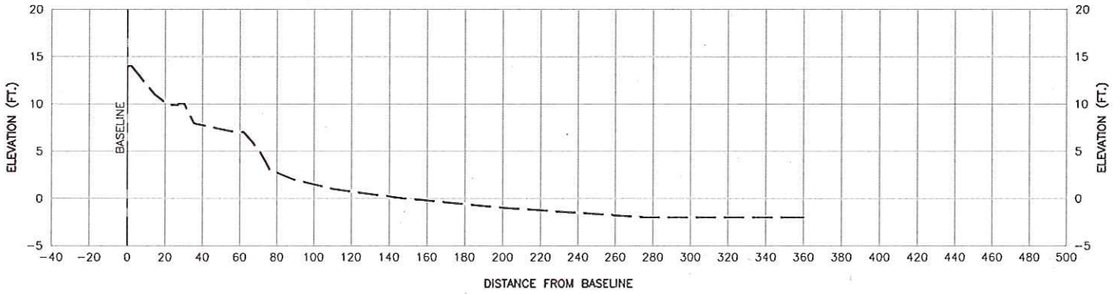
SHEET V-07



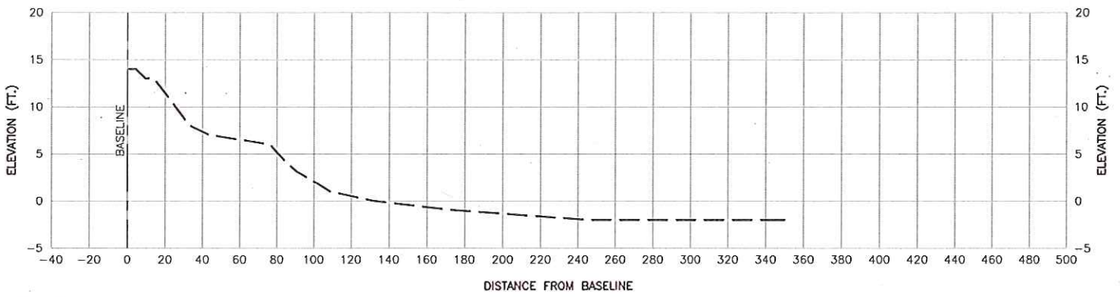
STA. 214+91



STA. 212+92



STA. 210+42



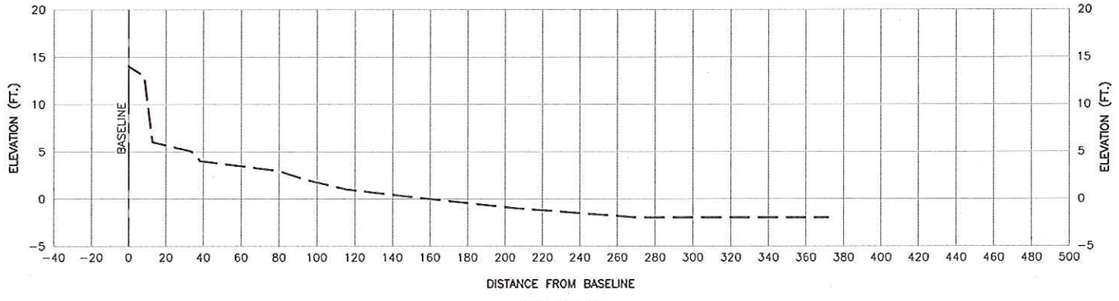
STA. 207+95

LEGEND:

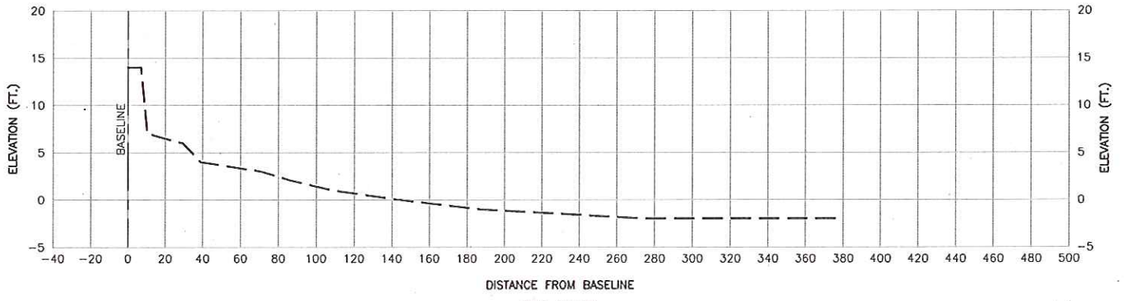
---------- 2009 SURVEY DATA

——— 2010 SURVEY DATA

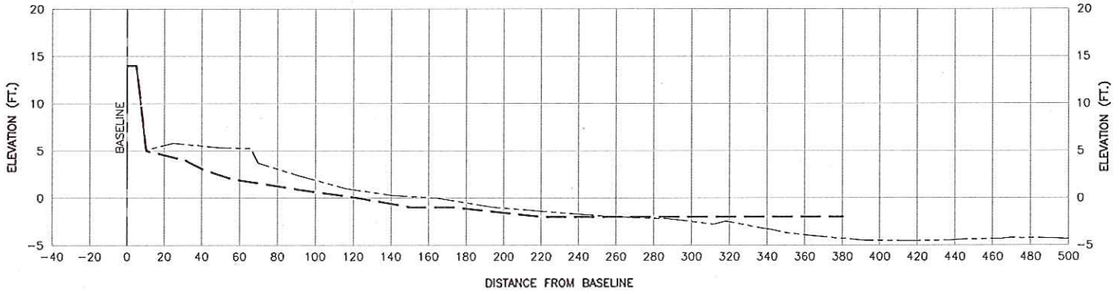
— — — 2011 SURVEY DATA



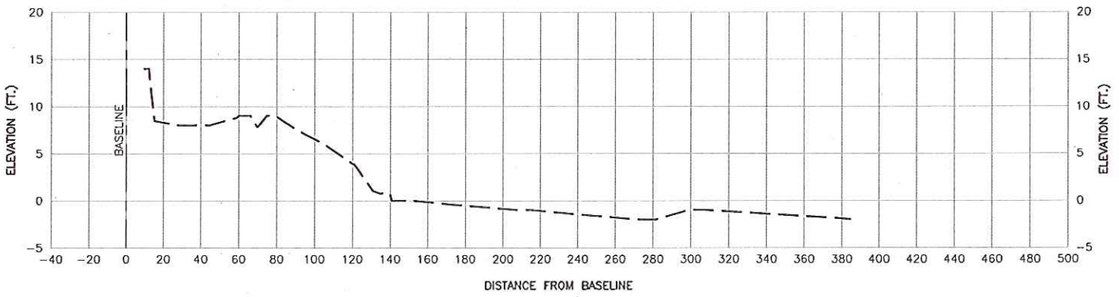
STA. 224+46



STA. 222+41



STA. 219+91



STA. 217+41

PRINTED HALF-SIZE

HDR

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS — REGISTERED — GEORGE RUBALCABA — 4229 — PROFESSIONAL LAND SURVEYOR

6/27/11

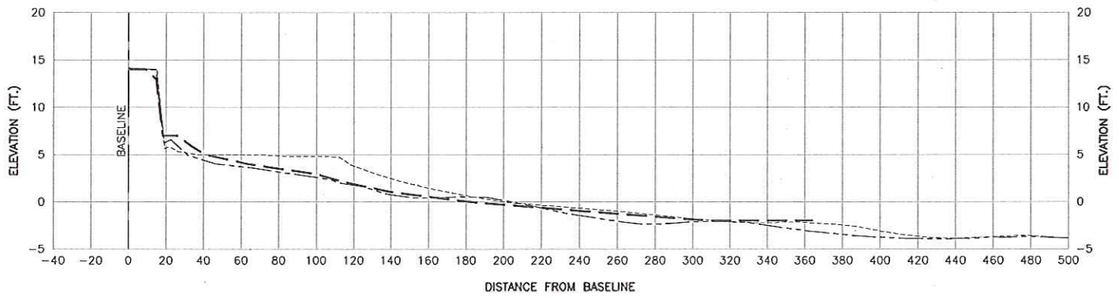
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

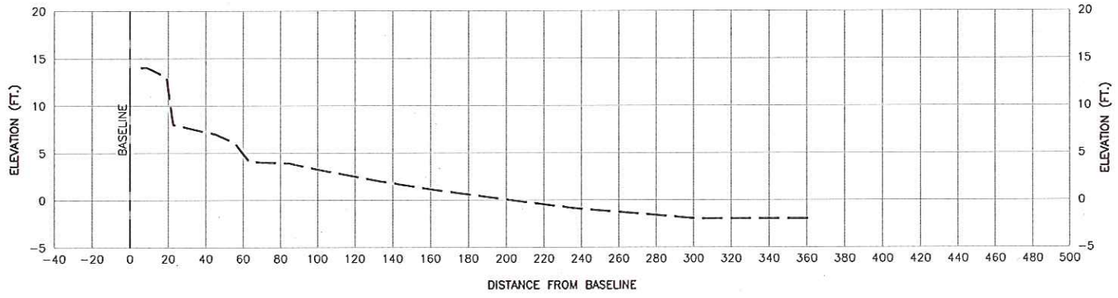
BEACH PROFILES 4

FILENAME	00V-08.dwg
SCALE	1" = 40'

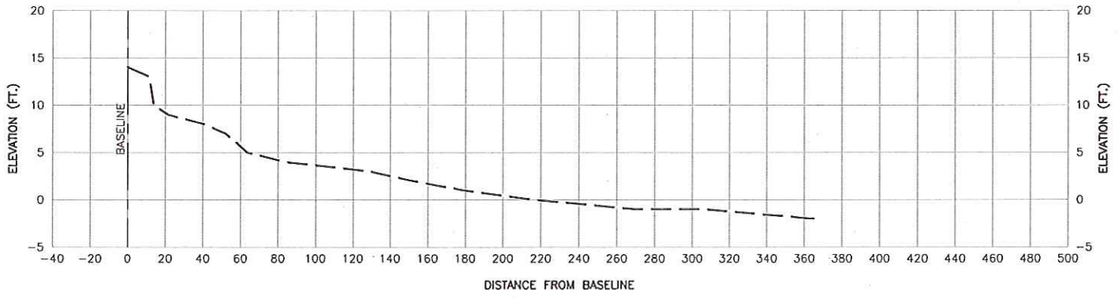
SHEET V-08



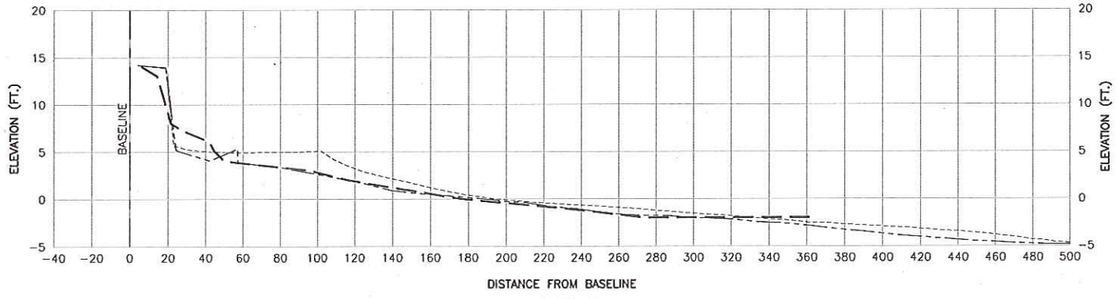
STA. 233+46



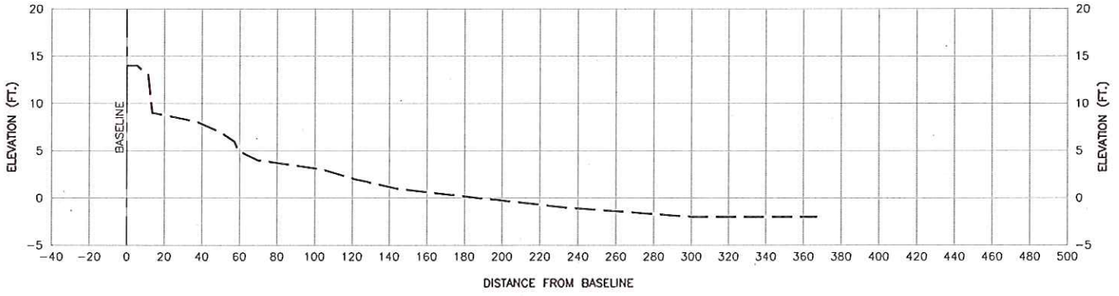
STA. 241+29



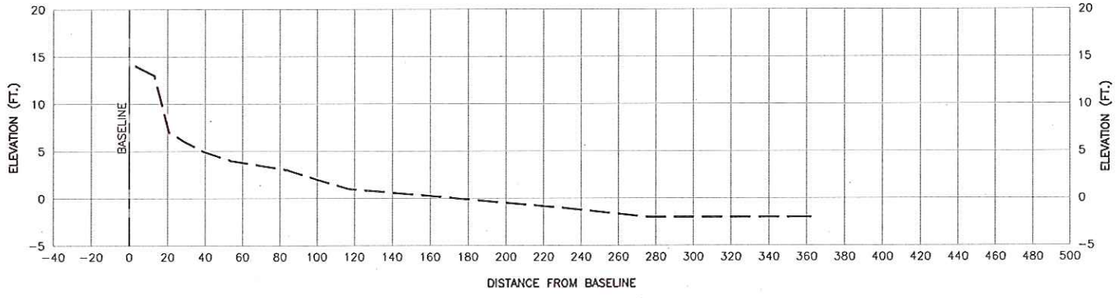
STA. 230+96



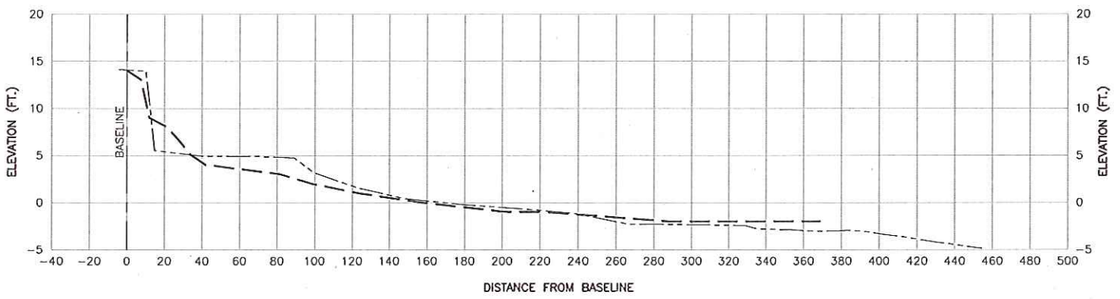
STA. 239+49



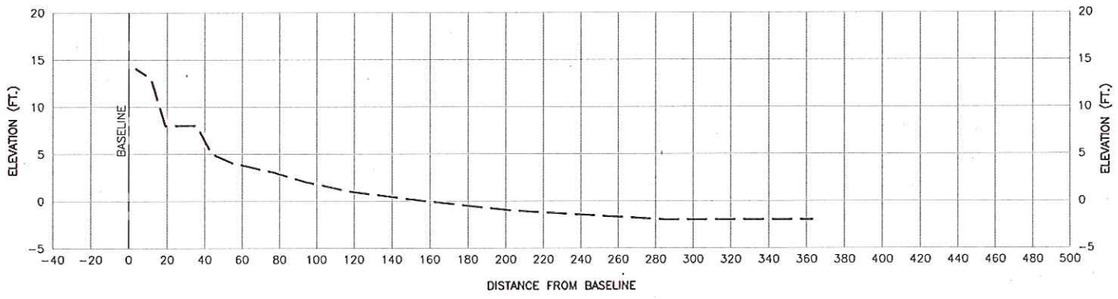
STA. 228+96



STA. 237+49



STA. 226+96



STA. 235+46

LEGEND:

---------- 2009 SURVEY DATA

— - - — 2010 SURVEY DATA

— — — 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS REGISTERED GEORGE RUBALCABA 4229 PROFESSIONAL LAND SURVEYOR

6/22/11

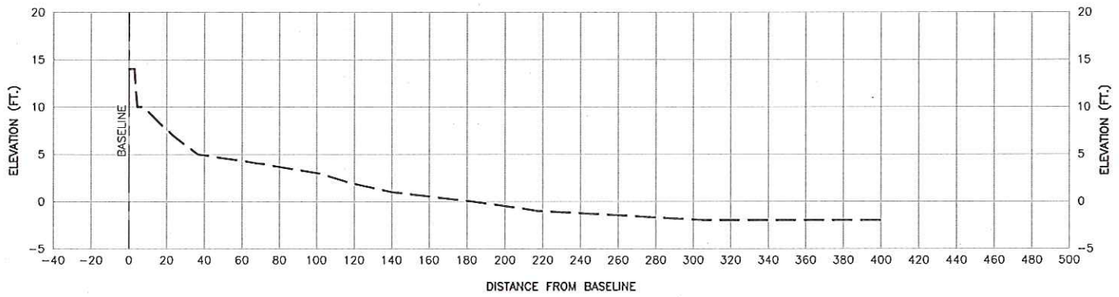
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

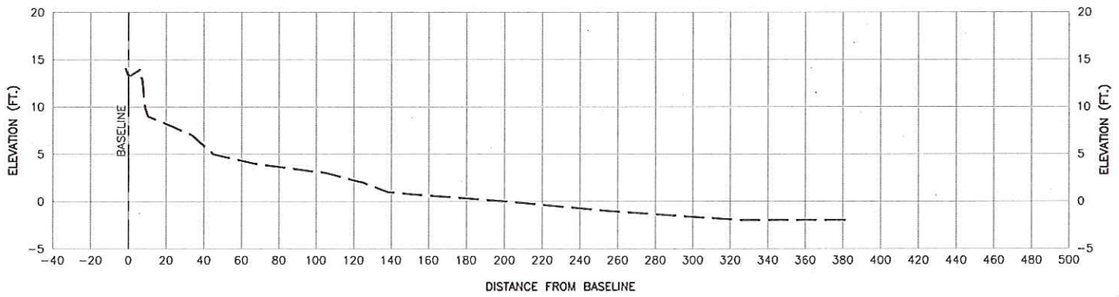
BEACH PROFILES 5

FILENAME	00V-09.dwg
SCALE	1" = 40'

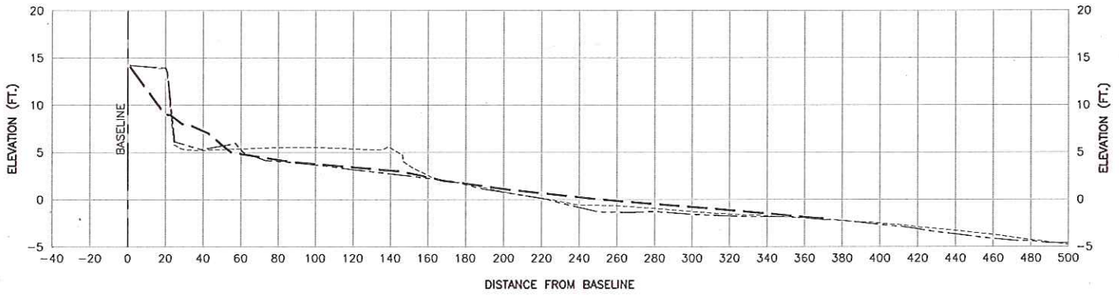
SHEET V-09



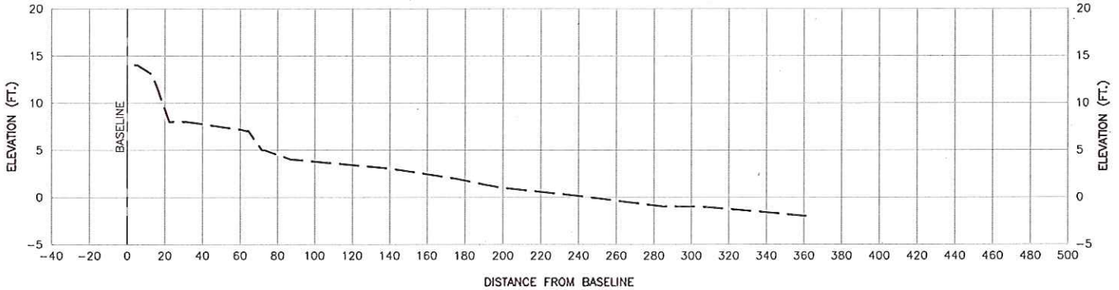
STA. 248+04



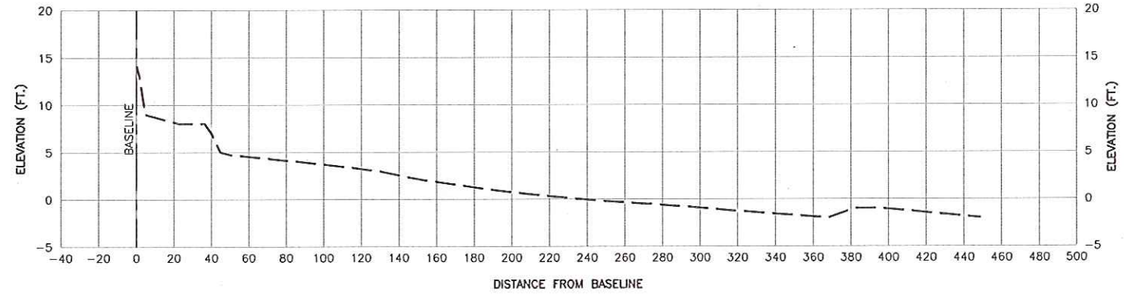
STA. 246+00



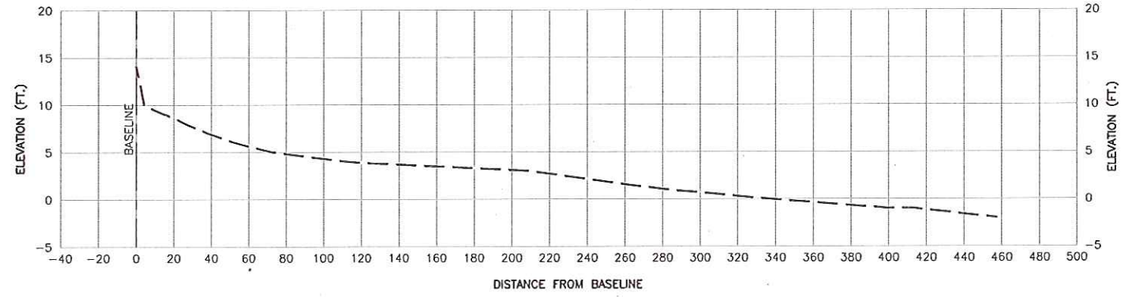
STA. 243+50



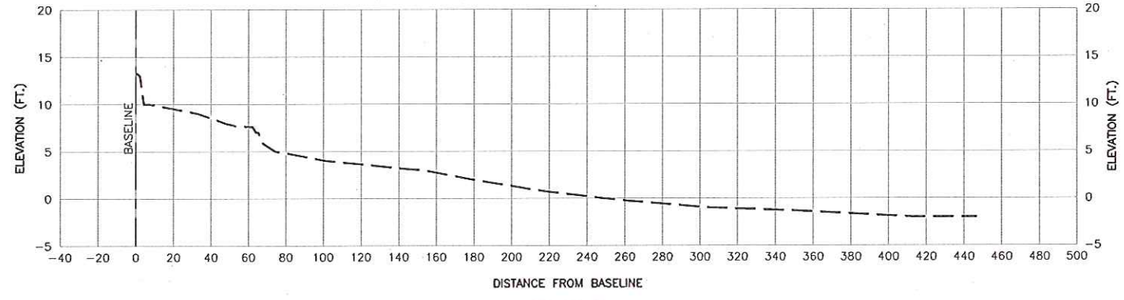
STA. 242+30



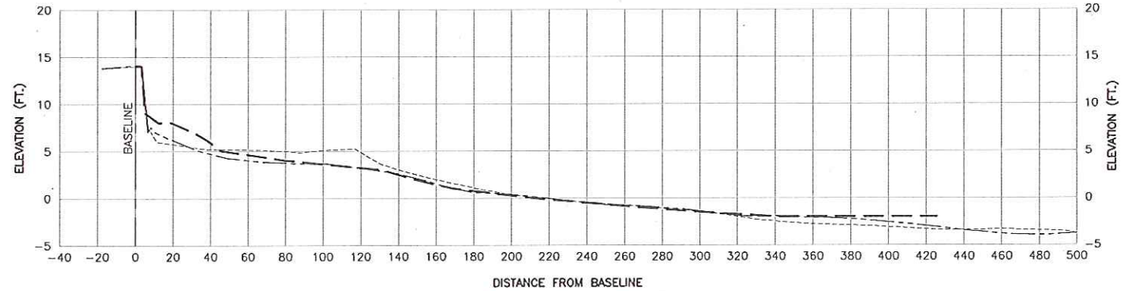
STA. 256+09



STA. 254+09



STA. 252+54



STA. 250+54

LEGEND:

---------- 2009 SURVEY DATA

——— — ——— 2010 SURVEY DATA

— — — — 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS REGISTERED G. GEORGE RUBALCABA 4229 PROFESSIONAL LAND SURVEYOR

6/22/11

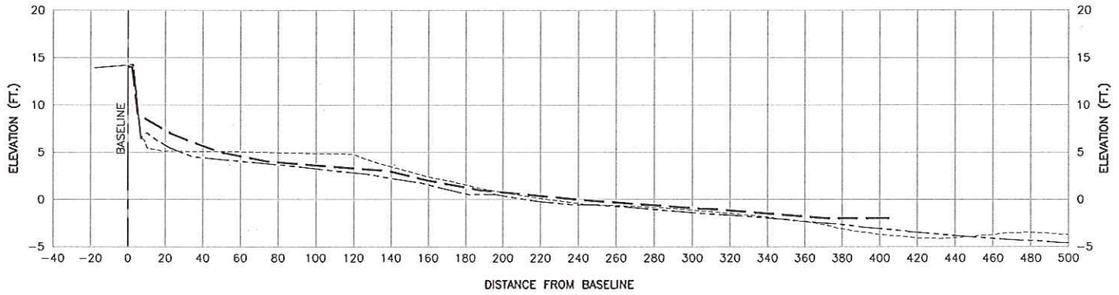
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

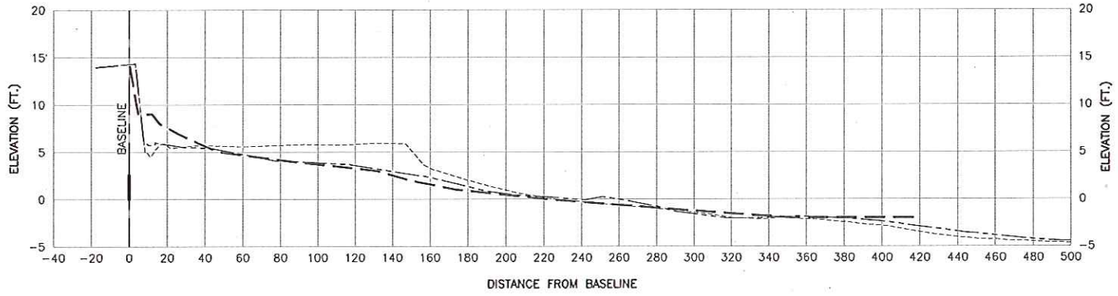
BEACH PROFILES 6

FILENAME	00V-010.dwg
SCALE	1" = 40'

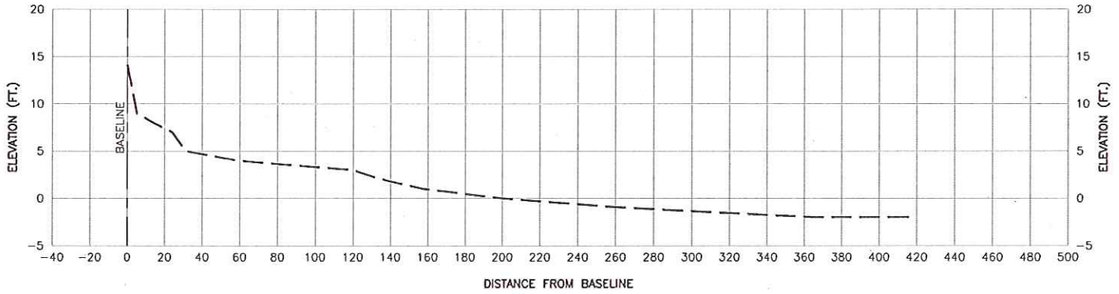
SHEET V-10



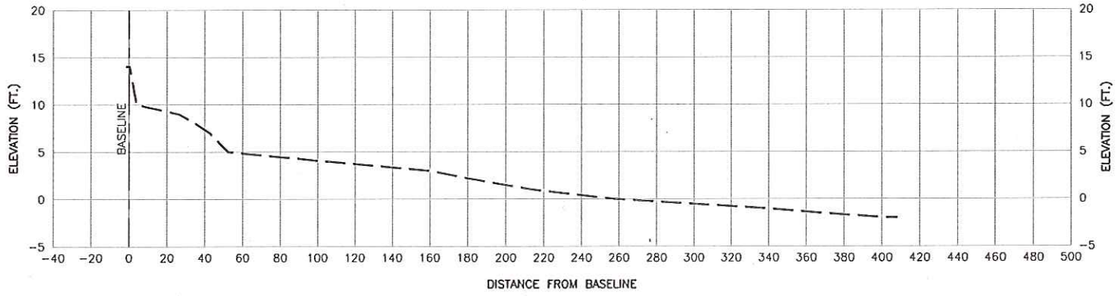
STA. 266+10



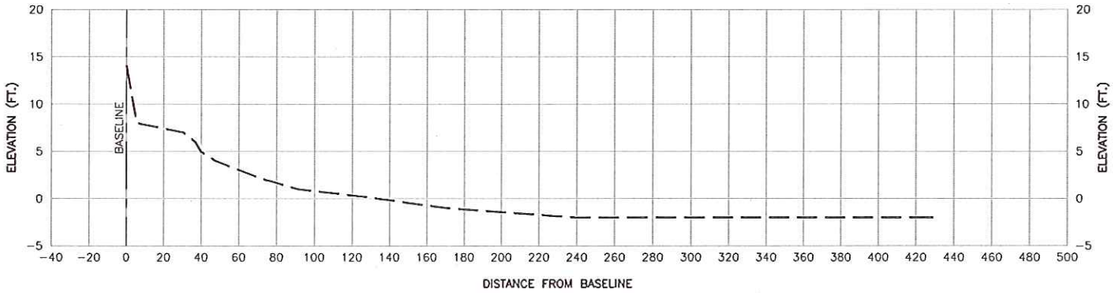
STA. 273+08



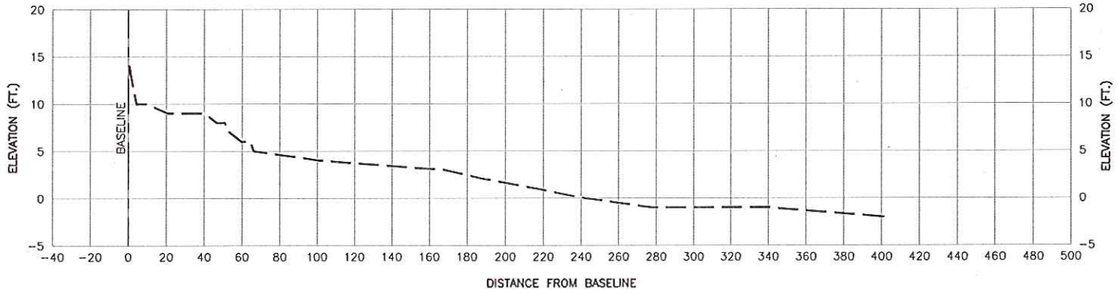
STA. 263+60



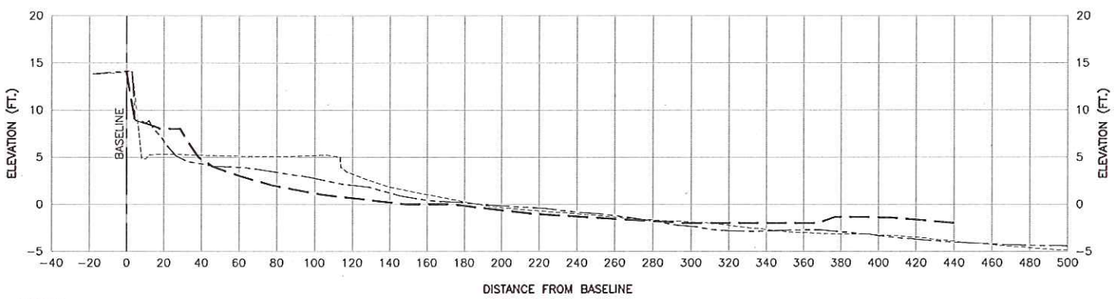
STA. 270+83



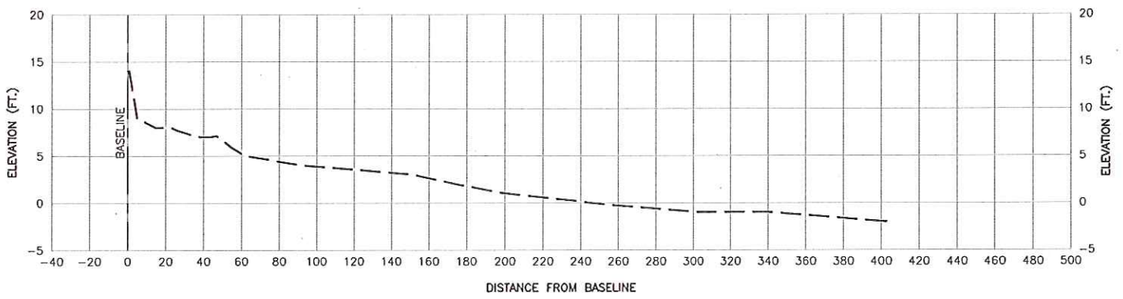
STA. 260+59



STA. 268+58



STA. 258+09



STA. 267+10

LEGEND:

---------- 2009 SURVEY DATA

——— 2010 SURVEY DATA

— — — 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS REGISTERED GEORGE RUBALCABA 4229 PROFESSIONAL SURVEYOR 6/22/11

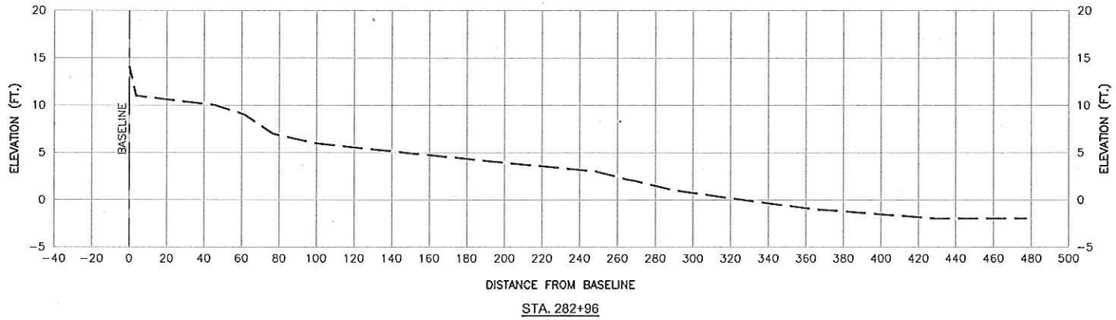
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

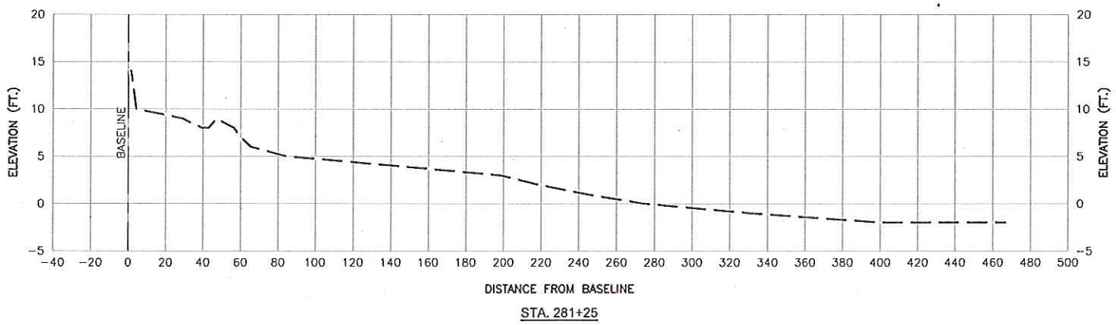
BEACH PROFILES 7

FILENAME	00V-011.dwg
SCALE	1" = 40'

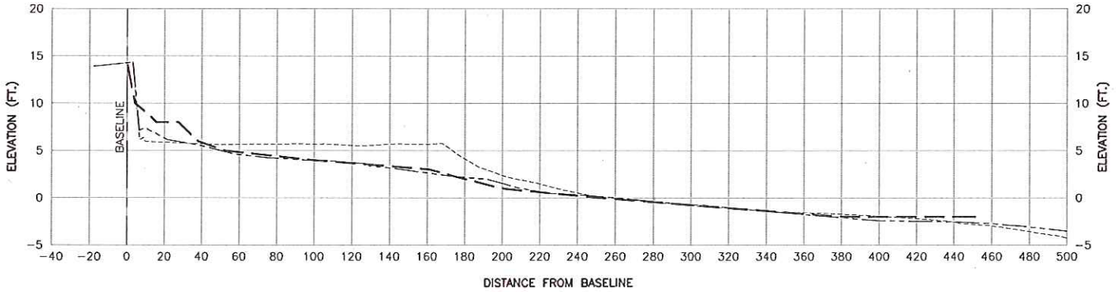
SHEET V-11



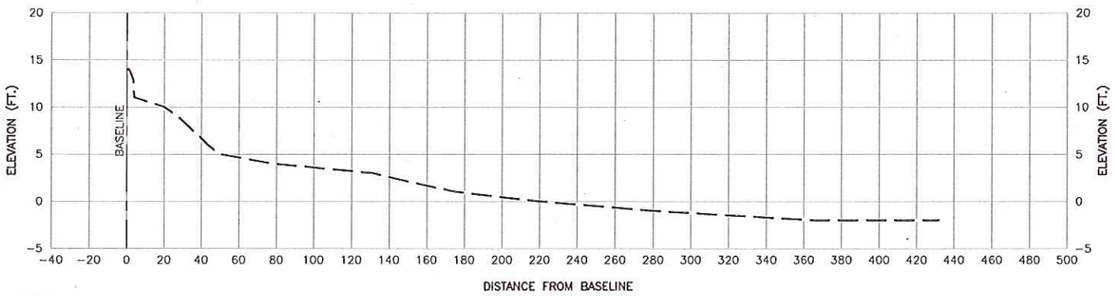
STA. 282+96



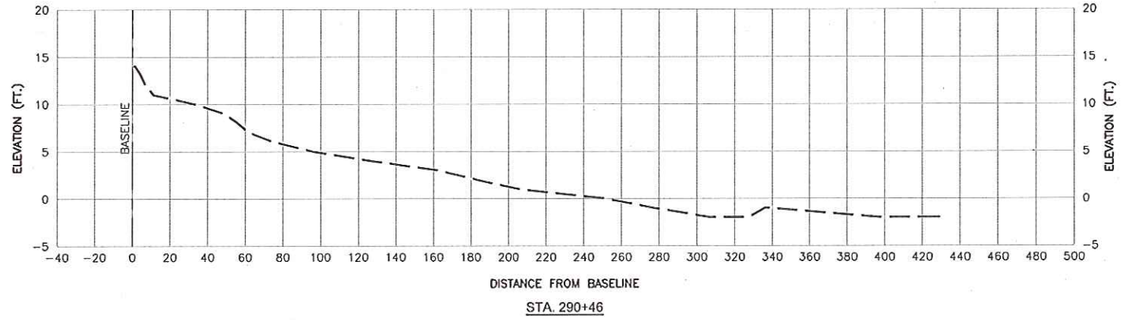
STA. 281+25



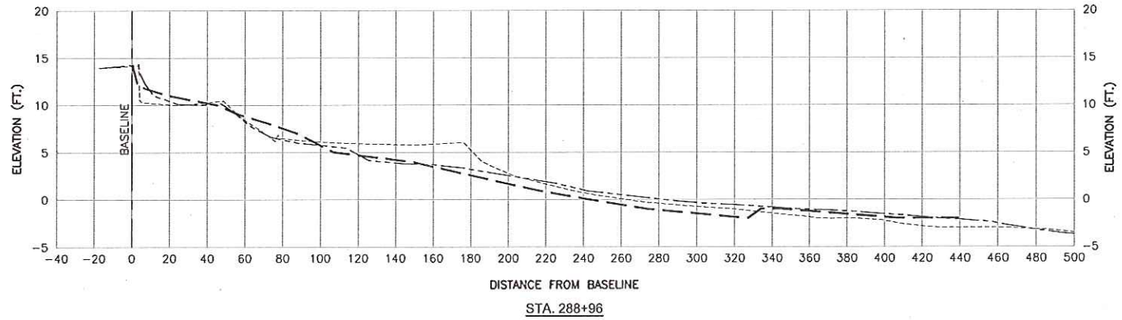
STA. 278+75



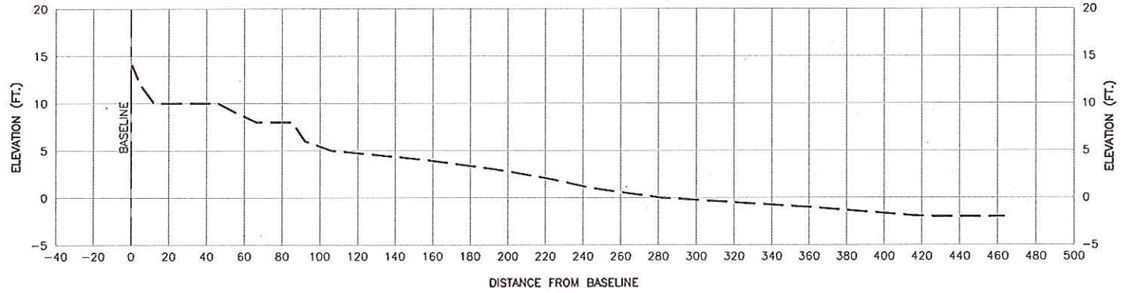
STA. 275+58



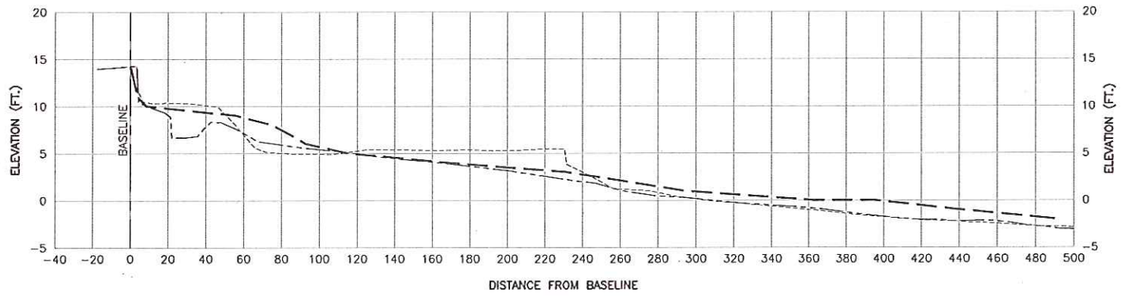
STA. 290+46



STA. 288+96



STA. 286+96



STA. 284+96

LEGEND:

---------- 2009 SURVEY DATA

——— 2010 SURVEY DATA

— — — 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS · REGISTERED · GEORGE RUBALCABA · 4229 · PROFESSIONAL · LAND SURVEYOR

6/22/11

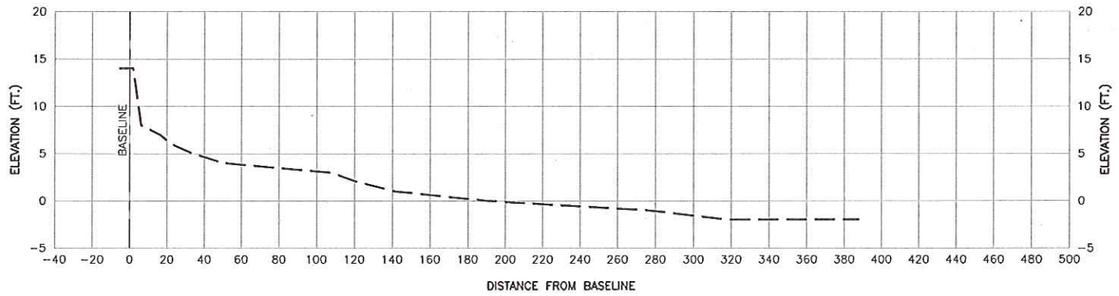
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

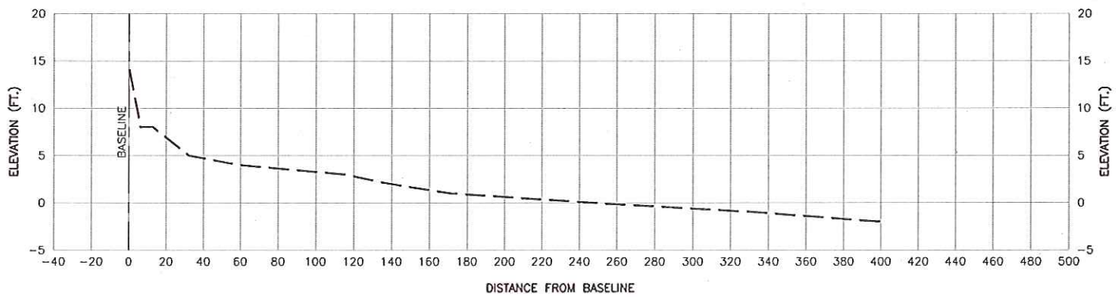
BEACH PROFILES 8

FILENAME	00V-012.dwg
SCALE	1" = 40'

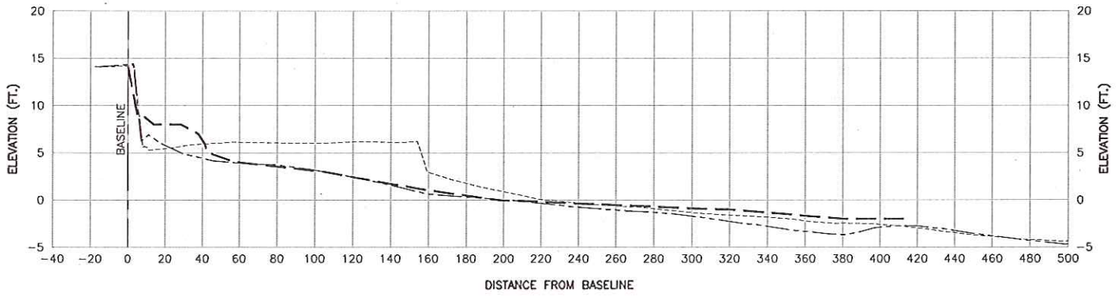
SHEET V-12



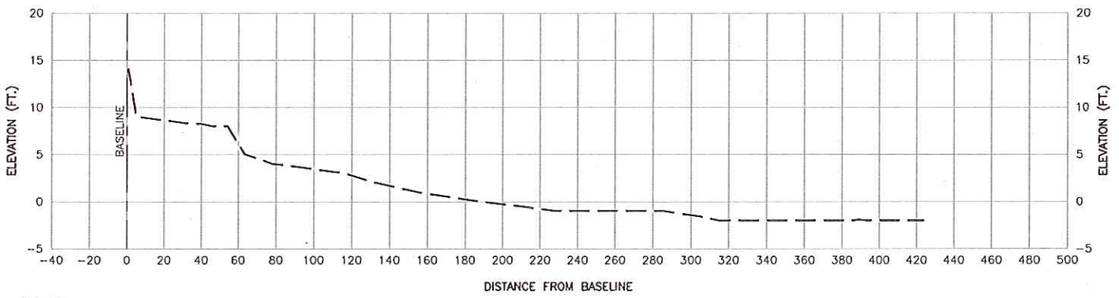
STA. 296+95



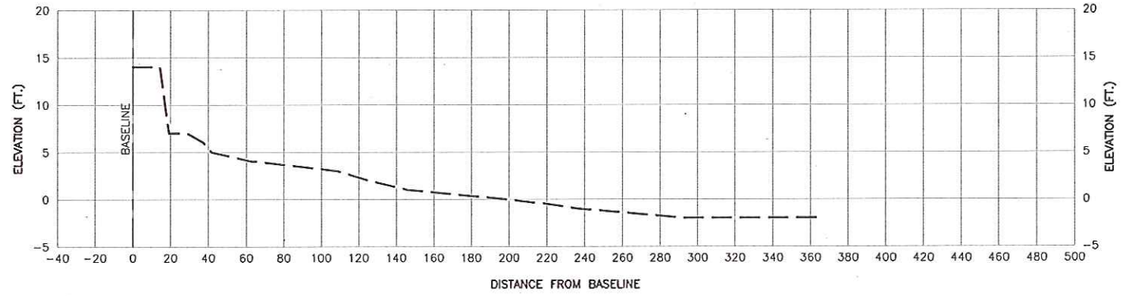
STA. 294+95



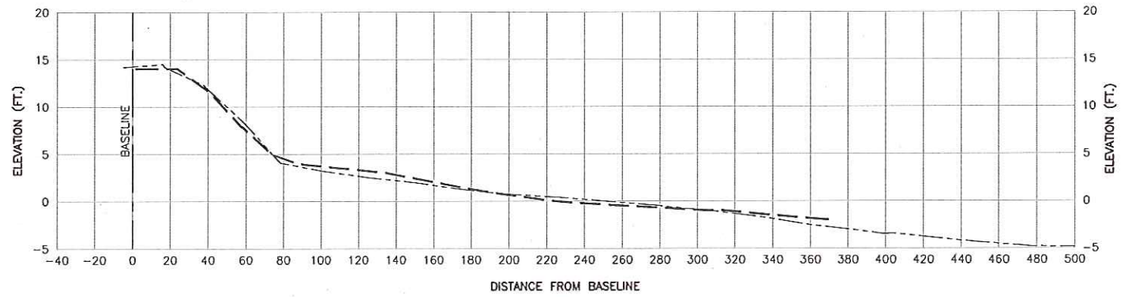
STA. 292+95



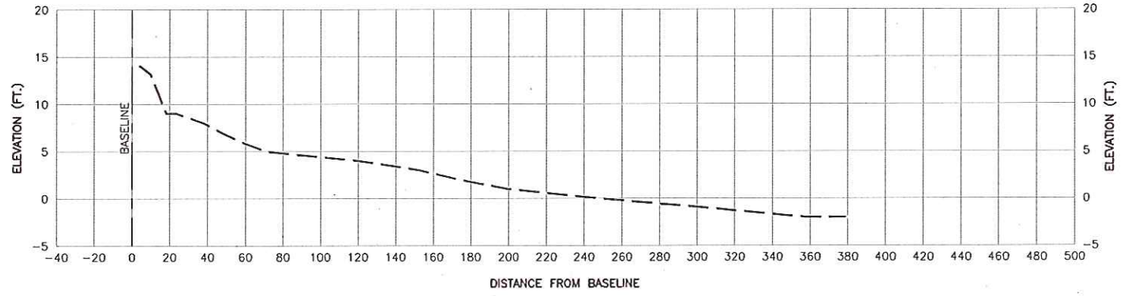
STA. 291+25



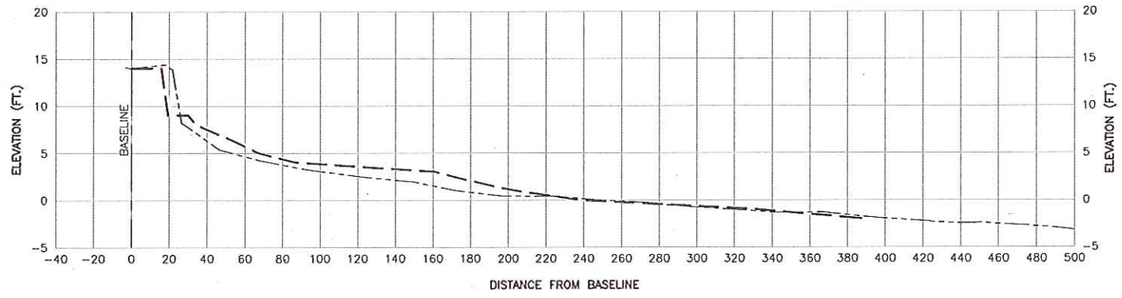
STA. 309+35



STA. 307+35



STA. 304+61



STA. 302+11

LEGEND:

---------- 2009 SURVEY DATA

——— 2010 SURVEY DATA

— — — 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS — REGISTERED — GEORGE RUBALCABA — 4229 — PROFESSIONAL — SURVEYOR

6/27/2011

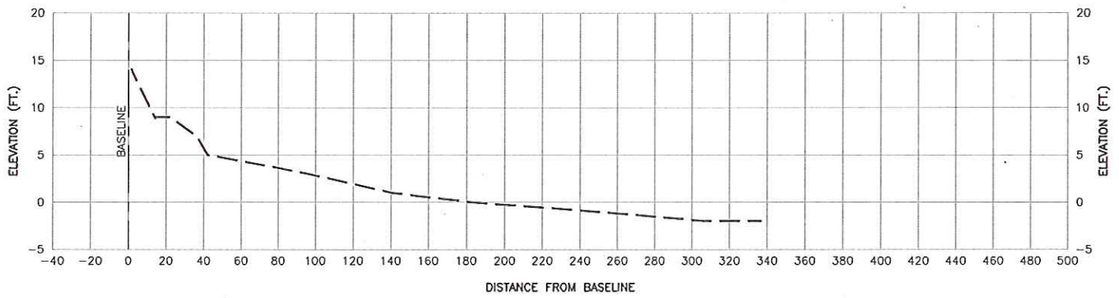
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

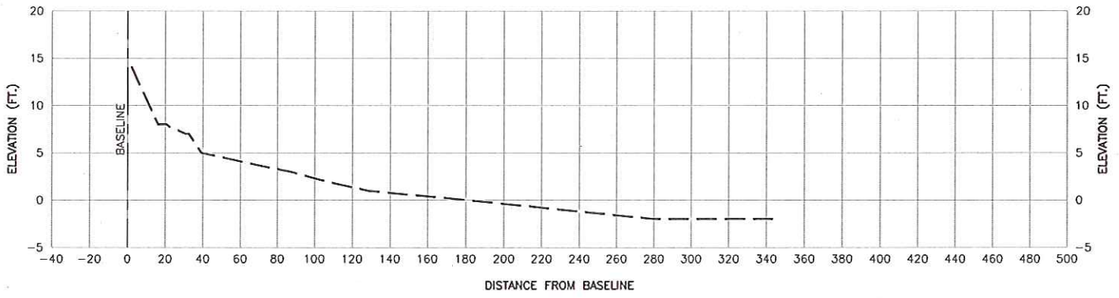
BEACH PROFILES 9

FILENAME	00V-013.dwg
SCALE	1" = 40'

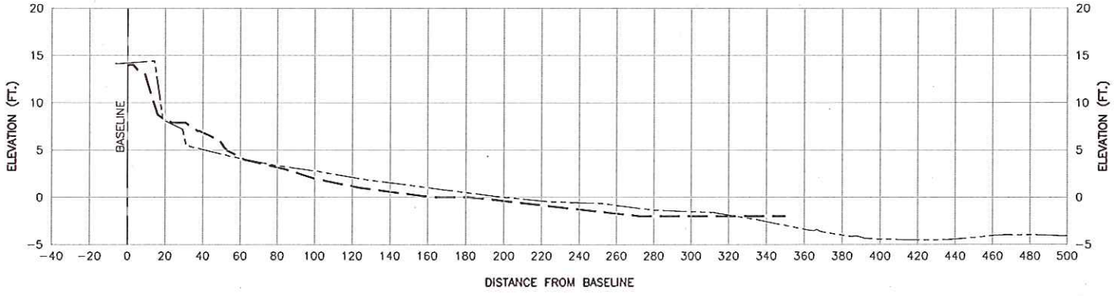
SHEET V-13



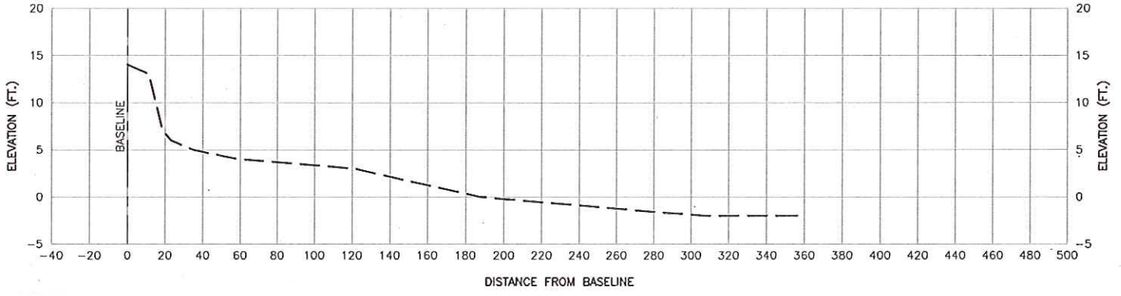
STA. 317+40



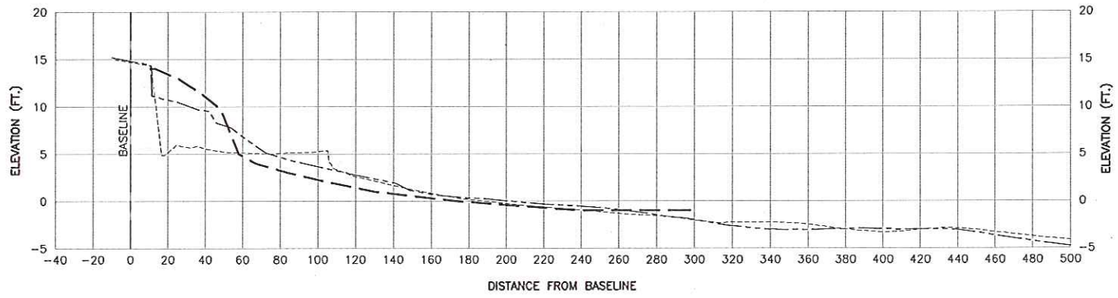
STA. 315+38



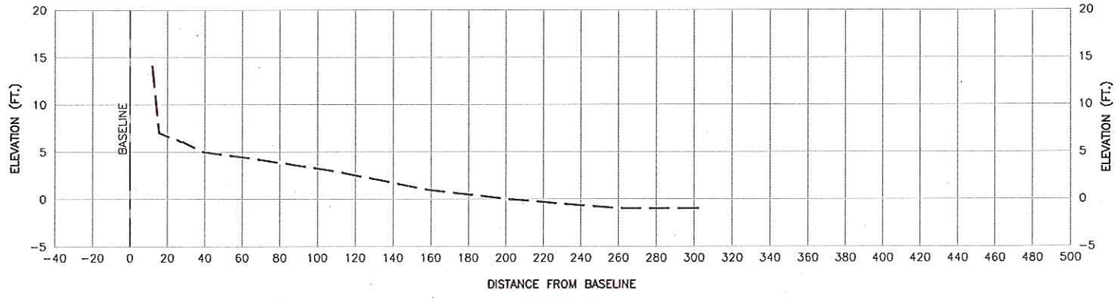
STA. 313+38



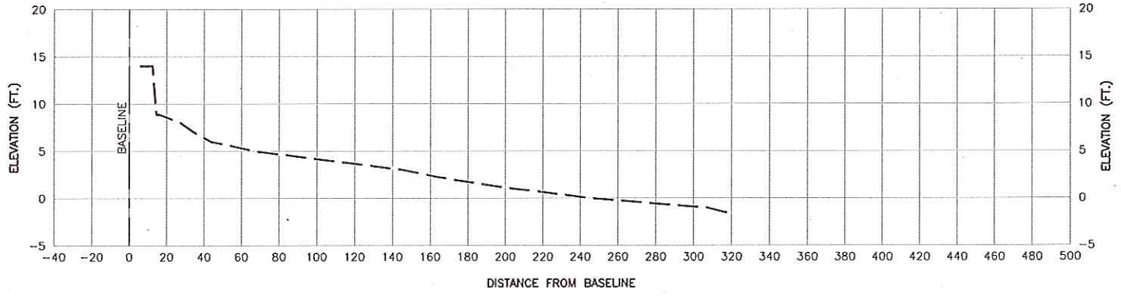
STA. 311+38



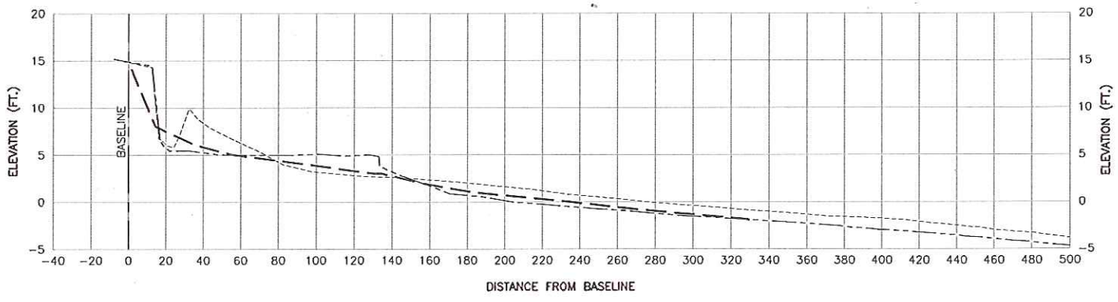
STA. 326+42



STA. 323+92



STA. 321+42



STA. 319+40

LEGEND:

---------- 2009 SURVEY DATA

———— 2010 SURVEY DATA

— — — 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS · REGISTERED · GEORGE RUBALCABA 4229 PROFESSIONAL SURVEYOR

6/27/11

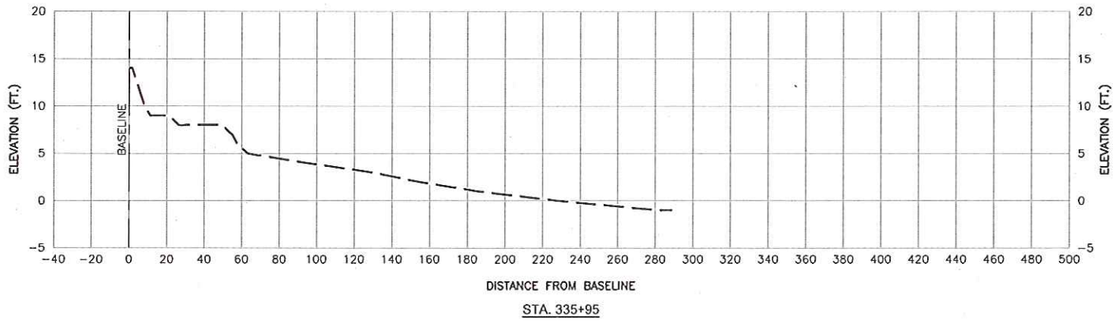
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

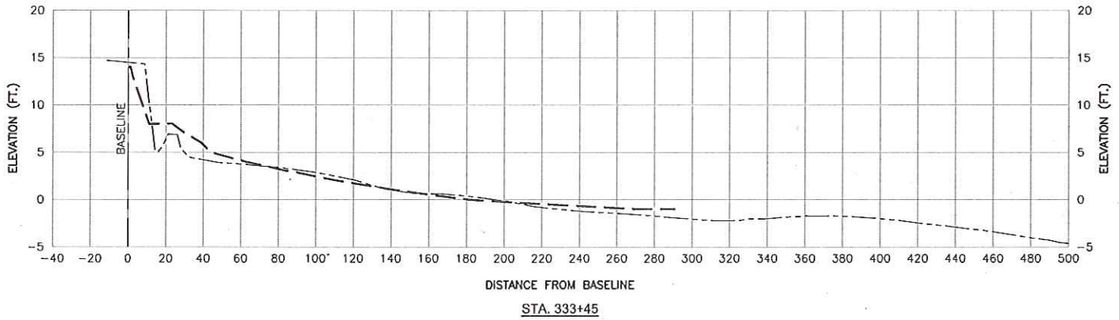
BEACH PROFILES 10

FILENAME	00V-014.dwg
SCALE	1" = 40'

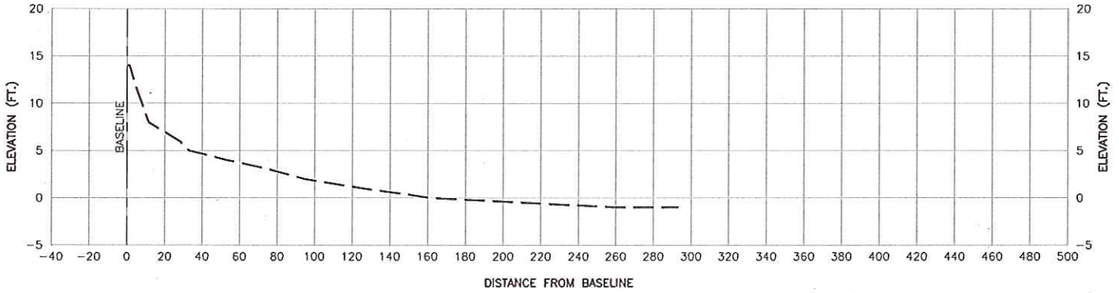
SHEET V-14



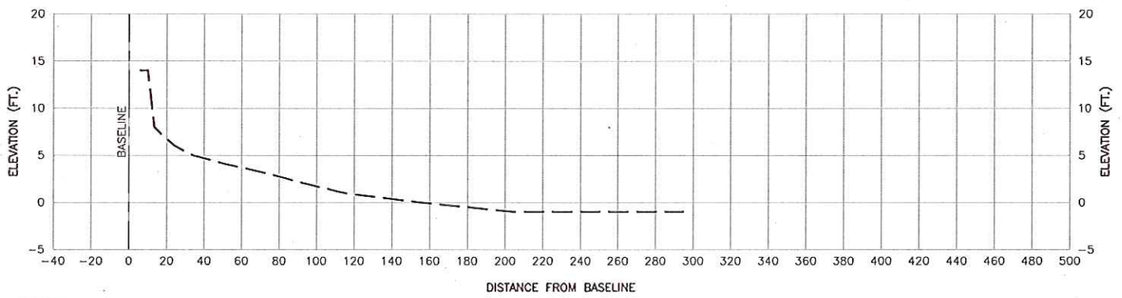
STA. 335+95



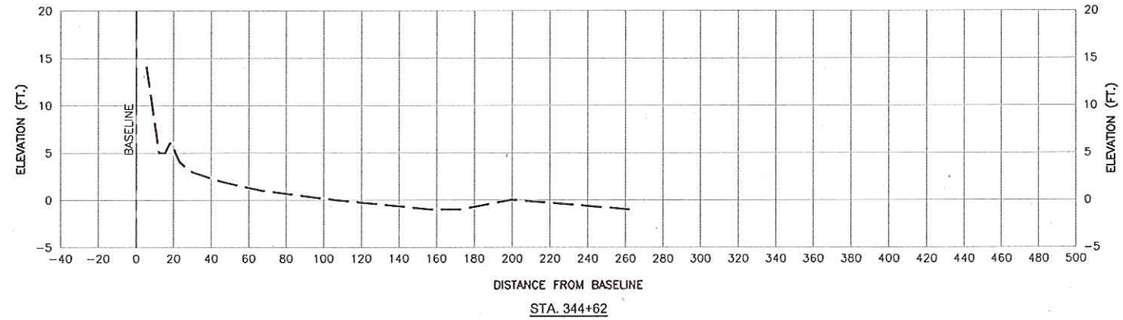
STA. 333+45



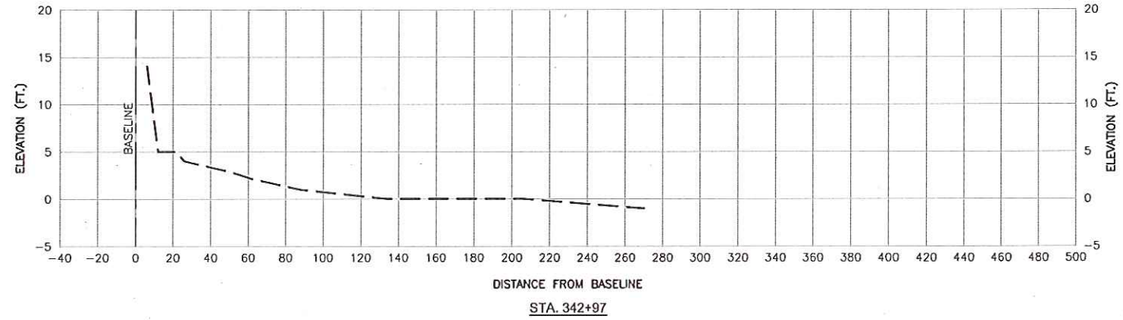
STA. 330+95



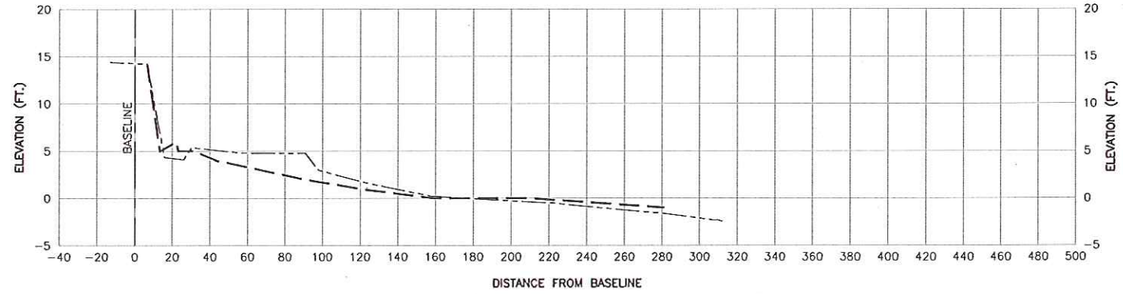
STA. 328+92



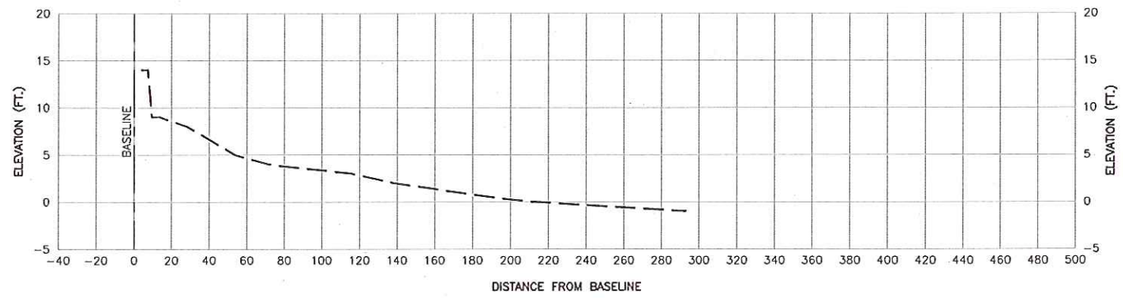
STA. 344+62



STA. 342+97



STA. 340+47



STA. 337+97

LEGEND:

- 2009 SURVEY DATA
- 2010 SURVEY DATA
- 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR

HDR Engineering Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

PROJECT MANAGER	R. MCPHERSON
SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS REGISTERED GEORGE RUBALCABA 4229 PROFESSIONAL LAND SURVEYOR

6/27/11

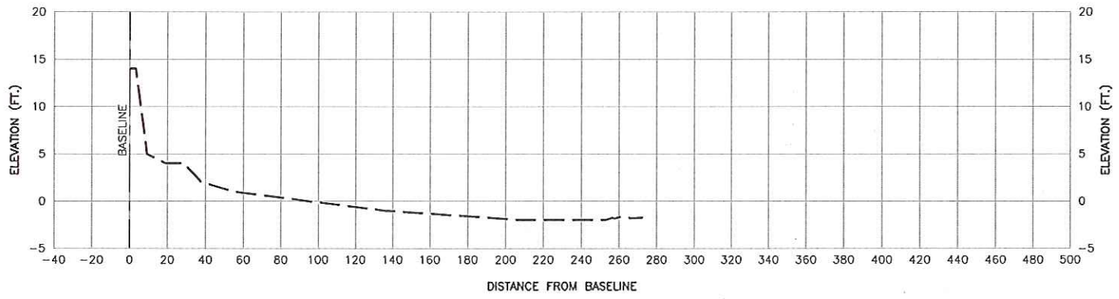
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

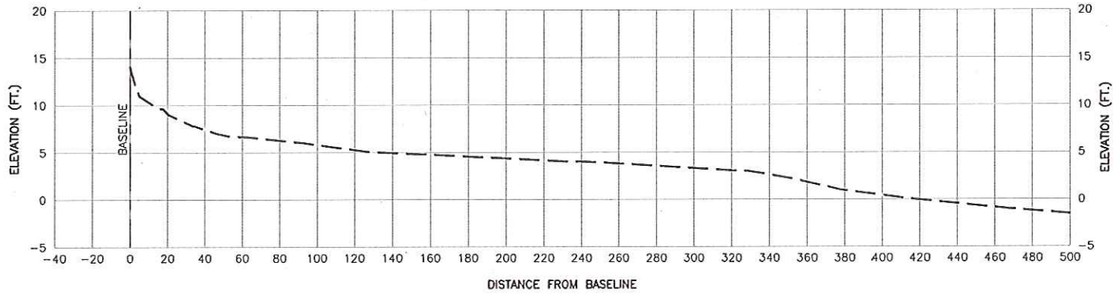
BEACH PROFILES 11

FILENAME	00V-015.dwg
SCALE	1" = 40'

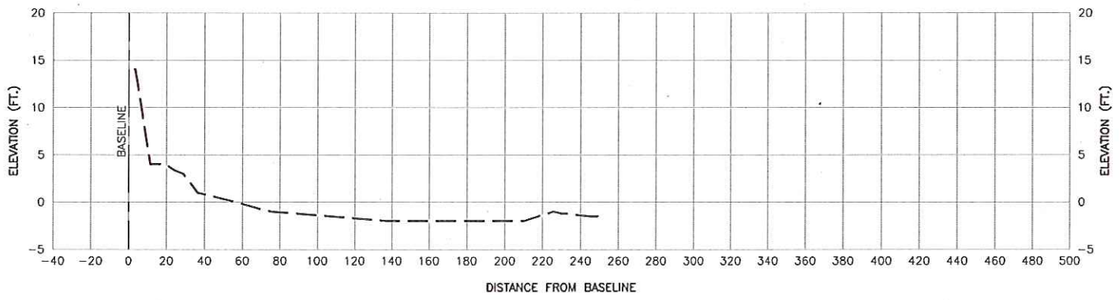
SHEET V-15



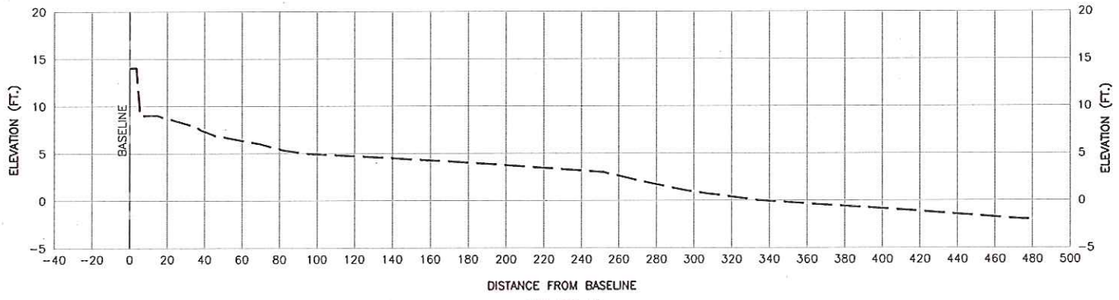
STA. 354+19



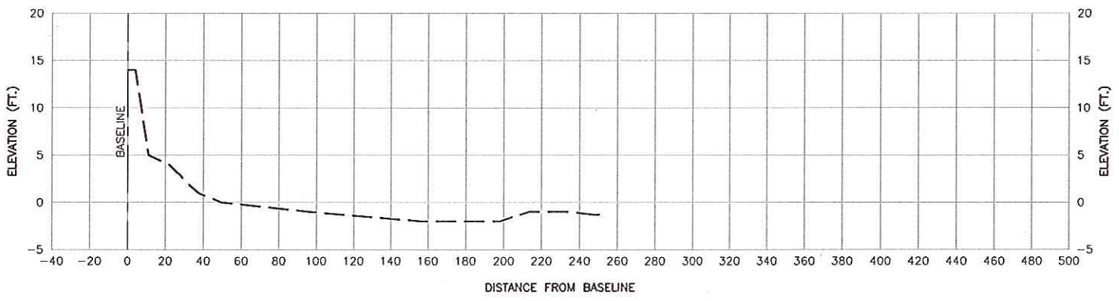
STA. 364+06



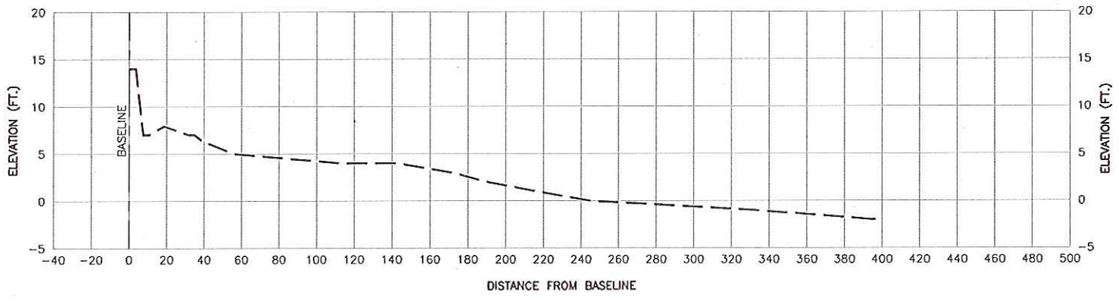
STA. 351+69



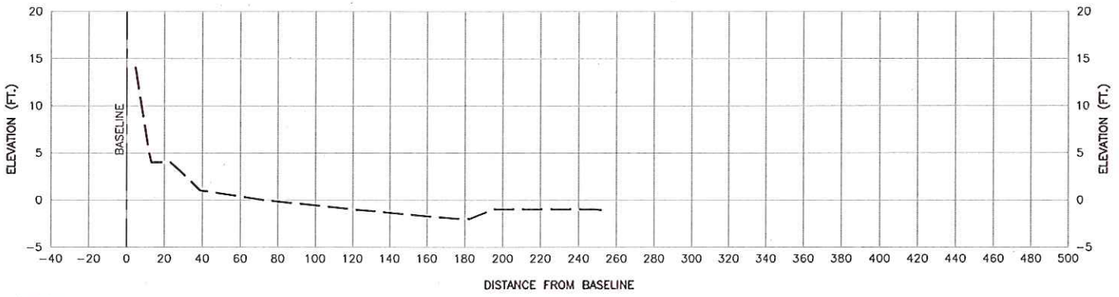
STA. 361+56



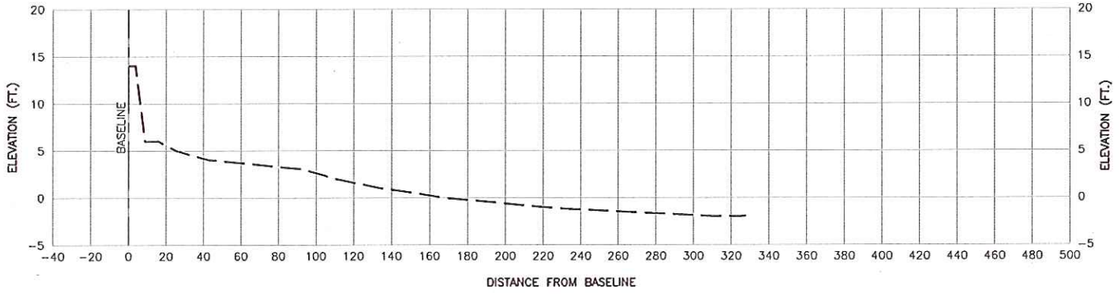
STA. 349+62



STA. 359+06



STA. 347+12



STA. 356+69

LEGEND:

---------- 2009 SURVEY DATA

——— – ——— 2010 SURVEY DATA

— — — 2011 SURVEY DATA

PRINTED HALF-SIZE

HDR

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
0	06/22/11	ISSUED TO CLIENT

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SURVEY MANAGER	G. RUBALCABA
DRAWN BY	E. CONTRERAS
PROJECT NUMBER	161792

STATE OF TEXAS · REGISTERED · GEORGE RUBALCABA · 4229 · PROFESSIONAL LAND SURVEYOR

6/27/11

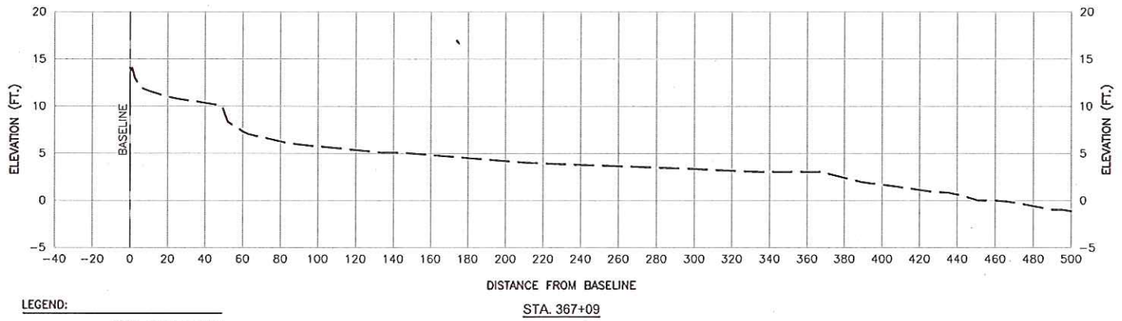
GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

BEACH PROFILES 12

FILENAME	00V-016.dwg
SCALE	1" = 40'

SHEET V-16



PRINTED HALF-SIZE

HDR Engineering, Inc.

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STATE OF TEXAS REGISTERED GEORGE RUBALCABA 4228 PROFESSIONAL LAND SURVEYOR

6/22/11

GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

BEACH PROFILES 13

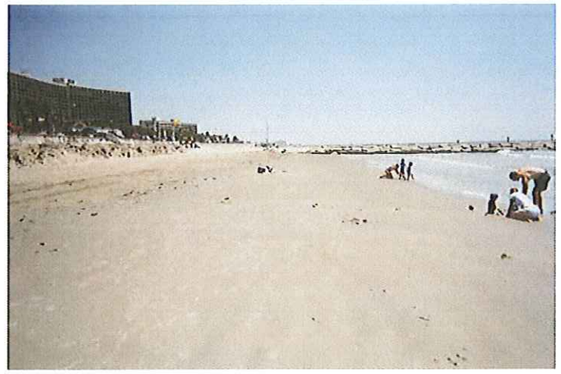
FILENAME	00V-017.dwg
SCALE	1" = 40'

SHEET V-17

STA. 170+62

STA. 174+06

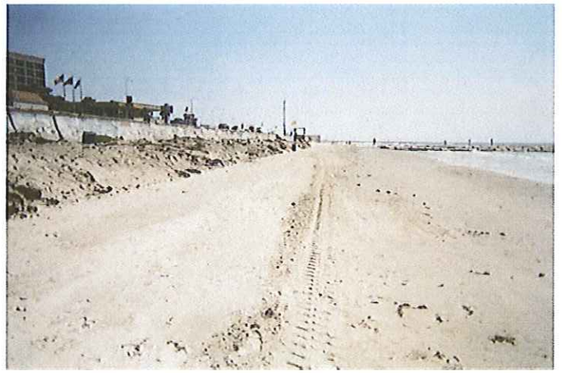
STA. 178+56



STA. 183+04

STA. 186+53

STA. 192+03



STA. 196+11

STA. 201+45

STA. 207+95

STA. 214+91

STA. 224+46

STA. 230+96

PRINTED HALF-SIZE

HDR Engineering, Inc.

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PROJECT NUMBER	161792

STATE OF TEXAS · REGISTERED · GEORGE RUBALCABA · 4229 · PROFESSIONAL LAND SURVEYOR

6/22/11

GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

BEACH PHOTOGRAPHS 1

FILENAME	00V-018.dwg
SCALE	

SHEET V-18

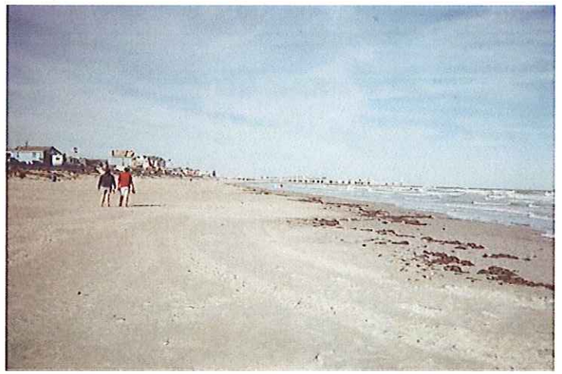
STA. 237+49

STA. 242+30

STA. 248+04

STA. 254+09

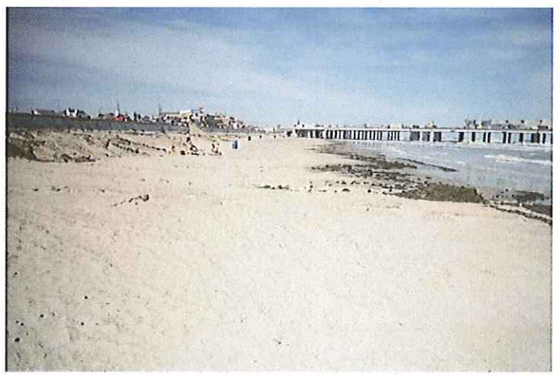
STA. 263+60



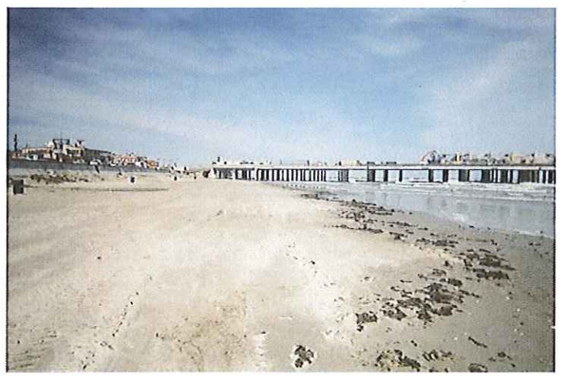
STA. 268+58

STA. 275+58

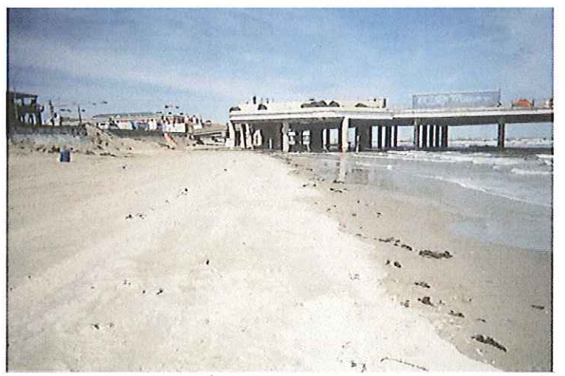
STA. 282+96



STA. 288+96



STA. 291+25



STA. 296+95

STA. 309+35

PRINTED HALF-SIZE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
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PROJECT NUMBER	161792

STATE OF TEXAS REGISTERED GEORGE RUBALCABA 4228 PROFESSIONAL LAND SURVEYOR

6/22/11

GALVESTON SEAWALL BEACH MONITORING

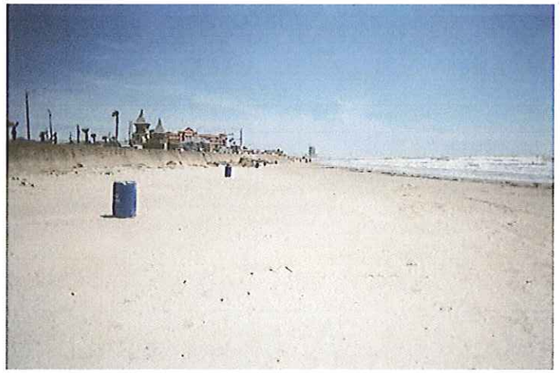
PARK BOARD OF TRUSTEES

BEACH PHOTOGRAPHS 2

FILENAME	00V-019.dwg
SCALE	

SHEET V-19

STA. 315+38



STA. 321+42

STA. 328+92

STA. 337+97

STA. 344+62

STA. 351+69

STA. 356+69

STA. 364+06

PRINTED HALF-SIZE

HDR

HDR Engineering, Inc.

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STATE OF TEXAS · REGISTERED · GEORGE RUBALCABA · NO. 4239 · PROFESSIONAL LAND SURVEYOR

6/22/11

GALVESTON SEAWALL BEACH MONITORING

PARK BOARD OF TRUSTEES

BEACH PHOTOGRAPHS 3

FILENAME	00V-020.dwg
SCALE	

SHEET V-20