
LISTING OF INPUT DATA

T1 TOPSAIL BEACH PENDER CO. NORTH CAROLINA 9/86 TRANSECT 3
T2 BEACH PROFILE-COE MAP 8103/OFFSHORE PRO USGS QUAD NOAA CH 11541

PBP SLOPE FLAT OFFSHORE ONSHORE
ELEVATION FACTOR CL ANGLE CL ANGLE
J1 -2.000 -99.000 6.000 32.000 .000 .000 .000 .000 .000 .000

TRANSECT NO. OF PBP STILL TIDE SMALLEST
NO. GR POINTS STATION WATER EL ELEVATION LATITUDE S-0.97 TRACE
X1 3.000 39.000 -150.000 12.900 1.000 34.220 1.000 1.000 .000 .000

RADIUS TO SEDIMENT F-G,E F-M TRANS END OF 10-YEAR WHAFIS NGVD-
MAX WIND DIAMETER .800 .900 SPEED EROSION STILL EL OPTION MSL
X2 28.750 .400 11.500 770.000 6.300 1.000 -1.500 .000

	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-30.000	-2080.000	-25.000	-1580.000	-21.500	-1320.000	-18.000	-1060.000	-15.000	-905.000
GR	-12.000	-750.000	-9.000	-600.000	-6.000	-450.000	-3.000	-225.000	-1.500	-150.000
GR	.000	.000	2.000	20.000	4.000	60.000	6.000	90.000	8.000	100.000
GR	10.000	118.000	12.000	135.000	14.000	145.000	16.000	158.000	18.000	163.000
GR	20.000	170.000	22.000	182.000	23.000	190.000	22.000	195.000	20.000	207.000
GR	18.000	215.000	16.000	216.000	14.000	222.000	12.000	238.000	10.000	240.000
GR	8.000	290.000	6.000	450.000	4.000	450.000	3.800	580.000	4.000	640.000
GR	4.000	715.000	2.000	770.000	1.000	780.000	.000	790.000		

LISTING OF OUTPUT

***** TRANSECT NUMBER 3.000 ***** DUNE EROSION ANALYSIS

STILL WATER ELEVATION= 12.900 NGVD PIVOT ELEVATION= -2.000 MSL
 SLOPE FLATENING FACTOR= 2.108 CLOSURE DEPTH= -14.116 NGVD

DEPOSITION AREA = 2382.258
 EROSION AREA = 2382.346

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-30.000	-2080.000	-25.000	-1580.000	-21.500	-1320.000	-18.000	-1060.000	-15.612	-936.630
-15.000	-905.000	-7.485	-859.309	-6.482	-750.000	-5.058	-600.000	-3.635	-450.000
-2.212	-225.000	-1.500	-150.000	-.788	.000	.161	20.000	1.109	60.000
2.058	90.000	3.007	100.000	3.956	118.000	4.905	135.000	5.354	145.000
6.803	158.000	7.752	163.000	8.701	170.000	9.649	182.000	10.124	190.000
9.649	195.000	8.701	207.000	7.752	215.000	6.803	216.000	5.854	222.000
4.905	238.000	3.956	240.000	3.007	290.000	2.250	401.733	4.039	404.597
6.311	408.232	6.271	411.060	6.179	417.448	6.089	423.761	6.000	430.000
5.456	435.438	4.000	450.000	3.800	580.000	4.000	640.000	4.000	715.000
2.000	770.000	1.000	780.000	.000	790.000				

LISTING OF INPUT DATA

T1 TOPSAIL BEACH, PENDER CO. NORTH CAROLINA 9/86 TRANSECT 1
T2 BEACH PROFILE-COE MAP 8163/OFFSHORE PRO USGS QUAD NOAA CH 11541

PBP SLOPE FLAT OFFSHORE ONSHORE
ELEVATION FACTOR CL ANGLE CL ANGLE
J1 -2.000 -99.000 6.000 32.000 .000 .000 .000 .000 .000 .000

TRANSECT NO. OF PBP STILL TIDE SMALLEST
NO. GR POINTS STATION WATER EL ELEVATION LATITUDE S-O.97 TRACE
X1 1.000 35.000 -123.500 10.300 1.000 34.450 1.000 1.000 .000 .000

RADIUS TO SEDIMENT F-G,E F-M TRANS END OF 10-YEAR WHAFIS NGVD-
MAX WIND DIAMETER .800 .900 SPEED EROSION STILL EL OPTION MSL
X2 28.750 .400 .800 .900 11.500 710.000 6.300 1.000 -1.500 .000

	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-30.000	-2090.000	-26.000	-1560.000	-18.000	-1020.000	-15.000	-860.000	-12.000	-700.000
GR	-9.000	-555.000	-6.000	-370.000	-3.000	-185.000	-1.500	-123.500	.000	.000
GR	2.000	40.000	4.000	75.000	6.000	95.000	8.000	125.000	10.000	130.000
GR	20.000	170.000	22.100	190.000	20.000	195.000	13.000	200.000	16.000	210.000
GR	14.000	212.000	12.000	280.000	10.000	300.000	8.000	310.000	8.000	360.000
GR	10.000	410.000	12.000	455.000	12.000	458.000	10.000	485.000	8.000	503.000
GR	6.000	595.000	4.000	625.000	2.000	710.000	1.000	725.000	.000	740.000

ONSHORE SEGMENT OF TRANSECT
 FROM PRE-STORM ZERO NGVD.
 TRANSECT NO. 1.000 "

PRE-STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
.000	.000	2.000	40.000	4.000	75.000	8.000	95.000	8.000	125.000
10.000	150.000	20.000	170.000	22.000	190.000	20.000	195.000	18.000	200.000
18.000	210.000	14.000	212.000	12.000	280.000	10.000	300.000	8.000	310.000
8.000	346.519	8.000	352.012	8.000	354.598	8.000	360.000	8.341	368.535
10.000	410.000	12.000	435.000	12.000	458.000	10.000	485.000	8.000	503.000
6.000	595.000	4.000	625.000	2.000	710.000	1.000	725.000	.000	740.000

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-0.788	.000	.161	40.000	1.110	75.000	2.059	95.000	3.008	125.000
3.957	150.000	8.702	170.000	9.698	190.000	8.702	195.000	7.753	200.000
6.804	210.000	5.855	212.000	4.906	280.000	3.957	300.000	3.008	310.000
3.008	346.519	6.440	352.012	8.000	354.593	8.000	360.000	8.341	368.535
10.000	410.000	12.000	435.000	12.000	458.000	10.000	485.000	8.000	503.000
3.000	595.000	4.000	625.000	2.000	710.000	1.000	725.000	.000	740.000

IE	END STATION .000	END ELEVATION - .800	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.300	SURGE ELEV 100-YEAR 10.300	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
UF	END STATION 33.200	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	1.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 40.000	END ELEVATION .200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 75.000	END ELEVATION 1.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 95.000	END ELEVATION 2.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 125.000	END ELEVATION 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 150.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 170.000	END ELEVATION 8.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 190.000	END ELEVATION 9.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 195.000	END ELEVATION 8.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 200.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 210.000	END ELEVATION 8.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

IF	END STATION 272.000	END ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 280.000	END ELEVATION 4.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 300.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 310.000	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 346.500	END ELEVATION 5.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 413.700	END ELEVATION 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	END STATION 480.900	END ELEVATION 10.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 485.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 503.000	END ELEVATION 8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 595.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 625.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 710.000	END ELEVATION 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

-----END OF TRANSECT-----

PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IF	.00	15.92
OF	33.20	15.92
IF	40.00	15.81
IF	75.00	15.32
IF	95.00	14.78
IF	123.00	14.29
IF	130.00	13.74
IF	170.00	11.17
IF	190.00	10.63
IF	195.00	10.63
IF	200.00	10.63
IF	210.00	10.64
IF	212.00	10.64
IF	280.00	10.72
IF	300.00	10.75
IF	310.00	10.77
IF	346.50	10.84
IF	413.70	10.30
AS	480.90	10.30
IF	485.00	10.30
IF	503.00	10.31
IF	595.00	10.38
IF	625.00	10.42
IF	710.00	10.58

PART 3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
 BETWEEN 413.70 AND 480.90

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

PART 4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART 5 LOCATION OF V ZONES

STATION OF GUTTER LOCATION OF ZONE

150.88 WINDWARD

PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

.00	15.92		
		V12 EL=16	60
62.41	15.50		
		V12 EL=15	60
111.92	14.50		
		V12 EL=14	60
133.74	13.50		
		V12 EL=13	60
149.33	12.50		
		V12 EL=12	60
150.88	12.40		
		A 9 EL=12	45
164.91	11.50		
		A 9 EL=11	45
388.59	10.50		
		A 9 EL=10	45
413.70	10.30		
480.90	10.30		
		A 9 EL=10	45
667.10	10.50		

710.00 10.58

ZONE TERMINATED AT END OF TRANSECT

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

LISTING OF INPUT DATA

T1 TOPSAIL BEACH PENDER CO. NORTH CAROLINA 9/86 TRANSECT 3
T2 BEACH PROFILE-COE MAP 8163/OFFSHORE PRO USGS QUAD NOAA CH 11541

J1	PBP ELEVATION	SLOPE FLAT FACTOR	OFFSHORE CL ANGLE	ONSHORE CL ANGLE						
	-2.000	-99.000	6.000	32.000	.000	.000	.000	.000	.000	.000
X1	TRANSECT NO.	NO. OF GR POINTS	PBP STATION	STILL WATER EL	TIDE ELEVATION	LATITUDE	SMALLEST S-0.97	TRACE		
	3.000	39.000	-150.000	10.300	1.000	34.220	1.000	1.000	.000	.000
X2	RADIUS TO MAX WIND	SEDIMENT DIAMETER	F-G/E	F-M	TRANS SPEED	END OF EROSION	10-YEAR STILL EL	WHAFIS OPTION	NGVD-MSL	
	28.750	.400	.800	.900	11.500	770.000	6.300	1.000	-.500	.000

GR	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-30.000	-2080.000	-25.000	-1580.000	-21.500	-1320.000	-18.000	-1060.000	-15.000	-905.000
GR	-12.000	-750.000	-9.000	-600.000	-6.000	-450.000	-3.000	-225.000	-1.500	-150.000
GR	.000	.000	2.000	20.000	4.000	60.000	6.000	90.000	8.000	100.000
GR	10.000	116.000	12.000	135.000	14.000	145.000	16.000	158.000	18.000	163.000
GR	20.000	170.000	22.000	182.000	23.000	190.000	22.000	195.000	20.000	207.000
GR	15.000	215.000	16.000	216.000	14.000	222.000	12.000	238.000	10.000	240.000
GR	8.000	290.000	6.000	430.000	4.000	450.000	3.800	580.000	4.000	640.000
GR	4.000	715.000	2.000	770.000	1.000	780.000	.000	790.000		

LISTING OF OUTPUT

***** TRANSECT NUMBER 3.000 ***** _DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD PIVOT ELEVATION= -2.000 MSL
 SLOPE FLATENING FACTOR= 2.108 CLOSURE DEPTH= -12.999 NGVD

DEPOSITION AREA = 2077.904
 EROSION AREA = 2077.565

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-30.000	-2080.000	-25.000	-1580.000	-21.500	-1320.000	-18.000	-1060.000	-15.000	-905.000
-14.362	-872.058	-6.956	-801.586	-6.482	-750.000	-5.058	-600.000	-3.635	-450.000
-2.212	-225.000	-1.500	-150.000	-.788	.000	.761	20.000	1.110	60.000
2.058	90.000	3.007	100.000	3.956	118.000	4.905	135.000	5.854	145.000
6.803	158.000	7.752	163.000	8.701	170.000	9.650	182.000	10.124	190.000
9.650	195.000	8.701	207.000	7.752	215.000	6.803	216.000	5.854	222.000
4.905	238.000	3.956	240.000	3.007	290.000	2.723	331.899	5.024	335.581
7.297	339.219	7.245	342.856	7.142	350.044	7.041	357.149	6.940	364.170
6.841	371.108	6.743	377.965	6.647	384.742	6.551	391.438	6.456	398.057
6.363	404.597	6.277	411.061	6.179	417.449	6.089	423.761	6.000	430.000
5.456	455.458	4.000	450.000	3.800	580.000	4.000	640.000	4.000	715.000
2.000	770.000	1.000	780.000	.000	790.000				

1E	END STATION .000	END ELEVATION -.300	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.300	SURGE ELEV 100-YEAR 10.300	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
0F	END STATION 16.600	END ELEVATION .000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	1.000	.000	.000	.000	AVERAGE A-ZONES .000
1F	END STATION 20.000	END ELEVATION .200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1F	END STATION 60.000	END ELEVATION 1.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1F	END STATION 90.000	END ELEVATION 2.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1F	END STATION 100.000	END ELEVATION 3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1F	END STATION 118.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1F	END STATION 135.000	END ELEVATION 4.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1F	END STATION 145.000	END ELEVATION 5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1F	END STATION 158.000	END ELEVATION 6.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1F	END STATION 163.000	END ELEVATION 7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
1F	END STATION 170.000	END ELEVATION 8.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	182.000	9.600	.000	.000	.000	.000	.000	.000	.000	.000
IF	190.000	10.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	195.000	9.600	.000	.000	.000	.000	.000	.000	.000	.000
IF	207.000	8.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	215.000	7.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	216.000	6.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	222.000	5.900	.000	.000	.000	.000	.000	.000	.000	.000
IF	238.000	4.900	.000	.000	.000	.000	.000	.000	.000	.000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	290.000	3.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	331.900	2.700	.000	.000	.000	.000	.000	.000	.000	.000
IF	335.600	5.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	339.200	7.300	.000	.000	.000	.000	.000	.000	.000	.000

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44

IF	END STATION 342.900	END ELEVATION 7.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 350.000	END ELEVATION 7.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 357.100	END ELEVATION 7.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 364.200	END ELEVATION 6.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 371.100	END ELEVATION 6.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 378.000	END ELEVATION 6.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 384.700	END ELEVATION 6.600	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 391.400	END ELEVATION 6.600	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 398.100	END ELEVATION 6.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 404.600	END ELEVATION 6.400	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 411.100	END ELEVATION 6.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 417.400	END ELEVATION 6.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
	END	END	NEW SURGE	NEW SURGE						AVERAGE

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

IF	STATION 423.800	ELEVATION 6.100	10-YEAR SURGE .000	100-YEAR SURGE .000	.000	.000	.000	.000	.000	A-ZONES .000
IF	END STATION 430.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 435.400	END ELEVATION 5.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 450.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 580.000	END ELEVATION 3.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 640.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 715.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 770.000	END ELEVATION 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

-----END OF TRANSECT-----

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART 2 WAVE HEIGHTS AND ELEVATIONS

LOCATION WAVE HEIGHT WAVE ELEVATION

LINE NO.	LOCATION	WAVE HEIGHT	WAVE ELEVATION
9	IE	.00	8.03
10			15.92
11	OF	16.60	8.03
12			15.92
13	IF	20.00	7.88
14			15.81
15	IF	60.00	7.18
16			15.32
17	IF	90.00	6.40
18			14.78
19	IF	100.00	5.69
20			14.29
21	IF	118.00	4.91
22			13.74
23	IF	135.00	4.21
24			13.25
25	IF	145.00	3.43
26			12.70
27	IF	158.00	2.73
28			12.21
29	IF	163.00	1.95
30			11.67
31	IF	170.00	1.25
32			11.17
33	IF	182.00	.55
34			10.68
35	IF	190.00	.16
36			10.41
37	IF	195.00	.16
38			10.41
39	IF	207.00	.16
40			10.41
41	IF	215.00	.17
42			10.42
43	IF	216.00	.17
44			10.42
45	IF	222.00	.18
46			10.42
47	IF	238.00	.20
48			10.44
49	IF	240.00	.21
50			10.45
51	IF	290.00	.33
52			10.53
53	IF	331.90	.44
54			10.61
55	IF	335.60	.45
56			10.62
57	IF	339.20	.46
58			10.62
59	IF	342.90	.46
60			10.62
61	IF	350.00	.47
62			10.63
63	IF	357.10	.48
64			10.63

IF	364.20	.49	10.64
IF	371.10	.50	10.65
IF	378.00	.50	10.65
IF	384.70	.51	10.66
IF	391.40	.52	10.67
IF	398.10	.53	10.67
IF	404.60	.54	10.68
IF	411.10	.55	10.68
IF	417.40	.56	10.69
IF	423.80	.57	10.70
IF	430.00	.58	10.70
IF	435.40	.59	10.71
IF	450.00	.62	10.73
IF	580.00	.91	10.94
IF	640.00	1.05	11.04
IF	715.00	1.21	11.14
IF	770.00	1.35	11.25

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 1.35 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES
STATION. 10-YEAR SURGE 100-YEAR SURGE
NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES
STATION OF GUTTER LOCATION OF ZONE
153.00 WINDWARD

PART6 NUMBERED A ZONES AND V ZONES
STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

TR # 2

	.00	15.92
	45.61	15.50
	195.64	14.50
	126.30	13.50
	150.35	12.50
	153.00	12.40
	165.35	11.50
	187.34	10.50
	271.36	10.50
	770.00	11.25

V12
EL=12

V12	EL=16	60
V12	EL=15	60
V12	EL=14	60
V12	EL=13	60
V12	EL=12	60
A 9	EL=12	45
A 9	EL=11	45
A 9	EL=10	45
A 9	EL=11	45

ZONE TERMINATED AT END OF TRANSECT

LISTING OF INPUT DATA

T1 TOPSAIL BEACH, PENDER CO. NORTH CAROLINA 9/86 TRANSECT 1
T2 BEACH PROFILE-COE MAP 8163/OFFSHORE PRO USGS QUAD NOAA CH 11541

PBP SLOPE FLAT OFFSHORE ONSHORE
ELEVATION FACTOR CL ANGLE CL ANGLE
J1 -2.000 -99.000 6.000 32.000 .000 .000 .000 .000 .000 .000

TRANSECT NO. OF PBP STILL TIDE SMALLEST
NO. GR POINTS STATION WATER EL ELEVATION LATITUDE S-D.97 TRACE
X1 1.000 35.000 -123.500 12.900 1.000 34.450 1.000 1.000 .000 .000

RADIUS TO SEDIMENT F-G/E F-M TRANS END OF 10-YEAR WHAFIS NGVD-
MAX WIND DIAMETER .800 .900 SPEED EROSION STILL EL OPTION MSL
X2 23.750 .400 11.500 710.000 6.300 1.000 -500 .000

	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
GR	-50.000	-2090.000	-26.000	-1560.000	-18.000	-1020.000	-15.000	-860.000	-12.000	-700.000
GR	-9.000	-535.000	-6.000	-370.000	-3.000	-185.000	-1.500	-123.500	.000	.000
GR	2.000	40.000	4.000	75.000	6.000	95.000	8.000	125.000	10.000	130.000
GR	20.000	170.000	22.100	190.000	20.000	195.000	18.000	200.000	16.000	210.000
GR	14.000	212.000	12.000	280.000	10.000	300.000	8.000	310.000	8.000	360.000
GR	10.000	410.000	12.000	435.000	12.000	458.000	10.000	485.000	8.000	503.000
GR	6.000	595.000	4.000	625.000	2.000	710.000	1.000	725.000	.000	740.000

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

LISTING OF OUTPUT

***** TRANSECT NUMBER 1.000 ***** _DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 12.900 NGVD PIVOT ELEVATION= -2.000 MSL
 SLOPE FLATENING FACTOR= 2.107 CLOSURE DEPTH= -14.104 NGVD

DEPOSITION AREA = 2455.995
 EROSION AREA = 2456.437

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-30.000	-2090.000	-26.000	-1560.000	-18.000	-1020.000	-15.542	-888.926	-15.000	-860.000
-7.481	-812.224	-6.482	-700.000	-5.059	-535.000	-3.635	-370.000	-2.212	-185.000
-1.500	-123.500	-.788	.000	-.161	40.000	1.110	75.000	2.059	95.000
3.008	125.000	3.957	130.000	8.702	170.000	9.698	190.000	8.702	195.000
7.753	200.000	6.804	210.000	5.855	212.000	4.906	230.000	3.957	300.000
3.008	310.000	3.008	360.000	3.862	405.013	6.978	410.000	10.444	415.546
10.887	421.091	12.000	435.000	12.000	458.000	10.000	485.000	8.000	503.000
6.000	595.000	4.000	625.000	2.000	710.000	1.000	725.000	.000	740.000

ONSHORE SEGMENT OF TRANSECT
 FROM PRE-STORM ZERO NGVD.
 TRANSECT NO. 1.000

PRE-STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
.000	.000	2.000	40.000	4.000	75.000	6.000	95.000	8.000	125.000
10.000	130.000	20.000	170.000	22.100	190.000	20.000	195.000	18.000	200.000
16.000	210.000	14.000	212.000	12.000	230.000	10.000	300.000	8.000	310.000
8.000	360.000	9.801	405.013	10.000	410.000	10.444	415.546	10.887	421.091
12.000	435.000	12.000	458.000	10.000	485.000	8.000	503.000	6.000	595.000
4.000	625.000	2.000	710.000	1.000	725.000	.000	740.000		

AFTER STORM TRANSECT:

ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION
-0.788	.000	.161	40.000	1.110	75.000	2.059	95.000	3.008	125.000
3.957	130.000	8.702	170.000	9.698	190.000	3.702	195.000	7.753	200.000
0.804	210.000	5.855	212.000	4.906	230.000	3.957	300.000	3.008	310.000
3.008	360.000	3.862	405.013	6.978	410.000	10.444	415.546	10.887	421.091
12.000	435.000	12.000	458.000	10.000	485.000	8.000	503.000	6.000	595.000
4.000	625.000	2.000	710.000	1.000	725.000	.000	740.000		

*** * TRANSECT NUMBER 1.000 * * * * * _WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

					TRANSECT NO.				
IE	.0	-.8	24.0	6.3	12.9	1.00	1.00		
OF	33.2	.0	.00	.00	.00	.00	.00		
IF	40.0	.2	.00	.00	.00	.00	.00		
IF	75.0	1.1	.00	.00	.00	.00	.00		
IF	95.0	2.1	.00	.00	.00	.00	.00		
IF	125.0	3.0	.00	.00	.00	.00	.00		
IF	150.0	4.0	.00	.00	.00	.00	.00		
IF	170.0	8.7	.00	.00	.00	.00	.00		
IF	190.0	9.7	.00	.00	.00	.00	.00		
IF	195.0	8.7	.00	.00	.00	.00	.00		
IF	200.0	7.8	.00	.00	.00	.00	.00		
IF	210.0	6.2	.00	.00	.00	.00	.00		
IF	212.0	5.9	.00	.00	.00	.00	.00		
IF	230.0	4.9	.00	.00	.00	.00	.00		
IF	300.0	4.0	.00	.00	.00	.00	.00		
IF	310.0	3.0	.00	.00	.00	.00	.00		
IF	360.0	3.0	.00	.00	.00	.00	.00		
IF	405.0	3.9	.00	.00	.00	.00	.00		
IF	410.0	7.0	.00	.00	.00	.00	.00		
IF	415.5	10.4	.00	.00	.00	.00	.00		
IF	421.1	10.9	.00	.00	.00	.00	.00		
IF	435.0	12.0	.00	.00	.00	.00	.00		
IF	458.0	12.0	.00	.00	.00	.00	.00		
IF	485.0	10.0	.00	.00	.00	.00	.00		
IF	503.0	8.0	.00	.00	.00	.00	.00		
IF	595.0	6.0	.00	.00	.00	.00	.00		
IF	625.0	4.0	.00	.00	.00	.00	.00		
IF	710.0	2.0	.00	.00	.00	.00	.00		
ET	1000.0	1000.0	5.0	.0	.0	.0	.0		

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	.000	24.000	6.300	10.300	.000	.000	.000	.000	.000
IF	450.000	6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	450.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	580.000	3.500	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	640.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	715.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	770.000	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	780.000	1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	790.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

-----END OF TRANSECT-----

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE .00	8.03	15.92
IF 430.00	3.35	12.65
IF 450.00	3.35	12.65
IF 580.00	3.35	12.65
IF 640.00	3.35	12.65
IF 715.00	3.35	12.65
IF 770.00	3.36	12.65
IF 780.00	3.36	12.65
IF 790.00	3.36	12.65

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 3.36 WHICH EXCEEDS 0.5.

PART3 LOCATJON OF AREAS ABOVE 100-YEAR SURGE
 NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE

NO SURGE CHANGES IN THIS TRANSECT

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	15.92	A12 EL=16 V12 EL=16	60 60
55.63	15.50	A12 EL=15 V12 EL=15	60 60
186.88	14.50	A12 EL=14 V12 EL=14	60 60

318.14 13.50

A12 EL=13 60
V12 EL=13 60

790.00 12.65

ZONE TERMINATED AT END OF TRANSECT

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IF	.000	.000	24.000	6.300	12.900	.000	.000	.000	.000	.000
IF	185.000	4.700	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	310.000	8.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	360.000	8.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	410.000	10.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	422.000	11.100	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	455.000	12.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	458.000	12.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	477.000	10.600	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	485.000	10.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	503.000	8.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	595.000	6.000	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

IF	END STATION 625.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 9.500	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 710.000	END ELEVATION 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 8.800	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 725.000	END ELEVATION 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 8.700	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 740.000	END ELEVATION 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 8.600	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

-----END OF TRANSECT-----

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE .00	10.06	19.94
IF 185.00	6.40	17.38
IF 310.00	5.04	14.53
IF 360.00	2.73	13.61
IF 410.00	.94	12.01
IF 422.00	.00	11.15
AS 435.00	-.78	12.00
AS 458.00	-1.01	12.00
AS 477.00	.00	10.60
IF 485.00	.00	10.60
IF 503.00	.01	10.51
IF 595.00	.11	10.13
IF 625.00	.16	9.71
IF 710.00	.35	9.39
IF 725.00	.39	9.02
IF 740.00	.43	8.95

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 422.00 AND 435.00
 BETWEEN 435.00 AND 458.00
 BETWEEN 458.00 AND 477.00

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
310.00	6.30	11.90
360.00	6.30	11.50
410.00	6.30	11.20
422.00	6.30	11.10

455.00	6.30	11.00
458.00	6.30	10.70
477.00	6.30	10.60
503.00	6.30	10.40
595.00	6.30	9.70
625.00	6.30	9.50
710.00	6.30	8.80
725.00	6.30	8.70
740.00	6.30	8.60

PART5 LOCATION OF V ZONES

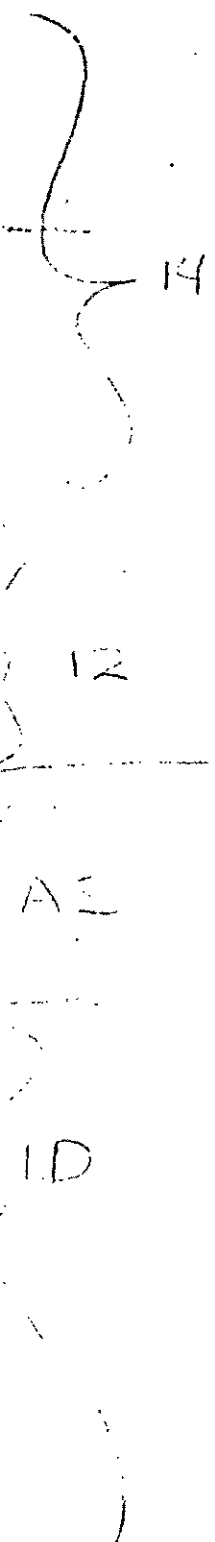
STATION OF GUTTER	LOCATION OF ZONE
316.73	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	19.94	V20 EL=20	100
31.97	19.50	V20 EL=19	100
104.06	18.50	V20 EL=18	100
176.15	17.50	V20 EL=17	100
185.00	17.38	V19 EL=17	95
223.50	16.50	V19 EL=16	95
267.40	15.50	V18 EL=15	90
310.00	14.53		

311.60	14.50
316.73	13.80
360.00	13.61
363.46	13.50
394.59	12.50
410.00	12.01
417.09	11.50
422.00	11.15
435.00	12.00
458.00	12.00
477.00	10.60
485.00	10.60
503.00	10.51
504.80	10.50
595.00	10.13
625.00	9.71

V17	EL=15	85
V17	EL=14	85
A 9	EL=14	45
A 9	EL=14	45
A 9	EL=13	45
A 9	EL=12	45
A 9	EL=12	45
A 9	EL=11	45
A 9	EL=11	45
A 9	EL=11	45
A 9	EL=11	45
A 9	EL=10	45
A 9	EL=10	45
A 9	EL=10	45



1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64

681.84

9.50

A 9 EL= 9

45

710.00

9.39

A 9 EL= 9

45

725.00

9.02

A 9 EL= 9

45

740.00

8.95

ZONE TERMINATED AT END OF TRANSECT

9

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	.000	24.000	6.300	12.900	.000	.000	.000	.000	.000
IF	190.000	2.600	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 12.900	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	430.000	6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 11.100	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	450.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 11.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	580.000	3.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 10.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	640.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 9.700	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	715.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 9.200	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	770.000	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 8.800	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	780.000	1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 8.700	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	790.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR 8.600	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

-----END OF TRANSECT-----

NOTES:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

ADDITIONAL

INFORMATION

2

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE .00	10.06	19.94
IF 190.00	8.05	18.52
IF 430.00	3.98	14.78
IF 450.00	3.98	13.83
IF 580.00	3.98	13.28
IF 640.00	3.98	12.63
IF 715.00	3.98	12.23
IF 770.00	3.98	11.78
IF 780.00	3.98	11.53
IF 790.00	3.98	11.43

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 3.98 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
 NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION	10-YEAR SURGE	100-YEAR SURGE
430.00	6.30	11.10
450.00	6.30	11.00
580.00	6.30	10.00
640.00	6.30	9.70
715.00	6.30	9.20
770.00	6.30	8.80
780.00	6.30	8.70
790.00	6.30	8.60

PART6 NUMBERED A ZONES AND V ZONES
 STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54

.00	19.94	A20 V20	EL=20 EL=20	100 100
59.35	19.50	A19 V19	EL=19 EL=19	95 95
190.00	18.52	A18 V18	EL=19 EL=19	90 90
191.55	18.50	A18 V18	EL=18 EL=18	90 90
255.71	17.50	A18 V18	EL=17 EL=17	90 90
319.90	16.50	A18 V18	EL=16 EL=16	90 90
384.08	15.50	A16 V16	EL=15 EL=15	80 80
430.00	14.78	A15 V15	EL=15 EL=15	75 75
435.99	14.50	A14 V14	EL=14 EL=14	70 70
450.00	13.83	A13 V13	EL=14 EL=14	65 65
529.09	13.50	A12 V12	EL=13 EL=13	60 60
580.00	13.28	A10 V10	EL=13 EL=13	50 50
640.00	12.63			

20
 19
 18
 17
 16
 15
 14
 13
 12
 11
 10
 9
 8
 7
 6
 5
 4
 3
 2
 1

		A 10	EL=13	50
		V 10	EL=13	50
665.24	12.50	-----		
		A 9	EL=12	45
		V 9	EL=12	45
715.00	12.23			
		A 8	EL=12	40
		V 8	EL=12	40
770.00	11.78			
		A 7	EL=12	35
		V 7	EL=12	35
780.00	11.53			
		A 7	EL=12	35
		V 7	EL=12	35
783.47	11.50			
		A 9	EL=11	45
		V 9	EL=11	45
790.00	11.43			

12

ZONE TERMINATED AT END OF TRANSECT

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
IE	.000	- .800	24.000	6.300	12.900	.000	.000	.000	.000	.000
OF	16.600	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	1.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	20.000	.200	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	60.000	1.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	90.000	2.100	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	100.000	3.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	118.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	135.000	4.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	145.000	5.900	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	158.000	6.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	163.000	7.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	170.000	8.700	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						
IF	182.000	9.600	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	190.000	10.100	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	195.000	9.600	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	207.000	8.700	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	215.000	7.800	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	216.000	6.300	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	222.000	5.900	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	238.000	4.900	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	240.000	4.000	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	290.000	3.000	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	401.700	2.200	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	404.600	4.000	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	408.200	6.300	.000	.000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	411.100	6.300	.000	.000	.000	.000	.000	.000	.000	.000
IF	417.400	6.200	.000	.000	.000	.000	.000	.000	.000	.000
IF	423.800	6.100	.000	.000	.000	.000	.000	.000	.000	.000
IF	430.000	6.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	435.400	5.500	.000	.000	.000	.000	.000	.000	.000	.000
IF	450.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	530.000	3.800	.000	.000	.000	.000	.000	.000	.000	.000
IF	640.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	715.000	4.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	770.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000

-----END OF TRANSECT-----

NOTE:
SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

IF	430.00	2.32	14.53
IF	435.40	2.32	14.53
IF	450.00	2.33	14.53
IF	580.00	2.41	14.59
IF	640.00	2.44	14.61
IF	715.00	2.48	14.63
IF	770.00	2.52	14.66

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 2.52 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
 NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES
 STATION 10-YEAR SURGE 100-YEAR SURGE
 NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES
 STATION OF GUTTER LOCATION OF ZONE
 174.72 WINJWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	19.94		
		V20 EL=20	100
47.20	19.50		
		V20 EL=19	100
96.04	18.50		
		V20 EL=18	100
126.97	17.50		
		V20 EL=17	100
150.87	16.50		

177

165.63 15.50

V20 EL=16 100

174.72 15.00

V20 EL=15 100

187.91 14.50

A16 EL=15 80

385.28 14.50

A16 EL=14 80

770.00 14.66

A16 EL=15 80

ZONE TERMINATED AT END OF TRANSECT

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54

3
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
I=	.000	.000	24.000	6.500	12.900	.000	.000	.000	.000	.000
IF	430.000	6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	450.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	580.000	3.800	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	640.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	715.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	770.000	2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	780.000	1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	790.000	.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

-----END OF TRANSECT-----

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION WAVE HEIGHT WAVE ELEVATION

IE	.00	10.06	19.94
IF	430.00	5.38	16.67
IF	450.00	5.38	16.67
IF	580.00	5.38	16.67
IF	640.00	5.38	16.67
IF	715.00	5.38	16.67
IF	770.00	5.38	16.67
IF	780.00	5.38	16.67
IF	790.00	5.38	16.67

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 5.38 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE
NO SURGE CHANGES IN THIS TRANSECT

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION	FHF
.00	19.94		
		A20 EL=20	100
		V20 EL=20	100
58.20	19.50		
		A20 EL=19	100
		V20 EL=19	100
189.46	18.50		
		A20 EL=18	100
		V20 EL=18	100

320.72 17.50

A20 EL=17 100
V20 EL=17 100

790.00 16.67

ZONE TERMINATED AT END OF TRANSECT

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
 TRANSECT 1 OF THE TOPSAIL STUDY, W/ SET UP & DUNE CUT-OFF.

	185.00	4.7	0	12.9	PART 1 INPUT	0	0	0	0	0
IF										
IE	.000	.000	24.000	6.300	12.900	.000	.000	.000	.000	.000
IF	310.000	8.000	.000	8.000 11.9	.000	.000	.000	.000	.000	.000
IF	360.000	8.000	.000	8.000 11.5	.000	.000	.000	.000	.000	.000
IF	410.000	10.000	.000	.000 11.2	.000	.000	.000	.000	.000	.000
IF	455.000	12.000	.000	.000 11.0	.000	.000	.000	.000	.000	.000
IF AS	458.000	12.000	.000	.000 10.7	.000	.000	.000	.000	.000	.000
IF	485.000	10.000	.000	.000 10.6	.000	.000	.000	.000	.000	.000
IF	503.000	8.000	.000	.000 10.4	.000	.000	.000	.000	.000	.000
IF	545.000	6.000	.000	.000 9.7	.000	.000	.000	.000	.000	.000
IF	525.000	4.000	.000	.000 9.5	.000	.000	.000	.000	.000	.000
IF	710.000	2.000	.000	.000 8.8	.000	.000	.000	.000	.000	.000
IF	725.000	1.000	.000	.000 8.3	.000	.000	.000	.000	.000	.000
IF	740.000	.000	.000	.000 8.6	.000	.000	.000	.000	.000	.000
ET	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	422.0	11.1	0	11.1	0	0				
AS	477	10.6	0	10.6						

1E	END STATION .000	END ELEVATION .000	FETCH LENGTH 24.000	SURGE ELEV 10-YEAR 6.300	SURGE ELEV 100-YEAR 12.900	INITIAL WAVE HEIGHT .000	INITIAL W. PERIOD .000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 310.000	END ELEVATION 8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 360.000	END ELEVATION 8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 410.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 435.000	END ELEVATION 12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 458.000	END ELEVATION 12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 485.000	END ELEVATION 10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 503.000	END ELEVATION 8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 595.000	END ELEVATION 6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 625.000	END ELEVATION 4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 710.000	END ELEVATION 2.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	END STATION 725.000	END ELEVATION 1.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR							AVERAGE A-ZONES
IF 740.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

-----END OF TRANSECT-----

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION	WAVE HEIGHT	WAVE ELEVATION
IE .00	10.06	19.94
IF 310.00	3.82	15.58
IF 360.00	3.82	15.58
IF 410.00	2.26	14.48
IF 435.00	.70	13.39
IF 458.00	.70	13.39
IF 485.00	.70	13.39
IF 503.00	.73	13.41
IF 595.00	.92	13.55
IF 625.00	1.01	13.61
IF 710.00	1.31	13.82
IF 725.00	1.37	13.86
IF 740.00	1.44	13.91

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 1.44 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE
 NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES
 STATION 10-YEAR SURGE 100-YEAR SURGE
 NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES
 STATION OF GUTTER LOCATION OF ZONE
 386.35 WINDWARD

PART6 NUMBERED A ZONES AND V ZONES
 STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

.00 19.94
31.47 19.50
102.44 18.50
173.41 17.50
244.38 16.50
363.45 15.50
386.35 15.00
409.24 14.50
432.51 13.50
565.62 13.50
740.00 13.91

V20 EL=20 100
V20 EL=19 100
V20 EL=18 100
V20 EL=17 100
V20 EL=16 100
V20 EL=15 100
A15 EL=15 75
A15 EL=14 75
A15 EL=13 75
A15 EL=14 75

ZONE TERMINATED AT END OF TRANSECT

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD			AVERAGE A-ZONES
1E	.000	.000	24.000	6.300	10.300	.000	.000	.000	.000	.000
IF	310.000	8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	360.000	8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	410.000	10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	414.000	10.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	435.000	12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	458.000	12.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
AS	481.000	10.300	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	485.000	10.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	503.000	8.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	595.000	6.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000
IF	625.000	4.000	NEW SURGE 10-YEAR .000	NEW SURGE 100-YEAR .000	.000	.000	.000	.000	.000	AVERAGE A-ZONES .000

2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR						AVERAGE A-ZONES
IF	710.000	2.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	725.000	1.000	.000	.000	.000	.000	.000	.000	.000	.000
IF	740.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

-----END OF TRANSECT-----

NOTE:
 SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

LOCATION ~~X~~ WAVE HEIGHT WAVE ELEVATION

IE	.00	8.03	15.92
IF	310.00	1.79	11.56
IF	360.00	1.79	11.56
IF	410.00	.23	10.46
IF	414.00	.00	10.30
AS	435.00	-1.33	12.00
AS	458.00	-1.33	12.00
AS	481.00	.00	10.30
IF	485.00	.00	10.30
IF	503.00	.01	10.31
IF	595.00	.12	10.38
IF	625.00	.18	10.42
IF	710.00	.40	10.58
IF	725.00	.45	10.61
IF	740.00	.50	10.65

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 414.00 AND 435.00
 BETWEEN 435.00 AND 458.00
 BETWEEN 458.00 AND 481.00

PART4 LOCATION OF SURGE CHANGES

STATION 10-YEAR SURGE 100-YEAR SURGE
 NO SURGE CHANGES IN THIS TRANSECT

PART5 LOCATION OF V ZONES

STATION OF GUTTER LOCATION OF ZONE
 250.09 WINDWARD

PART 6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER ELEVATION ZONE DESIGNATION FHF

.00	15.92		
		V12 EL=16	60
30.08	15.50		
		V12 EL=15	60
101.05	14.50		
		V12 EL=14	60
172.02	13.50		
		V12 EL=13	60
242.99	12.50		
		V12 EL=12	60
250.09	12.40		
		A 9 EL=12	45
362.56	11.50		
		A 9 EL=11	45
408.34	10.50		
		A 9 EL=10	45
414.00	10.30		
435.00	12.00		
458.00	12.00		
481.00	10.30		
		A 9 EL=10	45
667.11	10.50		
		A 9 EL=11	45
740.00	10.65		

ZONE TERMINATED AT END OF TRANSECT