********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 1

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 1.000 | 23.000 | -97.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 26.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -4200.000 | -24.000 | -2710.000 | -18.000 | -1220.000 | -15.000 | -910.000 | -12.000 | -600.000 |
| GR | -9.000 | -495.000 | -6.000 | -390.000 | -3.000 | -195.000 | -1.500 | -97.500 | .000 | .000 |
| GR | 2.900 | 38.000 | 5.700 | 75.000 | 6.600 | 119.000 | 9.400 | 124.000 | 10.700 | 150.000 |
| GR | 13.700 | 166.000 | 7.900 | 197.000 | 7.800 | 242.000 | 8.700 | 316.000 | 8.500 | 405.000 |
| GR | 7.200 | 476.000 | 6.600 | 507.000 | 6.600 | 1000.000 | | | | |

LISTING OF OUTPUT

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

STILL WATER ELEVATION= 10.300 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.107 CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1954.698
EROSION AREA = 1954.239

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -4200.000 | -24.000 | -2710.000 | -18.000 | -1220.000 | -15.000 | -510.000 | -13.601 | -765.430 |
| -6.952 | -702.165 | -6.482 | -600.000 | -5.059 | -495.000 | -3.635 | -390.000 | -2.212 | -195.000 |
| -1.500 | -97.500 | -.788 | .000 | .588 | 38.000 | 1.916 | 75.000 | 2.344 | 119.000 |
| 3.672 | 126.000 | 4.289 | 150.000 | 5.713 | 166.000 | 2.960 | 197.000 | 2.913 | 242.000 |
| 3.340 | 316.000 | 3.250 | 400.540 | 6.037 | 405.000 | 8.430 | 408.830 | 8.350 | 413.170 |
| 7.200 | 476.000 | 6.600 | 507.000 | 6.600 | 1000.000 | | | | |

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 | 2.900 | 38.000 | 5.700 | 75.000 | 6.600 | 119.000 | 9.400 | 126.000 |
| 10.700 | 150.000 | 13.700 | 166.000 | 7.900 | 197.000 | 7.800 | 242.000 | 8.700 | 316.000 |
| 8.510 | 400.540 | 8.500 | 405.000 | 8.430 | 408.830 | 8.350 | 413.170 | 7.200 | 476.000 |
| 6.600 | 507.000 | 6.600 | 1000.000 | | | | | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | .588 | 38.000 | 1.916 | 75.000 | 2.344 | 119.000 | 3.672 | 126.000 |
| 4.289 | 150.000 | 5.713 | 166.000 | 2.960 | 197.000 | 2.913 | 242.000 | 3.360 | 316.000 |
| 3.250 | 400.540 | 6.037 | 405.000 | 8.430 | 408.830 | 8.350 | 413.170 | 7.200 | 476.000 |
| 6.600 | 507.000 | 6.600 | 1000.000 | | | | | | |

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

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 1.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 21.8 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 38.0 | .8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 75.0 | 1.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 119.0 | 2.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 126.0 | 3.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 150.0 | 4.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 166.0 | 5.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 197.0 | 3.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 242.0 | 2.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 316.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 400.5 | 3.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 405.0 | 6.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 408.8 | 8.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 415.2 | 8.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 476.0 | 7.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 507.0 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 2

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 2.000 | 26.000 | -112.800 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |
| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -3650.000 | -27.000 | -3037.500 | -24.000 | -2425.000 | -21.000 | -1812.500 | -18.000 | -1200.000 |
| GR | -15.000 | -950.000 | -12.000 | -700.000 | -9.000 | -600.000 | -6.000 | -500.000 | -3.000 | -250.000 |
| GR | -1.500 | -112.800 | .000 | .000 | 4.000 | 63.000 | 6.300 | 103.000 | 8.700 | 124.000 |
| GR | 8.800 | 125.000 | 9.800 | 202.000 | 10.500 | 222.000 | 12.600 | 243.000 | 9.400 | 273.000 |
| GR | 9.700 | 336.000 | 8.900 | 376.000 | 8.500 | 416.000 | 7.600 | 488.000 | 6.700 | 543.000 |
| GR | 6.600 | 588.000 | | | | | | | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 2.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107

PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1908.161
EROSION AREA = 1907.661

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -3650.000 | -27.000 | -3037.500 | -24.000 | -2425.000 | -21.000 | -1812.500 | -18.000 | -1200.000 |
| -15.000 | -950.000 | -13.767 | -847.234 | -6.952 | -782.391 | -6.482 | -700.000 | -5.059 | -600.000 |
| -5.635 | -500.000 | -2.212 | -250.000 | -1.500 | -112.800 | -.788 | .000 | 1.110 | 63.000 |
| 2.201 | 103.000 | 3.340 | 124.000 | 3.387 | 125.000 | 3.862 | 202.000 | 7.041 | 222.000 |
| 5.191 | 245.000 | 3.672 | 273.000 | 3.815 | 336.000 | 3.571 | 361.638 | 7.163 | 367.386 |
| 9.013 | 370.347 | 8.900 | 376.000 | 8.814 | 384.608 | 8.500 | 416.000 | 7.600 | 488.000 |
| 6.700 | 543.000 | 6.600 | 588.000 | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 2.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 4.000 | 63.000 | 6.300 | 103.000 | 8.700 | 124.000 | 8.800 | 125.000 |
| 9.800 | 202.000 | 16.500 | 222.000 | 12.600 | 243.000 | 9.400 | 273.000 | 9.700 | 336.000 |
| 9.187 | 361.638 | 9.072 | 367.386 | 9.013 | 370.347 | 8.900 | 376.000 | 8.814 | 384.608 |
| 8.500 | 416.000 | 7.600 | 488.000 | 6.700 | 543.000 | 6.600 | 588.000 | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | 1.110 | 63.000 | 2.201 | 103.000 | 3.340 | 124.000 | 3.387 | 125.000 |
| 3.862 | 202.000 | 7.041 | 222.000 | 5.191 | 243.000 | 3.672 | 273.000 | 3.815 | 336.000 |
| 3.571 | 361.638 | 7.163 | 367.386 | 9.013 | 370.347 | 8.900 | 376.000 | 8.814 | 384.608 |
| 8.500 | 416.000 | 7.600 | 488.000 | 6.700 | 543.000 | 6.600 | 588.000 | | |

* * * * * TRANSECT NUMBER 2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 2.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| DF | 26.2 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 63.0 | 1.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 103.0 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 124.0 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 125.0 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 202.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 222.0 | 7.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 243.0 | 5.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 273.0 | 3.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 336.0 | 3.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 361.6 | 3.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 367.4 | 7.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 370.3 | 9.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 376.0 | 8.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 384.6 | 8.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 416.0 | 8.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 488.0 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 543.0 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 588.0 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| AS | 576.0 | 10.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 3

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S=0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 3.000 | 25.000 | -27.600 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -50.000 | -6300.000 | -24.000 | -3650.500 | -18.000 | -1000.000 | -15.000 | -875.000 | -12.000 | -750.000 |
| GR | -9.000 | -670.000 | -6.000 | -590.000 | -1.900 | -35.000 | -1.500 | -27.600 | .000 | .000 |
| GR | 5.800 | 101.000 | 7.400 | 108.000 | 9.900 | 151.000 | 11.200 | 167.000 | 13.400 | 234.000 |
| GR | 12.700 | 249.000 | 8.800 | 264.000 | 9.900 | 295.000 | 8.500 | 355.000 | 7.200 | 413.000 |
| GR | 7.100 | 527.000 | 6.700 | 639.000 | 6.200 | 696.000 | 6.100 | 759.000 | 6.100 | 1000.000 |

LISTING OF OUTPUT

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

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.939 NGVD

DEPOSITION AREA = 1808.593
EROSION AREA = 1808.582

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -6300.000 | -24.000 | -3650.500 | -18.000 | -1000.000 | -15.000 | -875.000 | -14.775 | -865.633 |
| -6.952 | -791.196 | -6.482 | -750.000 | -5.059 | -670.000 | -3.635 | -590.000 | -1.690 | -35.000 |
| -1.500 | -27.600 | -.788 | .000 | 1.964 | 101.000 | 2.723 | 108.000 | 3.909 | 151.000 |
| 4.526 | 167.000 | 5.570 | 234.000 | 5.238 | 249.000 | 3.387 | 264.000 | 3.909 | 295.000 |
| 3.307 | 349.448 | 6.776 | 355.000 | 8.440 | 357.664 | 8.318 | 363.118 | 7.200 | 413.000 |
| 7.100 | 527.000 | 6.700 | 639.000 | 6.200 | 696.000 | 6.100 | 759.000 | 6.100 | 1000.000 |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 3.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 5.800 | 101.000 | 7.400 | 108.000 | 9.900 | 151.000 | 11.200 | 167.000 |
| 13.400 | 234.000 | 12.700 | 249.000 | 8.800 | 264.000 | 9.900 | 295.000 | 8.630 | 349.448 |
| 8.500 | 355.000 | 8.440 | 357.664 | 8.318 | 363.118 | 7.200 | 413.000 | 7.100 | 527.000 |
| 6.700 | 639.000 | 6.200 | 696.000 | 6.100 | 759.000 | 6.100 | 1000.000 | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | 1.964 | 101.000 | 2.723 | 108.000 | 3.909 | 151.000 | 4.526 | 167.000 |
| 5.570 | 234.000 | 5.238 | 249.000 | 3.387 | 264.000 | 3.909 | 295.000 | 3.307 | 349.443 |
| 6.776 | 355.000 | 8.440 | 357.664 | 8.318 | 363.118 | 7.200 | 413.000 | 7.100 | 527.000 |
| 6.700 | 639.000 | 6.200 | 696.000 | 6.100 | 759.000 | 6.100 | 1000.000 | | |

* * * * * TRANSECT NUMBER 3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 3.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 28.9 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 101.0 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 108.0 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 151.0 | 3.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 167.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 234.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 249.0 | 5.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 266.0 | 3.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 295.0 | 3.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 349.4 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 355.0 | 6.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 357.7 | 8.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 363.1 | 8.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 413.0 | 7.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 527.0 | 7.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 939.0 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 6.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 4

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 4.000 | 18.000 | -187.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G.E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -5660.000 | -24.000 | -3430.000 | -18.000 | -1180.000 | -15.000 | -1065.000 | -12.000 | -950.000 |
| GR | -9.000 | -850.000 | -6.000 | -750.000 | -3.000 | -375.000 | -1.500 | -187.500 | -.800 | -18.000 |
| GR | .000 | .000 | 3.500 | 54.000 | 7.500 | 72.000 | 5.400 | 103.000 | 5.600 | 108.000 |
| GR | 4.800 | 282.000 | 4.000 | 598.000 | 4.000 | 1000.000 | | | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 4.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.107 CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1902.894
EROSION AREA = 1903.389

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -5680.000 | -24.000 | -3430.000 | -18.000 | -1180.000 | -15.000 | -1065.000 | -14.982 | -1064.303 |
| -6.952 | -987.900 | -6.482 | -950.000 | -5.059 | -850.000 | -3.635 | -750.000 | -2.212 | -575.000 |
| -1.500 | -187.500 | -1.168 | -18.000 | -.788 | .000 | .873 | 54.000 | 2.771 | 72.000 |
| 1.774 | 103.000 | 1.869 | 108.000 | 1.489 | 282.000 | 1.128 | 582.962 | 1.854 | 584.125 |
| 4.026 | 587.601 | 4.023 | 588.760 | 4.012 | 593.385 | 4.000 | 598.000 | 4.000 | 602.625 |
| 4.000 | 1000.000 | | | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 4.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 3.500 | 54.000 | 7.500 | 72.000 | 5.400 | 103.000 | 5.600 | 108.000 |
| 4.800 | 252.000 | 4.038 | 582.962 | 4.035 | 584.125 | 4.026 | 587.601 | 4.023 | 588.760 |
| 4.012 | 593.385 | 4.000 | 598.000 | 4.000 | 602.625 | 4.000 | 1000.000 | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | .873 | 54.000 | 2.771 | 72.000 | 1.774 | 103.000 | 1.869 | 108.000 |
| 1.489 | 252.000 | 1.128 | 582.962 | 1.854 | 584.125 | 4.026 | 587.601 | 4.023 | 588.760 |
| 4.012 | 593.385 | 4.000 | 598.000 | 4.000 | 602.625 | 4.000 | 1000.000 | | |

* * * * * TRANSECT NUMBER 4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 4.000

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IE .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF 25.6 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF 54.0 | .9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 72.0 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 103.0 | 1.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 108.0 | 1.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 262.0 | 1.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 583.0 | 1.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 584.1 | 1.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 587.6 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 588.8 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 593.4 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 595.0 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 602.6 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 574.0 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 5

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 5.000 | 22.000 | -112.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |
| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -5000.000 | -24.000 | -2950.000 | -18.000 | -900.000 | -15.000 | -850.000 | -12.000 | -800.000 |
| GR | -9.000 | -625.000 | -6.000 | -450.000 | -3.000 | -225.000 | -1.500 | -112.500 | .000 | .000 |
| GR | 1.500 | 12.000 | 6.200 | 57.000 | 10.100 | 66.000 | 15.000 | 76.000 | 9.000 | 96.000 |
| GR | 9.200 | 108.000 | 9.000 | 130.000 | 12.600 | 149.000 | 8.600 | 167.000 | 7.300 | 215.000 |
| GR | 7.300 | 950.000 | 7.300 | 1000.000 | | | | | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 5.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.107 CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 2163.813
EROSION AREA = 2164.185

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -5000.000 | -24.000 | -2950.000 | -18.065 | -922.216 | -18.000 | -900.000 | -10.475 | -850.000 |
| -6.952 | -816.478 | -6.482 | -800.000 | -5.059 | -625.000 | -3.635 | -450.000 | -2.212 | -225.000 |
| -1.500 | -112.500 | -.788 | .000 | -.171 | 12.000 | 2.154 | 57.000 | 4.004 | 66.000 |
| 6.329 | 76.000 | 3.482 | 96.000 | 3.577 | 108.000 | 3.462 | 130.000 | 5.191 | 149.000 |
| 5.293 | 167.000 | 2.676 | 215.000 | 2.676 | 439.551 | 7.264 | 446.894 | 7.300 | 446.952 |
| 7.300 | 454.295 | 7.300 | 461.691 | 7.300 | 469.090 | 7.300 | 476.489 | 7.300 | 483.887 |
| 7.300 | 491.286 | 7.300 | 498.684 | 7.300 | 506.083 | 7.300 | 513.482 | 7.300 | 520.880 |
| 7.300 | 528.279 | 7.300 | 535.678 | 7.300 | 543.076 | 7.300 | 550.475 | 7.300 | 557.873 |
| 7.300 | 565.272 | 7.300 | 572.671 | 7.300 | 580.069 | 7.300 | 587.468 | 7.300 | 594.866 |
| 7.300 | 602.265 | 7.300 | 609.664 | 7.300 | 617.062 | 7.300 | 624.461 | 7.300 | 631.860 |
| 7.300 | 639.258 | 7.300 | 646.657 | 7.300 | 654.055 | 7.300 | 661.454 | 7.300 | 668.853 |
| 7.300 | 676.251 | 7.300 | 683.650 | 7.300 | 691.048 | 7.300 | 698.447 | 7.300 | 705.846 |
| 7.300 | 713.244 | 7.300 | 720.643 | 7.300 | 728.042 | 7.300 | 735.440 | 7.300 | 742.839 |
| 7.300 | 750.237 | 7.300 | 757.636 | 7.300 | 765.035 | 7.300 | 772.433 | 7.300 | 779.832 |
| 7.300 | 787.230 | 7.300 | 794.629 | 7.300 | 802.028 | 7.300 | 809.426 | 7.300 | 816.825 |
| 7.300 | 824.224 | 7.300 | 831.622 | 7.300 | 839.021 | 7.300 | 846.419 | 7.300 | 853.818 |
| 7.300 | 861.217 | 7.300 | 868.615 | 7.300 | 876.014 | 7.300 | 883.412 | 7.300 | 890.811 |
| 7.300 | 898.210 | 7.300 | 905.608 | 7.300 | 913.007 | 7.300 | 920.406 | 7.300 | 927.804 |
| 7.300 | 935.203 | 7.300 | 942.601 | 7.300 | 950.000 | 7.300 | 957.400 | 7.300 | 1000.000 |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 5.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.000 | .000 | 1.300 | 12.000 | 6.200 | 57.000 | 10.100 | 66.000 | 15.000 | 76.000 |
| 9.000 | 96.000 | 9.200 | 108.000 | 9.000 | 130.000 | 12.600 | 149.000 | 8.600 | 167.000 |
| 7.300 | 215.000 | 7.300 | 439.551 | 7.300 | 446.894 | 7.300 | 446.952 | 7.300 | 454.293 |
| 7.300 | 461.691 | 7.300 | 469.090 | 7.300 | 476.489 | 7.300 | 483.887 | 7.300 | 491.286 |
| 7.300 | 498.684 | 7.300 | 506.083 | 7.300 | 513.482 | 7.300 | 520.880 | 7.300 | 528.279 |
| 7.300 | 535.678 | 7.300 | 543.076 | 7.300 | 550.475 | 7.300 | 557.873 | 7.300 | 565.272 |
| 7.300 | 572.671 | 7.300 | 580.069 | 7.300 | 587.468 | 7.300 | 594.866 | 7.300 | 602.265 |
| 7.300 | 609.664 | 7.300 | 617.062 | 7.300 | 624.461 | 7.300 | 631.360 | 7.300 | 639.258 |
| 7.300 | 646.657 | 7.300 | 654.055 | 7.300 | 661.454 | 7.300 | 668.853 | 7.300 | 676.251 |
| 7.300 | 683.650 | 7.300 | 691.048 | 7.300 | 698.447 | 7.300 | 705.846 | 7.300 | 713.244 |
| 7.300 | 720.643 | 7.300 | 728.042 | 7.300 | 735.440 | 7.300 | 742.839 | 7.300 | 750.237 |
| 7.300 | 757.636 | 7.300 | 765.035 | 7.300 | 772.433 | 7.300 | 779.832 | 7.300 | 787.230 |
| 7.300 | 794.629 | 7.300 | 802.028 | 7.300 | 809.426 | 7.300 | 816.825 | 7.300 | 824.224 |
| 7.300 | 831.622 | 7.300 | 839.021 | 7.300 | 846.419 | 7.300 | 853.818 | 7.300 | 861.217 |
| 7.300 | 868.615 | 7.300 | 876.014 | 7.300 | 883.412 | 7.300 | 890.811 | 7.300 | 898.210 |
| 7.300 | 905.608 | 7.300 | 913.007 | 7.300 | 920.406 | 7.300 | 927.804 | 7.300 | 935.203 |
| 7.300 | 942.601 | 7.300 | 950.000 | 7.300 | 957.400 | 7.300 | 1000.000 | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.171 | 12.000 | 2.154 | 57.000 | 4.004 | 66.000 | 6.329 | 76.000 |
| 3.482 | 96.000 | 3.577 | 108.000 | 3.482 | 130.000 | 5.191 | 149.000 | 3.293 | 167.000 |
| 2.676 | 215.000 | 2.676 | 439.551 | 7.264 | 446.894 | 7.300 | 446.952 | 7.300 | 454.293 |
| 7.300 | 461.691 | 7.300 | 469.090 | 7.300 | 476.489 | 7.300 | 483.887 | 7.300 | 491.286 |
| 7.300 | 498.684 | 7.300 | 506.083 | 7.300 | 513.482 | 7.300 | 520.880 | 7.300 | 528.279 |
| 7.300 | 535.678 | 7.300 | 543.076 | 7.300 | 550.475 | 7.300 | 557.873 | 7.300 | 565.272 |
| 7.300 | 572.671 | 7.300 | 580.069 | 7.300 | 587.468 | 7.300 | 594.866 | 7.300 | 602.265 |
| 7.300 | 609.664 | 7.300 | 617.062 | 7.300 | 624.461 | 7.300 | 631.360 | 7.300 | 639.258 |
| 7.300 | 646.657 | 7.300 | 654.055 | 7.300 | 661.454 | 7.300 | 668.853 | 7.300 | 676.251 |
| 7.300 | 683.650 | 7.300 | 691.048 | 7.300 | 698.447 | 7.300 | 705.846 | 7.300 | 713.244 |
| 7.300 | 720.643 | 7.300 | 728.042 | 7.300 | 735.440 | 7.300 | 742.839 | 7.300 | 750.237 |
| 7.300 | 757.636 | 7.300 | 765.035 | 7.300 | 772.433 | 7.300 | 779.832 | 7.300 | 787.230 |
| 7.300 | 794.629 | 7.300 | 802.028 | 7.300 | 809.426 | 7.300 | 816.825 | 7.300 | 824.224 |
| 7.300 | 831.622 | 7.300 | 839.021 | 7.300 | 846.419 | 7.300 | 853.818 | 7.300 | 861.217 |
| 7.300 | 868.615 | 7.300 | 876.014 | 7.300 | 883.412 | 7.300 | 890.811 | 7.300 | 898.210 |
| 7.300 | 905.608 | 7.300 | 913.007 | 7.300 | 920.406 | 7.300 | 927.804 | 7.300 | 935.203 |
| 7.300 | 942.601 | 7.300 | 950.000 | 7.300 | 957.400 | 7.300 | 1000.000 | | |

* * * * * TRANSECT NUMBER 5.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 5.000

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IE .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF 12.0 | -.2 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF 15.5 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF 57.0 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 66.0 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 78.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 96.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 108.0 | 3.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 130.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 149.0 | 5.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 167.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 215.0 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 439.6 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 446.9 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 447.0 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 454.3 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 461.7 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 469.1 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 476.5 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 483.9 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 491.3 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 498.7 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 506.1 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 513.5 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 520.9 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 528.3 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 535.7 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 543.1 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 550.5 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 557.9 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 565.3 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 572.7 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 580.1 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 587.5 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 594.9 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 602.3 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 609.7 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 617.1 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 624.5 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 631.9 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 639.3 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 646.7 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 654.1 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 661.5 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 668.9 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 674.0 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET1000.0 | 1000.0 | 5.0 | | | | | | | |

**********  LISTING OF INPUT DATA  **********

T1  ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 6

T2  BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 6.000 | 26.000 | -112.800 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -2820.000 | -24.000 | -1885.000 | -18.000 | -950.000 | -15.000 | -825.000 | -12.000 | -700.000 |
| GR | -9.000 | -575.000 | -6.000 | -450.000 | -3.000 | -225.000 | -1.500 | -112.800 | .000 | .000 |
| GR | 1.000 | 12.000 | 4.700 | 60.000 | 7.700 | 76.000 | 12.300 | 86.000 | 14.000 | 100.000 |
| GR | 12.400 | 115.000 | 9.100 | 151.000 | 11.600 | 145.000 | 8.200 | 154.000 | 8.600 | 170.000 |
| GR | 8.000 | 199.000 | 11.100 | 222.000 | 8.400 | 247.000 | 7.600 | 275.000 | 7.600 | 950.000 |
| GR | 7.600 | 1000.000 | | | | | | | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 6.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.707 CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1846.912
EROSION AREA = 1847.304

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2520.000 | -24.000 | -1885.000 | -18.000 | -950.000 | -15.000 | -825.000 | -14.775 | -815.633 |
| -6.952 | -741.196 | -6.422 | -700.000 | -5.059 | -575.000 | -3.635 | -450.000 | -2.212 | -225.000 |
| -1.500 | -112.800 | -.788 | .000 | -.314 | 12.000 | 1.442 | 60.000 | 2.866 | 76.000 |
| 5.048 | 86.000 | 5.655 | 100.000 | 5.096 | 115.000 | 3.530 | 131.000 | 4.716 | 145.000 |
| 3.103 | 154.000 | 3.293 | 170.000 | 3.008 | 199.000 | 4.479 | 222.000 | 3.198 | 247.000 |
| 2.818 | 275.000 | 2.818 | 361.840 | 7.002 | 368.536 | 7.600 | 369.492 | 7.600 | 376.187 |
| 7.600 | 383.838 | 7.600 | 391.489 | 7.600 | 399.139 | 7.600 | 406.790 | 7.600 | 414.441 |
| 7.600 | 422.092 | 7.600 | 429.743 | 7.600 | 437.394 | 7.600 | 445.044 | 7.600 | 452.695 |
| 7.600 | 460.346 | 7.600 | 467.997 | 7.600 | 475.648 | 7.600 | 483.299 | 7.600 | 490.950 |
| 7.600 | 498.600 | 7.600 | 506.251 | 7.600 | 513.902 | 7.600 | 521.553 | 7.600 | 529.204 |
| 7.600 | 536.855 | 7.600 | 544.505 | 7.600 | 552.156 | 7.600 | 559.807 | 7.600 | 567.458 |
| 7.600 | 575.109 | 7.600 | 582.760 | 7.600 | 590.410 | 7.600 | 598.061 | 7.600 | 605.712 |
| 7.600 | 613.363 | 7.600 | 621.014 | 7.600 | 628.665 | 7.600 | 636.316 | 7.600 | 643.966 |
| 7.600 | 651.617 | 7.600 | 659.268 | 7.600 | 666.919 | 7.600 | 674.570 | 7.600 | 682.221 |
| 7.600 | 689.871 | 7.600 | 697.522 | 7.600 | 705.173 | 7.600 | 712.824 | 7.600 | 720.475 |
| 7.600 | 728.126 | 7.600 | 735.776 | 7.600 | 743.427 | 7.600 | 751.078 | 7.600 | 758.729 |
| 7.600 | 766.380 | 7.600 | 774.031 | 7.600 | 781.681 | 7.600 | 789.332 | 7.600 | 796.983 |
| 7.600 | 804.634 | 7.600 | 812.285 | 7.600 | 819.936 | 7.600 | 827.587 | 7.600 | 835.237 |
| 7.600 | 842.888 | 7.600 | 850.539 | 7.600 | 858.190 | 7.600 | 865.841 | 7.600 | 873.492 |
| 7.600 | 881.142 | 7.600 | 888.793 | 7.600 | 896.444 | 7.600 | 904.095 | 7.600 | 911.746 |
| 7.600 | 919.397 | 7.600 | 927.047 | 7.600 | 934.698 | 7.600 | 942.349 | 7.600 | 950.000 |
| 7.600 | 957.653 | 7.600 | 1000.000 | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 6.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 1.000 | 12.000 | 4.700 | 60.000 | 7.700 | 76.000 | 12.300 | 86.000 |
| 14.000 | 100.000 | 12.400 | 115.000 | 9.100 | 131.000 | 11.500 | 145.000 | 8.200 | 154.000 |
| 5.600 | 170.000 | 5.000 | 199.000 | 11.100 | 222.000 | 8.400 | 247.000 | 7.600 | 275.000 |
| 7.600 | 361.840 | 7.600 | 368.536 | 7.600 | 369.492 | 7.600 | 376.187 | 7.600 | 383.839 |
| 7.600 | 391.489 | 7.600 | 399.139 | 7.600 | 406.790 | 7.600 | 414.441 | 7.600 | 422.092 |
| 7.600 | 429.743 | 7.600 | 437.394 | 7.600 | 445.044 | 7.600 | 452.695 | 7.600 | 460.346 |
| 7.600 | 467.997 | 7.600 | 475.648 | 7.600 | 483.299 | 7.600 | 490.950 | 7.600 | 498.600 |
| 7.600 | 506.251 | 7.600 | 513.902 | 7.600 | 521.553 | 7.600 | 529.204 | 7.600 | 536.855 |
| 7.600 | 544.505 | 7.600 | 552.156 | 7.600 | 559.807 | 7.600 | 567.458 | 7.600 | 575.109 |
| 7.600 | 582.760 | 7.600 | 590.410 | 7.600 | 598.061 | 7.600 | 605.712 | 7.600 | 613.363 |
| 7.600 | 621.014 | 7.600 | 628.665 | 7.600 | 636.316 | 7.600 | 643.966 | 7.600 | 651.617 |
| 7.600 | 659.268 | 7.600 | 666.919 | 7.600 | 674.570 | 7.600 | 682.221 | 7.600 | 689.871 |
| 7.600 | 697.522 | 7.600 | 705.173 | 7.600 | 712.824 | 7.600 | 720.475 | 7.600 | 728.126 |
| 7.600 | 735.776 | 7.600 | 743.427 | 7.600 | 751.078 | 7.600 | 758.729 | 7.600 | 766.380 |
| 7.600 | 774.031 | 7.600 | 781.681 | 7.600 | 789.332 | 7.600 | 796.983 | 7.600 | 804.634 |
| 7.600 | 812.285 | 7.600 | 819.936 | 7.600 | 827.587 | 7.600 | 835.237 | 7.600 | 842.888 |
| 7.600 | 850.539 | 7.600 | 858.190 | 7.600 | 865.841 | 7.600 | 873.492 | 7.600 | 881.142 |
| 7.600 | 888.793 | 7.600 | 896.444 | 7.600 | 904.095 | 7.600 | 911.746 | 7.600 | 919.397 |
| 7.600 | 927.047 | 7.600 | 934.698 | 7.600 | 942.349 | 7.600 | 950.000 | 7.600 | 957.653 |
| 7.600 | 1000.000 | | | | | | | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.314 | 12.000 | 1.442 | 60.000 | 2.866 | 76.000 | 5.043 | 86.000 |
| 5.855 | 100.000 | 5.096 | 115.000 | 3.530 | 131.000 | 4.716 | 145.000 | 3.103 | 154.000 |
| 3.293 | 170.000 | 3.008 | 199.000 | 4.479 | 222.000 | 3.198 | 247.000 | 2.818 | 275.000 |
| 2.813 | 361.840 | 7.002 | 368.536 | 7.600 | 369.492 | 7.600 | 376.187 | 7.600 | 383.839 |
| 7.600 | 391.489 | 7.600 | 399.139 | 7.600 | 406.790 | 7.600 | 414.441 | 7.600 | 422.092 |
| 7.600 | 429.743 | 7.600 | 437.394 | 7.600 | 445.044 | 7.600 | 452.695 | 7.600 | 460.346 |
| 7.600 | 467.997 | 7.600 | 475.648 | 7.600 | 483.299 | 7.600 | 490.950 | 7.600 | 498.600 |
| 7.600 | 506.251 | 7.600 | 513.902 | 7.600 | 521.553 | 7.600 | 529.204 | 7.600 | 536.855 |
| 7.600 | 544.505 | 7.600 | 552.156 | 7.600 | 559.807 | 7.600 | 567.458 | 7.600 | 575.109 |
| 7.600 | 582.760 | 7.600 | 590.410 | 7.600 | 598.061 | 7.600 | 605.712 | 7.600 | 613.363 |
| 7.600 | 621.014 | 7.600 | 628.665 | 7.600 | 636.316 | 7.600 | 643.966 | 7.600 | 651.617 |
| 7.600 | 659.268 | 7.600 | 666.919 | 7.600 | 674.570 | 7.600 | 682.221 | 7.600 | 689.871 |
| 7.600 | 697.522 | 7.600 | 705.173 | 7.600 | 712.824 | 7.600 | 720.475 | 7.600 | 728.126 |
| 7.600 | 735.776 | 7.600 | 743.427 | 7.600 | 751.078 | 7.600 | 758.729 | 7.600 | 766.380 |
| 7.600 | 774.031 | 7.600 | 781.681 | 7.600 | 789.332 | 7.600 | 796.983 | 7.600 | 804.634 |
| 7.600 | 812.285 | 7.600 | 819.936 | 7.600 | 827.587 | 7.600 | 835.237 | 7.600 | 842.888 |
| 7.600 | 850.539 | 7.600 | 858.190 | 7.600 | 865.841 | 7.600 | 873.492 | 7.600 | 881.142 |
| 7.600 | 888.793 | 7.600 | 896.444 | 7.600 | 904.095 | 7.600 | 911.746 | 7.600 | 919.397 |
| 7.600 | 927.047 | 7.600 | 934.698 | 7.600 | 942.349 | 7.600 | 950.000 | 7.600 | 957.653 |
| 7.600 | 1000.000 | | | | | | | | |

* * * * * TRANSECT NUMBER 6.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 6.000

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IE .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| UF 12.0 | -.5 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| UF 20.6 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF 60.0 | 1.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 76.0 | 2.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 86.0 | 5.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 100.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 115.0 | 5.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 131.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 145.0 | 4.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 154.0 | 3.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 170.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 199.0 | 3.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 222.0 | 4.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 247.0 | 3.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 275.0 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 361.8 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 368.5 | 7.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 369.5 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 376.2 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 383.8 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 391.5 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 399.1 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 406.8 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 414.4 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 422.1 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 429.7 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 437.4 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 445.0 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 452.7 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 460.3 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 468.0 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 475.6 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 483.3 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 490.9 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 498.6 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 506.3 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 513.9 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 521.6 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 529.2 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 536.9 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 544.5 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 552.2 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 559.8 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 567.5 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 575.1 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 582.8 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 590.4 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 598.1 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 605.7 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 613.4 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 7

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 7.000 | 25.000 | -125.000 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -2520.000 | -24.000 | -1750.000 | -18.000 | -980.000 | -15.000 | -845.000 | -12.000 | -710.000 |
| GR | -9.000 | -605.000 | -6.000 | -500.000 | -3.000 | -250.000 | -1.500 | -125.000 | .000 | .000 |
| GR | .900 | 12.000 | 5.800 | 77.000 | 10.600 | 95.000 | 13.000 | 103.000 | 11.600 | 108.000 |
| GR | 12.400 | 142.000 | 16.300 | 154.000 | 10.500 | 182.000 | 8.200 | 209.000 | 7.000 | 233.000 |
| GR | 10.500 | 251.000 | 10.900 | 310.000 | 6.500 | 411.000 | 8.500 | 471.000 | 8.500 | 1000.000 |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 7.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1747.942
EROSION AREA = 1747.964

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2520.000 | -24.000 | -1750.000 | -18.000 | -980.000 | -15.000 | -845.000 | -14.607 | -827.332 |
| -6.952 | -754.491 | -6.482 | -710.000 | -5.059 | -605.000 | -3.635 | -500.000 | -2.212 | -250.000 |
| -1.500 | -125.000 | -.788 | .000 | -.361 | 12.000 | 1.964 | 77.000 | 4.242 | 95.000 |
| 5.380 | 103.000 | 4.716 | 108.000 | 5.096 | 142.000 | 6.946 | 154.000 | 4.194 | 182.000 |
| 3.103 | 209.000 | 2.533 | 233.000 | 4.194 | 251.000 | 4.384 | 310.000 | 4.382 | 310.116 |
| 7.859 | 315.681 | 10.470 | 319.860 | 10.236 | 325.233 | 9.834 | 334.459 | 9.446 | 343.368 |
| 9.071 | 351.975 | 8.710 | 360.281 | 8.360 | 368.306 | 8.022 | 376.055 | 7.696 | 383.539 |
| 7.381 | 390.767 | 7.077 | 397.748 | 6.784 | 404.489 | 6.500 | 411.000 | 6.737 | 418.107 |
| 8.500 | 471.000 | 8.500 | 1000.000 | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 7.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | .900 | 12.000 | 5.800 | 77.000 | 10.600 | 95.000 | 13.000 | 103.000 |
| 11.600 | 108.000 | 12.400 | 142.000 | 16.300 | 154.000 | 10.500 | 182.000 | 8.200 | 209.000 |
| 7.000 | 233.000 | 10.500 | 251.000 | 10.900 | 310.000 | 10.895 | 310.116 | 10.653 | 315.681 |
| 10.470 | 319.860 | 10.236 | 325.233 | 9.834 | 334.459 | 9.446 | 343.368 | 9.071 | 351.973 |
| 8.710 | 360.281 | 8.360 | 368.306 | 8.022 | 376.055 | 7.696 | 383.539 | 7.381 | 390.767 |
| 7.077 | 397.748 | 6.784 | 404.489 | 6.500 | 411.000 | 6.737 | 418.107 | 8.500 | 471.000 |
| 8.500 | 1000.000 | | | | | | | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.361 | 12.000 | 1.964 | 77.000 | 4.242 | 95.000 | 5.380 | 103.000 |
| 4.716 | 108.000 | 5.096 | 142.000 | 6.946 | 154.000 | 4.194 | 182.000 | 3.103 | 209.000 |
| 2.533 | 233.000 | 4.194 | 251.000 | 4.384 | 310.000 | 4.382 | 310.116 | 7.859 | 315.681 |
| 10.470 | 319.860 | 10.236 | 325.233 | 9.834 | 334.459 | 9.446 | 343.363 | 9.071 | 351.973 |
| 8.710 | 360.281 | 8.360 | 368.306 | 8.022 | 376.055 | 7.696 | 383.539 | 7.381 | 390.767 |
| 7.077 | 397.748 | 6.784 | 404.489 | 6.500 | 411.000 | 6.737 | 418.107 | 8.500 | 471.000 |
| 8.500 | 1000.000 | | | | | | | | |

* * * * * TRANSECT NUMBER 7.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 7.000

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IE .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF 12.0 | -.6 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF 22.1 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF 77.0 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 95.0 | 4.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 103.0 | 5.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 108.0 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 142.0 | 5.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 154.0 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 182.0 | 4.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 209.0 | 3.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 253.0 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 251.0 | 4.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 310.0 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 310.1 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 319.6 | 10.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| AS 325.8 | 10.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 325.2 | 10.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 334.5 | 9.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 343.4 | 9.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 352.0 | 9.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 360.3 | 8.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 368.3 | 8.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 376.1 | 8.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 383.5 | 7.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 390.8 | 7.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 397.7 | 7.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 404.5 | 6.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 411.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 418.1 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 471.0 | 8.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 674.0 | 8.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 5/86 - TRANSECT 8

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 8.000 | 29.000 | -100.000 | 10.300 | 1.000 | 36.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -1953.000 | -24.000 | -1500.000 | -18.000 | -1050.000 | -15.000 | -950.000 | -12.000 | -850.000 |
| GR | -9.000 | -625.000 | -6.000 | -400.000 | -3.000 | -200.000 | -1.500 | -100.000 | .000 | .000 |
| GR | 1.100 | 10.000 | 6.300 | 60.000 | 9.800 | 86.000 | 12.400 | 105.000 | 14.800 | 110.000 |
| GR | 10.500 | 125.000 | 11.500 | 139.000 | 20.800 | 151.000 | 19.700 | 167.000 | 13.500 | 178.000 |
| GR | 7.100 | 204.000 | 7.000 | 208.000 | 6.700 | 307.000 | 5.700 | 327.000 | 4.300 | 338.000 |
| GR | 6.500 | 351.000 | 6.900 | 373.000 | 6.900 | 950.000 | 6.900 | 1000.000 | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 8.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.105
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.904 NGVD

DEPOSITION AREA = 2508.664
EROSION AREA = 2508.703

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -1950.000 | -24.000 | -1500.000 | -18.000 | -1050.000 | -15.295 | -959.848 | -15.000 | -950.000 |
| -8.917 | -830.130 | -6.457 | -850.000 | -5.062 | -825.000 | -3.637 | -400.000 | -2.212 | -200.000 |
| -1.500 | -100.000 | -.788 | .000 | -.265 | 10.000 | 2.205 | 60.000 | 3.367 | 86.000 |
| 5.102 | 105.000 | 6.242 | 110.000 | 4.200 | 125.000 | 4.675 | 139.000 | 9.092 | 151.000 |
| 8.570 | 167.000 | 5.625 | 178.000 | 2.585 | 204.000 | 2.537 | 208.000 | 2.395 | 307.000 |
| 1.920 | 327.000 | 1.255 | 338.000 | 2.300 | 351.000 | 2.490 | 373.000 | 2.490 | 494.658 |
| 6.971 | 495.429 | 6.900 | 501.516 | 6.900 | 505.485 | 6.900 | 512.540 | 6.900 | 519.596 |
| 6.900 | 526.652 | 6.900 | 533.708 | 6.900 | 540.764 | 6.900 | 547.819 | 6.900 | 554.875 |
| 6.900 | 561.931 | 6.900 | 568.987 | 6.900 | 576.043 | 6.900 | 583.098 | 6.900 | 590.154 |
| 6.900 | 597.210 | 6.900 | 604.266 | 6.900 | 611.322 | 6.900 | 618.377 | 6.900 | 625.433 |
| 6.900 | 632.489 | 6.900 | 639.545 | 6.900 | 646.601 | 6.900 | 653.656 | 6.900 | 660.712 |
| 6.900 | 667.758 | 6.900 | 674.824 | 6.900 | 681.880 | 6.900 | 688.935 | 6.900 | 695.991 |
| 6.900 | 703.047 | 6.900 | 710.103 | 6.900 | 717.159 | 6.900 | 724.214 | 6.900 | 731.270 |
| 6.900 | 738.326 | 6.900 | 745.382 | 6.900 | 752.438 | 6.900 | 759.493 | 6.900 | 766.549 |
| 6.900 | 773.605 | 6.900 | 780.661 | 6.900 | 787.717 | 6.900 | 794.772 | 6.900 | 801.828 |
| 6.900 | 808.884 | 6.900 | 815.940 | 6.900 | 822.996 | 6.900 | 830.051 | 6.900 | 837.107 |
| 6.900 | 844.163 | 6.900 | 851.219 | 6.900 | 858.275 | 6.900 | 865.330 | 6.900 | 872.386 |
| 6.900 | 879.442 | 6.900 | 886.498 | 6.900 | 893.554 | 6.900 | 900.609 | 6.900 | 907.665 |
| 6.900 | 914.721 | 6.900 | 921.777 | 6.900 | 928.833 | 6.900 | 935.888 | 6.900 | 942.944 |
| 6.900 | 950.000 | 6.900 | 957.058 | 6.900 | 1000.000 | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 8.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 1.100 | 10.000 | 6.300 | 60.000 | 9.800 | 86.000 | 12.400 | 105.000 |
| 14.800 | 110.000 | 10.500 | 125.000 | 11.500 | 139.000 | 20.800 | 151.000 | 19.700 | 167.000 |
| 13.500 | 178.000 | 7.100 | 204.000 | 7.000 | 208.000 | 6.700 | 307.000 | 5.700 | 327.000 |
| 4.300 | 338.000 | 6.500 | 351.000 | 6.900 | 373.000 | 6.900 | 494.458 | 6.900 | 498.429 |
| 6.900 | 501.516 | 6.900 | 505.485 | 6.900 | 512.540 | 6.900 | 519.596 | 6.900 | 526.652 |
| 6.900 | 533.708 | 6.900 | 540.764 | 6.900 | 547.819 | 6.900 | 554.875 | 6.900 | 561.931 |
| 6.900 | 568.987 | 6.900 | 576.043 | 6.900 | 583.098 | 6.900 | 590.154 | 6.900 | 597.210 |
| 6.900 | 604.266 | 6.900 | 611.322 | 6.900 | 618.377 | 6.900 | 625.433 | 6.900 | 632.489 |
| 6.900 | 639.545 | 6.900 | 646.601 | 6.900 | 653.656 | 6.900 | 660.712 | 6.900 | 667.768 |
| 6.900 | 674.824 | 6.900 | 681.880 | 6.900 | 688.935 | 6.900 | 695.991 | 6.900 | 703.047 |
| 6.900 | 710.103 | 6.900 | 717.159 | 6.900 | 724.214 | 6.900 | 731.270 | 6.900 | 738.326 |
| 6.900 | 745.382 | 6.900 | 752.438 | 6.900 | 759.493 | 6.900 | 766.549 | 6.900 | 773.605 |
| 6.900 | 780.661 | 6.900 | 787.717 | 6.900 | 794.772 | 6.900 | 801.828 | 6.900 | 808.884 |
| 6.900 | 815.940 | 6.900 | 822.996 | 6.900 | 830.051 | 6.900 | 837.107 | 6.900 | 844.163 |
| 6.900 | 851.219 | 6.900 | 858.275 | 6.900 | 865.330 | 6.900 | 872.386 | 6.900 | 879.442 |
| 6.900 | 886.498 | 6.900 | 893.554 | 6.900 | 900.609 | 6.900 | 907.665 | 6.900 | 914.721 |
| 6.900 | 921.777 | 6.900 | 928.833 | 6.900 | 935.888 | 6.900 | 942.944 | 6.900 | 950.000 |
| 6.900 | 957.058 | 6.900 | 1000.000 | | | | | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.265 | 10.000 | 2.205 | 60.000 | 3.867 | 86.000 | 5.102 | 105.000 |
| 6.242 | 110.000 | 4.200 | 125.000 | 4.675 | 139.000 | 9.092 | 151.000 | 8.570 | 167.000 |
| 5.625 | 178.000 | 2.585 | 204.000 | 2.537 | 208.000 | 2.395 | 307.000 | 1.920 | 327.000 |
| 1.253 | 338.000 | 2.500 | 351.000 | 2.490 | 373.000 | 2.490 | 494.458 | 4.971 | 498.429 |
| 6.900 | 501.516 | 6.900 | 505.485 | 6.900 | 512.540 | 6.900 | 519.596 | 6.900 | 526.652 |
| 6.900 | 533.708 | 6.900 | 540.764 | 6.900 | 547.819 | 6.900 | 554.875 | 6.900 | 561.931 |
| 6.900 | 568.987 | 6.900 | 576.043 | 6.900 | 583.098 | 6.900 | 590.154 | 6.900 | 597.210 |
| 6.900 | 604.266 | 6.900 | 611.322 | 6.900 | 618.377 | 6.900 | 625.433 | 6.900 | 632.489 |
| 6.900 | 639.545 | 6.900 | 646.601 | 6.900 | 653.656 | 6.900 | 660.712 | 6.900 | 667.768 |
| 6.900 | 674.824 | 6.900 | 681.880 | 6.900 | 688.935 | 6.900 | 695.991 | 6.900 | 703.047 |
| 6.900 | 710.103 | 6.900 | 717.159 | 6.900 | 724.214 | 6.900 | 731.270 | 6.900 | 738.326 |
| 6.900 | 745.382 | 6.900 | 752.438 | 6.900 | 759.493 | 6.900 | 766.549 | 6.900 | 773.605 |
| 6.900 | 780.661 | 6.900 | 787.717 | 6.900 | 794.772 | 6.900 | 801.828 | 6.900 | 808.884 |
| 6.900 | 815.940 | 6.900 | 822.996 | 6.900 | 830.051 | 6.900 | 837.107 | 6.900 | 844.163 |
| 6.900 | 851.219 | 6.900 | 858.275 | 6.900 | 865.330 | 6.900 | 872.386 | 6.900 | 879.442 |
| 6.900 | 886.498 | 6.900 | 893.554 | 6.900 | 900.609 | 6.900 | 907.665 | 6.900 | 914.721 |
| 6.900 | 921.777 | 6.900 | 928.833 | 6.900 | 935.888 | 6.900 | 942.944 | 6.900 | 950.000 |
| 6.900 | 957.058 | 6.900 | 1000.000 | | | | | | |

* * * * * TRANSECT NUMBER 8.000 * * * * * WAVE HEIGHT INPUT GENERATOR

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 8.000

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 9

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 9.000 | 23.000 | -135.000 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -2300.000 | -24.000 | -1725.000 | -18.000 | -1150.000 | -15.000 | -1020.000 | -12.000 | -890.000 |
| GR | -9.000 | -715.000 | -6.000 | -540.000 | -3.000 | -270.000 | -1.500 | -135.000 | .000 | .000 |
| GR | .200 | 1.000 | 6.400 | 81.000 | 10.700 | 104.000 | 14.600 | 108.000 | 20.000 | 126.000 |
| GR | 13.500 | 136.000 | 10.000 | 147.000 | 10.100 | 155.000 | 8.200 | 223.000 | 5.900 | 395.000 |
| GR | 5.900 | 453.000 | 5.900 | 950.000 | 5.900 | 1000.000 | | | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 9.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.107 CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 2327.946
EROSION AREA = 2328.107

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2500.000 | -24.000 | -1725.000 | -18.000 | -1150.000 | -15.000 | -1020.000 | -14.687 | -1006.443 |
| -6.952 | -932.843 | -6.482 | -890.000 | -5.059 | -715.000 | -3.635 | -540.000 | -2.212 | -270.000 |
| -1.500 | -135.000 | -.788 | .000 | -.693 | 1.000 | 2.249 | 81.000 | 4.289 | 104.000 |
| 6.140 | 108.030 | 8.702 | 126.000 | 5.618 | 136.000 | 3.957 | 147.000 | 4.004 | 155.000 |
| 3.103 | 225.000 | 2.011 | 395.000 | 2.011 | 453.000 | 2.011 | 486.686 | 3.835 | 489.604 |
| 5.900 | 492.910 | 5.900 | 495.826 | 5.900 | 502.047 | 5.900 | 508.269 | 5.900 | 514.491 |
| 5.900 | 520.712 | 5.900 | 526.934 | 5.900 | 533.155 | 5.900 | 539.377 | 5.900 | 545.598 |
| 5.900 | 551.820 | 5.900 | 558.042 | 5.900 | 564.263 | 5.900 | 570.485 | 5.900 | 576.706 |
| 5.900 | 582.928 | 5.900 | 589.149 | 5.900 | 595.371 | 5.900 | 601.592 | 5.900 | 607.814 |
| 5.900 | 614.036 | 5.900 | 620.257 | 5.900 | 626.479 | 5.900 | 632.700 | 5.900 | 638.922 |
| 5.900 | 645.143 | 5.900 | 651.365 | 5.900 | 657.587 | 5.900 | 663.808 | 5.900 | 670.030 |
| 5.900 | 676.251 | 5.900 | 682.473 | 5.900 | 688.694 | 5.900 | 694.916 | 5.900 | 701.137 |
| 5.900 | 707.359 | 5.900 | 713.581 | 5.900 | 719.802 | 5.900 | 726.024 | 5.900 | 732.245 |
| 5.900 | 738.467 | 5.900 | 744.688 | 5.900 | 750.910 | 5.900 | 757.132 | 5.900 | 763.353 |
| 5.900 | 769.575 | 5.900 | 775.796 | 5.900 | 782.018 | 5.900 | 788.239 | 5.900 | 794.461 |
| 5.900 | 800.682 | 5.900 | 806.904 | 5.900 | 813.126 | 5.900 | 819.347 | 5.900 | 825.569 |
| 5.900 | 831.790 | 5.900 | 838.012 | 5.900 | 844.233 | 5.900 | 850.455 | 5.900 | 856.677 |
| 5.900 | 862.898 | 5.900 | 869.120 | 5.900 | 875.341 | 5.900 | 881.563 | 5.900 | 887.784 |
| 5.900 | 894.006 | 5.900 | 900.227 | 5.900 | 906.449 | 5.900 | 912.671 | 5.900 | 918.892 |
| 5.900 | 925.114 | 5.900 | 931.335 | 5.900 | 937.557 | 5.900 | 943.778 | 5.900 | 950.000 |
| 5.900 | 956.223 | 5.900 | 1000.000 | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 9.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | -.200 | 1.000 | 6.400 | 81.000 | 10.700 | 104.000 | 14.600 | 108.000 |
| 20.000 | 126.000 | 13.500 | 136.000 | 10.000 | 147.000 | 10.100 | 155.000 | 8.200 | 223.000 |
| 5.900 | 395.000 | 5.900 | 453.000 | 5.900 | 486.686 | 5.900 | 489.604 | 5.900 | 492.910 |
| 5.900 | 495.826 | 5.900 | 502.047 | 5.900 | 508.269 | 5.900 | 514.491 | 5.900 | 520.712 |
| 5.900 | 526.934 | 5.900 | 533.155 | 5.900 | 539.377 | 5.900 | 545.598 | 5.900 | 551.820 |
| 5.900 | 558.042 | 5.900 | 564.263 | 5.900 | 570.485 | 5.900 | 576.706 | 5.900 | 582.928 |
| 5.900 | 589.149 | 5.900 | 595.371 | 5.900 | 601.592 | 5.900 | 607.814 | 5.900 | 614.036 |
| 5.900 | 620.257 | 5.900 | 626.479 | 5.900 | 632.700 | 5.900 | 638.922 | 5.900 | 645.143 |
| 5.900 | 651.365 | 5.900 | 657.587 | 5.900 | 663.808 | 5.900 | 670.030 | 5.900 | 676.251 |
| 5.900 | 682.473 | 5.900 | 688.694 | 5.900 | 694.916 | 5.900 | 701.137 | 5.900 | 707.359 |
| 5.900 | 713.581 | 5.900 | 719.802 | 5.900 | 726.024 | 5.900 | 732.245 | 5.900 | 738.467 |
| 5.900 | 744.688 | 5.900 | 750.910 | 5.900 | 757.132 | 5.900 | 763.353 | 5.900 | 769.575 |
| 5.900 | 775.796 | 5.900 | 782.018 | 5.900 | 788.239 | 5.900 | 794.461 | 5.900 | 800.682 |
| 5.900 | 806.904 | 5.900 | 813.126 | 5.900 | 819.347 | 5.900 | 825.569 | 5.900 | 831.790 |
| 5.900 | 838.012 | 5.900 | 844.233 | 5.900 | 850.455 | 5.900 | 856.677 | 5.900 | 862.898 |
| 5.900 | 869.120 | 5.900 | 875.341 | 5.900 | 881.563 | 5.900 | 887.784 | 5.900 | 894.006 |
| 5.900 | 900.227 | 5.900 | 906.449 | 5.900 | 912.671 | 5.900 | 918.892 | 5.900 | 925.114 |
| 5.900 | 931.335 | 5.900 | 937.557 | 5.900 | 943.778 | 5.900 | 950.000 | 5.900 | 956.223 |
| 5.900 | 1000.000 | | | | | | | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.693 | 1.000 | 2.249 | 81.000 | 4.289 | 104.000 | 6.140 | 108.000 |
| 8.702 | 126.000 | 5.618 | 136.000 | 3.957 | 147.000 | 4.004 | 155.000 | 3.103 | 223.000 |
| 2.011 | 395.000 | 2.011 | 455.000 | 2.011 | 486.686 | 3.835 | 489.604 | 5.900 | 492.910 |
| 5.900 | 495.826 | 5.900 | 502.047 | 5.900 | 508.269 | 5.900 | 514.491 | 5.900 | 520.712 |
| 5.900 | 526.934 | 5.900 | 533.155 | 5.900 | 539.377 | 5.900 | 545.598 | 5.900 | 551.820 |
| 5.900 | 558.042 | 5.900 | 564.263 | 5.900 | 570.485 | 5.900 | 576.706 | 5.900 | 582.928 |
| 5.900 | 589.149 | 5.900 | 595.371 | 5.900 | 601.592 | 5.900 | 607.814 | 5.900 | 614.036 |
| 5.900 | 620.257 | 5.900 | 626.479 | 5.900 | 632.700 | 5.900 | 638.922 | 5.900 | 645.143 |
| 5.900 | 651.365 | 5.900 | 657.587 | 5.900 | 663.808 | 5.900 | 670.030 | 5.900 | 676.251 |
| 5.900 | 682.473 | 5.900 | 688.694 | 5.900 | 694.916 | 5.900 | 701.137 | 5.900 | 707.359 |
| 5.900 | 713.581 | 5.900 | 719.802 | 5.900 | 726.024 | 5.900 | 732.245 | 5.900 | 738.467 |
| 5.900 | 744.688 | 5.900 | 750.910 | 5.900 | 757.132 | 5.900 | 763.353 | 5.900 | 769.575 |
| 5.900 | 775.796 | 5.900 | 782.018 | 5.900 | 788.239 | 5.900 | 794.461 | 5.900 | 800.682 |
| 5.900 | 806.904 | 5.900 | 813.126 | 5.900 | 819.347 | 5.900 | 825.569 | 5.900 | 831.790 |
| 5.900 | 838.012 | 5.900 | 844.233 | 5.900 | 850.455 | 5.900 | 856.677 | 5.900 | 862.898 |
| 5.900 | 869.120 | 5.900 | 875.341 | 5.900 | 881.563 | 5.900 | 887.784 | 5.900 | 894.006 |
| 5.900 | 900.227 | 5.900 | 906.449 | 5.900 | 912.671 | 5.900 | 918.892 | 5.900 | 925.114 |
| 5.900 | 931.335 | 5.900 | 937.557 | 5.900 | 943.778 | 5.900 | 950.000 | 5.900 | 956.223 |
| 5.900 | 1000.000 | | | | | | | | |

* * * * * TRANSECT NUMBER 9.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 9.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 1.0 | -.7 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 19.9 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 81.0 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 104.0 | 4.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 108.0 | 4.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 126.0 | 8.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 130.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 147.0 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 155.0 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 223.0 | 3.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 395.0 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 453.0 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 486.7 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 489.6 | 5.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 492.9 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 495.8 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 502.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 508.3 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 514.5 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 520.7 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 526.9 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 533.2 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 539.4 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 545.6 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 551.8 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 558.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 564.3 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 570.5 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 576.7 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 582.9 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 589.1 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 595.4 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 601.6 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 607.8 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 614.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 620.3 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 626.5 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 632.7 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 638.9 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 645.1 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 651.4 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 657.6 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 663.8 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 670.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 10

T2 BEACH PROFILE - 5/86 CDE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 10.000 | 24.000 | -100.000 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -1800.000 | -24.000 | -1350.000 | -18.000 | -900.000 | -15.000 | -750.000 | -12.000 | -600.000 |
| GR | -9.000 | -500.000 | -6.000 | -400.000 | -3.000 | -200.000 | -1.500 | -100.000 | .000 | .000 |
| GR | .300 | 9.000 | 6.000 | 73.000 | 11.000 | 92.000 | 15.400 | 102.000 | 21.600 | 115.000 |
| GR | 22.600 | 141.000 | 17.700 | 154.000 | 11.500 | 179.000 | 9.000 | 199.000 | 8.700 | 216.000 |
| GR | 7.500 | 263.000 | 5.100 | 462.000 | 5.600 | 504.000 | 5.600 | 1000.000 | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 10.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1642.674
EROSION AREA = 1642.337

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -50.000 | -1800.000 | -24.000 | -1350.000 | -18.000 | -900.000 | -15.000 | -750.000 | -14.607 | -720.373 |
| -6.952 | -649.435 | -6.482 | -600.000 | -5.059 | -500.000 | -3.635 | -400.000 | -2.212 | -200.000 |
| -1.500 | -100.000 | -.788 | .000 | -.646 | 9.000 | 2.059 | 73.000 | 4.431 | 92.000 |
| 6.519 | 102.000 | 9.461 | 115.000 | 9.936 | 161.000 | 7.611 | 154.000 | 4.669 | 179.000 |
| 3.482 | 199.000 | 3.340 | 216.000 | 2.841 | 257.199 | 6.465 | 263.000 | 7.480 | 264.624 |
| 7.410 | 270.425 | 5.100 | 462.000 | 5.600 | 504.000 | 5.600 | 1000.000 | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 10.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | -.300 | 9.000 | 6.000 | 73.000 | 11.000 | 92.000 | 15.400 | 102.000 |
| 21.600 | 115.000 | 22.600 | 141.000 | 17.700 | 154.000 | 11.500 | 179.000 | 9.000 | 199.000 |
| 8.700 | 216.000 | 7.648 | 257.199 | 7.500 | 263.000 | 7.480 | 264.624 | 7.410 | 270.425 |
| 5.100 | 462.000 | 5.600 | 504.000 | 5.600 | 1000.000 | | | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.646 | 9.000 | 2.059 | 73.000 | 4.431 | 92.000 | 6.519 | 102.000 |
| 9.461 | 115.000 | 9.936 | 141.000 | 7.611 | 154.000 | 4.669 | 179.000 | 3.482 | 199.000 |
| 3.340 | 216.000 | 2.841 | 257.199 | 6.465 | 263.000 | 7.480 | 264.624 | 7.410 | 270.425 |
| 5.100 | 462.000 | 5.600 | 504.000 | 5.600 | 1000.000 | | | | |

* * * * * TRANSECT NUMBER 10.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 10.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 9.0 | -.6 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 24.3 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 73.0 | 2.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 92.0 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 102.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 115.0 | 9.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 141.0 | 9.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 156.0 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 179.0 | 4.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 199.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 216.0 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 257.2 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 263.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 264.6 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 270.4 | 7.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 462.0 | 5.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 504.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 574.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 11

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 11.000 | 25.000 | -122.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -2000.000 | -24.000 | -1520.000 | -18.000 | -1040.000 | -15.000 | -910.000 | -12.000 | -780.000 |
| GR | -9.000 | -630.000 | -6.000 | -490.000 | -3.000 | -245.000 | -1.500 | -122.500 | .000 | .000 |
| GR | .200 | 12.000 | 6.800 | 112.000 | 11.300 | 141.000 | 12.000 | 147.000 | 15.500 | 165.000 |
| GR | 14.500 | 177.000 | 8.900 | 195.000 | 8.500 | 212.000 | 8.800 | 264.000 | 8.900 | 306.000 |
| GR | 8.800 | 351.000 | 8.500 | 383.000 | 7.700 | 458.000 | 7.200 | 571.000 | 7.200 | 1000.000 |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 11.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 2055.021
EROSION AREA = 2054.653

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2000.000 | -24.000 | -1520.000 | -18.000 | -1040.000 | -15.000 | -910.000 | -14.687 | -896.443 |
| -6.952 | -822.843 | -6.482 | -780.000 | -5.059 | -630.000 | -3.635 | -490.000 | -2.212 | -245.000 |
| -1.500 | -122.500 | -.786 | .000 | -.693 | 12.000 | 2.438 | 112.000 | 4.574 | 141.000 |
| 4.906 | 147.000 | 6.567 | 165.000 | 6.092 | 177.000 | 3.435 | 195.000 | 3.245 | 212.000 |
| 3.387 | 264.000 | 3.435 | 306.000 | 3.387 | 351.000 | 3.245 | 383.000 | 3.123 | 407.132 |
| 5.494 | 410.927 | 8.157 | 415.188 | 8.117 | 418.943 | 8.032 | 426.897 | 7.948 | 434.776 |
| 7.864 | 442.586 | 7.782 | 450.327 | 7.700 | 458.000 | 7.666 | 465.682 | 7.200 | 571.000 |
| 7.200 | 1000.000 | | | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 11.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | -.200 | 12.000 | 6.800 | 112.000 | 11.300 | 141.000 | 12.000 | 147.000 |
| 15.500 | 165.000 | 14.500 | 177.000 | 8.900 | 195.000 | 8.500 | 212.000 | 8.800 | 264.000 |
| 8.900 | 306.000 | 3.800 | 351.000 | 8.500 | 383.000 | 8.243 | 407.132 | 8.202 | 410.927 |
| 8.157 | 415.138 | 8.117 | 418.948 | 8.032 | 426.897 | 7.948 | 434.776 | 7.864 | 442.586 |
| 7.782 | 450.327 | 7.700 | 458.000 | 7.666 | 465.682 | 7.200 | 571.000 | 7.200 | 1000.000 |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.693 | 12.000 | 2.438 | 112.000 | 4.574 | 141.000 | 4.906 | 147.000 |
| 6.567 | 165.000 | 6.092 | 177.000 | 3.435 | 195.000 | 3.245 | 212.000 | 3.387 | 264.000 |
| 3.435 | 306.000 | 3.387 | 351.000 | 3.245 | 383.000 | 3.123 | 407.132 | 5.494 | 410.927 |
| 8.157 | 415.138 | 8.117 | 418.948 | 8.032 | 426.897 | 7.948 | 434.776 | 7.864 | 442.586 |
| 7.782 | 450.327 | 7.700 | 458.000 | 7.666 | 465.682 | 7.200 | 571.000 | 7.200 | 1000.000 |

* * * * * TRANSECT NUMBER 11.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 11.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 12.0 | -.7 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 34.1 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 112.0 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 141.0 | 4.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 147.0 | 4.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 165.0 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 177.0 | 6.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 195.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 212.0 | 3.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 264.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 306.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 351.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 383.0 | 3.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 407.1 | 3.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 430.9 | 5.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 435.2 | 8.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 438.9 | 8.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 426.9 | 8.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 454.8 | 7.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 442.6 | 7.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 450.3 | 7.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 458.0 | 7.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 465.7 | 7.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 571.0 | 7.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 574.0 | 7.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 12

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 12.000 | 26.000 | -125.000 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -50.000 | -2000.000 | -24.000 | -1500.000 | -18.000 | -1000.000 | -15.000 | -850.000 | -12.000 | -700.000 |
| GR | -9.000 | -600.000 | -6.000 | -500.000 | -3.000 | -250.000 | -1.500 | -125.000 | -.800 | -62.500 |
| GR | .000 | .000 | .100 | 5.000 | 7.300 | 117.000 | 10.900 | 149.000 | 13.600 | 156.000 |
| GR | 20.100 | 165.000 | 13.900 | 191.000 | 10.700 | 214.000 | 9.600 | 243.000 | 7.000 | 281.000 |
| GR | 6.400 | 311.000 | 6.500 | 341.000 | 5.700 | 527.000 | 6.000 | 581.000 | 6.100 | 621.000 |
| GR | 6.400 | 674.000 | | | | | | | | |

LISTING OF OUTPUT

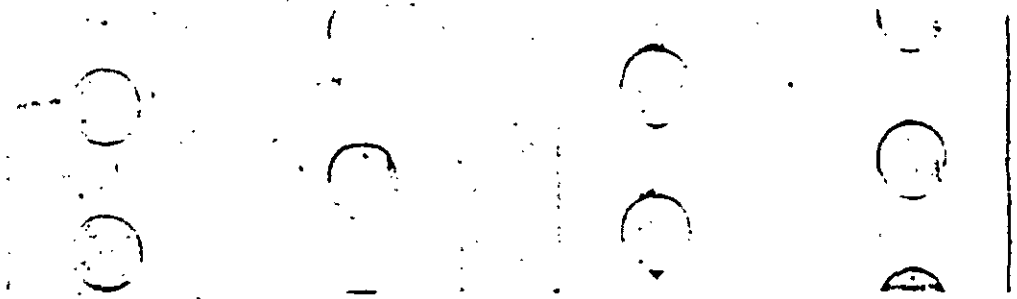
* * * * * TRANSECT NUMBER 12.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1731.350
EROSION AREA = 1731.254

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2000.000 | -24.000 | -1500.000 | -18.000 | -1000.000 | -15.000 | -850.000 | -14.407 | -820.373 |
| -6.952 | -749.435 | -6.482 | -700.000 | -5.059 | -600.000 | -3.635 | -500.000 | -2.212 | -250.000 |
| -1.500 | -125.000 | -1.168 | -62.500 | -.788 | .000 | -.741 | 5.000 | 2.676 | 117.000 |
| 4.384 | 149.000 | 5.665 | 156.000 | 8.749 | 165.000 | 5.807 | 191.000 | 4.289 | 214.000 |
| 3.767 | 243.000 | 2.533 | 281.000 | 2.249 | 311.000 | 2.295 | 340.157 | 2.822 | 361.000 |
| 6.475 | 346.846 | 6.471 | 347.682 | 5.700 | 527.000 | 6.000 | 581.000 | 6.100 | 621.000 |
| 6.400 | 674.000 | | | | | | | | |



ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 12.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | -.100 | 5.000 | 7.300 | 117.000 | 10.900 | 149.000 | 13.600 | 156.000 |
| 20.100 | 165.000 | 13.900 | 191.000 | 10.700 | 214.000 | 9.600 | 243.000 | 7.000 | 281.000 |
| 6.400 | 311.000 | 6.497 | 340.157 | 6.500 | 341.000 | 6.475 | 346.846 | 6.471 | 347.682 |
| 5.700 | 527.000 | 6.000 | 581.000 | 6.100 | 621.000 | 6.400 | 674.000 | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.741 | 5.000 | 2.676 | 117.000 | 4.384 | 149.000 | 5.665 | 156.000 |
| 8.749 | 165.000 | 5.807 | 191.000 | 4.289 | 214.000 | 3.767 | 243.000 | 2.533 | 281.000 |
| 2.249 | 311.000 | 2.295 | 340.157 | 2.822 | 341.000 | 6.475 | 346.846 | 6.471 | 347.682 |
| 5.700 | 527.000 | 6.000 | 581.000 | 6.100 | 621.000 | 6.400 | 674.000 | | |

* * * * * TRANSECT NUMBER 12.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 12.000

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IE .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF 5.0 | -.7 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF 29.3 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF 117.0 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 149.0 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 156.0 | 5.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 165.0 | 8.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 191.0 | 5.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 216.0 | 4.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 243.0 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 281.0 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 311.0 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 340.2 | 2.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 361.0 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 366.8 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 367.7 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 527.0 | 5.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 581.0 | 6.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 628.0 | 6.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 674.0 | 6.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 13

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 13.000 | 26.000 | -187.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -2050.000 | -24.000 | -1635.000 | -18.000 | -1220.000 | -15.000 | -1070.000 | -12.000 | -920.000 |
| GR | -9.000 | -835.000 | -6.000 | -750.000 | -3.000 | -375.000 | -1.500 | -187.500 | .000 | .000 |
| GR | .500 | 11.000 | 7.100 | 121.000 | 9.800 | 140.000 | 13.500 | 171.000 | 10.400 | 195.000 |
| GR | 3.000 | 227.000 | 7.100 | 270.000 | 7.900 | 286.000 | 6.900 | 320.000 | 6.800 | 360.000 |
| GR | 6.500 | 466.000 | 6.900 | 509.000 | 6.000 | 592.000 | 4.900 | 670.000 | 4.600 | 713.000 |
| GR | 4.600 | 1000.000 | | | | | | | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 13.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1834.805
EROSION AREA = 1834.591

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2050.000 | -24.000 | -1635.000 | -18.000 | -1220.000 | -15.000 | -1070.000 | -14.607 | -1040.373 |
| -6.952 | -969.435 | -6.482 | -920.000 | -5.059 | -835.000 | -3.635 | -750.000 | -2.212 | -375.000 |
| -1.500 | -187.500 | -.788 | .000 | -.551 | 11.000 | 2.581 | 121.000 | 3.862 | 140.000 |
| 5.613 | 171.000 | 4.147 | 195.000 | 3.008 | 227.000 | 2.581 | 270.000 | 2.960 | 288.000 |
| 2.486 | 320.000 | 2.438 | 360.000 | 2.392 | 394.939 | 4.406 | 398.162 | 6.682 | 401.805 |
| 6.673 | 405.019 | 6.653 | 411.859 | 6.634 | 418.683 | 6.615 | 425.491 | 6.595 | 432.282 |
| 6.576 | 439.058 | 6.557 | 445.817 | 6.538 | 452.561 | 6.519 | 459.288 | 6.500 | 466.000 |
| 6.564 | 472.829 | 6.900 | 509.000 | 6.000 | 592.000 | 4.900 | 670.000 | 4.600 | 713.000 |
| 4.600 | 1000.000 | | | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 13.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | .500 | 11.000 | 7.100 | 121.000 | 9.800 | 140.000 | 13.500 | 171.000 |
| 10.400 | 195.000 | 8.000 | 227.000 | 7.100 | 270.000 | 7.900 | 288.000 | 6.900 | 320.000 |
| 6.800 | 360.000 | 6.701 | 394.939 | 6.692 | 398.162 | 6.682 | 401.805 | 6.673 | 405.019 |
| 6.653 | 411.859 | 6.634 | 418.683 | 6.615 | 425.491 | 6.595 | 432.282 | 6.576 | 439.058 |
| 6.557 | 445.817 | 6.538 | 452.561 | 6.519 | 459.288 | 6.500 | 466.000 | 6.564 | 472.829 |
| 6.900 | 509.000 | 6.000 | 592.000 | 4.900 | 670.000 | 4.600 | 713.000 | 4.600 | 1000.000 |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.551 | 11.000 | 2.581 | 121.000 | 3.862 | 140.000 | 5.618 | 171.000 |
| 4.147 | 195.000 | 3.008 | 227.000 | 2.581 | 270.000 | 2.960 | 288.000 | 2.486 | 320.000 |
| 2.438 | 360.000 | 2.392 | 394.939 | 4.406 | 398.162 | 6.682 | 401.805 | 6.673 | 405.019 |
| 6.653 | 411.859 | 6.634 | 418.683 | 6.615 | 425.491 | 6.595 | 432.282 | 6.576 | 439.058 |
| 6.557 | 445.817 | 6.538 | 452.561 | 6.519 | 459.288 | 6.500 | 466.000 | 6.564 | 472.829 |
| 6.900 | 509.000 | 6.000 | 592.000 | 4.900 | 670.000 | 4.600 | 713.000 | 4.600 | 1000.000 |

* * * * * TRANSECT NUMBER 13.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 13.000

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IE .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF 11.0 | -.6 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF 30.6 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF 121.0 | 2.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 140.0 | 3.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 171.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 195.0 | 4.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 227.0 | 3.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 270.0 | 2.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 285.0 | 3.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 320.0 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 350.0 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 394.9 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 398.2 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 401.6 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 405.0 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 411.9 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 418.7 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 425.5 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 432.3 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 439.1 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 445.8 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 452.6 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 459.3 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 466.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 472.8 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 509.0 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 592.0 | 6.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 670.0 | 4.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 574.0 | 4.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 14

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 14.000 | 24.000 | -157.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -2190.000 | -24.000 | -1670.000 | -18.000 | -1150.000 | -15.000 | -1025.000 | -12.000 | -900.000 |
| GR | -9.000 | -765.000 | -6.000 | -630.000 | -3.000 | -315.000 | -1.500 | -157.500 | .000 | .000 |
| GR | .400 | 8.000 | 6.800 | 98.000 | 11.800 | 120.000 | 14.800 | 143.000 | 8.600 | 166.000 |
| GR | 8.900 | 200.000 | 7.800 | 271.000 | 7.600 | 333.000 | 7.300 | 390.000 | 6.600 | 483.000 |
| GR | 6.300 | 542.000 | 5.400 | 621.000 | 5.400 | 744.000 | 5.400 | 1000.000 | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 14.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 2085.670
EROSION AREA = 2085.059

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2190.000 | -24.000 | -1670.000 | -18.000 | -1150.000 | -15.000 | -1025.000 | -14.775 | -1015.633 |
| -6.952 | -941.196 | -6.482 | -900.000 | -5.059 | -765.000 | -3.635 | -630.000 | -2.212 | -315.000 |
| -1.500 | -157.500 | -.788 | .000 | -.598 | 8.000 | 2.438 | 98.000 | 4.811 | 120.000 |
| 6.235 | 145.000 | 3.293 | 166.000 | 3.435 | 200.000 | 2.913 | 271.000 | 2.818 | 333.000 |
| 2.676 | 390.000 | 2.537 | 428.946 | 6.130 | 434.696 | 6.954 | 436.014 | 6.911 | 441.727 |
| 6.858 | 448.714 | 6.806 | 455.653 | 6.754 | 462.558 | 6.702 | 469.415 | 6.651 | 476.229 |
| 6.600 | 483.000 | 6.566 | 489.757 | 6.300 | 542.000 | 5.400 | 621.000 | 5.400 | 744.000 |
| 5.400 | 1000.000 | | | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 14.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | .400 | 8.000 | 6.800 | 98.000 | 11.800 | 120.000 | 14.300 | 143.000 |
| 8.600 | 166.000 | 8.900 | 200.000 | 7.800 | 271.000 | 7.600 | 333.000 | 7.300 | 390.000 |
| 7.007 | 428.946 | 6.964 | 434.696 | 6.954 | 436.014 | 6.911 | 441.727 | 6.858 | 448.714 |
| 6.806 | 455.658 | 6.754 | 462.558 | 6.702 | 469.415 | 6.651 | 476.229 | 6.600 | 483.000 |
| 6.566 | 489.757 | 6.300 | 542.000 | 5.400 | 621.000 | 5.400 | 744.000 | 5.400 | 1000.000 |

AFTER STORM TRANSECT:

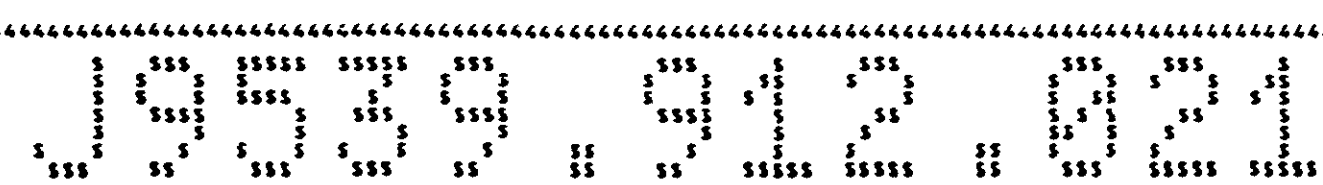
| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.598 | 8.000 | 2.438 | 98.000 | 4.811 | 120.000 | 6.235 | 143.000 |
| 3.293 | 166.000 | 3.435 | 200.000 | 2.913 | 271.000 | 2.818 | 333.000 | 2.676 | 390.000 |
| 2.537 | 428.946 | 6.130 | 434.696 | 6.954 | 436.014 | 6.911 | 441.727 | 6.858 | 448.714 |
| 6.806 | 455.658 | 6.754 | 462.558 | 6.702 | 469.415 | 6.651 | 476.229 | 6.600 | 483.000 |
| 6.566 | 489.757 | 6.300 | 542.000 | 5.400 | 621.000 | 5.400 | 744.000 | 5.400 | 1000.000 |

* * * * * TRANSECT NUMBER 14.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 14.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.3 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 8.0 | -.5 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 25.7 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 98.0 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 120.0 | 4.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 143.0 | 6.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 166.0 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 200.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 271.0 | 2.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 353.0 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 390.0 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 428.9 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 454.7 | 6.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 436.0 | 7.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 461.7 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 448.7 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 455.7 | 6.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 462.6 | 6.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 469.4 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 476.2 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 483.0 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 489.8 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 542.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 621.0 | 5.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 5.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |



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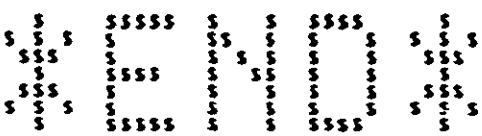


Greenhorne & O'Mara Inc-MV8000/A

AOS/VS REV 06.04
AOS/VS XLPT REV 05.00

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 1.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 21.800 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 38.000 | .600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 75.000 | 1.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 119.000 | 2.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 126.000 | 3.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 150.000 | 4.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 166.000 | 5.700 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 197.000 | 5.000 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 242.000 | 2.900 | .000 | 9.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 316.000 | 3.300 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 400.500 | 3.200 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 405.000 | 6.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 408.800 | 8.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 411.200 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 476.000 | 7.200 | .000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 507.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 574.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

SR 1965

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 21.800 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 38.000 | .600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 75.000 | 1.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 119.000 | 2.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 126.000 | 3.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 150.000 | 4.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 166.000 | 5.700 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 197.000 | 3.000 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 242.000 | 2.900 | .000 | 9.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 316.000 | 3.500 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 400.500 | 3.200 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 405.000 | 6.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 408.800 | 8.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 413.200 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 476.000 | 7.200 | .000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 507.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 574.000 | 6.600 | .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 | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 21.80 | 8.03 | 15.92 |
| IF | 38.00 | 7.57 | 15.60 |
| IF | 75.00 | 6.55 | 14.89 |
| IF | 119.00 | 6.24 | 14.67 |
| IF | 126.00 | 5.15 | 13.90 |
| IF | 150.00 | 4.68 | 13.58 |
| IF | 166.00 | 3.59 | 12.81 |
| IF | 197.00 | 3.59 | 12.71 |
| IF | 242.00 | 3.59 | 12.41 |
| IF | 316.00 | 3.59 | 11.91 |
| IF | 400.50 | 3.59 | 11.31 |
| IF | 405.00 | 1.95 | 9.86 |
| IF | 408.80 | .00 | 8.45 |
| AS | 413.20 | .00 | 8.40 |
| AS | 476.00 | .00 | 7.20 |
| IF | 507.00 | .00 | 7.20 |
| IF | 674.00 | .04 | 7.23 |

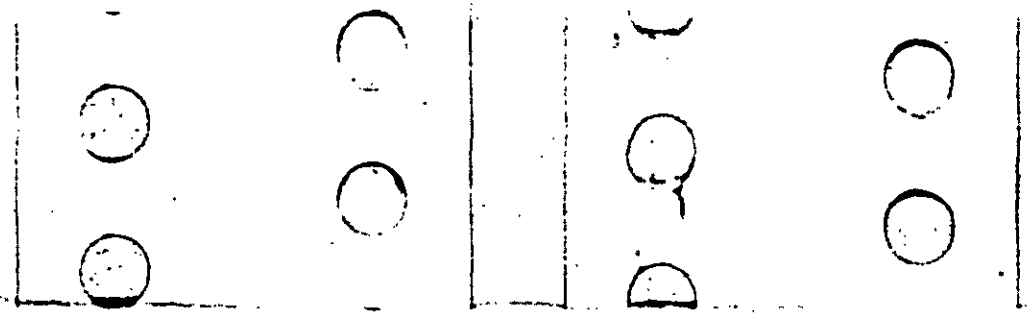
PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 408.80 AND 413.20

BETWEEN 413.20 AND 476.00

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 197.00 | 6.30 | 10.10 |
| 242.00 | 6.30 | 9.70 |
| 316.00 | 6.30 | 9.10 |



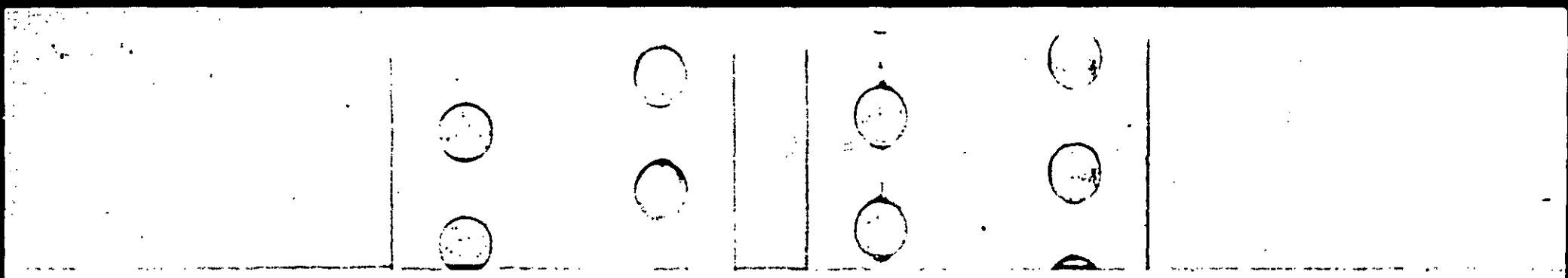
| | | |
|---|---|---|
| 400.50 | 6.30 | 8.50 |
| 408.80 | 6.30 | 8.40 |
| 476.00 | 6.30 | 7.20 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 402.12 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF | | FINAL MAPPED ZONES |
|---|---|---|---|---|---|
| .00 | 15.92 | V12 EL=16 | 60 | V12 EL=16 | V12 EL=16 |
| 43.01 | 15.50 | V12 EL=15 | 60 | V12 EL=15 | V12 EL=15 |
| 120.54 | 14.50 | V12 EL=14 | 60 | V12 EL=14 | V12 EL=14 |
| 151.59 | 13.50 | V12 EL=13 | 60 | V12 EL=13 | V12 EL=13 |
| 166.00 | 12.81 | V12 EL=13 | 60 | | |
| 197.00 | 12.71 | V11 EL=13 | 55 | | |
| 228.76 | 12.50 | V10 EL=12 | 50 | | |
| 242.00 | 12.41 | V 9 EL=12 | 45 | V12 EL=12 | V12 EL=12 |
| 316.00 | 11.91 | V 8 EL=12 | 40 | | |
| 373.99 | 11.50 | V 7 EL=11 | 35 | V12 EL=11 | V12 EL=11 |
| 400.50 | 11.31 | | | | |



| | | | | |
|---|---|---|---|---|
| | | | V 7 EL=11 | 35 |
| | 402.12 | 10.60 | | |
| | | | A 2 EL=11 | 10 |
| | 403.02 | 10.50 | | |
| | | | A 2 EL=10 | 10 |
| | 405.00 | 9.86 | | |
| | | | A 2 EL=10 | 10 |
| | 405.98 | 9.50 | | |
| | | | A 2 EL= 9 | 10 |
| | 408.67 | 8.50 | | |
| | | | A 2 EL= 8 | 10 |
| | 408.80 | 8.45 | | |
| | 413.20 | 8.40 | | |
| SR 151B → | 476.00 | 7.20 | | |
| | | | A 2 EL= 7 | 10 |
| | 674.00 | 7.23 | | |

V12 FL = 11

ZONE B

MATCH A9 EL=8

V12 FL=11

A9 EL=9

A9 EL=8

ZONE TERMINATED AT END OF TRANSECT

Oft

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 2.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 26.200 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 63.000 | 1.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 103.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 124.000 | 3.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 125.000 | 3.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 202.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 222.000 | 7.000 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 243.000 | 5.200 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 273.000 | 3.700 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 336.000 | 3.800 | .000 | 9.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 361.600 | 3.600 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 367.400 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 370.300 | 9.000 | .000 | 9.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 376.000 | 8.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 384.600 | 8.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 416.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 483.000 | 7.600 | .000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 543.000 | 6.700 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 585.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 674.000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

SA 15 C E

| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 26.200 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 63.000 | 1.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 103.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 124.000 | 3.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 125.000 | 3.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 202.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 222.000 | 7.000 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 243.000 | 5.200 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 273.000 | 3.700 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 336.000 | 3.800 | .000 | 9.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 361.600 | 3.600 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 367.400 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 370.300 | 9.000 | .000 | 9.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 376.000 | 8.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 384.600 | 8.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 416.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 486.000 | 7.600 | .000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 543.000 | 6.700 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 588.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 674.000 | 10.300 | .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 | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 26.20 | 8.03 | 15.92 |
| IF | 63.00 | 7.18 | 15.32 |
| IF | 103.00 | 6.32 | 14.72 |
| IF | 124.00 | 5.46 | 14.12 |
| IF | 125.00 | 5.38 | 14.07 |
| IF | 202.00 | 4.99 | 13.79 |
| IF | 222.00 | 2.57 | 12.10 |
| IF | 243.00 | 2.57 | 12.00 |
| IF | 273.00 | 2.57 | 11.80 |
| IF | 336.00 | 2.58 | 11.40 |
| IF | 361.60 | 2.58 | 11.00 |
| IF | 367.40 | 1.48 | 10.14 |
| IF | 370.30 | .00 | 9.05 |
| AS | 376.00 | .00 | 8.90 |
| AS | 384.60 | .00 | 8.80 |
| AS | 416.00 | .00 | 8.50 |
| AS | 438.00 | .00 | 7.60 |
| IF | 543.00 | .00 | 7.30 |
| IF | 588.00 | .01 | 7.01 |
| AS | 674.00 | -2.57 | 10.30 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

| | | | |
|---|---|---|---|
| BETWEEN | 370.30 | AND | 376.00 |
| BETWEEN | 376.00 | AND | 384.60 |
| BETWEEN | 384.60 | AND | 416.00 |
| BETWEEN | 416.00 | AND | 488.00 |
| BETWEEN | 588.00 | AND | 674.00 |

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 243.00 | 6.30 | 10.10 |
| 273.00 | 6.30 | 9.90 |
| 336.00 | 6.30 | 9.30 |
| 361.60 | 6.30 | 9.10 |
| 370.30 | 6.30 | 9.00 |
| 488.00 | 6.30 | 7.60 |
| 543.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 218.48 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 52.17 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 110.78 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 205.48 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 217.29 | 12.50 | | |
| | | V12 EL=12 | 60 |
| 218.48 | 12.40 | | |
| | | A 7 EL=12 | 35 |
| 222.00 | 12.10 | | |
| | | A 7 EL=12 | 35 |

FINAL MAPPED 2011

V12 EL=16

V12 EL=15

V12 EL=14

V12 EL=13

V12 EL=12

A4 EL=12

A7 EL=12

| | | | | |
|---|---|---|---|---|
| | 243.00 | 12.00 | | |
| | | | A 7 EL=12 | 35 |
| | 273.00 | 11.80 | | |
| | | | A 7 EL=12 | 35 |
| | 320.88 | 11.50 | | |
| | | | A 7 EL=11 | 35 |
| | 336.00 | 11.40 | | |
| | | | A 7 EL=11 | 35 |
| | 361.60 | 11.00 | | |
| | | | A 7 EL=11 | 35 |
| | 364.98 | 10.50 | | |
| | | | A 7 EL=10 | 35 |
| | 367.40 | 10.14 | | |
| | | | A 7 EL=10 | 35 |
| | 369.10 | 9.50 | | |
| | | | A 7 EL= 9 | 35 |
| | 370.30 | 9.05 | | |
| | 376.00 | 8.90 | | |
| | 384.60 | 8.80 | | |
| | 416.00 | 8.50 | | |
| SR 1572 → | 488.00 | 7.60 | | |
| | | | A 7 EL= 8 | 35 |
| | 506.46 | 7.50 | | |
| | | | A 7 EL= 7 | 35 |
| | 543.00 | 7.30 | | |
| | | | A 7 EL= 7 | 35 |
| | 588.00 | 7.01 | | |
| | 674.00 | 10.30 | | |

A4 EL=12

A4 EL=11

> ONE B

MATCH A9 EL=8

A4 EL=12

A4 EL=9

A9 EL=5

OF

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 3.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 28.900 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 101.000 | 2.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 108.000 | 2.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 151.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 167.000 | 4.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 234.000 | 5.600 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 249.000 | 5.200 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 264.000 | 3.400 | .000 | 9.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 295.000 | 3.900 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 349.400 | 3.300 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 355.000 | 6.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 357.700 | 8.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 363.100 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 413.000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 527.000 | 7.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 539.000 | 6.700 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 576.000 | 6.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | END STATION 1.000 | 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 |
| OF | END STATION 28.900 | 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 101.000 | 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 108.000 | END ELEVATION 2.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 151.000 | END ELEVATION 3.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 167.000 | END ELEVATION 4.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 234.000 | END ELEVATION 5.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 249.000 | END ELEVATION 5.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 264.000 | END ELEVATION 3.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.800 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 295.000 | END ELEVATION 3.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 349.400 | END ELEVATION 3.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 355.000 | END ELEVATION 6.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 357.700 | 8.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 363.100 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 493.000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 527.000 | 7.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 639.000 | 6.700 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 674.000 | 6.200 | .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 | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 28.90 | 8.03 | 15.92 |
| IF | 101.00 | 6.47 | 14.83 |
| IF | 108.00 | 5.93 | 14.45 |
| IF | 151.00 | 4.99 | 13.79 |
| IF | 167.00 | 4.52 | 13.47 |
| IF | 234.00 | 3.67 | 12.87 |
| IF | 249.00 | 3.67 | 12.77 |
| IF | 264.00 | 3.67 | 12.52 |
| IF | 295.00 | 3.67 | 12.17 |
| IF | 349.40 | 3.67 | 11.52 |
| IF | 355.00 | 1.33 | 9.43 |
| IF | 357.70 | .00 | 8.45 |
| AS | 363.10 | .00 | 8.30 |
| AS | 413.00 | .00 | 7.20 |
| AS | 527.00 | .00 | 7.10 |
| IF | 639.00 | .01 | 7.05 |
| IF | 674.00 | .01 | 7.01 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 357.70 AND 363.10
BETWEEN 363.10 AND 413.00
BETWEEN 413.00 AND 527.00

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 249.00 | 6.30 | 10.10 |
| 264.00 | 6.30 | 9.80 |

| | | |
|---|---|---|
| 295.00 | 6.30 | 9.40 |
| 349.40 | 6.30 | 8.50 |
| 357.70 | 6.30 | 8.40 |
| 527.00 | 6.30 | 7.10 |
| 639.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 350.99 | WINDWARD |

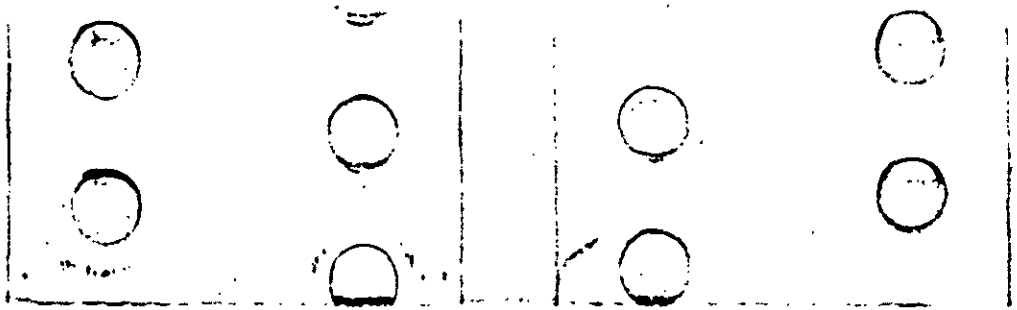
PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | | FHF |
|---|---|---|---|---|
| .00 | 15.92 | | | |
| | | V12 | EL=16 | 60 |
| 56.98 | 15.50 | | | |
| | | V12 | EL=15 | 60 |
| 107.08 | 14.50 | | | |
| | | V12 | EL=14 | 60 |
| 165.38 | 13.50 | | | |
| | | V12 | EL=13 | 60 |
| 234.00 | 12.87 | | | |
| | | V12 | EL=13 | 60 |
| 249.00 | 12.77 | | | |
| | | V11 | EL=13 | 55 |
| 264.00 | 12.52 | | | |
| | | V10 | EL=13 | 50 |
| 265.43 | 12.50 | | | |
| | | V 9 | EL=12 | 45 |
| 295.00 | 12.17 | | | |
| | | V 8 | EL=12 | 40 |
| 349.40 | 11.52 | | | |

FINAL MAPPED ZONE:

V12 EL=16

V12 EL 14



| | | | |
|---|---|---|---|
| | | V 7 EL=12 | 35 |
| 349.44 | 11.50 | | |
| | | V 7 EL=11 | 35 |
| 350.99 | 10.60 | | |
| | | A 2 EL=11 | 10 |
| 352.13 | 10.50 | | |
| | | A 2 EL=10 | 10 |
| 354.81 | 9.50 | | |
| | | A 2 EL= 9 | 10 |
| 355.00 | 9.43 | | |
| | | A 2 EL= 9 | 10 |
| 357.56 | 8.50 | | |
| | | A 2 EL= 8 | 10 |
| 357.70 | 8.45 | | |
| 363.10 | 8.30 | | |
| 413.00 | 7.20 | | |
| 527.00 | 7.10 | | |
| | | A 2 EL= 7 | 10 |
| 639.00 | 7.05 | | |
| | | A 2 EL= 7 | 10 |
| 674.00 | 7.01 | | |

NEW SR 15CR → 639.00

ZONE TERMINATED AT END OF TRANSECT

V12 EL=12

V12 EL=12

A 4
EL=8

ZONE B

MATCH A9 EL=7

A9 EL=7

011

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 4.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 25.600 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 56.000 | -.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 72.000 | 2.800 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 103.000 | 1.800 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 108.000 | 1.900 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 282.000 | 1.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 383.000 | 1.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 584.100 | 1.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 587.600 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 588.800 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 593.400 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 598.000 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 602.600 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 674.000 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

S.H. 196B

| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 25.600 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 54.000 | .900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 72.000 | 2.800 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 103.000 | 1.800 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 108.000 | 1.900 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 282.000 | 1.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 583.000 | 1.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 584.100 | 1.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 587.600 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 588.300 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 593.400 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 598.000 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 602.600 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 574.000 | 4.000 | .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 | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 25.60 | 8.03 | 15.92 |
| IF | 54.00 | 7.33 | 15.43 |
| IF | 72.00 | 5.85 | 14.40 |
| IF | 103.00 | 4.45 | 12.01 |
| IF | 108.00 | 3.98 | 10.03 |
| IF | 282.00 | 3.98 | 9.78 |
| IF | 583.00 | 3.98 | 9.78 |
| IF | 584.10 | 3.98 | 9.78 |
| IF | 587.60 | 2.34 | 8.64 |
| IF | 588.80 | 2.34 | 8.64 |
| IF | 593.40 | 2.34 | 8.64 |
| IF | 598.00 | 2.34 | 8.64 |
| IF | 602.60 | 2.34 | 8.64 |
| IF | 674.00 | 2.34 | 8.64 |

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 2.34 WHICH EXCEEDS 0.5.

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

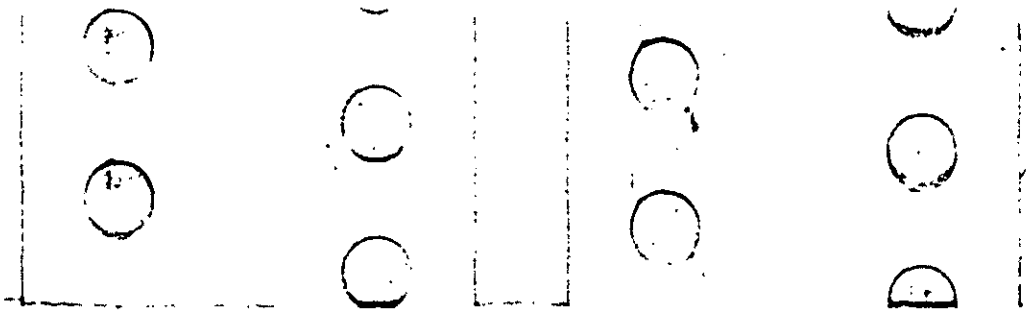
NO AREAS ABOVE 100-YEAR SURGE IN THIS TRANSECT

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 103.00 | 6.30 | 7.50 |
| 108.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 586.19 | WINDWARD |



PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF | | |
|---|---|---|---|---|---|
| .00 | 15.92 | | | | FINAL MAPPED ZONES |
| | | V12 EL=16 | 60 | V12 EL=16 | |
| 50.09 | 15.50 | | | | V12 EL=16 |
| | | V12 EL=15 | 60 | V12 EL=15 | |
| 70.18 | 14.50 | | | | |
| | | V10 EL=14 | 50 | | |
| 72.00 | 14.40 | | | | |
| | | V 8 EL=14 | 40 | V12 EL=14 | |
| 83.64 | 13.50 | | | | V12 EL=14 |
| | | V 8 EL=13 | 40 | | |
| 96.65 | 12.50 | | | | |
| | | V 6 EL=12 | 30 | | |
| 103.00 | 12.01 | | | | |
| | | V 3 EL=12 | 15 | V12 EL=12 | |
| 104.30 | 11.50 | | | | V12 EL12 |
| | | V 3 EL=11 | 15 | | |
| 106.82 | 10.50 | | | | |
| | | V 3 EL=10 | 15 | | |
| SA 1968 → 108.00 | 10.03 | | | V12 EL=10 | |
| | | V 2 EL=10 | 10 | | V12 EL=10 |
| 584.97 | 9.50 | | | | |
| | | V 2 EL= 9 | 10 | | |
| 586.19 | 9.10 | | | | |
| | | A 5 EL= 9 | 25 | A9 FL=9 | A9 FL=9 |
| 674.00 | 8.64 | | | | |

1170'

ZONE TERMINATED AT END OF TRANSECT

MATCH A= 11 7

A- FL=7

OK

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 5.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 12.000 | -.200 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 15.300 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 57.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 66.000 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 76.000 | 6.300 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 96.000 | 3.500 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 102.000 | 3.600 | .000 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 130.000 | 3.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 149.000 | 5.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 167.000 | 3.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 215.000 | 2.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 639.600 | 2.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 646.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 647.000 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 654.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 661.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 669.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 676.500 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 683.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 691.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 698.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 706.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 713.500 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 720.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 728.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 735.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 743.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 750.500 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| IS | 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 |
| OF | END STATION 12.000 | END ELEVATION -.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 15.300 | 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 57.000 | END ELEVATION 2.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 66.000 | 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 76.000 | END ELEVATION 6.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 96.000 | END ELEVATION 3.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 108.000 | END ELEVATION 3.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 130.000 | END ELEVATION 3.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 149.000 | END ELEVATION 5.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 167.000 | END ELEVATION 3.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 215.000 | END ELEVATION 2.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 439.600 | 2.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 446.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 447.000 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 454.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 461.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 469.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 476.500 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 483.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 491.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 498.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 506.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 513.500 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 520.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 528.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 535.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 543.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 550.500 | 7.300 | .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 | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 12.00 | 8.03 | 15.92 |
| OF | 15.30 | 8.03 | 15.92 |
| IF | 57.00 | 6.32 | 14.72 |
| IF | 66.00 | 4.91 | 13.74 |
| IF | 76.00 | 3.12 | 12.48 |
| IF | 96.00 | 3.12 | 11.48 |
| IF | 108.00 | 2.89 | 9.82 |
| IF | 130.00 | 2.89 | 9.32 |
| IF | 149.00 | 1.64 | 8.45 |
| IF | 167.00 | 1.64 | 8.45 |
| IF | 215.00 | 1.64 | 8.45 |
| IF | 439.60 | 1.67 | 8.47 |
| IF | 446.90 | .00 | 7.30 |
| AS | 4.7.00 | .00 | 7.30 |
| AS | 454.30 | .00 | 7.30 |
| AS | 461.70 | .00 | 7.30 |
| AS | 469.10 | .00 | 7.30 |
| AS | 476.50 | .00 | 7.30 |
| AS | 483.90 | .00 | 7.30 |
| AS | 491.30 | .00 | 7.30 |
| AS | 498.70 | .00 | 7.30 |
| AS | 506.10 | .00 | 7.30 |
| AS | 513.50 | .00 | 7.30 |
| AS | 520.90 | .00 | 7.30 |
| AS | 528.30 | .00 | 7.30 |
| AS | 535.70 | .00 | 7.30 |
| AS | 543.10 | .00 | 7.30 |

AS 550.50 .00 7.30

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

| | | | |
|---|---|---|---|
| BETWEEN | 446.90 | AND | 447.00 |
| BETWEEN | 447.00 | AND | 454.30 |
| BETWEEN | 454.30 | AND | 461.70 |
| BETWEEN | 461.70 | AND | 469.10 |
| BETWEEN | 469.10 | AND | 476.50 |
| BETWEEN | 476.50 | AND | 483.90 |
| BETWEEN | 483.90 | AND | 491.30 |
| BETWEEN | 491.30 | AND | 498.70 |
| BETWEEN | 498.70 | AND | 506.10 |
| BETWEEN | 506.10 | AND | 513.50 |
| BETWEEN | 513.50 | AND | 520.90 |
| BETWEEN | 520.90 | AND | 528.30 |
| BETWEEN | 528.30 | AND | 535.70 |
| BETWEEN | 535.70 | AND | 543.10 |
| BETWEEN | 543.10 | AND | 550.50 |

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 96.00 | 6.30 | 8.30 |
| 108.00 | 6.30 | 7.30 |

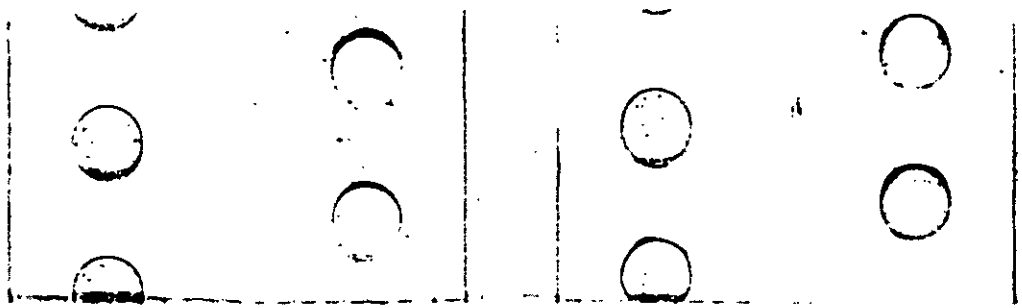
PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 102.15 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |

# ADDITIONAL INFORMATION



| | | | | |
|---|---|---|---|---|
| | | V12 EL=16 | 60 | |
| 30.01 | 15.50 | | | V12 EL=16 |
| | | V12 EL=15 | 60 | V12 EL=15 |
| 59.04 | 14.50 | | | |
| | | V12 EL=14 | 60 | |
| 67.91 | 13.50 | | | |
| | | V12 EL=13 | 60 | V12 EL=14 |
| 75.87 | 12.50 | | | |
| | | V11 EL=12 | 55 | |
| 76.00 | 12.48 | | | |
| | | V 9 EL=12 | 45 | |
| 95.68 | 11.50 | | | |
| | | V 7 EL=11 | 35 | V12 EL=12 |
| 96.00 | 11.48 | | | |
| | | V 5 EL=11 | 25 | |
| 102.15 | 9.90 | | | |
| | | A 4 EL=11 | 20 | |
| 103.10 | 10.50 | | | |
| | | A 4 EL=10 | 20 | A4 EL=11 |
| SR 1568 → 108.00 | 9.82 | | | |
| | | A 4 EL=10 | 20 | |
| 122.09 | 9.50 | | | A4 FL=9 |
| | | A 4 EL= 9 | 20 | |
| 147.84 | 8.50 | | | |
| | | A 4 EL= 8 | 20 | A4 EL=8 |
| 445.65 | 7.50 350' | | | A4 FL=8 |
| | | A 4 EL= 7 | 20 | |
| 446.90 | 7.30 | | | MATCH |
| 447.00 | 7.30 | | | A8 EL=7 |
| 454.30 | 7.30 | | | |

FINAL MAPPED ZONES

V12 EL=16

V12 EL=14

V12 EL=12

A4 EL=10

A8 EL=7

DO F6 NOT SATISFY LS ratback 120'

| | |
|---|---|
| 461.70 | 7.30 |
| 469.10 | 7.30 |
| 476.50 | 7.30 |
| 483.90 | 7.30 |
| 491.30 | 7.30 |
| 498.70 | 7.30 |
| 506.10 | 7.30 |
| 513.50 | 7.30 |
| 520.90 | 7.30 |
| 528.30 | 7.30 |
| 535.70 | 7.30 |
| 543.10 | 7.30 |
| 550.50 | 7.30 |

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
*TRANSECT NO. 6.000*

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 12.000 | -.300 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 20.600 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 60.000 | 1.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 76.000 | 2.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 86.000 | 5.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 100.000 | 5.900 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 115.000 | 5.100 | .000 | 9.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 131.000 | 3.500 | .000 | 8.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 145.000 | 4.700 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 156.000 | 3.100 | .000 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 170.000 | 3.300 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 199.000 | 3.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 222.000 | 4.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 247.000 | 3.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 275.000 | 2.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 361.800 | 2.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 368.500 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 369.500 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 376.200 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 383.800 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 391.500 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 399.100 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 406.800 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 414.400 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 422.100 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 429.700 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 437.400 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 445.000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 452.700 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 460.300 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 468.000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 475.600 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

SA 156

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| OF | END STATION 12.000 | END ELEVATION -.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 20.600 | 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 60.000 | END ELEVATION 1.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 76.000 | END ELEVATION 2.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 86.000 | 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 100.000 | END ELEVATION 5.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 115.000 | END ELEVATION 5.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.600 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 131.000 | END ELEVATION 3.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.800 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 145.000 | END ELEVATION 4.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.200 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 154.000 | END ELEVATION 3.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 170.000 | END ELEVATION 3.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 199.000 | 3.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 222.000 | 4.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 247.000 | 3.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 275.000 | 2.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 361.800 | 2.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 368.500 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 369.500 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 376.200 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 383.800 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 391.500 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 399.100 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 406.800 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 414.400 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 422.100 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 429.700 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 437.400 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 445.000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 452.700 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 460.300 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 468.000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 475.600 | 7.600 | .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 | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 12.00 | 8.03 | 15.92 |
| OF | 20.60 | 8.03 | 15.92 |
| IF | 60.00 | 6.94 | 15.16 |
| IF | 76.00 | 5.77 | 14.34 |
| IF | 86.00 | 4.13 | 13.19 |
| IF | 100.00 | 3.43 | 12.70 |
| IF | 115.00 | 3.43 | 12.35 |
| IF | 131.00 | 3.43 | 11.60 |
| IF | 145.00 | 2.73 | 10.41 |
| IF | 154.00 | 2.73 | 9.91 |
| IF | 170.00 | 2.73 | 9.31 |
| IF | 199.00 | 2.73 | 8.91 |
| IF | 222.00 | 1.95 | 8.36 |
| IF | 247.00 | 1.95 | 8.36 |
| IF | 275.00 | 1.95 | 8.37 |
| IF | 361.80 | 1.95 | 8.37 |
| IF | 368.50 | .00 | 7.00 |
| AS | 369.50 | -.47 | 7.60 |
| AS | 376.20 | -.47 | 7.60 |
| AS | 383.80 | -.47 | 7.60 |
| AS | 391.50 | -.47 | 7.60 |
| AS | 399.10 | -.47 | 7.60 |
| AS | 406.80 | -.47 | 7.60 |
| AS | 414.40 | -.47 | 7.60 |
| AS | 422.10 | -.47 | 7.60 |
| AS | 429.70 | -.47 | 7.60 |
| AS | 437.40 | -.47 | 7.60 |

| | | | |
|---|---|---|---|
| AS | 445.00 | -.47 | 7.60 |
| AS | 452.70 | -.47 | 7.60 |
| AS | 460.30 | -.47 | 7.60 |
| AS | 468.00 | -.47 | 7.60 |
| AS | 475.60 | -.47 | 7.60 |

*PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE*

| | | | |
|---|---|---|---|
| BETWEEN | 368.50 | AND | 369.50 |
| BETWEEN | 369.50 | AND | 376.20 |
| BETWEEN | 376.20 | AND | 383.80 |
| BETWEEN | 383.80 | AND | 391.50 |
| BETWEEN | 391.50 | AND | 399.10 |
| BETWEEN | 399.10 | AND | 406.80 |
| BETWEEN | 406.80 | AND | 414.40 |
| BETWEEN | 414.40 | AND | 422.10 |
| BETWEEN | 422.10 | AND | 429.70 |
| BETWEEN | 429.70 | AND | 437.40 |
| BETWEEN | 437.40 | AND | 445.00 |
| BETWEEN | 445.00 | AND | 452.70 |
| BETWEEN | 452.70 | AND | 460.30 |
| BETWEEN | 460.30 | AND | 468.00 |
| BETWEEN | 468.00 | AND | 475.60 |

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 115.00 | 6.30 | 9.60 |
| 131.00 | 6.30 | 8.80 |
| 145.00 | 6.30 | 8.20 |
| 154.00 | 6.30 | 7.80 |
| 170.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 139.62 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | V12 EL=16 | 60 |
| 42.44 | 15.50 | V12 EL=15 | 60 |
| 72.88 | 14.50 | V12 EL=14 | 60 |
| 83.33 | 13.50 | V12 EL=13 | 60 |
| 100.00 | 12.70 | V11 EL=13 | 55 |
| 108.67 | 12.50 | V10 EL=12 | 50 |
| 115.00 | 12.35 | V 8 EL=12 | 40 |
| 131.00 | 11.60 | V 7 EL=12 | 35 |
| 132.20 | 11.50 | V 7 EL=11 | 35 |
| 139.62 | 10.60 | A 5 EL=11 | 25 |
| 143.95 | 10.50 | A 5 EL=10 | 25 |
| 145.00 | 10.41 | A 5 EL=10 | 25 |
| 154.00 | 9.91 | | |

V12 EL=16

V12 EL=15

V12 EL=14

V12 EL=13

V12 EL=12

A9 EL=11

FINAL MAPPED ZONES

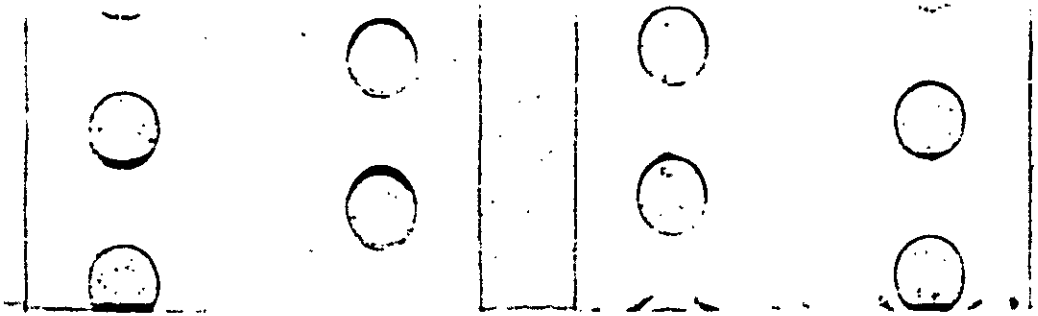
V12 EL=16

V12 FL 14

V12 FL 12

A9 EL=10

OK



| | | | | | | |
|---|---|---|---|---|---|---|
| | | | A S EL=10 | 25 | | |
| | 164.96 | 9.50 | | | A4 FL=11 | |
| | | | A S EL= 9 | 25 | | A4 FL=10 |
| SR 156B → | 170.00 | 9.31 | | | | |
| | | | A S EL= 9 | 25 | A4 EL=9 | |
| | 216.31 | 8.50 | | | | |
| | | | A S EL= 8 | 25 | A4 FL=8 | A4 FL=8 |
| | 366.05 | 7.50 | | | | |
| | | | A S EL= 7 | 25 | | |
| | 368.50 | 7.00 | | | | |
| | 369.50 | 7.60 | | | | |
| | 376.20 | 7.60 | | | | |
| | 383.80 | 7.60 | | | | |
| | 391.50 | 7.60 | | | | |
| | 399.10 | 7.60 | | | | |
| | 406.80 | 7.60 | | | | |
| | 414.40 | 7.60 | | | | |
| | 422.10 | 7.60 | | | | |
| | 429.70 | 7.60 | | | | |
| | 437.40 | 7.60 | | | | |
| | 445.00 | 7.60 | | | | |
| | 452.70 | 7.60 | | | | |
| | 460.30 | 7.60 | | | | |
| | 468.00 | 7.60 | | | | |

ZONE B

475.60 7.60

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD-INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 7.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 12.000 | -.400 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 22.100 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 77.000 | 2.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 95.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 103.000 | 5.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 108.000 | 4.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 142.000 | 5.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 154.000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 182.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 209.000 | 3.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 253.000 | 2.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 251.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 310.000 | 4.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 310.100 | 4.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 319.600 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 323.800 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 325.200 | 10.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 334.500 | 9.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 343.400 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 352.000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 360.300 | 8.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 368.300 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 376.100 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 383.500 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 390.800 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 397.700 | 7.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 404.500 | 6.800 | .000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 411.000 | 6.500 | .000 | 6.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 418.100 | 6.700 | .000 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 471.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 574.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

OLD ROAD (CURV)

STATE 210 (NEW)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| OF | END STATION 12.000 | END ELEVATION -.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 22.100 | 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 77.000 | 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 95.000 | END ELEVATION 4.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 103.000 | END ELEVATION 5.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 108.000 | END ELEVATION 4.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 142.000 | END ELEVATION 5.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 154.000 | 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 182.000 | END ELEVATION 4.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 209.000 | END ELEVATION 3.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 233.000 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | END STATION 251.000 | END ELEVATION 4.200 | 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 4.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 310.100 | END ELEVATION 4.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 319.600 | END ELEVATION 10.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 323.800 | END ELEVATION 10.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 325.200 | END ELEVATION 10.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 334.500 | END ELEVATION 9.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 343.400 | END ELEVATION 9.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 352.000 | END ELEVATION 9.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 360.300 | END ELEVATION 8.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 368.300 | END ELEVATION 8.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 376.100 | END ELEVATION 8.000 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 383.500 | END ELEVATION 7.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 390.800 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 397.700 | 7.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 404.500 | 6.800 | .000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 411.000 | 6.500 | .000 | 6.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 418.100 | 6.700 | .000 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 471.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 674.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

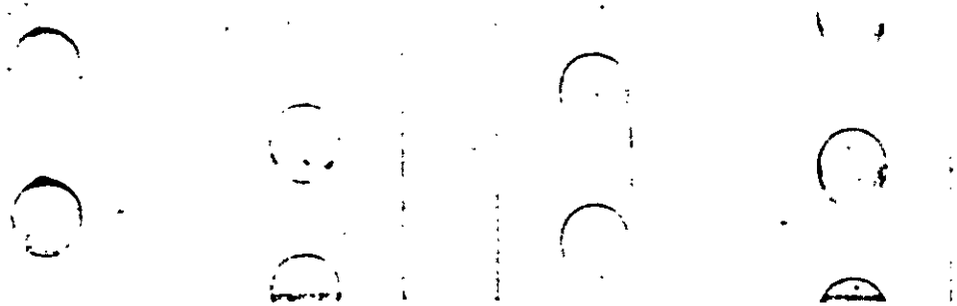
----------END OF TRANSECT----------

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

PART2 WAVE HEIGHTS AND ELEVATIONS

| LOCATION | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 12.00 | 8.03 | 15.92 |
| OF | 22.10 | 8.03 | 15.92 |
| IF | 77.00 | 6.47 | 14.83 |
| IF | 95.00 | 4.76 | 13.63 |
| IF | 103.00 | 3.82 | 12.98 |
| IF | 108.00 | 3.82 | 12.98 |
| IF | 142.00 | 3.82 | 12.98 |
| IF | 154.00 | 2.65 | 12.16 |
| IF | 182.00 | 2.65 | 12.16 |
| IF | 209.00 | 2.65 | 12.16 |
| IF | 233.00 | 2.66 | 12.16 |
| IF | 251.00 | 2.66 | 12.16 |
| IF | 310.00 | 2.66 | 12.17 |
| IF | 310.10 | 2.66 | 12.17 |
| IF | 319.60 | .00 | 10.30 |
| AS | 323.80 | .00 | 10.30 |
| AS | 325.20 | .00 | 10.20 |
| AS | 334.50 | .00 | 9.80 |
| AS | 343.40 | .00 | 9.40 |
| AS | 352.00 | .00 | 9.10 |
| AS | 360.30 | .00 | 8.70 |
| AS | 368.30 | .00 | 8.40 |
| AS | 376.10 | .00 | 8.00 |
| AS | 383.50 | .00 | 7.70 |
| AS | 390.80 | .00 | 7.40 |
| IF | 397.70 | .00 | 8.70 |
| IF | 404.50 | .00 | 7.00 |



| | | | |
|---|---|---|---|
| IF | 411.00 | .00 | 6.85 |
| IF | 418.10 | .00 | 6.75 |
| AS | 471.00 | -1.40 | 8.50 |
| AS | 674.00 | -1.40 | 8.50 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

| | | | |
|---|---|---|---|
| BETWEEN | 319.60 | AND | 323.80 |
| BETWEEN | 323.80 | AND | 325.20 |
| BETWEEN | 325.20 | AND | 334.50 |
| BETWEEN | 334.50 | AND | 343.40 |
| BETWEEN | 343.40 | AND | 352.00 |
| BETWEEN | 352.00 | AND | 360.30 |
| BETWEEN | 360.30 | AND | 368.30 |
| BETWEEN | 368.30 | AND | 376.10 |
| BETWEEN | 376.10 | AND | 383.50 |
| BETWEEN | 383.50 | AND | 390.80 |
| BETWEEN | 418.10 | AND | 471.00 |
| BETWEEN | 471.00 | AND | 674.00 |

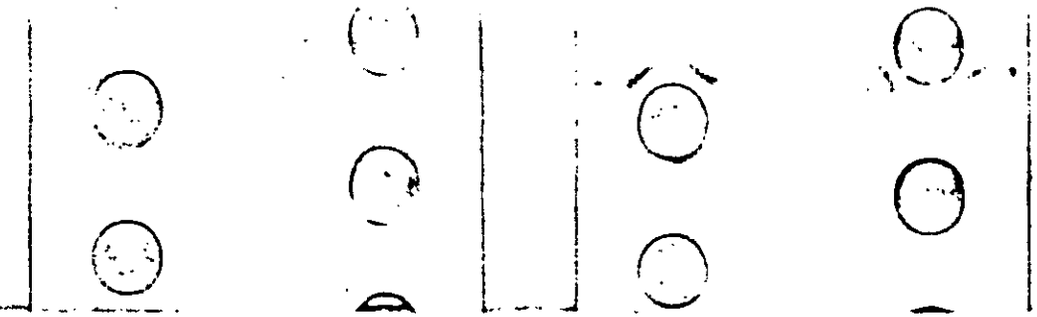
PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 397.70 | 6.30 | 7.10 |
| 404.50 | 6.30 | 6.90 |
| 411.00 | 6.30 | 6.80 |
| 418.10 | 6.30 | 6.70 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 150.43 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES



| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 43.41 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 81.97 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 96.59 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 148.97 | 12.50 | | |
| | | V12 EL=12 | 60 |
| 150.43 | 12.40 | | |
| QUAD ON QUAD → 251 | | A 7 EL=12 | 35 |
| 313.49 | 11.50 | | |
| | | A 7 EL=11 | 35 |
| 318.58 | 10.50 | | |
| | | A 7 EL=10 | 35 |
| 319.60 | 10.30 | | |
| 323.80 | 10.30 | | |
| 325.20 | 10.20 | | |
| 334.50 | 9.80 | | |
| 343.40 | 9.40 | | |
| 352.00 | 9.10 | | |
| 360.30 | 8.70 | | |
| 368.30 | 8.40 | | |
| 376.10 | 8.00 | | |
| 383.50 | 7.70 | | |

V12 EL=16

V12 EL=15

V12 EL=14

A 4 EL=12

ZONE B

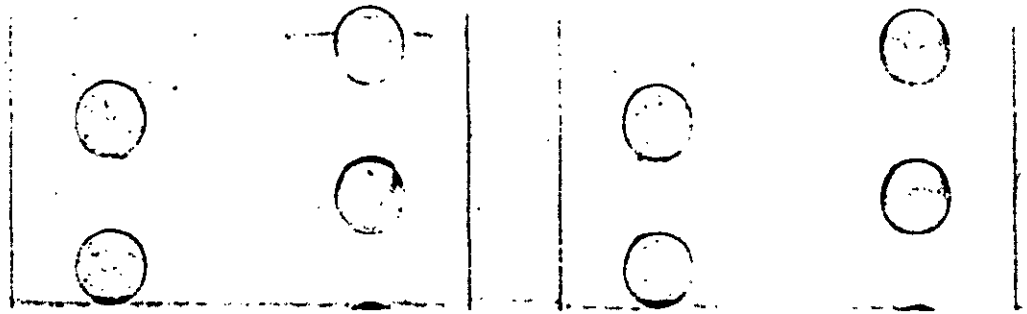
FINAL MAPPED ZONES

V12 EL.16

V12 EL=14

A4 EL=12

A4 EL=10



| | | | |
|---|---|---|---|
| | 390.80 | 7.40 | |
| | | | A 7 EL= 7 35 |
| | 391.33 | 7.50 | |
| | | | A 7 EL= 8 35 |
| | 396.64 | 8.50 | |
| | | | A 7 EL= 9 35 |
| | 397.70 | 8.70 | |
| | | | A 7 EL= 9 35 |
| | 398.50 | 8.50 | |
| | | | A 7 EL= 8 35 |
| | 402.50 | 7.50 | |
| | | | A 7 EL= 7 35 |
| | 404.50 | 7.00 | |
| | | | A 7 . EL= 7 35 |
| | 411.00 | 6.85 | |
| | | | A 7 EL= 7 35 |
| | 418.10 | 6.75 | |
| NC 210 → | 471.00 | 8.50 | |
| | 674.00 | 8.50 | |

A7 EL=9

A 9
EL= 9

MATCH
ZONE B

11 B

ZONE TERMINATED AT END OF TRANSECT

OK

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 8.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 10.000 | -.300 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 15.400 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 60.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 86.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 105.000 | 5.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 110.000 | 6.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 125.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 139.000 | 4.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 151.000 | 9.100 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 167.000 | 8.600 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 178.000 | 5.600 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 204.000 | 2.600 | .000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 205.000 | 2.500 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 307.000 | 2.400 | .000 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 327.000 | 1.900 | .000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 338.000 | 1.300 | .000 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 351.000 | 2.300 | .000 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 373.000 | 2.500 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 494.500 | 2.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 498.400 | 5.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 501.500 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 505.500 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 512.500 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 519.600 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 526.700 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 533.700 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 540.800 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 547.800 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 554.900 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 561.900 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 569.000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 576.000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 583.100 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 590.200 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 597.200 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 604.300 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

OLD ROAD (QUAD)

STATE 210 (NEW)

| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 10.000 | -.300 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 15.400 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 60.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 86.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 105.000 | 5.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 110.000 | 6.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 125.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 139.000 | 4.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 151.000 | 9.100 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 167.000 | 8.600 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 178.000 | 5.600 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | END STATION 204.000 | END ELEVATION 2.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 209.000 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 307.000 | END ELEVATION 2.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 327.000 | END ELEVATION 1.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.600 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 338.000 | END ELEVATION 1.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 351.000 | END ELEVATION 2.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 373.000 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 494.500 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 498.400 | 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 501.500 | 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 505.500 | 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 512.500 | 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 519.600 | END ELEVATION 6.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

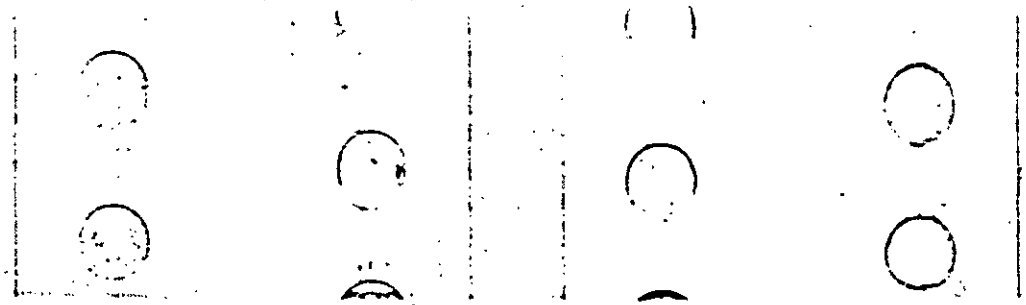
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 526.700 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 533.700 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 540.800 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 547.800 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 554.900 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 561.900 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 569.000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 576.000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 583.100 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 590.200 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 597.200 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 604.300 | 6.900 | .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 | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 10.00 | 8.03 | 15.92 |
| OF | 15.40 | 8.03 | 15.92 |
| IF | 60.00 | 6.32 | 14.72 |
| IF | 86.00 | 4.99 | 13.79 |
| IF | 105.00 | 4.06 | 13.14 |
| IF | 110.00 | 3.20 | 12.54 |
| IF | 125.00 | 3.20 | 12.54 |
| IF | 139.00 | 3.20 | 12.54 |
| IF | 151.00 | .94 | 10.96 |
| IF | 167.00 | .94 | 10.86 |
| IF | 178.00 | .94 | 10.66 |
| IF | 204.00 | .99 | 10.39 |
| IF | 209.00 | 1.00 | 10.15 |
| IF | 307.00 | 1.19 | 9.48 |
| IF | 327.00 | 1.20 | 8.59 |
| IF | 339.00 | 1.21 | 8.35 |
| IF | 351.00 | 1.21 | 8.20 |
| IF | 373.00 | 1.22 | 8.01 |
| IF | 494.50 | 1.25 | 7.88 |
| IF | 498.40 | 1.25 | 7.88 |
| IF | 501.50 | .08 | 7.05 |
| IF | 505.50 | .08 | 7.05 |
| IF | 512.50 | .08 | 7.05 |
| IF | 519.60 | .08 | 7.05 |
| IF | 526.70 | .08 | 7.05 |
| IF | 533.70 | .08 | 7.05 |
| IF | 540.80 | .08 | 7.05 |



| | | | |
|---|---|---|---|
| IF | 547.80 | .08 | 7.05 |
| IF | 554.90 | .08 | 7.05 |
| IF | 561.90 | .08 | 7.05 |
| IF | 569.00 | .08 | 7.05 |
| IF | 576.00 | .08 | 7.05 |
| IF | 583.10 | .08 | 7.05 |
| IF | 590.20 | .08 | 7.05 |
| IF | 597.20 | .08 | 7.05 |
| IF | 604.30 | .08 | 7.05 |

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

PART4 LOCATION OF SURGE CHANGES

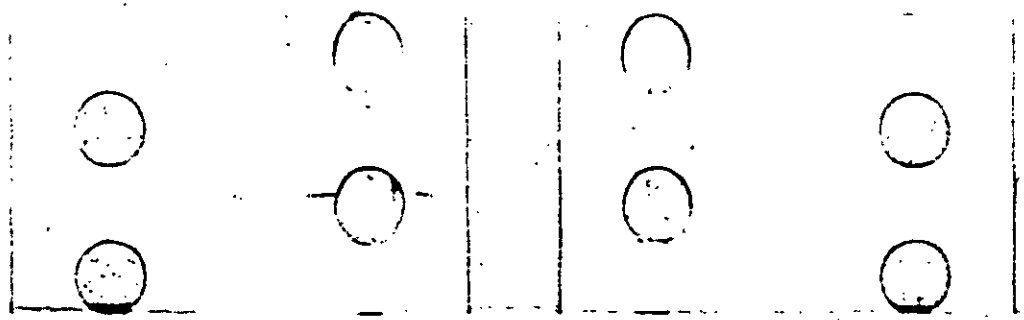
| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 167.00 | 6.30 | 10.10 |
| 178.00 | 6.30 | 9.90 |
| 204.00 | 6.30 | 9.50 |
| 208.00 | 6.30 | 9.40 |
| 307.00 | 6.30 | 7.90 |
| 327.00 | 6.30 | 7.60 |
| 338.00 | 6.30 | 7.40 |
| 351.00 | 6.30 | 7.30 |
| 373.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 140.05 | WINDWARD |

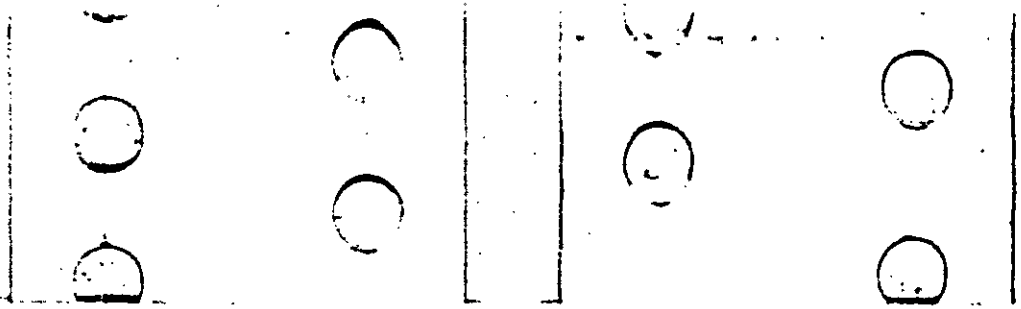
PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|



| | | | | | |
|---|---|---|---|---|---|
| .00 | 15.92 | | | | |
| | | V12 EL=16 | 60 | V12 EL=16 | |
| 31.14 | 15.50 | | | | V12 EL=16 |
| | | V12 EL=15 | 60 | V12 EL=15 | |
| 66.24 | 14.50 | | | | |
| | | V12 EL=14 | 60 | V12 EL=14 | |
| 94.54 | 13.50 | | | | |
| | | V12 EL=13 | 60 | | V12 EL=14 |
| 139.29 | 12.50 | | | V12 EL=13 | |
| | | V12 EL=12 | 60 | | |
| 140.05 | 12.40 | | | | |
| | | A 5 EL=12 | 25 | | |
| 146.87 | 11.50 | | | | |
| | | A 5 EL=11 | 25 | A4 EL=12 | |
| 151.00 | 10.96 | | | | |
| | | A 5 EL=11 | 25 | | A4 EL 12 |
| 167.00 | 10.86 | | | | |
| | | A 5 EL=11 | 25 | A4 EL=11 | |
| 178.00 | 10.66 | | | | |
| | | A 5 EL=11 | 25 | | |
| 193.41 | 10.50 | | | | |
| | | A 5 EL=10 | 25 | | |
| 204.00 | 10.39 | | | A4 EL=10 | |
| | | A 5 EL=10 | 25 | | A4 EL=10 |
| 208.00 → | 10.15 | | | | |
| | | A 5 EL=10 | 25 | | |
| 304.73 | 9.50 | | | | |
| | | A 5 EL= 9 | 25 | | |
| 307.00 | 9.48 | | | A4 EL= 9 | A4 EL 9 |
| | | A 5 EL= 9 | 25 | | |
| 327.00 | 8.59 | | | | |

FINAL FINISH ZONES



| | | | | | |
|---|---|---|---|---|---|
| | | A 5 EL= 9 | 25 | A9 EL=9 | A9 FL=9 |
| 331.11 | 8.50 | | | | |
| | | A 5 EL= 8 | 25 | | |
| 338.00 | 8.35 | | | A9 FL=8 | |
| | | A 5 EL= 8 | 25 | | A9 FL=8 |
| 351.00 | 8.20 | | | | |
| | | A 5 EL= 8 | 25 | | |
| NC 210 → 373.00 | 8.01 | | | | |
| | | A 5 EL= 8 | 25 | MATCH ZONE B | |
| 499.82 | 7.50 | | | | A9 FL7 |
| | | A 5 EL= 7 | 25 | | |
| 604.30 | 7.05 | | | | |

ZONE TERMINATED AT END OF TRANSECT

OH

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 9.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 1.000 | -.700 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 19.900 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 81.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 104.000 | 4.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 108.000 | 6.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 126.000 | 8.700 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 136.000 | 5.600 | .000 | 10.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 147.000 | 4.000 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 155.000 | 4.000 | .000 | 10.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 223.000 | 3.100 | .000 | 9.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 395.000 | 2.000 | .000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 453.000 | 2.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 486.700 | 2.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 489.600 | 3.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 492.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 495.800 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 502.000 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 508.300 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 514.500 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 520.700 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 526.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 533.200 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 539.400 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 545.600 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 551.800 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 558.000 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 564.300 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 570.500 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 576.700 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 582.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 589.100 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 595.400 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 601.600 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

S.D. 1983 (EQUIP)

STATE 710 (ONE)

| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 1.000 | -.700 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 19.900 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 81.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 104.000 | 4.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 108.000 | 6.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 126.000 | 8.700 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 136.000 | 5.600 | .000 | 10.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 147.000 | 4.000 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 155.000 | 4.000 | .000 | 10.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 223.000 | 3.100 | .000 | 9.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 395.000 | 2.000 | .000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 |

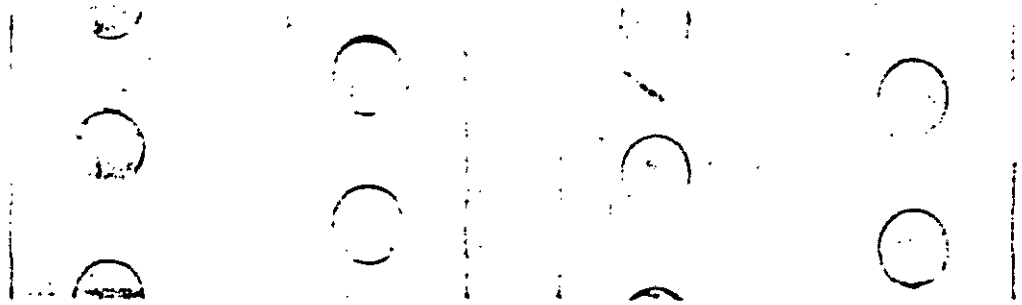
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 453.000 | 2.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 486.700 | 2.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 489.600 | 3.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 492.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 495.800 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 502.000 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 508.300 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 514.500 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 520.700 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 526.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 533.200 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 539.400 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 545.600 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 551.800 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 558.000 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 564.300 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 570.500 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 576.700 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 582.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 589.100 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 595.400 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 601.600 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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

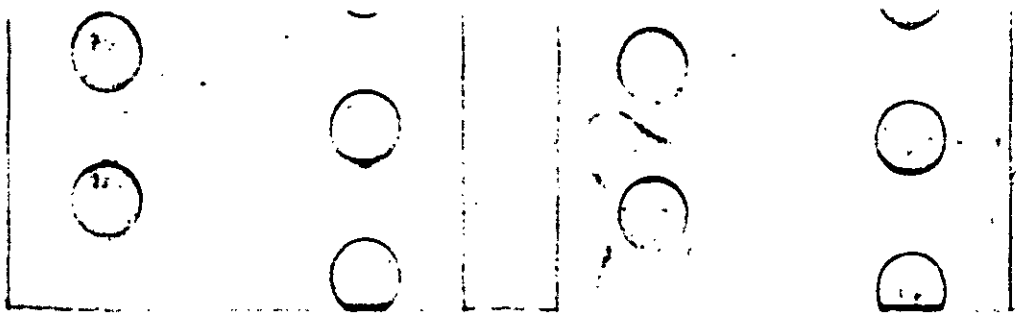
NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.



PART2 WAVE HEIGHTS AND ELEVATIONS

| LOCATION | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 1.00 | 8.03 | 15.92 |
| OF | 19.90 | 8.03 | 15.92 |
| IF | 81.00 | 6.32 | 14.72 |
| IF | 104.00 | 4.68 | 13.58 |
| IF | 108.00 | 3.28 | 12.59 |
| IF | 126.00 | 1.25 | 11.17 |
| IF | 136.00 | 1.25 | 11.12 |
| IF | 147.00 | 1.25 | 11.03 |
| IF | 155.00 | 1.26 | 10.93 |
| IF | 223.00 | 1.30 | 10.56 |
| IF | 395.00 | 1.37 | 9.41 |
| IF | 453.00 | 1.39 | 8.27 |
| IF | 486.70 | 1.40 | 7.98 |
| IF | 489.60 | 1.40 | 7.98 |
| IF | 492.90 | .86 | 7.60 |
| IF | 495.80 | .86 | 7.60 |
| IF | 502.00 | .86 | 7.60 |
| IF | 508.30 | .86 | 7.60 |
| IF | 514.50 | .86 | 7.60 |
| IF | 520.70 | .86 | 7.60 |
| IF | 526.90 | .86 | 7.60 |
| IF | 533.20 | .86 | 7.60 |
| IF | 539.40 | .86 | 7.60 |
| IF | 545.60 | .86 | 7.60 |
| IF | 551.80 | .86 | 7.60 |
| IF | 558.00 | .86 | 7.60 |
| IF | 564.30 | .86 | 7.60 |



| | | | |
|---|---|---|---|
| IF | 570.50 | .86 | 7.60 |
| IF | 576.70 | .86 | 7.60 |
| IF | 582.90 | .86 | 7.60 |
| IF | 589.10 | .86 | 7.60 |
| IF | 595.40 | .86 | 7.60 |
| IF | 601.60 | .86 | 7.60 |

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = .86 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 |
|---|---|---|
| 136.00 | 6.30 | 10.20 |
| 147.00 | 6.30 | 10.10 |
| 155.00 | 6.30 | 10.00 |
| 223.00 | 6.30 | 9.30 |
| 395.00 | 6.30 | 7.60 |
| 453.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 110.45 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

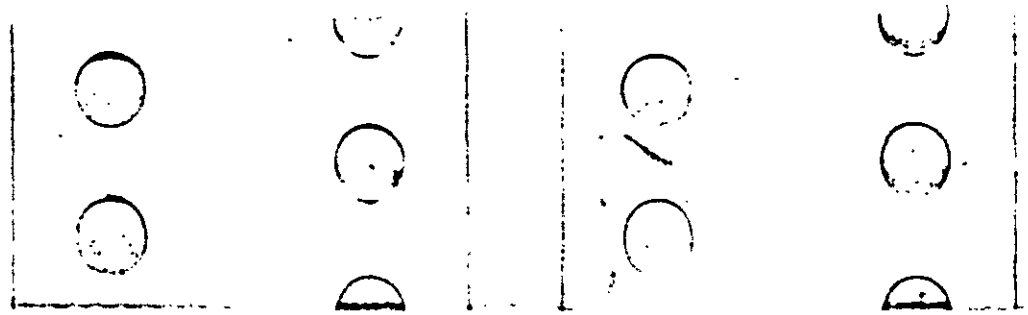
| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 41.46 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 85.47 | 14.50 | | |

V12 EL=16

V12 EL=15

FINAL MAPPED ZONES

V12 EL=16



| | | | |
|---|---|---|---|
| | 104.31 | 13.50 | V12 EL=14 60 |
| | 109.18 | 12.50 | V12 EL=13 60 |
| | 110.45 | 12.40 | V12 EL=12 60 |
| | 121.86 | 11.50 | A 6 EL=12 30 |
| | 126.00 | 11.17 | A 6 EL=11 30 |
| | 136.00 | 11.12 | A 6 EL=11 30 |
| | 147.00 | 11.03 | A 6 EL=11 30 |
| ROAD ON QUAD → | 155.00 | 10.93 | A 6 EL=11 30 |
| | 223.00 | 10.56 | A 6 EL=11 30 |
| | 231.56 | 10.50 | A 6 EL=10 30 |
| | 381.37 | 9.50 | A 6 EL= 9 30 |
| | 395.00 | 9.41 | A 6 EL= 9 30 |
| | 441.43 | 8.50 | A 6 EL= 8 30 |
| NC 210 → | 453.00 | 8.27 | A 6 EL= 8 30 |
| | 601.60 | 7.60 | |

V12 EL=14

A4 EL=12

A4 EL=11

A4 EL=10

A4 FL=9

MATCH ZONE B

V12 EL-14

A4 EL=12

A4 FL 10

A4 FL 9

A4 FL 8

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 10.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 9.000 | -.600 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 24.300 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 73.000 | 2.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 92.000 | 4.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 102.000 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 115.000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 141.000 | 9.900 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 156.000 | 7.600 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 179.000 | 4.700 | .000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 199.000 | 3.500 | .000 | 9.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 216.000 | 3.300 | .000 | 8.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 237.200 | 2.800 | .000 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 263.000 | 6.500 | .000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 264.600 | 7.500 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 270.400 | 7.400 | .000 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IE | 462.000 | 5.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 504.000 | 5.600 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 674.000 | 5.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

Sp. 15E3 (SQUARE)

SINCE 710 (MIN.)

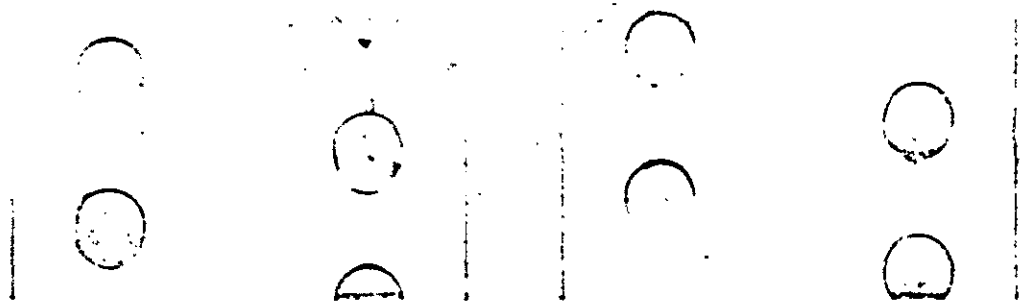
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | END STATION .000 | END ELEVATION -.800 | FETCH LENGTH 24.000 | SURGE ELEV 10-YEAR 6.300 | SURGE ELEV 100-YEAR 10.300 | INITIAL WAVE HEIGHT .000 | INITIAL W. PERIOD .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 9.000 | END ELEVATION -.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 24.300 | 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 73.000 | 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 92.000 | END ELEVATION 4.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 102.000 | 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 115.000 | END ELEVATION 9.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 141.000 | END ELEVATION 9.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 154.000 | END ELEVATION 7.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 179.000 | END ELEVATION 4.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 199.000 | END ELEVATION 3.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 216.000 | END ELEVATION 3.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.700 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 257.200 | 2.800 | .000 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 263.000 | 6.500 | .000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 264.600 | 7.500 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 270.400 | 7.400 | .000 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 462.000 | 5.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 504.000 | 5.600 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 674.000 | 5.600 | .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

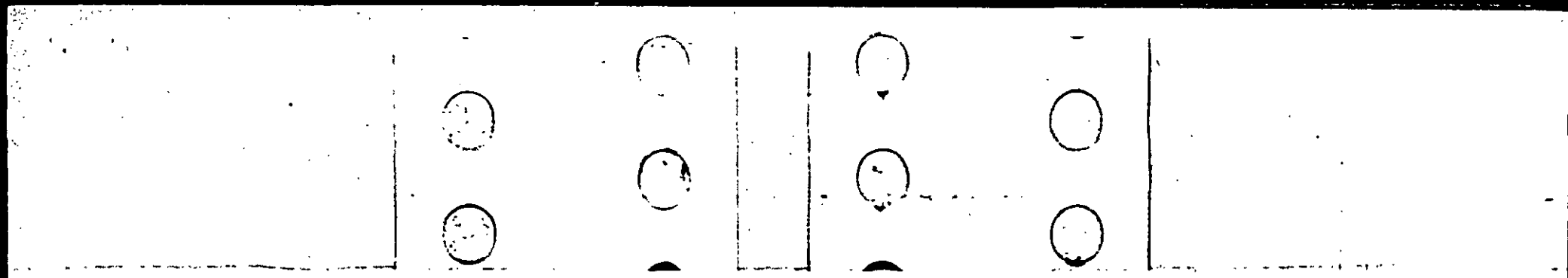
| LOCATION | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 9.00 | 8.03 | 15.92 |
| OF | 24.30 | 8.03 | 15.92 |
| IF | 73.00 | 6.40 | 14.78 |
| IF | 92.00 | 4.60 | 13.52 |
| IF | 102.00 | 2.96 | 12.37 |
| IF | 115.00 | .62 | 10.74 |
| IF | 141.00 | .31 | 10.52 |
| IF | 154.00 | .31 | 10.42 |
| IF | 179.00 | .35 | 10.04 |
| IF | 199.00 | .38 | 9.52 |
| IF | 216.00 | .42 | 9.14 |
| IF | 257.20 | .49 | 8.60 |
| IF | 263.00 | .50 | 8.10 |
| IF | 264.60 | .00 | 7.60 |
| AS | 270.40 | .00 | 7.40 |
| IF | 462.00 | .07 | 7.30 |
| IF | 504.00 | .09 | 7.12 |
| IF | 674.00 | .18 | 7.13 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 264.60 AND 270.40

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 154.00 | 6.30 | 10.10 |
| 179.00 | 6.30 | 9.50 |
| 199.00 | 6.30 | 9.00 |



| | | |
|---|---|---|
| 216.00 | 6.30 | 5.70 |
| 257.20 | 6.30 | 7.80 |
| 263.00 | 6.30 | 7.70 |
| 264.60 | 6.30 | 7.50 |
| 270.40 | 6.30 | 7.40 |
| 462.00 | 6.30 | 7.10 |
| 504.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 101.78 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | EHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 42.30 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 77.19 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 92.19 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 100.91 | 12.50 | | |
| | | V12 EL=12 | 60 |
| 101.78 | 12.40 | | |
| | | A 3 EL=12 | 15 |
| 108.96 | 11.50 | | |
| | | A 3 EL=11 | 15 |
| 141.00 | 10.52 | | |
| | | A 3 EL=11 | 15 |
| 143.42 | 10.50 | | |

V12 EL=16

V12 EL=15

V12 EL=14

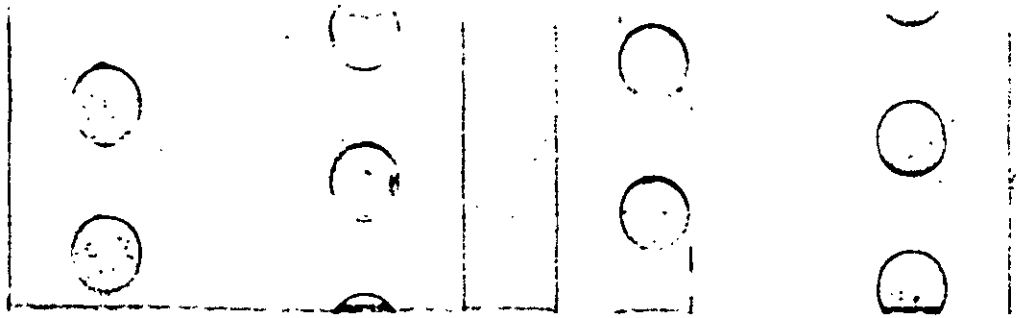
A 4 EL=12

FINAL MAPPED ZONES

V12 EL=16

V12 EL14

A4 EL=12



| | | | |
|---|---|---|---|
| | | A 3 EL=10 | 15 |
| 154.00 | 10.42 | | |
| | | A 3 EL=10 | 15 |
| 179.00 | 10.04 | | |
| | | A 3 EL=10 | 15 |
| 199.00 | 9.52 | | |
| | | A 3 EL=10 | 15 |
| 199.83 | 9.50 | | |
| | | A 3 EL= 9 | 15 |
| 216.00 | 9.14 | | |
| | | A 3 EL= 9 | 15 |
| 257.20 | 8.60 | | |
| | | A 3 EL= 9 | 15 |
| 258.32 | 8.50 | | |
| | | A 3 EL= 8 | 15 |
| 263.00 | 8.10 | | |
| | | A 3 EL= 8 | 15 |
| 264.60 | 7.60 | | |
| 270.40 | 7.40 | | |
| | | A 3 EL= 7 | 15 |
| 462.00 | 7.30 | | |
| | | A 3 EL= 7 | 15 |
| NC 210 → 504.00 | 7.12 | | |
| | | A 3 EL= 7 | 15 |
| 674.00 | 7.13 | | |

ZONE TERMINATED AT END OF TRANSECT

DOES NOT SATISFY LS Setback 120'

A4 EL=11

A4 EL=10

A4 EL=10

A4 EL=9

~~A4 EL=8~~

MATCH ZONE B

A4 EL=8

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 11.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 12.000 | -.700 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 34.100 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 112.000 | 2.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 141.000 | 4.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 167.000 | 4.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 165.000 | 6.600 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 177.000 | 6.100 | .000 | 10.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 195.000 | 3.400 | .000 | 10.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 212.000 | 3.200 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 264.000 | 3.400 | .000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 306.000 | 3.400 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 351.000 | 3.400 | .000 | 8.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 383.000 | 3.200 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 407.100 | 3.100 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 410.900 | 5.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 415.200 | 8.200 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 418.900 | 8.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 426.900 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 434.800 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 442.600 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 450.300 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 458.000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 465.700 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 571.000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 574.000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

SR 1583 Ourd

NF 710

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| OF | END STATION 12.000 | END ELEVATION -.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 34.100 | 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 112.000 | END ELEVATION 2.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 141.000 | END ELEVATION 4.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 147.000 | 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 165.000 | END ELEVATION 6.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 177.000 | END ELEVATION 6.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.200 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 195.000 | END ELEVATION 3.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 212.000 | END ELEVATION 3.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 264.000 | END ELEVATION 3.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 306.000 | END ELEVATION 3.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 359.000 | 3.400 | .000 | 8.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 383.000 | 3.200 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 407.100 | 3.100 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 410.900 | 5.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 415.200 | 8.200 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 418.900 | 8.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 426.900 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 434.800 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 442.600 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 450.300 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 458.000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 465.700 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 571.000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 674.000 | 7.200 | .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 | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 12.00 | 8.03 | 15.92 |
| OF | 34.10 | 8.03 | 15.92 |
| IF | 112.00 | 6.16 | 14.61 |
| IF | 141.00 | 4.45 | 13.41 |
| IF | 147.00 | 4.21 | 13.25 |
| IF | 165.00 | 2.89 | 12.32 |
| IF | 177.00 | 2.89 | 12.27 |
| IF | 195.00 | 2.89 | 12.12 |
| IF | 212.00 | 2.89 | 11.97 |
| IF | 264.00 | 2.89 | 11.72 |
| IF | 306.00 | 2.89 | 11.32 |
| IF | 351.00 | 2.89 | 10.92 |
| IF | 383.00 | 2.89 | 10.62 |
| IF | 407.10 | 2.89 | 10.42 |
| IF | 410.90 | 2.18 | 9.83 |
| IF | 415.20 | .00 | 8.25 |
| AS | 418.90 | .00 | 8.10 |
| AS | 426.90 | .00 | 8.00 |
| AS | 434.80 | .00 | 7.90 |
| AS | 442.60 | .00 | 7.90 |
| AS | 450.30 | .00 | 7.80 |
| AS | 458.00 | .00 | 7.70 |
| AS | 465.70 | .00 | 7.70 |
| AS | 571.00 | .00 | 7.20 |
| AS | 674.00 | .00 | 7.20 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

| | | | |
|---|---|---|---|
| BETWEEN | 415.20 | AND | 418.90 |
| BETWEEN | 418.90 | AND | 426.90 |
| BETWEEN | 426.90 | AND | 434.80 |
| BETWEEN | 434.80 | AND | 442.60 |
| BETWEEN | 442.60 | AND | 450.30 |
| BETWEEN | 450.30 | AND | 458.00 |
| BETWEEN | 458.00 | AND | 465.70 |
| BETWEEN | 465.70 | AND | 571.00 |
| BETWEEN | 571.00 | AND | 674.00 |

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 177.00 | 6.30 | 10.20 |
| 195.00 | 6.30 | 10.00 |
| 212.00 | 6.30 | 9.90 |
| 264.00 | 6.30 | 9.50 |
| 306.00 | 6.30 | 9.10 |
| 351.00 | 6.30 | 8.70 |
| 383.00 | 6.30 | 8.50 |
| 407.10 | 6.30 | 8.30 |
| 415.20 | 6.30 | 8.20 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 163.45 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 59.29 | 15.50 | | |

V12 EL=16

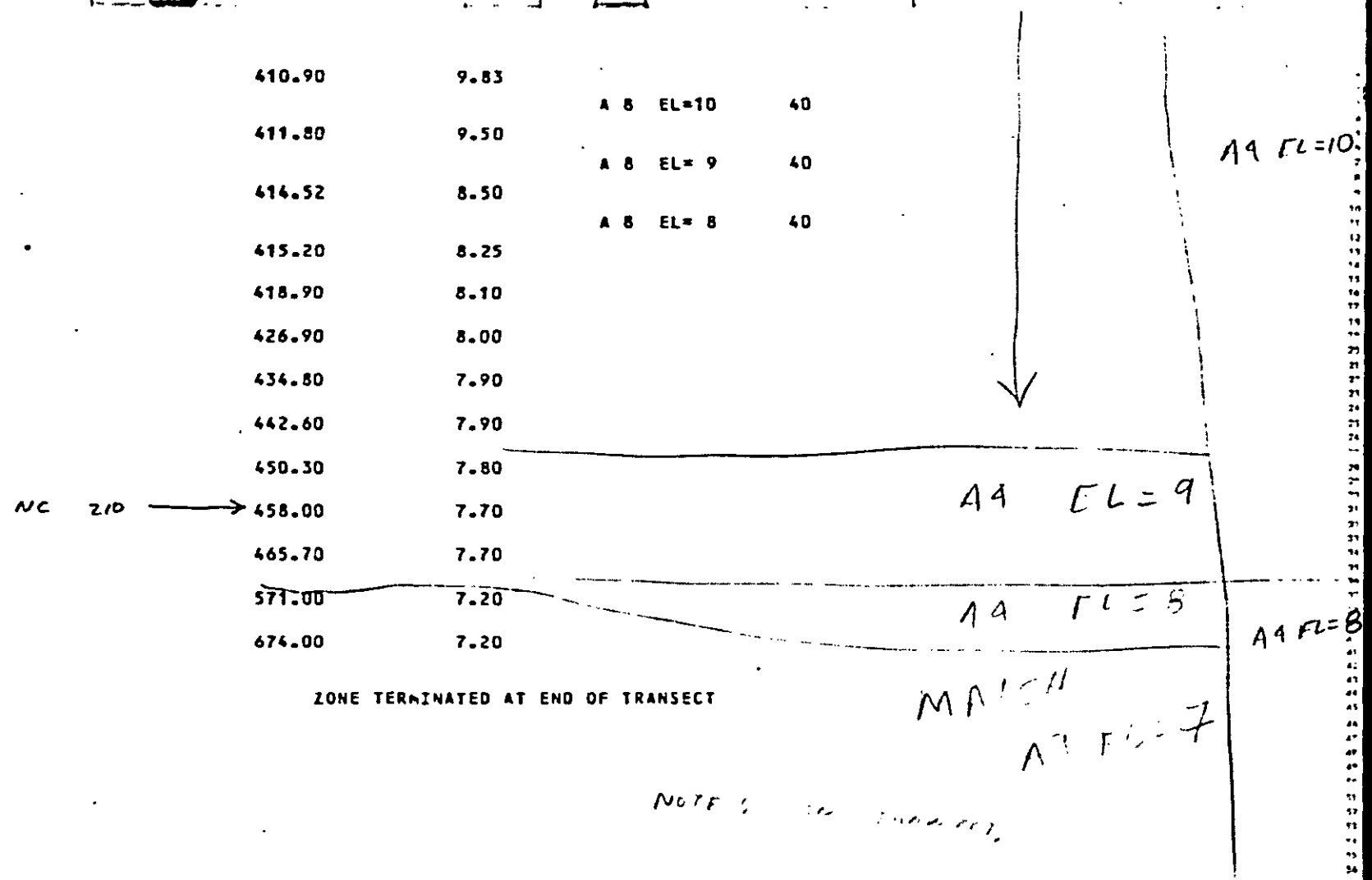
| | | | | | |
|---|---|---|---|---|---|
| | | | V12 EL=15 | 60 | V12 EL=15 |
| | 114.74 | 14.50 | | | |
| | | | V12 EL=14 | 60 | |
| | 138.88 | 13.50 | | | |
| | | | V12 EL=13 | 60 | V12 EL=14 |
| | 161.51 | 12.50 | | | |
| | | | V12 EL=12 | 60 | |
| | 163.45 | 12.40 | | | |
| | | | A 8 EL=12 | 40 | |
| | 165.00 | 12.32 | | | |
| | | | A 8 EL=12 | 40 | |
| | 177.00 | 12.27 | | | |
| | | | A 8 EL=12 | 40 | |
| | 195.00 | 12.12 | | | |
| | | | A 8 EL=12 | 40 | A4 EL=12 |
| ROAD ON QUAD → | 212.00 | 11.97 | | | |
| | | | A 8 EL=12 | 40 | |
| | 264.00 | 11.72 | | | |
| | | | A 8 EL=12 | 40 | |
| | 287.39 | 11.50 | | | |
| | | | A 8 EL=11 | 40 | |
| | 306.00 | 11.32 | | | |
| | | | A 8 EL=11 | 40 | A4 EL=11 |
| | 351.00 | 10.92 | | | |
| | | | A 8 EL=11 | 40 | |
| | 383.00 | 10.62 | | | |
| | | | A 8 EL=11 | 40 | |
| | 397.82 | 10.50 | | | |
| | | | A 8 EL=10 | 40 | |
| | 407.10 | 10.42 | | | A4 EL=10 |
| | | | A 8 EL=10 | 40 | |

FINAL MODIFICATIONS
V12 EL=16
V12 EL=14
A4 EL=12
A4 EL=11

| | | | |
|---|---|---|---|
| 410.90 | 9.83 | | |
| | | A 8 EL=10 | 40 |
| 411.80 | 9.50 | | |
| | | A 8 EL= 9 | 40 |
| 414.52 | 8.50 | | |
| | | A 8 EL= 8 | 40 |
| 415.20 | 8.25 | | |
| 418.90 | 8.10 | | |
| 426.90 | 8.00 | | |
| 434.80 | 7.90 | | |
| 442.60 | 7.90 | | |
| 450.30 | 7.80 | | |
| 458.00 | 7.70 | | |
| 465.70 | 7.70 | | |
| 571.00 | 7.20 | | |
| 674.00 | 7.20 | | |

NC 210 →

ZONE TERMINATED AT END OF TRANSECT



WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 12.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.300 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 5.000 | -.700 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 29.300 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 117.000 | 2.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 149.000 | 4.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 156.000 | 5.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 165.000 | 8.700 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 191.000 | 5.800 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 214.000 | 4.300 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 243.000 | 3.800 | .000 | 9.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 281.000 | 2.500 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 311.000 | 2.200 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 340.200 | 2.300 | .000 | 8.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 341.000 | 2.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 346.800 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 347.700 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 527.000 | 5.700 | .000 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 581.000 | 6.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 621.000 | 6.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 574.000 | 6.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

STATE 210

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| OF | END STATION 5.000 | END ELEVATION -.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 29.300 | 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 117.000 | END ELEVATION 2.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 149.000 | END ELEVATION 4.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 156.000 | END ELEVATION 5.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 165.000 | END ELEVATION 8.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 191.000 | END ELEVATION 5.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 214.000 | END ELEVATION 4.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 243.000 | END ELEVATION 3.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.700 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 281.000 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 311.000 | END ELEVATION 2.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | END STATION 340.200 | END ELEVATION 2.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 341.000 | END ELEVATION 2.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 346.800 | 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 347.700 | 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 527.000 | END ELEVATION 5.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 581.000 | END ELEVATION 6.000 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 621.000 | END ELEVATION 6.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 674.000 | END ELEVATION 6.400 | 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

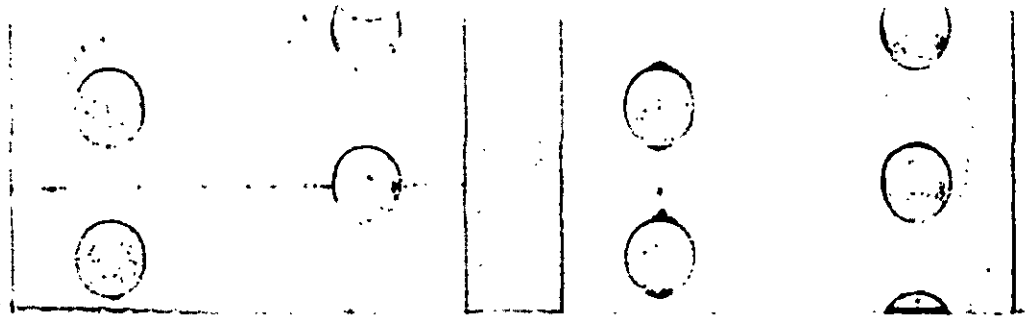
| LOCATION | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 5.00 | 8.03 | 15.92 |
| OF | 29.30 | 8.03 | 15.92 |
| IF | 117.00 | 5.93 | 14.45 |
| IF | 149.00 | 4.60 | 13.52 |
| IF | 156.00 | 3.59 | 12.81 |
| IF | 165.00 | 1.25 | 11.17 |
| IF | 191.00 | 1.25 | 11.07 |
| IF | 214.00 | 1.26 | 10.88 |
| IF | 243.00 | 1.27 | 10.69 |
| IF | 281.00 | 1.30 | 10.46 |
| IF | 311.00 | 1.33 | 10.18 |
| IF | 340.20 | 1.35 | 9.95 |
| IF | 341.00 | 1.35 | 9.85 |
| IF | 346.80 | 1.35 | 9.85 |
| IF | 347.70 | 1.35 | 9.85 |
| IF | 527.00 | 1.33 | 9.08 |
| IF | 581.00 | .78 | 7.75 |
| IF | 621.00 | .70 | 7.49 |
| IF | 674.00 | .47 | 7.33 |

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 |
|---|---|---|
| 191.00 | 6.30 | 10.10 |
| 214.00 | 6.30 | 9.90 |



| | | |
|---|---|---|
| 243.00 | 6.30 | 9.70 |
| 281.00 | 6.30 | 9.40 |
| 311.00 | 6.30 | 9.10 |
| 360.20 | 6.30 | 8.90 |
| 527.00 | 6.30 | 7.40 |
| 581.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 158.26 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 54.51 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 114.00 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 149.21 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 157.71 | 12.50 | | |
| | | V12 EL=12 | 60 |
| 158.26 | 12.40 | | |
| | | A 6 EL=12 | 30 |
| 163.21 | 11.50 | | |
| | | A 6 EL=11 | 30 |
| 165.00 | 11.17 | | |
| | | A 6 EL=11 | 30 |
| 191.00 | 11.07 | | |
| | | A 6 EL=11 | 30 |

V12 EL=16

V12 EL=15

V12 EL=14

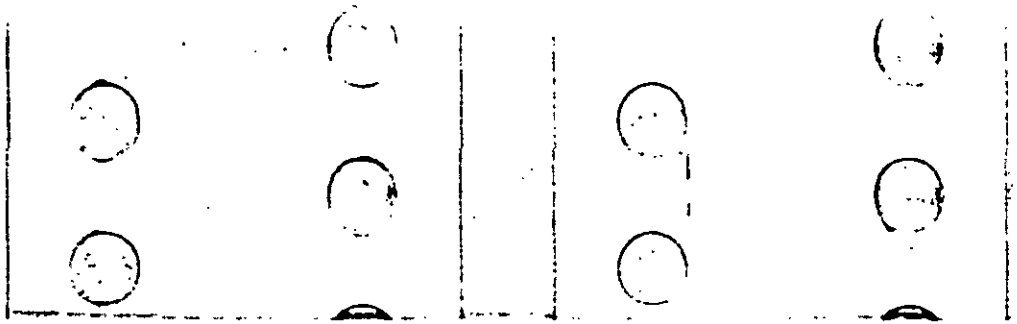
A4 EL=12

FINAL MAPPED ZONES

V12 EL=16

V12 EL=14

A4 FL=12



| | | | | | |
|---|---|---|---|---|---|
| | 214.00 | 10.88 | | | |
| | | | A 6 EL=11 | 30 | A4 EL=11 |
| | 243.00 | 10.69 | | | |
| | | | A 6 EL=11 | 30 | |
| | 274.05 | 10.50 | | | |
| | | | A 6 EL=10 | 30 | |
| | 281.00 | 10.46 | | | |
| | | | A 6 EL=10 | 30 | |
| | 311.00 | 10.18 | | | |
| | | | A 6 EL=10 | 30 | A4 EL=10 |
| | 340.20 | 9.95 | | | |
| | | | A 6 EL=10 | 30 | |
| | 347.70 | 9.85 | | | |
| | | | A 6 EL=10 | 30 | |
| | 428.78 | 9.50 | | | |
| | | | A 6 EL= 9 | 30 | |
| | 527.00 | 9.08 | | | A4 EL=9 |
| | | | A 6 EL= 9 | 30 | |
| | 550.44 | 8.50 | | | |
| | | | A 6 EL= 8 | 30 | |
| NC 210 → | 581.00 | 7.75 | | | A4 EL=8 |
| | | | A 6 EL= 8 | 30 | |
| | 619.65 | 7.50 | | | |
| | | | A 6 EL= 7 | 30 | MATCH ZONE B |
| | 674.00 | 7.33 | | | |

ZONE TERMINATED AT END OF TRANSECT

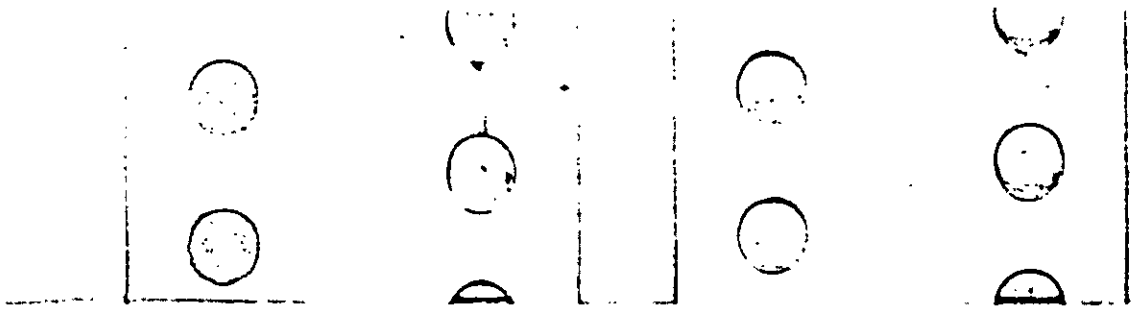
A4 EL=11

A4 EL=10

A4 EL=9

A4 EL=8

OK



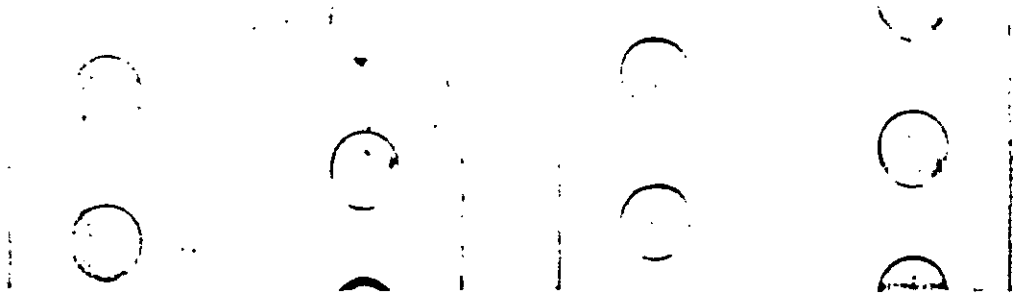
WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 13.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 11.000 | -.600 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 30.400 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 121.000 | 2.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 140.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 171.000 | 5.600 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 195.000 | 4.100 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 227.000 | 3.000 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 270.000 | 2.600 | .000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 288.000 | 3.000 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 320.000 | 2.500 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 360.000 | 2.400 | .000 | 8.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 394.900 | 2.400 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 398.200 | 4.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 401.800 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 405.000 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 411.900 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 418.700 | 6.600 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 425.500 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 432.300 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 439.100 | 6.600 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 445.800 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 452.600 | 6.500 | .000 | 8.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 459.300 | 6.500 | .000 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 466.000 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 472.800 | 6.600 | .000 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 509.000 | 6.900 | .000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 592.000 | 6.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 570.000 | 4.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 574.000 | 4.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| EF | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

BIRT STARTS (FOUR)

STATE 210



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| OF | END STATION 11.000 | END ELEVATION -.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 30.400 | 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 121.000 | END ELEVATION 2.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 140.000 | END ELEVATION 3.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 171.000 | END ELEVATION 5.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 195.000 | END ELEVATION 4.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 227.000 | END ELEVATION 3.000 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 270.000 | END ELEVATION 2.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 288.000 | END ELEVATION 3.000 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 320.000 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 360.000 | END ELEVATION 2.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.800 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | END STATION 394.900 | END ELEVATION 2.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 398.200 | END ELEVATION 4.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 401.800 | 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 405.000 | 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 411.900 | 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 418.700 | END ELEVATION 6.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 425.500 | 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 432.300 | 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 439.100 | END ELEVATION 6.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.200 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 445.800 | 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 452.600 | END ELEVATION 6.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 459.300 | END ELEVATION 6.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 466.000 | END ELEVATION 6.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 472.800 | 6.600 | .000 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 509.000 | 6.900 | .000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 592.000 | 6.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 670.000 | 4.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 574.000 | 4.600 | .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 | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 11.00 | 8.03 | 15.92 |
| OF | 30.40 | 8.03 | 15.92 |
| IF | 121.00 | 6.01 | 14.50 |
| IF | 140.00 | 4.99 | 13.79 |
| IF | 171.00 | 3.67 | 12.87 |
| IF | 195.00 | 3.67 | 12.77 |
| IF | 227.00 | 3.67 | 12.57 |
| IF | 270.00 | 3.67 | 12.27 |
| IF | 288.00 | 3.67 | 12.02 |
| IF | 320.00 | 3.67 | 11.82 |
| IF | 360.00 | 3.67 | 11.52 |
| IF | 394.90 | 3.67 | 11.22 |
| IF | 398.20 | 3.12 | 10.63 |
| IF | 401.80 | 1.33 | 9.33 |
| IF | 405.00 | 1.33 | 9.33 |
| IF | 411.90 | 1.33 | 9.33 |
| IF | 418.70 | 1.33 | 9.28 |
| IF | 425.50 | 1.33 | 9.23 |
| IF | 432.30 | 1.33 | 9.23 |
| IF | 439.10 | 1.25 | 9.12 |
| IF | 445.80 | 1.25 | 9.07 |
| IF | 452.60 | 1.25 | 9.02 |
| IF | 459.30 | 1.17 | 8.87 |
| IF | 466.00 | 1.17 | 8.82 |
| IF | 472.80 | 1.01 | 8.66 |
| IF | 509.00 | .62 | 8.24 |
| IF | 592.00 | .62 | 7.79 |

| | | | |
|---|---|---|---|
| IF | 670.00 | .63 | 7.44 |
| IF | 674.00 | .63 | 7.44 |

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = .63 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

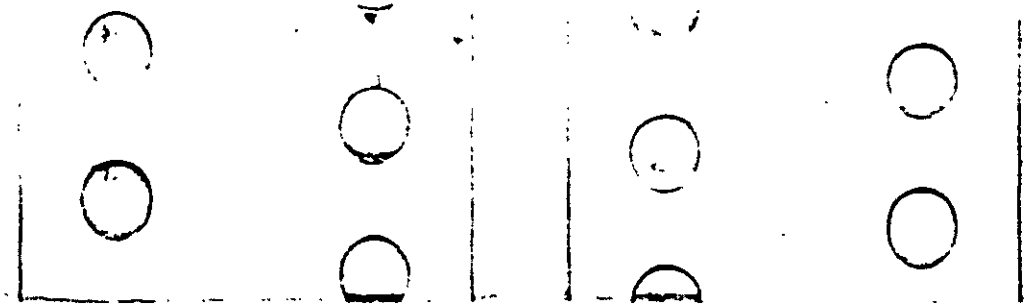
| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 195.00 | 6.30 | 10.10 |
| 227.00 | 6.30 | 9.90 |
| 270.00 | 6.30 | 9.50 |
| 288.00 | 6.30 | 9.40 |
| 320.00 | 6.30 | 9.10 |
| 360.00 | 6.30 | 8.80 |
| 394.90 | 6.30 | 8.50 |
| 398.20 | 6.30 | 8.40 |
| 418.70 | 6.30 | 8.30 |
| 439.10 | 6.30 | 8.20 |
| 452.60 | 6.30 | 8.10 |
| 459.30 | 6.30 | 8.00 |
| 472.80 | 6.30 | 7.90 |
| 509.00 | 6.30 | 7.70 |
| 592.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 398.44 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|

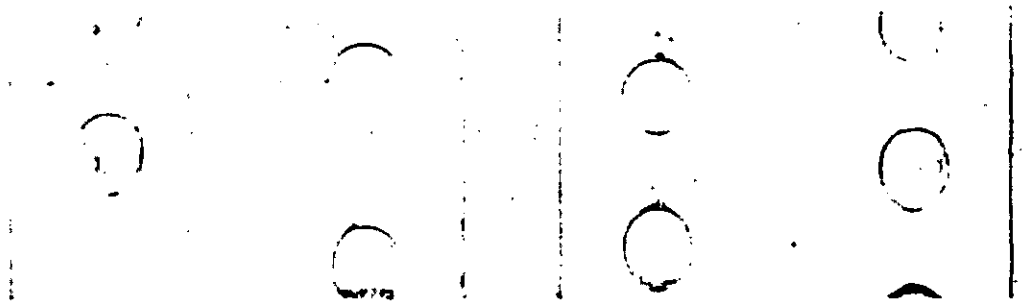


| | | | | | |
|---|---|---|---|---|---|
| .00 | 15.92 | | | | |
| | | V12 EL=16 | 60 | V12 EL=16 | FINAL MAPPED ZONES V12 EL=16 |
| 57.45 | 15.50 | | | | |
| | | V12 EL=15 | 60 | V12 EL=15 | |
| 121.11 | 14.50 | | | | |
| | | V12 EL=14 | 60 | V12 EL=14 | |
| 149.83 | 13.50 | | | | |
| | | V12 EL=13 | 60 | | |
| 171.00 | 12.87 | | | | |
| | | V12 EL=13 | 60 | | V12 EL=14 |
| 195.00 | 12.77 | | | V12 EL=13 | |
| | | V11 EL=13 | 55 | | |
| 227.00 | 12.57 | | | | |
| | | V11 EL=13 | 55 | | |
| 236.49 | 12.50 | | | | |
| | | V10 EL=12 | 50 | | |
| RUAD UN QUAD → 270.00 | 12.27 | | | | |
| | | V 9 EL=12 | 45 | | |
| 288.00 | 12.02 | | | | |
| | | V 9 EL=12 | 45 | V12 EL=12 | V12 EL=12 |
| 320.00 | 11.82 | | | | |
| | | V 8 EL=12 | 40 | | |
| 360.00 | 11.52 | | | | |
| | | V 7 EL=12 | 35 | | |
| 361.88 | 11.50 | | | | |
| | | V 7 EL=11 | 35 | | |
| 394.90 | 11.22 | | | | |
| | | V 7 EL=11 | 35 | V12 EL=11 | |
| 398.20 | 10.63 | | | | |
| | | V 7 EL=11 | 35 | | |
| 398.44 | 10.50 | | | | |
| | | A 4 EL=11 | 20 | | |

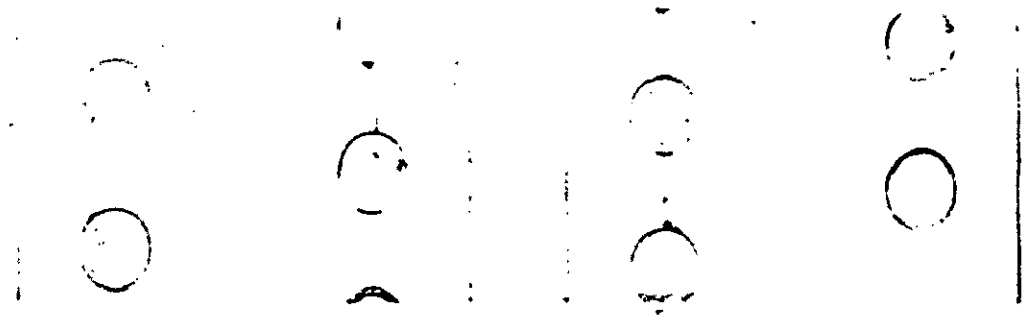
| | | | | | |
|---|---|---|---|---|---|
| 398.57 | 10.50 | | | | |
| | | A 4 EL=10 | 20 | | |
| 401.33 | 9.50 | | | | |
| | | A 4 EL= 9 | 20 | A4 EL=10 | A4 EL=10 |
| 411.90 | 9.33 | | | | |
| | | A 4 EL= 9 | 20 | | |
| 418.70 | 9.28 | | | | |
| | | A 4 EL= 9 | 20 | | |
| 432.30 | 9.23 | | | | |
| | | A 4 EL= 9 | 20 | | |
| 439.10 | 9.12 | | | | |
| | | A 4 EL= 9 | 20 | | |
| 445.80 | 9.07 | | | | |
| | | A 4 EL= 9 | 20 | | |
| 452.60 | 9.02 | | | | |
| | | A 4 EL= 9 | 20 | A4 EL=9 | |
| 459.30 | 8.87 | | | | |
| | | A 4 EL= 9 | 20 | | |
| 466.00 | 8.82 | | | | |
| | | A 4 EL= 9 | 20 | | |
| 472.80 | 8.66 | | | | |
| | | A 4 EL= 9 | 20 | | |
| 486.48 | 8.50 | | | | |
| | | A 4 EL= 8 | 20 | | |
| 509.00 | 8.24 | | | A4 EL=8 | A4 EL=8 |
| | | A 4 EL= 8 | 20 | | |
| 592.00 | 7.79 | | | | |
| | | A 4 EL= 8 | 20 | | |
| 656.14 | 7.50 | | | MATCH A4 EL=7 | MATCH A4 EL=7 |
| | | A 4 EL= 7 | 20 | | |
| 674.00 | 7.44 | | | | |

OH

NC 210 →



ZONE TERMINATED AT END OF TRANSECT



DEST=J9539.912.021 USER=J9539-912.021 QUEUE=LPT DEVICE=@LP01
SEQ=739 QPRI=129 LPP=68 CPL=133 COPIES=1 LIMIT=24

CREATED: 5-AUG-86 8:46:38
ENQUEUED: 5-AUG-86 8:48:00
PRINTING: 5-AUG-86 9:15:44

PATH=:UDD:J9539.912.021:COAST3.WHAFIS.ONSLOW.14.RESULTS

Greenhorne & O'Mara Inc-MV8000/A

AOS/VS REV 06.04
AOS/VS XLPT REV 05.00

FOR ONSLOW
WHAFIS
WITH NO
SOIL

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 14.000

PART1 INPUT

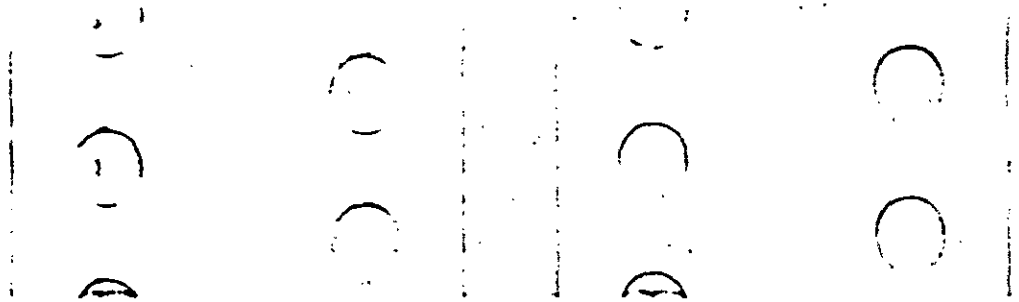
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 6.000 | -.600 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 25.700 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 98.000 | 2.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 120.000 | 4.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 143.000 | 6.200 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 166.000 | 3.300 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IE | 200.000 | 3.400 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 271.000 | 2.900 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 333.000 | 2.800 | .000 | 9.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 390.000 | 2.700 | .000 | 8.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 423.900 | 2.500 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 434.700 | 6.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 436.000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 441.700 | 6.900 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 448.700 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 455.700 | 6.800 | .000 | 8.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 462.600 | 6.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 469.400 | 6.700 | .000 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 476.200 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 483.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 489.800 | 6.600 | .000 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 542.000 | 6.300 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 521.000 | 5.400 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 574.000 | 5.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

DNR STAFA (GUAM)

STATE 710

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| OF | END STATION 9.000 | END ELEVATION -.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 25.700 | 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 98.000 | END ELEVATION 2.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 120.000 | END ELEVATION 4.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 143.000 | END ELEVATION 6.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 166.000 | END ELEVATION 3.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 200.000 | END ELEVATION 3.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 271.000 | END ELEVATION 2.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 333.000 | END ELEVATION 2.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 390.000 | END ELEVATION 2.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.600 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 428.900 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | END STATION 454.800 | END ELEVATION 6.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 456.000 | 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 441.700 | END ELEVATION 6.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.200 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 448.700 | 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 455.700 | END ELEVATION 6.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 462.600 | 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 469.400 | END ELEVATION 6.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 476.200 | 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 483.000 | 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 489.800 | END ELEVATION 6.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 542.000 | END ELEVATION 6.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 621.000 | END ELEVATION 5.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 674.000 | END ELEVATION 5.400 | 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 |
| | OF | 8.00 | 8.03 | 15.92 |
| | OF | 25.70 | 8.03 | 15.92 |
| | IF | 98.00 | 6.16 | 14.61 |
| | IF | 120.00 | 4.29 | 13.30 |
| | IF | 143.00 | 3.20 | 12.54 |
| | IF | 166.00 | 3.20 | 12.44 |
| | IF | 200.00 | 3.20 | 12.24 |
| ROAD ON QUAY → | IF | 271.00 | 3.20 | 11.89 |
| | IF | 333.00 | 3.20 | 11.44 |
| | IF | 390.00 | 3.20 | 11.04 |
| | IF | 428.90 | 3.20 | 10.69 |
| | IF | 434.70 | 1.72 | 9.50 |
| | IF | 436.00 | 1.01 | 9.01 |
| | IF | 441.70 | 1.01 | 8.96 |
| | IF | 448.70 | 1.01 | 8.91 |
| | IF | 455.70 | 1.01 | 8.86 |
| | IF | 462.60 | 1.01 | 8.81 |
| | IF | 469.30 | 1.01 | 8.76 |
| | IF | 476.20 | 1.01 | 8.71 |
| | IF | 483.00 | 1.01 | 8.71 |
| | IF | 489.80 | 1.01 | 8.66 |
| | IF | 542.00 | .94 | 8.36 |
| AC 210 → | IF | 621.00 | .94 | 7.91 |
| | IF | 674.00 | .94 | 7.66 |

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = .94 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 |
|---|---|---|
| 166.00 | 6.30 | 10.10 |
| 200.00 | 6.30 | 9.90 |
| 271.00 | 6.30 | 9.40 |
| 333.00 | 6.30 | 9.00 |
| 390.00 | 6.30 | 8.60 |
| 428.90 | 6.30 | 8.30 |
| 441.70 | 6.30 | 8.20 |
| 455.70 | 6.30 | 8.10 |
| 469.40 | 6.30 | 8.00 |
| 489.80 | 6.30 | 7.90 |
| 542.00 | 6.30 | 7.50 |
| 621.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 429.68 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 49.08 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 99.90 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 116.69 | 13.50 | | |
| | | V12 EL=13 | 60 |

V12 FL=16

V12 FL=15

V12 FL=14

FLYING

V =

FL - 16

| | | | |
|---|---|---|---|
| 143.00 | 12.54 | | |
| | | V12 EL=13 | 60 |
| 151.88 | 12.50 | | |
| | | V12 EL=12 | 60 |
| 166.00 | 12.44 | | |
| | | V11 EL=12 | 55 |
| 200.00 | 12.24 | | |
| | | V10 EL=12 | 50 |
| 271.00 | 11.89 | | |
| | | V 9 EL=12 | 45 |
| 324.79 | 11.50 | | |
| | | V 8 EL=11 | 40 |
| 333.00 | 11.44 | | |
| | | V 7 EL=11 | 35 |
| 390.00 | 11.04 | | |
| | | V 6 EL=11 | 30 |
| 428.90 | 10.69 | | |
| | | V 6 EL=11 | 30 |
| 429.68 | 10.40 | | |
| | | A 4 EL=11 | 20 |
| 429.93 | 10.50 | | |
| | | A 4 EL=10 | 20 |
| 434.70 | 9.50 | | |
| | | A 4 EL= 9 | 20 |
| 436.00 | 9.01 | | |
| | | A 4 EL= 9 | 20 |
| 441.70 | 8.96 | | |
| | | A 4 EL= 9 | 20 |
| 448.70 | 8.91 | | |
| | | A 4 EL= 9 | 20 |
| 455.70 | 8.86 | | |
| | | A 4 EL= 9 | 20 |

V12 EL=13

V12 EL=12

V12 EL=11

A4 EL=10

V12 EL=13

V12 EL=12

V12 EL=11

A4 EL=10

| | | | | | |
|---|---|---|---|---|---|
| | 462.60 | 8.81 | | | |
| | | | A 4 EL= 9 | 20 | |
| | 469.40 | 8.76 | | | |
| | | | A 4 EL= 9 | 20 | A9 EL=9 |
| | 483.00 | 8.71 | | | |
| | | | A 4 EL= 9 | 20 | |
| | 489.80 | 8.66 | | | |
| | | | A 4 EL= 9 | 20 | |
| | 517.19 | 8.50 | | | |
| | | | A 4 EL= 8 | 20 | |
| | 542.00 | 8.36 | | | A9 EL: 8 |
| | | | A 4 EL= 8 | 20 | |
| NC 710 → | 621.00 | 7.91 | | | |
| | | | A 4 EL= 8 | 20 | MATCH A9 EL=7 |
| | 674.00 | 7.66 | | | |

A9 FL: 9

A9 FL: 8

A9 MATCH FL: 7

ZONE TERMINATED AT END OF TRANSECT

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 1

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 1.000 | 23.000 | -97.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -4200.000 | -24.000 | -2710.000 | -18.000 | -1220.000 | -15.000 | -910.000 | -12.000 | -600.000 |
| GR | -9.000 | -495.000 | -6.000 | -390.000 | -3.000 | -195.000 | -1.500 | -97.500 | .000 | .000 |
| GR | 2.900 | 38.000 | 5.700 | 75.000 | 6.600 | 119.000 | 9.400 | 126.000 | 10.700 | 150.000 |
| GR | 13.700 | 166.000 | 7.900 | 197.000 | 7.800 | 242.000 | 8.700 | 316.000 | 8.500 | 405.000 |
| GR | 7.200 | 475.000 | 6.600 | 507.000 | 6.600 | 1000.000 | | | | |

LISTING OF OUTPUT

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

STILL WATER ELEVATION= 10.300 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.107 CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1954.698
EROSION AREA = 1954.239

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -4200.000 | -24.000 | -2710.000 | -18.000 | -1220.000 | -15.000 | -910.000 | -13.601 | -765.430 |
| -6.952 | -702.165 | -6.482 | -600.000 | -5.059 | -495.000 | -3.635 | -390.000 | -2.212 | -195.000 |
| -1.500 | -97.500 | -.788 | .000 | .588 | 38.000 | 1.916 | 75.000 | 2.344 | 119.000 |
| 3.672 | 126.000 | 4.289 | 150.000 | 5.713 | 166.000 | 2.960 | 197.000 | 2.913 | 242.000 |
| 3.340 | 316.000 | 3.250 | 400.540 | 6.037 | 405.000 | 8.430 | 408.830 | 8.350 | 413.170 |
| 7.200 | 476.000 | 6.600 | 507.000 | 6.600 | 1000.000 | | | | |

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 | 2.900 | 38.000 | 5.700 | 75.000 | 6.600 | 119.000 | 9.400 | 126.000 |
| 10.700 | 150.000 | 13.700 | 166.000 | 7.900 | 197.000 | 7.800 | 242.000 | 8.700 | 316.000 |
| 8.510 | 400.540 | 8.500 | 405.000 | 8.430 | 408.830 | 8.350 | 413.170 | 7.200 | 476.000 |
| 6.600 | 507.000 | 6.600 | 1000.000 | | | | | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | .588 | 38.000 | 1.916 | 75.000 | 2.344 | 119.000 | 3.672 | 126.000 |
| 4.289 | 150.000 | 5.713 | 166.000 | 2.960 | 197.000 | 2.913 | 242.000 | 3.340 | 316.000 |
| 3.250 | 400.540 | 6.037 | 405.000 | 8.430 | 408.830 | 8.350 | 413.170 | 7.200 | 476.000 |
| 6.600 | 507.000 | 6.600 | 1000.000 | | | | | | |

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

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 1.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 21.8 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 38.0 | .6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 75.0 | 1.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 119.0 | 2.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 126.0 | 3.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 150.0 | 4.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 166.0 | 5.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 197.0 | 3.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 242.0 | 2.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 516.0 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 400.5 | 3.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 405.0 | 6.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 408.8 | 8.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 415.2 | 8.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 476.0 | 7.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 507.0 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 2

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 2.000 | 26.000 | -112.800 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -3650.000 | -27.000 | -3037.500 | -24.000 | -2425.000 | -21.000 | -1812.500 | -18.000 | -1200.000 |
| GR | -15.000 | -950.000 | -12.000 | -700.000 | -9.000 | -600.000 | -6.000 | -500.000 | -3.000 | -250.000 |
| GR | -1.500 | -112.800 | .000 | .000 | 4.000 | 63.000 | 6.300 | 103.000 | 8.700 | 124.000 |
| GR | 8.800 | 125.000 | 9.800 | 202.000 | 16.500 | 222.000 | 12.600 | 243.000 | 9.400 | 273.000 |
| GR | 9.700 | 336.000 | 8.900 | 376.000 | 8.500 | 416.000 | 7.600 | 488.000 | 6.700 | 543.000 |
| GR | 6.600 | 588.000 | | | | | | | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 2.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1908.161
EROSION AREA = 1907.661

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -3650.000 | -27.000 | -3037.500 | -24.000 | -2425.000 | -21.000 | -1812.500 | -18.000 | -1200.000 |
| -15.000 | -950.000 | -13.767 | -847.234 | -6.952 | -782.391 | -6.482 | -700.000 | -5.059 | -600.000 |
| -3.635 | -500.000 | -2.212 | -250.000 | -1.500 | -112.800 | -.788 | .000 | 1.110 | 63.000 |
| 2.201 | 103.000 | 3.340 | 124.000 | 3.387 | 125.000 | 3.862 | 202.000 | 7.041 | 222.000 |
| 5.191 | 243.000 | 3.672 | 273.000 | 3.815 | 336.000 | 3.571 | 361.638 | 7.163 | 367.386 |
| 9.013 | 370.347 | 8.900 | 376.000 | 8.814 | 384.608 | 8.500 | 416.000 | 7.600 | 488.000 |
| 6.700 | 543.000 | 6.600 | 588.000 | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 2.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 4.000 | 63.000 | 6.300 | 103.000 | 8.700 | 124.000 | 8.800 | 125.000 |
| 9.800 | 202.000 | 16.500 | 222.000 | 12.600 | 243.000 | 9.400 | 273.000 | 9.700 | 336.000 |
| 9.187 | 361.638 | 9.072 | 367.386 | 9.013 | 370.347 | 8.900 | 376.000 | 8.814 | 384.608 |
| 8.500 | 416.000 | 7.600 | 488.000 | 6.700 | 543.000 | 6.600 | 588.000 | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | 1.110 | 63.000 | 2.201 | 103.000 | 3.340 | 124.000 | 3.387 | 125.000 |
| 3.862 | 202.000 | 7.041 | 222.000 | 5.191 | 243.000 | 3.672 | 273.000 | 3.815 | 336.000 |
| 3.571 | 361.638 | 7.163 | 367.386 | 9.013 | 370.347 | 8.900 | 376.000 | 8.814 | 384.608 |
| 8.500 | 416.000 | 7.600 | 488.000 | 6.700 | 543.000 | 6.600 | 588.000 | | |

* * * * * TRANSECT NUMBER 2.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 2.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 26.2 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 83.0 | 1.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 103.0 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 124.0 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 125.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 202.0 | 3.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 222.0 | 7.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 243.0 | 5.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 273.0 | 3.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 336.0 | 3.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 361.6 | 3.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 367.4 | 7.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 370.3 | 9.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 376.0 | 8.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 384.6 | 8.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 416.0 | 8.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 488.0 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 543.0 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 582.0 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| AS | 674.0 | 10.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

```
T1   ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 3
T2   BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

     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    25.000   -27.600     10.300      1.000    34.450     1.000      1.000      .000      .000

     RADIUS TO  SEDIMENT                        TRANS     END OF    10-YEAR     WHAFIS     NGVD-
     MAX WIND   DIAMETER      F-G,E      F-M    SPEED     EROSION   STILL EL    OPTION     MSL
X2     28.750       .400       .800       .900  11.500    674.000      6.300      1.000     -.500      .000

     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -30.000 -6300.000   -24.000 -3650.500   -18.000 -1000.000   -15.000  -875.000   -12.000  -750.000
GR       -9.000  -670.000    -6.000  -590.000    -1.900   -35.000    -1.500   -27.600      .000      .000
GR        5.800   101.000     7.400   108.000     9.900   151.000    11.200   167.000    13.400   234.000
GR       12.700   249.000     8.800   264.000     9.900   295.000     8.500   355.000     7.200   413.000
GR        7.100   527.000     6.700   639.000     6.200   696.000     6.100   759.000     6.100  1000.000
```

LISTING OF OUTPUT

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

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1808.593
EROSION AREA = 1808.582

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -6300.000 | -24.000 | -3650.500 | -18.000 | -1000.000 | -15.000 | -875.000 | -14.775 | -865.633 |
| -6.952 | -791.196 | -6.482 | -750.000 | -5.059 | -670.000 | -3.635 | -590.000 | -1.690 | -35.000 |
| -1.500 | -27.600 | -.788 | .000 | 1.964 | 101.000 | 2.723 | 108.000 | 3.909 | 151.000 |
| 4.526 | 167.000 | 5.570 | 234.000 | 5.238 | 249.000 | 3.387 | 264.000 | 3.909 | 295.000 |
| 3.307 | 349.448 | 6.776 | 355.000 | 8.440 | 357.664 | 8.318 | 363.118 | 7.200 | 413.000 |
| 7.100 | 527.000 | 6.700 | 639.000 | 6.200 | 696.000 | 6.100 | 759.000 | 6.100 | 1000.000 |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 3.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 5.800 | 101.000 | 7.400 | 108.000 | 9.900 | 151.000 | 11.200 | 167.000 |
| 13.400 | 234.000 | 12.700 | 249.000 | 8.800 | 264.000 | 9.900 | 295.000 | 8.630 | 349.448 |
| 8.500 | 355.000 | 8.440 | 357.664 | 8.318 | 363.118 | 7.200 | 413.000 | 7.100 | 527.000 |
| 6.700 | 639.000 | 6.200 | 696.000 | 6.100 | 759.000 | 6.100 | 1000.000 | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | 1.964 | 101.000 | 2.723 | 108.000 | 3.909 | 151.000 | 4.526 | 167.000 |
| 5.570 | 234.000 | 5.238 | 249.000 | 3.387 | 264.000 | 3.909 | 295.000 | 3.307 | 349.448 |
| 6.776 | 355.000 | 8.440 | 357.664 | 8.318 | 363.118 | 7.200 | 413.000 | 7.100 | 527.000 |
| 6.700 | 639.000 | 6.200 | 696.000 | 6.100 | 759.000 | 6.100 | 1000.000 | | |


64

# ADDITIONAL INFORMATION

* * * * * TRANSECT NUMBER 3.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 3.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 28.9 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 101.0 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 108.0 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 151.0 | 3.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 167.0 | 4.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 234.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 249.0 | 5.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 264.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 295.0 | 3.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 349.4 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 355.0 | 6.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 357.7 | 8.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 363.1 | 8.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 413.0 | 7.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 527.0 | 7.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 639.0 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 6.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 4

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 4.000 | 18.000 | -187.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -5680.000 | -24.000 | -3430.000 | -18.000 | -1180.000 | -15.000 | -1065.000 | -12.000 | -950.000 |
| GR | -9.000 | -850.000 | -6.000 | -750.000 | -3.000 | -375.000 | -1.500 | -187.500 | -.800 | -18.000 |
| GR | .000 | .000 | 3.500 | 54.000 | 7.500 | 72.000 | 5.400 | 103.000 | 5.600 | 108.000 |
| GR | 4.800 | 282.000 | 4.000 | 598.000 | 4.000 | 1000.000 | | | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 4.000 * * * * * DUNE EROSION ANALYSIS

STILL WATER ELEVATION= 10.300 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.107 CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1902.894
EROSION AREA = 1903.389

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -5680.000 | -24.000 | -3430.000 | -18.000 | -1180.000 | -15.000 | -1065.000 | -14.982 | -1064.303 |
| -6.952 | -987.900 | -6.482 | -950.000 | -5.059 | -850.000 | -3.635 | -750.000 | -2.212 | -375.000 |
| -1.500 | -187.500 | -1.168 | -18.000 | -.788 | .000 | .873 | 54.000 | 2.771 | 72.000 |
| 1.774 | 103.000 | 1.869 | 108.000 | 1.489 | 282.000 | 1.128 | 582.962 | 1.854 | 584.125 |
| 4.026 | 587.601 | 4.023 | 588.760 | 4.012 | 593.385 | 4.000 | 598.000 | 4.000 | 602.625 |
| 4.000 | 1000.000 | | | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 4.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 3.500 | 54.000 | 7.500 | 72.000 | 5.400 | 103.000 | 5.600 | 108.000 |
| 4.800 | 282.000 | 4.038 | 582.962 | 4.035 | 584.125 | 4.026 | 587.601 | 4.023 | 588.760 |
| 4.012 | 593.385 | 4.000 | 598.000 | 4.000 | 602.625 | 4.000 | 1000.000 | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | .873 | 54.000 | 2.771 | 72.000 | 1.774 | 103.000 | 1.869 | 108.000 |
| 1.489 | 282.000 | 1.128 | 582.962 | 1.854 | 584.125 | 4.026 | 587.601 | 4.023 | 588.760 |
| 4.012 | 593.385 | 4.000 | 598.000 | 4.000 | 602.625 | 4.000 | 1000.000 | | |

* * * * * TRANSECT NUMBER 4.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 4.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 25.6 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 54.0 | .9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 72.0 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 103.0 | 1.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 108.0 | 1.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 282.0 | 1.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 583.0 | 1.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 584.1 | 1.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 587.6 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 588.8 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 593.4 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 598.0 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 602.6 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

**********  LISTING OF INPUT DATA  **********

T1  ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 5

T2  BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 5.000 | 22.000 | -112.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |
| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -5000.000 | -24.000 | -2950.000 | -18.000 | -900.000 | -15.000 | -850.000 | -12.000 | -800.000 |
| GR | -9.000 | -625.000 | -6.000 | -450.000 | -3.000 | -225.000 | -1.500 | -112.500 | .000 | .000 |
| GR | 1.300 | 12.000 | 6.200 | 57.000 | 10.100 | 66.000 | 15.000 | 76.000 | 9.000 | 96.000 |
| GR | 9.200 | 108.000 | 9.000 | 130.000 | 12.600 | 149.000 | 8.600 | 167.000 | 7.300 | 215.000 |
| GR | 7.300 | 950.000 | 7.300 | 1000.000 | | | | | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 5.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107

PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 2163.813
EROSION AREA = 2164.185

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -5000.000 | -24.000 | -2950.000 | -18.065 | -922.216 | -18.000 | -900.000 | -10.475 | -850.000 |
| -6.952 | -816.478 | -6.482 | -800.000 | -5.059 | -625.000 | -3.635 | -450.000 | -2.212 | -225.000 |
| -1.500 | -112.500 | -.788 | .000 | -.171 | 12.000 | 2.154 | 57.000 | 4.004 | 66.000 |
| 6.329 | 76.000 | 3.482 | 96.000 | 3.577 | 108.000 | 3.482 | 130.000 | 5.191 | 149.000 |
| 5.293 | 167.000 | 2.676 | 215.000 | 2.676 | 439.551 | 7.264 | 446.894 | 7.300 | 446.952 |
| 7.300 | 454.293 | 7.300 | 461.691 | 7.300 | 469.090 | 7.300 | 476.489 | 7.300 | 483.887 |
| 7.300 | 491.286 | 7.300 | 498.684 | 7.300 | 506.083 | 7.300 | 513.482 | 7.300 | 520.880 |
| 7.300 | 528.279 | 7.300 | 535.678 | 7.300 | 543.076 | 7.300 | 550.475 | 7.300 | 557.873 |
| 7.300 | 565.272 | 7.300 | 572.671 | 7.300 | 580.069 | 7.300 | 587.468 | 7.300 | 594.866 |
| 7.300 | 602.265 | 7.300 | 609.664 | 7.300 | 617.062 | 7.300 | 624.461 | 7.300 | 631.860 |
| 7.300 | 639.258 | 7.300 | 646.657 | 7.300 | 654.055 | 7.300 | 661.454 | 7.300 | 668.853 |
| 7.300 | 676.251 | 7.300 | 683.650 | 7.300 | 691.048 | 7.300 | 698.447 | 7.300 | 705.846 |
| 7.300 | 713.244 | 7.300 | 720.643 | 7.300 | 728.042 | 7.300 | 735.440 | 7.300 | 742.839 |
| 7.300 | 750.237 | 7.300 | 757.636 | 7.300 | 765.035 | 7.300 | 772.433 | 7.300 | 779.832 |
| 7.300 | 787.230 | 7.300 | 794.629 | 7.300 | 802.028 | 7.300 | 809.426 | 7.300 | 816.825 |
| 7.300 | 824.224 | 7.300 | 831.622 | 7.300 | 839.021 | 7.300 | 846.419 | 7.300 | 853.818 |
| 7.300 | 861.217 | 7.300 | 868.615 | 7.300 | 876.014 | 7.300 | 883.412 | 7.300 | 890.811 |
| 7.300 | 898.210 | 7.300 | 905.608 | 7.300 | 913.007 | 7.300 | 920.406 | 7.300 | 927.804 |
| 7.300 | 935.203 | 7.300 | 942.601 | 7.300 | 950.000 | 7.300 | 957.400 | 7.300 | 1000.000 |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 5.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 1.300 | 12.000 | 6.200 | 57.000 | 10.100 | 66.000 | 15.000 | 76.000 |
| 9.000 | 96.000 | 9.200 | 108.000 | 9.000 | 130.000 | 12.600 | 149.000 | 8.600 | 167.000 |
| 7.300 | 215.000 | 7.300 | 439.551 | 7.300 | 446.894 | 7.300 | 446.952 | 7.300 | 454.293 |
| 7.300 | 461.691 | 7.300 | 469.090 | 7.300 | 476.489 | 7.300 | 483.887 | 7.300 | 491.286 |
| 7.300 | 498.684 | 7.300 | 506.083 | 7.300 | 513.482 | 7.300 | 520.880 | 7.300 | 528.279 |
| 7.300 | 535.678 | 7.300 | 543.076 | 7.300 | 550.475 | 7.300 | 557.873 | 7.300 | 565.272 |
| 7.300 | 572.671 | 7.300 | 580.069 | 7.300 | 587.468 | 7.300 | 594.866 | 7.300 | 602.265 |
| 7.300 | 609.664 | 7.300 | 617.062 | 7.300 | 624.461 | 7.300 | 631.860 | 7.300 | 639.258 |
| 7.300 | 646.657 | 7.300 | 654.055 | 7.300 | 661.454 | 7.300 | 668.853 | 7.300 | 676.251 |
| 7.300 | 683.650 | 7.300 | 691.048 | 7.300 | 698.447 | 7.300 | 705.846 | 7.300 | 713.244 |
| 7.300 | 720.643 | 7.300 | 728.042 | 7.300 | 735.440 | 7.300 | 742.839 | 7.300 | 750.237 |
| 7.300 | 757.636 | 7.300 | 765.035 | 7.300 | 772.433 | 7.300 | 779.832 | 7.300 | 787.230 |
| 7.300 | 794.629 | 7.300 | 802.028 | 7.300 | 809.426 | 7.300 | 816.825 | 7.300 | 824.224 |
| 7.300 | 851.622 | 7.300 | 839.021 | 7.300 | 846.419 | 7.300 | 853.818 | 7.300 | 861.217 |
| 7.300 | 868.615 | 7.300 | 876.014 | 7.300 | 883.412 | 7.300 | 890.811 | 7.300 | 898.210 |
| 7.300 | 905.608 | 7.300 | 913.007 | 7.300 | 920.406 | 7.300 | 927.804 | 7.300 | 935.203 |
| 7.300 | 942.601 | 7.300 | 950.000 | 7.300 | 957.400 | 7.300 | 1000.000 | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.171 | 12.000 | 2.154 | 57.000 | 4.004 | 66.000 | 6.329 | 76.000 |
| 3.482 | 96.000 | 3.577 | 108.000 | 3.482 | 130.000 | 5.191 | 149.000 | 3.293 | 167.000 |
| 2.676 | 215.000 | 2.676 | 439.551 | 7.264 | 446.894 | 7.300 | 446.952 | 7.300 | 454.293 |
| 7.300 | 461.691 | 7.300 | 469.090 | 7.300 | 476.489 | 7.300 | 483.887 | 7.300 | 491.286 |
| 7.300 | 498.684 | 7.300 | 506.083 | 7.300 | 513.482 | 7.300 | 520.880 | 7.300 | 528.279 |
| 7.300 | 535.678 | 7.300 | 543.076 | 7.300 | 550.475 | 7.300 | 557.873 | 7.300 | 565.272 |
| 7.300 | 572.671 | 7.300 | 580.069 | 7.300 | 587.468 | 7.300 | 594.866 | 7.300 | 602.265 |
| 7.300 | 609.664 | 7.300 | 617.062 | 7.300 | 624.461 | 7.300 | 631.860 | 7.300 | 639.258 |
| 7.300 | 646.657 | 7.300 | 654.055 | 7.300 | 661.454 | 7.300 | 668.853 | 7.300 | 676.251 |
| 7.300 | 683.650 | 7.300 | 691.048 | 7.300 | 698.447 | 7.300 | 705.846 | 7.300 | 713.244 |
| 7.300 | 720.643 | 7.300 | 728.042 | 7.300 | 735.440 | 7.300 | 742.839 | 7.300 | 750.237 |
| 7.300 | 757.636 | 7.300 | 765.035 | 7.300 | 772.433 | 7.300 | 779.832 | 7.300 | 787.230 |
| 7.300 | 794.629 | 7.300 | 802.028 | 7.300 | 809.426 | 7.300 | 816.825 | 7.300 | 824.224 |
| 7.300 | 851.622 | 7.300 | 839.021 | 7.300 | 846.419 | 7.300 | 853.818 | 7.300 | 861.217 |
| 7.300 | 868.615 | 7.300 | 876.014 | 7.300 | 883.412 | 7.300 | 890.811 | 7.300 | 898.210 |
| 7.300 | 905.608 | 7.300 | 913.007 | 7.300 | 920.406 | 7.300 | 927.804 | 7.300 | 935.203 |
| 7.300 | 942.601 | 7.300 | 950.000 | 7.300 | 957.400 | 7.300 | 1000.000 | | |

* * * * * TRANSECT NUMBER 5.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 5.000

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IE .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF 12.0 | -.2 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF 15.3 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF 57.0 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 66.0 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 76.0 | 6.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 96.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 108.0 | 3.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 130.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 149.0 | 5.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 167.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 215.0 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 439.6 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 446.9 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 447.0 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 454.3 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 461.7 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 469.1 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 476.5 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 483.9 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 491.3 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 498.7 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 506.1 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 513.5 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 520.9 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 528.3 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 535.7 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 543.1 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 550.5 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 557.9 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 565.3 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 572.7 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 580.1 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 587.5 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 594.9 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 602.3 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 609.7 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 617.1 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 624.5 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 631.9 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 639.3 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 646.7 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 654.1 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 661.5 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 668.9 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF 674.0 | 7.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

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T1   ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 6
T2   BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

     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      6.000    26.000 -112.800     10.300     1.000    34.450     1.000    1.000      .000      .000

     RADIUS TO  SEDIMENT                          TRANS   END OF   10-YEAR   WHAFIS    NGVD-
     MAX WIND   DIAMETER      F-G,E       F-M     SPEED   EROSION  STILL EL  OPTION    MSL
X2     28.750       .400       .800       .900    11.500   674.000     6.300    1.000    -.500      .000

       ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR       -50.000 -2820.000   -24.000 -1885.000   -18.000 -950.000   -15.000 -825.000   -12.000 -700.000
GR        -9.000  -575.000    -6.000  -450.000    -3.000 -225.000    -1.500 -112.800      .000      .000
GR         1.000    12.000     4.700    60.000     7.700   76.000    12.300   86.000    14.000   100.000
GR        12.400   115.000     9.100   131.000    11.600  145.000     8.200  154.000     8.600   170.000
GR         8.000   199.000    11.100   222.000     8.400  247.000     7.600  275.000     7.600   950.000
GR         7.600  1000.000
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 6.000 * * * * * DUNE EROSION ANALYSIS

STILL WATER ELEVATION= 10.300 NGVD PIVOT ELEVATION= -2.000 MSL
SLOPE FLATENING FACTOR= 2.107 CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1846.912
EROSION AREA = 1847.304

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2820.000 | -24.000 | -1885.000 | -18.000 | -950.000 | -15.000 | -825.000 | -14.775 | -815.633 |
| -6.952 | -741.196 | -6.482 | -700.000 | -5.059 | -575.000 | -3.635 | -450.000 | -2.212 | -225.000 |
| -1.500 | -112.800 | -.788 | .000 | -.314 | 12.000 | 1.442 | 60.000 | 2.866 | 76.000 |
| 5.048 | 86.000 | 5.855 | 100.000 | 5.096 | 115.000 | 3.530 | 131.000 | 4.716 | 145.000 |
| 5.103 | 154.000 | 3.293 | 170.000 | 3.008 | 199.000 | 4.479 | 222.000 | 3.198 | 247.000 |
| 2.818 | 275.000 | 2.818 | 361.840 | 7.002 | 368.536 | 7.600 | 369.492 | 7.600 | 376.187 |
| 7.600 | 422.092 | 7.600 | 429.743 | 7.600 | 437.394 | 7.600 | 445.044 | 7.600 | 452.695 |
| 7.600 | 460.546 | 7.600 | 467.997 | 7.600 | 475.648 | 7.600 | 483.299 | 7.600 | 490.950 |
| 7.600 | 498.600 | 7.600 | 506.251 | 7.600 | 513.902 | 7.600 | 521.553 | 7.600 | 529.204 |
| 7.600 | 536.855 | 7.600 | 544.505 | 7.600 | 552.156 | 7.600 | 559.807 | 7.600 | 567.458 |
| 7.600 | 575.109 | 7.600 | 582.760 | 7.600 | 590.410 | 7.600 | 598.061 | 7.600 | 605.712 |
| 7.600 | 613.363 | 7.600 | 621.014 | 7.600 | 628.665 | 7.600 | 636.316 | 7.600 | 643.966 |
| 7.600 | 651.617 | 7.600 | 659.268 | 7.600 | 666.919 | 7.600 | 674.570 | 7.600 | 682.221 |
| 7.600 | 689.871 | 7.600 | 697.522 | 7.600 | 705.173 | 7.600 | 712.824 | 7.600 | 720.475 |
| 7.600 | 728.126 | 7.600 | 735.776 | 7.600 | 743.427 | 7.600 | 751.078 | 7.600 | 758.729 |
| 7.600 | 766.380 | 7.600 | 774.031 | 7.600 | 781.681 | 7.600 | 789.332 | 7.600 | 796.983 |
| 7.600 | 804.634 | 7.600 | 812.285 | 7.600 | 819.936 | 7.600 | 827.587 | 7.600 | 835.237 |
| 7.600 | 842.888 | 7.600 | 850.539 | 7.600 | 858.190 | 7.600 | 865.841 | 7.600 | 873.492 |
| 7.600 | 881.142 | 7.600 | 888.793 | 7.600 | 896.444 | 7.600 | 904.095 | 7.600 | 911.746 |
| 7.600 | 919.397 | 7.600 | 927.047 | 7.600 | 934.698 | 7.600 | 942.349 | 7.600 | 950.000 |
| 7.600 | 957.653 | 7.600 | 1000.000 | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 6.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 1.000 | 12.000 | 4.700 | 60.000 | 7.700 | 76.000 | 12.300 | 86.000 |
| 14.000 | 100.000 | 12.400 | 115.000 | 9.100 | 131.000 | 11.600 | 145.000 | 8.200 | 154.000 |
| 8.600 | 170.000 | 8.000 | 199.000 | 11.100 | 222.000 | 8.400 | 247.000 | 7.600 | 275.000 |
| 7.600 | 361.840 | 7.600 | 368.536 | 7.600 | 369.492 | 7.600 | 376.187 | 7.600 | 383.838 |
| 7.600 | 391.489 | 7.600 | 399.139 | 7.600 | 406.790 | 7.600 | 414.441 | 7.600 | 422.092 |
| 7.600 | 429.743 | 7.600 | 437.394 | 7.600 | 445.044 | 7.600 | 452.695 | 7.600 | 460.346 |
| 7.600 | 467.997 | 7.600 | 475.648 | 7.600 | 483.299 | 7.600 | 490.950 | 7.600 | 498.600 |
| 7.600 | 506.251 | 7.600 | 513.902 | 7.600 | 521.553 | 7.600 | 529.204 | 7.600 | 536.855 |
| 7.600 | 544.505 | 7.600 | 552.156 | 7.600 | 559.807 | 7.600 | 567.458 | 7.600 | 575.109 |
| 7.600 | 582.760 | 7.600 | 590.410 | 7.600 | 598.061 | 7.600 | 605.712 | 7.600 | 613.363 |
| 7.600 | 621.014 | 7.600 | 628.665 | 7.600 | 636.316 | 7.600 | 643.966 | 7.600 | 651.617 |
| 7.600 | 659.268 | 7.600 | 666.919 | 7.600 | 674.570 | 7.600 | 682.221 | 7.600 | 689.871 |
| 7.600 | 697.522 | 7.600 | 705.173 | 7.600 | 712.824 | 7.600 | 720.475 | 7.600 | 728.126 |
| 7.600 | 735.776 | 7.600 | 743.427 | 7.600 | 751.078 | 7.600 | 758.729 | 7.600 | 766.380 |
| 7.600 | 774.031 | 7.600 | 781.631 | 7.600 | 789.332 | 7.600 | 796.983 | 7.600 | 804.634 |
| 7.600 | 812.285 | 7.600 | 819.936 | 7.600 | 827.587 | 7.600 | 835.237 | 7.600 | 842.888 |
| 7.600 | 850.539 | 7.600 | 858.190 | 7.600 | 865.841 | 7.600 | 873.492 | 7.600 | 881.142 |
| 7.600 | 888.793 | 7.600 | 896.444 | 7.600 | 904.095 | 7.600 | 911.746 | 7.600 | 919.397 |
| 7.600 | 927.047 | 7.600 | 934.698 | 7.600 | 942.349 | 7.600 | 950.000 | 7.600 | 957.653 |
| 7.600 | 1000.000 | | | | | | | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.314 | 12.000 | 1.442 | 60.000 | 2.866 | 76.000 | 5.048 | 86.000 |
| 5.855 | 100.000 | 5.096 | 115.000 | 3.530 | 131.000 | 4.716 | 145.000 | 3.103 | 154.000 |
| 3.293 | 170.000 | 3.008 | 199.000 | 4.479 | 222.000 | 3.198 | 247.000 | 2.818 | 275.000 |
| 2.818 | 361.840 | 7.002 | 368.536 | 7.600 | 369.492 | 7.600 | 376.187 | 7.600 | 383.838 |
| 7.600 | 391.489 | 7.600 | 399.139 | 7.600 | 406.790 | 7.600 | 414.441 | 7.600 | 422.092 |
| 7.600 | 429.743 | 7.600 | 437.394 | 7.600 | 445.044 | 7.600 | 452.695 | 7.600 | 460.346 |
| 7.600 | 467.997 | 7.600 | 475.648 | 7.600 | 483.299 | 7.600 | 490.950 | 7.600 | 498.600 |
| 7.600 | 506.251 | 7.600 | 513.902 | 7.600 | 521.553 | 7.600 | 529.204 | 7.600 | 536.855 |
| 7.600 | 544.505 | 7.600 | 552.156 | 7.600 | 559.807 | 7.600 | 567.458 | 7.600 | 575.109 |
| 7.600 | 582.760 | 7.600 | 590.410 | 7.600 | 598.061 | 7.600 | 605.712 | 7.600 | 613.363 |
| 7.600 | 621.014 | 7.600 | 628.665 | 7.600 | 636.316 | 7.600 | 643.966 | 7.600 | 651.617 |
| 7.600 | 659.268 | 7.600 | 666.919 | 7.600 | 674.570 | 7.600 | 682.221 | 7.600 | 689.871 |
| 7.600 | 697.522 | 7.600 | 705.173 | 7.600 | 712.824 | 7.600 | 720.475 | 7.600 | 728.126 |
| 7.600 | 735.776 | 7.600 | 743.427 | 7.600 | 751.078 | 7.600 | 758.729 | 7.600 | 766.380 |
| 7.600 | 774.031 | 7.600 | 781.681 | 7.600 | 789.332 | 7.600 | 796.983 | 7.600 | 804.634 |
| 7.600 | 812.285 | 7.600 | 819.936 | 7.600 | 827.587 | 7.600 | 835.237 | 7.600 | 842.888 |
| 7.600 | 850.539 | 7.600 | 858.190 | 7.600 | 865.841 | 7.600 | 873.492 | 7.600 | 881.142 |
| 7.600 | 888.793 | 7.600 | 896.444 | 7.600 | 904.095 | 7.600 | 911.746 | 7.600 | 919.397 |
| 7.600 | 927.047 | 7.600 | 934.698 | 7.600 | 942.349 | 7.600 | 950.000 | 7.600 | 957.653 |
| 7.600 | 1000.000 | | | | | | | | |

* * * * * TRANSECT NUMBER 6.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 6.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 12.0 | -.3 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 20.6 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 60.0 | 1.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 76.0 | 2.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 86.0 | 5.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 100.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 115.0 | 5.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 131.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 145.0 | 4.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 154.0 | 3.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 170.0 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 199.0 | 3.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 222.0 | 4.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 247.0 | 3.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 275.0 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 361.8 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 368.5 | 7.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 369.5 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 376.2 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 383.8 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 391.5 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 399.1 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 406.8 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 414.4 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 422.1 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 429.7 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 437.4 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 445.0 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 452.7 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 460.3 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 468.0 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 475.6 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 483.3 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 490.9 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 498.6 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 506.3 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 513.9 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 521.6 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 529.2 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 536.9 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 544.5 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 552.2 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 559.8 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 567.5 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 575.1 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 582.8 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 590.4 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 598.1 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 605.7 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 613.4 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |

IF 621.0 7.6 0. 0. 0. 0. 0. 0. 0. 0.
IF 628.7 7.6 0. 0. 0. 0. 0. 0. 0. 0.
IF 636.3 7.6 0. 0. 0. 0. 0. 0. 0. 0.
IF 644.0 7.6 0. 0. 0. 0. 0. 0. 0. 0.
IF 651.6 7.6 0. 0. 0. 0. 0. 0. 0. 0.
IF 659.3 7.6 0. 0. 0. 0. 0. 0. 0. 0.
IF 666.9 7.6 0. 0. 0. 0. 0. 0. 0. 0.
IF 674.0 7.6 0. 0. 0. 0. 0. 0. 0. 0.
E1 1000.0 1000.0 5.0

△

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 7

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 7.000 | 25.000 | -125.000 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G/E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -2520.000 | -24.000 | -1750.000 | -18.000 | -980.000 | -15.000 | -845.000 | -12.000 | -710.000 |
| GR | -9.000 | -605.000 | -6.000 | -500.000 | -3.000 | -250.000 | -1.500 | -125.000 | .000 | .000 |
| GR | .900 | 12.000 | 5.800 | 77.000 | 10.600 | 95.000 | 13.000 | 103.000 | 11.600 | 108.000 |
| GR | 12.400 | 142.000 | 16.300 | 154.000 | 10.500 | 182.000 | 8.200 | 209.000 | 7.000 | 233.000 |
| GR | 10.500 | 251.000 | 10.900 | 310.000 | 6.500 | 411.000 | 8.500 | 471.000 | 8.500 | 1000.000 |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 7.000 * * * * * DUNE EROSION ANALYSIS

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1747.942
EROSION AREA = 1747.964

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2520.000 | -24.000 | -1750.000 | -18.000 | -980.000 | -15.000 | -845.000 | -14.607 | -827.332 |
| -6.952 | -754.491 | -6.482 | -710.000 | -5.059 | -605.000 | -3.635 | -500.000 | -2.212 | -250.000 |
| -1.500 | -125.000 | -.788 | .000 | -.361 | 12.000 | 1.964 | 77.000 | 4.242 | 95.000 |
| 5.380 | 103.000 | 4.716 | 108.000 | 5.096 | 142.000 | 6.946 | 154.000 | 4.194 | 182.000 |
| 3.103 | 209.000 | 2.533 | 233.000 | 4.194 | 251.000 | 4.384 | 310.000 | 4.382 | 310.116 |
| 7.859 | 315.681 | 10.470 | 319.800 | 10.236 | 325.233 | 9.834 | 334.459 | 9.446 | 343.368 |
| 9.071 | 351.973 | 8.710 | 360.281 | 8.360 | 368.306 | 8.022 | 376.055 | 7.696 | 383.539 |
| 7.381 | 390.767 | 7.077 | 397.748 | 6.784 | 404.489 | 6.500 | 411.000 | 6.737 | 418.107 |
| 8.500 | 471.000 | 8.500 | 1000.000 | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 7.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | .900 | 12.000 | 5.800 | 77.000 | 10.600 | 95.000 | 13.000 | 103.000 |
| 11.600 | 108.000 | 12.400 | 142.000 | 16.300 | 154.000 | 10.500 | 182.000 | 8.200 | 209.000 |
| 7.000 | 233.000 | 10.500 | 251.000 | 10.900 | 310.000 | 10.895 | 310.116 | 10.653 | 315.681 |
| 10.470 | 319.860 | 10.236 | 325.233 | 9.834 | 334.459 | 9.446 | 343.368 | 9.071 | 351.973 |
| 8.710 | 360.281 | 8.360 | 368.306 | 8.022 | 376.055 | 7.696 | 383.539 | 7.381 | 390.767 |
| 7.077 | 397.748 | 6.784 | 404.489 | 6.500 | 411.000 | 6.737 | 418.107 | 8.500 | 471.000 |
| 8.500 | 1000.000 | | | | | | | | |

AFTER STORM TRANSECT:

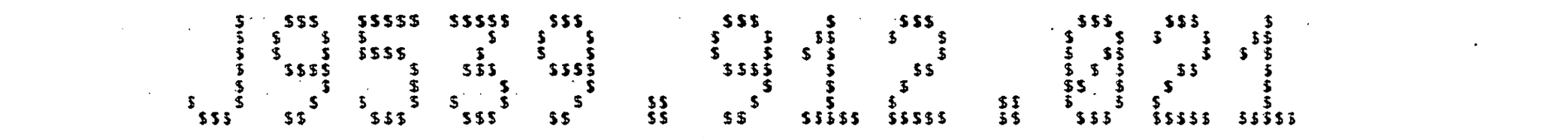
| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.361 | 12.000 | 1.964 | 77.000 | 4.242 | 95.000 | 5.380 | 103.000 |
| 4.716 | 108.000 | 5.096 | 142.000 | 6.946 | 154.000 | 4.194 | 182.000 | 3.103 | 209.000 |
| 2.533 | 233.000 | 4.194 | 251.000 | 4.384 | 310.000 | 4.382 | 310.116 | 7.859 | 315.681 |
| 10.470 | 319.860 | 10.236 | 325.233 | 9.834 | 334.459 | 9.446 | 343.368 | 9.071 | 351.973 |
| 8.710 | 360.281 | 8.360 | 368.306 | 8.022 | 376.055 | 7.696 | 383.539 | 7.381 | 390.767 |
| 7.077 | 397.748 | 6.784 | 404.489 | 6.500 | 411.000 | 6.737 | 418.107 | 8.500 | 471.000 |
| 8.500 | 1000.000 | | | | | | | | |

* * * * * TRANSECT NUMBER 7.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 7.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 12.0 | -.4 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 22.1 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 77.0 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 95.0 | 4.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 103.0 | 5.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 108.0 | 4.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 142.0 | 5.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 154.0 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 182.0 | 4.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 209.0 | 3.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 233.0 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 251.0 | 4.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 310.0 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 310.1 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 319.6 | 10.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| AS | 323.8 | 10.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 325.2 | 10.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 334.5 | 9.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 343.4 | 9.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 352.0 | 9.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 360.3 | 8.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 368.3 | 8.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 376.1 | 8.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 383.5 | 7.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 390.8 | 7.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 397.7 | 7.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 404.5 | 6.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 411.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 418.1 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 471.0 | 8.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 8.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |



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ENQUEUED: 13-AUG-86 13:28:18
PRINTING: 13-AUG-86 13:28:21

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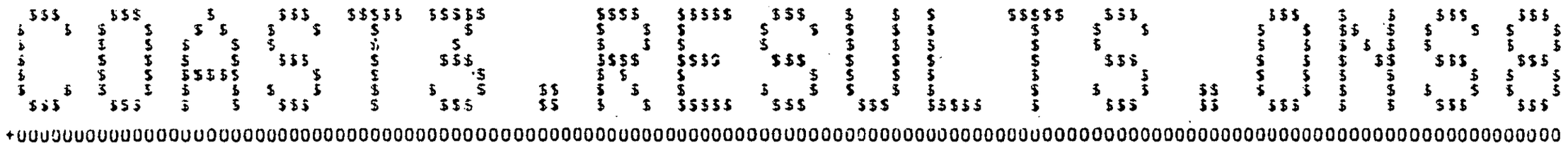


Greenhorne & O'Mara Inc-MV8000/A

AOS/VS REV.06.04
AOS/VS XLPT REV 05.00

DONE EROSION
TRANSECT &
CORRECTED LAT.

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/36 - TRANSECT 8

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 8.000 | 29.000 | -100.000 | 10.300 | -1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -50.000 | -1950.000 | -24.000 | -1500.000 | -18.000 | -1050.000 | -15.000 | -950.000 | -12.000 | -850.000 |
| GR | -9.000 | -625.000 | -6.000 | -400.000 | -3.000 | -200.000 | -1.500 | -100.000 | .000 | .000 |
| GR | 1.100 | 10.000 | 6.300 | 60.000 | 9.800 | 86.000 | 12.400 | 105.000 | 14.800 | 110.000 |
| GR | 10.500 | 125.000 | 11.500 | 139.000 | 20.800 | 151.000 | 19.700 | 167.000 | 13.500 | 178.000 |
| GR | 7.100 | 204.000 | 7.000 | 208.000 | 6.700 | 307.000 | 5.700 | 327.000 | 4.300 | 338.000 |
| GR | 6.500 | 351.000 | 6.900 | 373.000 | 6.900 | 950.000 | 6.900 | 1000.000 | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 8.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 2521.005
EROSION AREA = 2520.869

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -1950.000 | -24.000 | -1500.000 | -18.000 | -1050.000 | -15.400 | -963.340 | -15.000 | -950.000 |
| -6.952 | -882.956 | -6.482 | -850.000 | -5.059 | -625.000 | -3.635 | -400.000 | -2.212 | -200.000 |
| -1.500 | -100.000 | -.788 | .000 | -.266 | 10.000 | 2.201 | 60.000 | 3.862 | 86.000 |
| 5.096 | 105.000 | 6.255 | 110.000 | 4.194 | 125.000 | 4.669 | 139.000 | 9.082 | 151.000 |
| 8.560 | 167.000 | 5.618 | 178.000 | 2.581 | 204.000 | 2.533 | 208.000 | 2.391 | 307.000 |
| 1.916 | 327.000 | 1.252 | 338.000 | 2.296 | 351.000 | 2.486 | 373.000 | 2.486 | 496.686 |
| 3.314 | 498.012 | 6.900 | 503.750 | 6.900 | 505.074 | 6.900 | 512.136 | 6.900 | 519.199 |
| 6.900 | 526.261 | 6.900 | 533.323 | 6.900 | 540.386 | 6.900 | 547.448 | 6.900 | 554.510 |
| 6.900 | 561.573 | 6.900 | 568.635 | 6.900 | 575.697 | 6.900 | 582.760 | 6.900 | 589.822 |
| 6.900 | 596.884 | 6.900 | 603.947 | 6.900 | 611.009 | 6.900 | 618.071 | 6.900 | 625.134 |
| 6.900 | 632.196 | 6.900 | 639.258 | 6.900 | 646.320 | 6.900 | 653.383 | 6.900 | 660.445 |
| 6.900 | 667.507 | 6.900 | 674.570 | 6.900 | 681.632 | 6.900 | 688.694 | 6.900 | 695.757 |
| 6.900 | 702.819 | 6.900 | 709.881 | 6.900 | 716.944 | 6.900 | 724.006 | 6.900 | 731.068 |
| 6.900 | 738.131 | 6.900 | 745.193 | 6.900 | 752.255 | 6.900 | 759.317 | 6.900 | 766.380 |
| 6.900 | 773.442 | 6.900 | 780.504 | 6.900 | 787.567 | 6.900 | 794.629 | 6.900 | 801.691 |
| 6.900 | 808.754 | 6.900 | 815.816 | 6.900 | 822.878 | 6.900 | 829.941 | 6.900 | 837.003 |
| 6.900 | 844.065 | 6.900 | 851.128 | 6.900 | 858.190 | 6.900 | 865.252 | 6.900 | 872.315 |
| 6.900 | 879.377 | 6.900 | 886.439 | 6.900 | 893.501 | 6.900 | 900.564 | 6.900 | 907.626 |
| 6.900 | 914.683 | 6.900 | 921.751 | 6.900 | 928.813 | 6.900 | 935.875 | 6.900 | 942.938 |
| 6.900 | 950.000 | 6.900 | 957.064 | 6.900 | 1000.000 | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 8.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | 1.100 | 10.000 | 6.300 | 60.000 | 9.800 | 86.000 | 12.400 | 105.000 |
| 14.800 | 110.000 | 10.500 | 125.000 | 11.500 | 139.000 | 20.800 | 151.000 | 19.700 | 167.000 |
| 13.500 | 178.000 | 7.100 | 204.000 | 7.000 | 208.000 | 6.700 | 307.000 | 5.700 | 327.000 |
| 4.300 | 338.000 | 6.500 | 351.000 | 6.900 | 373.000 | 6.900 | 496.686 | 6.900 | 498.012 |
| 6.900 | 503.750 | 6.900 | 505.074 | 6.900 | 512.136 | 6.900 | 519.199 | 6.900 | 526.261 |
| 6.900 | 533.523 | 6.900 | 540.586 | 6.900 | 547.448 | 6.900 | 554.510 | 6.900 | 561.573 |
| 6.900 | 568.635 | 6.900 | 575.697 | 6.900 | 582.760 | 6.900 | 589.822 | 6.900 | 596.884 |
| 6.900 | 603.947 | 6.900 | 611.009 | 6.900 | 618.071 | 6.900 | 625.134 | 6.900 | 632.196 |
| 6.900 | 639.258 | 6.900 | 646.320 | 6.900 | 653.383 | 6.900 | 660.445 | 6.900 | 667.507 |
| 6.900 | 674.570 | 6.900 | 681.632 | 6.900 | 688.694 | 6.900 | 695.757 | 6.900 | 702.819 |
| 6.900 | 709.881 | 6.900 | 716.944 | 6.900 | 724.006 | 6.900 | 731.063 | 6.900 | 738.131 |
| 6.900 | 745.193 | 6.900 | 752.255 | 6.900 | 759.317 | 6.900 | 766.380 | 6.900 | 773.442 |
| 6.900 | 780.504 | 6.900 | 787.567 | 6.900 | 794.629 | 6.900 | 801.691 | 6.900 | 808.754 |
| 6.900 | 815.816 | 6.900 | 822.878 | 6.900 | 829.941 | 6.900 | 837.003 | 6.900 | 844.065 |
| 6.900 | 851.128 | 6.900 | 858.190 | 6.900 | 865.252 | 6.900 | 872.315 | 6.900 | 879.377 |
| 6.900 | 886.439 | 6.900 | 893.501 | 6.900 | 900.564 | 6.900 | 907.626 | 6.900 | 914.688 |
| 6.900 | 921.751 | 6.900 | 928.813 | 6.900 | 935.875 | 6.900 | 942.938 | 6.900 | 950.000 |
| 6.900 | 957.064 | 6.900 | 1000.000 | | | | | | |

AFTER STORM TRANSECT:

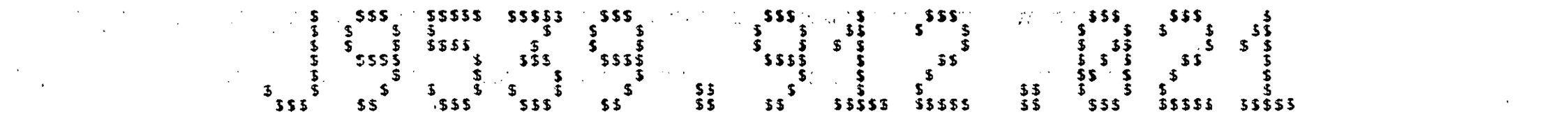
| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.266 | 10.000 | 2.201 | 60.000 | 3.862 | 86.000 | 5.096 | 105.000 |
| 6.235 | 110.000 | 4.194 | 125.000 | 4.669 | 139.000 | 9.082 | 151.000 | 8.560 | 167.000 |
| 5.612 | 178.000 | 2.581 | 204.000 | 2.533 | 208.000 | 2.391 | 307.000 | 1.916 | 327.000 |
| 1.252 | 338.000 | 2.296 | 351.000 | 2.486 | 373.000 | 2.486 | 496.686 | 3.314 | 498.012 |
| 6.900 | 503.750 | 6.900 | 505.074 | 6.900 | 512.136 | 6.900 | 519.199 | 6.900 | 526.261 |
| 6.900 | 533.523 | 6.900 | 540.586 | 6.900 | 547.448 | 6.900 | 554.510 | 6.900 | 561.573 |
| 6.900 | 568.635 | 6.900 | 575.697 | 6.900 | 582.760 | 6.900 | 589.822 | 6.900 | 596.884 |
| 6.900 | 603.947 | 6.900 | 611.009 | 6.900 | 618.071 | 6.900 | 625.134 | 6.900 | 632.196 |
| 6.900 | 639.258 | 6.900 | 646.320 | 6.900 | 653.383 | 6.900 | 660.445 | 6.900 | 667.507 |
| 6.900 | 674.570 | 6.900 | 681.632 | 6.900 | 688.694 | 6.900 | 695.757 | 6.900 | 702.819 |
| 6.900 | 709.881 | 6.900 | 716.944 | 6.900 | 724.006 | 6.900 | 731.068 | 6.900 | 738.131 |
| 6.900 | 745.193 | 6.900 | 752.255 | 6.900 | 759.317 | 6.900 | 766.380 | 6.900 | 773.442 |
| 6.900 | 780.504 | 6.900 | 787.567 | 6.900 | 794.629 | 6.900 | 801.691 | 6.900 | 808.754 |
| 6.900 | 815.816 | 6.900 | 822.878 | 6.900 | 829.941 | 6.900 | 837.003 | 6.900 | 844.065 |
| 6.900 | 851.128 | 6.900 | 858.190 | 6.900 | 865.252 | 6.900 | 872.315 | 6.900 | 879.377 |
| 6.900 | 886.439 | 6.900 | 893.501 | 6.900 | 900.564 | 6.900 | 907.626 | 6.900 | 914.688 |
| 6.900 | 921.751 | 6.900 | 928.813 | 6.900 | 935.875 | 6.900 | 942.938 | 6.900 | 950.000 |
| 6.900 | 957.064 | 6.900 | 1000.000 | | | | | | |

* * * * * TRANSECT NUMBER 8.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 8.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 10.0 | -.3 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 15.4 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 60.0 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 86.0 | 3.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 105.0 | 5.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 110.0 | 6.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 125.0 | 4.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 139.0 | 4.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 151.0 | 9.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 167.0 | 8.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 178.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 204.0 | 2.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 208.0 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 307.0 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 327.0 | 1.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 338.0 | 1.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 351.0 | 2.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 373.0 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 496.7 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 498.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 503.7 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 505.1 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 512.1 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 519.2 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 526.3 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 533.5 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 540.4 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 547.4 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 554.5 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 561.6 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 568.6 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 575.7 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 582.3 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 589.8 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 596.9 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 603.9 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 611.0 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 618.1 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 625.1 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 632.2 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 639.3 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 646.3 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 653.4 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 660.4 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 667.5 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |



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PAGES=6

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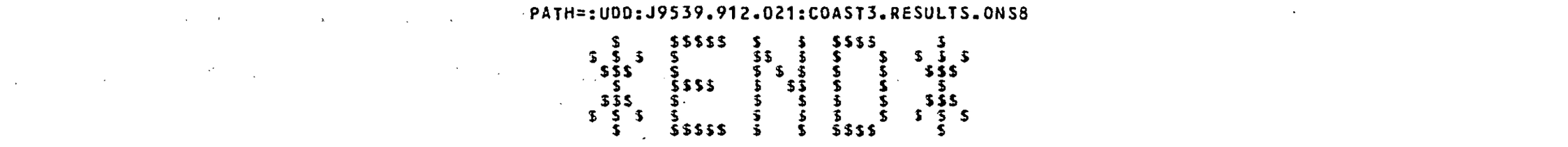


Greenhorne & O'Mara Inc-MV8000/A

AOS/VS REV 06.04
AOS/VS XLPT REV 05.00

********** LISTING OF INPUT DATA **********

```
T1   ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 9
T2   BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

     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      9.000    23.000  -135.000     10.300      1.000    34.450   1.000    1.000     .000      .000

     RADIUS TO  SEDIMENT                       TRANS     END OF    10-YEAR   WHAFIS    NGVD-
     MAX WIND   DIAMETER     F-G,E      F-M    SPEED     EROSION   STILL EL  OPTION    MSL
X2     28.750       .400      .800      .900   11.500    674.000      6.300    1.000    -.500      .000

     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR     -30.000 -2300.000   -24.000 -1725.000   -18.000 -1150.000   -15.000 -1020.000   -12.000  -890.000
GR      -9.000  -715.000    -6.000  -540.000    -3.000  -270.000    -1.500  -135.000     .000      .000
GR        .200     1.000     6.400    81.000    10.700   104.000    14.600   108.000   20.000   126.000
GR      15.500   136.000    10.000   147.000    10.100   155.000     8.200   223.000    5.900   395.000
GR       5.900   453.000     5.900   950.000     5.900  1000.000
```

59 470

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 9.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 2327.946
EROSION AREA = 2328.107

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2300.000 | -24.000 | -1725.000 | -18.000 | -1150.000 | -15.000 | -1020.000 | -14.687 | -1006.443 |
| -6.952 | -932.843 | -6.482 | -890.000 | -5.059 | -715.000 | -3.635 | -540.000 | -2.212 | -270.000 |
| -1.500 | -135.000 | -.788 | .000 | -.693 | 1.000 | 2.249 | 81.000 | 4.289 | 104.000 |
| 6.140 | 108.000 | 8.702 | 126.000 | 5.618 | 136.000 | 3.957 | 147.000 | 4.004 | 155.000 |
| 3.103 | 223.000 | 2.011 | 395.000 | 2.011 | 453.000 | 2.011 | 486.686 | 3.835 | 489.604 |
| 5.900 | 492.910 | 5.900 | 495.826 | 5.900 | 502.047 | 5.900 | 508.269 | 5.900 | 514.491 |
| 5.900 | 520.712 | 5.900 | 526.934 | 5.900 | 533.155 | 5.900 | 539.377 | 5.900 | 545.598 |
| 5.900 | 551.820 | 5.900 | 558.042 | 5.900 | 564.263 | 5.900 | 570.485 | 5.900 | 576.706 |
| 5.900 | 582.928 | 5.900 | 589.149 | 5.900 | 595.371 | 5.900 | 601.592 | 5.900 | 607.814 |
| 5.900 | 614.036 | 5.900 | 620.257 | 5.900 | 626.479 | 5.900 | 632.700 | 5.900 | 638.922 |
| 5.900 | 645.143 | 5.900 | 651.365 | 5.900 | 657.587 | 5.900 | 663.808 | 5.900 | 670.030 |
| 5.900 | 676.251 | 5.900 | 682.473 | 5.900 | 688.694 | 5.900 | 694.916 | 5.900 | 701.137 |
| 5.900 | 707.359 | 5.900 | 713.581 | 5.900 | 719.802 | 5.900 | 726.024 | 5.900 | 732.245 |
| 5.900 | 738.467 | 5.900 | 744.688 | 5.900 | 750.910 | 5.900 | 757.132 | 5.900 | 763.353 |
| 5.900 | 769.575 | 5.900 | 775.796 | 5.900 | 782.018 | 5.900 | 788.239 | 5.900 | 794.461 |
| 5.900 | 800.682 | 5.900 | 806.904 | 5.900 | 813.126 | 5.900 | 819.347 | 5.900 | 825.569 |
| 5.900 | 831.790 | 5.900 | 838.012 | 5.900 | 844.233 | 5.900 | 850.455 | 5.900 | 856.677 |
| 5.900 | 862.898 | 5.900 | 869.120 | 5.900 | 875.341 | 5.900 | 881.563 | 5.900 | 887.784 |
| 5.900 | 894.006 | 5.900 | 900.227 | 5.900 | 906.449 | 5.900 | 912.671 | 5.900 | 918.892 |
| 5.900 | 925.114 | 5.900 | 931.335 | 5.900 | 937.557 | 5.900 | 943.778 | 5.900 | 950.000 |
| 5.900 | 956.223 | 5.900 | 1000.000 | | | | | | |

493'

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 9.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | .200 | 1.000 | 6.400 | 81.000 | 10.700 | 104.000 | 14.600 | 108.000 |
| 20.000 | 126.000 | 13.500 | 136.000 | 10.000 | 147.000 | 10.100 | 155.000 | 8.200 | 223.000 |
| 5.900 | 395.000 | 5.900 | 453.000 | 5.900 | 486.686 | 5.900 | 489.604 | 5.900 | 492.910 |
| 5.900 | 495.826 | 5.900 | 502.047 | 5.900 | 508.269 | 5.900 | 514.491 | 5.900 | 520.712 |
| 5.900 | 526.934 | 5.900 | 533.155 | 5.900 | 539.377 | 5.900 | 545.598 | 5.900 | 551.820 |
| 5.900 | 558.042 | 5.900 | 564.263 | 5.900 | 570.485 | 5.900 | 576.706 | 5.900 | 582.928 |
| 5.900 | 589.149 | 5.900 | 595.371 | 5.900 | 601.592 | 5.900 | 607.814 | 5.900 | 614.036 |
| 5.900 | 620.257 | 5.900 | 626.479 | 5.900 | 632.700 | 5.900 | 638.922 | 5.900 | 645.143 |
| 5.900 | 651.365 | 5.900 | 657.587 | 5.900 | 663.808 | 5.900 | 670.030 | 5.900 | 676.251 |
| 5.900 | 682.473 | 5.900 | 688.694 | 5.900 | 694.916 | 5.900 | 701.137 | 5.900 | 707.359 |
| 5.900 | 713.581 | 5.900 | 719.802 | 5.900 | 726.024 | 5.900 | 732.245 | 5.900 | 738.467 |
| 5.900 | 744.688 | 5.900 | 750.910 | 5.900 | 757.132 | 5.900 | 763.353 | 5.900 | 769.575 |
| 5.900 | 775.796 | 5.900 | 782.018 | 5.900 | 788.239 | 5.900 | 794.461 | 5.900 | 800.682 |
| 5.900 | 806.904 | 5.900 | 813.126 | 5.900 | 819.347 | 5.900 | 825.569 | 5.900 | 831.790 |
| 5.900 | 838.012 | 5.900 | 844.233 | 5.900 | 850.455 | 5.900 | 856.677 | 5.900 | 862.898 |
| 5.900 | 869.120 | 5.900 | 875.341 | 5.900 | 881.563 | 5.900 | 887.784 | 5.900 | 894.006 |
| 5.900 | 900.227 | 5.900 | 906.449 | 5.900 | 912.671 | 5.900 | 918.892 | 5.900 | 925.114 |
| 5.900 | 931.335 | 5.900 | 937.557 | 5.900 | 943.778 | 5.900 | 950.000 | 5.900 | 956.223 |
| 5.900 | 1000.000 | | | | | | | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.693 | 1.000 | 2.249 | 81.000 | 4.289 | 104.000 | 6.140 | 108.000 |
| 8.702 | 126.000 | 5.618 | 136.000 | 3.957 | 147.000 | 4.004 | 155.000 | 3.103 | 223.000 |
| 2.011 | 395.000 | 2.011 | 453.000 | 2.011 | 486.686 | 3.835 | 489.604 | 5.900 | 492.910 |
| 5.900 | 495.826 | 5.900 | 502.047 | 5.900 | 508.269 | 5.900 | 514.491 | 5.900 | 520.712 |
| 5.900 | 526.934 | 5.900 | 533.155 | 5.900 | 539.377 | 5.900 | 545.598 | 5.900 | 551.820 |
| 5.900 | 558.042 | 5.900 | 564.263 | 5.900 | 570.485 | 5.900 | 576.706 | 5.900 | 582.928 |
| 5.900 | 589.149 | 5.900 | 595.371 | 5.900 | 601.592 | 5.900 | 607.814 | 5.900 | 614.036 |
| 5.900 | 620.257 | 5.900 | 626.479 | 5.900 | 632.700 | 5.900 | 638.922 | 5.900 | 645.143 |
| 5.900 | 651.365 | 5.900 | 657.587 | 5.900 | 663.808 | 5.900 | 670.030 | 5.900 | 676.251 |
| 5.900 | 682.473 | 5.900 | 688.694 | 5.900 | 694.916 | 5.900 | 701.137 | 5.900 | 707.359 |
| 5.900 | 713.581 | 5.900 | 719.802 | 5.900 | 726.024 | 5.900 | 732.245 | 5.900 | 738.467 |
| 5.900 | 744.688 | 5.900 | 750.910 | 5.900 | 757.132 | 5.900 | 763.353 | 5.900 | 769.575 |
| 5.900 | 775.796 | 5.900 | 782.018 | 5.900 | 788.239 | 5.900 | 794.461 | 5.900 | 800.682 |
| 5.900 | 806.904 | 5.900 | 813.126 | 5.900 | 819.347 | 5.900 | 825.569 | 5.900 | 831.790 |
| 5.900 | 838.012 | 5.900 | 844.233 | 5.900 | 850.455 | 5.900 | 856.677 | 5.900 | 862.898 |
| 5.900 | 869.120 | 5.900 | 875.341 | 5.900 | 881.563 | 5.900 | 887.784 | 5.900 | 894.006 |
| 5.900 | 900.227 | 5.900 | 906.449 | 5.900 | 912.671 | 5.900 | 918.892 | 5.900 | 925.114 |
| 5.900 | 931.335 | 5.900 | 937.557 | 5.900 | 943.778 | 5.900 | 950.000 | 5.900 | 956.223 |
| 5.900 | 1000.000 | | | | | | | | |

* * * * * TRANSECT NUMBER 9.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 9.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 1.0 | -.7 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 19.9 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 81.0 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 104.0 | 4.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 108.0 | 5.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 126.0 | 8.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 136.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 147.0 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 155.0 | 4.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 223.0 | 3.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 395.0 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 453.0 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 486.7 | 2.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 489.6 | 3.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 492.9 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 495.8 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 502.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 508.3 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 514.5 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 520.7 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 526.9 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 533.2 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 539.4 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 545.6 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 551.8 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 558.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 564.3 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 570.5 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 576.7 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 582.9 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 589.1 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 595.4 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 601.6 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 607.8 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 614.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 620.3 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 626.5 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 632.7 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 638.9 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 645.1 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 651.4 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 657.6 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 663.8 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 670.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 5.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********************  LISTING OF INPUT DATA  ********************

T1  ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 10

T2  BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 10.000 | 24.000 | -100.000 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -1800.000 | -24.000 | -1350.000 | -18.000 | -900.000 | -15.000 | -750.000 | -12.000 | -600.000 |
| GR | -9.000 | -500.000 | -6.000 | -400.000 | -3.000 | -200.000 | -1.500 | -100.000 | .000 | .000 |
| GR | .300 | 9.000 | 6.000 | 75.000 | 11.000 | 92.000 | 15.400 | 102.000 | 21.600 | 115.000 |
| GR | 22.000 | 141.000 | 17.700 | 154.000 | 11.500 | 179.000 | 9.000 | 199.000 | 8.700 | 216.000 |
| GR | 7.500 | 263.000 | 5.100 | 462.000 | 5.600 | 504.000 | 5.600 | 1000.000 | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 10.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107

PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1642.674
EROSION AREA = 1642.337

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -1800.000 | -24.000 | -1350.000 | -18.000 | -900.000 | -15.000 | -750.000 | -14.407 | -720.373 |
| -6.952 | -649.435 | -6.482 | -600.000 | -5.059 | -500.000 | -3.635 | -400.000 | -2.212 | -200.000 |
| -1.500 | -100.000 | -.788 | .000 | -.646 | 9.000 | 2.059 | 73.000 | 4.431 | 92.000 |
| 6.519 | 102.000 | 9.461 | 115.000 | 9.936 | 141.000 | 7.611 | 154.000 | 4.669 | 179.000 |
| 5.482 | 199.000 | 3.340 | 216.000 | 2.841 | 257.199 | 6.465 | 263.000 | 7.480 | 264.624 |
| 7.410 | 270.425 | 5.100 | 462.000 | 5.600 | 504.000 | 5.600 | 1000.000 | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 10.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | .300 | 9.000 | 6.000 | 73.000 | 11.000 | 92.000 | 15.400 | 102.000 |
| 21.600 | 115.000 | 22.600 | 141.000 | 17.700 | 154.000 | 11.500 | 179.000 | 9.000 | 199.000 |
| 8.700 | 216.000 | 7.648 | 257.199 | 7.500 | 263.000 | 7.480 | 264.624 | 7.410 | 270.425 |
| 5.100 | 462.000 | 5.600 | 504.000 | 5.600 | 1000.000 | | | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.646 | 9.000 | 2.059 | 73.000 | 4.431 | 92.000 | 6.519 | 102.000 |
| 9.461 | 115.000 | 9.936 | 141.000 | 7.611 | 154.000 | 4.669 | 179.000 | 3.482 | 199.000 |
| 3.340 | 216.000 | 2.841 | 257.199 | 6.465 | 263.000 | 7.480 | 264.624 | 7.410 | 270.425 |
| 5.100 | 462.000 | 5.600 | 504.000 | 5.600 | 1000.000 | | | | |

* * * * * TRANSECT NUMBER 10.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 10.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 9.0 | -.6 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 24.3 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 73.0 | 2.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 92.0 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 102.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 115.0 | 9.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 141.0 | 9.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 154.0 | 7.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 179.0 | 4.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 199.0 | 3.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 216.0 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 257.2 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 263.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 264.6 | 7.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 270.4 | 7.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 462.0 | 5.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 504.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 11

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 11.000 | 25.000 | -122.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -2000.000 | -24.000 | -1520.000 | -18.000 | -1040.000 | -15.000 | -910.000 | -12.000 | -780.000 |
| GR | -9.000 | -630.000 | -6.000 | -490.000 | -3.000 | -245.000 | -1.500 | -122.500 | .000 | .000 |
| GR | .200 | 12.000 | 6.800 | 112.000 | 11.300 | 141.000 | 12.000 | 147.000 | 15.500 | 165.000 |
| GR | 14.500 | 177.000 | 8.900 | 195.000 | 8.500 | 212.000 | 8.800 | 264.000 | 8.900 | 306.000 |
| GR | 8.800 | 351.000 | 8.500 | 383.000 | 7.700 | 458.000 | 7.200 | 571.000 | 7.200 | 1000.000 |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 11.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 2055.021
EROSION AREA = 2054.653

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2000.000 | -24.000 | -1520.000 | -18.000 | -1040.000 | -15.000 | -910.000 | -14.687 | -896.443 |
| -6.952 | -822.843 | -6.482 | -780.000 | -5.059 | -630.000 | -3.635 | -490.000 | -2.212 | -245.000 |
| -1.500 | -122.500 | -.788 | .000 | -.693 | 12.000 | 2.438 | 112.000 | 4.574 | 141.000 |
| 4.906 | 147.000 | 6.567 | 165.000 | 6.092 | 177.000 | 3.435 | 195.000 | 3.245 | 212.000 |
| 3.387 | 264.000 | 3.435 | 306.000 | 3.387 | 351.000 | 3.245 | 323.000 | 3.123 | 407.132 |
| 5.494 | 410.927 | 8.157 | 415.188 | 8.117 | 418.948 | 8.032 | 426.897 | 7.948 | 434.776 |
| 7.864 | 442.586 | 7.782 | 450.327 | 7.700 | 458.000 | 7.666 | 465.682 | 7.200 | 571.000 |
| 7.200 | 1000.000 | | | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 11.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | .200 | 12.000 | 6.800 | 112.000 | 11.300 | 141.000 | 12.000 | 147.000 |
| 15.500 | 165.000 | 14.500 | 177.000 | 8.900 | 195.000 | 8.500 | 212.000 | 8.800 | 264.000 |
| 8.900 | 306.000 | 8.800 | 351.000 | 8.500 | 383.000 | 8.243 | 407.132 | 8.202 | 410.927 |
| 8.157 | 415.188 | 8.117 | 418.948 | 8.032 | 426.897 | 7.948 | 434.776 | 7.864 | 442.586 |
| 7.782 | 450.327 | 7.700 | 458.000 | 7.666 | 465.682 | 7.200 | 571.000 | 7.200 | 1000.000 |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.693 | 12.000 | 2.438 | 112.000 | 4.574 | 141.000 | 4.906 | 147.000 |
| 6.567 | 165.000 | 6.092 | 177.000 | 3.435 | 195.000 | 3.245 | 212.000 | 3.387 | 264.000 |
| 5.435 | 306.000 | 3.387 | 351.000 | 3.245 | 383.000 | 3.123 | 407.132 | 5.494 | 410.927 |
| 8.157 | 415.188 | 8.117 | 418.948 | 8.032 | 426.897 | 7.948 | 434.776 | 7.864 | 442.586 |
| 7.782 | 450.327 | 7.700 | 458.000 | 7.666 | 465.682 | 7.200 | 571.000 | 7.200 | 1000.000 |

* * * * * TRANSECT NUMBER 11.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 11.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 12.0 | -.7 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 34.1 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 112.0 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 141.0 | 4.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 147.0 | 4.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 165.0 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 177.0 | 6.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 195.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 212.0 | 3.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 264.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 306.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 351.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 383.0 | 3.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 407.1 | 3.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 410.9 | 5.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 415.2 | 8.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 418.9 | 8.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 426.9 | 8.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 434.8 | 7.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 442.6 | 7.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 450.3 | 7.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 458.0 | 7.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 465.7 | 7.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 571.0 | 7.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 7.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 12

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 12.000 | 26.000 | -125.000 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -2000.000 | -24.000 | -1500.000 | -18.000 | -1000.000 | -15.000 | -850.000 | -12.000 | -700.000 |
| GR | -9.000 | -600.000 | -6.000 | -500.000 | -3.000 | -250.000 | -1.500 | -125.000 | -.800 | -62.500 |
| GR | .000 | .000 | .100 | 5.000 | 7.300 | 117.000 | 10.900 | 149.000 | 13.600 | 156.000 |
| GR | 20.100 | 165.000 | 13.900 | 191.000 | 10.700 | 214.000 | 9.600 | 243.000 | 7.000 | 281.000 |
| GR | 6.400 | 311.000 | 6.500 | 341.000 | 5.700 | 527.000 | 6.000 | 581.000 | 6.100 | 621.000 |
| GR | 6.400 | 674.000 | | | | | | | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 12.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1731.350
EROSION AREA = 1731.254

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2000.000 | -24.000 | -1500.000 | -18.000 | -1000.000 | -15.000 | -850.000 | -14.407 | -820.373 |
| -6.952 | -749.435 | -6.482 | -700.000 | -5.059 | -600.000 | -3.635 | -500.000 | -2.212 | -250.000 |
| -1.500 | -125.000 | -1.168 | -62.500 | -.788 | .000 | -.741 | 5.000 | 2.676 | 117.000 |
| 4.384 | 149.000 | 5.665 | 156.000 | 8.749 | 165.000 | 5.807 | 191.000 | 4.289 | 214.000 |
| 3.767 | 243.000 | 2.533 | 281.000 | 2.249 | 311.000 | 2.295 | 340.157 | 2.522 | 341.000 |
| 6.475 | 346.846 | 6.471 | 347.682 | 5.700 | 527.000 | 6.000 | 581.000 | 6.100 | 621.000 |
| 6.400 | 674.000 | | | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 12.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | .100 | 5.000 | 7.300 | 117.000 | 10.900 | 149.000 | 13.600 | 156.000 |
| 20.100 | 165.000 | 13.900 | 191.000 | 10.700 | 214.000 | 9.600 | 243.000 | 7.000 | 281.000 |
| 6.400 | 311.000 | 6.497 | 340.157 | 6.500 | 341.000 | 6.475 | 346.846 | 6.471 | 347.682 |
| 5.700 | 527.000 | 6.000 | 581.000 | 6.100 | 621.000 | 6.400 | 674.000 | | |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.741 | 5.000 | 2.676 | 117.000 | 4.384 | 149.000 | 5.665 | 156.000 |
| 8.749 | 165.000 | 5.807 | 191.000 | 4.289 | 214.000 | 3.767 | 243.000 | 2.533 | 281.000 |
| 2.249 | 311.000 | 2.295 | 340.157 | 2.822 | 341.000 | 6.475 | 346.846 | 6.471 | 347.682 |
| 5.700 | 527.000 | 6.000 | 581.000 | 6.100 | 621.000 | 6.400 | 674.000 | | |

* * * * * TRANSECT NUMBER 12.000 * * * * * WAVE HEIGHT INPUT GENERATOR

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 12.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 5.0 | -.7 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 29.3 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 117.0 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 149.0 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 156.0 | 5.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 165.0 | 8.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 191.0 | 5.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 214.0 | 4.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 243.0 | 3.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 281.0 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 311.0 | 2.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 340.2 | 2.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 341.0 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 346.8 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 347.7 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 527.0 | 5.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 581.0 | 6.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 621.0 | 6.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 6.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

```
T1   ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 13
T2   BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

     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      13.000    26.000  -187.500    10.300      1.000    34.450     1.000      1.000      .000      .000

     RADIUS TO  SEDIMENT                        TRANS     END OF    10-YEAR     WHAFIS     NGVD-
     MAX WIND   DIAMETER      F-G,E      F-M    SPEED     EROSION   STILL EL    OPTION     MSL
X2      28.750      .400       .800      .900   11.500    674.000      6.300      1.000     -.500      .000

     ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION   ELEVATION STATION
GR      -30.000 -2050.000   -24.000 -1635.000   -18.000 -1220.000   -15.000 -1070.000   -12.000  -920.000
GR       -9.000  -835.000    -6.000  -750.000    -3.000  -375.000    -1.500  -187.500      .000      .000
GR         .500    11.000     7.100   121.000     9.800   140.000    13.500   171.000    10.400   195.000
GR        8.000   227.000     7.100   270.000     7.900   288.000     6.900   320.000     6.800   360.000
GR        6.500   466.000     6.900   509.000     6.000   592.000     4.900   670.000     4.600   713.000
GR        4.600  1000.000
```

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 13.000 * * * * *_DUNE EROSION ANALYSIS_

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107
PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 1834.805
EROSION AREA = 1834.591

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2050.000 | -24.000 | -1635.000 | -18.000 | -1220.000 | -15.000 | -1070.000 | -14.407 | -1040.373 |
| -6.952 | -969.435 | -6.482 | -920.000 | -5.059 | -835.000 | -3.635 | -750.000 | -2.212 | -375.000 |
| -1.500 | -187.500 | -.788 | .000 | -.551 | 11.000 | 2.581 | 121.000 | 3.862 | 140.000 |
| 5.618 | 171.000 | 4.147 | 195.000 | 3.008 | 227.000 | 2.581 | 270.000 | 2.960 | 288.000 |
| 2.486 | 320.000 | 2.438 | 360.000 | 2.392 | 394.939 | 4.406 | 398.162 | 6.682 | 401.805 |
| 6.673 | 405.019 | 6.653 | 411.859 | 6.634 | 418.683 | 6.615 | 425.491 | 6.595 | 432.282 |
| 6.576 | 439.058 | 6.557 | 445.817 | 6.538 | 452.561 | 6.519 | 459.288 | 6.500 | 466.000 |
| 6.564 | 472.829 | 6.900 | 509.000 | 6.000 | 592.000 | 4.900 | 670.000 | 4.600 | 713.000 |
| 4.600 | 1000.000 | | | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 13.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | .500 | 11.000 | 7.100 | 121.000 | 9.800 | 140.000 | 13.500 | 171.000 |
| 10.400 | 195.000 | 8.000 | 227.000 | 7.100 | 270.000 | 7.900 | 288.000 | 6.900 | 320.000 |
| 6.800 | 360.000 | 6.701 | 394.939 | 6.692 | 398.162 | 6.682 | 401.805 | 6.673 | 405.019 |
| 6.653 | 411.859 | 6.634 | 418.683 | 6.615 | 425.491 | 6.595 | 432.282 | 6.576 | 439.058 |
| 6.557 | 445.817 | 6.538 | 452.561 | 6.519 | 459.288 | 6.500 | 466.000 | 6.564 | 472.829 |
| 6.900 | 509.000 | 6.000 | 592.000 | 4.900 | 670.000 | 4.600 | 713.000 | 4.600 | 1000.000 |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.551 | 11.000 | 2.581 | 121.000 | 3.862 | 140.000 | 5.618 | 171.000 |
| 4.147 | 195.000 | 3.008 | 227.000 | 2.581 | 270.000 | 2.960 | 288.000 | 2.486 | 320.000 |
| 2.438 | 360.000 | 2.392 | 394.939 | 4.406 | 398.162 | 6.682 | 401.805 | 6.673 | 405.019 |
| 6.653 | 411.859 | 6.634 | 418.683 | 6.615 | 425.491 | 6.595 | 432.282 | 6.576 | 439.053 |
| 6.557 | 445.817 | 6.538 | 452.561 | 6.519 | 459.288 | 6.500 | 466.000 | 6.564 | 472.829 |
| 6.900 | 509.000 | 6.000 | 592.000 | 4.900 | 670.000 | 4.600 | 713.000 | 4.600 | 1000.000 |

* * * * * TRANSECT NUMBER 13.000 * * * * * WAVE HEIGHT INPUT GENERATOR

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 13.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 11.0 | -.6 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 50.4 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 121.0 | 2.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 140.0 | 3.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 171.0 | 5.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 195.0 | 4.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 227.0 | 3.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 270.0 | 2.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 288.0 | 3.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 320.0 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 360.0 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 394.9 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 398.2 | 4.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 401.8 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 405.0 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 411.9 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 418.7 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 425.5 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 432.3 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 439.1 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 445.8 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 452.6 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 459.3 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 466.0 | 6.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 472.8 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 509.0 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 592.0 | 6.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 670.0 | 4.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 574.0 | 4.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |

********** LISTING OF INPUT DATA **********

T1 ONSLOW COUNTY, NORTH CAROLINA - 6/86 - TRANSECT 14

T2 BEACH PROFILE - 5/86 COE SURVEY / OFFSHORE PROFILE - USGS QUAD

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

| | TRANSECT NO. | NO. OF GR POINTS | PBP STATION | STILL WATER EL | TIDE ELEVATION | LATITUDE | SMALLEST S-0.97 | TRACE | | |
|---|---|---|---|---|---|---|---|---|---|---|
| X1 | 14.000 | 24.000 | -157.500 | 10.300 | 1.000 | 34.450 | 1.000 | 1.000 | .000 | .000 |

| | RADIUS TO MAX WIND | SEDIMENT DIAMETER | F-G,E | F-M | TRANS SPEED | END OF EROSION | 10-YEAR STILL EL | WHAFIS OPTION | NGVD-MSL | |
|---|---|---|---|---|---|---|---|---|---|---|
| X2 | 28.750 | .400 | .800 | .900 | 11.500 | 674.000 | 6.300 | 1.000 | -.500 | .000 |

| | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|---|
| GR | -30.000 | -2190.000 | -24.000 | -1670.000 | -18.000 | -1150.000 | -15.000 | -1025.000 | -12.000 | -900.000 |
| GR | -9.000 | -765.000 | -6.000 | -630.000 | -3.000 | -315.000 | -1.500 | -157.500 | .000 | .000 |
| GR | .400 | 3.000 | 6.800 | 98.000 | 11.800 | 120.000 | 14.800 | 143.000 | 8.600 | 166.000 |
| GR | 8.900 | 200.000 | 7.800 | 271.000 | 7.600 | 333.000 | 7.300 | 390.000 | 6.600 | 483.000 |
| GR | 6.300 | 542.000 | 5.400 | 621.000 | 5.400 | 744.000 | 5.400 | 1000.000 | | |

LISTING OF OUTPUT

* * * * * TRANSECT NUMBER 14.000 * * * * * DUNE EROSION ANALYSIS

STILL WATER ELEVATION= 10.300 NGVD
SLOPE FLATENING FACTOR= 2.107

PIVOT ELEVATION= -2.000 MSL
CLOSURE DEPTH= -12.989 NGVD

DEPOSITION AREA = 2085.470
EROSION AREA = 2085.059

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -30.000 | -2190.000 | -24.000 | -1670.000 | -18.000 | -1150.000 | -15.000 | -1025.000 | -14.775 | -1015.633 |
| -6.952 | -941.196 | -6.482 | -900.000 | -5.059 | -765.000 | -3.635 | -630.000 | -2.212 | -315.000 |
| -1.500 | -157.500 | -.788 | .000 | -.598 | 8.000 | 2.438 | 98.000 | 4.811 | 120.000 |
| 6.235 | 143.000 | 3.293 | 166.000 | 3.435 | 200.000 | 2.913 | 271.000 | 2.818 | 333.000 |
| 2.676 | 390.000 | 2.537 | 428.946 | 6.130 | 434.696 | 6.954 | 436.014 | 6.911 | 441.727 |
| 6.858 | 448.714 | 6.806 | 455.658 | 6.754 | 462.558 | 6.702 | 469.415 | 6.651 | 476.229 |
| 6.600 | 483.000 | 6.566 | 489.757 | 6.300 | 542.000 | 5.400 | 621.000 | 5.400 | 744.000 |
| 5.400 | 1000.000 | | | | | | | | |

ONSHORE SEGMENT OF TRANSECT
FROM PRE-STORM ZERO NGVD.
TRANSECT NO. 14.000

PRE-STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| .000 | .000 | .400 | 8.000 | 6.800 | 98.000 | 11.800 | 120.000 | 14.800 | 143.000 |
| 8.600 | 166.000 | 8.900 | 200.000 | 7.800 | 271.000 | 7.600 | 333.000 | 7.300 | 390.000 |
| 7.007 | 428.946 | 6.964 | 434.696 | 6.954 | 436.014 | 6.911 | 441.727 | 6.858 | 448.714 |
| 6.806 | 455.658 | 6.754 | 462.558 | 6.702 | 469.415 | 6.651 | 476.229 | 6.600 | 483.000 |
| 6.566 | 489.757 | 6.300 | 542.000 | 5.400 | 621.000 | 5.400 | 744.000 | 5.400 | 1000.000 |

AFTER STORM TRANSECT:

| ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION | ELEVATION | STATION |
|---|---|---|---|---|---|---|---|---|---|
| -.788 | .000 | -.598 | 8.000 | 2.438 | 98.000 | 4.811 | 120.000 | 6.235 | 143.000 |
| 3.293 | 166.000 | 3.435 | 200.000 | 2.913 | 271.000 | 2.818 | 333.000 | 2.676 | 390.000 |
| 2.537 | 428.946 | 6.130 | 434.696 | 6.954 | 436.014 | 6.911 | 441.727 | 6.858 | 448.714 |
| 6.806 | 455.658 | 6.754 | 462.558 | 6.702 | 469.415 | 6.651 | 476.229 | 6.600 | 483.000 |
| 6.566 | 489.757 | 6.300 | 542.000 | 5.400 | 621.000 | 5.400 | 744.000 | 5.400 | 1000.000 |

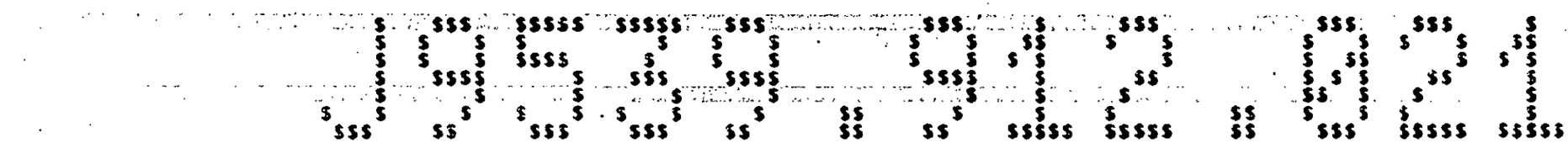
# ADDITIONAL INFORMATION

* * * * * TRANSECT NUMBER 14.000 * * * * *_WAVE HEIGHT INPUT GENERATOR_

LISTING OF WAVE HEIGHT ANALYSIS INPUT

TRANSECT NO. 14.000

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .0 | -.8 | 24.0 | 6.3 | 10.3 | .0 | .0 | .0 | .0 | .0 |
| OF | 8.0 | -.6 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| OF | 25.7 | .0 | .0 | .0 | .0 | 1.0 | .0 | .0 | .0 | .0 |
| IF | 98.0 | 2.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 120.0 | 4.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 143.0 | 6.2 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 166.0 | 3.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 200.0 | 3.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 271.0 | 2.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 333.0 | 2.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 390.0 | 2.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 428.9 | 2.5 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 434.7 | 6.1 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 436.0 | 7.0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 441.7 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 448.7 | 6.9 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 455.7 | 6.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 462.6 | 6.8 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 469.4 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 476.2 | 6.7 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 483.0 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 489.8 | 6.6 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 542.0 | 6.3 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 621.0 | 5.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| IF | 674.0 | 5.4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | .0 |
| ET | 1000.0 | 1000.0 | 5.0 | | | | | | | |



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PAGES=59

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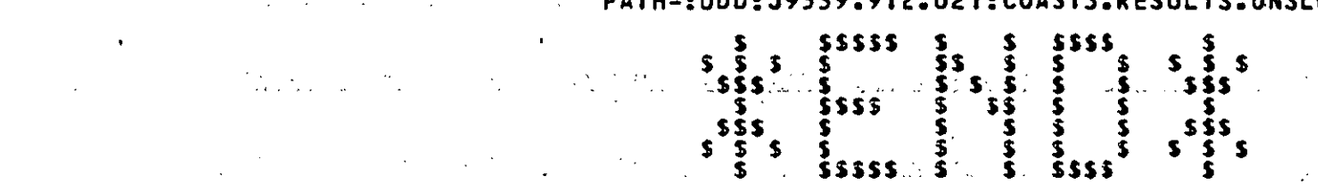
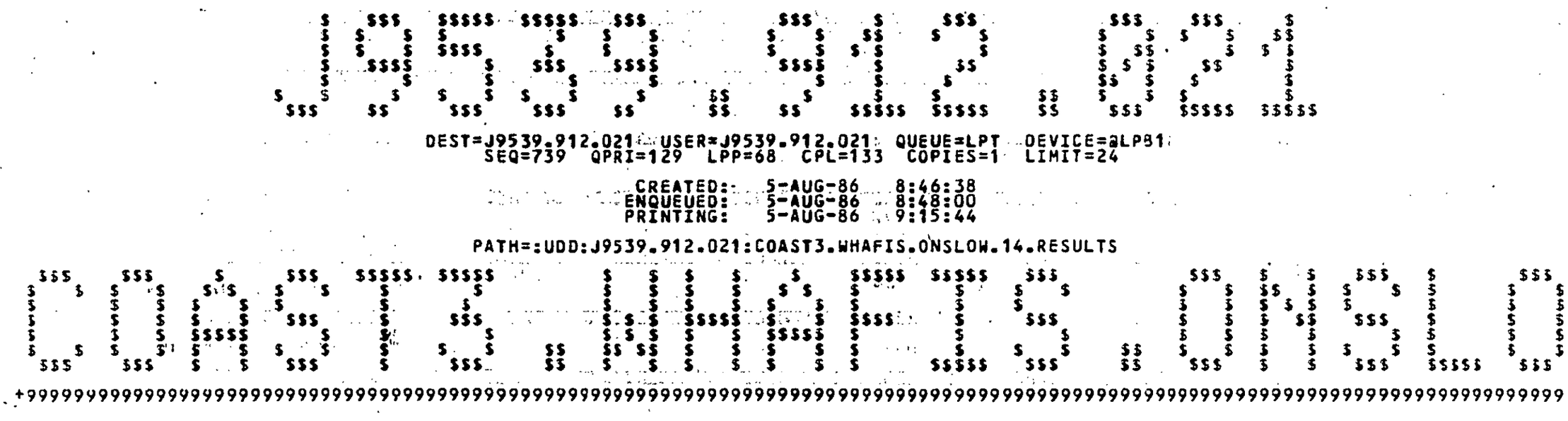


Greenhorne & O'Mara Inc-MV8000/A

AOS/VS REV 06.04
AOS/VS XLPT REV 05.00



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ENQUEUED: 5-AUG-86 8:48:00
PRINTING: 5-AUG-86 9:15:44

PATH=:UDD:J9539.912.021:COAST3.WHAFIS.ONSLOW.14.RESULTS



Greenhorne & O'Mara Inc-MV8000/A

AOS/VS REV 06.04
AOS/VS XLPT REV 05.00

NEW ONSLOW
WHAFIS
WITH APPURTE
SOFT
THIS
14

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 14.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 8.000 | -.600 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 25.700 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 98.000 | 2.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 120.000 | 4.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 143.000 | 6.200 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 166.000 | 3.300 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 200.000 | 3.400 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 271.000 | 2.900 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 333.000 | 2.800 | .000 | 9.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 390.000 | 2.700 | .000 | 8.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 428.900 | 2.500 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 434.700 | 6.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 436.000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 441.700 | 6.900 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 448.700 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 455.700 | 6.800 | .000 | 8.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 462.600 | 6.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 469.400 | 6.700 | .000 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 476.200 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 483.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 489.800 | 6.600 | .000 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 542.000 | 6.300 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 621.000 | 5.400 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 674.000 | 5.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 8.000 | -.600 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 25.700 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 98.000 | 2.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 120.000 | 4.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 143.000 | 6.200 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 166.000 | 3.300 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 200.000 | 3.400 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 271.000 | 2.900 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 333.000 | 2.800 | .000 | 9.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 390.000 | 2.700 | .000 | 8.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 428.900 | 2.500 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 434.700 | 6.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 436.000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 441.700 | 6.900 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 448.700 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 455.700 | 6.800 | .000 | 8.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 462.600 | 6.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 469.400 | 6.700 | .000 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 476.200 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 483.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 489.800 | 6.600 | .000 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 542.000 | 6.300 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 621.000 | 5.400 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 674.000 | 5.400 | .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 | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 8.00 | 8.03 | 15.92 |
| OF | 25.70 | 8.03 | 15.92 |
| IF | 98.00 | 6.16 | 14.61 |
| IF | 120.00 | 4.29 | 13.30 |
| IF | 143.00 | 3.20 | 12.54 |
| IF | 166.00 | 3.20 | 12.44 |
| IF | 200.00 | 3.20 | 12.24 |
| IF | 271.00 | 3.20 | 11.89 |
| IF | 333.00 | 3.20 | 11.44 |
| IF | 390.00 | 3.20 | 11.04 |
| IF | 428.90 | 3.20 | 10.69 |
| IF | 434.70 | 1.72 | 9.50 |
| IF | 436.00 | 1.01 | 9.01 |
| IF | 441.70 | 1.01 | 8.96 |
| IF | 448.70 | 1.01 | 8.91 |
| IF | 455.70 | 1.01 | 8.86 |
| IF | 462.60 | 1.01 | 8.81 |
| IF | 469.40 | 1.01 | 8.76 |
| IF | 476.20 | 1.01 | 8.71 |
| IF | 483.00 | 1.01 | 8.71 |
| IF | 489.80 | 1.01 | 8.66 |
| IF | 542.00 | .94 | 8.36 |
| IF | 621.00 | .94 | 7.91 |
| IF | 674.00 | .94 | 7.66 |

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = .94 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 |
|---|---|---|
| 166.00 | 6.30 | 10.10 |
| 200.00 | 6.30 | 9.90 |
| 271.00 | 6.30 | 9.40 |
| 333.00 | 6.30 | 9.00 |
| 390.00 | 6.30 | 8.60 |
| 428.90 | 6.30 | 8.30 |
| 441.70 | 6.30 | 8.20 |
| 455.70 | 6.30 | 8.10 |
| 469.40 | 6.30 | 8.00 |
| 489.80 | 6.30 | 7.90 |
| 542.00 | 6.30 | 7.50 |
| 621.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 429.68 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 49.08 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 99.90 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 116.69 | 13.50 | | |
| | | V12 EL=13 | 60 |

V12 EL=16

V12 EL=15

V12 EL=14

| | | | |
|---|---|---|---|
| | 143.00 | 12.54 | |
| V12 EL=13 | 151.88 | 12.50 | V12 EL=13 60 |
| | 166.00 | 12.44 | V12 EL=12 60 |
| | 200.00 | 12.24 | V11 EL=12 55 |
| V12 EL=12 | 271.00 | 11.89 | V10 EL=12 50 |
| | 324.79 | 11.50 | V 9 EL=12 45 |
| | 333.00 | 11.44 | V 8 EL=11 40 |
| | 390.00 | 11.04 | V 7 EL=11 35 |
| V12 EL=11 | 428.90 | 10.69 | V 6 EL=11 30 |
| | 429.68 | 10.40 | V 6 EL=11 30 |
| | 429.83 | 10.50 | A 4 EL=11 20 |
| | 434.70 | 9.50 | A 4 EL=10 20 |
| | 436.00 | 9.01 | A 4 EL= 9 20 |
| A1 EL=10 | 441.70 | 8.96 | A 4 EL= 9 20 |
| | 448.70 | 8.91 | A 4 EL= 9 20 |
| | 455.70 | 8.86 | A 4 EL= 9 20 |

V12 EL=13

V12 EL=19

V12 EL=12

V12 EL=11

A1 EL=10

| | | | | |
|---|---|---|---|---|
| | 462.60 | 8.81 | A 4 EL= 9 20 | |
| | 469.40 | 8.76 | A 4 EL= 9 20 | |
| | 483.00 | 8.71 | A 4 EL= 9 20 | |
| | 489.80 | 8.66 | A 4 EL= 9 20 | |
| | 517.19 | 8.50 | A 4 EL= 8 20 | |
| | 542.00 | 8.36 | A 4 EL= 8 20 | |
| | 621.00 | 7.91 | A 4 EL= 8 20 | |
| | 674.00 | 7.66 | | |

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 1.000

PART1 INPUT

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 21.800 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 38.000 | .600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 75.000 | 1.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 119.000 | 2.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 126.000 | 3.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 150.000 | 4.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 166.000 | 5.700 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 197.000 | 3.000 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 242.000 | 2.900 | .000 | 9.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 316.000 | 3.300 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 400.500 | 3.200 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 405.000 | 6.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 408.800 | 8.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 413.200 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 476.000 | 7.200 | .000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 507.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 574.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 21.800 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 38.000 | .600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 75.000 | 1.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 119.000 | 2.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 126.000 | 3.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 150.000 | 4.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 166.000 | 5.700 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 197.000 | 3.000 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 242.000 | 2.900 | .000 | 9.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 316.000 | 3.300 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 400.500 | 3.200 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 405.000 | 6.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 408.800 | 8.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 413.200 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 476.000 | 7.200 | .000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 507.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 574.000 | 6.600 | .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 | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 21.80 | 8.03 | 15.92 |
| IF | 38.00 | 7.57 | 15.60 |
| IF | 75.00 | 6.55 | 14.89 |
| IF | 119.00 | 6.24 | 14.67 |
| IF | 126.00 | 5.15 | 13.90 |
| IF | 150.00 | 4.68 | 13.58 |
| IF | 166.00 | 3.59 | 12.81 |
| IF | 197.00 | 3.59 | 12.71 |
| IF | 242.00 | 3.59 | 12.41 |
| IF | 316.00 | 3.59 | 11.91 |
| IF | 400.50 | 3.59 | 11.31 |
| IF | 405.00 | 1.95 | 9.86 |
| IF | 408.80 | .00 | 8.45 |
| AS | 413.20 | .00 | 8.40 |
| AS | 476.00 | .00 | 7.20 |
| IF | 507.00 | .00 | 7.20 |
| IF | 674.00 | .04 | 7.23 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 408.80 AND 413.20

BETWEEN 413.20 AND 476.00

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 197.00 | 6.30 | 10.10 |
| 242.00 | 6.30 | 9.70 |
| 316.00 | 6.30 | 9.10 |

| | | |
|---|---|---|
| 400.50 | 6.30 | 8.50 |
| 408.80 | 6.30 | 8.40 |
| 476.00 | 6.30 | 7.20 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 402.12 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | | FHF |
|---|---|---|---|---|
| .00 | 15.92 | | | |
| | | V12 | EL=16 | 60 |
| 43.01 | 15.50 | | | |
| | | V12 | EL=15 | 60 |
| 120.54 | 14.50 | | | |
| | | V12 | EL=14 | 60 |
| 151.59 | 13.50 | | | |
| | | V12 | EL=13 | 60 |
| 166.00 | 12.81 | | | |
| | | V12 | EL=13 | 60 |
| 197.00 | 12.71 | | | |
| | | V11 | EL=13 | 55 |
| 228.76 | 12.50 | | | |
| | | V10 | EL=12 | 50 |
| 242.00 | 12.41 | | | |
| | | V 9 | EL=12 | 45 |
| 316.00 | 11.91 | | | |
| | | V 8 | EL=12 | 40 |
| 373.99 | 11.50 | | | |
| | | V 7 | EL=11 | 35 |
| 400.50 | 11.31 | | | |

| | | | |
|---|---|---|---|
| | 402.12 | 10.60 | V 7 EL=11 35 |
| | 403.02 | 10.50 | A 2 EL=11 10 |
| | 405.00 | 9.86 | A 2 EL=10 10 |
| | 405.98 | 9.50 | A 2 EL=10 10 |
| | 408.67 | 8.50 | A 2 EL= 9 10 |
| | 408.80 | 8.45 | A 2 EL= 8 10 |
| | 413.20 | 8.40 | |
| SK [illegible] | 476.00 | 7.20 | A 2 EL= 7 10 |
| | 674.00 | 7.23 | |

ZONE TERMINATED AT END OF TRANSECT

V12 FL=11

ZONE B

V11 FL 11

A9 EL=1

MATCH A9 FL=8

A1 EL=

OK

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 2.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 26.200 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 63.000 | 1.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 103.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 124.000 | 3.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 125.000 | 3.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 202.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 222.000 | 7.000 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 243.000 | 5.200 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 273.000 | 3.700 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 356.000 | 3.800 | .000 | 9.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 361.600 | 3.600 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 367.400 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 370.300 | 9.000 | .000 | 9.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 376.000 | 8.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 384.600 | 8.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 416.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 488.000 | 7.600 | .000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 543.000 | 6.700 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 588.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 674.000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .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 |
| OF | END STATION 26.200 | 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 63.000 | 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 103.000 | END ELEVATION 2.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 124.000 | END ELEVATION 3.300 | 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 3.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 202.000 | END ELEVATION 3.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 222.000 | END ELEVATION 7.000 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 243.000 | END ELEVATION 5.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 273.000 | END ELEVATION 3.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 356.000 | END ELEVATION 3.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 361.600 | END ELEVATION 3.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 367.400 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 370.300 | 9.000 | .000 | 9.000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 376.000 | 8.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 384.600 | 8.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 416.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 488.000 | 7.600 | .000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 543.000 | 6.700 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 588.000 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 674.000 | 10.300 | .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 | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 26.20 | 8.03 | 15.92 |
| IF | 63.00 | 7.18 | 15.32 |
| IF | 103.00 | 6.32 | 14.72 |
| IF | 124.00 | 5.46 | 14.12 |
| IF | 125.00 | 5.38 | 14.07 |
| IF | 202.00 | 4.99 | 13.79 |
| IF | 222.00 | 2.57 | 12.10 |
| IF | 243.00 | 2.57 | 12.00 |
| IF | 273.00 | 2.57 | 11.80 |
| IF | 336.00 | 2.58 | 11.40 |
| IF | 361.60 | 2.58 | 11.00 |
| IF | 367.40 | 1.48 | 10.14 |
| IF | 370.30 | .00 | 9.05 |
| AS | 376.00 | .00 | 8.90 |
| AS | 384.60 | .00 | 8.80 |
| AS | 416.00 | .00 | 8.50 |
| AS | 488.00 | .00 | 7.60 |
| IF | 543.00 | .00 | 7.30 |
| IF | 588.00 | .01 | 7.01 |
| AS | 674.00 | -2.57 | 10.30 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

| | | | |
|---|---|---|---|
| BETWEEN | 370.30 | AND | 376.00 |
| BETWEEN | 376.00 | AND | 384.60 |
| BETWEEN | 384.60 | AND | 416.00 |
| BETWEEN | 416.00 | AND | 488.00 |
| BETWEEN | 588.00 | AND | 674.00 |

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 243.00 | 6.30 | 10.10 |
| 273.00 | 6.30 | 9.90 |
| 336.00 | 6.30 | 9.30 |
| 361.60 | 6.30 | 9.10 |
| 370.30 | 6.30 | 9.00 |
| 488.00 | 6.30 | 7.60 |
| 543.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 218.48 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 52.17 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 110.78 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 205.48 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 217.29 | 12.50 | | |
| | | V12 EL=12 | 60 |
| 218.48 | 12.40 | | |
| | | A 7 EL=12 | 35 |
| 222.00 | 12.10 | | |
| | | A 7 EL=12 | 35 |

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PRINTED
2 11.

| | |
|---|---|
| 243.00 | 12.00 |
| 273.00 | 11.80 |
| 320.88 | 11.50 |
| 336.00 | 11.40 |
| 361.60 | 11.00 |
| 364.98 | 10.50 |
| 367.40 | 10.14 |
| 369.10 | 9.50 |
| 370.30 | 9.05 |
| 376.00 | 8.90 |
| 384.60 | 8.80 |
| 416.00 | 8.50 |
| 488.00 | 7.60 |
| 506.46 | 7.50 |
| 543.00 | 7.30 |
| 588.00 | 7.01 |
| 674.00 | 10.30 |

A 7 EL=12 35

A 7 EL=12 35

A 7 EL=11 35

A 7 EL=11 35

A 7 EL=11 35

A 7 EL=10 35

A 7 EL=10 35

A 7 EL= 9 35

A 7 EL= 8 35

A 7 EL= 7 35

A 7 EL= 7 35

A9 EL=12

A9 EL=11

A9 F 11

ZONE B

A9 F 11

MATCH

A9 EL-8

A9 F 11

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 3.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 28.900 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 101.000 | 2.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 108.000 | 2.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 151.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 167.000 | 4.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 234.000 | 5.600 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 249.000 | 5.200 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 264.000 | 3.400 | .000 | 9.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 295.000 | 3.900 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 349.400 | 3.300 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 355.000 | 6.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 357.700 | 8.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 363.100 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 413.000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 527.000 | 7.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 539.000 | 6.700 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 674.000 | 6.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .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 |
| OF | END STATION 28.900 | 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 101.000 | 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 108.000 | END ELEVATION 2.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 151.000 | END ELEVATION 3.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 167.000 | END ELEVATION 4.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 234.000 | END ELEVATION 5.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 249.000 | END ELEVATION 5.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 264.000 | END ELEVATION 3.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.800 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 295.000 | END ELEVATION 3.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 349.400 | END ELEVATION 3.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 355.000 | END ELEVATION 6.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 357.700 | 8.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 363.100 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 413.000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 527.000 | 7.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 639.000 | 6.700 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 674.000 | 6.200 | .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 | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 28.90 | 8.03 | 15.92 |
| IF | 101.00 | 6.47 | 14.83 |
| IF | 108.00 | 5.93 | 14.45 |
| IF | 151.00 | 4.99 | 13.79 |
| IF | 167.00 | 4.52 | 13.47 |
| IF | 234.00 | 3.67 | 12.87 |
| IF | 249.00 | 3.67 | 12.77 |
| IF | 264.00 | 3.67 | 12.52 |
| IF | 295.00 | 3.67 | 12.17 |
| IF | 349.40 | 3.67 | 11.52 |
| IF | 355.00 | 1.33 | 9.43 |
| IF | 357.70 | .00 | 8.45 |
| AS | 363.10 | .00 | 8.30 |
| AS | 413.00 | .00 | 7.20 |
| AS | 527.00 | .00 | 7.10 |
| IF | 639.00 | .01 | 7.05 |
| IF | 674.00 | .01 | 7.01 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

| | | | |
|---|---|---|---|
| BETWEEN | 357.70 | AND | 363.10 |
| BETWEEN | 363.10 | AND | 413.00 |
| BETWEEN | 413.00 | AND | 527.00 |

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 249.00 | 6.30 | 10.10 |
| 264.00 | 6.30 | 9.80 |

| | | |
|---|---|---|
| 295.00 | 6.30 | 9.40 |
| 349.40 | 6.30 | 8.50 |
| 357.70 | 6.30 | 8.40 |
| 527.00 | 6.30 | 7.10 |
| 639.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 350.99 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 56.88 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 107.08 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 165.38 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 234.00 | 12.87 | | |
| | | V12 EL=13 | 60 |
| 249.00 | 12.77 | | |
| | | V11 EL=13 | 55 |
| 264.00 | 12.52 | | |
| | | V10 EL=13 | 50 |
| 265.43 | 12.50 | | |
| | | V 9 EL=12 | 45 |
| 295.00 | 12.17 | | |
| | | V 8 EL=12 | 40 |
| 349.40 | 11.52 | | |

ROAD ON GRADE →

| | | | | |
|---|---|---|---|---|
| | | V 7 | EL=12 | 35 |
| 349.44 | 11.50 | | | |
| | | V 7 | EL=11 | 35 |
| 350.99 | 10.60 | | | |
| | | A 2 | EL=11 | 10 |
| 352.13 | 10.50 | | | |
| | | A 2 | EL=10 | 10 |
| 354.81 | 9.50 | | | |
| | | A 2 | EL= 9 | 10 |
| 355.00 | 9.43 | | | |
| | | A 2 | EL= 9 | 10 |
| 357.56 | 8.50 | | | |
| | | A 2 | EL= 8 | 10 |
| 357.70 | 8.45 | | | |
| 363.10 | 8.30 | | | |
| 413.00 | 7.20 | | | |
| 527.00 | 7.10 | | | |
| | | A 2 | EL= 7 | 10 |
| >639.00 | 7.05 | | | |
| | | A 2 | EL= 7 | 10 |
| 674.00 | 7.01 | | | |

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 4.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 25.600 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 54.000 | .900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 72.000 | 2.800 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 103.000 | 1.800 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 108.000 | 1.900 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 282.000 | 1.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 583.000 | 1.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 584.100 | 1.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 587.600 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 588.800 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 593.400 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 598.000 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 602.600 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 674.000 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 25.600 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 54.000 | .900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 72.000 | 2.800 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 103.000 | 1.800 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 108.000 | 1.900 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 282.000 | 1.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 583.000 | 1.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 584.100 | 1.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 587.600 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 588.800 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 593.400 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 598.000 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 602.600 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 574.000 | 4.000 | .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 | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 25.60 | 8.03 | 15.92 |
| IF | 54.00 | 7.33 | 15.43 |
| IF | 72.00 | 5.85 | 14.40 |
| IF | 103.00 | 4.45 | 12.01 |
| IF | 108.00 | 3.98 | 10.03 |
| IF | 282.00 | 3.98 | 9.78 |
| IF | 583.00 | 3.98 | 9.78 |
| IF | 584.10 | 3.98 | 9.78 |
| IF | 587.60 | 2.34 | 8.64 |
| IF | 588.80 | 2.34 | 8.64 |
| IF | 593.40 | 2.34 | 8.64 |
| IF | 598.00 | 2.34 | 8.64 |
| IF | 602.60 | 2.34 | 8.64 |
| IF | 674.00 | 2.34 | 8.64 |

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = 2.34 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 |
|---|---|---|
| 103.00 | 6.30 | 7.50 |
| 108.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 586.19 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 50.09 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 70.18 | 14.50 | | |
| | | V10 EL=14 | 50 |
| 72.00 | 14.40 | | |
| | | V 8 EL=14 | 40 |
| 83.64 | 13.50 | | |
| | | V 8 EL=13 | 40 |
| 96.65 | 12.50 | | |
| | | V 6 EL=12 | 30 |
| 103.00 | 12.01 | | |
| | | V 3 EL=12 | 15 |
| 104.30 | 11.50 | | |
| | | V 3 EL=11 | 15 |
| 106.82 | 10.50 | | |
| | | V 3 EL=10 | 15 |
| → 108.00 | 10.03 | | |
| | | V 2 EL=10 | 10 |
| 584.97 | 9.50 | | |
| | | V 2 EL= 9 | 10 |
| 586.19 | 9.10 | | |
| | | A 5 EL= 9 | 25 |
| 674.00 | 8.64 | | |

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 5.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 12.000 | -.200 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 15.300 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 57.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 66.000 | 4.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 76.000 | 6.300 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 96.000 | 3.500 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 108.000 | 3.600 | .000 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 130.000 | 3.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 149.000 | 5.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 167.000 | 3.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 215.000 | 2.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 439.600 | 2.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 446.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 447.000 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 454.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 461.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 469.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 476.500 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 483.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 491.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 498.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 506.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 513.500 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 520.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 528.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 535.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 543.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 550.500 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .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 |
| OF | END STATION 12.000 | END ELEVATION -.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 15.300 | 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 57.000 | END ELEVATION 2.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 66.000 | 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 76.000 | END ELEVATION 6.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 96.000 | END ELEVATION 3.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 108.000 | END ELEVATION 3.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 130.000 | END ELEVATION 3.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 149.000 | END ELEVATION 5.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 167.000 | END ELEVATION 3.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 215.000 | END ELEVATION 2.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 439.600 | 2.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 446.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 447.000 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 454.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 461.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 469.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 476.500 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 483.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 491.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 498.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 506.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 513.500 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 520.900 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 528.300 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 535.700 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 543.100 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 550.500 | 7.300 | .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 | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 12.00 | 8.03 | 15.92 |
| OF | 15.30 | 8.03 | 15.92 |
| IF | 57.00 | 6.32 | 14.72 |
| IF | 66.00 | 4.91 | 13.74 |
| IF | 76.00 | 3.12 | 12.48 |
| IF | 96.00 | 3.12 | 11.48 |
| IF | 108.00 | 2.89 | 9.82 |
| IF | 130.00 | 2.89 | 9.32 |
| IF | 149.00 | 1.64 | 8.45 |
| IF | 167.00 | 1.64 | 8.45 |
| IF | 215.00 | 1.64 | 8.45 |
| IF | 439.60 | 1.67 | 8.47 |
| IF | 446.90 | .00 | 7.30 |
| AS | 447.00 | .00 | 7.30 |
| AS | 454.30 | .00 | 7.30 |
| AS | 461.70 | .00 | 7.30 |
| AS | 469.10 | .00 | 7.30 |
| AS | 476.50 | .00 | 7.30 |
| AS | 483.90 | .00 | 7.30 |
| AS | 491.30 | .00 | 7.30 |
| AS | 498.70 | .00 | 7.30 |
| AS | 506.10 | .00 | 7.30 |
| AS | 513.50 | .00 | 7.30 |
| AS | 520.90 | .00 | 7.30 |
| AS | 528.30 | .00 | 7.30 |
| AS | 535.70 | .00 | 7.30 |
| AS | 543.10 | .00 | 7.30 |

AS 550.50 .00 7.30

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

| | | | |
|---|---|---|---|
| BETWEEN | 446.90 | AND | 447.00 |
| BETWEEN | 447.00 | AND | 454.30 |
| BETWEEN | 454.30 | AND | 461.70 |
| BETWEEN | 461.70 | AND | 469.10 |
| BETWEEN | 469.10 | AND | 476.50 |
| BETWEEN | 476.50 | AND | 483.90 |
| BETWEEN | 483.90 | AND | 491.30 |
| BETWEEN | 491.30 | AND | 498.70 |
| BETWEEN | 498.70 | AND | 506.10 |
| BETWEEN | 506.10 | AND | 513.50 |
| BETWEEN | 513.50 | AND | 520.90 |
| BETWEEN | 520.90 | AND | 528.30 |
| BETWEEN | 528.30 | AND | 535.70 |
| BETWEEN | 535.70 | AND | 543.10 |
| BETWEEN | 543.10 | AND | 550.50 |

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 96.00 | 6.30 | 8.30 |
| 108.00 | 6.30 | 7.30 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 102.15 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |

| | | | |
|---|---|---|---|
| | V12 EL=16 | 60 | |
| 30.01 | 15.50 | | |
| | V12 EL=15 | 60 | |
| 59.04 | 14.50 | | |
| | V12 EL=14 | 60 | |
| 67.91 | 13.50 | | |
| | V12 EL=13 | 60 | |
| 75.87 | 12.50 | | |
| | V11 EL=12 | 55 | |
| 76.00 | 12.48 | | |
| | V 9 EL=12 | 45 | |
| 95.68 | 11.50 | | |
| | V 7 EL=11 | 35 | |
| 96.00 | 11.48 | | |
| | V 5 EL=11 | 25 | |
| 102.15 | 9.90 | | |
| | A 4 EL=11 | 20 | |
| 103.10 | 10.50 | | |
| | A 4 EL=10 | 20 | |
| >108.00 | 9.82 | | |
| | A 4 EL=10 | 20 | |
| 122.09 | 9.50 | | |
| | A 4 EL= 9 | 20 | |
| 147.84 | 8.50 | | |
| | A 4 EL= 8 | 20 | |
| 445.65 | 7.50 | | |
| | A 4 EL= 7 | 20 | |
| 446.90 | 7.30 | | |
| 447.00 | 7.30 | | |
| 454.30 | 7.30 | | |

V12 EL=16

V12 EL=15

V12 EL=14

A 4 EL=11

A 4 EL=9

| | |
|---|---|
| 461.70 | 7.30 |
| 469.10 | 7.30 |
| 476.50 | 7.30 |
| 483.90 | 7.30 |
| 491.30 | 7.30 |
| 498.70 | 7.30 |
| 506.10 | 7.30 |
| 513.50 | 7.30 |
| 520.90 | 7.30 |
| 528.30 | 7.30 |
| 535.70 | 7.30 |
| 543.10 | 7.30 |
| 550.50 | 7.30 |

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 6.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 12.000 | -.300 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 20.600 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 60.000 | 1.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 76.000 | 2.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 86.000 | 5.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 100.000 | 5.900 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 115.000 | 5.100 | .000 | 9.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 131.000 | 3.500 | .000 | 8.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 145.000 | 4.700 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 154.000 | 3.100 | .000 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 170.000 | 3.300 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 199.000 | 3.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 222.000 | 4.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 247.000 | 3.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 275.000 | 2.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 361.800 | 2.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 368.500 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 369.500 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 376.200 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 383.800 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 391.500 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 399.100 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 406.800 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 414.400 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 422.100 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 429.700 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 437.400 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 445.000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 452.700 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 460.300 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 468.000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 475.600 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 12.000 | -.300 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 20.600 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 60.000 | 1.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 76.000 | 2.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 86.000 | 5.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 100.000 | 5.900 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 115.000 | 5.100 | .000 | 9.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 131.000 | 3.500 | .000 | 8.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 145.000 | 4.700 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 154.000 | 3.100 | .000 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 170.000 | 3.300 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |


64

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | END STATION 199.000 | 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 222.000 | END ELEVATION 4.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 247.000 | END ELEVATION 3.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 275.000 | END ELEVATION 2.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 361.800 | END ELEVATION 2.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 368.500 | END ELEVATION 7.000 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 369.500 | END ELEVATION 7.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 376.200 | END ELEVATION 7.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 383.800 | END ELEVATION 7.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 391.500 | END ELEVATION 7.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 399.100 | END ELEVATION 7.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 406.800 | END ELEVATION 7.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| AS | END STATION 414.400 | END ELEVATION 7.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 422.100 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 429.700 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 437.400 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 445.000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 452.700 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 460.300 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 468.000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 475.600 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.

# ADDITIONAL INFORMATION

PART2 WAVE HEIGHTS AND ELEVATIONS

| LOCATION | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 12.00 | 8.03 | 15.92 |
| OF | 20.60 | 8.03 | 15.92 |
| IF | 60.00 | 6.94 | 15.16 |
| IF | 76.00 | 5.77 | 14.34 |
| IF | 86.00 | 4.13 | 13.19 |
| IF | 100.00 | 3.43 | 12.70 |
| IF | 115.00 | 3.43 | 12.35 |
| IF | 131.00 | 3.43 | 11.60 |
| IF | 145.00 | 2.73 | 10.41 |
| IF | 154.00 | 2.73 | 9.91 |
| IF | 170.00 | 2.73 | 9.31 |
| IF | 199.00 | 2.73 | 8.91 |
| IF | 222.00 | 1.95 | 8.36 |
| IF | 247.00 | 1.95 | 8.36 |
| IF | 275.00 | 1.95 | 8.37 |
| IF | 361.80 | 1.95 | 8.37 |
| IF | 368.50 | .00 | 7.00 |
| AS | 369.50 | -.47 | 7.60 |
| AS | 376.20 | -.47 | 7.60 |
| AS | 383.80 | -.47 | 7.60 |
| AS | 391.50 | -.47 | 7.60 |
| AS | 399.10 | -.47 | 7.60 |
| AS | 406.80 | -.47 | 7.60 |
| AS | 414.40 | -.47 | 7.60 |
| AS | 422.10 | -.47 | 7.60 |
| AS | 429.70 | -.47 | 7.60 |
| AS | 437.40 | -.47 | 7.60 |

| | | | |
|---|---|---|---|
| AS | 445.00 | -.47 | 7.60 |
| AS | 452.70 | -.47 | 7.60 |
| AS | 460.30 | -.47 | 7.60 |
| AS | 468.00 | -.47 | 7.60 |
| AS | 475.60 | -.47 | 7.60 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

| | | | |
|---|---|---|---|
| BETWEEN | 368.50 | AND | 369.50 |
| BETWEEN | 369.50 | AND | 376.20 |
| BETWEEN | 376.20 | AND | 383.80 |
| BETWEEN | 383.80 | AND | 391.50 |
| BETWEEN | 391.50 | AND | 399.10 |
| BETWEEN | 399.10 | AND | 406.80 |
| BETWEEN | 406.80 | AND | 414.40 |
| BETWEEN | 414.40 | AND | 422.10 |
| BETWEEN | 422.10 | AND | 429.70 |
| BETWEEN | 429.70 | AND | 437.40 |
| BETWEEN | 437.40 | AND | 445.00 |
| BETWEEN | 445.00 | AND | 452.70 |
| BETWEEN | 452.70 | AND | 460.30 |
| BETWEEN | 460.30 | AND | 468.00 |
| BETWEEN | 468.00 | AND | 475.60 |

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 115.00 | 6.30 | 9.60 |
| 131.00 | 6.30 | 8.80 |
| 145.00 | 6.30 | 8.20 |
| 154.00 | 6.30 | 7.80 |
| 170.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 139.62 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 42.44 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 72.88 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 83.33 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 100.00 | 12.70 | | |
| | | V11 EL=13 | 55 |
| 108.67 | 12.50 | | |
| | | V10 EL=12 | 50 |
| 115.00 | 12.35 | | |
| | | V 8 EL=12 | 40 |
| 131.00 | 11.60 | | |
| | | V 7 EL=12 | 35 |
| 132.20 | 11.50 | | |
| | | V 7 EL=11 | 35 |
| 139.62 | 10.60 | | |
| | | A 5 EL=11 | 25 |
| 143.95 | 10.50 | | |
| | | A 5 EL=10 | 25 |
| 145.00 | 10.41 | | |
| | | A 5 EL=10 | 25 |
| 154.00 | 9.91 | | |

OK

| | | | |
|---|---|---|---|
| | | A 5 EL=10 | 25 |
| | 164.96 | 9.50 | |
| | | A 5 EL= 9 | 25 |
| SR 156B → | 170.00 | 9.31 | |
| | | A 5 EL= 9 | 25 |
| | 216.31 | 8.50 | |
| | | A 5 EL= 8 | 25 |
| | 366.05 | 7.50 | |
| | | A 5 EL= 7 | 25 |
| | 368.50 | 7.00 | |
| | 369.50 | 7.60 | |
| | 376.20 | 7.60 | |
| | 383.80 | 7.60 | |
| | 391.50 | 7.60 | |
| | 399.10 | 7.60 | |
| | 406.80 | 7.60 | |
| | 414.40 | 7.60 | |
| | 422.10 | 7.60 | |
| | 429.70 | 7.60 | |
| | 437.40 | 7.60 | |
| | 445.00 | 7.60 | |
| | 452.70 | 7.60 | |
| | 460.30 | 7.60 | |
| | 468.00 | 7.60 | |

A4 EL=11

A4 EL=9

A4 EL=8

A4 EL=7

ZONE B

475.60 7.60

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 7.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 12.000 | -.400 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 22.100 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 77.000 | 2.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 95.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 103.000 | 5.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 108.000 | 4.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 142.000 | 5.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 154.000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 182.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 209.000 | 3.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 233.000 | 2.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 251.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 310.000 | 4.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 310.100 | 4.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 319.600 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 323.800 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 325.200 | 10.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 334.500 | 9.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 343.400 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 352.000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 360.300 | 8.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 368.300 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 376.100 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 383.500 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 390.800 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 397.700 | 7.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 404.500 | 6.800 | .000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 411.000 | 6.500 | .000 | 6.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 418.100 | 6.700 | .000 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 471.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 574.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .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 |
| OF | END STATION 12.000 | END ELEVATION -.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 22.100 | 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 77.000 | 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 95.000 | END ELEVATION 4.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 103.000 | END ELEVATION 5.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 103.000 | END ELEVATION 4.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 142.000 | END ELEVATION 5.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 154.000 | 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 182.000 | END ELEVATION 4.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 209.000 | END ELEVATION 3.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 233.000 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 251.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 310.000 | 4.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 310.100 | 4.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 319.600 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 323.800 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 325.200 | 10.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 354.500 | 9.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 343.400 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 352.000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 360.300 | 8.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 368.300 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 376.100 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 383.500 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 390.800 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 397.700 | 7.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 404.500 | 6.800 | .000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 411.000 | 6.500 | .000 | 6.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 418.100 | 6.700 | .000 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 471.000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 674.000 | 8.500 | .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 | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 12.00 | 8.03 | 15.92 |
| OF | 22.10 | 8.03 | 15.92 |
| IF | 77.00 | 6.47 | 14.83 |
| IF | 95.00 | 4.76 | 13.63 |
| IF | 103.00 | 3.82 | 12.98 |
| IF | 108.00 | 3.82 | 12.98 |
| IF | 142.00 | 3.82 | 12.98 |
| IF | 154.00 | 2.65 | 12.16 |
| IF | 182.00 | 2.65 | 12.16 |
| IF | 209.00 | 2.65 | 12.16 |
| IF | 233.00 | 2.66 | 12.16 |
| IF | 251.00 | 2.66 | 12.16 |
| IF | 310.00 | 2.66 | 12.17 |
| IF | 310.10 | 2.66 | 12.17 |
| IF | 319.60 | .00 | 10.30 |
| AS | 323.80 | .00 | 10.30 |
| AS | 325.20 | .00 | 10.20 |
| AS | 334.50 | .00 | 9.80 |
| AS | 343.40 | .00 | 9.40 |
| AS | 352.00 | .00 | 9.10 |
| AS | 360.30 | .00 | 8.70 |
| AS | 368.30 | .00 | 8.40 |
| AS | 376.10 | .00 | 8.00 |
| AS | 383.50 | .00 | 7.70 |
| AS | 390.80 | .00 | 7.40 |
| IF | 397.70 | .00 | 8.70 |
| IF | 404.50 | .00 | 7.00 |

| | | | |
|---|---|---|---|
| IF | 411.00 | .00 | 6.85 |
| IF | 418.10 | .00 | 6.75 |
| AS | 471.00 | -1.40 | 8.50 |
| AS | 674.00 | -1.40 | 8.50 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

| | | | |
|---|---|---|---|
| BETWEEN | 319.60 | AND | 323.80 |
| BETWEEN | 323.80 | AND | 325.20 |
| BETWEEN | 325.20 | AND | 334.50 |
| BETWEEN | 334.50 | AND | 343.40 |
| BETWEEN | 343.40 | AND | 352.00 |
| BETWEEN | 352.00 | AND | 360.30 |
| BETWEEN | 360.30 | AND | 368.30 |
| BETWEEN | 368.30 | AND | 376.10 |
| BETWEEN | 376.10 | AND | 383.50 |
| BETWEEN | 383.50 | AND | 390.80 |
| BETWEEN | 418.10 | AND | 471.00 |
| BETWEEN | 471.00 | AND | 674.00 |

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 397.70 | 6.30 | 7.10 |
| 404.50 | 6.30 | 6.90 |
| 411.00 | 6.30 | 6.80 |
| 418.10 | 6.30 | 6.70 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 150.43 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 43.41 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 81.97 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 96.59 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 148.97 | 12.50 | | |
| | | V12 EL=12 | 60 |
| 150.43 | 12.40 | | |
| →251 | | A 7 EL=12 | 35 |
| 313.49 | 11.50 | | |
| | | A 7 EL=11 | 35 |
| 318.58 | 10.50 | | |
| | | A 7 EL=10 | 35 |
| 319.60 | 10.30 | | |
| 323.80 | 10.30 | | |
| 325.20 | 10.20 | | |
| 334.50 | 9.80 | | |
| 343.40 | 9.40 | | |
| 352.00 | 9.10 | | |
| 360.30 | 8.70 | | |
| 368.30 | 8.40 | | |
| 376.10 | 8.00 | | |
| 383.50 | 7.70 | | |

V12 EL=16

V12 EL=15

V12 EL=14

A 7 EL=12

| | | | |
|---|---|---|---|
| | 390.80 | 7.40 | |
| | 391.33 | 7.50 | A 7 EL= 7 35 |
| | 396.64 | 8.50 | A 7 EL= 8 35 |
| | 397.70 | 8.70 | A 7 EL= 9 35 |
| | 398.50 | 8.50 | A 7 EL= 9 35 |
| | 402.50 | 7.50 | A 7 EL= 8 35 |
| | 404.50 | 7.00 | A 7 EL= 7 35 |
| | 411.00 | 6.85 | A 7 EL= 7 35 |
| | 418.10 | 6.75 | A 7 EL= 7 35 |
| NC 210 ——→ | 471.00 | 8.50 | |
| | 674.00 | 8.50 | |

A7 EL=9

A 9

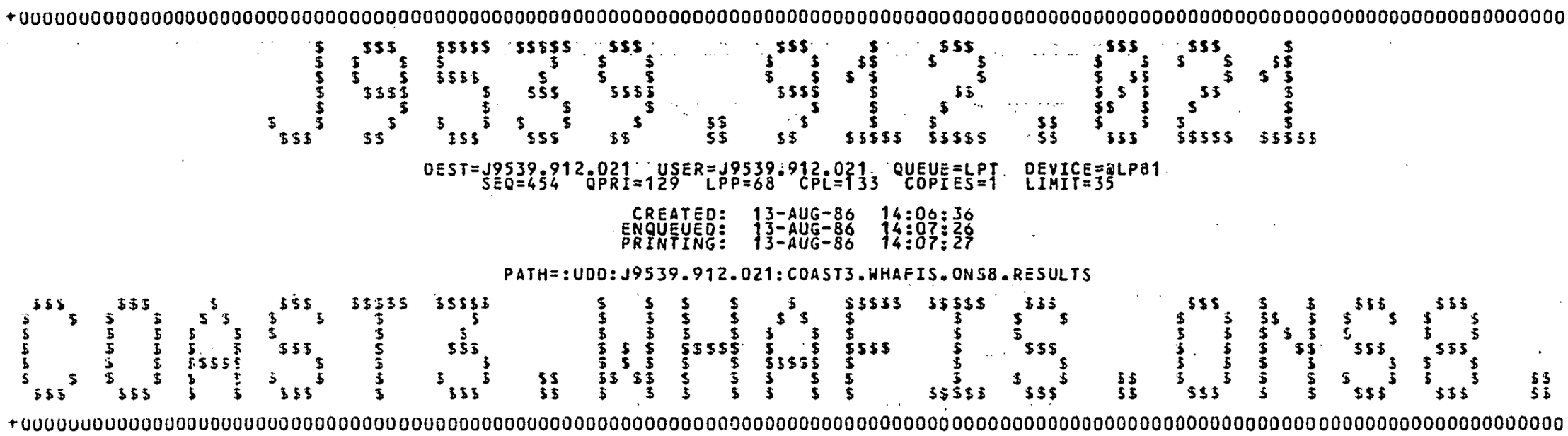
11 1

OK

MATCH
ZONE B

11 B

ZONE TERMINATED AT END OF TRANSECT



DEST=J9539.912.021 USER=J9539.912.021 QUEUE=LPT DEVICE=@LP81
SEQ=454 QPRI=129 LPP=68 CPL=133 COPIES=1 LIMIT=35

CREATED: 13-AUG-86 14:06:36
ENQUEUED: 13-AUG-86 14:07:26
PRINTING: 13-AUG-86 14:07:27

PATH=:UDD:J9539.912.021:COAST3.WHAFIS.ON58.RESULTS



Greenhorne & O'Mara Inc-MV8000/A

AOS/VS REV 06.04
AOS/VS XLPT REV 05.00

New T-8

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 8.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 10.000 | -.300 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 15.400 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 60.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 86.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 105.000 | 5.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 110.000 | 6.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 125.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 139.000 | 4.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 151.000 | 9.100 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 167.000 | 8.600 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 178.000 | 5.600 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 204.000 | 2.600 | .000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 208.000 | 2.500 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 307.000 | 2.400 | .000 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 327.000 | 1.900 | .000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 338.000 | 1.300 | .000 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 351.000 | 2.300 | .000 | 7.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 373.000 | 2.500 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 496.700 | 2.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 498.000 | 3.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 503.700 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 505.100 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 512.100 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 519.200 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 526.300 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 533.300 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 540.400 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 547.400 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 554.500 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 561.600 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 568.600 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 575.700 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 582.800 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 589.800 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 596.900 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 603.900 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 611.000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 618.100 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 625.100 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 632.200 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 639.300 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 646.300 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 653.400 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 660.400 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 667.500 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 674.000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | 1000.000 | 1000.000 | 5.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 10.000 | -.300 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 15.400 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 60.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 86.000 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 105.000 | 5.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 110.000 | 6.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 125.000 | 4.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 139.000 | 4.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 151.000 | 9.100 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 167.000 | 8.600 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 178.000 | 5.600 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | END STATION 204.000 | END ELEVATION 2.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 208.000 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 307.000 | END ELEVATION 2.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 327.000 | END ELEVATION 1.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.600 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 338.000 | END ELEVATION 1.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 351.000 | END ELEVATION 2.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 373.000 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 7.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 496.700 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 493.000 | END ELEVATION 3.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 503.700 | 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 505.100 | 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 512.100 | 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 519.200 | END ELEVATION 6.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 526.300 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 533.300 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 540.400 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 547.400 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 554.500 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 561.600 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 568.600 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 575.700 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| I- | 582.800 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 589.800 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 596.900 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 603.900 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END | END | NEW SURGE | NEW SURGE | | | | | | AVERAGE |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | STATION | ELEVATION | 10-YEAR | 100-YEAR | | | | | | A-ZONES |
| IF | 611.000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 618.100 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 625.100 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 632.200 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 639.300 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 646.300 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 653.400 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 660.400 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 667.500 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 674.000 | 6.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

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

NOTE:

SURGE ELEVATION INCLUDES CONTRIBUTIONS FROM ASTRONOMICAL AND STORM TIDES.


44

PART2 WAVE HEIGHTS AND ELEVATIONS

| | LOCATION | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 10.00 | 8.03 | 15.92 |
| OF | 15.40 | 8.03 | 15.92 |
| IF | 60.00 | 6.32 | 14.72 |
| IF | 86.00 | 4.99 | 13.79 |
| IF | 105.00 | 4.06 | 13.14 |
| IF | 110.00 | 3.20 | 12.54 |
| IF | 125.00 | 3.20 | 12.54 |
| IF | 139.00 | 3.20 | 12.54 |
| IF | 151.00 | .94 | 10.96 |
| IF | 167.00 | .94 | 10.86 |
| IF | 178.00 | .94 | 10.66 |
| IF | 204.00 | .99 | 10.39 |
| IF | 208.00 | 1.00 | 10.15 |
| IF | 307.00 | 1.19 | 9.48 |
| IF | 327.00 | 1.20 | 8.59 |
| IF | 338.00 | 1.21 | 8.35 |
| IF | 351.00 | 1.21 | 8.20 |
| IF | 373.00 | 1.22 | 8.01 |
| IF | 496.70 | 1.25 | 7.88 |
| IF | 498.00 | 1.25 | 7.88 |
| IF | 503.70 | .08 | 7.05 |
| IF | 505.10 | .08 | 7.05 |
| IF | 512.10 | .08 | 7.05 |
| IF | 519.20 | .08 | 7.05 |
| IF | 526.30 | .08 | 7.05 |
| IF | 533.30 | .08 | 7.05 |
| IF | 540.40 | .08 | 7.05 |

| | | | |
|---|---|---|---|
| IF | 547.40 | .08 | 7.05 |
| IF | 554.50 | .08 | 7.05 |
| IF | 561.60 | .08 | 7.05 |
| IF | 568.60 | .08 | 7.05 |
| IF | 575.70 | .08 | 7.05 |
| IF | 582.80 | .08 | 7.05 |
| IF | 589.80 | .08 | 7.05 |
| IF | 596.90 | .08 | 7.05 |
| IF | 603.90 | .08 | 7.05 |
| IF | 611.00 | .08 | 7.05 |
| IF | 618.10 | .08 | 7.05 |
| IF | 625.10 | .08 | 7.05 |
| IF | 632.20 | .08 | 7.05 |
| IF | 639.30 | .08 | 7.05 |
| IF | 646.30 | .08 | 7.05 |
| IF | 653.40 | .08 | 7.05 |
| IF | 660.40 | .08 | 7.05 |
| IF | 667.50 | .08 | 7.05 |
| IF | 674.00 | .08 | 7.05 |

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 |
|---|---|---|
| 167.00 | 6.30 | 10.10 |
| 178.00 | 6.30 | 9.90 |
| 204.00 | 6.30 | 9.50 |
| 208.00 | 6.30 | 9.40 |
| 307.00 | 6.30 | 7.90 |
| 327.00 | 6.30 | 7.60 |

| | | |
|---|---|---|
| 338.00 | 6.30 | 7.40 |
| 351.00 | 6.30 | 7.30 |
| 373.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 140.05 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 31.14 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 66.24 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 94.54 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 139.29 | 12.50 | | |
| | | V12 EL=12 | 60 |
| 140.05 | 12.40 | | |
| | | A 4 EL=12 | 20 |
| 146.87 | 11.50 | | |
| | | A 4 EL=11 | 20 |
| 151.00 | 10.96 | | |
| | | A 4 EL=11 | 20 |
| 167.00 | 10.86 | | |
| | | A 4 EL=11 | 20 |
| 178.00 | 10.66 | | |
| | | A 4 EL=11 | 20 |
| 193.41 | 10.50 | | |

| | | | |
|---|---|---|---|
| | | A 4 EL=10 | 20 |
| 204.00 | 10.39 | | |
| | | A 4 EL=10 | 20 |
| 208.00 | 10.15 | | |
| | | A 4 EL=10 | 20 |
| 304.73 | 9.50 | | |
| | | A 4 EL= 9 | 20 |
| 307.00 | 9.48 | | |
| | | A 4 EL= 9 | 20 |
| 327.00 | 8.59 | | |
| | | A 4 EL= 9 | 20 |
| 331.11 | 8.50 | | |
| | | A 4 EL= 8 | 20 |
| 338.00 | 8.35 | | |
| | | A 4 EL= 8 | 20 |
| 351.00 | 8.20 | | |
| | | A 4 EL= 8 | 20 |
| 373.00 | 8.01 | | |
| | | A 4 EL= 8 | 20 |
| 500.62 | 7.50 | | |
| | | A 4 EL= 7 | 20 |
| 674.00 | 7.05 | | |

A4 FL=10

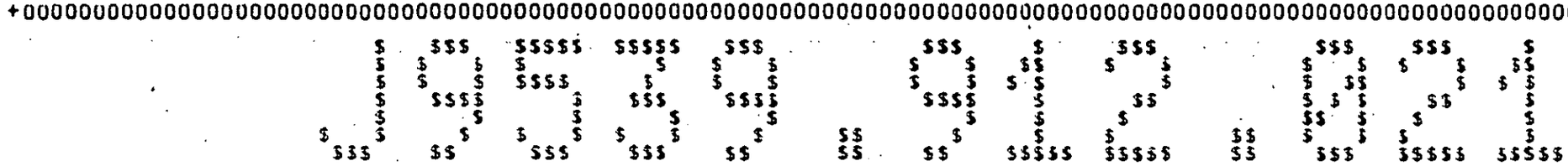
A4 FL= 9

A4 FL= 8

MARSH

A1 TO F

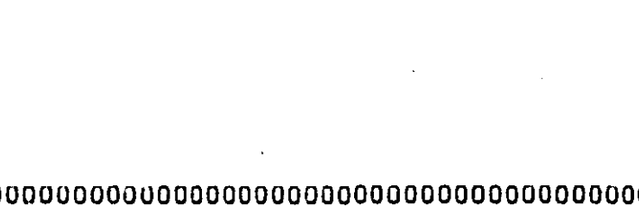
ZONE TERMINATED AT END OF TRANSECT



DEST=J9539.912.021 USER=J9539.912.021 QUEUE=LPT DEVICE=@LP81

PAGES=11

PATH=:UDD:J9539.912.021:COAST3.WHAFIS.ONS8.RESULTS



Greenhorne & O'Mara Inc-MV8000/A

AOS/VS REV 06.04
AOS/VS XLPT REV 05.00

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 9.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 1.000 | -.700 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 19.900 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 81.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 104.000 | 4.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 108.000 | 6.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 126.000 | 8.700 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 136.000 | 5.600 | .000 | 10.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 147.000 | 4.000 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 155.000 | 4.000 | .000 | 10.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 223.000 | 3.100 | .000 | 9.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 395.000 | 2.000 | .000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 453.000 | 2.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 486.700 | 2.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 489.600 | 3.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 492.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 495.800 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 502.000 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 508.300 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 514.500 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 520.700 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 526.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 533.200 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 539.400 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 545.600 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 551.800 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 558.000 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 564.300 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 570.500 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 576.700 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 582.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 589.100 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 595.400 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 601.600 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 1.000 | -.700 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 19.900 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 81.000 | 2.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 104.000 | 4.300 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 108.000 | 6.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 126.000 | 8.700 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 136.000 | 5.600 | .000 | 10.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 147.000 | 4.000 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 155.000 | 4.000 | .000 | 10.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 223.000 | 3.100 | .000 | 9.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 395.000 | 2.000 | .000 | 7.600 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 453.000 | 2.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 486.700 | 2.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 489.600 | 3.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 492.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 495.300 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 502.000 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 508.300 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 514.500 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 520.700 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 526.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 533.200 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 539.400 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 545.600 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 551.800 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 558.000 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 564.300 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 570.500 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 576.700 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 582.900 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 589.100 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 595.400 | 5.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 601.600 | 5.900 | .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 | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 1.00 | 8.03 | 15.92 |
| OF | 19.90 | 8.03 | 15.92 |
| IF | 81.00 | 6.32 | 14.72 |
| IF | 104.00 | 4.68 | 13.58 |
| IF | 108.00 | 3.28 | 12.59 |
| IF | 126.00 | 1.25 | 11.17 |
| IF | 136.00 | 1.25 | 11.12 |
| IF | 147.00 | 1.25 | 11.03 |
| IF | 155.00 | 1.26 | 10.93 |
| IF | 223.00 | 1.30 | 10.56 |
| IF | 395.00 | 1.37 | 9.41 |
| IF | 453.00 | 1.39 | 8.27 |
| IF | 486.70 | 1.40 | 7.98 |
| IF | 489.60 | 1.40 | 7.98 |
| IF | 492.90 | .86 | 7.60 |
| IF | 495.80 | .86 | 7.60 |
| IF | 502.00 | .86 | 7.60 |
| IF | 508.30 | .86 | 7.60 |
| IF | 514.50 | .86 | 7.60 |
| IF | 520.70 | .86 | 7.60 |
| IF | 526.90 | .86 | 7.60 |
| IF | 533.20 | .86 | 7.60 |
| IF | 539.40 | .86 | 7.60 |
| IF | 545.60 | .86 | 7.60 |
| IF | 551.80 | .86 | 7.60 |
| IF | 558.00 | .86 | 7.60 |
| IF | 564.30 | .86 | 7.60 |

| | | | |
|---|---|---|---|
| IF | 570.50 | .86 | 7.60 |
| IF | 576.70 | .86 | 7.60 |
| IF | 582.90 | .86 | 7.60 |
| IF | 589.10 | .86 | 7.60 |
| IF | 595.40 | .86 | 7.60 |
| IF | 601.60 | .86 | 7.60 |

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = .86 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 |
|---|---|---|
| 136.00 | 6.30 | 10.20 |
| 147.00 | 6.30 | 10.10 |
| 155.00 | 6.30 | 10.00 |
| 223.00 | 6.30 | 9.30 |
| 395.00 | 6.30 | 7.60 |
| 453.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 110.45 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 41.46 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 85.47 | 14.50 | | |

| | | | |
|---|---|---|---|
| | 104.31 | 13.50 | V12 EL=14 60 |
| | 109.18 | 12.50 | V12 EL=13 60 |
| | 110.45 | 12.40 | V12 EL=12 60 |
| | 121.86 | 11.50 | A 6 EL=12 30 |
| | 126.00 | 11.17 | A 6 EL=11 30 |
| | 136.00 | 11.12 | A 6 EL=11 30 |
| | 147.00 | 11.03 | A 6 EL=11 30 |
| ROAD ON GRADE → | 155.00 | 10.93 | A 6 EL=11 30 |
| | 223.00 | 10.56 | A 6 EL=11 30 |
| | 231.56 | 10.50 | A 6 EL=10 30 |
| | 381.37 | 9.50 | A 6 EL= 9 30 |
| | 395.00 | 9.41 | A 6 EL= 9 30 |
| | 441.43 | 8.50 | A 6 EL= 8 30 |
| NC 210 → | 453.00 | 8.27 | A 6 EL= 8 30 |
| | 601.60 | 7.60 | |

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 10.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 9.000 | -.600 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 24.300 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 73.000 | 2.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 92.000 | 4.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 102.000 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 115.000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 141.000 | 9.900 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 154.000 | 7.600 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 179.000 | 4.700 | .000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 199.000 | 3.500 | .000 | 9.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 216.000 | 3.300 | .000 | 8.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 257.200 | 2.800 | .000 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 263.000 | 6.500 | .000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 264.600 | 7.500 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 270.400 | 7.400 | .000 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 462.000 | 5.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 504.000 | 5.600 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 674.000 | 5.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .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 |
| OF | END STATION 9.000 | END ELEVATION -.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 24.300 | 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 73.000 | 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 92.000 | END ELEVATION 4.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 102.000 | 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 115.000 | END ELEVATION 9.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 141.000 | END ELEVATION 9.900 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 154.000 | END ELEVATION 7.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 179.000 | END ELEVATION 4.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 199.000 | END ELEVATION 3.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 216.000 | END ELEVATION 3.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 8.700 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |


64

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 257.200 | 2.800 | .000 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 263.000 | 6.500 | .000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 264.600 | 7.500 | .000 | 7.500 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 270.400 | 7.400 | .000 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 462.000 | 5.100 | .000 | 7.100 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 504.000 | 5.600 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| IF | 674.000 | 5.600 | .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 | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 9.00 | 8.03 | 15.92 |
| OF | 24.30 | 8.03 | 15.92 |
| IF | 73.00 | 6.40 | 14.78 |
| IF | 92.00 | 4.60 | 13.52 |
| IF | 102.00 | 2.96 | 12.37 |
| IF | 115.00 | .62 | 10.74 |
| IF | 141.00 | .31 | 10.52 |
| IF | 154.00 | .31 | 10.42 |
| IF | 179.00 | .35 | 10.04 |
| IF | 199.00 | .38 | 9.52 |
| IF | 216.00 | .42 | 9.14 |
| IF | 257.20 | .49 | 8.60 |
| IF | 263.00 | .50 | 8.10 |
| IF | 264.60 | .00 | 7.60 |
| AS | 270.40 | .00 | 7.40 |
| IF | 462.00 | .07 | 7.30 |
| IF | 504.00 | .09 | 7.12 |
| IF | 674.00 | .18 | 7.13 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

BETWEEN 264.60 AND 270.40

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 154.00 | 6.30 | 10.10 |
| 179.00 | 6.30 | 9.50 |
| 199.00 | 6.30 | 9.00 |

| | | |
|---|---|---|
| 216.00 | 6.30 | 8.70 |
| 257.20 | 6.30 | 7.80 |
| 263.00 | 6.30 | 7.70 |
| 264.60 | 6.30 | 7.50 |
| 270.40 | 6.30 | 7.40 |
| 462.00 | 6.30 | 7.10 |
| 504.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 101.78 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | | FHF | |
|---|---|---|---|---|---|
| .00 | 15.92 | | | | |
| | | V12 | EL=16 | 60 | V12 EL=16 |
| 42.30 | 15.50 | | | | |
| | | V12 | EL=15 | 60 | V12 EL 15 |
| 77.19 | 14.50 | | | | |
| | | V12 | EL=14 | 60 | |
| 92.19 | 13.50 | | | | |
| | | V12 | EL=13 | 60 | V12 EL 14 |
| 100.91 | 12.50 | | | | |
| | | V12 | EL=12 | 60 | |
| 101.78 | 12.40 | | | | |
| | | A 3 | EL=12 | 15 | |
| 108.94 | 11.50 | | | | |
| | | A 3 | EL=11 | 15 | A 4 |
| 141.00 | 10.52 | | | | |
| | | A 3 | EL=11 | 15 | |
| 143.42 | 10.50 | | | | |

| | | | |
|---|---|---|---|
| | 154.00 | 10.42 | A 3 EL=10 15 |
| | 179.00 | 10.04 | A 3 EL=10 15 |
| | 199.00 | 9.52 | A 3 EL=10 15 |
| | 199.83 | 9.50 | A 3 EL=10 15 |
| | 216.00 | 9.14 | A 3 EL= 9 15 |
| | 257.20 | 8.60 | A 3 EL= 9 15 |
| | 258.32 | 8.50 | A 3 EL= 9 15 |
| | 263.00 | 8.10 | A 3 EL= 8 15 |
| | 264.60 | 7.60 | A 3 EL= 8 15 |
| | 270.40 | 7.40 | A 3 EL= 7 15 |
| | 462.00 | 7.30 | A 3 EL= 7 15 |
| NC 210 ⟶ | 504.00 | 7.12 | A 3 EL= 7 15 |
| | 674.00 | 7.13 | |

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 11.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 12.000 | -.700 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 34.100 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 112.000 | 2.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 141.000 | 4.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 147.000 | 4.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 165.000 | 6.600 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 177.000 | 6.100 | .000 | 10.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 195.000 | 3.400 | .000 | 10.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 212.000 | 3.200 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 264.000 | 3.400 | .000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 306.000 | 3.400 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 351.000 | 3.400 | .000 | 8.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 383.000 | 3.200 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 407.100 | 3.100 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 410.900 | 5.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 415.200 | 8.200 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 418.900 | 8.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 426.900 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 434.800 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 442.600 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 450.300 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 458.000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 465.700 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 571.000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| AS | 574.000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .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 |
| OF | END STATION 12.000 | END ELEVATION -.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 34.100 | 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 112.000 | END ELEVATION 2.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 141.000 | END ELEVATION 4.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 147.000 | 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 165.000 | END ELEVATION 6.600 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 177.000 | END ELEVATION 6.100 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.200 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 195.000 | END ELEVATION 3.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 212.000 | END ELEVATION 3.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 264.000 | END ELEVATION 3.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.500 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 306.000 | END ELEVATION 3.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |


64

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 351.000 | 3.400 | .000 | 8.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 383.000 | 3.200 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 407.100 | 3.100 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 410.900 | 5.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 415.200 | 8.200 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 418.900 | 8.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 426.900 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 434.800 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 442.600 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 450.300 | 7.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 458.000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 465.700 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| AS | 571.000 | 7.200 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
|---|---|---|---|---|---|---|---|---|---|---|
| AS | 674.000 | 7.200 | .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 | | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 12.00 | 8.03 | 15.92 |
| OF | 34.10 | 8.03 | 15.92 |
| IF | 112.00 | 6.16 | 14.61 |
| IF | 141.00 | 4.45 | 13.41 |
| IF | 147.00 | 4.21 | 13.25 |
| IF | 165.00 | 2.89 | 12.32 |
| IF | 177.00 | 2.89 | 12.27 |
| IF | 195.00 | 2.89 | 12.12 |
| IF | 212.00 | 2.89 | 11.97 |
| IF | 264.00 | 2.89 | 11.72 |
| IF | 306.00 | 2.89 | 11.32 |
| IF | 351.00 | 2.89 | 10.92 |
| IF | 383.00 | 2.89 | 10.62 |
| IF | 407.10 | 2.89 | 10.42 |
| IF | 410.90 | 2.18 | 9.83 |
| IF | 415.20 | .00 | 8.25 |
| AS | 418.90 | .00 | 8.10 |
| AS | 426.90 | .00 | 8.00 |
| AS | 434.80 | .00 | 7.90 |
| AS | 442.60 | .00 | 7.90 |
| AS | 450.30 | .00 | 7.80 |
| AS | 458.00 | .00 | 7.70 |
| AS | 465.70 | .00 | 7.70 |
| AS | 571.00 | .00 | 7.20 |
| AS | 674.00 | .00 | 7.20 |

PART3 LOCATION OF AREAS ABOVE 100-YEAR SURGE

| | | | |
|---|---|---|---|
| BETWEEN | 415.20 | AND | 418.90 |
| BETWEEN | 418.90 | AND | 426.90 |
| BETWEEN | 426.90 | AND | 434.80 |
| BETWEEN | 434.80 | AND | 442.60 |
| BETWEEN | 442.60 | AND | 450.30 |
| BETWEEN | 450.30 | AND | 458.00 |
| BETWEEN | 458.00 | AND | 465.70 |
| BETWEEN | 465.70 | AND | 571.00 |
| BETWEEN | 571.00 | AND | 674.00 |

PART4 LOCATION OF SURGE CHANGES

| STATION | 10-YEAR SURGE | 100-YEAR SURGE |
|---|---|---|
| 177.00 | 6.30 | 10.20 |
| 195.00 | 6.30 | 10.00 |
| 212.00 | 6.30 | 9.90 |
| 264.00 | 6.30 | 9.50 |
| 306.00 | 6.30 | 9.10 |
| 351.00 | 6.30 | 8.70 |
| 383.00 | 6.30 | 8.50 |
| 407.10 | 6.30 | 8.30 |
| 415.20 | 6.30 | 8.20 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 163.45 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF | |
|---|---|---|---|---|
| .00 | 15.92 | | | |
| | | V12 EL=16 | 60 | V12 EL=16 |
| 59.29 | 15.50 | | | |

| | | | |
|---|---|---|---|
| | 114.74 | 14.50 | V12 EL=15 60 |
| | 138.88 | 13.50 | V12 EL=14 60 |
| | 161.51 | 12.50 | V12 EL=13 60 |
| | 163.45 | 12.40 | V12 EL=12 60 |
| | 165.00 | 12.32 | A 8 EL=12 40 |
| | 177.00 | 12.27 | A 8 EL=12 40 |
| | 195.00 | 12.12 | A 8 EL=12 40 |
| | >212.00 | 11.97 | A 8 EL=12 40 |
| | 264.00 | 11.72 | A 8 EL=12 40 |
| | 287.39 | 11.50 | A 8 EL=11 40 |
| | 306.00 | 11.32 | A 8 EL=11 40 |
| | 351.00 | 10.92 | A 8 EL=11 40 |
| | 383.00 | 10.62 | A 8 EL=11 40 |
| | 397.82 | 10.50 | A 8 EL=10 40 |
| | 407.10 | 10.42 | A 8 EL=10 40 |

V12 EL=15

V12 EL=14

14 EL=12

14 EL=11

14 EL=10

FINAL

V12 EL=14

A8 EL=12

| | | |
|---|---|---|
| | 410.90 | 9.83 |
| | 411.80 | 9.50 |
| | 414.52 | 8.50 |
| | 415.20 | 8.25 |
| | 418.90 | 8.10 |
| | 426.90 | 8.00 |
| | 434.80 | 7.90 |
| | 442.60 | 7.90 |
| | 450.30 | 7.80 |
| NC 210 ——→ | 458.00 | 7.70 |
| | 465.70 | 7.70 |
| | 571.00 | 7.20 |
| | 674.00 | 7.20 |

A 8 EL=10 40

A 8 EL= 9 40

A 8 EL= 8 40

ZONE TERMINATED AT END OF TRANSECT

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 12.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 5.000 | -.700 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 29.300 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 117.000 | 2.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 149.000 | 4.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 156.000 | 5.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 165.000 | 8.700 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 191.000 | 5.800 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 214.000 | 4.300 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 243.000 | 3.800 | .000 | 9.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 281.000 | 2.500 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 311.000 | 2.200 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 340.200 | 2.300 | .000 | 8.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 341.000 | 2.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 346.800 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 347.700 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 527.000 | 5.700 | .000 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 581.000 | 6.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 621.000 | 6.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 574.000 | 6.400 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .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 |
| OF | END STATION 5.000 | END ELEVATION -.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | 1.000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| OF | END STATION 29.300 | 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 117.000 | END ELEVATION 2.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 149.000 | END ELEVATION 4.400 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 156.000 | END ELEVATION 5.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 165.000 | END ELEVATION 8.700 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.300 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 191.000 | END ELEVATION 5.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 10.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 214.000 | END ELEVATION 4.300 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 243.000 | END ELEVATION 3.800 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.700 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 281.000 | END ELEVATION 2.500 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.400 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| IF | END STATION 311.000 | END ELEVATION 2.200 | NEW SURGE 10-YEAR .000 | NEW SURGE 100-YEAR 9.100 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |

# ADDITIONAL INFORMATION

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 340.200 | 2.300 | .000 | 8.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 341.000 | 2.800 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 346.800 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 347.700 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 527.000 | 5.700 | .000 | 7.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 581.000 | 6.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 621.000 | 6.100 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 674.000 | 6.400 | .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 | WAVE HEIGHT | WAVE ELEVATION |
|---|---|---|---|
| IE | .00 | 8.03 | 15.92 |
| OF | 5.00 | 8.03 | 15.92 |
| OF | 29.30 | 8.03 | 15.92 |
| IF | 117.00 | 5.93 | 14.45 |
| IF | 149.00 | 4.60 | 13.52 |
| IF | 156.00 | 3.59 | 12.81 |
| IF | 165.00 | 1.25 | 11.17 |
| IF | 191.00 | 1.25 | 11.07 |
| IF | 214.00 | 1.26 | 10.88 |
| IF | 243.00 | 1.27 | 10.69 |
| IF | 281.00 | 1.30 | 10.46 |
| IF | 311.00 | 1.33 | 10.18 |
| IF | 340.20 | 1.35 | 9.95 |
| IF | 341.00 | 1.35 | 9.85 |
| IF | 346.80 | 1.35 | 9.85 |
| IF | 347.70 | 1.35 | 9.85 |
| IF | 527.00 | 1.33 | 9.08 |
| IF | 581.00 | .78 | 7.75 |
| IF | 621.00 | .70 | 7.49 |
| IF | 674.00 | .47 | 7.33 |

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 |
|---|---|---|
| 191.00 | 6.30 | 10.10 |
| 214.00 | 6.30 | 9.90 |

| | | |
|---|---|---|
| 243.00 | 6.30 | 9.70 |
| 281.00 | 6.30 | 9.40 |
| 311.00 | 6.30 | 9.10 |
| 340.20 | 6.30 | 8.90 |
| 527.00 | 6.30 | 7.40 |
| 581.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 158.26 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 54.51 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 114.00 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 149.21 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 157.71 | 12.50 | | |
| | | V12 EL=12 | 60 |
| 158.26 | 12.40 | | |
| | | A 6 EL=12 | 30 |
| 163.21 | 11.50 | | |
| | | A 6 EL=11 | 30 |
| 165.00 | 11.17 | | |
| | | A 6 EL=11 | 30 |
| 191.00 | 11.07 | | |
| | | A 6 EL=11 | 30 |

V12 EL=16

V12 EL=15

V12 EL=13

A 6 EL=12

| | | | |
|---|---|---|---|
| 214.00 | 10.88 | | |
| | | A 6 EL=11 | 30 |
| 243.00 | 10.69 | | |
| | | A 6 EL=11 | 30 |
| 274.05 | 10.50 | | |
| | | A 6 EL=10 | 30 |
| 281.00 | 10.46 | | |
| | | A 6 EL=10 | 30 |
| 311.00 | 10.18 | | |
| | | A 6 EL=10 | 30 |
| 340.20 | 9.95 | | |
| | | A 6 EL=10 | 30 |
| 347.70 | 9.85 | | |
| | | A 6 EL=10 | 30 |
| 428.78 | 9.50 | | |
| | | A 6 EL= 9 | 30 |
| 527.00 | 9.08 | | |
| | | A 6 EL= 9 | 30 |
| 550.44 | 8.50 | | |
| | | A 6 EL= 8 | 30 |
| 581.00 | 7.75 | | |
| | | A 6 EL= 8 | 30 |
| 619.65 | 7.50 | | |
| | | A 6 EL= 7 | 30 |
| 674.00 | 7.33 | | |

ZONE TERMINATED AT END OF TRANSECT

A9 EL=11

A9 EL=10

A9 EL=9

MAICH
ZONE B

WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (VERSION 2.1)
TRANSECT NO. 13.000

PART1 INPUT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IE | .000 | -.800 | 24.000 | 6.300 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| OF | 11.000 | -.600 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| OF | 30.400 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| IF | 121.000 | 2.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 140.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 171.000 | 5.600 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 195.000 | 4.100 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 227.000 | 3.000 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 270.000 | 2.600 | .000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 288.000 | 3.000 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 320.000 | 2.500 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 360.000 | 2.400 | .000 | 8.800 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 394.900 | 2.400 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 398.200 | 4.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 401.800 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 405.000 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 411.900 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 418.700 | 6.600 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 425.500 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 432.300 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 439.100 | 6.600 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 445.800 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 452.600 | 6.500 | .000 | 8.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 459.300 | 6.500 | .000 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 466.000 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 472.800 | 6.600 | .000 | 7.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 509.000 | 6.900 | .000 | 7.700 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 592.000 | 6.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 670.000 | 4.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| IF | 674.000 | 4.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| ET | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 10.300 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 11.000 | -.600 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| OF | 30.400 | .000 | .000 | .000 | .000 | 1.000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 121.000 | 2.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 140.000 | 3.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 171.000 | 5.600 | .000 | 10.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 195.000 | 4.100 | .000 | 10.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 227.000 | 3.000 | .000 | 9.900 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 270.000 | 2.600 | .000 | 9.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 288.000 | 3.000 | .000 | 9.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 320.000 | 2.500 | .000 | 9.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 360.000 | 2.400 | .000 | 8.800 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 394.900 | 2.400 | .000 | 8.500 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 398.200 | 4.400 | .000 | 8.400 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 401.800 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 405.000 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 411.900 | 6.700 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 418.700 | 6.600 | .000 | 8.300 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 425.500 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 432.300 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 439.100 | 6.600 | .000 | 8.200 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 445.800 | 6.600 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 452.600 | 6.500 | .000 | 8.100 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 459.300 | 6.500 | .000 | 8.000 | .000 | .000 | .000 | .000 | .000 | .000 |
| | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | AVERAGE A-ZONES |
| IF | 466.000 | 6.500 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |

| | | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | IF | 472.800 | 6.600 | .000 | 7.900 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| | | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | |
| | IF | 509.000 | 6.900 | .000 | 7.700 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| | | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | |
| | IF | 592.000 | 6.000 | .000 | 7.000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| | | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | |
| | IF | 670.000 | 4.900 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | AVERAGE A-ZONES .000 |
| | | END STATION | END ELEVATION | NEW SURGE 10-YEAR | NEW SURGE 100-YEAR | | | | | | |
| | IF | 674.000 | 4.600 | .000 | .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 |
| OF | 11.00 | 8.03 | 15.92 |
| OF | 30.40 | 8.03 | 15.92 |
| IF | 121.00 | 6.01 | 14.50 |
| IF | 140.00 | 4.99 | 13.79 |
| IF | 171.00 | 3.67 | 12.87 |
| IF | 195.00 | 3.67 | 12.77 |
| IF | 227.00 | 3.67 | 12.57 |
| IF | 270.00 | 3.67 | 12.27 |
| IF | 288.00 | 3.67 | 12.02 |
| IF | 320.00 | 3.67 | 11.82 |
| IF | 360.00 | 3.67 | 11.52 |
| IF | 394.90 | 3.67 | 11.22 |
| IF | 398.20 | 3.12 | 10.63 |
| IF | 401.80 | 1.33 | 9.33 |
| IF | 405.00 | 1.33 | 9.33 |
| IF | 411.90 | 1.33 | 9.33 |
| IF | 418.70 | 1.33 | 9.28 |
| IF | 425.50 | 1.33 | 9.23 |
| IF | 432.30 | 1.33 | 9.23 |
| IF | 439.10 | 1.25 | 9.12 |
| IF | 445.80 | 1.25 | 9.07 |
| IF | 452.60 | 1.25 | 9.02 |
| IF | 459.30 | 1.17 | 8.87 |
| IF | 466.00 | 1.17 | 8.82 |
| IF | 472.80 | 1.01 | 8.66 |
| IF | 509.00 | .62 | 8.24 |
| IF | 592.00 | .62 | 7.79 |

| | | | |
|---|---|---|---|
| IF | 670.00 | .63 | 7.44 |
| IF | 674.00 | .63 | 7.44 |

TRANSMITTED WAVE HEIGHT AT LAST FETCH OR OBSTRUCTION = .63 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 |
|---|---|---|
| 195.00 | 6.30 | 10.10 |
| 227.00 | 6.30 | 9.90 |
| 270.00 | 6.30 | 9.50 |
| 288.00 | 6.30 | 9.40 |
| 320.00 | 6.30 | 9.10 |
| 360.00 | 6.30 | 8.80 |
| 394.90 | 6.30 | 8.50 |
| 398.20 | 6.30 | 8.40 |
| 418.70 | 6.30 | 8.30 |
| 439.10 | 6.30 | 8.20 |
| 452.60 | 6.30 | 8.10 |
| 459.30 | 6.30 | 8.00 |
| 472.80 | 6.30 | 7.90 |
| 509.00 | 6.30 | 7.70 |
| 592.00 | 6.30 | 7.00 |

PART5 LOCATION OF V ZONES

| STATION OF GUTTER | LOCATION OF ZONE |
|---|---|
| 398.44 | WINDWARD |

PART6 NUMBERED A ZONES AND V ZONES

| STATION OF GUTTER | ELEVATION | ZONE DESIGNATION | FHF |
|---|---|---|---|

| | | | |
|---|---|---|---|
| .00 | 15.92 | | |
| | | V12 EL=16 | 60 |
| 57.45 | 15.50 | | |
| | | V12 EL=15 | 60 |
| 121.11 | 14.50 | | |
| | | V12 EL=14 | 60 |
| 149.83 | 13.50 | | |
| | | V12 EL=13 | 60 |
| 171.00 | 12.87 | | |
| | | V12 EL=13 | 60 |
| 195.00 | 12.77 | | |
| | | V11 EL=13 | 55 |
| 227.00 | 12.57 | | |
| | | V11 EL=13 | 55 |
| 236.49 | 12.50 | | |
| | | V10 EL=12 | 50 |
| 270.00 | 12.27 | | |
| | | V 9 EL=12 | 45 |
| 288.00 | 12.02 | | |
| | | V 9 EL=12 | 45 |
| 320.00 | 11.82 | | |
| | | V 8 EL=12 | 40 |
| 360.00 | 11.52 | | |
| | | V 7 EL=12 | 35 |
| 361.88 | 11.50 | | |
| | | V 7 EL=11 | 35 |
| 394.90 | 11.22 | | |
| | | V 7 EL=11 | 35 |
| 398.20 | 10.63 | | |
| | | V 7 EL=11 | 35 |
| 398.44 | 10.50 | | |
| | | A 4 EL=11 | 20 |

V12 EL=16

V12 EL=15

V12 EL=14

V12 EL=13

V12 EL=12

V12 EL=11

| | | | |
|---|---|---|---|
| 398.57 | 10.50 | | |
| | | A 4 EL=10 | 20 |
| 401.33 | 9.50 | | |
| | | A 4 EL= 9 | 20 |
| 411.90 | 9.33 | | |
| | | A 4 EL= 9 | 20 |
| 418.70 | 9.28 | | |
| | | A 4 EL= 9 | 20 |
| 432.30 | 9.23 | | |
| | | A 4 EL= 9 | 20 |
| 439.10 | 9.12 | | |
| | | A 4 EL= 9 | 20 |
| 445.80 | 9.07 | | |
| | | A 4 EL= 9 | 20 |
| 452.60 | 9.02 | | |
| | | A 4 EL= 9 | 20 |
| 459.30 | 8.87 | | |
| | | A 4 EL= 9 | 20 |
| 466.00 | 8.82 | | |
| | | A 4 EL= 9 | 20 |
| 472.80 | 8.66 | | |
| | | A 4 EL= 9 | 20 |
| 486.48 | 8.50 | | |
| | | A 4 EL= 8 | 20 |
| 509.00 | 8.24 | | |
| | | A 4 EL= 8 | 20 |
| 592.00 | 7.79 | | |
| | | A 4 EL= 8 | 20 |
| 656.14 | 7.50 | | |
| | | A 4 EL= 7 | 20 |
| 674.00 | 7.44 | | |

A9 EL=10 A9 EL=10

A9 EL=1

A9 EL=8 A9 EL=

MATCH A9 EL=7 A9 EL=7