WAVE HEIGHT COMPUTATIONS FOR FLOOD INSURANCE STUDIES (WHAFIS VERSION 4.0G, 08_2007)
Executed on: Thu Feb 20 14:57:37 2020
Input file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-151.dat
Output file: C:\FEMA-TransectAnalysis\LOMR-TransectAnalysis-Harpswell\3_whafis\whafis4\CM-151.out

header

THIS IS A 100-YEAR CASE
THE FOLLOWING NON-DEFAULT WIND SPEEDS ARE BEING USED
WINDIF 56.14 WINDOF 56.14 WINDVH 60.00

PART1 INPUT

IE	0.000	-18.358	1.000	1.000	8.918	4.744	8.650	56.140	0.000	0.000
OF	3.300	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
OF	6.600	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
OF	9.800	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
OF	13.100	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
OF	16.400	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
OF	19.700	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.071	0.000
IF	337.900	4.579	0.000	8.930	0.000	0.000	0.000	0.000	0.068	0.000
IF	341.200	3.597	0.000	8.952	0.000	0.000	0.000	0.000	-0.253	0.000
IF	344.500	2.911	0.000	8.961	0.000	0.000	0.000	0.000	-0.156	0.000
IF	347.800	2.568	0.000	8.965	0.000	0.000	0.000	0.000	-0.119	0.000
IF	351.000	2.136	0.000	8.968	0.000	0.000	0.000	0.000	-0.069	0.000
IF	354.300	2.117	0.000	8.968	0.000	0.000	0.000	0.000	0.044	0.000
IF	357.600	2.424	0.000	8.967	0.000	0.000	0.000	0.000	0.095	0.000
IF	360.900	2.744	0.000	8.965	0.000	0.000	0.000	0.000	0.047	0.000
IF	364.200	2.737	0.000	8.965	0.000	0.000	0.000	0.000	0.028	0.000
IF	367.500	2.930	0.000	8.965	0.000	0.000	0.000	0.000	0.066	0.000
IF	370.700	3.168	0.000	8.963	0.000	0.000	0.000	0.000	0.054	0.000
IF	374.000	3.280	0.000	8.964	0.000	0.000	0.000	0.000	0.029	0.000
IF	377.300	3.361	0.000	8.964	0.000	0.000	0.000	0.000	0.025	0.000
IF	380.600	3.444	0.000	8.965	0.000	0.000	0.000	0.000	0.012	0.000
IF	383.900	3.440	0.000	8.966	0.000	0.000	0.000	0.000	-0.026	0.000
IF	387.100	3.275	0.000	8.969	0.000	0.000	0.000	0.000	-0.037	0.000
IF	390.400	3.201	0.000	8.971	0.000	0.000	0.000	0.000	-0.001	0.000
IF	393.700	3.272	0.000	8.971	0.000	0.000	0.000	0.000	0.109	0.000
IF	397.000	3.918	0.000	8.966	0.000	0.000	0.000	0.000	0.182	0.000
IF	400.300	4.475	0.000	8.962	0.000	0.000	0.000	0.000	0.096	0.000
IF	403.500	4.540	0.000	8.966	0.000	0.000	0.000	0.000	0.020	0.000
IF	406.800	4.604	0.000	8.970	0.000	0.000	0.000	0.000	0.061	0.000
IF	410.100	4.944	0.000	8.971	0.000	0.000	0.000	0.000	0.127	0.000
IF	413.400	5.443	0.000	8.972	0.000	0.000	0.000	0.000	0.186	0.000
IF	416.700	6.170	0.000	8.974	0.000	0.000	0.000	0.000	0.224	0.000
IF	419.900	6.900	0.000	8.983	0.000	0.000	0.000	0.000	0.225	0.000
IF	423.200	7.630	0.000	9.075	0.000	0.000	0.000	0.000	0.237	0.000
IF	426.500	8.468	0.000	9.292	0.000	0.000	0.000	0.000	0.309	0.000
IF	428.000	9.114	0.000	9.292	0.000	0.000	0.000	0.000	0.458	0.000
IF	428.300	9.292	0.000	9.292	0.000	0.000	0.000	0.000	0.591	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

1

	END STATION	END ELEVATION	FETCH LENGTH	SURGE ELEV 10-YEAR	SURGE ELEV 100-YEAR	INITIAL WAVE HEIGHT	INITIAL W. PERIOD		BOTTOM SLOPE	AVERAGE A-ZONES
IE	0.000	-18.358	1.000	1.000	8.918	4.744	8.650	56.140	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	3.300	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	6.600	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	9.800	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	13.100	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	16.400	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.000	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
OF	19.700	-18.358	0.000	8.918	0.000	0.000	0.000	0.000	0.071	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	337.900	4.579	0.000	8.930	0.000	0.000	0.000	0.000	0.068	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	341.200	3.597	0.000	8.952	0.000	0.000	0.000	0.000	-0.253	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	344.500	2.911	0.000	8.961	0.000	0.000	0.000	0.000	-0.156	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	347.800	2.568	0.000	8.965	0.000	0.000	0.000	0.000	-0.119	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	351.000	2.136	0.000	8.968	0.000	0.000	0.000	0.000	-0.069	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	354.300	2.117	0.000	8.968	0.000	0.000	0.000	0.000	0.044	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	357.600	2.424	0.000	8.967	0.000	0.000	0.000	0.000	0.095	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	360.900	2.744	0.000	8.965	0.000	0.000	0.000	0.000	0.047	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	364.200	2.737	0.000	8.965	0.000	0.000	0.000	0.000	0.028	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	367.500	2.930	0.000	8.965	0.000	0.000	0.000	0.000	0.066	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	370.700	3.168	0.000	8.963	0.000	0.000	0.000	0.000	0.054	0.000

	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	374.000	3.280	0.000	8.964	0.000	0.000	0.000	0.000	0.029	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	377.300	3.361	0.000	8.964	0.000	0.000	0.000	0.000	0.025	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	380.600	3.444	0.000	8.965	0.000	0.000	0.000	0.000	0.012	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	383.900	3.440	0.000	8.966	0.000	0.000	0.000	0.000	-0.026	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	387.100	3.275	0.000	8.969	0.000	0.000	0.000	0.000	-0.037	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	390.400	3.201	0.000	8.971	0.000	0.000	0.000	0.000	-0.001	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	393.700	3.272	0.000	8.971	0.000	0.000	0.000	0.000	0.109	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	397.000	3.918	0.000	8.966	0.000	0.000	0.000	0.000	0.182	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	400.300	4.475	0.000	8.962	0.000	0.000	0.000	0.000	0.096	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	403.500	4.540	0.000	8.966	0.000	0.000	0.000	0.000	0.020	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	406.800	4.604	0.000	8.970	0.000	0.000	0.000	0.000	0.061	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	410.100	4.944	0.000	8.971	0.000	0.000	0.000	0.000	0.127	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	413.400	5.443	0.000	8.972	0.000	0.000	0.000	0.000	0.186	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	416.700	6.170	0.000	8.974	0.000	0.000	0.000	0.000	0.224	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	419.900	6.900	0.000	8.983	0.000	0.000	0.000	0.000	0.225	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	423.200	7.630	0.000	9.075	0.000	0.000	0.000	0.000	0.237	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	426.500	8.468	0.000	9.292	0.000	0.000	0.000	0.000	0.309	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	428.000	9.114	0.000	9.292	0.000	0.000	0.000	0.000	0.458	0.000
	END STATION	END ELEVATION	NEW SURGE 10-YEAR	NEW SURGE 100-YEAR					BOTTOM SLOPE	AVERAGE A-ZONES
IF	428.300	9.292	0.000	9.292	0.000	0.000	0.000	0.000	0.591	0.000

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

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

1

PART2: CONTROLLING WAVE HEIGHTS, SPECTRAL PEAK WAVE PERIOD, AND WAVE CREST ELEVATIONS

	LOCATION	CONTROLLING WAVE HEIGHT	SPECTRAL PEAK WAVE PERIOD	WAVE CREST ELEVATION
IE	0.00	4.74	8.65	12.24
OF	3.30	4.75	8.65	12.24
OF	6.60	4.75	8.65	12.24
OF	9.80	4.75	8.65	12.24
OF	13.10	4.75	8.65	12.24
OF	16.40	4.75	8.65	12.24
OF	19.70	4.75	8.65	12.24
	146.98	5.30	8.65	12.63
	258.35	6.16	8.65	13.24
IF	337.90	3.33	8.65	11.26
IF	341.20	3.50	8.65	11.40
IF	344.50	3.61	8.65	11.48
IF	347.80	3.67	8.65	11.53
IF	351.00	3.68	8.65	11.55
IF	354.30	3.68	8.65	11.54
IF	357.60	3.69	8.65	11.55
IF	360.90	3.64	8.65	11.51
IF	364.20	3.64	8.65	11.51
IF	367.50	3.61	8.65	11.49
IF	370.70	3.57	8.65	11.47
IF	374.00	3.56	8.65	11.46
IF	377.30	3.55	8.65	11.45
IF	380.60	3.54	8.65	11.44
IF	383.90	3.54	8.65	11.45
IF	387.10	3.57	8.65	11.47
IF	390.40	3.58	8.65	11.48
IF	393.70	3.57	8.65	11.47
IF	397.00	3.48	8.65	11.40
IF	400.30	3.38	8.65	11.33
IF	403.50	3.37	8.65	11.33
IF	406.80	3.35	8.65	11.31
IF	410.10	3.09	8.65	11.13
IF	413.40	2.71	8.65	10.87
IF	416.70	2.16	8.65	10.49
IF	419.90	1.61	8.65	10.11
IF	423.20	1.12	8.65	9.86
IF	426.50	0.64	8.65	9.74

IF 428.00 0.14 8.65 9.39
IF 428.30 0.01 8.65 9.30

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
337.90	1.00	8.93
341.20	1.00	8.95
344.50	1.00	8.96
347.80	1.00	8.97
351.00	1.00	8.97
357.60	1.00	8.97
360.90	1.00	8.97
370.70	1.00	8.96
374.00	1.00	8.96
380.60	1.00	8.97
383.90	1.00	8.97
387.10	1.00	8.97
390.40	1.00	8.97
397.00	1.00	8.97
400.30	1.00	8.96
403.50	1.00	8.97
406.80	1.00	8.97
410.10	1.00	8.97
413.40	1.00	8.97
416.70	1.00	8.97
419.90	1.00	8.98
423.20	1.00	9.07
426.50	1.00	9.29

PART5 LOCATION OF V ZONES

STATION OF GUTTER	LOCATION OF ZONE
410.89	WINDWARD

PART6 NUMBERED A ZONES AND V ZONES

STATION OF GUTTER	ELEVATION	ZONE DESIGNATION		FHF
0.00	12.24	V22	EL=12	120
19.70	12.24	V22	EL=12	120
104.24	12.50	V22	EL=13	120
288.17	12.50	V22	EL=12	120
328.40	11.50	V22	EL=11	120
337.90	11.26	V22	EL=11	120
341.20	11.40	V22	EL=11	120
344.50	11.48	V22	EL=11	120
345.61	11.50	V22	EL=12	120
347.80	11.53	V22	EL=12	120
351.00	11.55	V22	EL=12	120
354.30	11.54	V22	EL=12	120
357.60	11.55	V22	EL=12	120
360.90	11.51	V22	EL=12	120
366.39	11.50	V22	EL=11	120
367.50	11.49	V22	EL=11	120
370.70	11.47	V22	EL=11	120
374.00	11.46	V22	EL=11	120
377.30	11.45	V22	EL=11	120
380.60	11.44	V22	EL=11	120
383.90	11.45	V22	EL=11	120
387.10	11.47	V22	EL=11	120
390.40	11.48	V22	EL=11	120
393.70	11.47	V22	EL=11	120
397.00	11.40	V22	EL=11	120
400.30	11.33	V22	EL=11	120
403.50	11.33	V22	EL=11	120
406.80	11.31	V22	EL=11	120
410.10	11.13	V22	EL=11	120
410.89	11.07	A18	EL=11	90
413.40	10.87	A18	EL=11	90
416.59	10.50	A18	EL=10	90
416.70	10.49	A18	EL=10	90
419.90	10.11	A18	EL=10	90

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                          423.20          9.86
                                                        A18  EL=10      90
                          426.50          9.74
                                                        A18  EL=10      90
                          427.53          9.50
                                                        A18  EL= 9      90
                          428.30          9.30
                               ZONE TERMINATED AT END OF TRANSECT
                               PART 7   POSTSCRIPT NOTES
                     PS#  1   START(426724.0833,4852590.9082)
                     PS#  2   END(426784.4463,4852732.7827)
-1.000000e+00
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