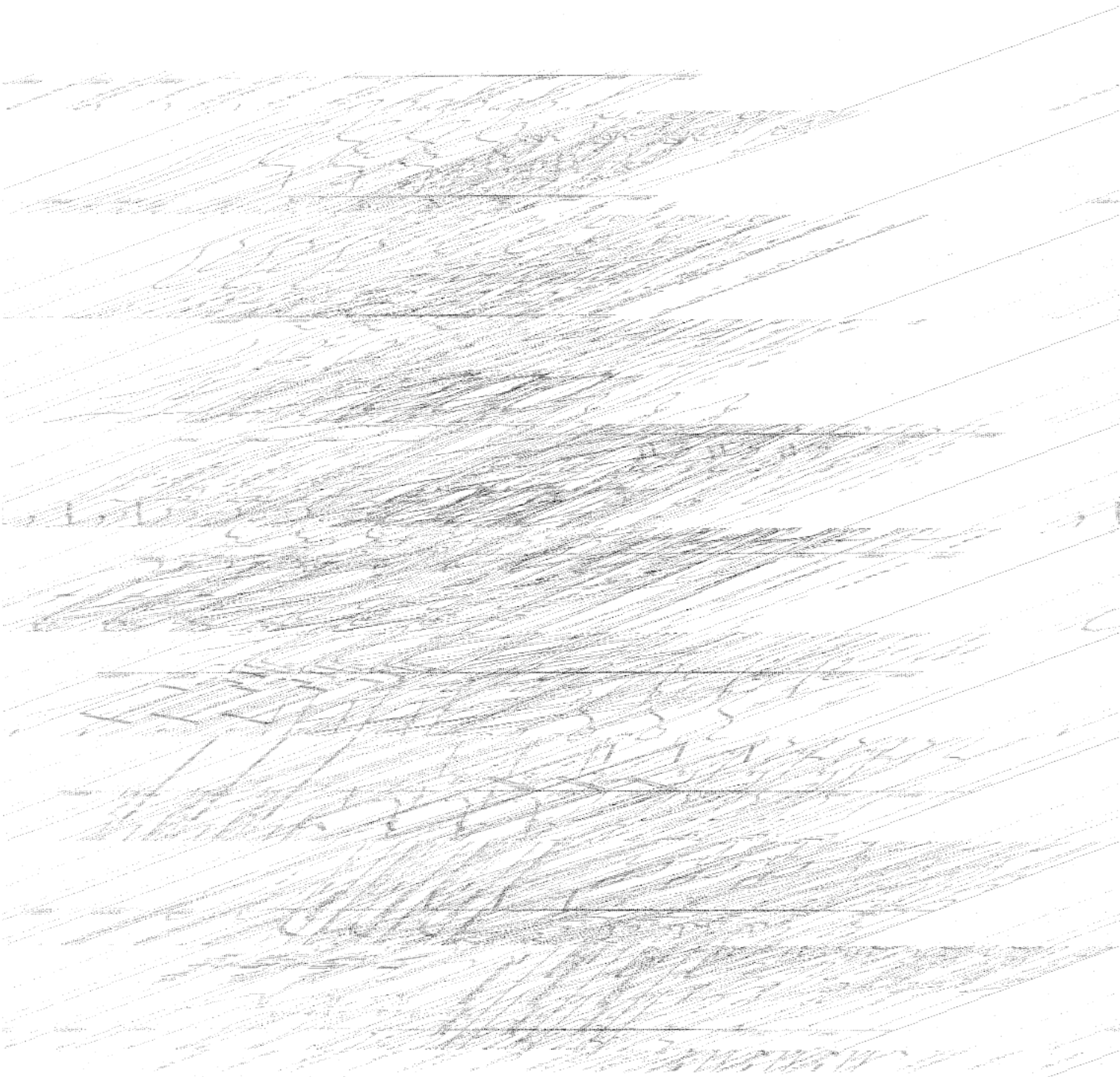
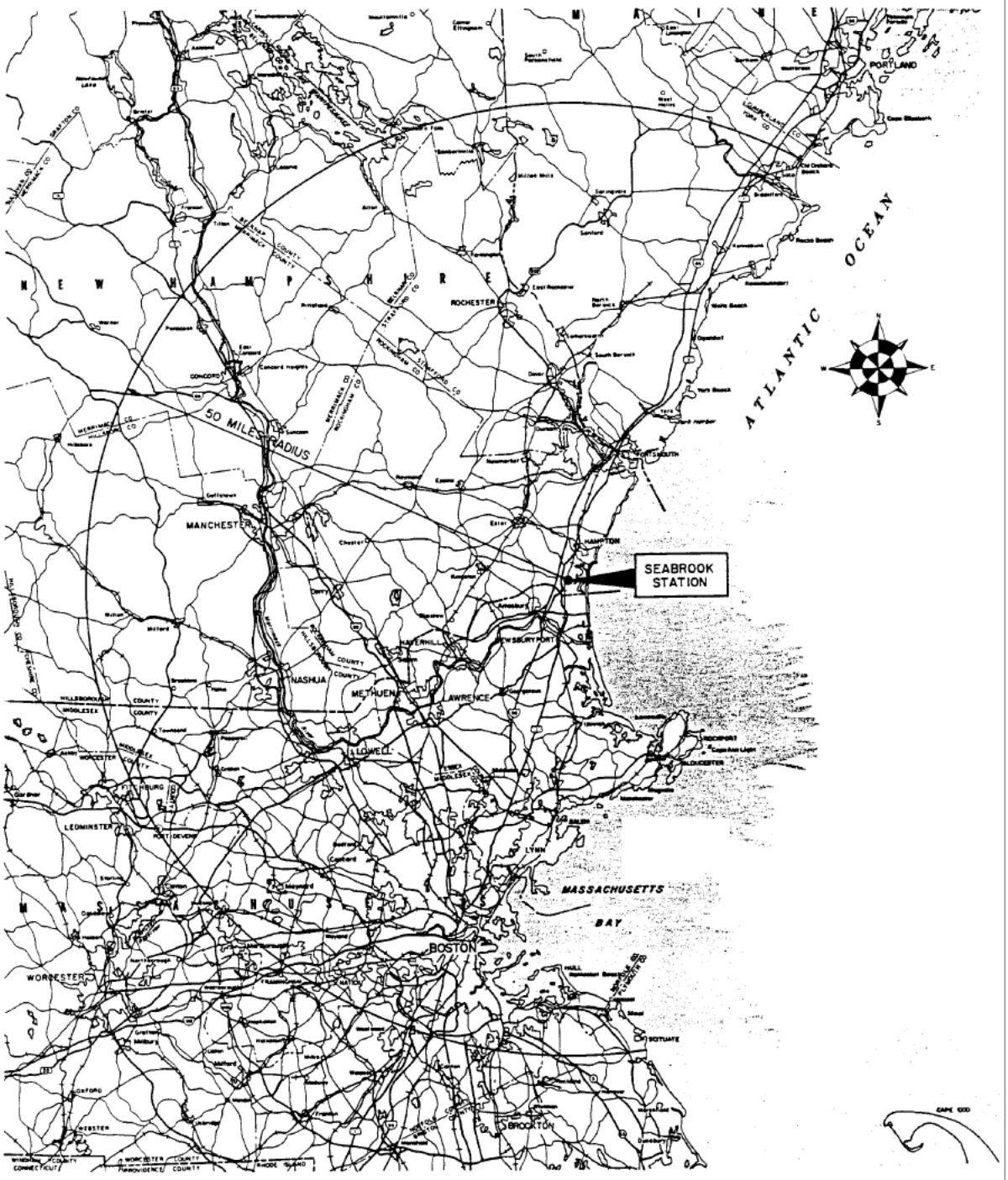
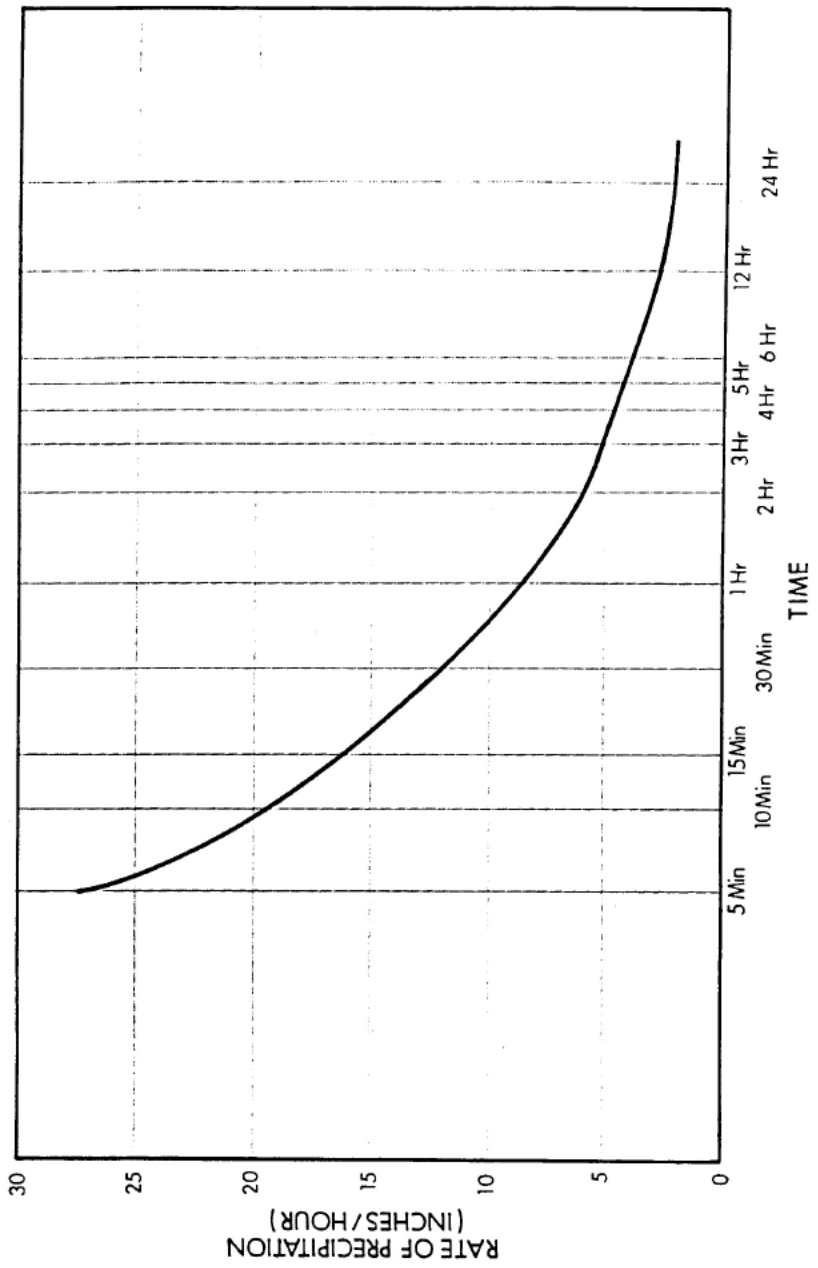


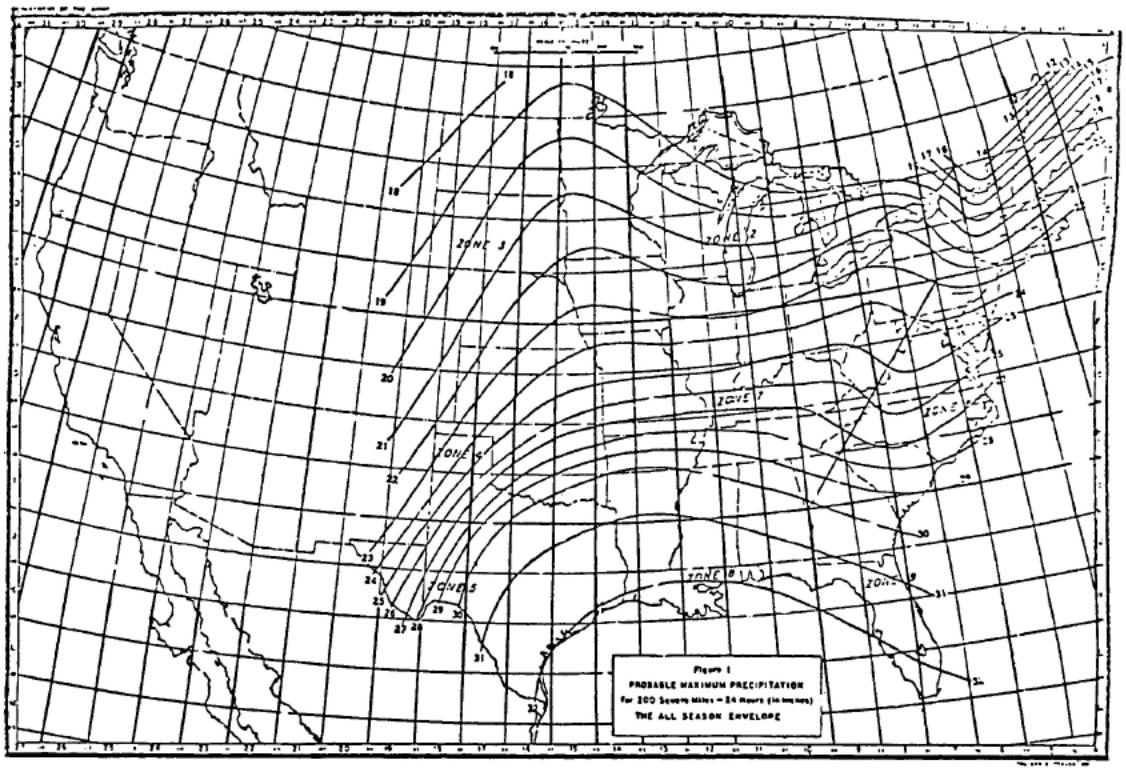
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Site Topography and Plot Plan	
	Rev. 12	Figure 2.4-1



SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Topographic Map Depicting Major Hydrologic Features of Region	
		Figure 2.4-2

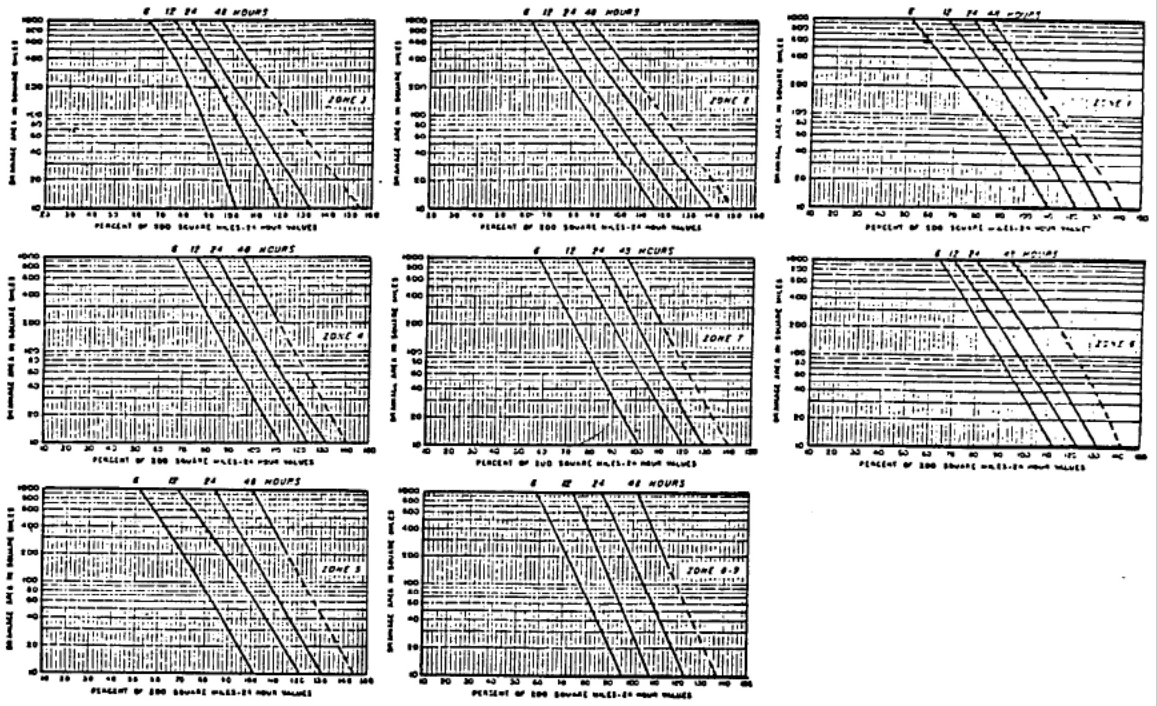


SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Time Incremental Distribution of Local PMP	
		Figure 2.4-3

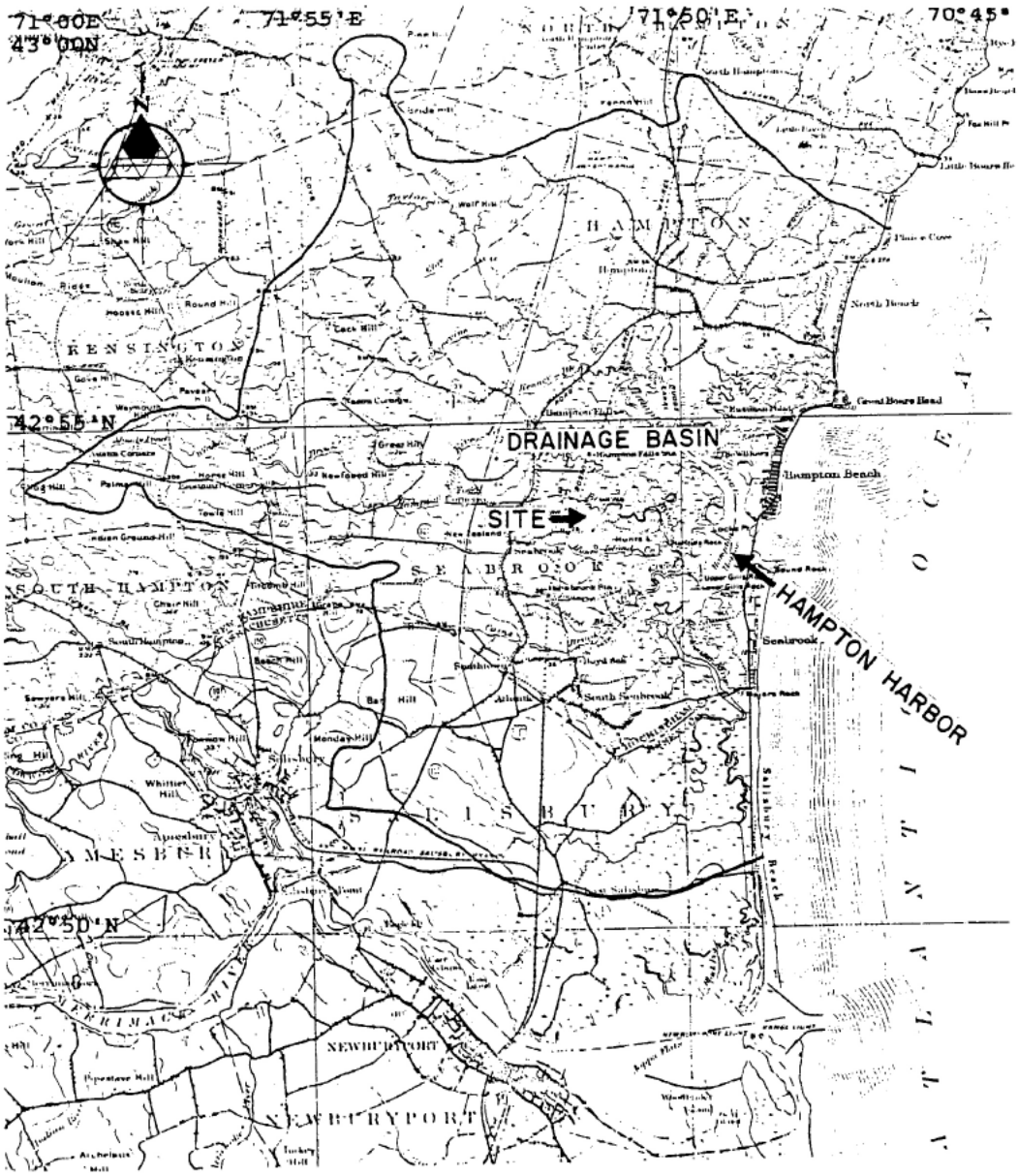


REFERENCE: Figure 1 of Riedel, J.T., J. F. Appleby, and R. W. Schloemer, April 1956, "Seasonal Variation of the Probable Maximum Precipitation East of the 105th Meridian for Areas from 10 to 1000 Square Miles and Durations of 6, 12, 24 and 48 Hours," Hydrometeorological Report No. 33, U. S. Department of Commerce.

SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Probable Maximum Precipitation for 200 Square Miles – 24 Hours (in Inches) – The All Season Envelope	
		Figure 2.4-4



REFERENCE: Figure 2 of Riedel, J.T., J. F. Appleby, and R. W. Schloemer, April 1956, "Seasonal Variation of the Probable Maximum Precipitation East of the 105th Meridian for Areas from 10 to 1000 Square Miles and Durations of 6, 12, 24 and 48 Hours," Hydrometeorological Report No. 33, U. S. Department of Commerce.

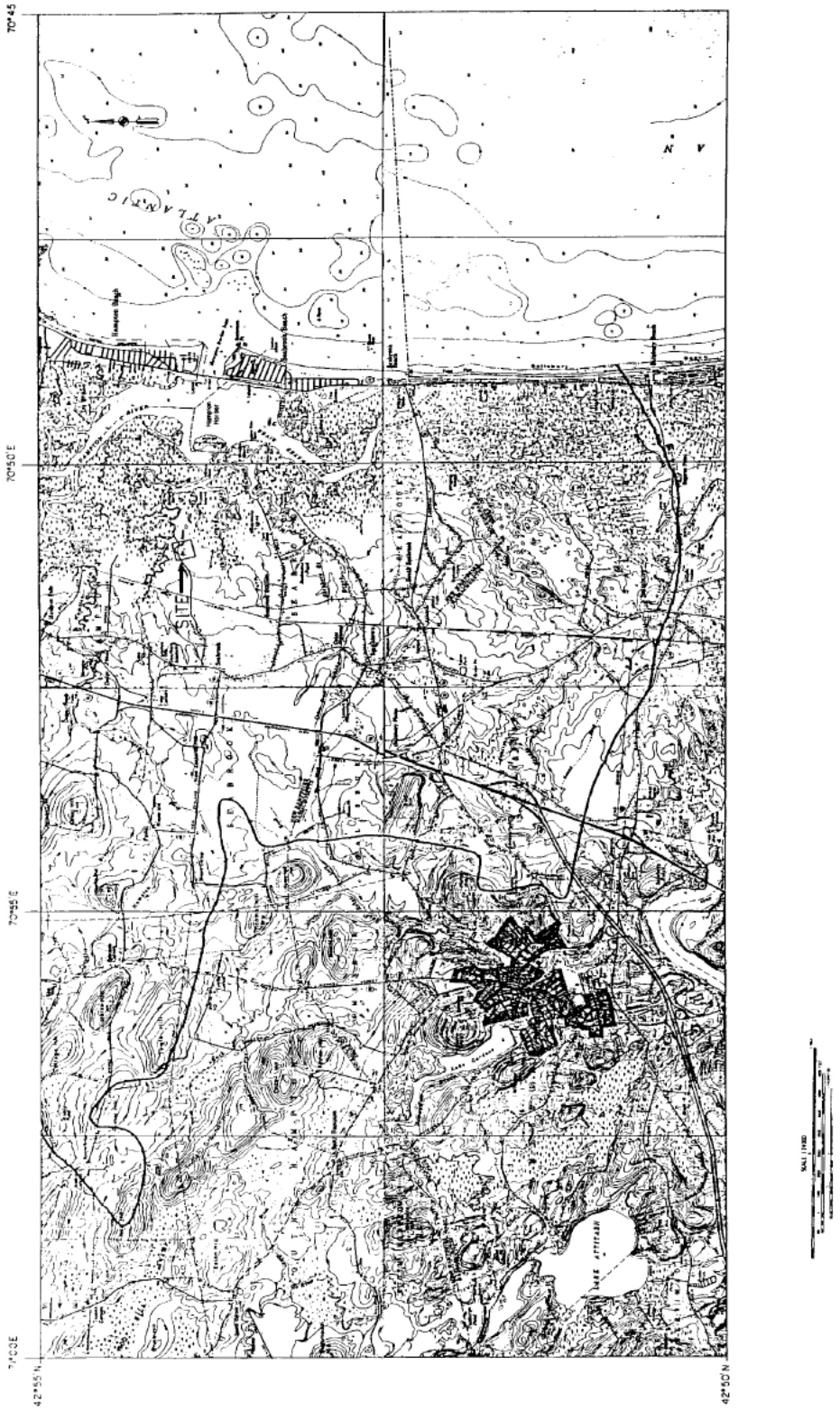


REFERENCE: Portion of USGS Topographic Map
Exeter, New Hampshire-Mass.

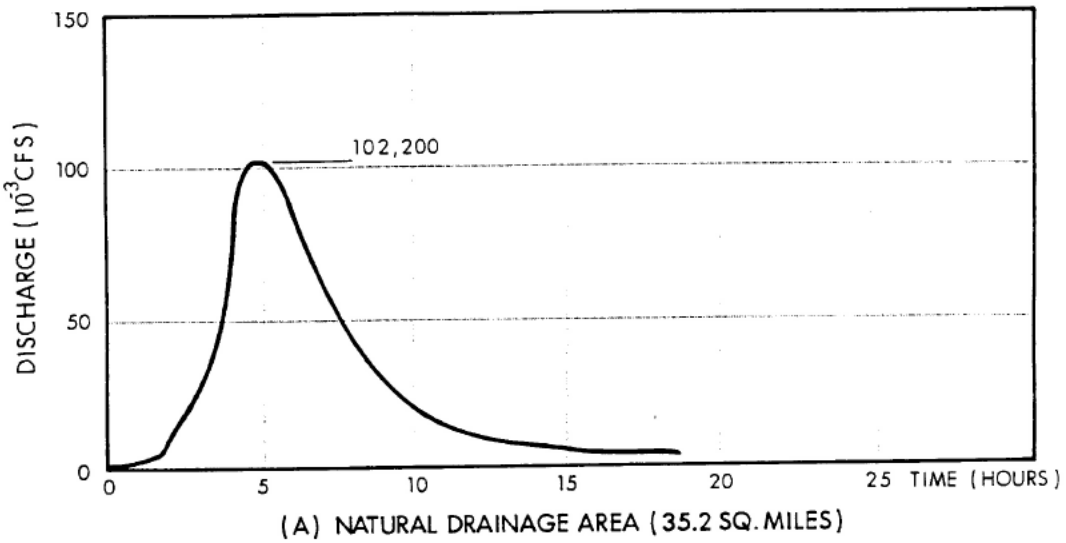
Scale: 1:62,500

SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Hampton Harbor Drainage Basin	
		Figure 2.4-6

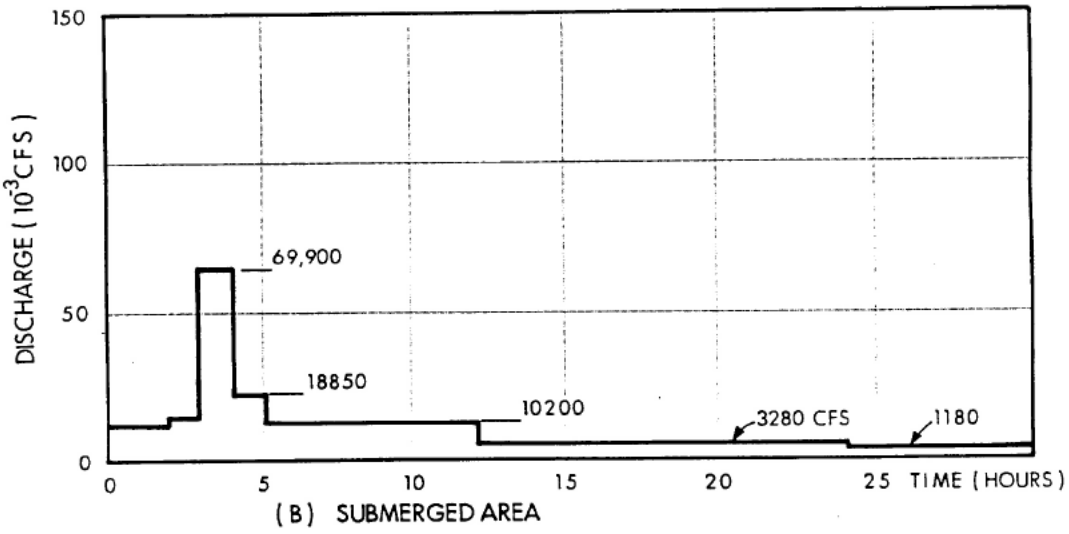
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Hampton Harbor Drainage Basin – Detailed Topography [2 Sheets]	
		Figure 2.4-7 Sh. 1 of 2



SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Hampton Harbor Drainage Basin – Detailed Topography [2 Sheets]	
		Figure 2.4-7 Sh. 2 of 2

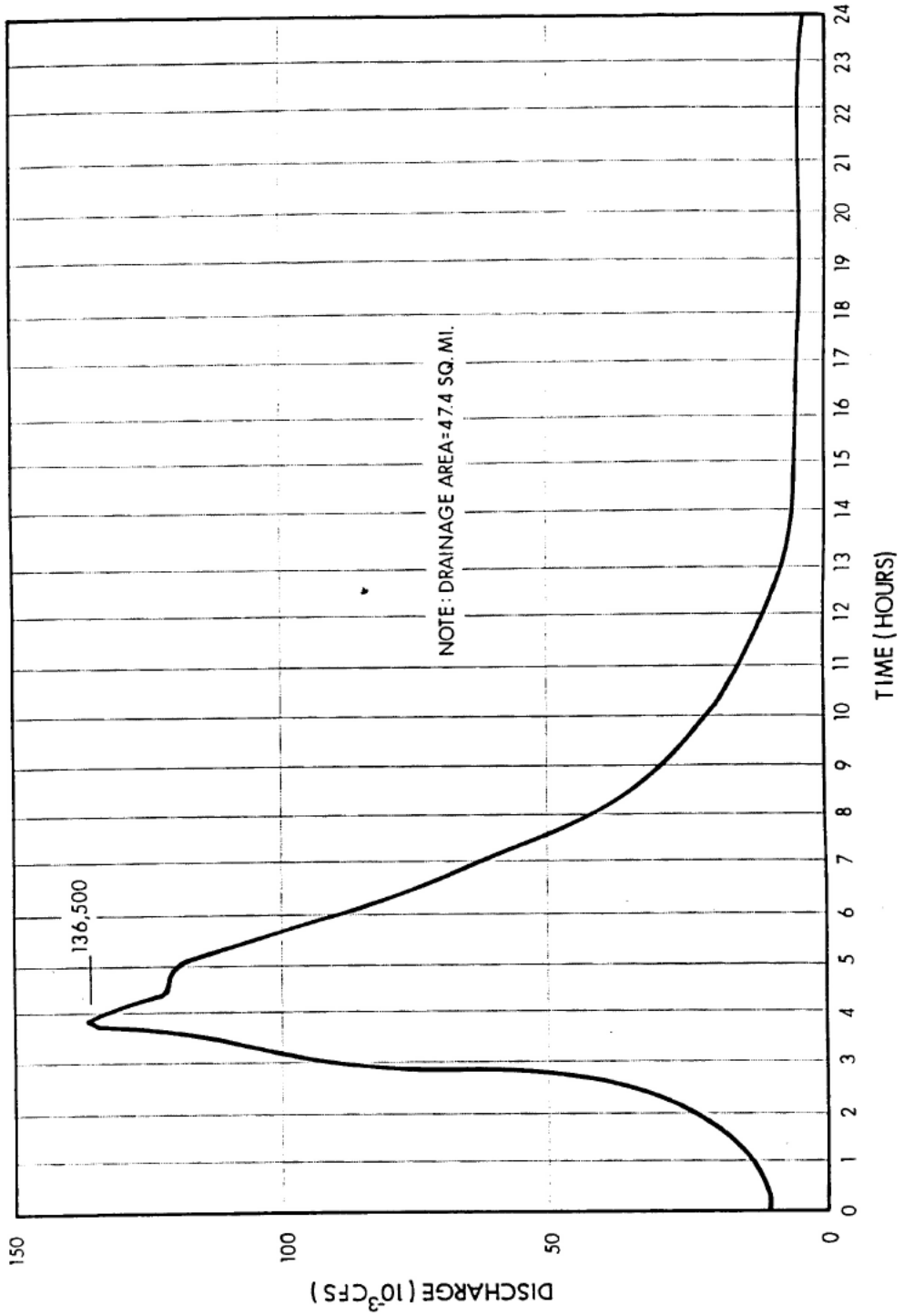


(A) NATURAL DRAINAGE AREA (35.2 SQ. MILES)

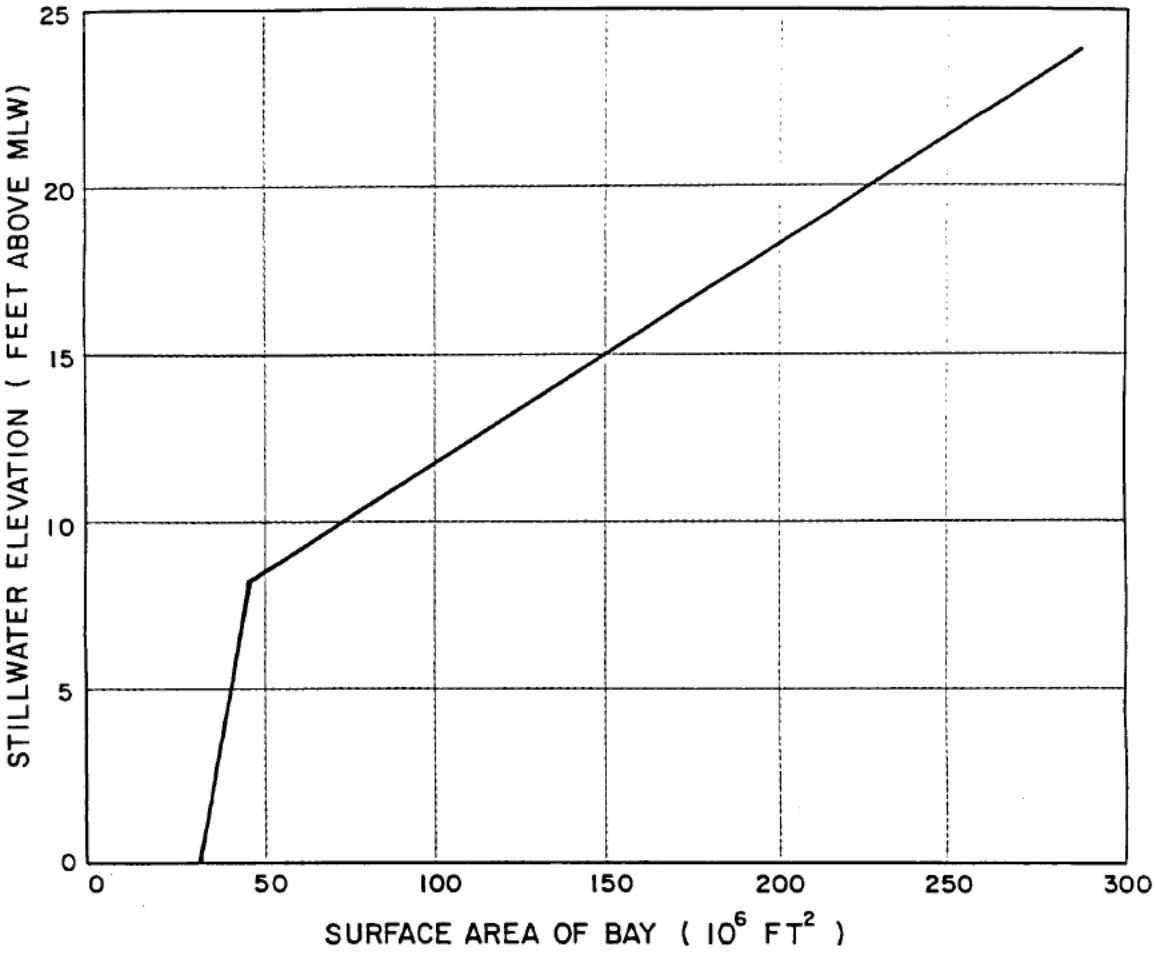


(B) SUBMERGED AREA

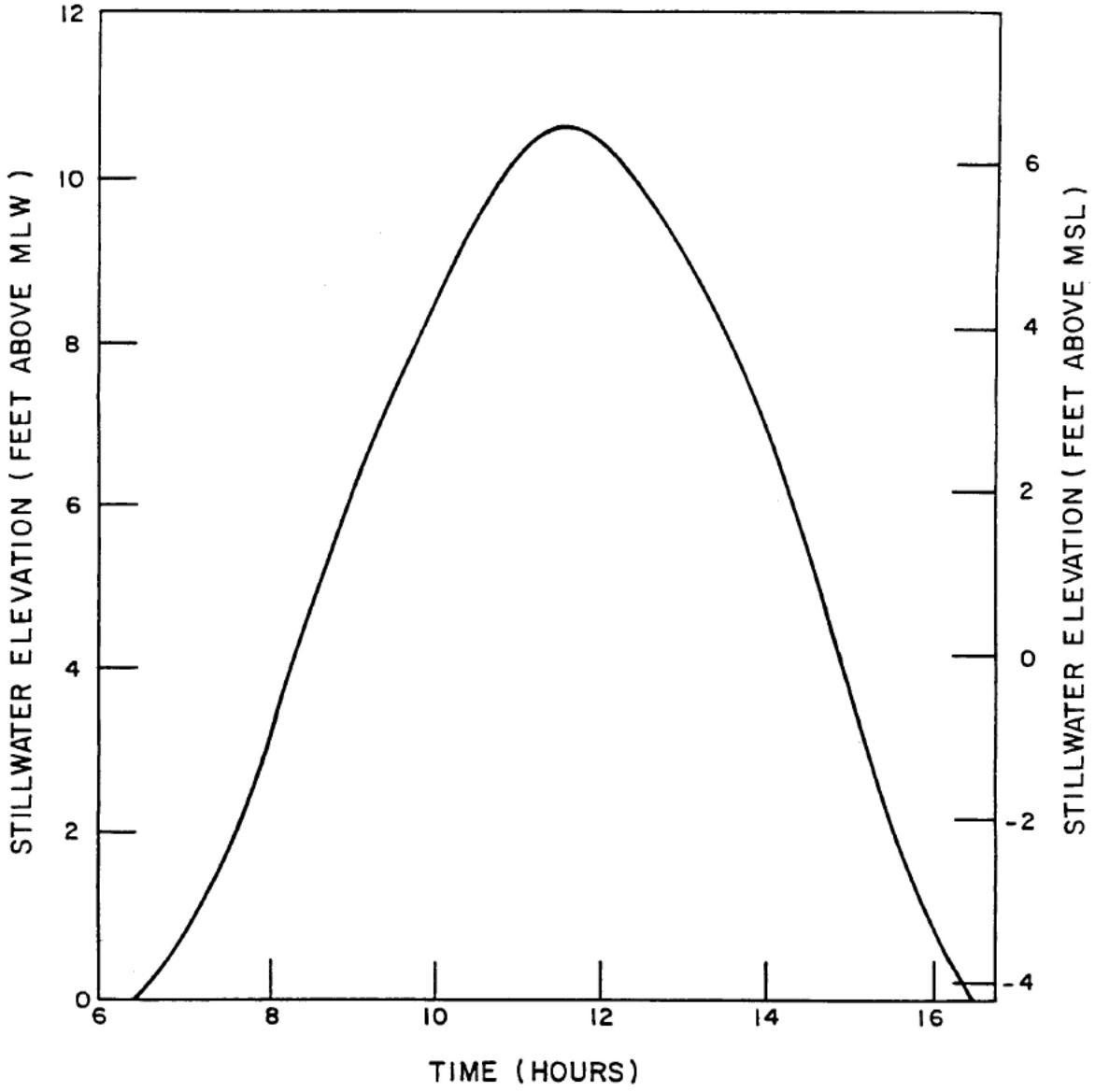
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	PMP Hydrographs	
		Figure 2.4-8



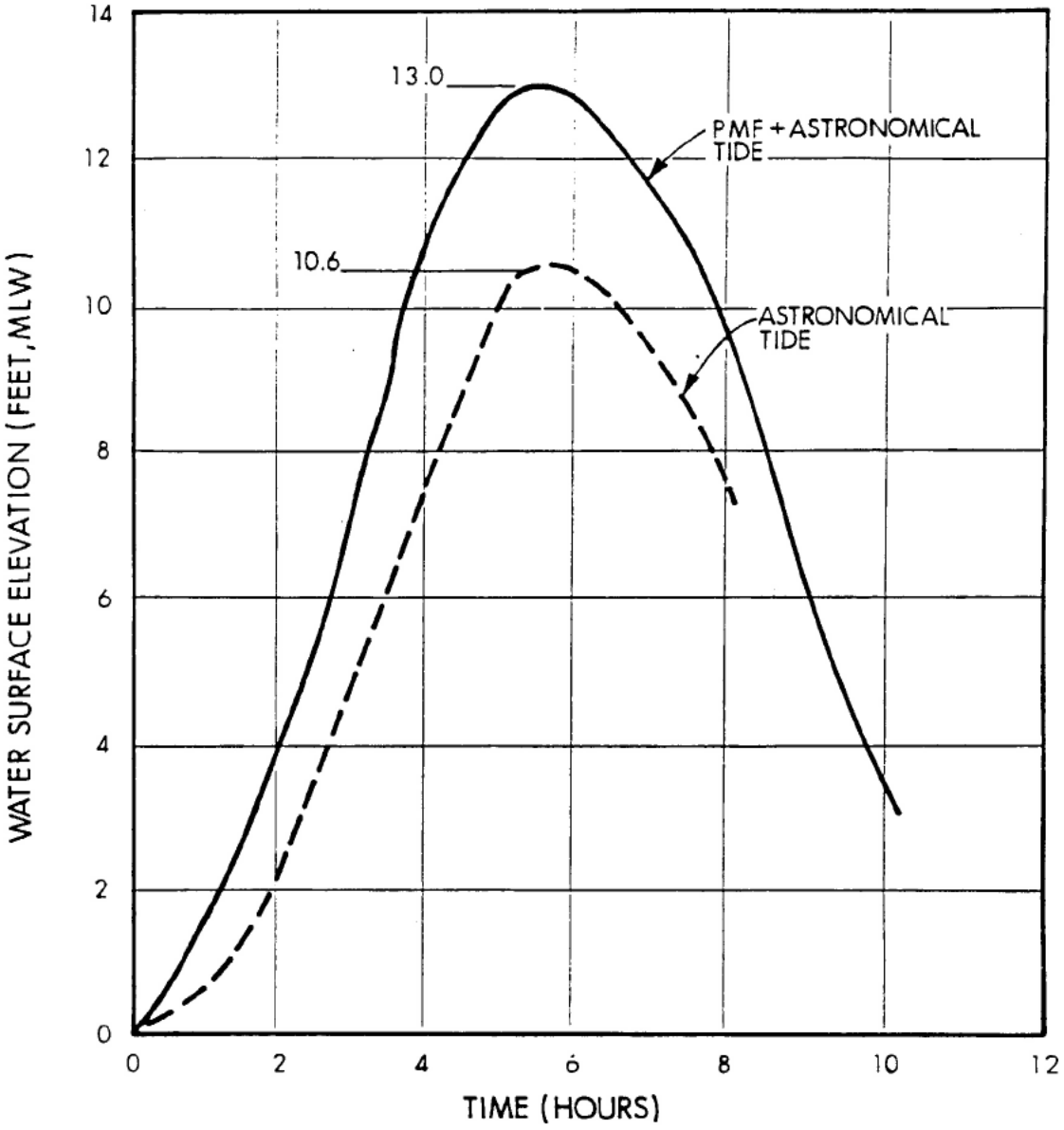
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	PMF Discharge Hydrograph	
		Figure 2.4-9



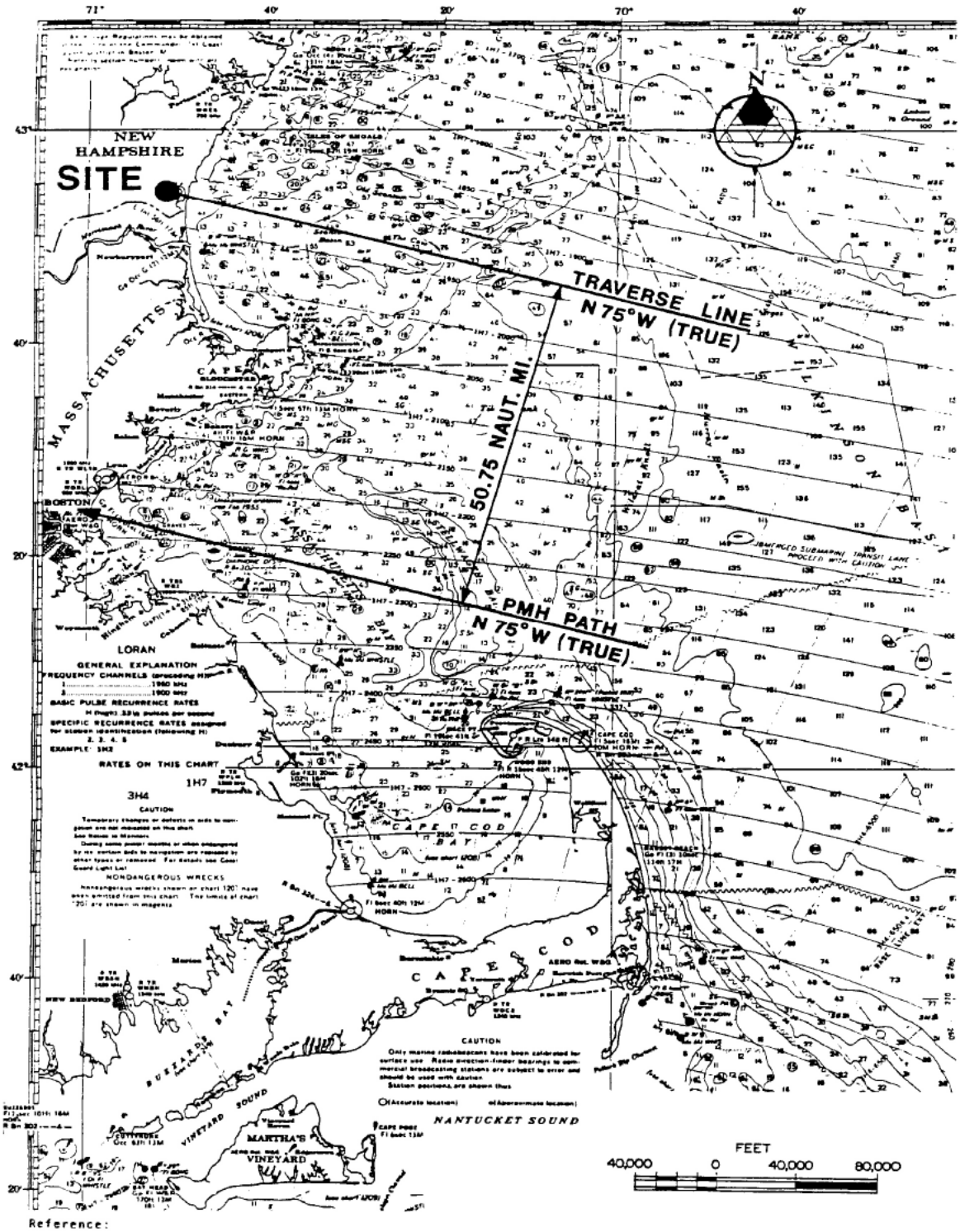
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Hampton Harbor Surface Area vs. Elevation	
		Figure 2.4-10



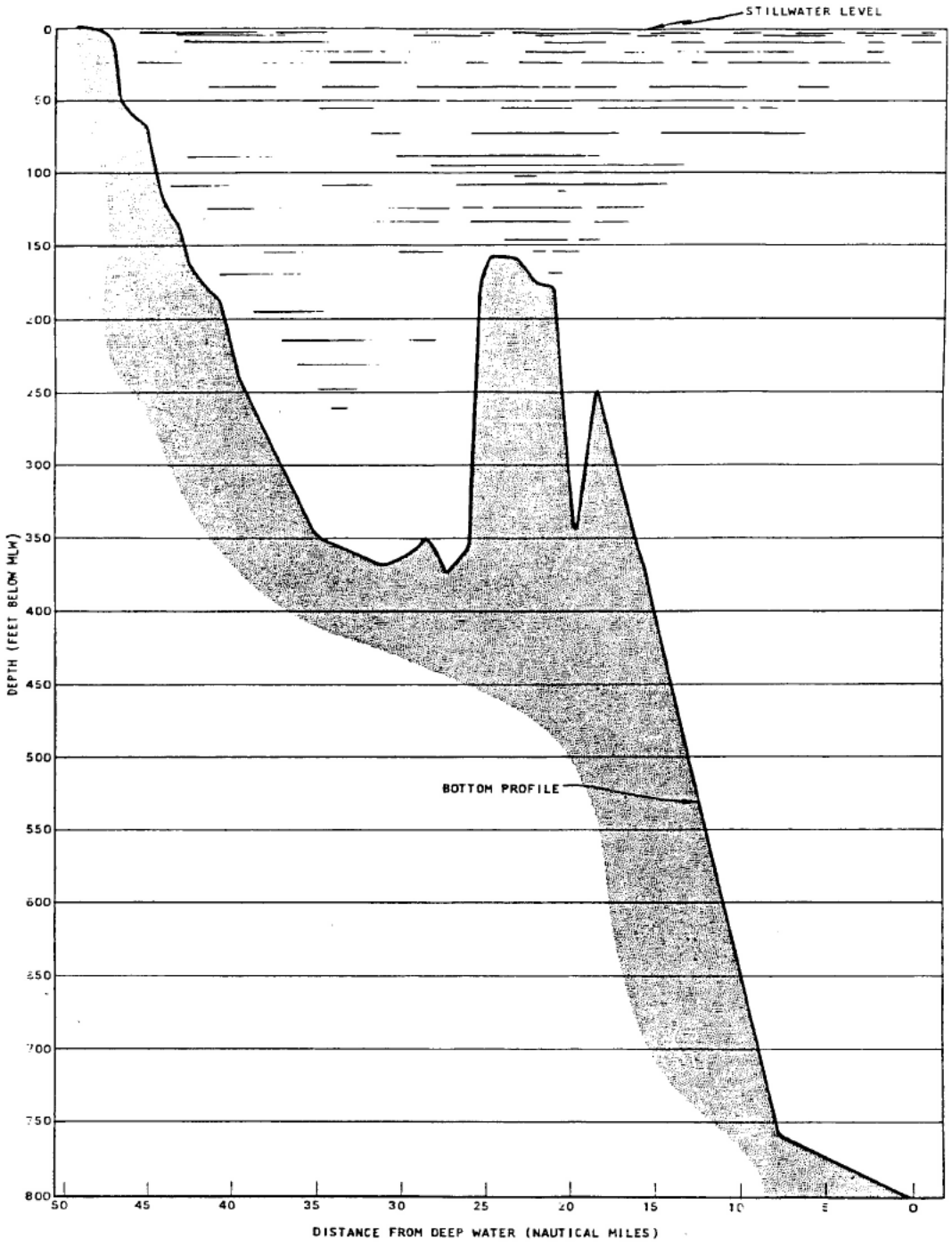
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Astronomical Tidal Cycle – Hampton Harbor – November 22, 1972	
		Figure 2.4-11



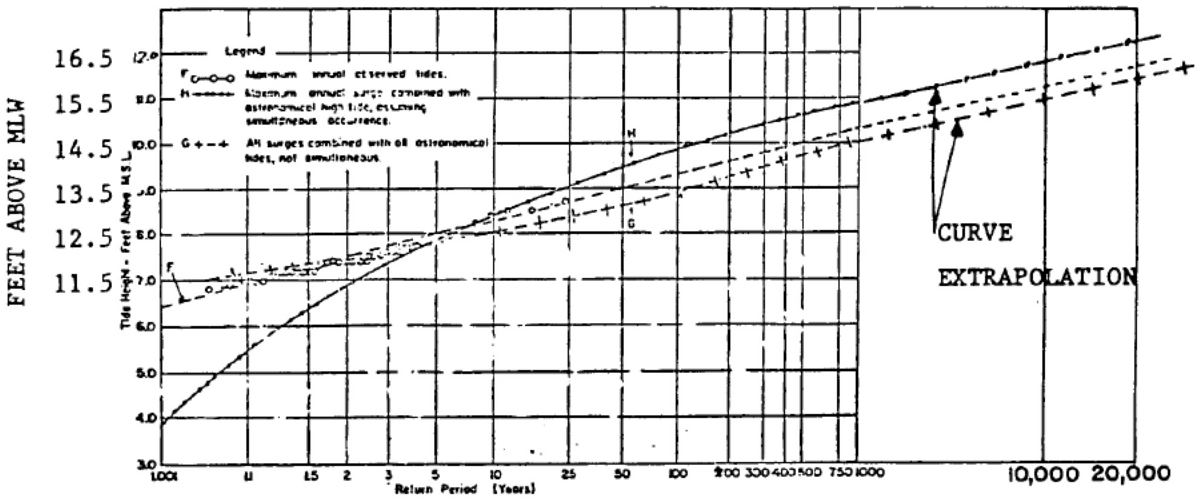
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Hampton Harbor PMF Hydrograph	
		Figure 2.4-12



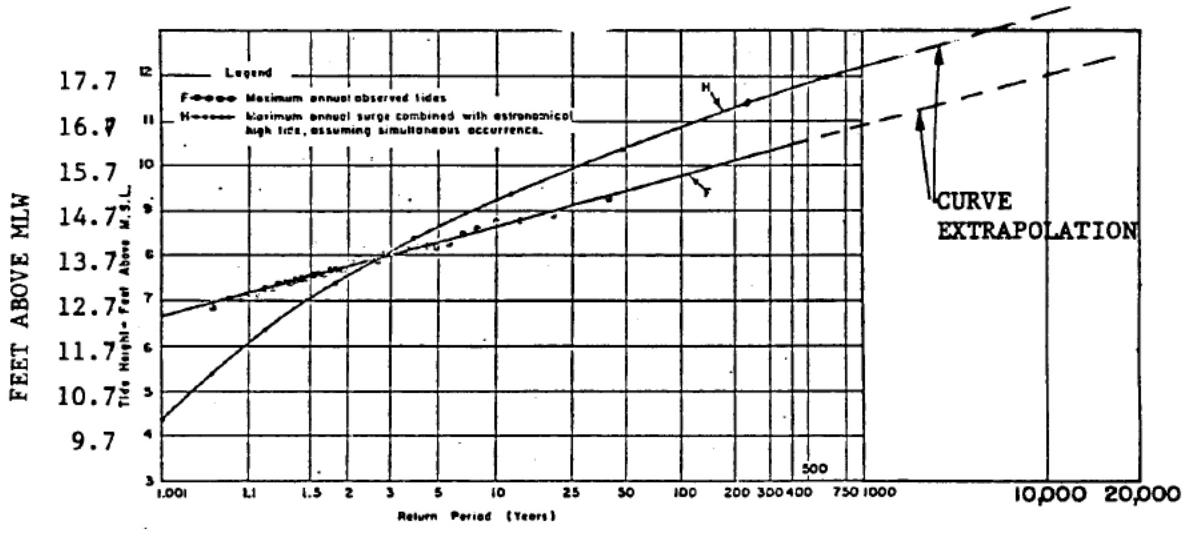
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	PMH Path	
		Figure 2.4-13



SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Offshore Depth Profile – Transverse Line N75°W (True)	
		Figure 2.4-14



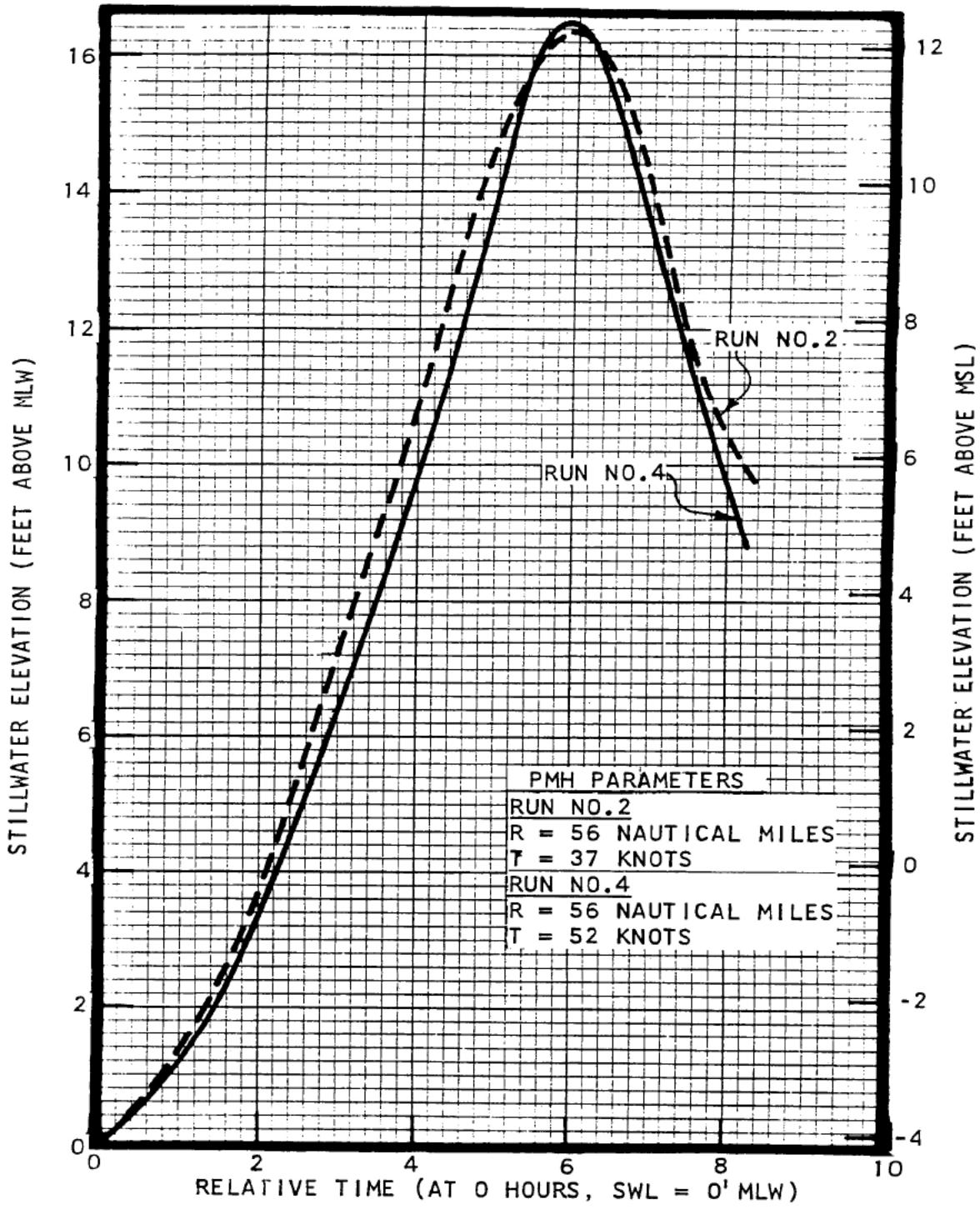
Estimated probability of extreme high tide height at Portland, Maine. (Based on data for 1914-1959.)



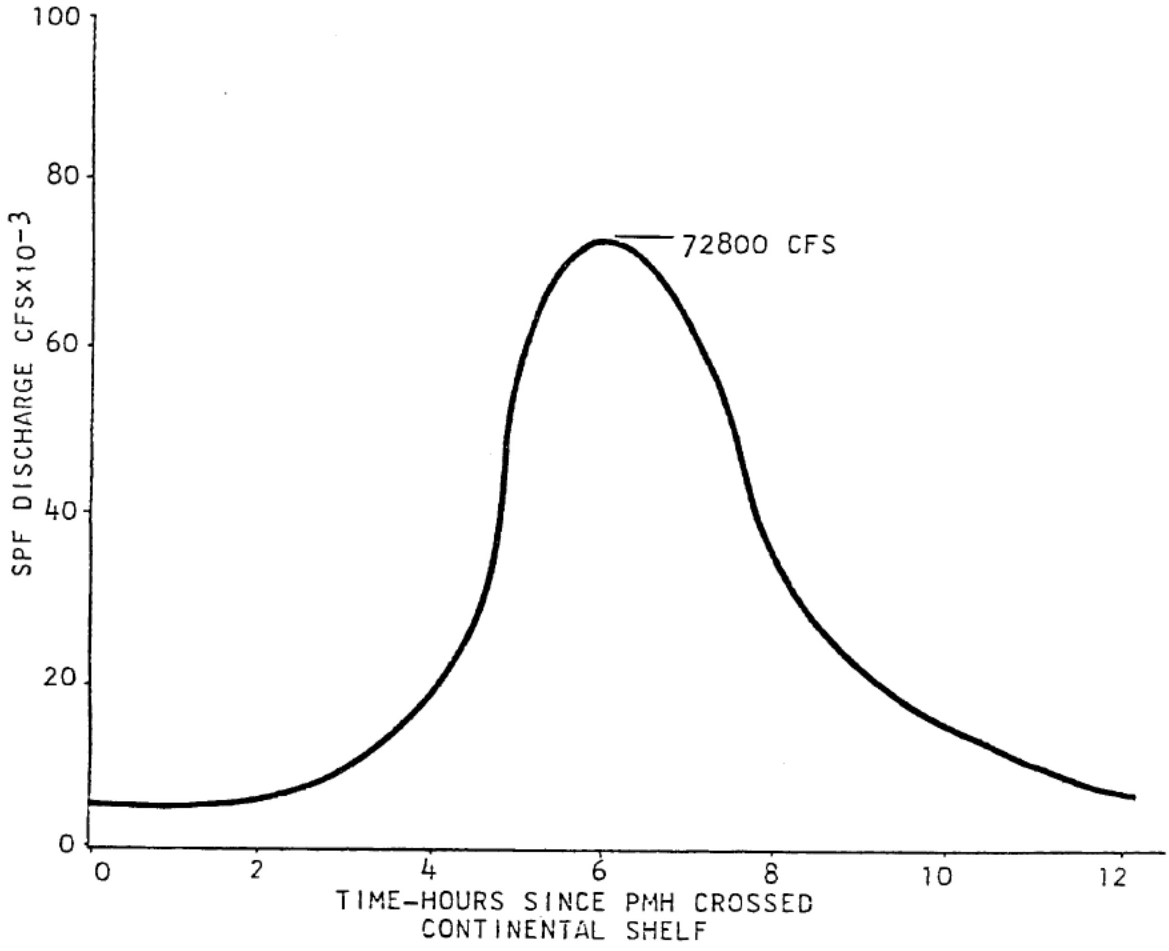
Estimated probability of extreme high tide height at Boston, Mass. (Based on data for 1922-1960)

REFERENCE: Figures 26 and 27 of U. S. Weather Bureau Hydrometeorological Section, "Criteria for a Standard Project Northeaster for New England North of Cape Cod," National Hurricane Research Project Report #68, 1964.

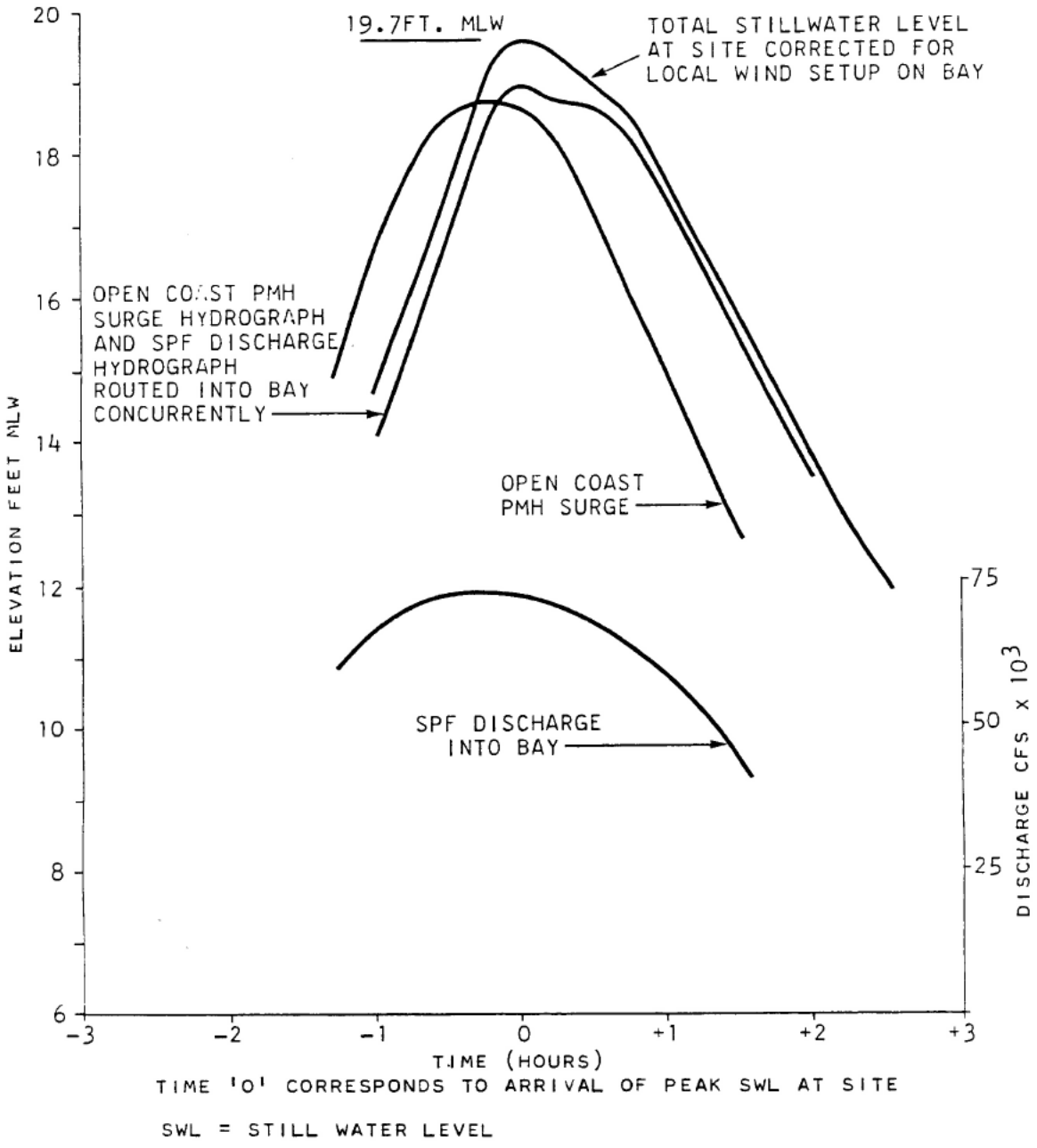
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Estimated Probability of Extreme High Tide at Portland, Maine and Boston, Mass.	
		Figure 2.4-15



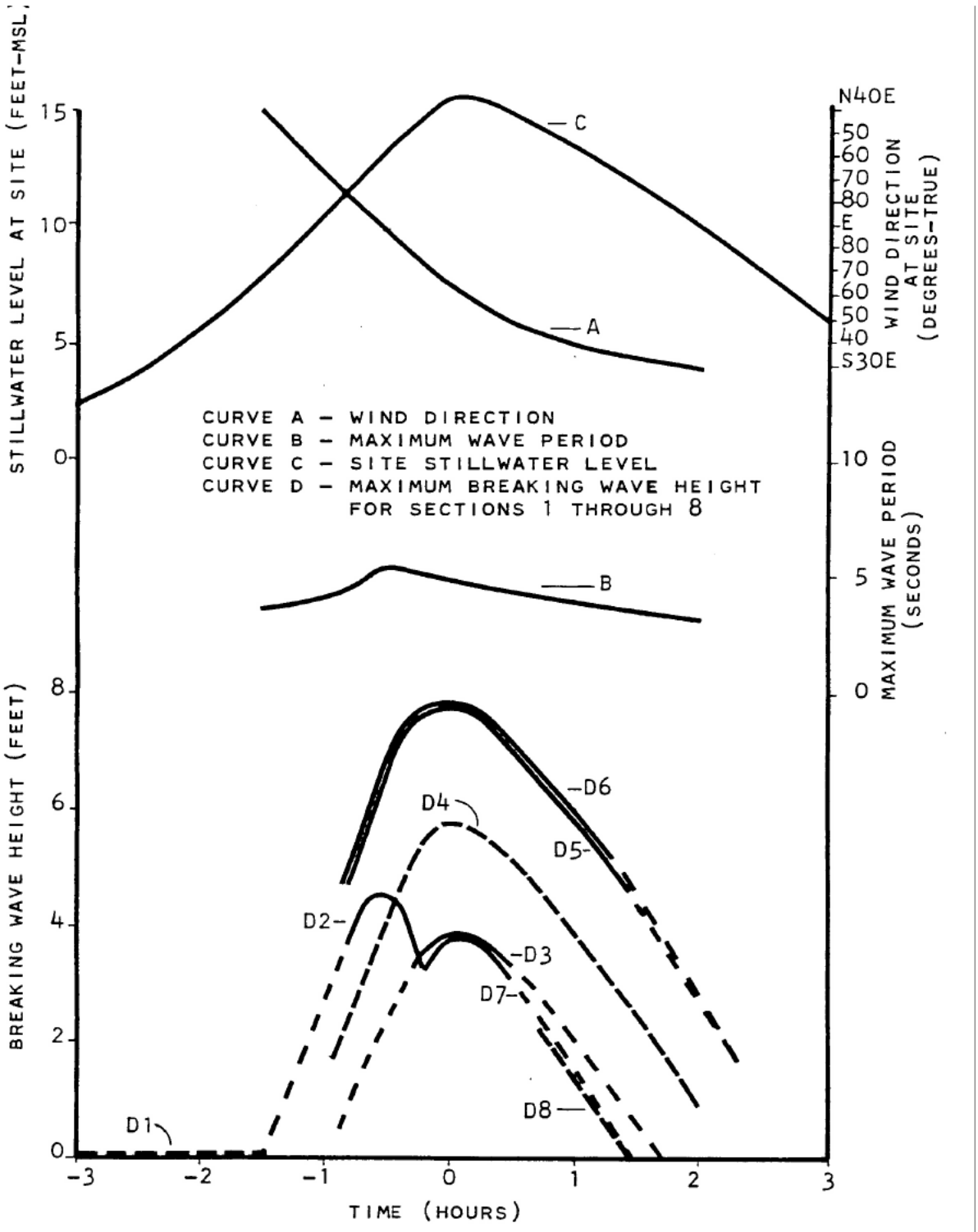
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Open Coast Storm Surge Hydrographs – Seabrook Plant	
		Figure 2.4-16



SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	SPF Discharge Hydrograph	
		Figure 2.4-17



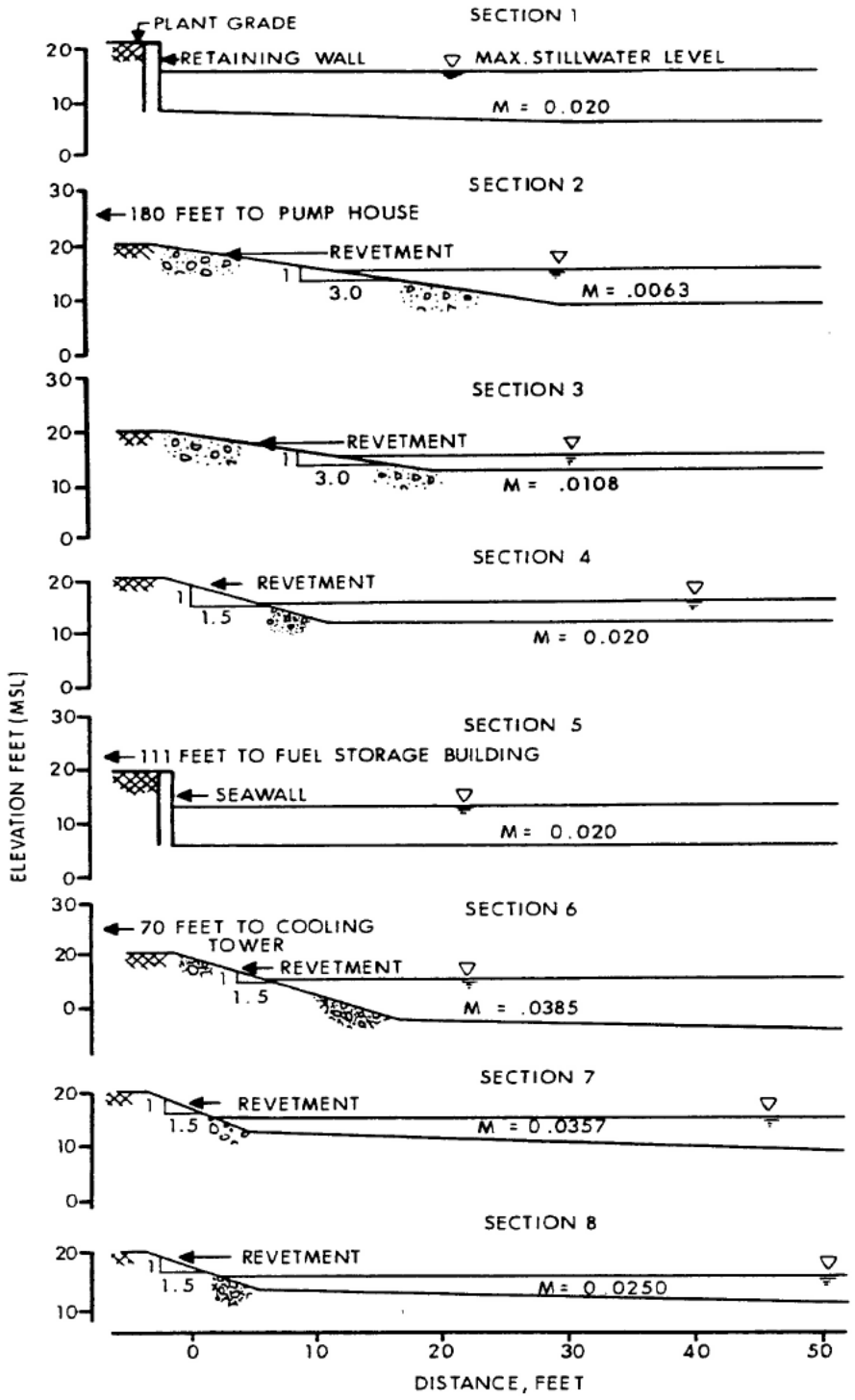
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Resultant PMH and SPF Stillwater Levels	
		Figure 2.4-18



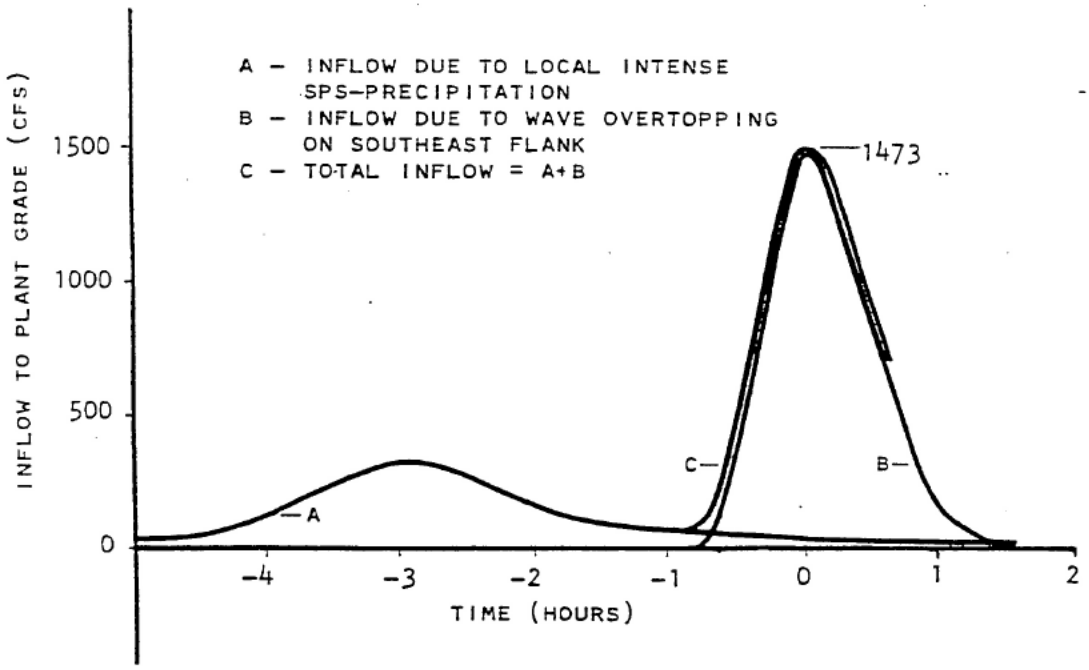
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Design Wave Heights, Periods and Waterlevels	
		Figure 2.4-19

SECURITY-RELATED INFORMATION – WITHHELD UNDER 5 U.S.C. SECTION 552(b)(4) AND 5 U.S.C. SECTION 552(b)(7)(F)

SECURITY-RELATED INFORMATION – WITHHELD UNDER 5 U.S.C. SECTION 552(b)(4) AND 5 U.S.C. SECTION 552(b)(7)(F)

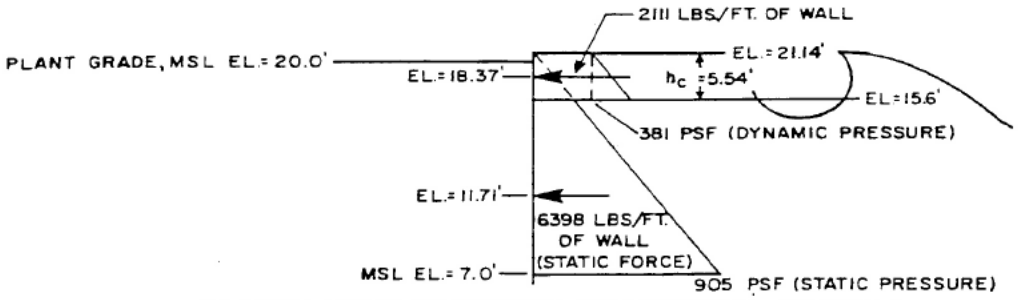


SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Topographic Profiles	
		Figure 2.4-22



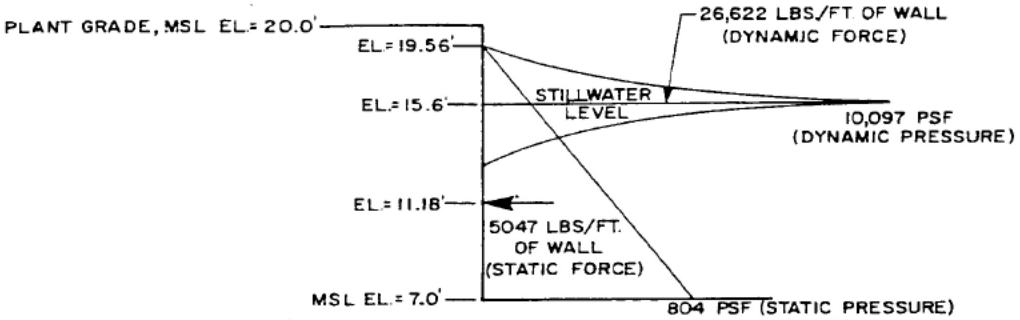
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	SPS – PMH Site Flooding	
		Figure 2.4-23

SECURITY-RELATED INFORMATION – WITHHELD UNDER 5 U.S.C. SECTION 552(b)(4) AND 5 U.S.C. SECTION 552(b)(7)(F)



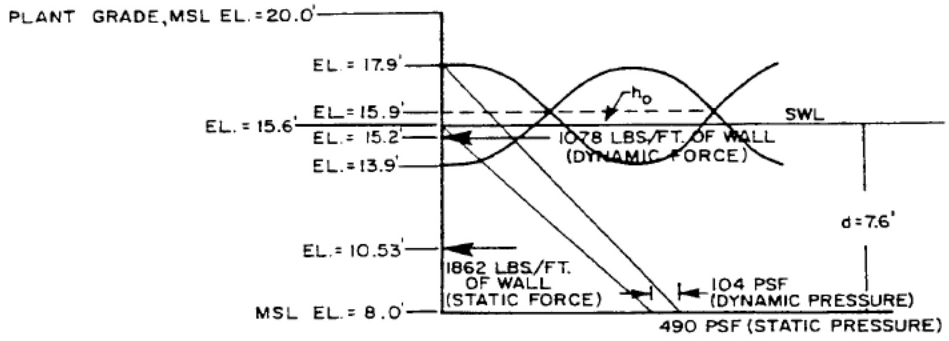
BROKEN WAVE CONDITION ON VERTICAL SEAWALL

WAVE PARAMETERS
H_b = 7.91' (BREAKING WAVE HEIGHT)
T = (INDEPENDENT OF WAVE PERIOD)
d_s = 8.6' (WATER DEPTH IN FRONT OF STRUCTURE)



BREAKING WAVE CONDITION ON VERTICAL SEAWALL

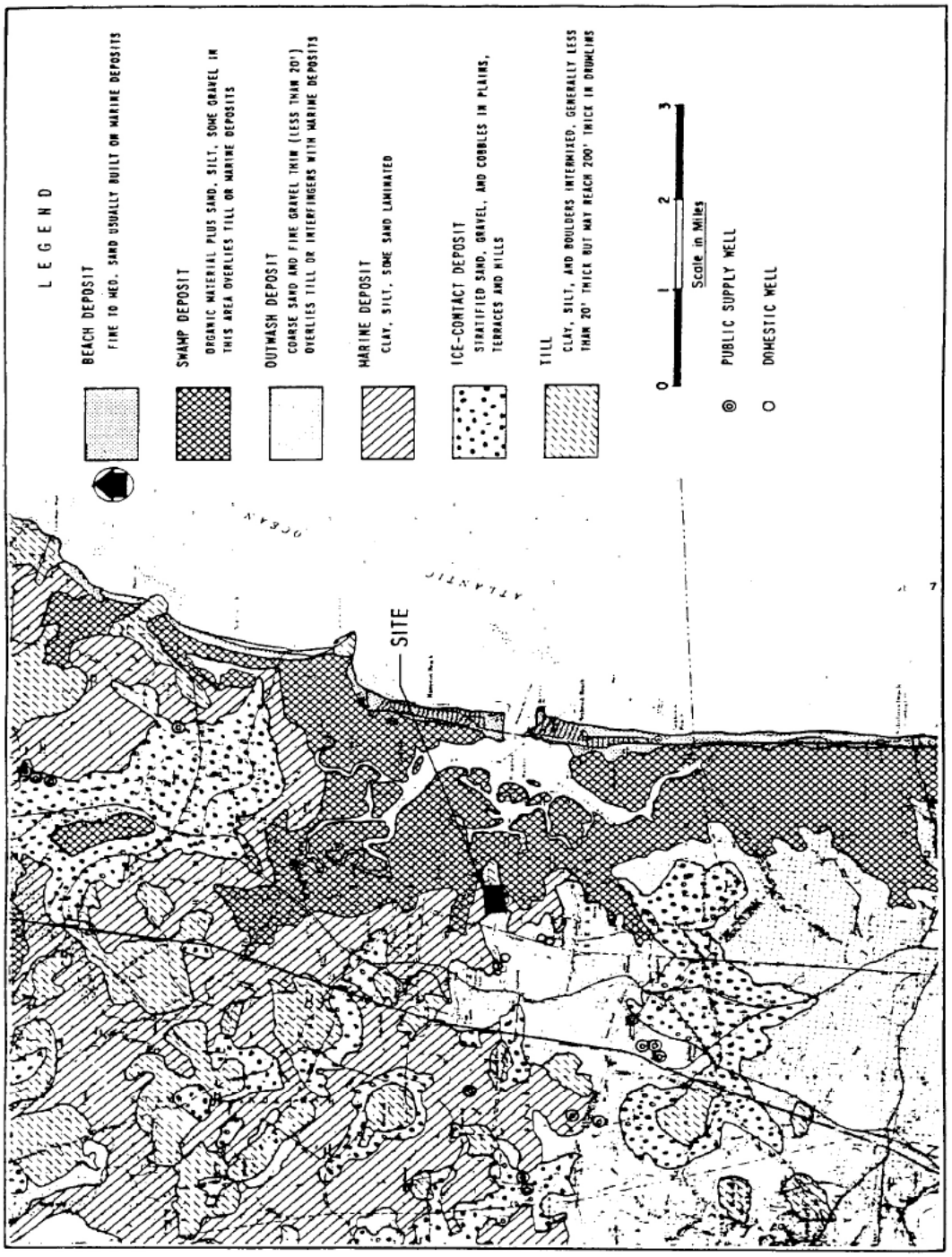
WAVE PARAMETERS
H_b = 7.91' (BREAKING WAVE HEIGHT)
T = 4.8 SECONDS (WAVE PERIOD)
d_s = 8.6' (WATER DEPTH IN FRONT OF STRUCTURE)



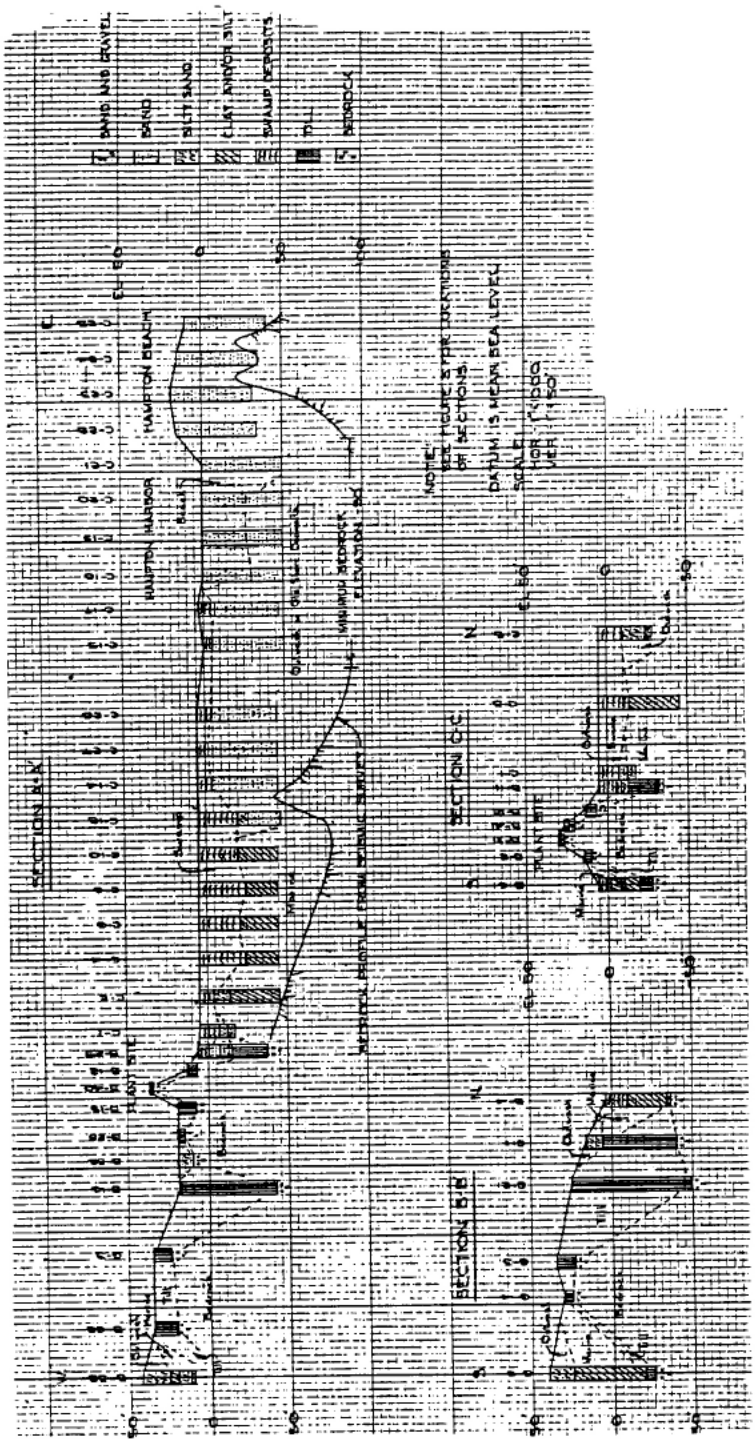
NON-BREAKING WAVE CONDITION ON RETAINING WALL

WAVE PARAMETERS
H = 2.0' (WAVE HEIGHT)
T = 4.8 SECONDS (WAVE PERIOD)
d_s = 7.6' (WATER DEPTH IN FRONT OF STRUCTURE)

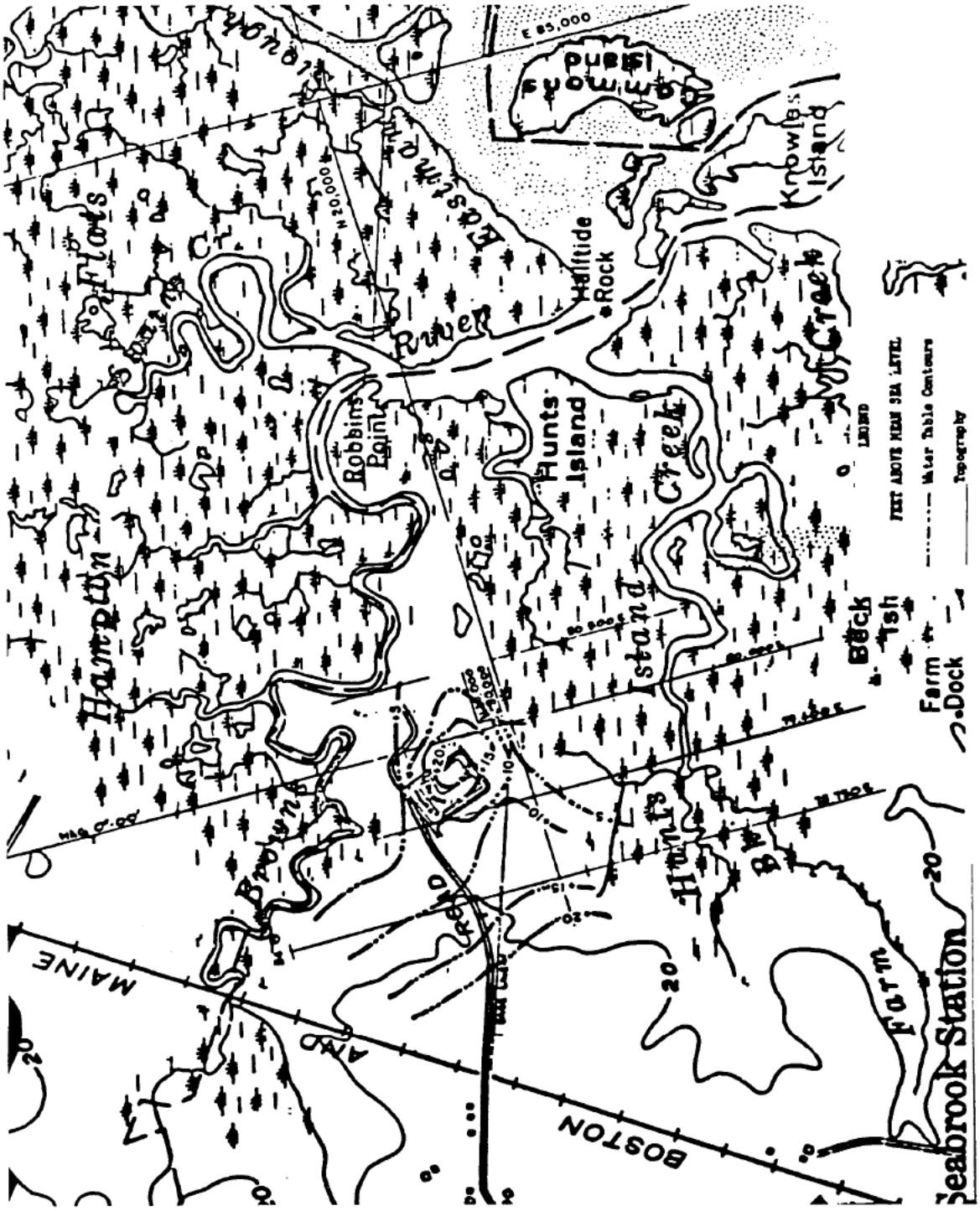
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Wave Pressure Distributions against Seawall and Retaining Wall	
		Figure 2.4-25



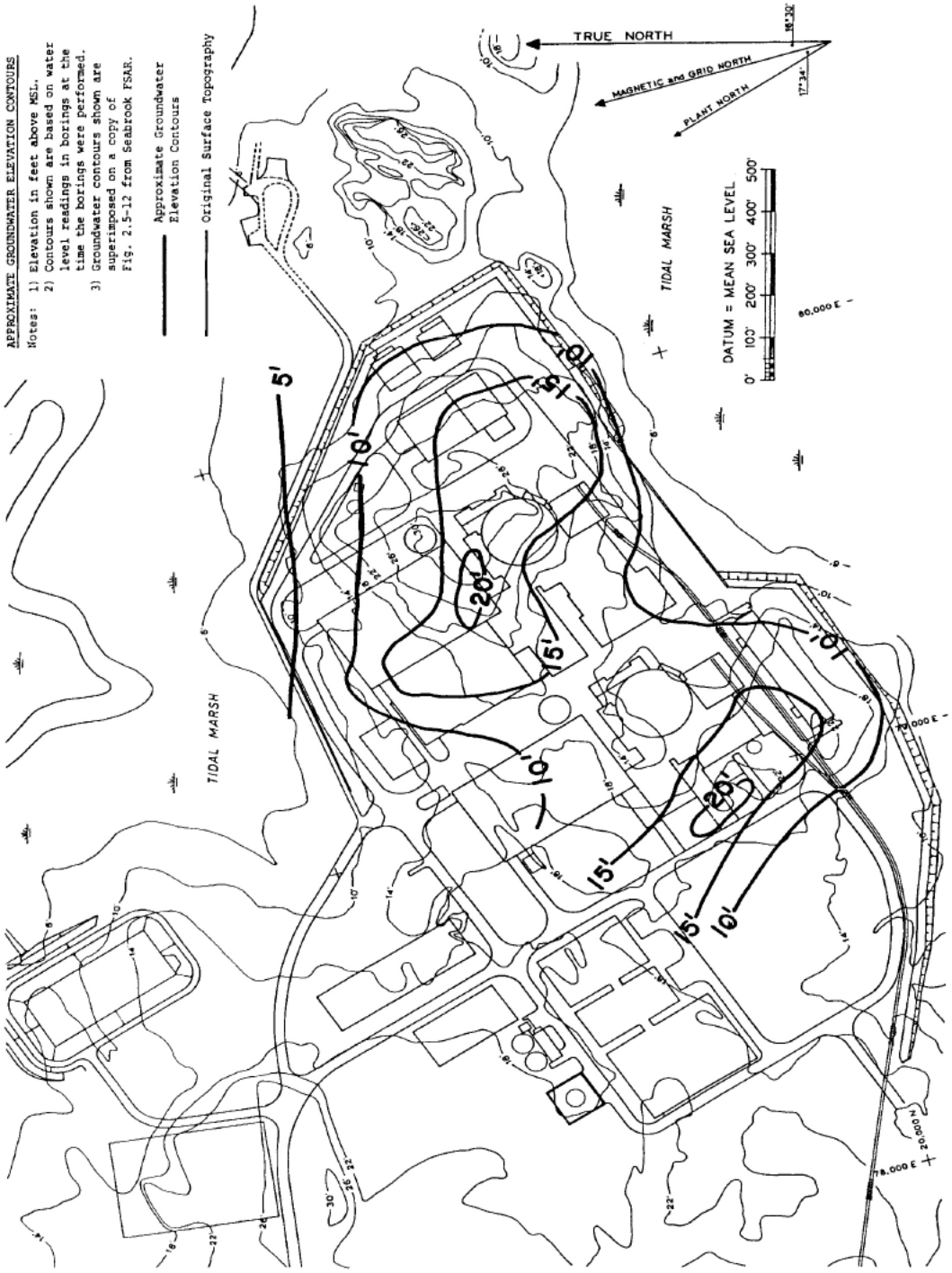
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Surficial Geology in the Seabrook Area	
		Figure 2.4-26



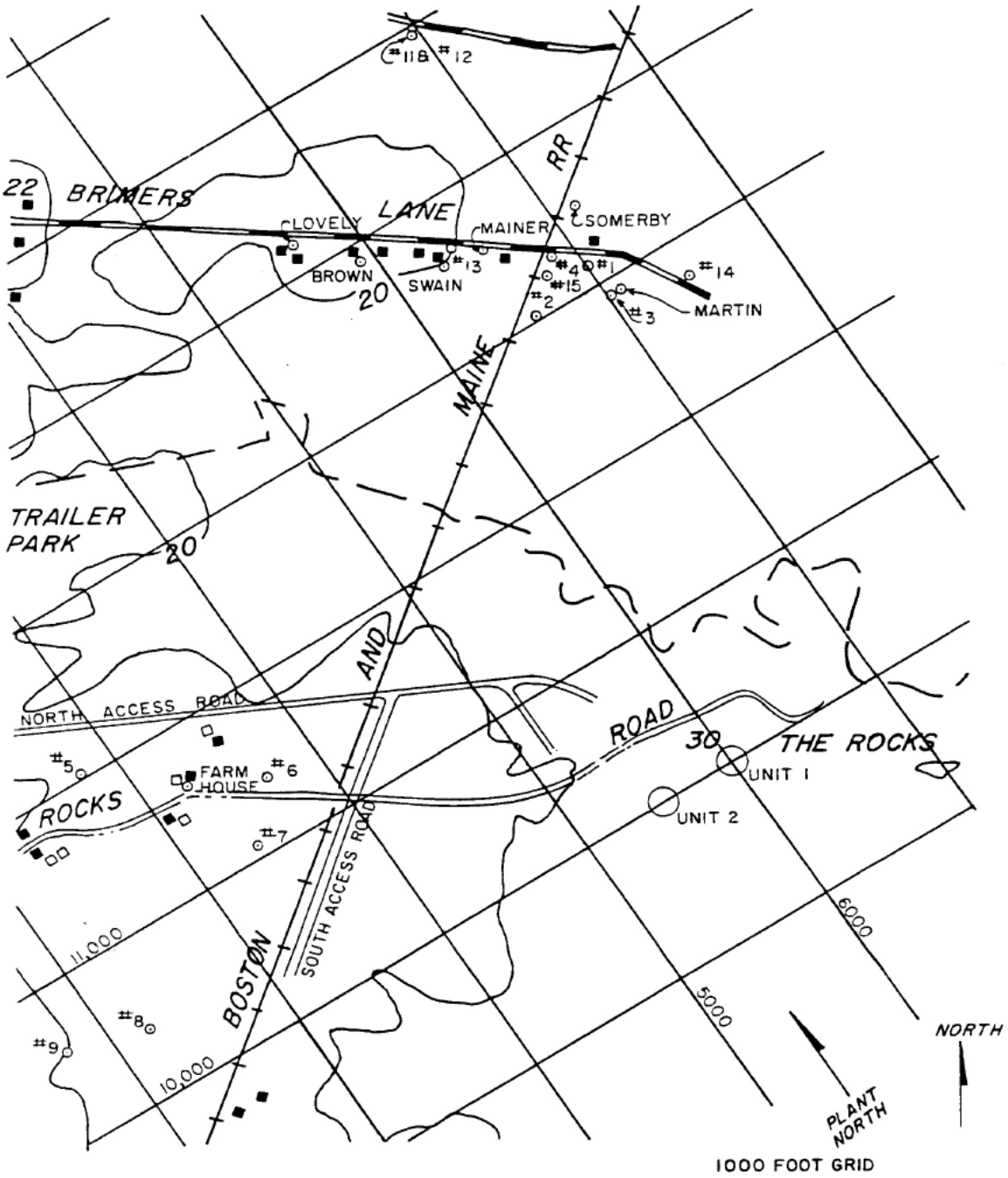
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Geologic Profile of Seabrook Area	
		Figure 2.4-27



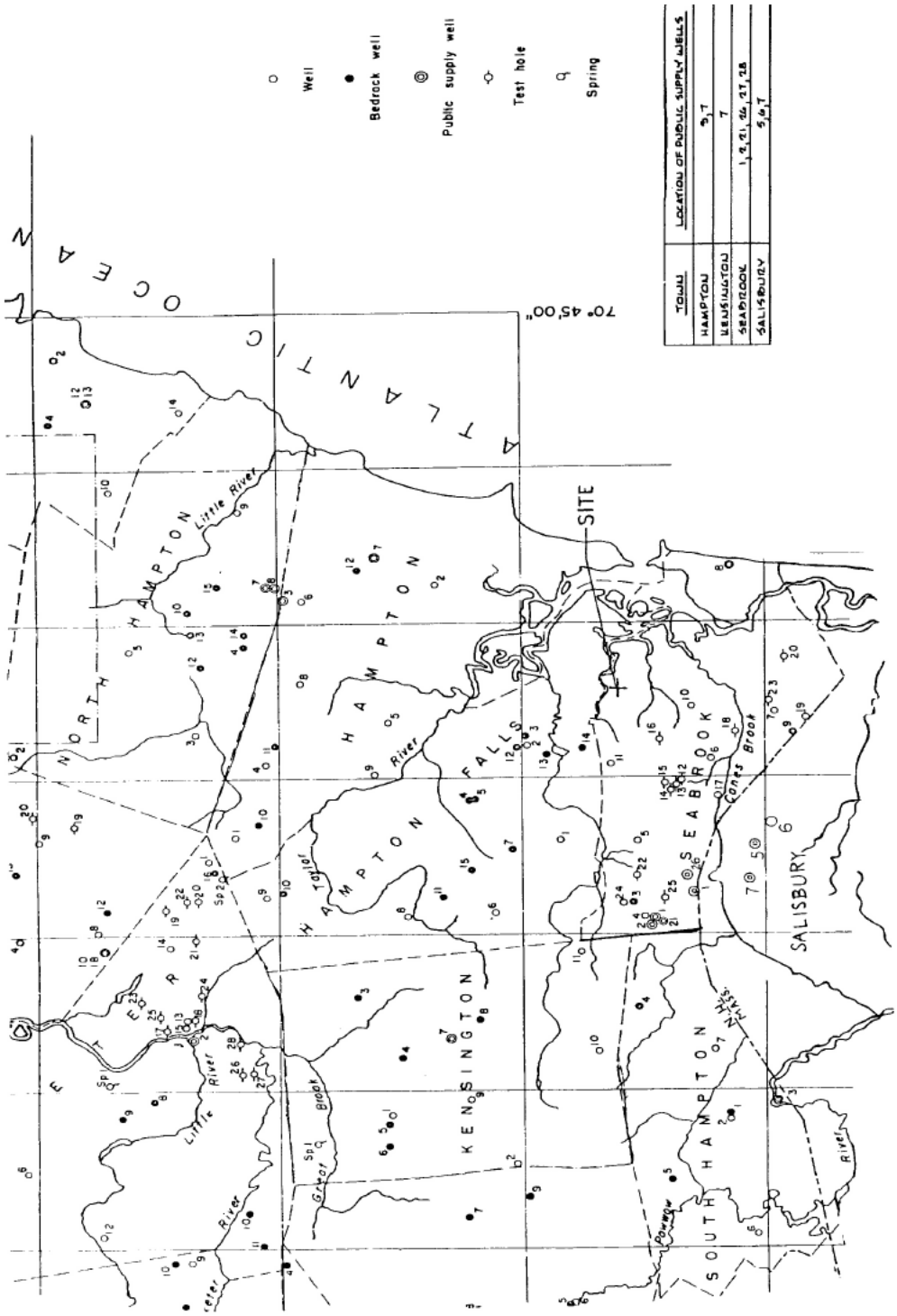
SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Water Table Contours	
		Figure 2.4-28



SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Groundwater Contours in Plant Site Area Prior to Construction	
		Figure 2.4-29



SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Site Vicinity Wells	
		Figure 2.4-30



SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Seabrook Area Wells	
		Figure 2.4-31

REFERENCE: GEOLOGY AND GROUNDWATER RESOURCES OF SOUTHEASTERN NEW HAMPSHIRE, GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1695, BY HOWARD BRADLEY, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C., 1964.

SEABROOK STATION UPDATED FINAL SAFETY ANALYSIS REPORT	Water Level Variations in the Seabrook Area	
		Figure 2.4-32