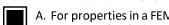
RICRMC COASTAL HAZARD ANALYSIS WORKSHEET

APPLICANT NAME: Nicholas Veltri

PROJECT SITE ADDRESS: Wilson Drive; A.P. N-A, Lot 28K, Narragansett

STEP 1. PROJECT DESIGN LIFE



A. For properties in a FEMA-designated A, or X Zone, provide the first floor elevation (FFE) of the proposed structure referenced to NAVD88, OR For properties in a FEMA-designated V or Coastal A Zone, please provide the elevation of the lowest horizontal structural member (LHSM) referenced to NAVD88.

B. How long do you want your project to last? Identify the expected design life for the project (CRMC recommends a minimum of 30 years)

C. Add the number of years you identified in 1B to the current year. (For example, if you are completing this form in the year 2020, and you want your project to last 30 years, your design life year will be 2050.)

FFE 14.5 ft

OR

LHSM elevation ft

> Design Life: 30 vrs

Design Life Year: 2054



D. CHECK beneath the sea level rise (SLR) projection that matches or comes closest to project design life year.

Year	2030	2040	2050	2060	2070	2080	2090	2100
SLR	0.71	1.11	1.60	2.29	3.17	4.19	5.35	6.47
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Source: Sea Level Rise (SLR) Projections (Feb. 2022). NOAA High Curve, Newport, RI Tide Gauge. All values are expressed in feet relative to NAVD88. https:// sealevel.nasa.gov/task-force-scenario-tool?psmsl_id=351

NOTE: The present National Tidal Datum Epoch (NTDE) is 1983 through 2001. The NOAA 2017 data use a baseline starting at 2000, and the NOAA 2022 data use a baseline starting at 2020. Between 1991 and 2020 there was an annual average of 4.03 mm/year of sea level rise at the Newport (8452660) tide station based on the trends data from the Permanent Service for Mean Sea Level (https://www.psmsl.org/products/trends/). Because the PSMSL trends are based on a minimum 30 years of data we will assume a similar trend applies to the shorter 20 year period of 2000 to 2020. Thus, there was approximately 8.06 cm (3.39 inches) of sea level rise during the period 2000 to 2020. Accordingly, the MHHW elevation of 3.85 feet at the Newport station (Epoch 1983-2001) would be adjusted an additional 3.39 inches to 4.13 feet MHHW. For reference, NAVD88 at Newport is 2.04 feet.

STEP 2. SITE ASSESSMENT



Open RICRMC Coastal Hazard Mapping Tool. Following the tutorial along the left side of the screen, enter the project site address and turn on the sea level layer closest to the number you circled in 1D.



ENTER the STORMTOOLS SLR map layer closest to the SLR value you checked in Step 1D above. If the value falls between the available STORMTOOLS SLR map layers, round up to the closest of these sea level rise (SLR) numbers: 1ft, 2ft, 3ft, 5ft, 7ft, 10ft, or 12ft



2



Does the STORMTOOLS SLR map layer you circled above expose your project site to future tidal inundation? CHECK YES or NO



ft



List any roads or access routes that are potentially inundated from SLR. To do this, ZOOM OUT from your project location, change BASEMAP on the viewer to "street view" – see Step 2A.

Wilson Drive

**Please be advised that CRMC staff may also review the implications of sea level rise in combination with nuisance storm flooding and discuss these potential project concerns with the applicant. Nuisance flooding impacts may be viewed in STORMTOOLS here.

STEP 3. STORMTOOLS DESIGN ELEVATION (SDE)



Follow the tutorial included along the left panels of the viewer to enter the address of your project site. Select the tab across the top that corresponds to the sea level rise projection you identified in STEP 1



Click on the map at project site to identify STORMTOOLS Design Elevation (SDE)

from the pop up box. Enter the SDE value: 16.3



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RICRMCCOASTAL HAZARD APPLICATION WORKSHEET

your site, ar	Shoreline Chang nd erosion rate li	<u>re maps</u> , in sted for tha	dicate the tra t transect.	ansect numb		sect Num Erosion R		ft
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