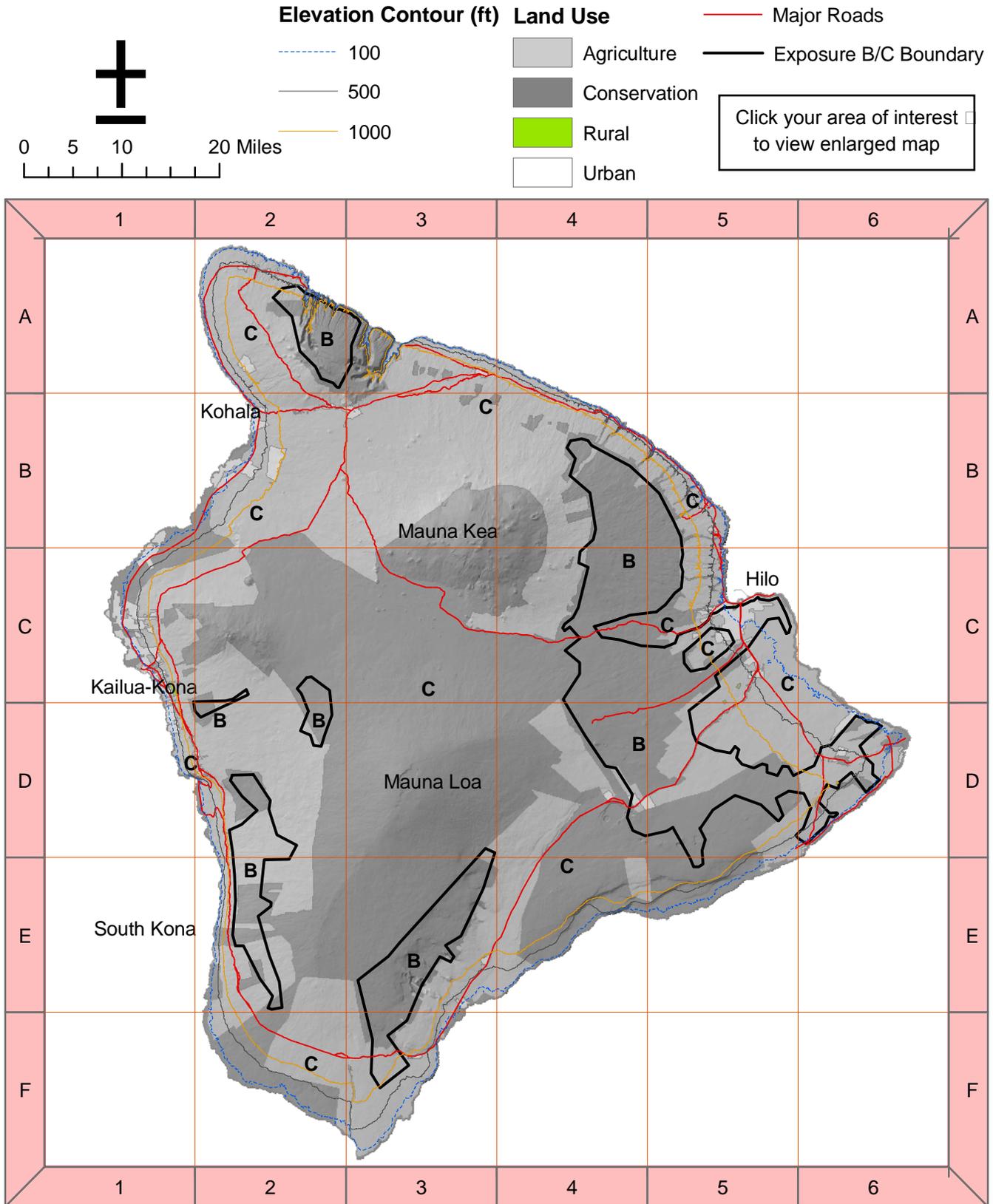


Exposure Category Zones for the Island of Hawaii (for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



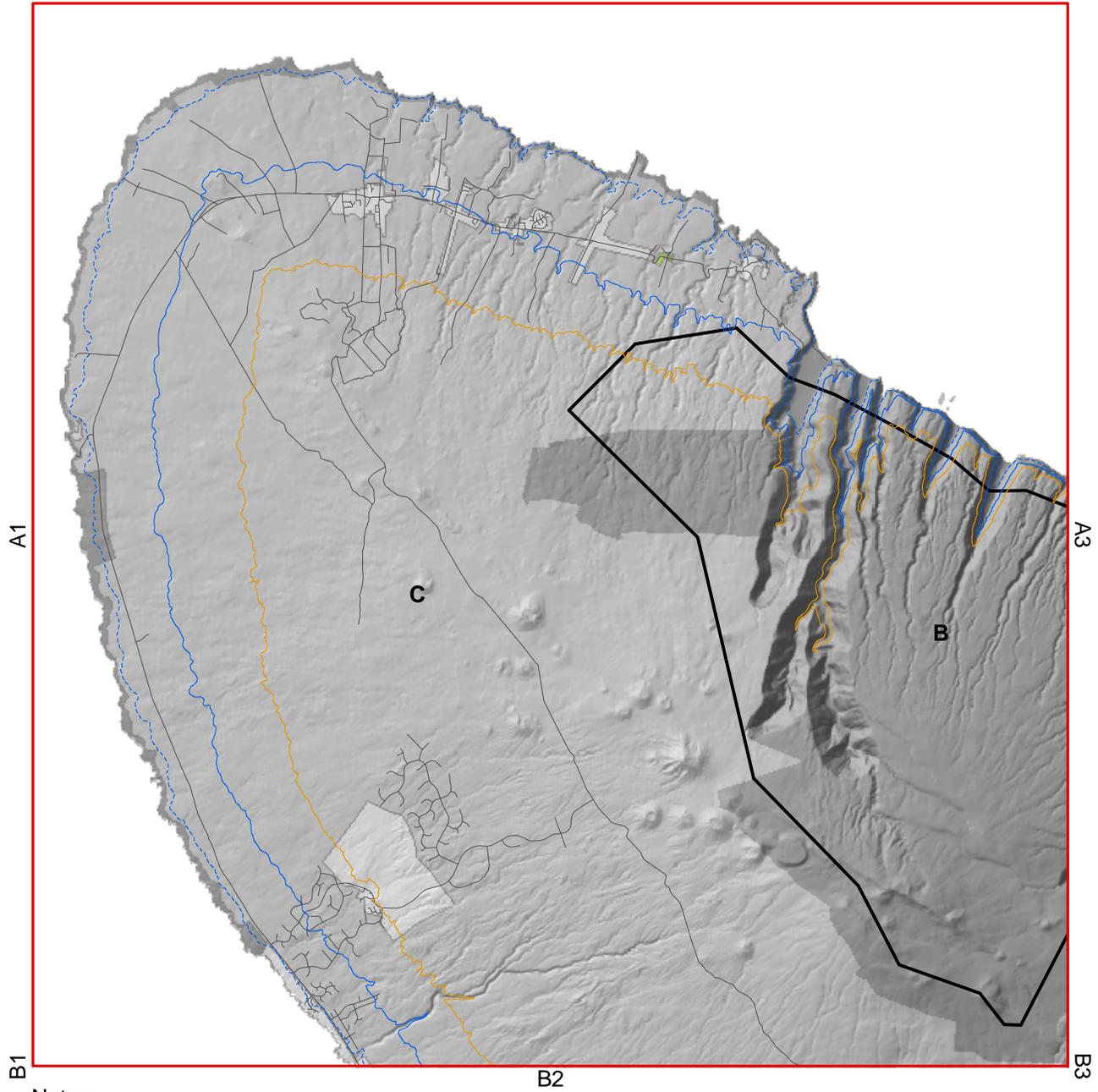
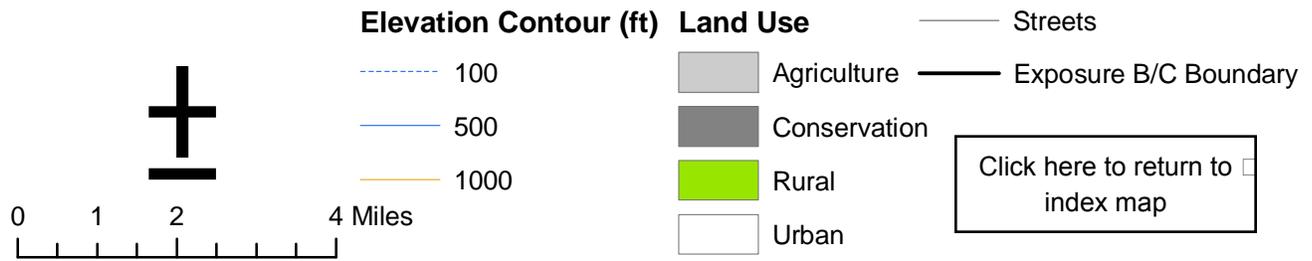
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (A2)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



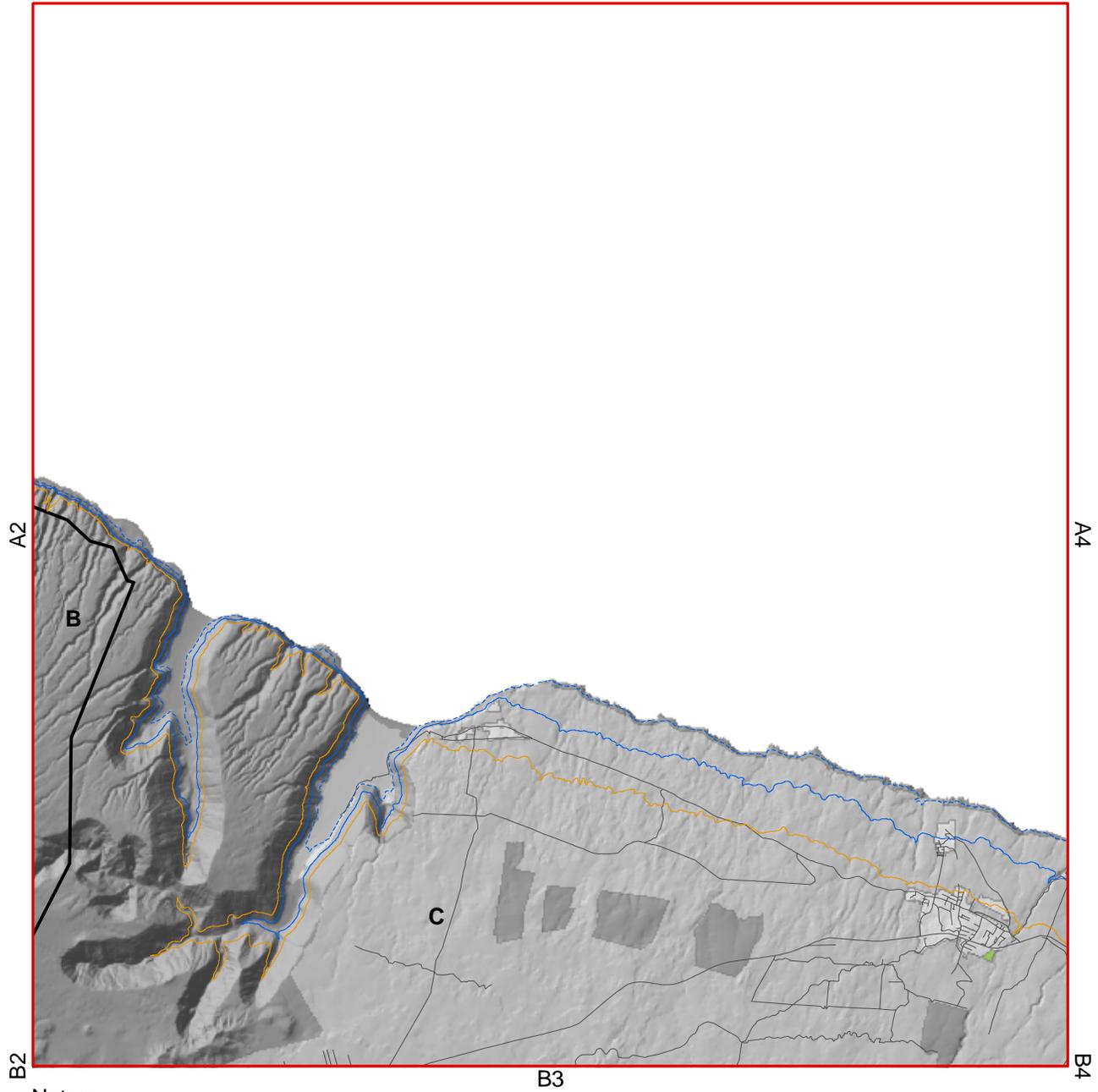
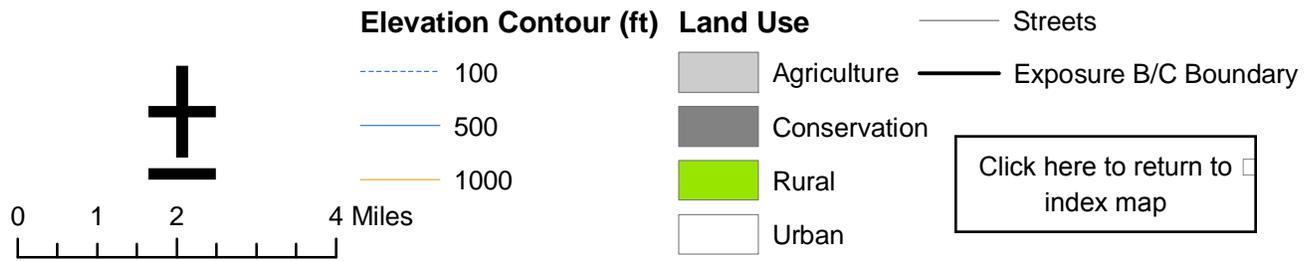
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (A3)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



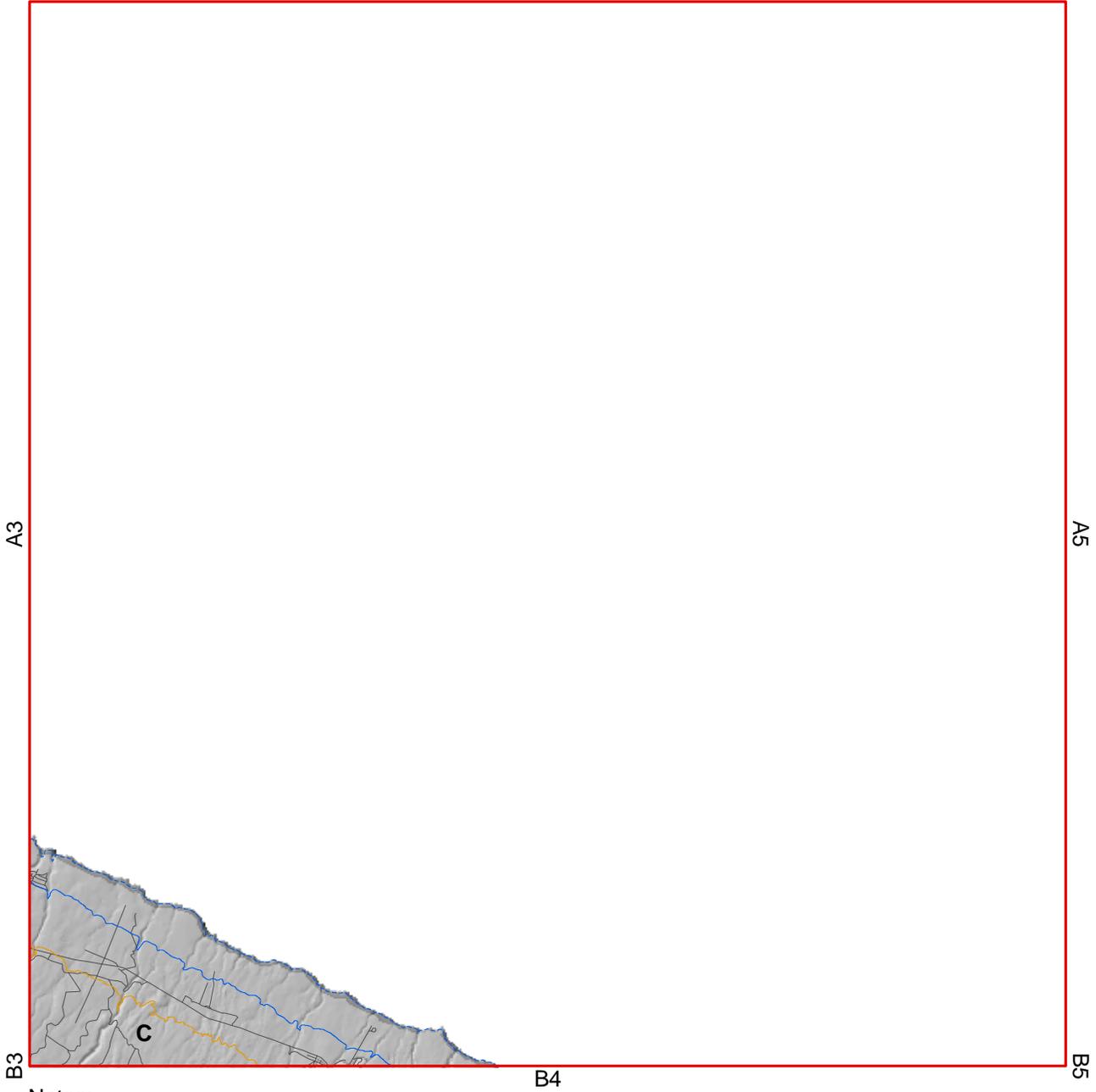
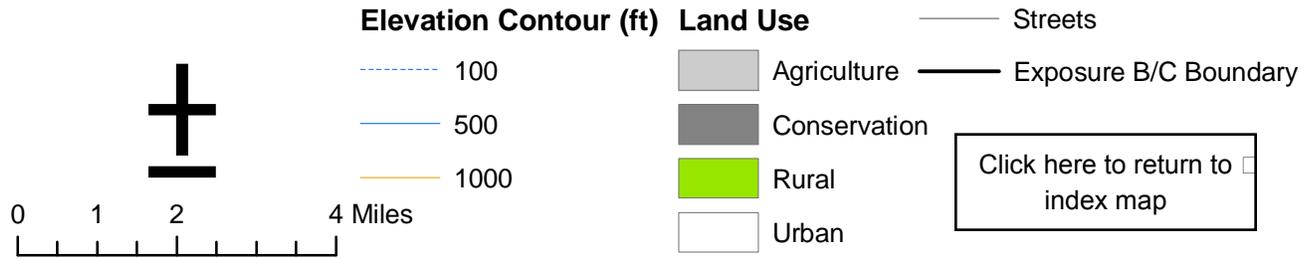
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (A4)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



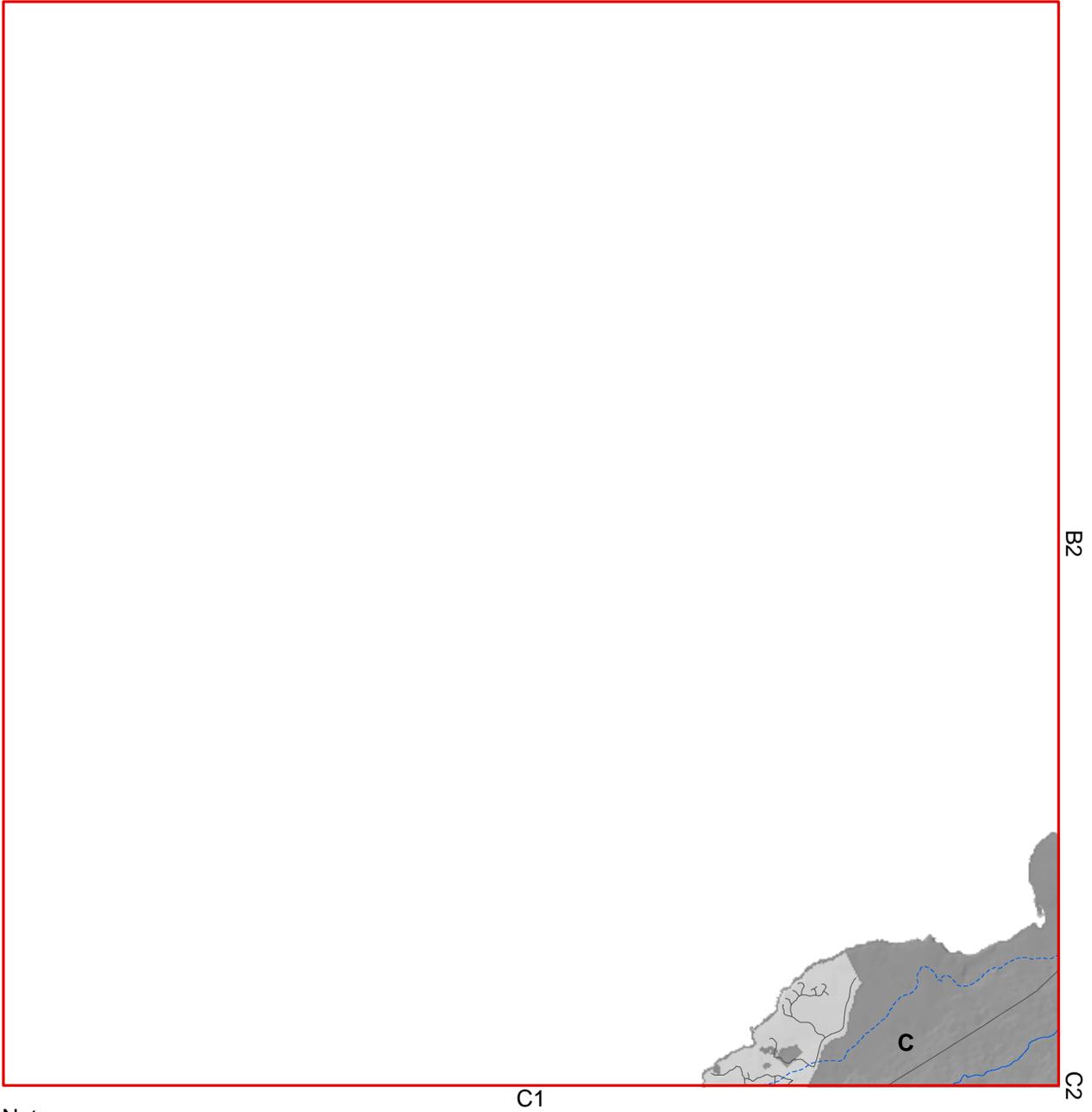
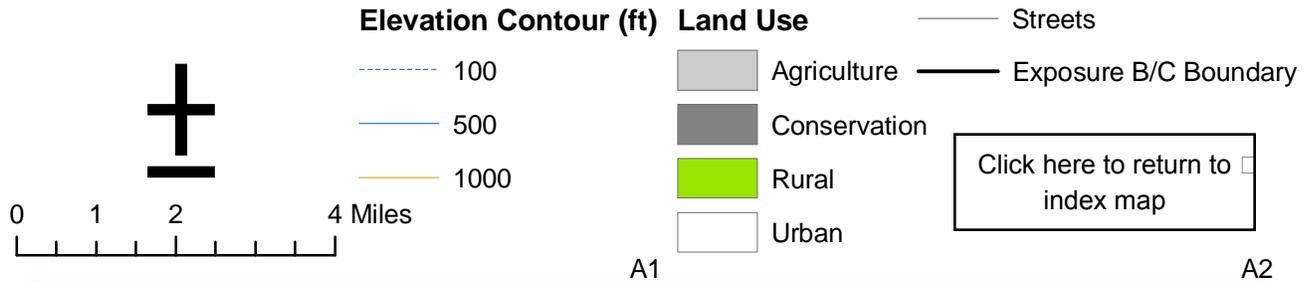
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (B1)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



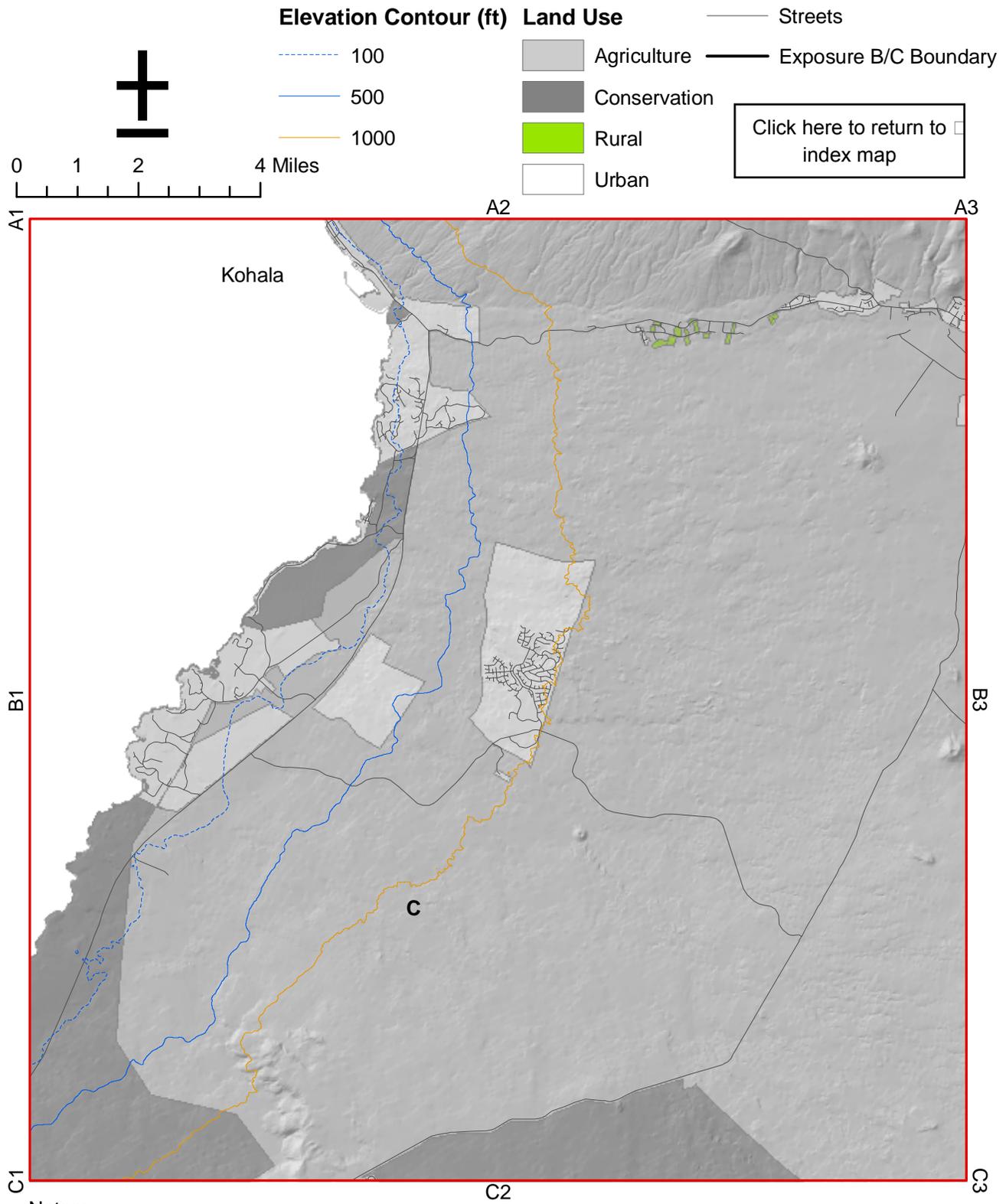
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (B2)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



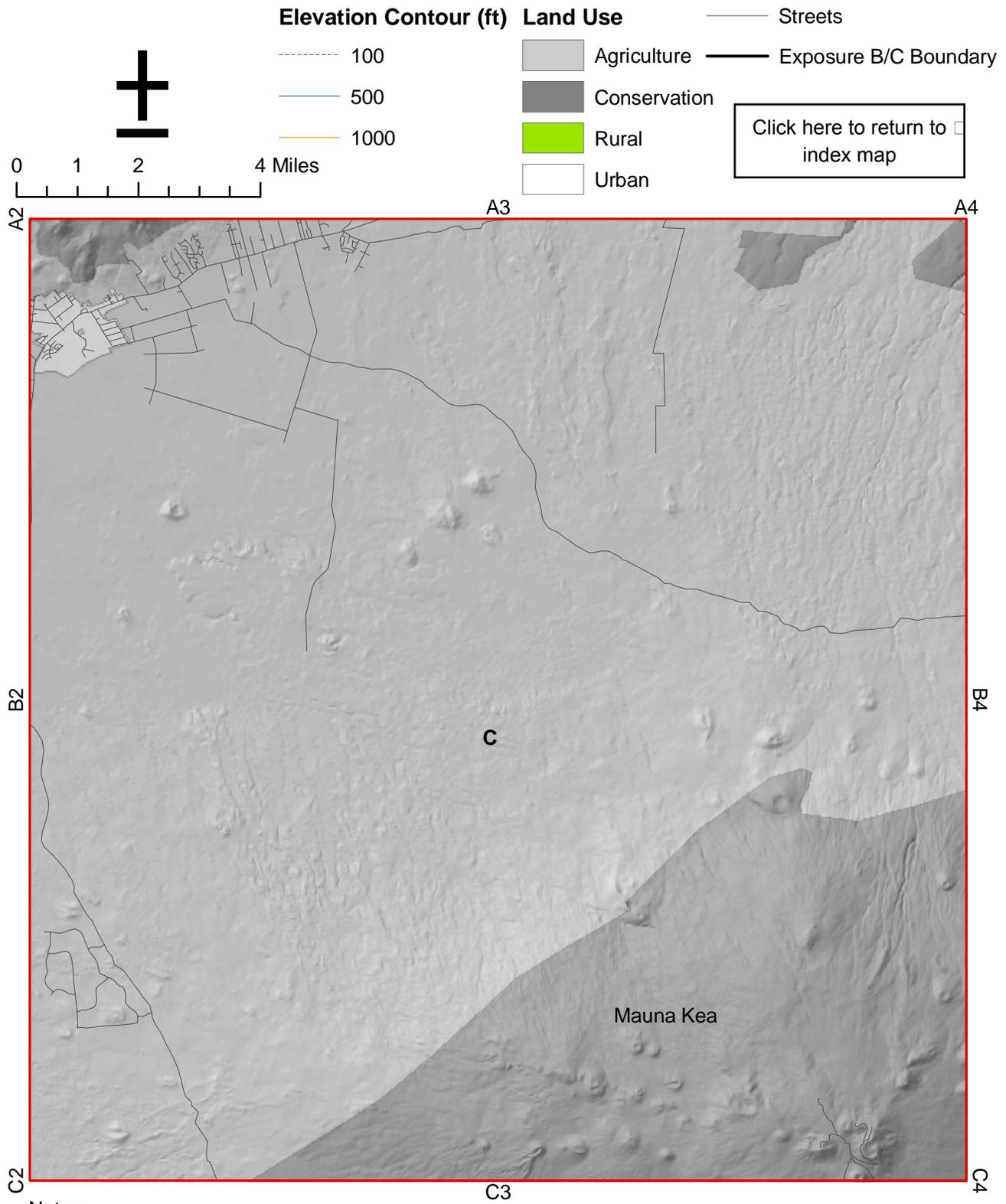
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (B3)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



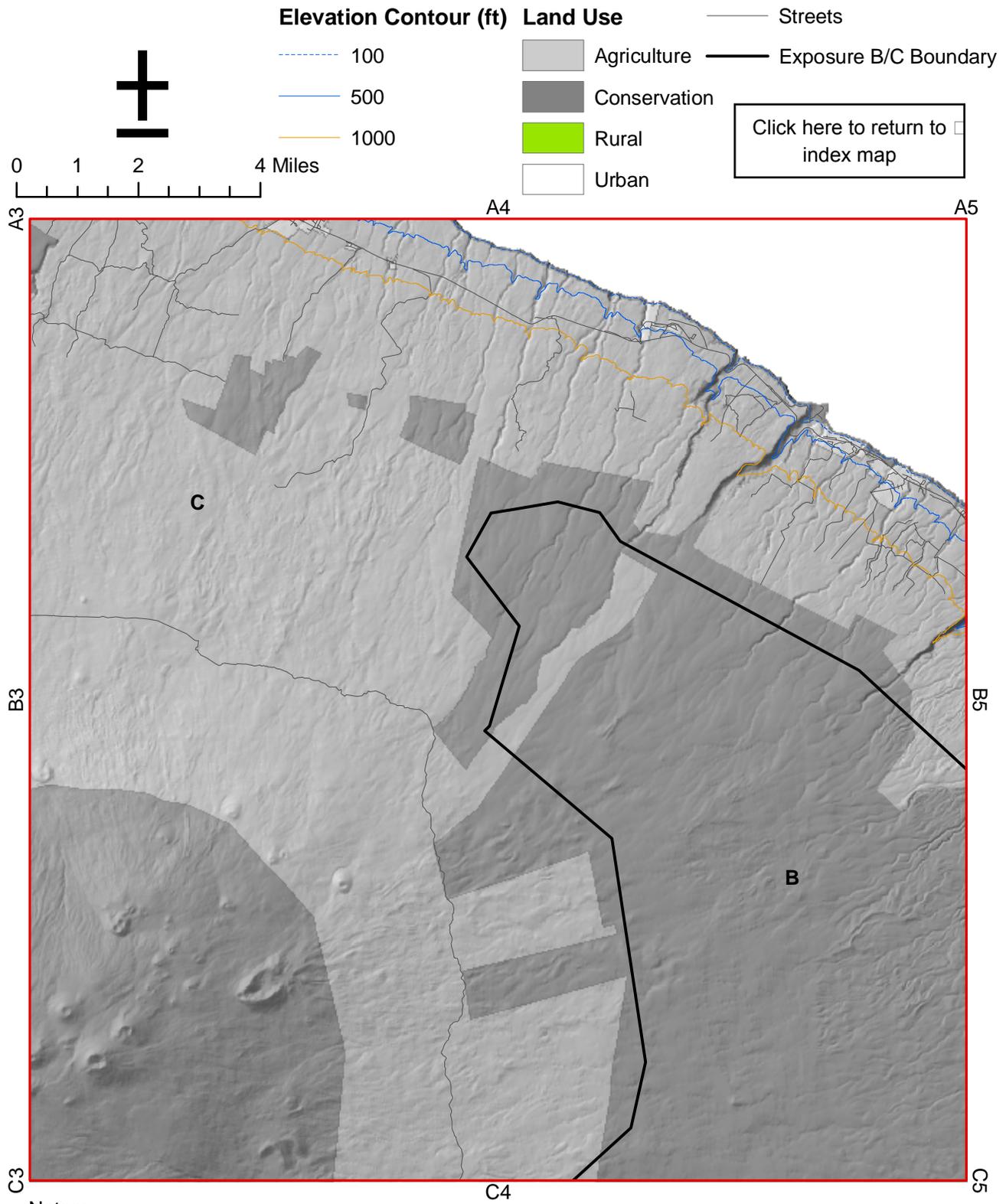
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (B4)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



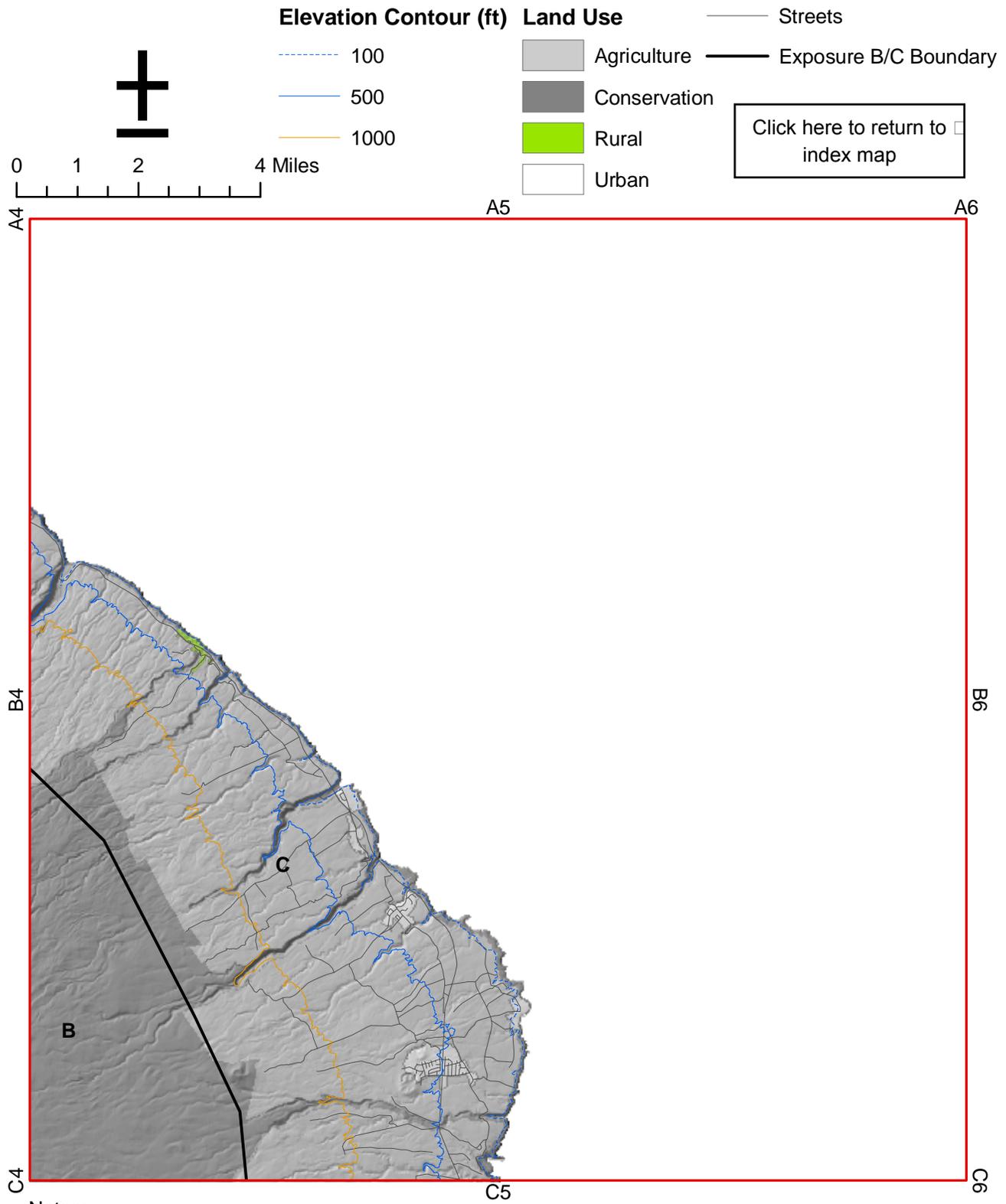
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (B5)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



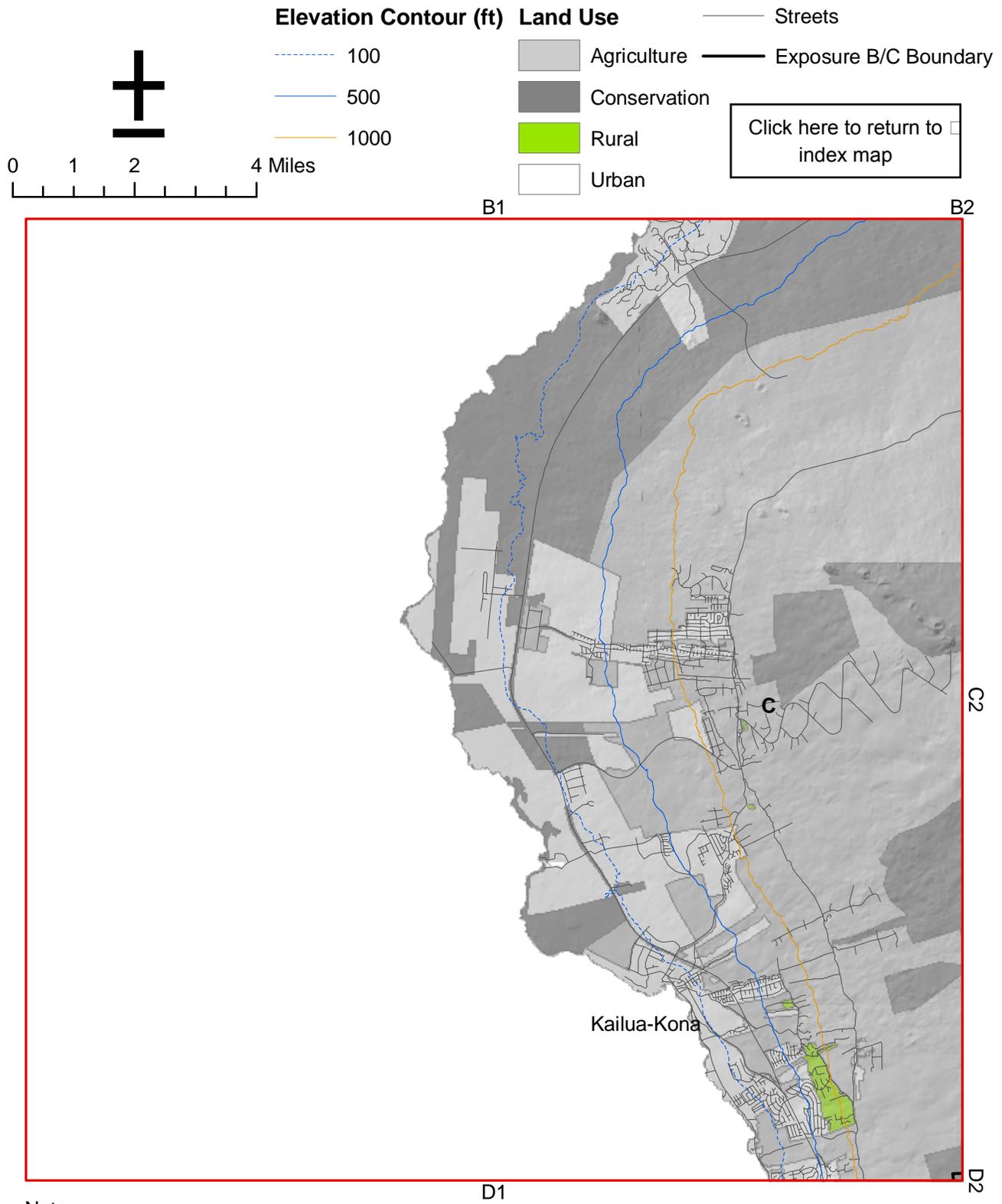
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (C1)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



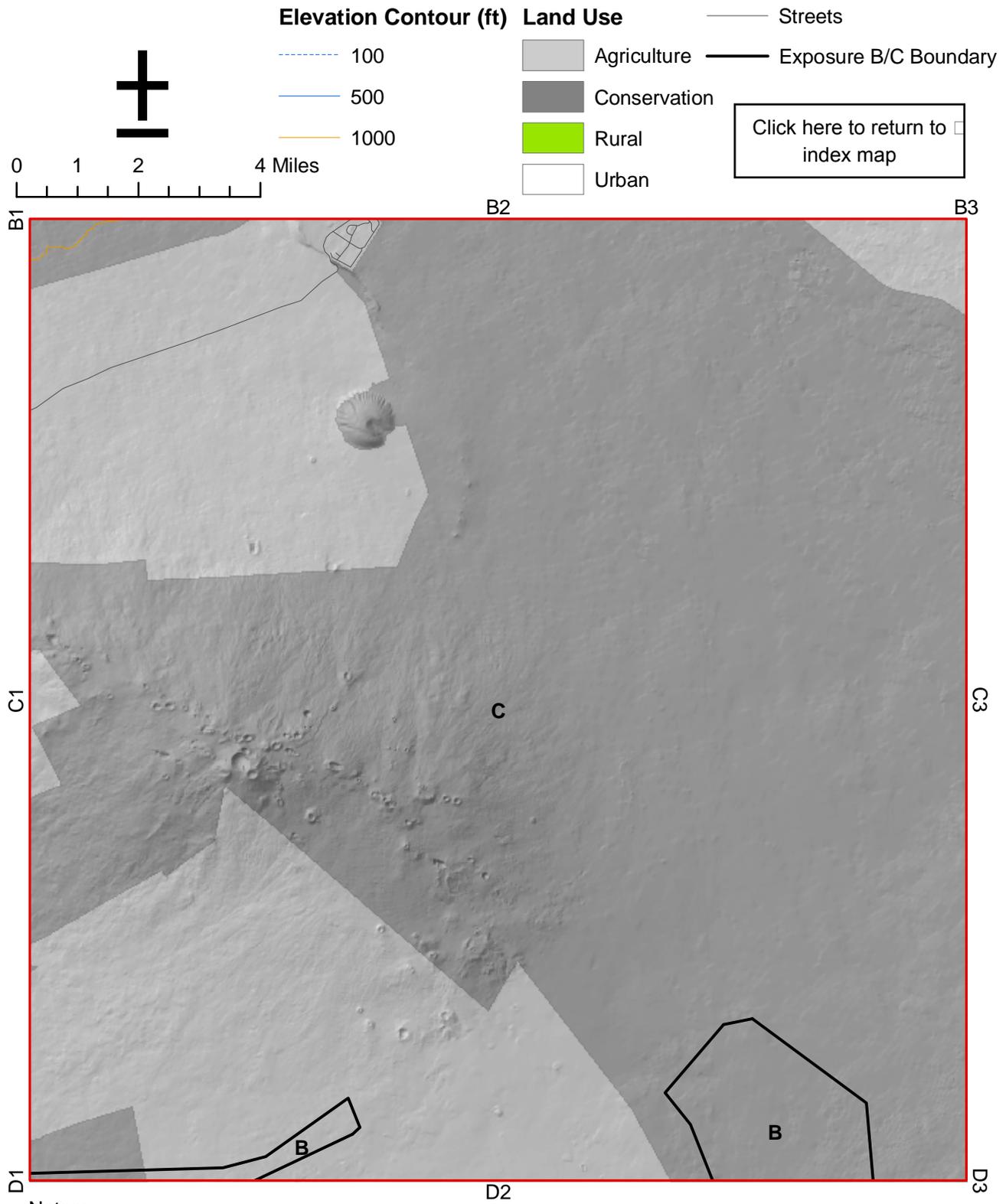
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (C2)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



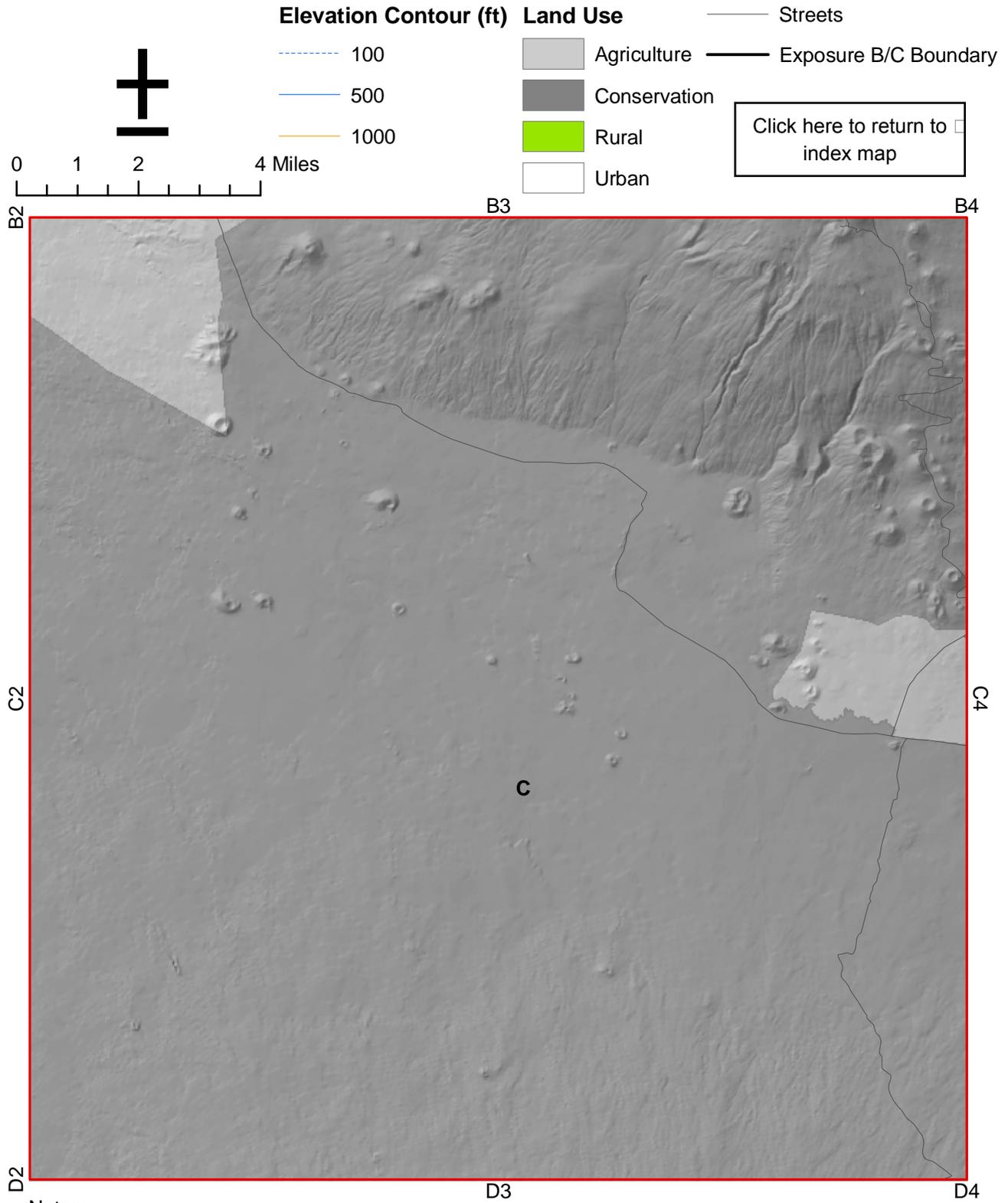
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (C3)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



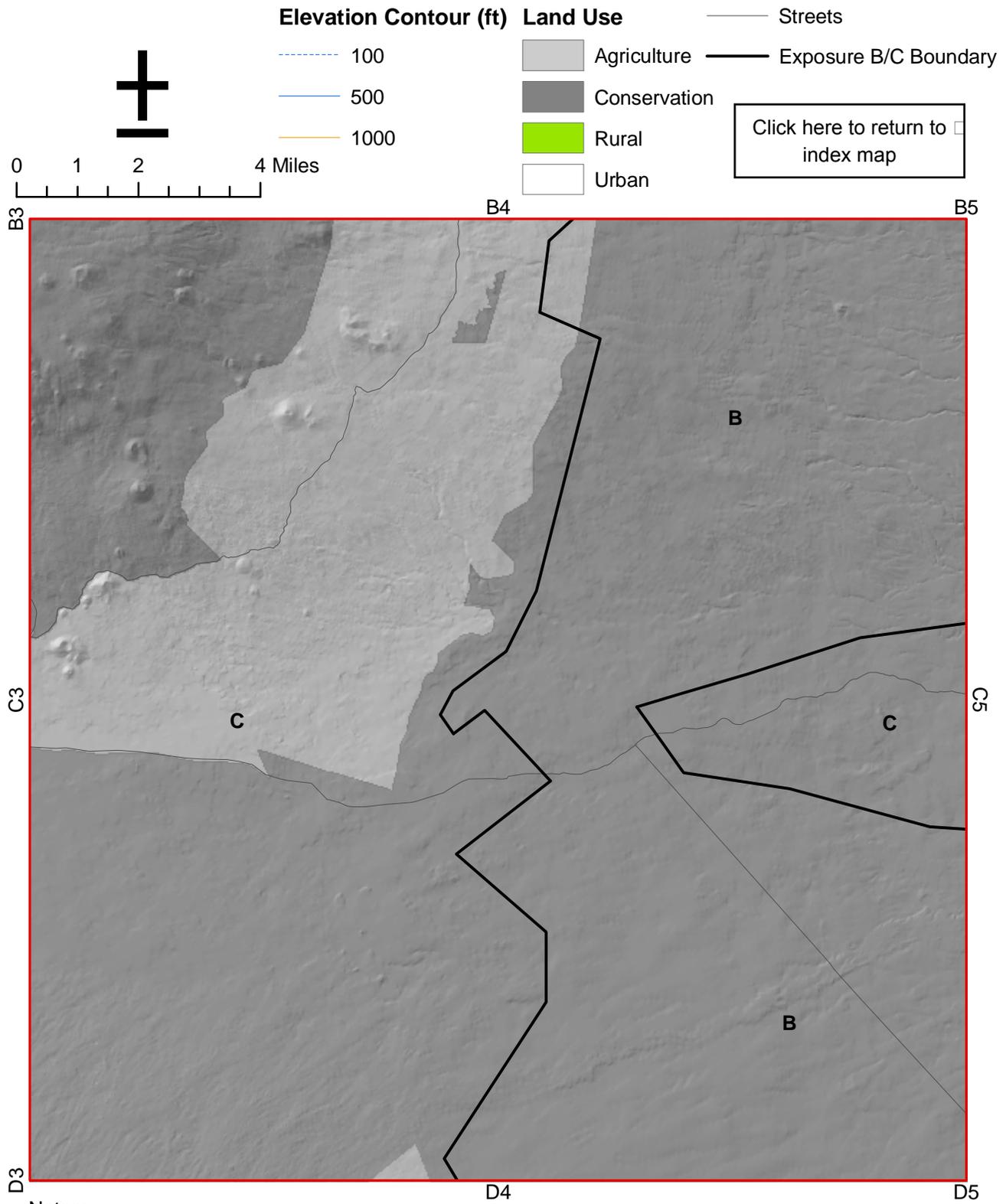
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (C4)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



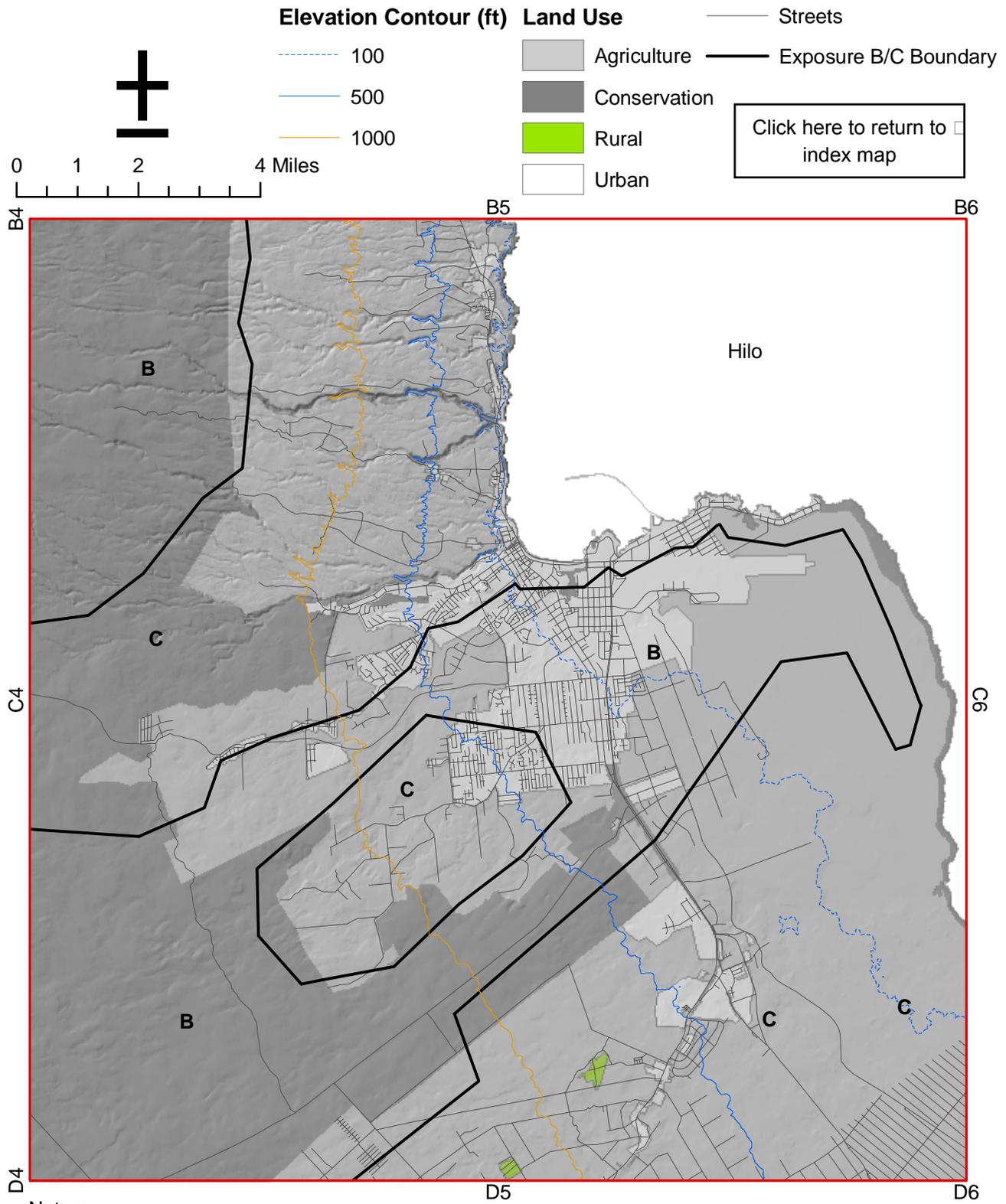
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (C5)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)

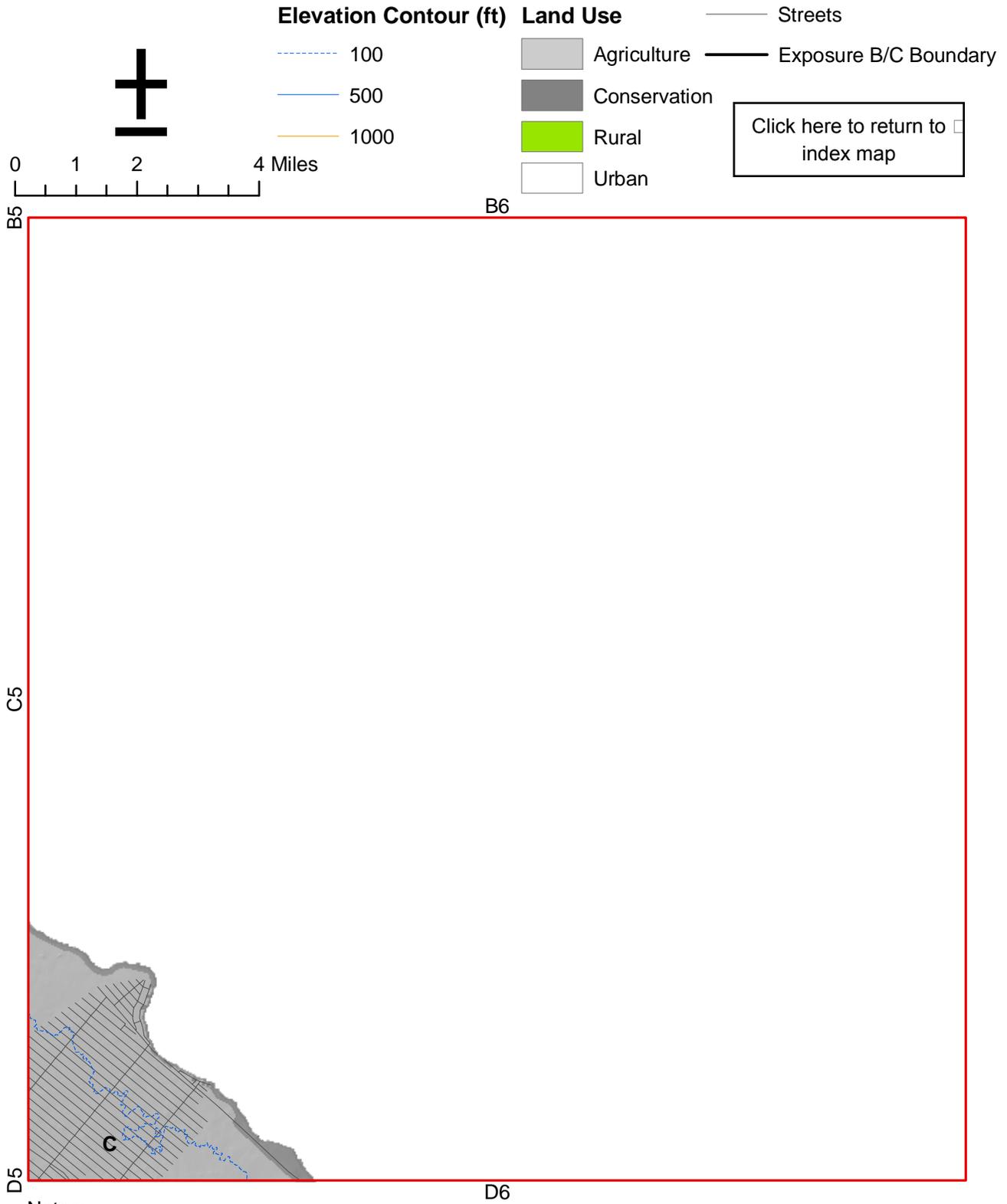


Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (C6)

(for buildings with mean roof height less than 100 ft)
 (Based on NOAA land cover data 2002 and land satellite images)



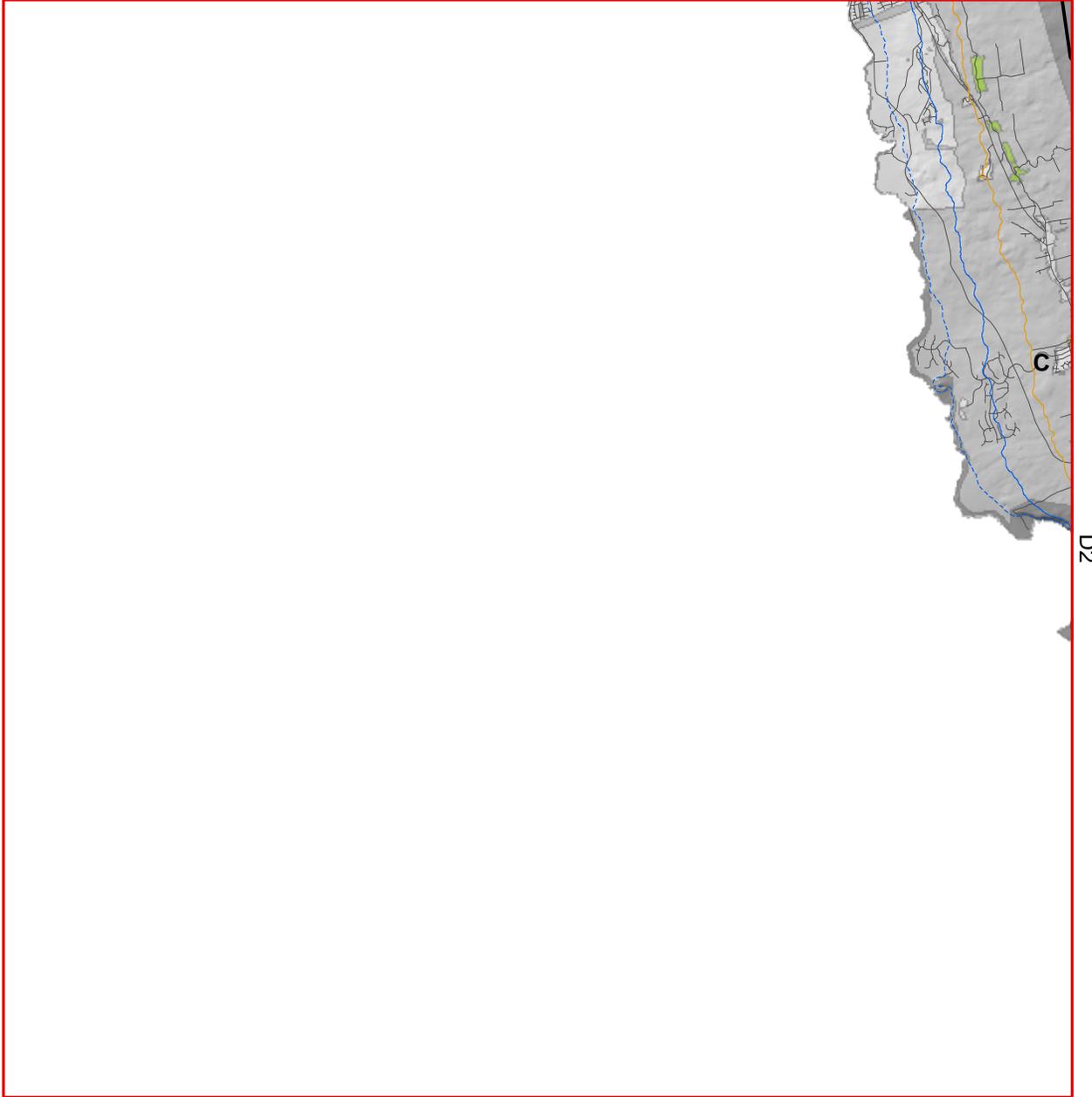
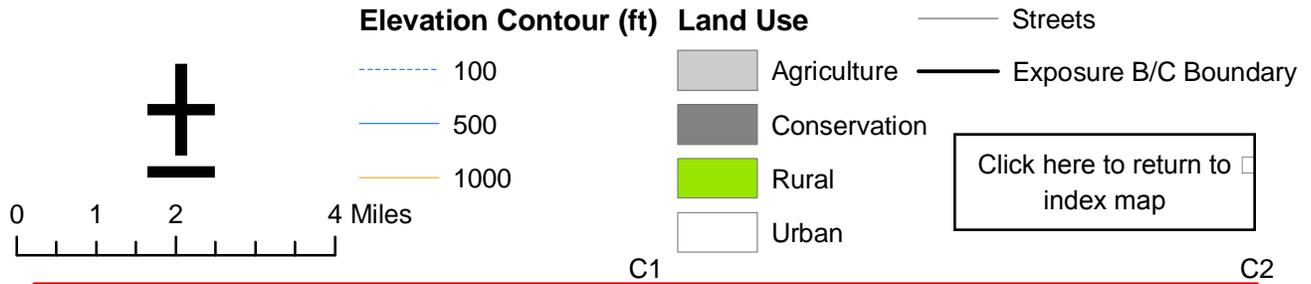
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (D1)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



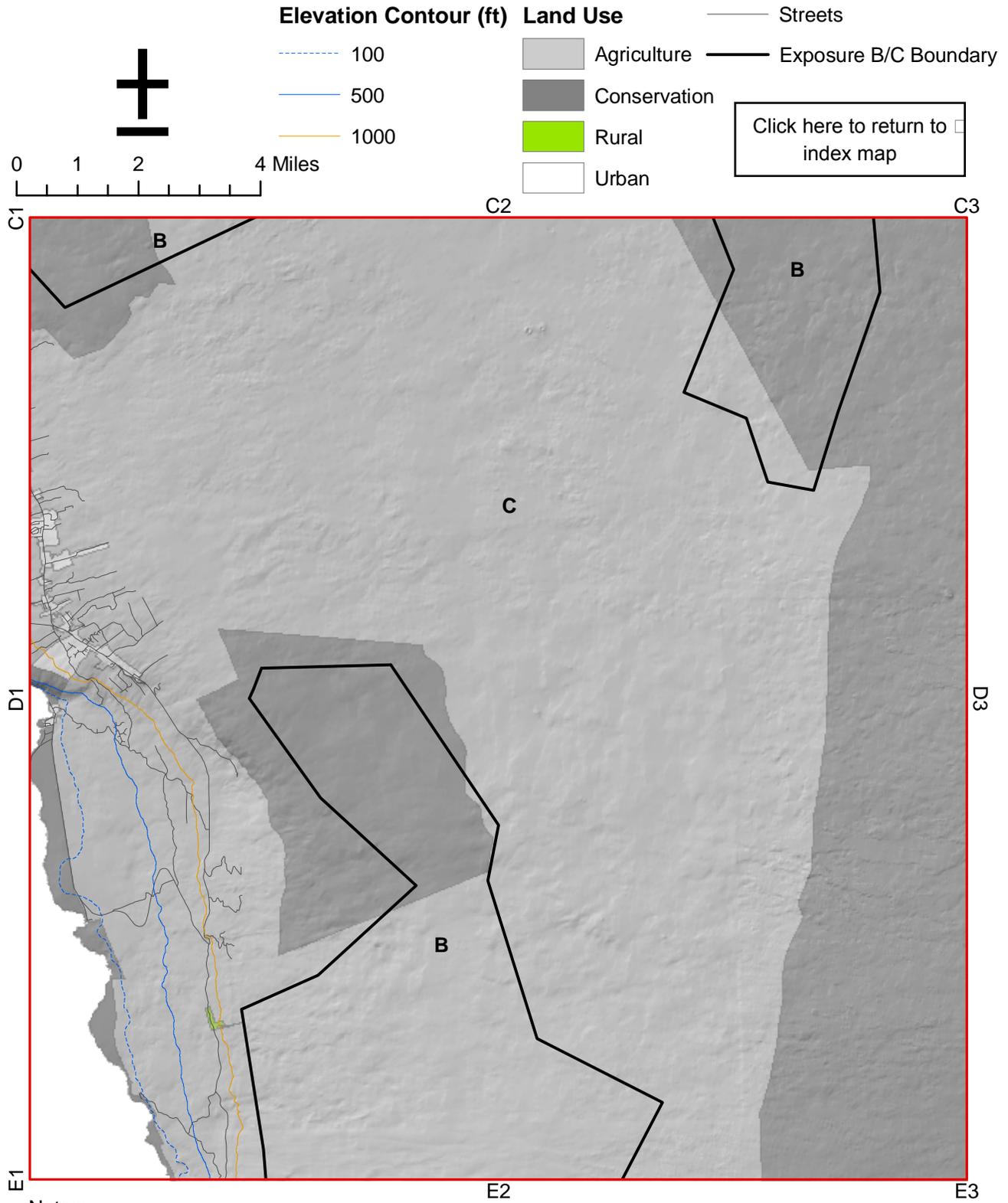
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (D2)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



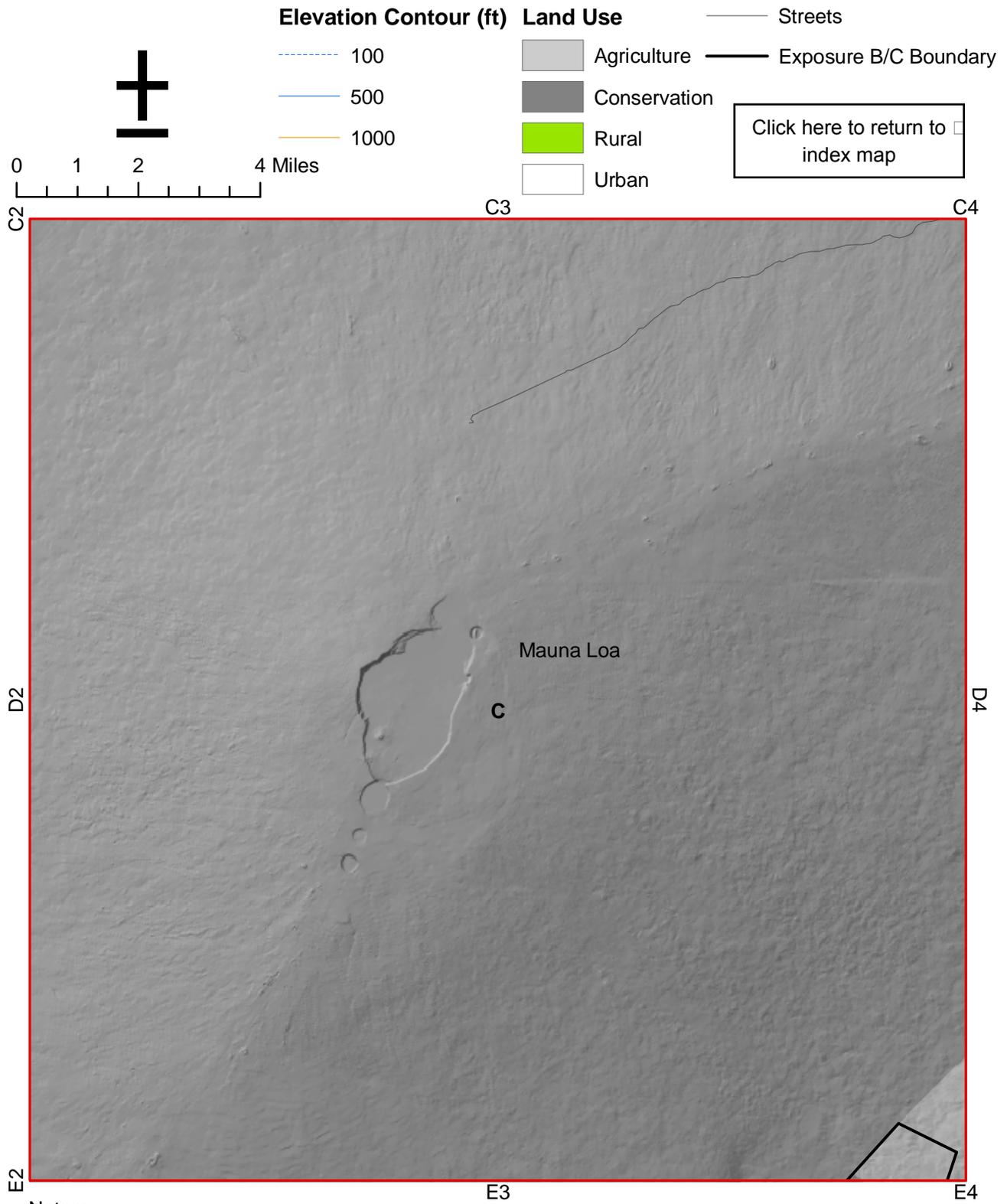
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (D3)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



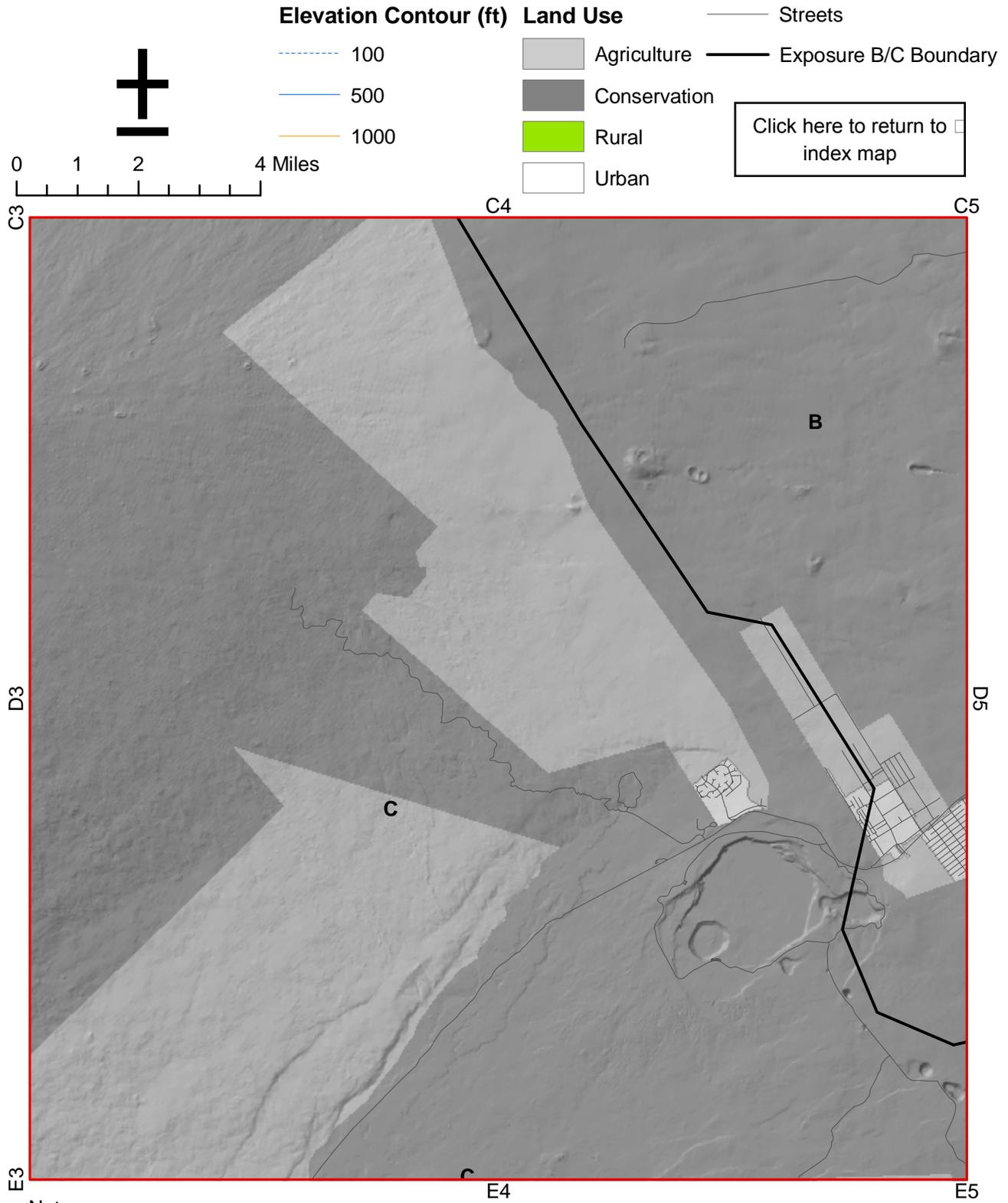
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (D4)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



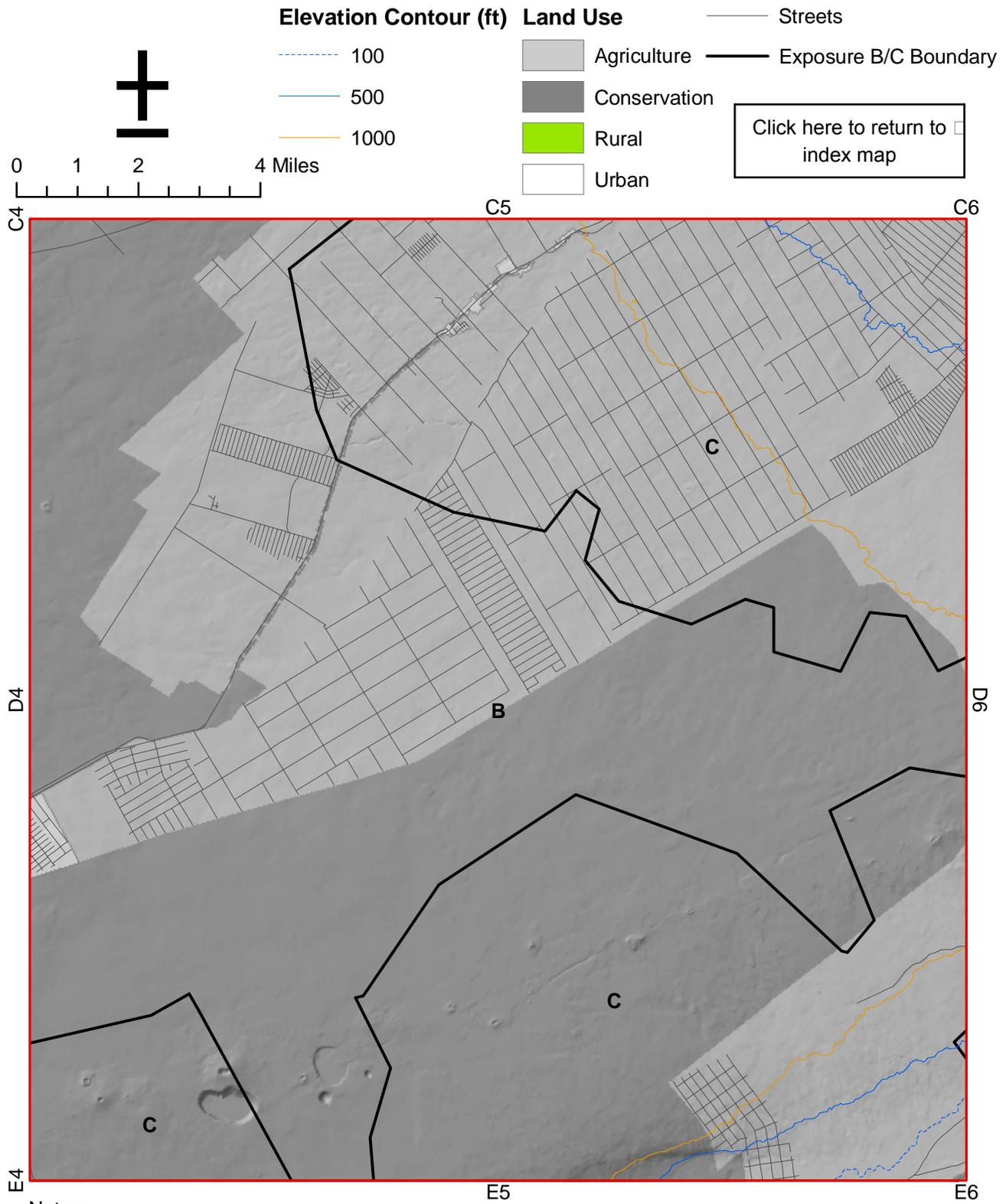
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (D5)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



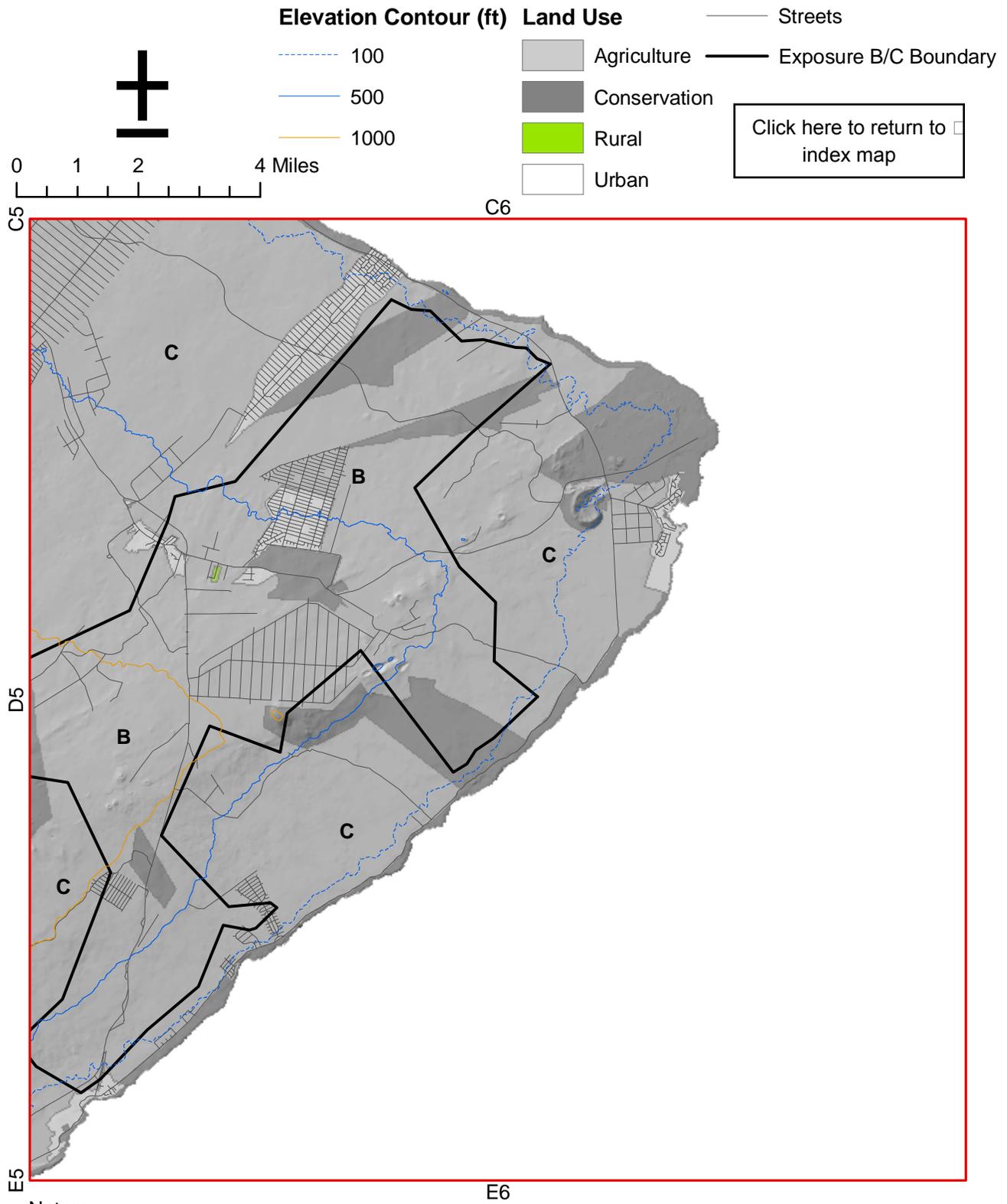
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (D6)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



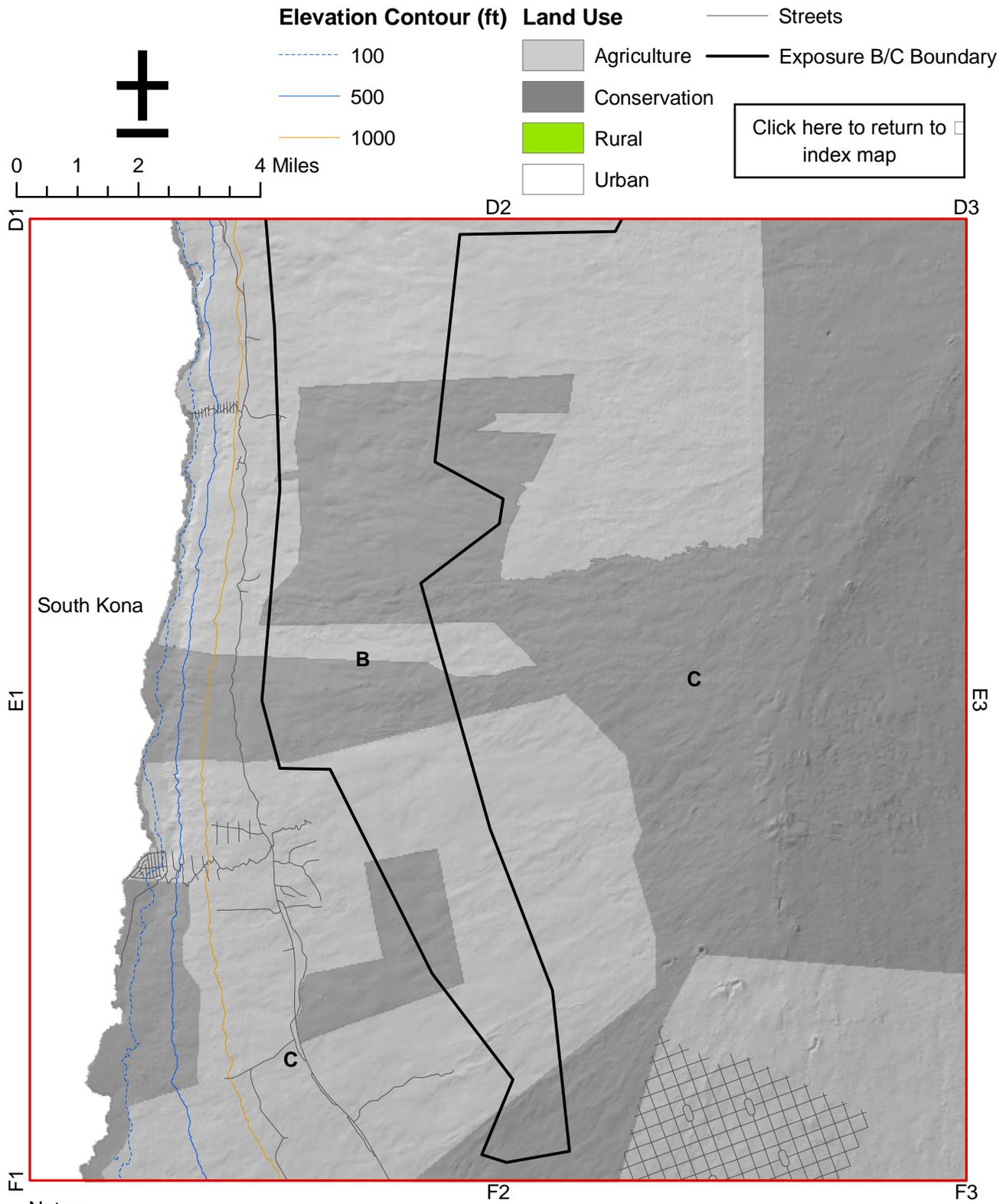
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (E2)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



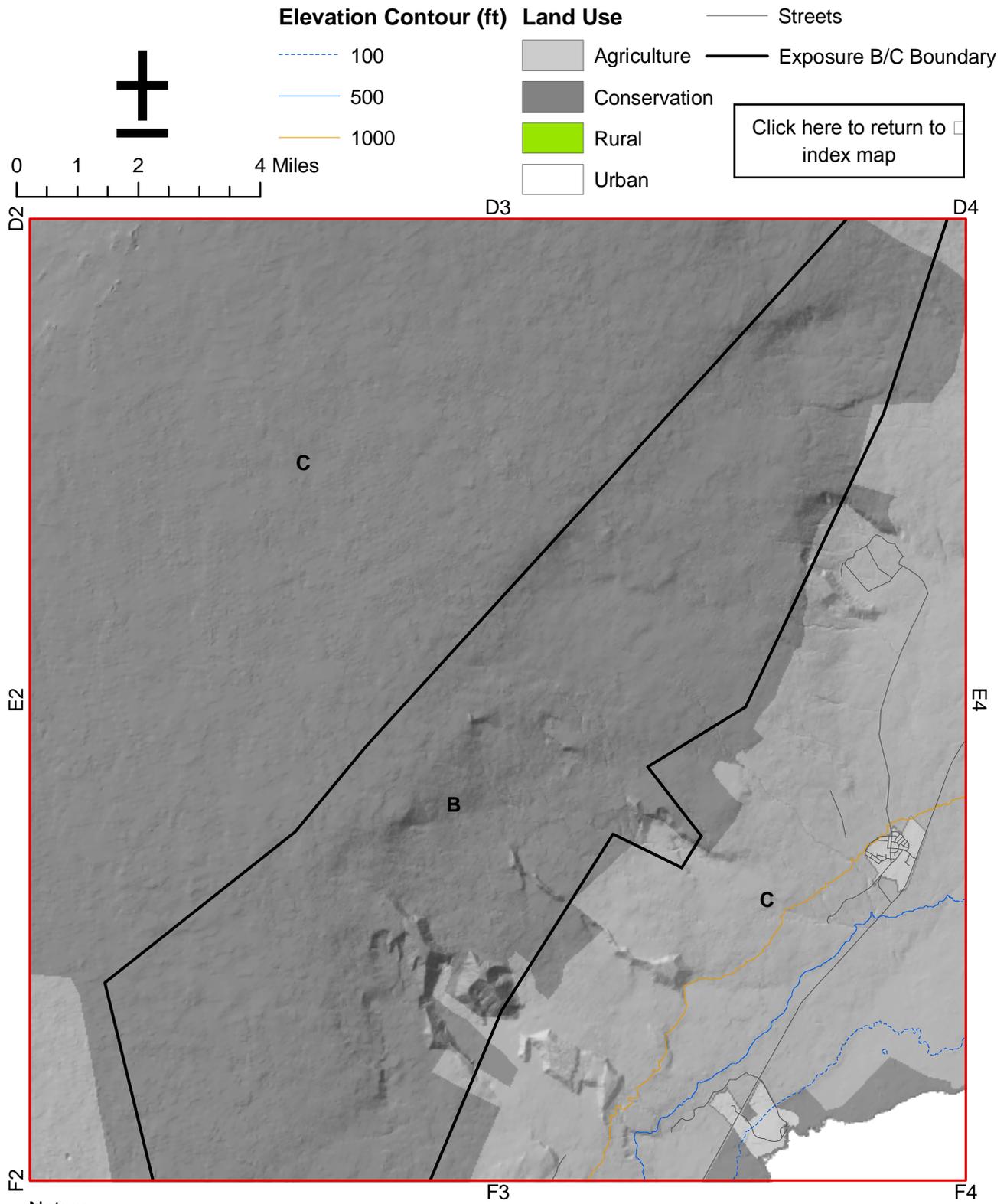
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (E3)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



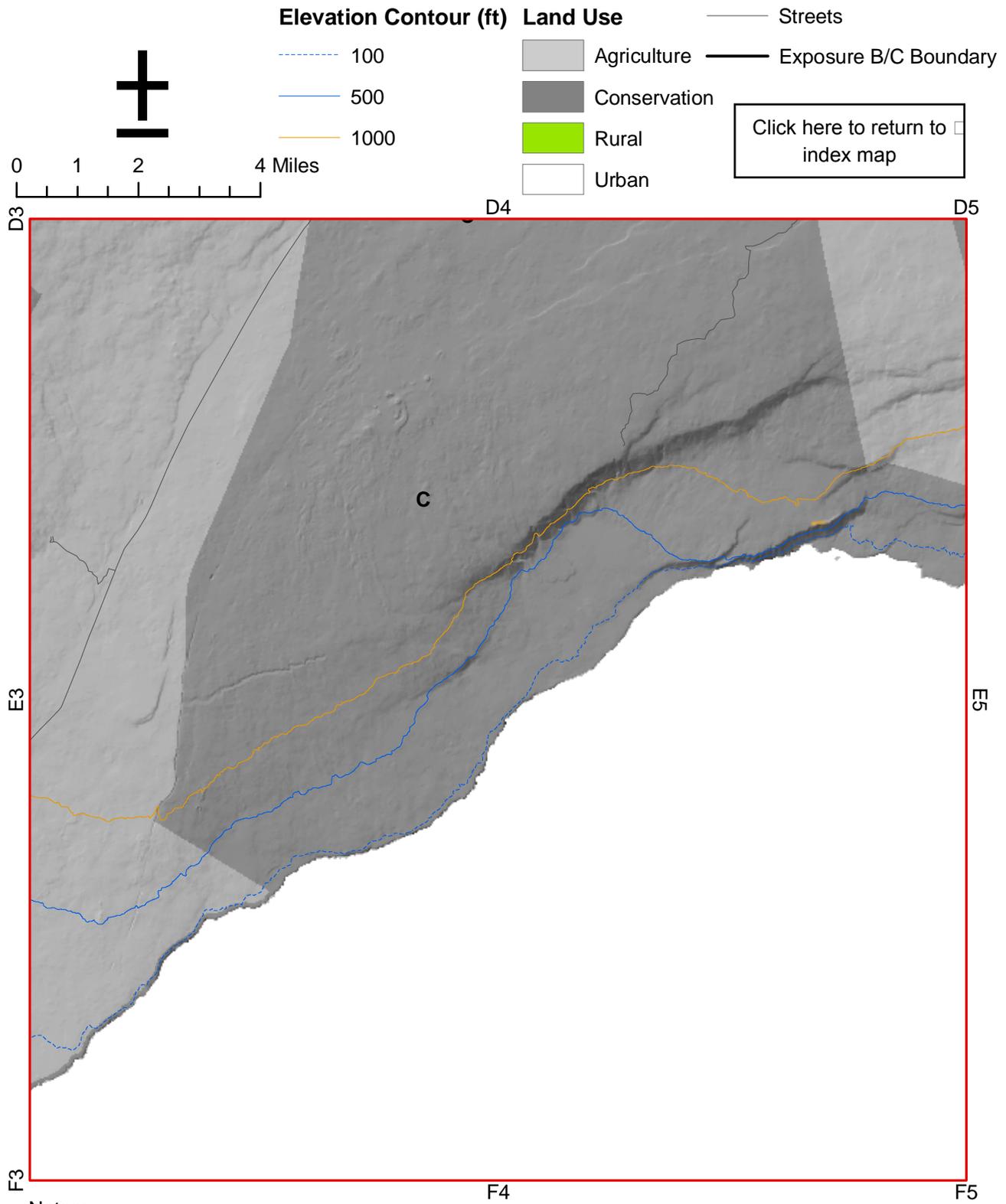
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (E4)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



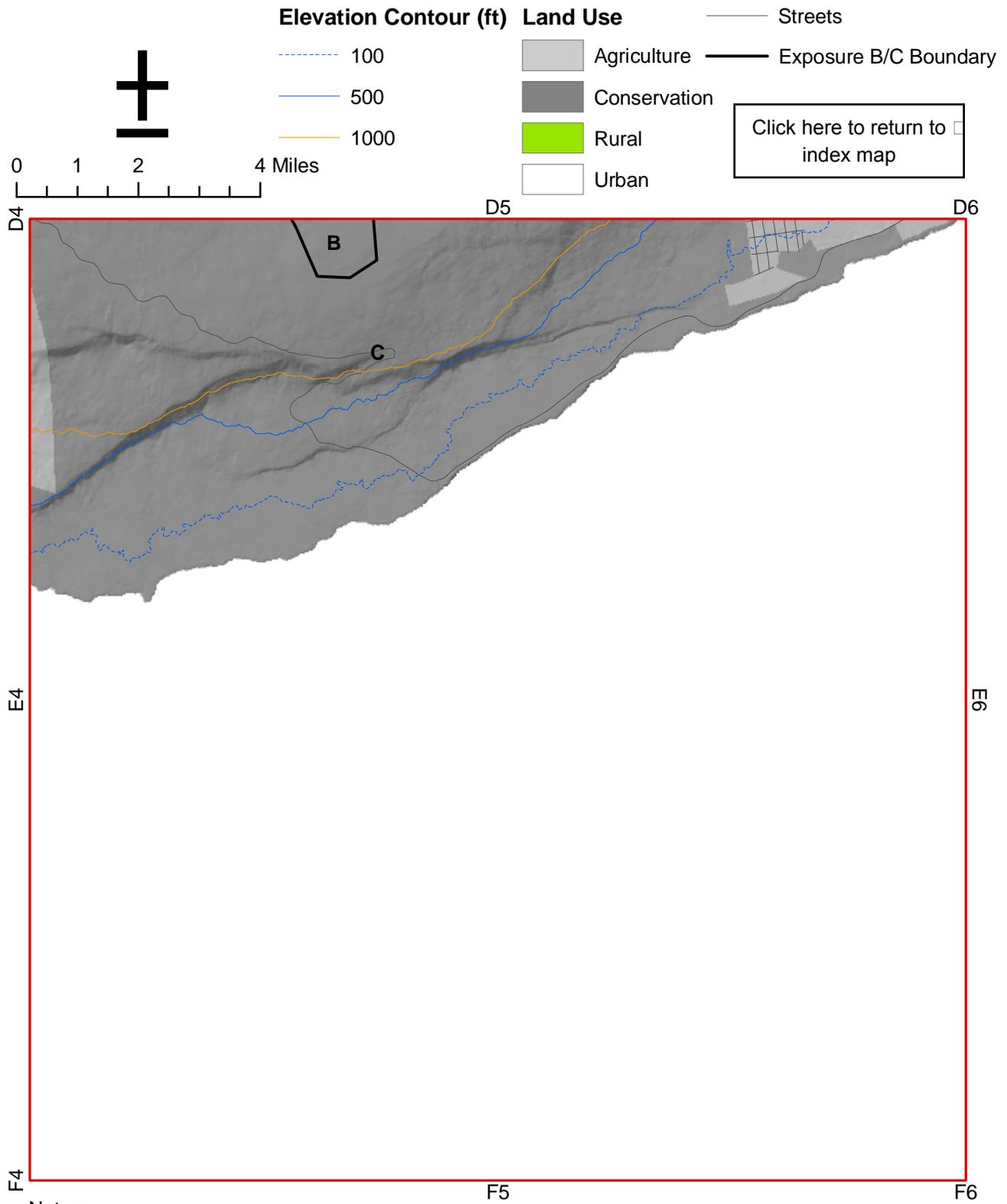
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (E5)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



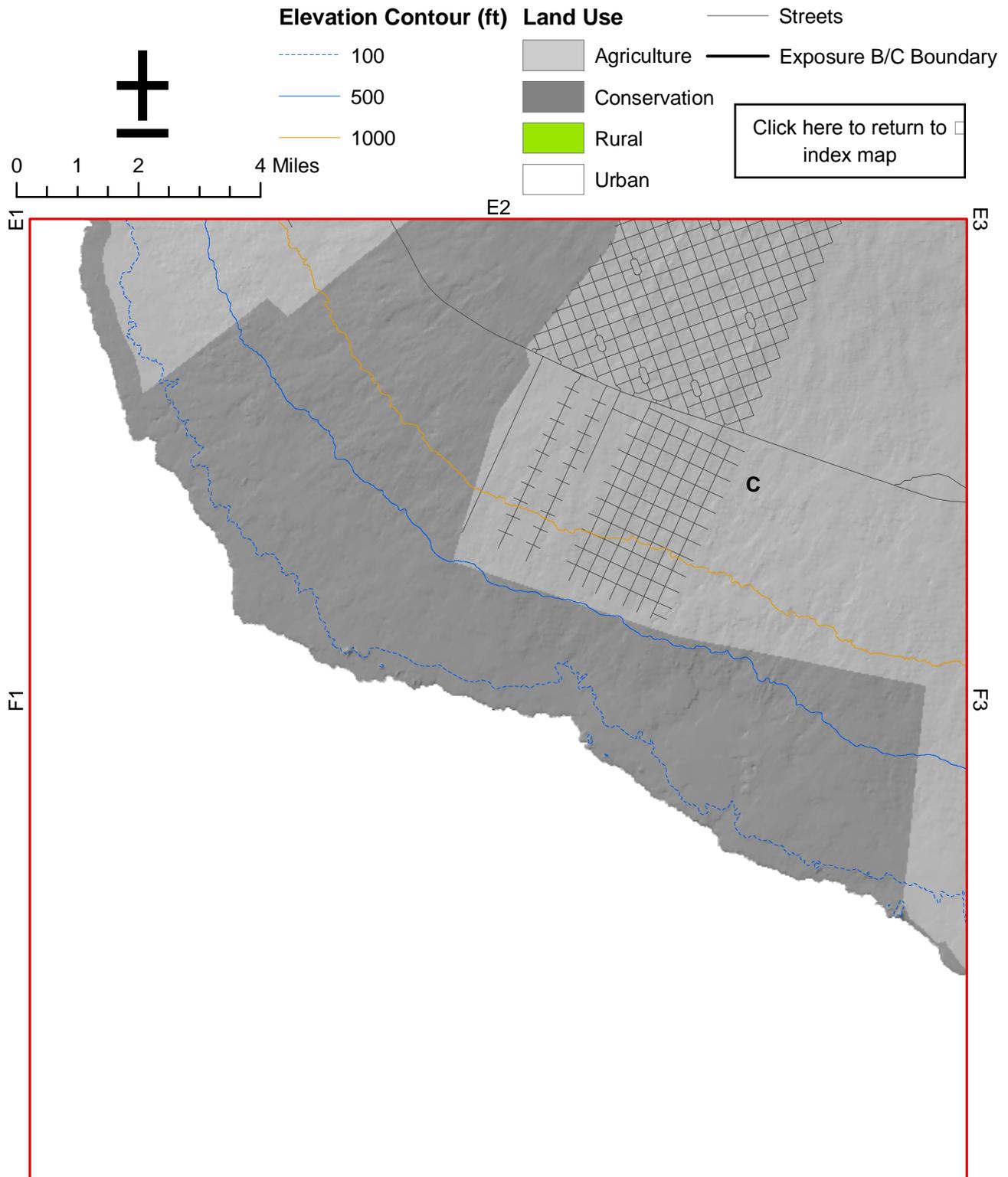
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (F2)

(for buildings with mean roof height less than 100 ft)

(Based on NOAA land cover data 2002 and land satellite images)



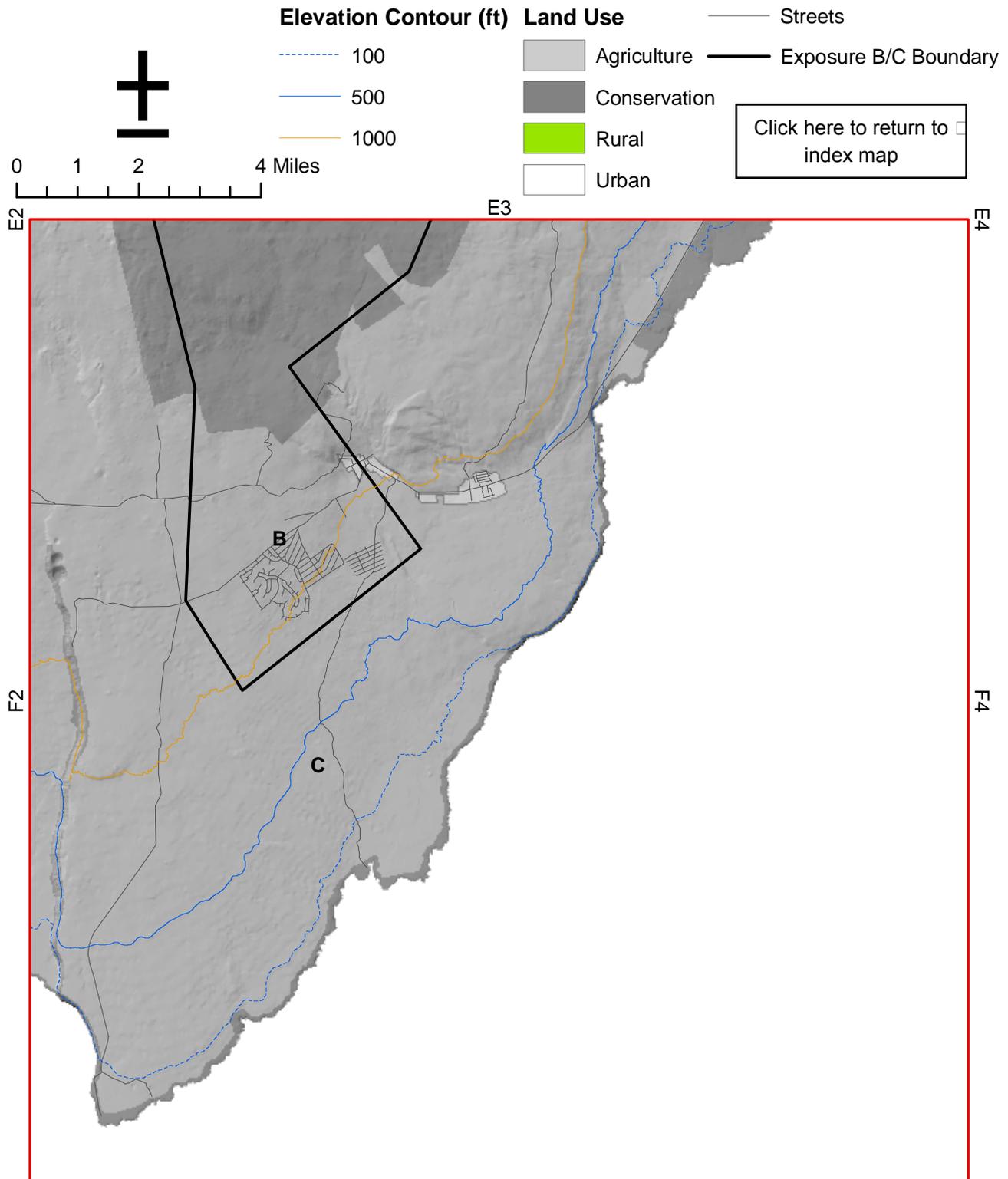
Notes:

1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Exposure Category Zones for the Island of Hawaii (F3)

(for buildings with mean roof height less than 100 ft)

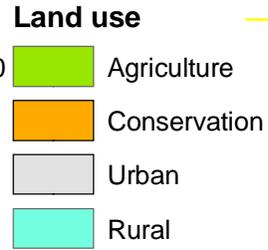
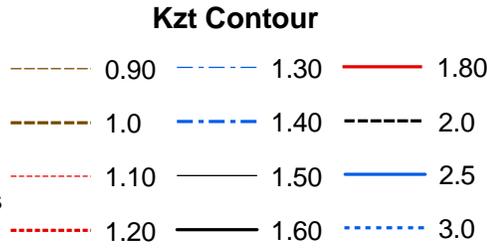
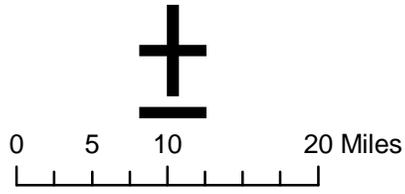
(Based on NOAA land cover data 2002 and land satellite images)



Notes:

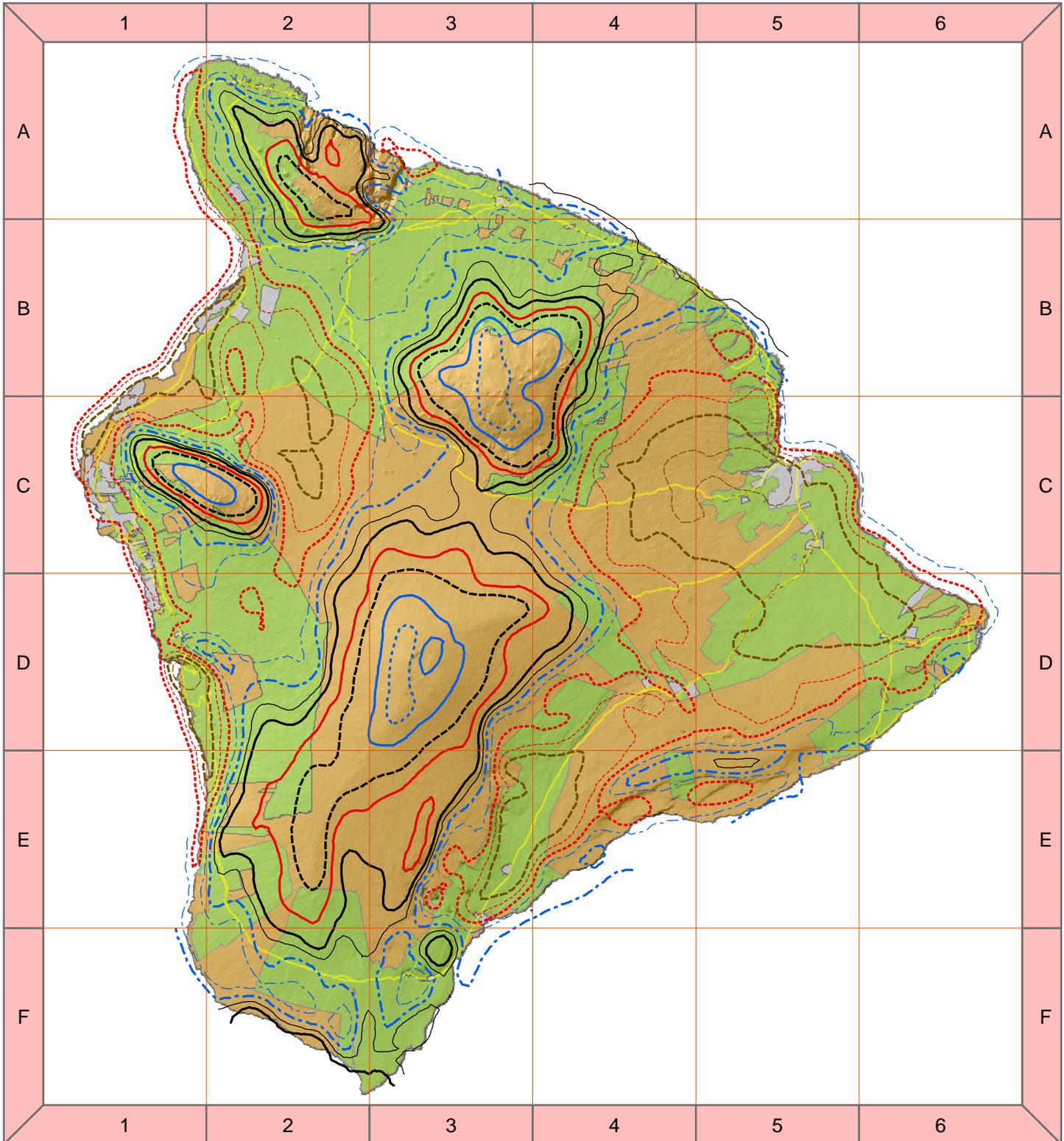
1. Intermediate exposures between categories B and C are permitted when substantiated per ASCE 7.
2. For buildings whose mean roof height is less than or equal to 30 ft, exposure category shall be permitted to be evaluated per Section 1609.4.
3. For buildings whose height is equal to or greater than 100 ft, exposure category shall be determined per Section 1609.4.1.

Wind Topographic Factor (Kzt) for the Island of Hawaii

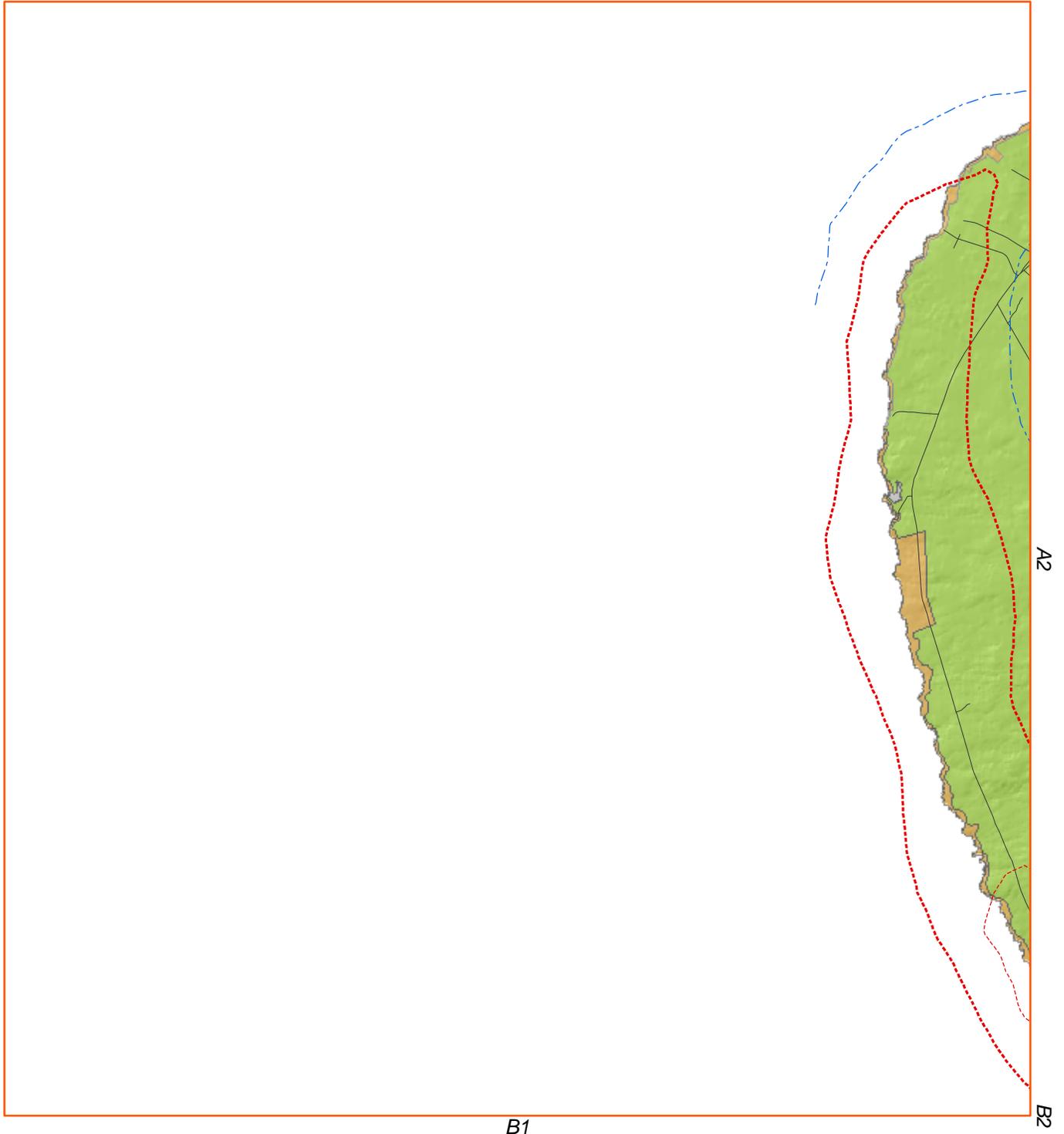
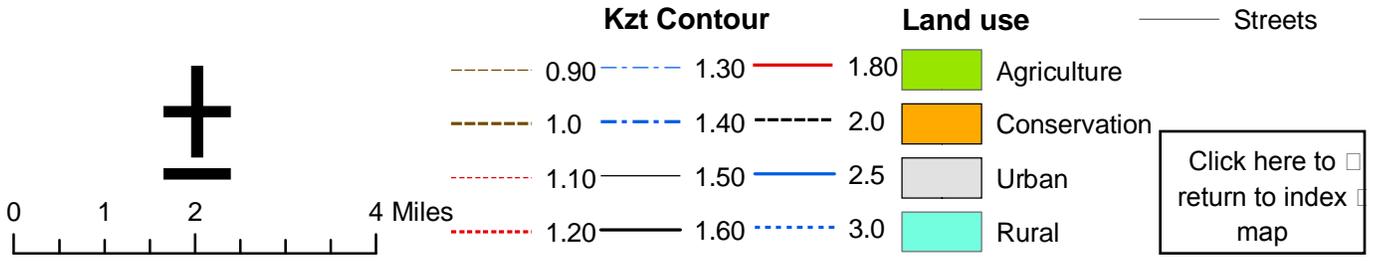


Major Roads

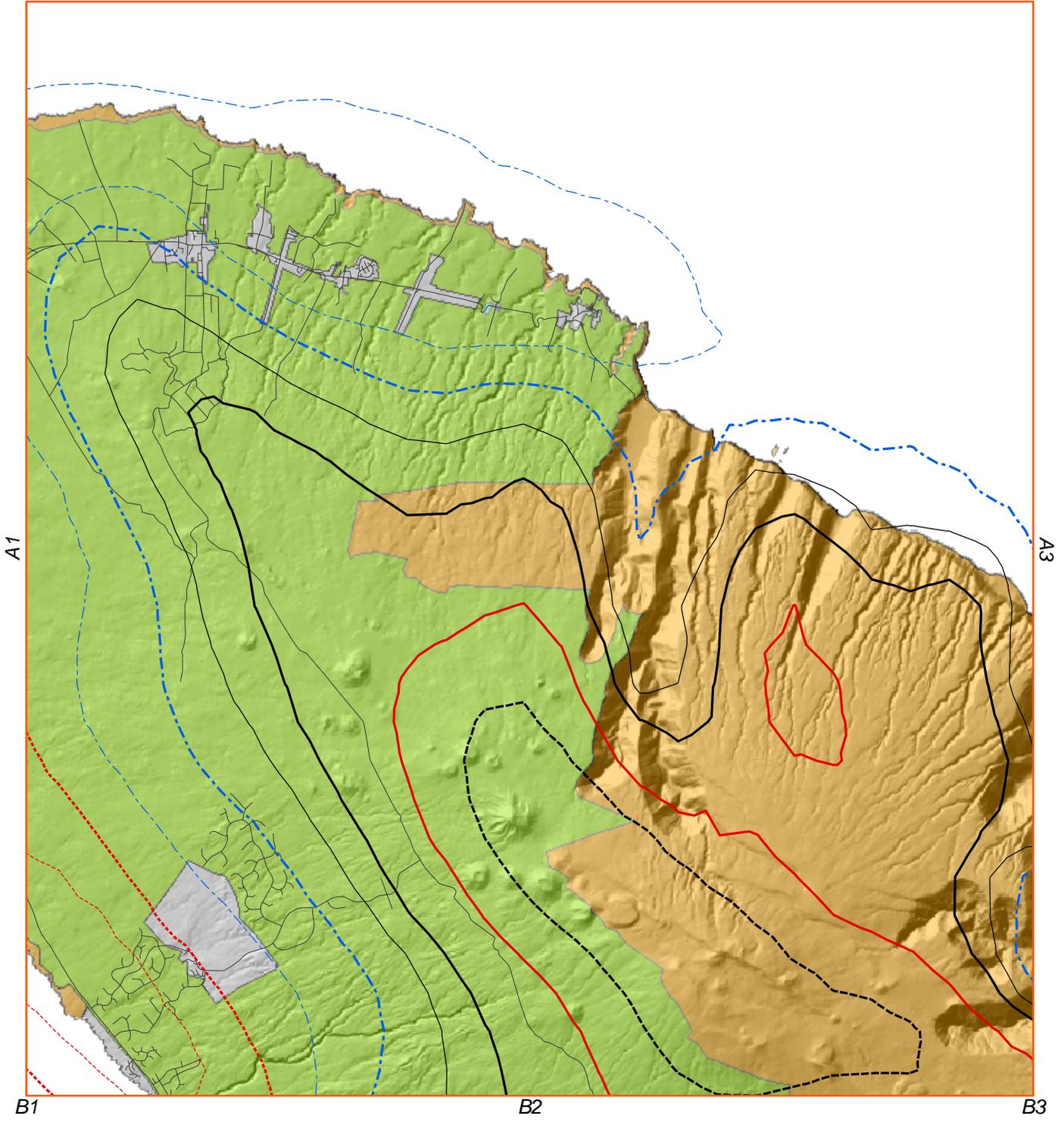
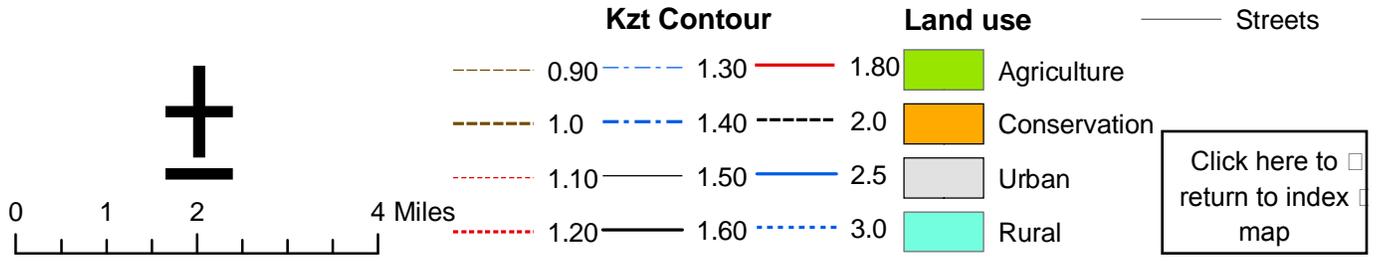
Click your area of interest to view enlarged map



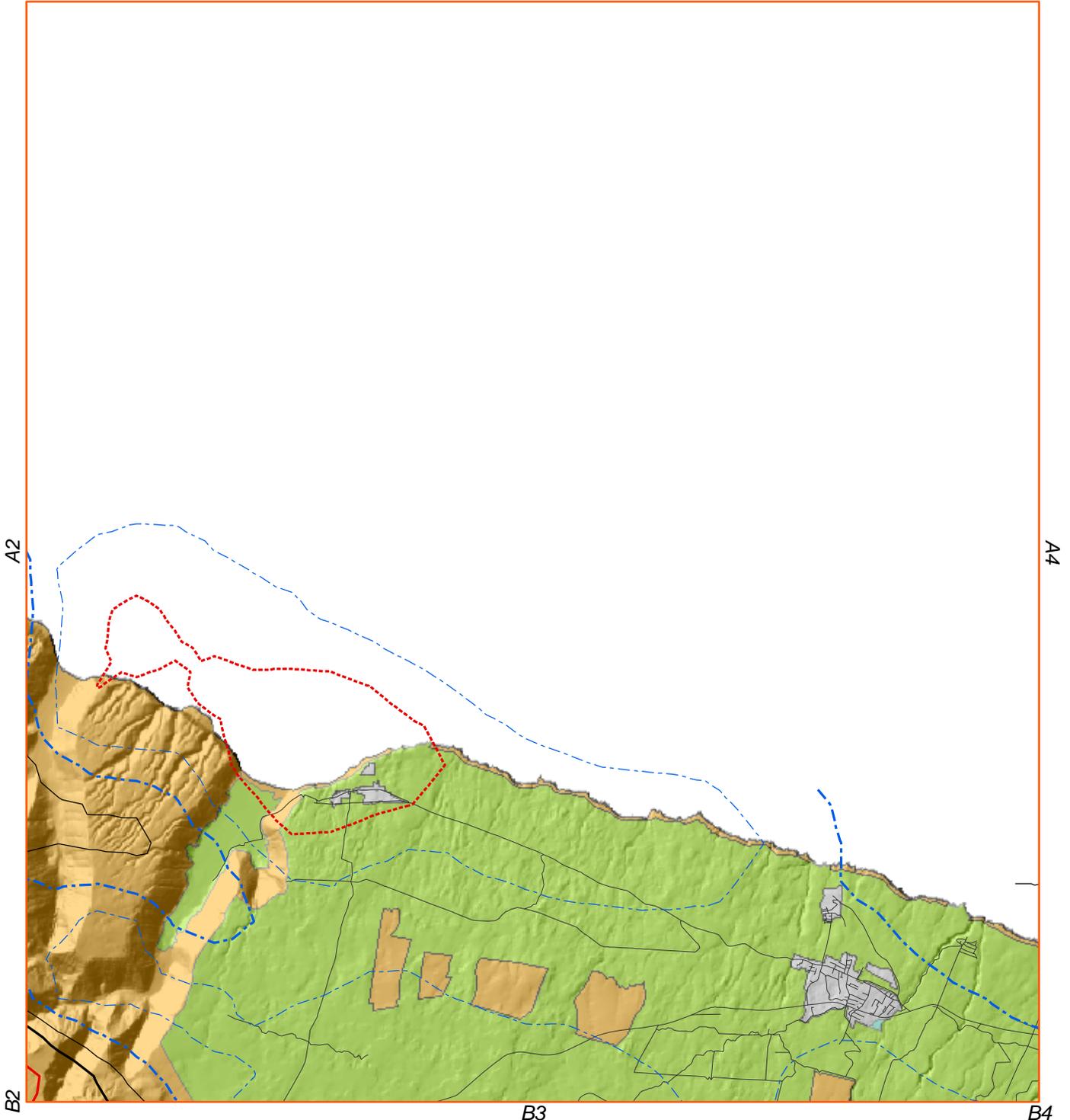
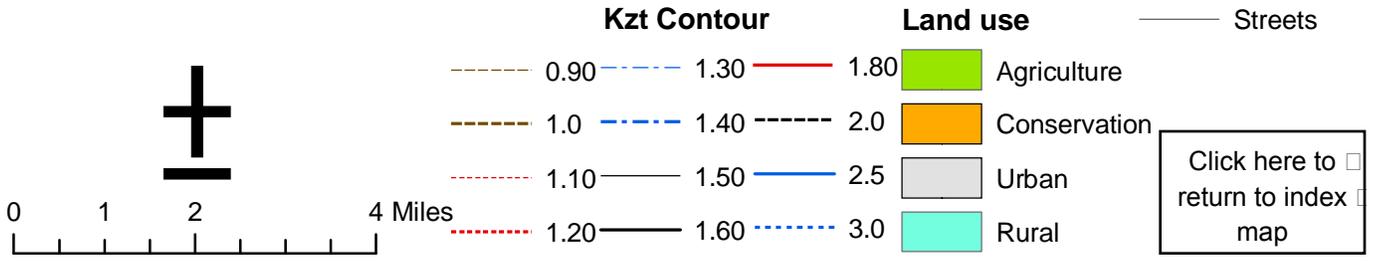
Wind Topographic Factor (Kzt) for the Island of Hawaii (A1)



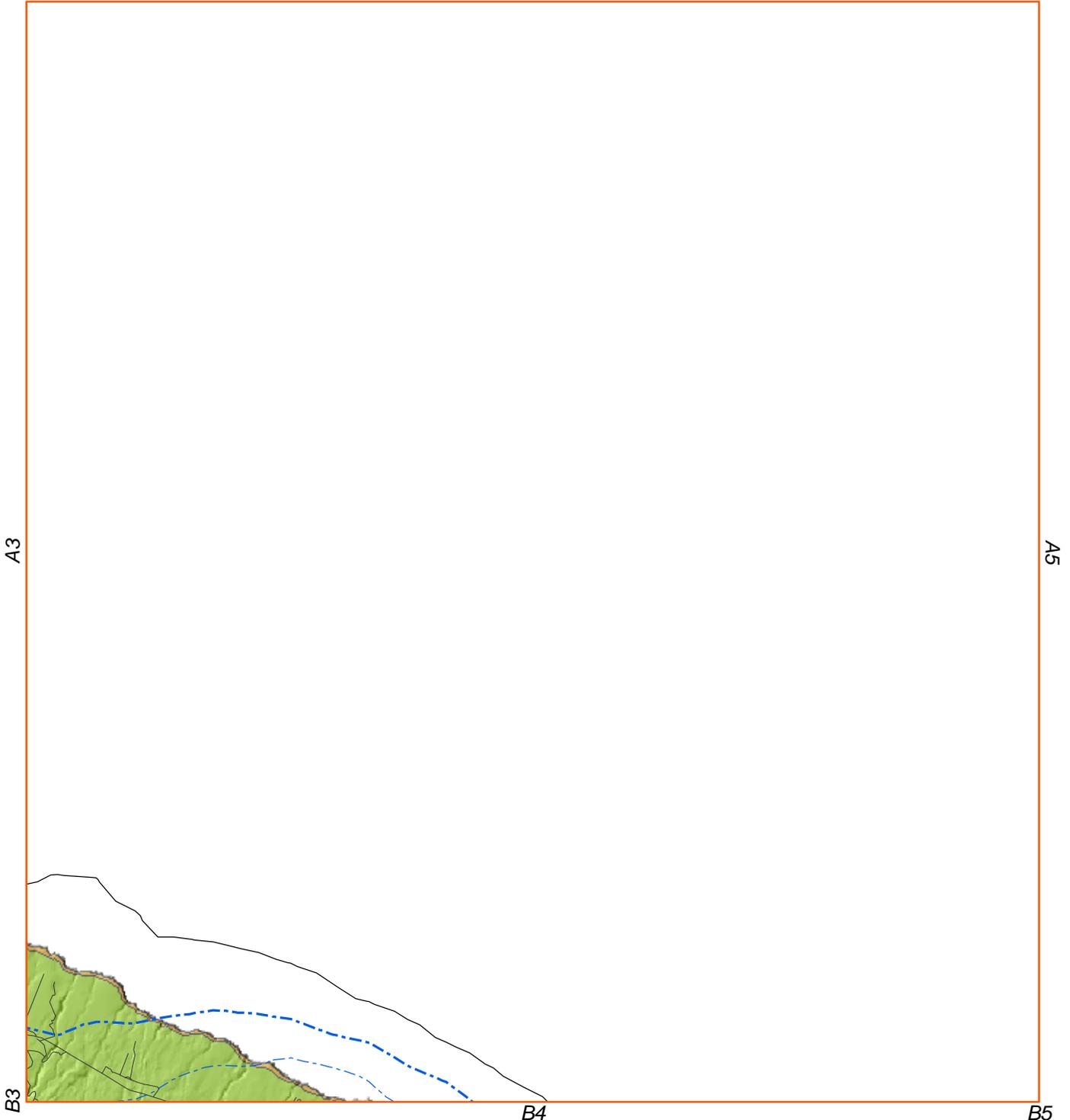
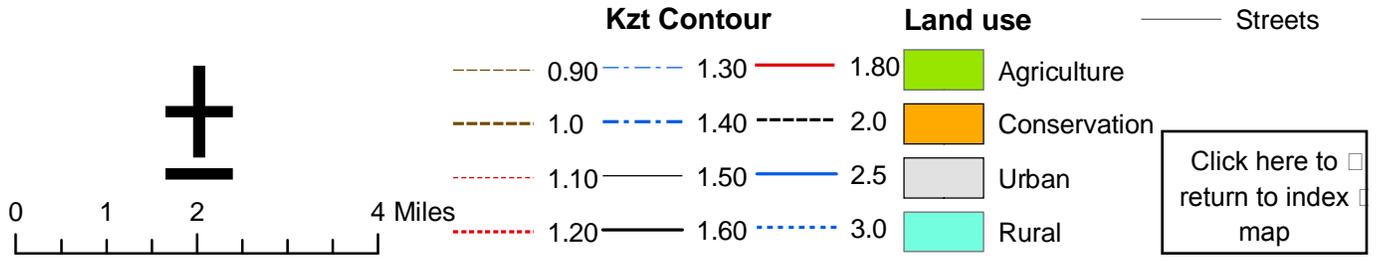
Wind Topographic Factor (Kzt) for the Island of Hawaii (A2)



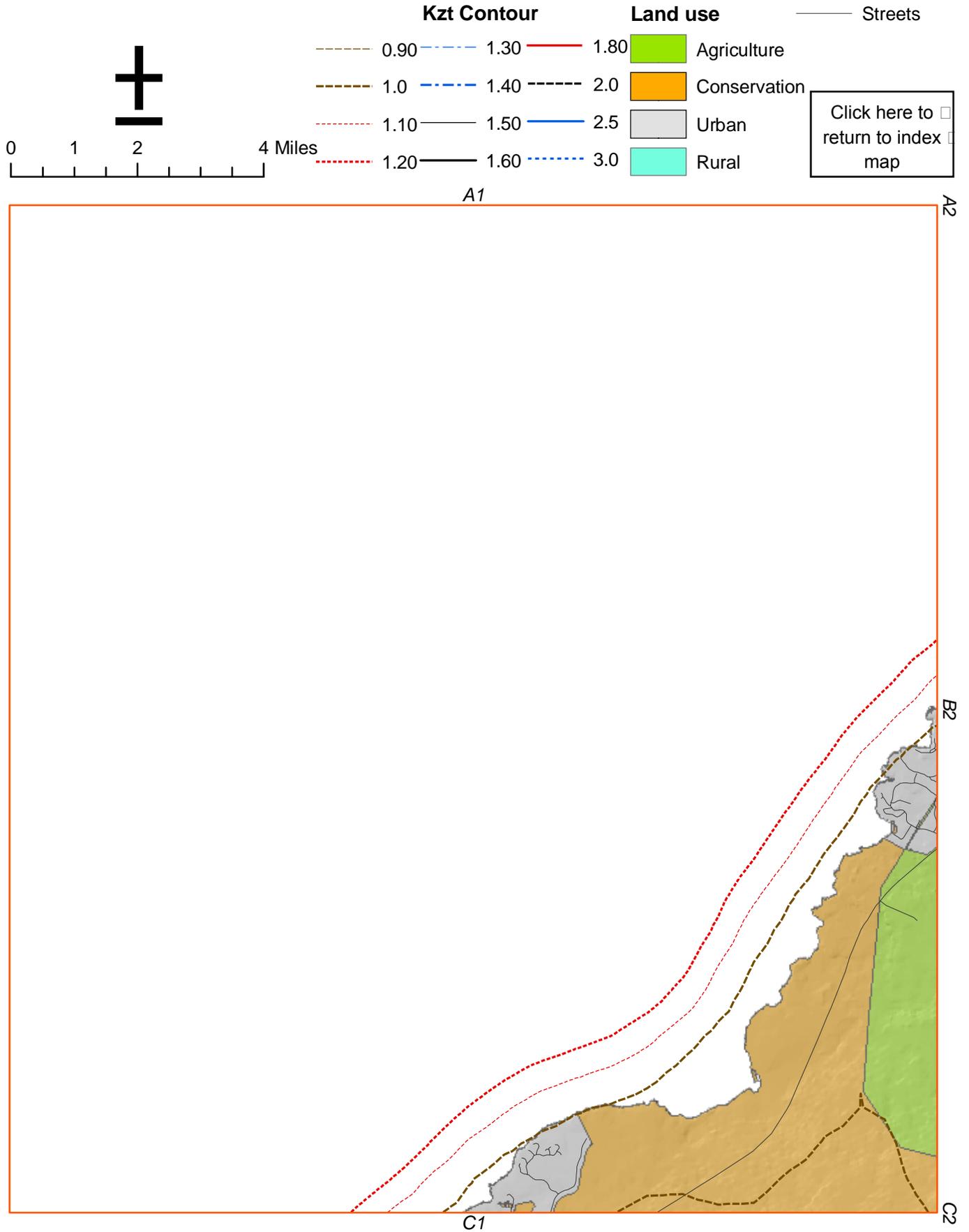
Wind Topographic Factor (Kzt) for the Island of Hawaii (A3)



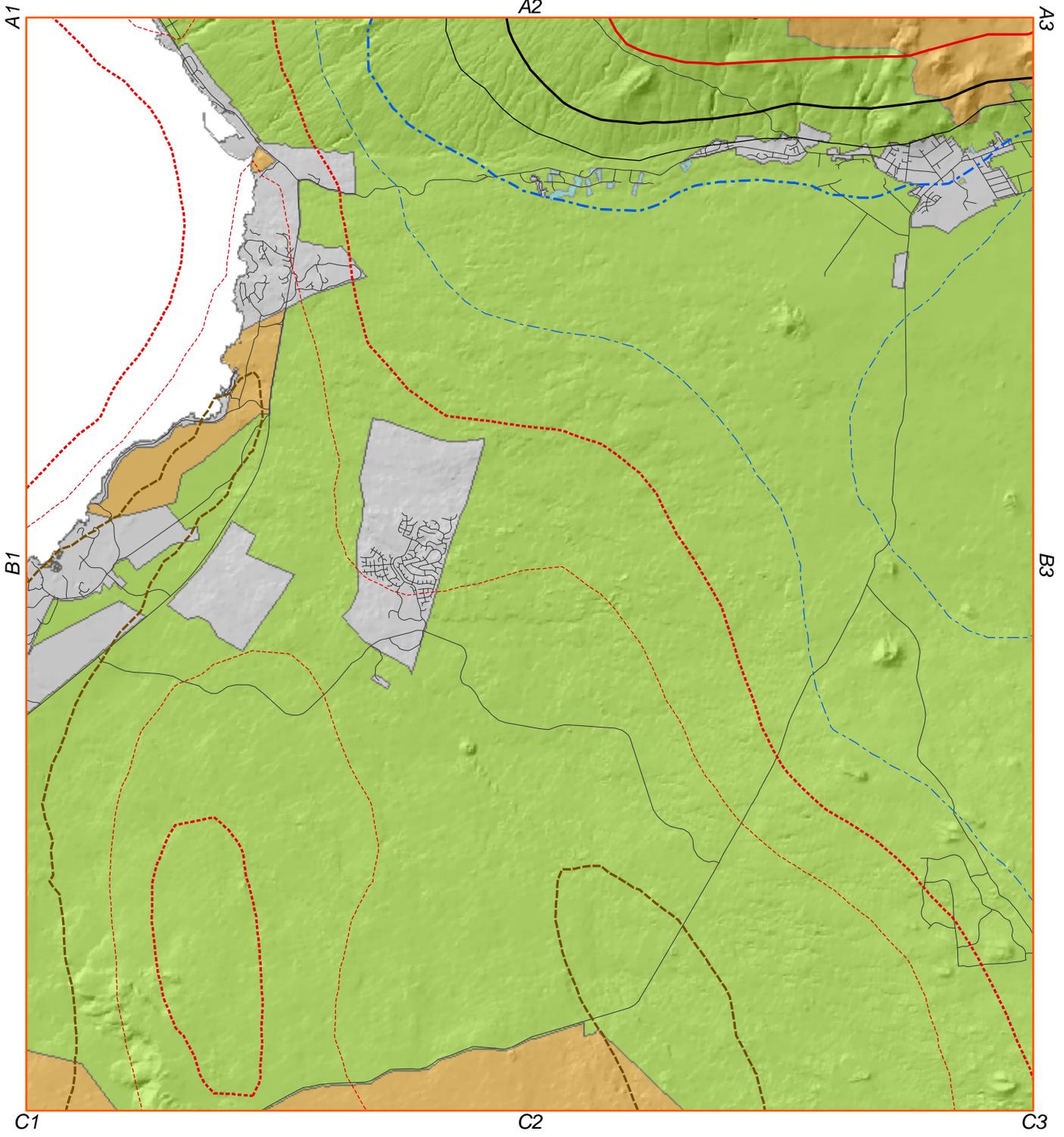
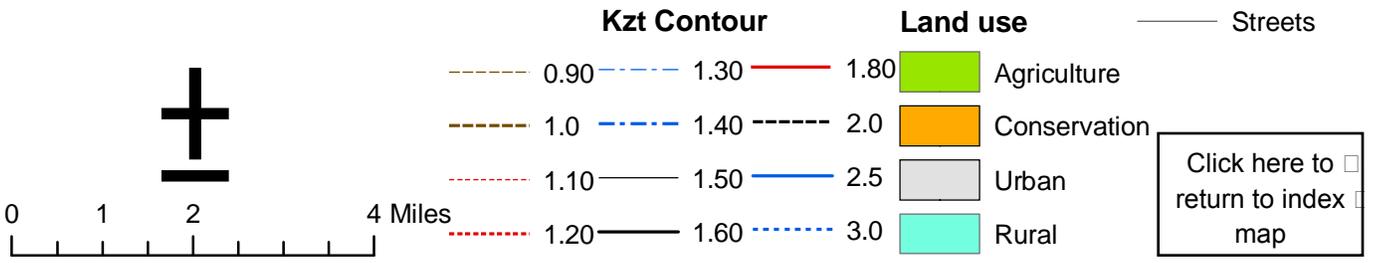
Wind Topographic Factor (Kzt) for the Island of Hawaii (A4)



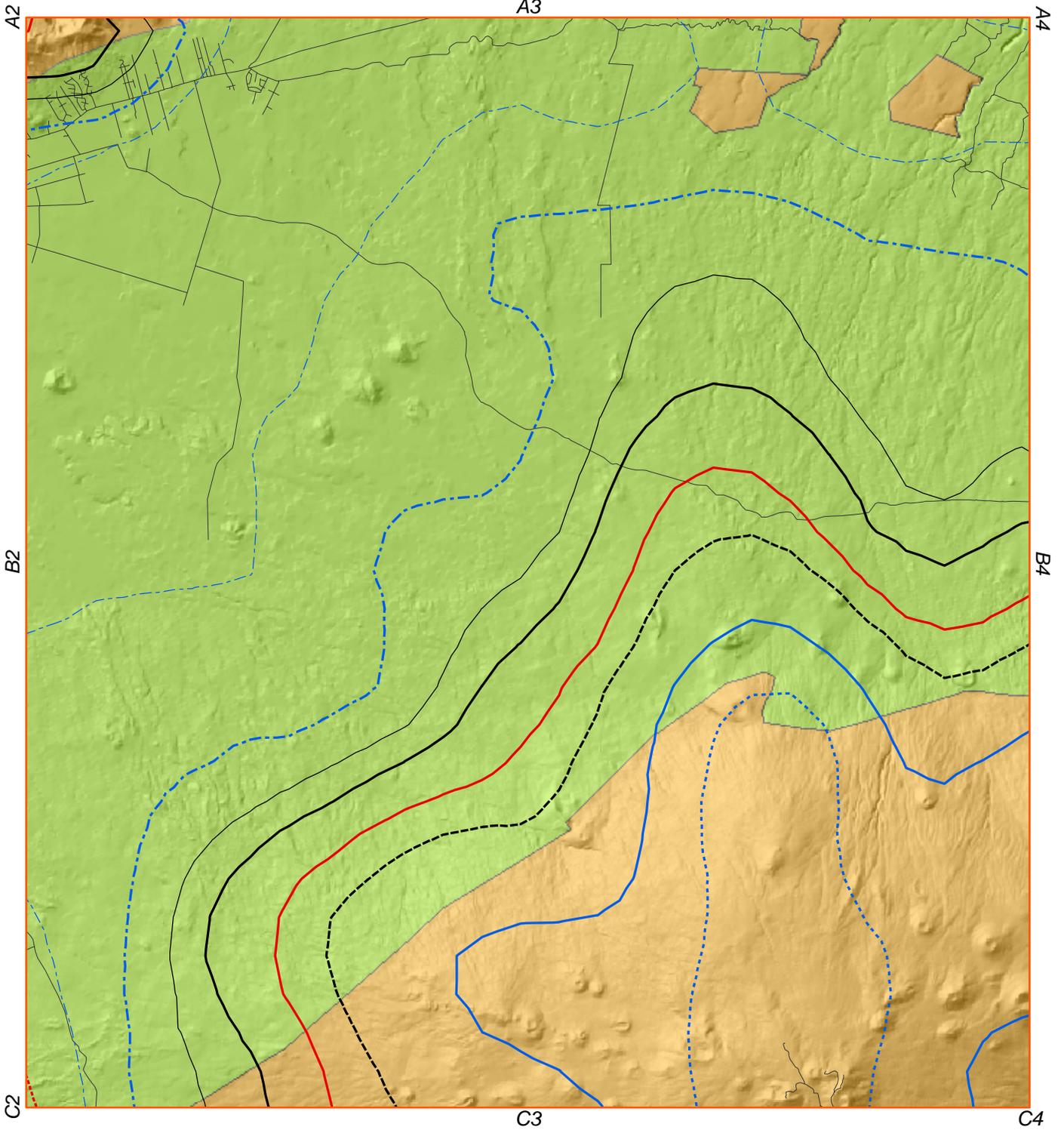
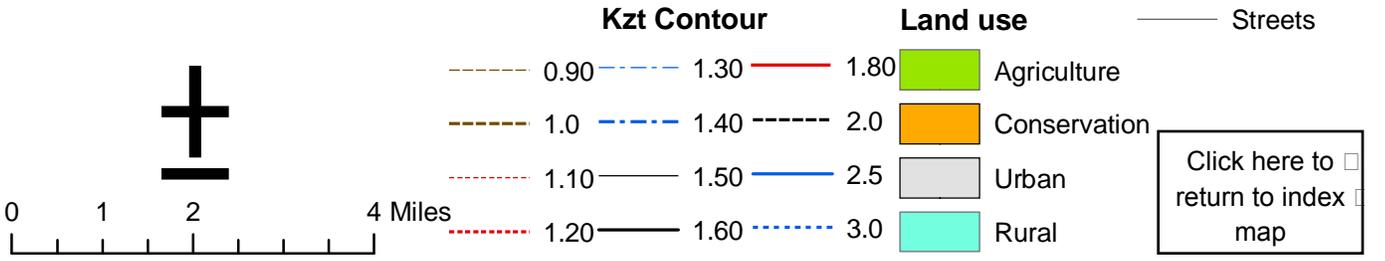
Wind Topographic Factor (Kzt) for the Island of Hawaii (B1)



Wind Topographic Factor (Kzt) for the Island of Hawaii (B2)



Wind Topographic Factor (Kzt) for the Island of Hawaii (B3)

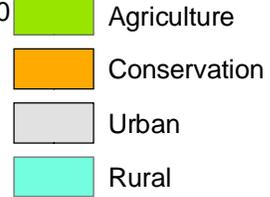
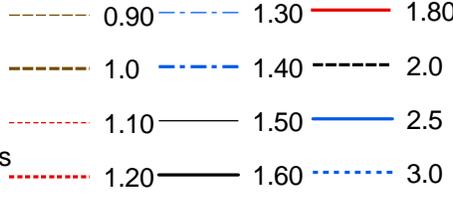


Wind Topographic Factor (Kzt) for the Island of Hawaii (B4)

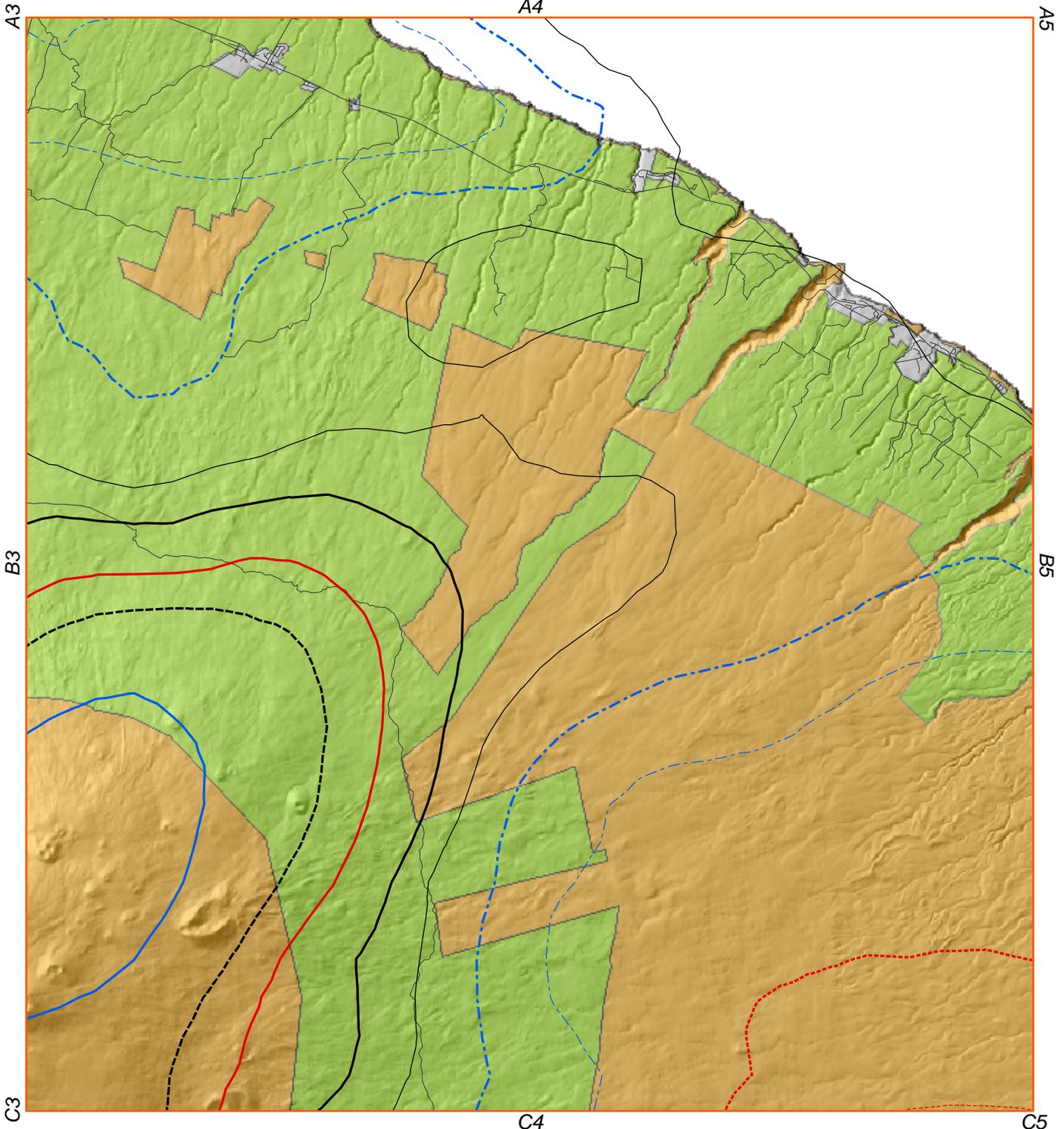
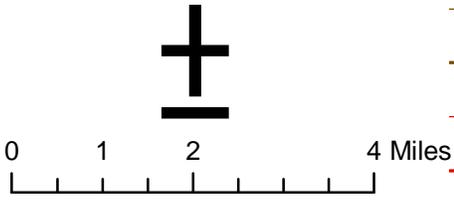
Kzt Contour

Land use

Streets

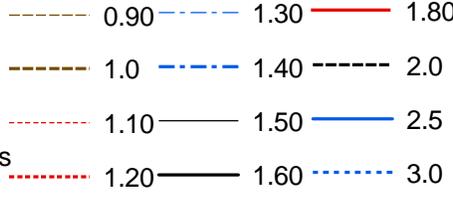


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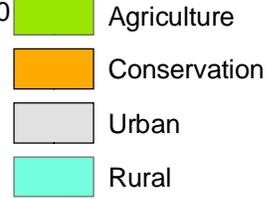


Wind Topographic Factor (Kzt) for the Island of Hawaii (B5)

Kzt Contour

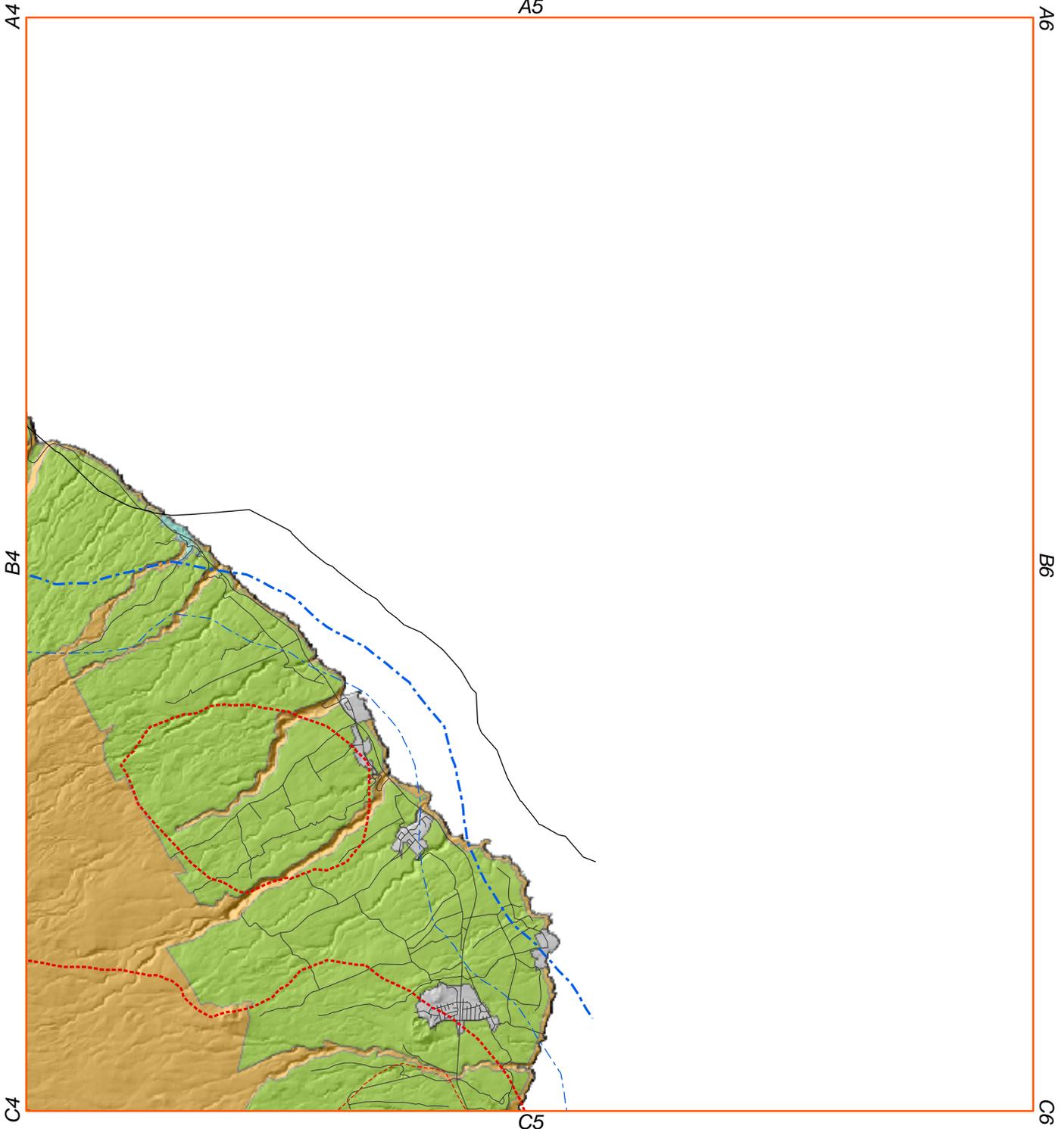
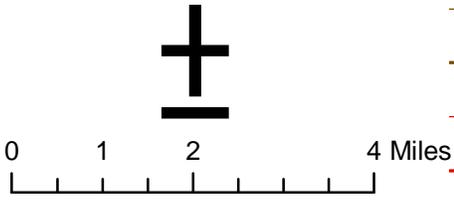


Land use

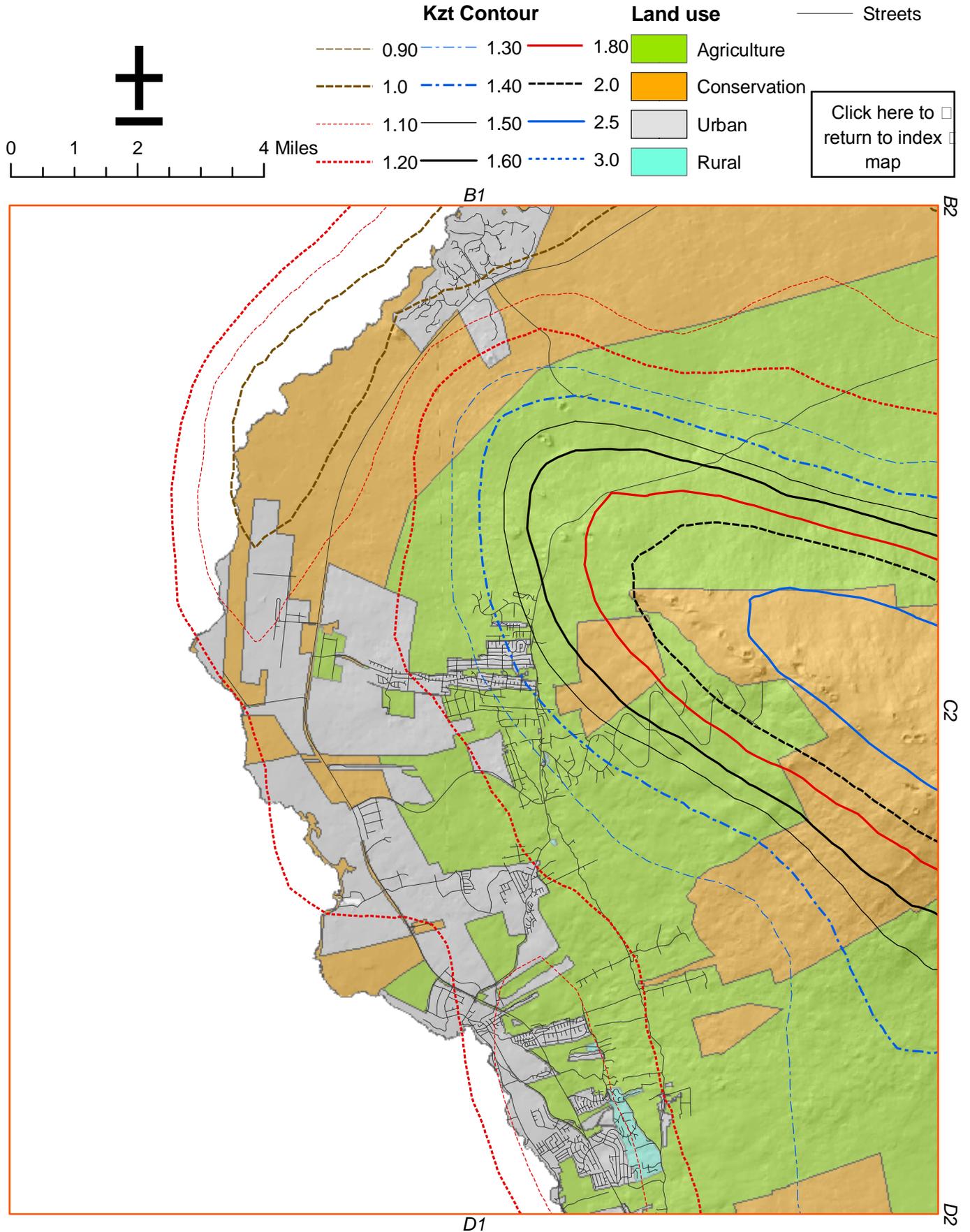


Streets

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Wind Topographic Factor (Kzt) for the Island of Hawaii (C1)

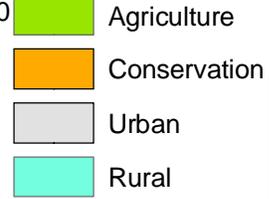
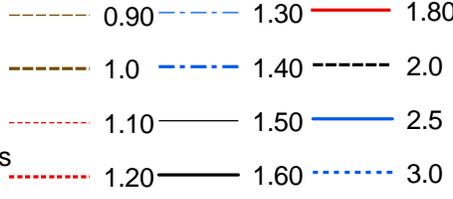


Wind Topographic Factor (Kzt) for the Island of Hawaii (C2)

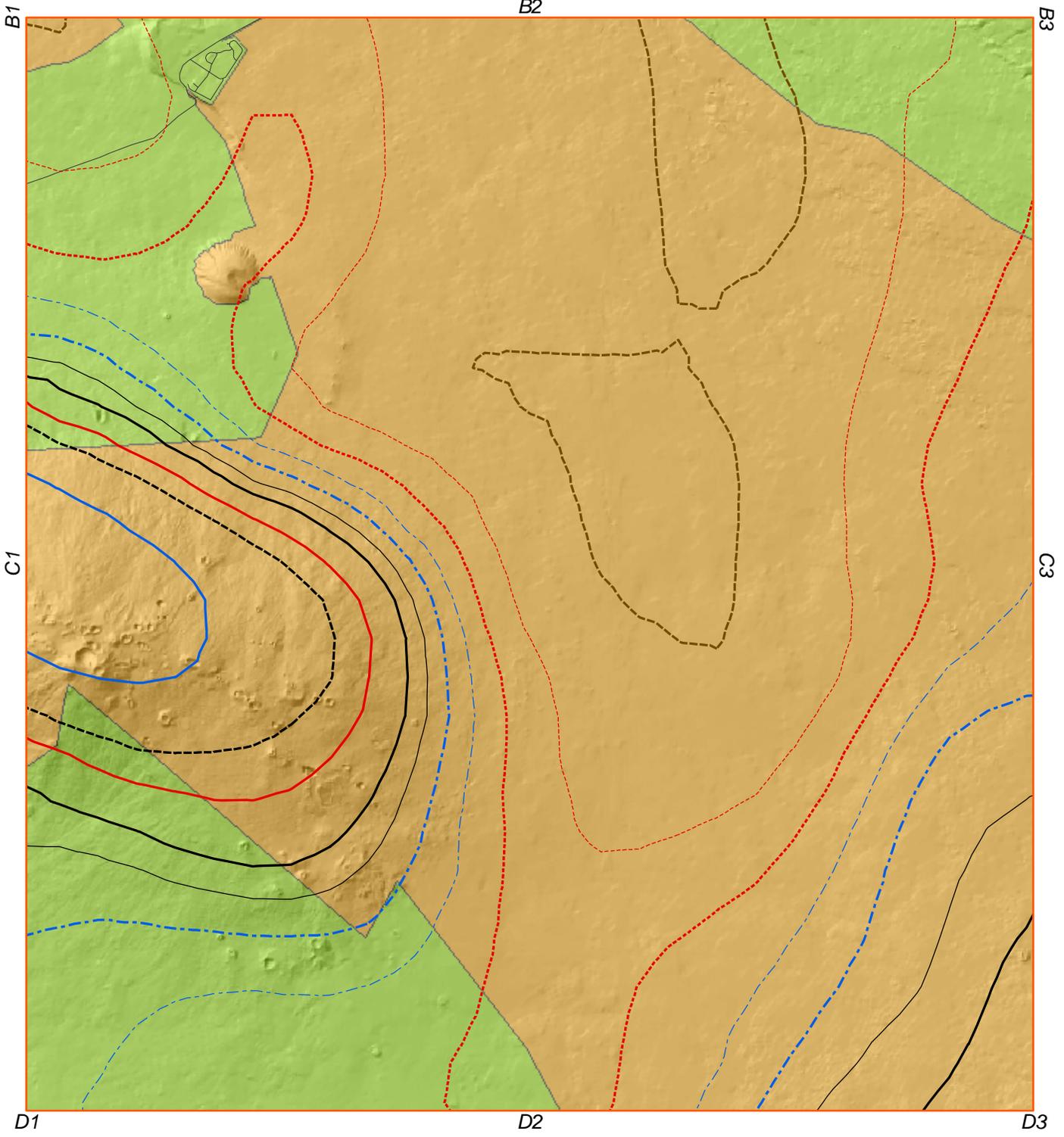
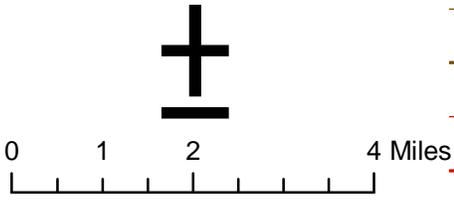
Kzt Contour

Land use

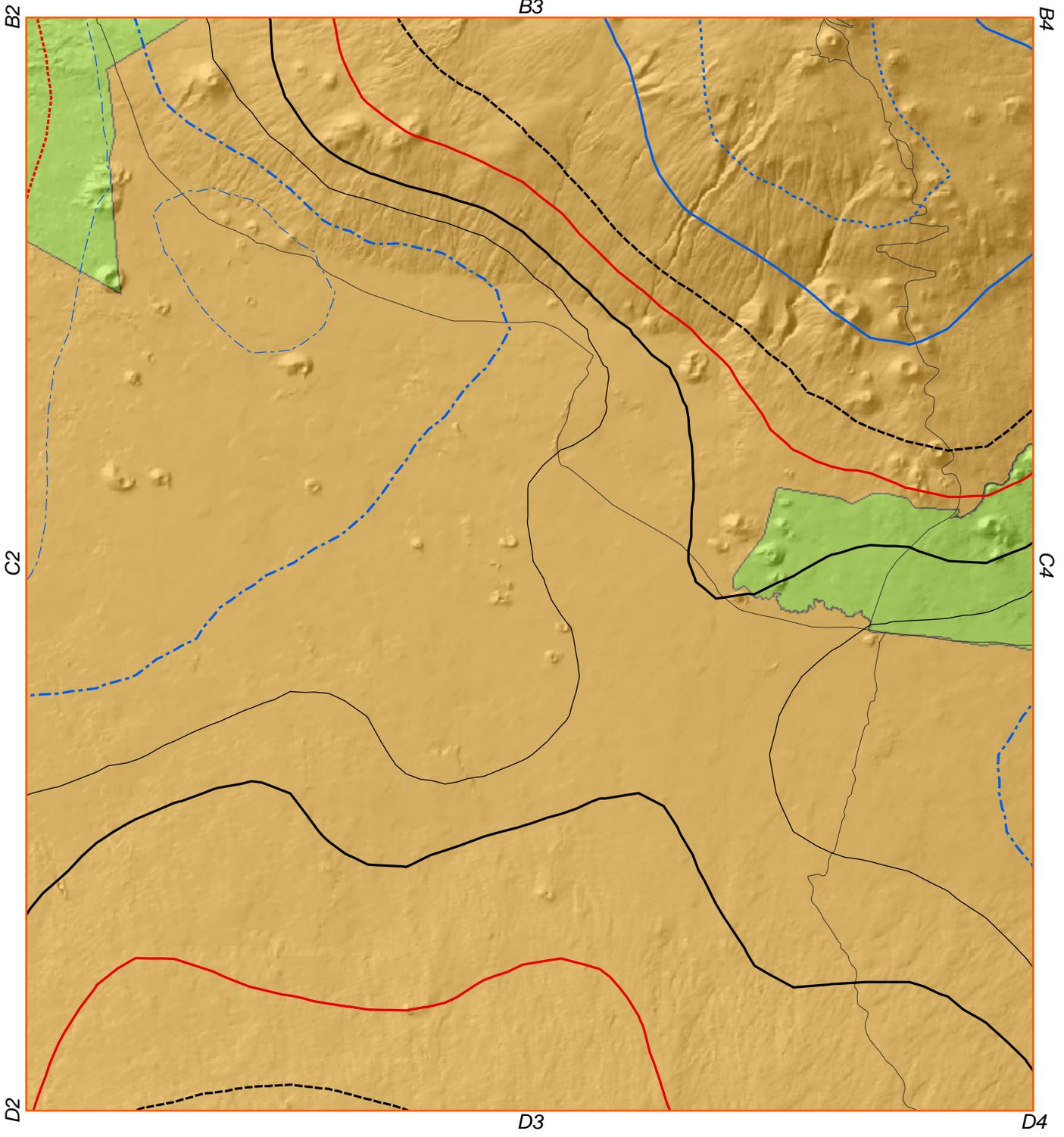
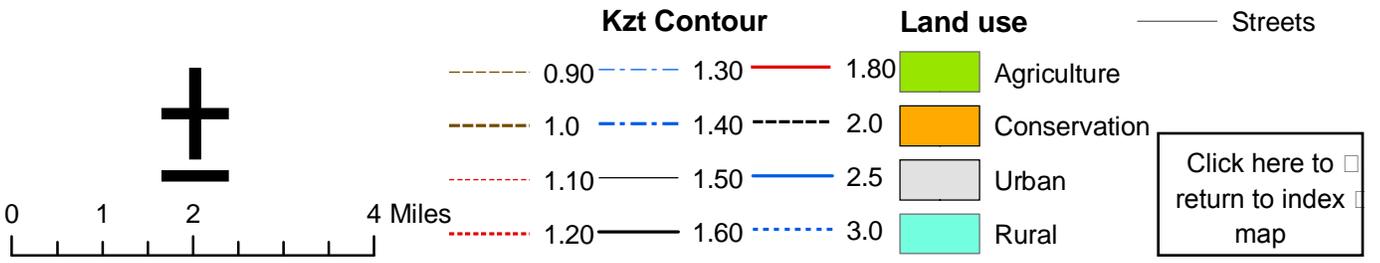
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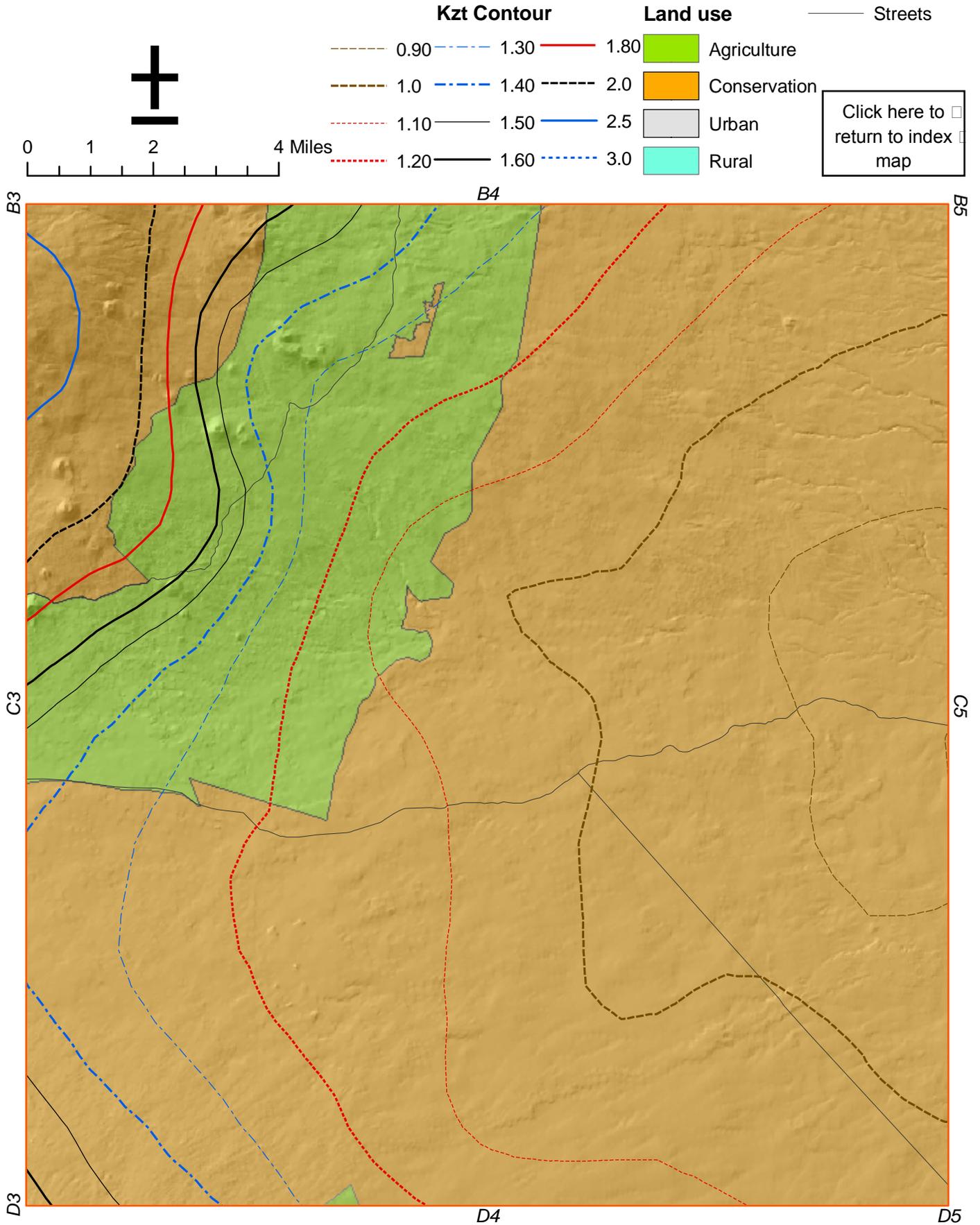
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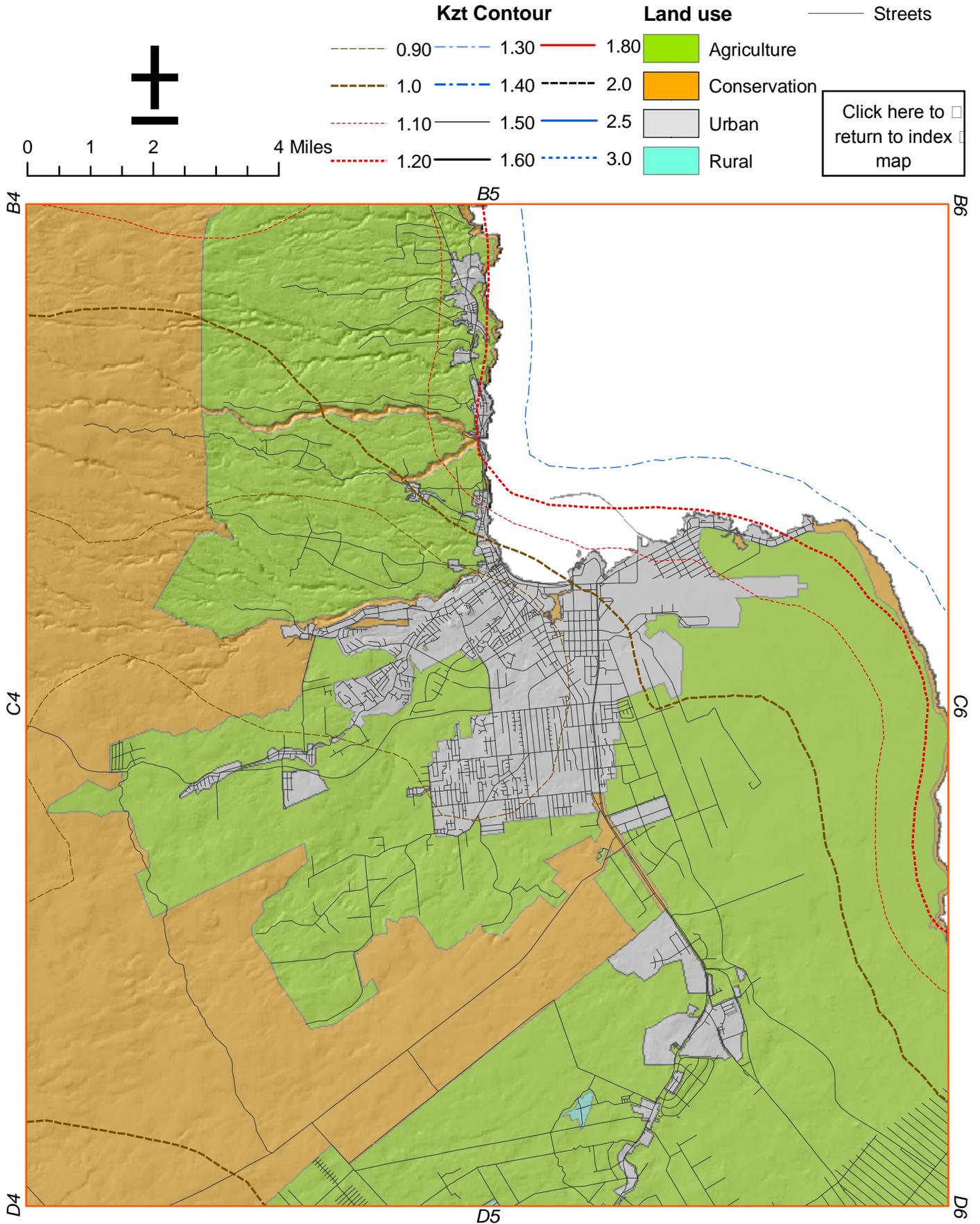
Wind Topographic Factor (Kzt) for the Island of Hawaii (C3)



Wind Topographic Factor (Kzt) for the Island of Hawaii (C4)

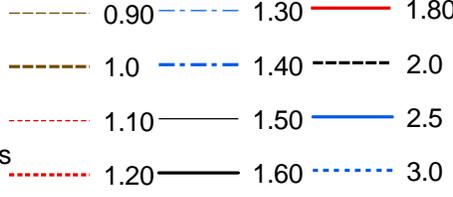


Wind Topographic Factor (Kzt) for the Island of Hawaii (C5)

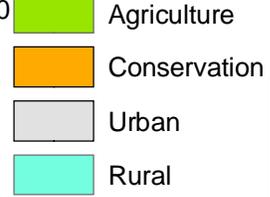


Wind Topographic Factor (Kzt) for the Island of Hawaii (C6)

Kzt Contour

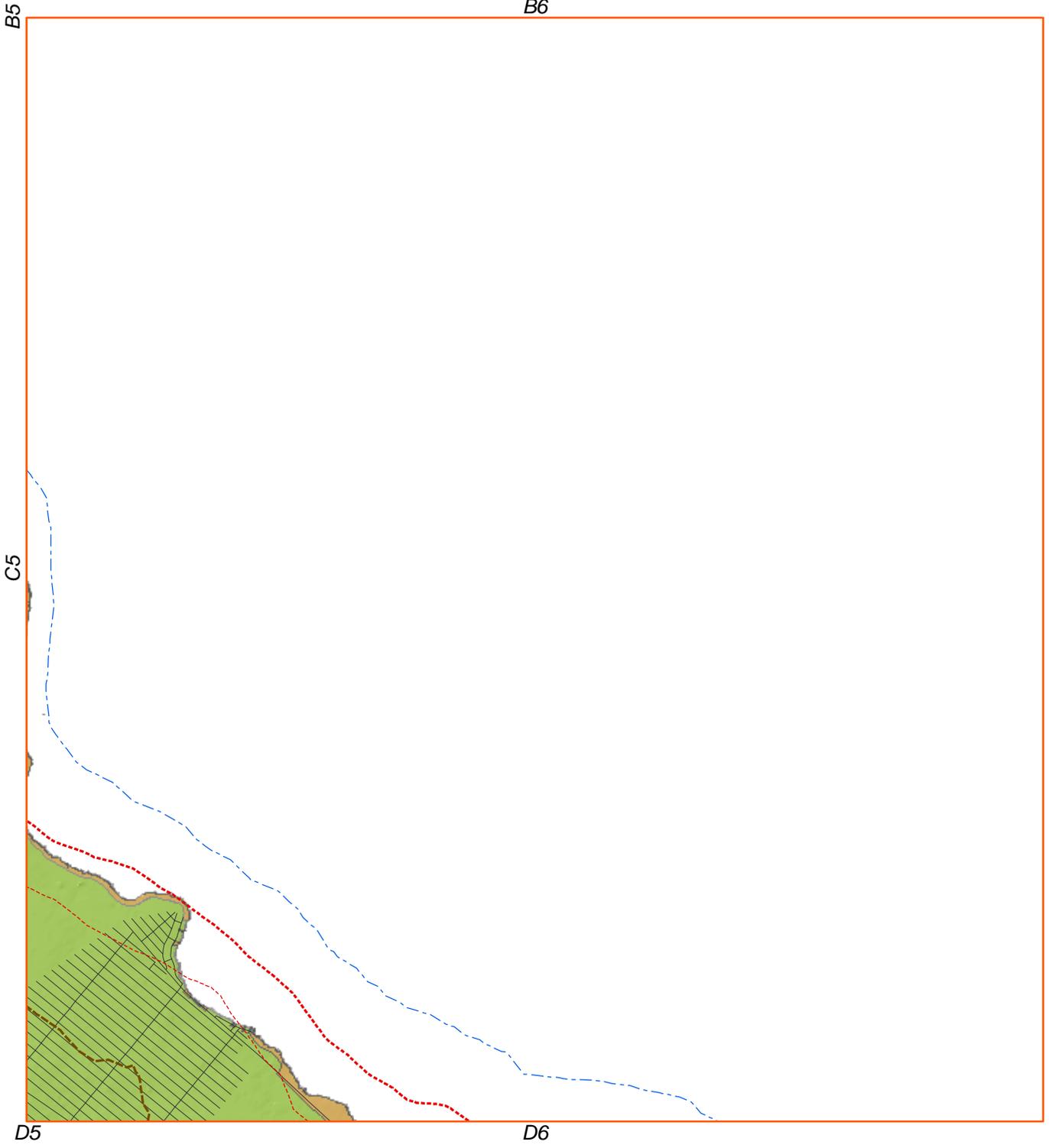
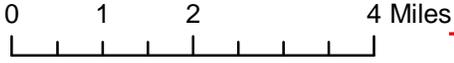


Land use

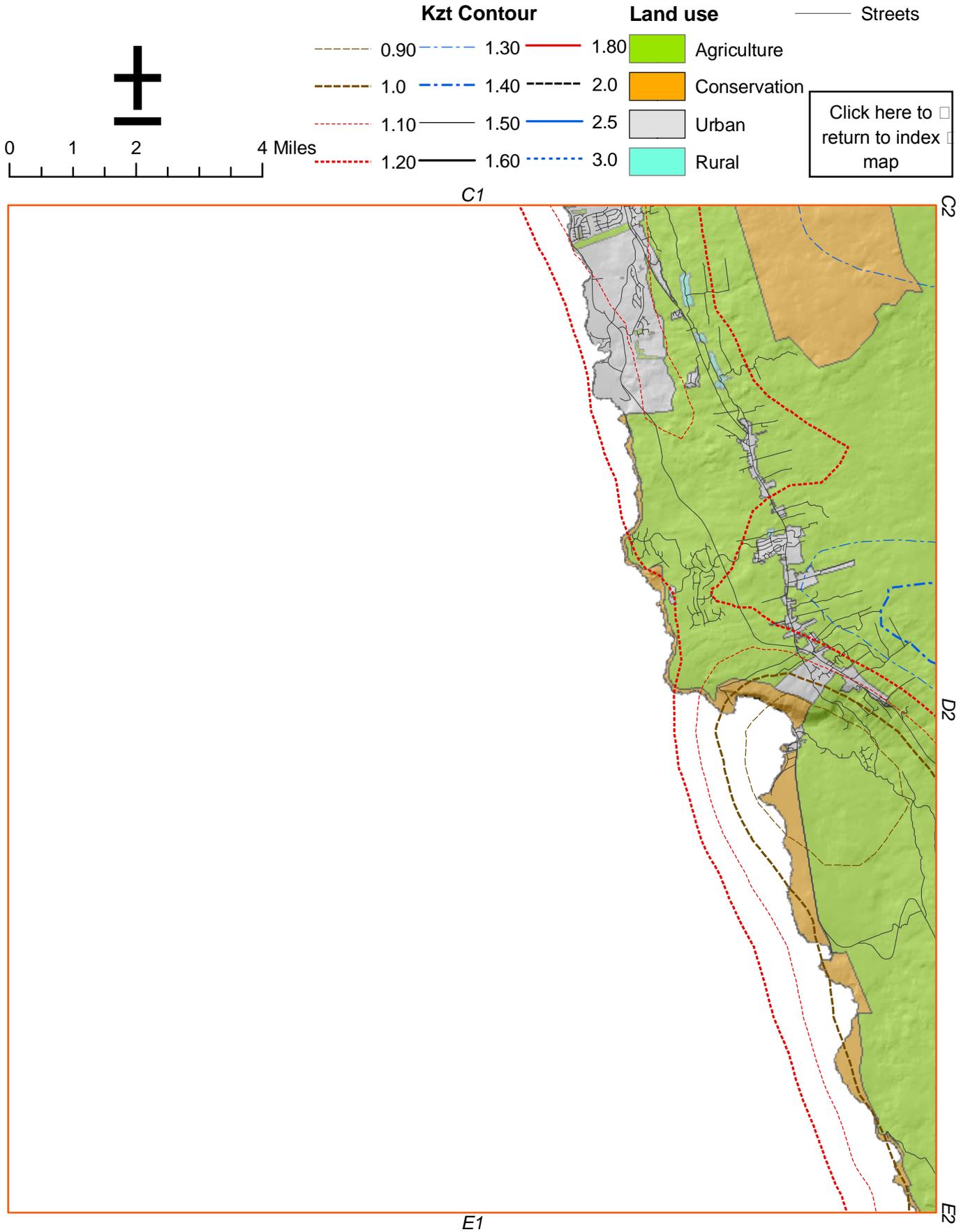


Streets

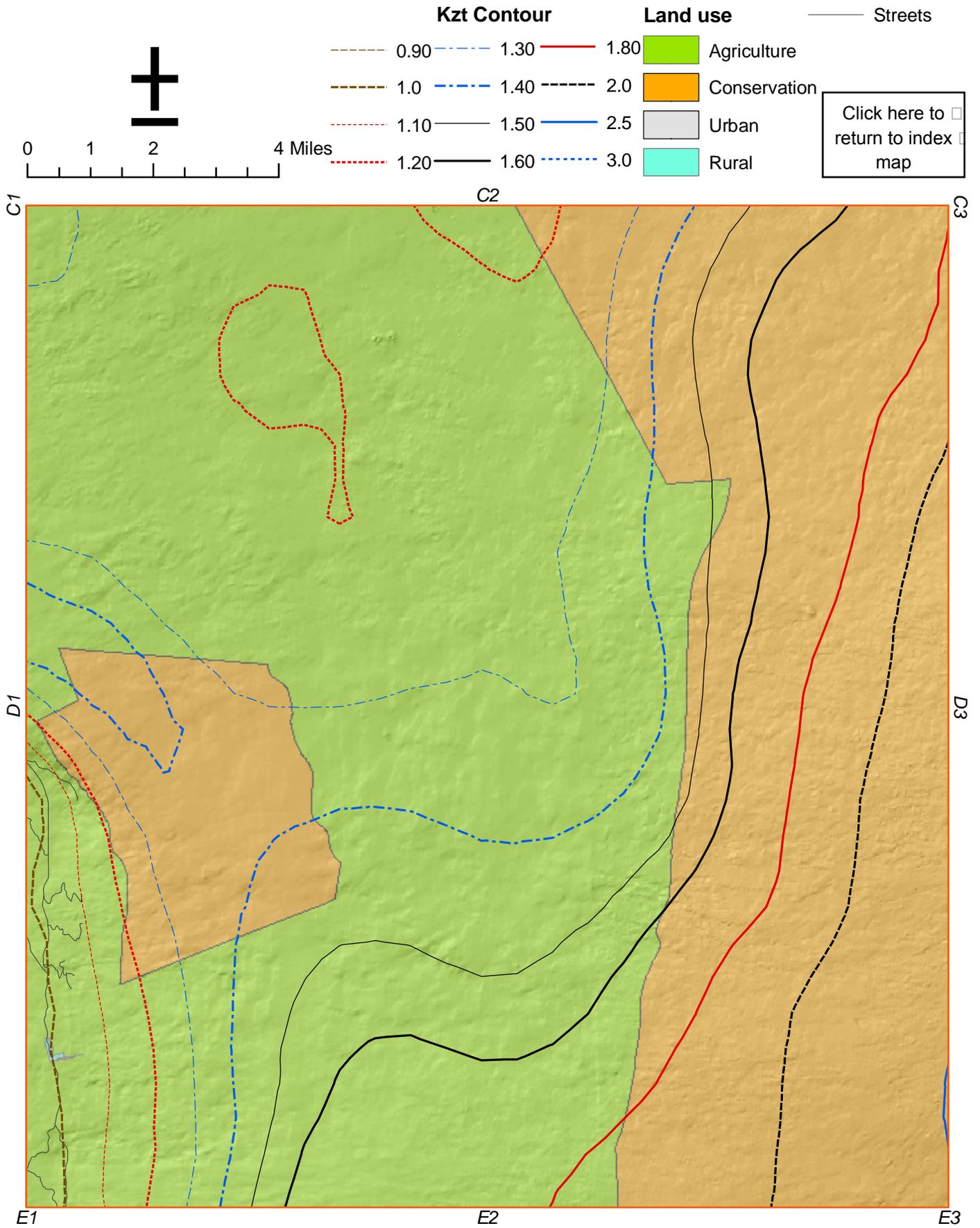
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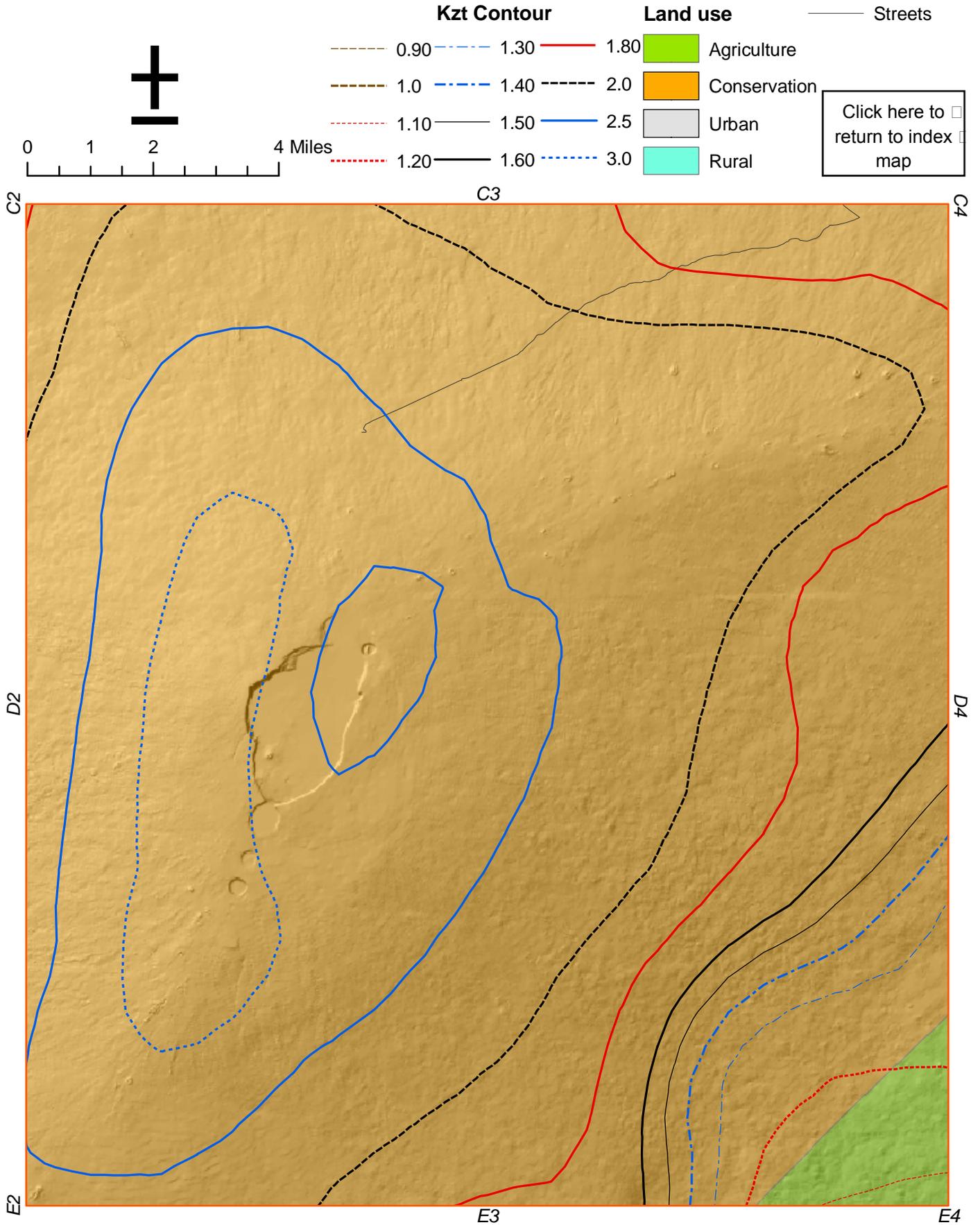
Wind Topographic Factor (Kzt) for the Island of Hawaii (D1)



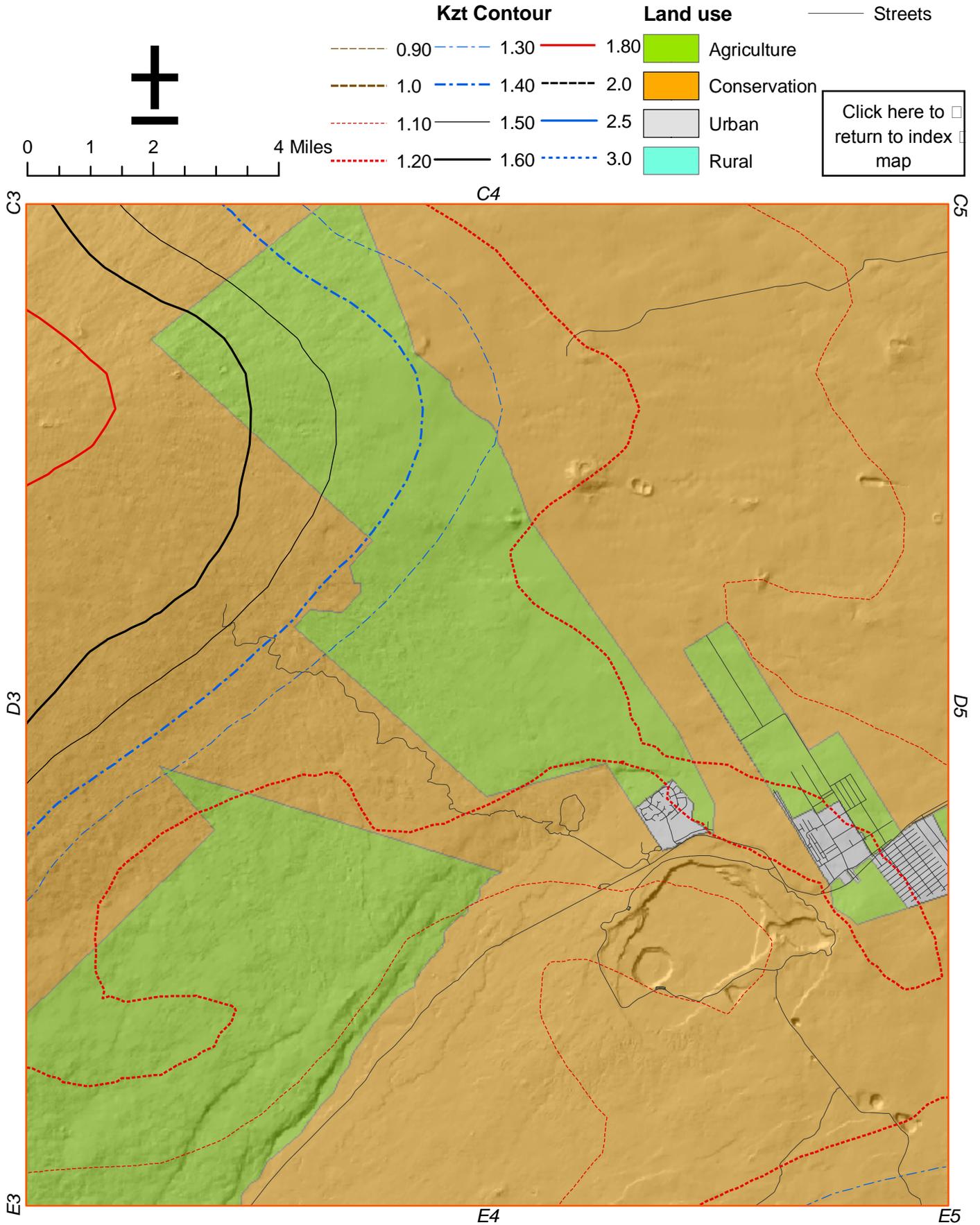
Wind Topographic Factor (Kzt) for the Island of Hawaii (D2)



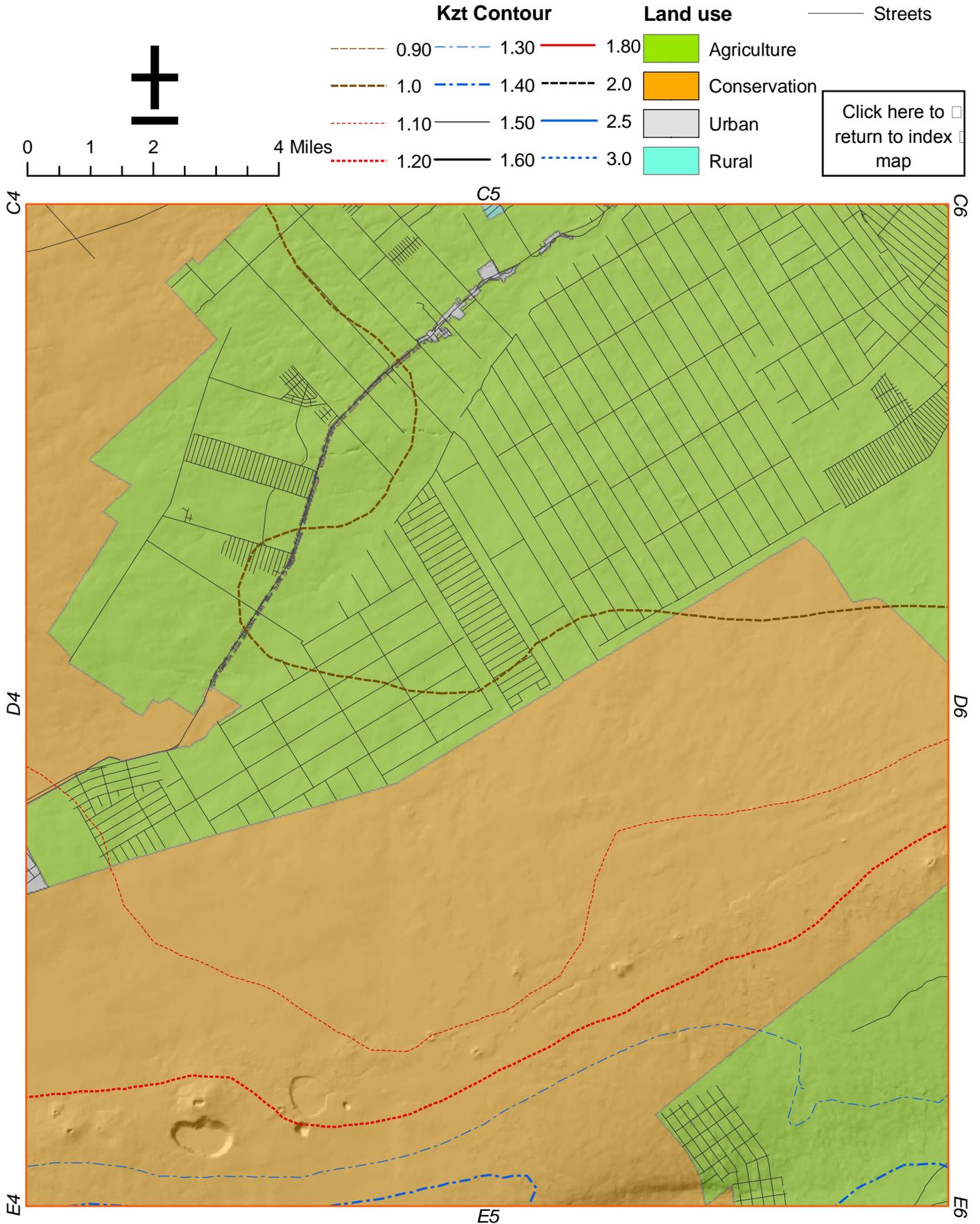
Wind Topographic Factor (Kzt) for the Island of Hawaii (D3)



Wind Topographic Factor (Kzt) for the Island of Hawaii (D4)



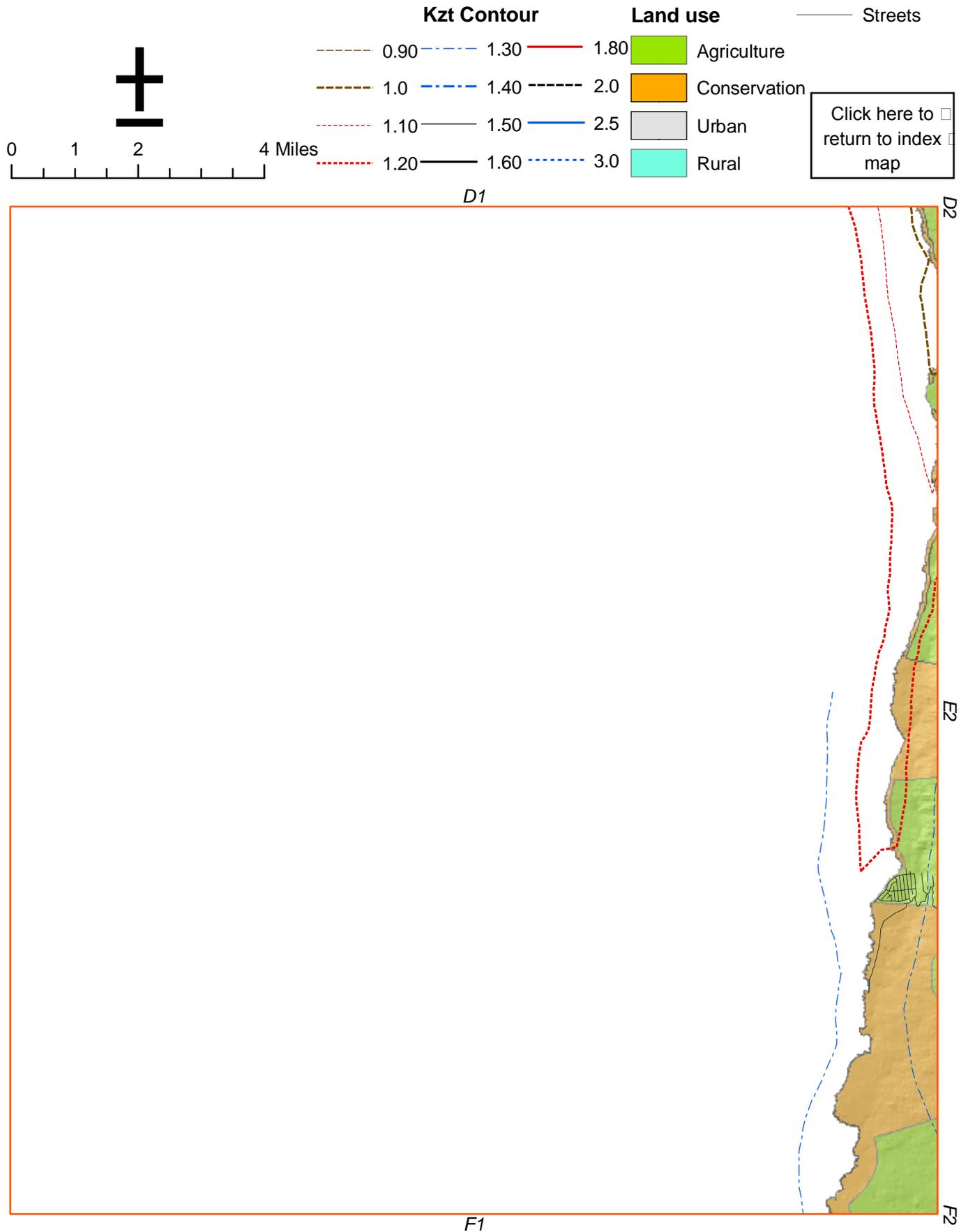
Wind Topographic Factor (Kzt) for the Island of Hawaii (D5)



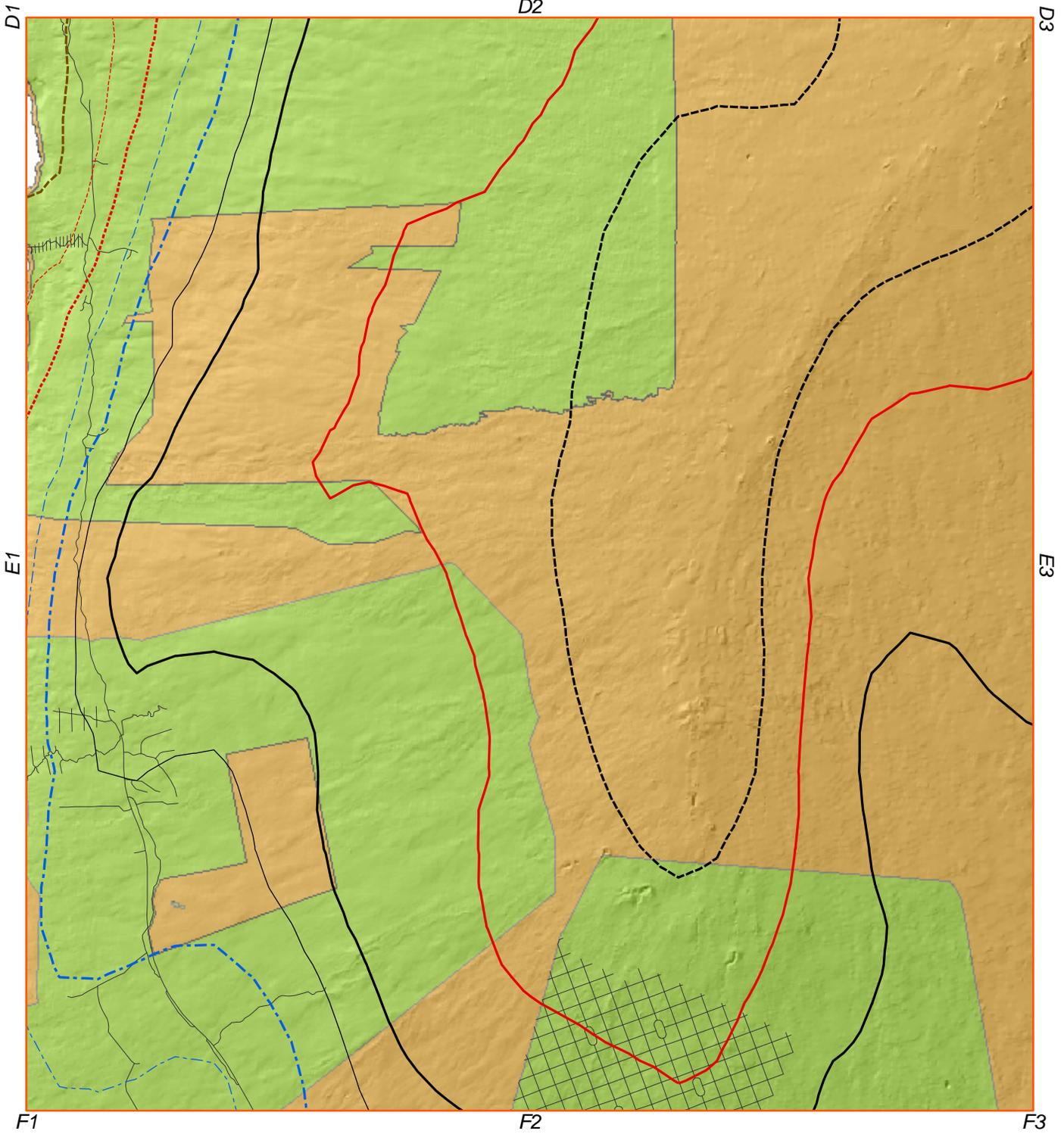
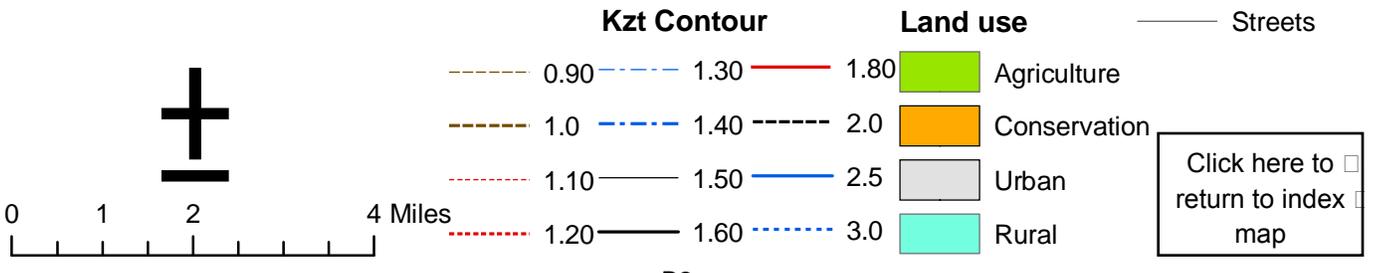
Wind Topographic Factor (Kzt) for the Island of Hawaii (D6)



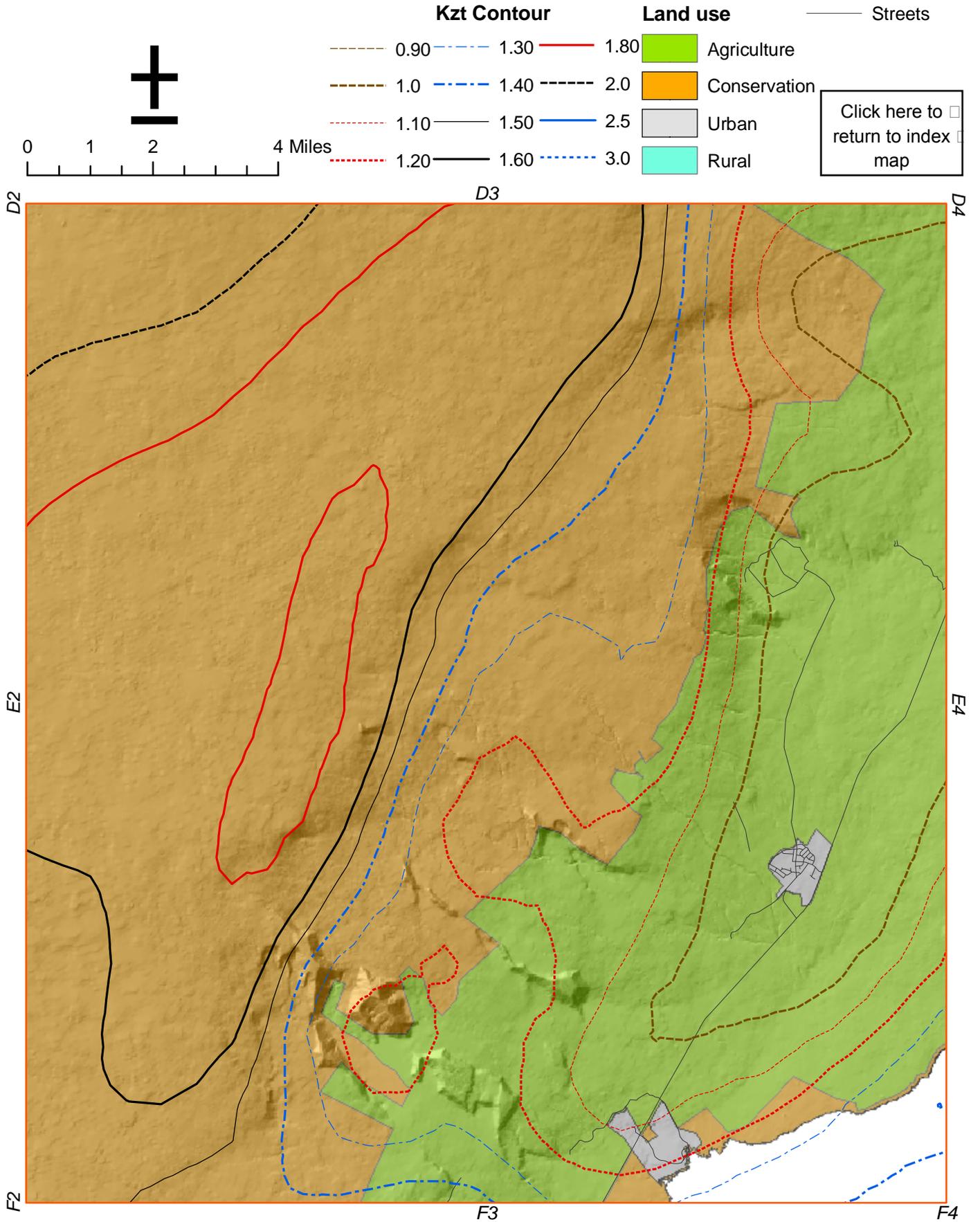
Wind Topographic Factor (Kzt) for the Island of Hawaii (E1)



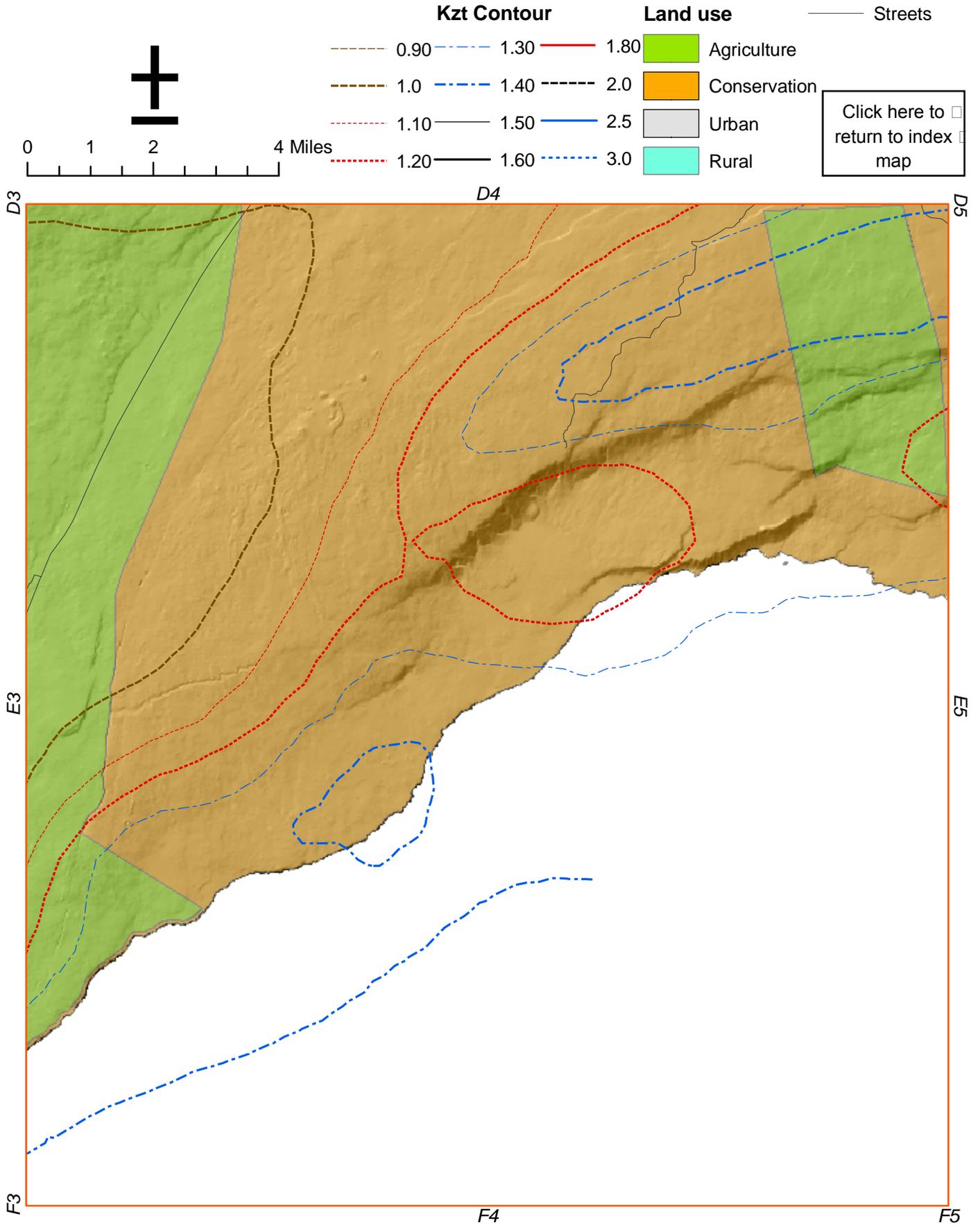
Wind Topographic Factor (Kzt) for the Island of Hawaii (E2)



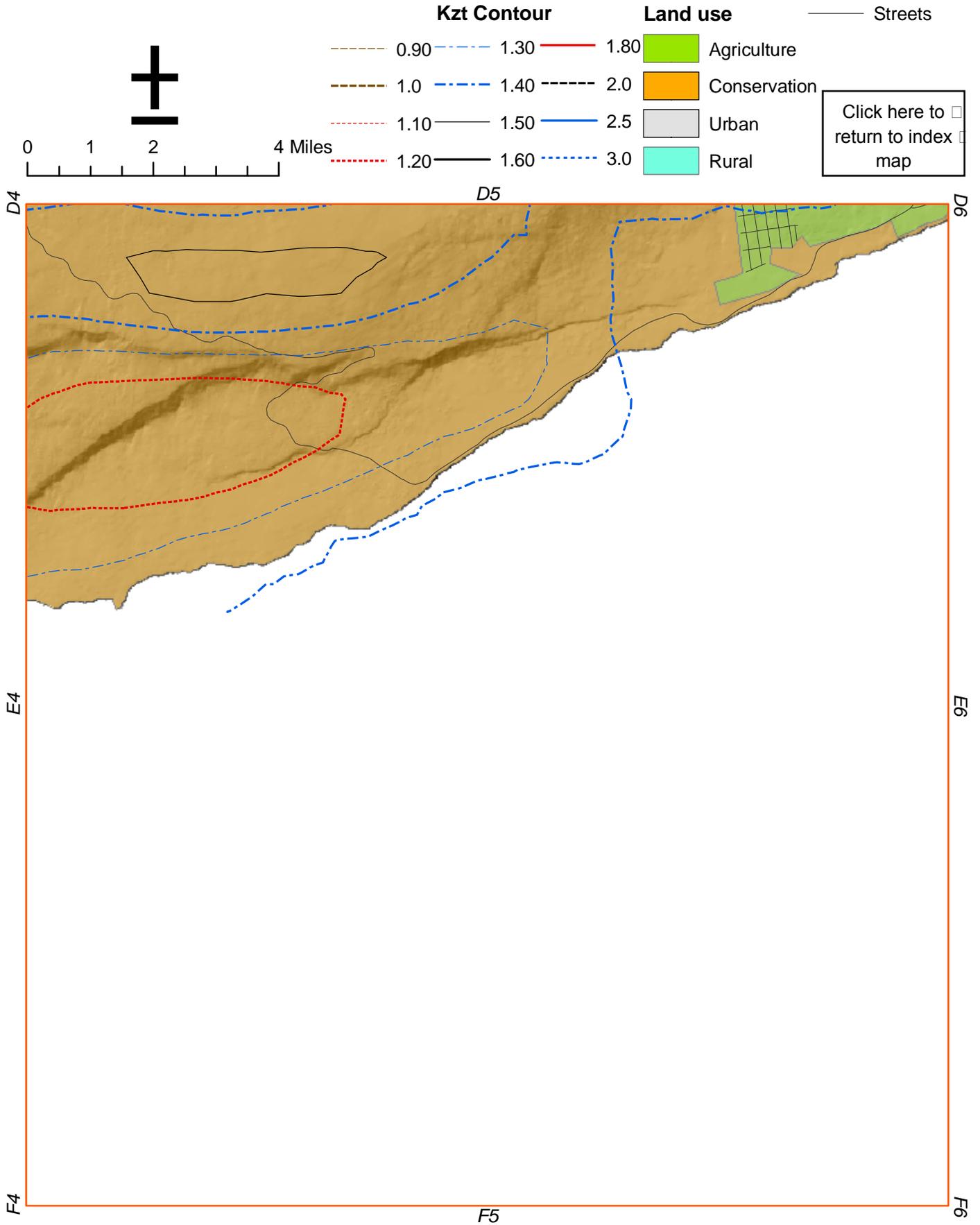
Wind Topographic Factor (Kzt) for the Island of Hawaii (E3)



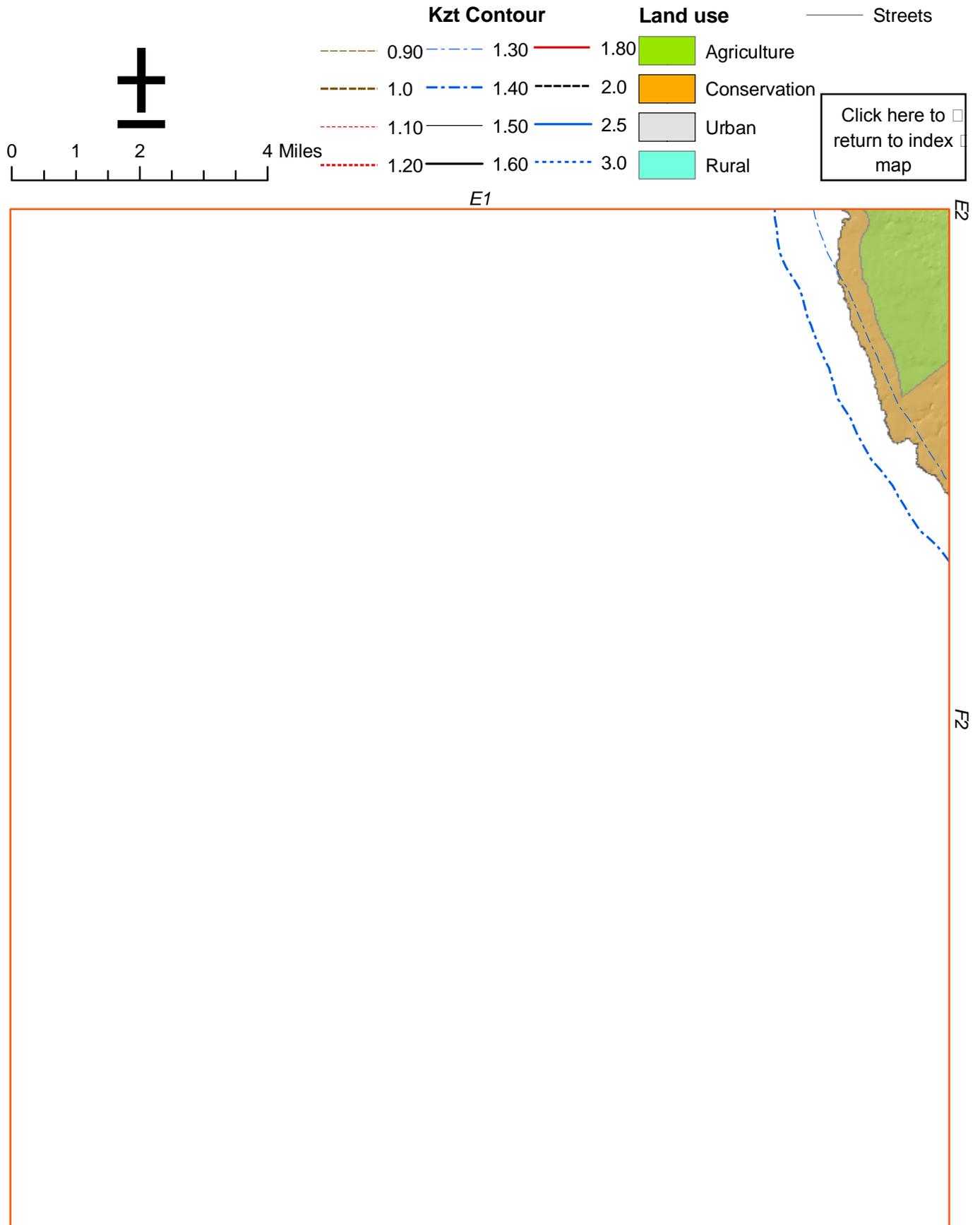
Wind Topographic Factor (Kzt) for the Island of Hawaii (E4)



Wind Topographic Factor (Kzt) for the Island of Hawaii (E5)

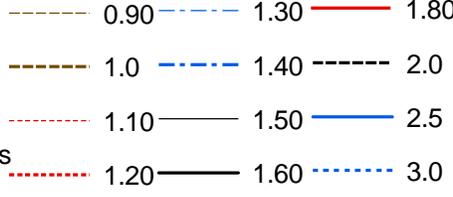


Wind Topographic Factor (Kzt) for the Island of Hawaii (F1)

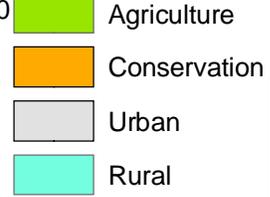


Wind Topographic Factor (Kzt) for the Island of Hawaii (F2)

Kzt Contour

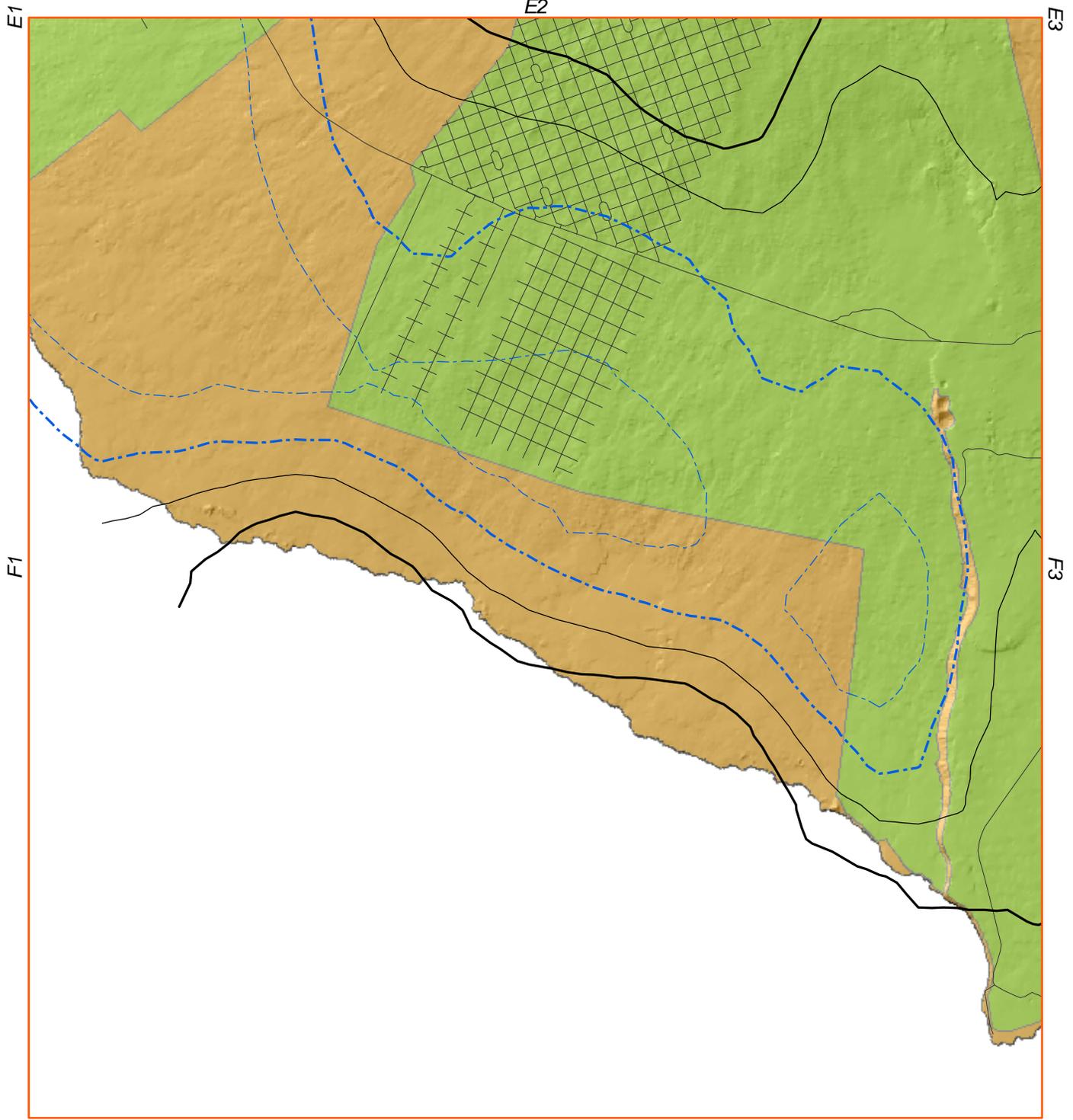
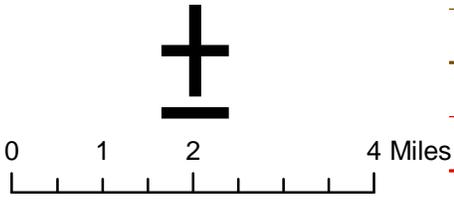


Land use



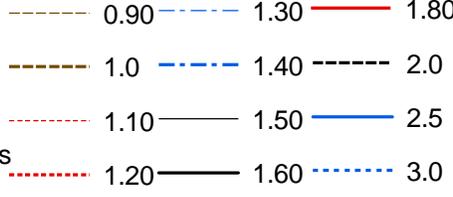
Streets

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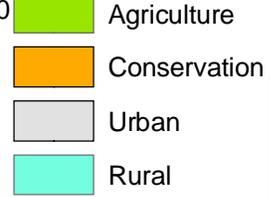


Wind Topographic Factor (Kzt) for the Island of Hawaii (F3)

Kzt Contour

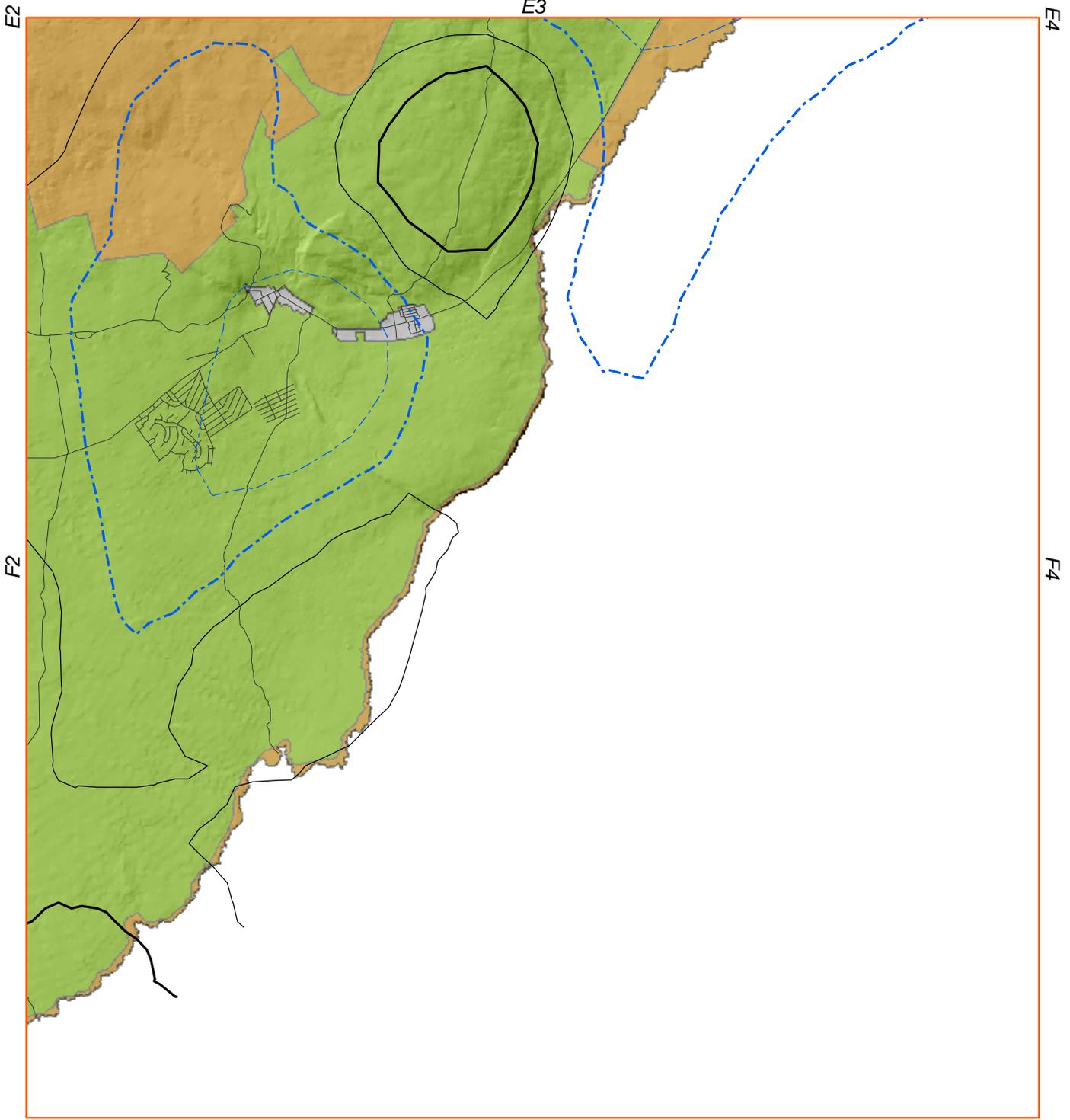
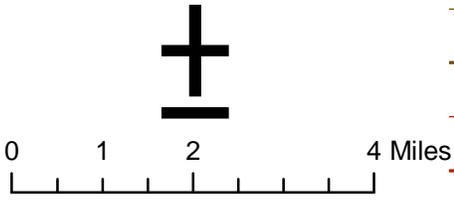


Land use



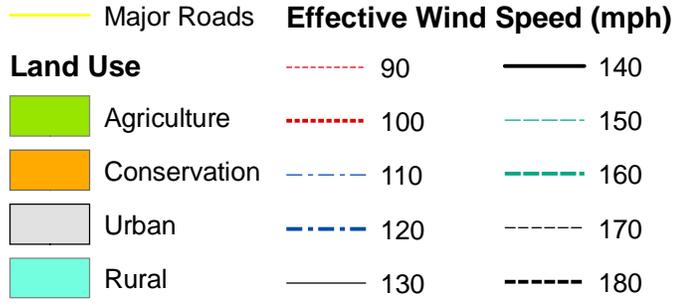
Streets

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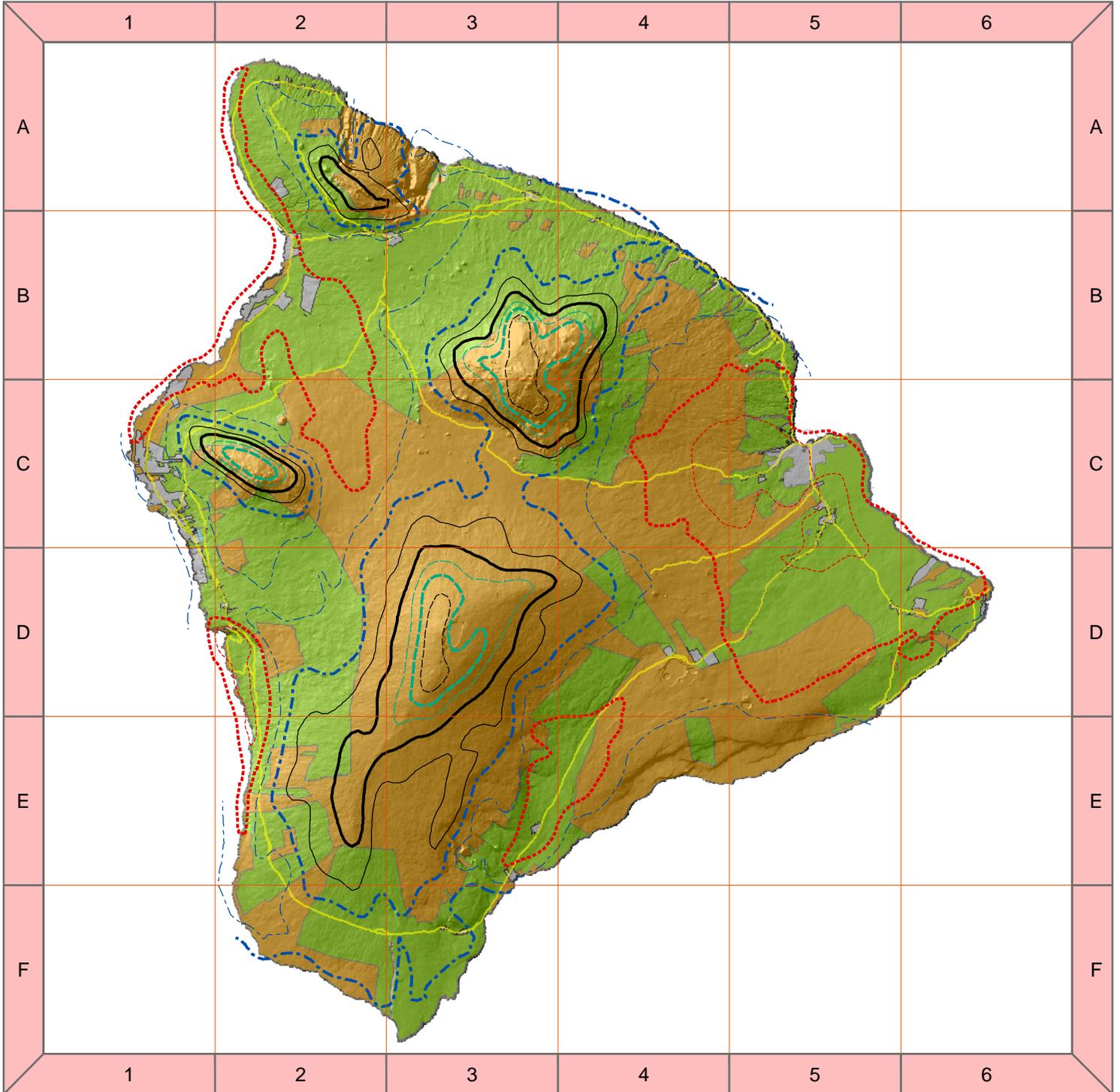
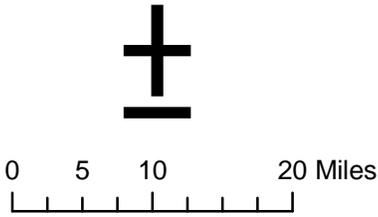


Effective Wind Speed Contour for the Island of Hawaii

(for components and cladding with mean roof height less than or equal to 100ft)

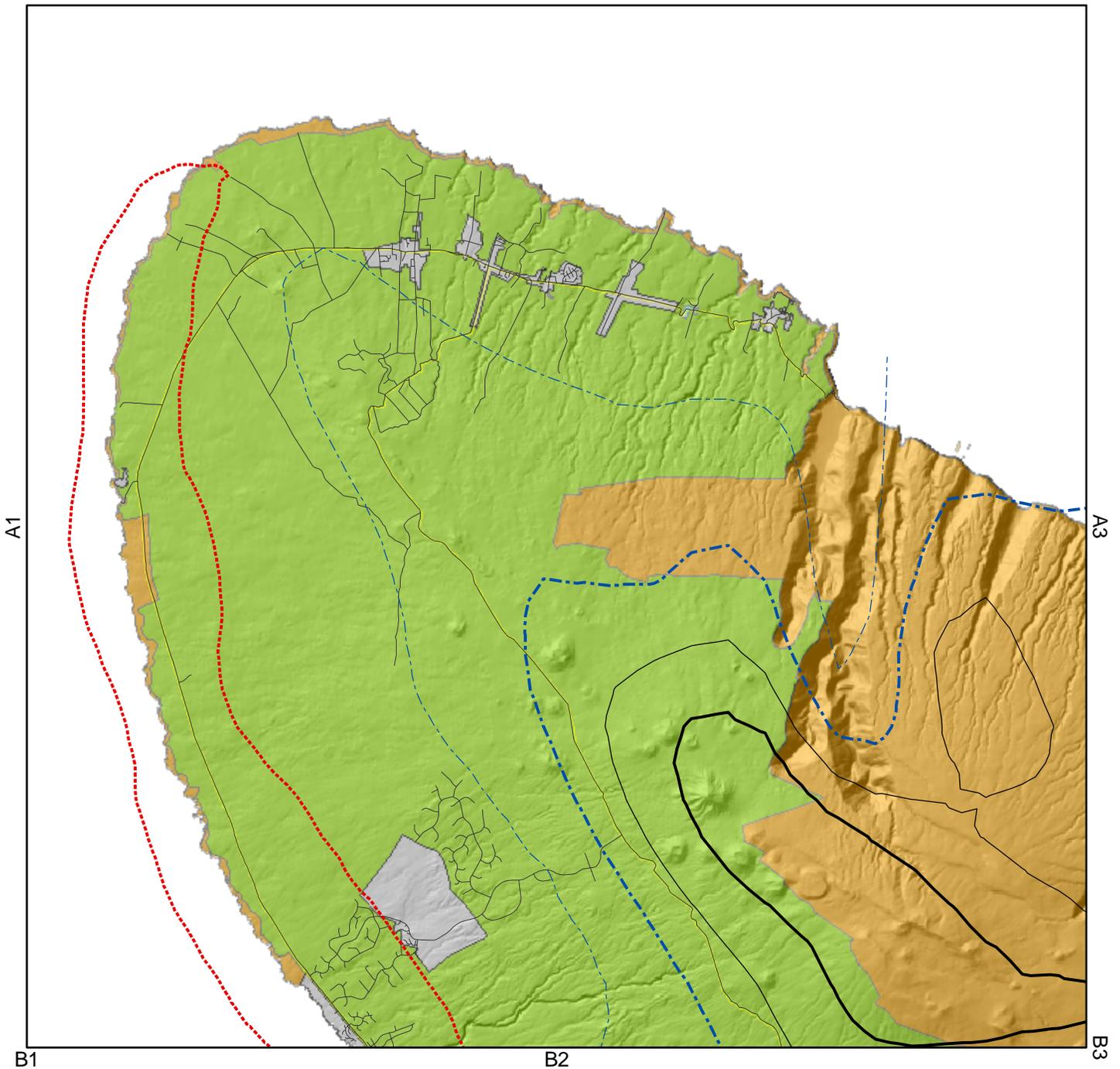
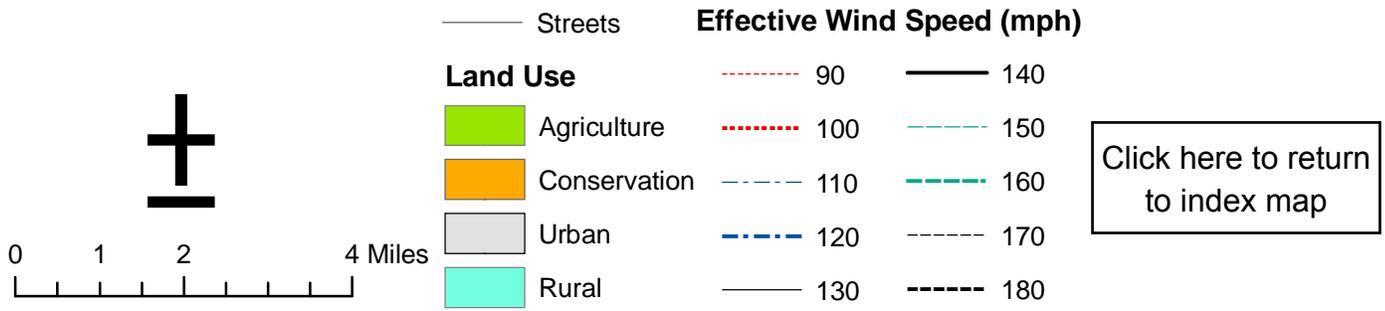


Click your area of interest to view enlarged map



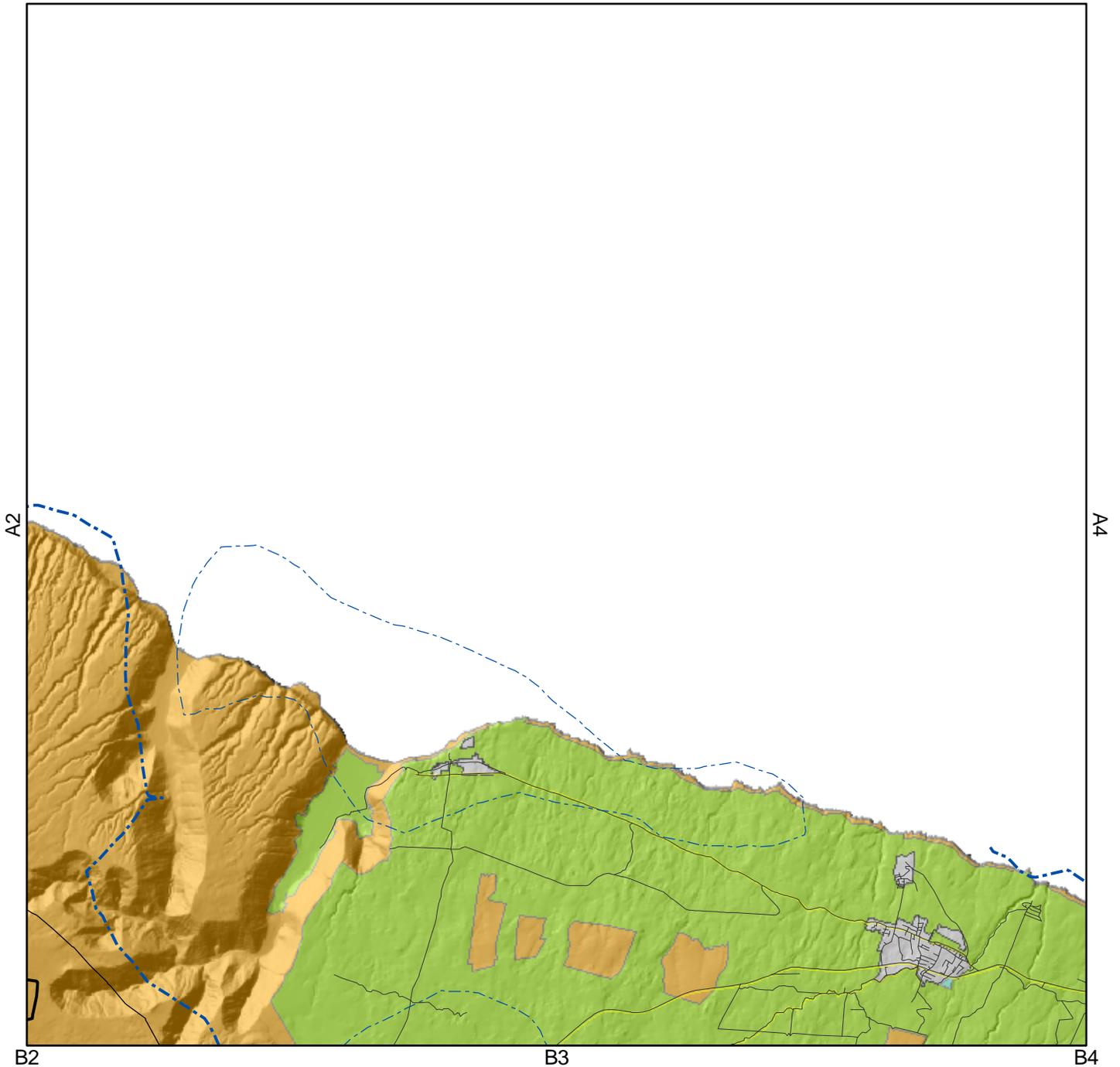
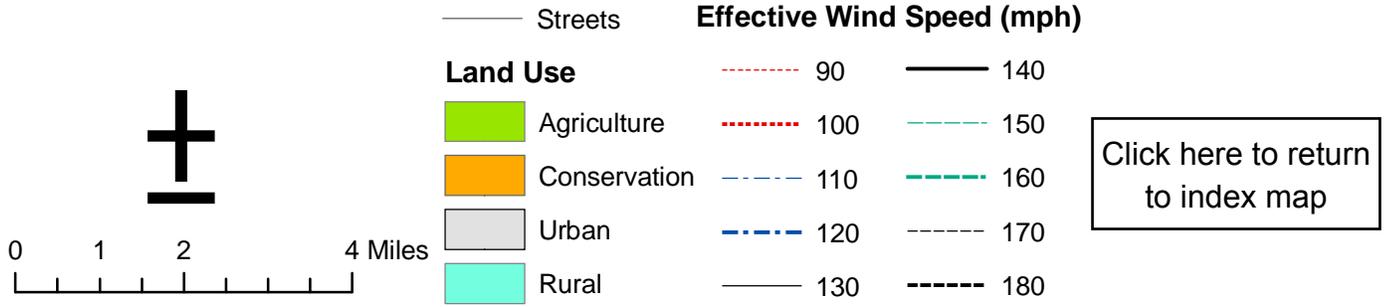
Effective Wind Speed Contour for the Island of Hawaii (A2)

(for components and cladding with mean roof height less than or equal to 100ft)



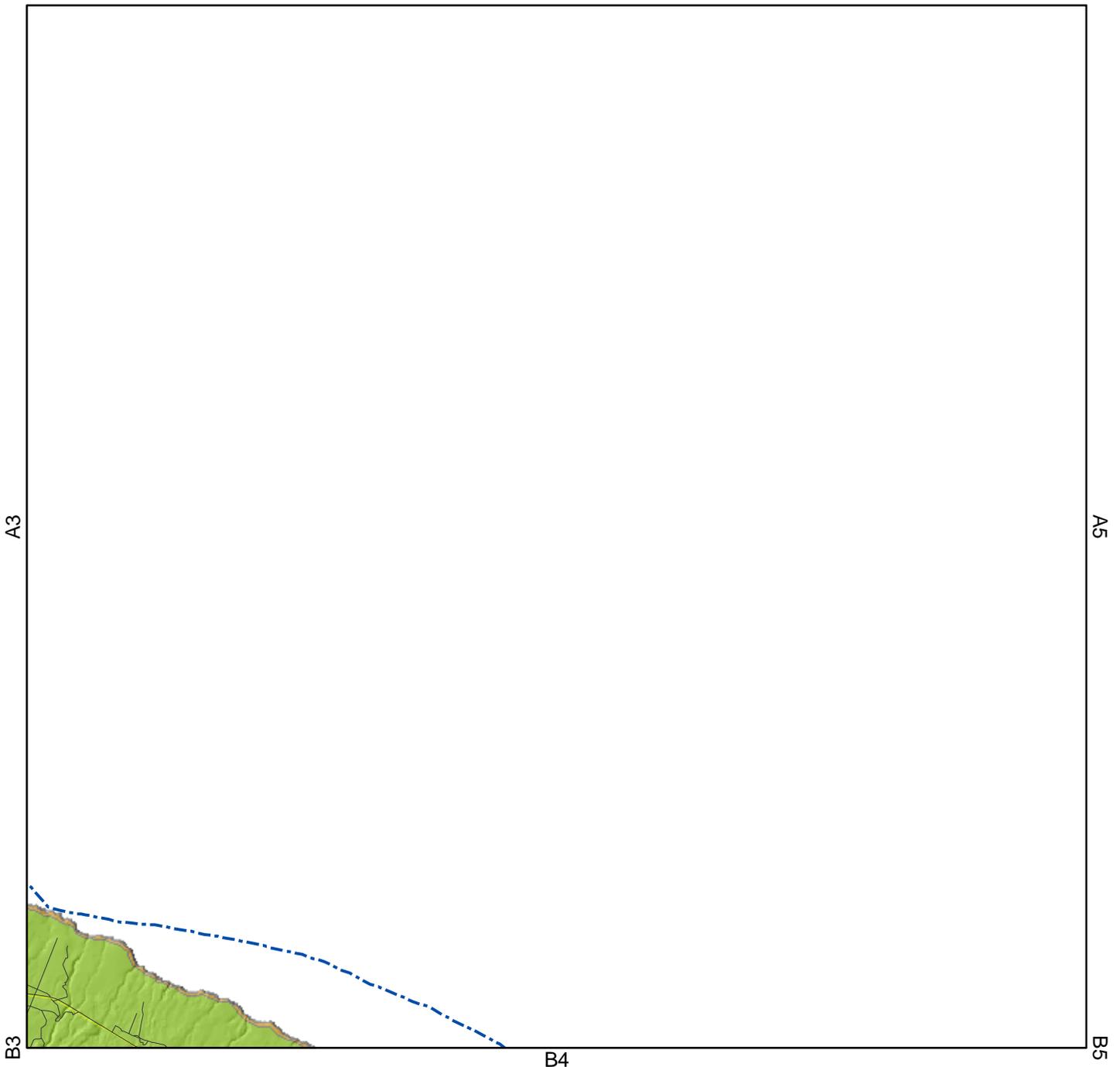
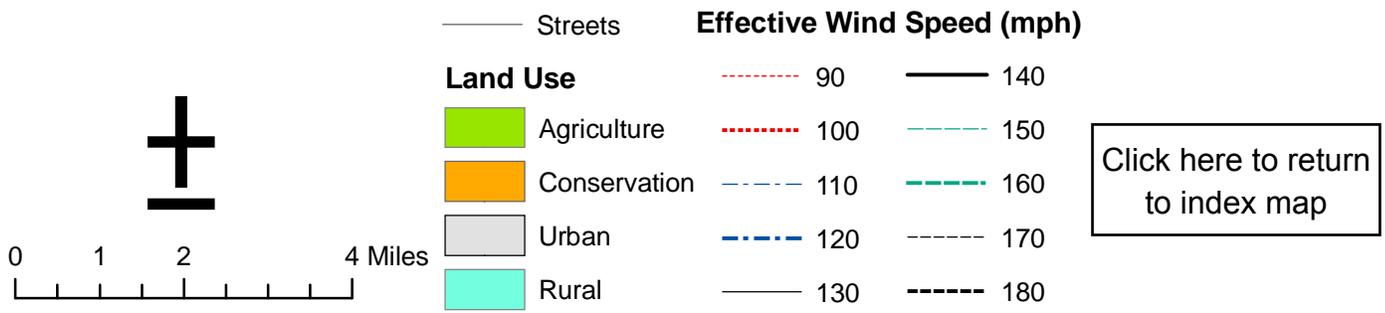
Effective Wind Speed Contour for the Island of Hawaii (A3)

(for components and cladding with mean roof height less than or equal to 100ft)



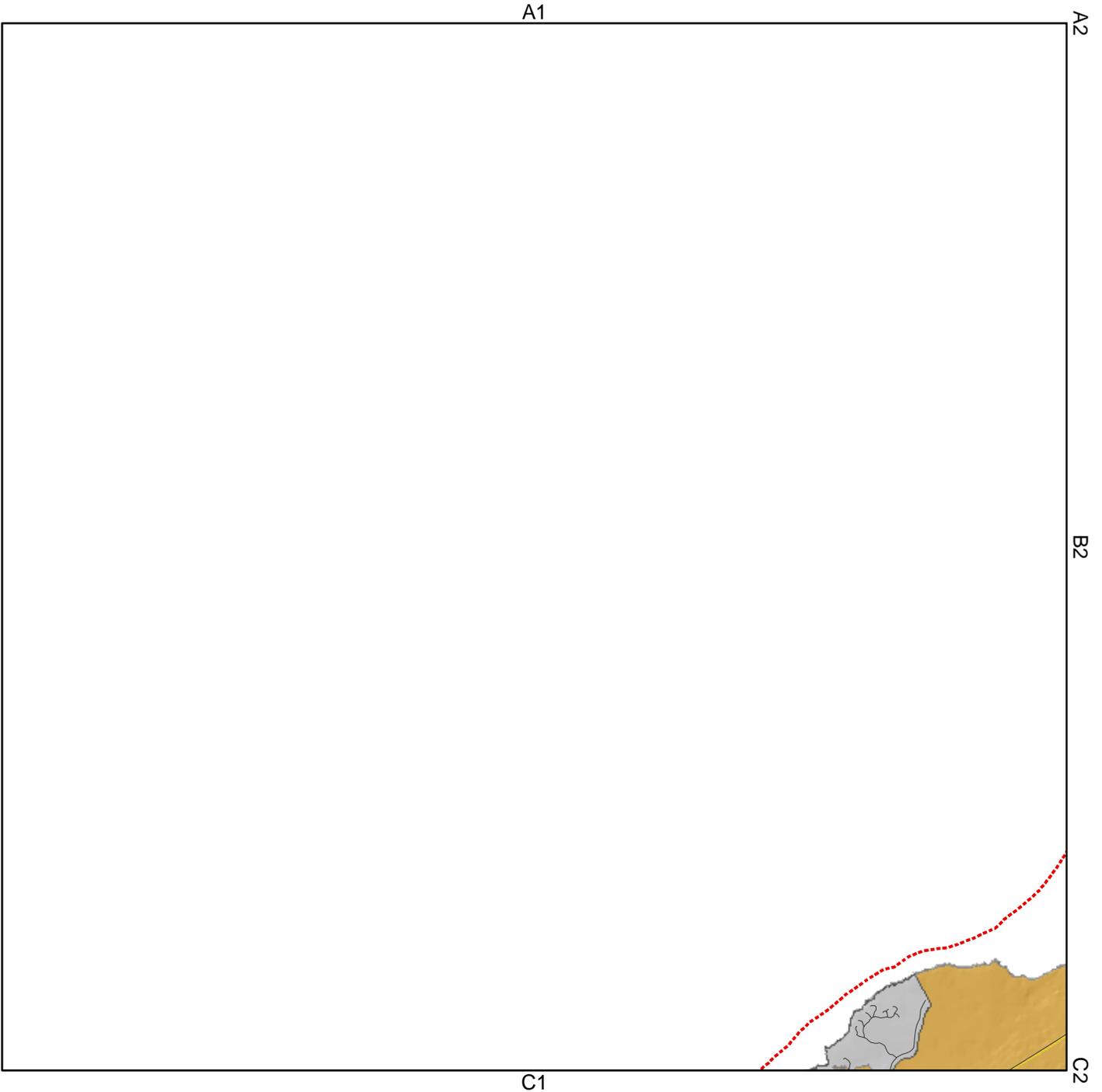
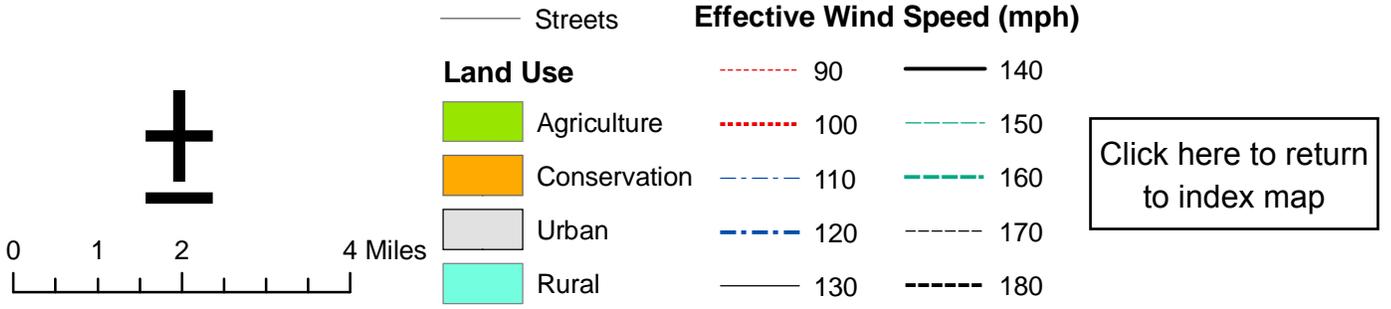
Effective Wind Speed Contour for the Island of Hawaii (A4)

(for components and cladding with mean roof height less than or equal to 100ft)



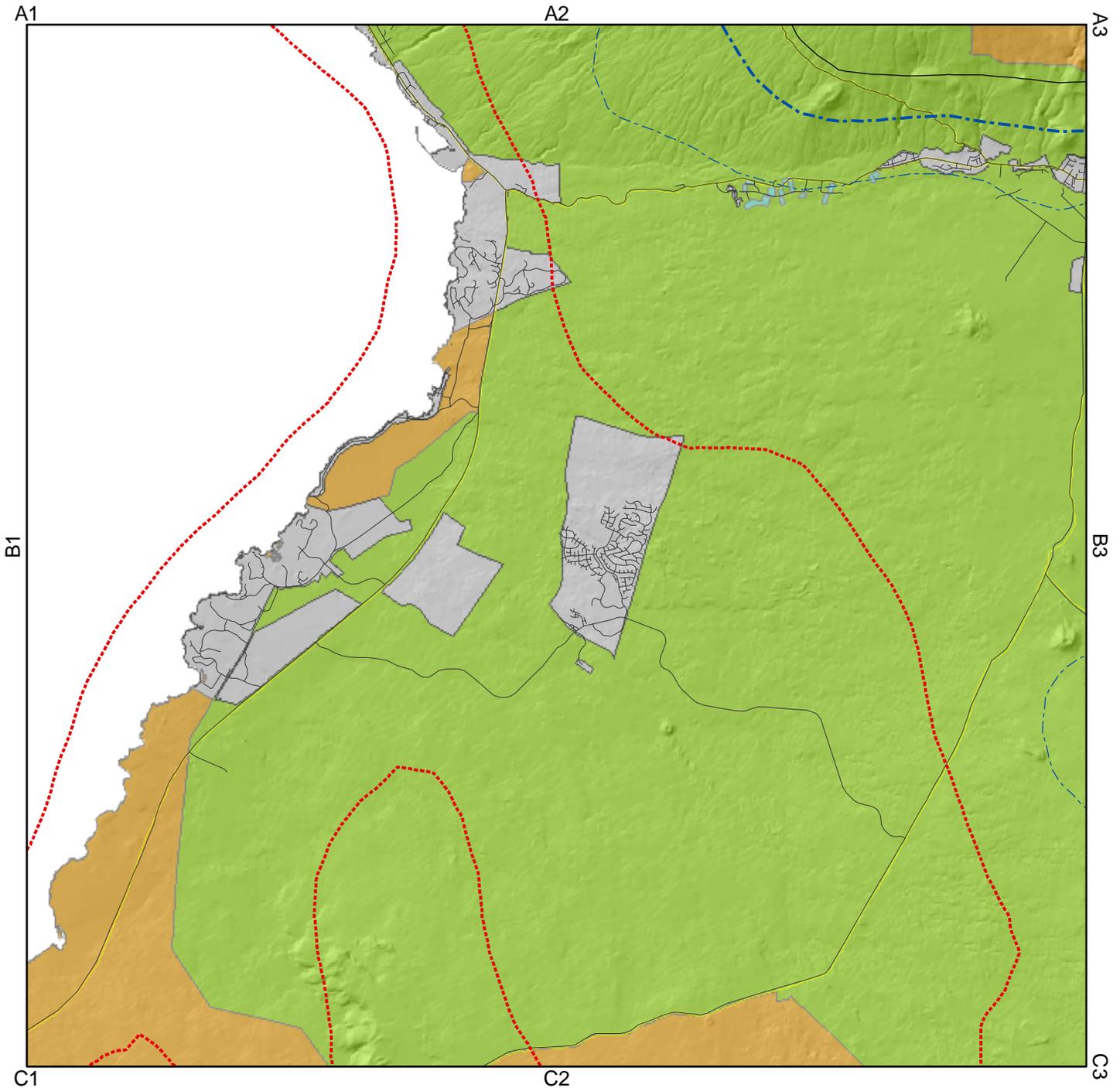
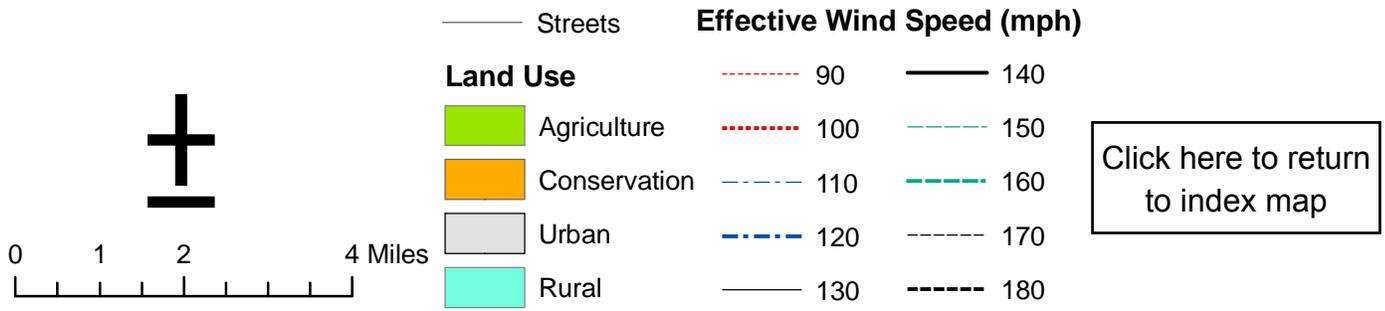
Effective Wind Speed Contour for the Island of Hawaii (B1)

(for components and cladding with mean roof height less than or equal to 100ft)



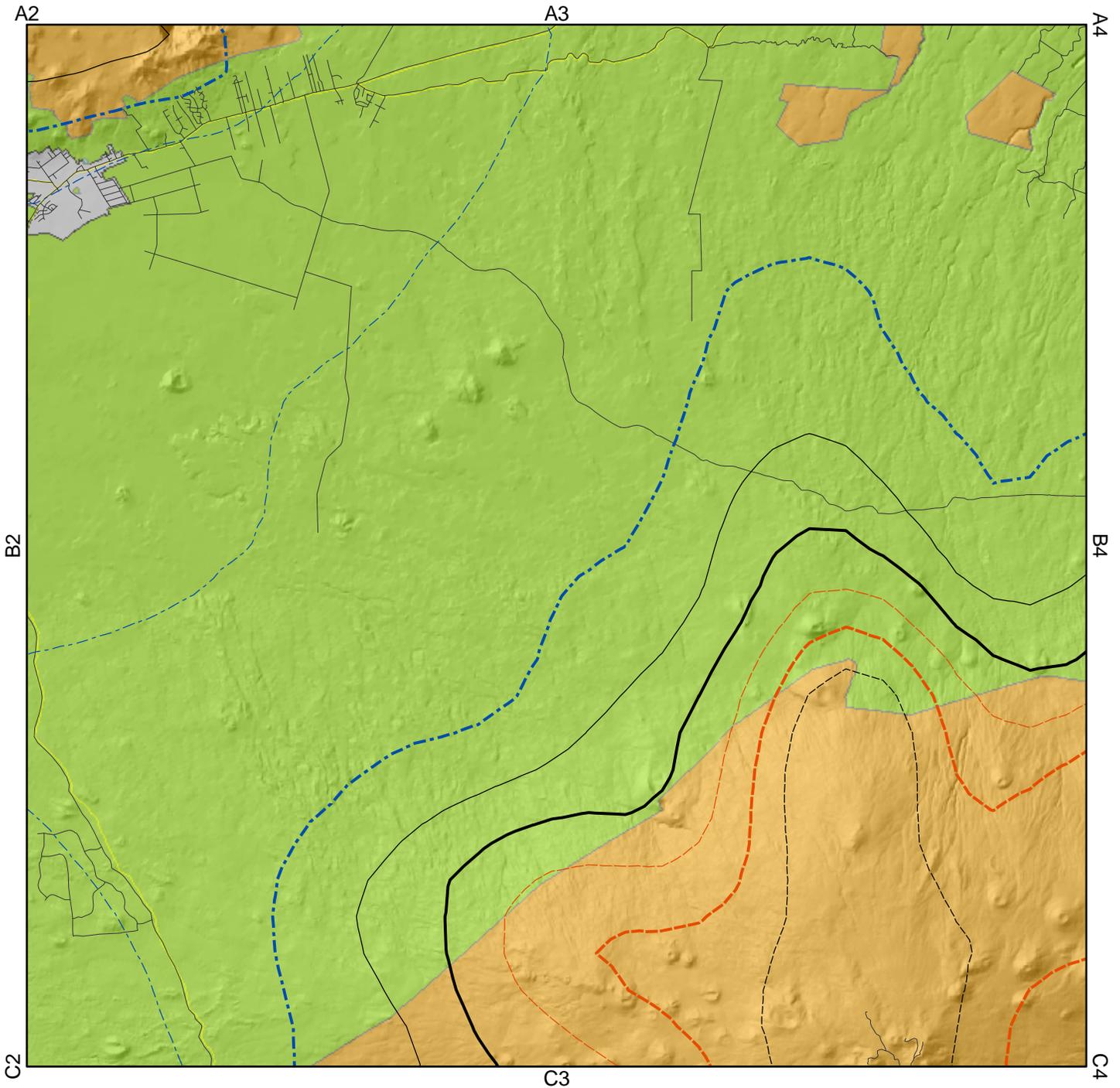
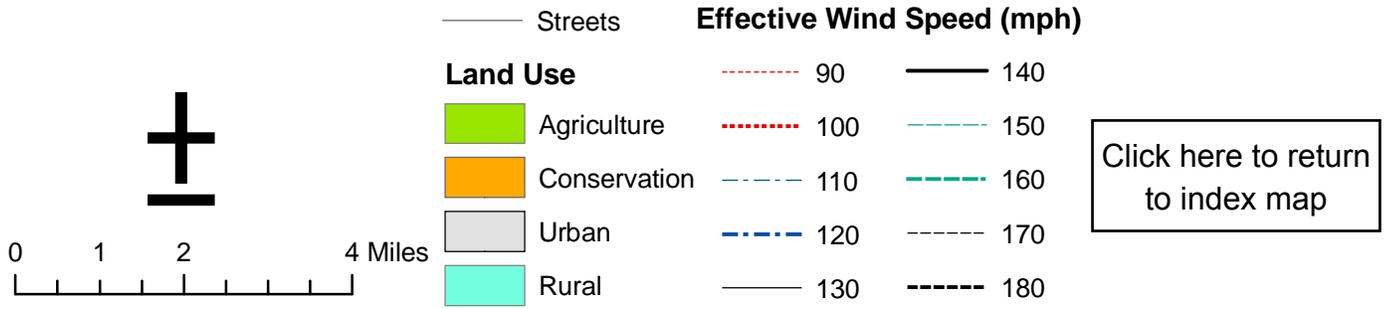
Effective Wind Speed Contour for the Island of Hawaii (B2)

(for components and cladding with mean roof height less than or equal to 100ft)



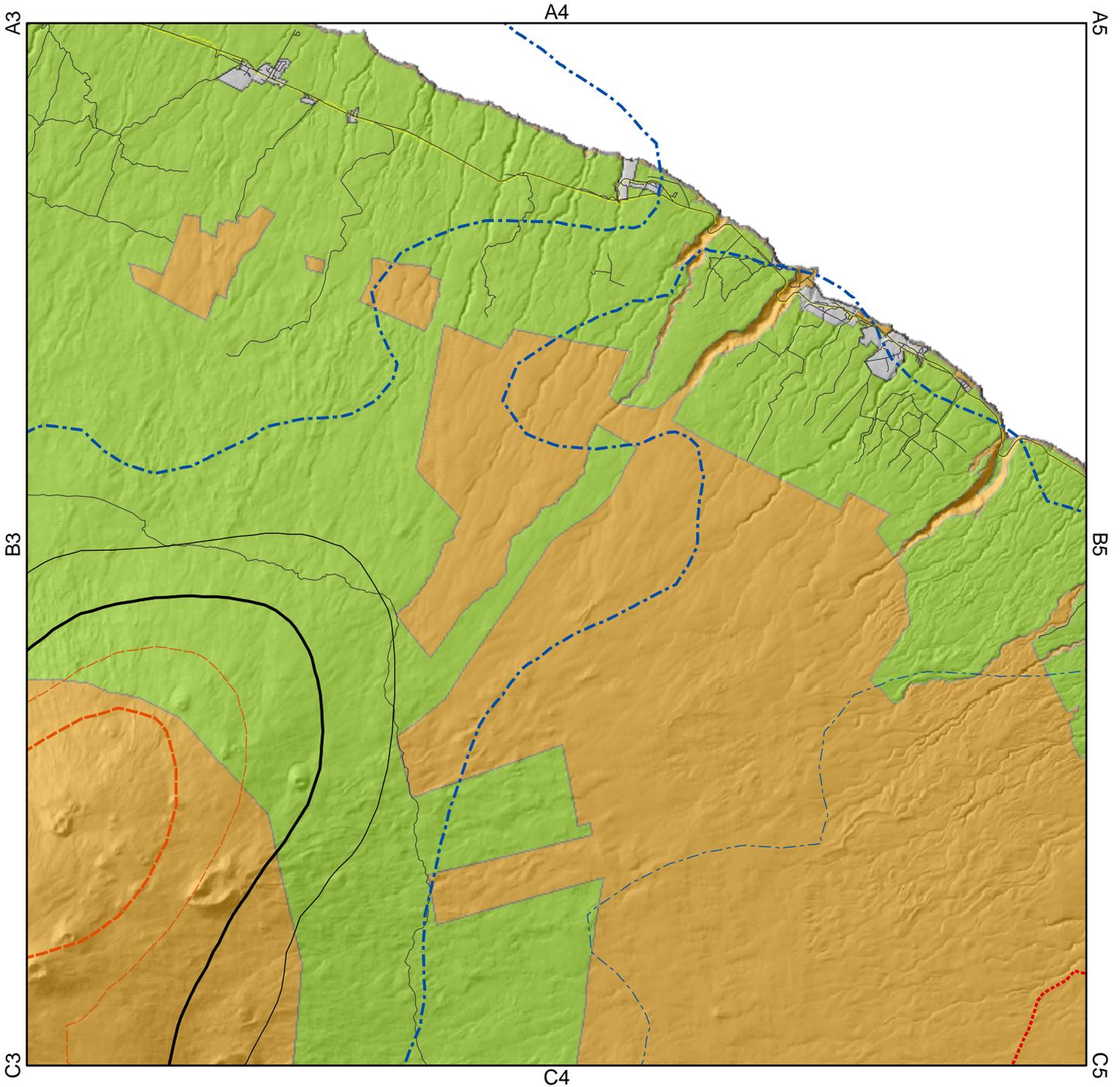
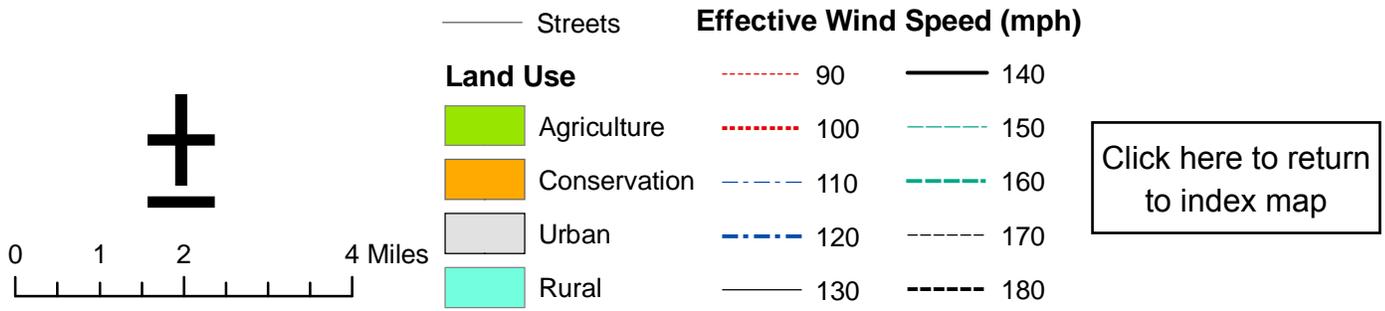
Effective Wind Speed Contour for the Island of Hawaii (B3)

(for components and cladding with mean roof height less than or equal to 100ft)



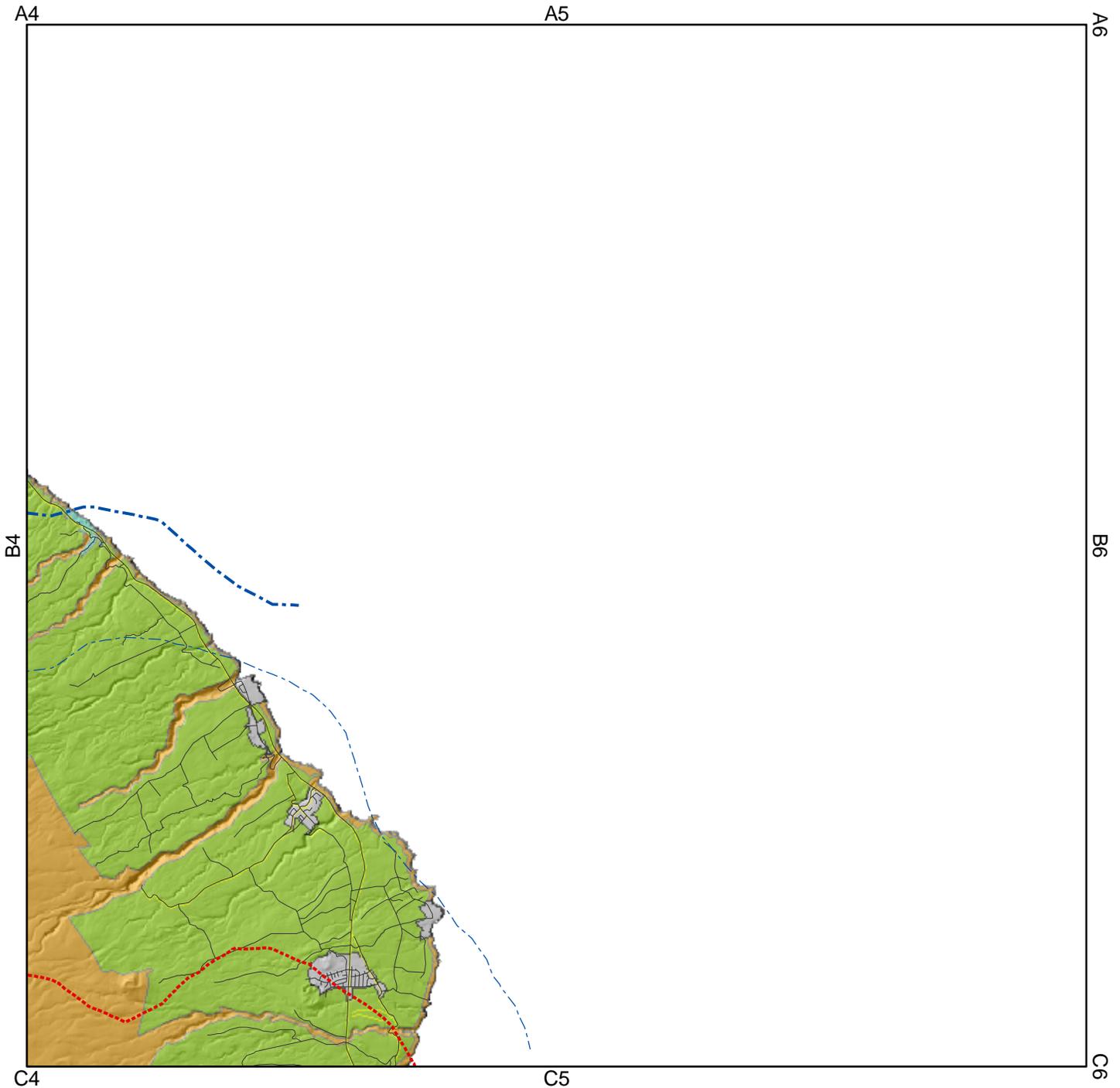
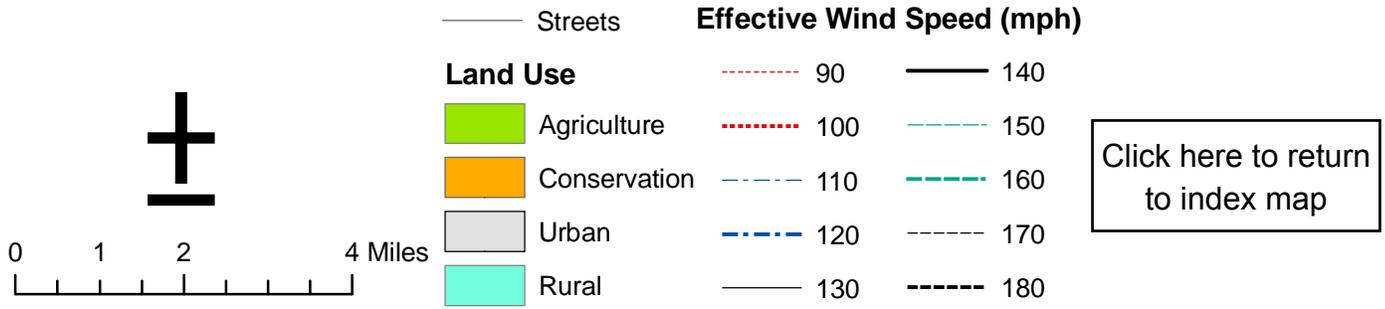
Effective Wind Speed Contour for the Island of Hawaii (B4)

(for components and cladding with mean roof height less than or equal to 100ft)



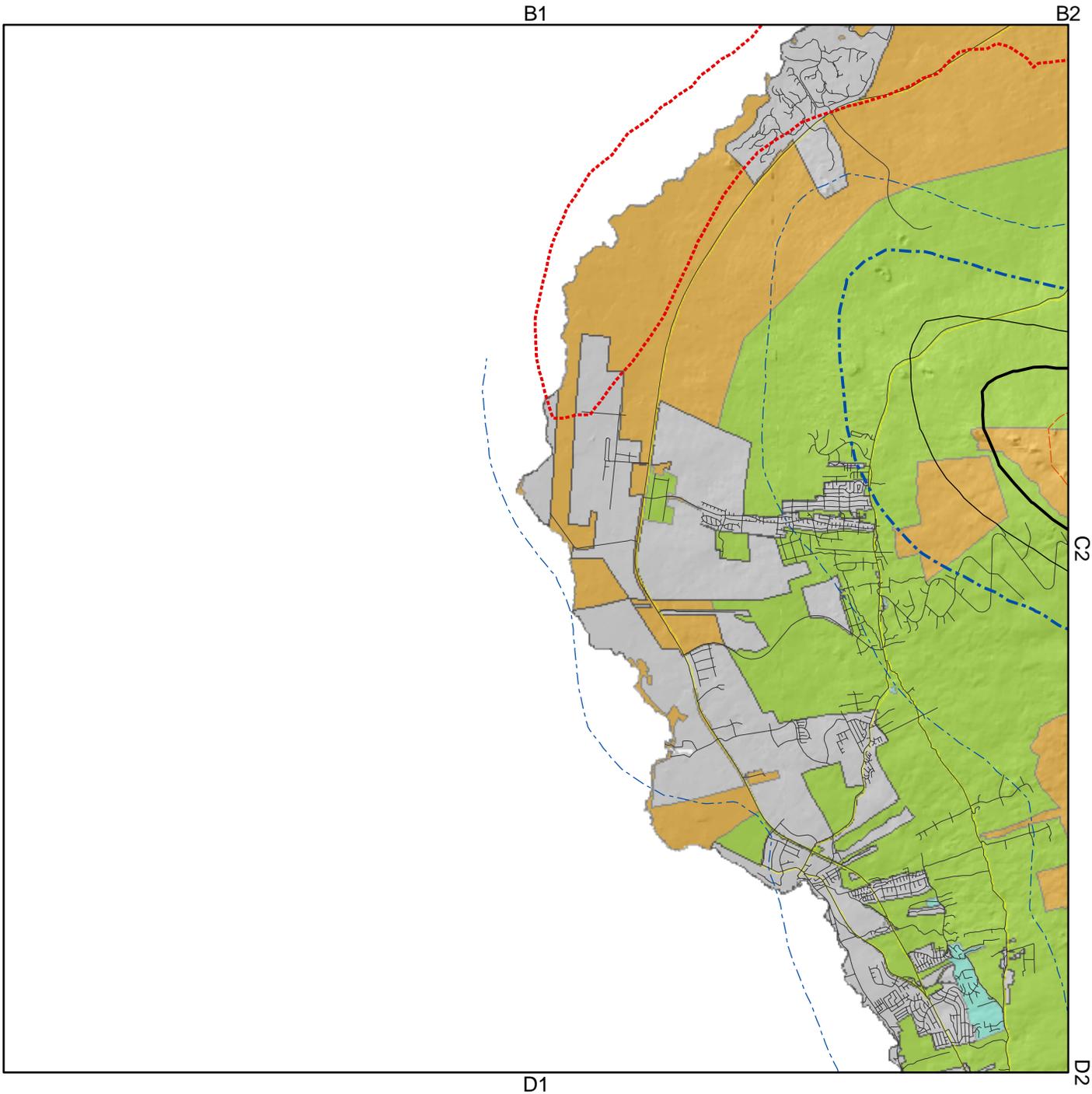
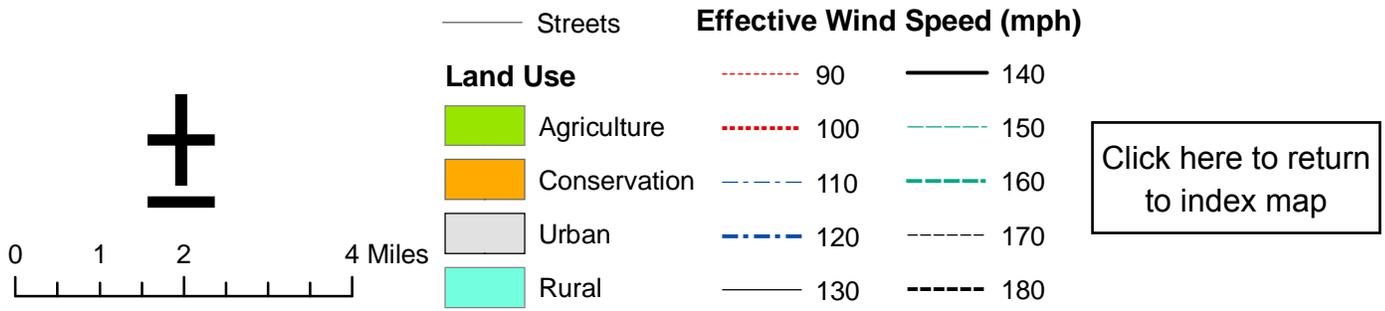
Effective Wind Speed Contour for the Island of Hawaii (B5)

(for components and cladding with mean roof height less than or equal to 100ft)



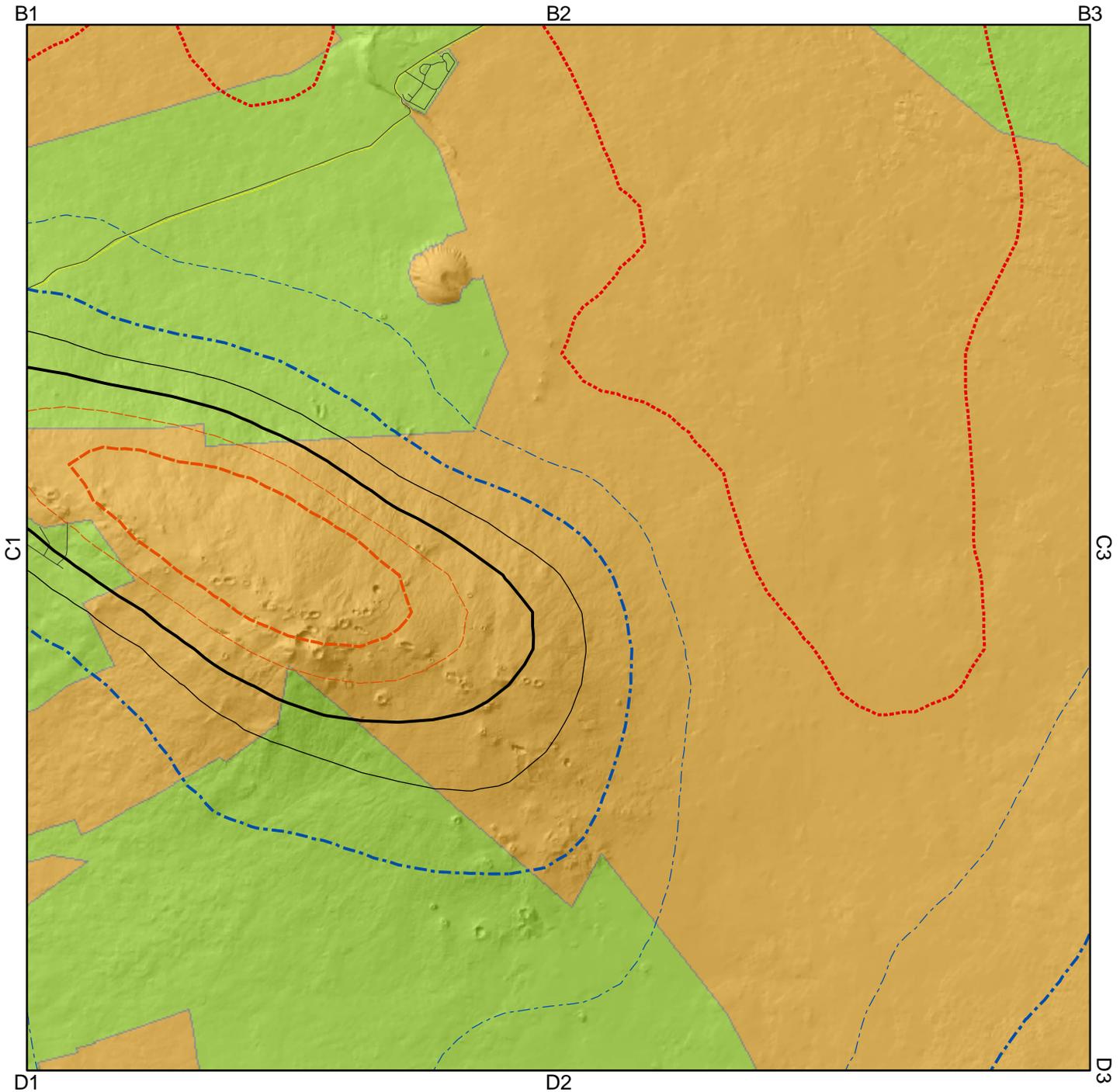
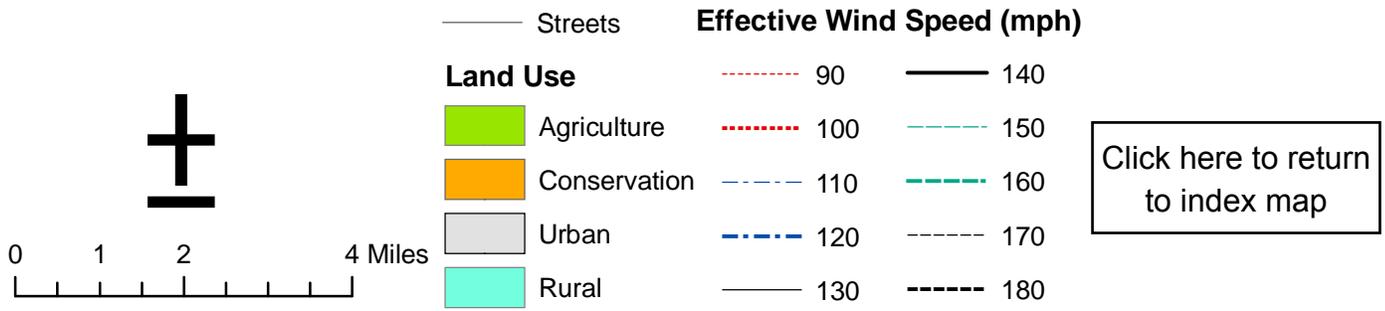
Effective Wind Speed Contour for the Island of Hawaii (C1)

(for components and cladding with mean roof height less than or equal to 100ft)



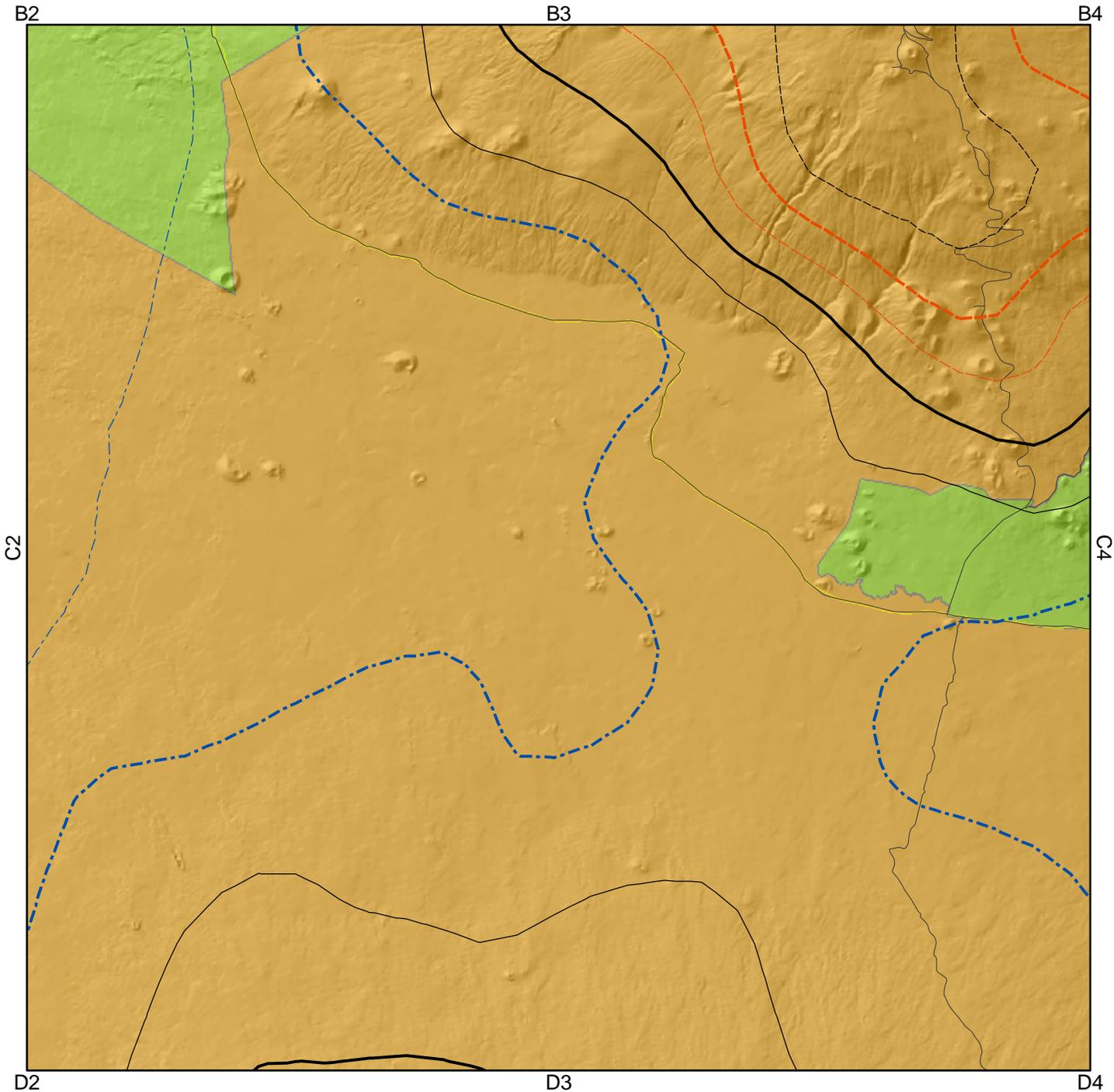
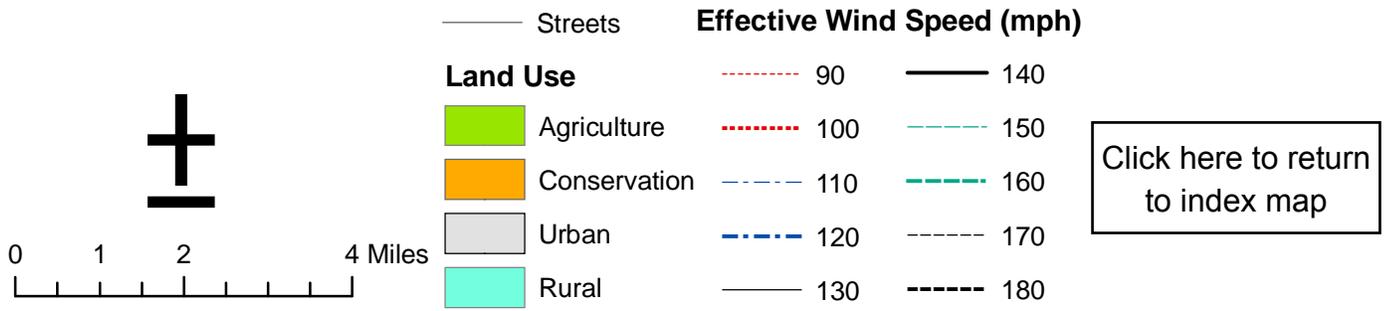
Effective Wind Speed Contour for the Island of Hawaii (C2)

(for components and cladding with mean roof height less than or equal to 100ft)



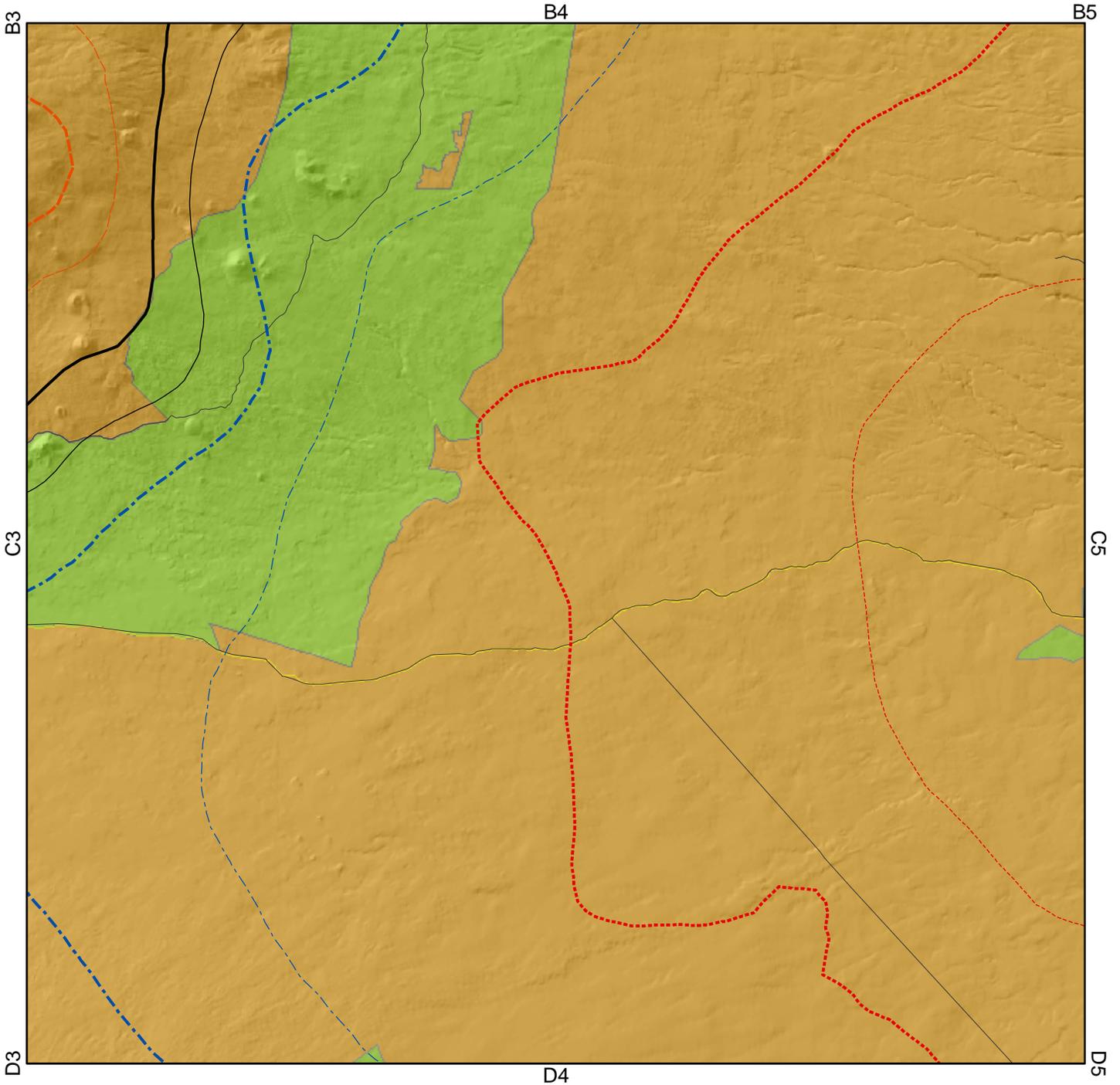
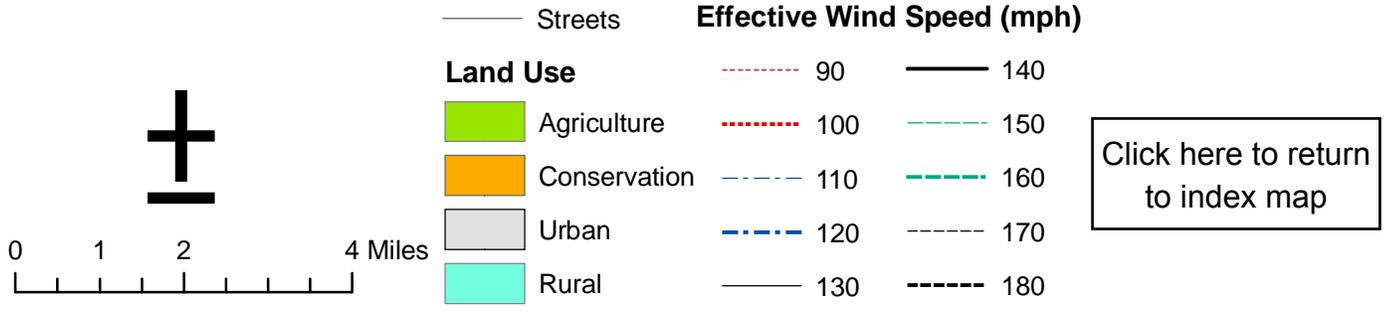
Effective Wind Speed Contour for the Island of Hawaii (C3)

(for components and cladding with mean roof height less than or equal to 100ft)



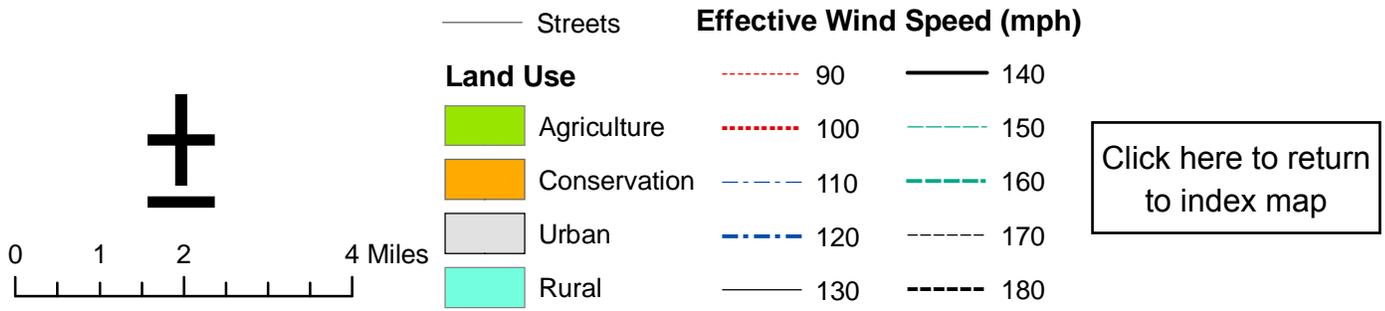
Effective Wind Speed Contour for the Island of Hawaii (C4)

(for components and cladding with mean roof height less than or equal to 100ft)



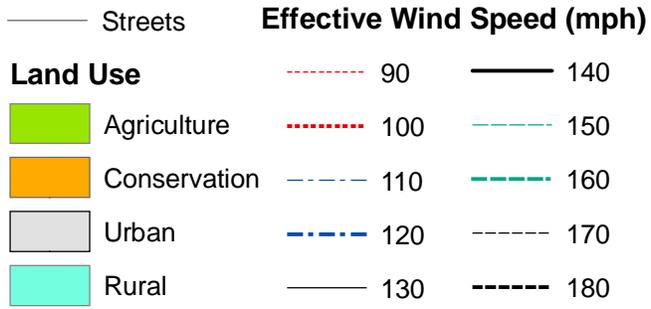
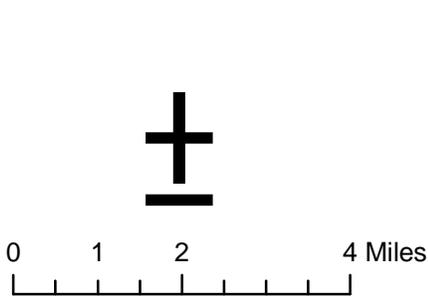
Effective Wind Speed Contour for the Island of Hawaii (C5)

(for components and cladding with mean roof height less than or equal to 100ft)

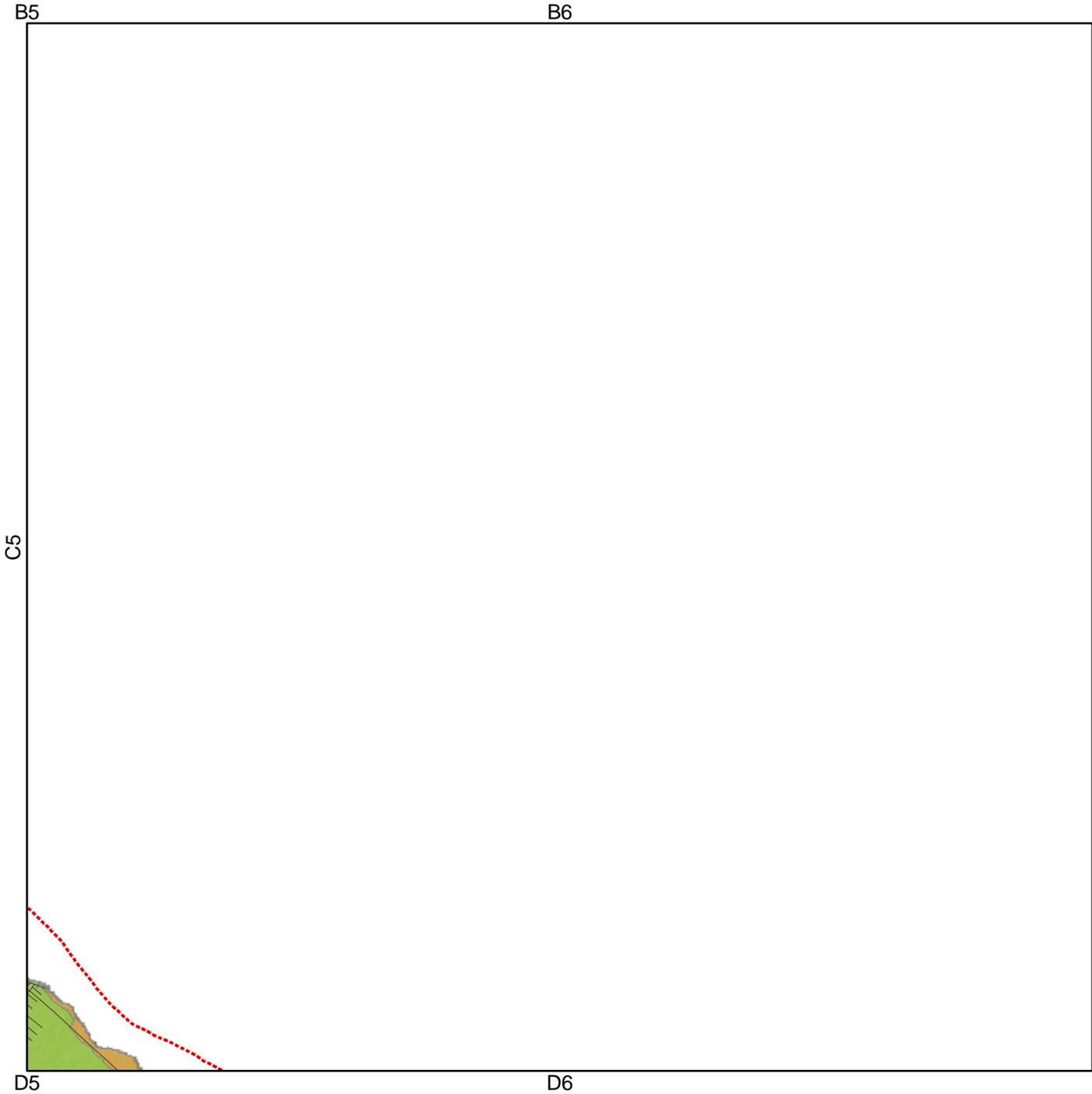


Effective Wind Speed Contour for the Island of Hawaii (C6)

(for components and cladding with mean roof height less than or equal to 100ft)

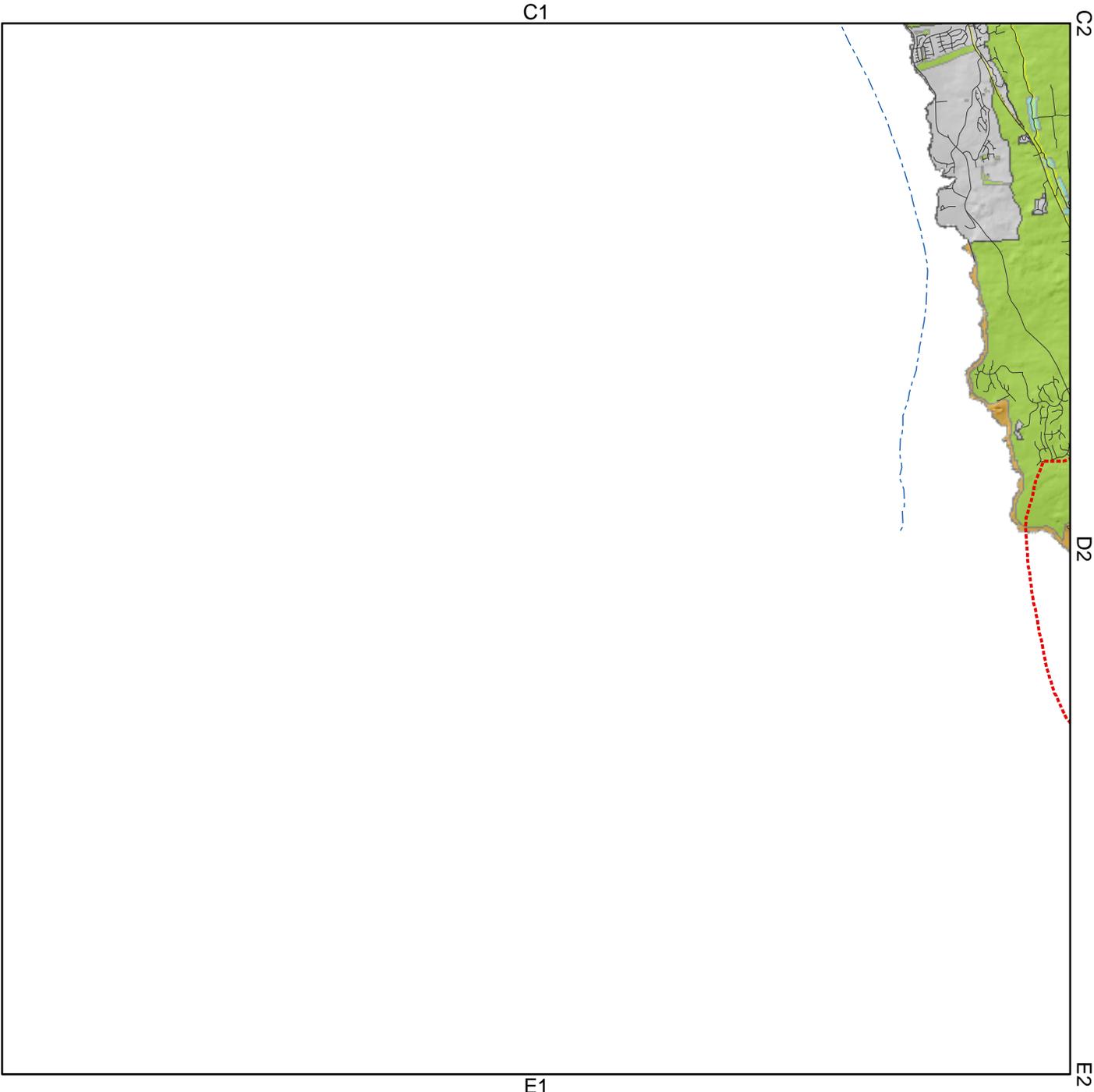
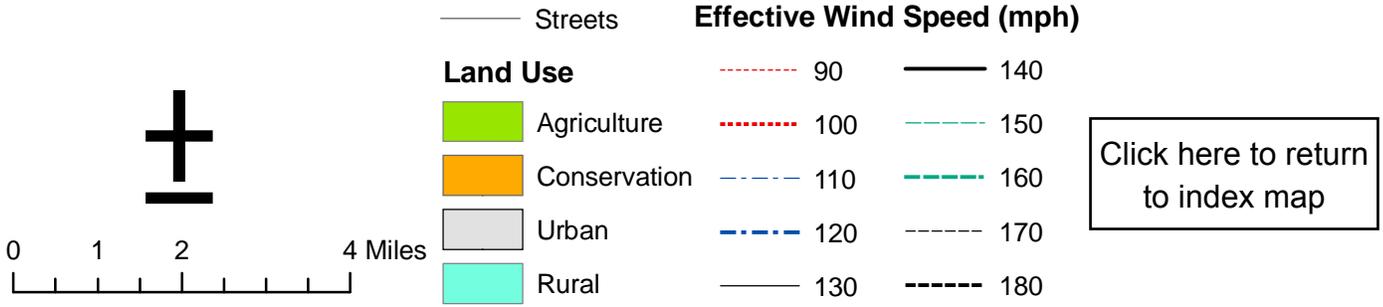


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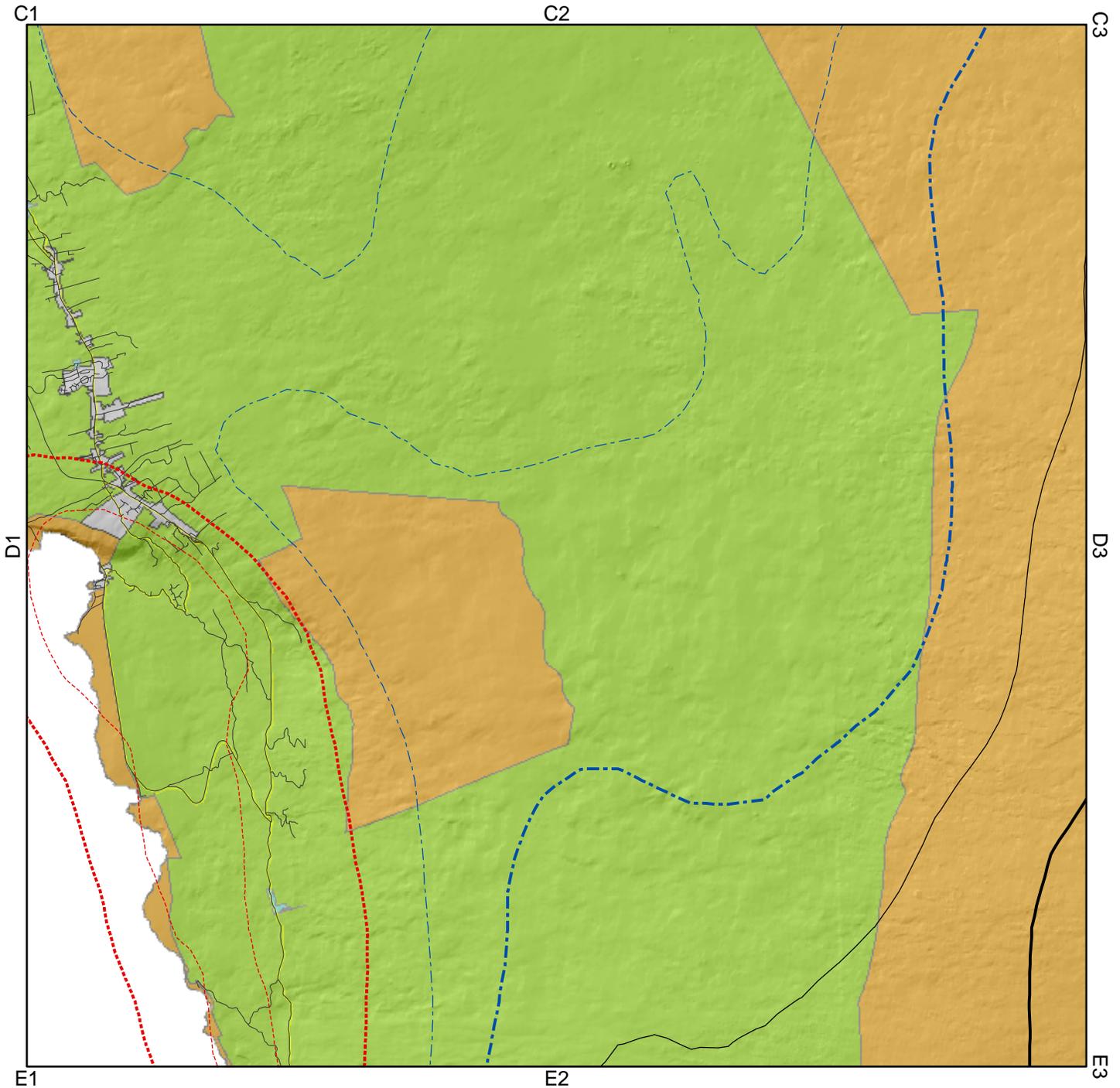
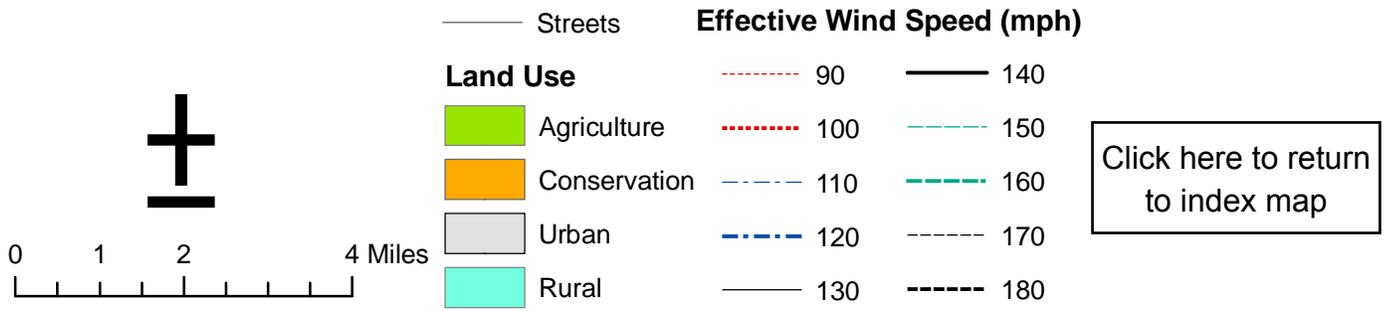
Effective Wind Speed Contour for the Island of Hawaii (D1)

(for components and cladding with mean roof height less than or equal to 100ft)



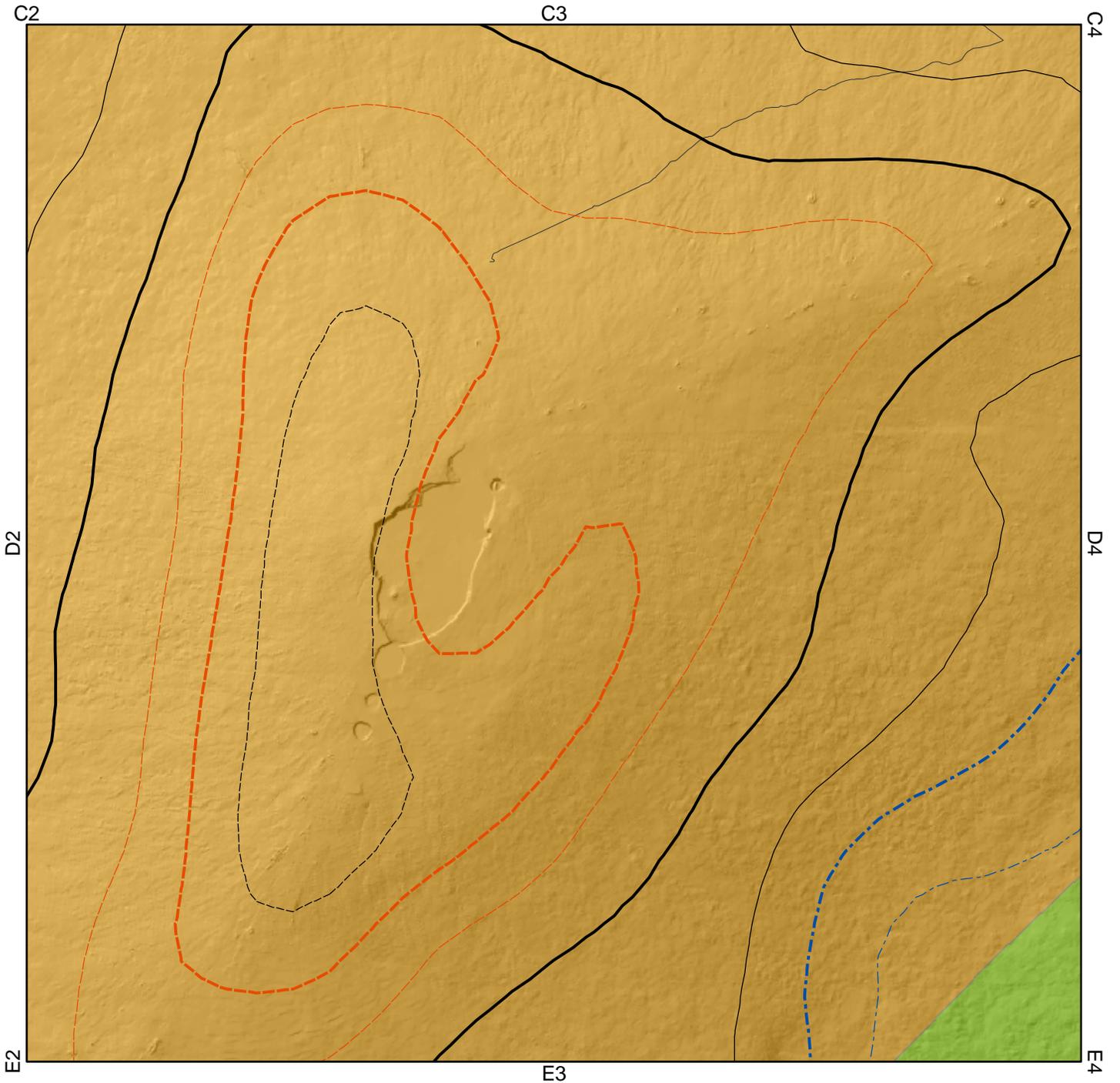
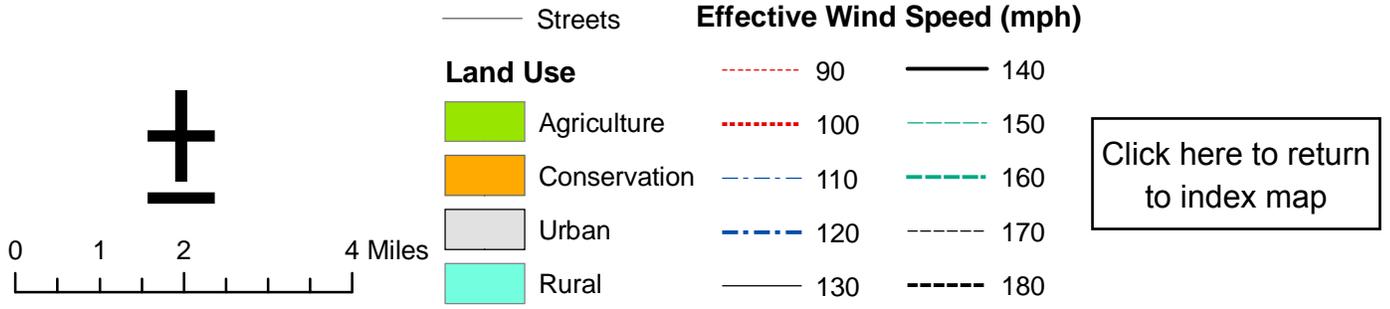
Effective Wind Speed Contour for the Island of Hawaii (D2)

(for components and cladding with mean roof height less than or equal to 100ft)



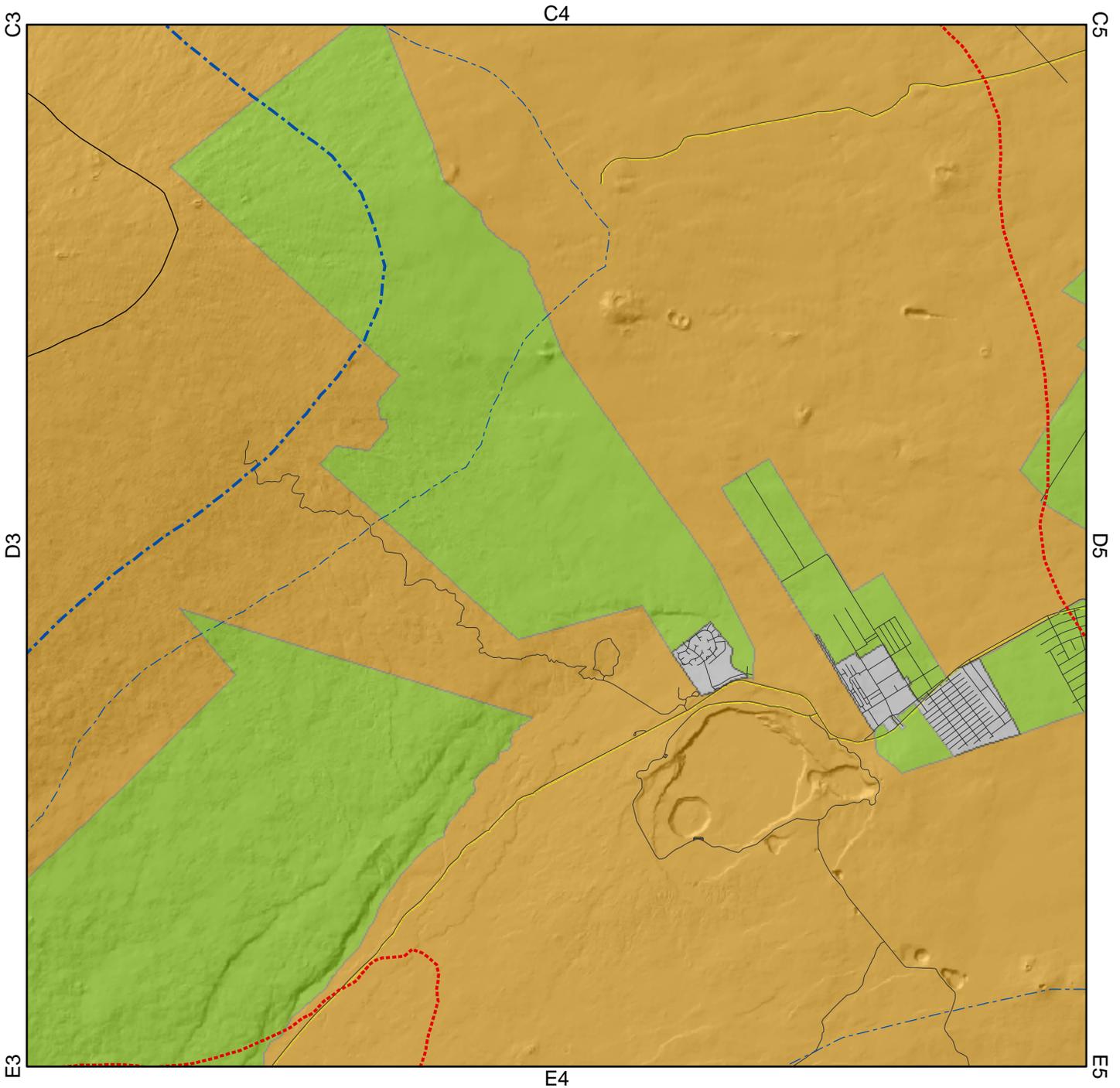
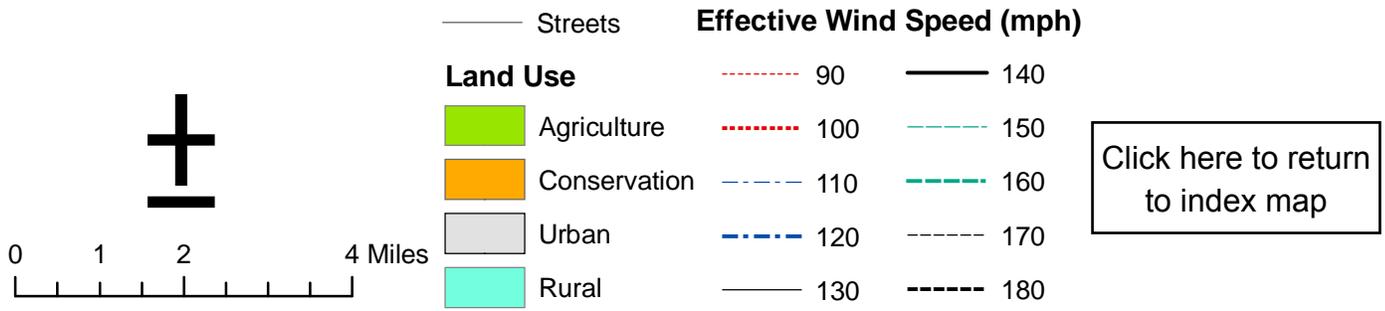
Effective Wind Speed Contour for the Island of Hawaii (D3)

(for components and cladding with mean roof height less than or equal to 100ft)



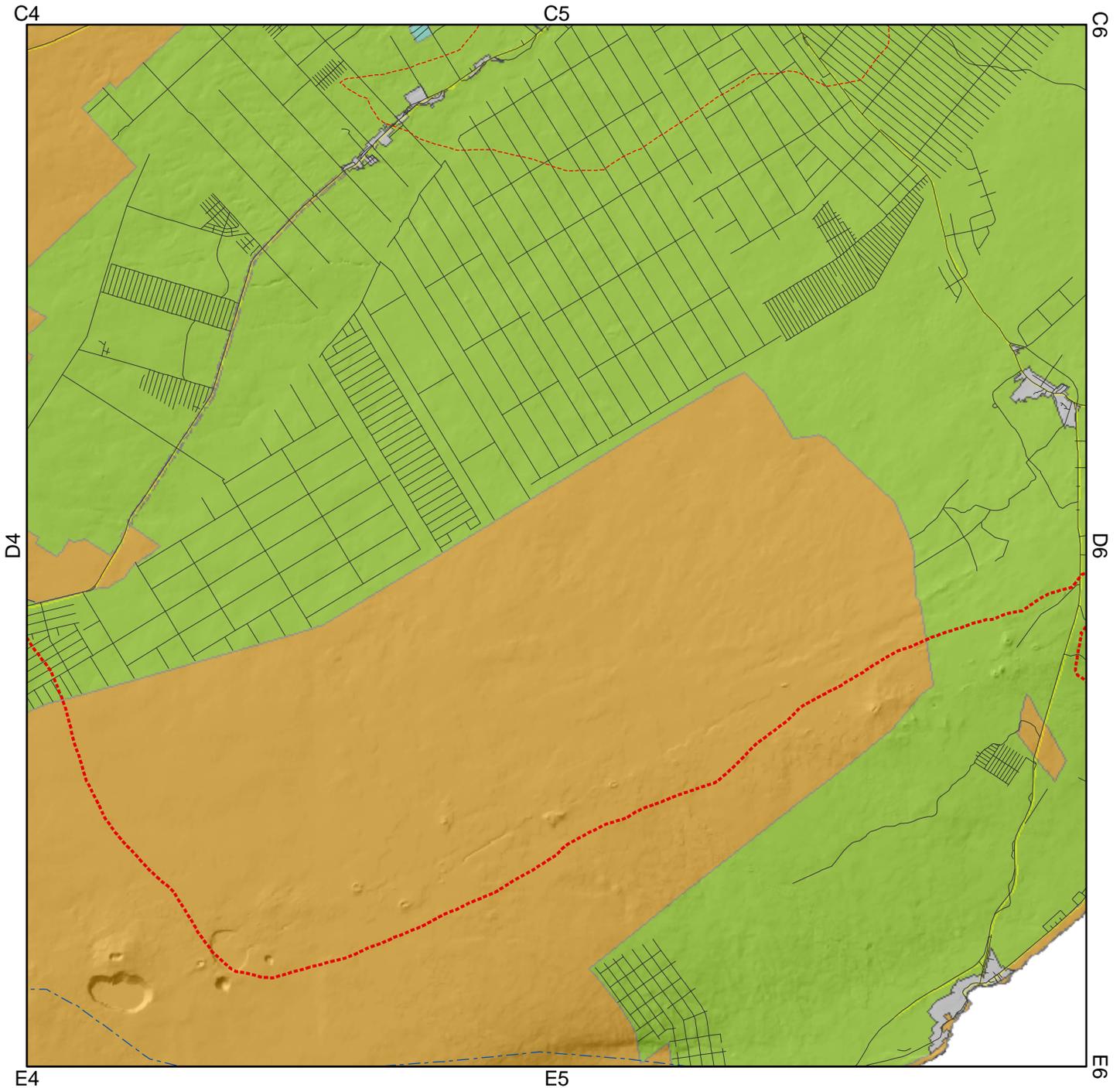
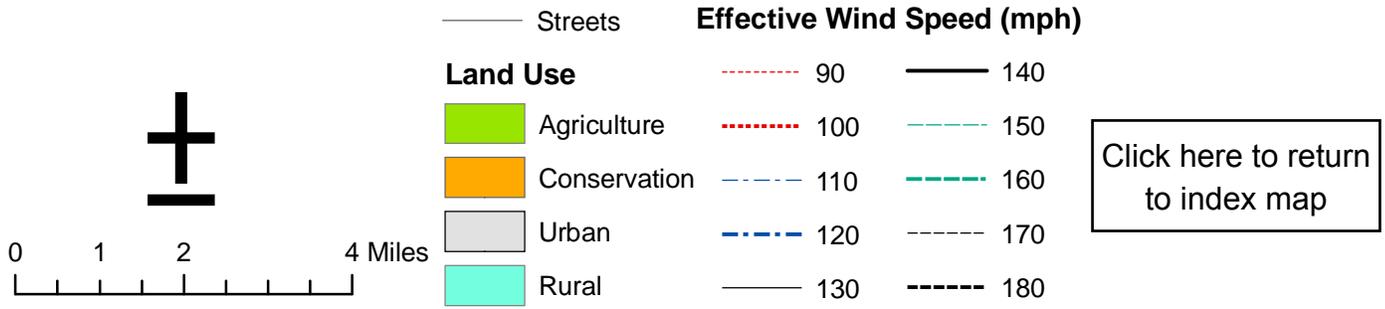
Effective Wind Speed Contour for the Island of Hawaii (D4)

(for components and cladding with mean roof height less than or equal to 100ft)



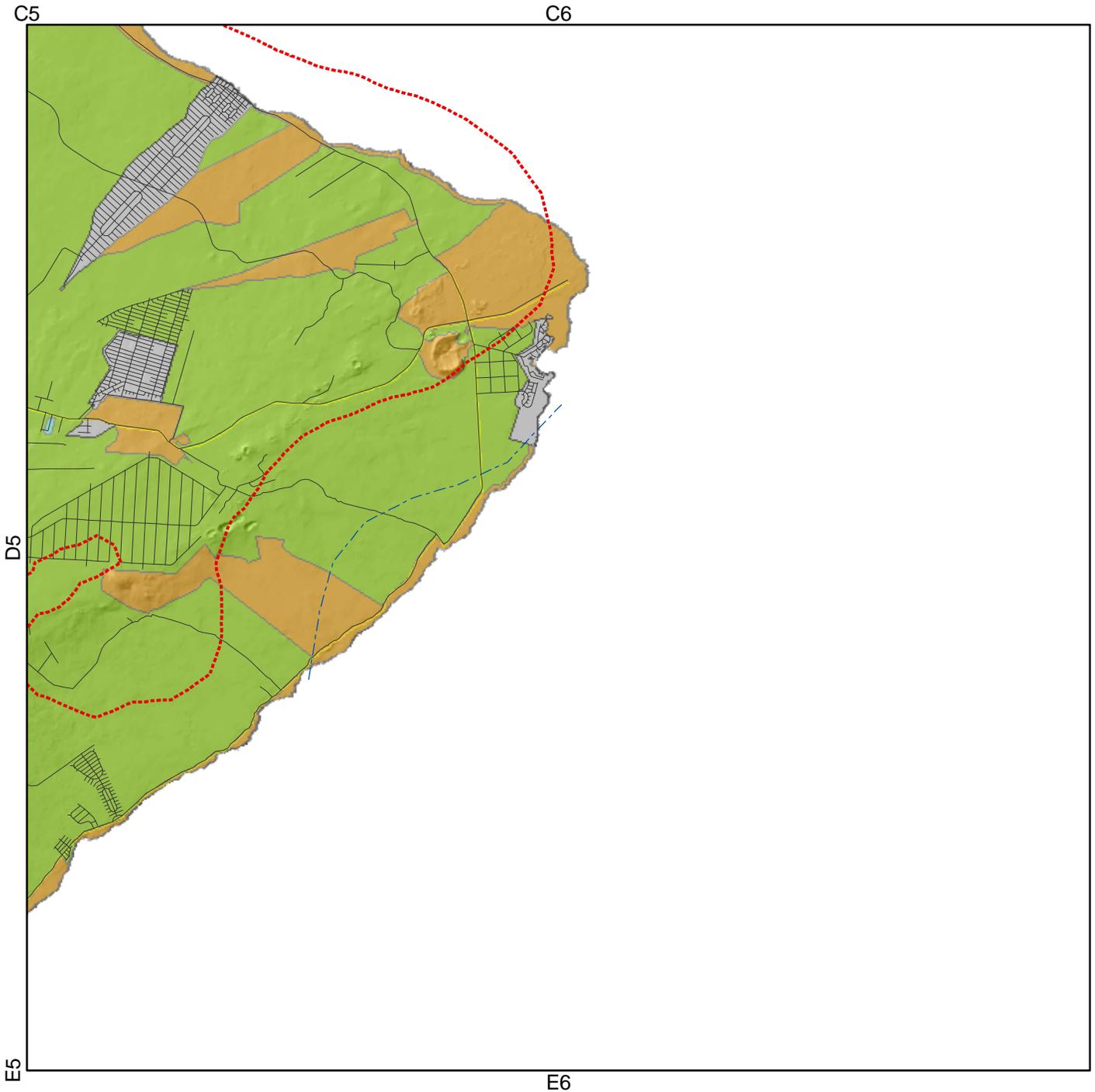
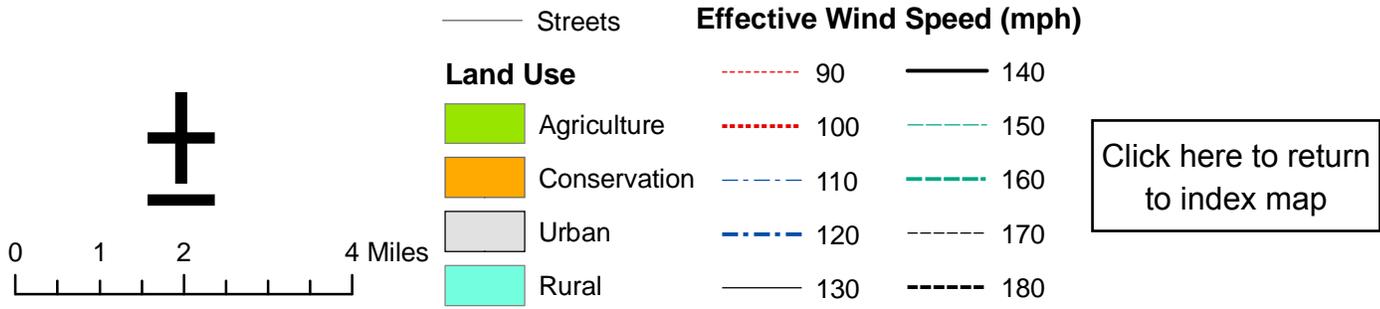
Effective Wind Speed Contour for the Island of Hawaii (D5)

(for components and cladding with mean roof height less than or equal to 100ft)



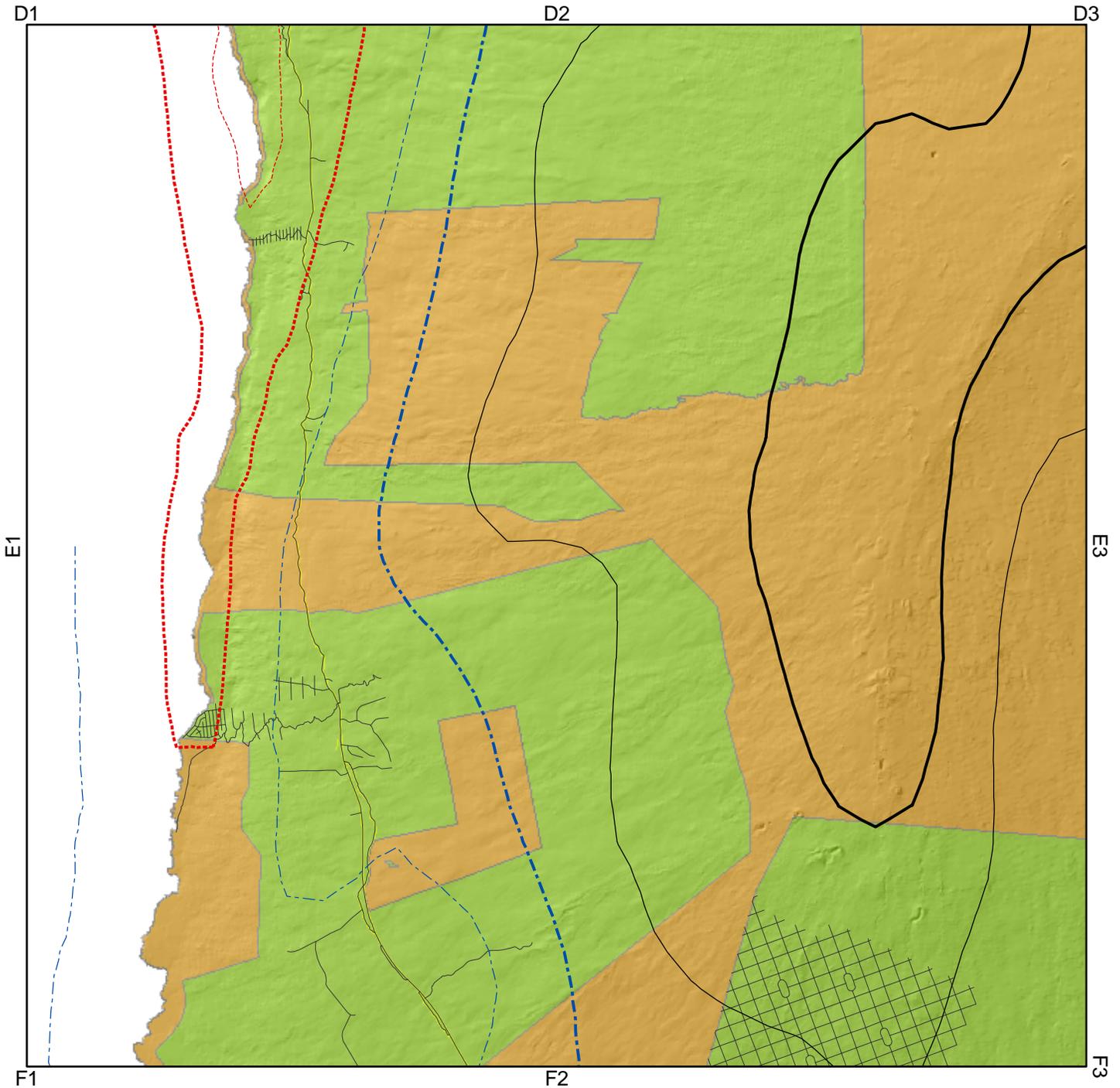
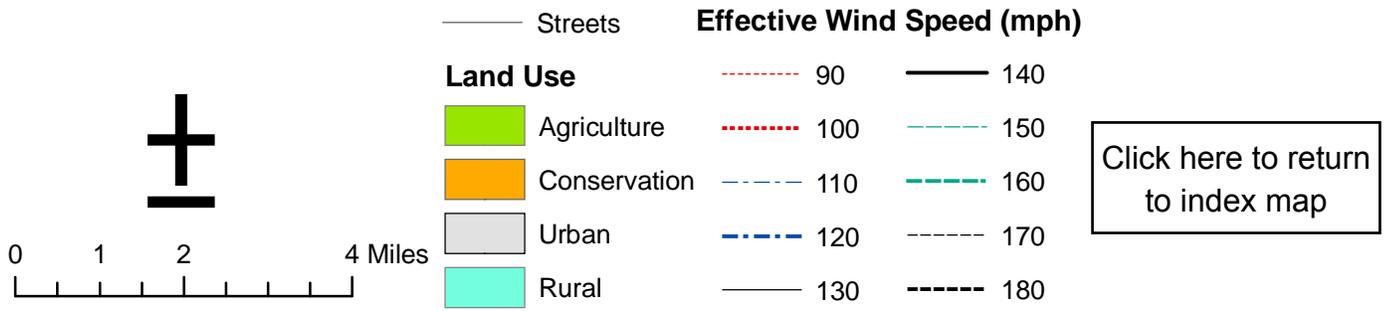
Effective Wind Speed Contour for the Island of Hawaii (D6)

(for components and cladding with mean roof height less than or equal to 100ft)



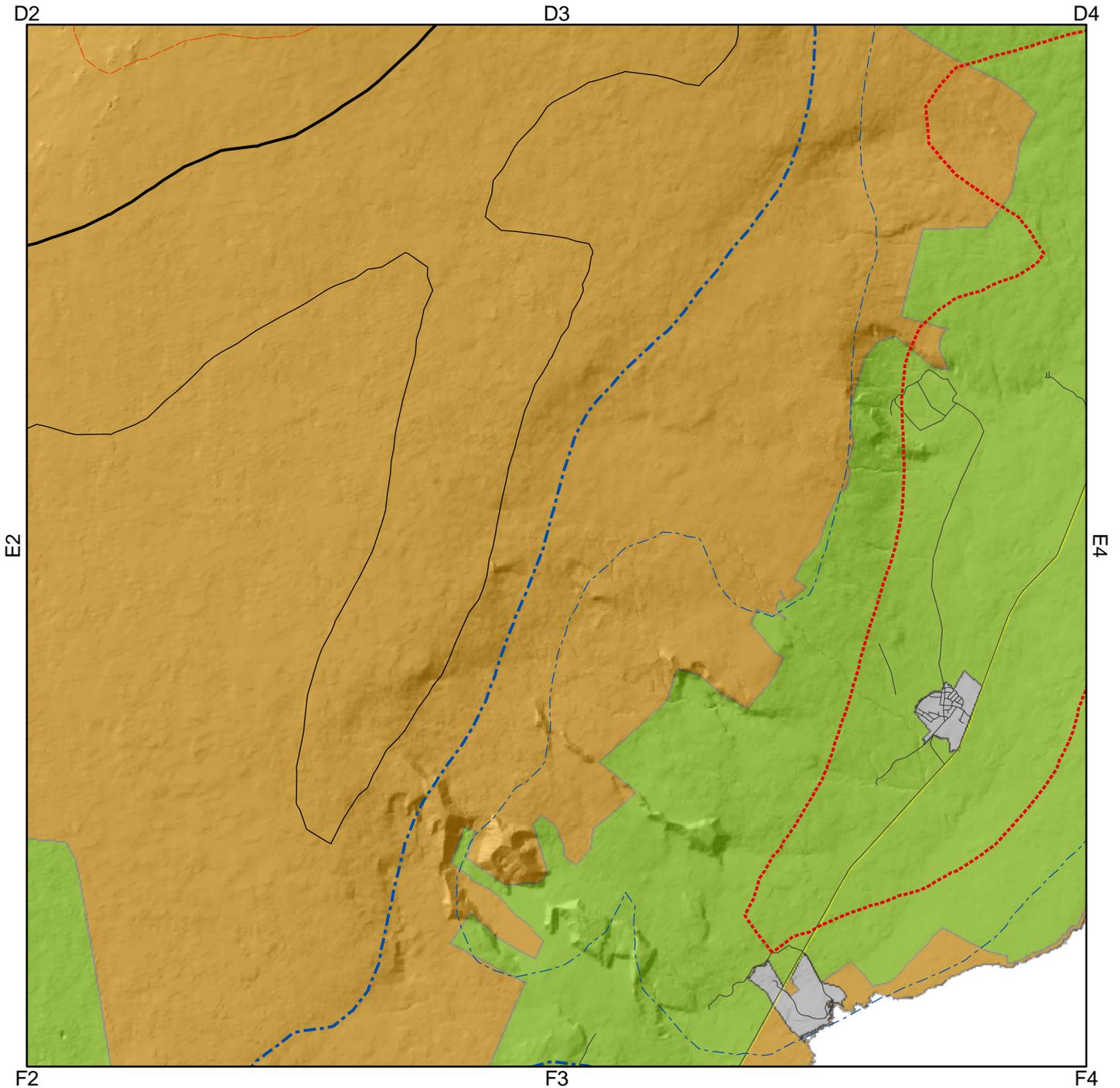
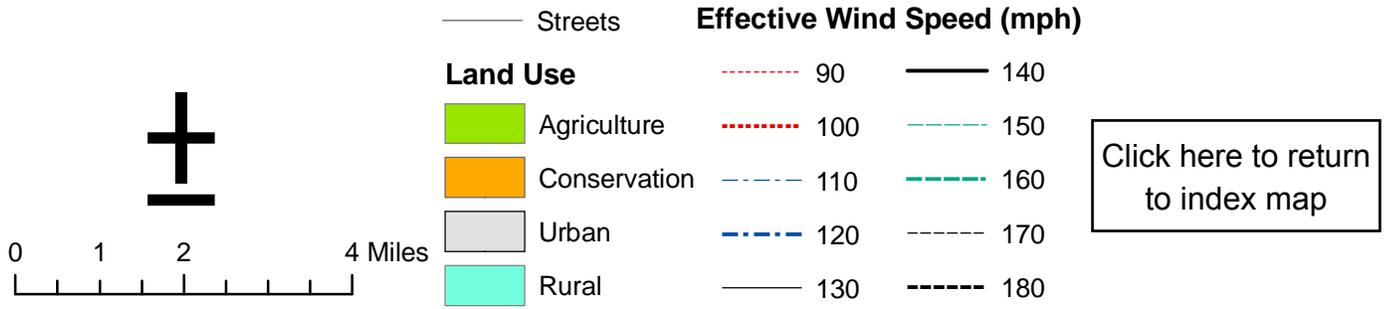
Effective Wind Speed Contour for the Island of Hawaii (E2)

(for components and cladding with mean roof height less than or equal to 100ft)



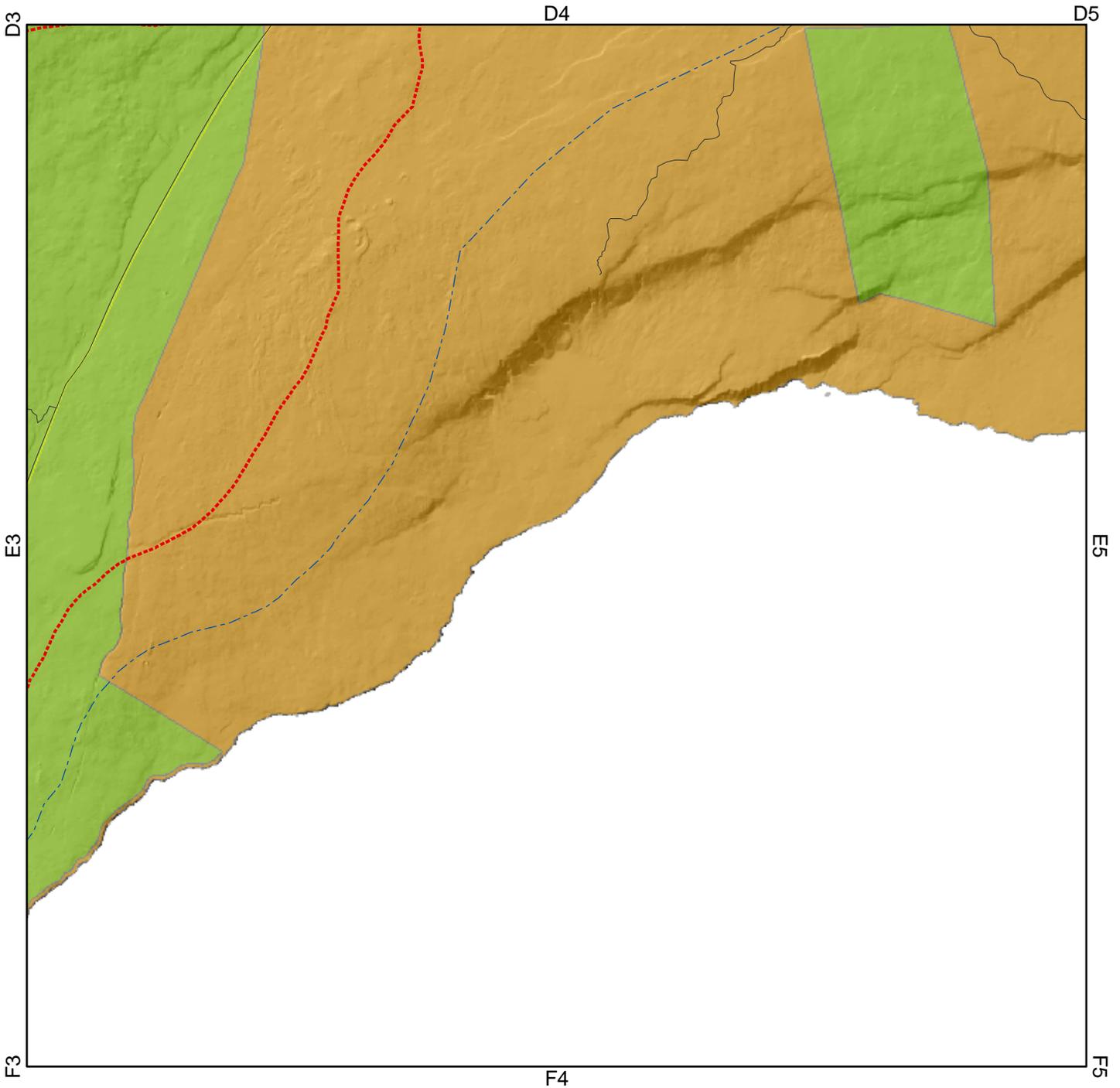
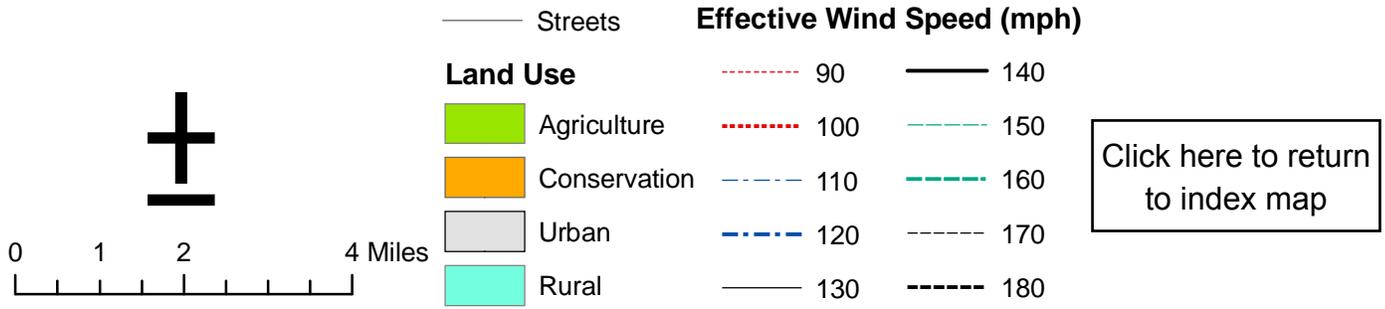
Effective Wind Speed Contour for the Island of Hawaii (E3)

(for components and cladding with mean roof height less than or equal to 100ft)



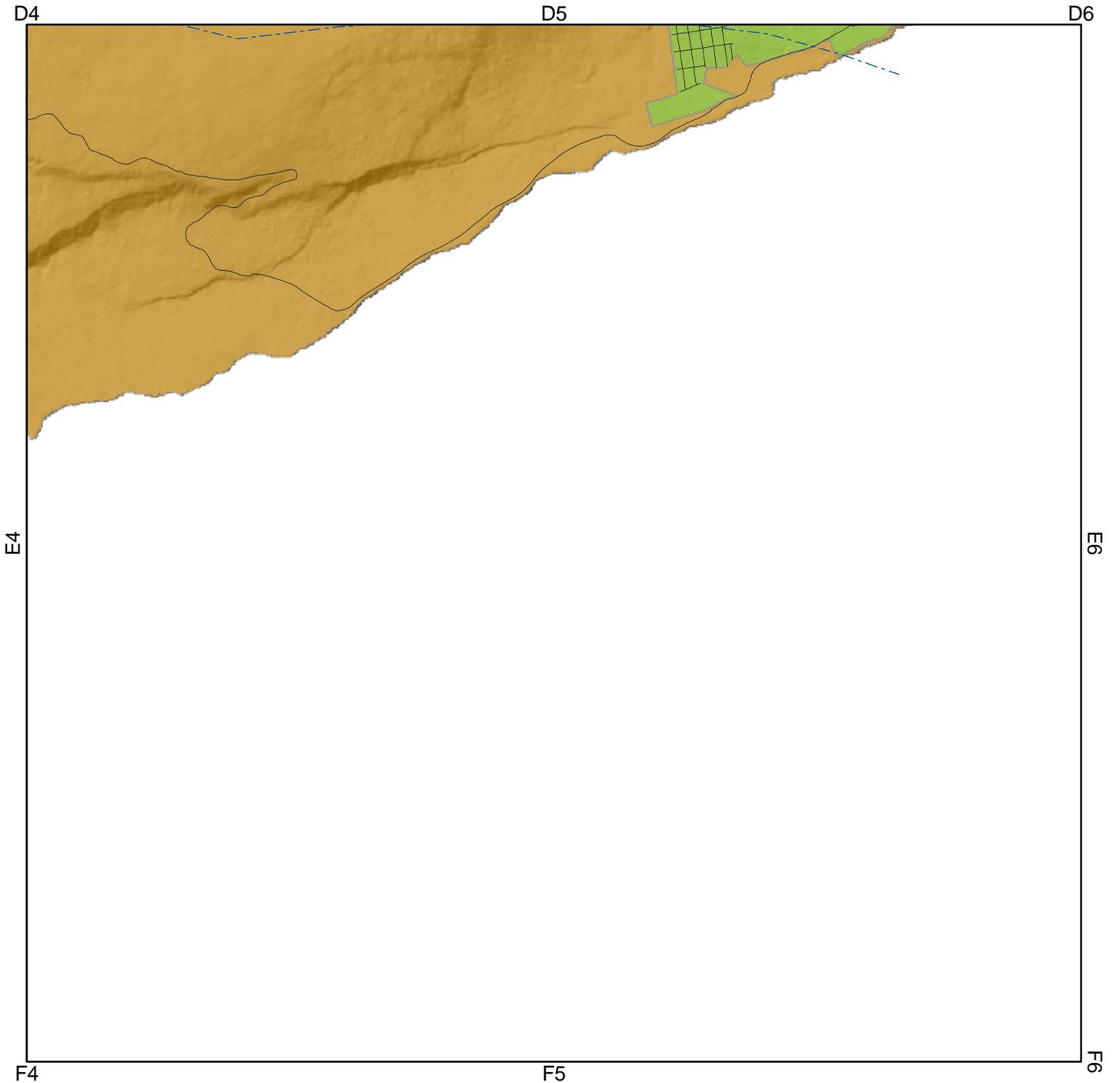
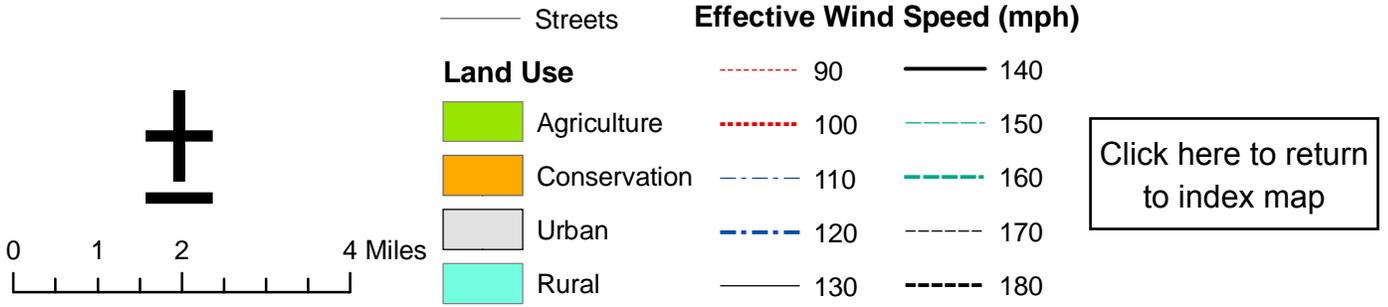
Effective Wind Speed Contour for the Island of Hawaii (E4)

(for components and cladding with mean roof height less than or equal to 100ft)



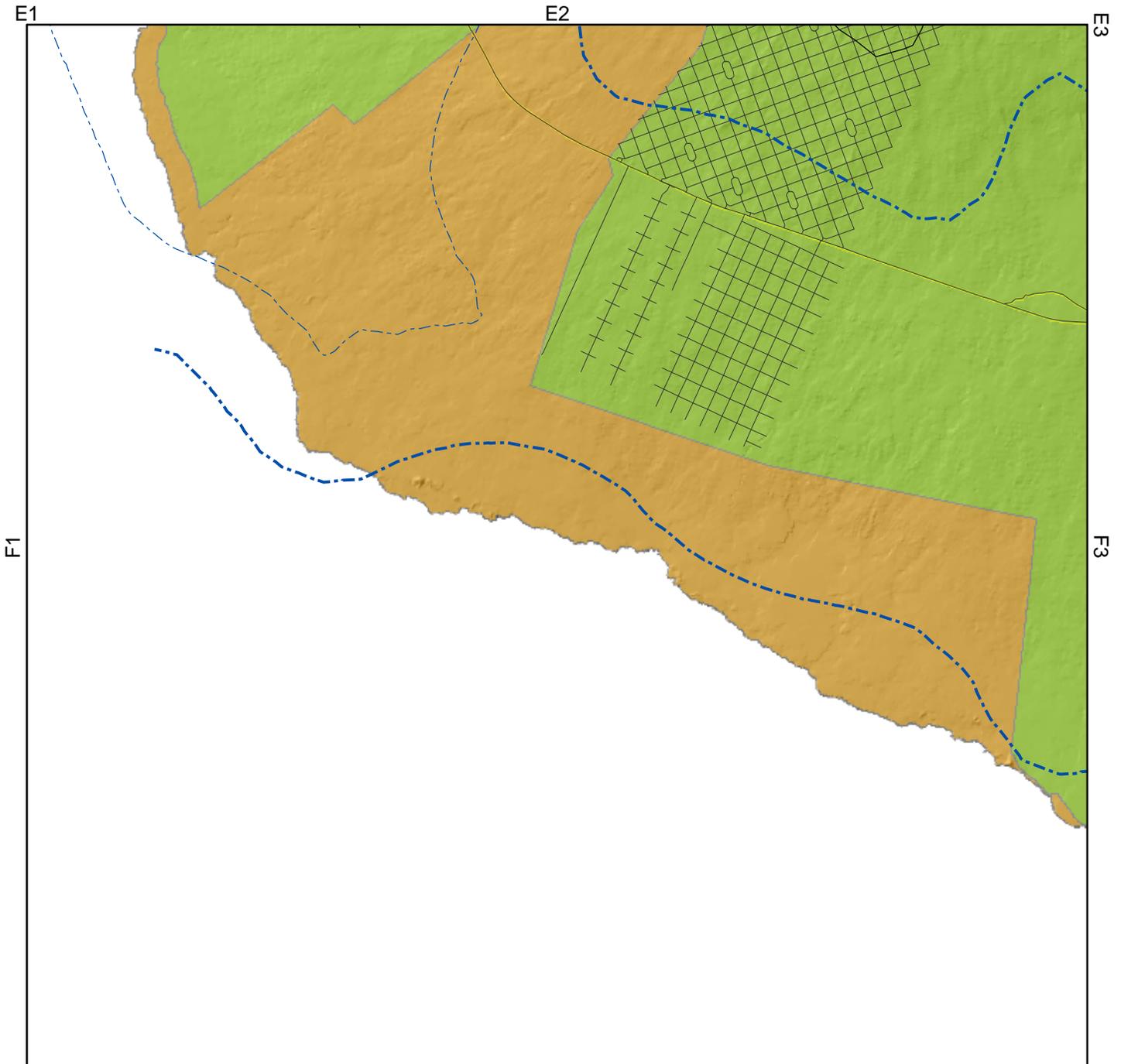
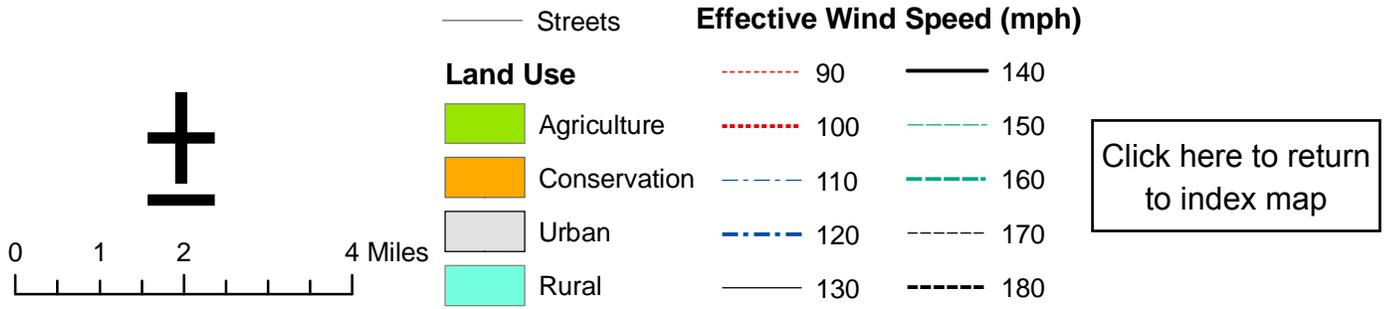
Effective Wind Speed Contour for the Island of Hawaii (E5)

(for components and cladding with mean roof height less than or equal to 100ft)



Effective Wind Speed Contour for the Island of Hawaii (F2)

(for components and cladding with mean roof height less than or equal to 100ft)



Effective Wind Speed Contour for the Island of Hawaii (F3)

(for components and cladding with mean roof height less than or equal to 100ft)

