

Runway 2-20 Reconstruction Project Environmental Assessment

Kahului Airport

PUBLIC INFORMATIONAL BRIEFING

WELCOME



RS&H

Informational Briefing and its Benefit

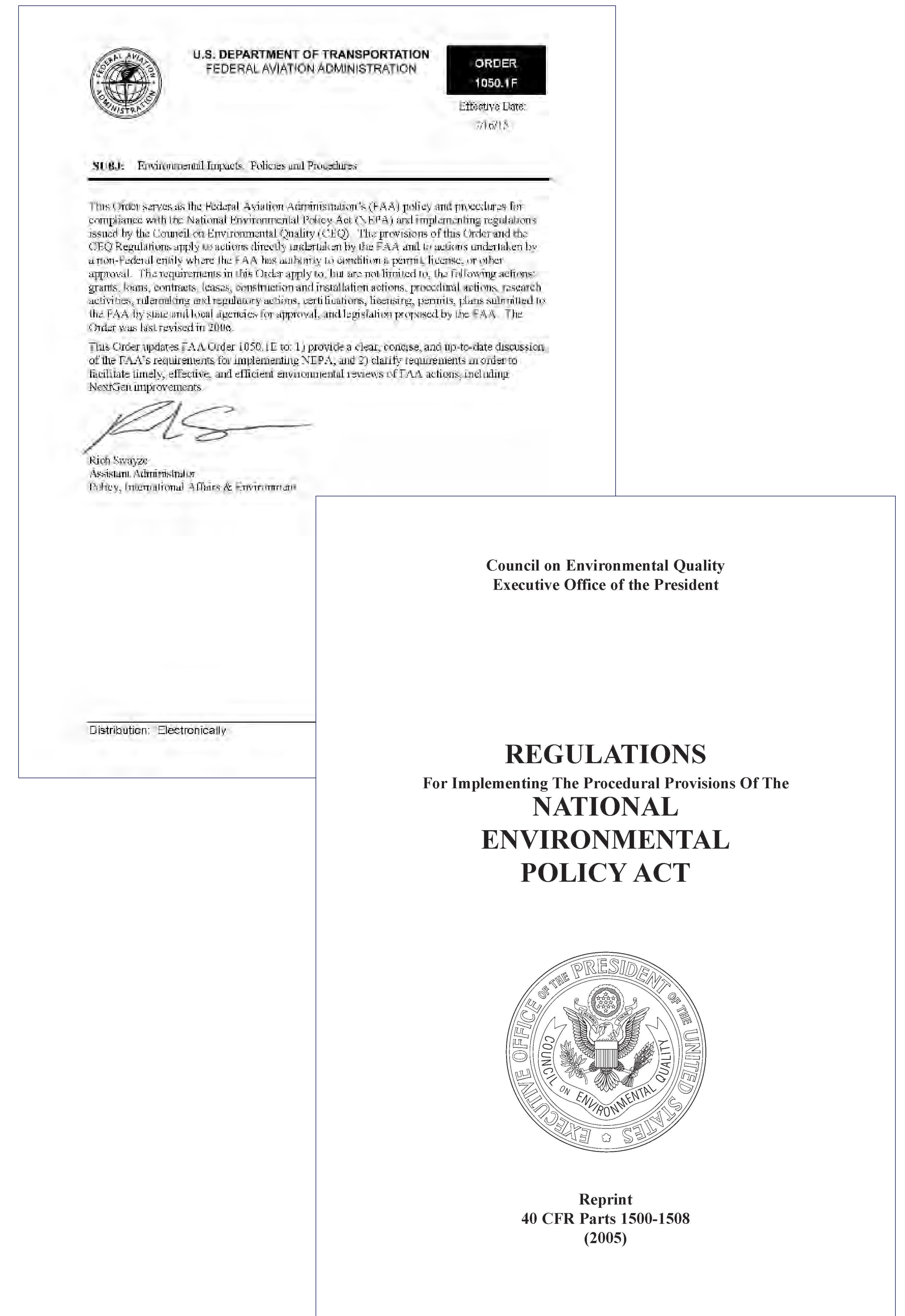
- » Provides an opportunity for involvement in the Environmental Assessment (EA) process
 - Federal, state, and local agencies and the public can provide information regarding environmental conditions and concerns
- » Information received during informational briefings helps identify areas of concern
 - Issues that arise during the public informational briefing process can help identify areas deserving emphasis or de-emphasis in the EA



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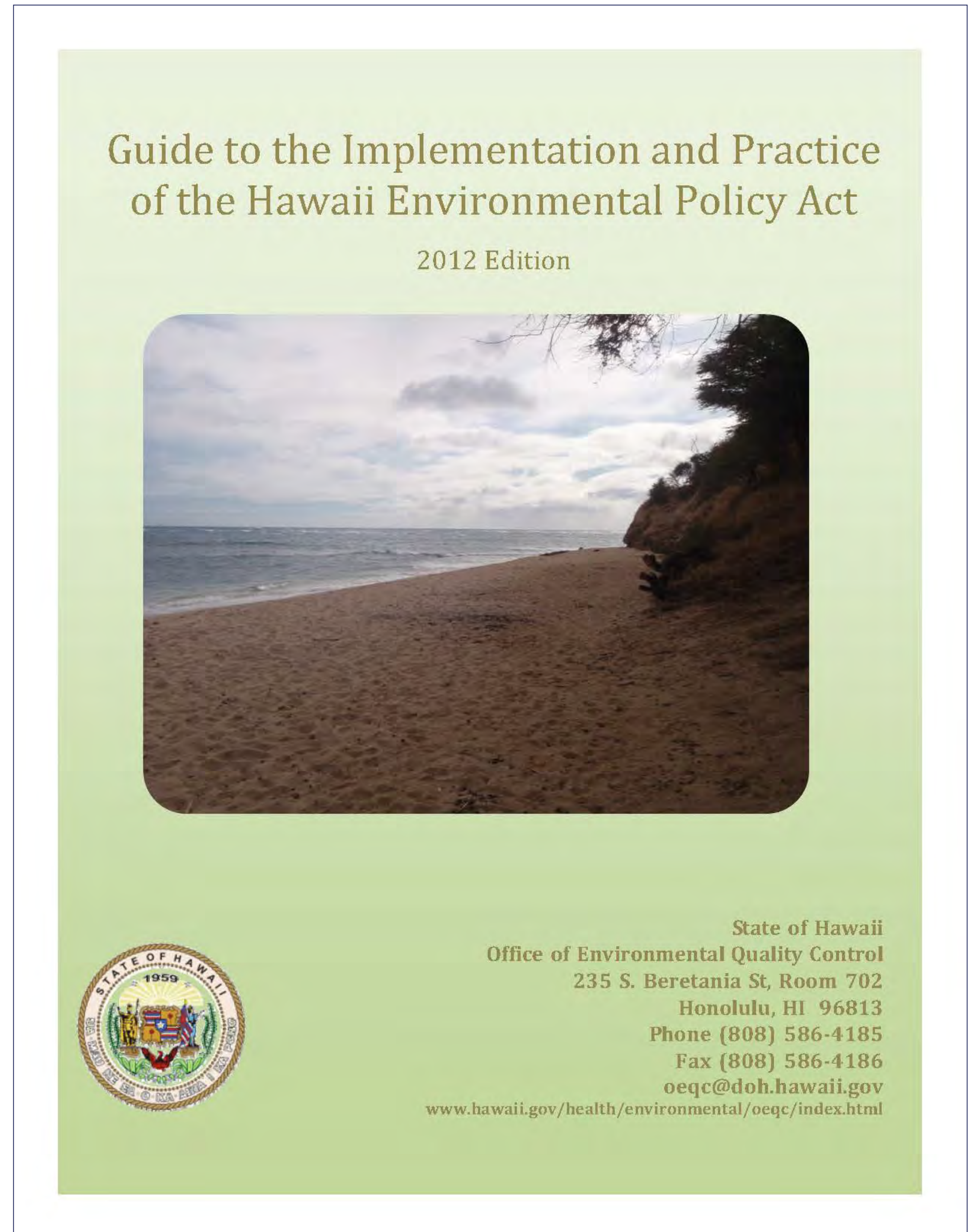
What is NEPA?

- » NEPA is the National Environmental Policy Act of 1969.
- » The Federal Aviation Administration (FAA) is the lead agency for aviation-related NEPA documentation.
- » All NEPA documentation follows guidance provided in Council on Environmental Quality (CEQ) Regulations and FAA Orders.

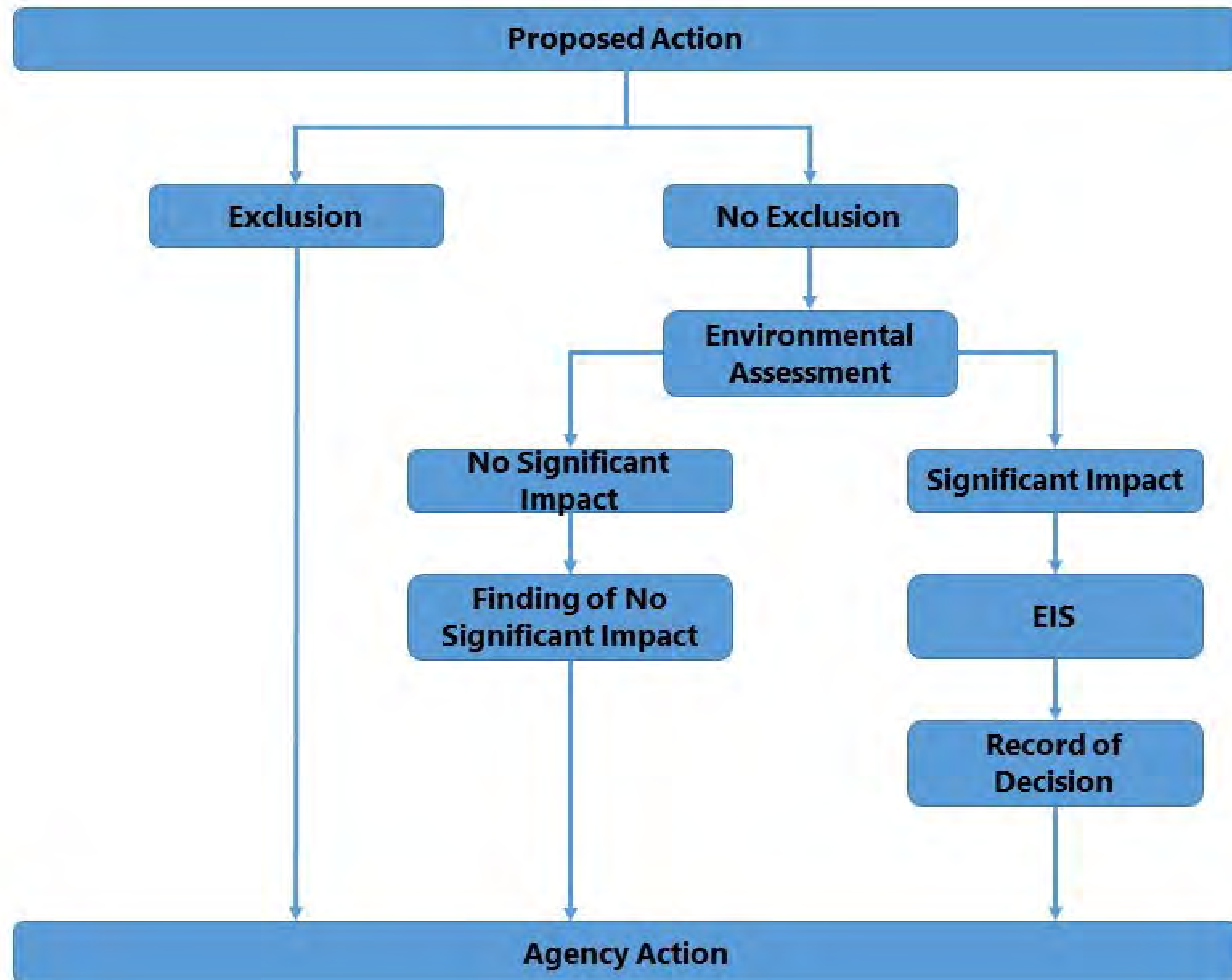


What is HEPA?

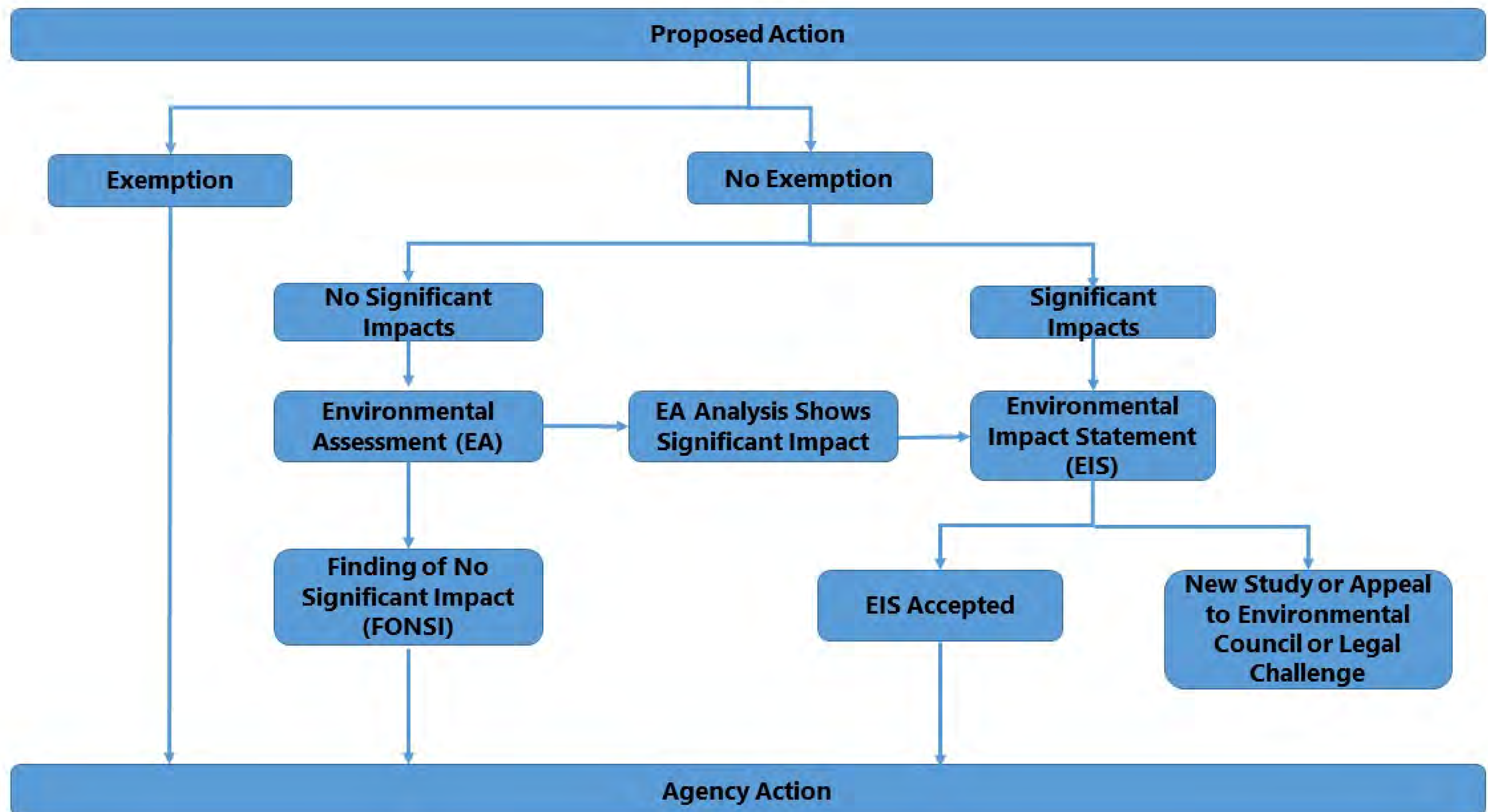
- » HEPA is the Hawaii Environmental Policy Act of 1974.
- » HEPA is patterned after NEPA.
- » The Hawaii Department of Transportation, Airports Division (HDOT-A) is the proposing and determining agency for airport development actions.
- » All HEPA documentation follows guidance provided in Hawaii Revised Statutes (HRS) Chapter 343, and Hawaii Administrative Rule (HAR) Title 11, Chapter 200.1.



The NEPA Process



The HEPA Process



Purpose and Need

- » The Purpose and Need describes the problem and proposed solution
- » Purpose
 - Reconstruct the Runway 2-20 pavement and subbase to accommodate existing aircraft using the Airport
- » Need
 - Runway 2-20 pavement surpassed its economic useful life
 - *2016 analysis indicated that the runway has less than five years remaining life*
 - Runway 2-20 thickness and material
 - *Runway is asphalt and 18-inches thick, of which, 11-inches has uniformly delaminated*
 - *Runway sits on top of 6-inches of aggregate base layer, which is inferior material to adequately support aircraft operating at the Airport*
 - Foreign object debris (FOD)
 - *Pavement distresses and deterioration have created the potential for the creation and presence of FOD*



Alternatives

- » Alternative 1: No Action Alternative
- » Alternative 2: Airport Closure Alternatives
 - Alternative 2A: Temporary Closure of Airport Alternative
 - Alternative 2B: Permanent Closure of Airport Alternative
- » Alternative 3: Temporarily Preclude Flights to U.S. Mainland Alternative
- » Alternative 4: Reconstruct Runway 2-20 in Two Phases Alternative
- » Alternative 5: Extension of Runway 5-23 Alternatives
 - Alternative 5A: 1,260-Foot Extension of Runway 5 and 750-Foot Extension of Runway 23 Alternative
 - Alternative 5B: 200-Foot Extension of Runway 5 and 1,810-Foot Extension of Runway 23 Alternative
 - Alternative 5C: 1,260-Foot Extension of Runway 5, 750-Foot Extension of Runway 23, and Temporary 2,605-Foot Extension of Runway 2 Alternative
 - Alternative 5D: 1,260-Foot Extension of Runway 5, 750-Foot Extension of Runway 23, and Permanent 2,605-Foot Extension of Runway 2 Alternative



Alternatives (continued)

» Alternative 6: Replacement Runway Alternatives

- Alternative 6A: Replacement Runway 400 Feet East of Existing Runway 2-20 Alternative
- Alternative 6B: Replacement Runway 600 Feet East of Existing Runway 2-20 Alternative
- Alternative 6C: Replacement Runway 1,000 Feet East of Existing Runway 2-20 Alternative
- Alternative 6D: Replacement Runway 2,500 Feet East of Existing Runway 2-20 Alternative

» Alternative 7: Temporary Runway Alternatives

- Alternative 7A: Temporary Runway on Taxiway A Alternative
- Alternative 7B: Temporary Runway on East Apron Taxiway Alternative



Proposed Action – Phase 1



Sources: HALO/HDOT-A, 2019; Esri, 2019; RS&H, 2019

Phase 1-A

- Temporary Relocated Fixed Base Operators (FBOs) and Associated Auto Parking (1-1)
- Temporary Relocated Large GA Jet Aircraft Parking (1-2)
- Temporary Relocated Small GA Aircraft Parking (1-3)
- Temporary Relocated Touchdown and Lift off (TLOF) Area (1-4)
- Temporary Relocated Helicopter Parking (1-5)
- Relocated Power Lines (1-6)
- Remove Existing Power Line (1-7)
- Underground Airside Drainage Ditch (1-8)
- Inlet to Underground Airside Drainage Ditch (1-9)
- Temporarily Convert Runway 5-23 to a Short Runway and an Interim Taxiway (1-10)

Phase 1-B

- Temporary Abandonment of Large GA Jet Aircraft Parking (1-11)
- Temporary Abandonment of Small GA Aircraft Parking (1-12)
- Temporary Abandonment of FBOs (1-13)
- Relocate Existing Remote Transmitter Receiver (RTR) (1-14)
- Relocated RTR (1-15)
- Temporary Abandonment of TLOF Area (1-16)
- Temporary Abandonment of Helicopter Parking (1-17)
- Decommission Fuel Tanks (1-18)
- Excavation Area (1-19)
- Excavated Fill Placement (1-20)
- Kalialinui Gultch Culvert (1-21)
- Temporary Closure of Haleakala Highway (1-22)
- Permanent Relocated Fencing (1-23)
- Permanent Removal of Existing Fencing (1-24)
- Temporary Relocated Fencing (1-25)
- Temporary Removal of Existing Fencing (1-26)
- Temporary Gate (1-27)



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Proposed Action – Phase 1

» Phase 1 of the Proposed Action would include 27 project components.

- Project 1-1: Temporary Relocated Fixed Base Operators (FBOs) and Associated Auto Parking
- Project 1-2: Temporary Relocated Large General Aviation Jet Aircraft Parking
- Project 1-3: Temporary Relocated Small General Aviation Aircraft Parking
- Project 1-4: Temporary Relocated Touchdown and Lift-Off (TLOF) Area
- Project 1-5: Temporary Relocated Helicopter Parking
- Project 1-6: Relocated Power Lines
- Project 1-7: Removal of Existing Power Line
- Project 1-8: Underground Airside Drainage Ditch
- Project 1-9: Inlet to Underground Airside Drainage Ditch
- Project 1-10: Temporarily Convert Runway 5-23 to a Short Runway and an Interim Taxiway
- Project 1-11: Temporary Relocated Large General Aviation Aircraft Parking
- Project 1-12: Temporary Relocated Small General Aviation Aircraft Parking



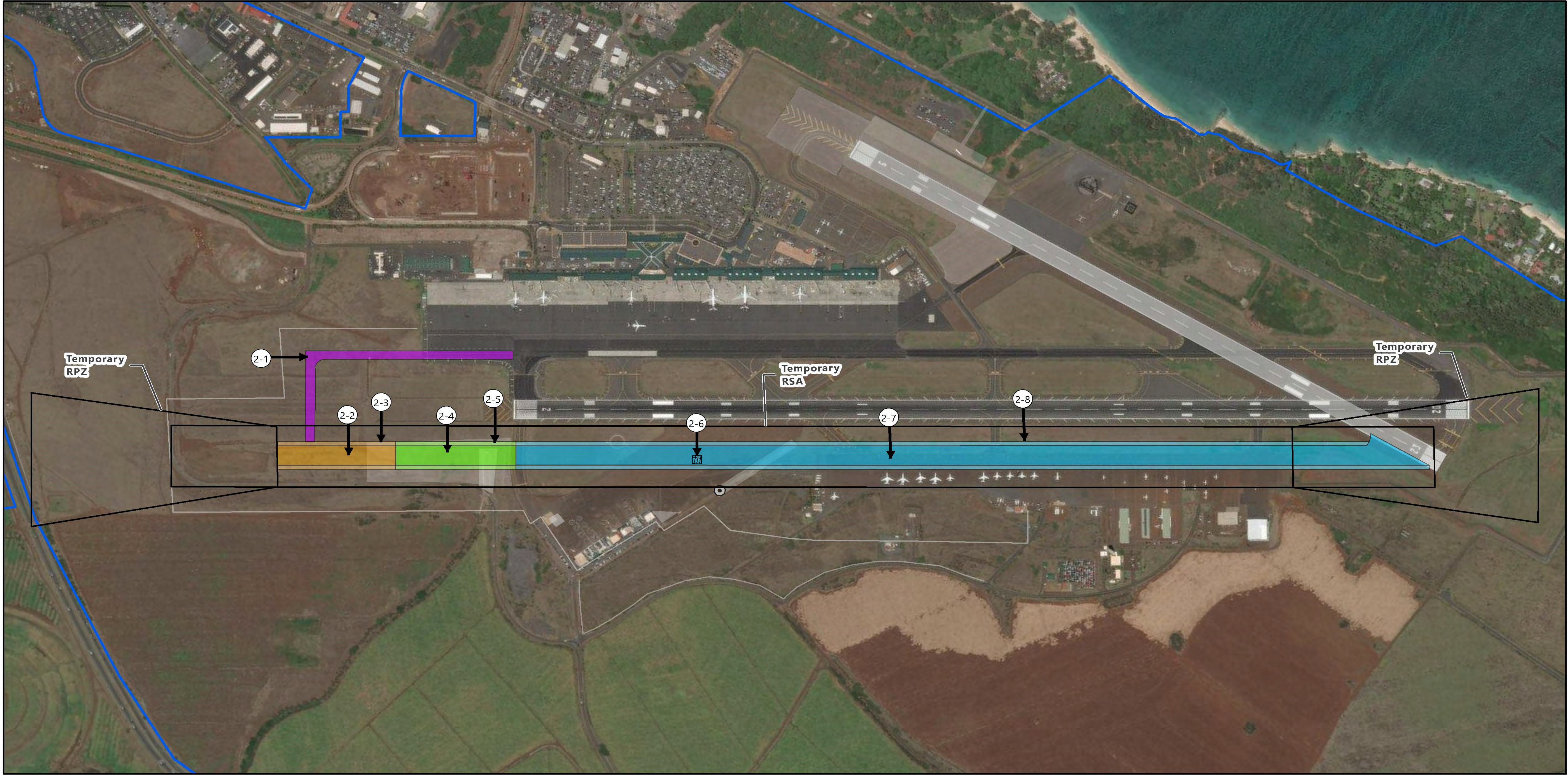
Proposed Action – Phase 1 (continued)

» Phase 1 of the Proposed Action would include 27 project components.

- Project 1-13: Temporary Relocated FBOs
- Project 1-14: Relocation of Existing Remote Transmitter Receiver (RTR)
- Project 1-15: Relocated RTR
- Project 1-16: Temporary Relocated TLOF Area
- Project 1-17: Temporary Relocated Helicopter Parking
- Project 1-18: Decommission Fuel Tanks
- Project 1-19: Excavation Area
- Project 1-20: Excavated Fill Placement
- Project 1-21: Kalialinui Gulch Culvert
- Project 1-22: Temporary Haleakala Highway Closure
- Project 1-23: Permanent Relocated Fencing
- Project 1-24: Permanent Removal of Existing Fencing
- Project 1-25: Temporary Relocated Fencing
- Project 1-26: Temporary Removal of Existing Fencing
- Project 1-27: Temporary Gate



Proposed Action – Phase 2



Sources: HALO/HDOT-A, 2019; Esri, 2019; RS&H, 2019

Legend

- | | | | |
|---|---|---|----------------------------|
| Temporary Taxiway Construction Phase 2a (2-1) | Temporary Runway Construction Phase 2b (2-4) | Temporary Runway Construction Phase 2c (2-7) | Phase 1 Project Components |
| Temporary Runway Construction Phase 2a (2-2) | Temporary Runway Shoulder Construction Phase 2b (2-5) | Temporary Runway Shoulder Construction Phase 2c (2-8) | |
| Temporary Runway Shoulder Construction Phase 2a (2-3) | Temporary Decommission of Glideslope (2-6) | Temporary Decommission of NAVAIDs (2-9) | |



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Proposed Action – Phase 2

» Phase 2 of the Proposed Action would include 9 project components.

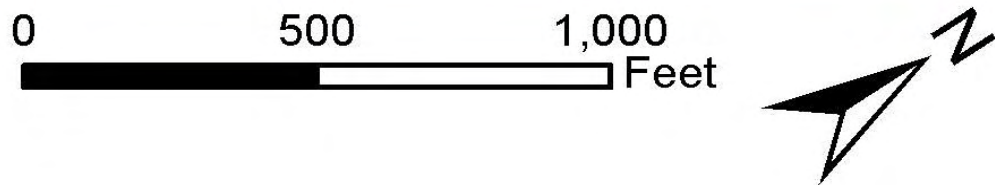
- Project 2-1: Temporary Taxiway Construction Phase 2a
- Project 2-2: Temporary Runway Construction Phase 2a
- Project 2-3: Temporary Runway Shoulder Construction Phase 2a
- Project 2-4: Temporary Runway Construction Phase 2b
- Project 2-5: Temporary Runway Shoulder Construction Phase 2b
- Project 2-6: Temporary Decommission of Glideslope
- Project 2-7: Temporary Runway Construction Phase 2c
- Project 2-8: Temporary Runway Shoulder Construction Phase 2c
- Project 2-9: Temporary Decommission of Navigation Aids (NAVAIDs)





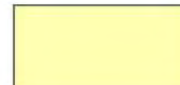



Proposed Action – Phase 3



Sources: HALO/HDOT-A, 2019; Esri, 2019; RS&H, 2019



Legend

- | | |
|---|--|
|  Runway 02/20 Reconstruction (3-1) |  Phase 1 & 2 Project Components |
|  Recommission Runway 02/20 (3-2) |  Phase 1 & 2 Project Components |
|  Recommission Glideslope (3-3) |  Phase 1 & 2 Project Components |



Proposed Action – Phase 3

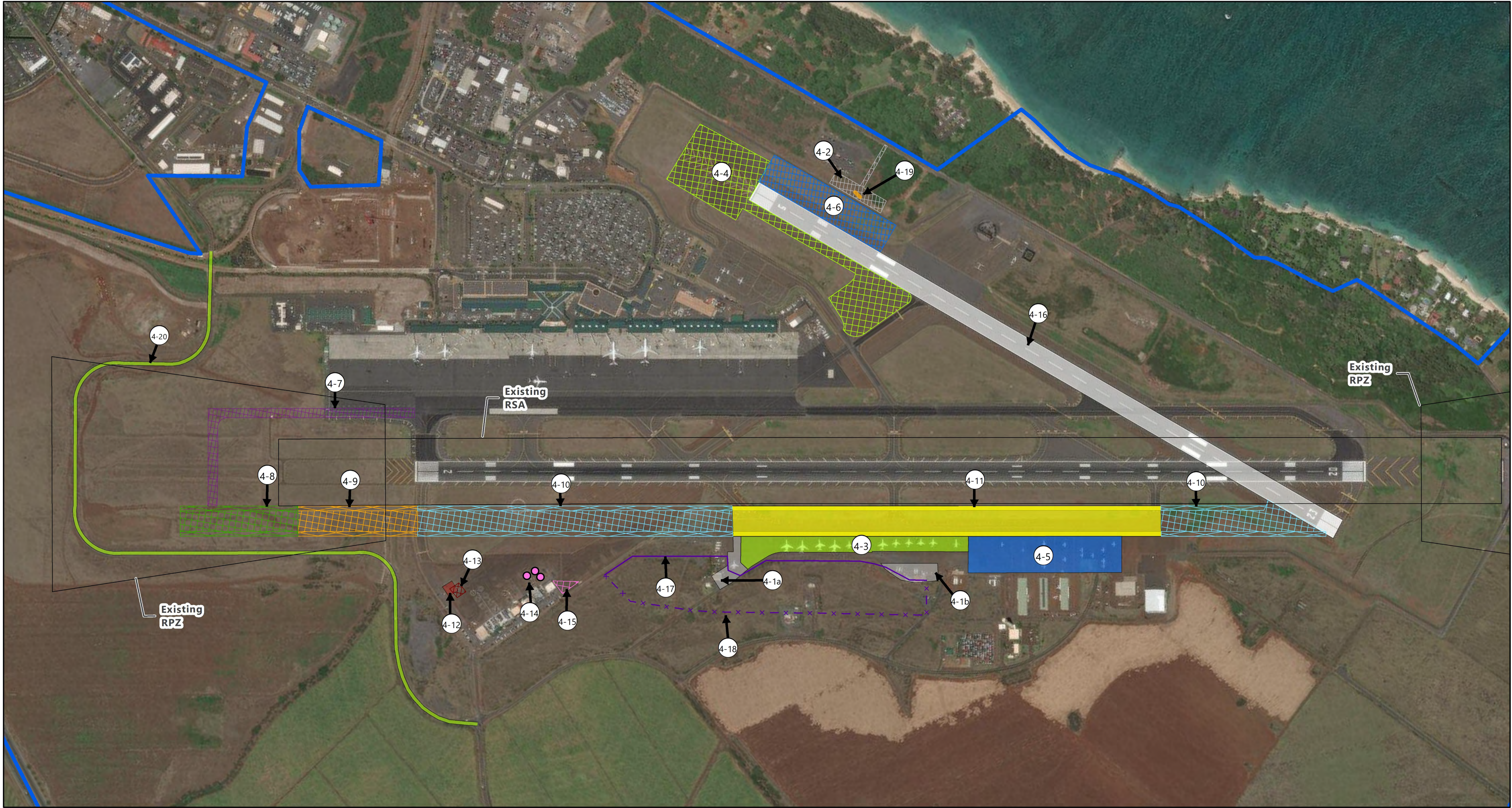
» Phase 3 of the Proposed Action would include 4 project components.

- Project 3-1: Runway 2-20 Reconstruction
- Project 3-2: Recommission Runway 2-20
- Project 3-3: Recommission Glideslope
- Project 3-4: Recommission NAVAIDs

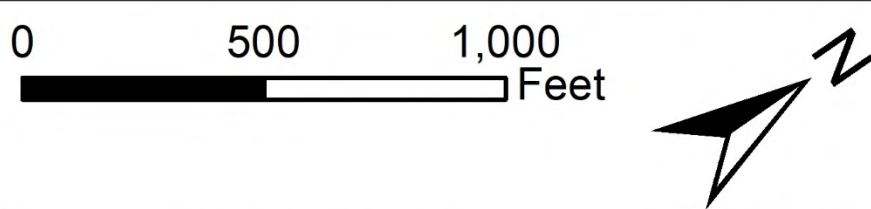


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Proposed Action – Phase 4



Sources: HALO/HDOT-A, 2019; Esri, 2019; RS&H, 2019



Phase 4

- | | | | |
|--|---|---|--|
| Restore Original Location of FBOs (4-1) | Remove Temporary Relocated Small GA Aircraft Parking (4-6) | Convert Temporary Runway and Shoulder to Permanent Taxiway (4-11) | Convert Runway 5-23 to Original Runway Length (4-16) |
| Remove Temporary FBOs and Associated Auto Parking (4-2) | Abandon in Place Temporary Taxiway Phase 2a (4-7) | Restore Original TLOF (4-12) | Restore Fencing (4-17) |
| Restore Original Large GA Jet Aircraft Parking (4-3) | Abandon in Place Temporary Runway and Shoulder Phase 2a (4-8) | Remove Temporary Relocated TLOF (4-13) | Remove Temporary Fencing (4-18) |
| Remove Temporary Relocated Large GA Jet Aircraft Parking (4-4) | Abandon in Place Temporary Runway and Shoulder Phase 2b (4-9) | Restore Original Helicopter Parking (4-14) | Remove Temporary Gate (4-19) |
| Restore Original Small GA Aircraft Parking (4-5) | Abandon in Place Portion of Temporary Runway and Shoulder Phase 2c (4-10) | Remove Temporary Relocated Helicopter Parking (4-15) | Reopening of Haleakala Highway (4-20) |

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Proposed Action – Phase 4

» Phase 4 of the Proposed Action would include 20 project components.

- Project 4-1: Restore Original Location of FBOs
- Project 4-2: Removal of Temporary FBOs and Associated Auto Parking
- Project 4-3: Restore Original Large General Aviation Jet Aircraft Parking
- Project 4-4: Remove Temporary Relocated Large General Aviation Jet Aircraft Parking
- Project 4-5: Restore Original Small General Aviation Aircraft Parking
- Project 4-6: Remove Temporary Relocated Small General Aviation Aircraft Parking
- Project 4-7: Abandon in Place Temporary Taxiway Phase 2a
- Project 4-8: Abandon in Place Temporary Runway and Shoulder Phase 2a
- Project 4-9: Abandon in Place Temporary Runway and Shoulder Phase 2b
- Project 4-10: Abandon in Place Portion of Temporary Runway and Shoulder Phase 2c
- Project 4-11: Convert Temporary Runway and Shoulder to Permanent Taxiway
- Project 4-12: Restore Original TLOF
- Project 4-13: Remove Temporary Relocated TLOF



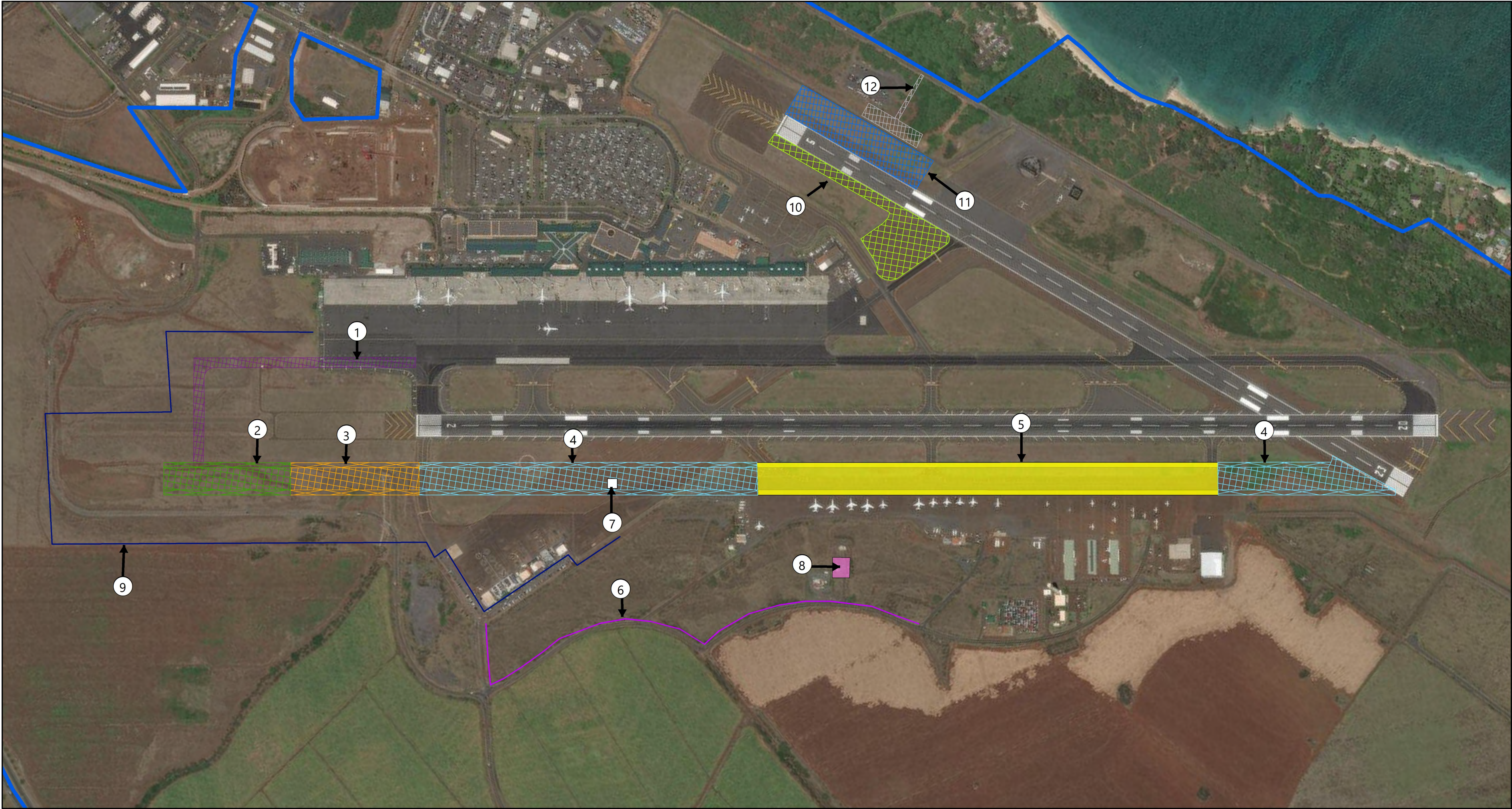
Proposed Action – Phase 4 (continued)

» Phase 4 of the Proposed Action would include 20 project components.

- Project 4-14: Restore Original Helicopter Parking
- Project 4-15: Remove Temporary Relocated Helicopter Parking
- Project 4-16: Convert Runway 5-23 to Original Runway Length
- Project 4-17: Restore Fencing
- Project 4-18: Remove Temporary Fencing
- Project 4-19: Remove Temporary Gate
- Project 4-20: Reopen Haleakala Highway









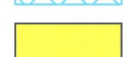





Proposed Action – Project Components to Remain

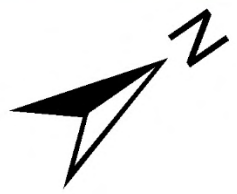


Sources: HALO/HDOT-A, 2019; Esri, 2019; RS&H, 2019

Permanent Project Components

- | | |
|--|---|
|  Temporary Taxiway and Shoulder Phase 2a Abandoned in Place (1) |  Glideslope (7) |
|  Temporary Runway and Shoulder Phase 2b Abandoned in Place (2) |  Relocated RTR (8) |
|  Temporary Runway and Shoulder Phase 2b Abandoned in Place (3) |  Permanent Relocated Fencing (9) |
|  Portion of Temporary Runway and Shoulder Phase 2c Abandoned in Place (4) |  Temporary Relocated Large GA Aircraft Parking Abandoned in Place (10) |
|  Portion of Temporary Runway and Shoulder Phase 2c Converted to Permanent Taxiway (5) |  Temporary Relocated Small GA Aircraft Parking Abandoned in Place (11) |
|  Relocated Power Lines (6) |  Temporary Auto Parking and Temporary Relocated FBOs Abandoned in Place (12) |

0 500 1,000 Feet



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10/17/2019

NEPA/HEPA Resource Categories

FAA Order 1050.1F Environmental Resources	HEPA Environmental Factors
Air Quality	Air
Biological Resources (includes fish, wildlife, and plants)	Flora and Fauna
Climate	Air
Coastal Resources	Coastal Areas
Department of Transportation Act, Section 4(f)	
Farmlands	
Hazardous Materials, Solid Waste, and Pollution Prevention	
Historical, Architectural, Archaeological, and Cultural Resources	Cultural Conditions/ Historic or Aesthetic Significance/ Historic Areas
Land Use	Conservation Zoned Sites or District
Natural Resources and Energy Supply	
Noise and Noise-Compatible Land Use	Ambient Noise
Socioeconomics, Environmental Justice, Children's Environmental Health and Safety Risks	Social Conditions
Visual Effects (includes Light Emissions and Visual Resources / Visual Character)	Aesthetic Significance
Water Resources (including Wetlands/Floodplains/Surface Waters/Groundwater/Wild and Scenic Rivers)	Water



Next Steps

- » Determine study areas
- » Describe existing environmental conditions (affected environment)
- » Analyze potential environmental effects (environmental consequences)
 - Determine any mitigation, if necessary
 - Assess cumulative environmental effects
- » Publish Draft EA (scheduled for Spring 2020)
 - Reviewed by public and federal, state, and local agencies
 - HDOT-A will not issue an anticipated finding, due to joint HEPA-NEPA
 - Address comments received
- » Publish Final EA
 - HDOT-A issues finding on HEPA and FAA issues finding on NEPA



How to Provide Comments

- » Fill out comment card this evening
- » Send written comments via U.S. mail (must be postmarked by Monday, December 23, 2019) to:

Herman Tuiolosega
HDOT-A
400 Rodgers Boulevard, 7th Floor
Honolulu HI, 96819-1880

- » Send written comments via email to herman.tuiolosega@hawaii.gov by Monday, December 23, 2019.



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