

Cape Hatteras National Seashore Bodie Island District Alternative Transportation Study: Draft Potential Strategies

The following list represents preliminary strategies being considered as part of the analysis for the Bodie Island Alternative Transportation study . This list is not final nor does it imply action by Cape Hatteras National Seashore, or any other entity, and is provided for planning and informational purposes only. The strategies will be evaluated on a number of characteristics in the final report, with a focus on improving visitor access and circulation; enhancing health, safety and security; protecting and minimizing impacts to resources; and achieving efficient management, operations and maintenance of the park transportation network.

The list is divided into policy and planning strategies and infrastructure strategies, which are further organized by mode or topic area. For each strategy, the list includes proposed ownership in terms of agencies that would need to take primary action, identification of the relevant location or scale at which the strategy would take place, categorization of each strategy as a current or future need, and indication of the NPS transportation goal(s) that the strategy addresses.

Potential strategy (items in red bold are safety-related)	Ownership	Location	Current (C) or Future (F) Need	NPS Transportation Goals						
				To conserve natural, historical, and cultural resources	To reduce congestion and pollution	To improve visitor mobility and accessibility	To enhance the visitor experience	To ensure access to all, including persons with disabilities	To achieve efficient management, operations, and maintenance	To coordinate with NPS and other planning entities and stakeholders as appropriate
Policy and planning strategies										
Complete and refine parking demand assessment for Bodie Island Lighthouse	NPS	Bodie Island Lighthouse	C			x	x		x	
Collect and track safety data (incident reporting system) for all modes	NPS, NCDOT	Bodie Island District / Cape Hatteras NS	C			x	x		x	
Conduct a marketing campaign to promote alternative transportation on the Outer Banks online and in hard copy, to include maps that detail cycling and kayaking routes to Bodie Island and connections to regional systems, carpooling/ridesharing services, and information on modal choices for getting around.	NPS/Multiple	Bodie Island District (Cape Hatteras NS / Regional)	C	x	x	x	x			x
Collect data on pedestrian and bicycle activity to measure visitation by these modes	NPS	Bodie Island District / Cape Hatteras NS	C						x	
Offer and/or encourage interpretive tours of Bodie Island District (or specific sections) by bicycle, boat, or foot	NPS	Bodie Island District	F			x	x			
Implement a reservation system for Lighthouse climbing at Bodie Island Lighthouse	NPS	Bodie Island Lighthouse	F		x	x	x		x	

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Participate in Dare County Comprehensive Transportation Plan (to start in 2011 or 2012) and promote alternative transportation through support of infrastructure investments and management and land use policies	NPS / multiple	Regional	F		x	x	x			x
Implement policy-level changes to encourage alternative transportation (e.g., pricing/fees, reduction /limits in parking)	NPS	Bodie Island District / Cape Hatteras NS	F		x	x	x		x	
Collect information on parking lot utilization at major parking lots (e.g., Bodie Island Lighthouse, Coquina Beach, Oregon Inlet) to inform future efforts	NPS	Bodie Island District / Cape Hatteras NS	F			x	x		x	
Develop a comprehensive signage plan (roadway, trail, and interpretive that incorporates wayfinding best practices for all modes - water, pedestrian, bicycle, and auto)	NPS, Outer Banks Scenic Byway Committee, NCDOT, Dare County, local communities	Bodie Island District / Cape Hatteras NS	F			x	x			x
Conduct a visitor survey with transportation questions that determine, for example, mode used, origin and destination, willingness to use alternative transportation (could be incorporated into General Management Plan or other efforts)	NPS	Bodie Island District / Cape Hatteras NS	F				x		x	
Develop a management system (including reservations and scheduling) for management of motorcoach and school bus visitation to Bodie Island Lighthouse	NPS	Bodie Island Lighthouse	F		x		x		x	
Form a transit/transportation committee with local stakeholders	NPS/Multiple	Bodie Island District (Cape Hatteras NS / Regional)	C	x	x	x	x	x	x	x

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Infrastructure strategies										
Roadway										
Widen Lighthouse Bay Drive	NPS	Bodie Island Lighthouse	C			x	x		x	
Change outgoing speed limit from 25 mph to 15 mph to match ingoing speed limit on Lighthouse Bay Drive	NPS	Lighthouse Bay Drive	C			x	x			x
Reduce speed limit along NC 12 especially where there is pedestrian activity - e.g., lower speed during summer at Coquina Beach/Bodie Island Lighthouse similar to lowered speed at Oregon Inlet Fishing Center	NCDOT	Bodie Island District	C			x	x			
Add share the road/bicycle signs along planned expanded shoulders on NC12	NPS / NCDOT	Bodie Island District (NC 12)	C			x	x			
Add advance information and cautionary signs indicating merging traffic for roadside pull-offs for hunting trails and proposed viewing pull-offs	NPS / NCDOT	Bodie Island District (NC 12)	C				x			
Construct southbound right-turn lane on NC12 for Lighthouse Bay Drive	NCDOT	Intersection of NC12 and Lighthouse Bay Drive	C		x		x			
Construct northbound right-turn lane on NC12 for Coquina Beach	NCDOT	Intersection of NC12 and Lighthouse Bay Drive	C		x		x			
Parking										
Add north- and south-bound viewing pull-off area(s) of Bodie Island Lighthouse (south-bound could provide parking for Dike Trail)	NPS / NCDOT	Bodie Island District (NC 12)	C		x		x			

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Designate seasonal satellite parking for transit service (at publicly-owned parking lots such as school parking and/or other NPS or town properties)	Multiple	Regional	F	x	x	x	x	x		x
Expand capacity of Bodie Island Lighthouse parking to accommodate identified additional demand and motorcoaches										
Reconfigure and/or relocate Bodie Island Lighthouse parking (to designate parking for buses and over-sized vehicles, alter capacity, and improve historic/view corridors)	NPS	Bodie Island Lighthouse	F	x			x			
Develop vehicle parking for bicycle and pedestrian users at base of Bonner Bridge if new and/or former bridge includes bicycle and pedestrian facilities (Environmental Assessment indicates a bike lane will be included)	NPS/NCDOT	Bonner Bridge	F			x	x			
Addition of an entrance/exit to Coquina Beach parking in the north	NPS	Coquina Beach	C		x	x	x		x	
Bicycle										
Extend Nags Head multi-use trail from termination in South Nags Head to NC12 and/or add shoulder or bike lane for bicycles	NPS	South Nags Head	C		x	x	x			x
Connect NC 12 expanded shoulders to Nags Head multi-use trail at Whalebone Junction through marked bicycle lane	Nags Head	Whalebone Junction	C		x	x	x			
Provide bicycle racks at all Bodie Island District sites (including additional capacity at the Lighthouse)	NPS	Bodie Island District	C		x	x	x		x	
Designate and/or add a bicycle lane along NC 12	NPS	Bodie Island District	F		x	x	x			x

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Add off-road multi-use path along NC 12	NPS	Bodie Island District	F		x	x	x			x
Create a bicycle amenity station (or several) with air/pump station, lockers, and information on distances and destinations	NPS/private	Whalebone Junction and/or Coast Guard buildings	F		x	x	x			
Widen multi-use trail along SR 1243 and/or provide an on-road designated bicycle lane separate from the off-road facility	Nags Head	South Nags Head	F		x	x	x			x
Pedestrian										
Request that NCDOT install crosswalks and pedestrian crossing warning signs at Intersection of NC12 and Lighthouse Bay Drive	NCDOT	Intersection of NC12 and Lighthouse Bay Drive	F		x	x	x			
Request that NCDOT install crosswalks and pedestrian crossing warning signs between Oregon Inlet Fishing Center and campground	NCDOT	Oregon Inlet Fishing Center and campground	C		x	x	x			
Request that NCDOT add a crosswalk and pedestrian request/signals at Whalebone Junction (this will be particularly relevant if Whalebone Junction Information Station is further developed)	NCDOT	Whalebone Junction	F		x	x	x			
Extend the Dike Trail to connect the existing trail to the intersection of Lighthouse Bay Drive with NC 12 to access the Coast Guard buildings and Coquina Beach		Bodie Island Lighthouse	C		x	x	x			
Marine										
Develop Soundside vehicle parking and dock, boat rack, and other facilities for nonmotorized access at Bodie Island Lighthouse (e.g., Off Island Gun Club dock site and Bone Yard site)	NPS	Bodie Island Lighthouse	C		x	x	x			x

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Provide kayak/canoe concessions at Bodie Island Lighthouse Soundside access points and/or Oregon Inlet Fishing Center to facilitate water transportation between sites	NPS/private	Bodie Island Lighthouse and Oregon Inlet Fishing Center	C		x	x	x			
Promote/encourage water taxi/ferry services from Bodie Island to other parts of the Outer Banks	NPS	Regional	F	x	x	x	x	x	x	x
Transit (all seasonal / additional service characteristics to be developed)										
Pursue partnership to provide shuttle service between Coquina Beach and Bodie Island Lighthouse	NPS/other	Bodie Island District	F		x	x	x	x	x	
Pursue partnership to provide shuttle service between Coquina Beach, Bodie Island Lighthouse, Oregon Inlet Campground, and Oregon Inlet Fishing Center	NPS/other	Bodie Island District	F		x	x	x	x	x	
Promote/encourage an interpretive tour and shuttle between Fort Raleigh, Wright Brothers, and Bodie Island Lighthouse	NPS/other	Regional	F		x	x	x	x	x	
Pursue partnership to provide shuttle service between satellite parking in Nags Head and Bodie Island District sites	NPS/other	Regional	F		x	x	x	x	x	
Promote/encourage shuttle service between Fort Raleigh, downtown Manteo, Wright Brothers, downtown Kill Devil Hills, downtown Nags Head (Jennette's Pier), and Bodie Island Lighthouse	NPS/other	Regional	F		x	x	x	x	x	x

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Wayfinding and Traveler Information										
Add signage for bicycle/pedestrian users that contains information on distance and direction of destinations at key locations (e.g., at gate to gravel road at Bodie Island Lighthouse to indicate Dike Trail)	NPS	Various	C		x	x	x		x	
Provide real-time information on ORV / parking lots capacity / weather/other conditions provided online, by phone, by radio, and/or variable message sign	NPS	Various	C		x	x	x		x	
Provide static information on ORV / parking lots / other conditions online, by phone, by radio, and/or variable message sign	NPS	Various	C		x	x	x		x	
Provide traveler information through state-owned variable message sign	NCDOT	Whalebone Junction	C		x	x	x		x	