Part 1 Appraisal Summary Tables

Proposal Details			
Name and address of authority proposal:	· · ·		60, michael.craigie@shetland.gov.uk
		Shetland Islands Council, Development Service, Transport Planning Service, 6 North Ness, Lerwick, Shetland, ZE1 0LZ	
Proposal Name:	Option CO2: Replace the MV <i>New Advance</i> with a Ro-Ro vessel.	Name of Planner:	Stephen Canning, Peter Brett Associates
Proposal Description:	This vessel would be a catamaran of approximately 20-25m length and 6m beam. This vessel would		<i>Capital costs/grant</i> £18.1m.
	be capable of carrying		Current revenue support
	approximately 50 passengers and 5 PCUs. It would operate at around 14 knots, although would have a design speed of around 18 knots.		Revenue costs not available as service contracted out
	A new harbour would need to be built at Foula which would include a new breakwater, new piled jetty, provision of a new jetty / Ro-Ro ramp, sheltered overnight berth and dredging.	Estimated Total Public Sector Funding Requirement:	<i>Annual revenue support</i> Revenue costs not available as service contracted
	The Ro-Ro ferry could either travel to West Burrafirth or, if it continued to go to Walls, harbour works would be needed. For the purpose of this study, it is assumed that Walls is the continued mainland terminus of the service.		out
Funding Sought From: (if applicable)	Transport Scotland		Present Value of Cost to Govt. Costs in this study are all reported in 2016 prices only. The costs would reflect those set out above.

Background Information			
Geographic Context:	The island of Foula lies 20 miles to the west of Walls on the Shetland mainland. The island, which is still lairded, is about 2.5 miles long by 3.5 miles wide.		
Geographic Context.	Transport connections are provided by the workboat MV New Advance and an air service from Tingwall.		
Social Context:	The population of Foula is small but has been relatively resilient over the years, despite limited on-island opportunities The population was recorded as 38 in the 2011 Census.		
	The shortage of housing stock in Foula is a key constraint on population sustainability and growth.		
	Foula retains its primary school and recently attracted a teacher to go and live on the island. The school roll has increased over the last two years.		
	Health provision on Foula is limited, although this is perhaps to be expected given the remoteness of the island. The main need of the island appears to be enhanced emergency cover.		
	The lack of on-island services is a challenge for Foula residents, although this is not a new issue and has not had a noticeable impact on the population level (although it may be a deterrent to in-migration).		
	Employment opportunities on Foula are limited, with employment concentrated in public sector posts, small scale crofting and seasonal tourism.		
Economic Context:	Given the geography, population and industrial base of Foula, there is unlikely to be any significant developments on the island over the period of the plan. The key for Foula is likely to be maintaining the population base, lowering the average age of residents and retaining key services.		
Planning Objectives			
Objective:	Performance against planning objective:		
essential personal, vehicular	Performance against Transport Planning Objective: Moderate Positive prvices should regular and The provision of a Ro-Ro vessel for Foula would make a moderate positive contribution to this objective. The and freight current MV New Advance can carry one small car, which has to be craned on. The proposed Ro-Ro vesse and Shetland therefore offers a significant uplift in capacity, with the significant added benefit that vehicles could drive on and off the ferry.		

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Financial: Capital cost - £18.1m.	Operational:	The harbour at Foula would require frequent dredging.	
	Financial:	Capital cost - £18.1m.	

Public:	Public: There appeared to be very little appetite in Foula for a major RoRo conversion.		
STAG Criteria			
Criterion	Assessment Summary	Supporting Information	
Environment:	**	 The replacement of the MV <i>New Advance</i> with a more modern vessel would give rise to a potential reduction in emissions, although this could to some extent be offset by the increase in operating speed. Nonetheless, medium-speed catamarans tend to be more fuel efficient vessels than monchulls and it is therefore likely that there will be an overall reduction in emissions. The following impacts in relation the harbour works at Foula & Walls have been identified in terms of the environmental sub-criteria: Noise & vibration: Short term impacts at closest properties and on wildlife during construction. Local air quality: No significant effects predicted. Water quality, drainage & flood defence: Some short term impacts on marine water quality during construction and from dredging activities (if required) but unlikely to be significant in longer term. Geological features: Some loss of marine sediment if dredging is required. Biodiversity & habitats: Potential for disturbance of qualifying features of SPA during construction which could trigger HRA, consultation required. Short term impacts on other and/or marine mammals etc but unlikely to be significant in context of disturbance in existing harbour Landscape: New works of relatively small scale and if implemented sensitively unlikely to be significant effects on NSA Visual amenity: Short term impacts during construction. Permanent works unlikely to be significant in the context of working harbour if implemented sensitively. Cultural heritage: Works unlikely to be of a scale to impact on setting of listed building. Environmental constraints for the Foula route are provided below for information Foula Constraints Residential properties in proximity to ferry terminal and airstrip Core path CPPWS03 in proximity to pier and to the runway location Foula GCR follows island coast in proximity to runway location Foula is e	

		 One listed building within 50m of pier Coastal flooding risk Good air quality Walls Constraints Residential properties within 50m of the pier Walls Harbour within Vaila Sound Shellfish Water Protected Area and Grunting Voe Shellfish Water Protected Area approximately 4km south of Walls Scheduled monument and listed buildings in proximity to the harbour Coastal flooding risk Good air quality
Safety:	\checkmark	This option would have a minor safety benefit as it would convert the route to Ro-Ro, removing the risks / challenges associated with Lo-Lo operations.
Economy:	√ √ √	 This option would deliver a major positive impact in terms of the economy criterion. The significant reduction in journey times associated with a 14 knot vessel would provide TEE benefits, whilst there would also be enhancements to reliability if a faster vessel can take better advantage of weather windows. The improved perception of the vessel (particularly the ability to drive on and drive off) and the crossing to Foula, coupled with reduced journey times, could also encourage increased sea-based travel to Foula. The provision of Ro-Ro could be of significant benefit to Foula overall. Evidence from a range of islands which have converted from Lo-Lo to Ro-Ro (for example in the Orkney Islands in the 1980s or the Small Isles in the early 2000s) suggests that such a transition contributes positively to economic development. Car based access to / from Foula would be beneficial, although it is important to note that the road infrastructure on the island is relatively poorly developed.
Integration:	$\checkmark\checkmark$	This option would support a range of policies focussed on island sustainability and development.
Accessibility and Social Inclusion:	$\sqrt{\sqrt{4}}$	This option would offer a major positive in terms of accessibility. As well as the enhanced access to the island & mainland (see above), accessibility to the ferry itself would be substantially improved. This would be the case for both vehicles (which could be driven rather than craned on) and passengers.