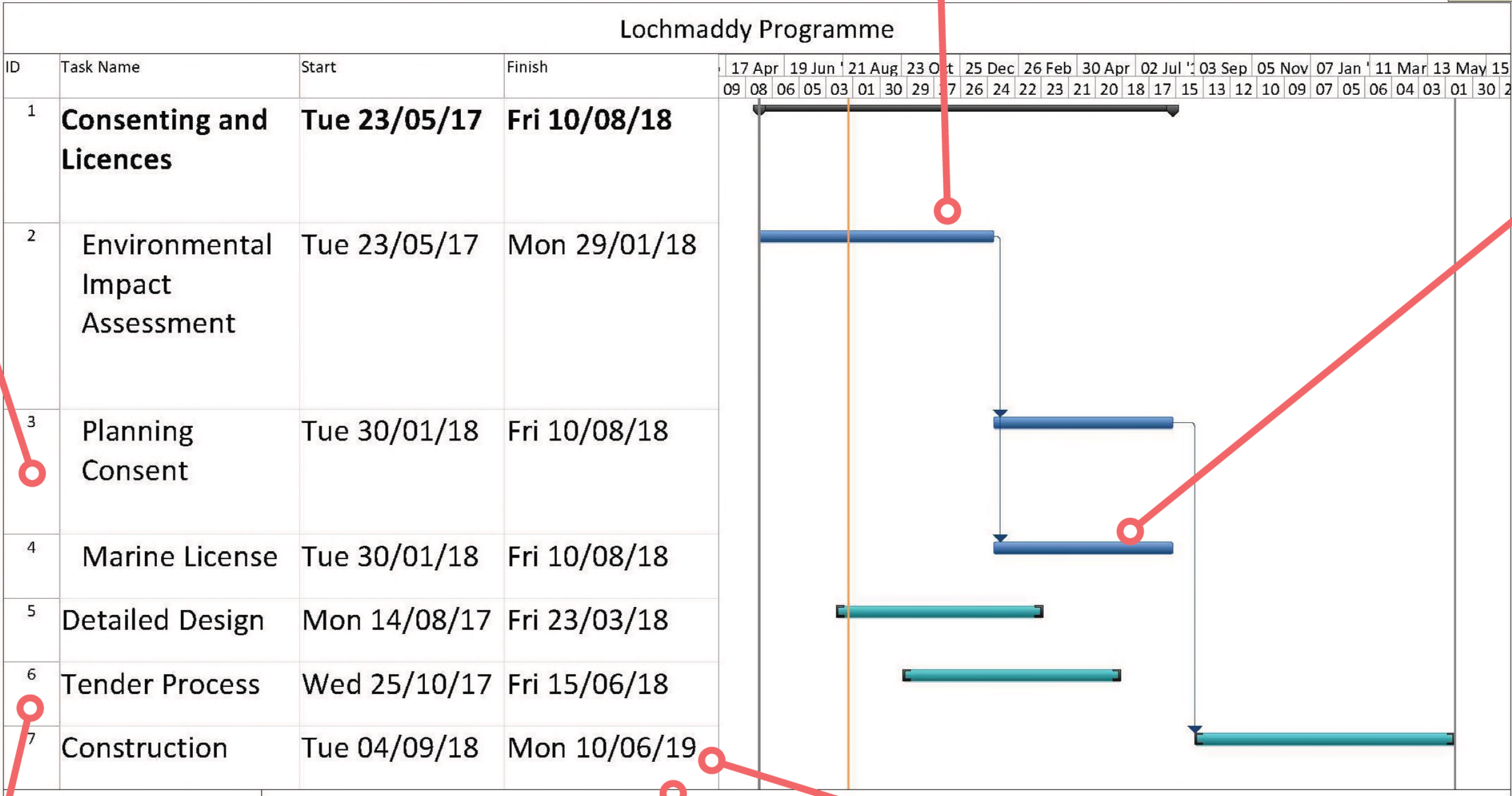


Way Forward

PLANNING CONSENT
Planning consent is required for proposed works above the Mean Low Water Springs.

ENVIRONMENTAL IMPACT ASSESSMENT (EIA)
An EIA will be completed to fully understand the environmental effects of the project. Where required appropriate mitigation will be identified to avoid and minimise effects. The EIA report will be submitted with the Planning and Marine License applications.

MARINE LICENCES
Marine Licences will be required from Marine Scotland for dredging and the construction works below the mean high water springs.



TRADITIONAL PROCUREMENT ROUTE
The detailed design will be completed by the Comhairle nan Eilean Siar engineering consultants. Tenders will be requested from the market for construction of the designed improvement works.

BUSINESS AS USUAL
The ferry timetable will not be effected by the Lochmaddy construction works.

CONSTRUCTION
The plan is to start construction works in September 2018. They are expected to take 40 weeks, with a completion date in June 2019. Pier improvement works will be completed first, followed by the reclamation to increase the marshalling area.

**SKYE TRIANGLE
INFRASTRUCTURE WORKS**

Lochmaddy



Have Your Say !

INPUT

We would like to hear your thoughts on:

- The infrastructure plans for each of the harbours;
- What should be considering within our Environmental Impact Assessments;
- Our initial construction plans; and
- Likes, dislikes and/or concerns.

We will use your feedback to inform our studies and proposals moving forward.



PROVIDING FEEDBACK

Please give us your views on the potential Terminal Upgrades by:

- Completing an online questionnaire at:
<http://www.cmassets.co.uk/project/skye-triangle-infrastructure-works/>

This feedback will then be incorporated into the final design and environmental assessment, where practicable.



NEXT TIME

Once we have completed the majority of our Environmental Impact Assessment work, we will come and see you again.

We will present our findings and give you the last chance to provide feedback to us prior to the Marine Licence, Planning Consent and Harbour Revision Order submissions being made.



AFTER SUBMISSION

Marine Scotland, Transport Scotland, Highland Council's Planning Department and Comhairle nan Eilean Siar's Planning Department will carry out public consultation once the various applications are submitted.

During their consultation, comments should be provided directly to them.

THANK YOU

Thank you for taking the time to attend this Skye Triangle Consultation Event.

STAY IN TOUCH

For the latest project information see:

<http://www.cmassets.co.uk/project/skye-triangle-infrastructure-works/>

**SKYE TRIANGLE
INFRASTRUCTURE WORKS**

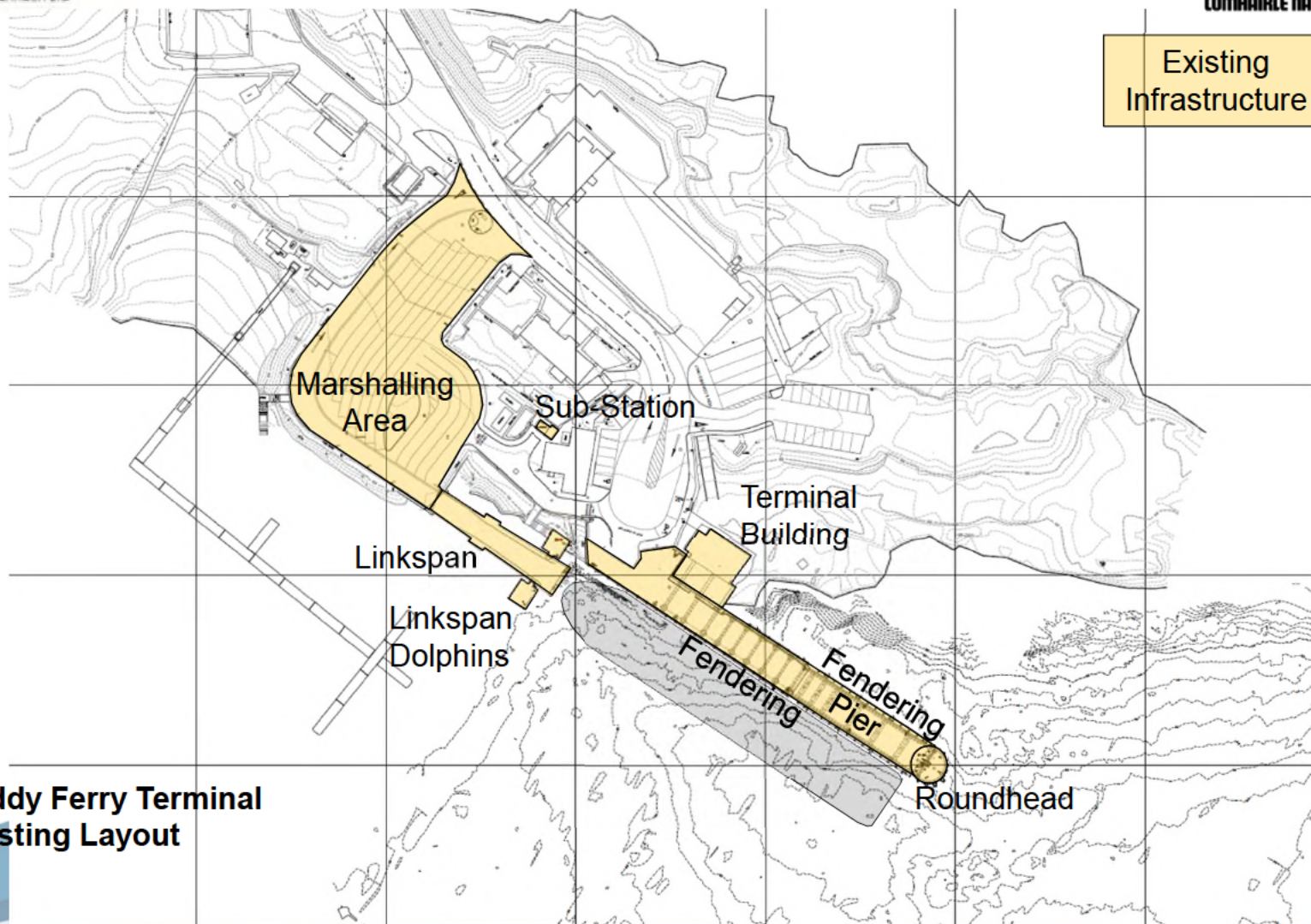


Appendix 7: Lochmaddy PAC Presentation



Lochmaddy Ferry Terminal- Proposed Infrastructure Works

Existing
Infrastructure



**Lochmaddy Ferry Terminal
Existing Layout**

Proposed Infrastructure Works

- Phase 1: works considered as essential to operate the ferry without berthing restrictions:
 - Dredging- to accommodate deeper draught of new vessel
 - Pier Extension- to accommodate berthing & mooring requirements of longer vessel
 - Pier Concrete Repairs- to middle section of existing pier
 - Fendering- to provide new fenders capable of accommodating larger vessel

Proposed Infrastructure Works

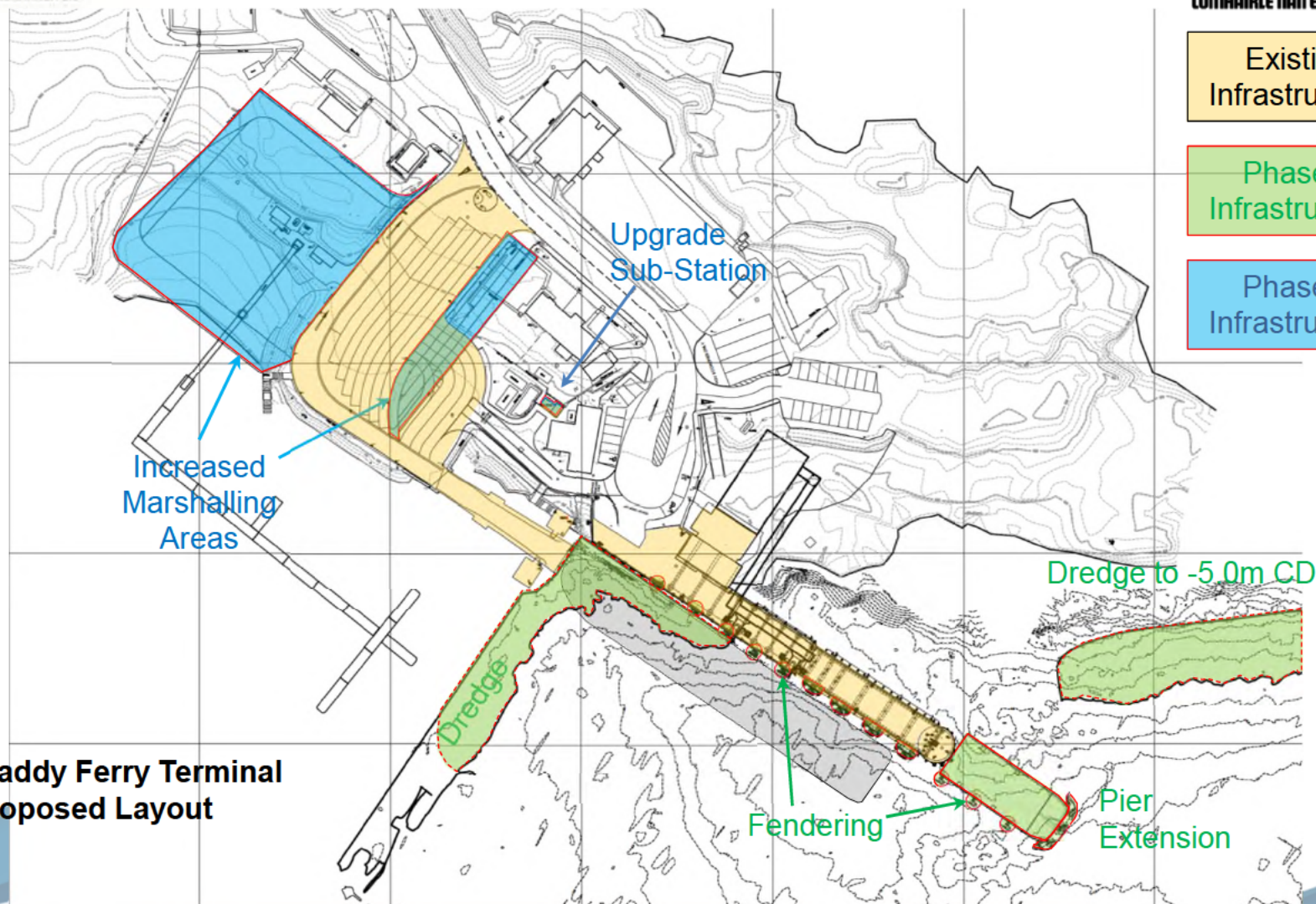
- Phase 2: works required to be able to operate the service/vessel to full capacity (mainly marshalling area extension)
 - Marshalling Area Extension- reclaimed using arising from dredge operation. Surfacing and completion later in project
 - Power Upgrade- additional electrical power capacity to pier
- Phase 1 and 2 likely to be delivered under one construction contract so no time gap between phases

Existing
Infrastructure

Phase 1
Infrastructure

Phase 2
Infrastructure

Lochmaddy Ferry Terminal Proposed Layout

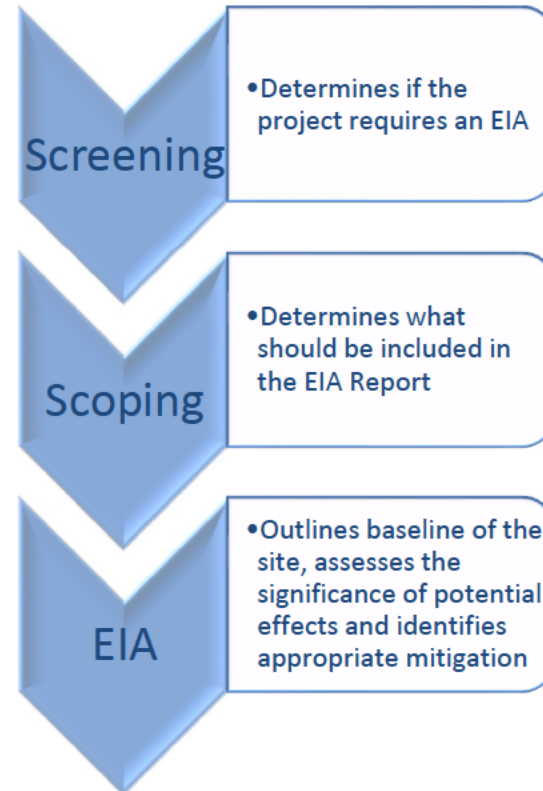


Consent Requirements

- Marine Licence
 - Required for construction below mean high water springs such as dredging, piling and pier construction.
- Harbour Revision Order/ Planning Consent
 - Works above the mean low water springs are consented under The CnES (Various Harbours) Harbour Revision Order 2002 (HRO), which grants permission to CnES to provide and improve harbour facilities within their harbour areas. For any areas not included within the HRO boundary approval will be sought under the, Town and Country Planning (Scotland) Act 1997.
- European Protected Species Licence
 - Required if the construction activities will likely affect European Protected Species such as dolphins, harbour porpoises and European otters.

Consent Requirements

- An Environmental Impact Assessment (EIA) Screening Request was submitted to Marine Scotland on the 22nd of June 2017.
- A Screening Opinion, concluding that EIA is required, was received from Marine Scotland on the 24th of August 2017.
- A Scoping Document will be submitted to Marine Scotland in the next few weeks. This will identify which subjects have the potential to cause significant impacts and therefore require additional assessment.
- Once the scope is agreed an EIA Report will be produced for submission with the Marine Licence.



Environmental Considerations

During the EIA process an assessment on any topics that have the potential to cause significant affects will be undertaken. This is likely to include:

- Biodiversity and Nature Conservation
- Noise and Vibration – Marine
- Noise and Vibration - Terrestrial
- Traffic and Access
- Water Quality – Marine

This assessment will ensure appropriate mitigation methods are identified and implemented to reduce impacts to as low as reasonably practicable.



Appendix 8: Exhibition 2 – Questionnaire

Your views on the potential Skye Triangle Ferry Terminal Upgrades

To assist in the design and community consultation of the Skye Triangle Ferry Terminal Upgrade, it would be appreciated if you could complete and return the following questions.

This is an anonymous survey and the results will be summarised and used to inform the proposed development, together with the findings from other engagement activities.

What aspects of the project are you most interested in?

Construction ☐ Ferry Upgrade ☐ Access ☐
Environment ☐ Please specify: _____
Other, ☐ Please specify: _____

Do you have any specific comments or questions regarding the proposed Terminal Upgrades?

Which Ferry Terminals are you particularly interested in (tick all that apply)?

Lochmaddy ☐ Uig ☐ Tarbert ☐

How often do you utilise the current ferries?

weekly ☐ monthly ☐ twice a month ☐
quarterly ☐ less than quarterly ☐

On a scale of 1 to 5, Do you consider that we have provided sufficient information to give you a clear understanding of the proposed upgrade works (5 is excellent and 1 is very poor)?

If you do not believe we have provided sufficient information, please let us know below what further information we could provide going forward

****Please turn over and complete the remainder of the form****

Taking account of the information provided, do you think the developments should go ahead?

Yes ☐ No ☐

Please provide reasoning:

Do you want your comments included in the marine licence submission?

Yes ☐ No ☐

To ensure we include the views of people from across the community, please can you tell us about yourself.

What is your postcode:

Are you

Male? ☐ Female? ☐

How old are you?

Under 16 yrs ☐ 16-24 yrs ☐ 25 – 39 yrs ☐

40 – 59 yrs ☐ 60 yrs plus ☐

Are you?

Employed ☐ Student ☐ Retired ☐

Self employed ☐ Other ☐

In the future, would you like us to keep you updated on the progress of the projects?

If you do not wish to receive these updates, please tick this box ☐

If you do wish to receive these updates tick the relevant box and fill in the required information

Newsletter ☐

Name:

Address:

Postcode:

Email ☐

Email Address:

Website ☐

No information required. You can access anytime at

www.cmassets.co.uk/project/skye-triangle-infrastructure-works

By entering your details we will include your details on our contact database and retain them in accordance with the Data Protection Act and will keep you updated on developments regarding the potential ferry terminal upgrades.

Thank you for completing this questionnaire. Please either:

- hand it in to a member of our team today,
- email it by 31st March 2018 to operations@cmassets.co.uk.
- post it back to us by 31st March 2018 at the address adjacent.

Caledonian Maritime Assets Ltd
Municipal Buildings
Fore Street
Port Glasgow, PA14 5EQ

Additionally, this form may be completed online at www.cmassets.co.uk/project/skye-triangle-infrastructure-works until 31st March 2018.

Appendix 9: Exhibition 2 – Display Boards

New Vessel & Need for Harbour Improvements

NEW FERRY

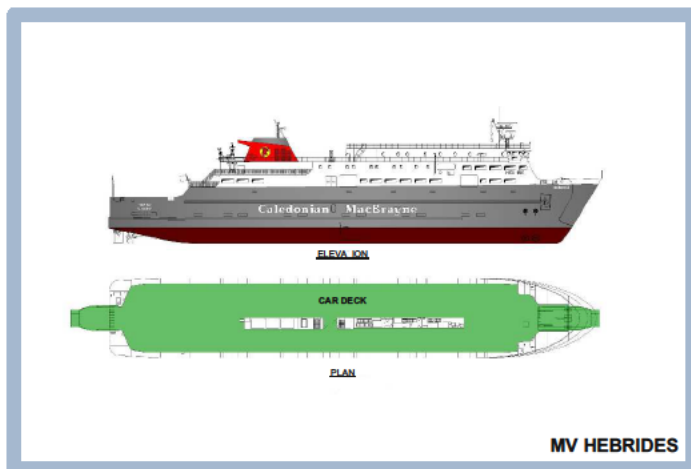
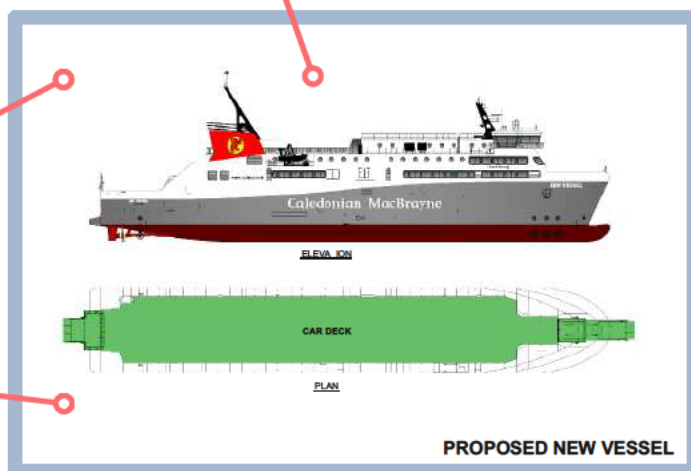
Caledonian Marine Assets Limited (CMAL) have invested in a new vessel for use on the Uig, Lochmaddy, Tarbert ferry routes (the Skye Triangle).

DUAL FUEL

The new vessel is dual fuel, with the ability to utilise both marine gas oil and Liquefied Natural Gas (LNG). It is proposed that the LNG fuelling infrastructure be installed at Uig.

CLIMATE CHANGE

The new vessel gives rise lower greenhouse gas emissions.



IMPROVED INFRASTRUCTURE

The larger ferries require infrastructure upgrades at all three harbours, to allow the heavier vessels to be moored safely.

DREDGING

The harbours need to be dredged for the large, deeper vessel.

MARSHALLING

Marshalling areas need to be increased to accommodate the greater vehicle capacity of the new vessel.

Vesle Properties	Proposed New Vessel	MV Hebrides Current Vessel
Length (m)	102.4	99.4
Breadth (m)	17.0	15.8
Design Draught (m)	3.7 max 3.4 normal	3.2
Displacement (t)	4700	3500
Gross Tonnage (t)	7040 tbc	5506
Vehicle Lane (m)	605	485
No of Passengers	1000 max 650 internal seats	612
Service Speed (knots)	16.5	16.5

SKYE TRIANGLE INFRASTRUCTURE WORKS

Environmental Considerations



TERRESTRIAL ECOLOGY

The effect of the development on otter that utilise the shore immediately east and north of the ferry terminal and fish in the local waters is being assessed.

Consideration of disturbance and habitat change will be considered for construction and operations.

TRAFFIC IMPACT ASSESSMENT

Traffic Surveys around Lochmaddy will be carried out to inform a Traffic Impact Assessment. This assessment will model the impact of the proposed road/marshalling area layout and increase in vehicle capacity of the new ferry.



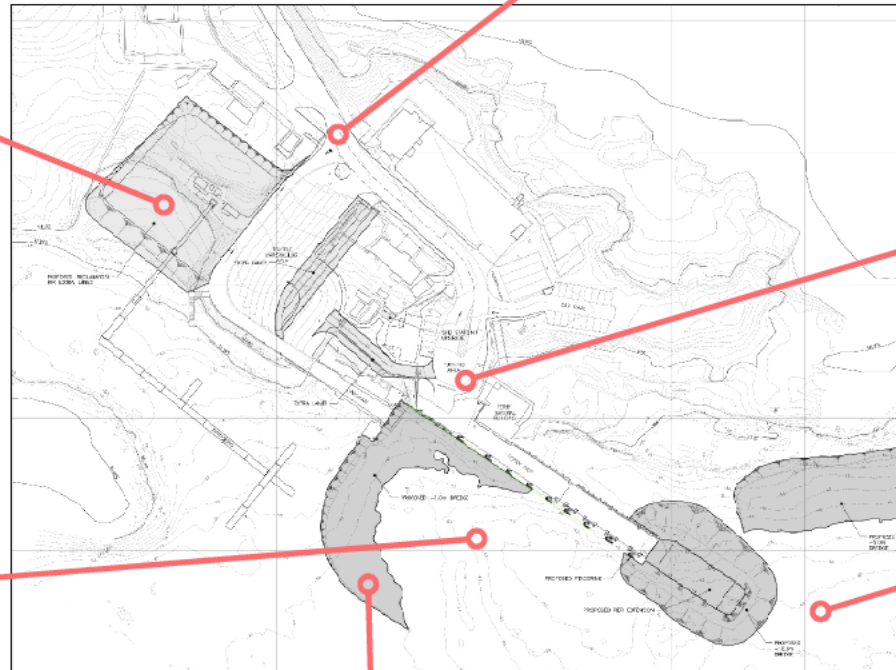
TERRESTRIAL NOISE SURVEYS

Baseline noise surveys will be carried out in March 2018. The results of these surveys will be used in the determination of the noise impact of the construction work and operation of the improved ferry terminal.



BENTHIC SURVEY

A Benthic Survey of the seabed will be undertaken in February 2018 to understand the sensitivity of the ecology of the seabed to inform the environmental impacts assessment and required mitigation measures.



UNDERWATER NOISE STUDY

An underwater noise study has been commissioned to assess the impact of the construction of the works on marine mammals and determine the required mitigation measures. Rock blasting if required will give rise to high underwater noise levels. The local bathymetry affects the spread of noise in the water column.



DREDGE SAMPLING

Vibrocore Samples of the seabed material in the proposed dredge areas will be taken in March 2018. These will be analysed to determine the suitability of the material for re-use in the works and where material not used can be disposed of.



Lochmaddy

SKYE TRIANGLE
INFRASTRUCTURE WORKS



Proposed Infrastructure

RECLAMATION

It is proposed that an area of beach to the West of the existing marshalling area be reclaimed by using dredged material from the site. This will bring the level of the reclamation up to the same level as the existing marshalling area, increasing the existing marshalling capacity.

Further discussions with North Uist Estate and Comann na Mara will be held in the near future regarding use of the land, layout of the marina facilities and continued access to the pontoons both during and after construction.



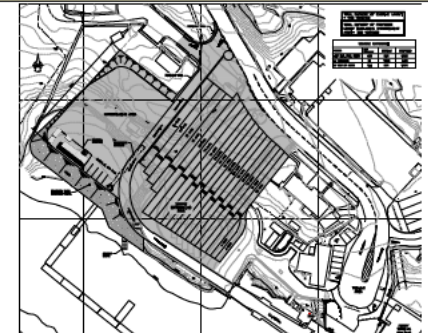
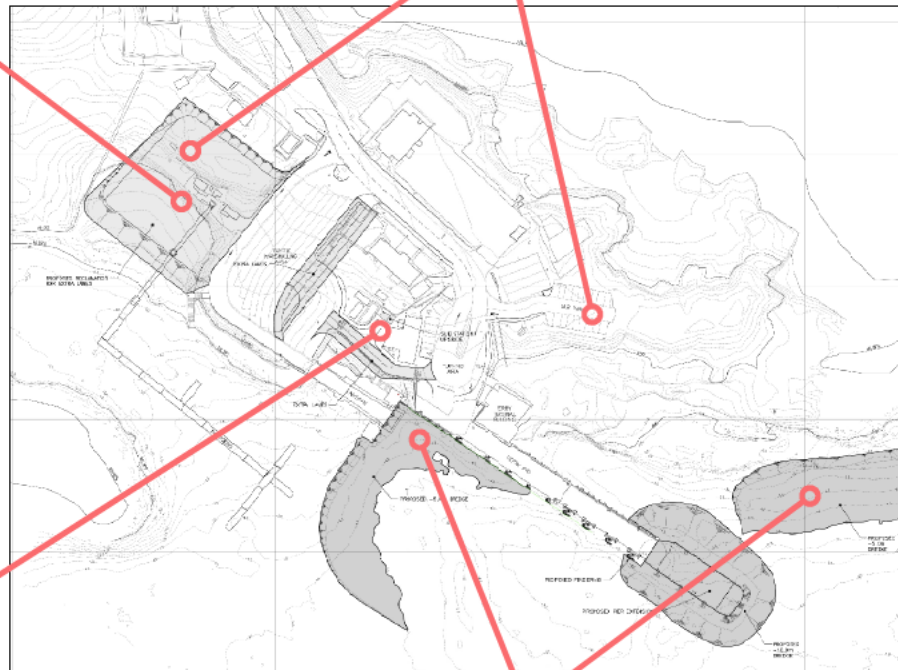
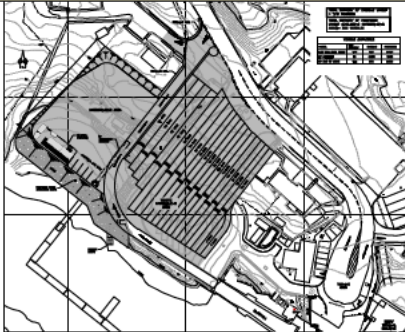
PARKING

The land reclamation will provide additional area beyond the increased marshalling capacity. The provision of parking spaces on the site will be reviewed with a view to improving the space available.

MARSHALLING AREA

The reclamation will enable the marshalling area capacity to be increased to approximately 150% of the new vessel capacity. This additional capacity is aimed at ensuring that, in busy times, there is less likelihood of arriving and waiting cars backing up onto the public road.

The entrance/exit road will be moved westwards to allow additional marshalling lanes to be added. The interface with the public road and proposed check in arrangements are currently being considered. This will be consulted with CnES and a Traffic Impact Assessment carried out to confirm the effectiveness of the proposed solution.



POWER UPGRADE

A feasibility study has been carried out by SSE into upgrading the power supply to enable the new vessel to be powered from the shoreside electrical supply overnight rather than run its engines. This has identified the work required to the substation which will be included in the scope of works.

DREDGING

Dredging will be carried out at the ferry berth close to the linkspan and at a shallow area to the North West of the pier. The material to be dredged will largely be rock. Initial Ground Investigation has been carried out to determine the position and nature of the rock at the ferry berth. Given the nature of the rock, it is possible that some blasting may be required.



Lochmaddy

SKYE TRIANGLE
INFRASTRUCTURE WORKS



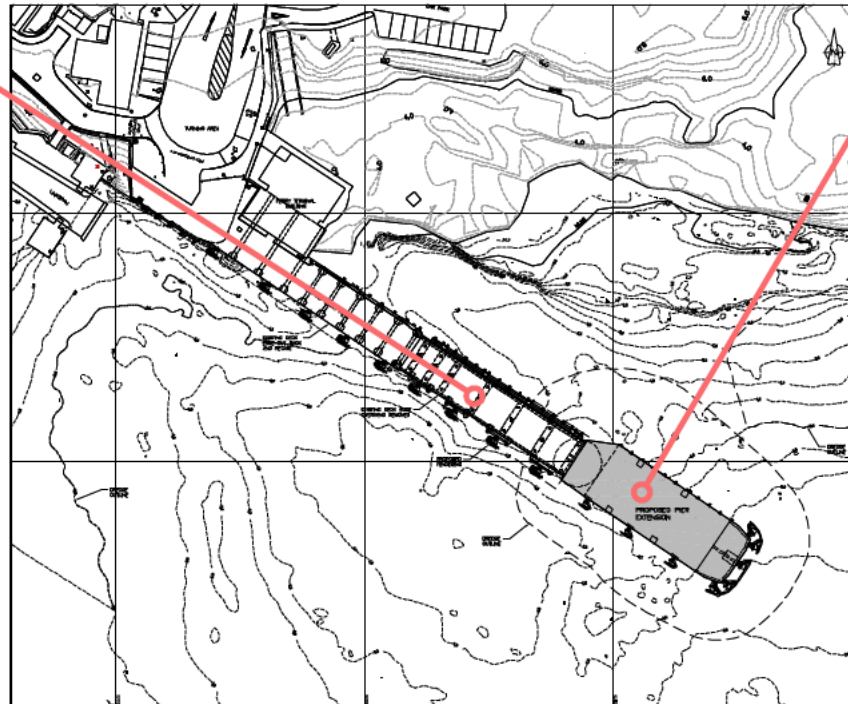
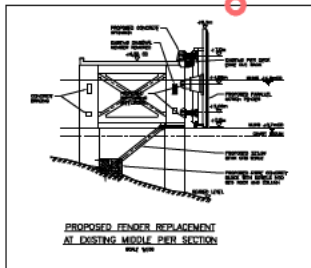
Proposed Infrastructure

EXISTING PIER

The middle section of the existing pier, constructed in the 1950s, needs to be strengthened for the berthing of the new vessel.

Concrete investigation has been carried out to understand the nature and condition of the material to specify the extent of strengthening.

Corrosion of reinforcement has been found. This will be repaired as part of the development.

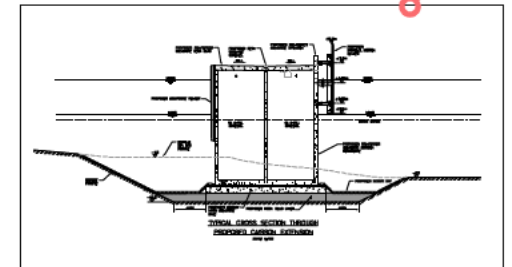


PIER EXTENSION

The pier will be extended by circa 30m. To avoid closing the ferry terminal for this, the extension will be formed of a concrete caisson which will be fabricated off site. The foundation for the Caisson will be constructed while the caisson is being manufactured.

The caisson will then be towed by sea to site and grounded on the prepared foundation in the correct position. This positioning of the caisson will be carried out between ferry services to avoid ferry services being cancelled.

This approach was recently adopted successfully at Ullapool.



Lochmaddy

SKYE TRIANGLE
INFRASTRUCTURE WORKS



KOTHIMHALL ROAD, ELMAN, SKYE

Way Forward

ENVIRONMENTAL IMPACT ASSESSMENT (EIA)

The EIA is underway. Seabed survey and sampling and baseline terrestrial noise surveys have been commissioned.

A Traffic Impact Assessment and underwater noise modelling will also be progressed. The EIA report will be required for the Planning Consent and Marine License application.

MARINE AND DREDGE LICENSES

Licenses will be required from Marine Scotland for dredging and construction works below mean high water springs.

Lochmaddy High Level Programme- Jan 18									
ID	Task Name	Start	Finish	2018	2019	2020			
				J	F	M	A	M	J
1	Consents and Licenses	Tue 23/05/17	Mon 26/11/18						
2	Environmental Impact Assessment	Tue 23/05/17	Fri 29/06/18						
3	Marine & Dredge Licenses	Mon 21/05/18	Mon 26/11/18						
4	Planning Consent	Mon 21/05/18	Mon 26/11/18						
5	Detailed Design	Mon 04/12/17	Fri 29/06/18						
6	Tender Process	Thu 03/05/18	Fri 09/11/18						
7	Construction	Tue 08/01/19	Fri 20/12/19						

PLANNING CONSENT

Planning consent will be required for the construction of the reclaimed/extended marshalling area.

CONSTRUCTION

Construction can only commence when planning consent and marine license have been granted. Work will last approximately 12 months.

PROCUREMENT

Early engagement with potential suppliers has already started with a view to promoting the project and getting feedback from the supply chain on the best approach to procurement

Lochmaddy

**SKYE TRIANGLE
INFRASTRUCTURE WORKS**



KOMHARLE MAR ISLEAM SHAM

Have Your Say !

INPUT

We would like to hear your thoughts on:

- The updated infrastructure plans for each of the harbours;
- Likes, dislikes and/or concerns.

We will use your feedback to inform our studies and proposals moving forward.



PROVIDING FEEDBACK

Please give us your views on the planned Terminal Upgrades by:

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STAY IN TOUCH

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SKYE TRIANGLE INFRASTRUCTURE WORKS



Vessel 802

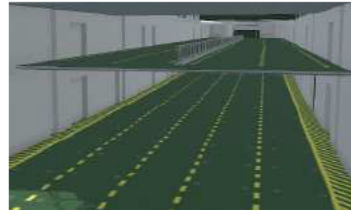
ADAPTABILITY

Several novel design features, including this sliding stern ramp, allow the vessel to operate at various linkspans on the West of Scotland.



VEHICLES

The vessel has been designed for modern cars, lorries and motor homes. Between the car deck and the hoistable mezzanine decks, this gives her 25% more vehicle space than the other ships in her class. The car deck has three passenger lifts and four passenger staircases. Furthermore, the car deck has an increased garage height of 5.1m below the stowed mezzanine decks.



MAIN PARTICULARS

Length Overall = 102.4m
Breadth = 17m
Draught = 3.4m
Service Speed = 16.5 knots
Passengers = 1000
Cars = 130
HGV's = 16



BOW DOORS & RAMP

A novel two-part bow ramp is quick to operate which means turnaround time in port is minimised.



STERN

The vessel has a stern thruster that works with the bow thrusters to create lateral or rotational movement. Furthermore, the vessel boasts a set of high efficiency flap rudder.



DUAL-FUEL

The vessel can operate on traditional MGO or cleaner LNG. An arrangement of auxiliary dual-fuel and diesel generators and shaft motors means that the vessel can be operated on 16 different operating modes. This ensures maximum efficiency, cleanliness and equipment lifespan.



BOW THRUSTERS

Three bow thrusters contribute to the ships increased manoeuvrability and station-keeping characteristics.



SKYE TRIANGLE INFRASTRUCTURE WORKS

Passenger Accommodation Concept

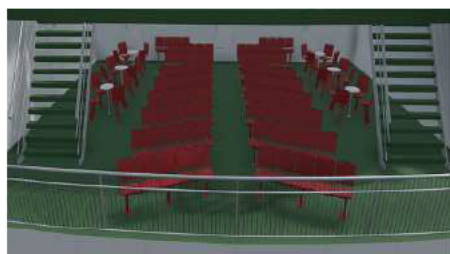


DECK 5
Aft
Lounge

DECK 5
Forward
Lounge

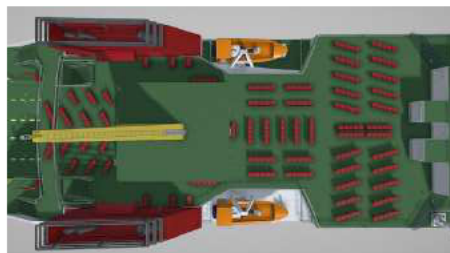
CHALLENGES

Accommodate 1000 passengers
Feed 1000 passengers
Facilitate 1000 passengers
LSA for 1000 passengers
Range of Comfortable Seating
Accessibility for Everyone



DECK 6 & 7
External
Lounge

DECK 6
Observation
Lounge



SKYE TRIANGLE
INFRASTRUCTURE WORKS

Passenger Accommodation Concept



AFT LOUNGE

The aft passenger lounge on Deck 5 seats 250 people and consists of: a viewing lounge, family lounge, two pet areas, kids area, retail outlet and shop, ladies and gents WC's, a fully accessible WC, and baby changing facilities. This lounge has two lifts and two staircases.



OBSERVATION LOUNGE

The observation lounge on Deck 6 seats 160 people and consists of: recliner viewing lounge, alternative lounge, quiet lounge, vending machines, ladies and gents WC's and an accessible WC.

EXTERNAL SEATING

The vessel has two fully accessible external seating areas: one covered area on Deck 6 and one large open area on Deck 7. There are a total of 350 external seats.



SKYE TRIANGLE
INFRASTRUCTURE WORKS

Appendix 10: Exhibition 3 – Questionnaire

Skye Triangle Ferry Terminal Upgrades

If you would like to be kept informed of the project status and be invited to any further meetings, please complete the following information and pass to a member of the team before you leave. Thank you.

1. NAME:		
2. EMAIL ADDRESS:		
3. ADDRESS: (please complete ONLY if you do not have an e-mail address)		
4. GROUP YOU ARE REPRESENTING (if applicable):		
5. WHAT IS YOUR AGE?		
<input type="checkbox"/> 16-24	<input type="checkbox"/> 25-39	<input type="checkbox"/> 40-59
<input type="checkbox"/> 60 years plus		
6. CURRENT EMPLOYMENT STATUS		
<input type="checkbox"/> Employed	<input type="checkbox"/> Student	<input type="checkbox"/> Retired
<input type="checkbox"/> Self Employed	<input type="checkbox"/> Other	
7. WHAT ASPECT OF THE PROJECT ARE YOU MOST INTERESTED IN?		
<input type="checkbox"/> Construction	<input type="checkbox"/> Ferry Upgrade	<input type="checkbox"/> Access
<input type="checkbox"/> Environment	Please specify _____	
<input type="checkbox"/> Other	Please specify _____	
8. DO YOU HAVE ANY SPECIFIC COMMENTS OR QUERIES REGARDING THE TERMINAL UPGRADES?		
9. WHICH FERRY TERMINALS ARE YOU PARTICULARLY INTERESTED IN ? (Tick all that apply)		
<input type="checkbox"/> Lochmaddy	<input type="checkbox"/> Uig	<input type="checkbox"/> Tarbert