

# Lochmaddy Ferry Terminal Upgrade Environmental Impact Assessment Report



Volume 4

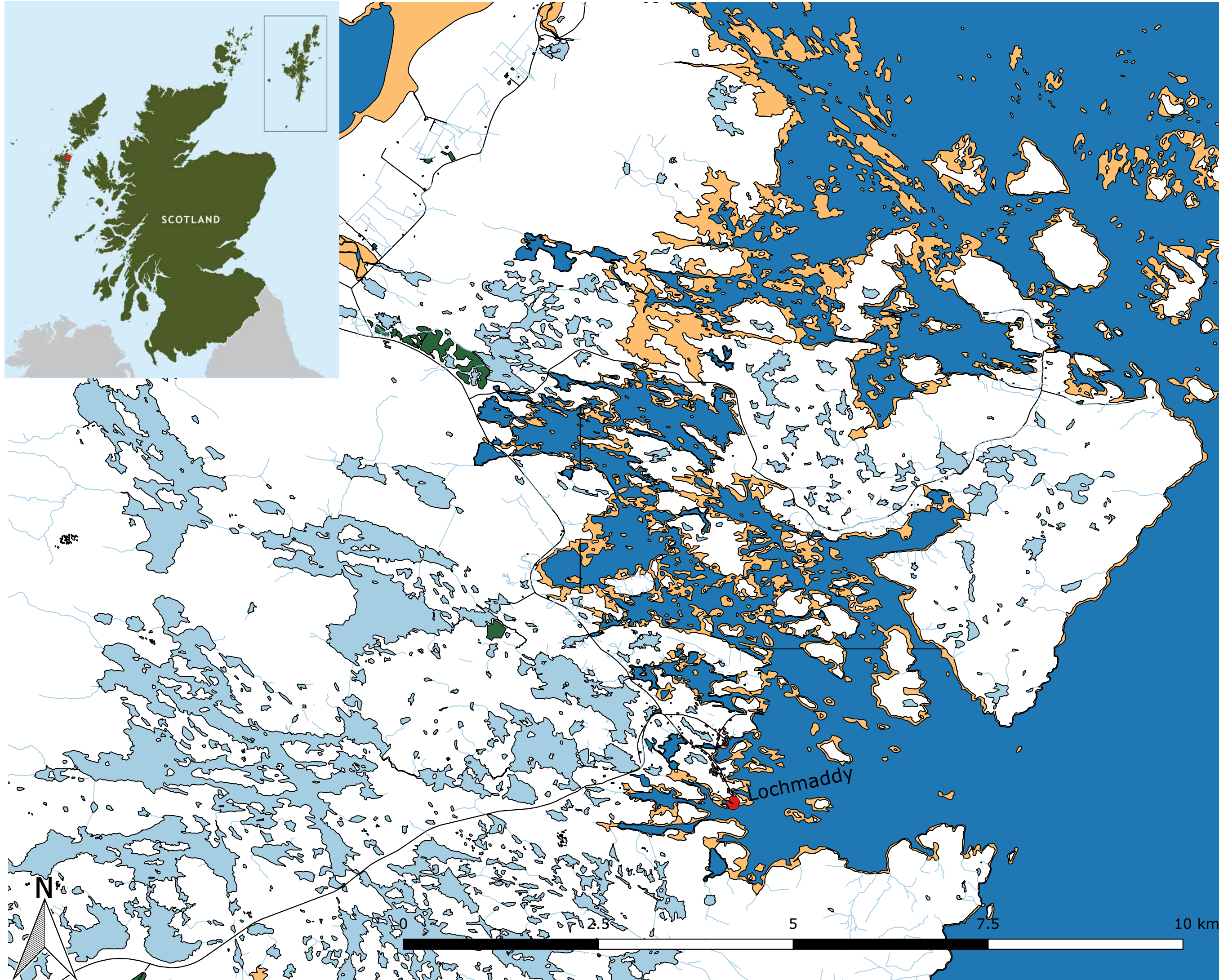
Drawings


April 2019



**SKYE TRIANGLE  
INFRASTRUCTURE WORKS**







making it happen

Registered Office:  
Lochview Office, Loch Duntelchaig  
Farr, Inverness, IV2 6AW

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Title: 49L2.01 Lochmaddy Location

Projection: OSGB 1936/British National  
Grid EPSG: 27700

ORDNANCE SURVEY DATA LICENCE

Your use of OS OpenData is subject to the  
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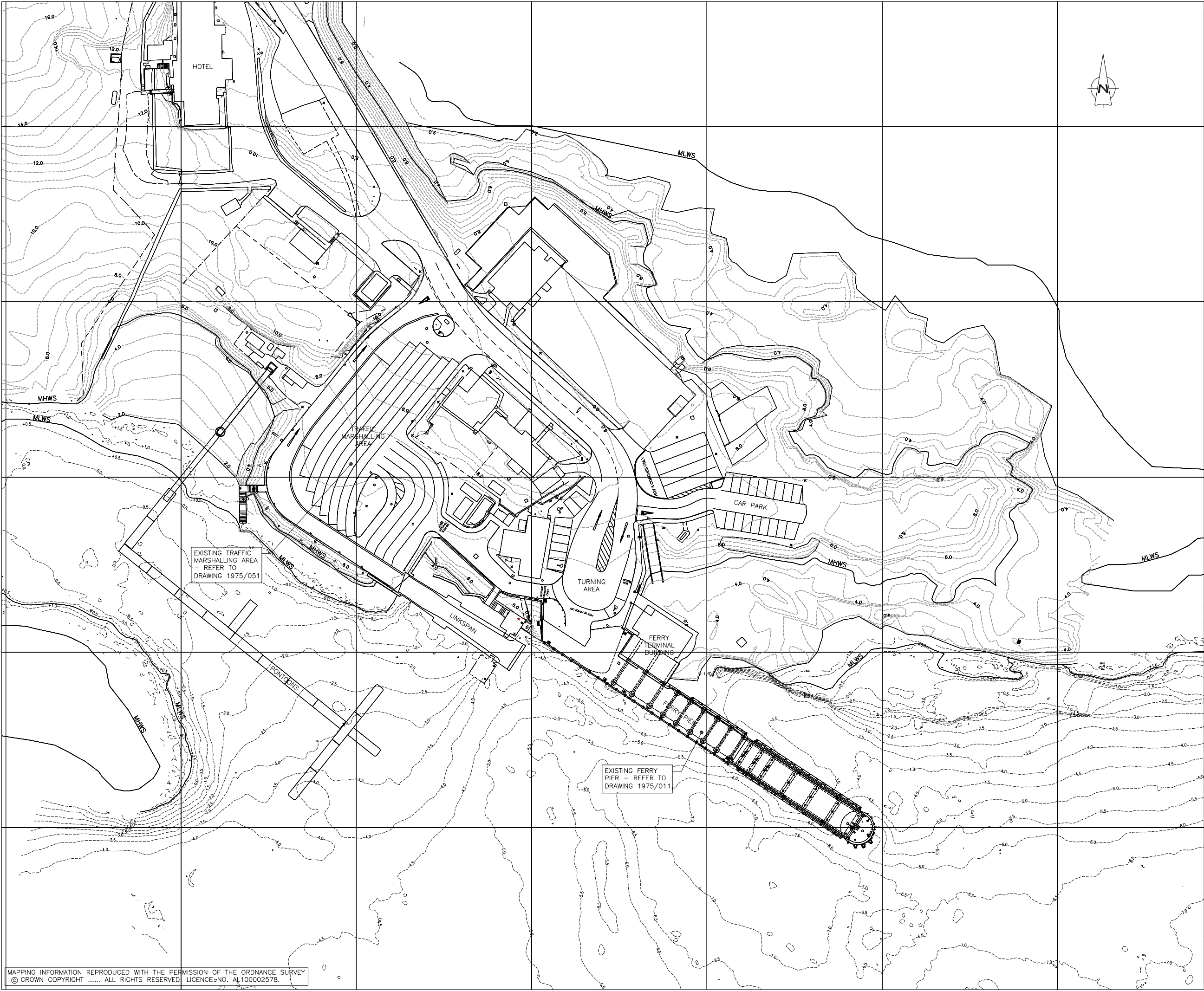
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Page 1	Rev No: 1	Drawing Date: 14/06/2017
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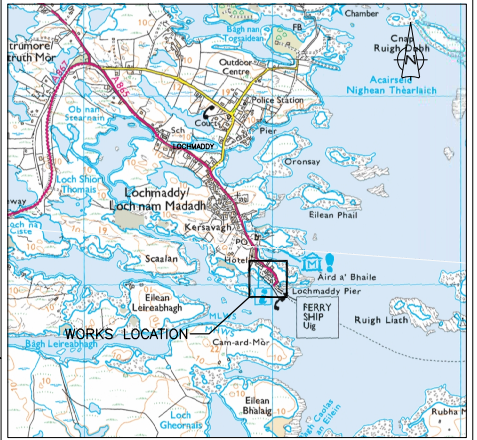
**Legend**

- Inland Water
- Foreshore
- Lochmaddy
- Buildings
- Tidal Water
- Woodland
- Roads





- GENERAL NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  2. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.
  3. ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.
  4. H.A.T. +5.6m L.A.T. +0.1m  
M.H.W.S. +4.8m M.L.W.S. +0.7m  
M.H.W.N. +3.6m M.L.W.N. +1.9m
  5. FOR EXISTING PIER SHOWING ROCKHEAD REFER TO DRAWING 1975/012



LOCATION PLAN  
SCALE 1:20,000

B	29.11.18	LAT AMENDED	Redacted		
A	01.11.18	LOCATION PLAN ADDED.			
REV	DATE	DETAILS	DRAWN	CHK'D	APP'D

AMENDMENTS

CLIENT  **Comhairle nan Eilean Siar**

PROJECT  
LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

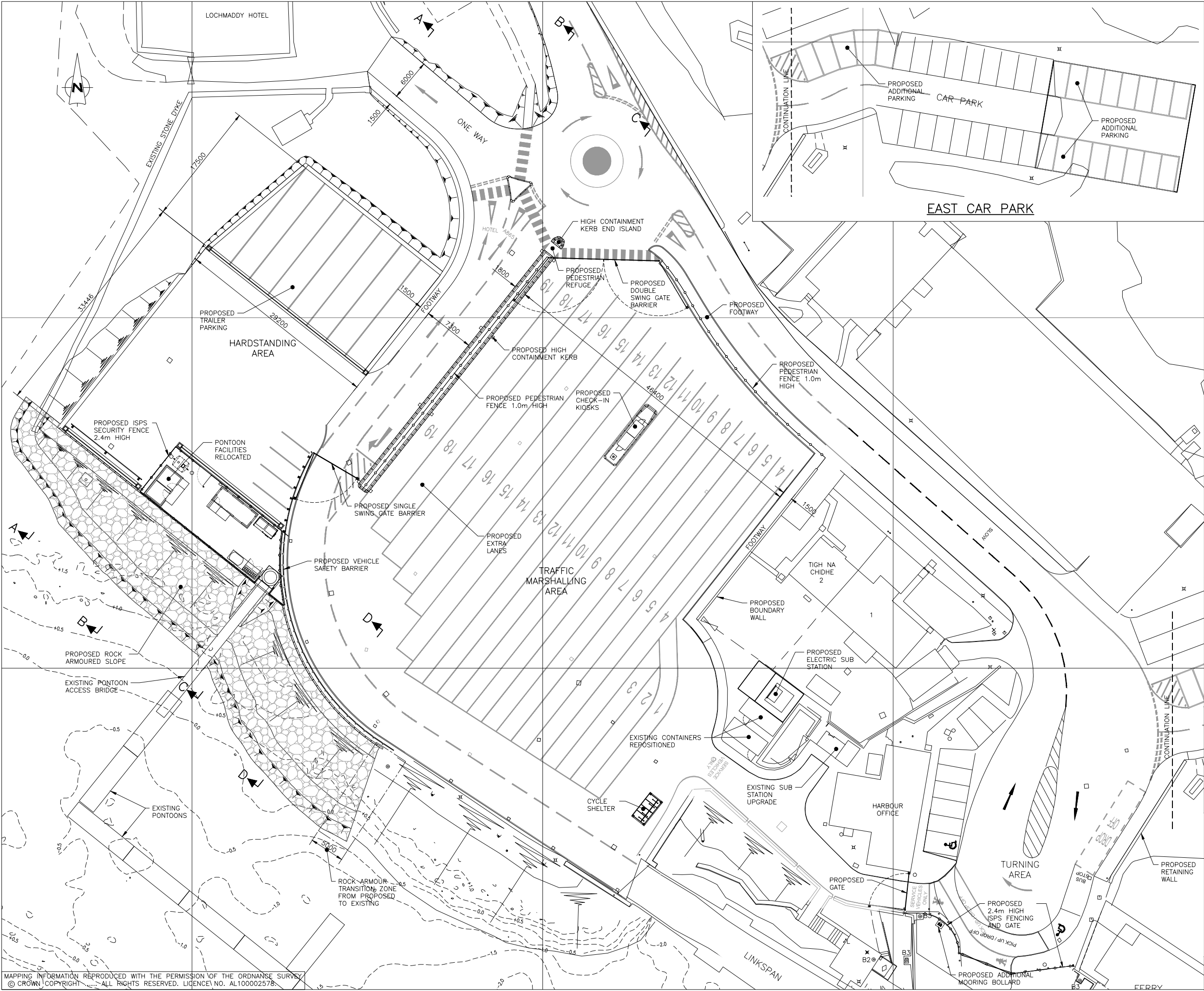
**Wallace Stone**  
CONSULTING CIVIL ENGINEERS

GLASGOW 0141 554 8233 glasgow@wallacestone.co.uk  
DINGWALL 01349 866775 dingwall@wallacestone.co.uk  
HEBRIDES 01851 612454 hebrides@wallacestone.co.uk

DRAWING TITLE  
**EXISTING SITE LAYOUT**

DRAWN	CHECKED	APPROVED
Redacted		
DATE	DATE	DATE
03.05.17	09.05.17	09.05.17
SCALE (A1)	STAGE	INFORMATION
1:500		
REVISION	A B	
PROJECT No.	DRAWING No.	
1975	001	



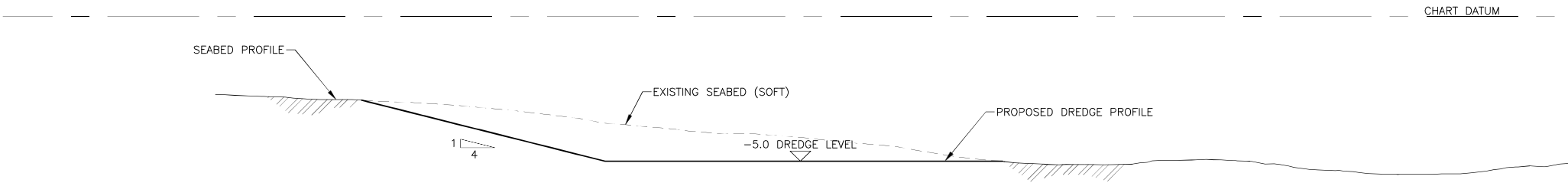


GENERAL NOTES

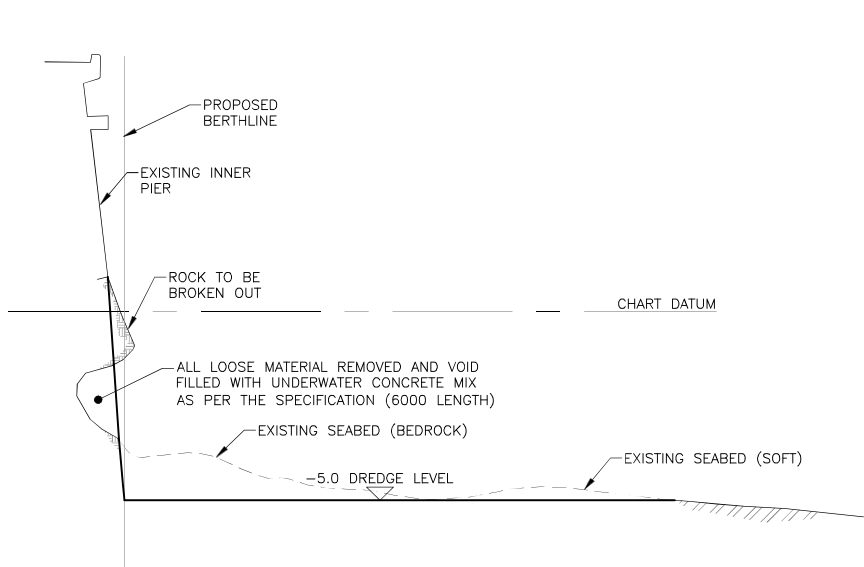
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM UNLESS NOTED OTHERWISE.
- ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.
- |          |       |         |       |
|----------|-------|---------|-------|
| H.A.T    | +5.6m | LAT     | +0.1m |
| M.H.W.S. | +4.8m | M.L.W.S | +0.7m |
| M.H.W.N. | +3.6m | M.L.W.N | +1.9m |
- REFER TO DRAWING No. 1975-251 FOR EARTHWORKS AND RECLAMATION.
- REFER TO DRAWING NO. 1975-351 FOR DRAINAGE LAYOUT.
- REFER TO DRAWING NO. 1975-551 FOR SETTING OUT.
- REFER TO DRAWING NO. 1975-561 FOR PONTOON FACILITIES LAYOUT.
- REFER TO DRAWING NO. 1975-570 FOR BUS TURNING LAYOUT.
- REFER TO DRAWING NO. 1975-591 FOR EAST CAR PARK EXTENSION LAYOUT.
- REFER TO DRAWING NO. 1975-651 FOR FENCE AND BARRIER LAYOUT.
- REFER TO DRAWING NO. 1975-661 FOR LIGHTING COLUMN LAYOUT.
- REFER TO DRAWING NO. 1975-691 FOR WHITE LINING LAYOUT.

B	APR 19	ROUNDBOUT REVISED	Redacted								
A	NOV 18	MINOR AMENDMENTS									
REV	DATE	DETAILS	DRAWN CHK'D APP'D								
AMENDMENTS											
CLIENT <b>Comhairle nan Eilean Siar</b>											
PROJECT <b>LOCHMADDY FERRY TERMINAL UPGRADE WORKS</b>											
<div><div><b>Wallace Stone</b> CONSULTING CIVIL ENGINEERS</div><div><div>GLASGOW</div><div>0141 554 8233</div><div>glasgow@wallacestone.co.uk</div></div><div><div>DINGWALL</div><div>01349 866775</div><div>dingwall@wallacestone.co.uk</div></div><div><div>HEBRIDES</div><div>01851 612454</div><div>hebrides@wallacestone.co.uk</div></div></div>											
DRAWING TITLE <b>MARSHALLING AREA PROPOSED GENERAL LAYOUT</b>											
DRAWN <b>Redacted</b>		CHECKED	APPROVED								
DATE 28.05.18	DATE 17.10.19	DATE 17.10.18									
SCALE (A1) 1:250		STAGE <b>TENDER</b>									
REVISION <table><tr><td>A</td><td>B</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>		A	B								
A	B										
PROJECT No. <b>1975</b>		DRAWING No. <b>151</b>									

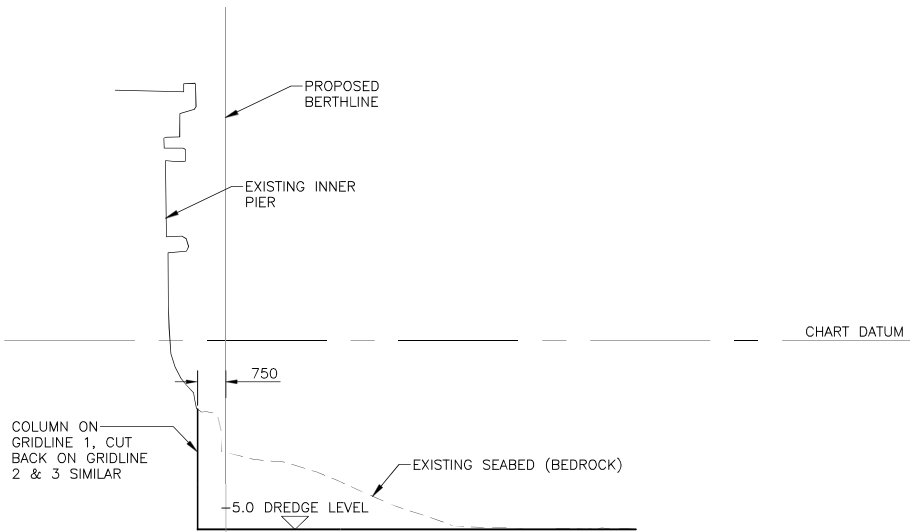




LONG SECTION THROUGH WEST DREDGE  
SECTION A-A  
SCALE 1:100



CROSS SECTION THROUGH INNER PIER/DREDGE  
SECTION B-B  
SCALE 1:100



CROSS SECTION THROUGH MIDDLE PIER/DREDGE  
SECTION C-C  
SCALE 1:100



GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.

2. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM UNLESS NOTED OTHERWISE.

3. SEABED SURVEY BY ASPECT SURVEYS JULY 2017.

4. REFER TO DRAWING 1975/201 FOR DREDGE LAYOUT.

5. 

HAT	+5.6m	LAT	+0.1m
MHWS	+4.8m	MLWS	+0.7m
MHWN	+3.6m	MLWN	+1.9m

A

01.11.18

IMAGES ADDED

Redacted

REV

DATE

DETAILS

DRAWN

CHK'D

APP'D

AMENDMENTS

CLIENT

Comhairle nan Eilean Siar

PROJECT

LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

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DRAWING TITLE

PROPOSED INNER DREDGE  
SECTIONS

DRAWN

Redacted

CHECKED

APPROVED

DATE

MAY 2018

DATE

OCT. 2018

DATE

OCT. 2018

SCALE (A1)

AS SHOWN

STAGE

TENDER

REVISION

A

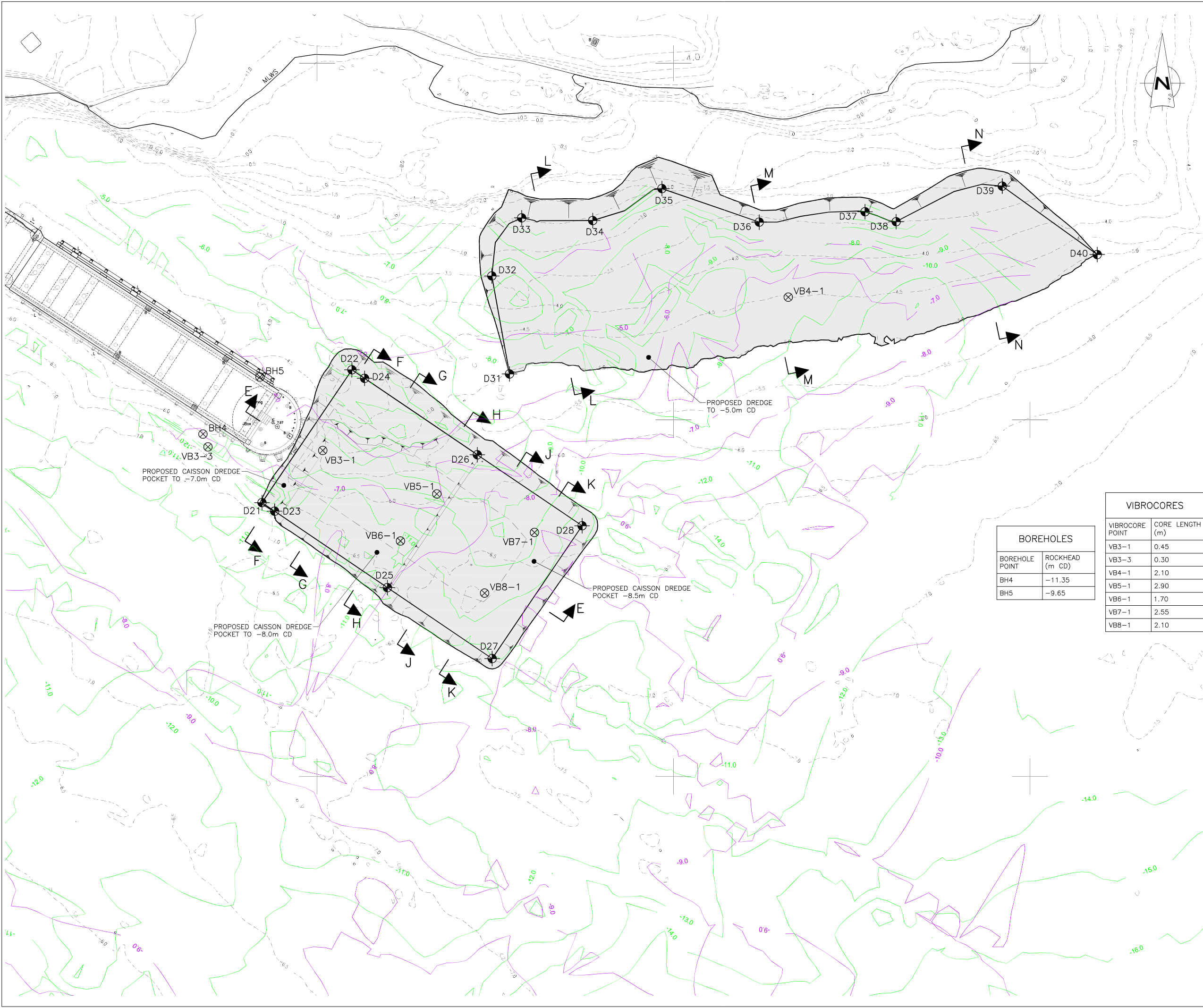
PROJECT No.

1975

DRAWING No.

202





GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES.
- ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM UNLESS NOTED OTHERWISE. ORDNANCE DATUM +2.59m ABOVE CHART DATUM
- SEABED SURVEY BY ASPECT SURVEYS JULY 2017.
- ROCKHEAD SURVEY CARRIED OUT MARCH 2017.
- REFER TO DRAWING 1975/204 FOR CROSS SECTIONS.
- |      |       |      |       |
|------|-------|------|-------|
| HAT  | +5.6m | LAT  | +0.1m |
| MHWS | +4.8m | MLWS | +0.7m |
| MHWN | +3.6m | MLWN | +1.9m |

SETTING OUT POINT	EASTINGS (m)	NORTHINGS (m)
D21	92000.541	867920.551
D22	91982.633	867932.783
D23	92094.052	867937.183
D24	92106.670	867955.811
D25	91974.660	867972.607
D26	91984.928	867988.081
D27	91988.623	867988.497
D28	91999.536	868002.271

SETTING OUT POINT	EASTINGS (m)	NORTHINGS (m)
D31	92126.996	867956.431
D32	92124.521	867970.177
D33	92128.702	867978.321
D34	92138.668	867977.940
D35	92148.376	867982.427
D36	92162.022	867977.722
D37	92176.865	867979.179
D38	92181.235	867977.780
D39	92196.115	867982.768
D40	92209.442	867973.168

LEGEND

- ROCKHEAD CONTOURS
- GRAVEL CONTOURS
- BOREHOLE/VIBROCORE

BOREHOLE POINT	ROCKHEAD (m CD)
BH4	-11.35
BH5	-9.65

VIBROCORE POINT	CORE LENGTH (m)
VB3-1	0.45
VB3-3	0.30
VB4-1	2.10
VB5-1	2.90
VB6-1	1.70
VB7-1	2.55
VB8-1	2.10

B 07.03.19 – TENDER ISSUE – MINOR AMENDMENTS

A 23.11.18 LAT AMENDED

REV	DATE	DETAILS	DRAWN	CHK'D	APP'D

AMENDMENTS

CLIENT **Comhairle nan Eilean Siar**

PROJECT **LOCHMADDY FERRY TERMINAL UPGRADE WORKS**

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DRAWING TITLE

**PROPOSED OUTER DREDGE LAYOUT**

DRAWN	CHECKED	APPROVED
Redacted		

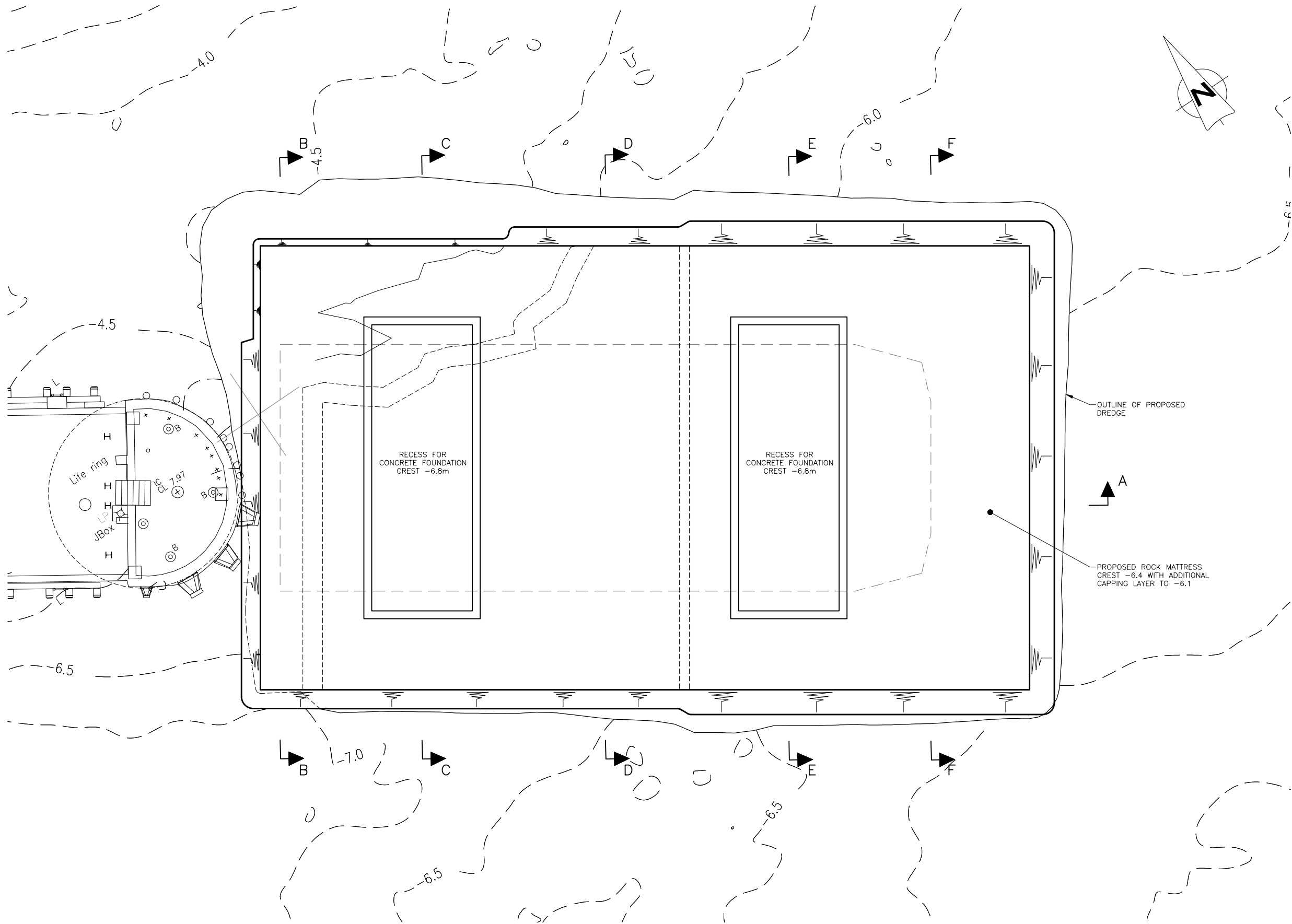
DATE	DATE	DATE
MAY 2018	OCT. 2018	OCT. 2018

SCALE (A1)	STAGE
1:250	TENDER

REVISION	A	B							

PROJECT No.	DRAWING No.
1975	203





- GENERAL NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM UNLESS NOTED OTHERWISE. ORDNANCE DATUM +2.59m ABOVE CHART DATUM
  3. 

HAT	+5.6m	LAT	+0.1m
MHWS	+4.8m	MLWS	+0.7m
MHWN	+3.6m	MLWN	+1.9m
  4. ROCK MATTRESS TO BE MADE UP OF SINGLE SIZE ROCKFILL 20kg TO 40kg – REFER TO SPECIFICATION.

A	01.11.18	MINOR AMENDMENT	Redacted		
REV	DATE	DETAILS	DRAWN	CHK'D	APP'D

AMENDMENTS

CLIENT



**Comhairle nan Eilean Siar**

PROJECT

LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

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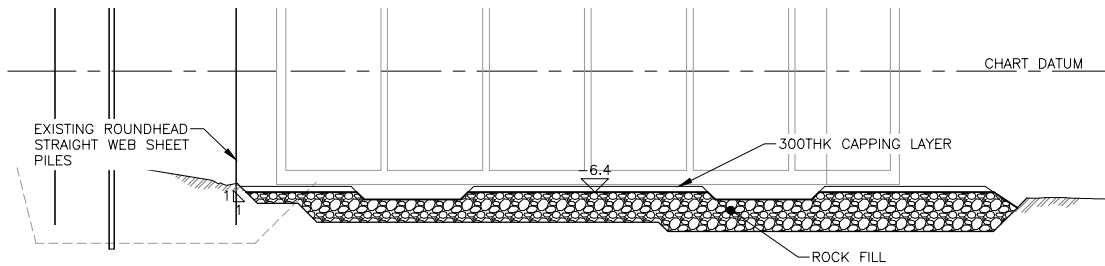
HEBRIDES  
01851 612454  
hebrides@wallacestone.co.uk

DRAWING TITLE

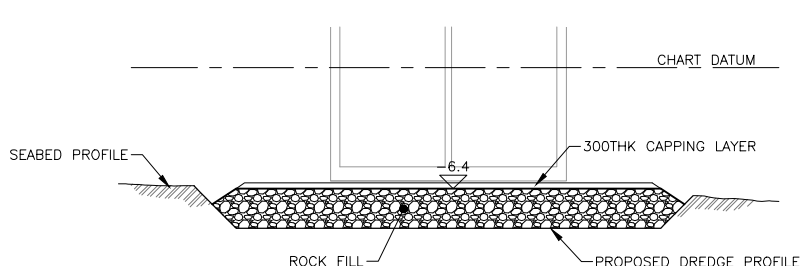
PROPOSED ROCK MATTRESS  
GENERAL LAYOUT

DRAWN	CHECKED	APPROVED
Redacted		
DATE	DATE	DATE
SEPT. 2018	OCT. 2018	OCT. 2018
SCALE (A1)	STAGE	
1:100	TENDER	
REVISION	A	
PROJECT No.	DRAWING No.	
1975	211	

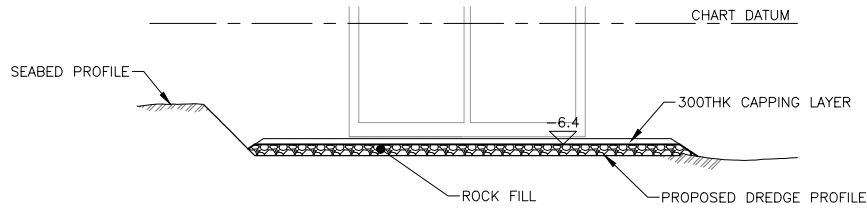




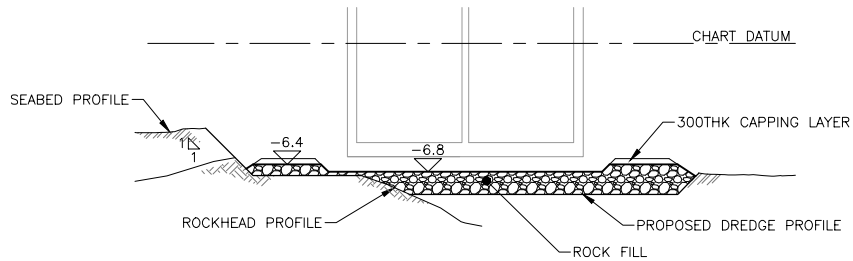
LONG SECTION THROUGH CAISSON POCKET DREDGE  
SECTION A-A  
SCALE 1:200



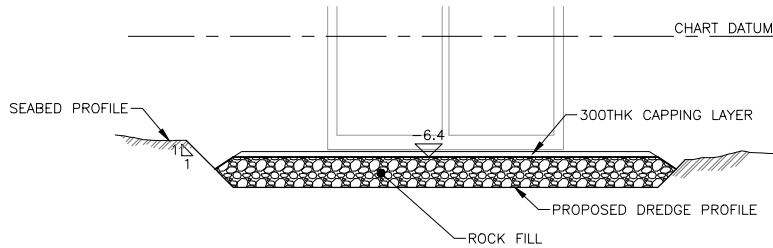
CROSS SECTION THROUGH CAISSON POCKET DREDGE  
SECTION F-F  
SCALE 1:200



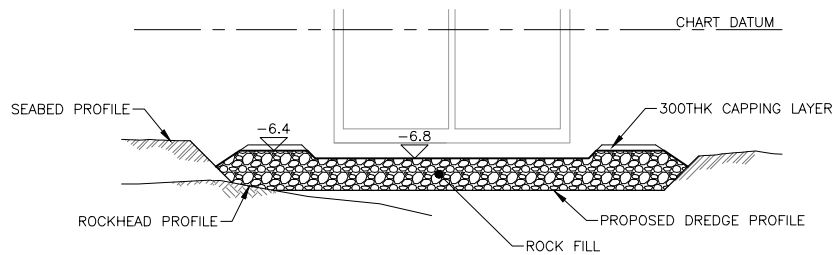
CROSS SECTION THROUGH CAISSON POCKET DREDGE  
SECTION B-B  
SCALE 1:200



CROSS SECTION THROUGH CAISSON POCKET DREDGE  
SECTION C-C  
SCALE 1:200



CROSS SECTION THROUGH CAISSON POCKET DREDGE  
SECTION D-D  
SCALE 1:200



CROSS SECTION THROUGH CAISSON POCKET DREDGE  
SECTION E-E  
SCALE 1:200

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES.
- ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM UNLESS NOTED OTHERWISE.
- |      |       |      |       |
|------|-------|------|-------|
| HAT  | +5.6m | LAT  | +0.1m |
| MHWS | +4.8m | MLWS | +0.7m |
| MHWN | +3.6m | MLWN | +1.9m |

A	23.11.18	LAT AMENDED	Redacte
REV	DATE	DETAILS	DRAWN CHK'D APP'D

AMENDMENTS

CLIENT

 **Comhairle nan Eilean Siar**

PROJECT

LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

**Wallace Stone**  
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DRAWING TITLE

PROPOSED ROCK MATTRESS  
SECTIONS

DRAWN	CHECKED	APPROVED
Redacted		
DATE	DATE	DATE
MAY 2018	OCT. 2018	OCT. 2018
SCALE (A1)	STAGE	
1:200	TENDER	
REVISION	A	
PROJECT No.	DRAWING No.	
1975	212	





- [illegible]

AMENDMENTS
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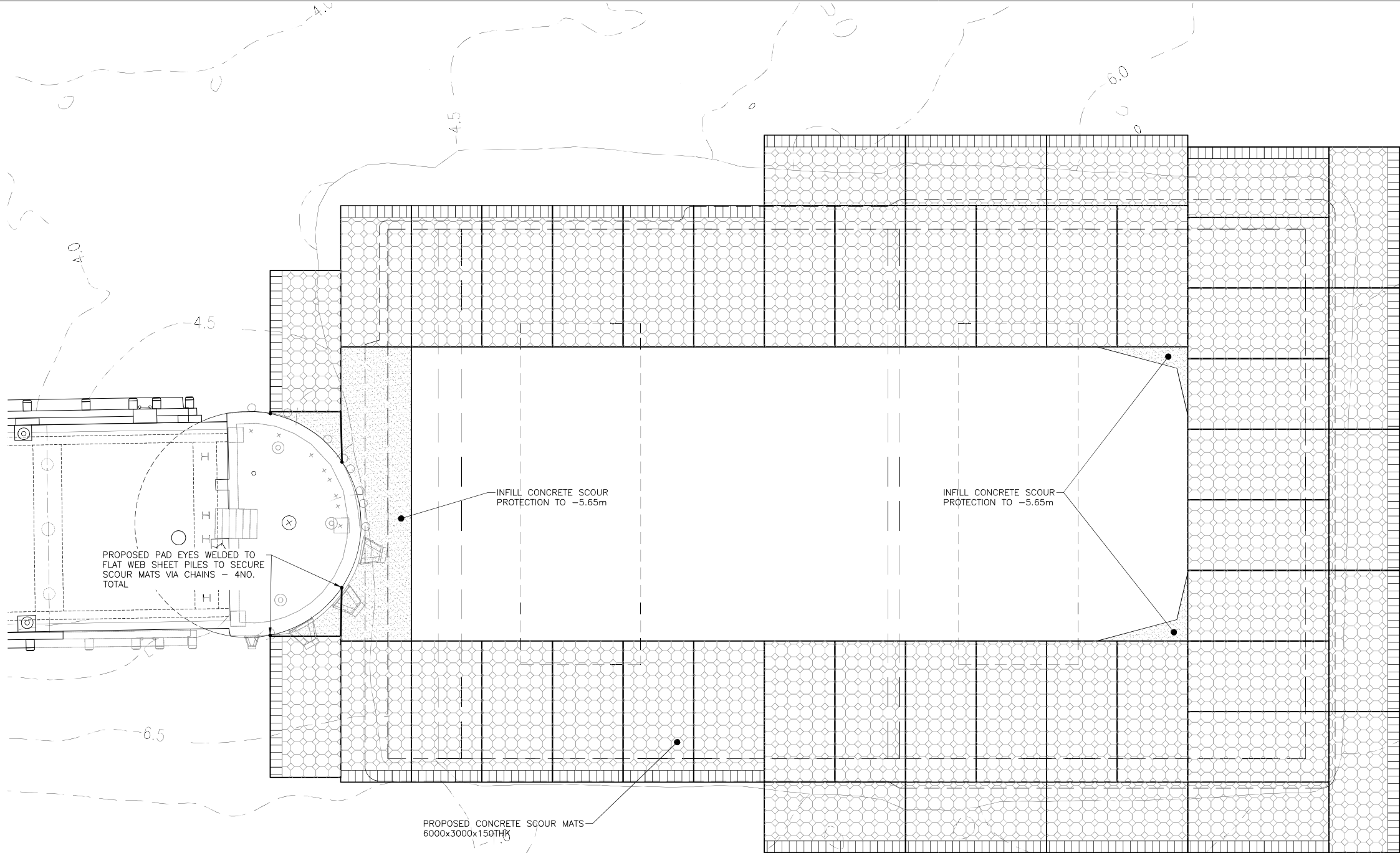
PROJECT  
LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

DRAWING TITLE
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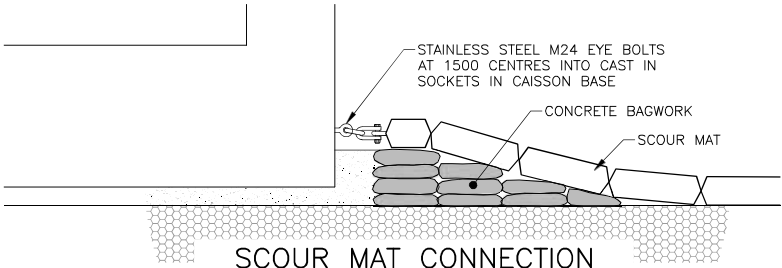
PROJECT No.	1075	DRAWING No.	005
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1975

225



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SCOUR MAT CONNECTION  
& CAISSON GROUTING DETAIL

SCALE 1:

SCOUR MATS	
UNIT TYPE	NO. OF UNITS
STANDARD	20
LONG EDGE	15
SHORT EDGE	15

- GENERAL NOTES
1. ALL DIMENSINS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  2. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.
  3. SCOUR MATS BY PIPESHIELD INTERNATIONAL LTD BLANKET MATTRESS.
  4. MATS TIED TOGETHER WITH GRADE 316 STAINLESS STEEL SHACKLES AT EACH CORNER AND NYLON CABLE TIES THROUGH ALL ADJOINING LOOPS BETWEEN CORNERS.
  5. CABLE TIES 12.5mm WITH MINIMUM TENSILE STRENGTH OF 100kg. SHACKLES SECURELY TIED WITH DURABLE CORRISION PROOF WIRE OR TIE.

A	01.11.18	MINOR AMENDMENTS	Redacte
REV	DATE	DETAILS	DRAWN CHK'D APP'D
AMENDMENTS			

CLIENT

 **Comhairle nan Eilean Siar**

PROJECT

LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

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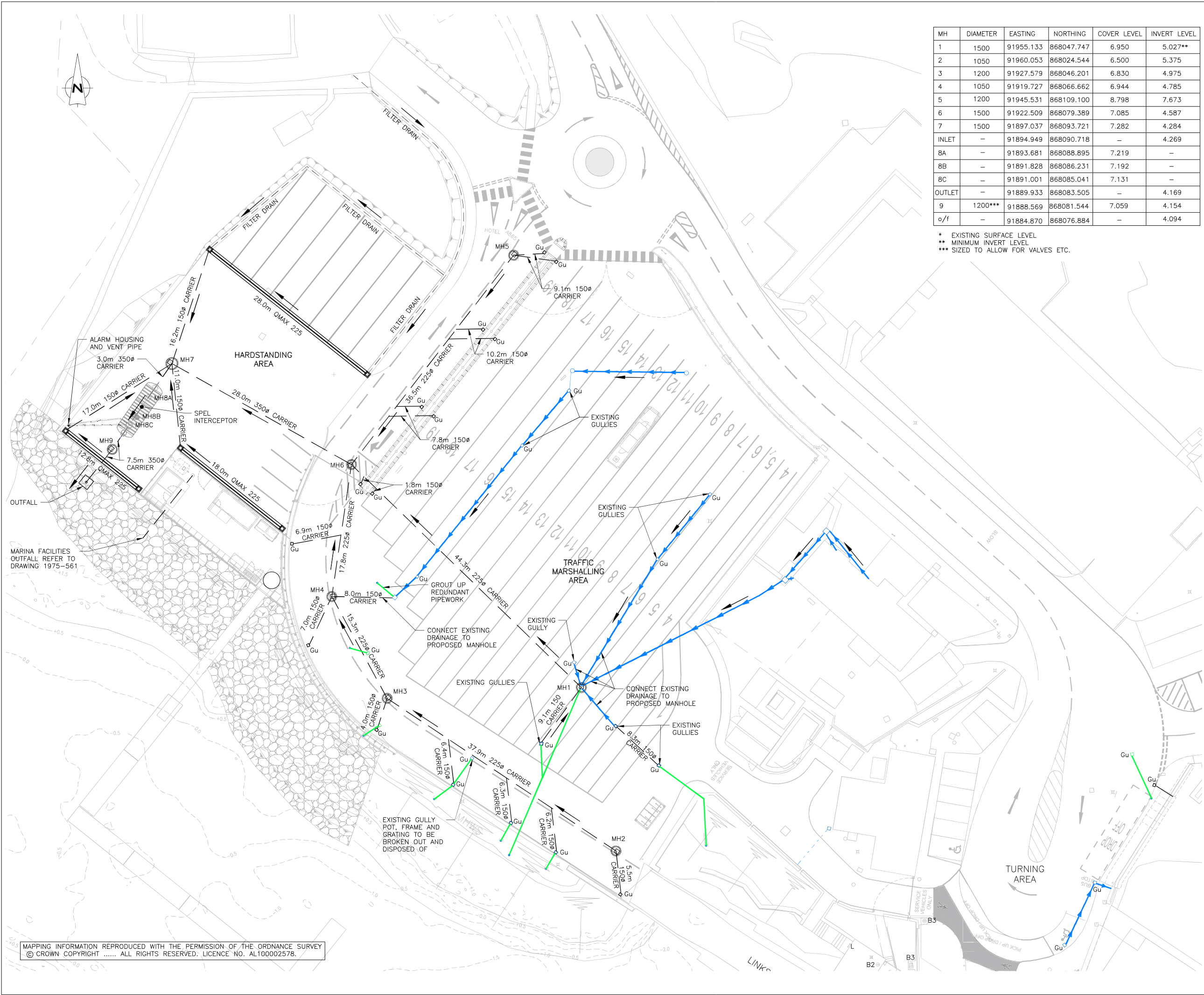
HEBRIDES  
01851 612454  
hebrides@wallacestone.co.uk

DRAWING TITLE

PROPOSED SCOUR MAT  
ARRANGEMENT

DRAWN	CHECKED	APPROVED
Redacted		
DATE	DATE	DATE
MARCH 2018	OCT. 2018	OCT. 2018
SCALE (A1)	STAGE	
1:100	TENDER	
REVISION	A	
PROJECT No.	DRAWING No.	
1975	227	





MH	DIAMETER	EASTING	NORTHING	COVER LEVEL	INVERT LEVEL
1	1500	91955.133	868047.747	6.950	5.027**
2	1050	91960.053	868024.544	6.500	5.375
3	1200	91927.579	868046.201	6.830	4.975
4	1050	91919.727	868066.662	6.944	4.785
5	1200	91945.531	868109.100	8.798	7.673
6	1500	91922.509	868079.389	7.085	4.587
7	1500	91897.037	868093.721	7.282	4.284
INLET	—	91894.949	868090.718	—	4.269
8A	—	91893.681	868088.895	7.219	—
8B	—	91891.828	868086.231	7.192	—
8C	—	91891.001	868085.041	7.131	—
OUTLET	—	91889.933	868083.505	—	4.169
9	1200***	91888.569	868081.544	7.059	4.154
o/f	—	91884.870	868076.884	—	4.094

\* EXISTING SURFACE LEVEL  
\*\* MINIMUM INVERT LEVEL  
\*\*\* SIZED TO ALLOW FOR VALVES ETC.

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM UNLESS NOTED OTHERWISE.
- ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.
- H.A.T. +5.6m LAT +0.1m  
M.H.W.S. +4.8m M.L.W.S. +0.7m  
M.H.W.N. +3.6m M.L.W.N. +1.9m
- ALL CARRIER PIPE WORK TO BE PLASTIC TWIN WALLED HDPE PIPE.
- ALL ACO PRODUCTS TO BE LAID STRICTLY IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.
- TIDE FLEX PRODUCTS TO BE FITTED STRICTLY IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- REUSE EXISTING GULLY COVERS AND FRAMES WHERE POSSIBLE.
- SEE DRAWINGS 1975/361–365 FOR DETAILS.
- ALL REDUNDANT PIPEWORK TO BE GROUTED UP.
- GULLY POTS AND FRAMES ASSOCIATED WITH REDUNDANT PIPEWORK TO BE BROKEN OUT. NEW POTS TO BE INSTALLED PER DETAIL SHOWN ON DRAWING 1975/362. COVERS AND FRAMES TO BE REUSED WHERE POSSIBLE.
- GULLY COVERS AND FRAMES ASSOCIATED WITH EXISTING DRAINAGE WHICH IS TO REMAIN SHALL BE ADJUSTED AS NECESSARY.

LEGEND:

- EXISTING DRAINAGE RETAINED
- EXISTING DRAINAGE REDUNDANT
- PROPOSED DRAINAGE
- EXISTING GULLY RETAINED
- EXISTING GULLY REDUNDANT
- PROPOSED GULLY

B	APR 19	MINOR AMENDMENTS	Redacted
A	NOV 18	LAT AMENDED	
REV	DATE	DETAILS	DRAWN   CHK'D   APP'D

AMENDMENTS

CLIENT **Comhairle nan Eilean Siar**

PROJECT  
LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

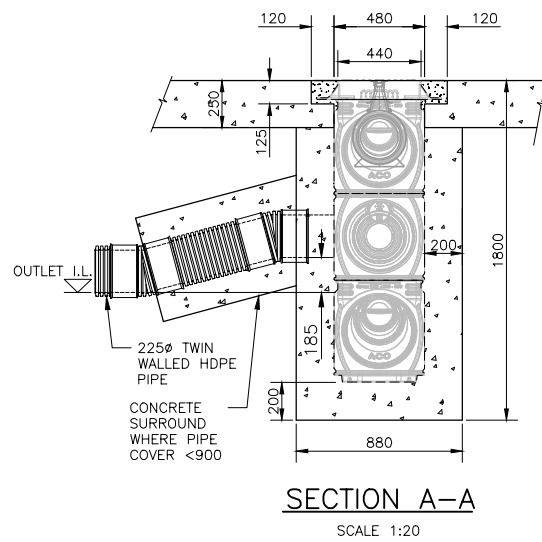
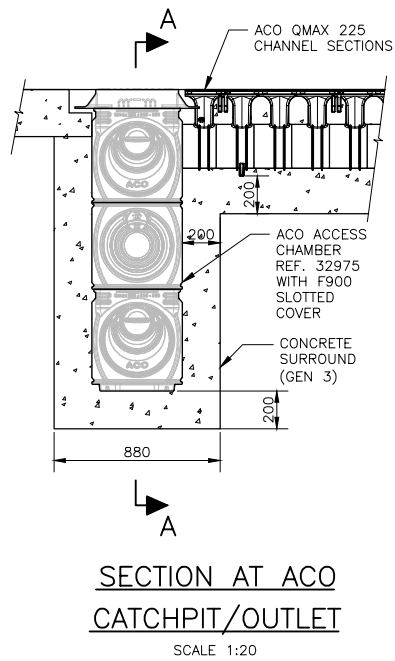
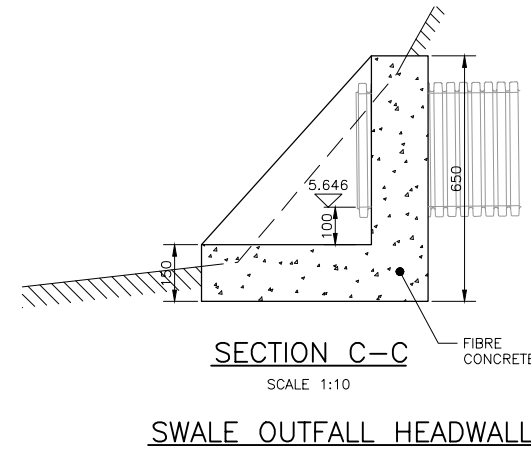
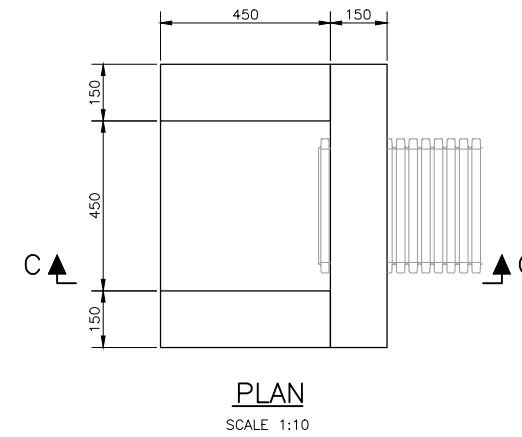
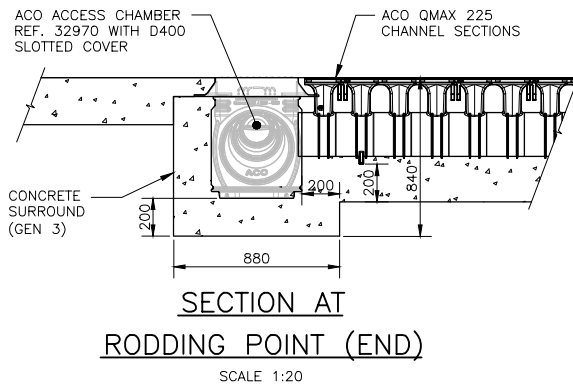
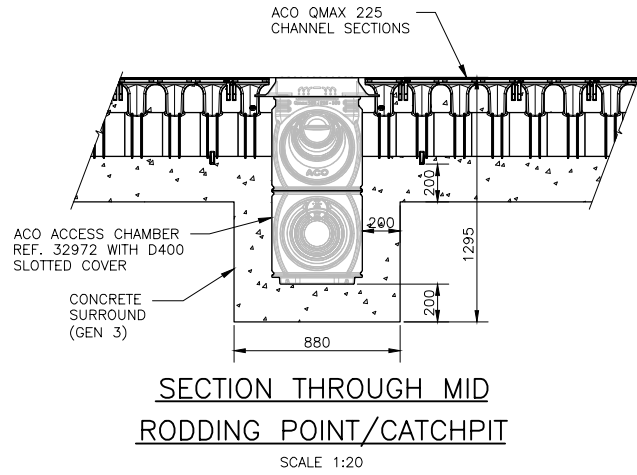
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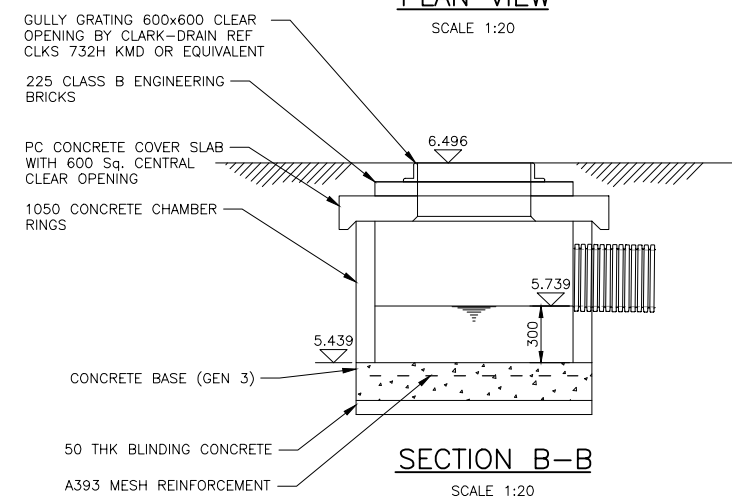
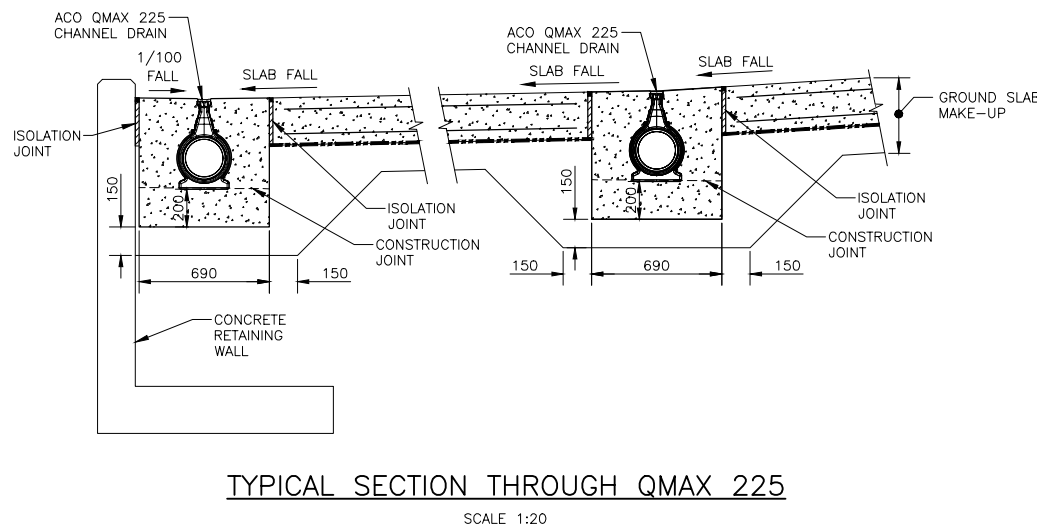
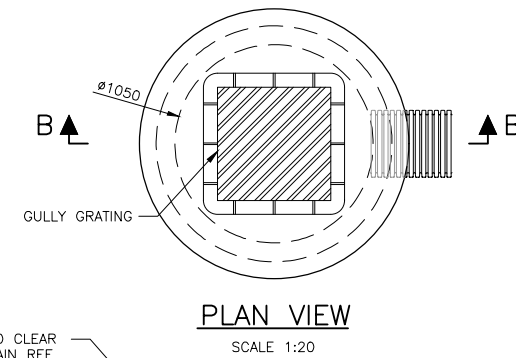
HEBRIDES 01851 612454 hebrides@wallacestone.co.uk

DRAWING TITLE  
MARSHALLING AREA  
PROPOSED DRAINAGE  
LAYOUT

DRAWN	Redacted	CHECKED	APPROVED
DATE	28.05.18	DATE	17.10.18
SCALE (A1)	1:250	STAGE	TENDER
REVISION	A B		
PROJECT No.	1975	DRAWING No.	351



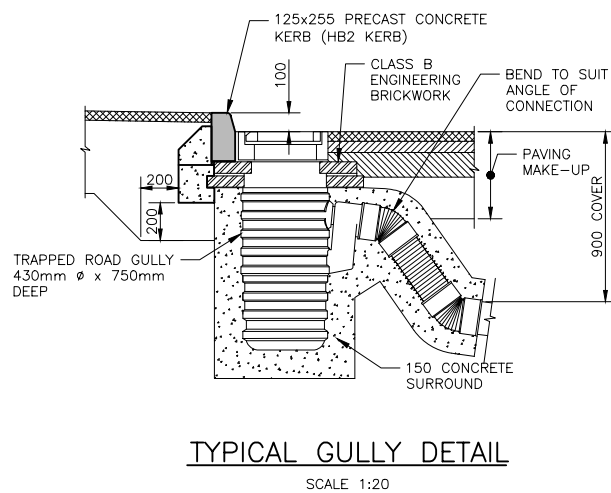
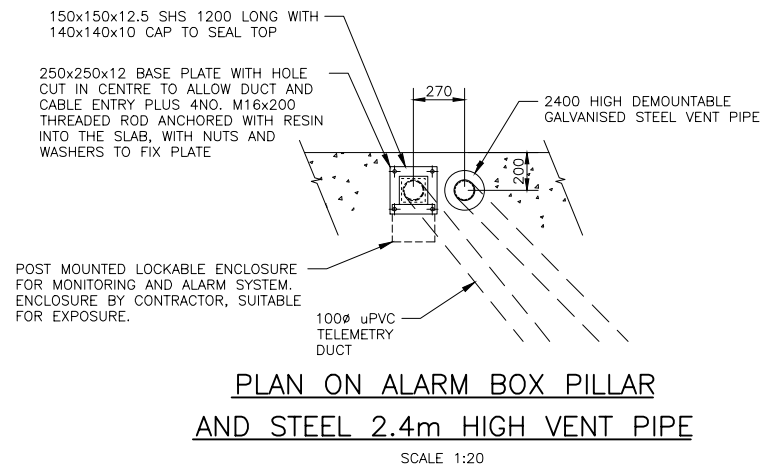
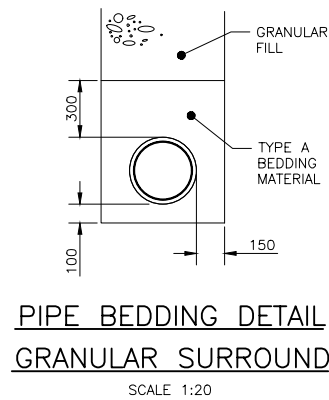
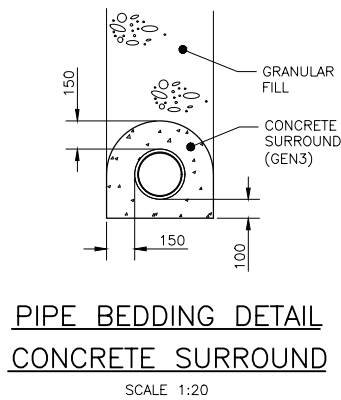
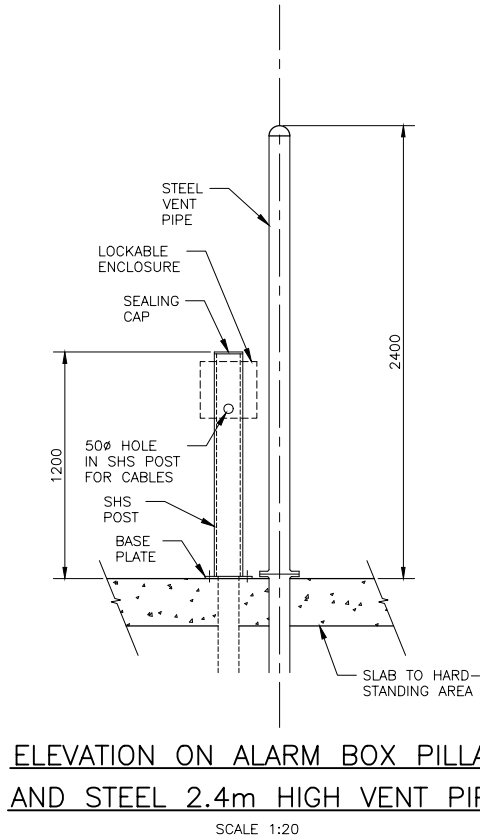
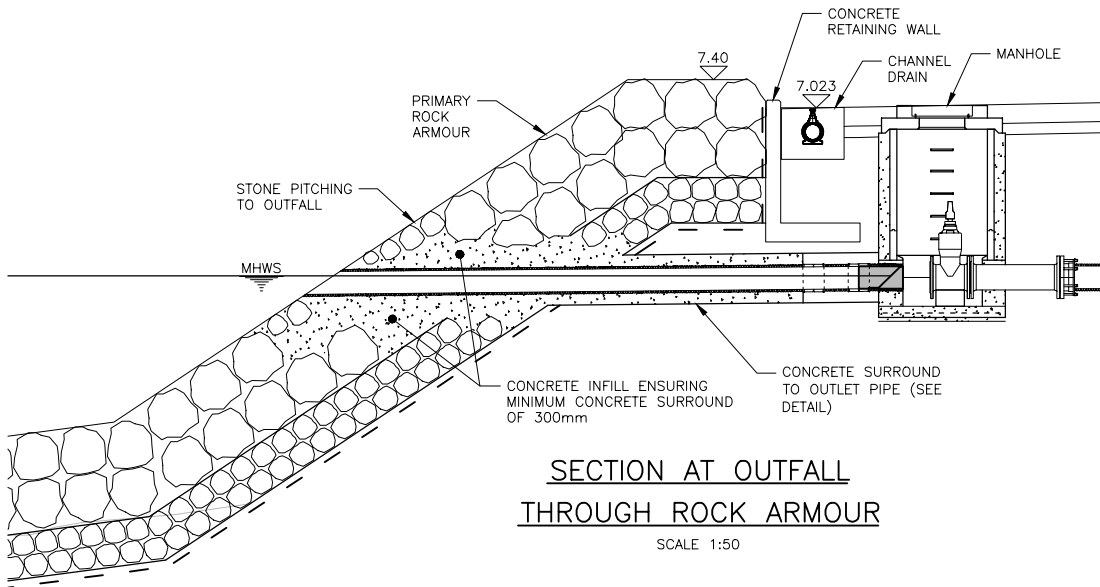
ACO QMAX 225 CHANNEL AND OUTLET



SWALE CATCHPIT DETAILS

GENERAL NOTES									
1. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM UNLESS NOTED OTHERWISE.									
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.									
3. REFER TO DRAWING 1975/351 FOR THE DRAINAGE LAYOUT.									
4. REFER TO DRAWING 1975/362–365 FOR ADDITIONAL DRAINAGE DETAILS.									
5. COVERS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS/INSTRUCTIONS. REBATES TO BE FILLED WITH 40/50 CONCRETE, 10mm COARSE AGGREGATE.									
6. D400 GULLY COVERS BEDDED ON 25mm THICK MORTAR BED.									





- GENERAL NOTES
1. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM UNLESS NOTED OTHERWISE.
  2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  3. REFER TO DRAWING 1975/351 FOR DRAINAGE LAYOUT AND INVERT LEVELS.
  4. REFER TO DRAWING 1975/361 AND 363-365 FOR ADDITIONAL DRAINAGE DETAILS.
  5. COVERS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS/INSTRUCTIONS. REBATES TO BE FILLED WITH 40/50 CONCRETE, 10mm COARSE AGGREGATE.
  6. D400 GULLY COVERS BEDDED ON 25mm THICK MORTAR BED.

REV	DATE	DETAILS	DRAWN	CHK'D	APP'D

AMENDMENTS

CLIENT  
 **Comhairle nan Eilean Siar**

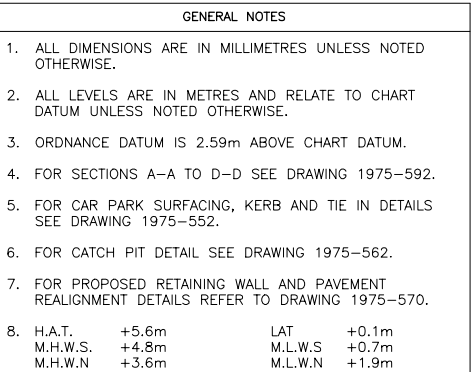
PROJECT  
**LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS**

**Wallace Stone**  
CONSULTING CIVIL ENGINEERS  
GLASGOW 0141 554 8233 DINGWALL 01349 866775  
glasgow@wallacestone.co.uk dingwall@wallacestone.co.uk  
HEBRIDES 01851 612454  
hebrides@wallacestone.co.uk

DRAWING TITLE

**DRAINAGE DETAILS  
(SHEET 2 OF 3)**

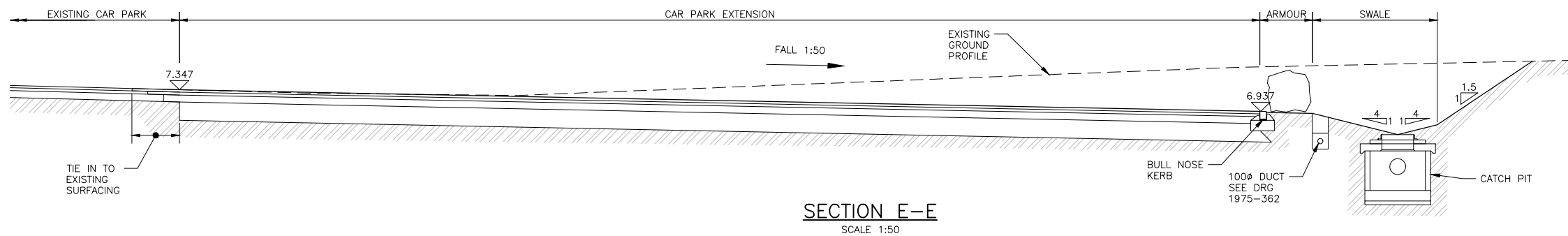
DRAWN	CHECKED	APPROVED
Redacted		
DATE	DATE	DATE
JULY 2018	17.10.18	17.10.18
SCALE (A1)	STAGE	
AS SHOWN	TENDER	
REVISION		
PROJECT No.	DRAWING No.	
1975	362	



LEGEND

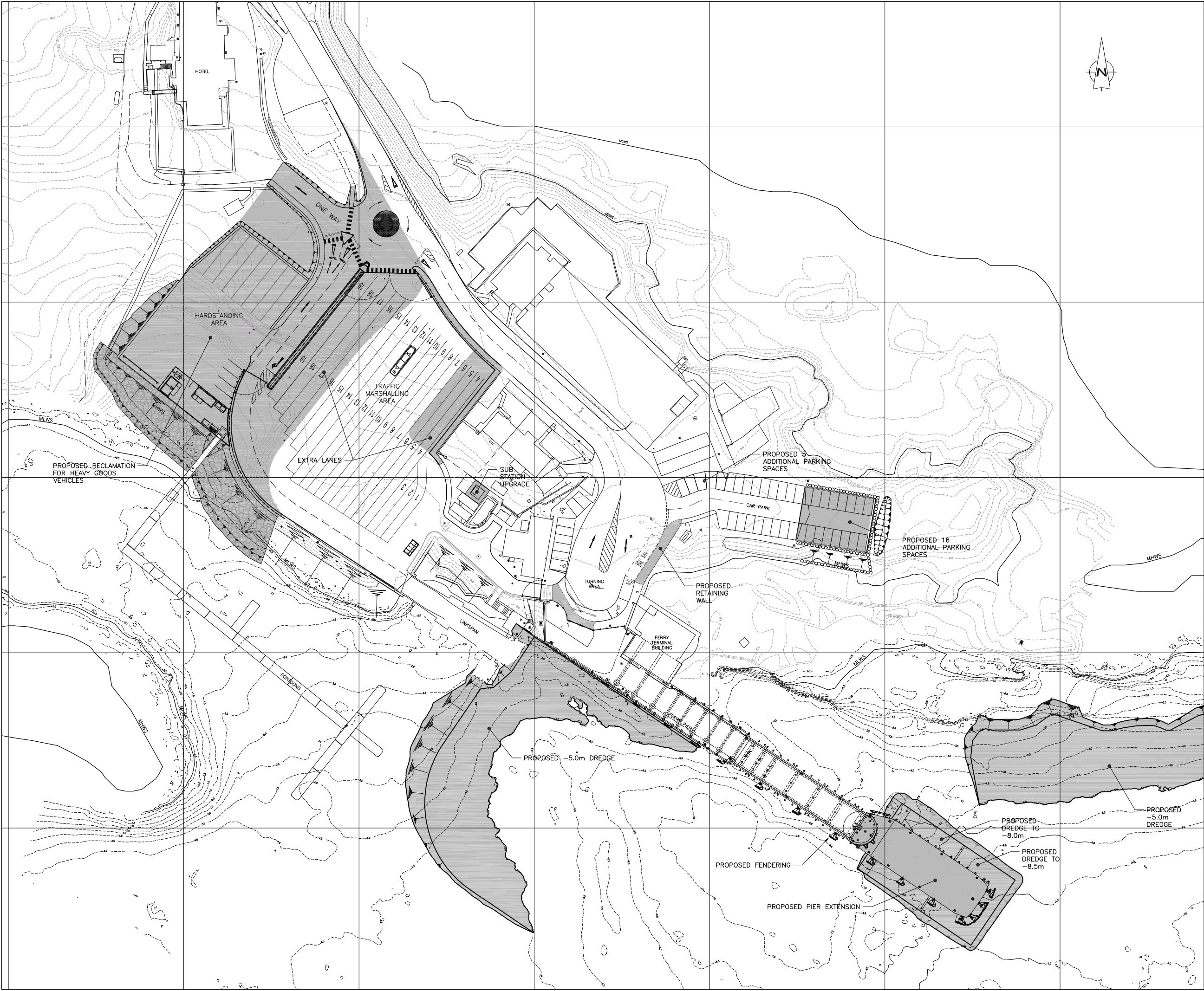
+7.852 EXISTING LEVEL

7.852 PROPOSED LEVE



DRAWING TITLE												
EAST CAR PARK EXTENSION PROPOSED LAYOUT AND SECTION												
DRAWN <b>Redacted</b>			CHECKED				APPROVED					
DATE 22.06.18			DATE 17.10.18				DATE 17.10.18					
SCALE (A1) AS SHOWN			STAGE				TENDER					
REVISION		A										
PROJECT No.						DRAWING No.						
1975						591						





GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

2. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.

3. ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.

4. H.A.T. +5.6m LAT +0.1m  
M.H.W.S. +4.8m M.L.W.S. +0.7m  
M.H.W.N. +3.6m M.L.W.N. +1.9m

5. FOR EXISTING PIER SHOWING ROCKHEAD REFER TO DRAWING 1975/012

REV

DATE

DETAILS

DRAWN

CHK'D

APP'D

B

21.03.19

REVISED ROAD LAYOUT AT TERMINAL LAYOUT

Redacted

A

09.04.18

GENERAL AMENDMENTS

AMENDMENTS

CLIENT

Comhairle nan Eilean Siar

PROJECT

LOCHMADDY FERRY TERMINAL UPGRADE WORKS

Wallace Stone

CONSULTING CIVIL ENGINEERS

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DRAWING TITLE

PROPOSED SITE LAYOUT

DRAWN

Redacted

CHECKED

APPROVED

DATE

08.05.17

DATE

09.05.17

DATE

09.05.17

SCALE (A1)

1:500

STAGE

CONSENTS

REVISION

A

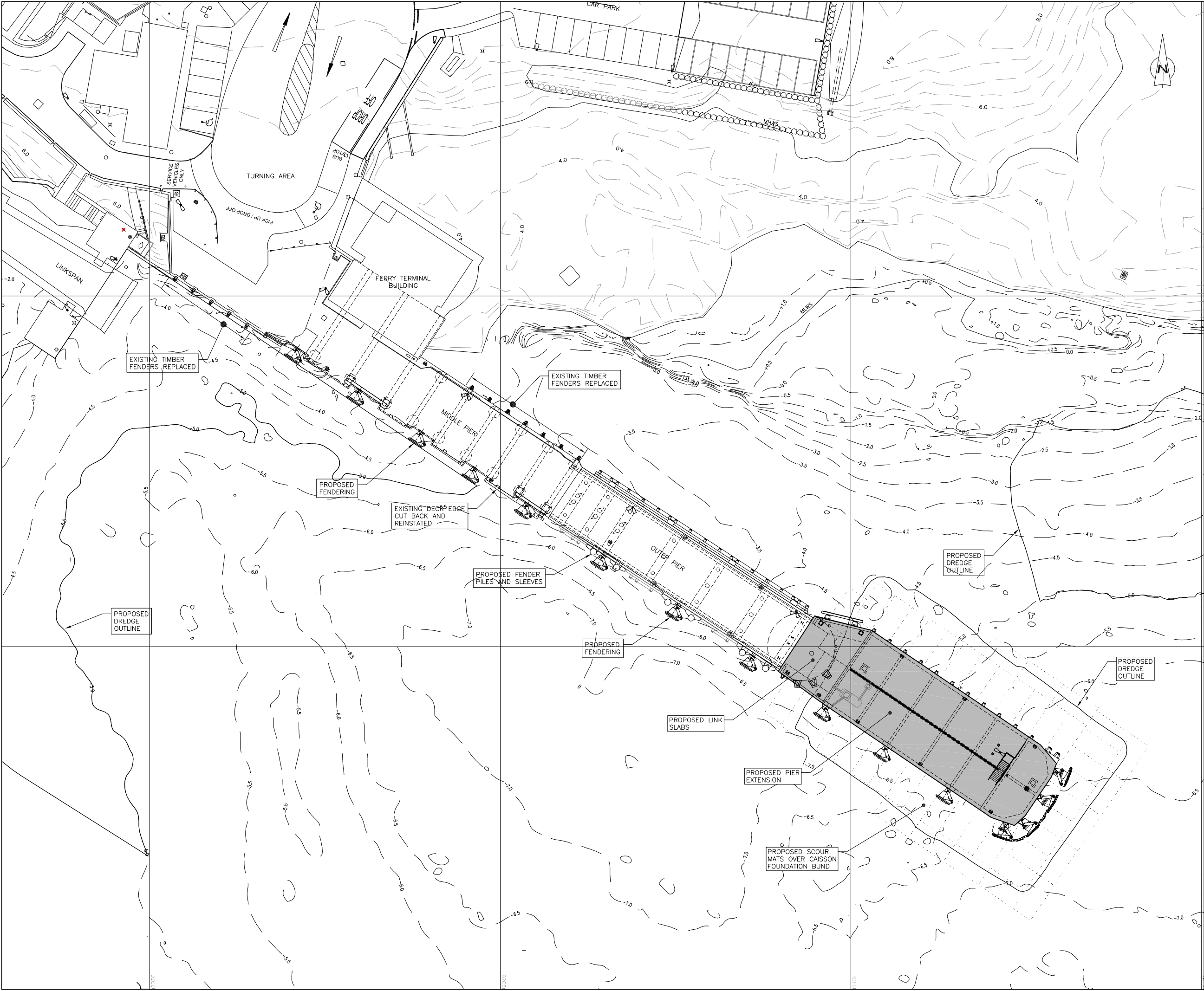
B

PROJECT No.

1975

DRAWING No.

901

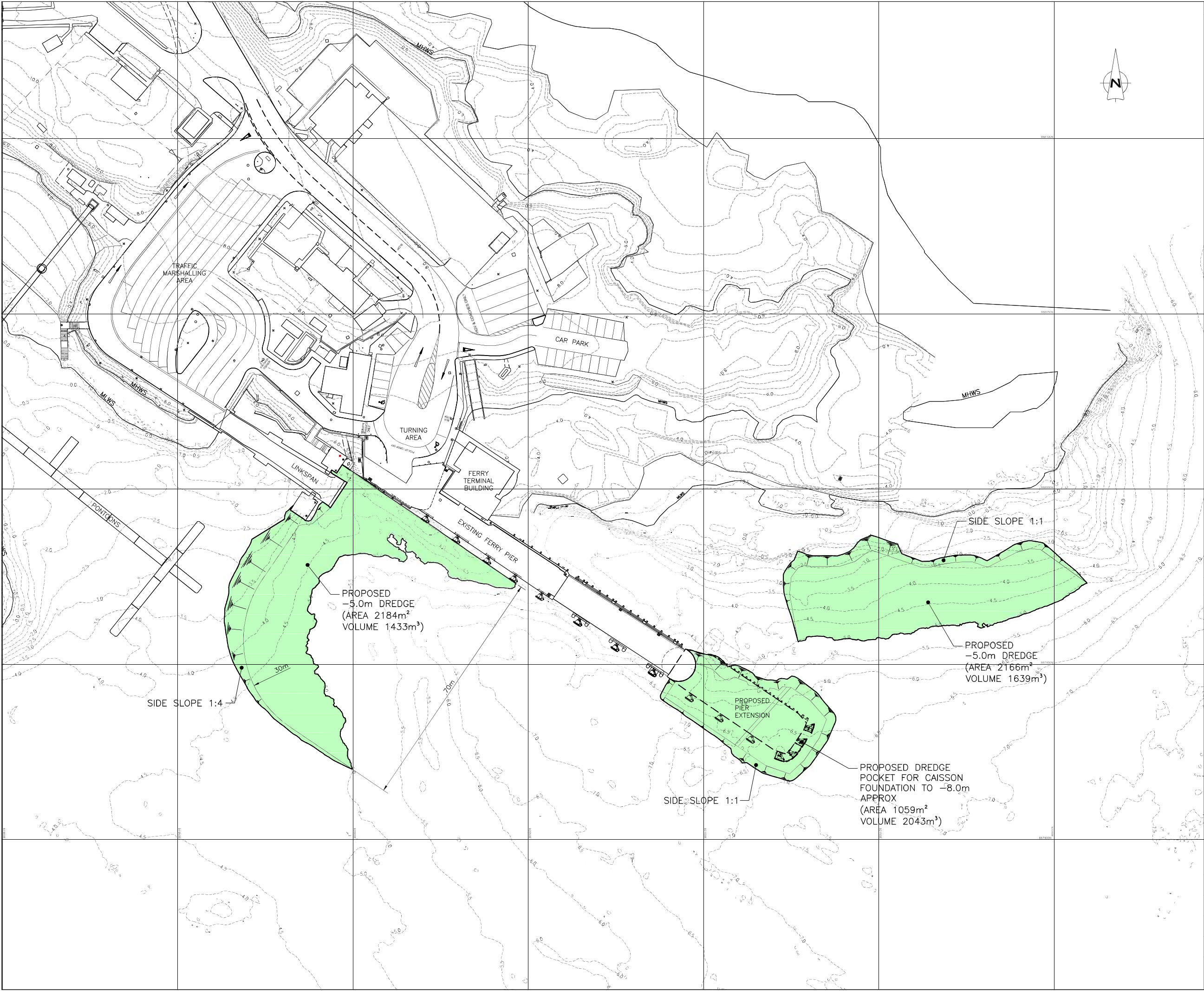


GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.
- ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.
- H.A.T. +5.6m LAT +0.1m  
M.H.W.S. +4.8m M.L.W.S. +0.7m  
M.H.W.N. +3.6m M.L.W.N. +1.9m
- FOR EXISTING PIER SHOWING ROCKHEAD REFER TO DRAWING 1975/012

B	14.03.19	MINOR AMENDMENTS	Redacted
A	19.04.18	PIER EXTENSION REPOSITIONED	
REV	DATE	DETAILS	DRAWN CHK'D APP'D
AMENDMENTS			
CLIENT <b>Comhairle nan Eilean Siar</b>			
PROJECT LOCHMADDY FERRY TERMINAL UPGRADE WORKS			
<div><div><b>Wallace Stone</b> CONSULTING CIVIL ENGINEERS</div><div>GLASGOW 0141 554 8233 glasgow@wallacestone.co.uk</div><div>DINGWALL 01349 866775 dingwall@wallacestone.co.uk</div><div>HEBRIDES 01851 612454 hebrides@wallacestone.co.uk</div></div>			
DRAWING TITLE			
PROPOSED PIER WORKS			
DRAWN <b>Redacted</b>		CHECKED	APPROVED
DATE 08.05.17	DATE 09.05.17	DATE 09.05.17	
SCALE (A1) 1:250		STAGE CONSENTS	
REVISION A B			
PROJECT No. 1975		DRAWING No. 902	





GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

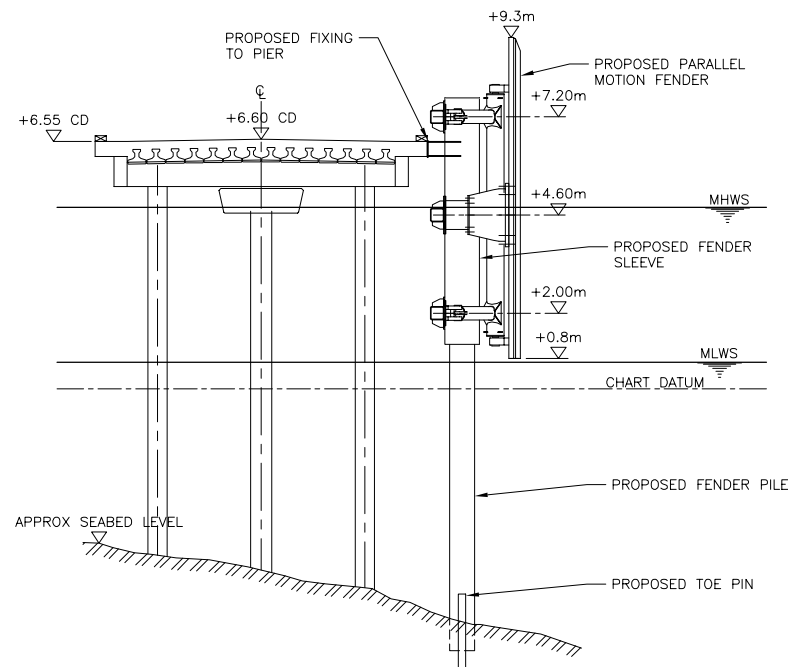
2. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.

3. ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.

4. H.A.T. +5.6m LAT +0.1m  
M.H.W.S. +4.8m M.L.W.S. +0.7m  
M.H.W.N. +3.6m M.L.W.N. +1.9m

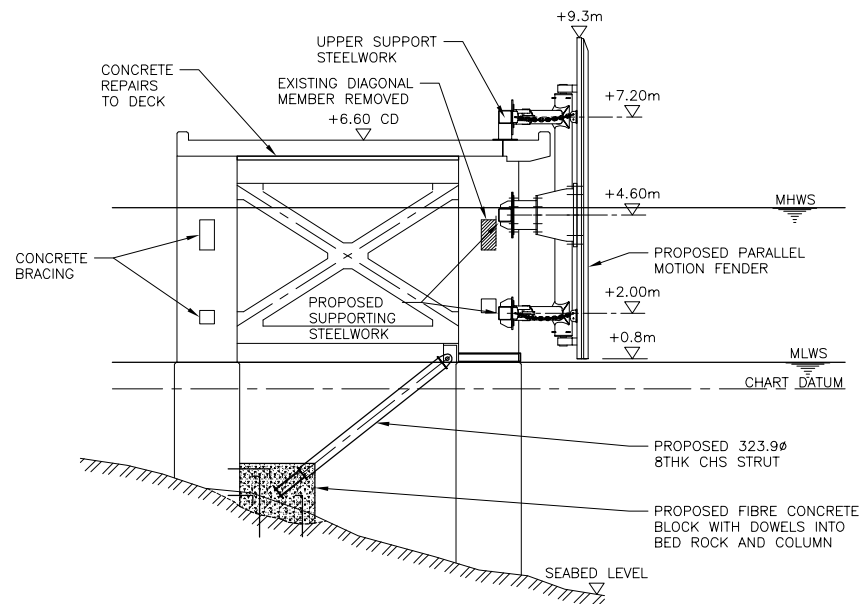
5. FOR EXISTING PIER SHOWING ROCKHEAD REFER TO DRAWING 1975/012

B	15.04.19	DRAWING SHEET UPDATED	Redacted
A	19.04.18	DREDGE AREAS AMENDED	
REV	DATE	DETAILS	DRAWN CHK'D APP'D
AMENDMENTS			
CLIENT			
<div><div></div><div>Comhairle nan Eilean Siar</div></div>			
PROJECT			
LOCHMADDY FERRY TERMINAL UPGRADE WORKS			
<div><div><div>Wallace Stone</div><div>CONSULTING CIVIL ENGINEERS</div></div><div><div>GLASGOW 0141 554 8233 glasgow@wallacestone.co.uk</div><div>DINGWALL 01349 866775 dingwall@wallacestone.co.uk</div><div>HEBRIDES 01851 612454 hebrides@wallacestone.co.uk</div></div></div>			
DRAWING TITLE			
PROPOSED DREDGE LAYOUT			
DRAWN		CHECKED	APPROVED
Redacted			
DATE	DATE	DATE	
08.05.17	09.05.17	09.05.17	
SCALE (A1) 1:500		STAGE INFORMATION	
REVISION			
A B			
PROJECT No.		DRAWING No.	
1975		903	



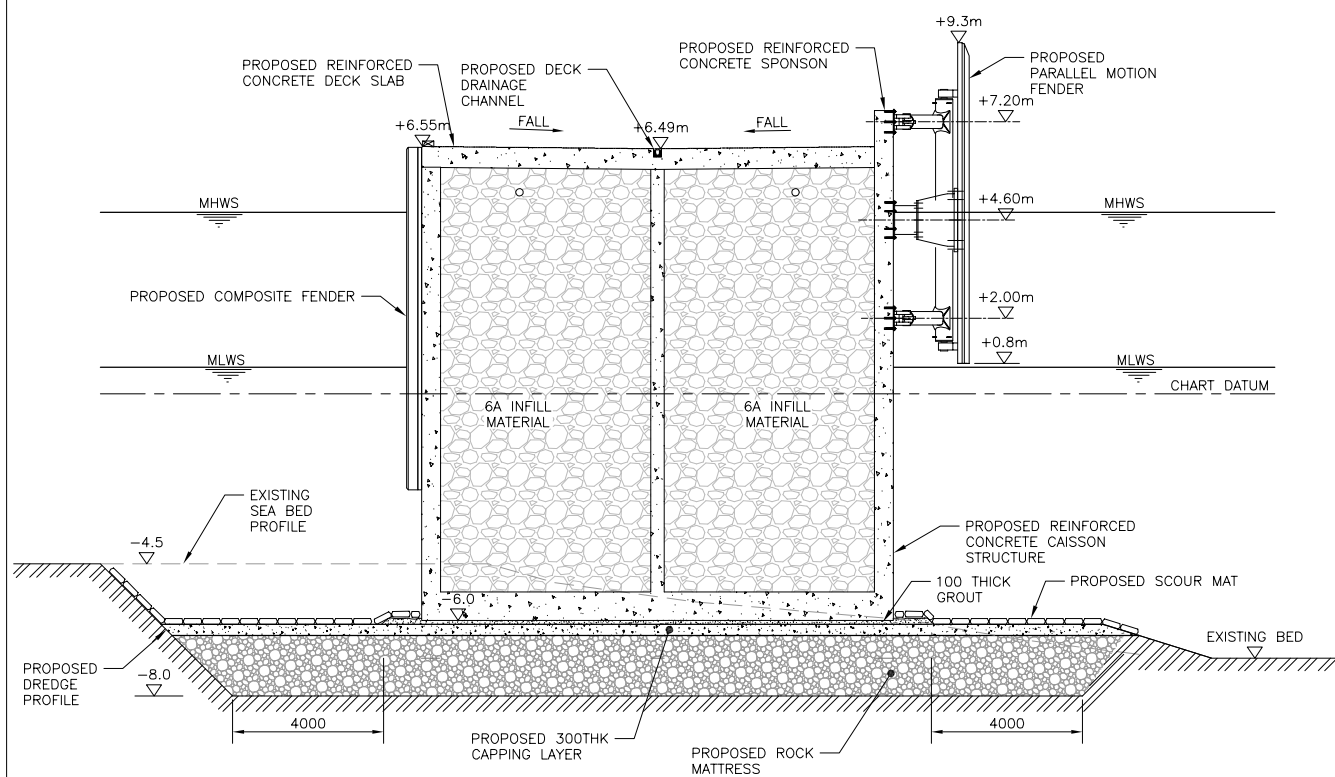
PROPOSED FENDER REPLACEMENT  
AT EXISTING OUTER PIER SECTION

SCALE 1:100



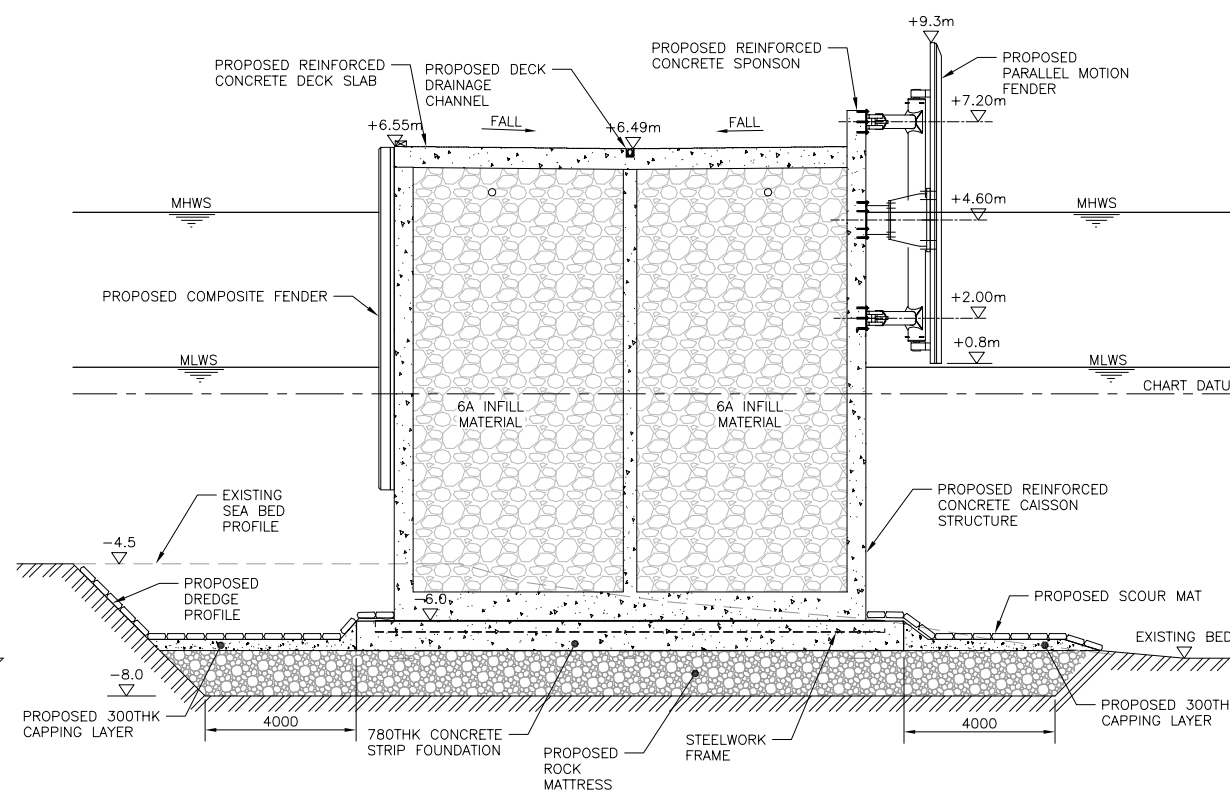
PROPOSED FENDER REPLACEMENT  
AT EXISTING MIDDLE PIER SECTION

SCALE 1:100



TYPICAL CROSS SECTION THROUGH  
PROPOSED CAISSON EXTENSION

SCALE 1:100



CROSS SECTION THROUGH PROPOSED CAISSON  
EXTENSION AT CONCRETE STRIP FOUNDATION

SCALE 1:100

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLES NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.
3. ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.
4. H.A.T. +5.6m M.L.W.N +1.9m  
M.H.W.S. +4.8m M.L.W.S +0.7m  
M.H.W.N. +3.6m LAT +0.1m
5. FOR CAISSON EXTENSION SEE DRAWING 1975-902

B 13.03.19 MINOR REVISIONS Redacted

A 19.04.18 GENERAL FENDER UPDATES

REV	DATE	DETAILS	DRAWN	CHK'D	APP'D

AMENDMENTS

CLIENT



Comhairle nan Eilean Slar

PROJECT

LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

**Wallace Stone**  
CONSULTING CIVIL ENGINEERS

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HEBRIDES 01851 612454  
hebrides@wallacestone.co.uk

DRAWING TITLE

PROPOSED PIER WORKS  
CROSS SECTIONS

DRAWN	CHECKED	APPROVED
Redacted		

DATE	DATE	DATE
08.05.17	09.05.17	09.05.17

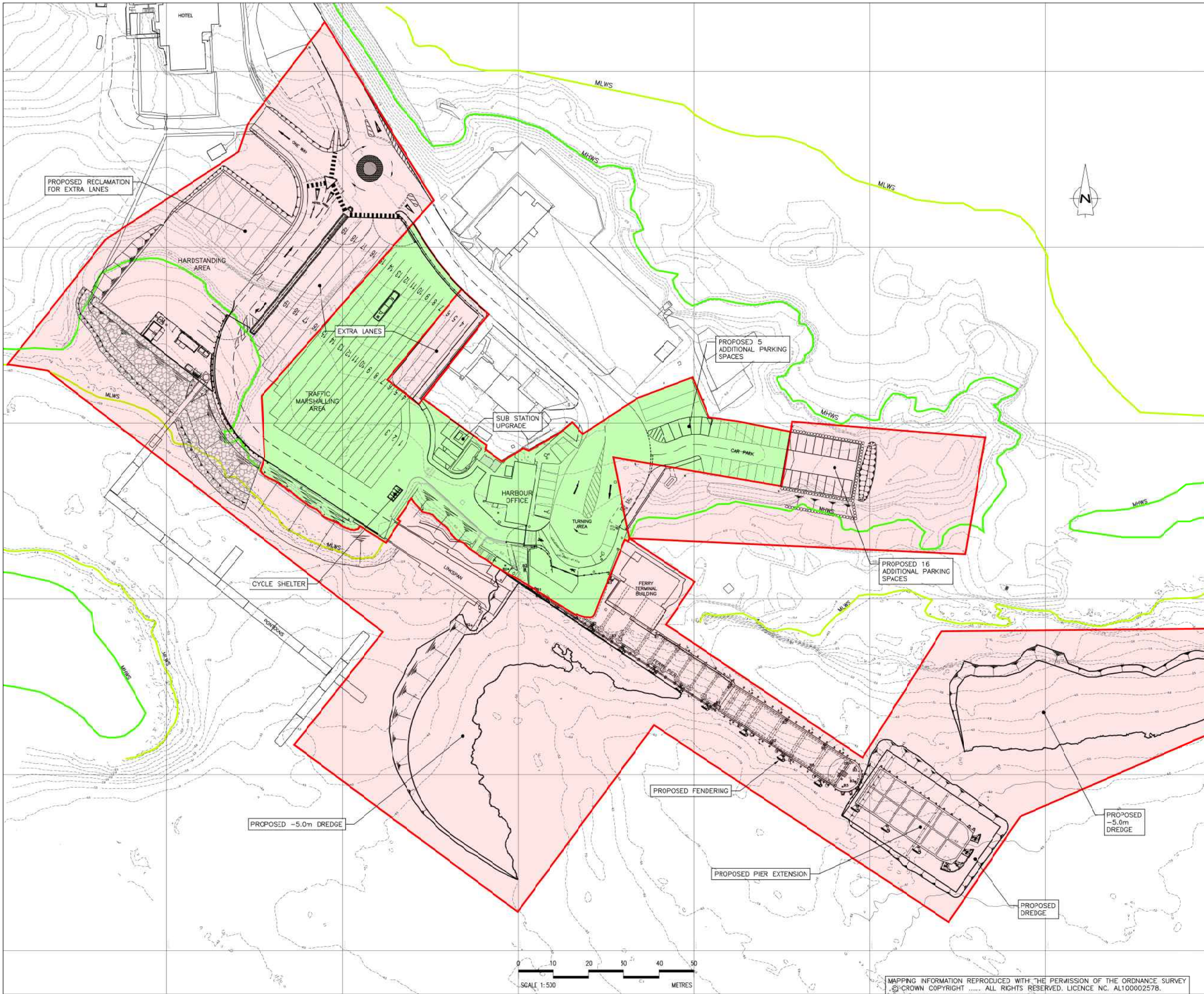
SCALE (A1)	AS SHOWN	STAGE





CONSENTS

REVISION	A	B							

PROJECT No.	DRAWING No.
1975	905





GENERAL NOTES			
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.			
2. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.			
3. ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.			
4. H.A.T. +5.6m		LAT	+0.1m
M.H.W.S. +4.8m		M.L.W.S.	+0.7m
M.H.W.N. +3.6m		M.L.W.N.	+1.9m
<u>LEGEND</u>			
		MHWS	
		MLWS	
		WORKS AREA COVERED BY HRO	
		WORKS AREA COVERED BY MARINE LICENSE/PLANNING CONSENT	
F	25.03.19	ROUNDBABOUT REVISED	Redacted
E	13.03.19	BOUNDARY LINES REVISED	Redacted
D	13.03.19	BOUNDARY LINES REVISED	
C	07.06.19	BOUNDARY LINES REVISED	
B	19.04.18	PROPOSED WORKS UPDA'ED	
A	09.06.17	BOUNDARY LINES AMENDED	
REV	DATE	DETAILS	DRAWN (CHK'D) APP'D
AMENDMENTS			

**Comhairle nan Eilean Siar**

PROJECT

LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

**Wallace Stone**  
CONSULTING CIVIL ENGINEERS

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dingwall@wallacestone.co.uk

HEBRIDES  
01851 612454  
hebrides@wallacestone.co.uk

DRAWING TITLE

PROPOSED CONSENTS  
SITE BOUNDARY

DRAWN  
Redacted

CHECKED

APPROVED

DATE  
07.06.17

DATE  
07.06.17

DATE  
07.06.17

SCALE  
(A1) 1:500

STAGE  
CONSENT

REVISION  
A B C D E F

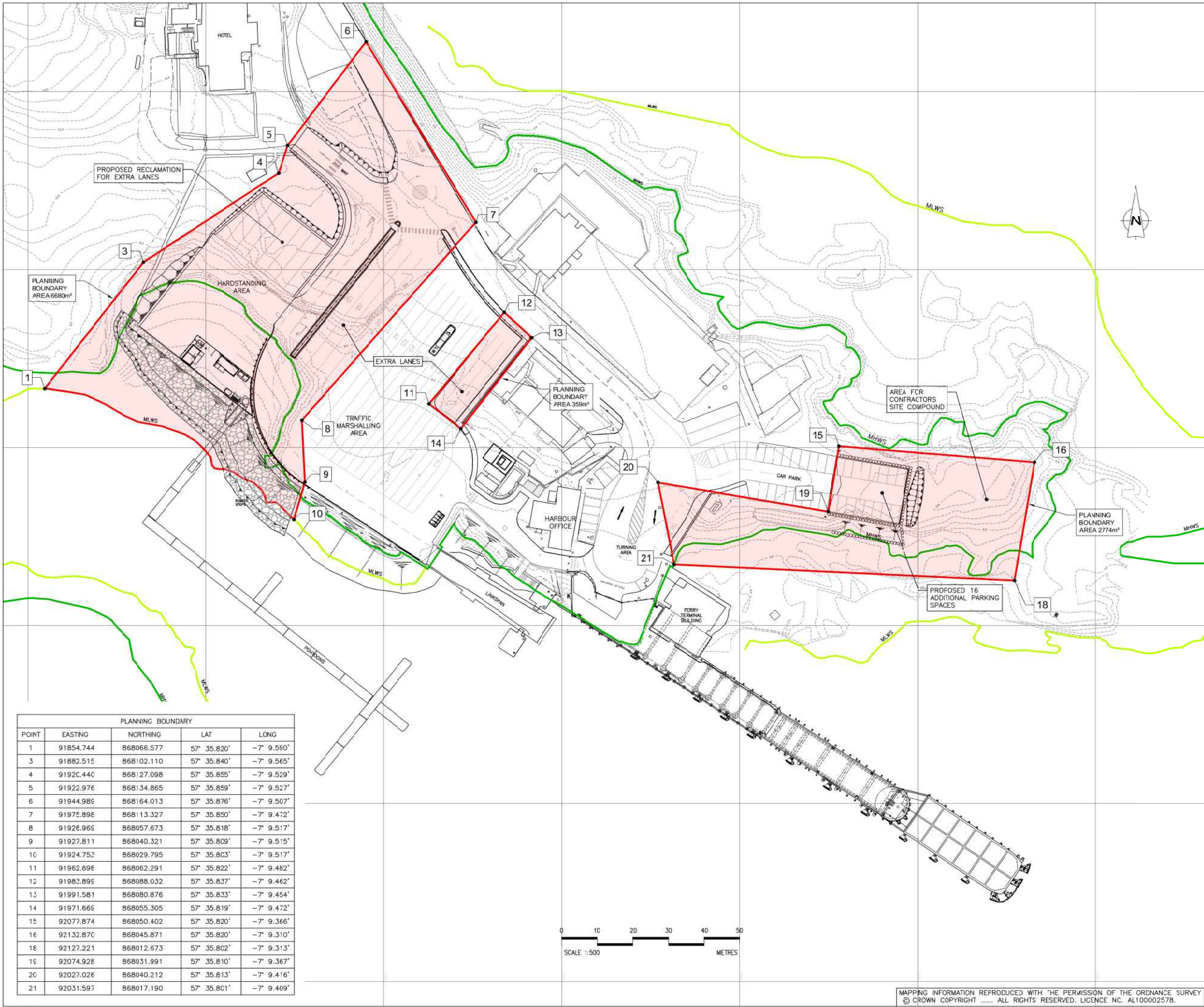
PROJECT No.  
1975

DRAWING No.  
907









GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.
- ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.
- H.A.T. +5.6m  
M.H.W.S. +4.8m  
M.H.W.N. +3.6m
- LAT +0.1m  
M.L.W.S. +0.7m  
M.L.W.N. +1.9m

LEGEND

MHWS

MLWS

PLANNING BOUNDARY  
TOTAL AREA 9,813m<sup>2</sup>

A

11.03.19

MINOR AMENDMENTS

Redacted

REV

DATE

DETAILS

DRAWN CHK'D APP'D

AMENDMENTS

PLANNING BOUNDARY				
POINT	EASTING	NORTHING	LAT	LONG
1	91854.744	868066.577	57° 35.820'	-7° 9.590'
3	91882.515	868102.110	57° 35.840'	-7° 9.565'
4	91920.440	868127.098	57° 35.855'	-7° 9.529'
5	91922.976	868134.865	57° 35.859'	-7° 9.527'
6	91944.988	868164.013	57° 35.876'	-7° 9.507'
7	91975.898	868113.327	57° 35.850'	-7° 9.472'
8	91926.968	868057.673	57° 35.818'	-7° 9.517'
9	91927.811	868040.321	57° 35.809'	-7° 9.515'
10	91924.753	868029.795	57° 35.803'	-7° 9.517'
11	91962.698	868062.291	57° 35.822'	-7° 9.482'
12	91983.898	868088.032	57° 35.837'	-7° 9.462'
13	91991.581	868080.876	57° 35.833'	-7° 9.454'
14	91971.668	868055.305	57° 35.819'	-7° 9.472'
15	92077.874	868050.402	57° 35.820'	-7° 9.366'
16	92132.870	868045.871	57° 35.820'	-7° 9.310'
18	92127.221	868012.673	57° 35.802'	-7° 9.313'
19	92074.926	868031.991	57° 35.810'	-7° 9.367'
20	92027.026	868040.212	57° 35.813'	-7° 9.416'
21	92031.597	868017.190	57° 35.801'	-7° 9.409'

Comhairle nan Eilean Siar

PROJECT

LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

CONSULTING CIVIL ENGINEERS

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DRAWING TITLE

PLANNING CONSENT

DRAWN

Redacted

CHECKED

APPROVED

DATE

06.03.19

DATE

08.03.19

DATE

08.03.19

SCALE (A1)

1:500

STAGE

CONSENT

REVISION

A

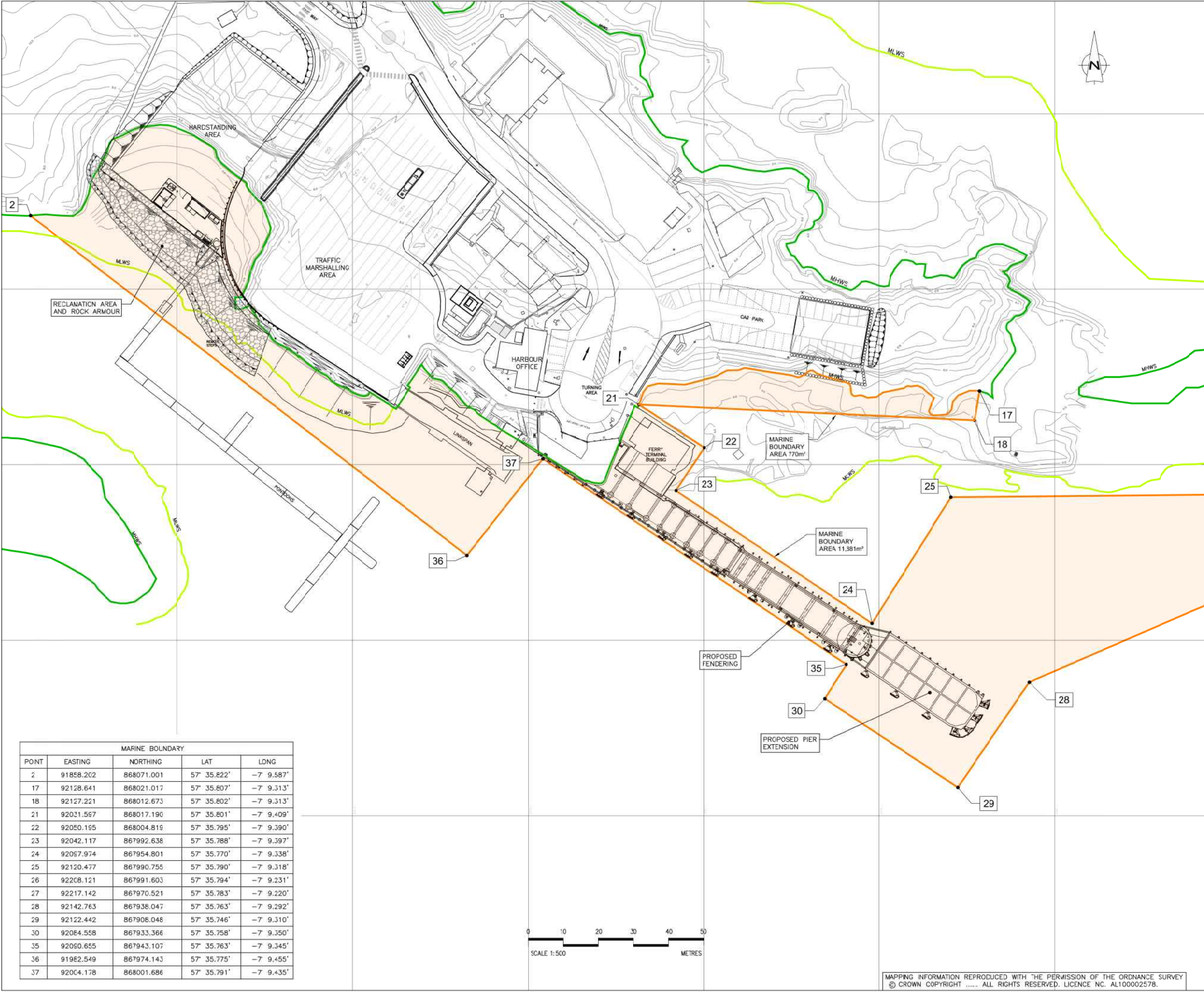
PROJECT No.

1975

DRAWING No.

935





GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.
- ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.
- |          |       |         |       |
|----------|-------|---------|-------|
| H.A.T.   | +5.6m | LAT     | +0.1m |
| M.H.W.S. | +4.8m | M.L.W.S | +0.7m |
| M.H.W.N  | +3.6m | M.L.W.N | +1.9m |

LEGEND

	MHWS
	MLWS
	PROPOSED MARINE LICENSE BOUNDARY TOTAL AREA 12,651m²

A	11.03.19	MINOR AMENDMENTS	Redacted
REV	DATE	DETAILS	DRAWN CHK'D APP'D
AMENDMENTS			

MARINE BOUNDARY				
PONT	EASTING	NORTHING	LAT	LONG
2	91858.202	868071.001	57° 35.822'	-7° 9.587'
17	92128.641	868021.017	57° 35.807'	-7° 9.313'
18	92127.221	868012.673	57° 35.802'	-7° 9.313'
21	92031.587	868017.190	57° 35.801'	-7° 9.409'
22	92050.195	868004.819	57° 35.795'	-7° 9.390'
23	92042.117	867992.638	57° 35.788'	-7° 9.397'
24	92087.974	867954.801	57° 35.770'	-7° 9.338'
25	92120.477	867990.755	57° 35.790'	-7° 9.318'
26	92208.121	867991.603	57° 35.794'	-7° 9.231'
27	92217.142	867970.521	57° 35.783'	-7° 9.220'
28	92142.763	867938.047	57° 35.763'	-7° 9.292'
29	92122.442	867908.048	57° 35.746'	-7° 9.310'
30	92084.558	867933.366	57° 35.758'	-7° 9.350'
35	92090.655	867943.107	57° 35.763'	-7° 9.345'
36	91982.549	867974.143	57° 35.775'	-7° 9.455'
37	92004.178	868001.686	57° 35.791'	-7° 9.435'

CLIENT **Comhairle nan Eilean Siar**

PROJECT **LOCHMADDY FERRY TERMINAL UPGRADE WORKS**

**Wallace Stone**  
CONSULTING CIVIL ENGINEERS

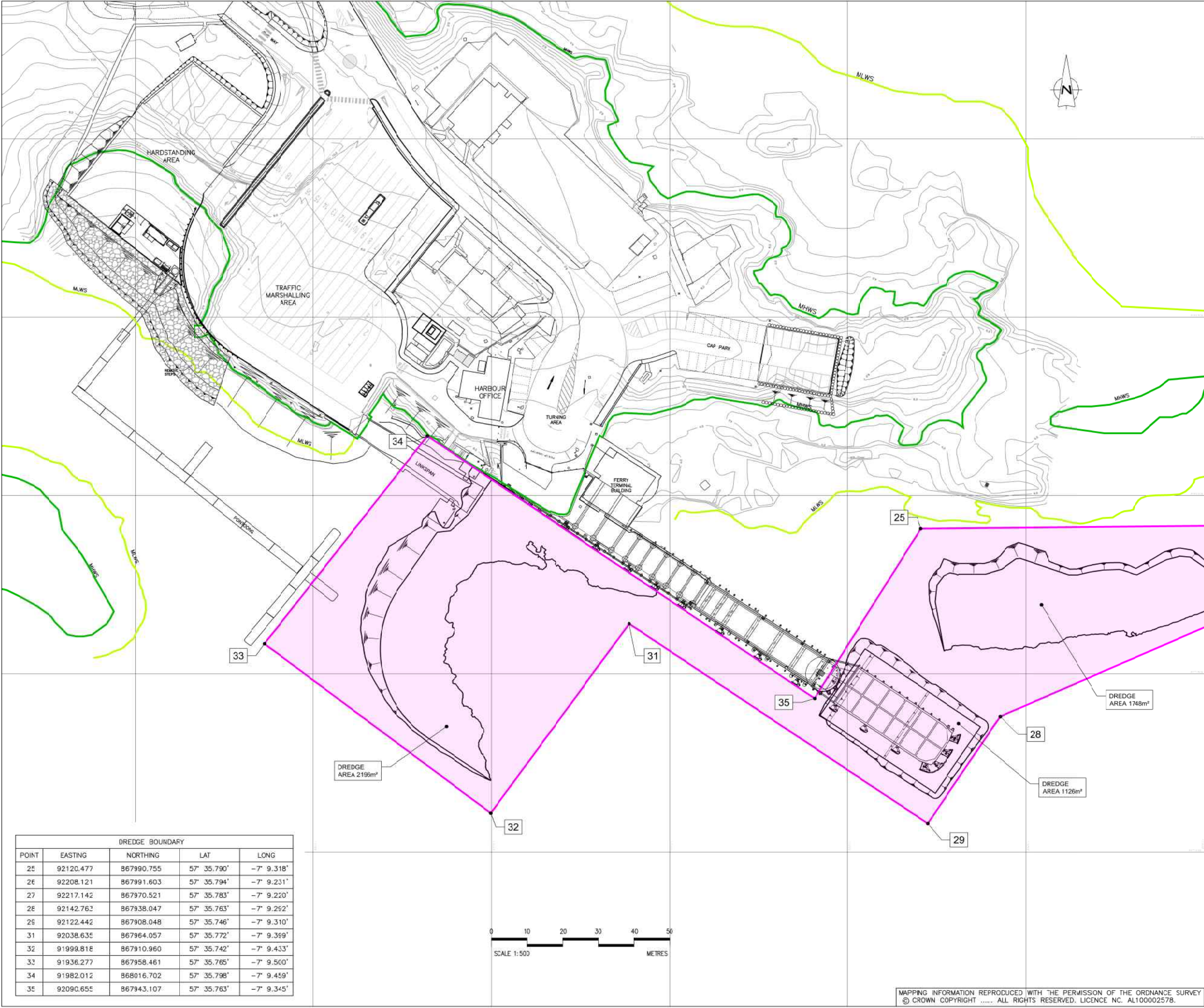
GLASGOW 0141 534 8233 glasgow@wallacestone.co.uk	DINGWALL 01349 866775 dingwall@wallacestone.co.uk
HEBRIDES 01851 612454 hebrides@wallacestone.co.uk	

DRAWING TITLE

**MARINE CONSENT**

DRAWN	CHECKED	APPROVED
Redacted		
DATE	DATE	DATE
06.03.19	08.03.19	08.03.19
SCALE (A1)	1:500	STAGE
CONSENT		
REVISION	A	
PROJECT No.	1975	DRAWING No.
936		





GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM.
- ORDNANCE DATUM IS 2.59m ABOVE CHART DATUM.
- H.A.T. +5.6m LAT +0.1m  
M.H.W.S. +4.8m M.L.W.S. +0.7m  
M.H.W.N. +3.6m M.L.W.N. +1.9m

LEGEND

M.H.W.S.

M.L.W.S.

DREDGE BOUNDARY  
TOTAL AREA 12,216m²

A	11.03.19	MINOR AMENDMENTS	Redacted
REV	DATE	DETAILS	DRAWN CHK'D APP'D
AMENDMENTS			

DREDGE BOUNDARY				
POINT	EASTING	NORTHING	LAT	LONG
25	92120.477	867990.755	57° 35.790'	-7° 9.318'
26	92208.121	867991.603	57° 35.794'	-7° 9.231'
27	92217.142	867970.521	57° 35.783'	-7° 9.220'
28	92142.763	867938.047	57° 35.763'	-7° 9.292'
29	92122.442	867908.048	57° 35.746'	-7° 9.310'
31	92038.635	867964.057	57° 35.772'	-7° 9.399'
32	91999.816	867910.960	57° 35.742'	-7° 9.433'
33	91936.277	867958.461	57° 35.765'	-7° 9.500'
34	91982.012	868016.702	57° 35.798'	-7° 9.459'
35	92090.655	867943.107	57° 35.763'	-7° 9.345'



MAPPING INFORMATION REPRODUCED WITH THE PERMISSION OF THE ORDNANCE SURVEY  
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Comhairle nan Eilean Siar

PROJECT

LOCHMADDY FERRY TERMINAL  
UPGRADE WORKS

Wallace Stone

CONSULTING CIVIL ENGINEERS

GLASGOW 0141 534 8233  
glasgow@wallacestone.co.uk

DINGWALL 01349 866775  
dingwall@wallacestone.co.uk

HEBRIDES 01851 612454  
hebrides@wallacestone.co.uk

DRAWING TITLE

DREDGE CONSENT

DRAWN

Redacted

CHECKED

APPROVED

DATE

06.03.19

DATE

08.03.19

DATE

08.03.19

SCALE (A1)

1:500

STAGE

CONSENT

REVISION

A

PROJECT No.

1975

DRAWING No.

937



**PROPOSED NEW HV CABLE TO HOTEL SUBSTATION**

**KEYPLAN NTS**

**REVISIONS:**

NO.	DESCRIPTION	CAD	DAT
1	ISSUED FOR TENDER		

**CLIENT:** CHAL  
**CATEGORY:** TENDER  
**SERVICE:** ELECTRICAL

**PROJECT:** LOCHMADDY FERRY TERMINAL UPGRADE  
**DWG NO:** 4511-E(61)01  
**SCALE (B/A/J3):** 1:200/1:400

**DRAWING TITLE:** PROPOSED SITE PLAN EXTERNAL ELECTRICAL SERVICES LAYOUT  
**REDUCED SCALE:** Redact  
**DATE:** AUG.1

PROPOSED NEW HV  
CABLE TO HOTEL  
SUBSTATION

48

**CHARTERED BUILDING SERVICES ENGINEERS**  
3 ABERCROMBIE COURT, ARNHALL BUSINESS PARK,  
WESTHILL, ABERDEENSHIRE, AB32 6FE  
TELEPHONE: 01224 744555  
EMAIL: [info@ccdp.co.uk](mailto:info@ccdp.co.uk) WEBSITE: [www.ccdp.co.uk](http://www.ccdp.co.uk)

CATEGORY:  
**TENDER**

SERVICE:  
**ELECTRICAL**

DWG NO:  
4511-E(61)01

SCALE (@A1/A3):  
1:200/1:400

CAD:	ENG:
<b>Redact</b>	
REV:	DATE:
-	AUG.1





3 ABERCROMBIE COURT, ARNHALL BUSINESS PARK,  
WESTHILL, ABERDEENSHIRE, AB32 6FE  
TELEPHONE: 01224 744555  
EMAIL: [info@ccdp.co.uk](mailto:info@ccdp.co.uk) WEBSITE: [www.ccdp.co.uk](http://www.ccdp.co.uk)



VICE:  
ELECTRICAL

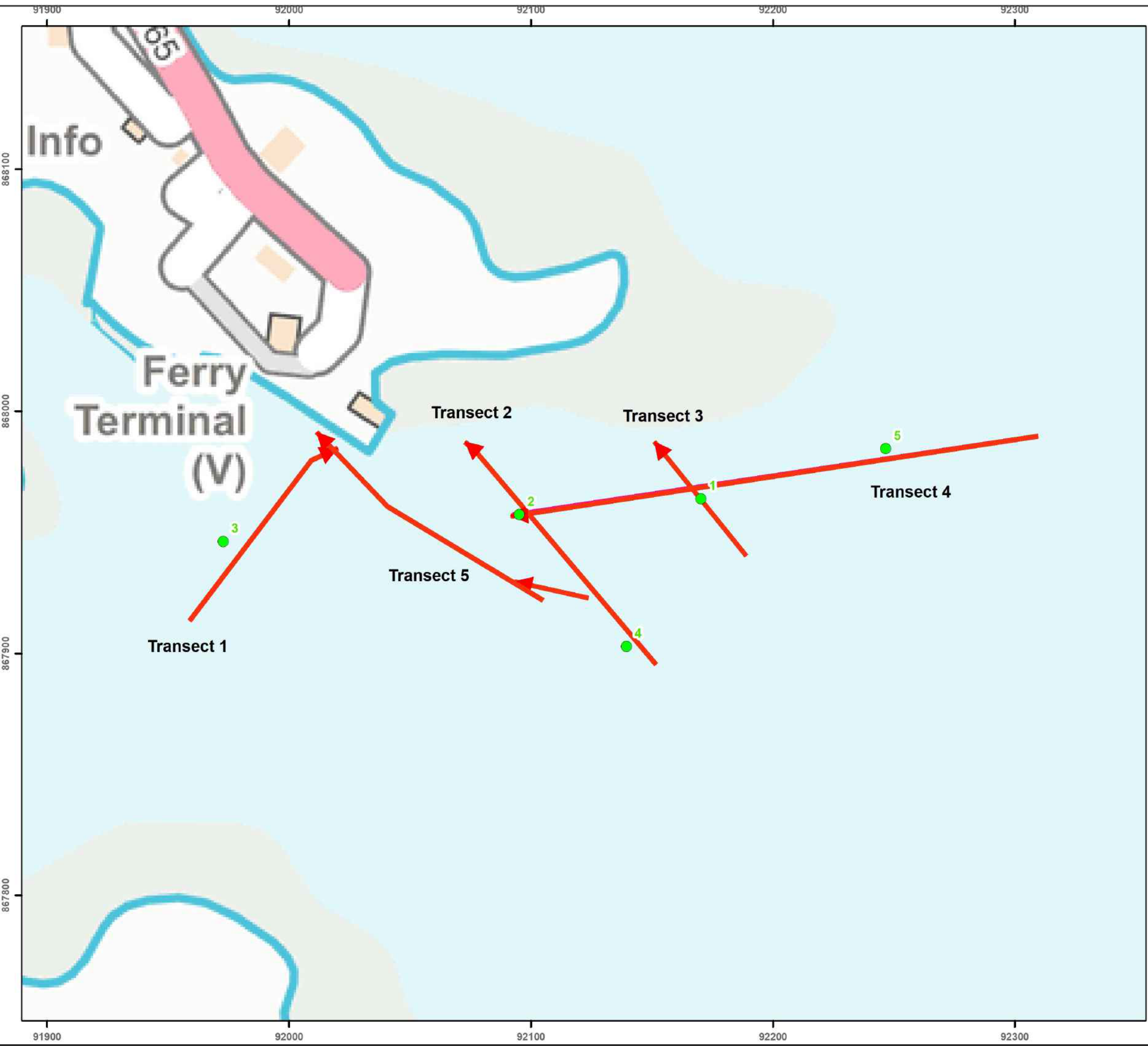
PROJECT:  
LOCHMADDY FERRY TERMINAL  
UPGRADE

200/1:400

DRAWING TITLE:  
PROPOSED SITE PLAN  
EXTERNAL ELECTRICAL SERVICES  
LAYOUT

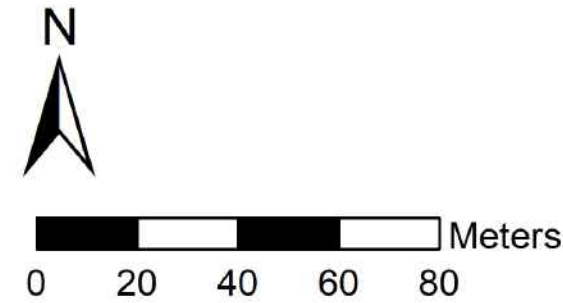
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10



# Legend

- Day Grab Sample
- ➔ P2258\_Lochmaddy\_transect\_lines



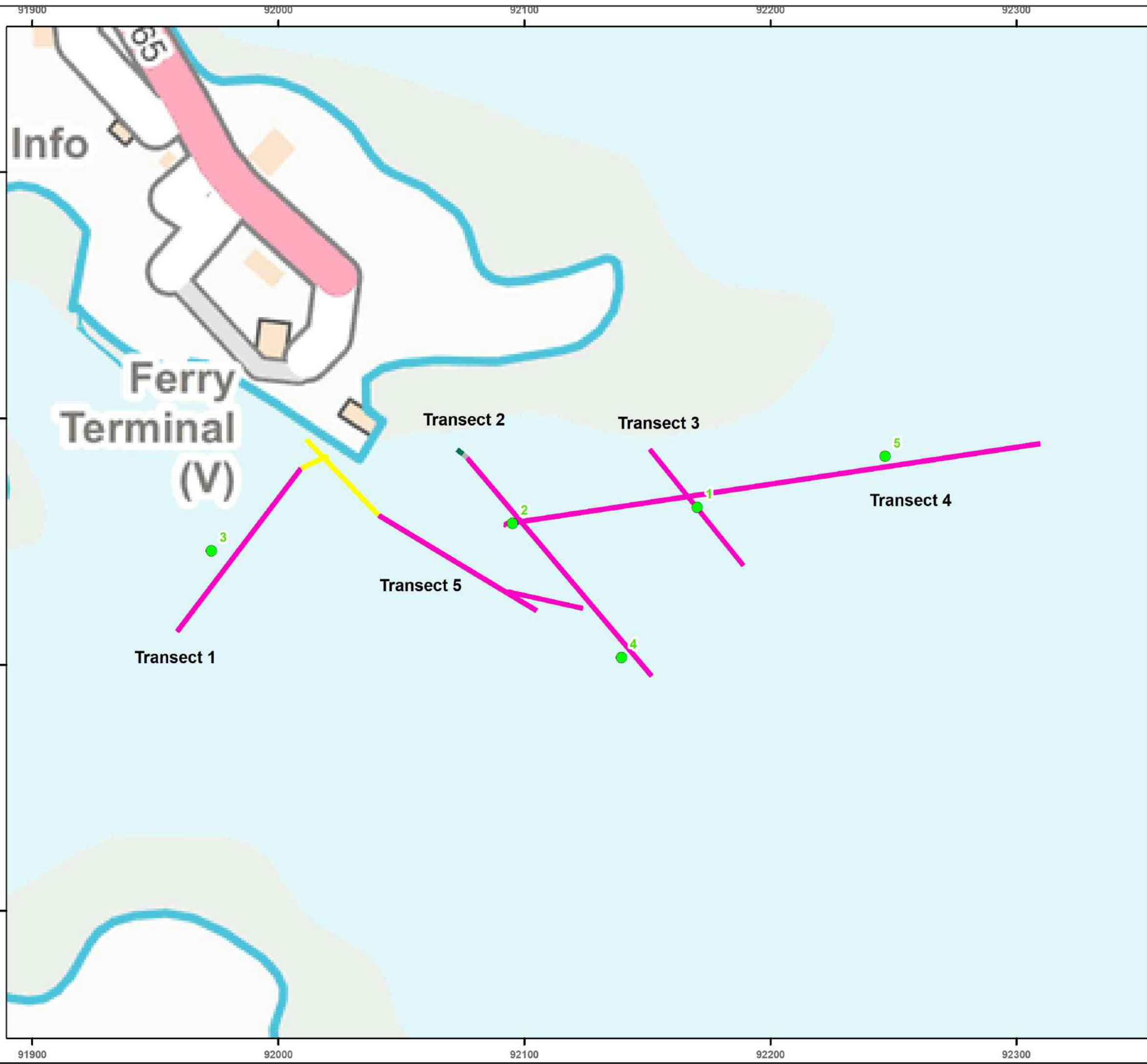
**Project**  
P2258 Lochmaddy Ferry Terminal  
Subtidal Benthic Ecology Surveys

**Title** Drawing 49L.07.01  
Lochmaddy benthic survey sampling  
locations

Scale	Drawn	Chk	Auth
1:1,500	Redacted		

Coordinate System	Date
British National Grid (OSGB 1936)	10/05/2018

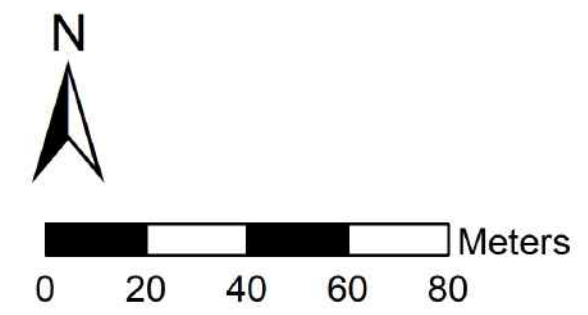




# Legend

## P2258 DDV Biotopes

- LR.LLR.F.Fserr.FS
- IR.HIR.Ksed
- IR.MIR.KR.Ldig
- SS.SMp.KSwSS.LsacR.Mu
- Day Grab Sample



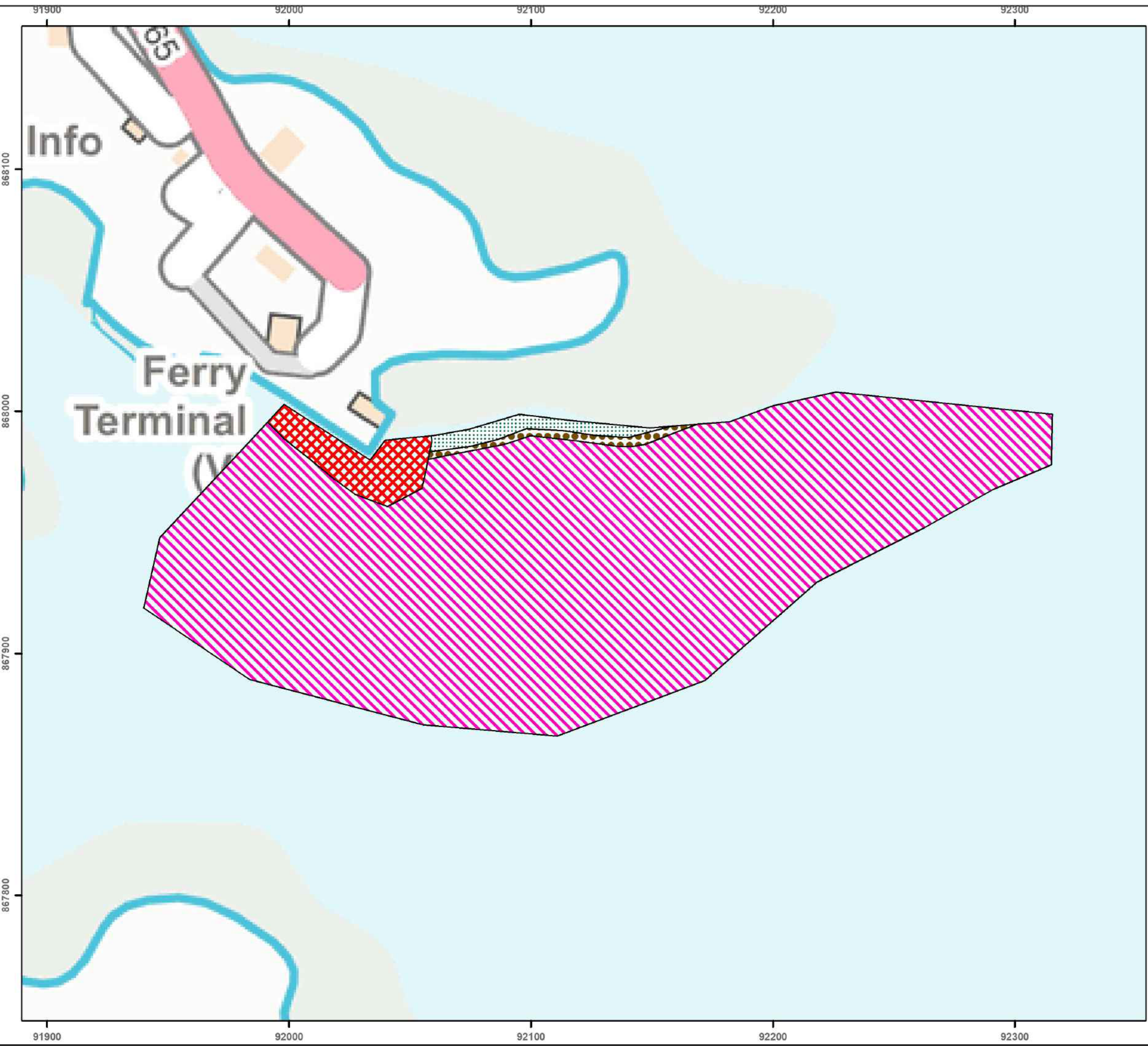
**Project**  
P2258 Lochmaddy Ferry Terminal  
Subtidal Benthic Ecology Surveys

**Title** Drawing 49L.07.02  
Lochmaddy DDV Biotopes

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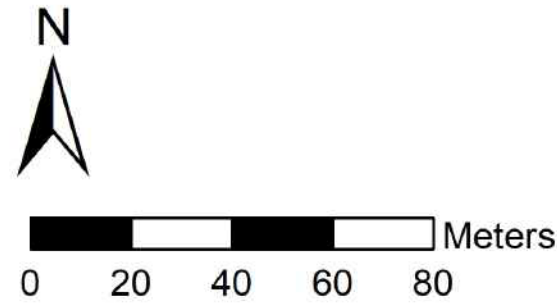
Coordinate System	Date
British National Grid (OSGB 1936)	10/05/2018





# Legend

-  LR.LLR.F.Fserr.FS
-  IR.HIR.Ksed
-  IR.MIR.KR.Ldig
-  SS.SMp.KSwSS.LsacR.Mu



**Project**  
P2258 Lochmaddy Ferry Terminal  
Subtidal Benthic Ecology Surveys

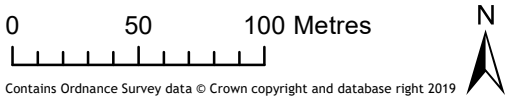
**Title** Drawing 49L.07.03  
Lochmaddy benthic survey biotopes

<b>Scale</b> 1:1,500	<b>Drawn</b> Redacted	<b>Chk</b>	<b>Auth</b>
<b>Coordinate System</b> British National Grid (OSGB 1936)			<b>Date</b> 10/05/2018





- Legend**
- Noise Monitoring Locations (NMLs)**
- NML01 - Dwellings within Ferry Terminal
  - NML02 - Lochmaddy Residential Area
  - NML03 - Lochmaddy Hotel
  - NML04 - Otter Area
- Nearest Noise Sensitive Receptor (NSR) Areas**
- NSR01
  - NSR02
  - NSR03
  - NSR04



R1	FIRST ISSUE				12/04/2019
REV.	DETAILS	DRAWN	CHK'D	APP'D	DATE

**Project** Lochmaddy Ferry Terminal Development

**Client** Affric Ltd.

**Title** In-Air Noise Assessment Study Area

**Drawing No.** 49L.10.01

**Scale** 1:3,000 @A3

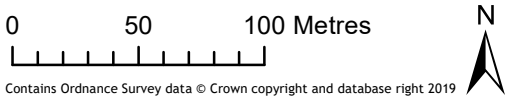
**Doc. Ref.** 12415-001







- Legend**
- Noise Assessment Locations (NALs)
  - Noise Monitoring Locations (NMLs)
  - Buildings



R1	FIRST ISSUE				12/04/2019
REV.	DETAILS	DRAWN	CHK'D	APP'D	DATE

**Project** Lochmaddy Ferry Terminal Development

**Client** Affric Ltd.

**Title** Noise Monitoring Locations (NMLs) and Noise Assessment Locations (NALs)

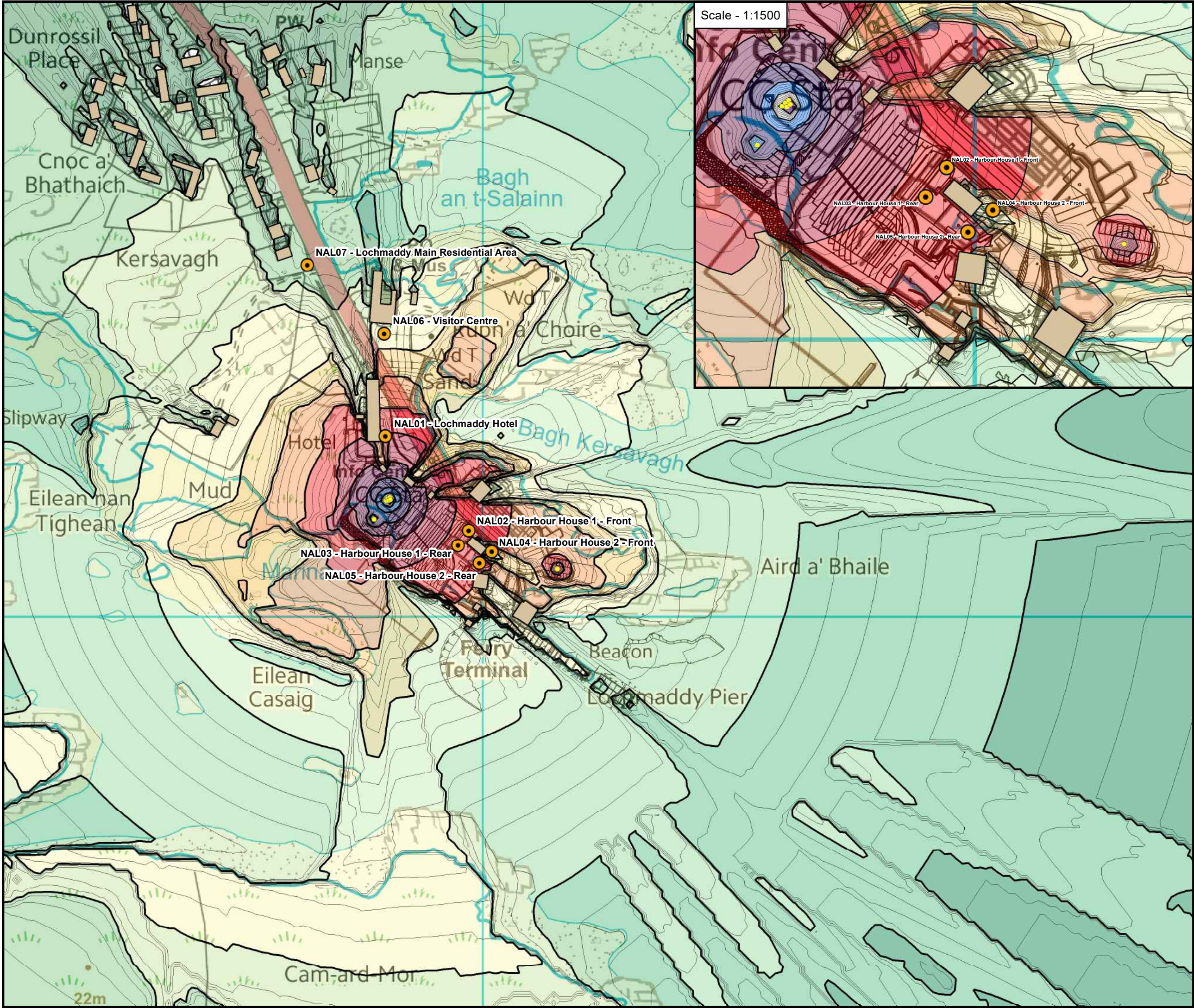
**8fUk ]b[ No.** 49L.10.02

**Scale** 1:3,000 @A3

**Doc. Ref.** 12415-002



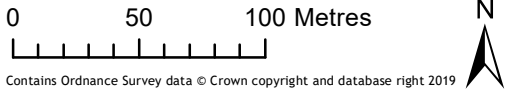




Scale - 1:1500

### Legend

- Modelled Noise Sources
  - Noise Assessment Locations (NALs)
  - Buildings
  - Site Layout
  - Predicted Noise Contours (1dB Increments)
- Predicted Noise Levels (dBA)**
- 30-35
  - 35-40
  - 40-45
  - 45-50
  - 50-55
  - 55-60
  - 60-65
  - 65-70
  - 70-75
  - 75-80
  - 80-85
  - 85-90
  - 90-95
  - 95>

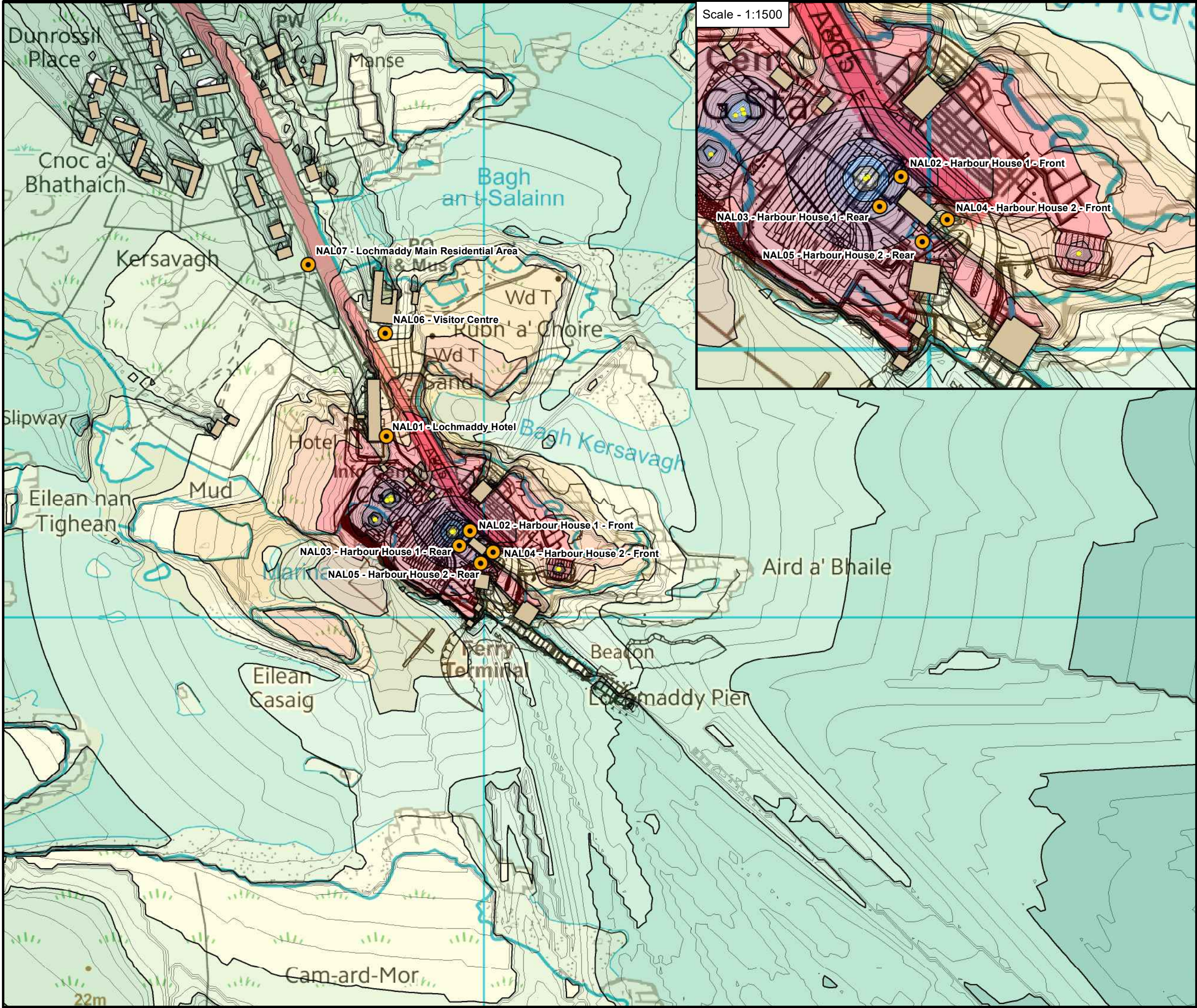


R1	FIRST ISSUE				%S/(/201-
REV.	DETAILS	DRAWN	CHK'D	APP'D	DATE

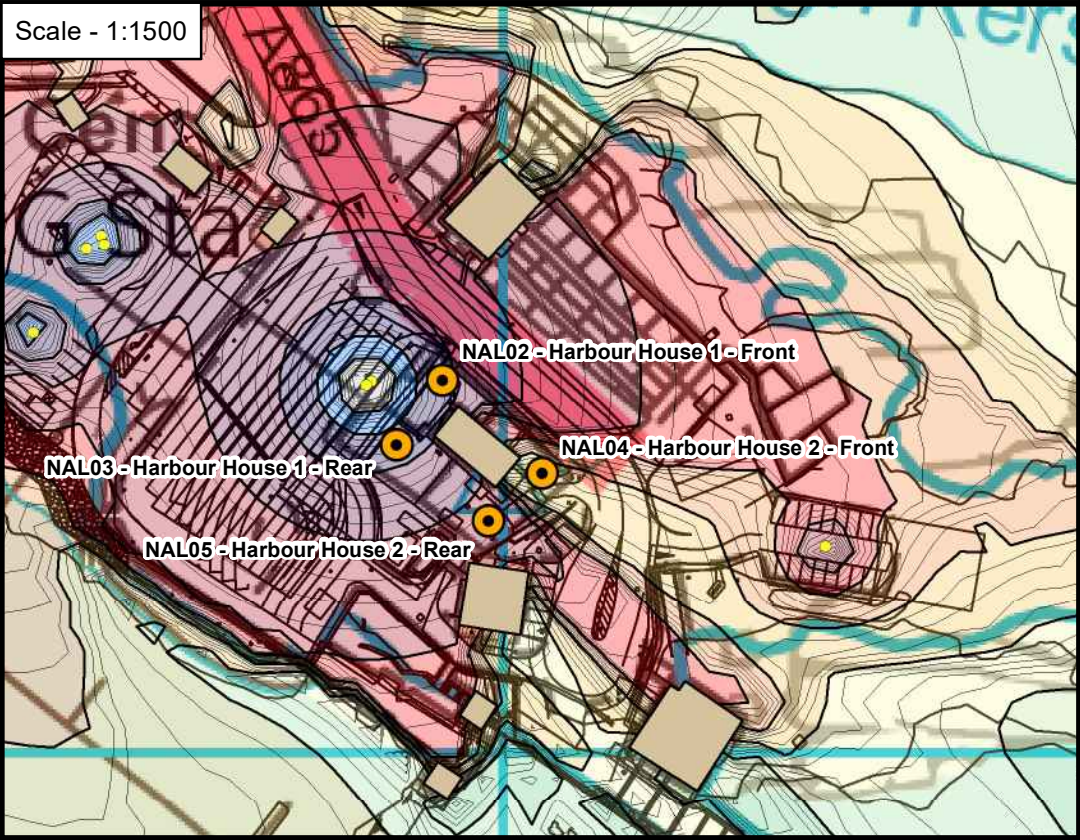
**Project** Lochmaddy Ferry Terminal Development  
**Client** Affric Ltd.  
**Title** Scenario 1a - Noise Contour Plot  
**Drawing No.** 49L.10.03  
**Scale** 1:3,000 @A3  
**Doc. Ref.** 12415-003







Scale - 1:1500

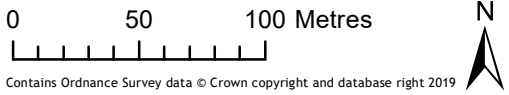


### Legend

- Modelled Noise Sources
- Noise Assessment Locations (NALs)
- Buildings
- Site Layout
- Predicted Noise Contours (1dB Increments)
- Predicted Noise Contours (5dB Increments)

### Predicted Noise Levels (dBA)

- 30-35
- 35-40
- 40-45
- 45-50
- 50-55
- 55-60
- 60-65
- 65-70
- 70-75
- 75-80
- 80-85
- 85-90
- 90-95
- 95>

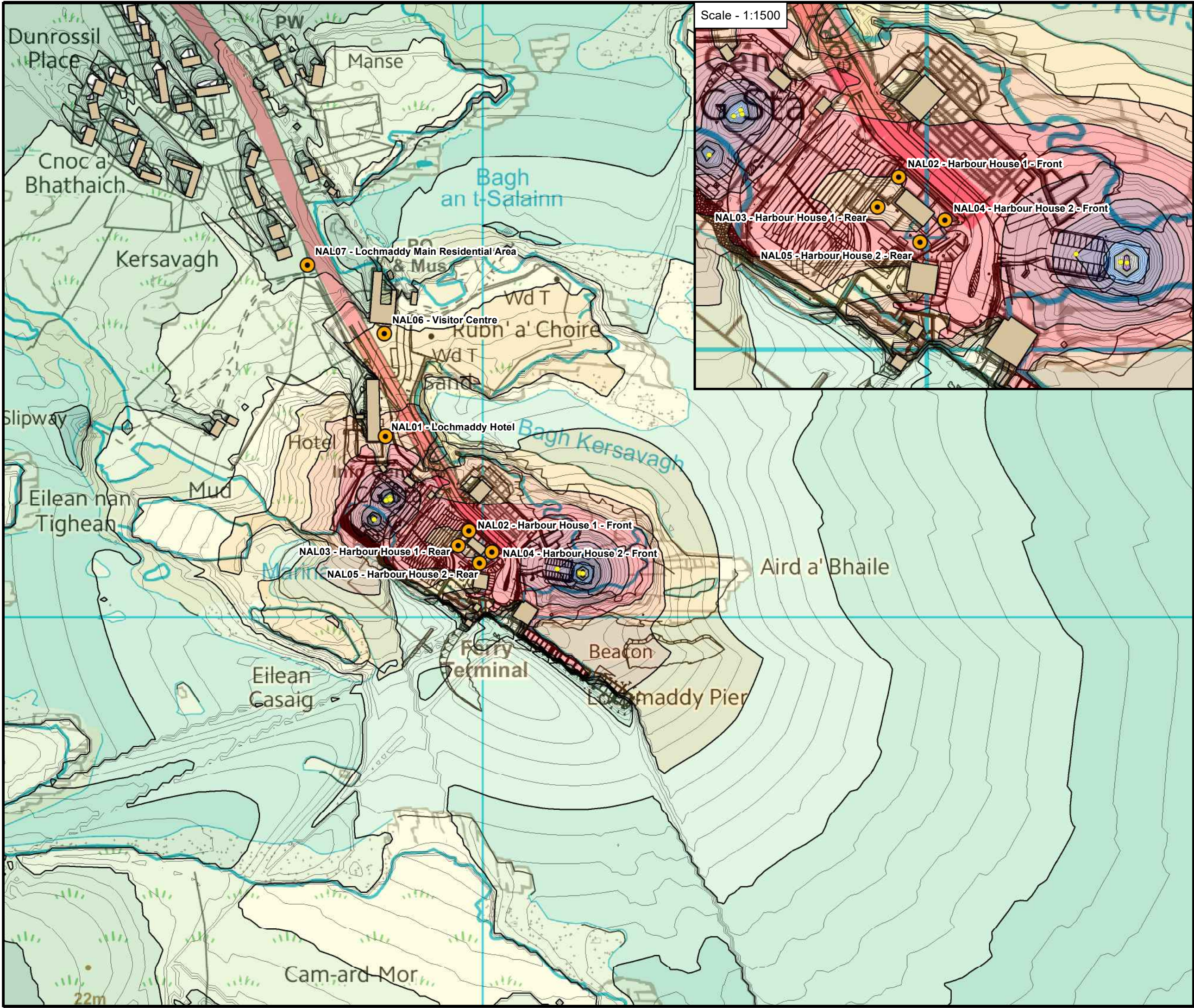


R1	FIRST ISSUE				12/04/2019
REV.	DETAILS	DRAWN	CHK'D	APP'D	DATE

**Project** Lochmaddy Ferry Terminal Development  
**Client** Affric Ltd.  
**Title** Scenario 1b - Noise Contour Plot  
**Drawing No.** 49L.10.04  
**Scale** 1:3,000 @A3  
**Doc. Ref.** 12415-004







Scale - 1:1500

### Legend

- Modelled Noise Sources
- Noise Assessment Locations (NALs)
- Buildings
- Site Layout
- Predicted Noise Contours (1dB Increments)

### Predicted Noise Levels (dBA)

- 30-35
- 35-40
- 40-45
- 45-50
- 50-55
- 55-60
- 60-65
- 65-70
- 70-75
- 75-80
- 80-85
- 85-90
- 90-95
- 95>

0 50 100 Metres

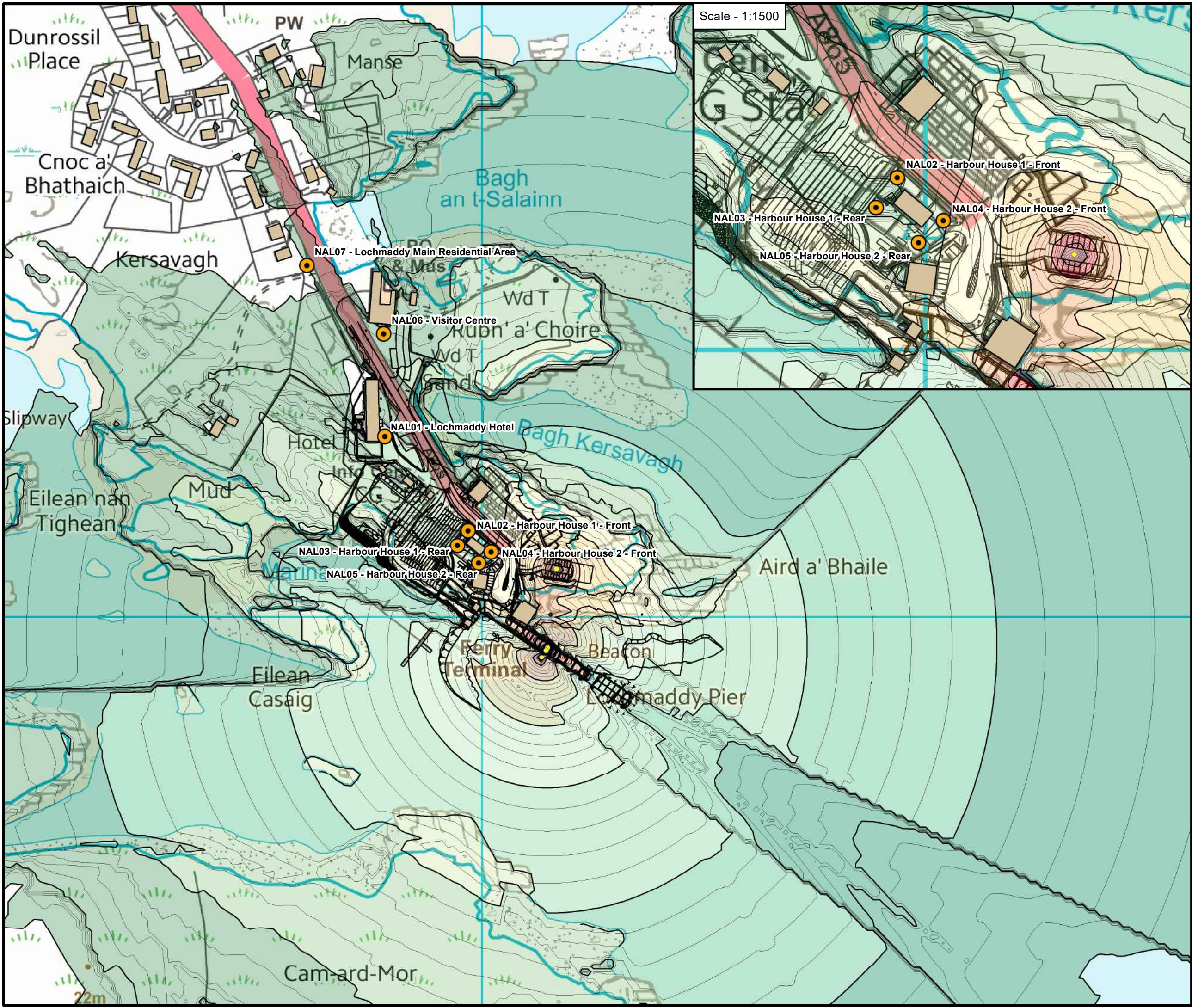
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R1	FIRST ISSUE				12/04/2019
REV.	DETAILS	DRAWN	CHK'D	APP'D	DATE

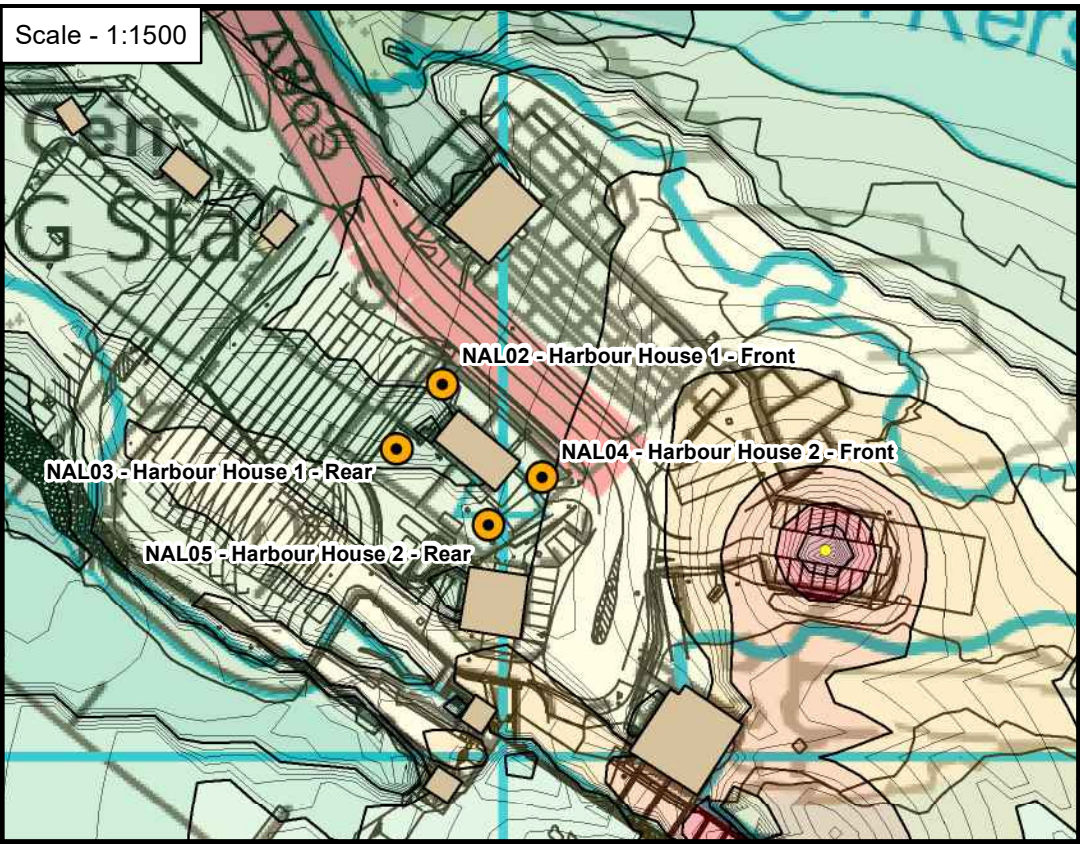
**Project** Lochmaddy Ferry Terminal Development  
**Client** Affric Ltd.  
**Title** Scenario 1c - Noise Contour Plot  
**Drawing No.** 49L.10.05  
**Scale** 1:3,000 @A3  
**Doc. Ref.** 12415-005





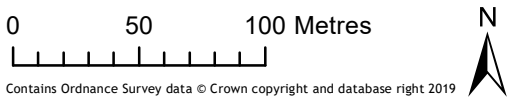


Scale - 1:1500



### Legend

- Modelled Noise Sources
  - Noise Assessment Locations (NALs)
  - Buildings
  - Site Layout
  - Predicted Noise Contours (1dB Increments)
- Predicted Noise Levels (dBA)**
- 30-35
  - 35-40
  - 40-45
  - 45-50
  - 50-55
  - 55-60
  - 60-65
  - 65-70
  - 70-75
  - 75-80
  - 80-85
  - 85-90
  - 90-95
  - 95>



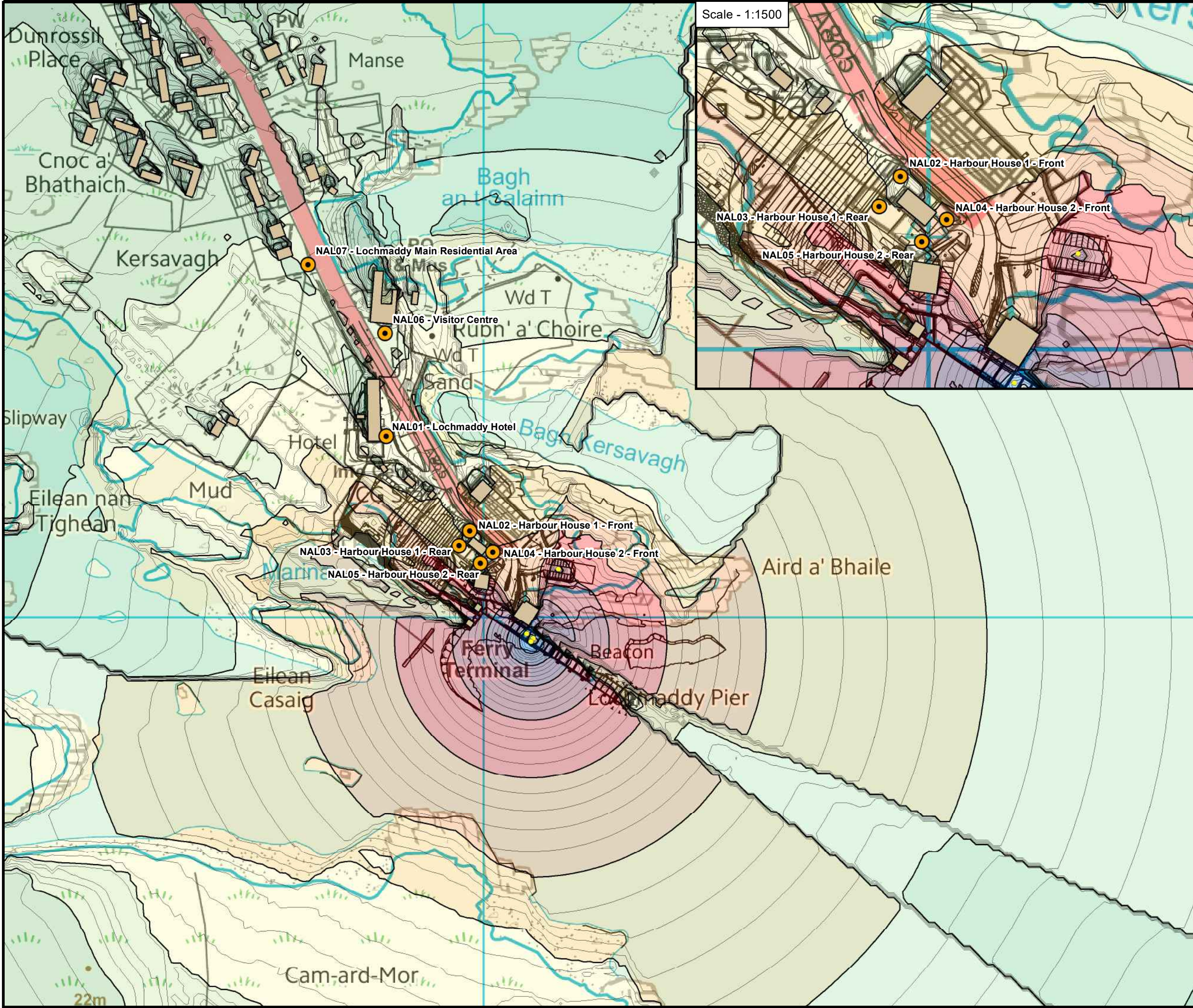
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R1	FIRST ISSUE				12/04/2019
REV.	DETAILS	DRAWN	CHK'D	APP'D	DATE

**Project** Lochmaddy Ferry Terminal Development  
**Client** Affric Ltd.  
**Title** Scenario 2 - Contour Plot  
**Drawing No.** 49L.10.06  
**Scale** 1:3,000 @A3  
**Doc. Ref.** 12415-006







Scale - 1:1500

### Legend

- Modelled Noise Sources
- Noise Assessment Locations (NALs)
- Buildings
- Site Layout
- Predicted Noise Contours (1dB Increments)

### Predicted Noise Levels (dBA)

- 30-35
- 35-40
- 40-45
- 45-50
- 50-55
- 55-60
- 60-65
- 65-70
- 70-75
- 75-80
- 80-85
- 85-90
- 90-95
- 95>

0 50 100 Metres

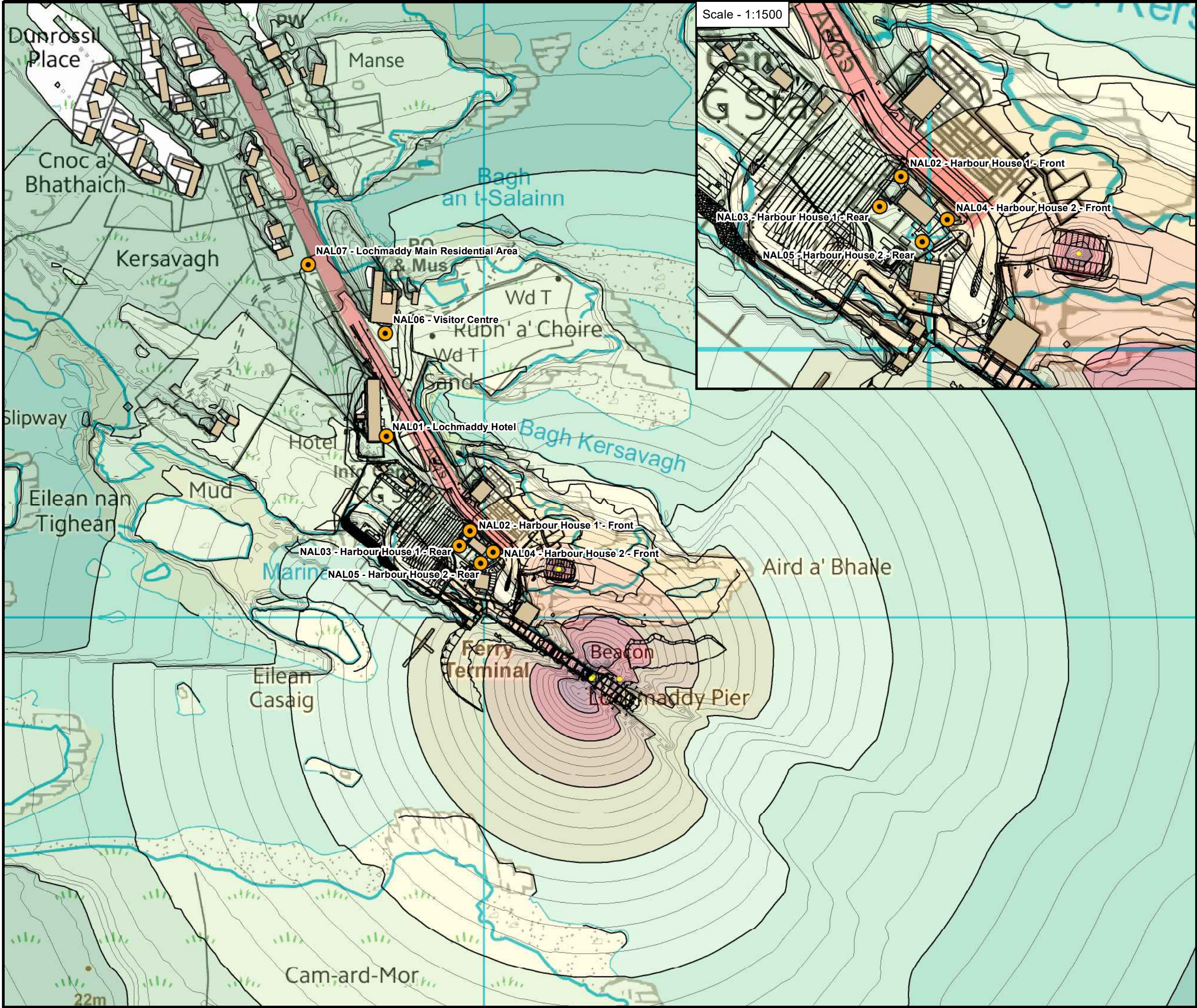
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R1	FIRST ISSUE				12/04/2019
REV.	DETAILS	DRAWN	CHK'D	APP'D	DATE

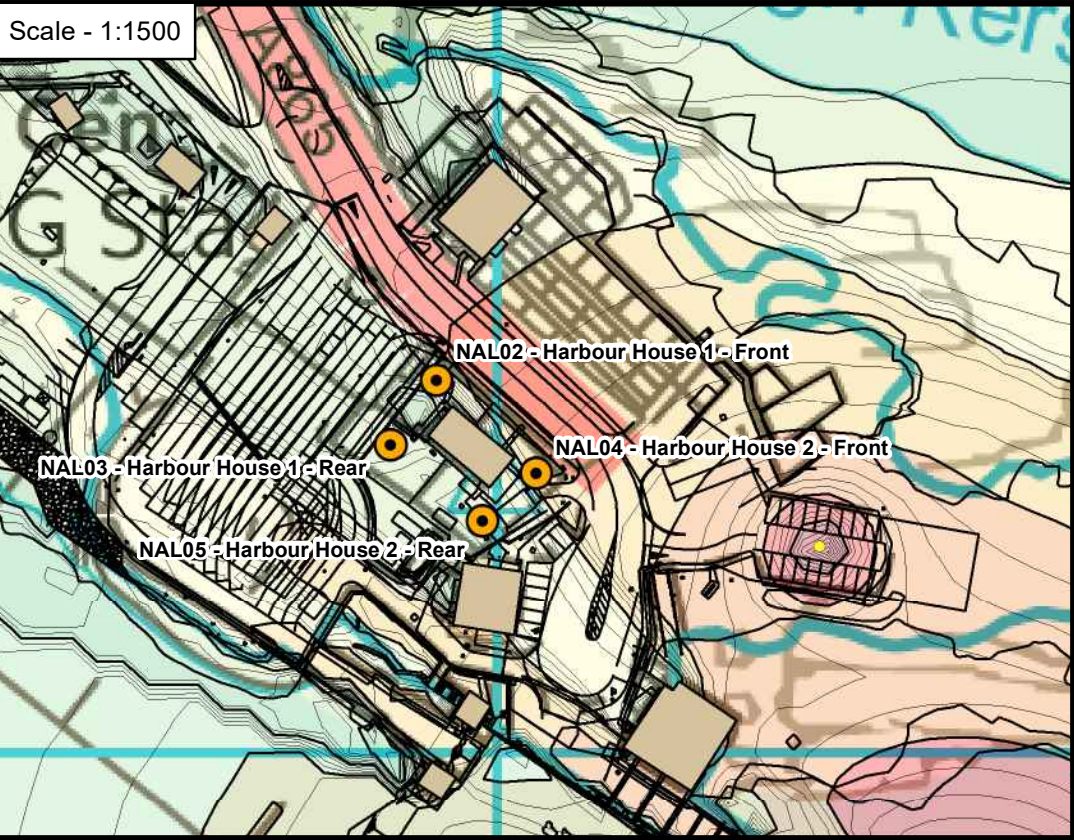
**Project** Lochmaddy Ferry Terminal Development  
**Client** Affric Ltd.  
**Title** Scenario 3 - Noise Contour Plot  
**Drawing No.** 49L.10.07  
**Scale** 1:3,000 @A3  
**Doc. Ref.** 12415-007





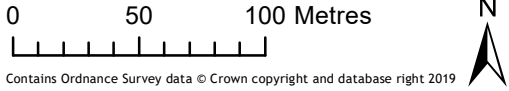


Scale - 1:1500



### Legend

- Modelled Noise Sources
  - Noise Assessment Locations (NALs)
  - Buildings
  - Site Layout
  - Predicted Noise Contours (1dB Increments)
- Predicted Noise Levels (dBA)**
- 30-35
  - 35-40
  - 40-45
  - 45-50
  - 50-55
  - 55-60
  - 60-65
  - 65-70
  - 70-75
  - 75-80
  - 80-85
  - 85-90
  - 90-95
  - 95>



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R1	FIRST ISSUE				12/04/2019
REV.	DETAILS	DRAWN	CHK'D	APP'D	DATE

**Project** Lochmaddy Ferry Terminal Development  
**Client** Affric Ltd.  
**Title** Scenario 4 - Noise Contour Plot  
**Drawing No.** 49L.10.08  
**Scale** 1:3,000 @A3  
**Doc. Ref.** 12415-008

