

Schedule G2	Transport Survey	SIEMENS Gamesa RENEWABLE ENERGY
ID 21072021	Owner: SGRE	Classification: Restricted
Date: 2021-07-21	Author:	Page: 1 of 31

Schedule G2 –

TRANSPORT SURVEY AND PUBLIC ROAD REQUIREMENTS

Storm, Iceland.

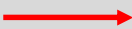
SG 6,0 - 155 – 102,5mhh 50A

Rev.	Date	Change	Responsible	Checked
01	21-07-2021	First issue	BH	

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	Direction forward		Must be made drivable and in level with the road
	Direction backward		Must be free of rocks, trees, etc. for the overhang of the transport
	Road furniture must be removed		Must be made drivable (Traffic island – Curbs)
	Road furniture is removable		Must be removed (Traffic island – Curbs)
	Info. for distance in meters		Must be removed (Fences)
	Trees must be removed or Trees should be pruned		Must be removed (Auto Barrier)
			Border between public and private land

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1 INTRODUCTION

This document (hereinafter referred to as “**Transport Survey**”) describes observations on the Access Route and explains the transportation of the Key Components to the Site and serves as a first Evaluation of the transportability of the route, checked on the inspection date, taking into account the boundary conditions (i.a. road modifications, dimensions and weight of the transport vehicles and components).

The Transport Survey is based on an inspection dated as set out on the front page of this Schedule G2, and shall not be regarded as a conclusive statement on suitability of the Access Route. The Transport Survey does furthermore not consider any route modifications other than such (if any) already set out in this document.

This Transport Survey does not include any bridge analysis or studies on Site.

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2 SURVEY DETAILS & PARTICIPANTS

Survey date: 21-07-2021

Start point: Port of Grundartangi, Iceland

End point: RRP. Storm, Iceland

Subcontractor name:

BH-Road Service Aps.

Name of Participant:

Name: Bjarne Hedegaard

Contact details:

Phone: +45-60155000

E mail: bh-service@outlook.dk

Siemens Gamesa:

Name of Participant:

Name: Arne Buettner

Contact details:

Phone: +49 1522/3506819

E mail: arne.buettner@siemensgamesa.com

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3 ARTICLES FOR TRANSPORT

The numbers provided with this document are only preliminary and to be used for transportation estimates and do not constitute a specification of the wind turbines offered.

Project: Storm 1 (Iceland)
AFT_SG 6.0-155_T102,5-50A

Units
24

Vessel: (Vessel Name)

Consignee Address Postcode Telf & Fax	(Consignee Data: Customer of WF or Gamesa Eólica subsidiary)
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Delivery Address	(Delivery Address at Destination)
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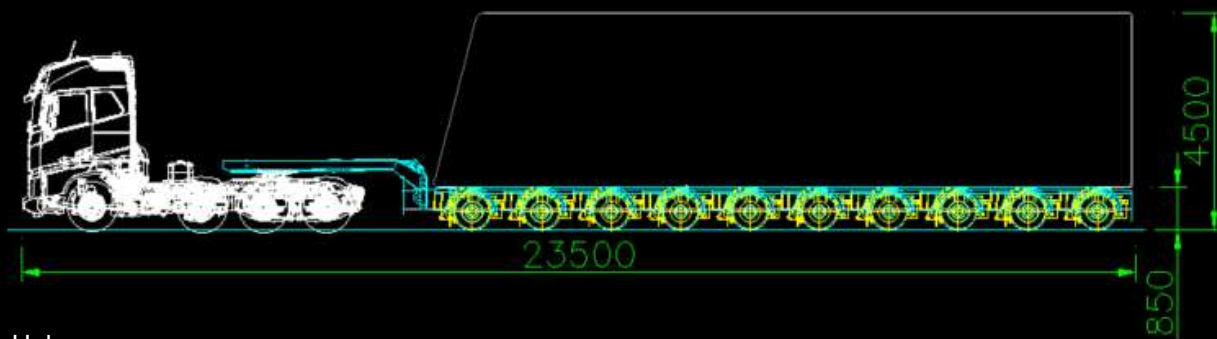
Notify To Address Postcode Telf & Fax	(Notify Data if apply any)
--	----------------------------

UNITS	CONTENTS	MATERIAL CODE	NET WT. EACH (Tn)	WEIGHT GROSS		METERS GROSS		
				GROSS WT. EACH (Tn)	TOTAL GROSS (Tn)	LENGTH (m)	WIDTH/BOTT OM (m)	HEIGHT/TOP (m)
24	Tower Section 1	(mat. code)	85,636	85,636	2055,264	16,474	4,700	4,434
24	Tower Section 2	(mat. code)	79,866	79,866	1916,784	22,680	4,434	4,424
24	Tower Section 3	(mat. code)	71,287	71,287	1710,888	27,160	4,424	3,599
24	Tower Section 4_Top Section	(mat. code)	67,885	67,885	1629,240	33,600	3,599	3,503
24	NACELLE_Global_MY21_Ring_SG5X	(mat. code)	73,355	73,355	1760,520	15,162	4,200	3,643
24	DRIVE_TRAIN_ALL_TYPE_DT_TEQ	(mat. code)	84,679	84,679	2032,296	7,446	3,130	3,218
24	TRANSFORMER_ALL_TYPE_TRF_TEQ	(mat. code)	19,518	19,518	468,432	3,344	2,644	3,497
24	HUB_SG155_H_TEQ	(mat. code)	54,960	54,960	1319,040	4,772	4,500	4,110
24	FIBERS_SG155_FIB_UNIV_TEQ_3_UNITS	(mat. code)	1,885	1,885	45,240	4,590	3,691	2,571
72	BLADE_SG155_TEQ_Z54_1x1	(mat. code)	25,644	25,644	1846,368	76,705	4,322	3,030

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4 DRAWINGS

Nacelle



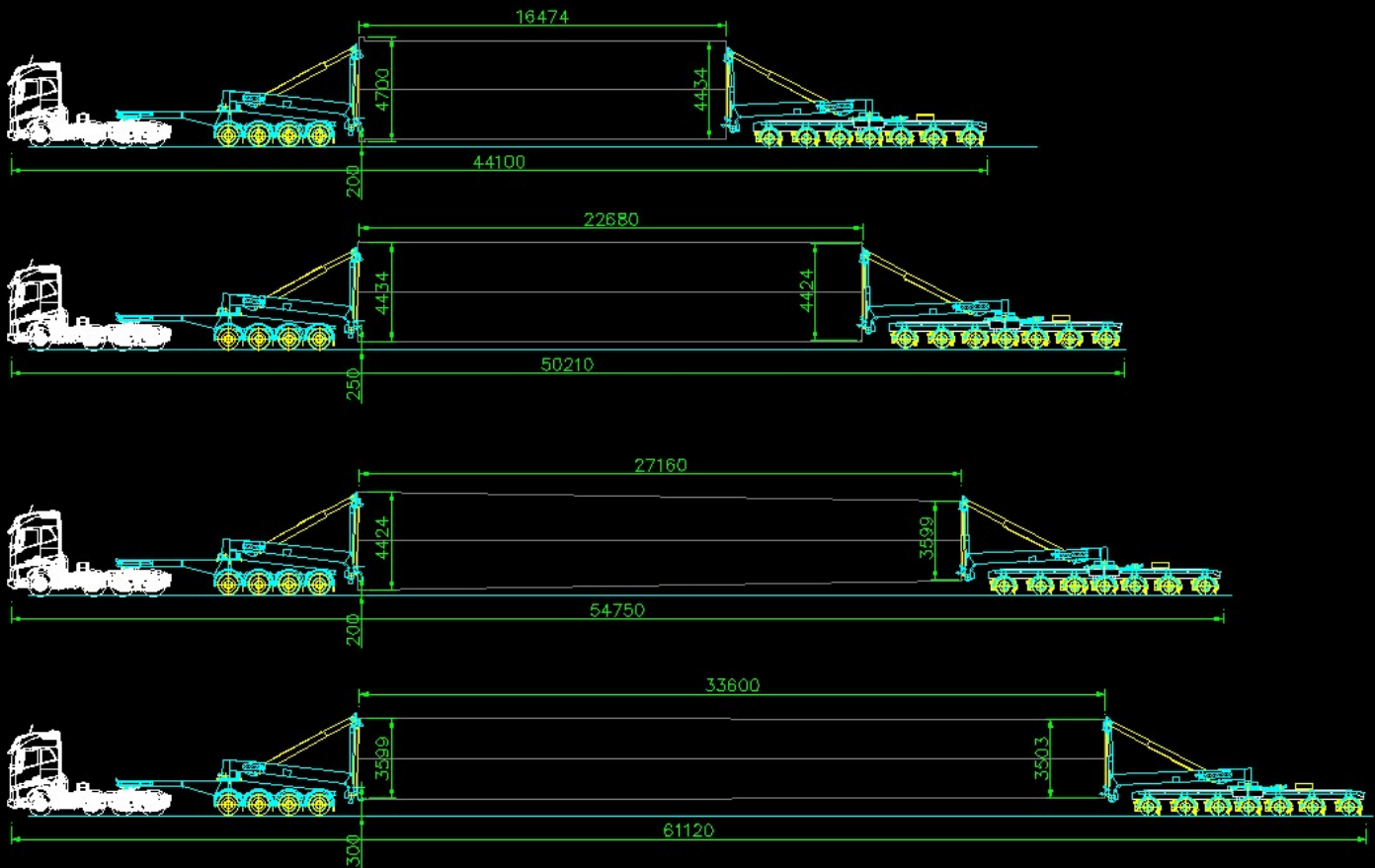
Hub



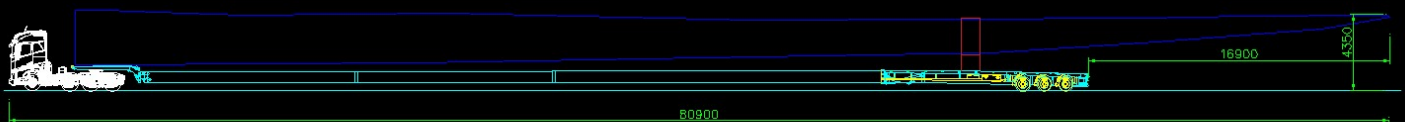
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4 DRAWINGS

Towers



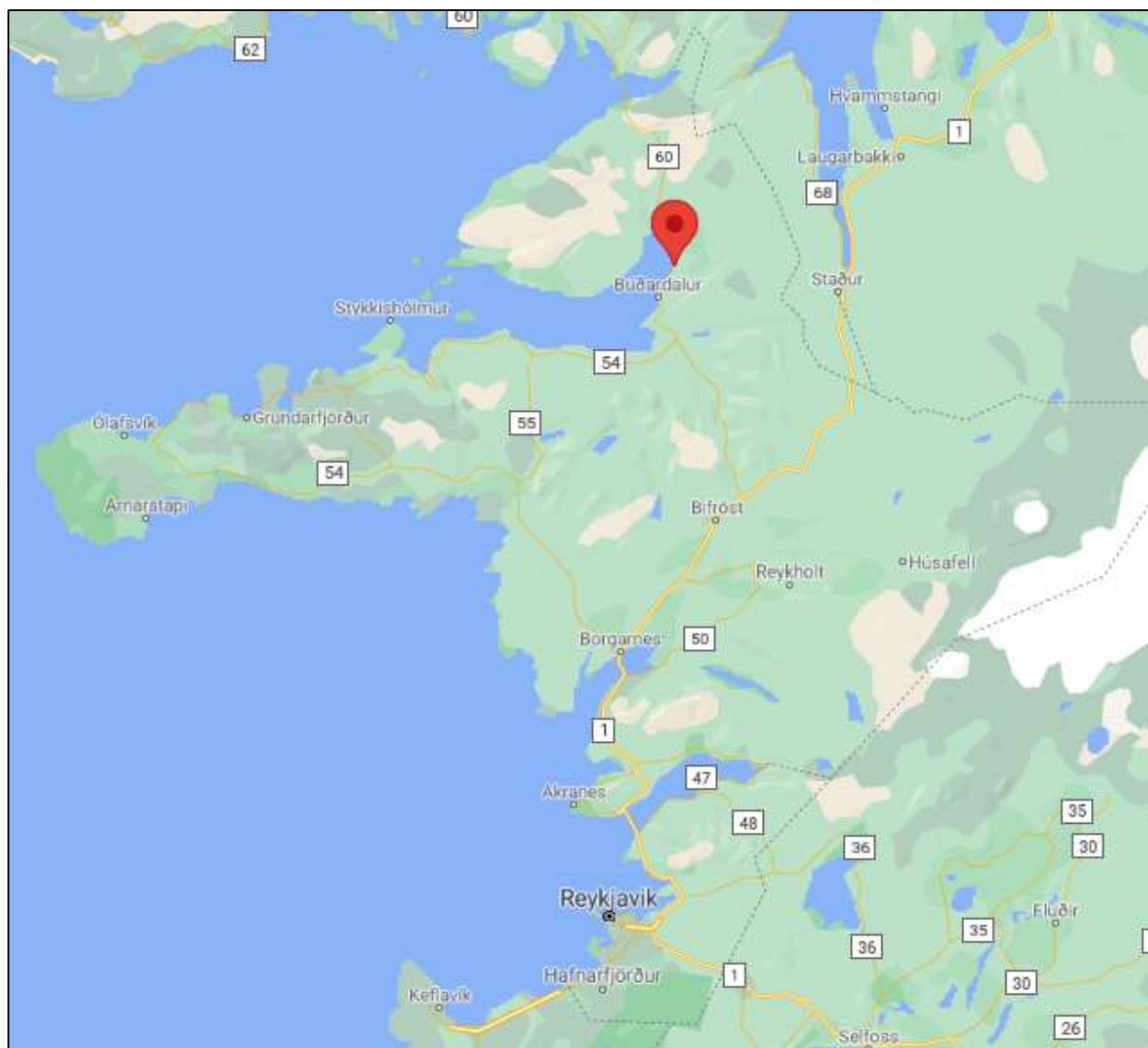
Blades



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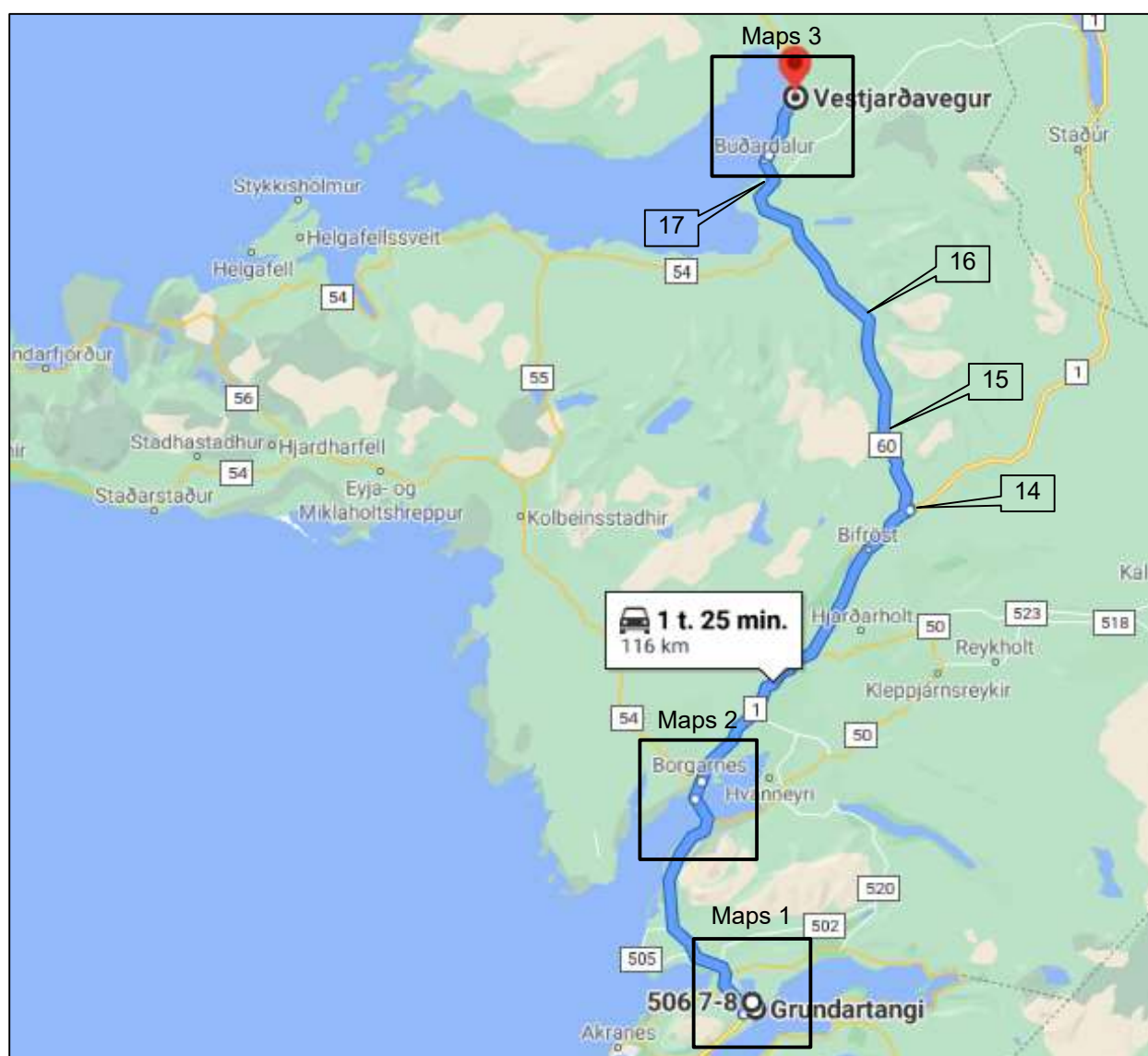
5 SITE LOCATION AND ROUTING

The Site is located approximately
100 km North of the town of Reykjavik in Iceland,



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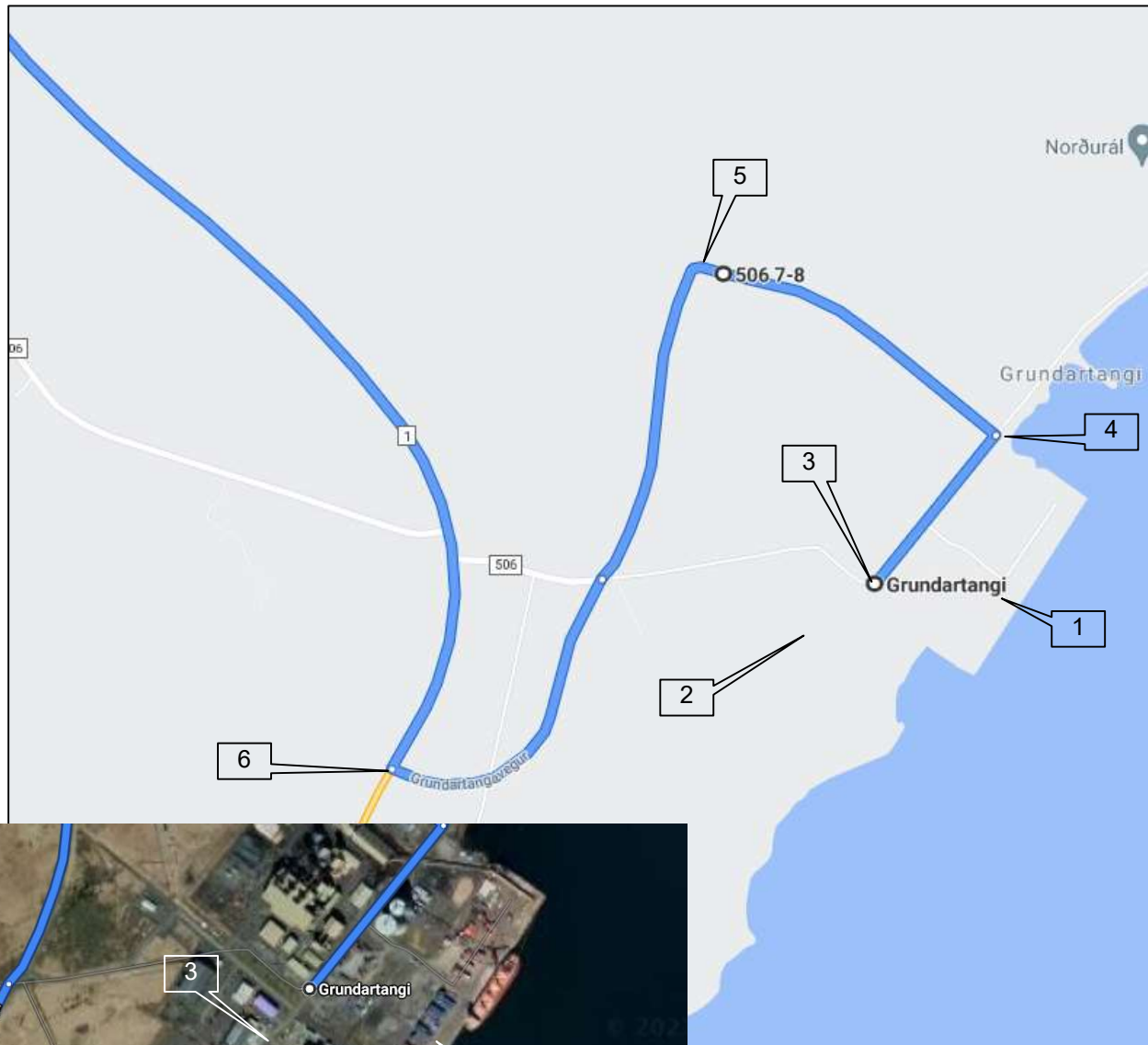
Description



[Grundartangi, Island til Vestjarðavegur, Island – Google Maps](#)

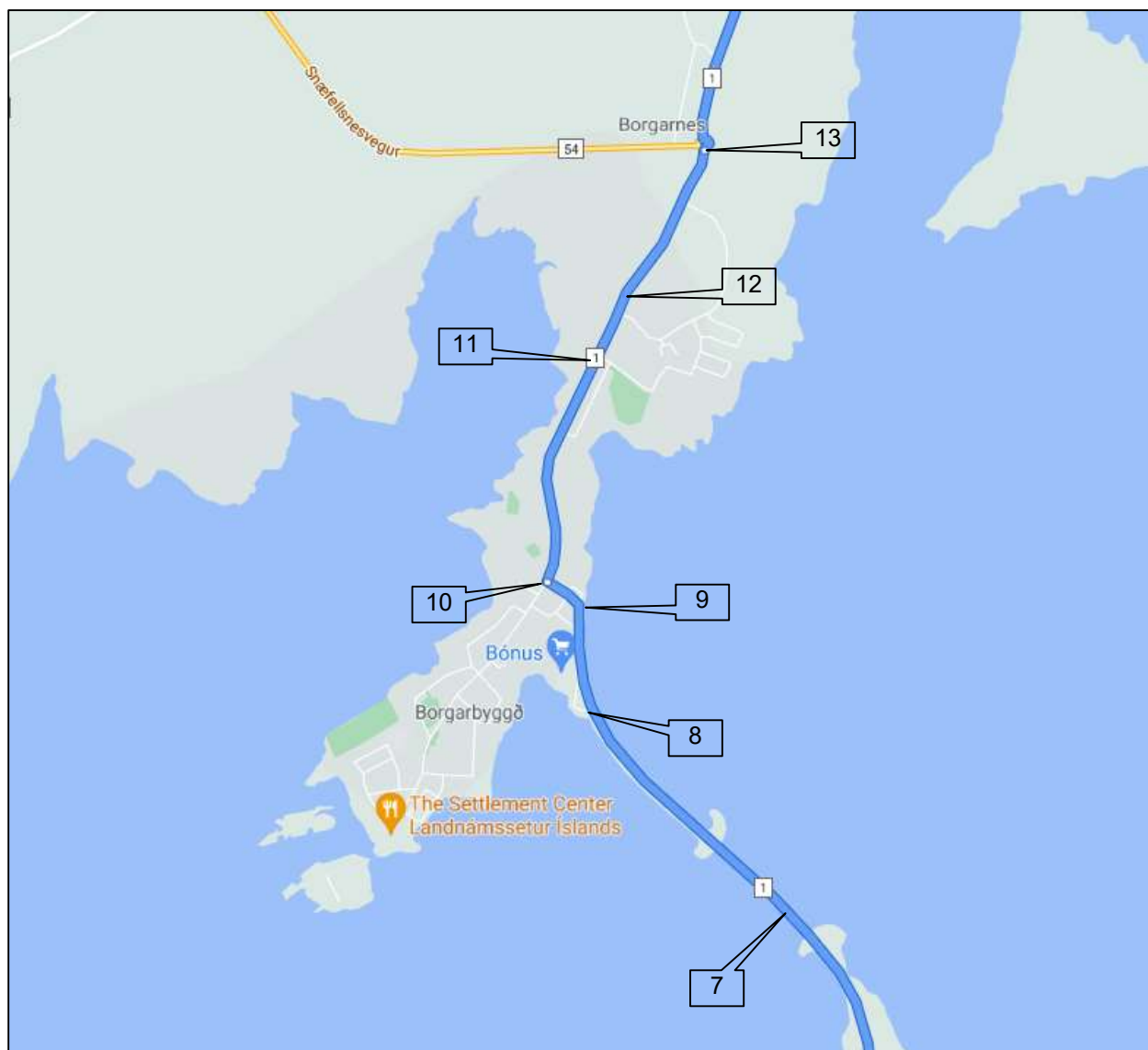
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Detail map 1



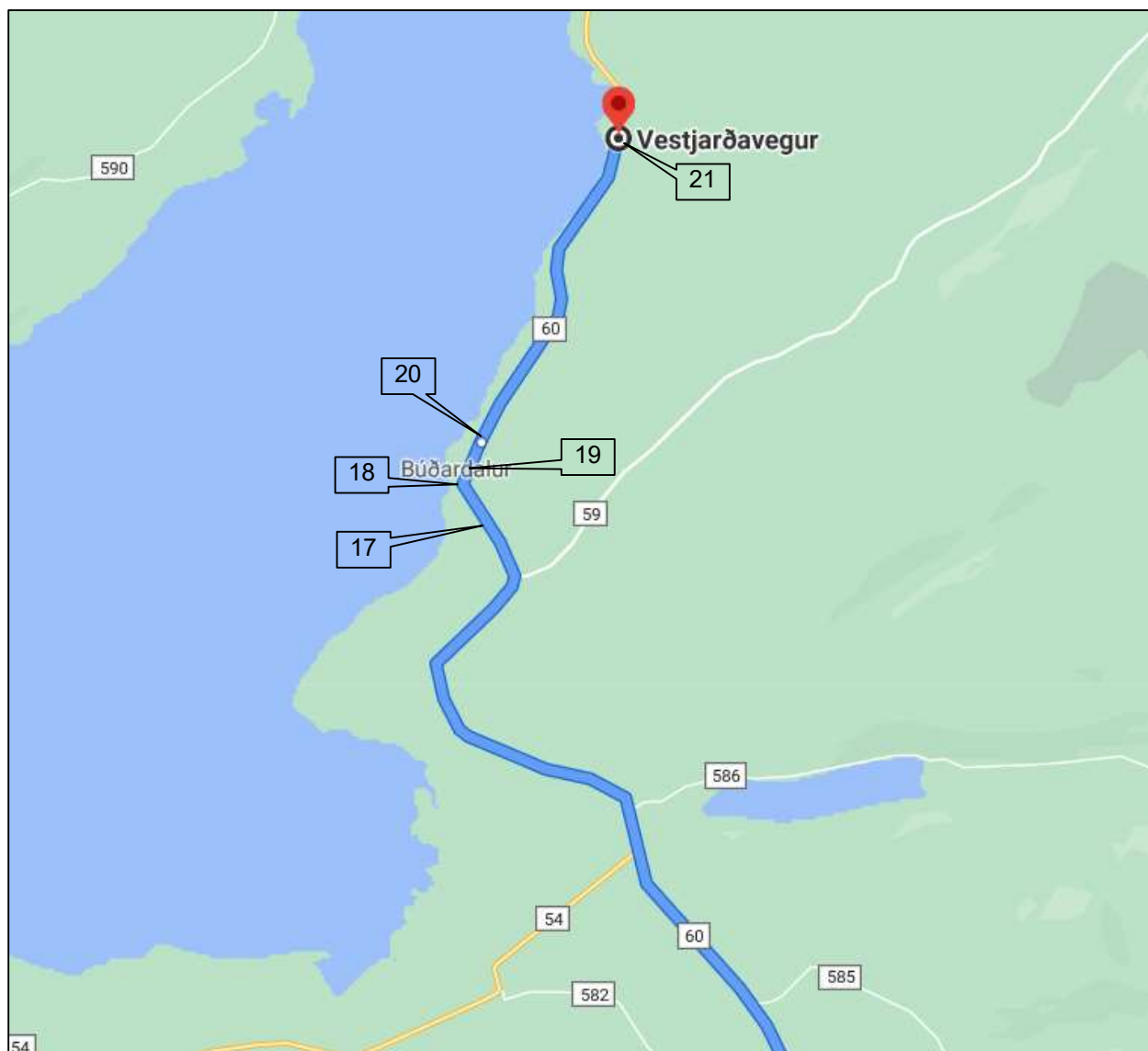
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Detail map 2



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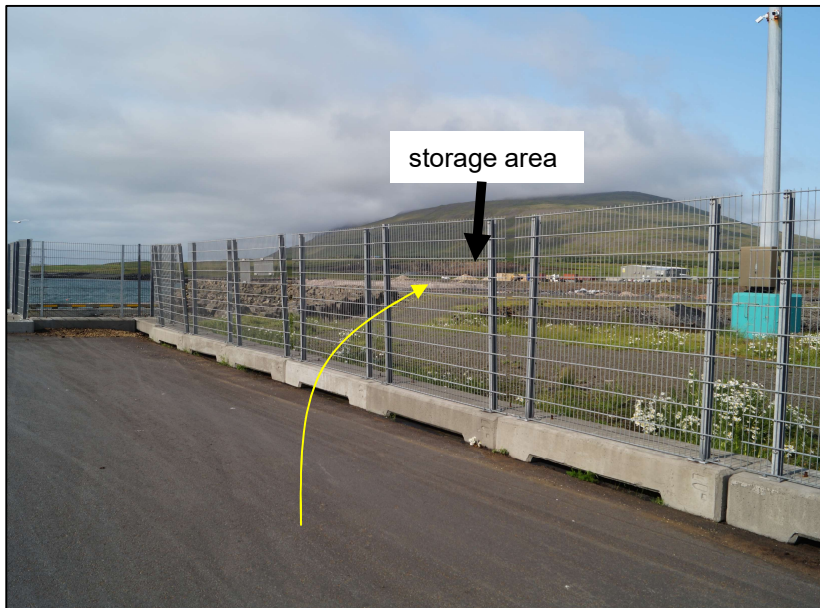
Detail map 3



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6 TRANSPORT SURVEY

Point 1-1 Exit Grundartangi Port.



Actions:

- Ref. to point 1-1, 1-2.
- Info. from the chief of the port It is possible to build a new road between the port and the storage area

Google maps coordinates: 64.353188, -21.782127

<https://goo.gl/maps/tuyEAPFjsXe6rYr96>

Point 1-2



Actions:

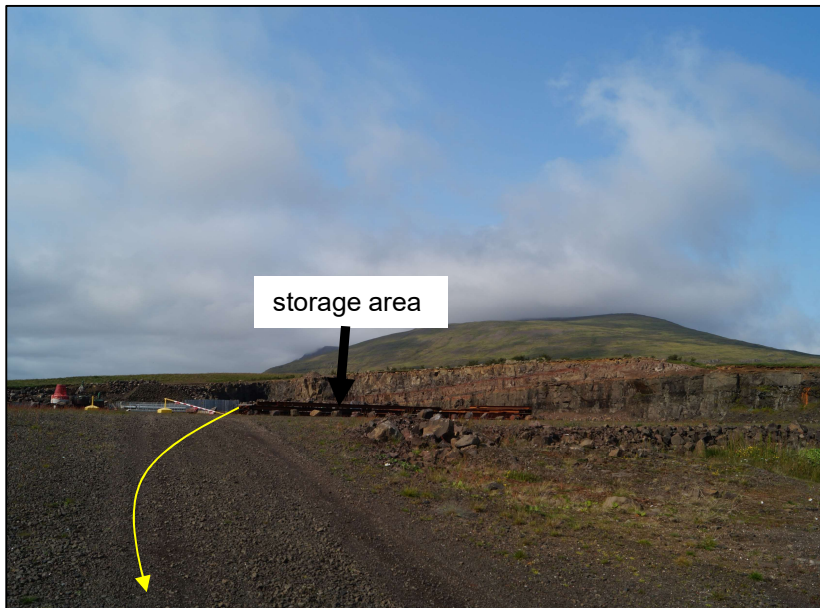
- Ref. to point 1-1, 1-2.

Google maps coordinates:

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6 TRANSPORT SURVEY

Point 2-1 Exit from the storage area.

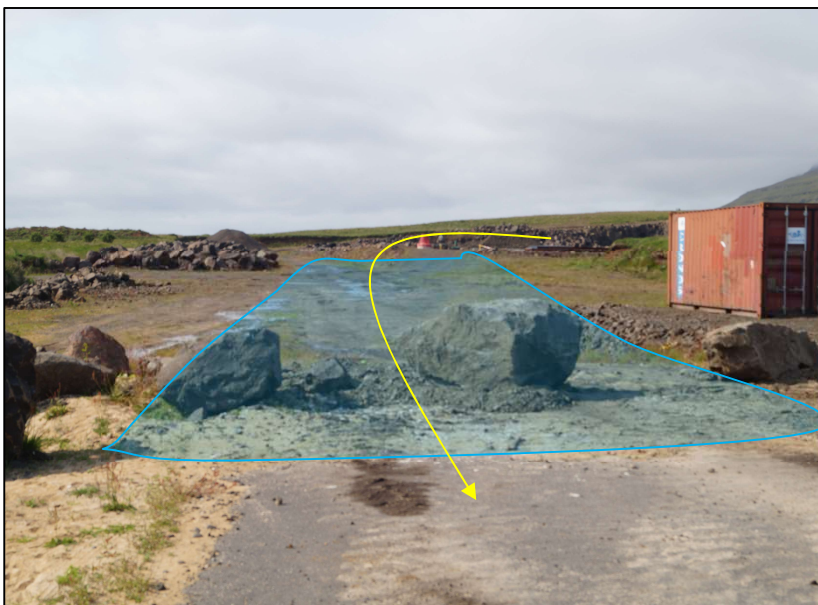


Actions:

- Ref. to point 2-1, 2-2.
- The gravel road between the warehouse and the asphalt road must be raised in the middle to reduce the increase

Google maps coordinates:

Point 2-2



Actions:

- Ref. to point 2-1, 2-2.

Google maps coordinates:

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6 TRANSPORT SURVEY

Point 3-1 Gundartangi Port.



Actions:

- Ref. to point 3-1, 3-2.
- Area marked blue must be made stable to drive on and level with the road
- 1 lamppost must be removed

Google maps coordinates: 64.354846, -21.787569

<https://goo.gl/maps/5Rn5yfVRTJNPtEnL7>

Point 3-2



Actions:

- Ref. to point 3-1, 3-2.

Google maps coordinates:

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6 TRANSPORT SURVEY

Point 4-1 Gundartangi Port.

Turn left by route 506



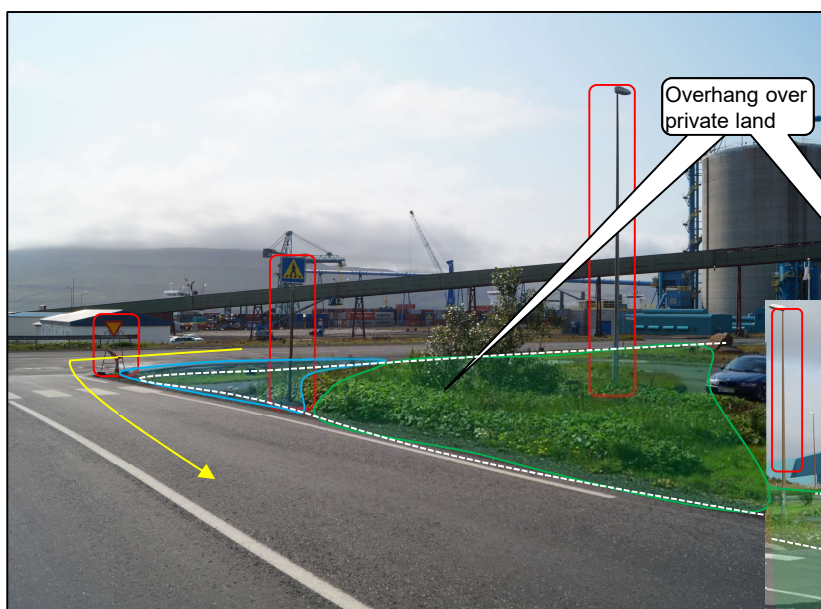
Actions:

- Ref. to point 4-1, 4-2.
- 1 lamppost and 4 signs must be removed
- Area marked blue must be made stable to drive on and level with the road
- Area marked green must be free of overhangs at a maximum height of 50cm from road level

Google maps coordinates: 64.359035, -21.779590

<https://goo.gl/maps/q6XAYsmn8LNHsevTA>

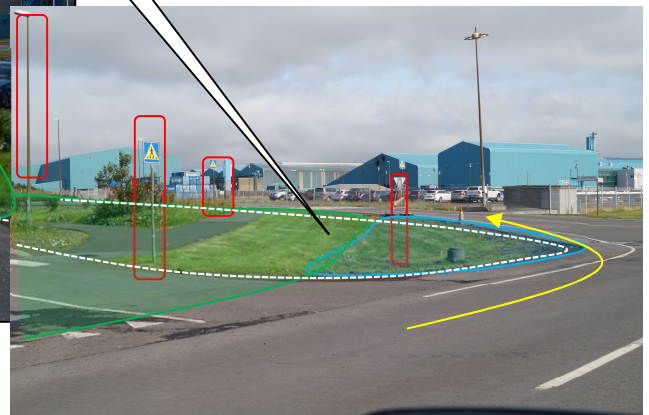
Point 4-2



Actions:

- Ref. to point 4-1, 4-2.

Google maps coordinates:



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6 TRANSPORT SURVEY

Point 5-1 Route 506.



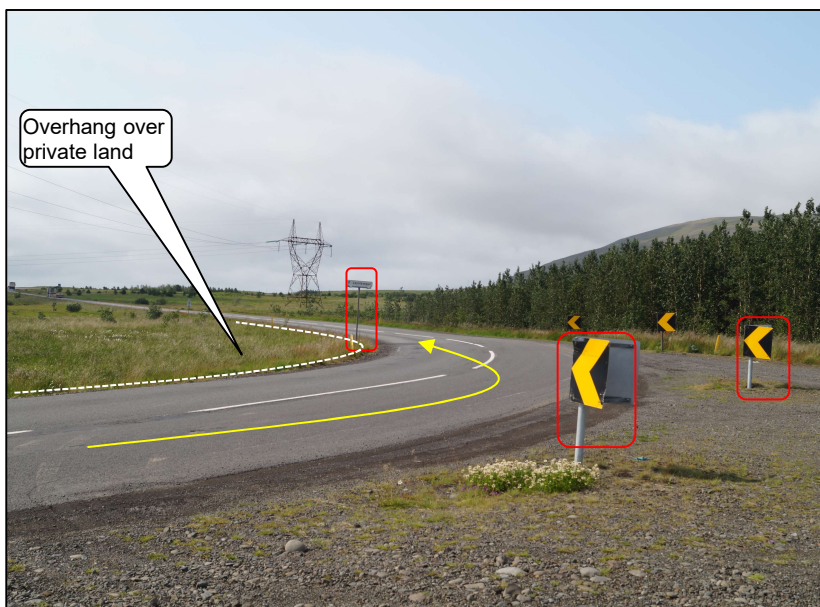
Actions:

- Ref. to point 5-1, 5-2.
- 3 signs must be removed

Google maps coordinates: 64.362574, -21.794352

<https://goo.gl/maps/hspnMMmzSqJtQbq88>

Point 5-2



Actions:

- Ref. to point 5-1, 5-2.

Google maps coordinates:

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6 TRANSPORT SURVEY

Point 6-1 Route 506. Turn right by route 1.



Actions:

- Ref. to point 6-1, 6-2.
- 1 lamppost, 5 signs and 13 yellow poles must be removed

Google maps coordinates: 64.351914, -21.808905

<https://goo.gl/maps/QrHd6Tm8YUbUJGU46>

Point 6-2



Actions:

- Ref. to point 6-1, 6-2.

Google maps coordinates:

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6 TRANSPORT SURVEY

Point 7-1 Route 1.



Actions:

- Has been informed that the bridge is approved for 150T total weight, but this needs to be investigated further



Google maps coordinates: 64.532761, -21.890323

<https://goo.gl/maps/a5r3LZ11tLucNxy78>

Point 8-1 Route 1.



Actions:

- 1 sign must be removed

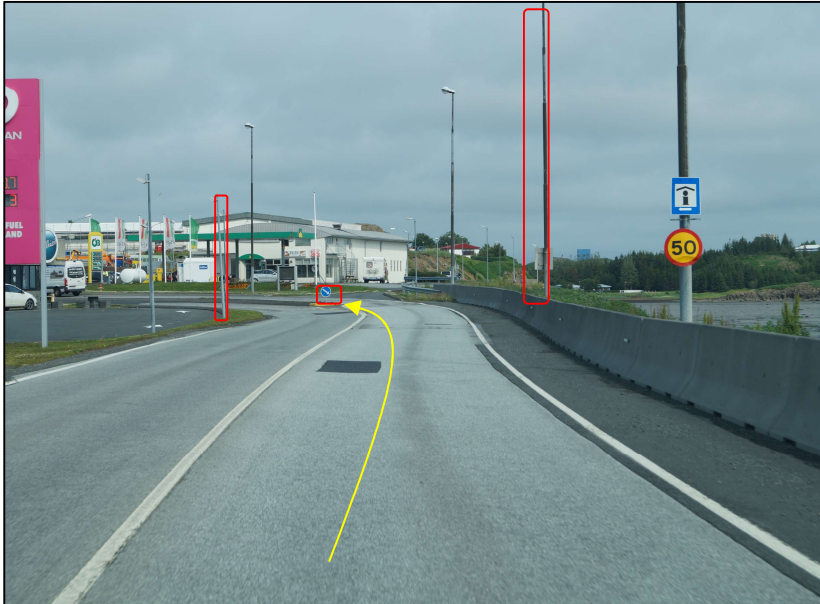
Google maps coordinates: 64.539105, -21.905731

<https://goo.gl/maps/Z7HfiyPvy1ABC4h1A>

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6 TRANSPORT SURVEY

Point 9-1 Route 1.



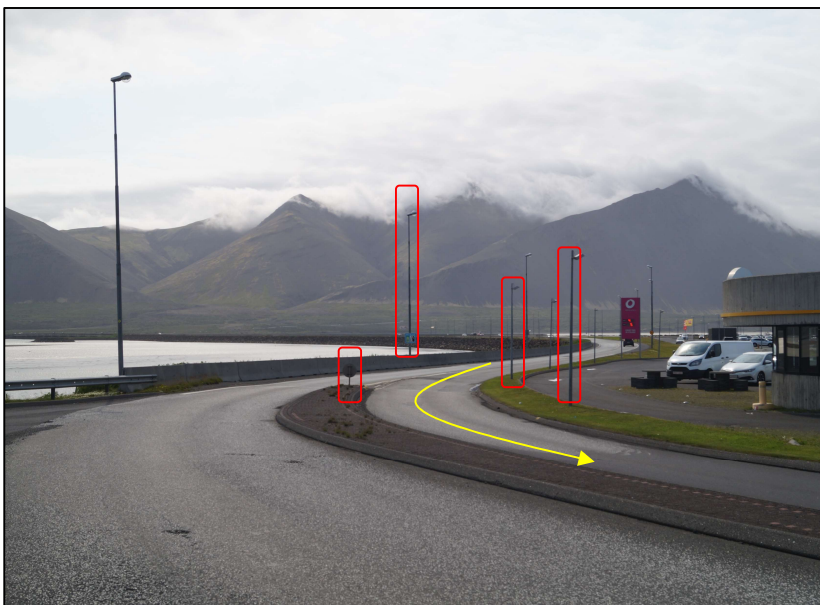
Actions:

- Ref. to point 9-1, 9-2.
- 3 lamppost and 1 sign must be removed

Google maps coordinates: 64.543441, -21.907857

<https://goo.gl/maps/XeGQNsS3i5Aftx489>

Point 9-2 Route 1.



Actions:

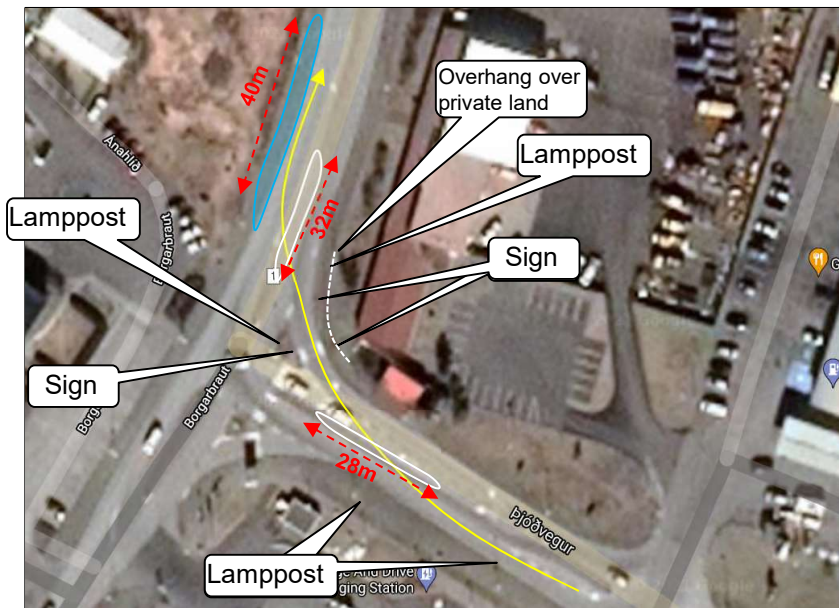
- Ref. to point 9-1, 9-2.

Google maps coordinates:

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6 TRANSPORT SURVEY

Point 10-1 Route 1. Turn right by route 1.



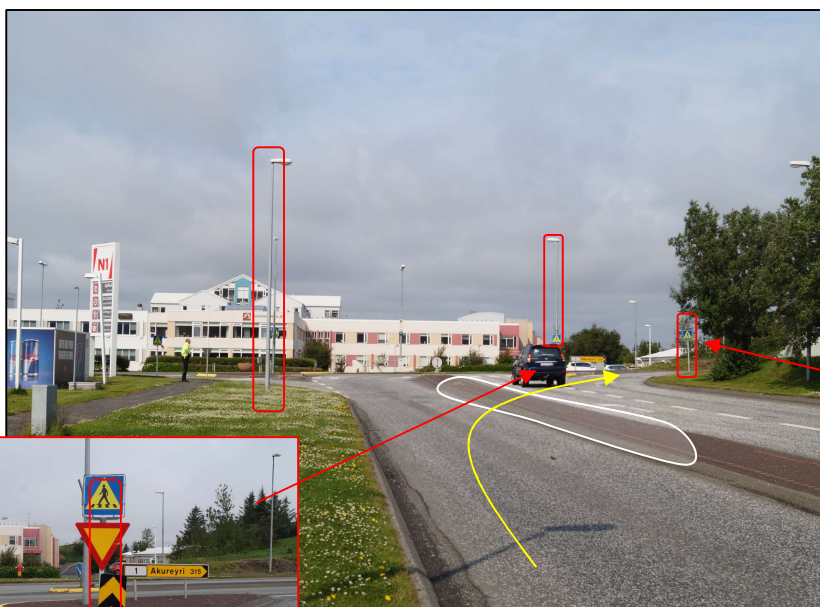
Actions:

- Ref. to point 10-1, 10-2, 10-3, 10-4.
- 4 lamppost and 6 signs must be removed
- Traffic island marked in white must be removed
- Area marked blue must be made stable to drive on and level with the road

Google maps coordinates: 64.544497, -21.910137

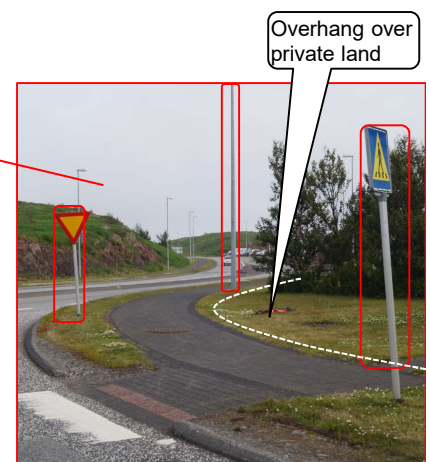
<https://goo.gl/maps/zC8BdBQD4bF1FmwZ6>

Point 10-2 Route 1.



Actions:

- Ref. to point 10-1, 10-2, 10-3, 10-4.



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6 TRANSPORT SURVEY

Point 10-3 Route 1.



Actions:

- Ref. to point 10-1, 10-2, 10-3, 10-4.

Google maps coordinates:

Point 10-4 Route 1.



Actions:

- Ref. to point 10-1, 10-2, 10-3, 10-4.

Google maps coordinates:

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6 TRANSPORT SURVEY

Point 11-1 Route 1.



Actions:

- 2 signs must be removed

Google maps coordinates: 64.549931, -21.909382

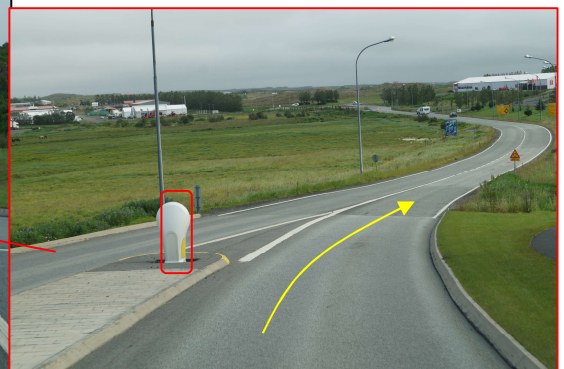
<https://goo.gl/maps/kkW9K8qanDkpzYNT7>

Point 12-1



Actions:

- 2 signs must be removed



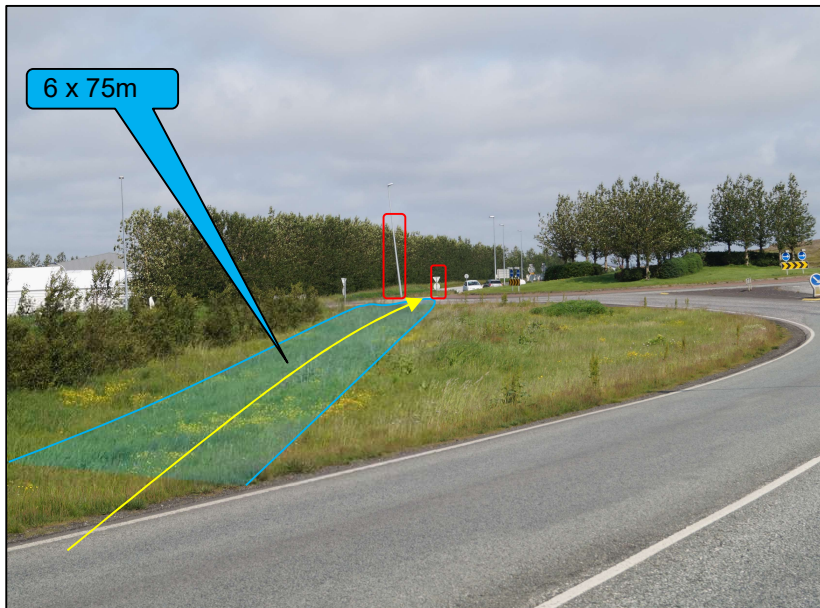
Google maps coordinates: 64.554527, -21.904324

<https://goo.gl/maps/b6yMG5iGhEWVATWo9>

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6 TRANSPORT SURVEY

Point 13-1 Route 1.



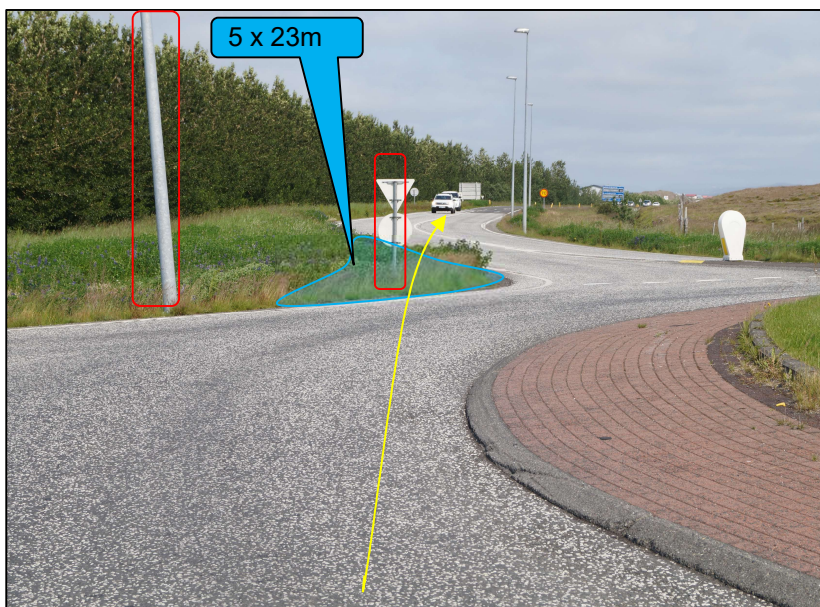
Actions:

- Ref. to point 13-1, 13-2.
- 1 lamppost and 2 signs must be removed
- Area marked blue must be made stable to drive on and level with the road

Google maps coordinates: 64.559917, -21.897760

<https://goo.gl/maps/VveiUNCDJGkueKQK7>

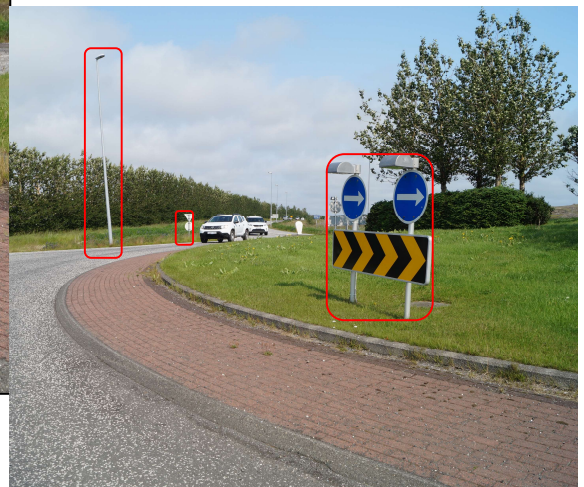
Point 13-2 Route 1.



Actions:

- Ref. to point 13-1, 13-2.

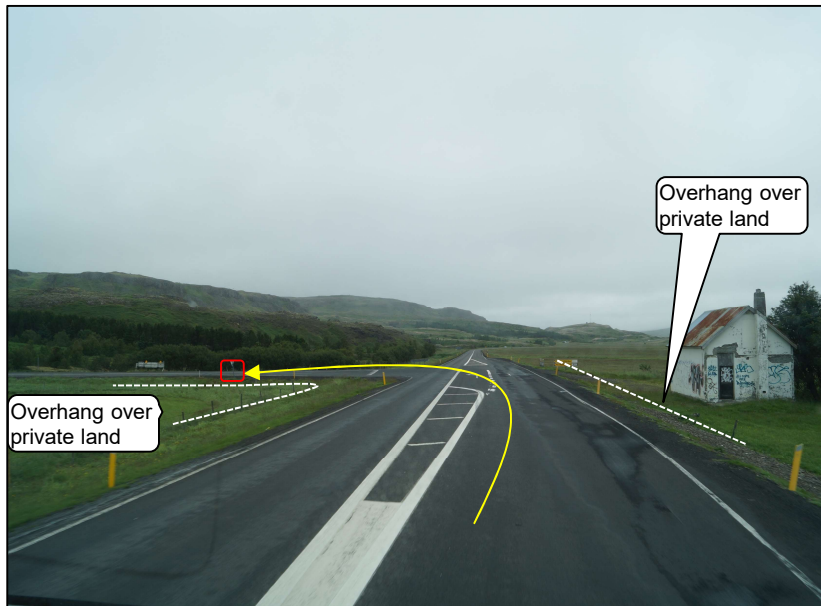
Google maps coordinates:



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6 TRANSPORT SURVEY

Point 14-1 Route 1. Turn left by route 60.



Actions:

- Ref. to point 14-1, 14-2.
- 1 sign must be removed

Google maps coordinates: 64.801017, -21.465012

<https://goo.gl/maps/7F9qigECjF5vhWX6A>

Point 14-2



Actions:

- Ref. to point 14-1, 14-2.

Google maps coordinates:

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6 TRANSPORT SURVEY

Point 15-1 Route 60.



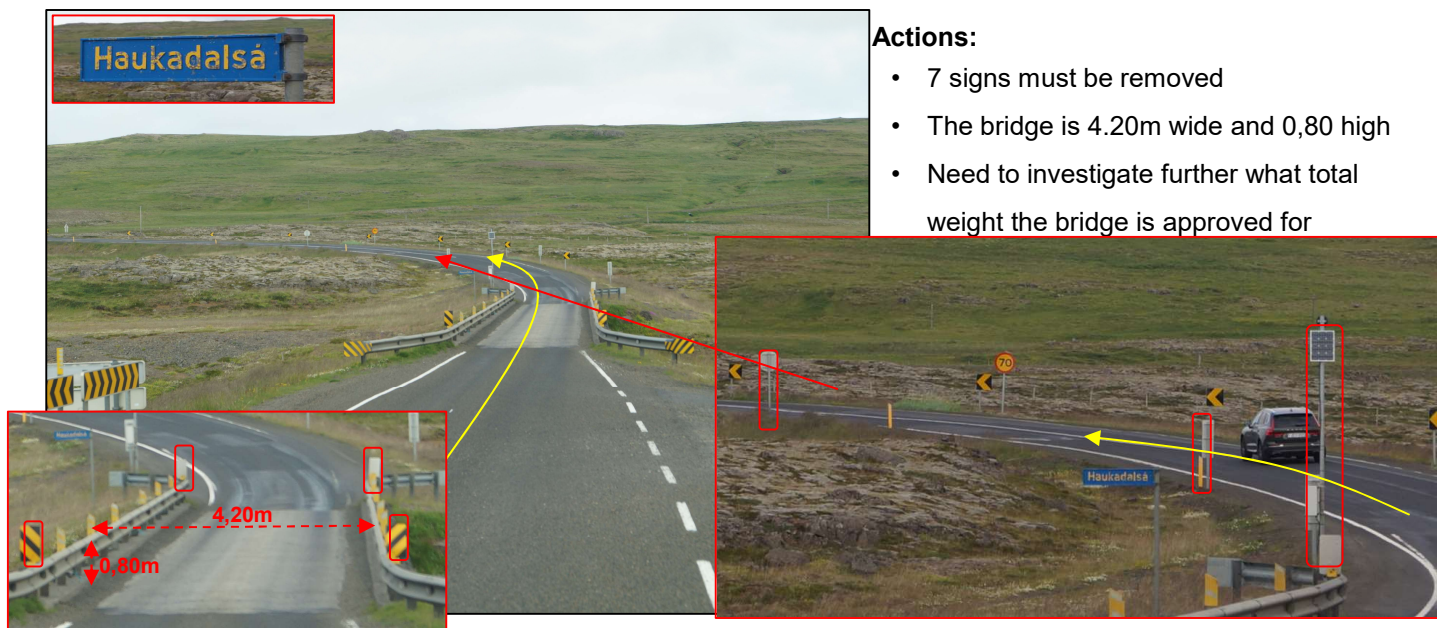
Actions:

- Need to investigate further what total weight the bridge is approved for

Google maps coordinates: 64.833531, -21.488390

<https://goo.gl/maps/UjY7Ks8PAXenQw4R9>

Point 16-1 Route 60.



Actions:

- 7 signs must be removed
- The bridge is 4.20m wide and 0,80 high
- Need to investigate further what total weight the bridge is approved for

Google maps coordinates: 64.975871, -21.565466

<https://goo.gl/maps/4TWAXFbFPs3TGPWa6>

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6 TRANSPORT SURVEY

Point 17-1 Route 60.



Actions:

- Need to investigate further what total weight the bridge is approved for

Google maps coordinates: 65.097392, -21.752865

<https://goo.gl/maps/YnCA5VHFfGitXsbJ7>

Point 18-1 Route 60.



Actions:

- 2 signs must be removed

Google maps coordinates: 65.105408, -21.764901

<https://goo.gl/maps/a2HBkrarvbMuXiEY9>

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6 TRANSPORT SURVEY

Point 19-1 Route 60.



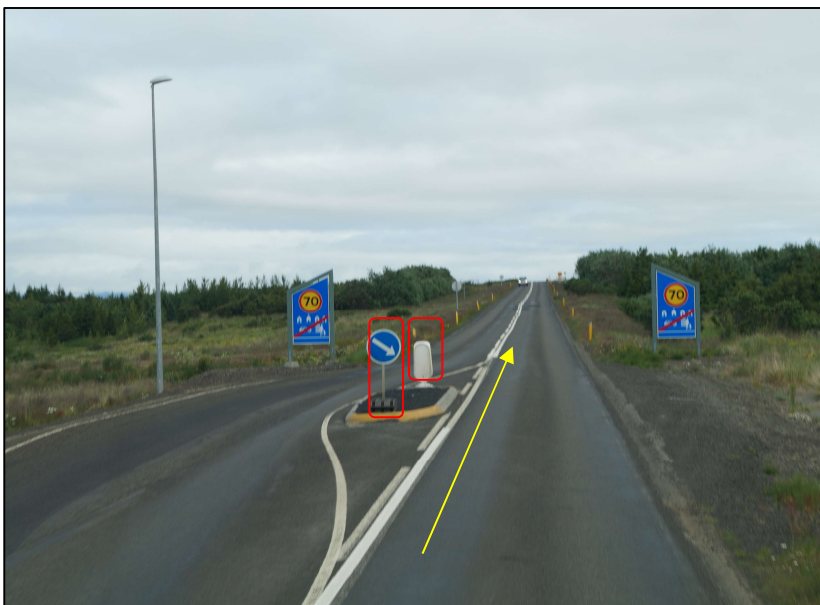
Actions:

- Ref. to point 19-1, 19-2.
- 4 signs must be removed

Google maps coordinates: 65.108118, -21.763419

<https://goo.gl/maps/ms5uuaLWFQssCzKk8>

Point 19-2



Actions:

- Ref. to point 19-1, 19-2.

Google maps coordinates: 65.112631, -21.758256

<https://goo.gl/maps/H2hrzuAq8dgisTgY7>

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6 TRANSPORT SURVEY

Point 20-1 Route 60. Turn right to site, site entrance .



Actions:

- Ref. to point 20-1, 20-2.
- **Relevant Route Point!**
- The relevant route point must be according to SGRE requirements further investigation related to site entrance or the route ahead has not been preformed.

Google maps coordinates: 65.116683, -21.753474

<https://goo.gl/maps/5dj7pgvH1yfE7czp7>

Point 20-2



Actions:

- Ref. to point 20-1, 20-2.

Google maps coordinates:

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6 TRANSPORT SURVEY

Point 21-1 Route 60. Turn right to site, site entrance .



Actions:

- Ref. to point 21-1, 21-2.
- **Relevant Route Point!**
- The relevant route point must be according to SGRE requirements further investigation related to site entrance or the route ahead has not been preformed.

Google maps coordinates: 65.163086, -21.703514

<https://goo.gl/maps/7JAYHrmC6DcqH1j5A>

Point 21-2



Actions:

- Ref. to point 21-1, 21-2.

Google maps coordinates:

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7 CONCLUSION

Certain road modifications are required in a rather Middle extend in order to enable the feasibility the delivery of Key Components to the site. Such required route modifications identified in this Transport Survey are a precondition for the delivery of SG 155 WGT TYPE turbines to the Site.

The final Access Route as set out in this document is subject to confirmation and issuance of the relevant transportation permits by the relevant public authorities.

8 NEXT STEPS

Application for dummy permits

Calculation of bridges

Quote for Road modifications

Etc.