



Scottish and Southern Electricity Networks

FANELLAN HUB 400KV SWITCHING STATION AND HVDC CONVERTER STATION

Volume 4, Appendix 12.2 Transport Assessment - Appendix A - Part 1





Scottish and Southern Electricity Networks

FANELLAN HUB 400KV SWITCHING STATION AND HVDC CONVERTER STATION

Volume 4, Appendix 12.2 Transport Assessment - Appendix
A - Part 1

TYPE OF DOCUMENT (VERSION) PUBLIC

PROJECT NO. 70112533

OUR REF. NO. 70112533TP1

DATE: FEBRUARY 2025



Scottish and Southern Electricity Networks

FANELLAN HUB 400KV SWITCHING STATION AND HVDC CONVERTER STATION

Volume 4, Appendix 12.2 Transport Assessment - Appendix
A - Part 1

WSP

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QUALITY CONTROL

Issue/revision	First issue	Revision 1	Revision 2	Revision 3
Remarks	Issue			
Date	04/03/2025			
Prepared by	Sophie Christie			
Signature				
Checked by	Paul White			
Signature				
Authorised by	Paul White			
Signature				
Project number	70112533			
Report number	TP1			
File reference	70112533TP1			

Appendix A

DRAWINGS
(PART 1)





APPENDIX A – DRAWINGS (PART 1)

Contents

TEMPORARY SITE LAYOUT (Frame 1)

DRAWING Ref: FNLN4-LT459-SEBAM-ZZ-EXT-D-C-0155

TEMPORARY SITE LAYOUT (Frame 2)

DRAWING Ref: FNLN4-LT459-SEBAM-ZZ-EXT-D-C-0156

PERMANENT SITE LAYOUT

DRAWING Ref: LT459-SWE-XX-XX-D-X-0004

PHASE 1 AIL POTENTIAL CONSTRAINT ON B9169 – FRAME 1 AND 2

DRAWING Ref: SPA_001

PHASE 1 AIL POTENTIAL CONSTRAINT ON B9169 – FRAME 3 AND 4

DRAWING Ref: SPA_002

PHASE 1 HGV POTENTIAL CONSTRAINT ON B9169 / A832

DRAWING Ref: SPA_001

PHASE 1 HGV POTENTIAL CONSTRAINT ON B9169 / A862

DRAWING Ref: SPA_002

PHASE 1 AIL POTENTIAL CONSTRAINT ON A862 – FRAME 5 AND 6

DRAWING Ref: SPA_003

PHASE 1 AIL POTENTIAL CONSTRAINT ON A862 – FRAME 7 AND 8

DRAWING Ref: SPA_004

PHASE 1 AIL POTENTIAL CONSTRAINT ON A833 – FRAME 9 AND 10

DRAWING Ref: SPA_005

PHASE 1 AIL POTENTIAL CONSTRAINT ON A833 AND C1108– FRAME 11 AND 12

DRAWING Ref: SPA_006

PHASE 1 AIL POTENTIAL CONSTRAINT ON C1108 – FRAME 13 AND 14

DRAWING Ref: SPA_007



Permanent Suds Basin to be used in Temporary Drainage Design approx Volume 4500m³

Permanent Suds Basin to be used in Temporary Drainage Design approx Volume 12800m³

Indicative Settlement Lagoon approx. 6500m³ Volume

Permanent Suds Basin to be used in Temporary Drainage Design approx Volume 5700m³

Indicative Settlement Lagoon approx. 4500m³ Volume

Indicative Settlement Lagoon approx. 850m³ Volume

Indicative Settlement Lagoon approx. 4100m³ Volume

Indicative Settlement Lagoon approx. 4600m³ Volume

Ditch routing through existing trees to suit local topography to be agreed.

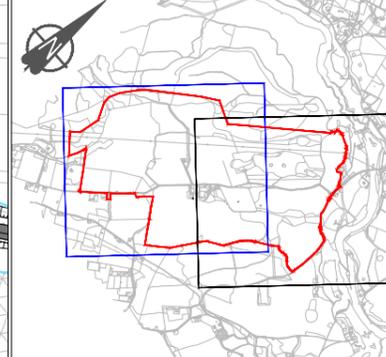
Proposed Temporary Soakaway to be agreed.

- NOTES:-
1. This drawing shall only be used for the design element stated in the drawing title.
 2. Only written dimensions shall be used.
 3. All dimensions are in metres unless noted otherwise.
 4. This drawing shall only be used for construction of the works when certified as acknowledged by Scottish and Southern Electricity Networks and upon relevant third party consultation certification
 5. Temporary drainage proposals for the permanent arrangement (substation platform, permanent tracks, OHL platforms etc) to be finalised upon coordination with SWECO permanent drainage design, to align with SWECO drainage strategy.
 6. Proposed outfall locations from temporary settlement lagoons to be agreed.
 7. All temporary drainage proposals and details to be finalised at detailed design.
 8. Temporary settlement lagoons to be confirmed upon GI results.
 9. Proximities between temporary drainage infrastructure and existing watercourses to be agreed.

LEGEND:-

OVERHEAD LINES	
OVERHEAD LINES TOWER	
SITE BOUNDARY	
DRAINAGE	
TEMPORARY WORKING AREAS	

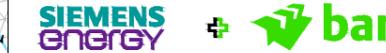
FANELLAN SHEET LOCATION PLAN 1:30000



P01	06/12/24	SM	SB	CG	FIRST ISSUE
REV:	DATE:	DRWN:	CHKD:	APPRV:	DESCRIPTION:

STATUS: S5 ISSUED FOR FINAL REVIEW

CONTRACTOR:



Joint Venture
Substation Delivery
Framework



PROJECT: LT459-FANELLAN 400KV SUBSTATION

PROJECT NUMBER: FNLN4-LT459 LOCATION: FANELLAN

TITLE: TEMPORARY SITE LAYOUT SHEET 1 OF 2

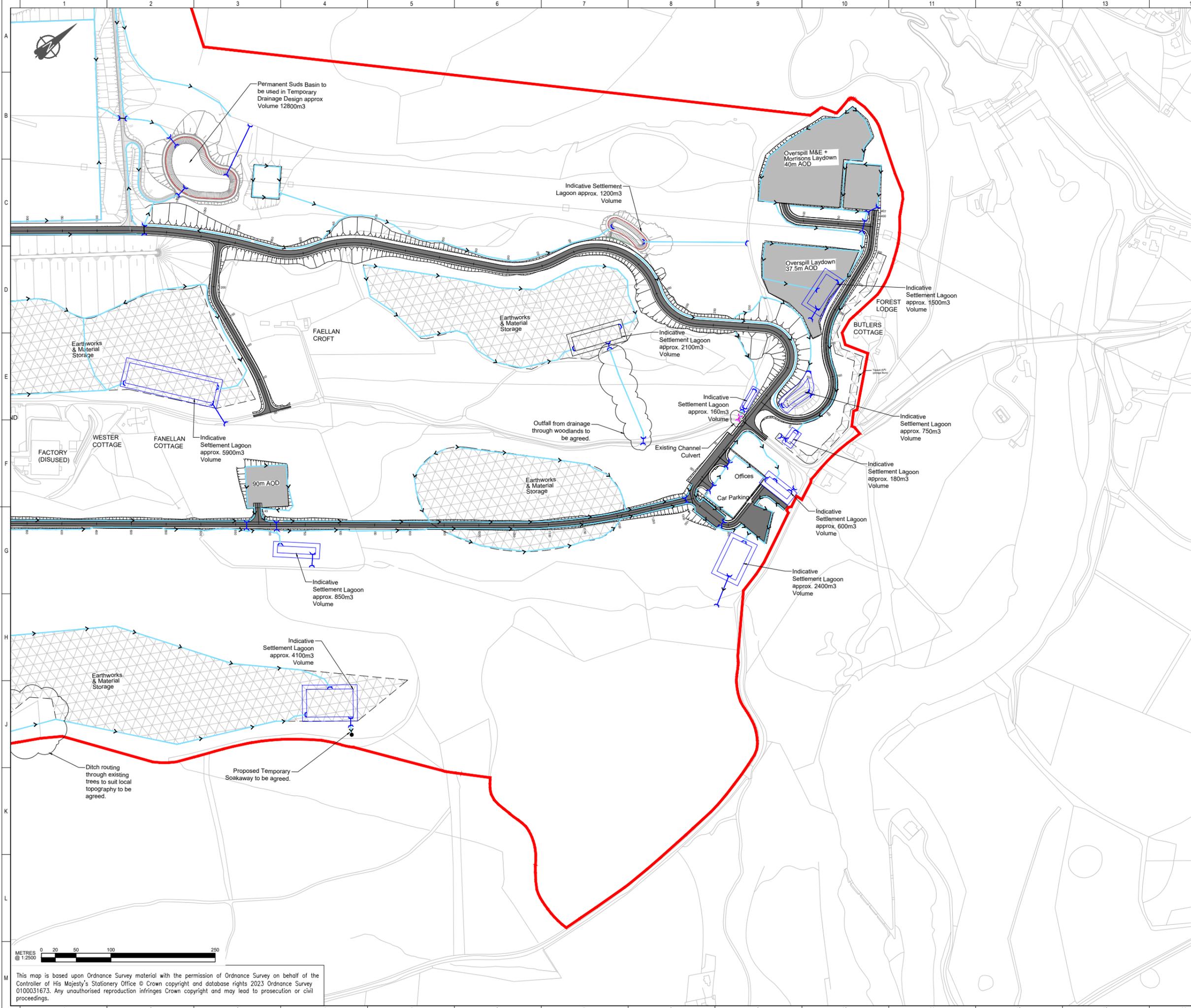
DRAWN: S. MILLAR	ENG CHECK: S. BURNS
DESIGNER: K. HERING	COORDINATION: R. YOUNG
SCALE: 1:2500	APPROVED: C. GEDDES
DATE OF FIRST ISSUE: 06/12/2024	SECURITY:

ORIGINATOR DRAWING NUMBER: FNLN4-LT459-SEBAM-ZZ-EXT-D-C-0155	SHEET No: 1 of 2
CLIENT DRAWING NUMBER: FNLN4-LT459-SEBAM-ZZ-EXT-D-C-0155	REV. No.: P01



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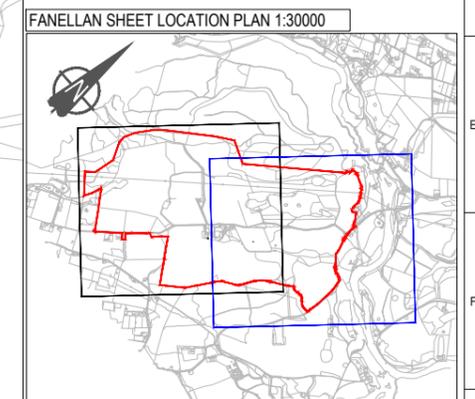
File Name: J:\060801 - Sewer/Drainage\0158 - Sewer\FNLN4-LT459-SEBAM-ZZ-EXT-D-C-0155 - 08a.rvt



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 8. Temporary settlement lagoons to be confirmed upon GI results.
 9. Proximities between temporary drainage infrastructure and existing watercourses to be agreed.

LEGEND:-

OVERHEAD LINES	
OVERHEAD LINES TOWER	
SITE BOUNDARY	
DRAINAGE	
TEMPORARY WORKING AREAS	



NO.	REV.	DATE	DRWN	CHKD	APPVD	DESCRIPTION

STATUS: **S5 ISSUED FOR FINAL REVIEW**

CONTRACTOR:

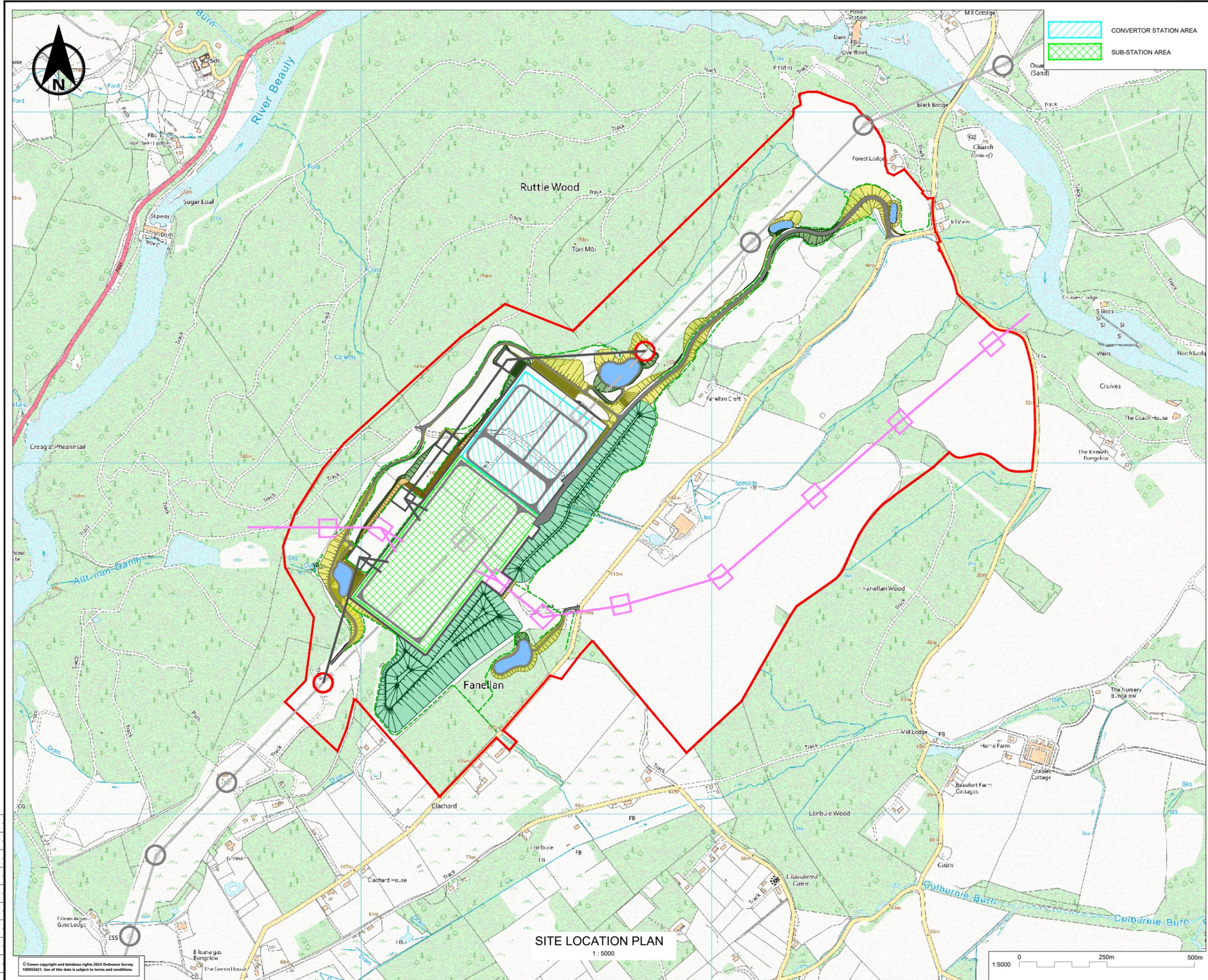
Joint Venture
Substation Delivery Framework

CLIENT:

TRANSMISSION

PROJECT: LT459-FANELLAN 400KV SUBSTATION	
PROJECT NUMBER: FNLN4-LT459	LOCATION: FANELLAN
TITLE: TEMPORARY SITE LAYOUT SHEET 2 OF 2	
DRAWN: S. MILLAR	ENG CHECK: S. BURNS
DESIGNER: K. HERING	COORDINATION: R. YOUNG
SCALE: 1:2500	APPROVED: C. GEDDES
DATE OF FIRST ISSUE: 06/12/2024	SECURITY:
ORIGINATOR DRAWING NUMBER: FNLN4-LT459-SEBAM-ZZ-EXT-D-C-0156	SHEET No: 2 of 2
CLIENT DRAWING NUMBER: FNLN4-LT459-SEBAM-ZZ-EXT-D-C-0156	REV. No: P01

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NOTES

- The Planning Red Line Boundary includes the proposed platform together with all other potential site requirements, including site compounds, drainage, access, parking, laydown and storage areas and landscaping proposals. Many of these requirements will be temporary and will be permanently removed upon completion. The temporary requirements are indicative at this stage and are subject to change as the construction phase is developed.

LEGEND

- Proposed Fanellan 400kV Substation and Converter**
- Indicative Planning Red Line Boundary
 - Substation Boundary
- Drainage**
- New SuDS Basin
 - New Indicative Cut-Off Ditch
- Landscape and Visual Mitigation**
- Landform Providing Visual Screening
- Access and Earthworks**
- New Access Tracks and Roads
 - Cut Earthworks Slope
 - Fill Earthworks Slope
 - Rock Cut Earthworks Slope
- Proposed Beauty - Denny OHL Diversion (separate S37 consent)**
- New Tower
 - Existing Tower to be Removed
 - Existing Tower to be Replaced
 - Existing Tower to be Retained
 - New OHL
 - Existing OHL to be Retained
 - Existing OHL to be Removed
- Proposed new 400kV Overhead Lines from Spittal and Peterhead (separate S37 consents)**
- Potential New Tower Location
 - Potential OHL Alignments

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Project Title
**FANELLAN
400kV SUBSTATION AND
CONVERTER STATION**

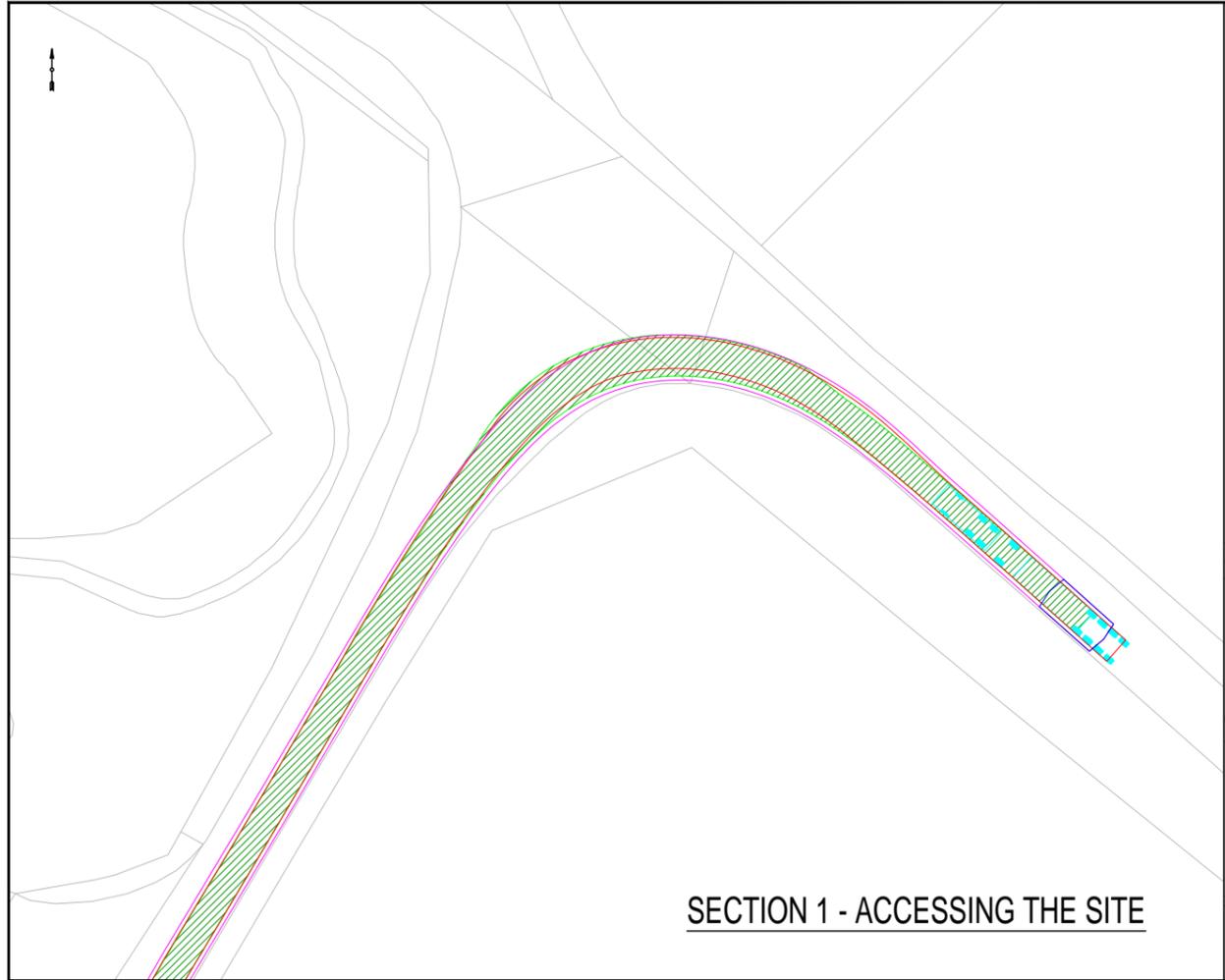
Figure 3.1: Proposed Development

Purpose Of Issue
FOR CONSULTATION

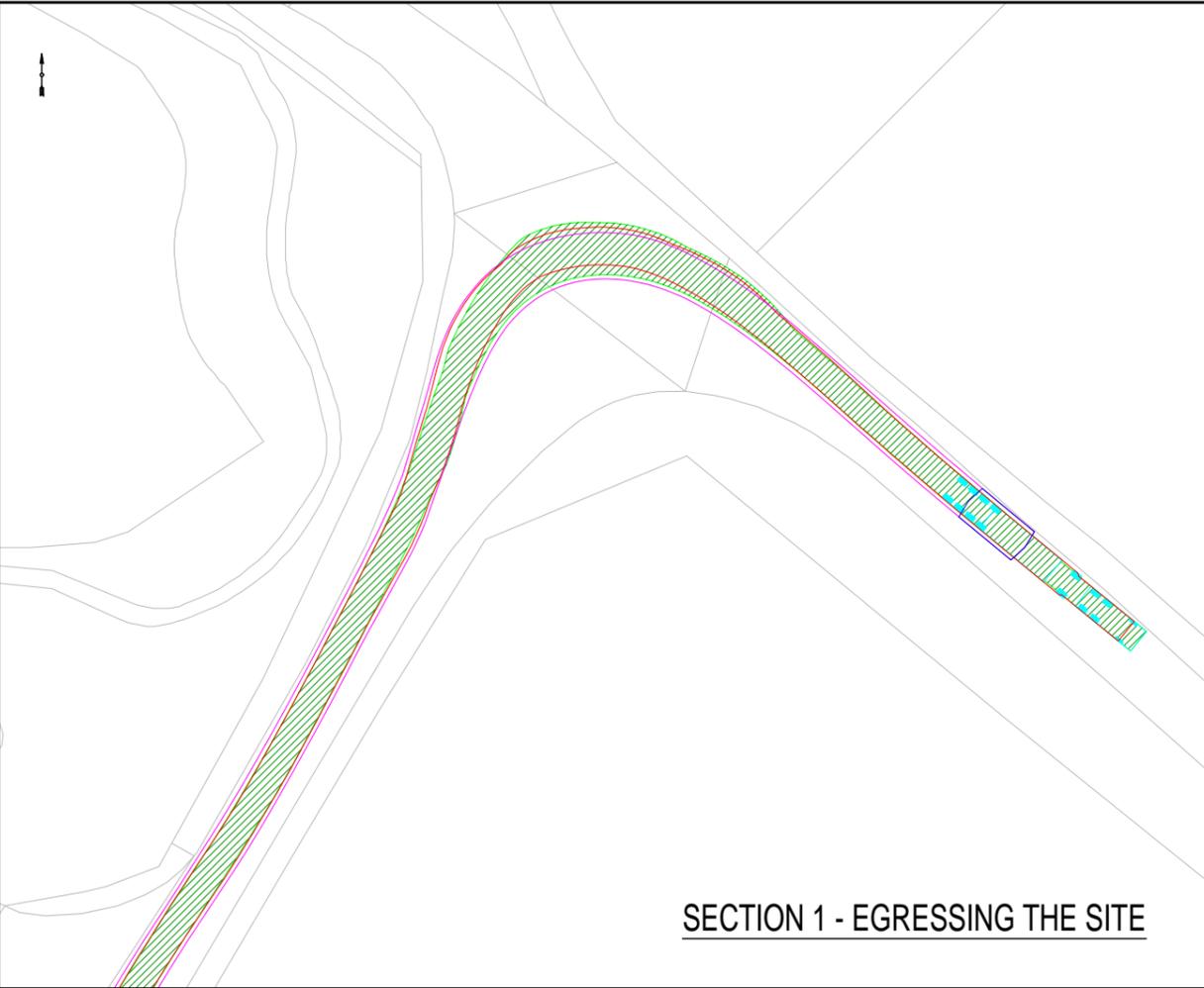
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Drawing Number
LT459-SWE-XX-XX-D-X-0004

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SECTION 1 - ACCESSING THE SITE



SECTION 1 - EGRESSING THE SITE



SECTION 2 - ACCESSING THE SITE

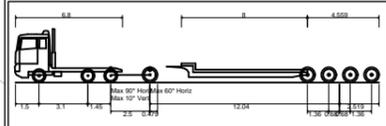
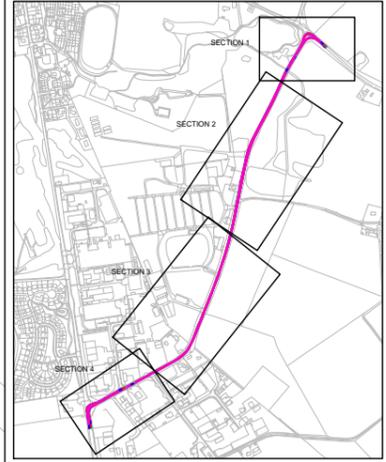


SECTION 2 - EGRESSING THE SITE

DO NOT SCALE

LEGEND:

- VEHICLE/TRAILER OUTLINE
- WHEEL TRACKED PATHWAY
- OVERSAIL OF EXCAVATOR



23m Low loader C29S Delivery vehicle	23.109m
Overall Length	2.700m
Overall Width	3.390m
Overall Body Height	0.315m
Min Body Ground Clearance	2.740m
Max Track Width	4.000m
Lock to lock time	8.500m
Kerb to Kerb turning Radius	

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ARCHITECT:

SITE PROJECT: FANELLAN HUB 400K SWITCHING STATION AND HVAC CONVERTOR STATION

TITLE: TRANSPORT ASSESSMENT - SWEEP PATH ANALYSIS SECTION 1 & 2

SCALE @ AT: NTS	CHECKED: SC	APPROVED: PW
PROJECT NO: 70112533	DESIGNED: -	DRAWN: CB
		DATE: February 25

DRAWING NO: SPA_001	REV: P01
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SECTION 3 - ACCESSING THE SITE



SECTION 3 - EGRESSING THE SITE



SECTION 4 - ACCESSING THE SITE

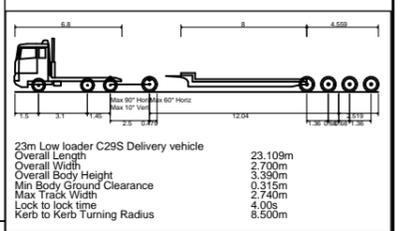
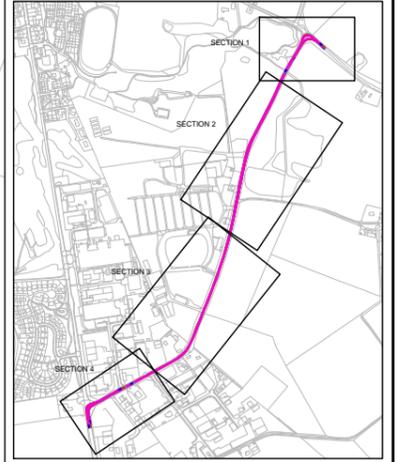


SECTION 4 - EGRESSING THE SITE

DO NOT SCALE

LEGEND:

- VEHICLE/TRAILER OUTLINE
- WHEEL TRACKED PATHWAY
- OVERSAIL OF EXCAVATOR



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TITLE: **TRANSPORT ASSESSMENT - SWEEP PATH ANALYSIS SECTION 3 & 4**

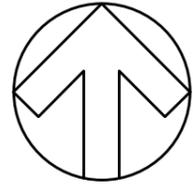
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				DATE:	February 25

DRAWING NO:	SPA_002	REV:	P01
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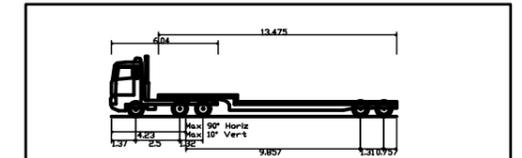


SITE ACCESS

DO NOT SCALE

LEGEND:

- VEHICLE/TRAILER OUTLINE
- WHEEL TRACKED PATHWAY



Low Loader	
Overall Length	16.154m
Overall Width	2.500m
Overall Body Height	3.393m
Min Body Ground Clearance	0.318m
Max Track Width	2.500m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	6.990m

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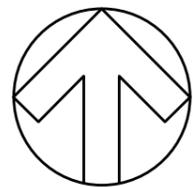
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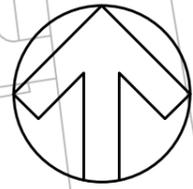
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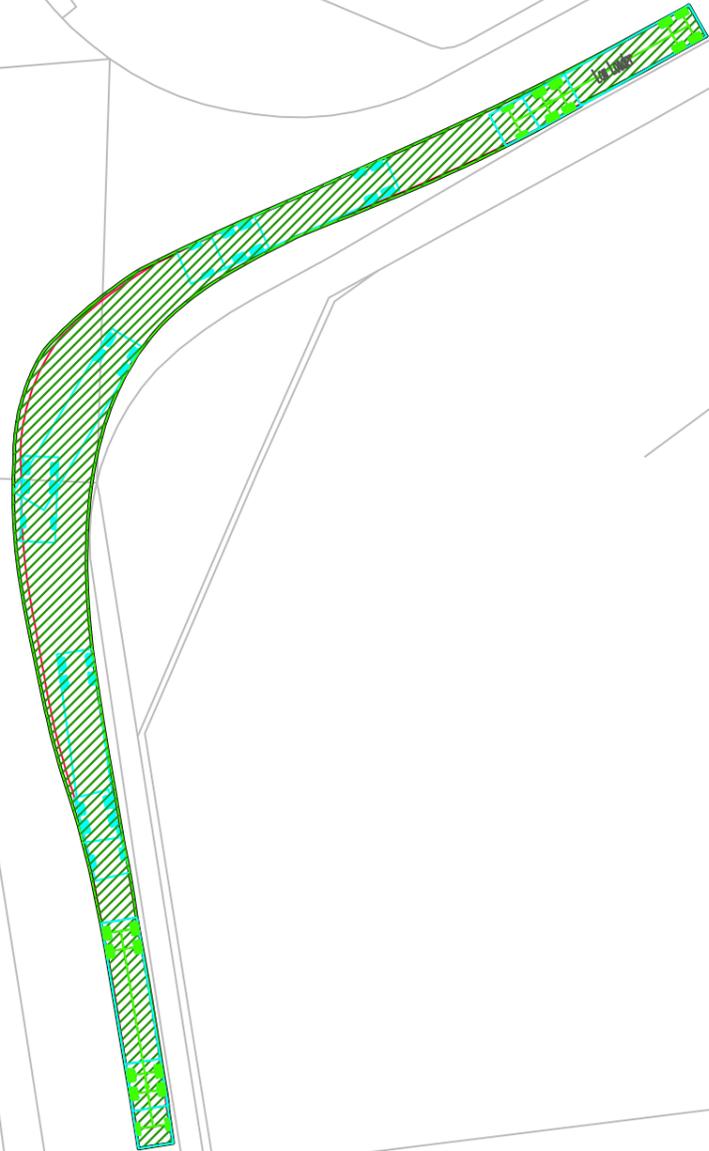
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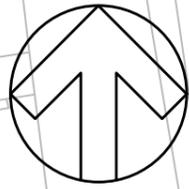
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B9169



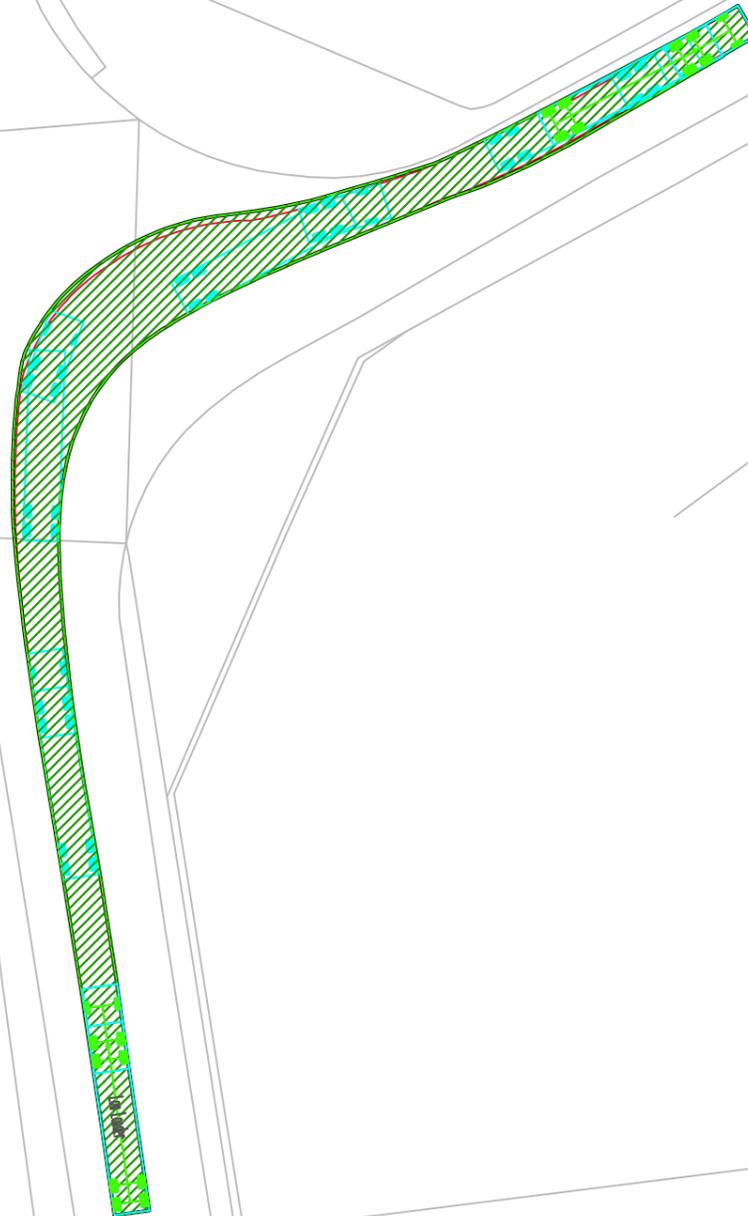
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SITE ACCESS



A862

B9169



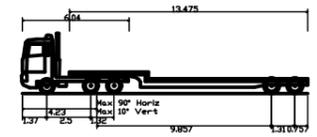
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SITE EGRESS

DO NOT SCALE

LEGEND:

- VEHICLE/TRAILER OUTLINE
- WHEEL TRACKED PATHWAY



Low Loader	
Overall Length	16.154m
Overall Width	2.520m
Overall Body Height	2.393m
Min Body Ground Clearance	0.318m
Max Track Width	2.500m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	6.990m

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PROJECT: FANELLAN HUB 400KV SWITCHING STATION AND HVDC CONVERTER STATION

TITLE: TRANSPORT ASSESSMENT - SWEEP PATH ANALYSIS A862 / B9169

SCALE @ A3: NTS	CHECKED: SC	APPROVED: SC
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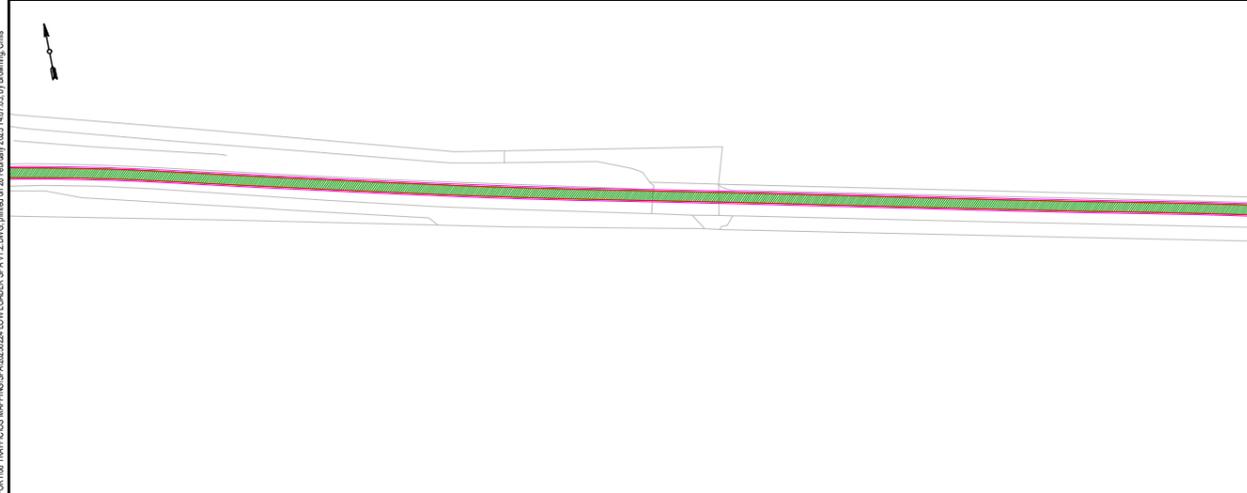
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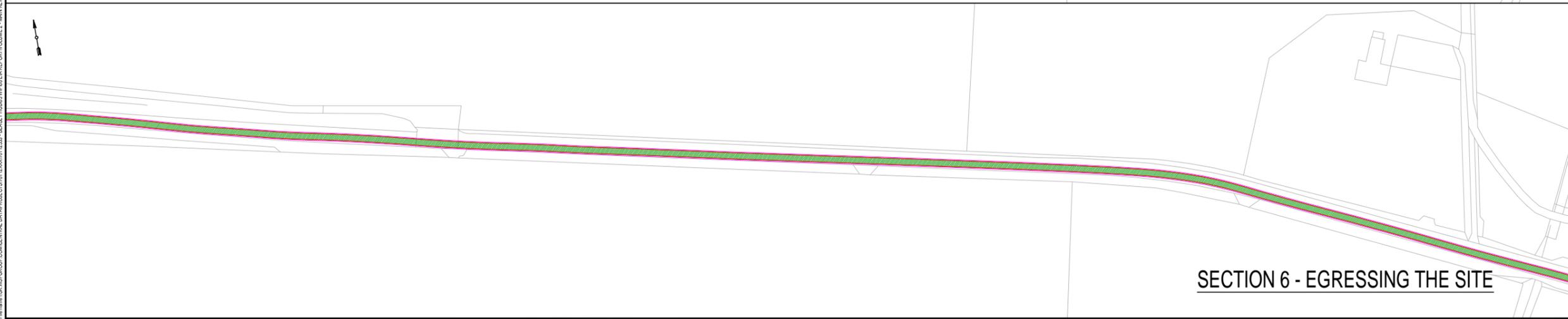
SECTION 5 - ACCESSING THE SITE



SECTION 5 - EGRESSING THE SITE



SECTION 6 - ACCESSING THE SITE

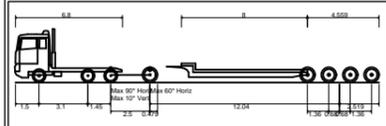
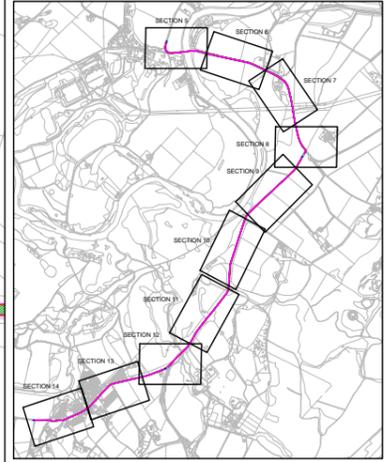


SECTION 6 - EGRESSING THE SITE

DO NOT SCALE

LEGEND:

- VEHICLE/TRAILER OUTLINE
- WHEEL TRACKED PATHWAY
- OVERSAIL OF EXCAVATOR



23m Low loader C29S Delivery vehicle		23.109m
Overall Length		23.109m
Overall Width		2.700m
Overall Body Height		3.390m
Min Body Ground Clearance		0.315m
Max Track Width		2.740m
Lock to lock time		4.00s
Kerb to Kerb turning Radius		8.500m

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CLIENT: **SCOTTISH AND SOUTHER ELECTRICTY NETWORKS**

ARCHITECT:
 SITE PROJECT: **FANELLAN HUB 400K SWITCHING STATION AND HVAC CONVERTOR STATION**

TITLE: **TRANSPORT ASSESSMENT - SWEEP PATH ANALYSIS SECTION 5 & 6**

SCALE @ AT:	NTS	CHECKED:	SC	APPROVED:	PW	
PROJECT NO:	70112533	DESIGNED:	-	DRAWN:	CB	
				DATE:	February 25	
DRAWING NO:	SPA_003				REV:	P01
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SECTION 7 - ACCESSING THE SITE



SECTION 7 - EGRESSING THE SITE



SECTION 8 - ACCESSING THE SITE

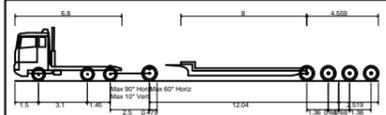
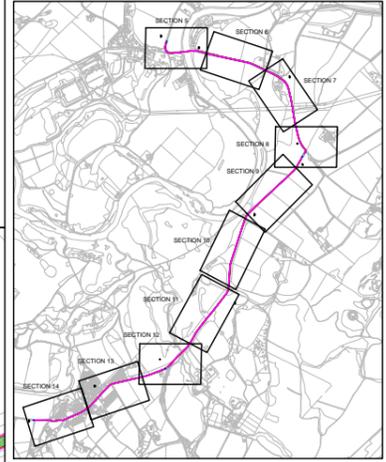


SECTION 8 - EGRESSING THE SITE

DO NOT SCALE

LEGEND:

- VEHICLE/TRAILER OUTLINE
- WHEEL TRACKED PATHWAY
- OVERSAIL OF EXCAVATOR



23m Low loader C29S Delivery vehicle
 Overall Length 23.109m
 Overall Width 2.700m
 Overall Body Height 3.390m
 Min Body Ground Clearance 0.315m
 Max Track Width 2.740m
 Lock to lock time 4.00s
 Kerb to Kerb Turning Radius 8.500m

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CLIENT: SCOTTISH AND SOUTHER ELECTRICTY NETWORKS

ARCHITECT:

SITE/PROJECT: FANELLAN HUB 400K SWITCHING STATION AND HVAC CONVERTOR STATION

TITLE: TRANSPORT ASSESSMENT - SWEEP PATH ANALYSIS SECTION 7 & 8

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PROJECT NO: 70112533	DESIGNED: -	DRAWN: CB
		DATE: February 25

DRAWING NO: SPA_004	REV: P01
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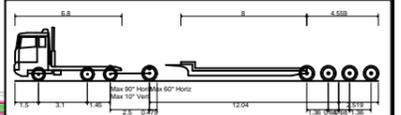
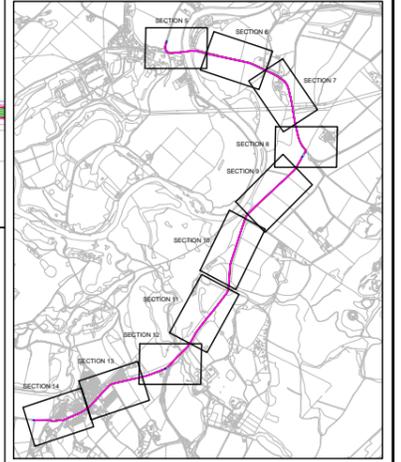
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DO NOT SCALE

- LEGEND:**
- VEHICLE/TRAILER OUTLINE
 - WHEEL TRACKED PATHWAY
 - OVERSAIL OF EXCAVATOR



23m Low loader C29S Delivery vehicle	23.109m
Overall Length	23.109m
Overall Width	2.700m
Overall Body Height	3.390m
Min Body Ground Clearance	0.315m
Max Track Width	2.740m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	8.500m

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CLIENT: **SCOTTISH AND SOUTHER ELECTRICTY NETWORKS**

ARCHITECT:

SITE PROJECT: **FANELLAN HUB 400K SWITCHING STATION AND HVAC CONVERTOR STATION**

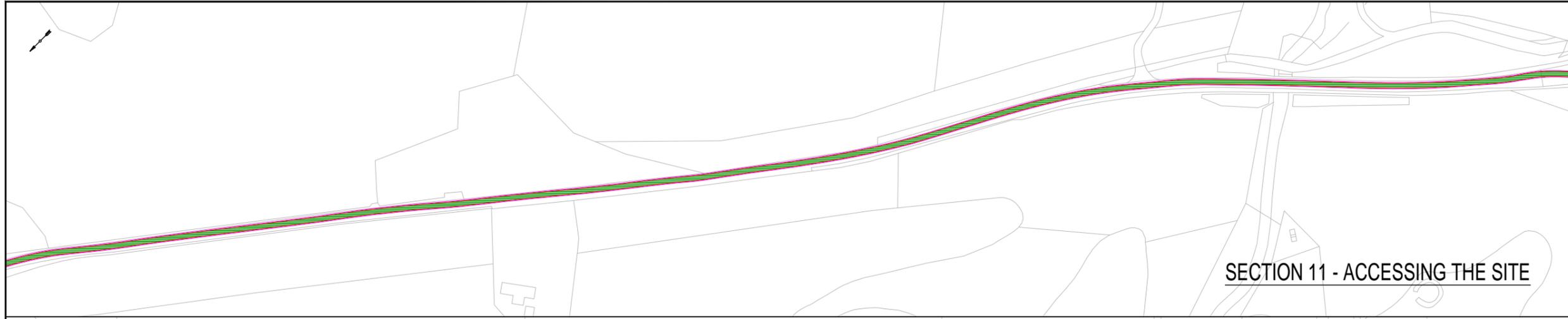
TITLE: **TRANSPORT ASSESSMENT - SWEEP PATH ANALYSIS SECTION 9 & 10**

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PROJECT NO: 70112533	DESIGNED: -	DRAWN: CB
		DATE: February 25

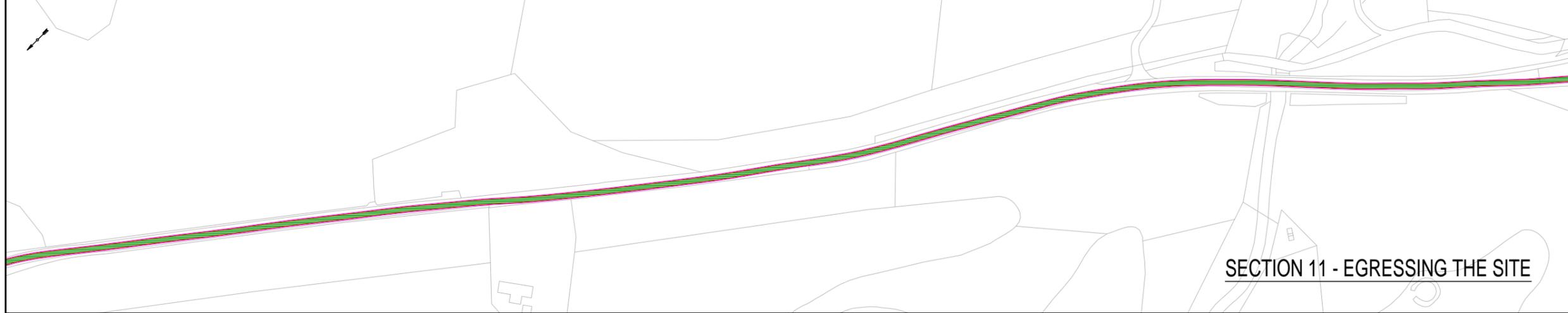
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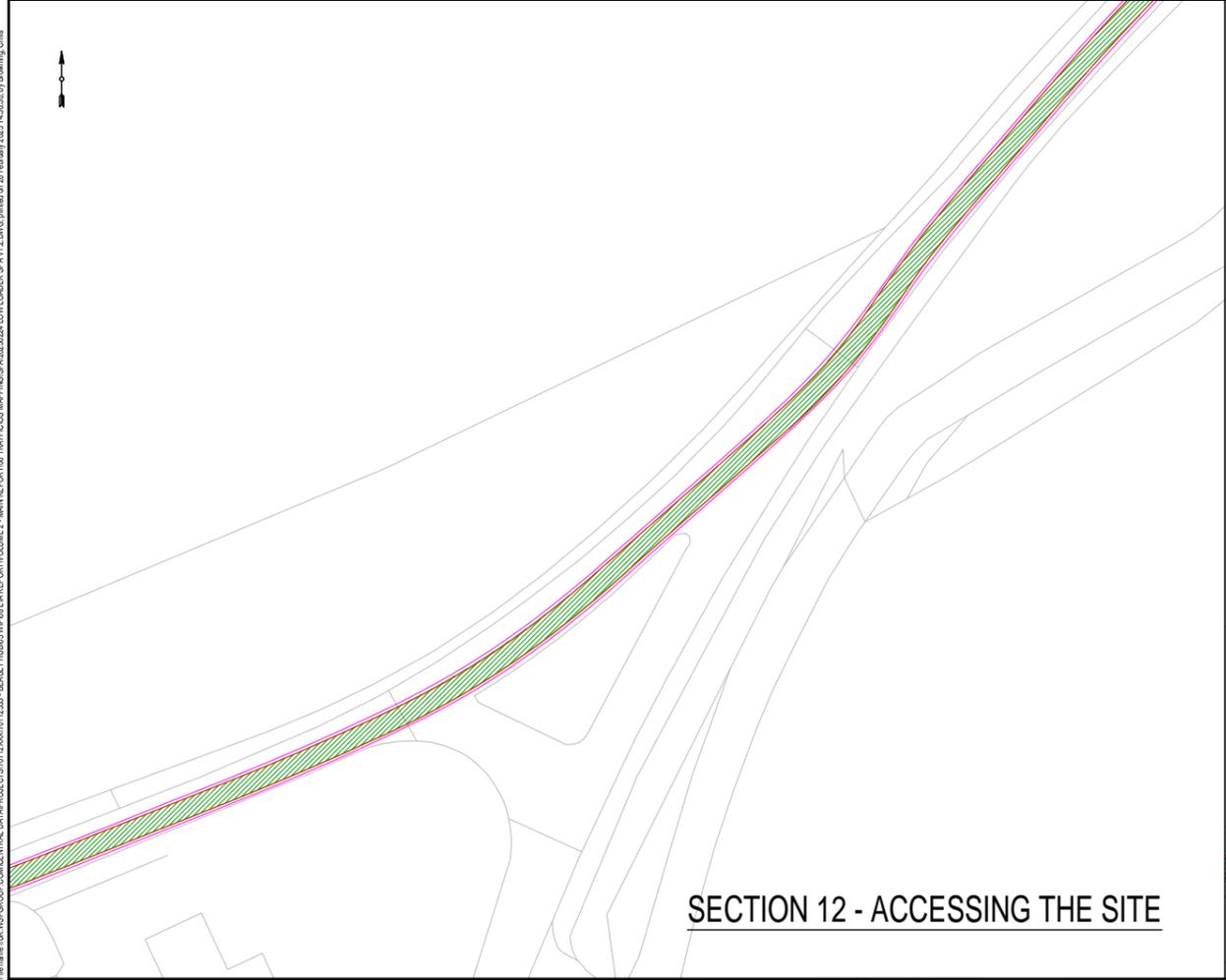
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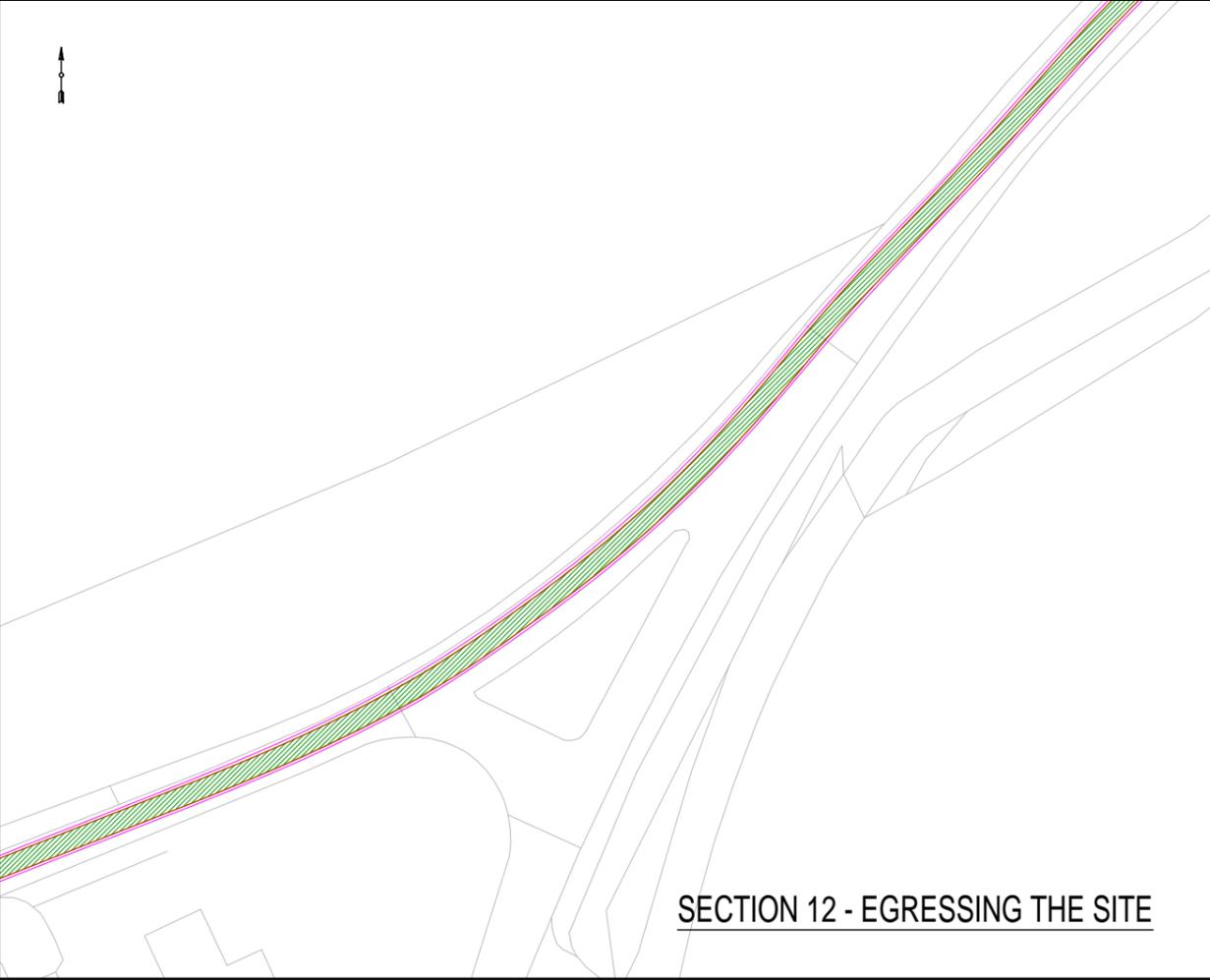
SECTION 11 - ACCESSING THE SITE



SECTION 11 - EGRESSING THE SITE



SECTION 12 - ACCESSING THE SITE

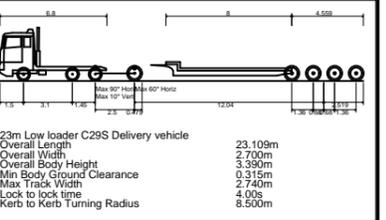
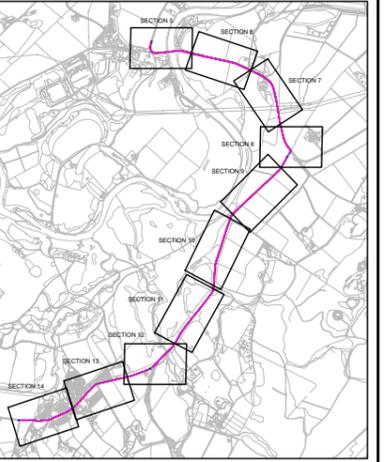


SECTION 12 - EGRESSING THE SITE

DO NOT SCALE

LEGEND:

- VEHICLE/TRAILER OUTLINE
- WHEEL TRACKED PATHWAY
- OVERSAIL OF EXCAVATOR



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TITLE: **TRANSPORT ASSESSMENT - SWEEP PATH ANALYSIS SECTION 11 & 12**

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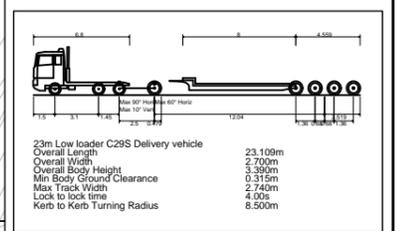
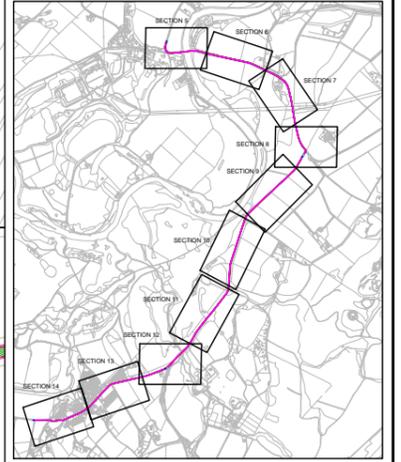
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DO NOT SCALE

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- VEHICLE/TRAILER OUTLINE
 - WHEEL TRACKED PATHWAY
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TITLE: **TRANSPORT ASSESSMENT - SWEEPED PATH ANALYSIS SECTION 13 & 14**

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