Plas Power Solar and Energy Storage Project

2.0.5 – 2.0.7 Proposed Site Accesses

June **2024**

DNS Ref: DNS/3253253



Schedule of plans included in this document

Document Ref	Document Title	Drawing Reference
2.0.5	Southern Site Access - Access 1	330610724-SK-1200-001
2.0.6	Southern Site Access Cross Section – Access 1	330610724-SK-1200-005
2.0.7	Northern Site Access - Access 2	330610724-SK-1200-003

Safety
Integrity
Respect
Sustainability
Drive

PROPOSED JUNCTION LAYOUT

1:500

Absolute Minimum Visibility Splay determined from 85th percentile obtained from a speed survey undertaken for 2 weeks commencing 12th July 2023.

Existing solid double white centre lines.

Approximately 25m of stone wall will be relocated along the proposed access road radii.

85th percentile eastbound speed = 45.52mph. This equates to 97m minimum SSD. 131m is achievable.

Trees to be removed

New permanent private access to development with 2.4m set back for visibility splay.

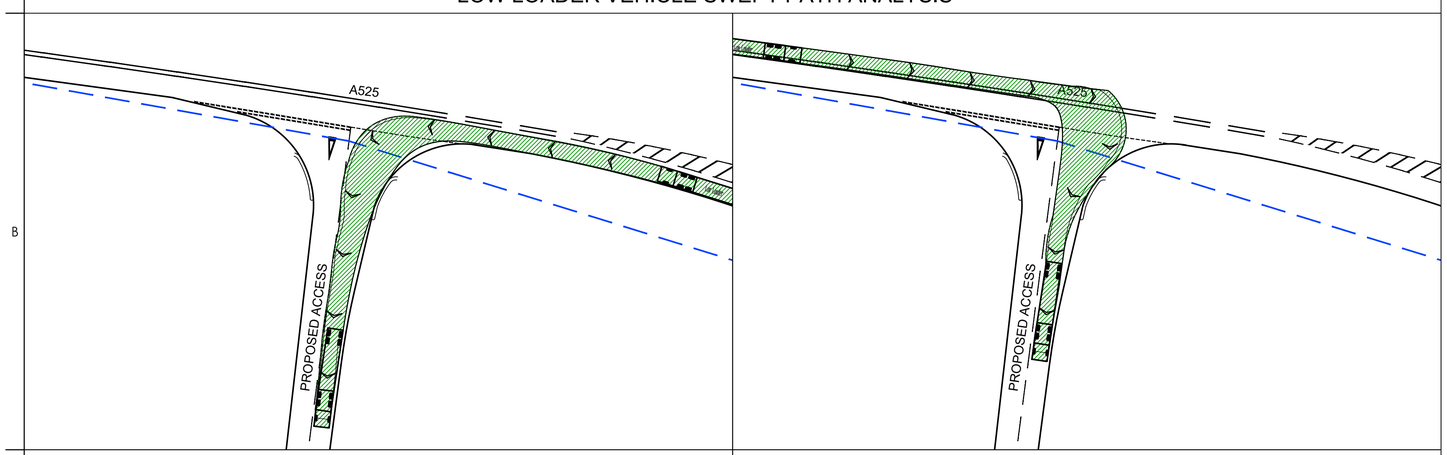
85th percentile westbound speed = 48.21mph. This equates to 106m minimum SSD. 122m is achievable.

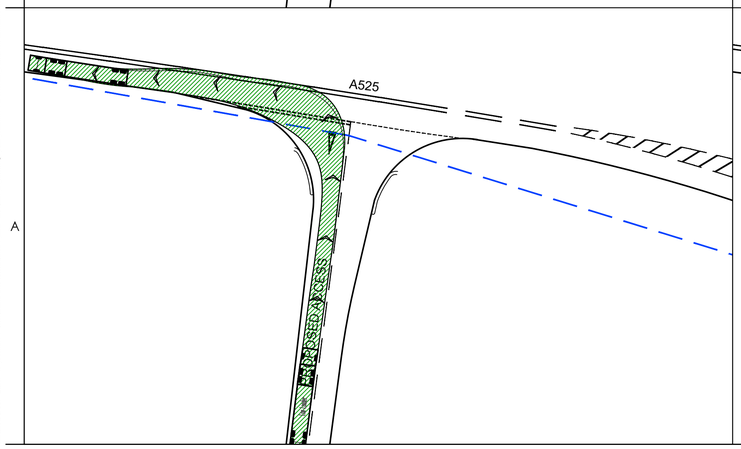
131m
122m
A525
R15
2.4m
PROPOSED ACCESS
7m

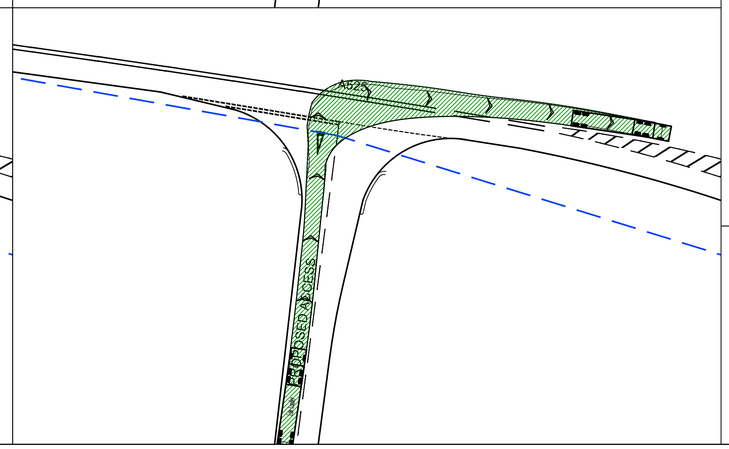
LOCATION PLAN

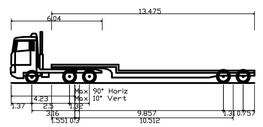
1:20000

LOW LOADER VEHICLE SWEPT PATH ANALYSIS









Low Loader	
Overall Length	16.154m
Overall Width	2.520m
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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NOTES:

1. SOUTHERN CONSTRUCTION ACCESS - SWEPT PATH ANALYSIS BASED ON 10mph/16kph SPEED.
2. SITE STOPPING DISTANCE (SSD) IS CALCULATED FROM THE AVERAGE DAILY 85TH PERCENTILE VEHICLE SPEED AND ASSUMES A 2 SECOND REACTION TIME AND DECELERATION RATE OF 0.375g.

KWM	MG	-	2024.02.06
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Issue Status

CONCEPT DESIGN

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Client/Project Logo

Client/Project

LIGHTSOURCE BP

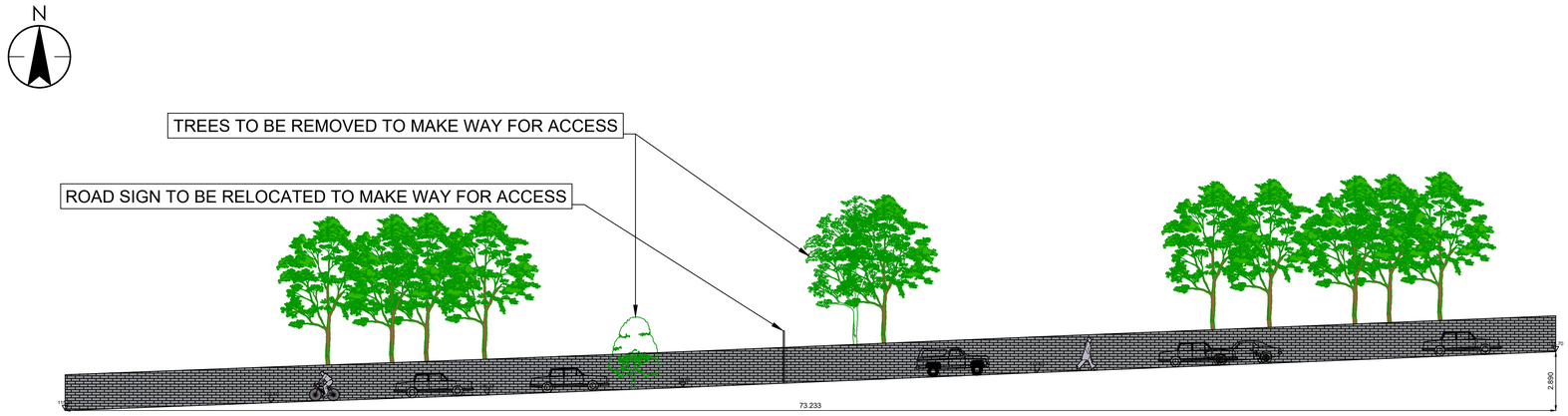
PLAS POWER SOLAR DEVELOPMENT

Title

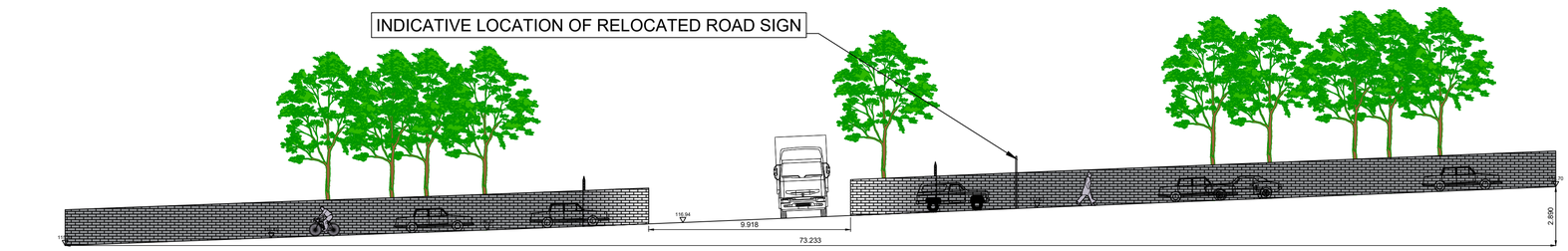
SOUTHERN SITE ACCESS

Project No.	Scale
330610724	AS SHOWN
Revision	**Drawing No.**
-	**330610724-SK-1200-001**

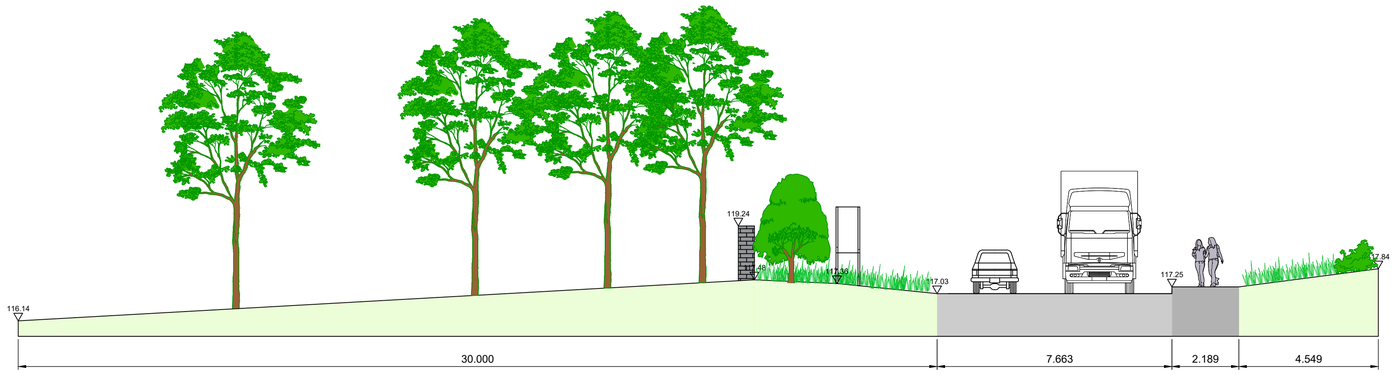
Plotted: 06.02.2024 20:42:28 3.57.77 PM By: Fowler, William
DrawingFullPath: C:\Users\WFOWLER\Stantec\plas power solar development - lightsource bp\Documents\330610724\Design\Drawings\Civil\330610724-SK-1200-001_Indicative southern construction access



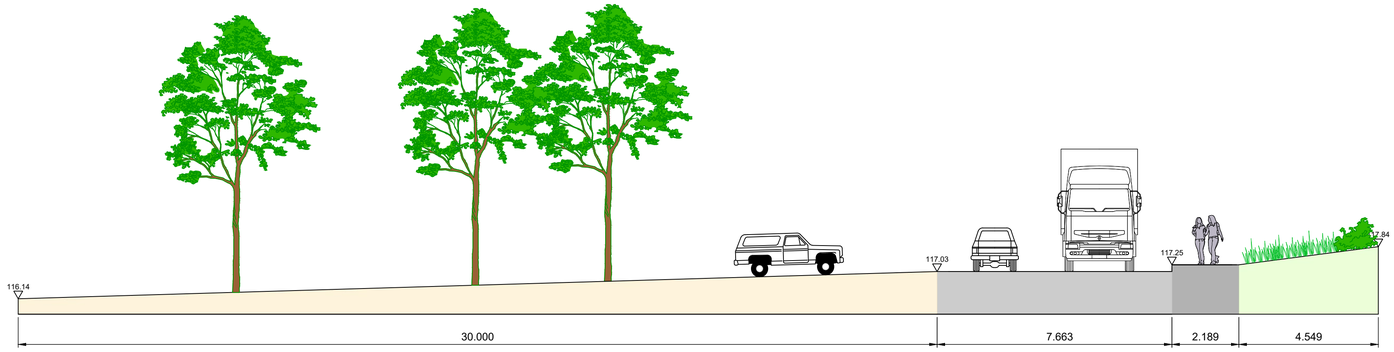
SECTION 1
EXISTING
1:150



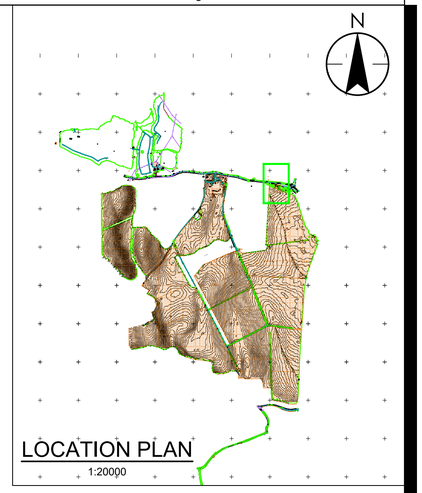
SECTION 1
PROPOSED
1:150



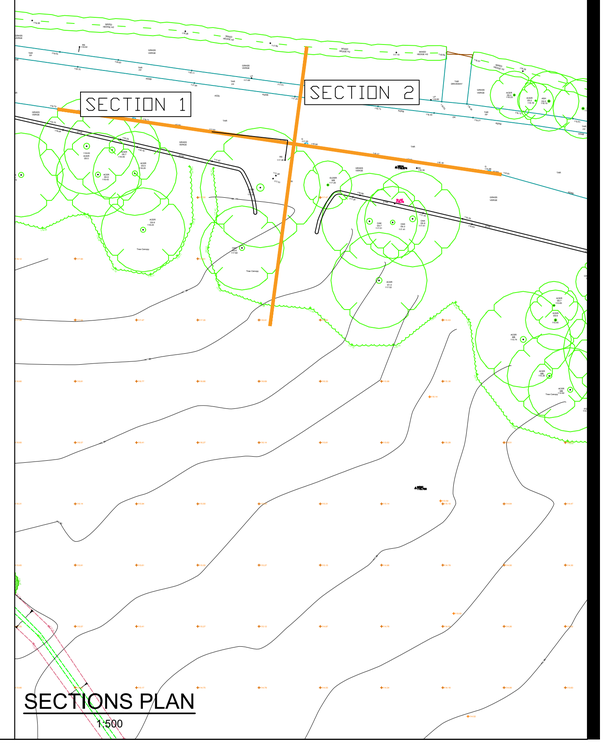
SECTION 2
EXISTING
1:100



SECTION 2
PROPOSED
1:100



LOCATION PLAN
1:20000



SECTIONS PLAN
1:500

KEY

- GRASS / VERGE
- FOOTWAY
- CARRIAGEWAY
- STONE WALL
- PROPOSED ACCESS ROAD

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	WF	WD	TH	2023.10.10
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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PLAS POWER SOLAR DEVELOPMENT

Title
SOUTHERN SITE ACCESS CROSS SECTION

Project No.	Scale
330610724	AS SHOWN
Revision	Drawing No.
-	**330610724-SK-1200-005**

Plotted: 09.02.2024 20:42:28, 4.04.49 PM By: Fowler, William
File Name: C:\330610724 - plas power solar development\300 - transport\04_drawings\cad\330610724-sk-1200-005_cross section

PROPOSED JUNCTION LAYOUT

1:500

Absolute Minimum Visibility Splay determined from 85th percentile obtained from a speed survey undertaken for 2 weeks commencing 12th July 2023.

Temporary widening during construction to existing access way.

2.0m visibility setback for construction access.

Existing solid double white centre lines.

112m

15m

97m

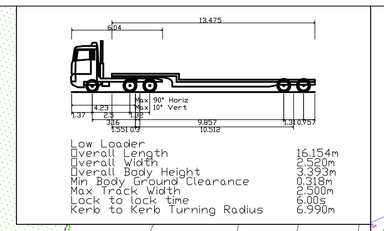
85th percentile eastbound speed = 47.76mph. This equates to 105m minimum SSD. 112m is achievable.

85th percentile westbound speed = 45.52mph. This equates to 97m minimum SSD. 97m is achievable to solid double white centre lines.

LOCATION PLAN

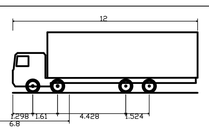
1:20000

VEHICLE SWEPT PATH ANALYSIS



Low Loader

Overall Length	16.154m
Overall Width	2.520m
Overall Body Height	3.353m
Min Body Ground Clearance	0.318m
Max Track Width	2.500m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	6.990m



Rigid Truck

Overall Length	12.000m
Overall Width	2.500m
Overall Body Height	3.928m
Min Body Ground Clearance	0.412m
Track Width	2.471m
Lock to lock time	6.00s
Kerb to Kerb Turning Radius	11.900m

97m

97m

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NOTES:

1. NORTHERN CONSTRUCTION ACCESS - SWEPT PATH ANALYSIS BASED ON 5mph/8kph RESTRICTED SPEED LIMIT.
2. SITE STOPPING DISTANCE (SSD) IS CALCULATED FROM THE AVERAGE DAILY 85TH PERCENTILE VEHICLE SPEED AND ASSUMES A 2 SECOND REACTION TIME AND DECELERATION RATE OF 0.375g.

KWM	KWM	-	2023.09.29
Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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PLAS POWER SOLAR DEVELOPMENT

Title
NORTHERN SITE CONSTRUCTION ACCESS

Project No.	Scale
330610724	AS SHOWN
Revision	Drawing No.
-	**330610724-SK-1200-003**

Plotted: 08.03.2024 10:42:05 AM By: Fowler, William
File Path: C:\Users\WFowler\Stantec\Plas power solar development\330610724-sk1200-003_indicative northern construction access.dwg