

Constructing
the future 



Initial Conceptual Overview
Including Gull Wing & Single Row
Canopies REVISED

SIG Solar Car Parking Structures



17th February 2023

Initial Overview – Ford Halewood

Standard SIG Structures

11 x Gull Wing Structure with 3 PV Panels in portrait on each rafter. Including Guttering and downpipes to car park level

Total installed: 1,293 kWp

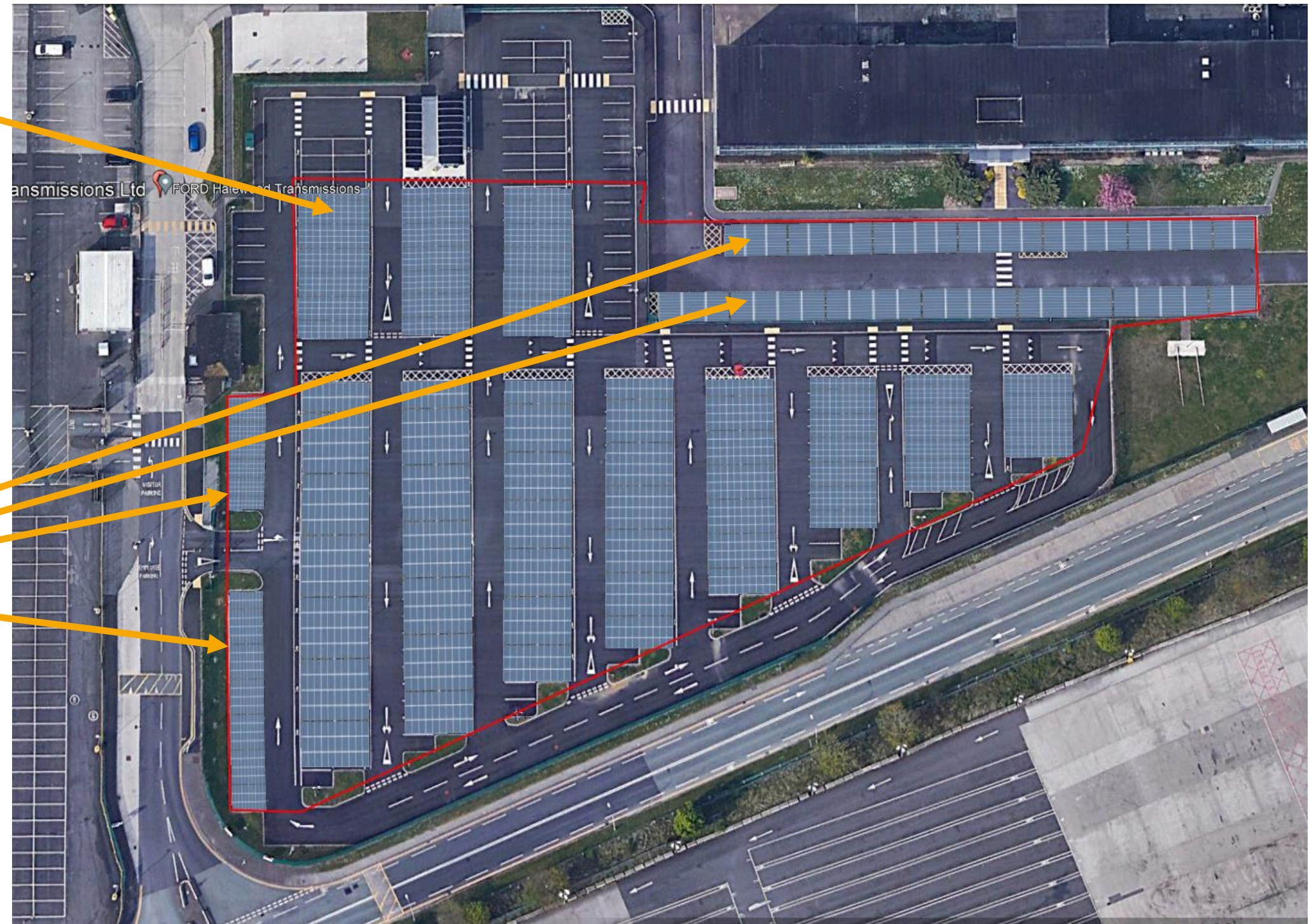
4 x Single Mono Structures with 3 panels in portrait

Total Installed: 365.17 kWp

Posts, Rafters, Purlins & fixings including PV mounting system and Fully Watertight canopy.

Based on 575w Bifacial PV panel
(w:1134mm x l: 2278mm)

All subject to surveys and steel price fluctuations.



SIG Solar Car Parking Structures using large Bifacial PV panels

Panels													
Width	1.134m												
Length	2.278m												
Wattage	575W												
Variants	GULL WING												
Variant Number		Bay size 1 (m)	No of 1	Bay size 2 (m)	No of 2	No of Grids	Structure length	Assumed Panel Columns	Adjust overhang panels	Final Panel Columns	Total Panels	kWp	Array Length
1		7.5	2	5	2	5	25	23	0	23	138	79.35	26.22
2		7.5	2	5	2	5	25	23	0	23	138	79.35	26.22
3		7.5	2	5	2	5	25	23	0	23	138	79.35	26.22
4		7.5	8	5	0	9	60	54	1	55	330	189.75	62.7
5		7.5	6	5	2	9	55	50	2	52	312	179.4	59.28
6		7.5	5	5	2	8	47.5	43	3	46	276	158.7	52.44
7		7.5	5	5	1	7	42.5	39	4	43	258	148.35	49.02
8		7.5	4	5	1	6	35	32	5	37	222	127.65	42.18
9		7.5	2	5	2	5	25	23	6	29	174	100.05	33.06
10		7.5	1	5	2	4	17.5	17	7	24	144	82.8	27.36
11		7.5	1	5	1	3	12.5	12	8	20	120	69	22.8
11			38		17	66	370	339		375	2250	1293.75	427.5
									No of Rows	6			
									Total No. Panels	2250			
									Total Wattage	1293.75	kWp		

SIG Solar Car Parking Structures

<u>Panels</u>													
Width	1.134m												
Length	2.278m												
Wattage	575W												
<u>Variants</u>		Single Mono											
Variant Number		Bay size 1	No of 1	Bay size 2	No of 2	No of Grids	Structure length	Assumed Panel Columns	Adjust overhang panels	Final Panel Columns	Total Panels	kWp	Array Length
1		7.5	12	5	1	14	95	85	-1	84	252	144.9	95.76
2		7.5	10	5	2	13	85	76	0	76	228	131.1	86.64
3		7.5	4	5	1	6	35	32	1	33	99	56.93	37.62
4		7.5	1	5	2	4	17.5	17	2	19	57	32.78	21.66
4			27		6	37	232.5	210		212		365.7	241.68
									No of Rows	3			
									Total No. Panels	636			
									Total Wattage	365.7kWp			

SIG Solar Car Parking Structures – Gull Wing



SIG Solar Car Parking Structures – Single Mono



SIG Solar Car Parking Structures

Designed and manufactured in the UK

Supplied:

Interface Beams (baseplate)
Cold Rolled Posts (Z600 Galvanized)
Cold Rolled Rafters (Z600 Galvanized)
Cold Rolled Purlins (Z600 Galvanized)
All connections for the super structure.

Not Supplied:

PV Panels
Foundations
Connection to foundations

All quoted prices are subject to surveys,
review of steel prices, taxes and delivery



SIG Solar Car Parking Structures

For further information

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