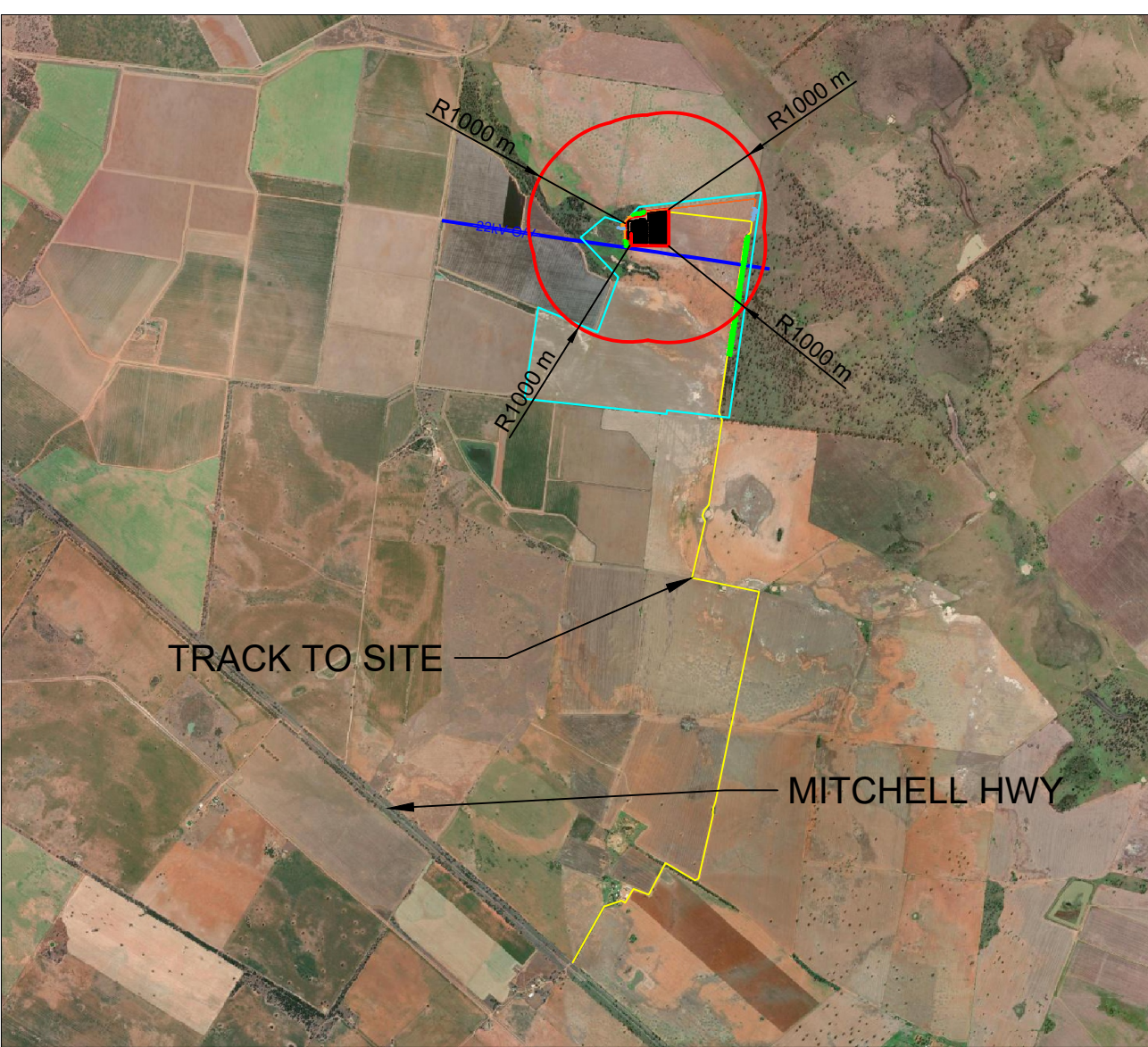
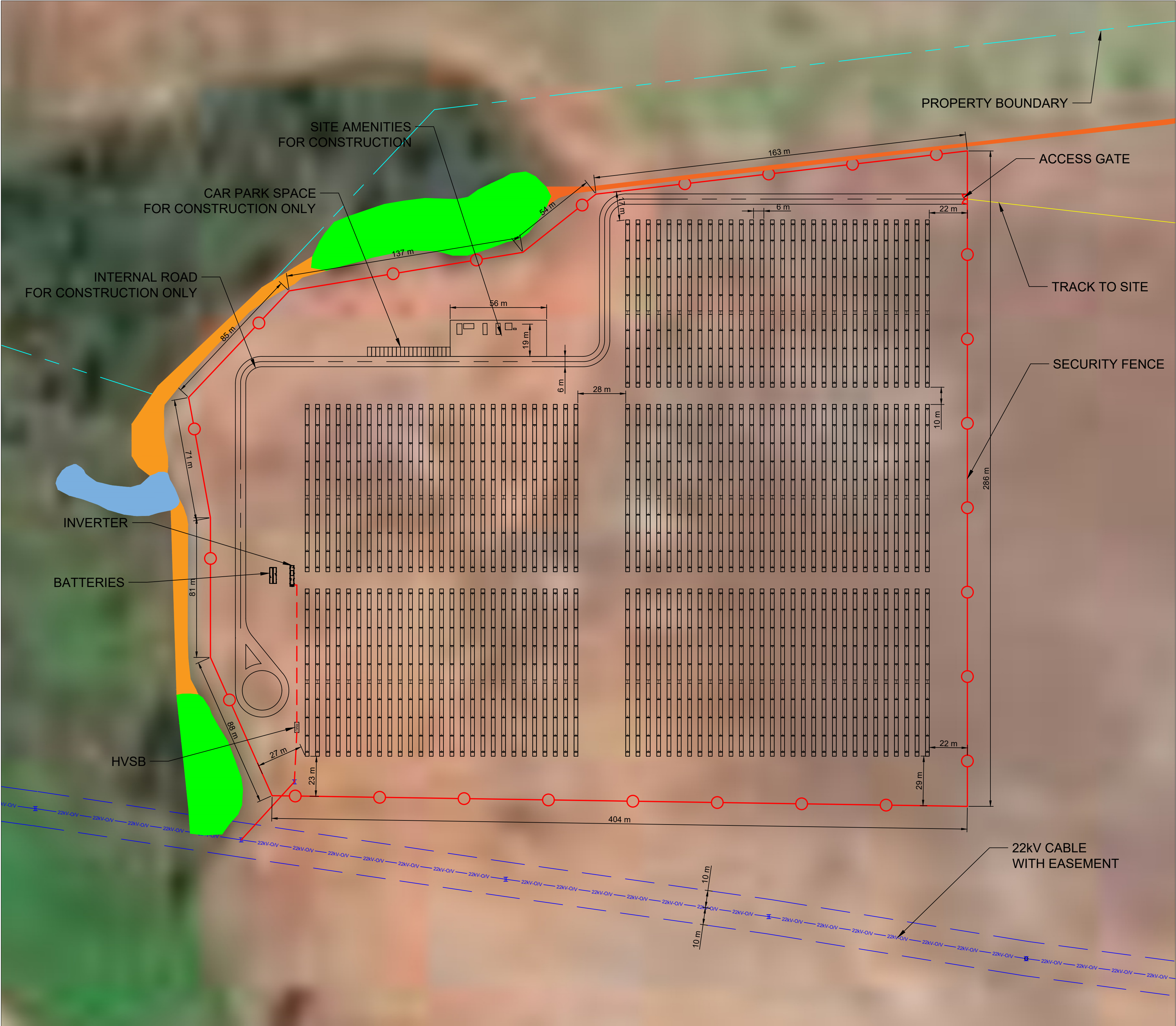
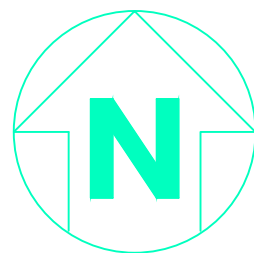




NOTES

1. ACTUAL DIMENSIONS AND CLEARANCES MAY VARY SUBJECT TO SITE CONDITIONS.
2. DIMENSIONS OF ELECTRICAL EQUIPMENT ARE INDICATIVE ONLY. ACTUAL DIMENSIONS TO BE CONFIRMED.
3. EXISTING ESSENTIAL ENERGY 11kV POLE IS FOR ILLUSTRATION ONLY. ACTUAL POSITION IS SUBJECT TO THE ACTUAL MEASUREMENT ON SITE.
4. TWO NEW POLES WILL BE INSTALLED TO CARRY OVERHEAD TRANSMISSION LINES AND CONNECT TO ESSENTIAL ENERGY NETWORK.
5. SITE STORAGE AND AMENITY FACILITIES TO BE ON SITE ONLY DURING CONSTRUCTION PHASE. NO PERMANENT BUILDINGS TO BE KEPT ON SITE AFTER CONSTRUCTION COMPLETED.

LEGEND

- PROPOSED PV ARRAY 22kV-OV 22kV CABLE WITH EASEMENT
- SECURITY FENCE PROPOSED OVERHEAD & UNDERGROUND HV CABLES
- PROPERTY BOUNDARY

SYSTEM SPECIFICATIONS

DC	6.42	MW	TOTAL MODULES	11664
MODULE CAPACITY	550	W	MODULES PER STRING	27
NUMBER OF INVERTERS	1	-	NUMBER OF STRINGS	432
INVERTER MODEL	SG-4950HV-MV	-	MODULE MODEL	LR5-72HPH-550M

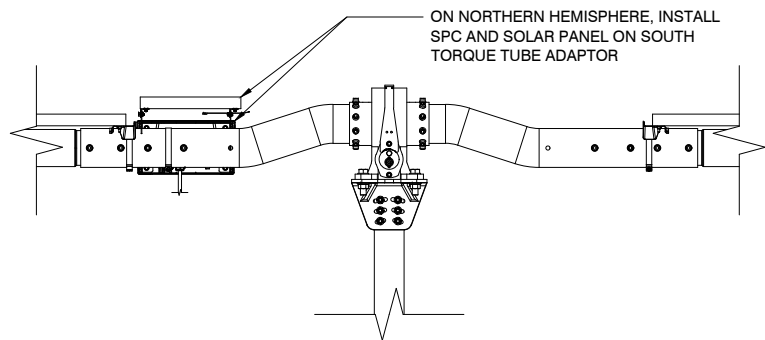
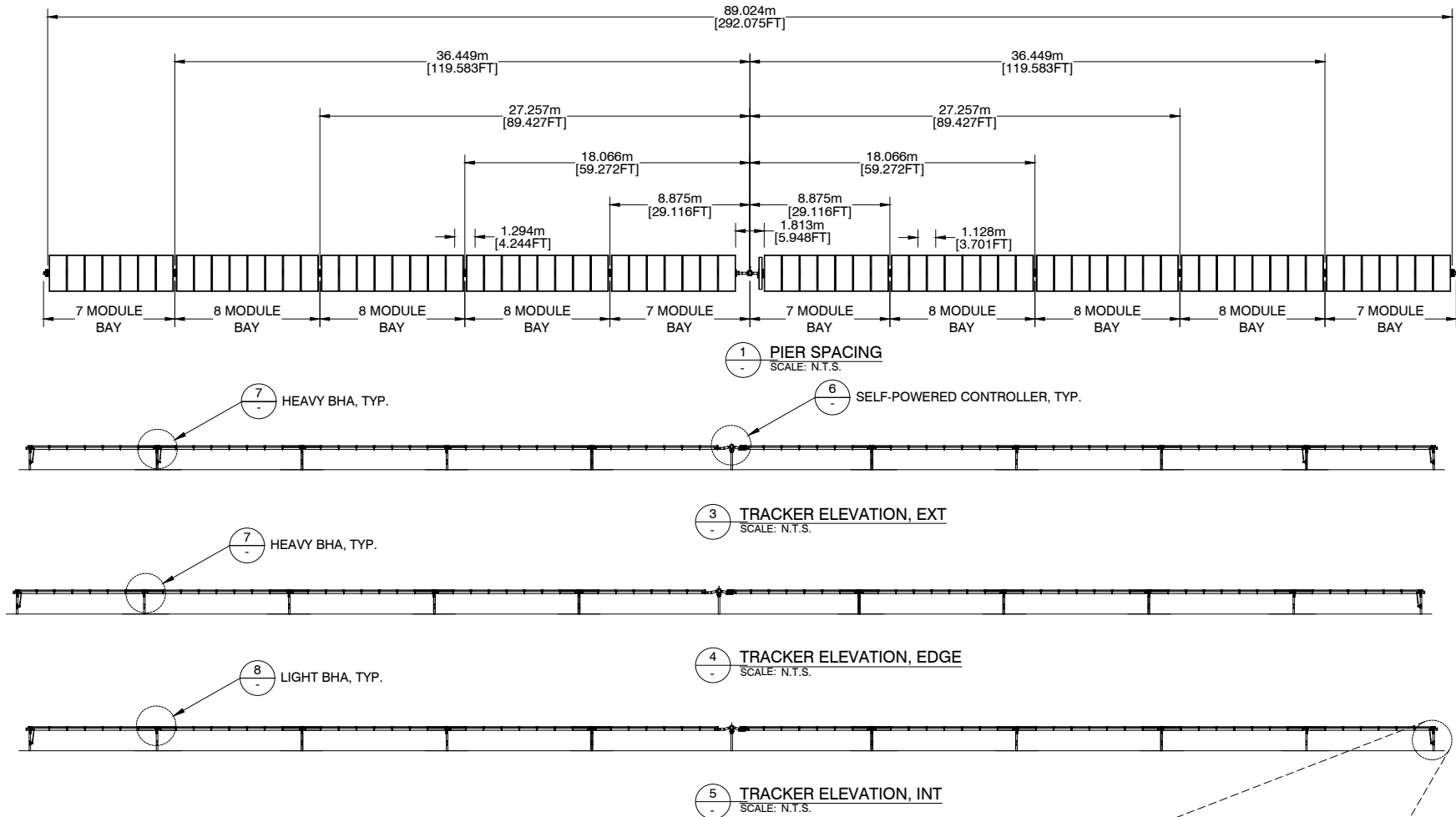
FOR INFORMATION

E	08/07/24	D.S.	ACE	D.S.	ACE		RELOCATE ROAD		
D	19/06/24	D.S.	ACE	D.S.	ACE		RELOCATE SITE BOUNDARY		
C	05/04/24	D.S.	ACE	D.S.	D.S.		UPDATE SITE PLAN		
B	28/06/23	D.S.	ACE	D.S.	D.S.		UPDATE DETAILS & ROAD LOCATION		
A	01/06/23	MG	ACE	MG	MG		DRAFT FOR INFORMATION		
No	DATE	DRN	CHK	ENG	Q.A.	PROJECT	DESCRIPTION	NUMBER	TITLE
							REVISION		REFERENCE DRAWINGS

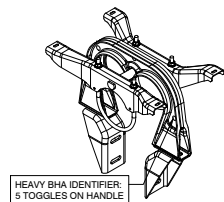


9438 Mitchell Hwy, Cathundral, NSW, 2823
4.95 MVA PV EXPORT SYSTEM
SITE PLAN

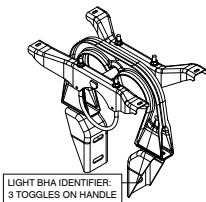
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PROJ No	DRG No				REV E



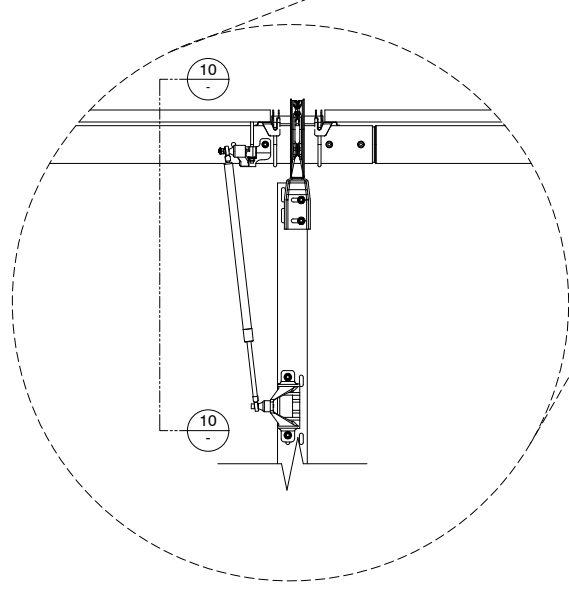
6 SELF POWERED CONTROLLER
SCALE: N.T.S.



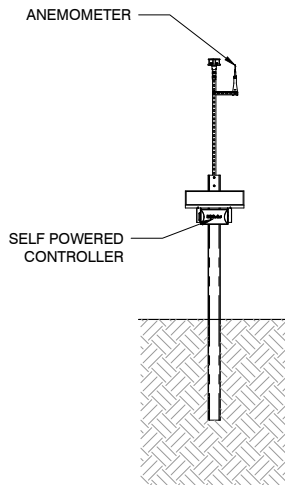
7 HEAVY BHA, TYP.
SCALE: N.T.S.



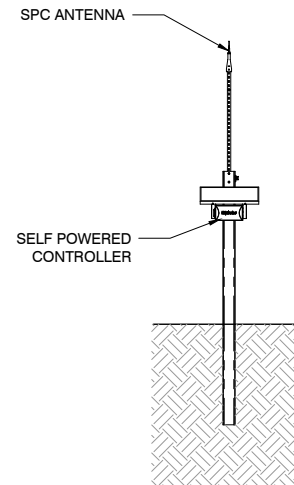
8 LIGHT BHA, TYP.
SCALE: N.T.S.



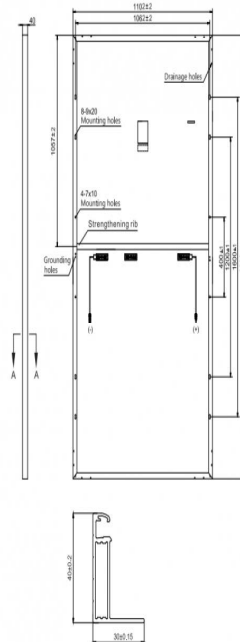
9 DAMPER, TYP.
SCALE: N.T.S.



11 SPT WEATHER STATION, ULTRASONIC WIND SENSOR
SCALE: N.T.S.



12 SPT WEATHER STATION, ULTRASONIC SNOW SENSOR
SCALE: N.T.S.



SEAL

THESE PLANS HAVE BEEN PREPARED
BY OTHERS AND SEALED BY
STRUCTUROLOGY LLC FOR
CONFORMANCE OF STRUCTURAL
ITEMS ONLY.

GREEN AND GOLD
ENERGY

PROJECT NUMBER:

SITE ID:

SHEET TITLE:

76 MODULE
TRACKER DETAILS

NO.	REVISION	DATE	INIT.
A	GEN MECH. SET	07/09/2021	TJ
B			
C			
D			
E			
F			
G			
H			
I			

SITE DETAILS

LATITUDE	-
LONGITUDE	-
SNOW LOAD	-- PSF
WIND LOAD	-- MPH ASCE 7-10
STOW STRAT.	-- STOW - --MPH
NEXTRACKER	NXH 2.4.1.18
76 TRACKER	7-8-8-7-M-7-8-8-7
38 TRACKER	-M-7-8-8-8-7
DATE	07/09/2021
DRAWN BY	TJ
CHECKED BY	-

SHEET NO.:

M-101

IF BAR IS NOT TWENTY MILLIMETERS,
PRINT IS NOT TO SCALE.

ACTUAL OPTIMAL DIMENSIONS MAY DEPEND ON SPECIFIC CONDITIONS OF THE SITE.

NOT FOR CONSTRUCTION

SEAL

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ITEMS ONLY.

GREEN AND GOLD
ENERGY

PROJECT NUMBER:

SITE ID:

SHEET TITLE:

38 MODULE
TRACKER DETAILS

NO.	REVISION	DATE	INIT.
A	GEN MECH. SET	07/09/2021	TJ
B			
C			
D			
E			
F			
G			
H			
I			

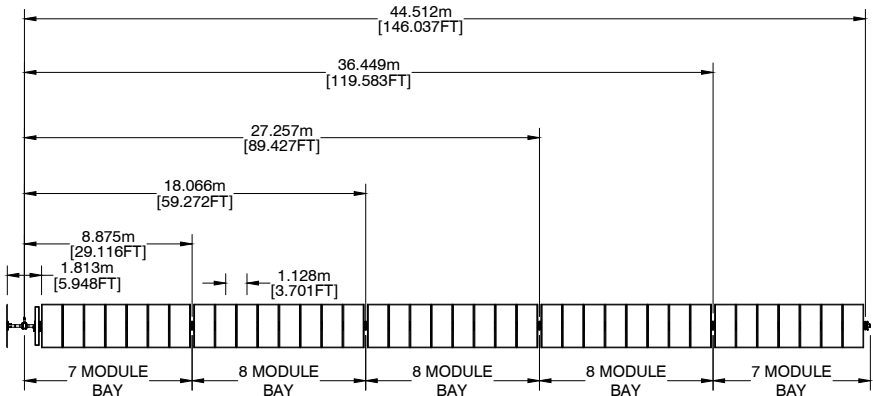
SITE DETAILS

LATITUDE	-
LONGITUDE	-
SNOW LOAD	-- PSF
WIND LOAD	-- MPH ASCE 7-10
STOW STRAT.	-- STOW - --MPH
NEXTRACKER	NXH 2.4.1.18
76 TRACKER	7-8-8-8-7-M-7-8-8-8-7
38 TRACKER	-M-7-8-8-8-7
DATE	07/09/2021
DRAWN BY	TJ
CHECKED BY	-

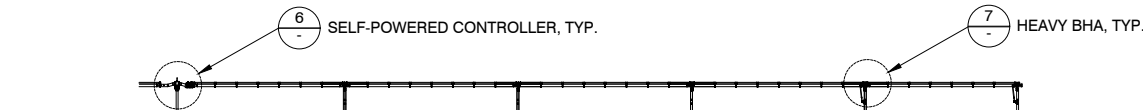
SHEET NO.:

M-102

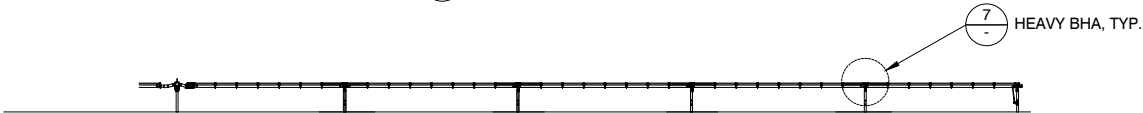
IF BAR IS NOT TWENTY MILLIMETERS,
PRINT IS NOT TO SCALE.



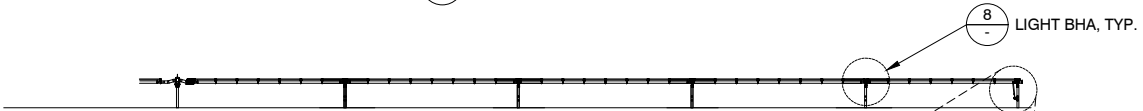
1 PIER SPACING
SCALE: N.T.S.



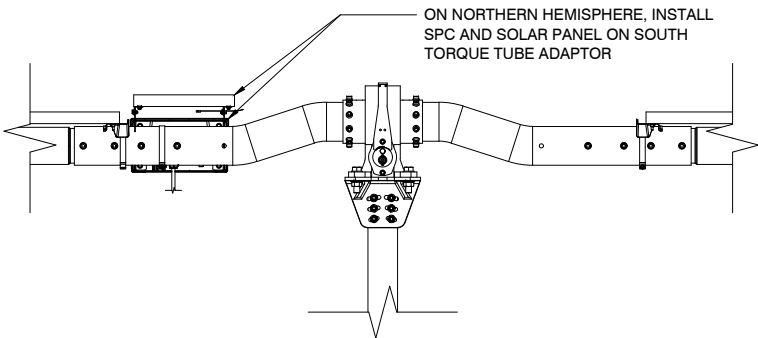
3 TRACKER ELEVATION, EXT
SCALE: N.T.S.



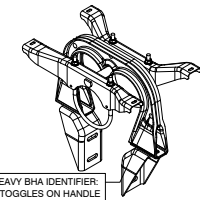
4 TRACKER ELEVATION, EDGE
SCALE: N.T.S.



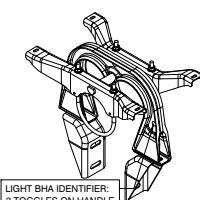
5 TRACKER ELEVATION, INT
SCALE: N.T.S.



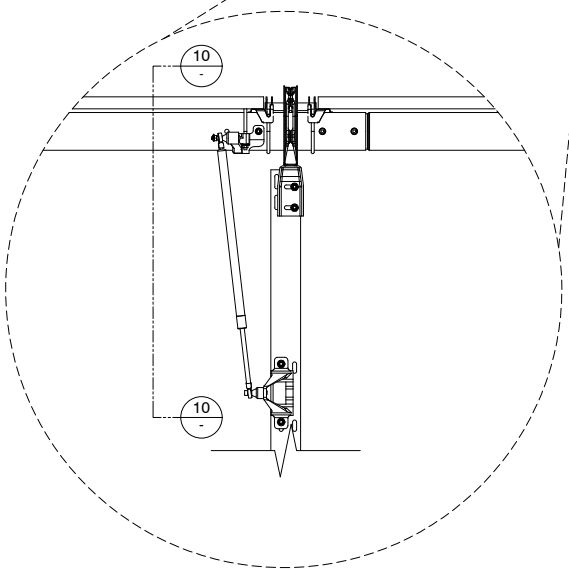
6 SELF POWERED CONTROLLER
SCALE: N.T.S.



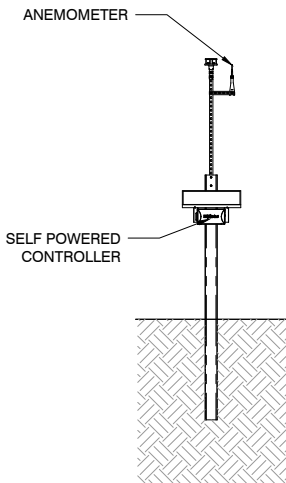
7 HEAVY BHA, TYP.
SCALE: N.T.S.



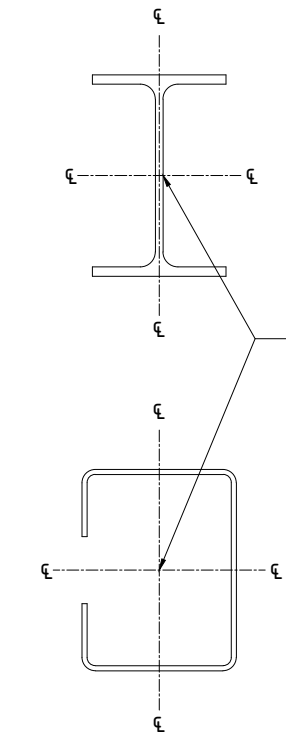
8 LIGHT BHA, TYP.
SCALE: N.T.S.



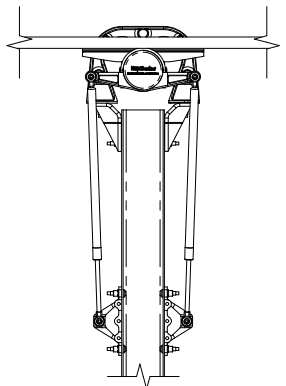
9 DAMPER, TYP.
SCALE: N.T.S.



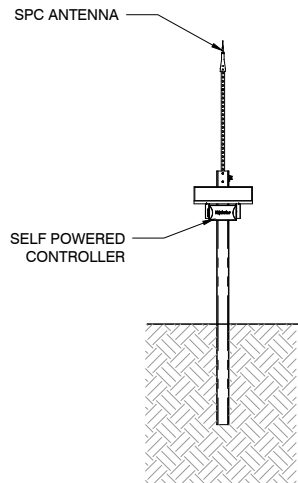
11 SPT WEATHER STATION, ULTRASONIC WIND SENSOR
SCALE: N.T.S.



2 CENTER OF WEB
SCALE: N.T.S.



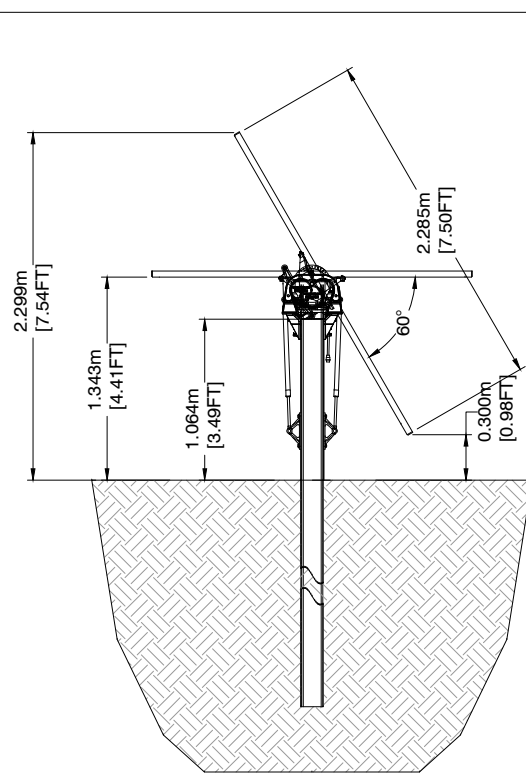
10 DOUBLE DAMPER
SCALE: N.T.S.



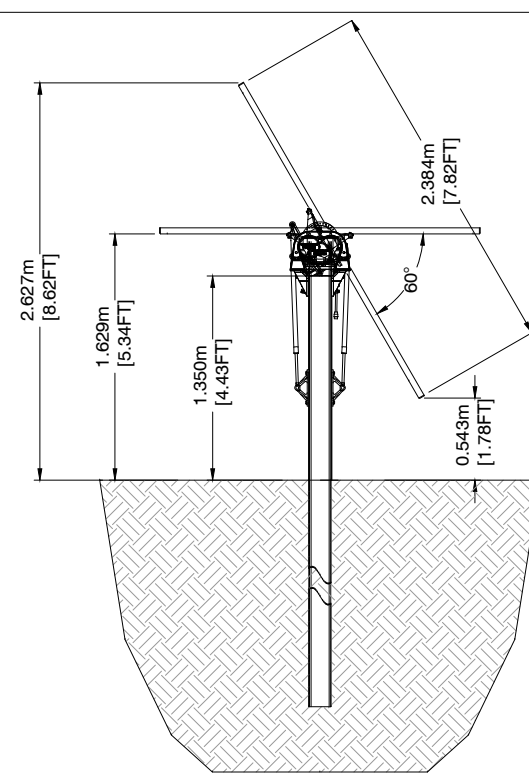
12 SPT WEATHER STATION, ULTRASONIC SNOW SENSOR
SCALE: N.T.S.

ACTUAL OPTIMAL DIMENSIONS MAY DEPEND ON SPECIFIC CONDITIONS OF THE SITE.

NOT FOR CONSTRUCTION

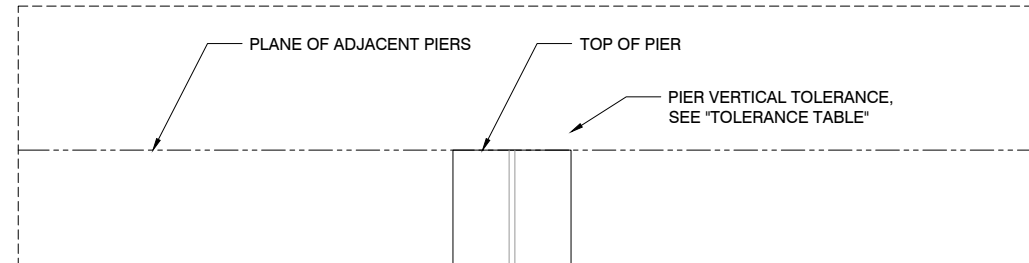


1A TYPICAL MIN. PIER HEIGHT
- SCALE: N.T.S.



1B TYPICAL MAX. PIER HEIGHT
- SCALE: N.T.S.

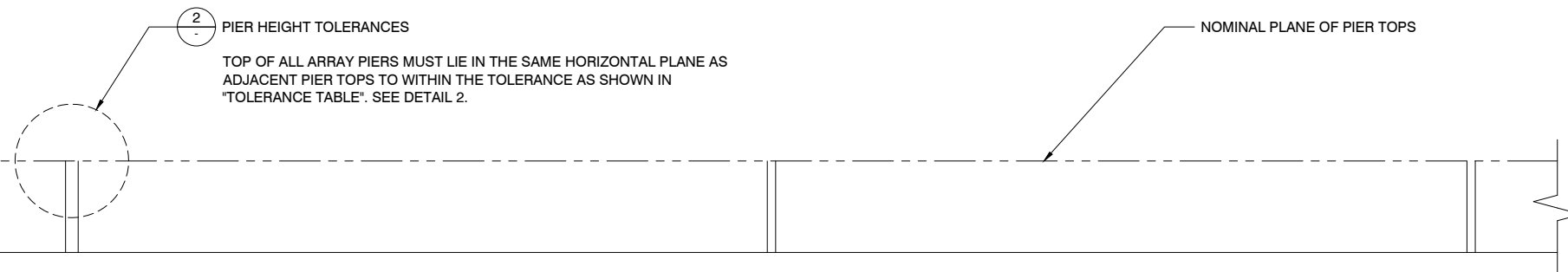
2.4 TOLERANCE TABLE			
MEASUREMENT TYPE		0-6.1% (STANDARD SLOPE)	>6.1-15% (HIGH SLOPE)
TOP OF PIER E-W POSITION		+/- 1" (25.4 mm)	
TOP OF PIER N-S POSITION		+/- 1 ³ / ₄ " (45.5 mm)	+/- 1 ³ / ₈ " (34.9 mm)
PIER VERTICAL		+/- ¹¹ / ₁₆ " (17.5 mm)	+/- ³ / ₂ " (12.7 mm)
PIER TWIST		+/- 5°	
0 - 3% TRACKER SLOPE	PIER PLUMB E-W	+/- 1.5°	-
	PIER PLUMB N-S	+/- 3°	-
>3 - 15% TRACKER SLOPE	PIER PLUMB E-W	+/- 1.5°	
	PIER PLUMB N-S	+/- 1.5°	



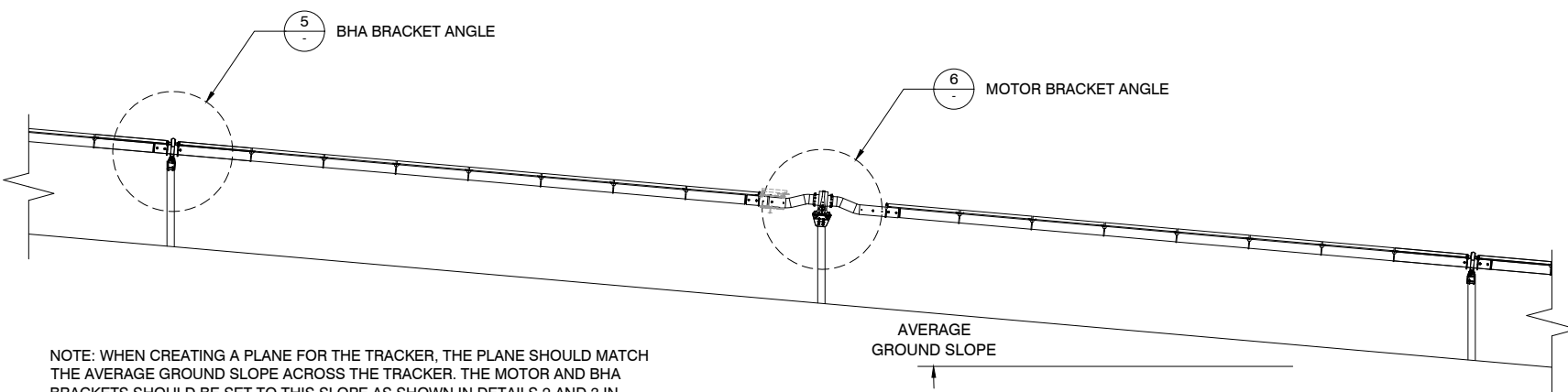
2 PIER HEIGHT TOLERANCES
- SCALE: N.T.S.

NOTES:

- 1) TO ALIGN THE PIER TOPS IN A PLANE, SET THE END PIERS OF THE TRACKER ROW FIRST, THEN USE A LASER OR STRING TO SET THE HEIGHTS OF ALL PIERS IN BETWEEN.
- 2) IF THE EXISTING GRADE IS NOT LEVEL, TO ENSURE PIER HEIGHTS FALL WITHIN THE TOLERANCE AS SHOWN IN "TOLERANCE TABLE", MAKE MAXIMUM PIER HEIGHT IN EACH ROW AT LOWEST ELEVATION POINT OF GRADE FOR THAT ROW.
- 3) MOTOR PIER MUST BE IN THE PLANE OF THE ARRAY PIERS.

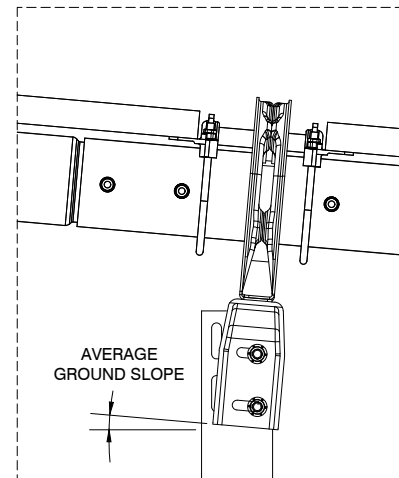


3 TRACKER PLANAR TOLERANCES
- SCALE: N.T.S.

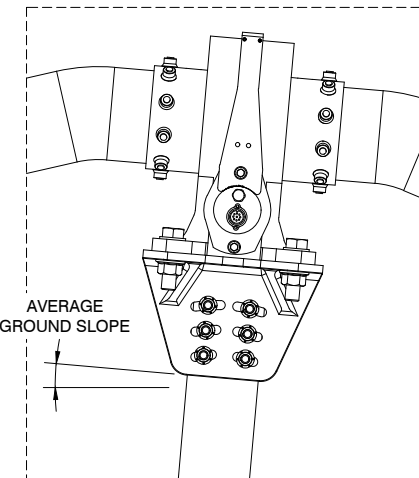


NOTE: WHEN CREATING A PLANE FOR THE TRACKER, THE PLANE SHOULD MATCH THE AVERAGE GROUND SLOPE ACROSS THE TRACKER. THE MOTOR AND BHA BRACKETS SHOULD BE SET TO THIS SLOPE AS SHOWN IN DETAILS 2 AND 3 IN ORDER TO MOUNT THE SLEW GEAR AND BHAS PROPERLY.

4 PLANE PARALLEL W/ AVERAGE GROUND SLOPE
- SCALE: N.T.S.



5 BHA BRACKET ANGLE
- SCALE: N.T.S.



6 MOTOR BRACKET ANGLE
- SCALE: N.T.S.

ACTUAL OPTIMAL DIMENSIONS MAY DEPEND ON SPECIFIC CONDITIONS OF THE SITE.

NOT FOR CONSTRUCTION

SEAL

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STRUCTUROLOGY LLC FOR
CONFORMANCE OF STRUCTURAL
ITEMS ONLY.

GREEN AND GOLD
ENERGY

PROJECT NUMBER:

SITE ID:

SHEET TITLE:

PIER TOLERANCES

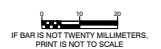
NO.	REVISION	DATE	INIT
A	GEN MECH. SET	07/09/2021	TJ
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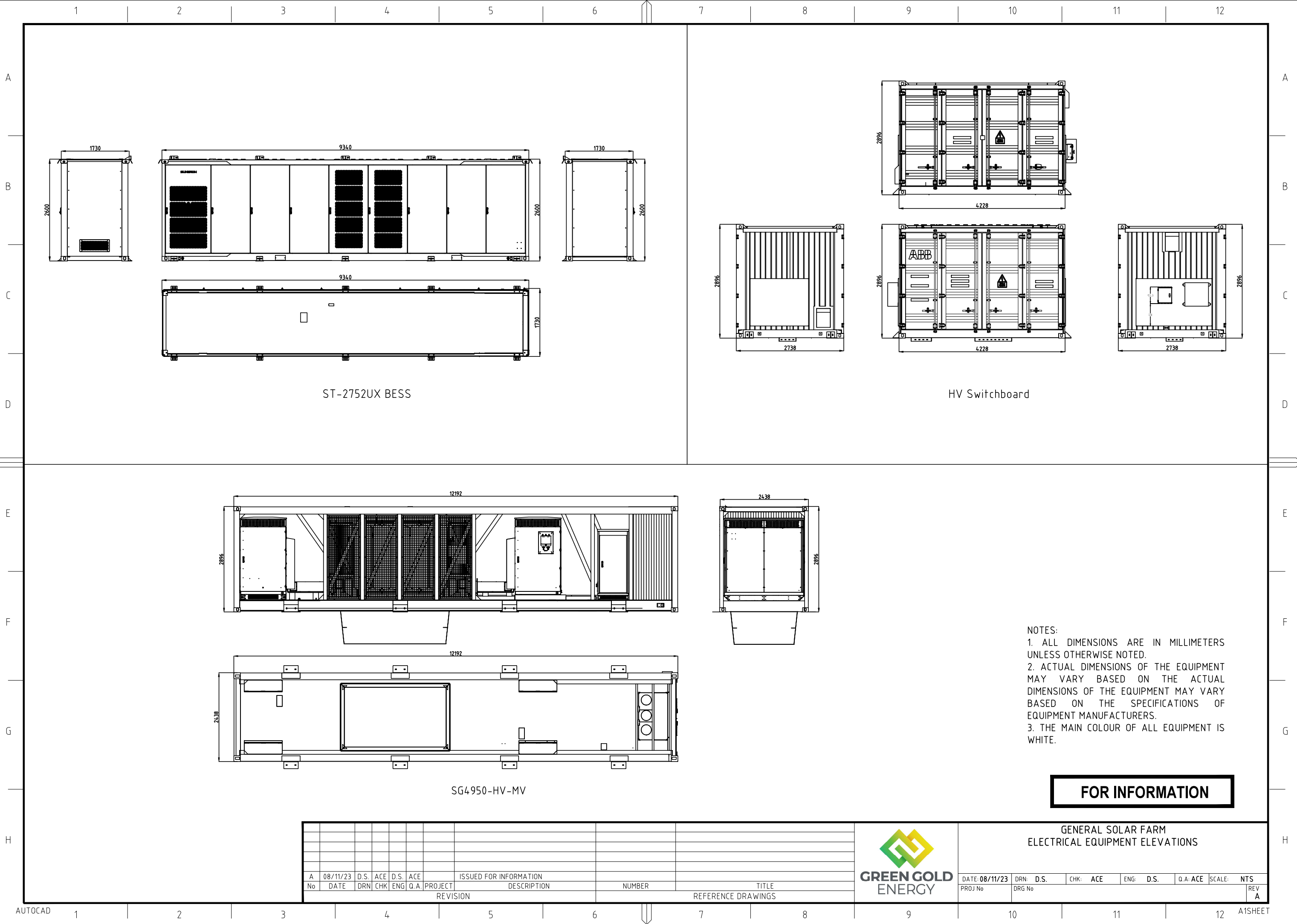
SITE DETAILS

LATITUDE	
LONGITUDE	
SNOW LOAD	-- PS
WIND LOAD	-- MPH ASCE 7-1
STOW STRAT.	-- STOW - --MP
NEXTRACKER	NXH 2.4.1.1
76 TRACKER	7-8-8-8-7-M-7-8-8-8
38 TRACKER	-M-7-8-8-8
DATE	07/09/202
DRAWN BY	T
CHECKED BY	

SHEET NO.:

M-201





Technical drawings of the container showing Front View and Side View with dimensions.

Front View: The container has a width of 4114.0 and a height of 2896.0. It features a central door with a warning symbol (a triangle with an exclamation mark) and a handle. The door is flanked by two side panels, each with a handle. The container is shown with a base and a top rail.

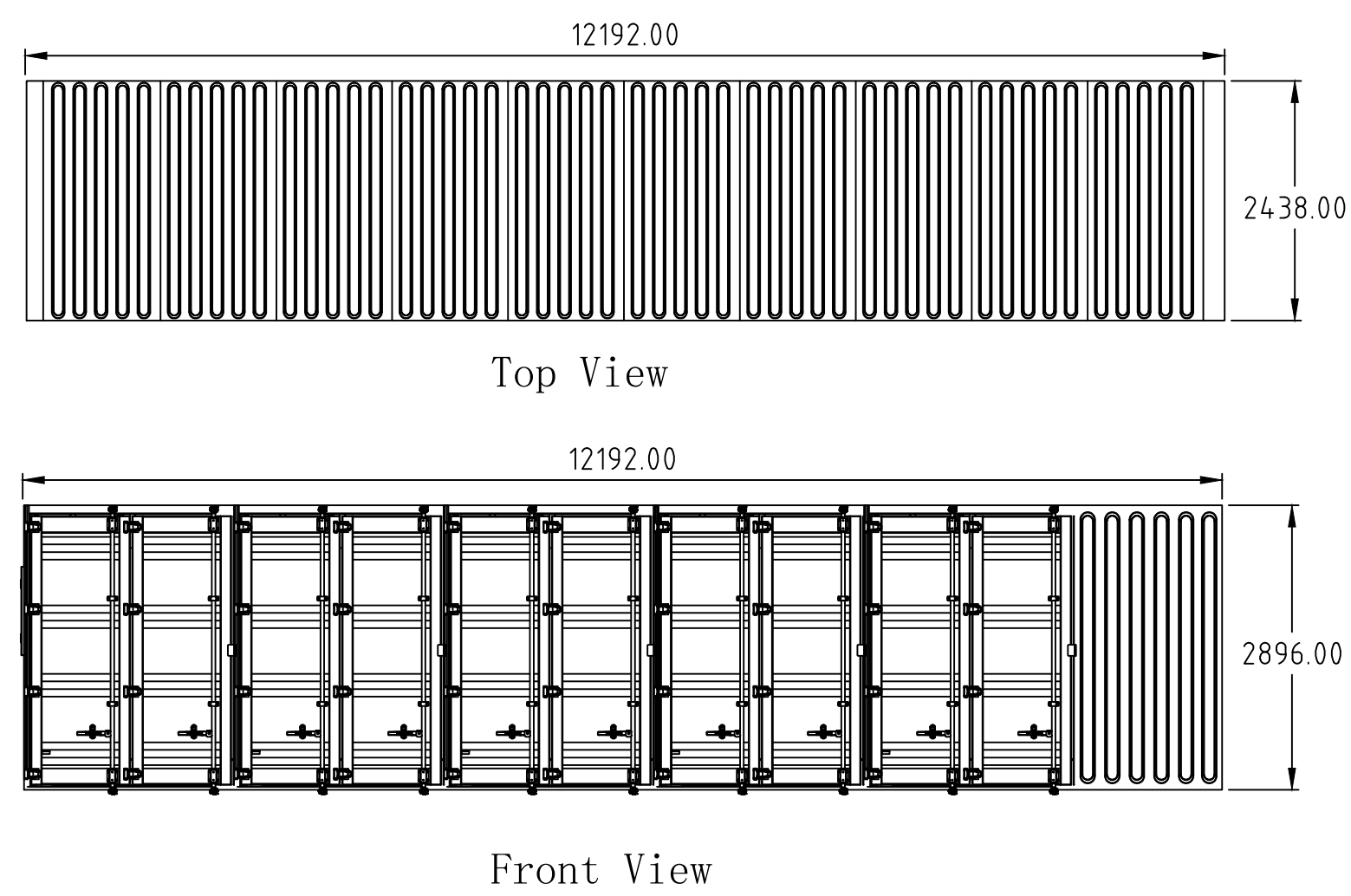
Side View: The container has a width of 1486.0 and a height of 4085.0. It features a side door with a handle and a lock. The side door is flanked by two side panels, each with a handle. The container is shown with a base and a top rail.



Technical drawings of the transformer showing Front View and Side View with dimensions.

Front View: The transformer has a total width of 2225.0 and a total height of 2407.0. It features four vertical cooling fins on the left side and three vertical cooling fins on the right side. A central vertical pipe is visible, and a horizontal pipe connects the top of the central pipe to the top of the left side.

Side View: The transformer has a total width of 1874.0. It shows the internal structure, including the central vertical pipe and the horizontal pipe connecting it to the top of the left side. The drawing also shows the cooling fins and the base of the transformer.



The technical drawings illustrate the SMC-500 system components and their dimensions:

- Front View:** Shows the overall dimensions of the system, with a width of 4000.0 and a height of 2591.0. It features three SMC-500 units and a control panel (控制柜) on the right. The units are labeled with "P. 40" and "NO".
- Top View:** Shows the layout of the system from above, with a width of 2438.0. It includes three SMC-500 units and a control panel (控制柜) on the right. The units are labeled with "P. 40" and "NO".
- Detail View:** A close-up of the SMC-500 unit, showing its internal components and dimensions. The unit is labeled "SMC-500" and "P. 40".

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. ACTUAL DIMENSIONS OF THE EQUIPMENT MAY VARY BASED ON THE SPECIFICATIONS OF EQUIPMENT MANUFACTURERS.

FOR INFORMATION

[illegible]

GENERAL SOLAR FARM ELECTRICAL EQUIPMENT ELEVATIONS

DATE: 13/03/20	DRN: ACE	CHK: ACE	ENG: ACE	Q.A: ACE	SCALE: NTS
PROJ No	DRG No				REV B



1. CHAIN LINK FABRIC TO BE CLASS 2 TYPE 1-R-L/B-T RAILED LESS 3 BARBED TOP SECURITY FENCING AS PER AS1725.1.
2. CHAIN LINK FABRIC TO BE ZINC/ALUM-ALLOY 2.50mm (LIGHT DUTY) WIRE WITH 50MM NOMINAL PITCH MESH (OR SIMILAR APPROVED)
3. SUPPORT CABLE TO BE 4mm SINGLE STRAND WITH ZINC/ALUM-ALLOY COATING (OR SIMILAR APPROVED)
4. LACING WIRE TO BE 2mm WITH ZINC/ALUM-ALLOY COATING (OR SIMILAR APPROVED)
5. CONCRETE FOOTING SHALL BE IN ACCORDANCE WITH AS3600, AND NOT LESS THAN THE MINIMUM SIZE SPECIFIED IN THIS DRAWING.
6. CONCRETE SHALL HAVE A CHARACTERISTIC COMPRESSIVE STRENGTH AT 28 DAYS OF 25MPA
7. GATES SHALL BE DESIGNED FOR BOTH INWARDS AND OUTWARDS OPENING
8. GATE DETAILS PROVIDED ON THIS DRAWING ARE TO BE USED AS ALTERNATIVE TO THE DRAWINGS PLC FENCING PROVIDE.
9. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH AS1725.1 AND PLC FENCING DRAWING AND DESIGN
10. ALL DIMENSIONS MENTIONED IN THIS DRAWING ARE IN mm, OR OTHERWISE SPECIFIED.

DOUBLE ACCESS GATES					
WIDTH OF GATE OPENING	GATE POST			FOOTING	
	DN	O.D	WALL	DIA	DEPTH
6000	DN 80	88.9	4	300	1000



DATE: 18/05/22	DES: ACE	DRN: M.G.	APP: A.W.	SCALE: NTS
PROJ No GG 21	DRG No GG21-10-003-1	REV B		