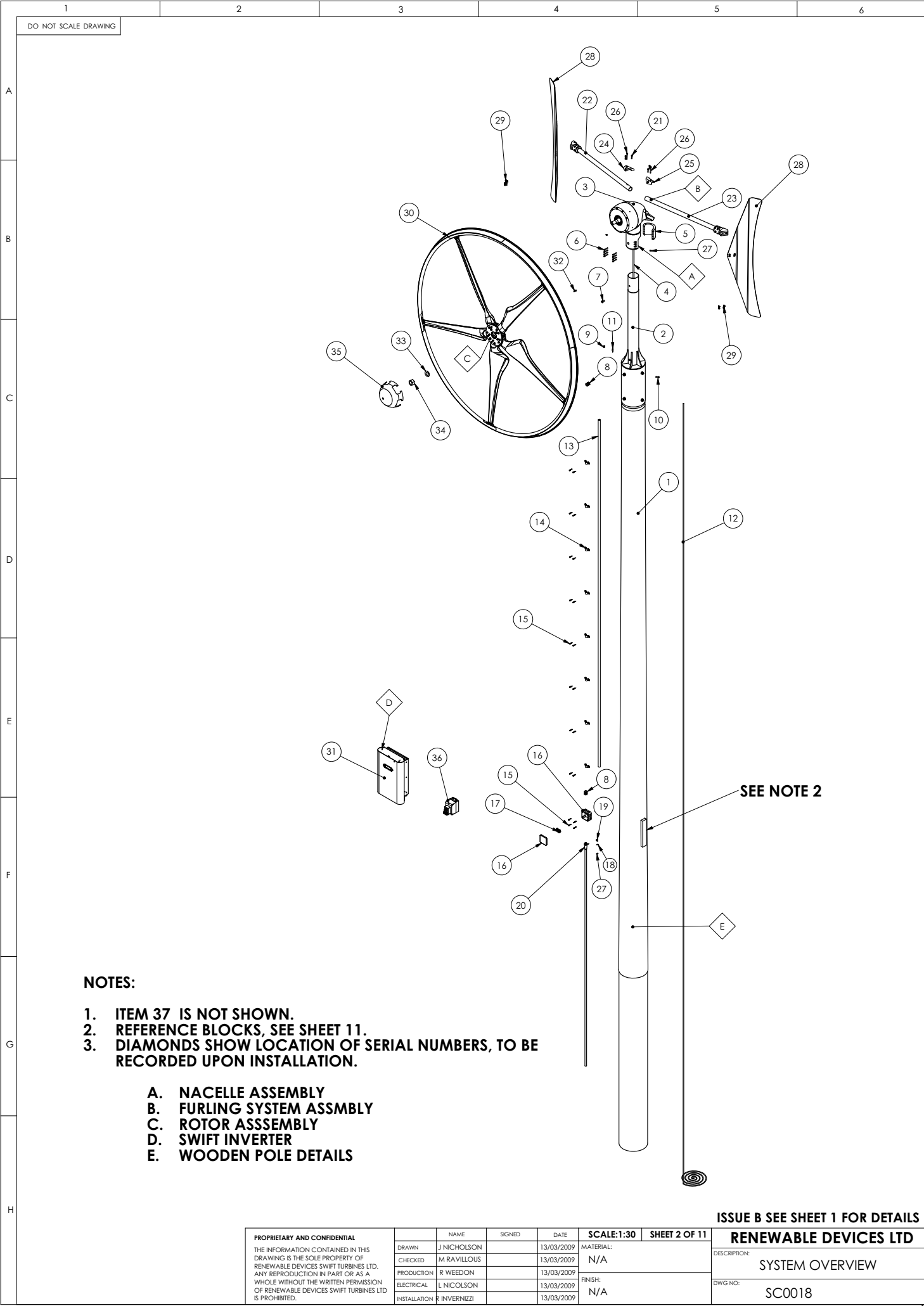


1

A3



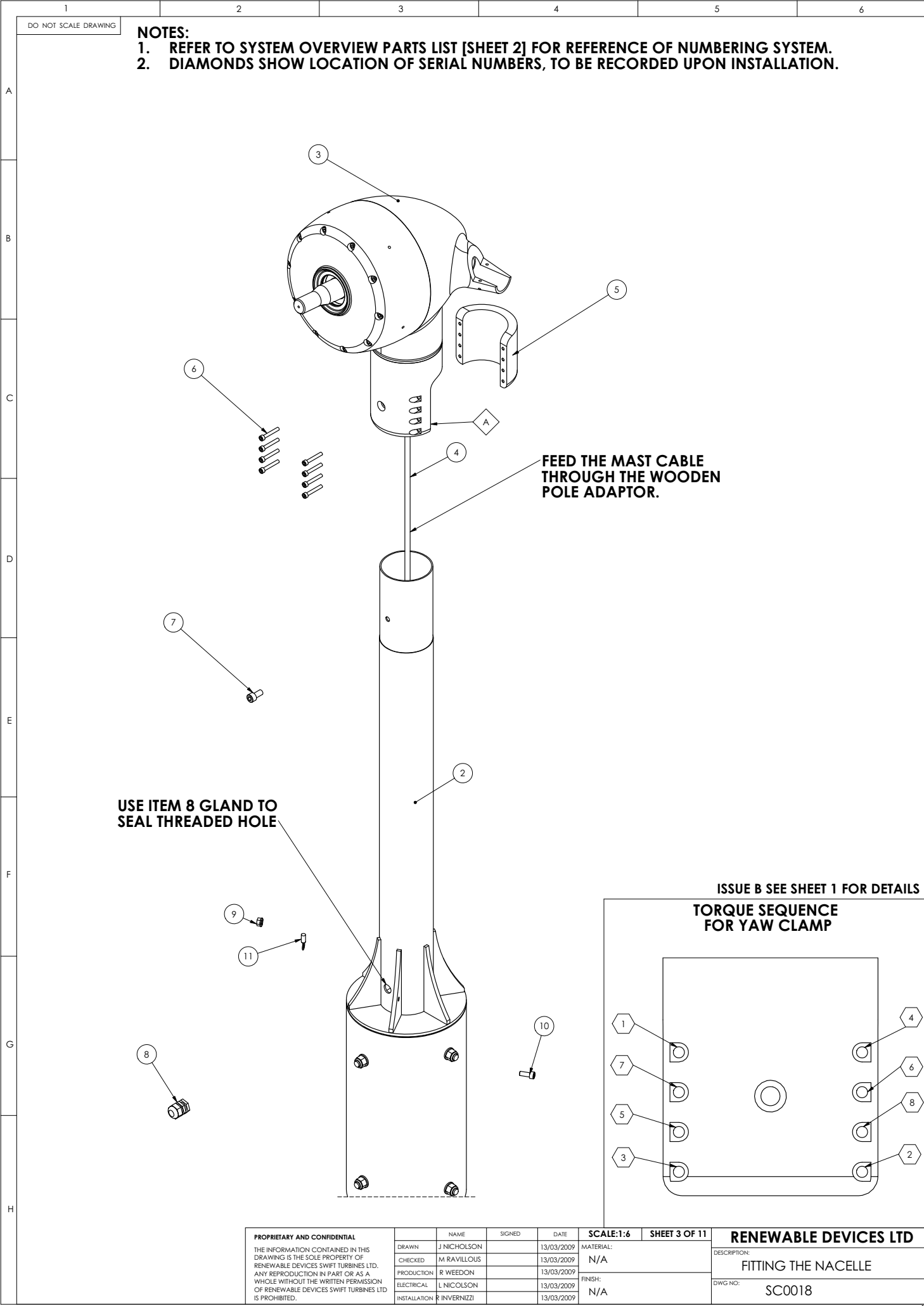
NOTES:

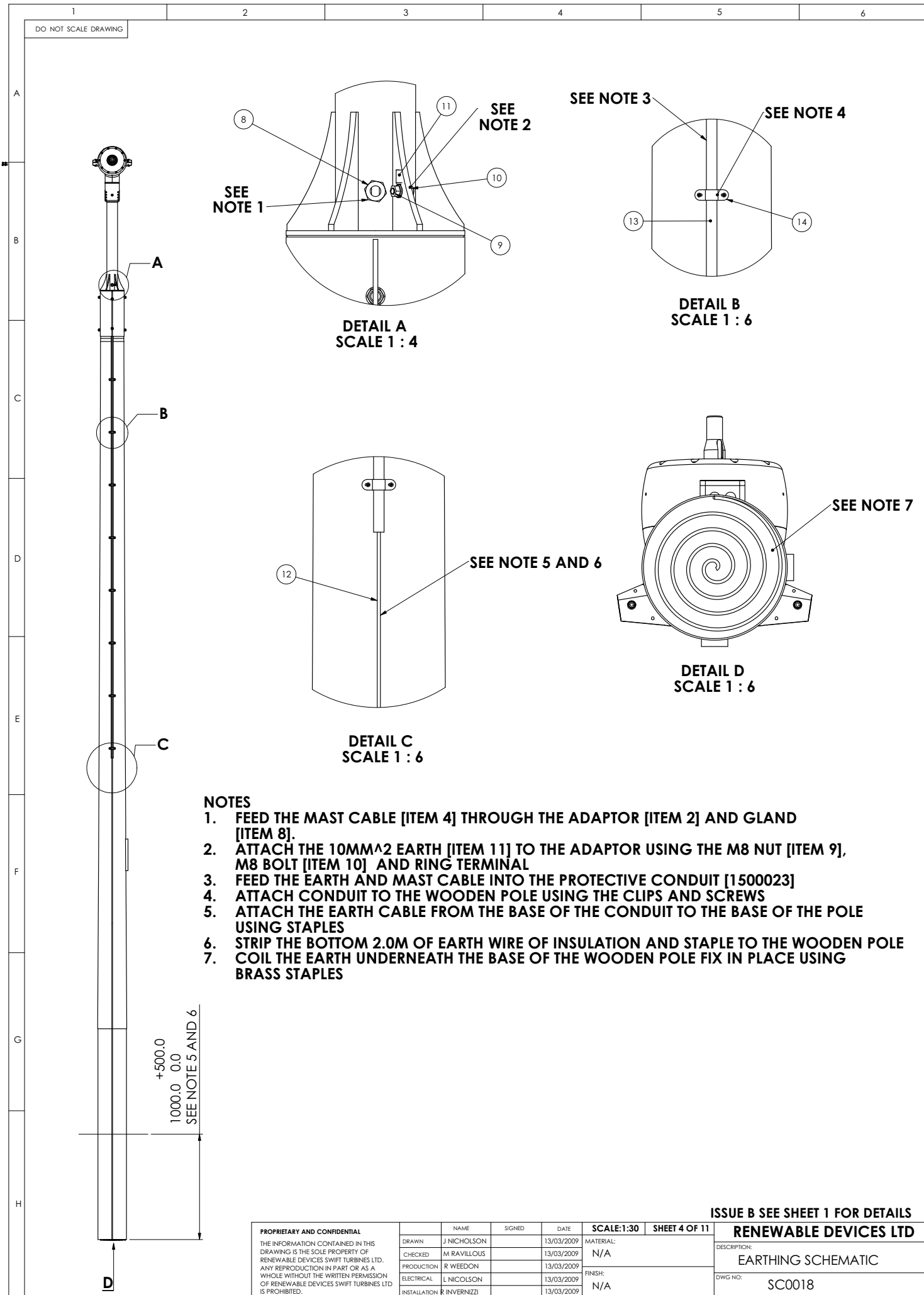
1. ITEM 37 IS NOT SHOWN.
2. REFERENCE BLOCKS, SEE SHEET 11.
3. DIAMONDS SHOW LOCATION OF SERIAL NUMBERS, TO BE RECORDED UPON INSTALLATION.

- A. NACELLE ASSEMBLY
- B. FURLING SYSTEM ASSEMBLY
- C. ROTOR ASSEMBLY
- D. SWIFT INVERTER
- E. WOODEN POLE DETAILS

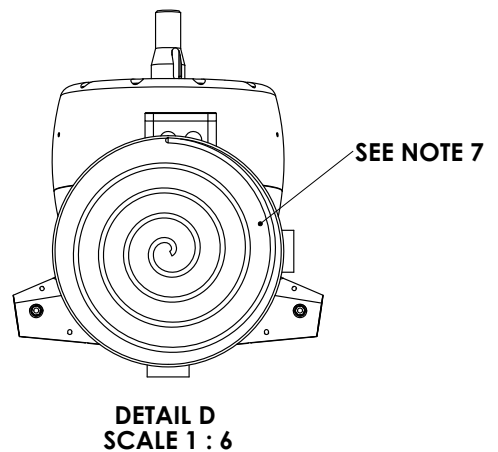
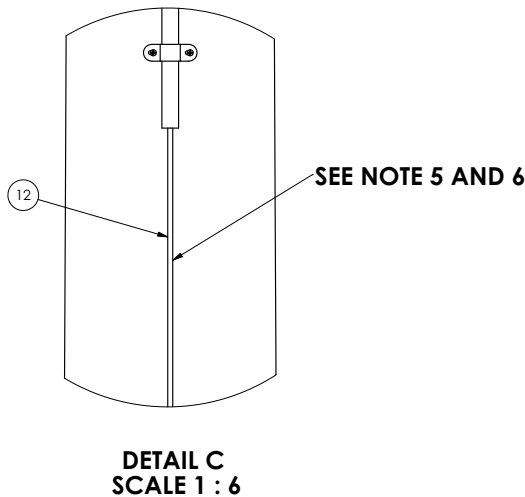
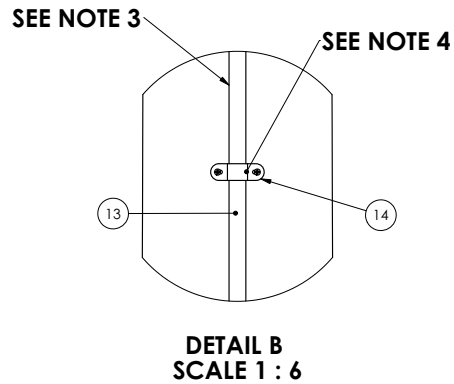
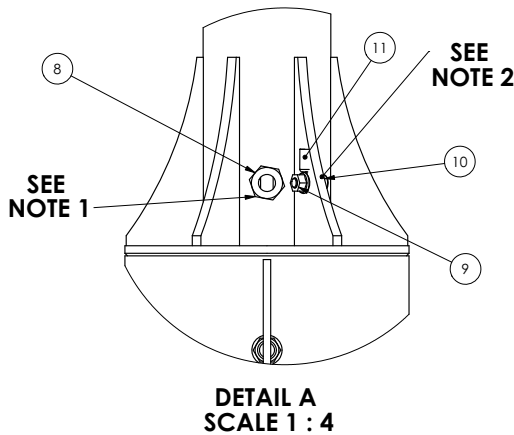
ISSUE B SEE SHEET 1 FOR DETAILS

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RENEWABLE DEVICES SWIFT TURBINES LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF RENEWABLE DEVICES SWIFT TURBINES LTD IS PROHIBITED.		NAME	SIGNED	DATE	SCALE:1:30	SHEET 2 OF 11	RENEWABLE DEVICES LTD
	DRAWN	J NICHOLSON		13/03/2009	MATERIAL: N/A	DESCRIPTION: SYSTEM OVERVIEW	
	CHECKED	M RAVILLOUS		13/03/2009			FINISH: N/A
	PRODUCTION	R WEEDON		13/03/2009			
	ELECTRICAL	L NICOLSON		13/03/2009			
	INSTALLATION	R INVERNIZZI		13/03/2009			





DO NOT SCALE DRAWING



NOTES

1. FEED THE MAST CABLE [ITEM 4] THROUGH THE ADAPTOR [ITEM 2] AND GLAND [ITEM 8].
2. ATTACH THE 10MM² EARTH [ITEM 11] TO THE ADAPTOR USING THE M8 NUT [ITEM 9], M8 BOLT [ITEM 10] AND RING TERMINAL
3. FEED THE EARTH AND MAST CABLE INTO THE PROTECTIVE CONDUIT [1500023]
4. ATTACH CONDUIT TO THE WOODEN POLE USING THE CLIPS AND SCREWS
5. ATTACH THE EARTH CABLE FROM THE BASE OF THE CONDUIT TO THE BASE OF THE POLE USING STAPLES
6. STRIP THE BOTTOM 2.0M OF EARTH WIRE OF INSULATION AND STAPLE TO THE WOODEN POLE
7. COIL THE EARTH UNDERNEATH THE BASE OF THE WOODEN POLE FIX IN PLACE USING BRASS STAPLES

+500.0
1000.0 0.0
SEE NOTE 5 AND 6

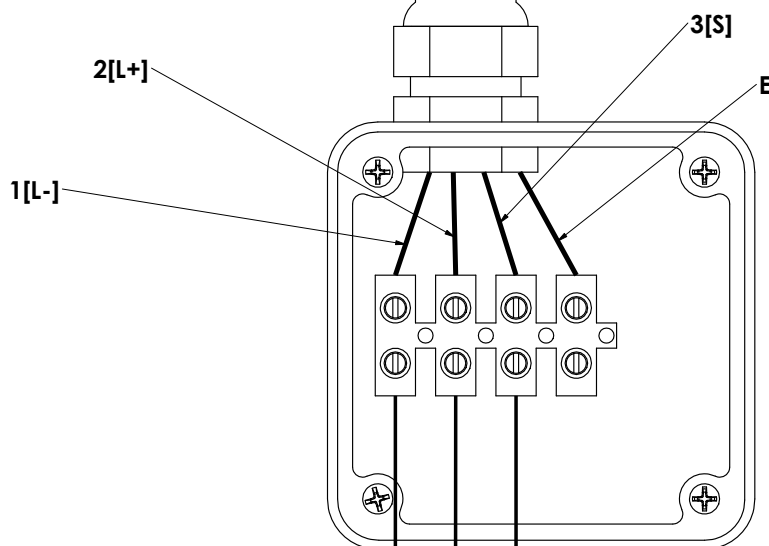
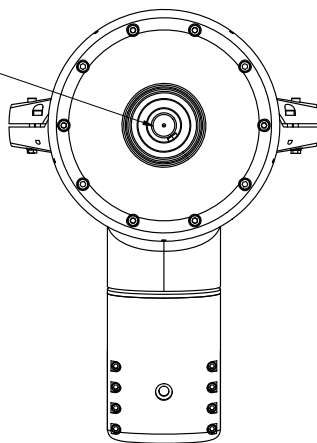
ISSUE B SEE SHEET 1 FOR DETAILS

PROPRIETARY AND CONFIDENTIAL				NAME	SIGNED	DATE	SCALE: 1:30	SHEET 4 OF 11	RENEWABLE DEVICES LTD
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RENEWABLE DEVICES SWIFT TURBINES LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF RENEWABLE DEVICES SWIFT TURBINES LTD IS PROHIBITED.				DRAWN	J NICHOLSON	13/03/2009	MATERIAL: N/A		DESCRIPTION:
				CHECKED	M RAVILLOUS	13/03/2009			EARTHING SCHEMATIC
				PRODUCTION	R WEEDON	13/03/2009	FINISH: N/A		DWG NO:
				ELECTRICAL	L NICHOLSON	13/03/2009			SC0018
				INSTALLATION	R INVERNIZZI	13/03/2009			

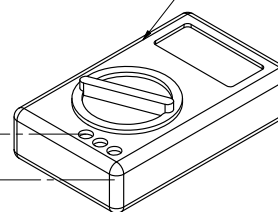
DO NOT SCALE DRAWING

TEST E1: BRAKE RELEASE AND DC VOLTAGE

CLOCKWISE
ROTATION OF SHAFT



MULTIMETER



12V BATTERY OR POWER SUPPLY

PROPRIETARY AND CONFIDENTIAL

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	NAME	SIGNED	DATE
DRAWN	J NICHOLSON		13/03/2009
CHECKED	M RAVILLOUS		13/03/2009
PRODUCTION	R WEEDON		13/03/2009
ELECTRICAL	L NICOLSON		13/03/2009
INSTALLATION	R INVERNIZZI		13/03/2009

SCALE: 1:5

SHEET 5 OF 11

MATERIAL:

N/A

FINISH:

N/A

ISSUE B SEE SHEET 1 FOR DETAILS

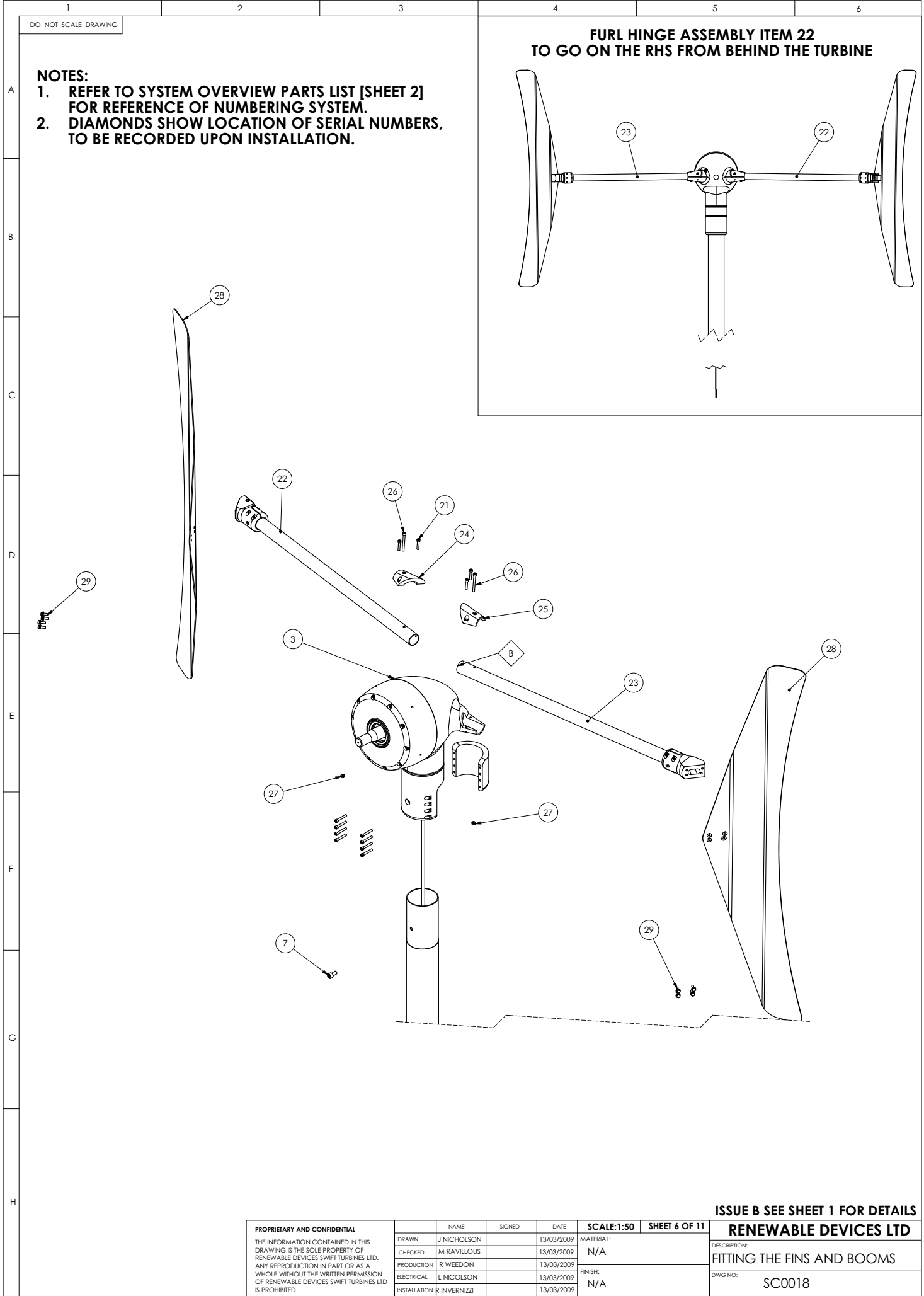
RENEWABLE DEVICES LTD

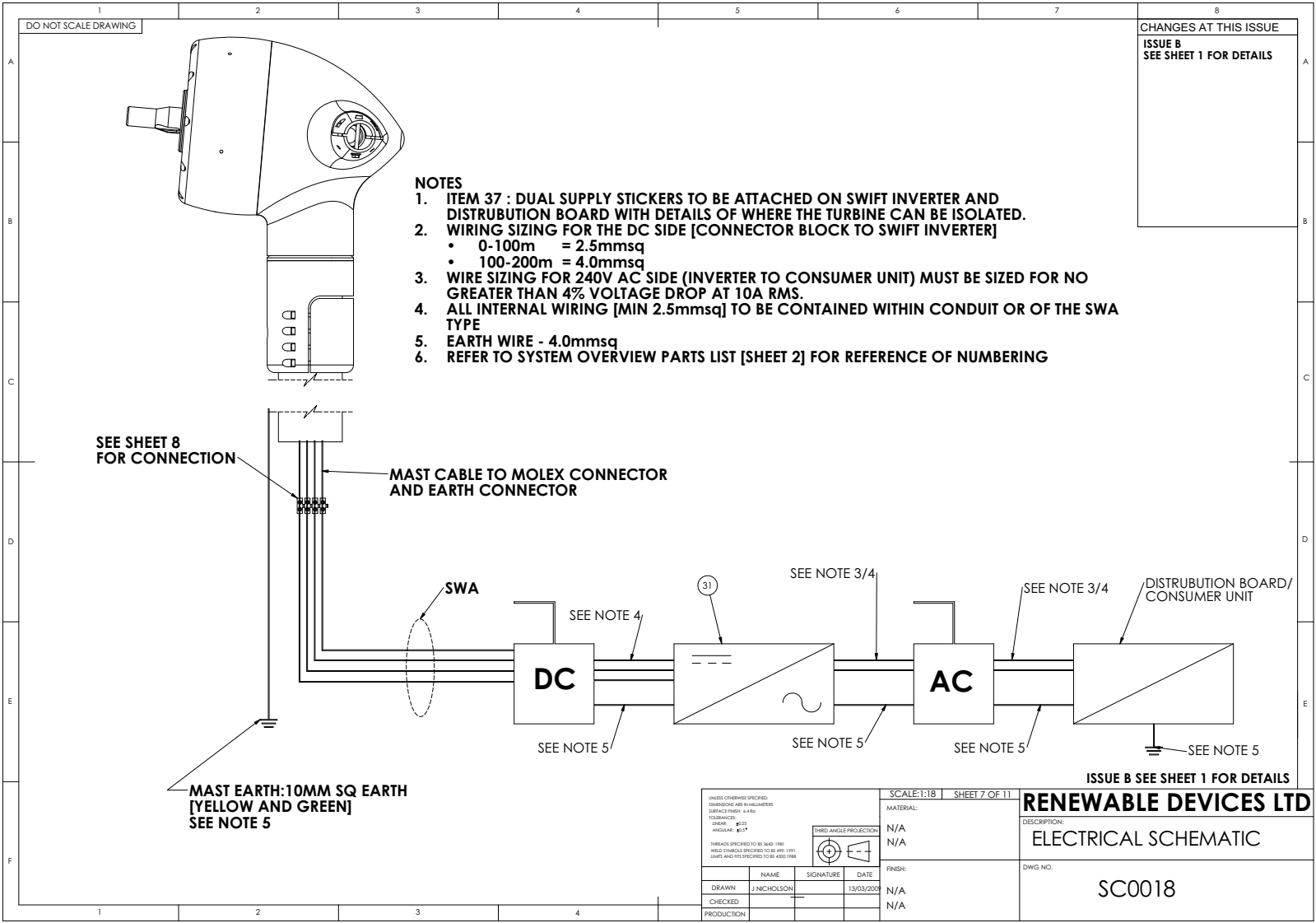
DESCRIPTION:

ELECTRICAL TEST: E1

DWG NO:

SC0018





A

13

8

3[S]

 $2[L+]$

1 [L-]

4[E]

17

16

18

16

20

19

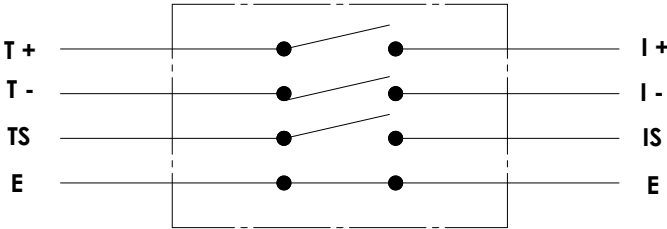
27

SWA-

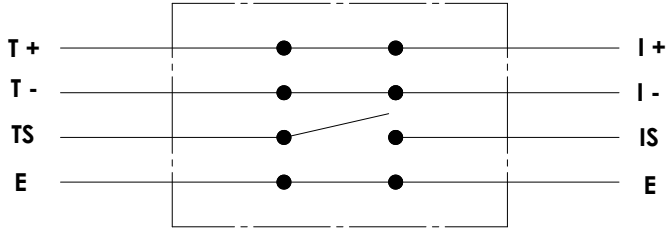
1. REFER TO SYSTEM OVERVIEW PARTS LIST [SHEET 2] FOR REFERENCE OF NUMBERING SYSTEM.

RENEWABLE DEVICES LTD

A3



SWITCH POSITION - OFF



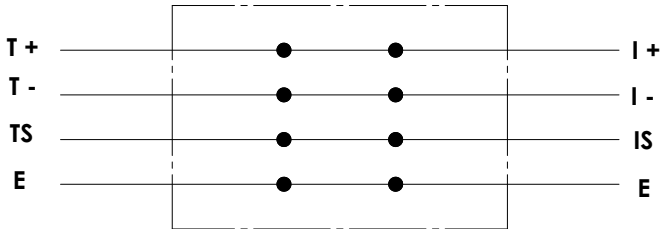
SWITCH POSITION - BRAKE

TO TURBINE

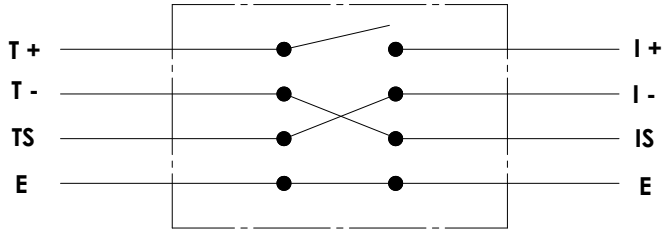
- SWA CABLE
- SEE ELECTRICAL SCHEMATIC FOR CABLE SIZING

TO SWIFT INVERTER

- TRI RATED CABLE
- SEE ELECTRICAL SCHEMATIC FOR SIZING



SWITCH POSITION - ON



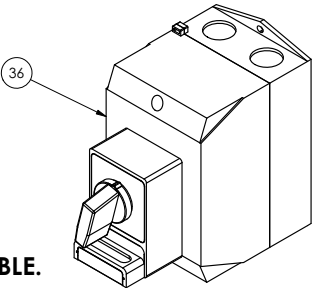
SWITCH POSITION - RESET

NOTES

KEY

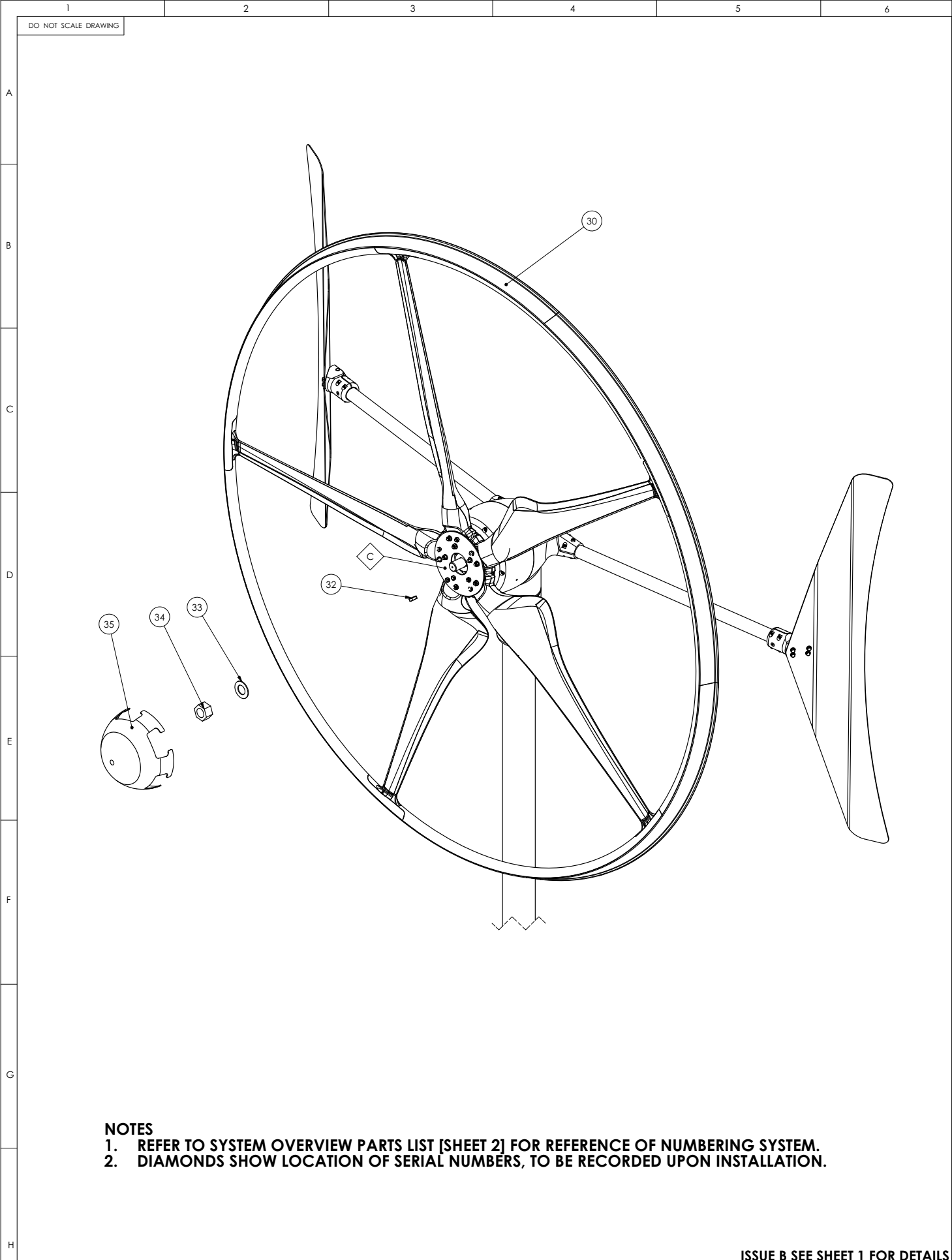
T+	TURBINE POSITIVE	BROWN
T-	TURBINE NEGATIVE	GREY
I+	INVERTER POSITIVE	BROWN
I-	INVERTER NEGATIVE	GREY
TS	TURBINE SIGNAL	BLACK WITH YELLOW SLEEVE
IS	INVERTER SIGNAL	YELLOW
E	EARTH	GREEN + YELLOW

- THE DC ISOLATOR SHOULD BE INSTALLED SO THAT IT IS ACCESSIBLE TO THE SWIFT INVERTER BUT AS CLOSE TO THE TURBINE AS POSSIBLE.
- THE DC ISOLATOR MUST BE SUPPLIED BY RDST LTD.
- [NORMAL DC ISOLATORS DO NOT MEET THE SPEC]
- REFER TO SYSTEM OVERVIEW PARTS LIST [SHEET 2] FOR REFERENCE OF NUMBERING SYSTEM



ISSUE B SEE SHEET 1 FOR DETAILS

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RENEWABLE DEVICES SWIFT TURBINES LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF RENEWABLE DEVICES SWIFT TURBINES LTD IS PROHIBITED.		NAME	SIGNED	DATE	SCALE:1:18	SHEET 9 OF 11	RENEWABLE DEVICES LTD
	DRAWN	J NICHOLSON		13/03/2009	MATERIAL:		
	CHECKED	M RAVILLOUS		13/03/2009	N/A		DC ISOLATOR WIRING SCHEMATIC
	PRODUCTION	R WEEDON		13/03/2009	FINISH:		DWG NO:
	ELECTRICAL	L NICOLSON		13/03/2009	N/A		SC0018
	INSTALLATION	R INVERNIZZI		13/03/2009			

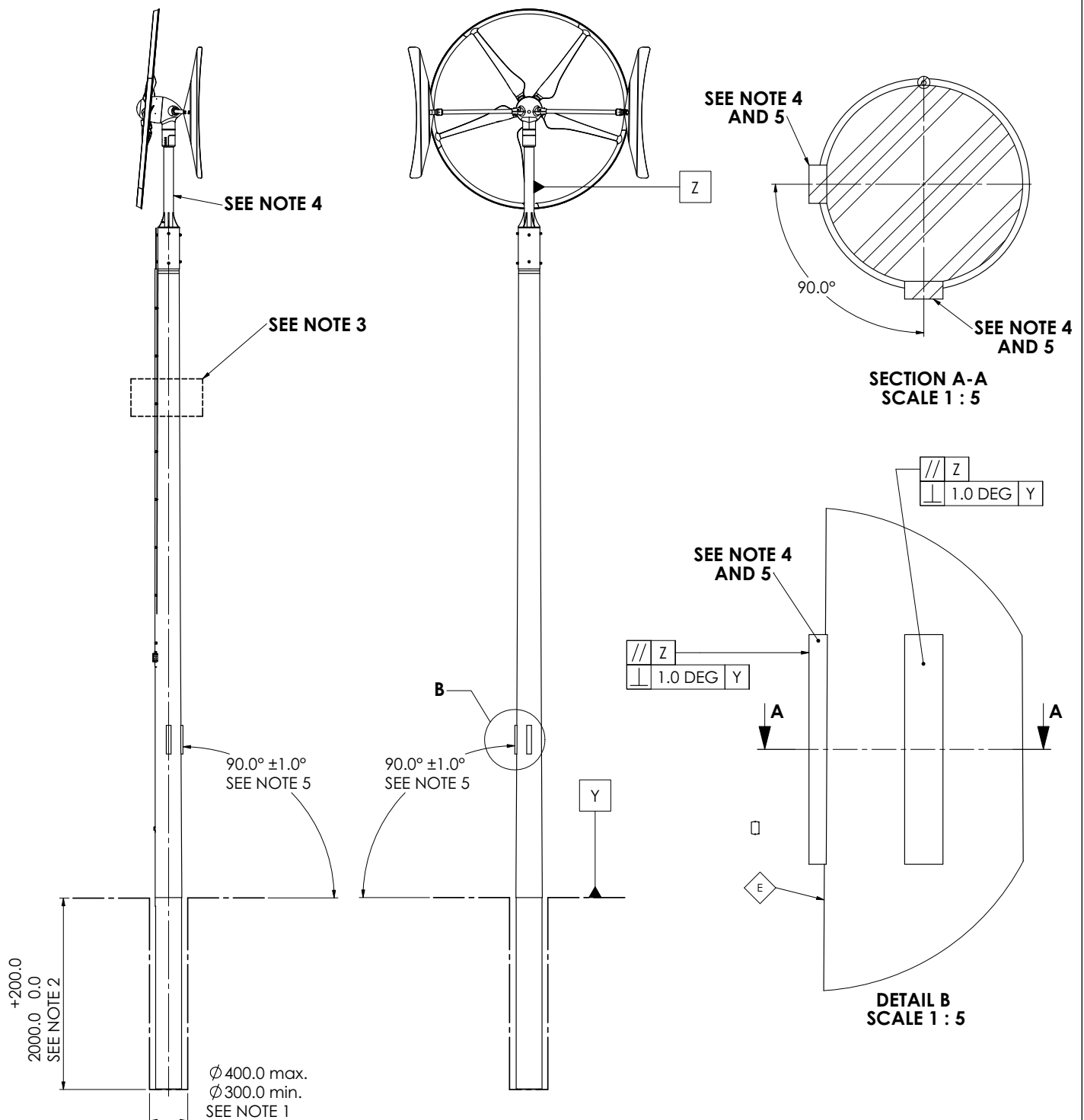


- NOTES**
- 1. REFER TO SYSTEM OVERVIEW PARTS LIST [SHEET 2] FOR REFERENCE OF NUMBERING SYSTEM.
 - 2. DIAMONDS SHOW LOCATION OF SERIAL NUMBERS, TO BE RECORDED UPON INSTALLATION.

PROPRIETARY AND CONFIDENTIAL				NAME	SIGNED	DATE	SCALE:1:100	SHEET 10 OF 11	ISSUE B SEE SHEET 1 FOR DETAILS
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RENEWABLE DEVICES SWIFT TURBINES LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF RENEWABLE DEVICES SWIFT TURBINES LTD IS PROHIBITED.				DRAWN	J NICHOLSON	13/03/2009	MATERIAL: N/A		DESCRIPTION:
				CHECKED	M RAVILLOUS	13/03/2009			FITTING THE ROTOR
				PRODUCTION	R WEEDON	13/03/2009	FINISH: N/A		DWG NO:
				ELECTRICAL	L NICOLSON	13/03/2009			SC0018
				INSTALLATION	R INVERNIZZI	13/03/2009			

NOTES

1. HOLE/AUGER DIAMETER DEPENDS ON THE NOMINAL DIAMETER OF POLE TO BE INSTALLED.
2. DIMENSION SHOWS DEPTH OF HOLE WITH RELATION TO THE GROUND
3. TURBINE CAN BE LIFTED INTO POSITION USING THE CORRECT EQUIPMENT, WHEN LIFTING TAKE CARE NOT TO DAMAGE THE TURBINE WIRING AND CONDUIT.
4. CHECK THAT THE ADAPTOR AND BOTH REFERENCE BLOCKS ARE PARALLEL BEFORE LIFTING
5. TWO REFERENCE/LEVELLING BLOCKS ARE USED TO ACHIEVE THE CORRECT POLE/TURBINE ORIENTATION FROM GROUND LEVEL.
6. REFER TO SYSTEM OVERVIEW PARTS LIST [SHEET 2] FOR REFERENCE OF NUMBERING SYSTEM
7. DIAMONDS SHOW LOCATION OF SERIAL NUMBERS, TO BE RECORDED UPON INSTALLATION.



ISSUE B SEE SHEET 1 FOR DETAILS

PROPRIETARY AND CONFIDENTIAL

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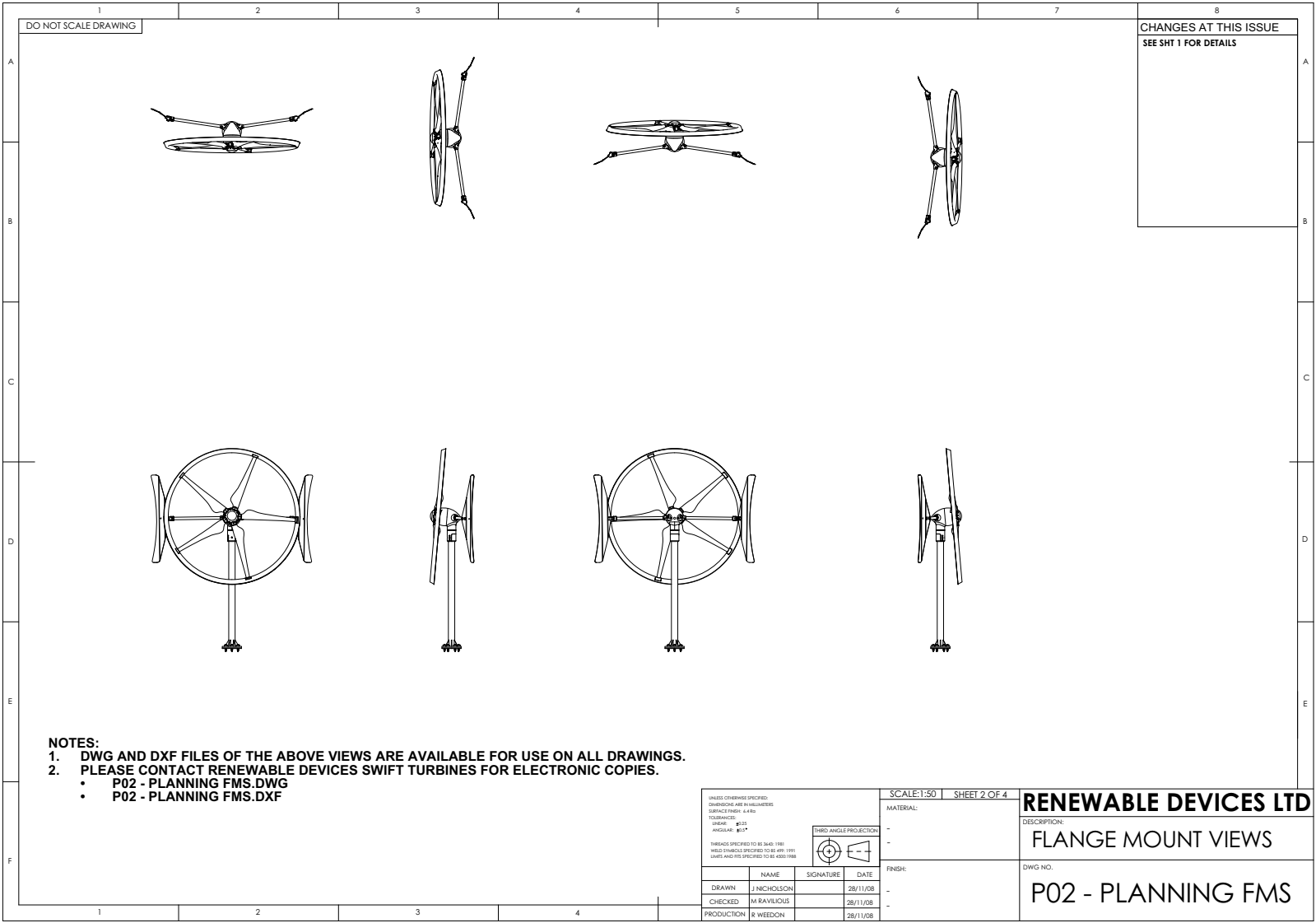
	NAME	SIGNED	DATE	SCALE:1:40	SHEET 11 OF 11
DRAWN	J NICHOLSON		13/03/2009	MATERIAL:	
CHECKED	M RAVILLOUS		13/03/2009		N/A
PRODUCTION	R WEEDON		13/03/2009	FINISH:	
ELECTRICAL	L NICOLSON		13/03/2009		N/A
INSTALLATION	R INVERNIZZI		13/03/2009		

RENEWABLE DEVICES LTD

DESCRIPTION:
POLE PLANTING SCHEMATIC

DWG NO:
SC0018

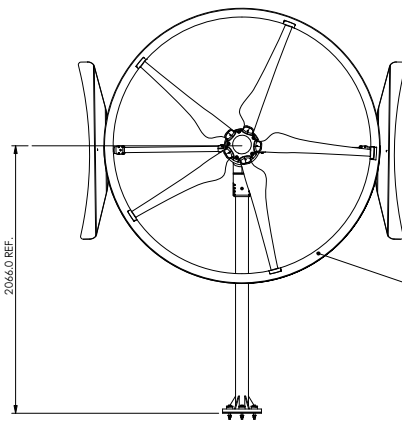
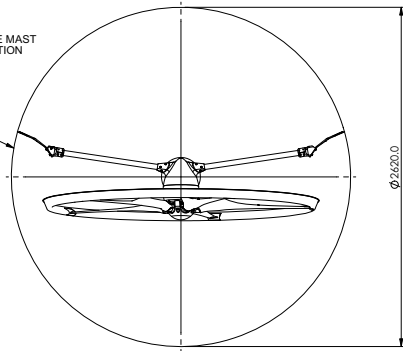




- NOTES:
- 1. DWG AND DXF FILES OF THE ABOVE VIEWS ARE AVAILABLE FOR USE ON ALL DRAWINGS.
 - 2. PLEASE CONTACT RENEWABLE DEVICES SWIFT TURBINES FOR ELECTRONIC COPIES.
 - P02 - PLANNING FMS.DWG
 - P02 - PLANNING FMS.DXF

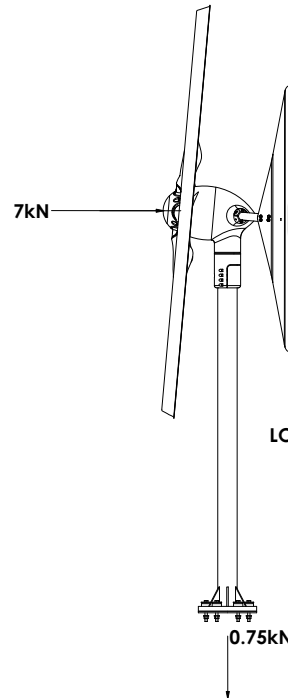
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: A4.80 TOLERANCES: HOLE: +0.05 SHAFT: +0.07				SCALE: 1:50 SHEET 2 OF 4		RENEWABLE DEVICES LTD
THIRD ANGLE PROJECTION				MATERIAL:		
TUBES SPECIFIED TO BS 3602 1991 WELDS SPECIFIED TO BS 499 1991 GASKETS SPECIFIED TO BS 499 1991				FINISH:		DWG NO. P02 - PLANNING FMS
DRAWN	J NICHOLSON	SIGNATURE	28/11/08			
CHECKED	M RAVILIOUS	SIGNATURE	28/11/08			
PRODUCTION	R WEDDON	SIGNATURE	28/11/08			

YAW DIAMETER
THE TURBINE ROTATES 360°
AROUND THE CENTRE OF THE MAST
- TRACKING THE WIND DIRECTION




ROTOR BLADES
SWEPT AREA = 3.46m sq
SWEPT DIAMETER = 2.1m

1. NACELLE BODY GENERATOR AND BOOMS ARE FINISHED TO RAL: 9016 (TRAFFIC WHITE)
2. FINS AND ROTOR ARE FINISHED TO MATT BLACK.
3. BUILDING/ WALL SHOWN IN VIEWS IS FOR VISUALISATION ONLY.
4. ALL LOADS ARE INDICATIVE ONLY AND WILL BE SITE AND INSTALLATION SPECIFIC. IT IS RECOMMENDED THAT STRUCTURAL ADVICE IS SOUGHT PRIOR TO INSTALLATION



LOADINGS VIEW
SCALE: 1:20

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH: 4.0/6.3
TOLERANCES:
LINEAR: ± 0.15
ANGULAR: $\pm 1^\circ$

THIRD ANGLE PROJECTION


THREADS SPECIFIED TO BS 8468: 1981
WELD SYMBOLS SPECIFIED TO BS 4560: 1991
UNITS AND ITS SPECIFIED TO BS 4550: 1988

SCALE: 1:30

SHEET 3 OF 4

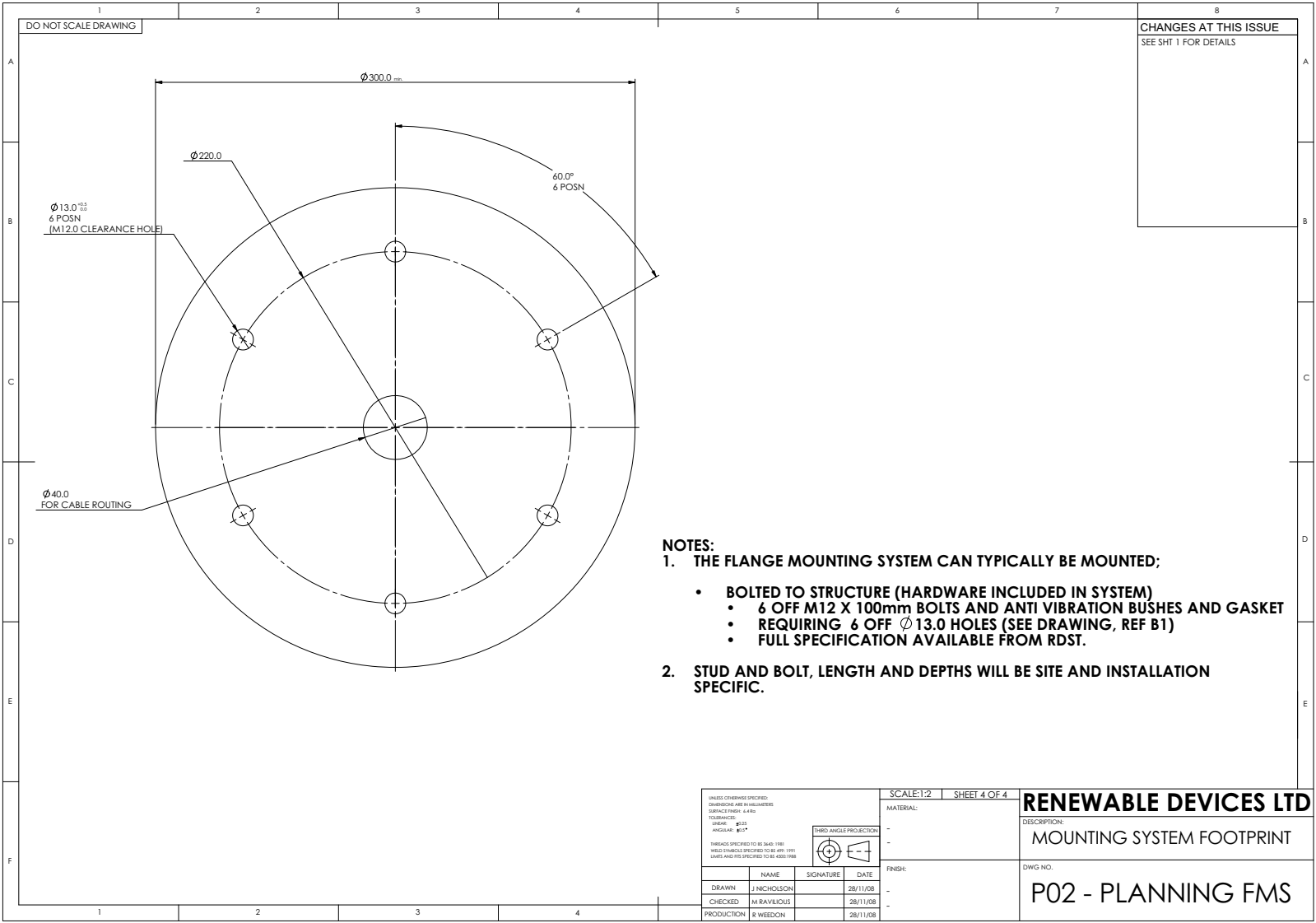
RENEWABLE DEVICES LTD

DESCRIPTION:
TURBINE LOADINGS TO BS61400

FINISH:
-
-
-

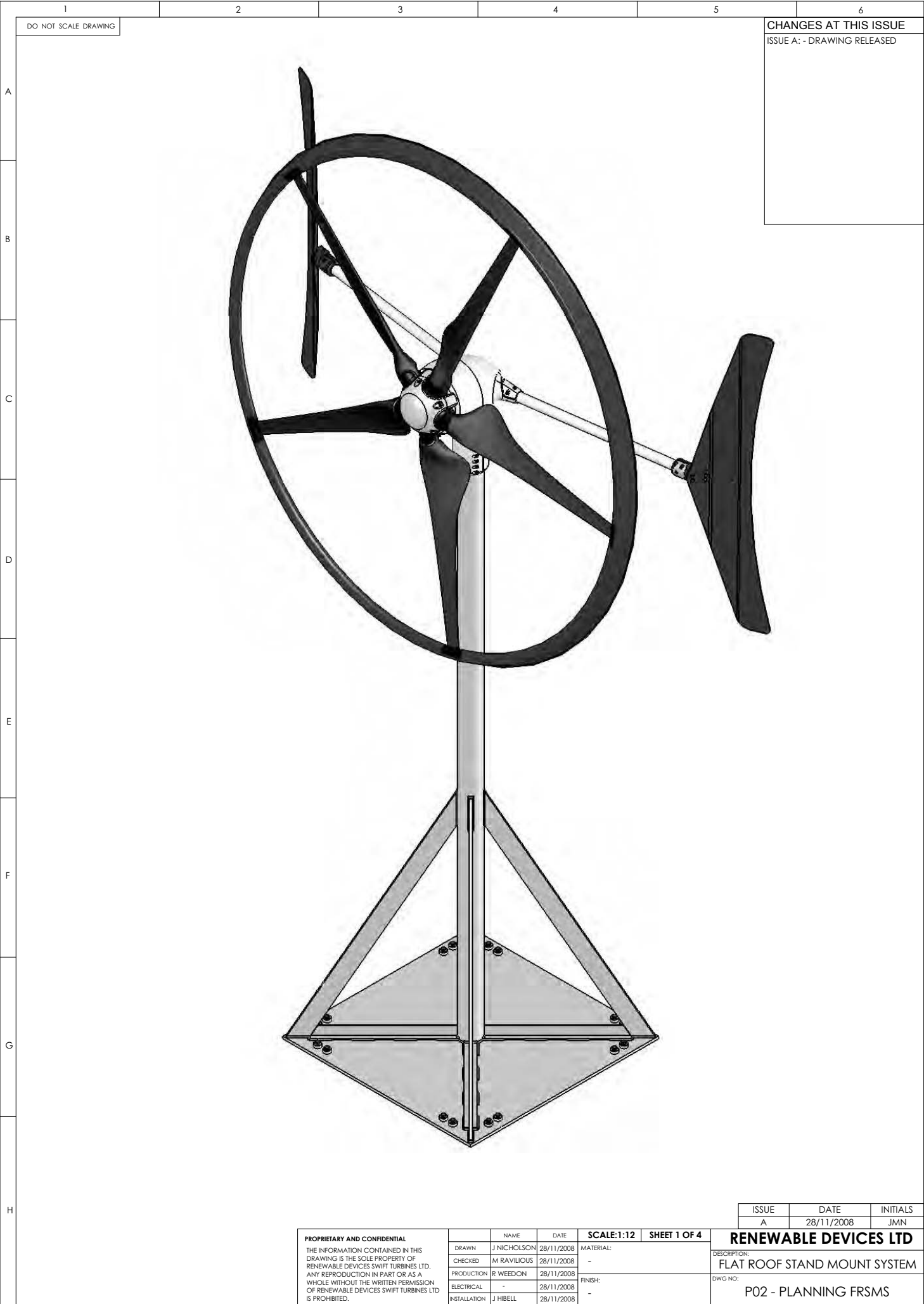
DWG NO.
P02 - PLANNING FMS

NAME	SIGNATURE	DATE
DRAWN: J NICHOLSON		28/11/08
CHECKED:		
PRODUCTION:		



- NOTES:**
- THE FLANGE MOUNTING SYSTEM CAN TYPICALLY BE MOUNTED;
 - BOLTED TO STRUCTURE (HARDWARE INCLUDED IN SYSTEM)
 - 6 OFF M12 X 100mm BOLTS AND ANTI VIBRATION BUSHES AND GASKET
 - REQUIRING 6 OFF Ø 13.0 HOLES (SEE DRAWING, REF B1)
 - FULL SPECIFICATION AVAILABLE FROM RDST.
 - STUD AND BOLT, LENGTH AND DEPTHS WILL BE SITE AND INSTALLATION SPECIFIC.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: A 4.0 TOLERANCES: HOLE: ±0.15 ANGULAR: ±0.5°				SCALE: 1:2	SHEET 4 OF 4	RENEWABLE DEVICES LTD
THIRD ANGLE PROJECTION				MATERIAL:		
				FINISH:		DESCRIPTION: MOUNTING SYSTEM FOOTPRINT
				DWG NO.		P02 - PLANNING FMS



DO NOT SCALE DRAWING

CHANGES AT THIS ISSUE
ISSUE A: - DRAWING RELEASED

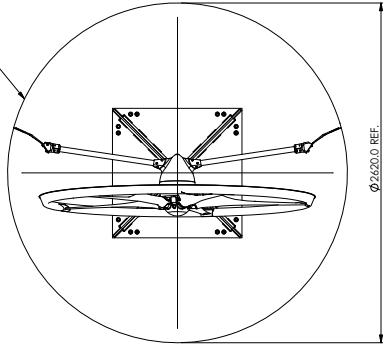
PROPRIETARY AND CONFIDENTIAL
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ANY REPRODUCTION IN PART OR AS A
WHOLE WITHOUT THE WRITTEN PERMISSION
OF RENEWABLE DEVICES SWIFT TURBINES LTD
IS PROHIBITED.

	NAME	DATE
DRAWN	J NICHOLSON	28/11/2008
CHECKED	M RAVILIOUS	28/11/2008
PRODUCTION	R WEEDON	28/11/2008
ELECTRICAL	-	28/11/2008
INSTALLATION	J HIBELL	28/11/2008

SCALE:1:12	SHEET 1 OF 4
MATERIAL:	-
FINISH:	-

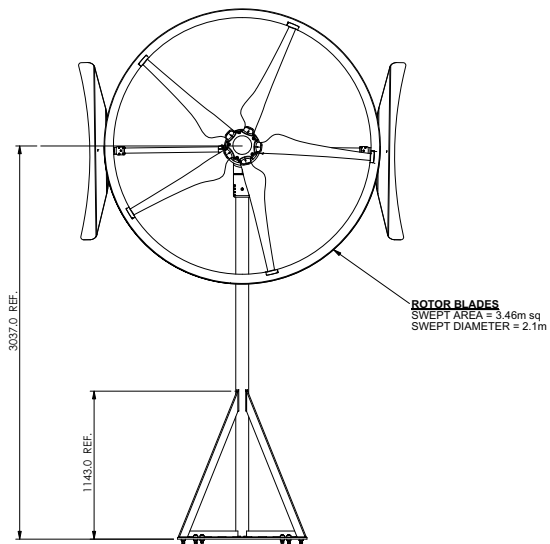
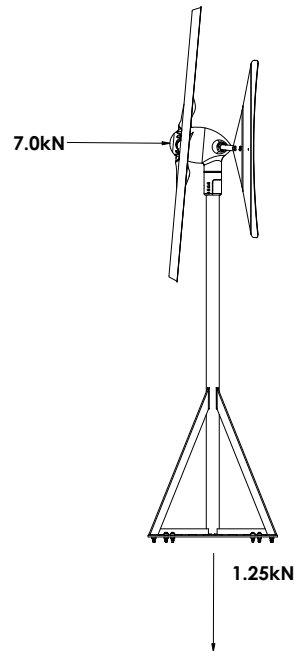
ISSUE	DATE	INITIALS
A	28/11/2008	JMN
RENEWABLE DEVICES LTD		
DESCRIPTION: FLAT ROOF STAND MOUNT SYSTEM		
DWG NO: P02 - PLANNING FRSMS		

YAW DIAMETER
THE TURBINE ROTATES 360°
AROUND THE CENTRE OF THE MAST
- TRACKING THE WIND DIRECTION




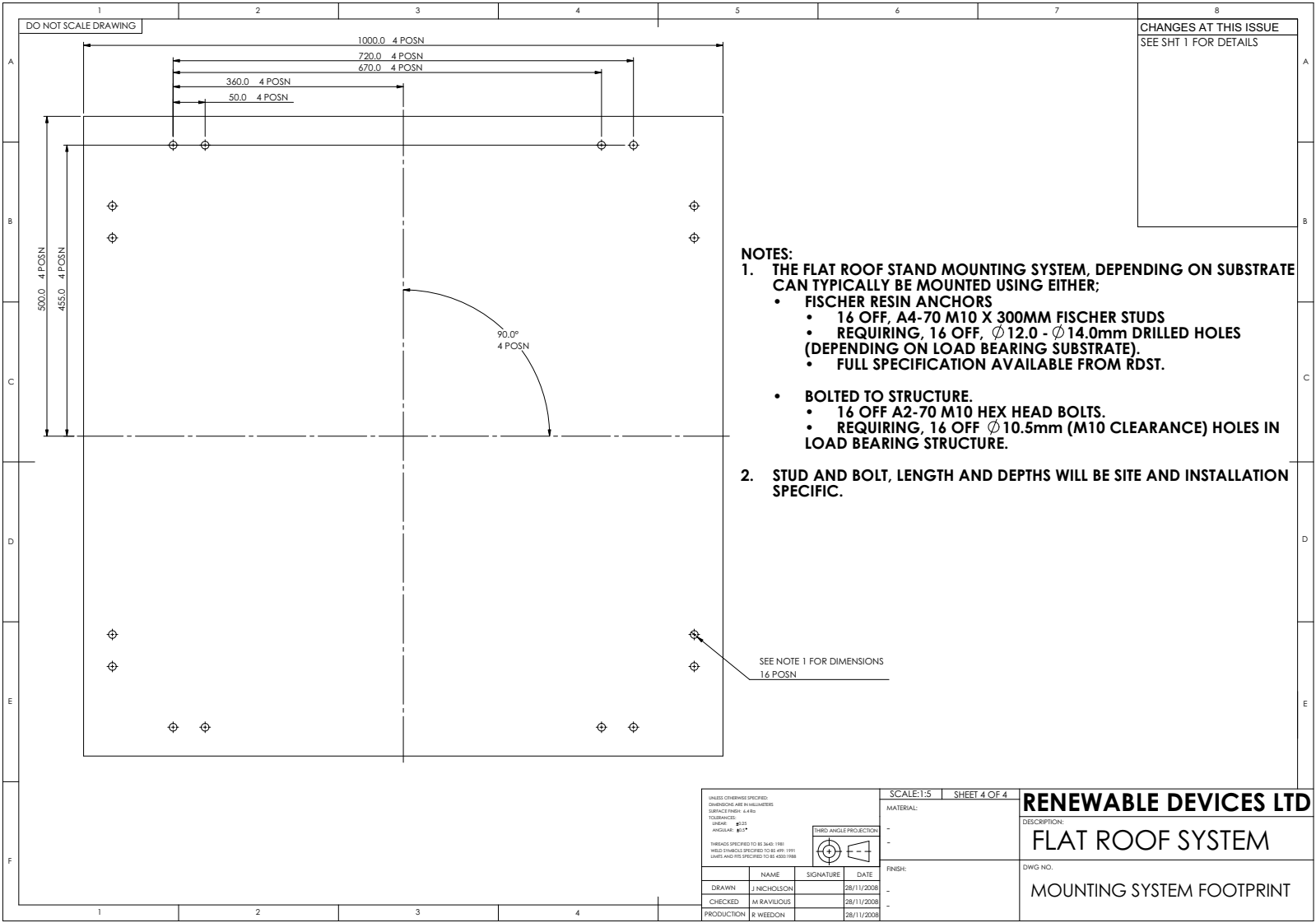
1. NACELLE BODY GENERATOR AND BOOMS ARE FINISHED TO RAL: 9016 (TRAFFIC WHITE)
2. FINS AND ROTOR ARE FINISHED TO MATT BLACK.
3. BUILDING/ WALL SHOWN IN VIEWS IS FOR VISUALISATION ONLY.
4. ALL LOADS ARE INDICATIVE ONLY AND WILL BE SITE AND INSTALLATION SPECIFIC. IT IS RECOMMENDED THAT STRUCTURAL ADVICE IS SOUGHT PRIOR TO INSTALLATION

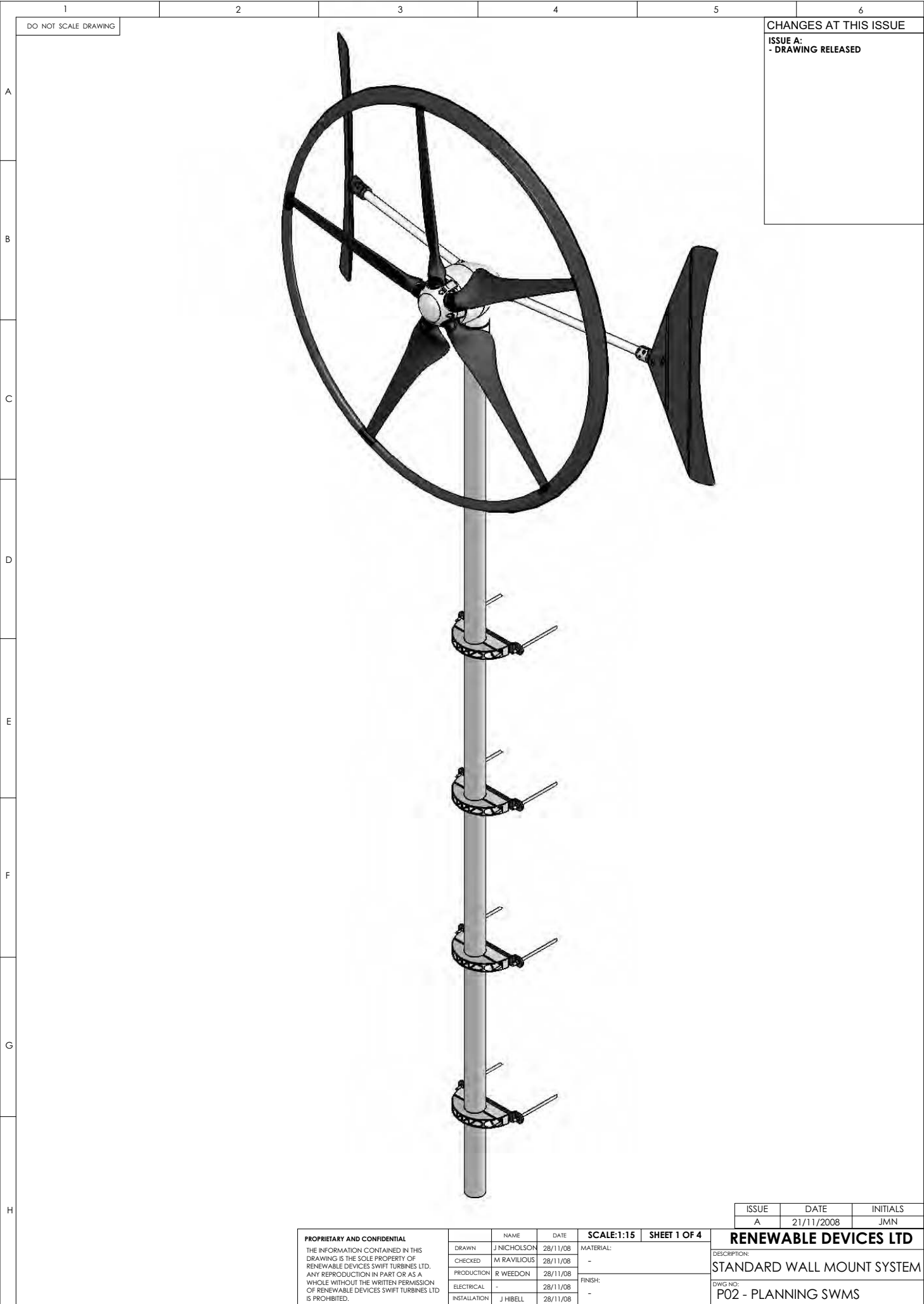
A



ROTOR BLADES
SWEPT AREA = 3.46m sq
SWEPT DIAMETER = 2.1m

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH = 4.00		SCALE: 1:30		SHEET 3 OF 4		RENEWABLE DEVICES LTD	
TOLERANCES LINEAR ± 0.13 ANGULAR $\pm 0.5^\circ$		MATERIAL:		DESCRIPTION:		TURBINE LOADINGS TO BS61400-2	
THROAT SPECIFIED TO BS 3445: 1981 WELD SYMBOLS SPECIFIED TO BS 4991: 1991 GASKETS ARE SPECIFIED TO BS 4340: 1988		THIRD ANGLE PROJECTION 		FINISH:		DWG NO. P02 - PLANNING FRSMS	
		SIGNATURE		DATE			
DRAWN		J NICHOLSON		28/11/2008			
CHECKED		M RAVILUODU		28/11/2008			
PRODUCTION		R WEDDON		28/11/2008			



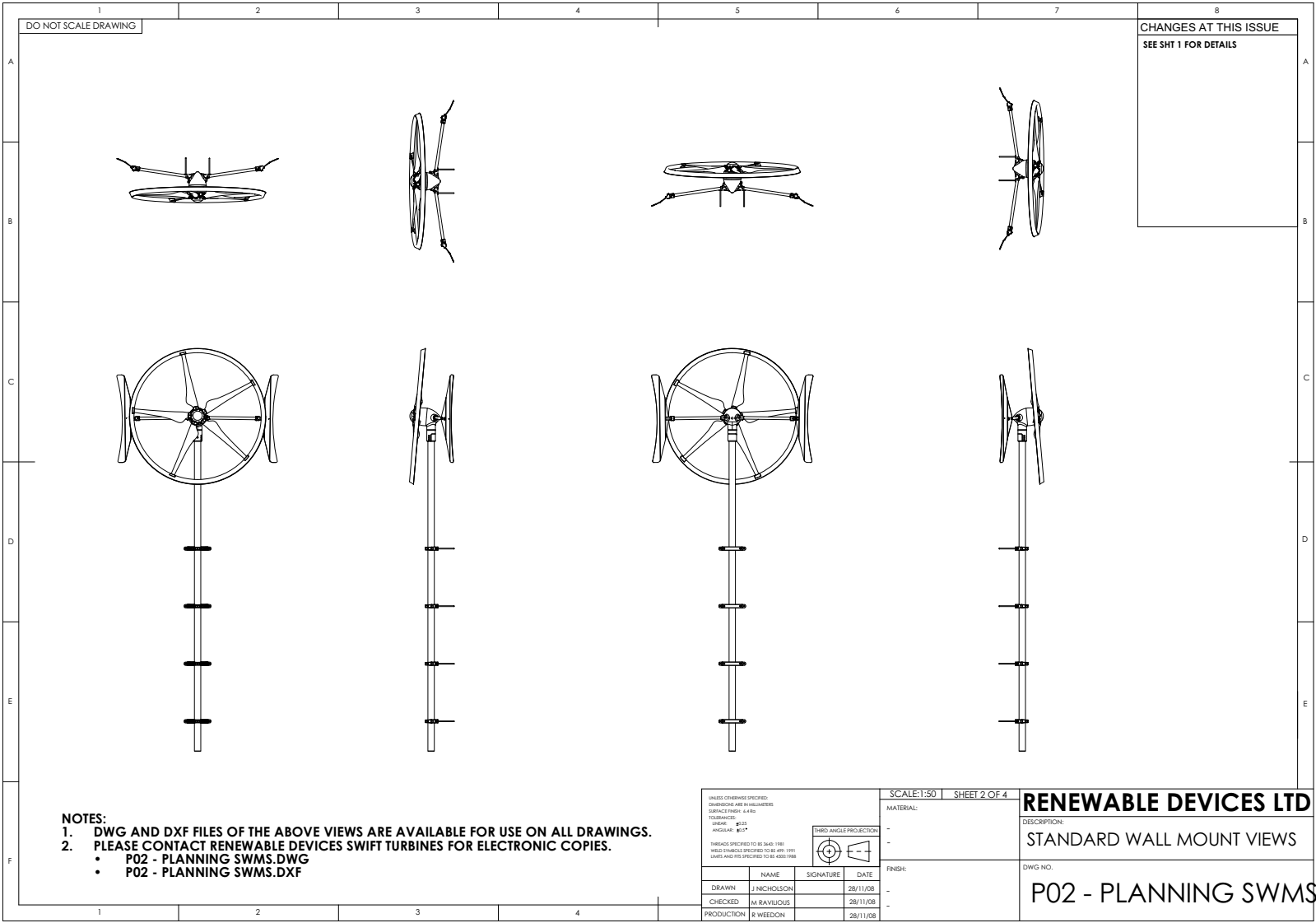


PROPRIETARY AND CONFIDENTIAL
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DRAWING IS THE SOLE PROPERTY OF
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ANY REPRODUCTION IN PART OR AS A
WHOLE WITHOUT THE WRITTEN PERMISSION
OF RENEWABLE DEVICES SWIFT TURBINES LTD
IS PROHIBITED.


	NAME	DATE
DRAWN	J NICHOLSON	28/11/08
CHECKED	M RAVILIOUS	28/11/08
PRODUCTION	R WEEDON	28/11/08
ELECTRICAL	-	28/11/08
INSTALLATION	J HIBELL	28/11/08

SCALE: 1:15	SHEET 1 OF 4
MATERIAL:	-
FINISH:	-

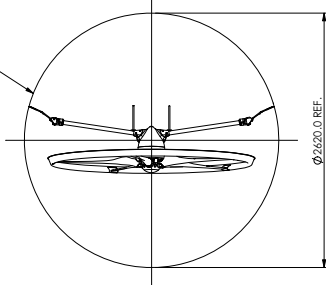
ISSUE	DATE	INITIALS
A	21/11/2008	JMN
RENEWABLE DEVICES LTD		
DESCRIPTION:		
STANDARD WALL MOUNT SYSTEM		
DWG NO:		
P02 - PLANNING SWMS		



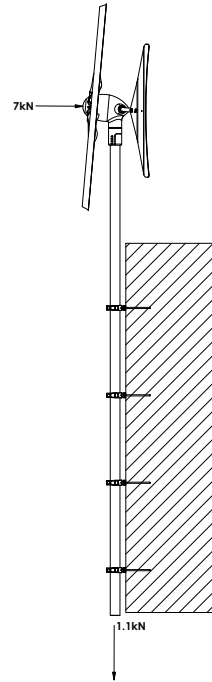
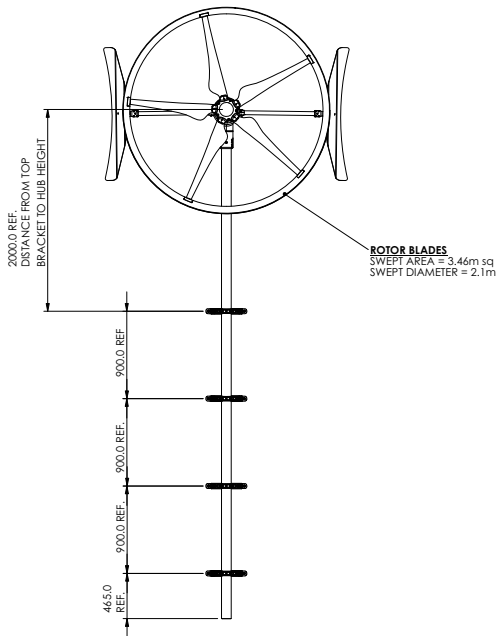
NOTES:
1. DWG AND DXF FILES OF THE ABOVE VIEWS ARE AVAILABLE FOR USE ON ALL DRAWINGS.
2. PLEASE CONTACT RENEWABLE DEVICES SWIFT TURBINES FOR ELECTRONIC COPIES.
• P02 - PLANNING SWMS.DWG
• P02 - PLANNING SWMS.DXF

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: A4/RA TOLERANCES: HOLE: +0.05 SHAFT: +0.05 HOLE: +0.05				SCALE: 1:50 SHEET 2 OF 4		RENEWABLE DEVICES LTD
THIRD ANGLE PROJECTION 				MATERIAL:		
FINISH:				DESCRIPTION:		STANDARD WALL MOUNT VIEWS
DRAWN: J NICHOLSON				DATE: 28/11/08		
CHECKED: M RAVILIOUS				DATE: 28/11/08		P02 - PLANNING SWMS
PRODUCTION: R WEDDON				DATE: 28/11/08		

YAW DIAMETER
THE TURBINE ROTATES 360°
AROUND THE CENTRE OF THE MAST
- TRACKING THE WIND DIRECTION. \

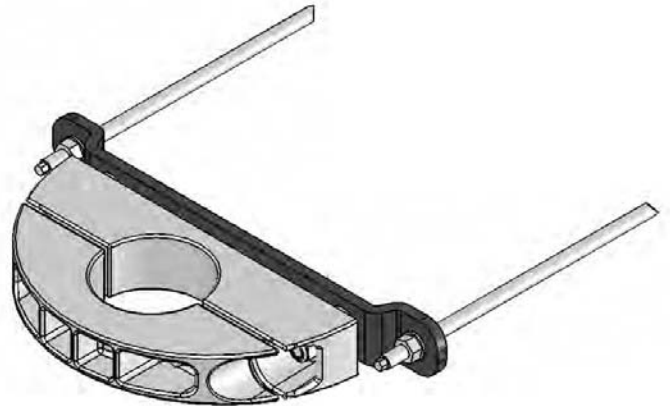


1. NACELLE BODY, GENERATOR AND BOOMS ARE FINISHED TO RAL: 9016 (TRAFFIC WHITE)
2. FINS AND ROTOR ARE FINISHED TO MATT BLACK.
3. BUILDING/ WALL SHOWN IN VIEWS IS FOR VISUALISATION ONLY.
4. ALL LOADS ARE INDICATIVE ONLY AND WILL BE SITE AND INSTALLATION SPECIFIC. IT IS RECOMMENDED THAT STRUCTURAL ADVICE IS SOUGHT PRIOR TO INSTALLATION




UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: A 4.0 TOLERANCES: LINEAR: ±0.75 ANGULAR: ±1°		SCALE: 1:40 SHEET 3 OF 4		RENEWABLE DEVICES LTD	
THIRD ANGLE PROJECTION		MATERIAL:		DESCRIPTION:	
		-		TURBINE LOADINGS TO BS61400-2	
THIRDS SPECIFIED TO BE 3045 - 1981 WELD SYMBOLS SPECIFIED TO BS 4991 GASKETS AND FIT SPECIFIED TO BS 4545:1988		FINISH:		DWG NO.	
	SIGNATURE	DATE	P02 - PLANNING SWMS		
DRAWN	J NICHOLSON	28/11/08			
CHECKED	M RAVULOUS	28/11/08			
PRODUCTION	R WOODON	28/11/08			

CHANGES AT THIS ISSUE
SEE SHT 1 FOR DETAILS



GENERAL ISO VIEW

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: A 4.0 TOLERANCES: UNLESS OTHERWISE SPECIFIED: ANGLES: $\pm 0.5^\circ$		SCALE: 1:3		SHEET 4 OF 4		RENEWABLE DEVICES LTD	
THIRDS SPECIFIED TO BS 3445: 1981 HOLE THREADS SPECIFIED TO BS 4545: 1993 GASKETS AND RIS SPECIFIED TO BS 4330: 1988		MATERIAL:		-		DESCRIPTION: MOUNTING SYSTEM FOOTPRINT	
THIRD ANGLE PROJECTION		-		-		-	
		FINISH:		DWG NO.		P02 - PLANNING SWMS	
SIGNATURE		DATE					
DRAWN J NICHOLSON		28/11/08					
CHECKED M RAVILLIOUS		28/11/08					
PRODUCTION R WEDDON		28/11/08					