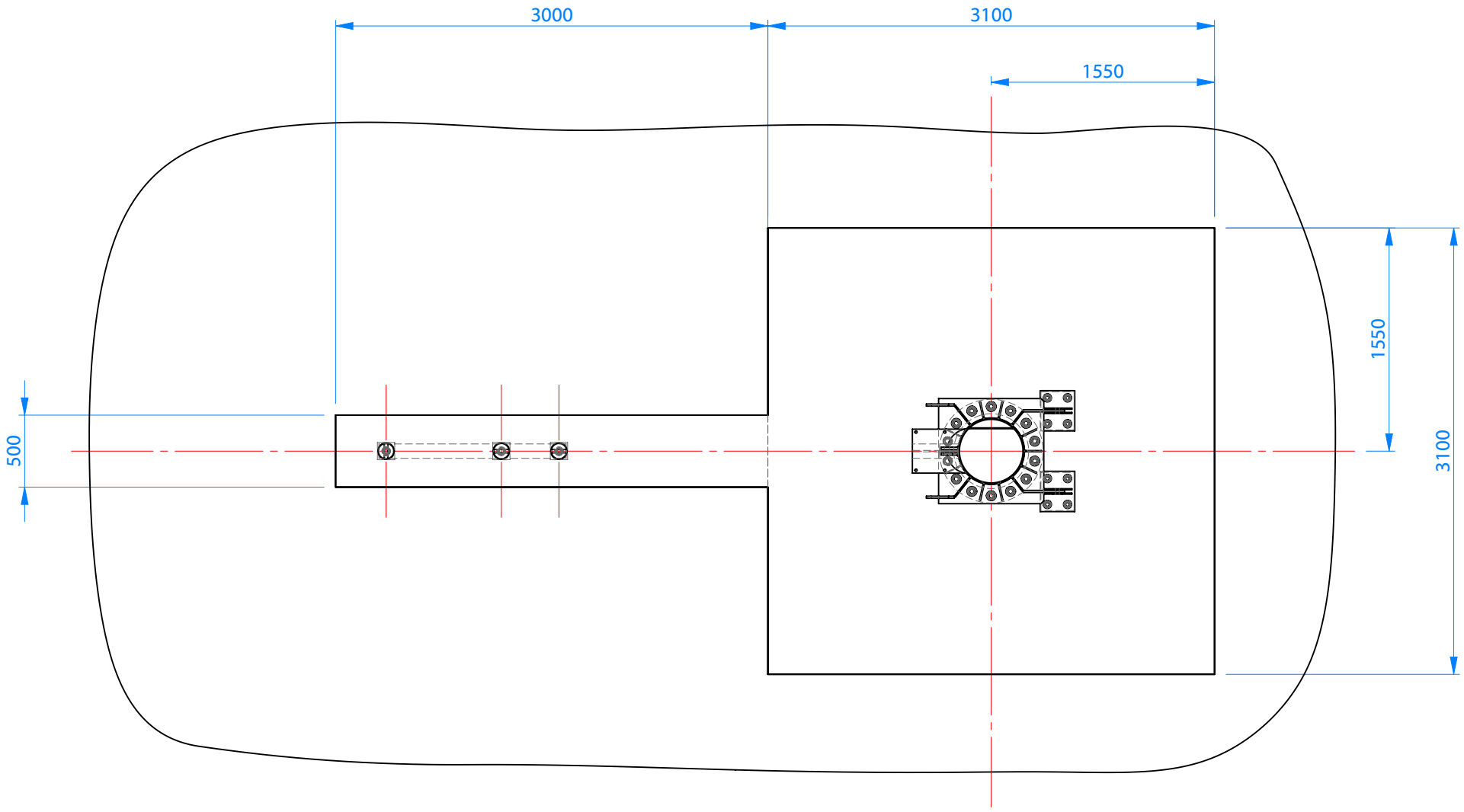
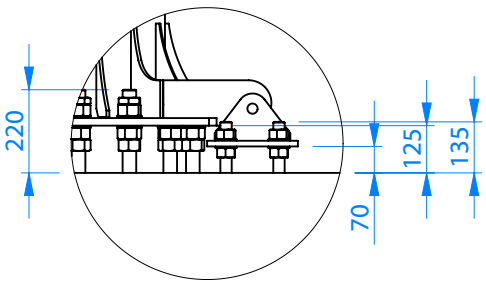
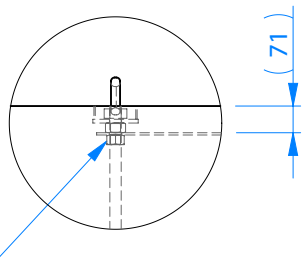
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DETAIL A
SCALE 1 : 20

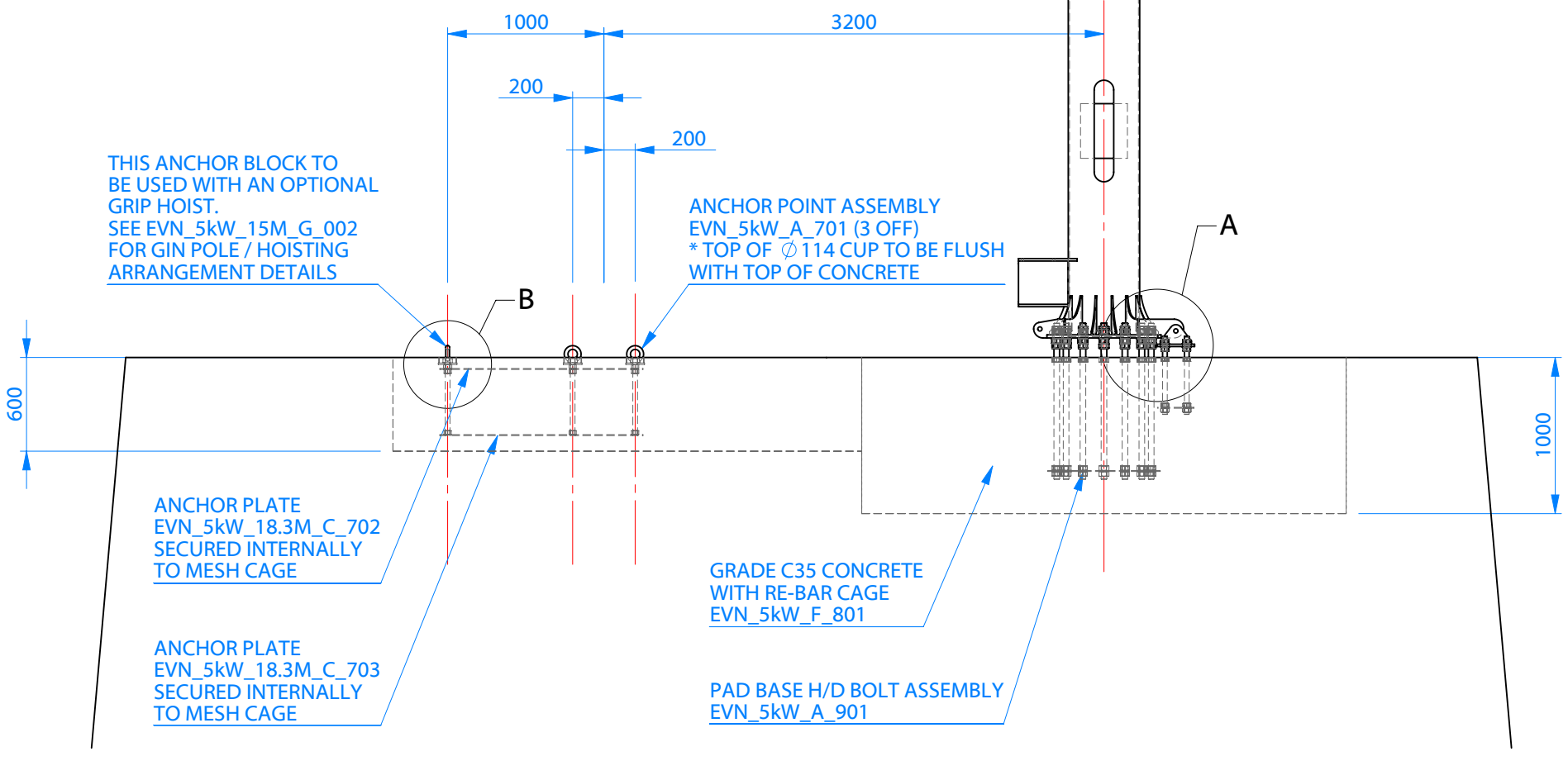


DETAIL B
SCALE 1 : 20



3 OFF M30 NUTS
TO SECURE ANCHOR
TO TEMPLATE

12M / 15M GIN POLE COLUMN ASSEMBLY
TO SUIT EVANCE AT5-1 5kW TURBINE



THIS ANCHOR BLOCK TO
BE USED WITH AN OPTIONAL
GRIP HOIST.
SEE EVN_5kW_15M_G_002
FOR GIN POLE / HOISTING
ARRANGEMENT DETAILS

ANCHOR POINT ASSEMBLY
EVN_5kW_A_701 (3 OFF)
* TOP OF ∅114 CUP TO BE FLUSH
WITH TOP OF CONCRETE

ANCHOR PLATE
EVN_5kW_18.3M_C_702
SECURED INTERNALLY
TO MESH CAGE

ANCHOR PLATE
EVN_5kW_18.3M_C_703
SECURED INTERNALLY
TO MESH CAGE

GRADE C35 CONCRETE
WITH RE-BAR CAGE
EVN_5kW_F_801

PAD BASE H/D BOLT ASSEMBLY
EVN_5kW_A_901

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REV.	DESCRIPTION	DRAWN	APP'D	DATE
A	FOR MANUFACTURE	A.P.H	I.J.B.	23/03/2010

NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETRES WITH LEVELS SHOWN IN METRES.
2. ALL DIMENSIONS NOT TOLERANCED TO BE WITHIN ±0.50mm.
3. STEELWORK TO BE TO BS 7668 OR BS EN 10113-1, GRADE S275 (UNLESS OTHERWISE SPECIFIED), & FABRICATED IN ACCORDANCE WITH BS 5950.
4. ALL BOLTS TO BE GRADE 8.8 SPUN GALVANISED TO BS 3692.
5. ALL STEELWORK TO BE PICKLED AND HOT DIP GALVANISED IN ACCORDANCE WITH BS EN ISO:1461 (UNLESS OTHERWISE SPECIFIED).
6. REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL :

FINISH :

MASS (Kg.) :

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FAX. +44 (0)151 420 5100
www.hutchinsonengineering.co.uk
nqa. ISO 9001 Registered
EVERITE ROAD,
WIDNES,
CHESHIRE,
WA8 8PT

CLIENT : EVANCE

PROJECT : EVANCE 5kW 12m / 15m GIN POLE STRUCTURE

TITLE : PAD FOUNDATION ARRANGEMENT INC. ANCHOR BLOCK FOR 12M & 15M GIN POLE STRUCTURES TO SUIT H/D BOLT ARRANGEMENT

A3

DRAWN :	APP'D :	CHK'D :	SCALE :	DATE :
A.P.H	I.J.B.	I.J.B.	1:40	23/03/2010

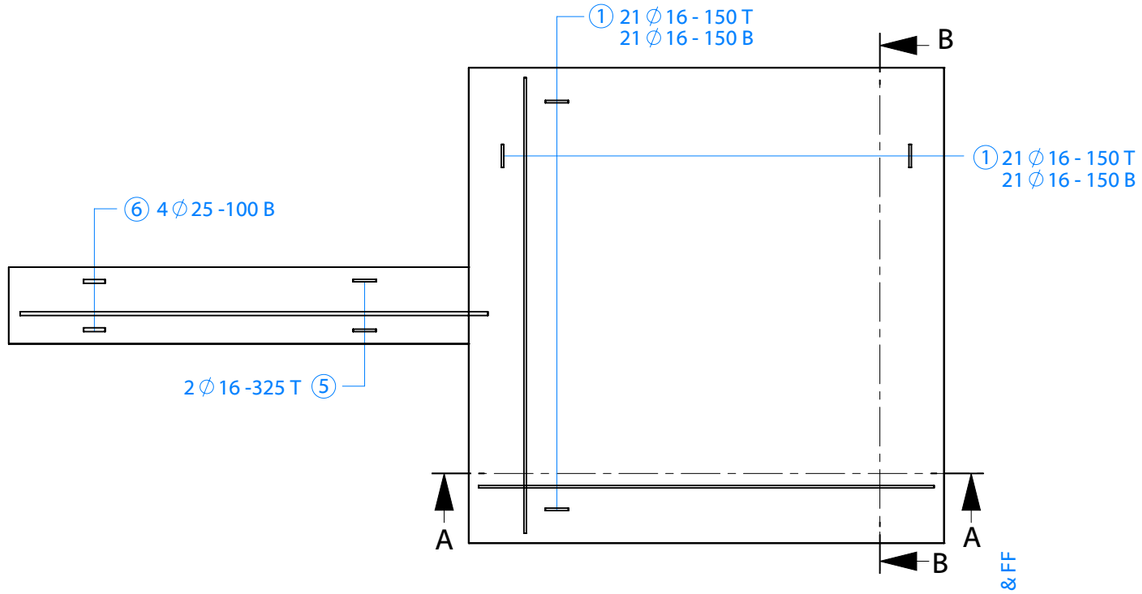
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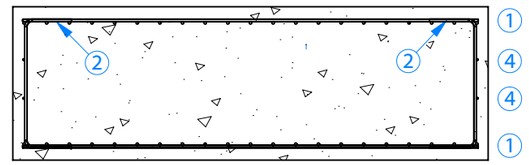
EVN_5kW_F_003

REVISION

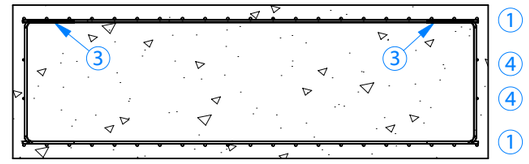
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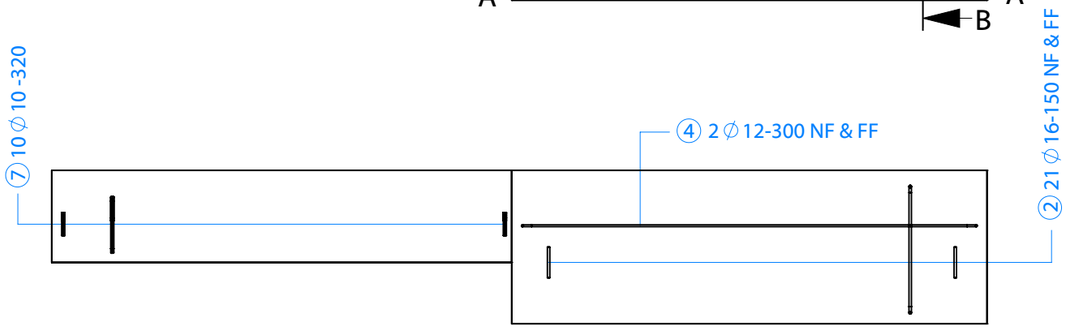


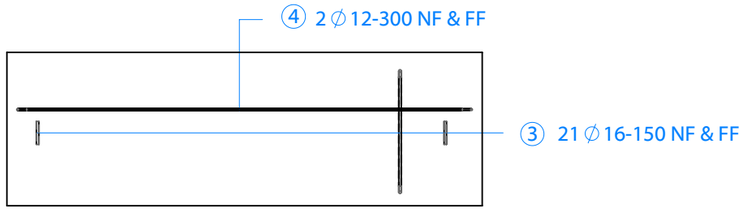


SECTION B-B



SECTION A-A





CONCRETE NOTE

1. ALL STRUCTURAL CONCRETE TO BE GRADE C35 WITH A MAXIMUM FREE WATER/CEMENT RATIO OF 0.5 AND A MINIMUM CEMENT CONTENT OF 300Kg/m3. NOMINAL AGGREGATE SIZE 20mm. ALL IN ACCORDANCE WITH B.S.:8110 PART 1 : 1985.

2. CONCRETE MIX WITH "VERY SEVERE EXPOSURE" CONDITIONS, AS DEFINED IN B.S.:811 PART 1 : 1997 AND CLASS 2 SULPHATE RESISTANCE IN ACCORDANCE WITH B.S.:5329 PART 1 : 1997.

3. MINIMUM COVER TO ANY BAR SHALL BE AS STATED, BUT IN NO CASE LESS THAN 65mm.

4. FOUNDATION SHALL BE FOUNDED ON APPROVED SUB-GRADE, CAPABLE OF WITHSTANDING A MINIMUM BEARING PRESSURE OF
100 kN/Sq.m.

5. DESIGN ENGINEER TO BE CONSULTED PRIOR TO POURING OF CONCRETE, WHERE GROUND IS FOUND TO BE SOFT, RUNNY, LOOSE OR VARIES SIGNIFICANTLY ACROSS FORMATION. ALSO IN AREAS OF SEVERE CONTAMINATION, OR WHERE HIGH SULPHATE LEVELS ARE FOUND TO BE PRESENT.

6. CONTRACTOR SHALL SITE CHECK ALL RELEVANT DIMENSIONS AND LEVELS PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL WORK AND THE CORRECT SETTING OUT ON SITE.

REINFORCEMENT NOTES

1. THIS DRAWING IS TO READ IN CONJUNCTION WITH RELEVANT FOUNDATION DRAWING.

2. BARS LISTED ON BENDED SCHEDULE.

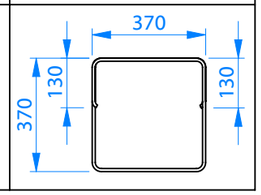
3. RE-INFORCING BARS TO BE GRADE B500A, B500B OR B500C, DEFORMED IN ACCORDANCE WITH B.S.:8666:2005 (Fy = 500N/mm2).

4. MINIMUM COVER TO TOWER BLOCK BARS SHALL BE:-

65mm TO TOP OF FOUNDATION
65mm TO SIDES OF FOUNDATION
65mm TO UNDERSIDE OF FOUNDATION

MINIMUM COVER TO ANCHOR BLOCK BARS SHALL BE:-

165mm TO TOP OF FOUNDATION
65mm TO SIDES OF FOUNDATION
65mm TO UNDERSIDE OF FOUNDATION

MEMBER	BAR MARK	TYPE OF STEEL	BAR DIAMETER	NO. OF MBRS.	NO. OF EACH	LENGTH EACH BAR (mm)	SHAPE CODE	A (mm)	B (mm)	
PAD	1	B500A,B OR C (RIBBED)	H16	1	84	2970	00	2970	-	
PAD	2	B500A,B OR C. (RIBBED)	H16	1	42	1400	21	306	840	
PAD	3	B500A,B OR C. (RIBBED)	H16	1	42	1400	21	320	810	
PAD	4	B500A,B OR C. (RIBBED)	H12	1	8	3340	21	222	2970	
PAD	5	B500A,B OR C. (RIBBED)	H16	1	2	3050	00	3050	-	
PAD	6	B500A,B OR C. (RIBBED)	H25	1	4	3050	00	3050	-	
PAD	7	B500A,B OR C. (RIBBED)	H10	1	10	2000	63			

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A	FOR MANUFACTURE	A.P.H	I.J.B.	23/03/2010

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6. REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL :

FINISH :

MASS (Kg.) :

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FAX. +44 (0)151 420 5100
www.hutchinsonengineering.co.uk
nqa. ISO 9001 Registered
EVERITE ROAD, WIDNES, CHESHIRE, WA8 8PT

CLIENT : EVANCE
PROJECT : EVANCE 5kW 12m & 15m GIN POLE STRUCTURE
TITLE : REINFORCING BAR SCHEDULE TO SUIT 3.1m x 3.1m x 1m DEEP PAD FOUNDATION WITH INTEGRAL 3.0m x 0.5m x 0.6m DEEP ANCHOR PAD (TO SUIT H/D BOLT OPTION)

A3

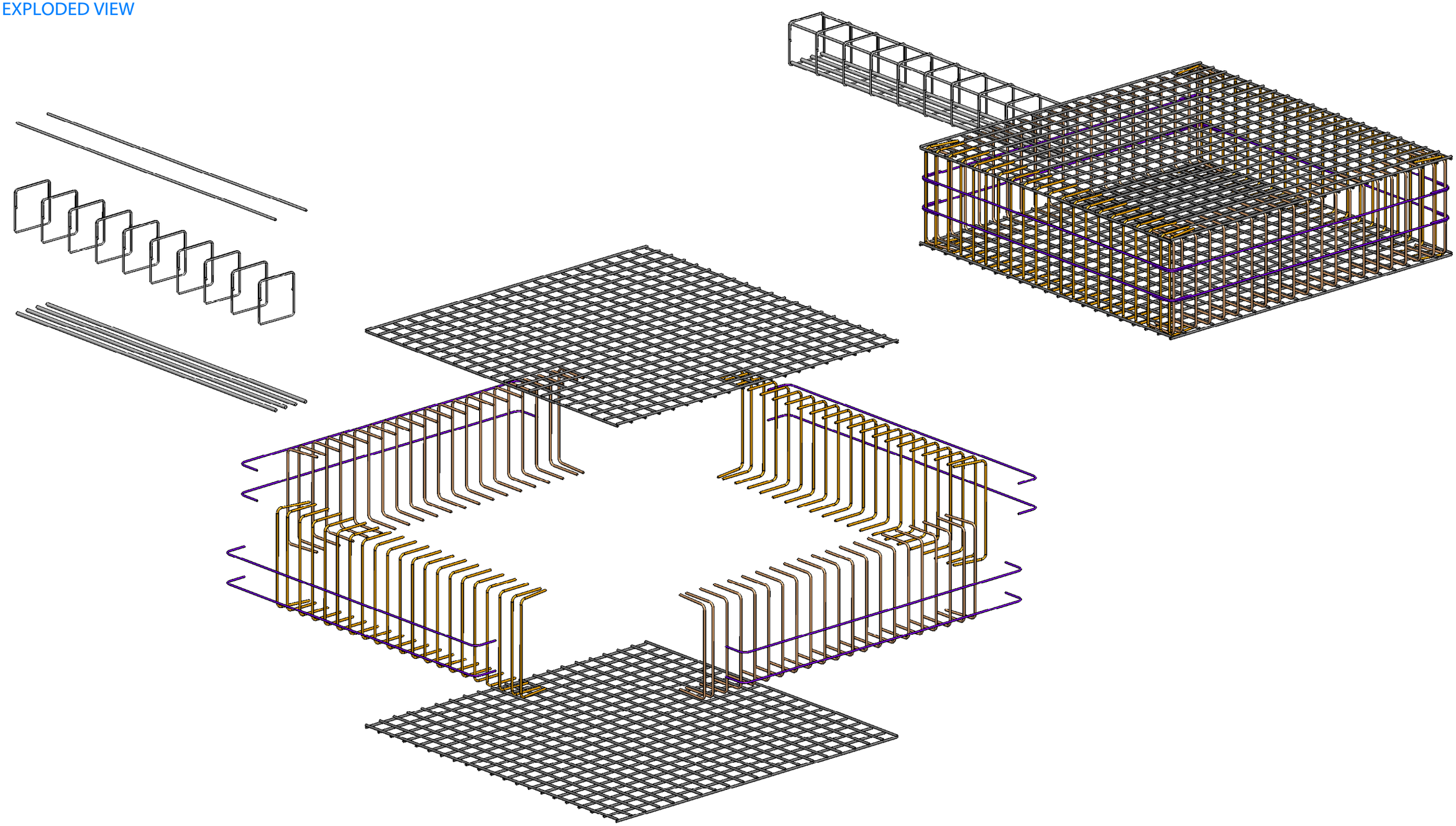
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A.P.H	I.J.B.	I.J.B	1:40	23/03/2010

DWG No. : **EVN_5kW_F_801 (SHEET 1 OF 2)**

REVISION **A**

SITE REF. :

PAD FOUNDATION RE-BAR CAGE
EXPLODED VIEW



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MATERIAL : SEE DETAILS

FINISH :

MASS (Kg.) :

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nqa. ISO 9001 Registered
EVERITE ROAD, WIDNES, CHESHIRE, WA8 8PT

CLIENT : EVANCE

PROJECT : EVANCE 5kW 12m & 15m GIN POLE STRUCTURE

TITLE : REINFORCING BAR SCHEDULE TO SUIT 3.1m x 3.1m x 1m DEEP PAD FOUNDATION WITH INTEGRAL 3.0m x 0.5m x 0.6m DEEP ANCHOR PAD (TO SUIT H/D BOLT OPTION)

A3

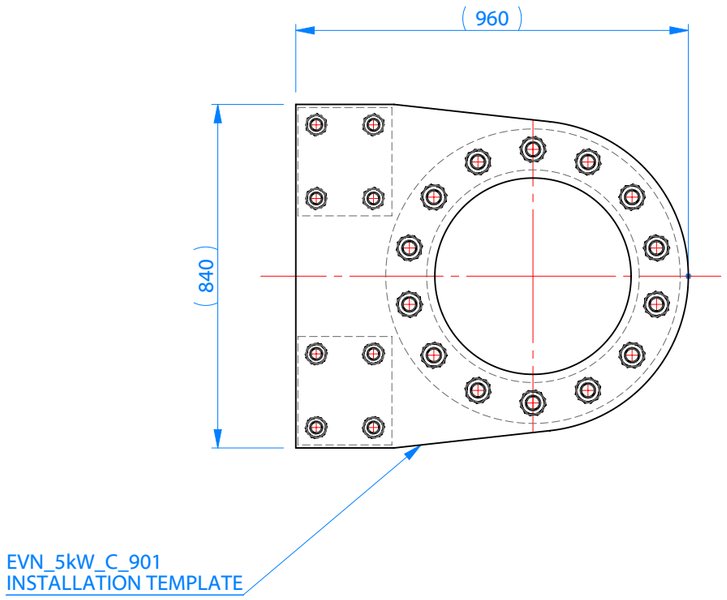
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A.P.H	I.J.B.	I.J.B	1:30	23/03/2010

DWG No. : EVN_5Kw_F_801 (SHEET 2 OF 2)

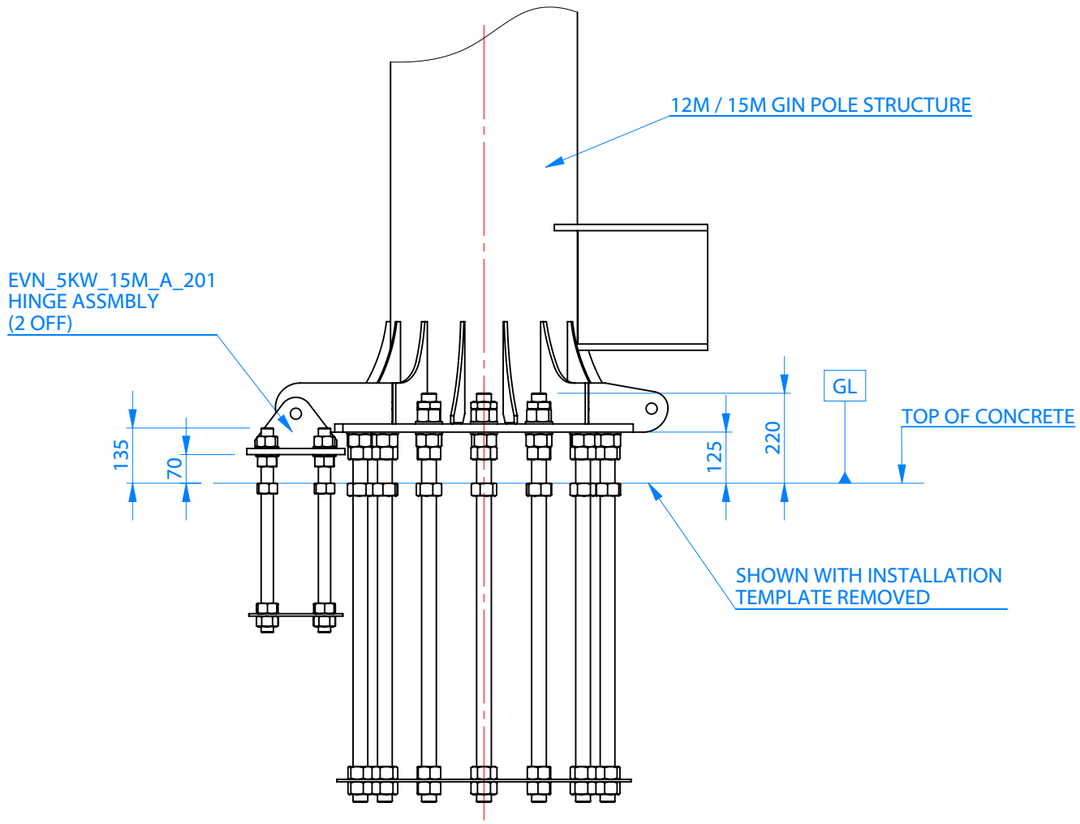
REVISION A

SITE REF. :

BASE ASSEMBLY SHOWN WITH INSTALLATION PLATE



BASE ASSEMBLY SHOWN WITH HINGE ASSEMBLY AND POLE (TO BE FITTED ONCE BASE INSTALLATION PLATE HAS BEEN REMOVED AND BASE HAS SET IN CONCRETE)



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A	FOR MANUFACTURE	A.P.H	I.J.B	23/03/2010

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MATERIAL : SEE DETAILS

FINISH :

MASS (Kg.) :

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nqa. ISO 9001 Registered
EVERITE ROAD, WIDNES, CHESHIRE, WA8 8PT

CLIENT : EVANCE
PROJECT : 12M & 15M 5KW GIN POLE PAD FOUNDATION
TITLE : PAD BASE H/D BOLT ASSEMBLY

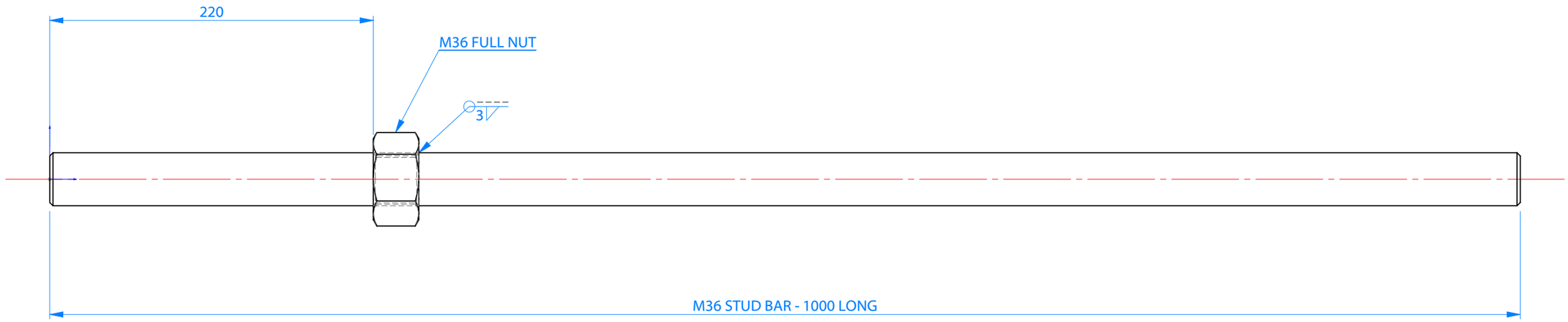
A3

DRAWN :	APP'D :	CHK'D :	SCALE :	DATE :
A.P.H	I.J.B.	I.J.B.	1:15	23/03/2010

DWG No. : **EVN_5KW_A_901**

REVISION **A**

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REV.	DESCRIPTION	DRAWN	APP'D	DATE
A	FOR MANUFACTURE	A.P.H	I.J.B	24/03/2010

NOTES :

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6. REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL : SEE DETAILS

FINISH : GALVANISED

MASS (Kg.) : 1.07

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CLIENT : PROVEN
PROJECT : EVANCE 12m & 15m 5KW GIN POLE H/D BASE
TITLE : FOUNDATION STUD ASSEMBLY

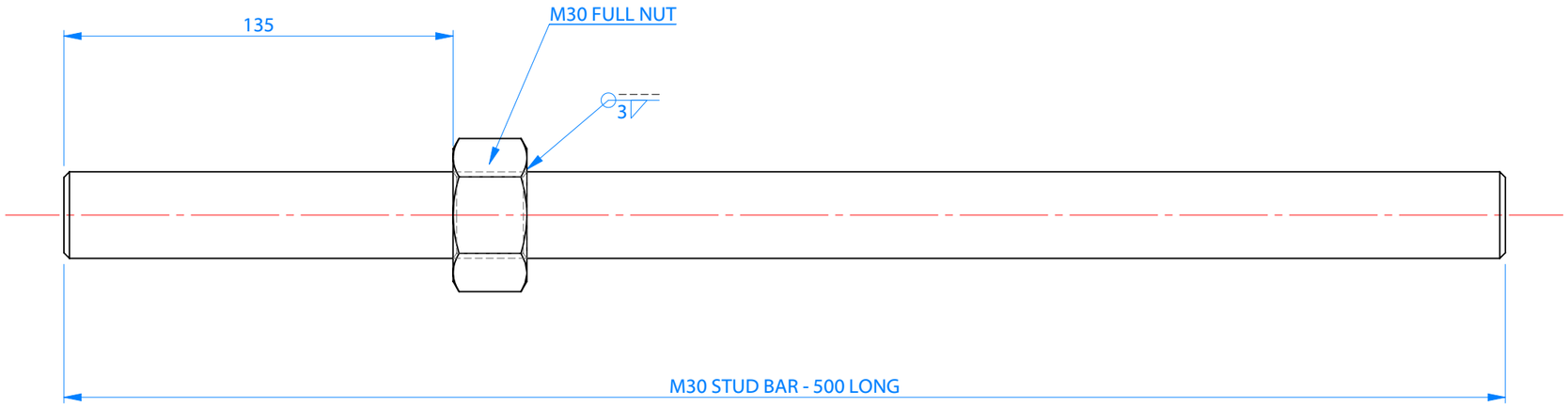
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DRAWN :	APP'D :	CHK'D :	SCALE :	DATE :
A.P.H	I.J.B.	I.J.B.	1:3	24/03/2010

DWG No. : EVN_5KW_A_902

REVISION A

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MATERIAL :

SEE DETAILS

FINISH :

GALVANISED

MASS (Kg.) :

3.01

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EVERITE ROAD,
WIDNES,
CHESHIRE,
WA8 8PT

CLIENT : EVANCE

PROJECT : EVANCE 12m & 15m 5KW GIN POLE H/D BASE

TITLE : HINGE STUD ASSEMBLY

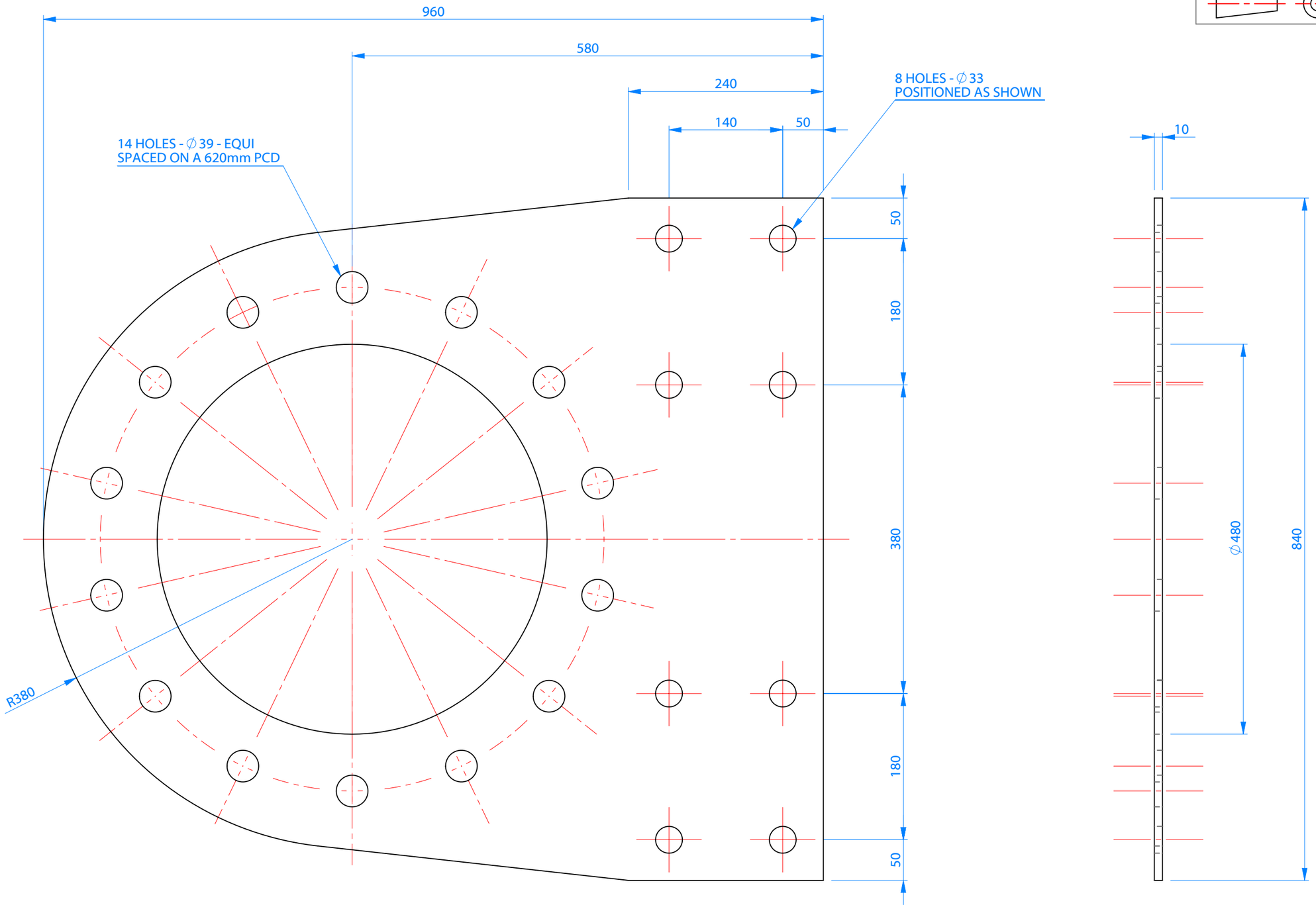
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DRAWN :	APP'D :	CHK'D :	SCALE :	DATE :
A.P.H	I.J.B.	I.J.B.	1:2	24/03/2010

DWG No. : EVN_5KW_A_903

REVISION A

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6. REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL :

S275 STRUCTURAL STEEL

FINISH :

NATURAL

MASS (Kg.) :

38.75

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FAX. +44 (0)151 420 5100
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EVERITE ROAD,
WIDNES,
CHESHIRE,
WA8 8PT

CLIENT : EVANCE

PROJECT : EVANCE 5kW 12m & 15m GIN POLE H/D BASE

TITLE : INSTALLATION TEMPLATE

A3

DRAWN :	APP'D :	CHK'D :	SCALE :	DATE :
A.P.H	I.J.B.	I.J.B.	1:5	23/03/2010

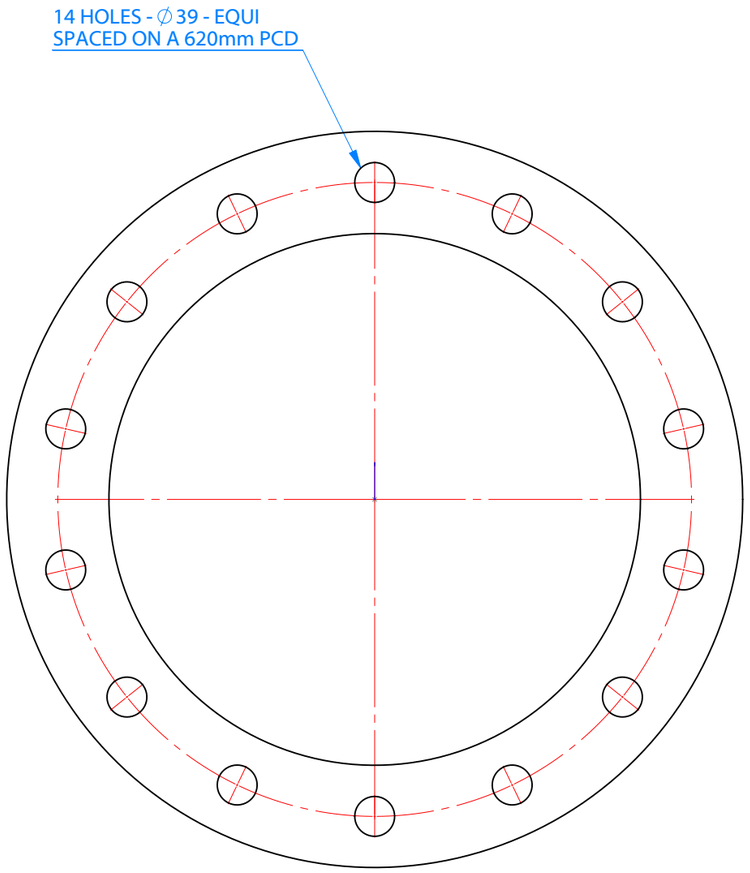
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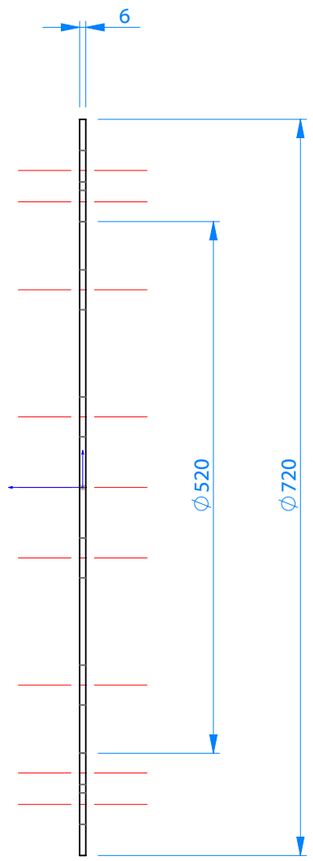
EVN_5kW_C_901

REVISION

A

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MATERIAL : S275 STRUCTURAL STEEL

FINISH : NATURAL

MASS (Kg.) : 8.33

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EVERITE ROAD, WIDNES, CHESHIRE, WA8 8PT

CLIENT : EVANCE
PROJECT : 12M & 15M 5KW GIN POLE H/D BOLT ASSEMBLY
TITLE : LOWER FOUNDATION RING

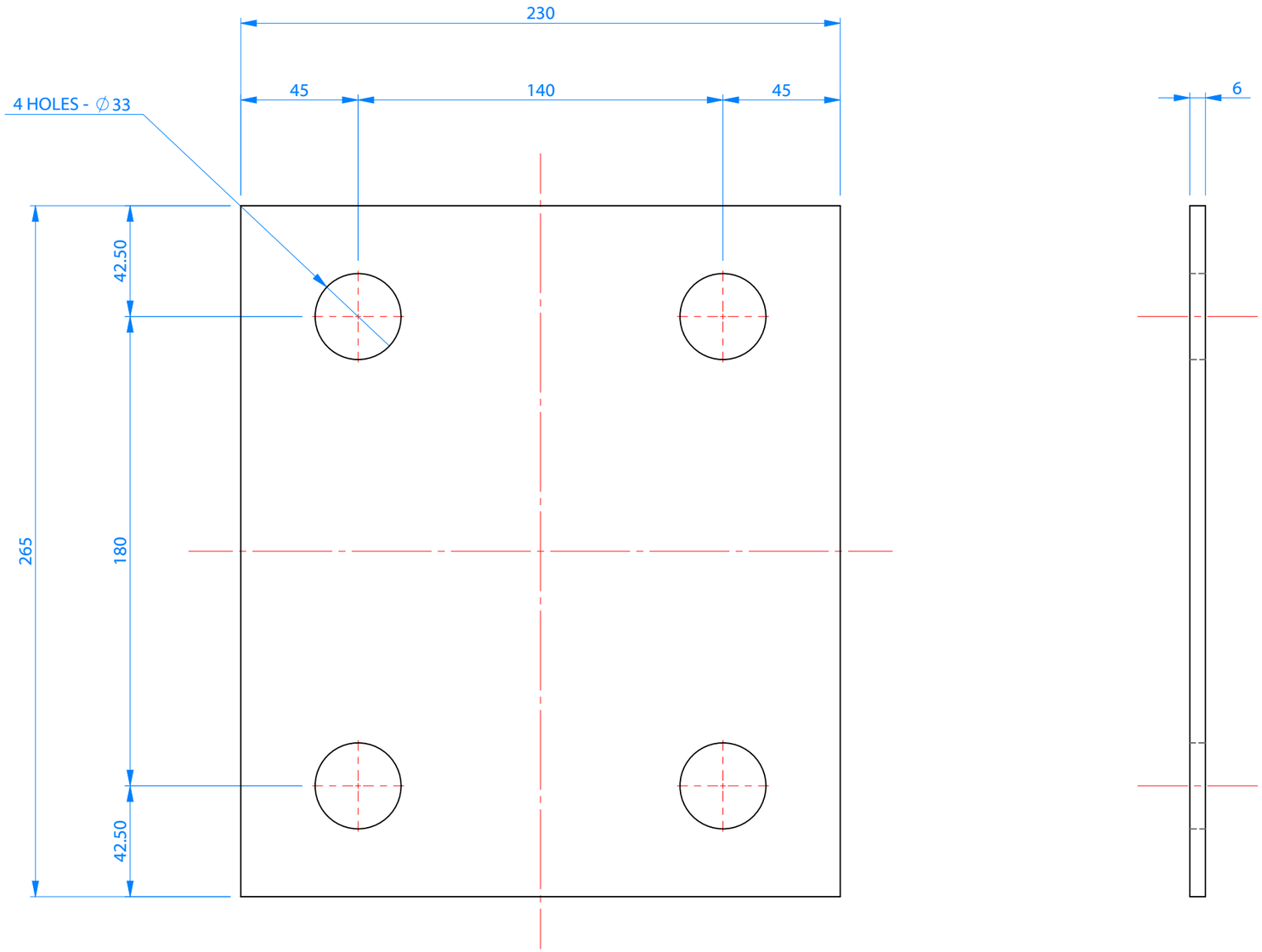
A3

DRAWN :	APP'D :	CHK'D :	SCALE :	DATE :
A.P.H	I.J.B.	I.J.B.	1:6	23/03/2010

DWG No. : **EVN_5kW_C_902**

REVISION **A**

SITE REF. :



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REV.	DESCRIPTION	DRAWN	APP'D	DATE
A	FOR MANUFACTURE	A.P.H	I.J.B	23/03/2010

NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETRES WITH LEVELS SHOWN IN METRES.
2. ALL DIMENSIONS NOT TOLERANCED TO BE WITHIN ±0.50mm.
3. STEELWORK TO BE TO BS 7668 OR BS EN 10113-1, GRADE S275 (UNLESS OTHERWISE SPECIFIED), & FABRICATED IN ACCORDANCE WITH BS 5950.
4. ALL BOLTS TO BE GRADE 8.8 SPUN GALVANISED TO BS 3692.
5. ALL STEELWORK TO BE PICKLED AND HOT DIP GALVANISED IN ACCORDANCE WITH BS EN ISO:1461 (UNLESS OTHERWISE SPECIFIED).
6. REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL :

S275 STRUCTURAL STEEL

FINISH :

NATURAL

MASS (Kg.) :

2.69

hutchinson engineering

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FAX. +44 (0)151 420 5100
www.hutchinsonengineering.co.uk

nqa. ISO 9001 Registered

EVERITE ROAD,
WIDNES,
CHESHIRE,
WA8 8PT

CLIENT : EVANCE

PROJECT : 12M & 15M 5KW GIN POLE H/D BOLT ASSEMBLY

TITLE : HINGE BOTTOM PLATE

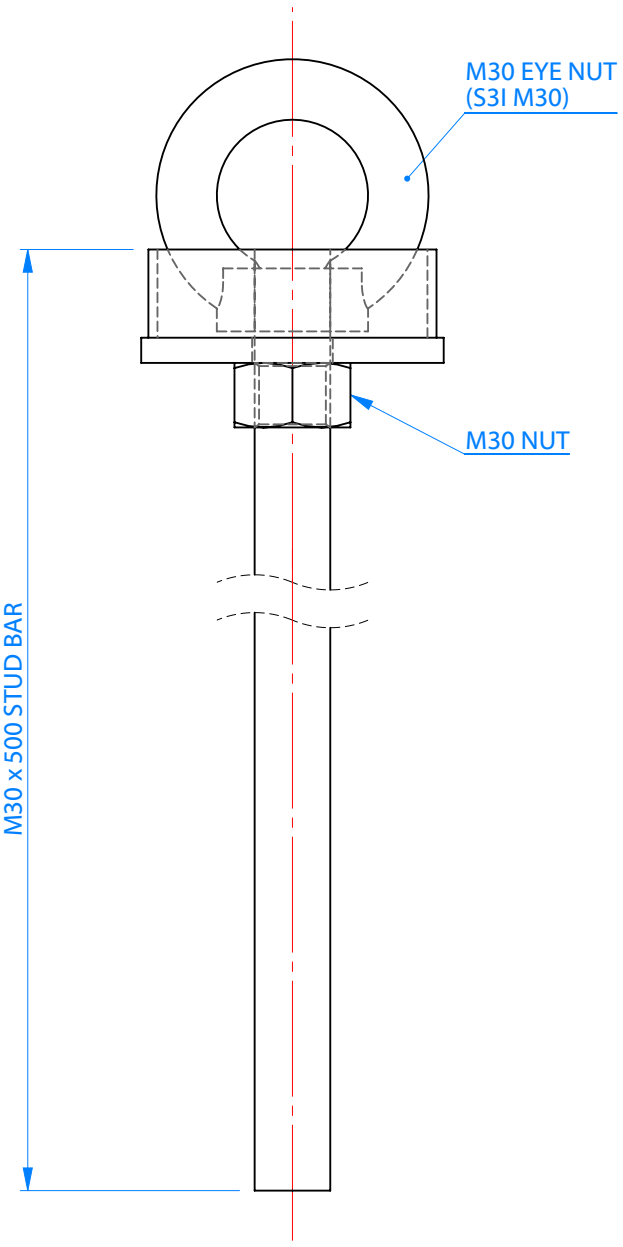
A3

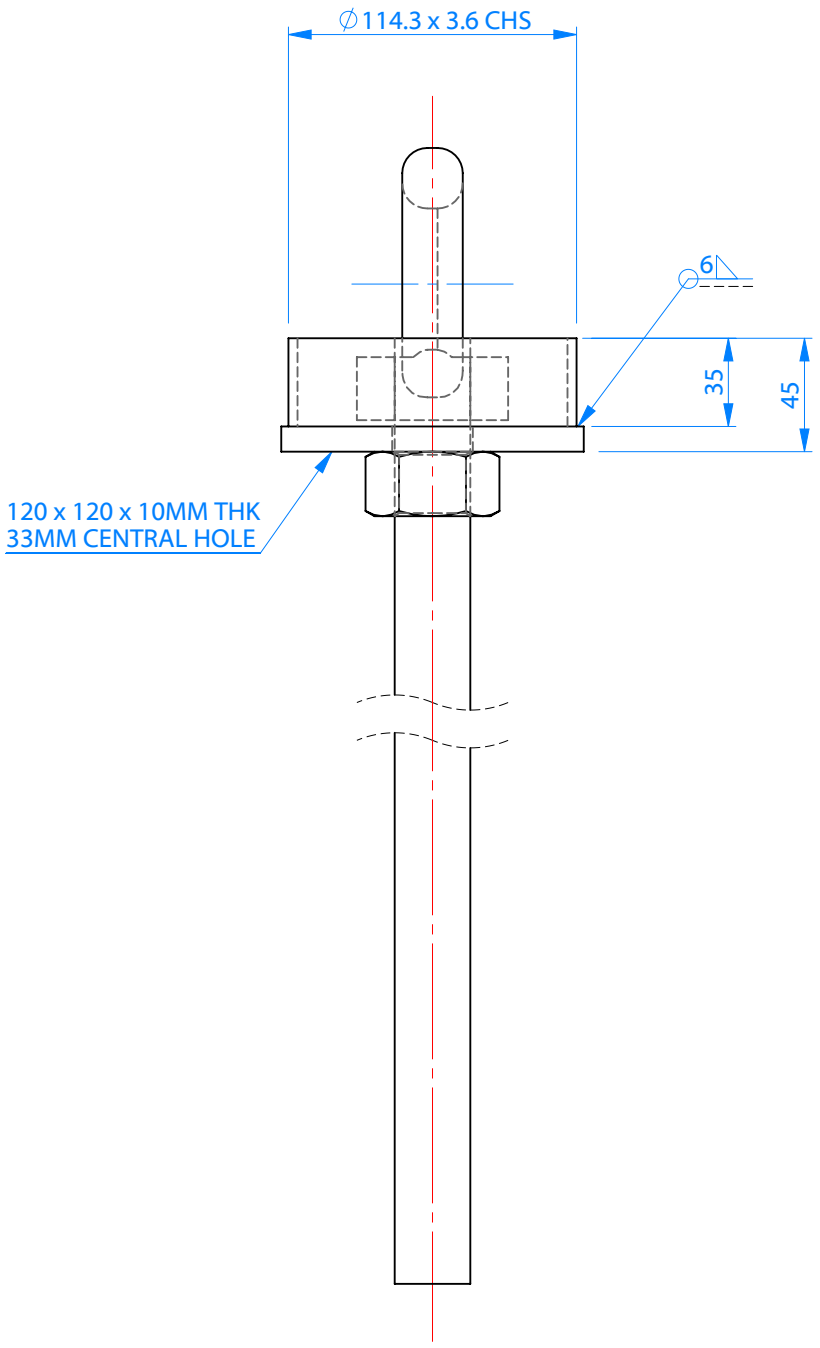
DRAWN :	APP'D :	CHK'D :	SCALE :	DATE :
A.PH	I.J.B.	I.J.B.	1:2	23/03/2010

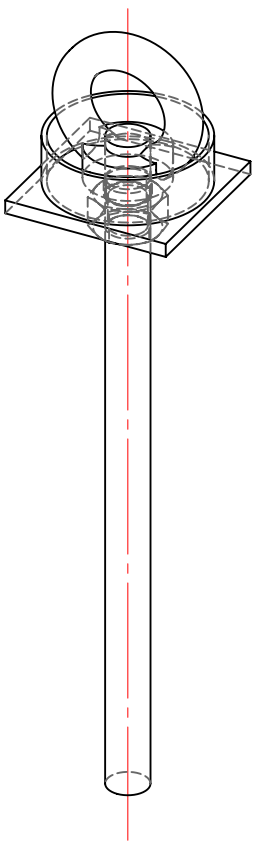
DWG No. : EVN_5kW_C_903

REVISION A

SITE REF. :







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REV.	DESCRIPTION	DRAWN	APP'D	DATE
A	FOR MANUFACTURE	A.P.H	I.J.B	21/01/2010

NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETRES WITH LEVELS SHOWN IN METRES.
2. ALL DIMENSIONS NOT TOLERANCED TO BE WITHIN ±0.50mm.
3. STEELWORK TO BE TO BS 7668 OR BS EN 10113-1, GRADE S275 (UNLESS OTHERWISE SPECIFIED), & FABRICATED IN ACCORDANCE WITH BS 5950.
4. ALL BOLTS TO BE GRADE 8.8 SPUN GALVANISED TO BS 3692.
5. ALL STEELWORK TO BE PICKLED AND HOT DIP GALVANISED IN ACCORDANCE WITH BS EN ISO:1461 (UNLESS OTHERWISE SPECIFIED).
6. REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL : SEE DETAILS

FINISH : GALVANISED

MASS (Kg.) : 5.40

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EVERITE ROAD,
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CHESHIRE,
WA8 8PT

CLIENT : EVANCE

PROJECT : EVANCE 5kW 12M / 15M WIND TURBINE STRUCTURE

TITLE : FLUSH ANCHOR POINT ASSEMBLY FOR 12M & 15M GIN POLE STRUCTURES

A3

DRAWN :	APP'D :	CHK'D :	SCALE :	DATE :
A.P.H	I.J.B.	I.J.B.	1:3	21/01/2010

DWG No. : EVN_5kW_A_701

REVISION A