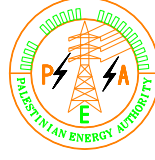


## Rehabilitation of Electricity Power Distribution Network in three areas in the Gaza strip (GS)



من الشعب الياباني  
From the People of Japan



50  
YEARS

Empowered lives. Resilient nations.

**Bill of Quantity : Package1 - Lot 1 - Supply of steel Components**

## Bill of Quantity : Package1 - Lot 1

Supply the listed below items ( Steel Components)

Item	Description	Unit	Quantity	Unit Rate (US\$)	Total Cost (US\$)
	<p>The Contract entails supply of the listed below items (22 kV Distribution Line &amp; 0.4 kV Low Voltage Steel Components</p> <p>All Materials must Adhere to technical specifications and drawings as per the international standards subject to engineer's approval.</p> <p>All items will be approved through submittal of material approval from substantiated by brochures , factory specifications and sample according to approved material supply schedule.</p>				
<b>A1.</b>	<b>Steel Poles :</b>				
A1.1	Hot Galvanized Lattice Steel Pole 70/80 , 12m long, (According to the Steel General Specifications and Attached Drawing No. K2102)	No.	27		
A1.2	Hot Galvanized Lattice Steel Pole 80/90 , 12m long, (According to the Steel General Specifications and Attached Drawing No. K2103)	No.	3		
A1.3	Hot Galvanized Lattice Steel Pole 90/110 , 12m long, (According to the Steel General Specifications and Attached Drawing No. K2141)	No.	3		
A1.4	Hot Galvanized Channel Steel Pole U14 , 12m long, (According to the Steel General Specifications and Attached Drawing No. K253)	No.	15		
A1.5	Hot Galvanized L.V Channel Steel Pole U14 , 9m long , (According to the Steel General Specifications and Attached Drawing No. K254_14)	No.	48		
	<b>Total of Steel Poles.....Carried to the main summary</b>				
<b>A2.</b>	<b>Wooden Poles :</b>				
A2.1	Impregnated Wooden Pole 8.5 m Long Top Diameter 150-180 mm (According to the Wooden Poles General Specifications and Attached Drawing No. WP_85)	No.	50		
	<b>Total of Wooden Poles.....Carried to the main summary</b>				
<b>A3.</b>	<b>Steel Bases</b>				
A3.1	Hot Galvanized Steel Base for Lattice Steel Pole 70/80 , 2.25m long , (According to the Steel General Specifications and Attached Drawing No. K110)	No.	27		
A3.2	Hot Galvanized Steel Base for Lattice Steel Pole 80/90 , 2.25m long , (According to the Steel General Specifications and Attached Drawing No. K109)	No.	3		
A3.3	Hot Galvanized Steel Base for Lattice Steel Pole 90/110 , 2.25m long , (According to the Steel General Specifications and Attached Drawing No. K2152)	No.	3		
A3.4	Hot Galvanized Steel Base for Channel Steel Pole U14 , 2.15m long Complete , (According to the Steel General Specifications and Attached Drawing No. K258_6)	No.	15		
	<b>Total of Steel Bases.....Carried to the main summary</b>				
<b>A4.</b>	<b>Steel Arms</b>				
A4.1	Hot Galvanized Lattice Steel Pole Tension Central Arm K2 , (According to the Steel General Specifications and Attached Drawing No. K2)	No.	1		
A4.2	Hot Galvanized Lattice Steel Pole Tension Central Arm K9 Single (According to the Steel General Specifications and Attached Drawing No. K9_S)	No.	1		
A4.3	Hot Galvanized Lattice Steel Pole Tension Side Arm K61 , (According to the Steel General Specifications and Attached Drawing No. K61)	No.	1		

**Bill of Quantity : Package1 - Lot 1**

**Supply the listed below items ( Steel Components)**

Item	Description	Unit	Quantity	Unit Rate (US\$)	Total Cost (US\$)
A4.4	Hot Galvanized Lattice Steel Pole Tension Side Arm K63 , (According to the Steel General Specifications and Attached Drawing No. K63)	No.	3		
A4.5	Hot Galvanized Lattice Steel Pole Tension Side Arm K64 , (According to the Steel General Specifications and Attached Drawing No. K64)	No.	1		
A4.6	Hot Galvanized Lattice Steel Pole Tension Side Arm K12801 , (According to the Steel General Specifications and Attached Drawing No. K12801)	No.	3		
A4.7	Hot Galvanized Lattice Steel Pole Suspension Side Arm K7972 , (According to the Steel General Specifications and Attached Drawing No. K7972)	No.	2		
A4.8	Hot Galvanized Lattice Steel Pole Suspension Side Arm K10601C (According to the Steel General Specifications and Attached Drawing No. K10601C)	No.	4		
A4.9	Hot Galvanized Lattice Pole Suspension Side Arm , K11404C , (According to the Steel General Specifications and Attached Drawing No. K11404C)	No.	1		
A4.10	Hot Galvanized Channel Steel Pole Side Arm K10045C, (According to the Steel General Specifications and Attached Drawing No. K10045)	No.	5		
A4.11	Hot Galvanized Channel Steel Pole Suspension Side Arm K10155C, (According to the Steel General Specifications and Attached Drawing No. K10155)	No.	4		
A4.12	Hot Galvanized Channel Steel Pole Suspension Side Arm K10354C , (According to the Steel General Specifications and Attached Drawing No. K10354)	No.	4		
A4.13	Hot Galvanized Channel Steel Pole Suspension Side Arm K14521C , (According to the Steel General Specifications and Attached Drawing No. K14521)	No.	2		
A4.14	Hot Galvanized M.V Switch Side Arm K1555, (According to the Steel General Specifications and Attached Drawing No. K1555)	No.	7		
A4.15	Hot Galvanized M.V Switch Side Arm K1558, (According to the Steel General Specifications and Attached Drawing No. K1558)	No.	28		
A4.16	Hot Dip Galvanized M.V Switch Central Vertical Arm , K1562, (According to the Steel General Specifications and Attached Drawing No. K1562)	No.	2		
A4.17	Hot Dip Galvanized Auxiliary Steel Arm for Earth Line, K18, (According to the Steel General Specifications and Attached Drawing No. K18)	No.	11		
A4.18	Hot Galvanized Auxiliary Steel Arm K12171/1 , (According to the Steel General Specifications and Attached Drawing No. K12171/1)	No.	1		
A4.19	Hot Galvanized Auxiliary Steel Arm K12171/2 , (According to the Steel General Specifications and Attached Drawing No. K12171/2)	No.	1		
A4.20	Hot Galvanized Auxiliary Steel Arm K160/1 , (According to the Steel General Specifications and Attached Drawing No. K160/1)	No.	3		
A4.21	Hot Galvanized Auxiliary Steel Arm K160/3A, (According to the Steel General Specifications and Attached Drawing No. K160/3A)	No.	6		
A4.22	Hot Galvanized Auxiliary Steel Arm K160/3B, (According to the Steel General Specifications and Attached Drawing No. K160/3B)	No.	71		
A4.23	Hot Galvanized Auxiliary Steel Arm K166/1 , (According to the Steel General Specifications and Attached Drawing No. K166)	No.	14		
A4.24	Hot Galvanized Auxiliary Steel Arm K167, (According to the Steel General Specifications and Attached Drawing No. K167)	No.	2		
A4.25	Hot Galvanized Auxiliary Steel Arm K1743 , (According to the Steel General Specifications and Attached Drawing No. K1743)	No.	16		
A4.26	Hot Dip Galvanized Transformer Arm , K183 , (According to the Steel General Specifications and Attached Drawing No. K183)	No.	30		
A4.27	Hot Dip Galvanized Transformer Clamp , K188, (According to the Steel General Specifications and Attached Drawing No. K188_d1)	No.	120		
A4.28	Hot Dip Galvanized Auxiliary Transformer Steel Angles , K183/1 , (According to the Steel General Specifications and Attached Drawing No. K183/1)	Set	6		

## Bill of Quantity : Package1 - Lot 1

Supply the listed below items ( Steel Components)

Item	Description	Unit	Quantity	Unit Rate (US\$)	Total Cost (US\$)
A4.29	Hot Galvanized L.V Steel Pole Arm , K202 Single , (According to the Steel General Specifications and Attached Drawing No. K202_S)	No.	12		
A4.30	Hot Galvanized L.V Steel Pole Arm 100 cm Long (Single) , (According to the Steel General Specifications and Attached Drawing No. K271-100)	No.	2		
A4.31	Hot Dip Galvanized Protection Arm , K81 , (According to the Steel General Specifications and Attached Drawing No. K81)	No.	126		
A4.32	Hot Dip Galvanized Protection Arm , K82_A with 3m Mustache (According to the Steel General Specifications and Attached Drawing No. K82_A)	No.	12		
A4.33	Hot Galvanized Anti-Climbing Steel Arm K113/8 for L.S.P , (According to the Steel General Specifications and Attached Drawing No. K113/8)	Set	33		
A4.34	Hot Galvanized Anti-Climbing Steel Arm K78/2 for C.S.P , (According to the Steel General Specifications and Attached Drawing No. K78/2)	Set	15		
Total of Steel Arms.....Carried to the main summary					
A5.	<b>Steel Bolts</b>				
A5.1	Hot Dip Galvanized V - Shaped Angle Clamp 3/8" , 32*56 mm2 Including Hot dip Galvanized 3/8" Two Nuts, Two Round Washer and Two Spring Washer , (According to Steel General Specifications and Drawing No. X1)	No.	30		
A5.2	Hot Dip Galvanized V - Shaped Angle Clamp 5/8" , 157*122 mm2 Including Hot dip Galvanized 5/8" two Nuts, two Round Washers, two Square Washers and two Spring Washers , (According to Steel General Specifications and Drawing No. N2)	No.	10		
A5.3	Hot Dip Galvanized U6 Clamp , 1/2" Including Hot dip Galvanized 1/2" Two Nuts, Two Round Washer and Two Spring Washer , (According to Steel General Specifications and Drawing No. B19)	No	10		
A5.4	Hot Dip Galvanized U8 Clamp , 1/2" Including Hot dip Galvanized 1/2" Two Nuts, Two Round Washer and Two Spring Washer , (According to Steel General Specifications and Drawing No. B20)	No	30		
A5.5	Hot Galvanized Steel Bolt 7/8" , 4.5 cm Long, including Hot dip Galvanized 7/8" one Nut, one Round Washer and one Spring Washer , (According to Steel General Specifications)	Pcs	650		
A5.6	Hot Galvanized Steel Bolt 7/8" , 5 cm Long, including Hot dip Galvanized 7/8" one Nut, one Round Washer and one Spring Washer , (According to Steel General Specifications)	Pcs	260		
A5.7	Hot Galvanized Steel Bolt 7/8" , 6 cm Long, including Hot dip Galvanized 7/8" one Nut, one Round Washer and one Spring Washer , (According to Steel General Specifications)	Pcs	30		
A5.8	Hot Galvanized Steel Bolt 3/4" , 4 cm Long, including Hot dip Galvanized 3/4" one Nut, one Round Washer and one Spring Washer , (According to Steel General Specifications)	Pcs	600		
A5.9	Hot Galvanized Steel Bolt 3/4" , 5 cm Long, including Hot dip Galvanized 3/4" one Nut, one Round Washer and one Spring Washer , (According to Steel General Specifications)	Pcs	70		
A5.10	Hot Galvanized Steel Bolt 5/8" , 4 cm Long, including Hot dip Galvanized 5/8" one Nut, one Round Washer, one Square Washer and one Spring Washer , (According to Steel General Specifications)	Pcs	2,100		
A5.11	Hot Galvanized Steel Bolt 1/2" , 3.5 cm Long, including Hot dip Galvanized 1/2" one Nut, one Round Washer and one Spring Washer , (According to Steel General Specifications)	Pcs	1,700		

**Bill of Quantity : Package1 - Lot 1**

**Supply the listed below items ( Steel Components)**

Item	Description	Unit	Quantity	Unit Rate (US\$)	Total Cost (US\$)
A5.12	Hot Galvanized Steel Bolt 1/2" , 5 cm Long, including Hot dip Galvanized 1/2" one Nut, one Round Washer and one Spring Washer , (According to Steel General Specifications)	Pcs	30		
A5.13	Hot Galvanized Steel Bolt 1/2" , 18 cm Long, including Hot dip Galvanized 1/2" one Nut, one Square Washer and one Spring Washer , (According to Steel General Specifications)	Pcs	35		
A5.14	Hot Galvanized V-Shaped Steel Bolt 1/2" x 14 cm Long, Including Hot dip Galvanized 1/2" one Nut, one Round Washer and one Spring Washer , (According to Steel General Specifications and Drawing No. A2)	No.	550		
A5.15	Hot Galvanized V-Shaped Steel Bolt 1/2" x 16 cm Long, Including Hot dip Galvanized 1/2" one Nut, one Round Washer and one Spring Washer , (According to Steel General Specifications and Drawing No. A3)	No.	70		
A5.16	Hot Galvanized V-Shaped Steel Bolt 1/2" x 18 cm Long, Including Hot dip Galvanized 1/2" one Nut, one Round Washer and one Spring Washer , (According to Steel General Specifications and Drawing No. A4)	No.	20		
<b>Total of Steel Bolts.....Carried to the main summary</b>					
<b>A6.</b>	<b>Steel Accessories</b>				
A6.1	Hot Dip Galvanized Steel Pole Thread Hook M16 Twisted ( 5/8") Including 5/8" Bolts , Nuts and Washers , (According to Steel General Specifications and Technical Guarantees No.TH_S16C)	No	250		
A6.2	Hot Dip Galvanized Steel Twisted Hook for Wooden Pole , (According to Steel General Specifications and Technical Guarantees No.TH_W20)	No	50		
A6.3	Hot Galvanized Steel Cable Guard to Protect the Cable 200x20x10 cm , (According to Steel General Specifications and Technical Guarantees No. SCG_200)	No	95		
A6.4	Hot Dip Galvanized Plate to Fixing M.V Cable Clamp on the Steel Arm , (According to Steel General Specifications and Drawing No.PMV_250)	No	140		
<b>Total of Steel Accessories.....Carried to the main summary</b>					

**Bill of Quantity : Package1 - Lot 1**

Supply the listed below items ( Steel Components)

Item	Description	Unit	Quantity	Unit Rate (US\$)	Total Cost (US\$)
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A1	Total of Steel Poles				
A2	Total of Wooden Poles				
A3	Total of Steel Bases				
A4	Total of Steel Arms				
A5	Total of Steel Bolts				
A6	Total of Steel Accessories				
	Transportation of goods to Gaza area ( GEDCO Warehouses)				
	Total Total EXCLUDING VAT (US\$)				

NET TOTAL SUM EXCLUDING VAT (in words) :

SIGNED AND SEALED :

AUTHORIZED :

TITLE :

SIGNATURE :

DATE :

	Transportation items:(Optional)	QTY	Total in US\$
1.1	Transportation of goods to Toulkarem area	job	
1.2	Transportation of goods from Toulkarem to Gaza.	job	

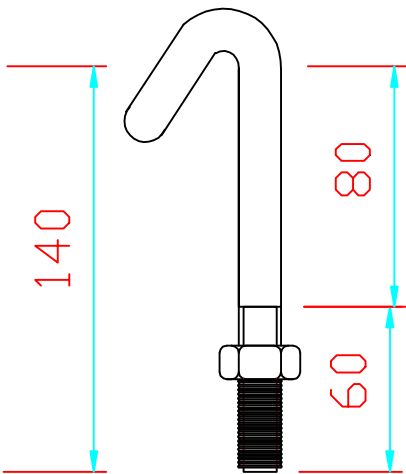
A-2

# -UNC-V-Bolt-

Using : For fixing Outdoor L.V switch box  
and Anti-climbing arm K113/8 on lattice steel poles

Description

1-UNC-V-Bolt 1/2"\*140mm. with nut,  
Spring wesher and Ring washer.



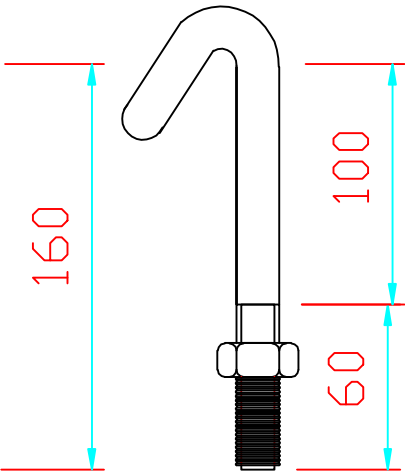
A-3

# -UNC-V-Bolt-

Using : For fixing Outdoor L.V switch box  
and Anti-climbing arm K113/8 on lattice steel poles

Description

1-UNC-V-Bolt 1/2"\*160mm. with nut,  
Spring wesher and Ring washer.





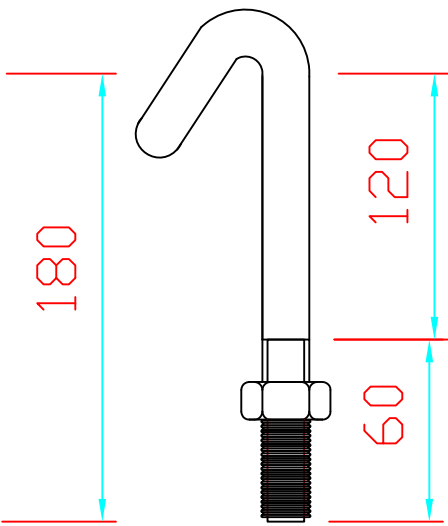
A4

# -UNC-V-Bolt-

Using : For fixing Outdoor L.V switch box and Anti-climbing arm K1 1 3/8 on lattice steel poles

## Description

1-UNC-V-Bolt 1/2"\*180mm. with nut, Spring washer and Ring washer.



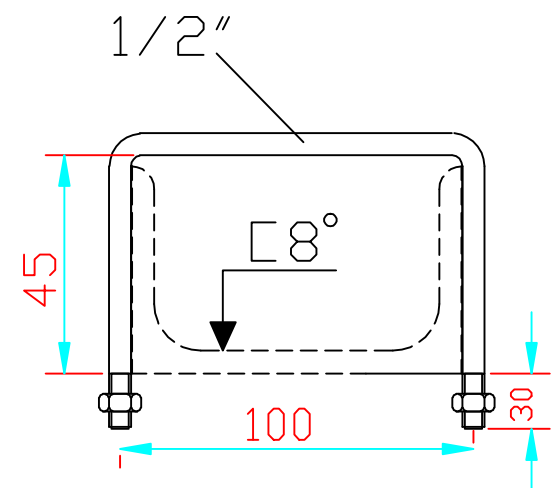
B19

## Channel Clamps

Using : For fixing earth Arm  
K82 on Lattices Steel Pole

Drawing No B19/1

\*U8 Clamp 1/2" مربوط  
With nuts and washers.  
Hot Dip galvanized Steel.



B20

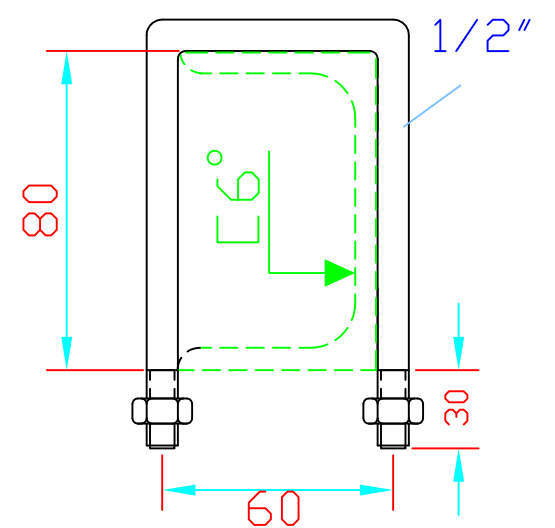
# Channel Clamps

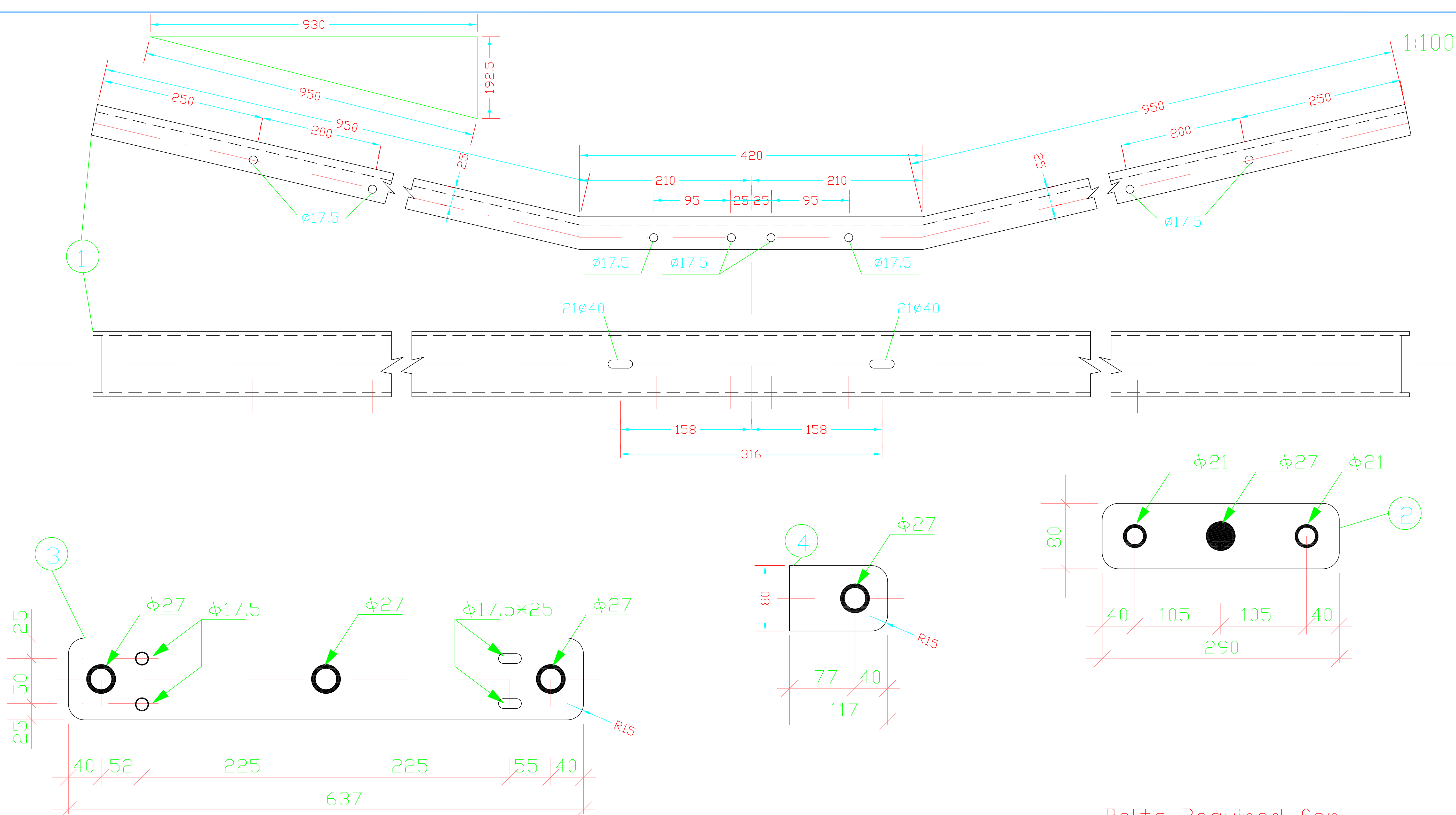
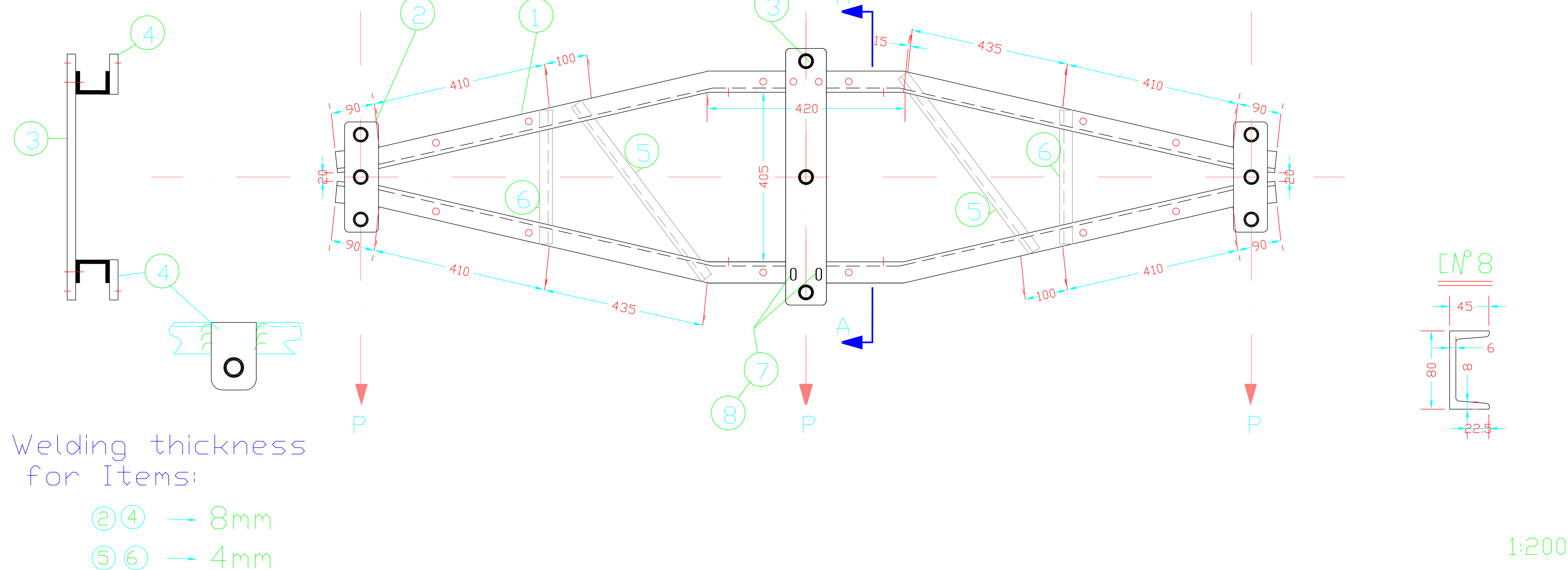
Using : For fixing earth Arm  
K82 on Lattics Steel Pole

\* U6 Clamp 1/2" مربوط

With nuts and washers.

Hot Dip galvanized Steel.





Bolts Required for  
installation on the pole

4 UNC Bolt 3/4"\*40mm  
4 square washer 3/4"

Note: All component must be Steel RST37.2 hot dip galvanized

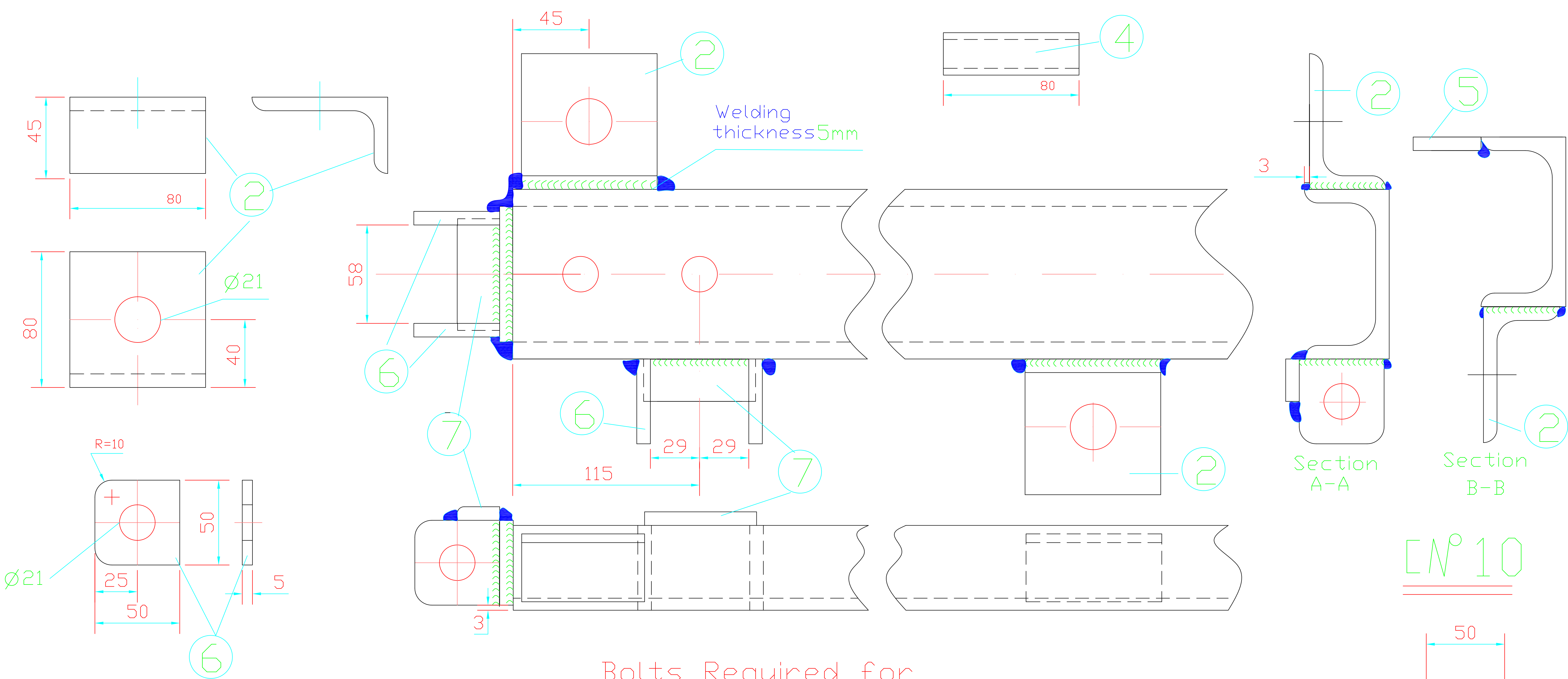
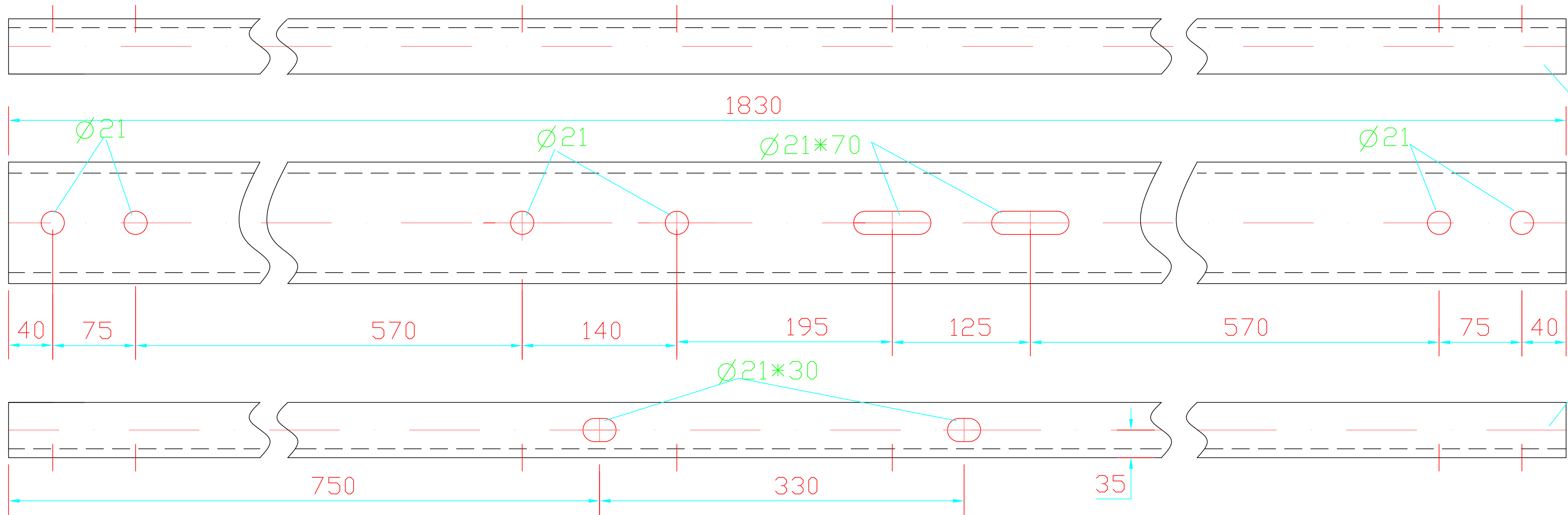
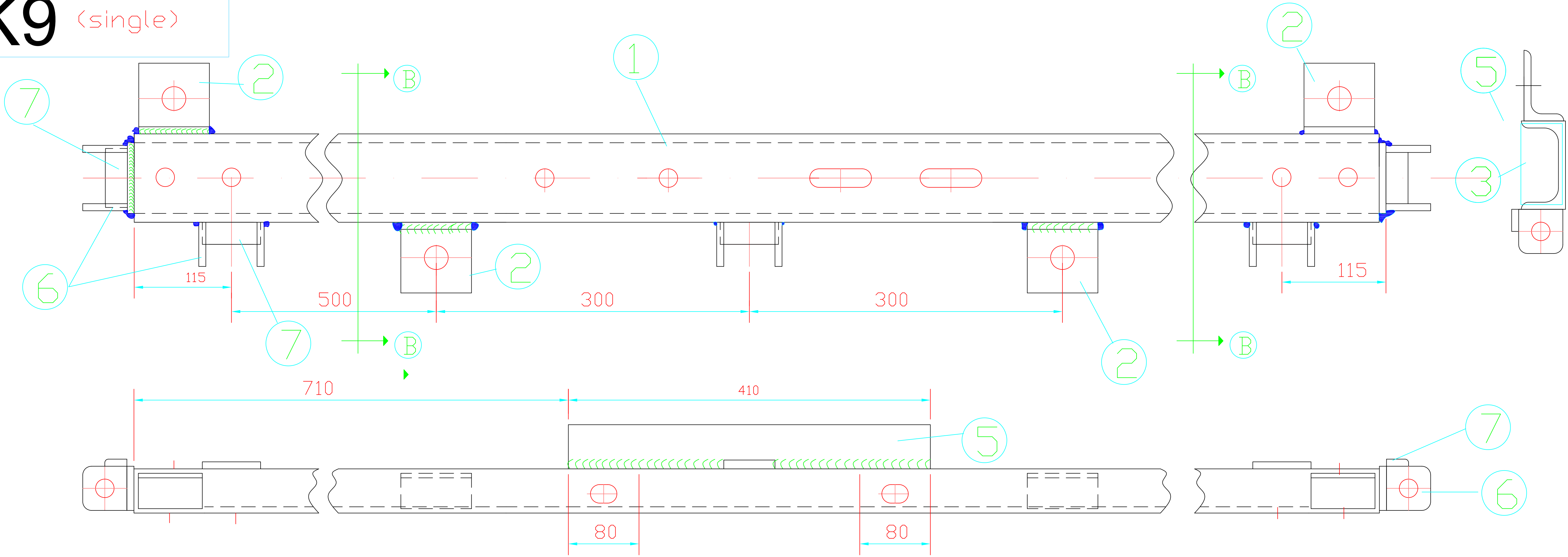


Hot Galvanized  
M.V Lattice Pole  
Tension Central  
Arm K2

Wieght kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant
40	4640	2320	IN° 8	1	2
5.3	1160	290	Plate 80*8	2	4
4	637	637	Plate 100*8	3	1
1.2	234	117	Plate 80*8	4	2
4,2	1120	560	StrutL40*40*4	5	2
	620	310	StrutL40*40*4	6	2
			UNC Bolt5/8"*40	7	4
			square washer 5/8"	8	2
55 Kg	Total Wieght				

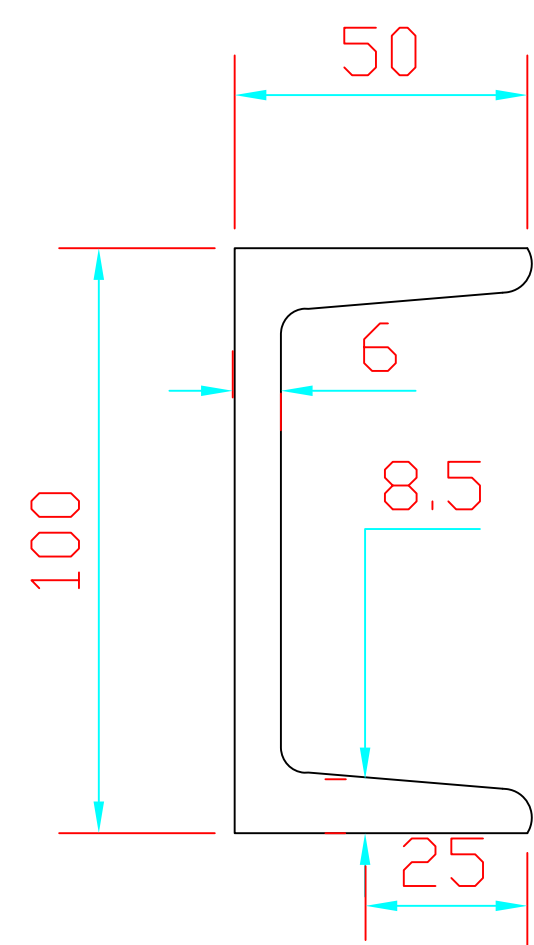
55 Kg	Total Wieght
-------	--------------

K9 (single)



Bolts Required for  
installation on the Arm

- 2 UNC Bolt 3/4"×40mm
- 2 Spring washer 3/4"
- 1 square washer 3/4"



شركة توزيع كهرباء محافظات غزة

**GEDCO**

Prepared: Eng. ziad ALHoussaini

Checked By: Eng. Kamil Rabah

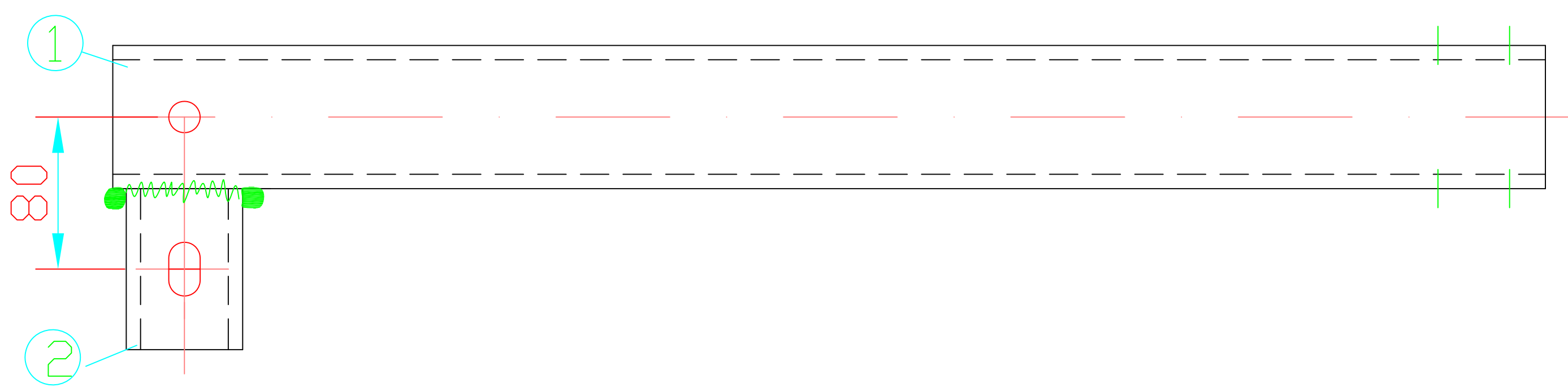
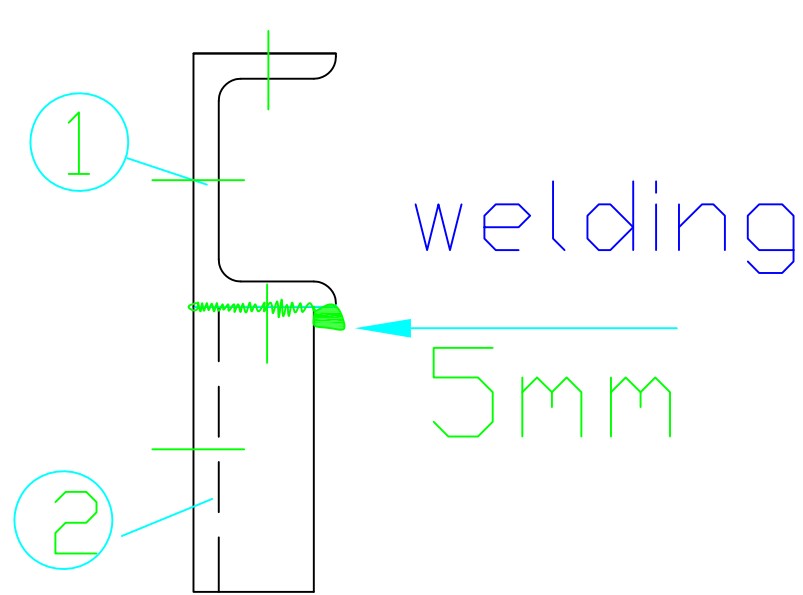
Hot Galvanized Lattice  
Pole Tension Central Arm

K9 (single)

Note: All component must be  
Steel 37.2 hot dip galvanized

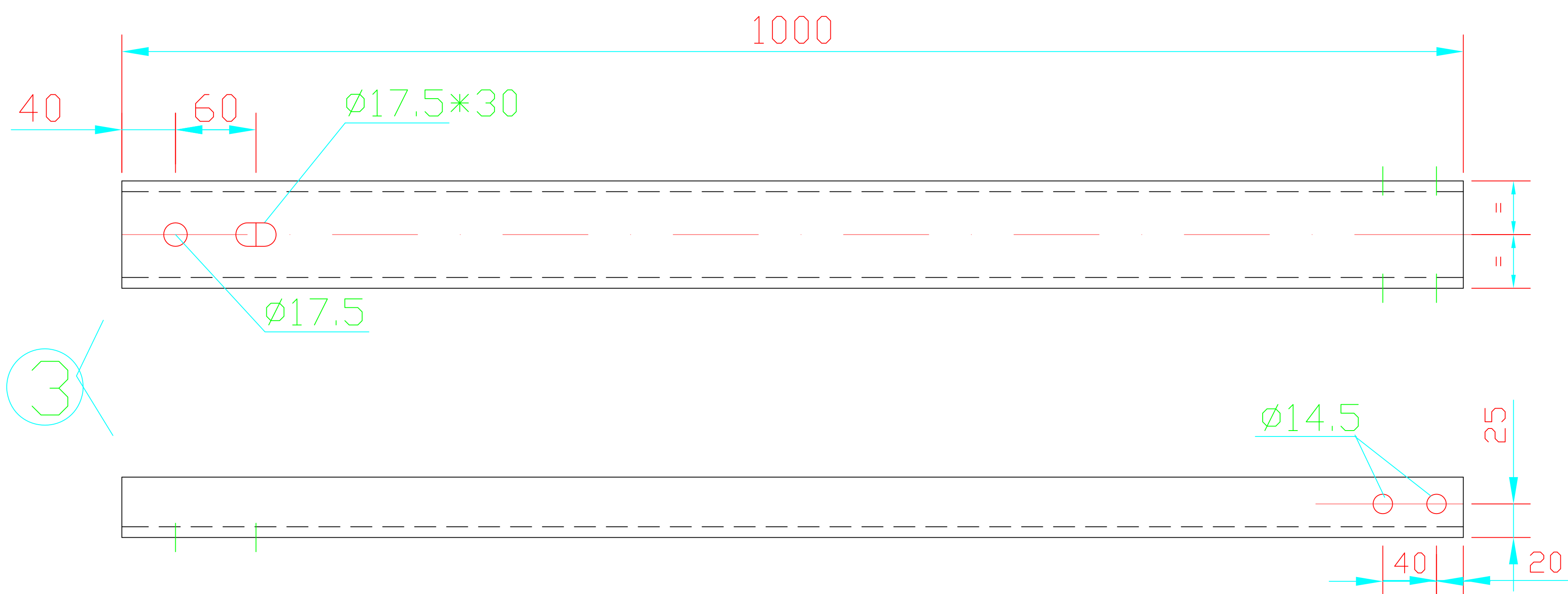
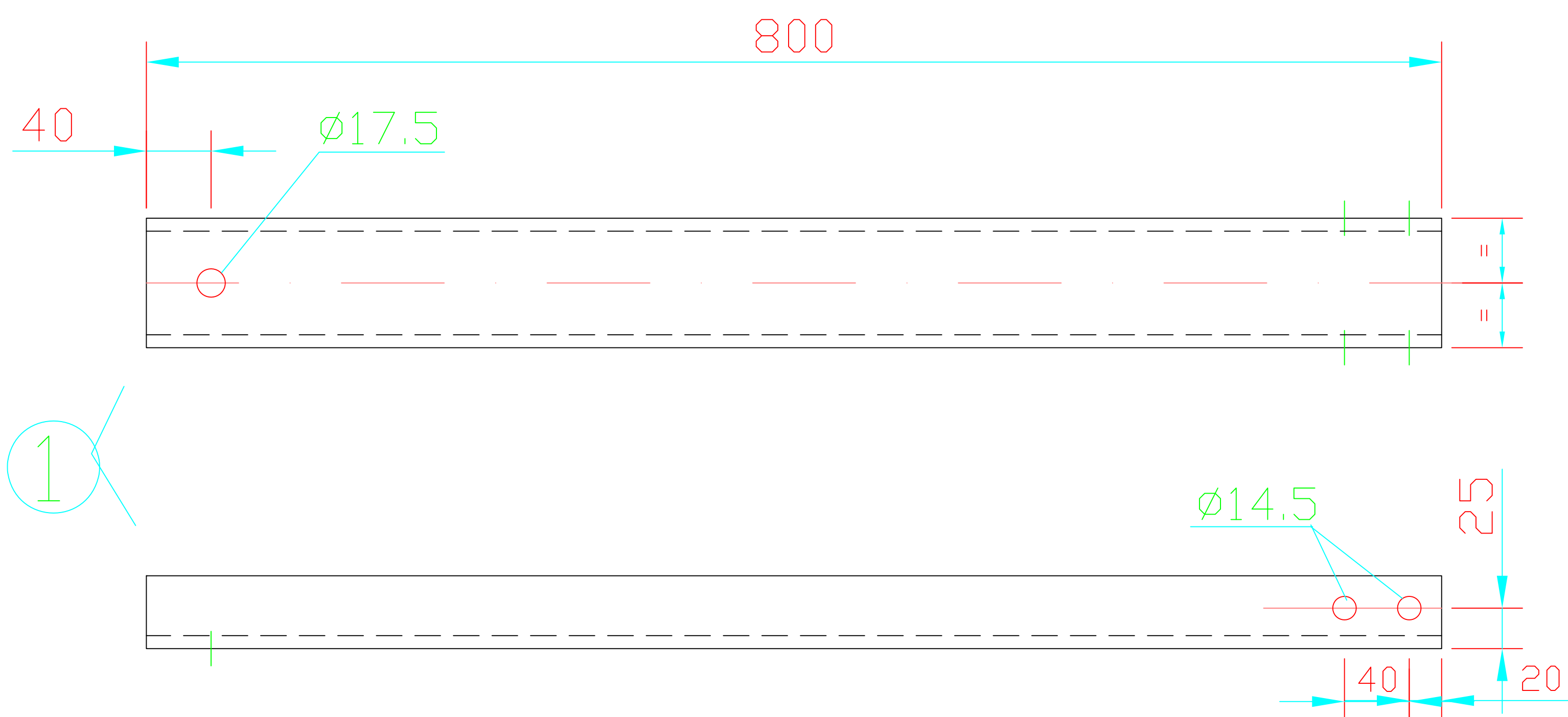
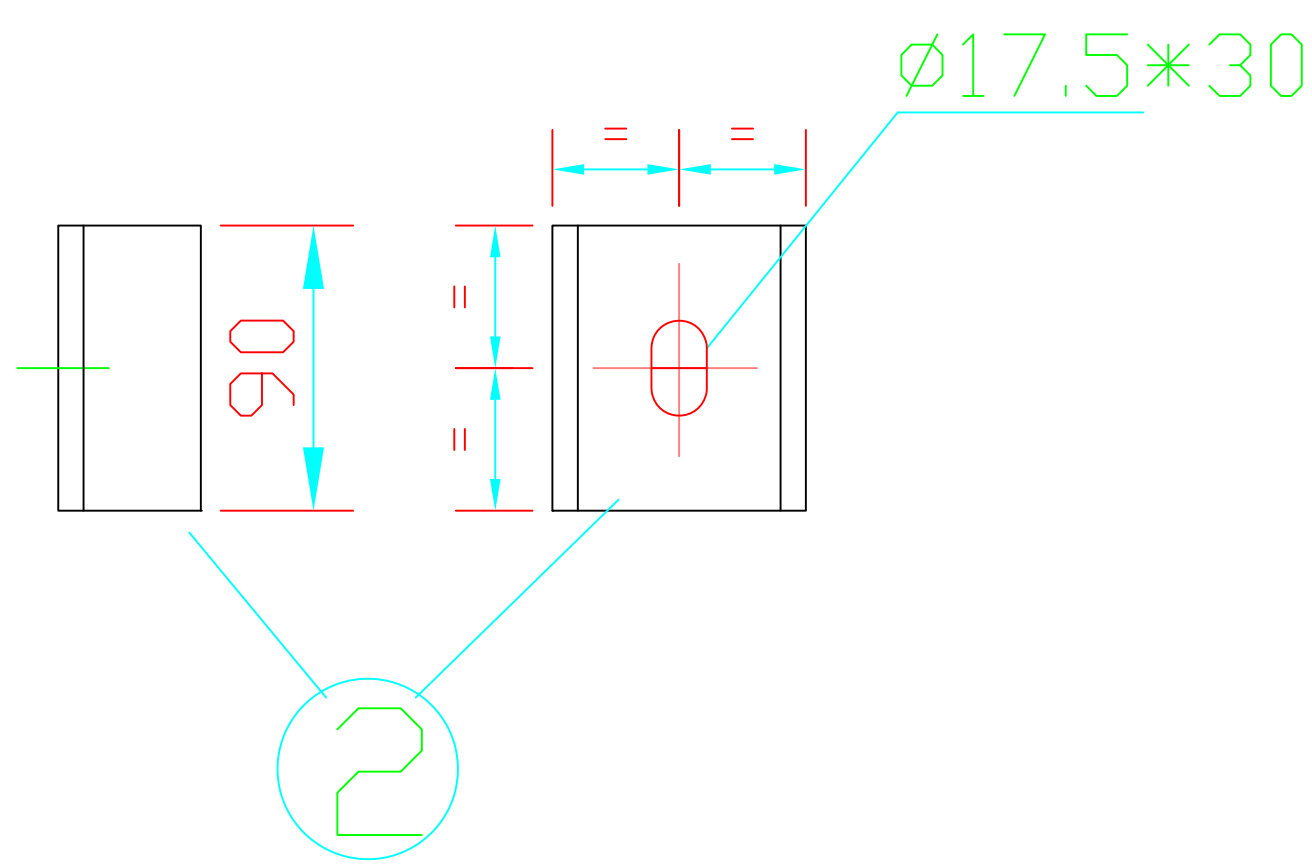
Weight kg	Total mm mesurment	Unit mm mesurment	Description	Quant.	Item
19.4	1830	1830	EN <sup>o</sup> 10	1	1
3.1	320	80	Base Insulator L80*80*8	4	2
0.6	180	90	Plate 50*8	2	3
0.2	160	80	Steel Pipe 3/4"	2	4
1	410	410	Plate 40*8	1	5
1.7	500	50	Plate 50*6	10	6
0.2	310	62	Plate 50*6	5	7
26 Kg Total Weight					





From Inside: welding

From Outside: Plug continuous and smooth welding



Note: All component must be RSt 37.2  
hot dip galvanized

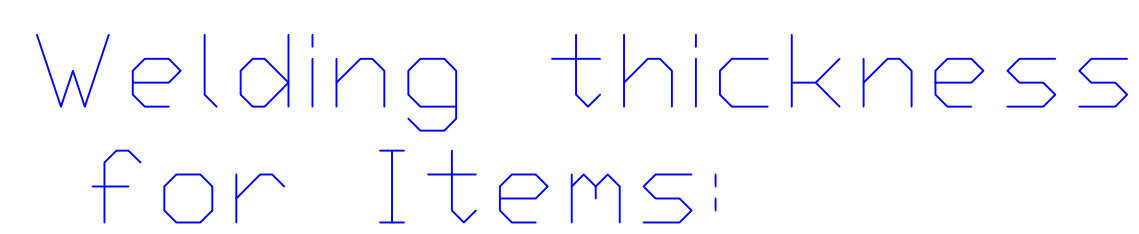
شركة توزيع كهرباء محافظات غزة

**GEDCO**

Prepared: Eng. ziad ALHoussaini

Hot Glavanized Auxillary  
Steel Arm K18  
For Earth Line

Weight K.g	unit mm mesurment	Description	Item	Quant.
5.7	800	CN 6.5	1	1
0.6	90	Trust CN 6.5	2	1
7.09	1000	CN 6.5	3	1
13 Kg		Total Weight		



⑫⑬⑭⑮⑯ → 4mm



8 UNC Bolt 3/4"\*40mm  
8 square washer 3/4"  
2 UNC Bolt 5/8"\*35mm  
2 Ring washer 5/8"

Note : All component must be Steel 37.2 hot dip galvanized



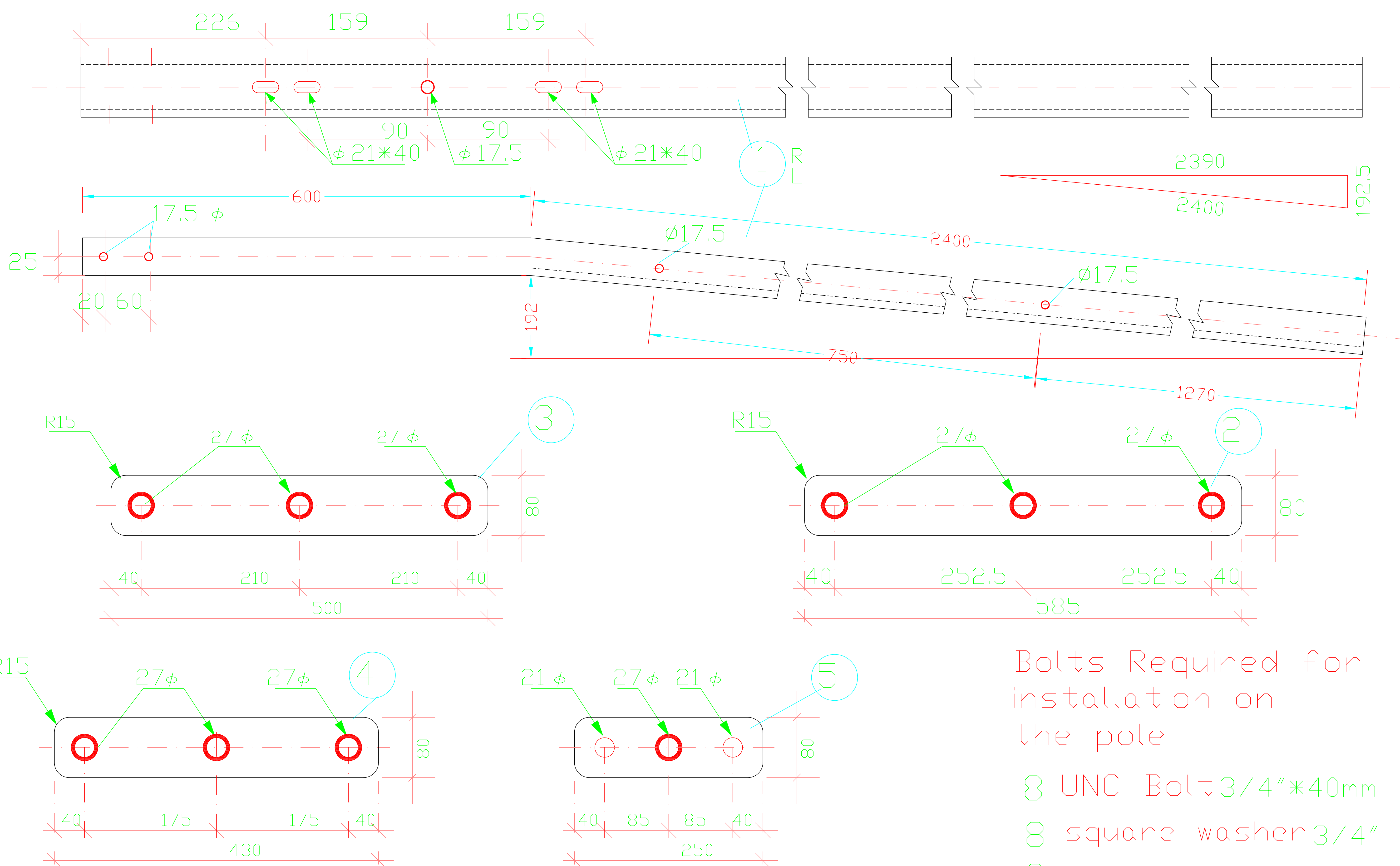
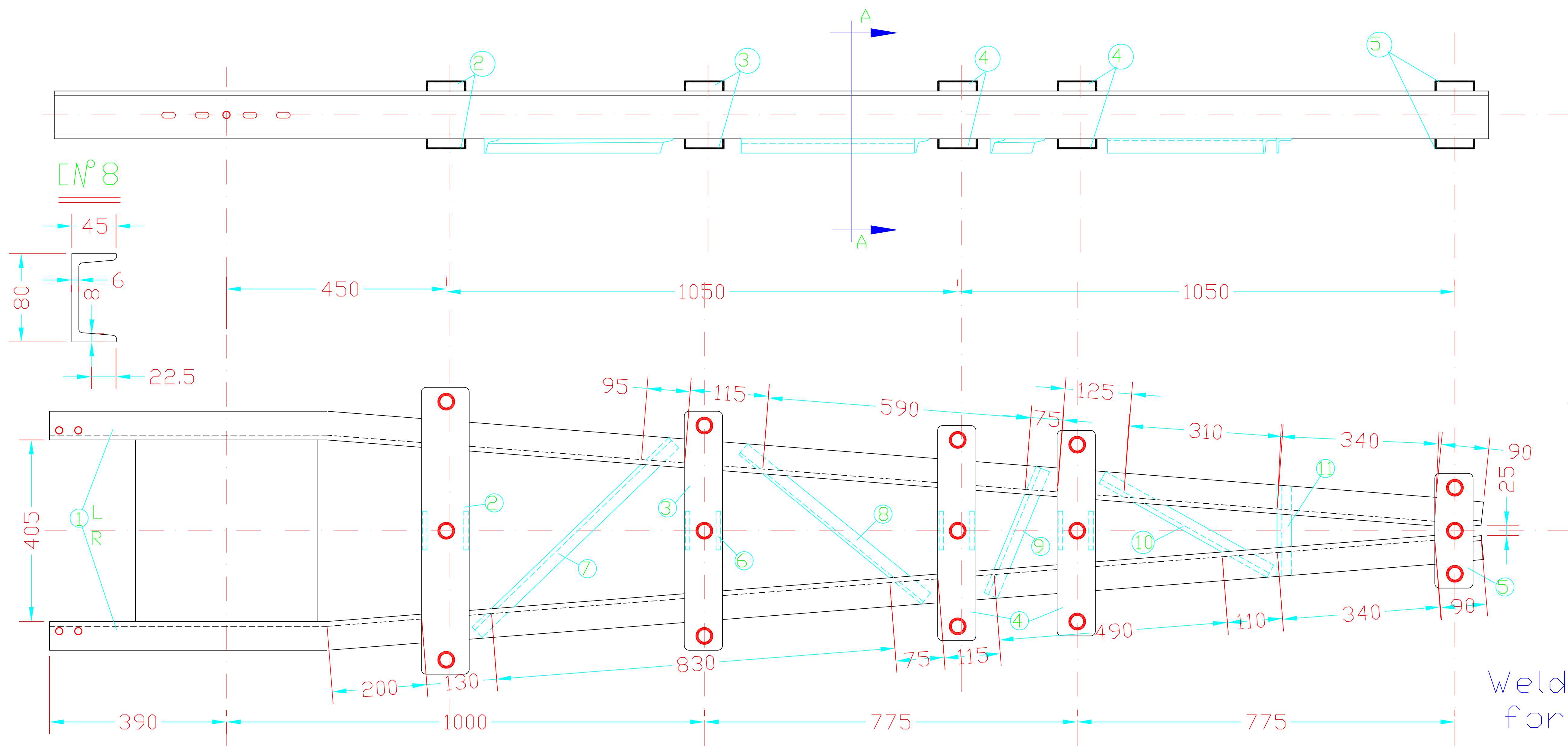
**GEDCo**

Prepared: Eng. ziad ALHoussaini

Wieght kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
44	5100	2550	EN° 8	1	1R+1L
4	637	637	Plate 100*8	2	1
21.1	234	117	Plate 80*8	3	2
	1120	560	Plate 80*8	4	2
	920	460	Plate 80*8	5	2
	860	430	Plate 80*8	6	2
	500	250	Plate 80*8	7	2
	600	100	Support Plate 80*8	8	6
			UNC Bolt 5/8"*40	9	4
		Spring washer 5/8"	10	4	
		square washer 5/8"	11	2	
4.6	320	320	L 40*40*4	12	1
	520	520	L 40*40*4	13	1
	320	320	L 40*40*4	14	1
	370	370	L 40*40*4	15	1
	180	180	L 40*40*4	16	1

73.7 Kg Total Weight





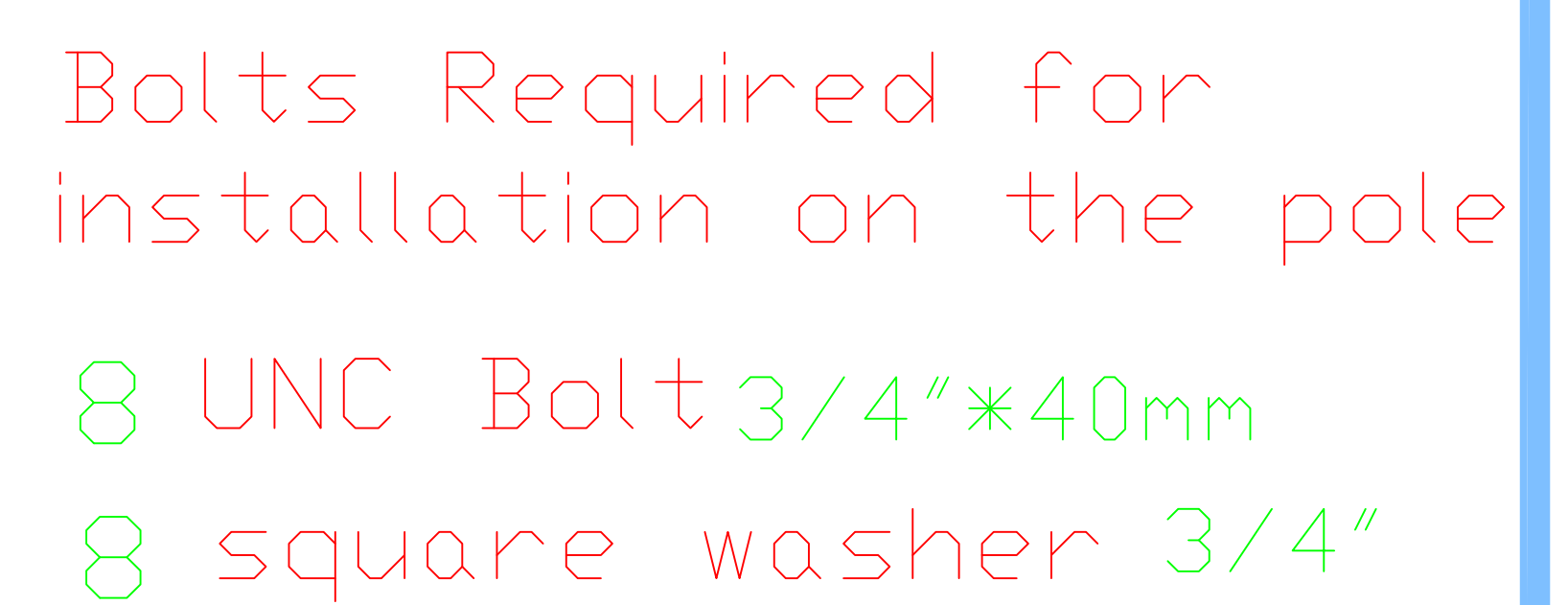
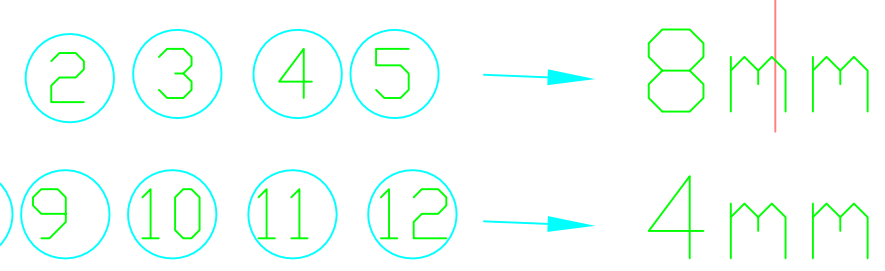
- 8 UNC Bolt  $3/4"$ \*40mm
- 8 square washer  $3/4"$
- 2 UNC Bolt  $5/8"$ \*35mm
- 2 Ring washer  $5/8"$



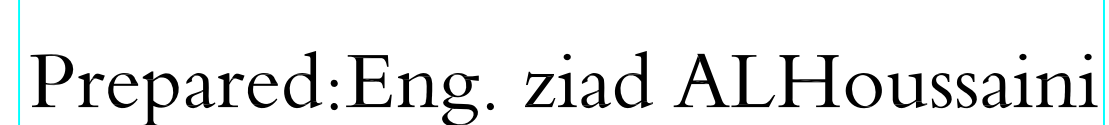
Note: All component must be Steel 37.2 hot dip galvanized

Wiegth kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
51.8	6000	3000	EN 8	1 R	1R+1L
26.2	1170	585	Plate 80*8	2	2
	1000	500	Plate 80*8	3	2
	1720	430	Plate 80*8	4	4
	500	250	Plate 80*8	5	2
	800	100	Support Plate 80*8	6	8
45.1	1870	580	L 40*40*4	7	1
		480	L 40*40*4	8	1
		290	L 40*40*4	9	1
		350	L 40*40*4	10	1
		170	L 40*40*4	11	1
82.3 Kg Total Wiegth					










Note: All component must be Steel 37.2  
hot dip galvanized

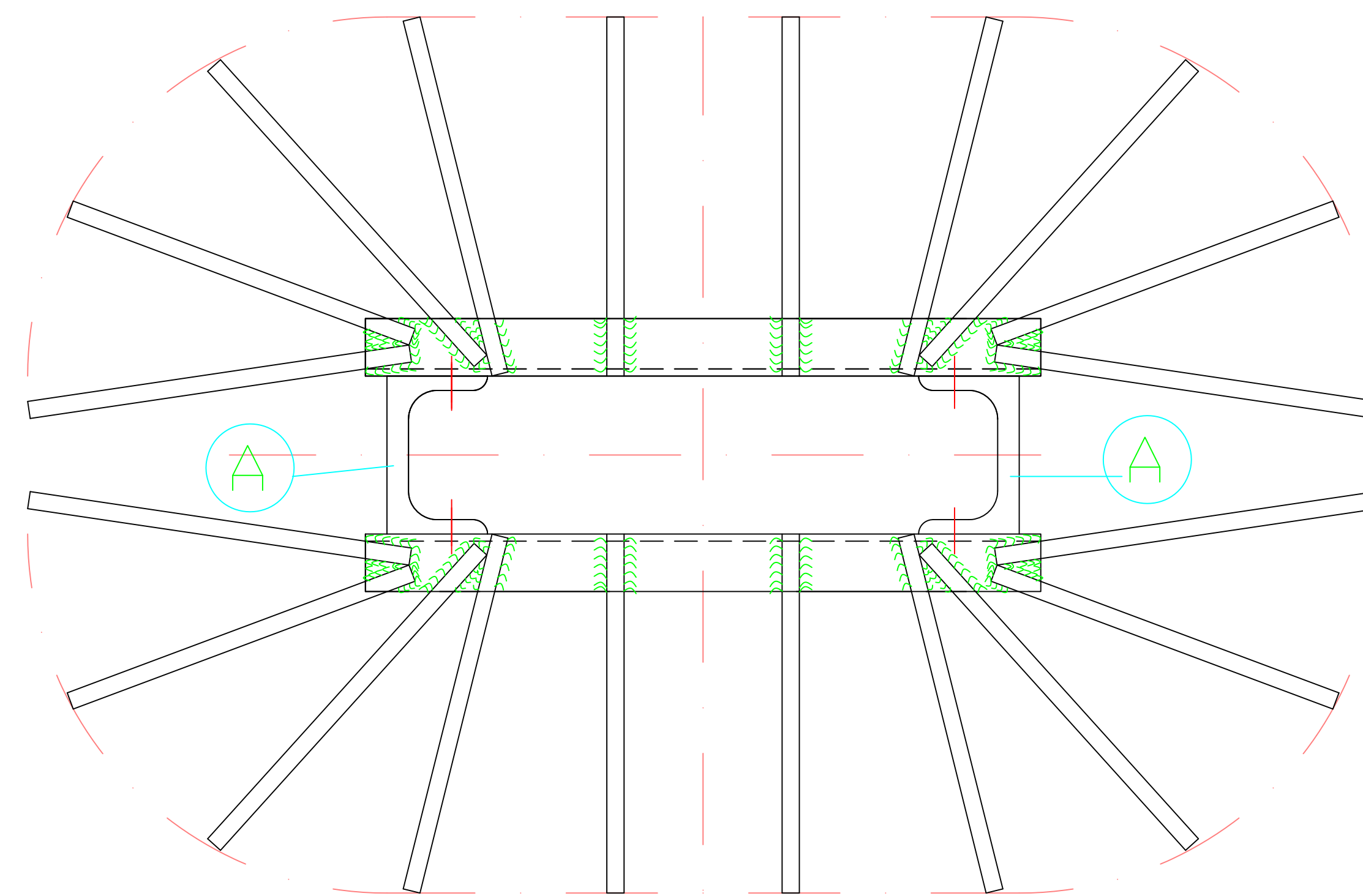
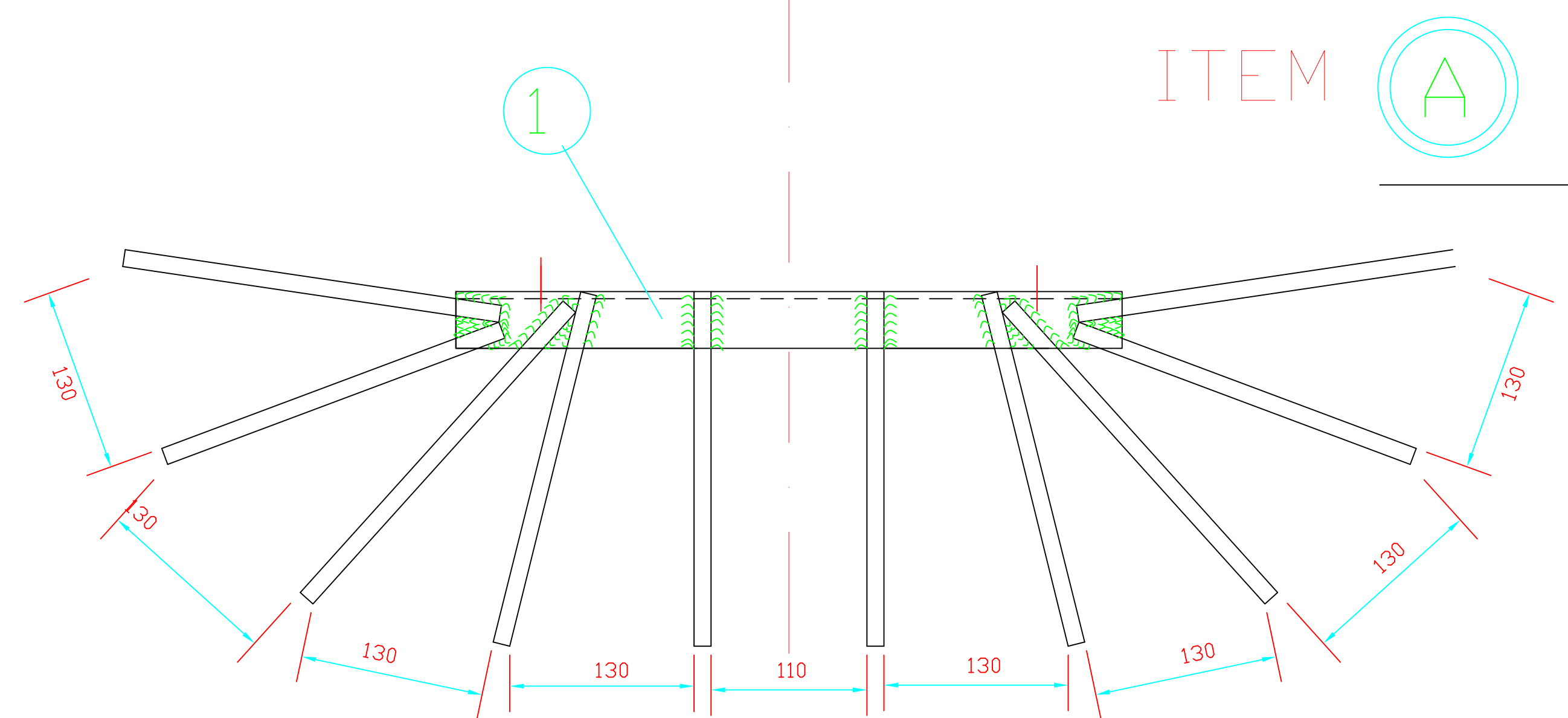
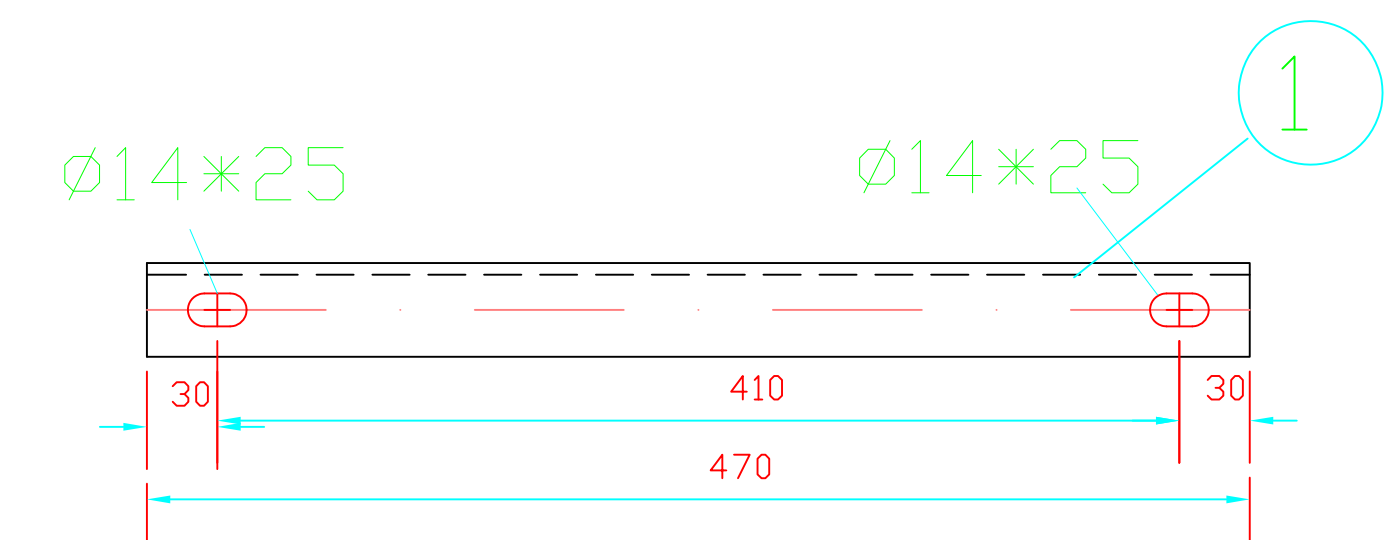
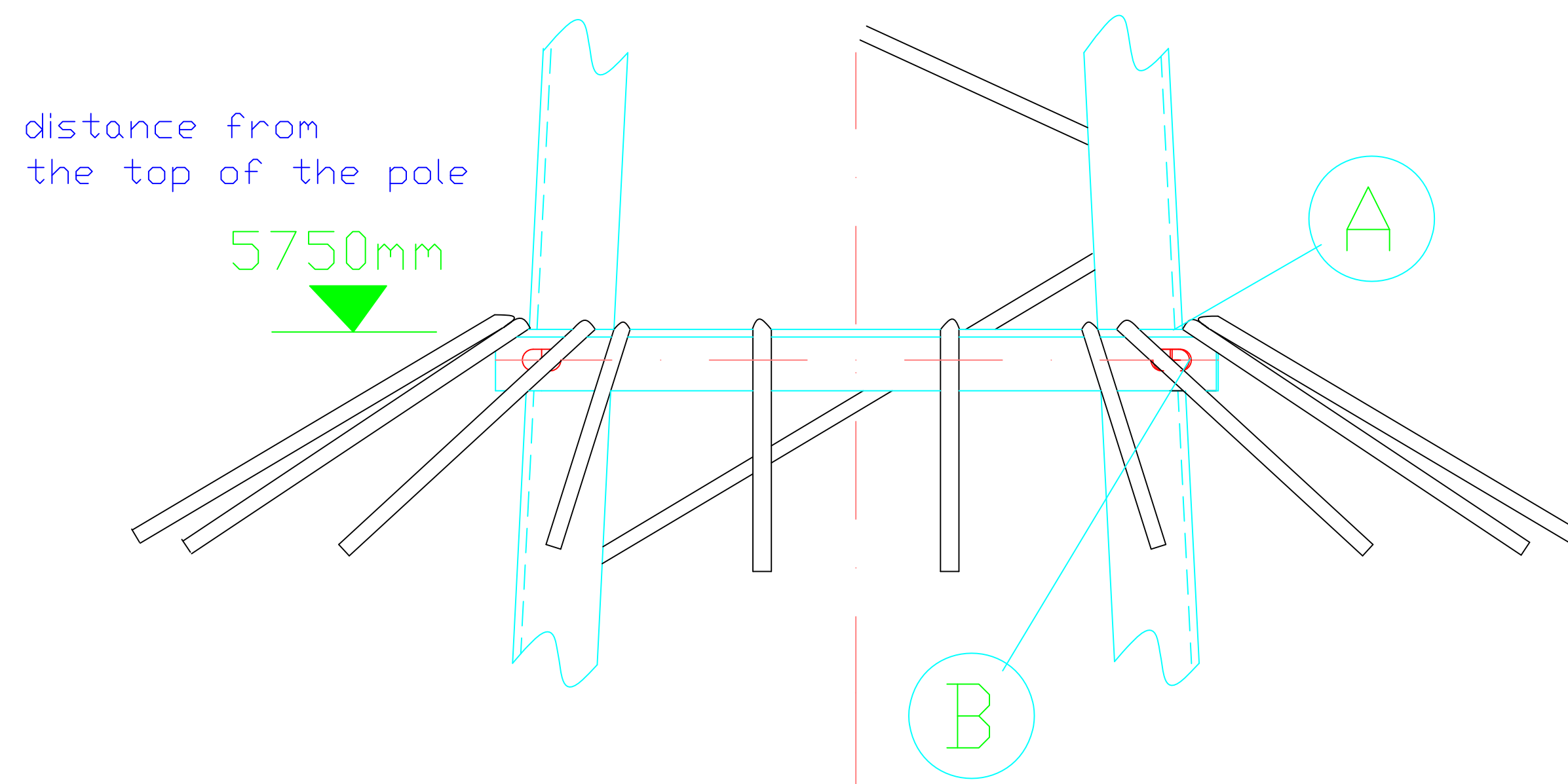
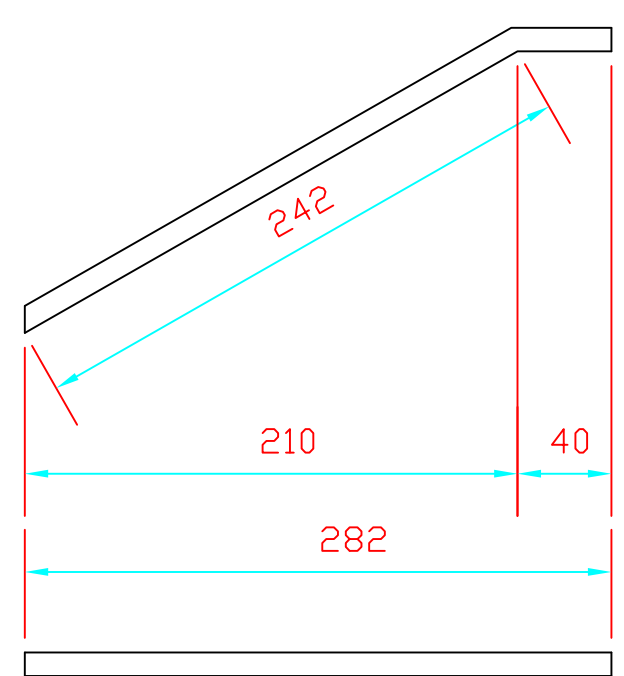
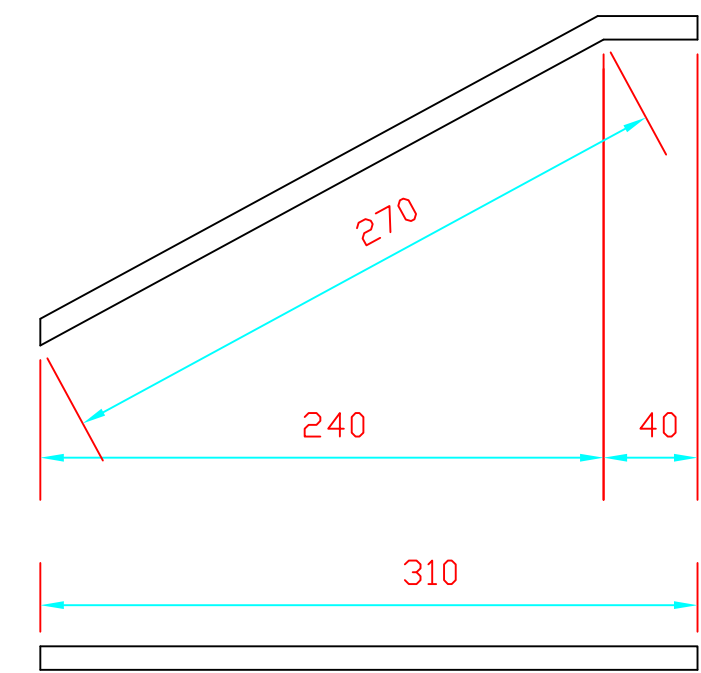
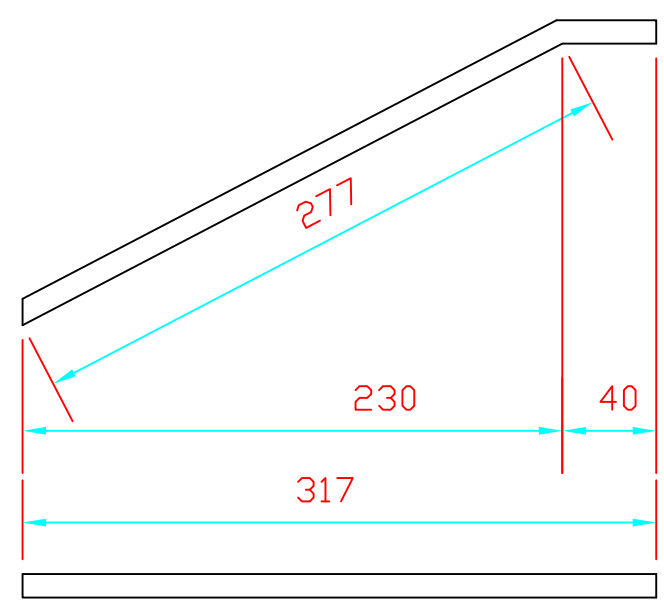


Hot Galvanized  
Lattice steel

# Pole Side Arm K64

Wiegth kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
49.1	5690	2845	L <sup>N° 8</sup>	1	2
6.5	1300	650	Plate  80*8	2	2
5.4	1080	540	Plate  80*8	3	2
8.8	1760	440	Plate  80*8	4	4
2.5	500	250	Plate  80*8	5	2
3	600	100	Support Plate  80*8	7	6
1.5	605	605	L 40*40*4	8	1
1.2	510	510	L 40*40*4	9	1
0.7	320	320	L 40*40*4	10	1
0.9	375	375	L 40*40*4	11	1
0.4	185	185	L 40*40*4	12	1

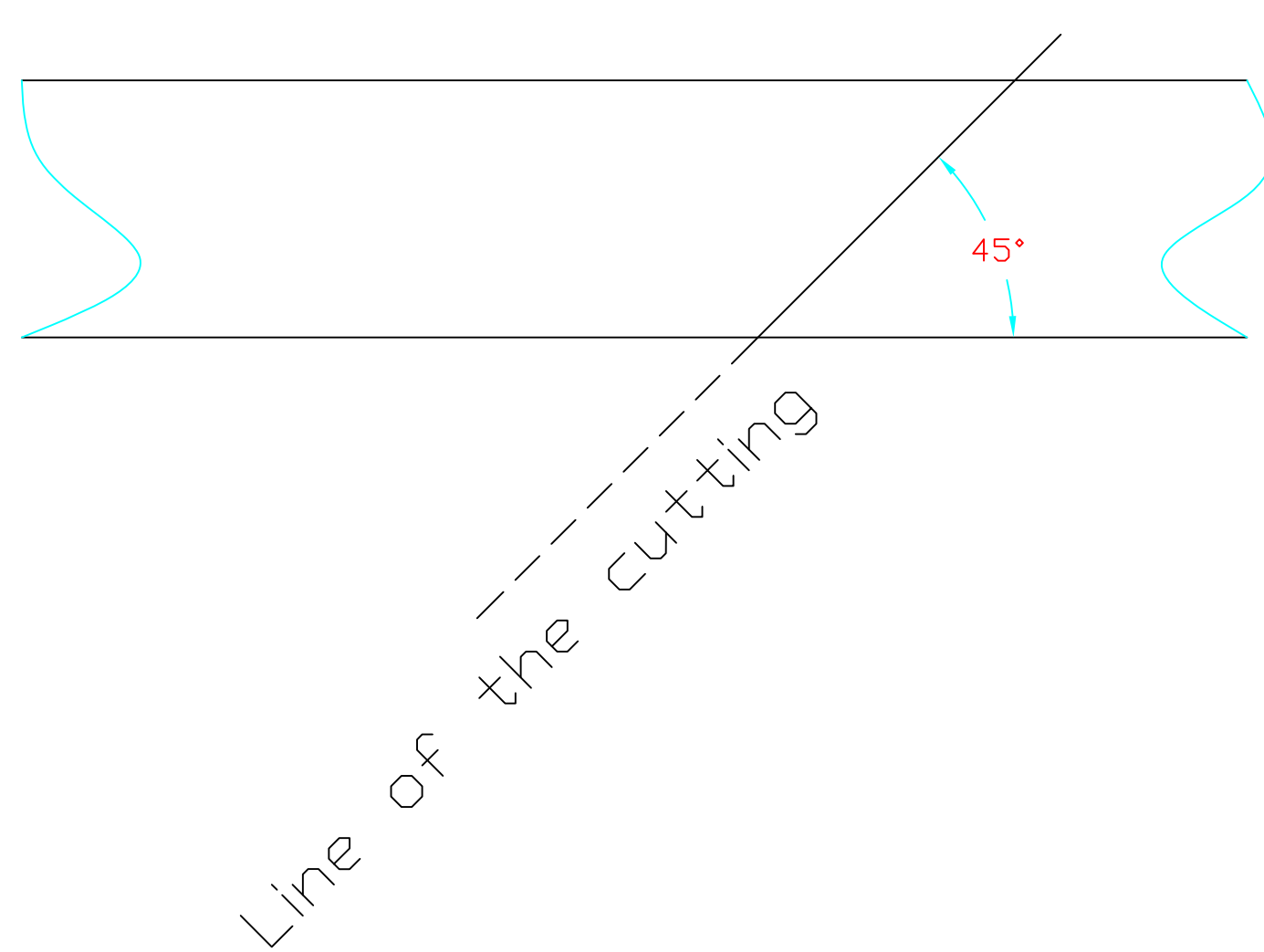
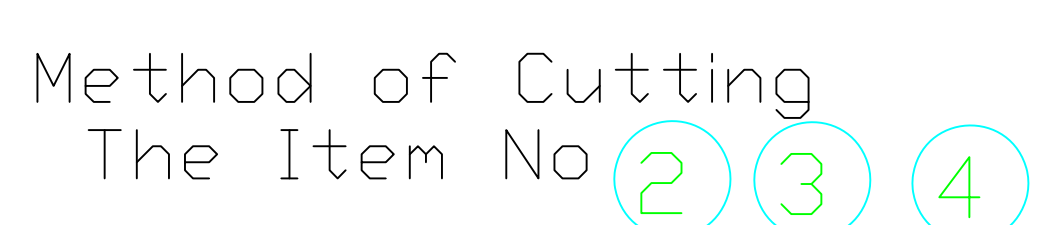
80 Kg	Total Wieght
-------	--------------



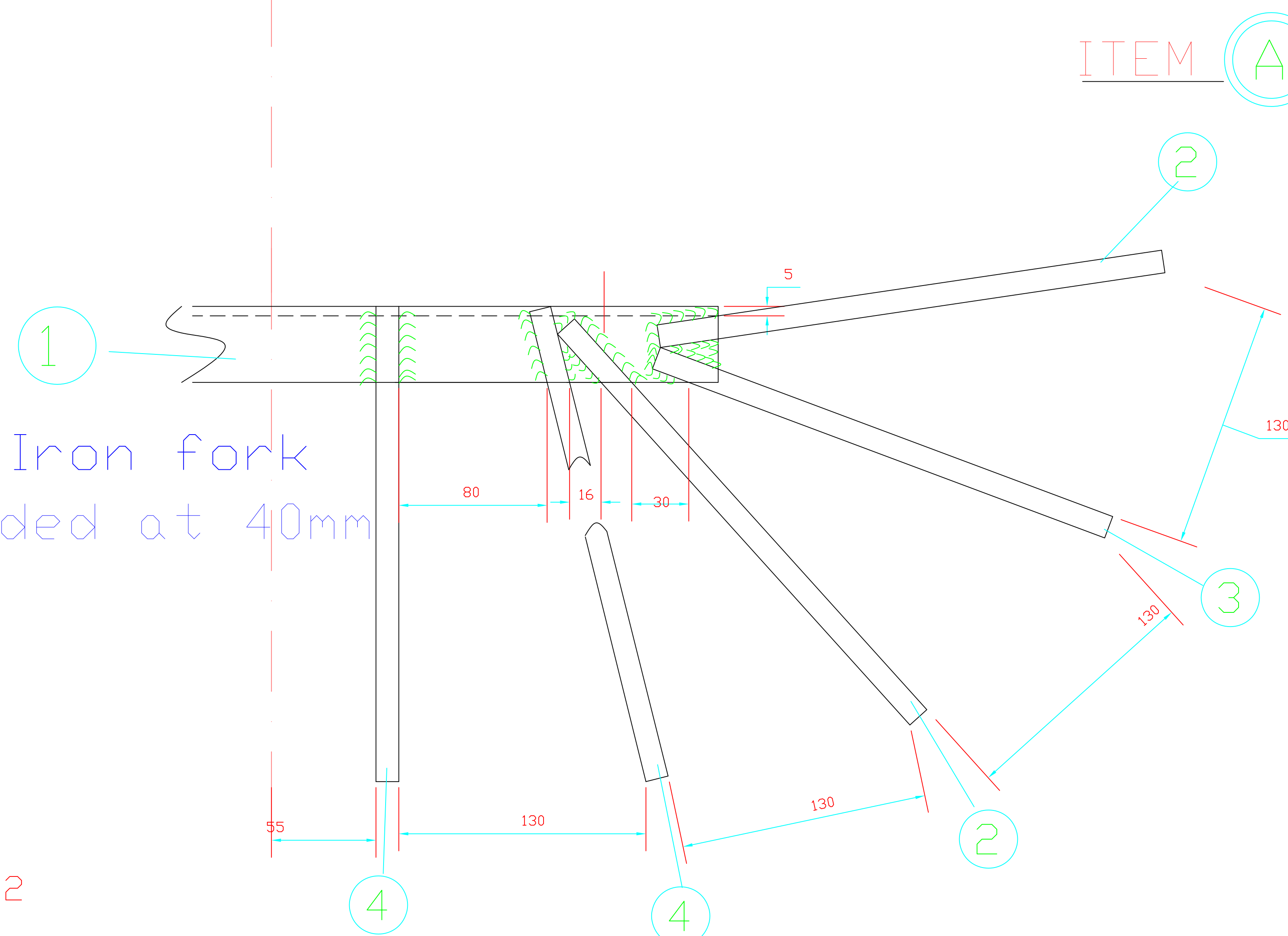
### Bolts Required for installation on the pole

2 UNC Bolt 1/2"\*180mm

2 square washer 1/2"



The Iron fork  
is welded at 40mm



Note: All component must be Steel 37.12  
hot dip galvanized



شركة توزيع كهرباء محافظات غزة  
**GEDCo**

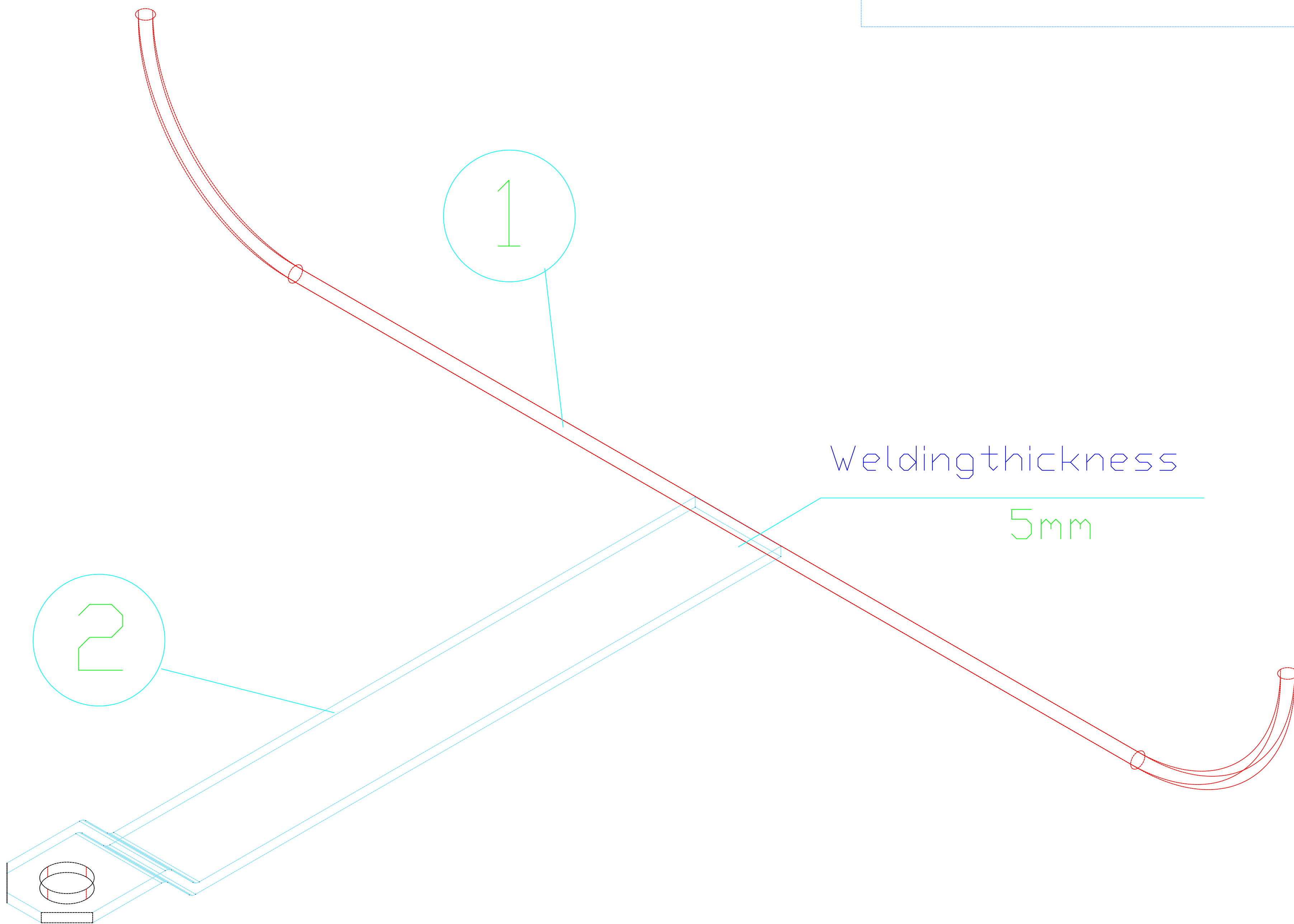
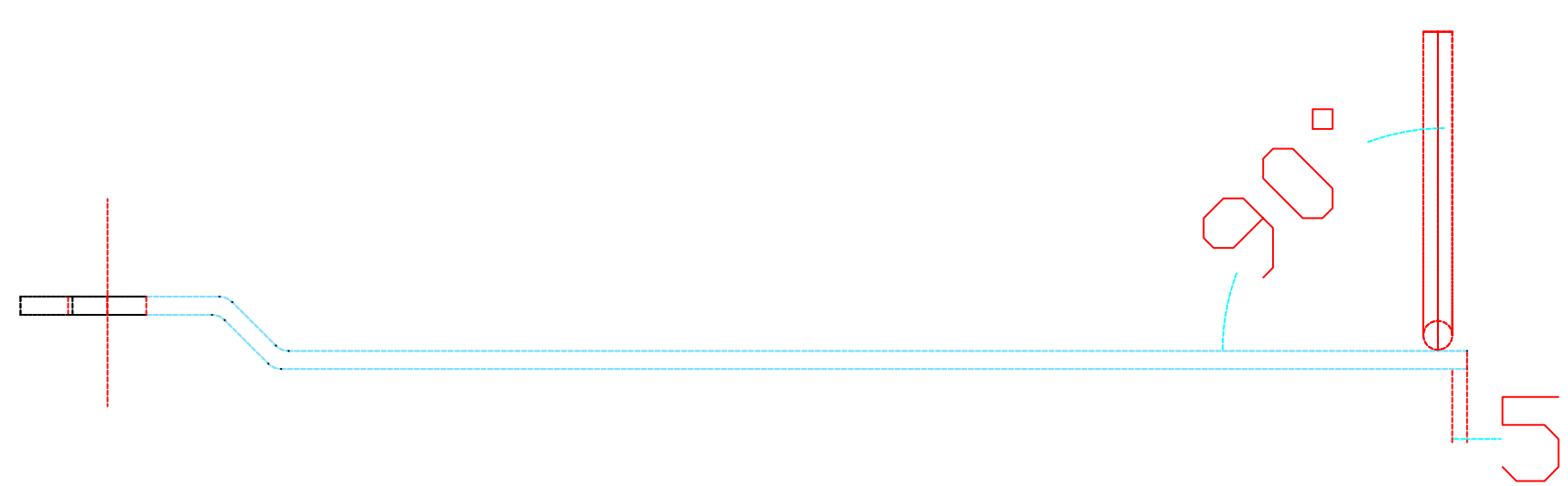
Prepared: Eng. ziad ALHoussaini

Checked By: Eng. Kamil Rabah

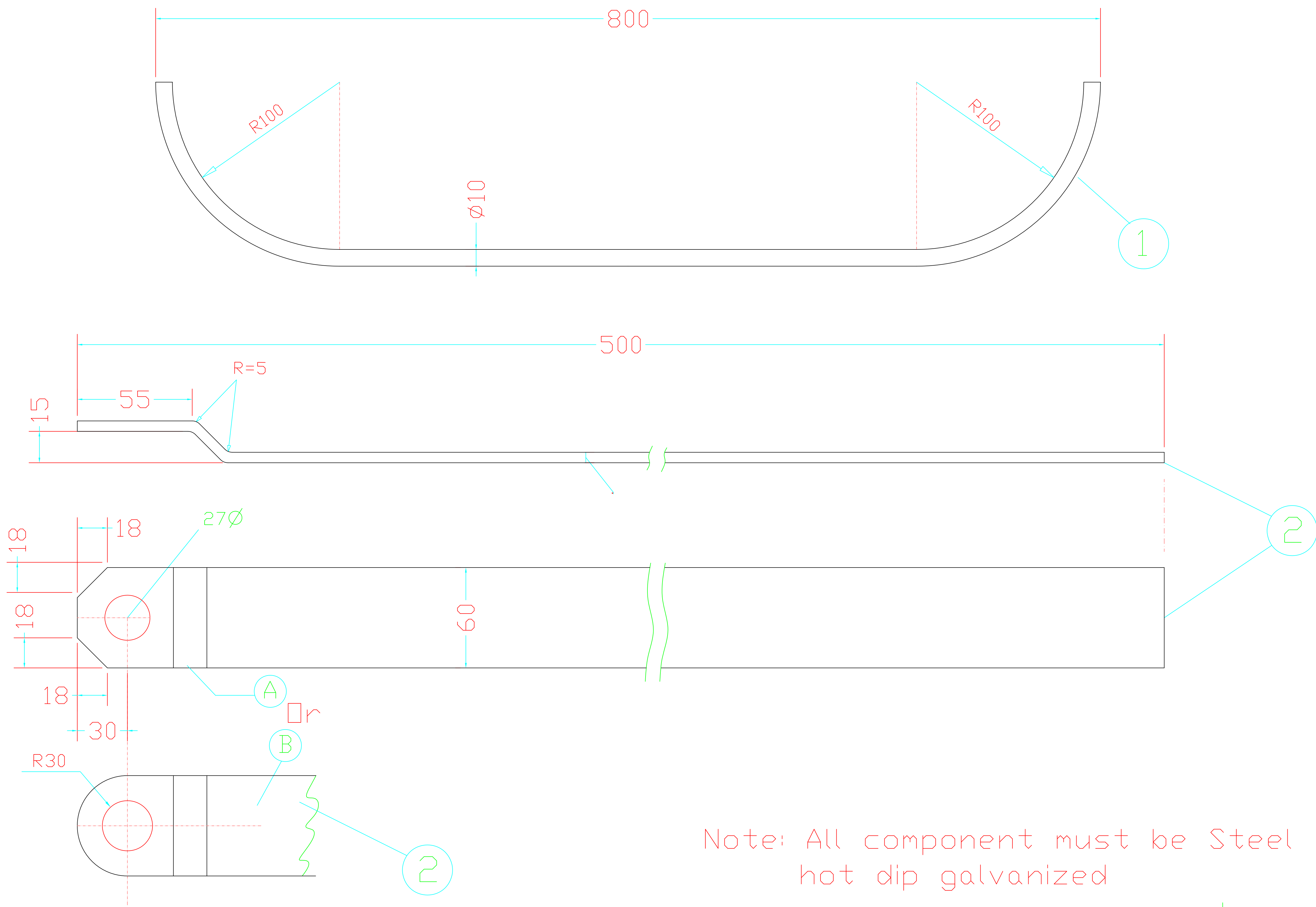
Weight Kg	Total mm nesurment	Unit mm nesurment	Description	Item	Quant
2.3	940	470	L40*40*4	1	2
2.2	2536	317	ø12	2	8
1.1	1240	310	ø12	3	4
2	2256	382	ø12	4	8

7.6 Total Weight





Description



Note: All component must be Steel RST37.2 hot dip galvanized

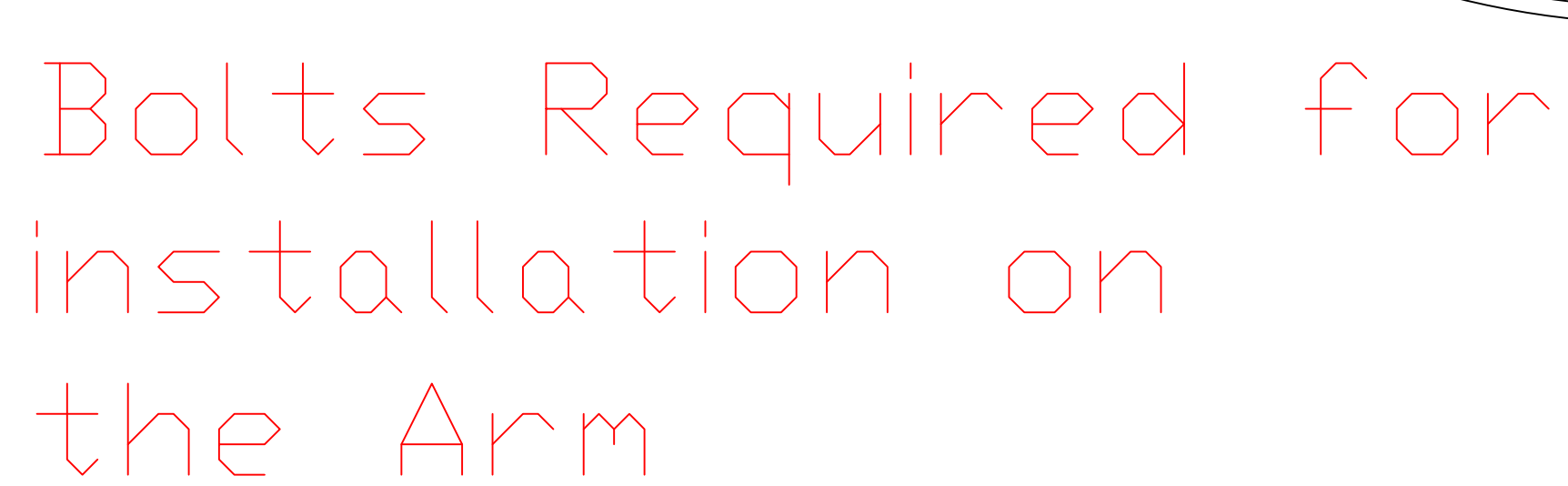
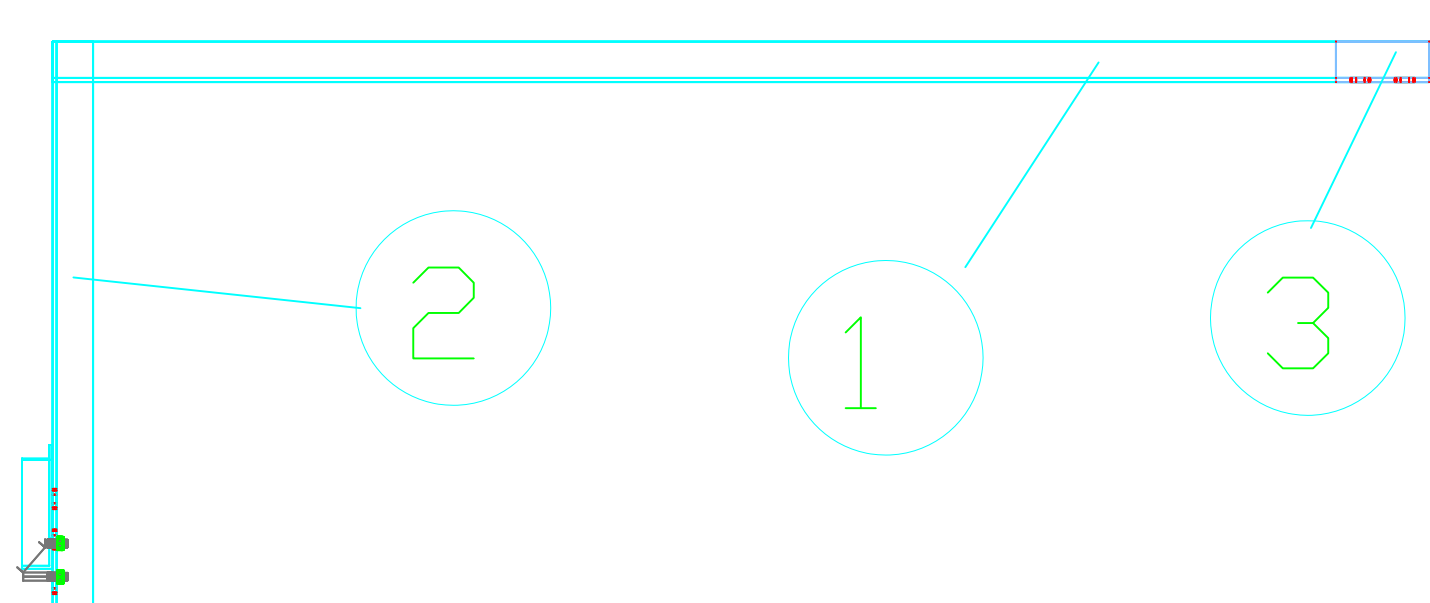
شركة توزيع كهرباء محافظات غزة

**GEDCO**

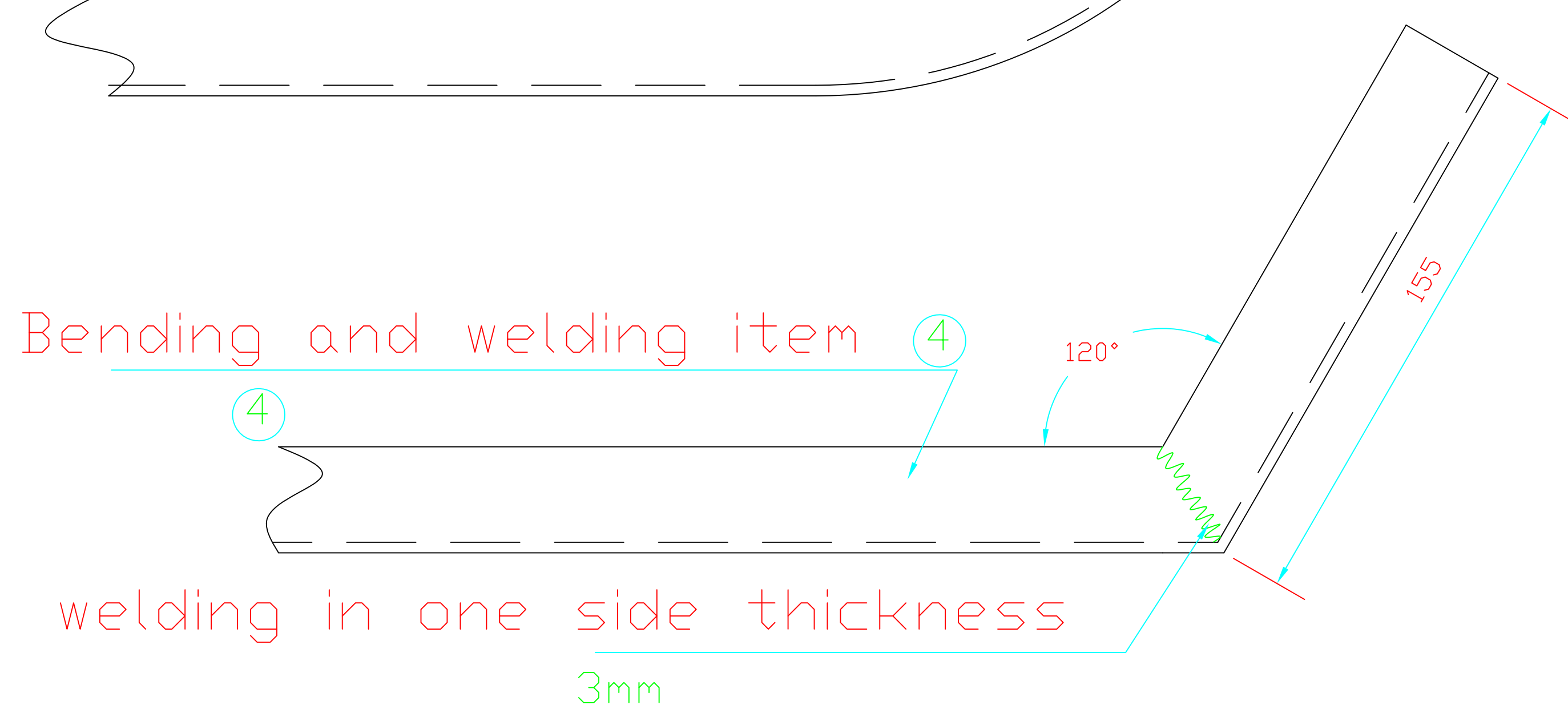
Prepared:Eng. ziad ALHoussaini

Hot Galvnized  
Protection Arm K81

	Unit mm mesurment	Description	Item	Quant.
For one Phase	910	10 Ø	1	1
	510	Plate 60*5	2	1



Note: All component must be Steel 37.2 hot dip galvanized

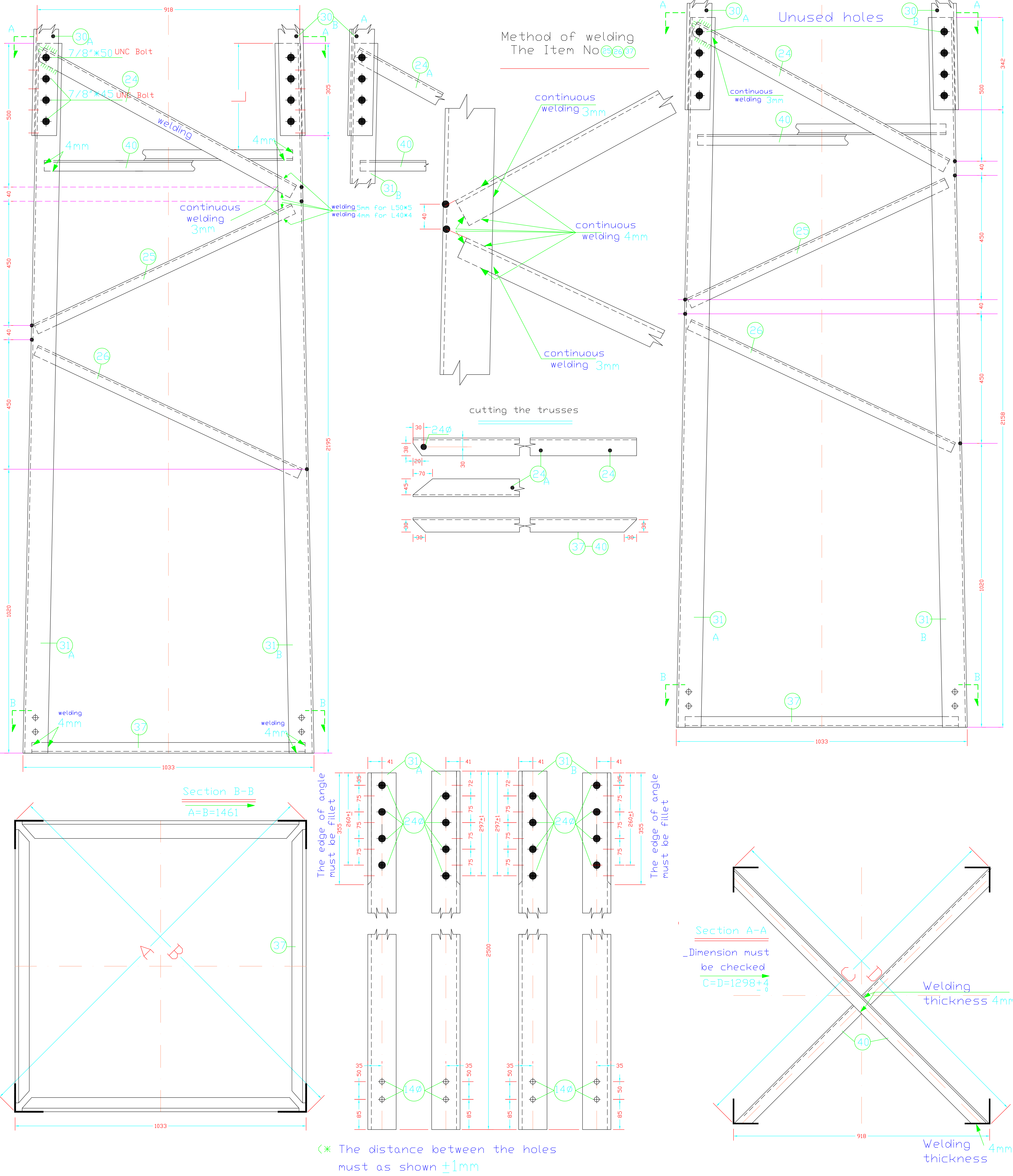


Weight K.g	Total mm mesurment	Unit mm mesurment	Description	Item	Quant
		3150	L30*30*3	4	1
	290	145	V-Shape angle $\phi 3/8"$	③A	2
19	5030	115	L50*50*5	3	2
		700	L50*50*5	2	2
		1700	L50*50*5	1	2



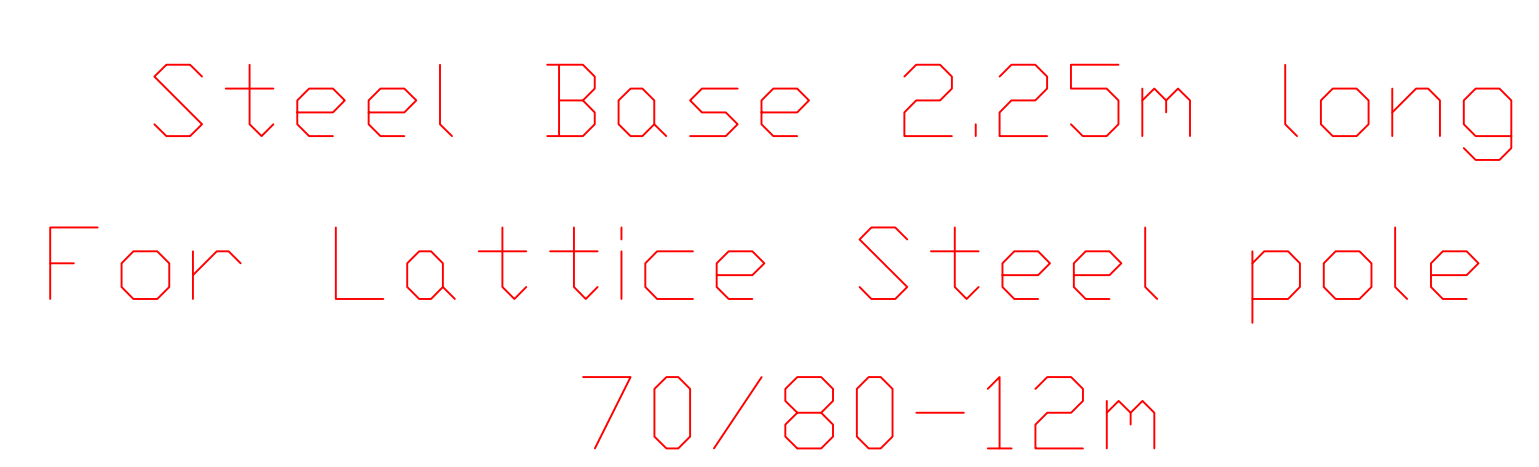
Checked By:Eng. Kamil Rabah



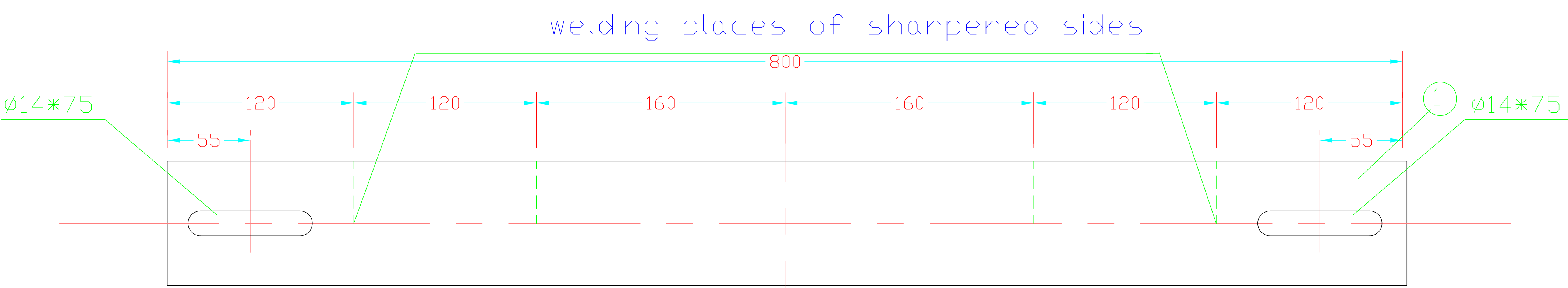
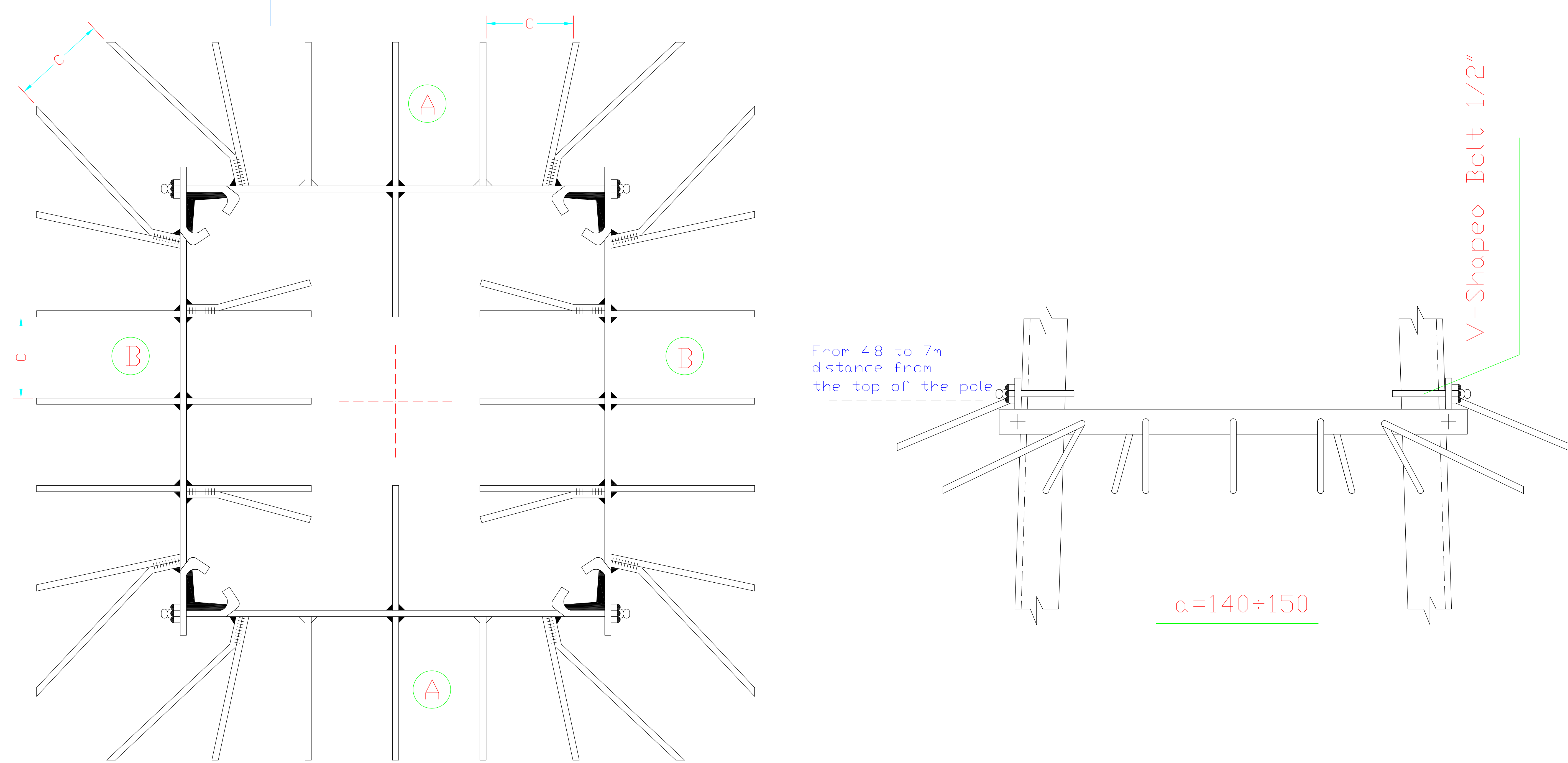


Weight kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
8.7	2570	1285	Truss L45*45*5	40	2
9.5	3920	980	Truss L40*40*4	37	4
122	10000	2500	L90*90*9	31AB	2+2
9.8	4040	1010	Truss L40*40*4	26	4
9.6	3960	990	Truss L40*40*4	25	4
7.4	1970	985	Truss L50*50*5	24A	2
7.5	2000	1000	Truss L50*50*5	24	2
175kg Total Weight					

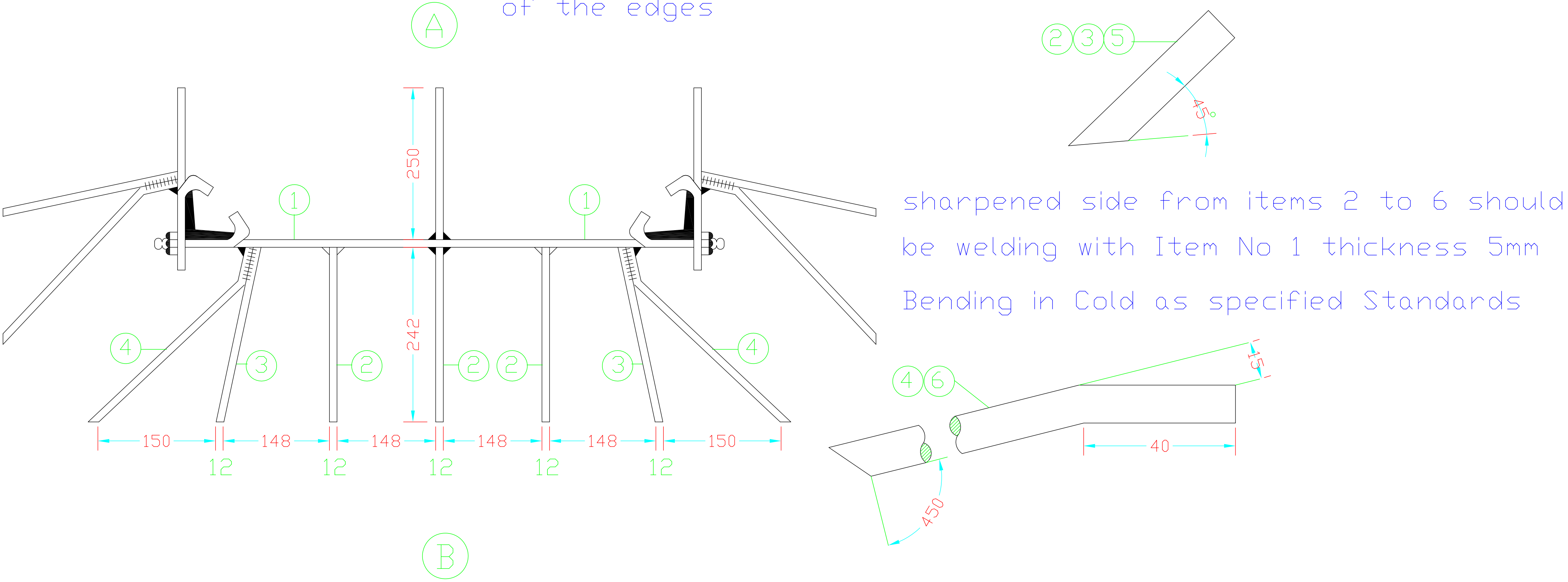


[illegible]

Weight kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
8.6	2550	1275	Truss L45*45*5	40	2
9.4	3880	970	Truss L40*40*4	37	4
96.6	10000	2500	L80*80*8	31AB	2+2
9.8	4040	1010	Truss L40*40*4	26	4
9.6	3960	990	Truss L40*40*4	25	4
7.5	1980	990	Truss L50*50*5	24A	2
7.6	2020	1010	Truss L50*50*5	24	2
149 kg	Total Weight				



Method of bending and Cutting of the edges



Bolts Required for installation on the pole

8 V-Shaped Bolt 1/2" 140mm

Note: All component must be Steel 37.2 hot dip galvanized



Anti- Climbing Steel Arm K113/8

Weight Kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
10	3200	800	Plate 50*6	1	4
2.9	3240	270	Ø 12	2	12
2.0	2240	280	Ø 12	3	8
2.4	2680	335	Ø 12	4	8
2.0	2240	280	Ø 12	5	8
1.0	1120	280	Ø 12	6	4
21kg					



K160/1



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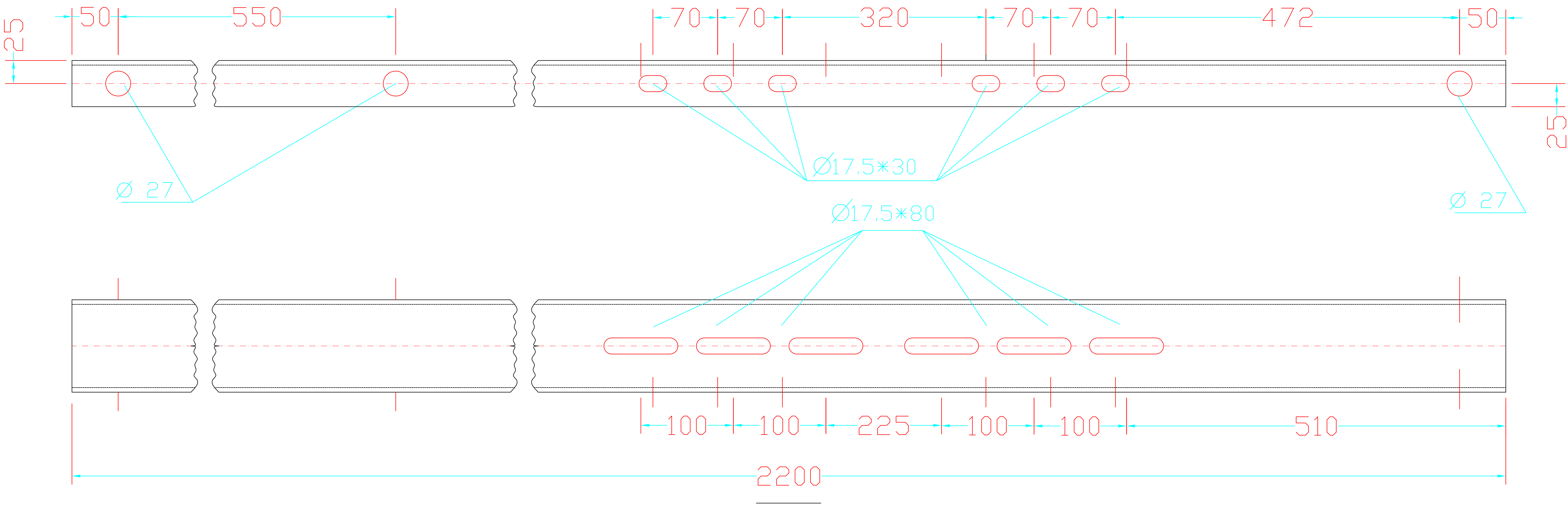
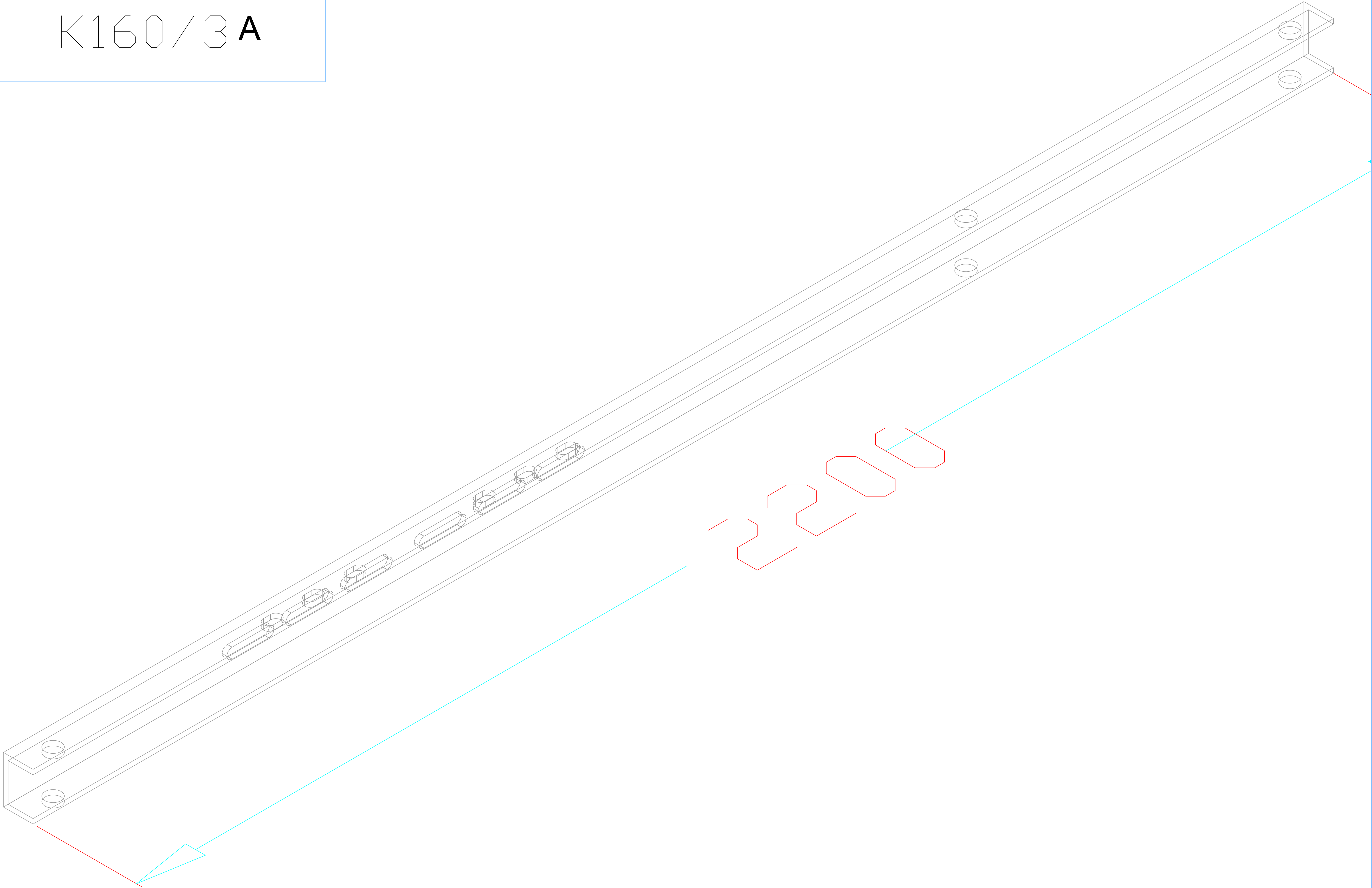
## Hot Galvanized Auxilliary Steel Arm K160/1

Weight Kg	Unit mm mesurment	Description	Quant.
4,6	850	L60*60*6	1

Note: All component must be Steel RST37.2  
hot dip galvanized



K160/3 A



شركة توزيع كهرباء محافظات غزة  
**GEDCo**

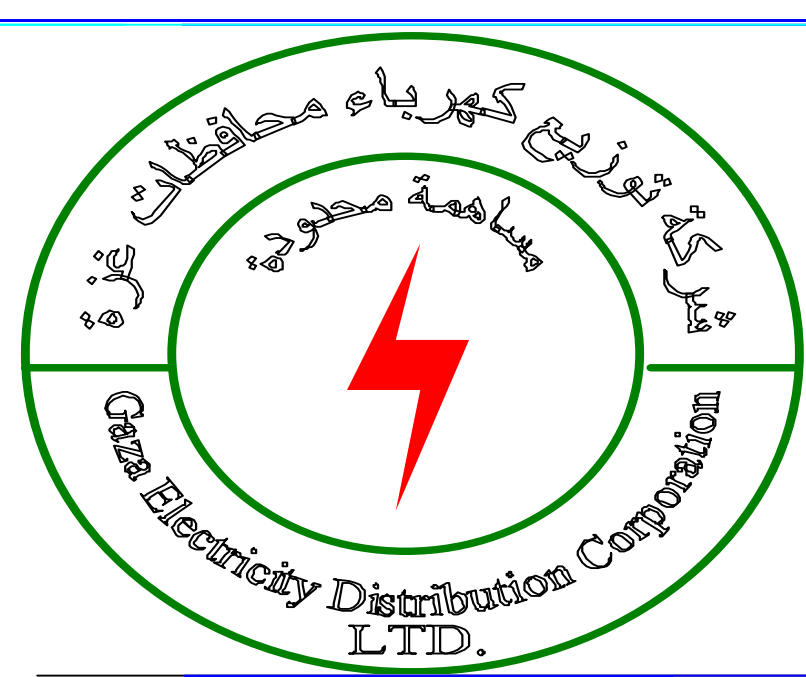
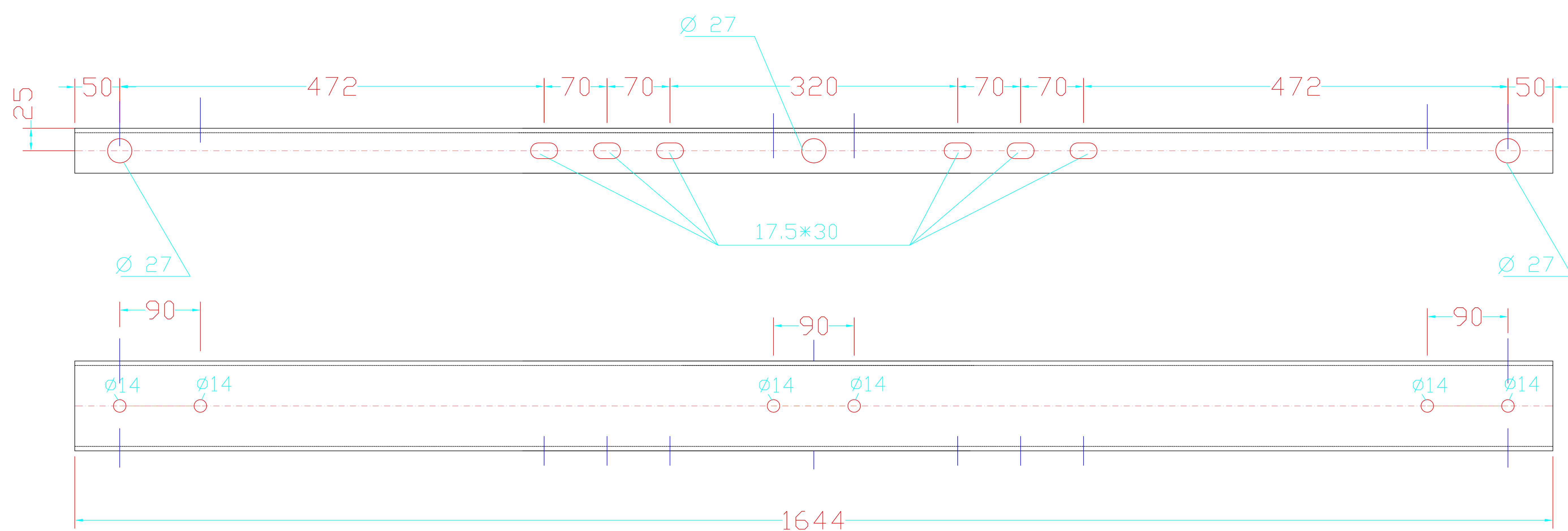
Prepared: Eng. ziad ALHoussaini

Checked By: Eng. Kamil Rabah

Hot Galvanized Auxilliary  
Steel Arm K160/3

Weight Kg	Unit mesurment mm	Description	Quant.
19	2200	CN° 8	1
Note: All component must be Steel RST37.2 hot dip galvanized			

K160/3\_B



شركة توزيع كهرباء محافظات غزة  
**GEDCo**

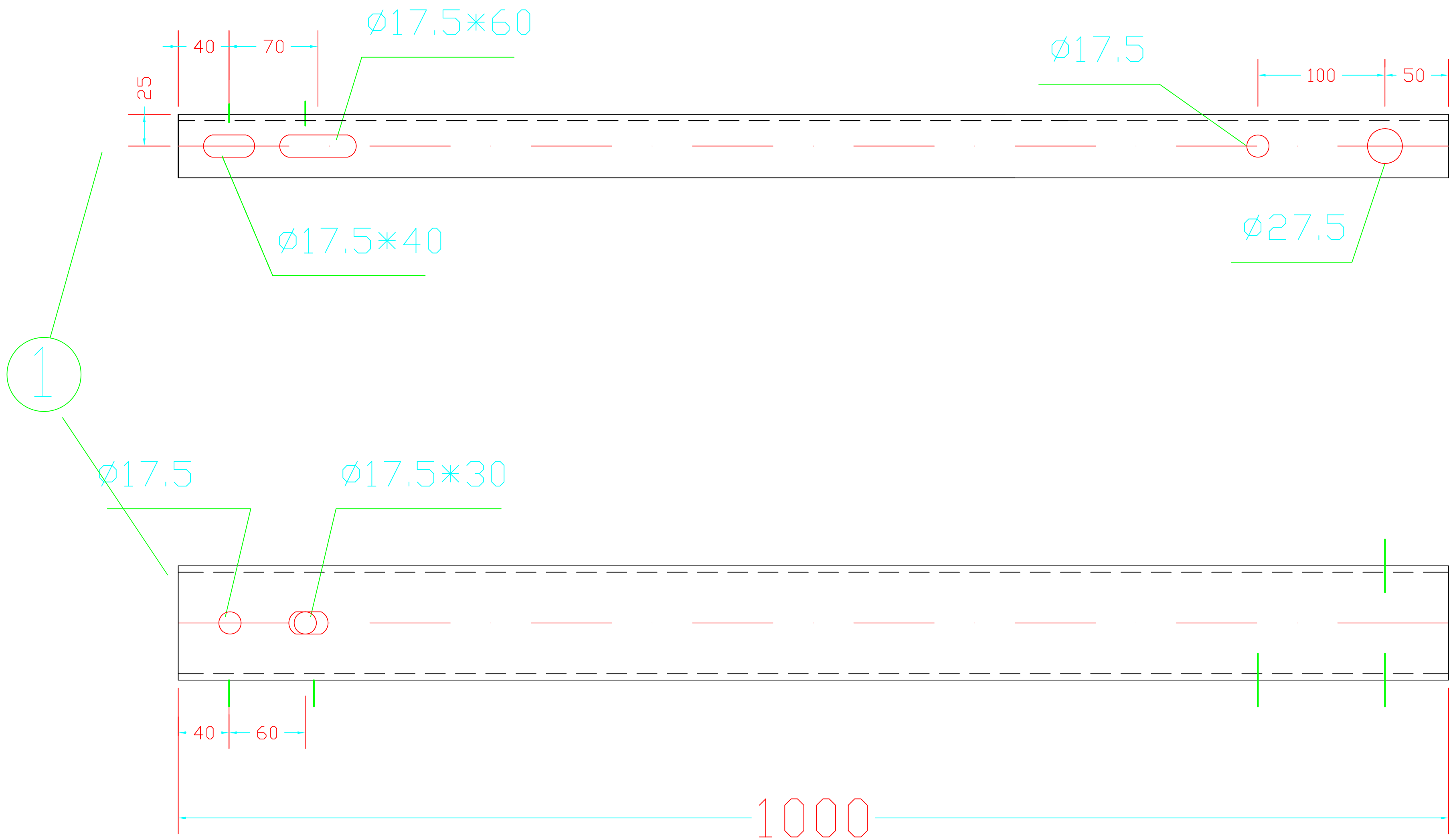
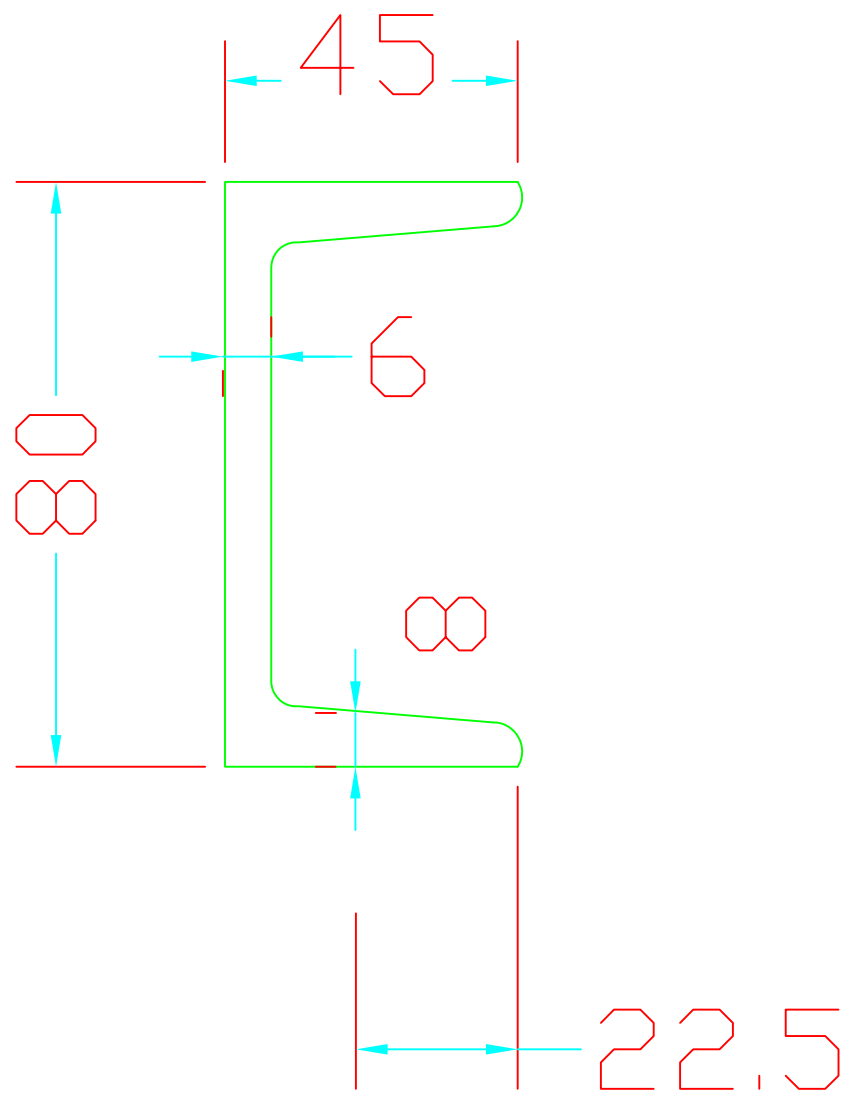
Prepared: Eng. ziad ALHoussaini

Hot Galvanized Auxilliary  
Steel Arm K160/3\_B

Weight Kg	Unit mesurment mm	Description	Quant.
	1644	CN° 8	1

Note: All component must be Steel RST37.2  
hot dip galvanized

CN° 8



Bolts Required for  
installation on  
the pole or Arm

- 2 UNC Bolt 5/8"\*40mm
- 2 square washer 5/8"

Note: All component must be Steel RST37.2  
hot dip galvanized

Weight Kg	Unit mm mesurment	Description	Quant.
8.6	1000	CN° 8	1

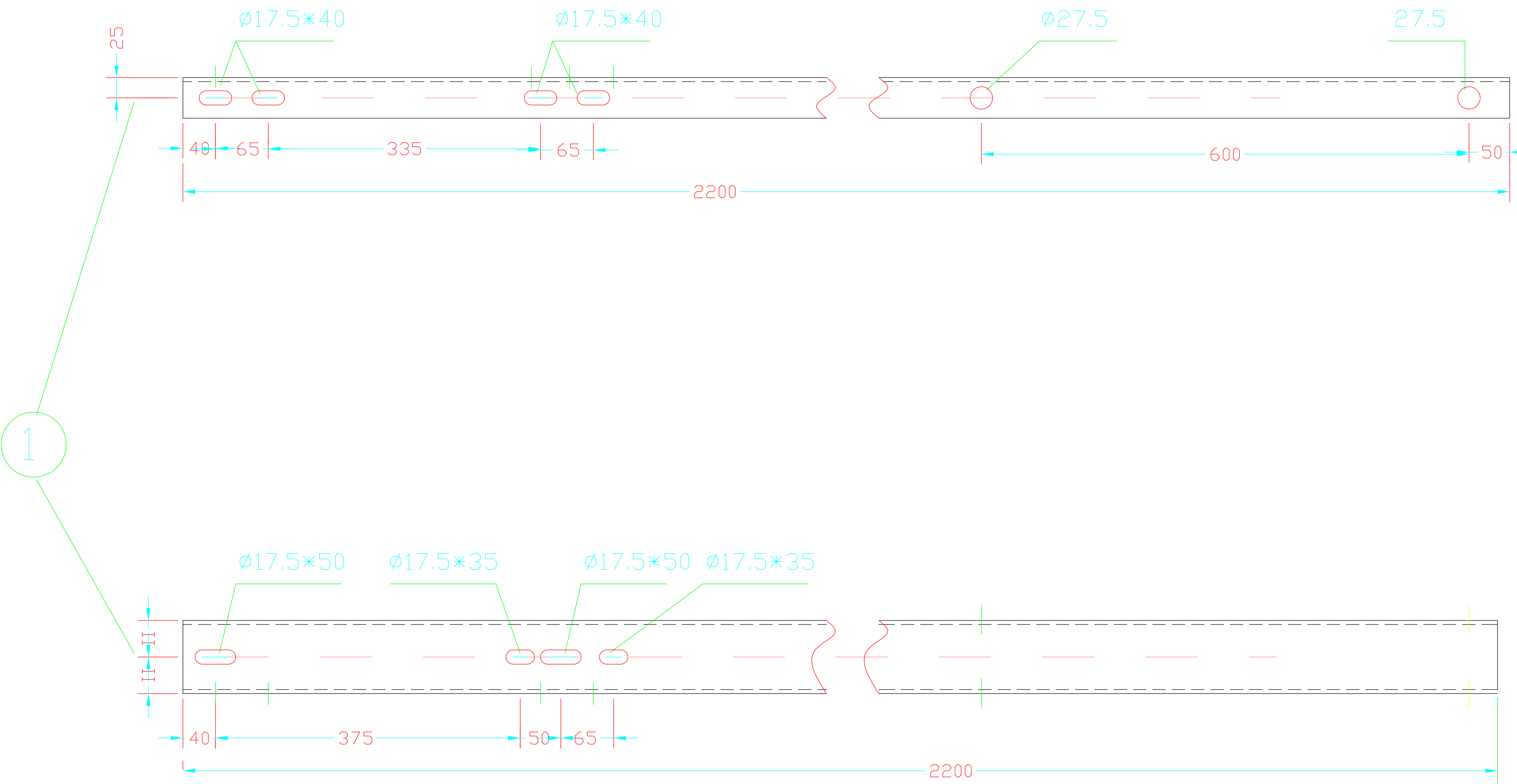
Hot Galvanized Auxilliary  
Steel Arm K166/1



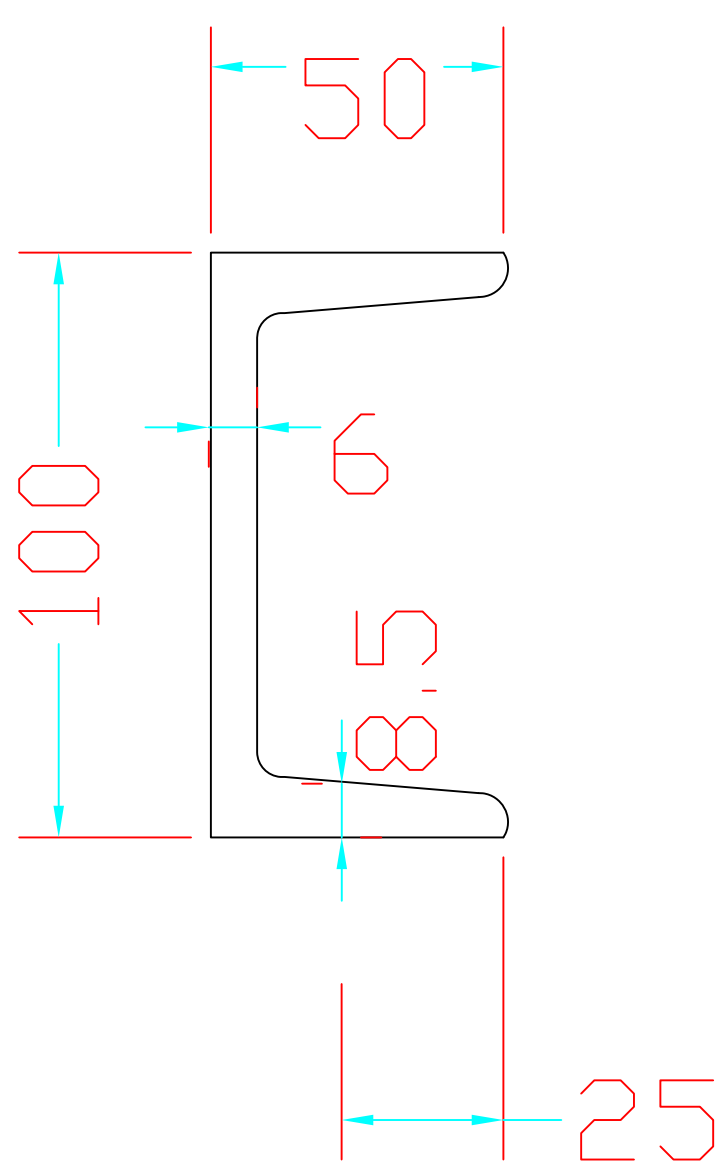
شركة توزيع كهرباء محافظات غزة  
**GEDCo**

Prepared:Eng. ziad ALHoussaini





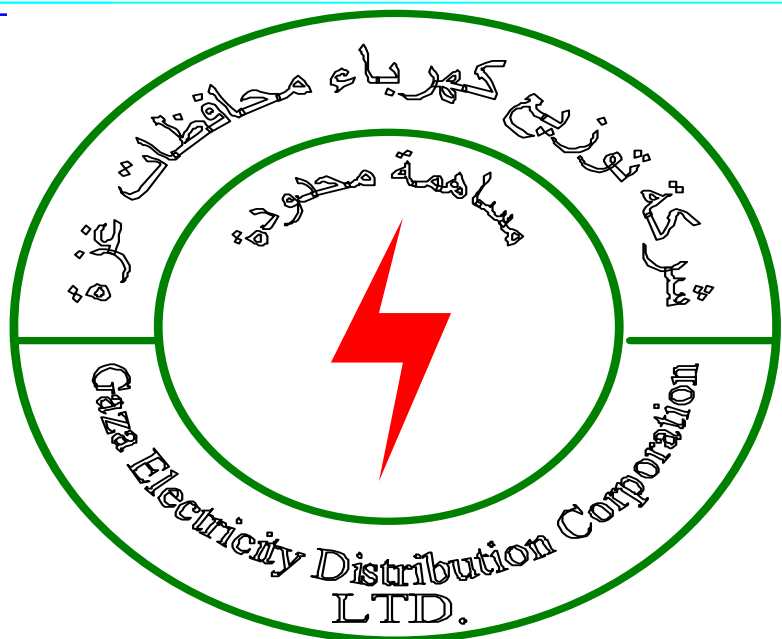
CN 10



Bolts Required for  
installation on  
the pole or Arm

- 2 UNC Bolt 5/8"×40mm
- 2 square washer 5/8"

Note: All component must be Steel ST37.2  
hot dip galvanized



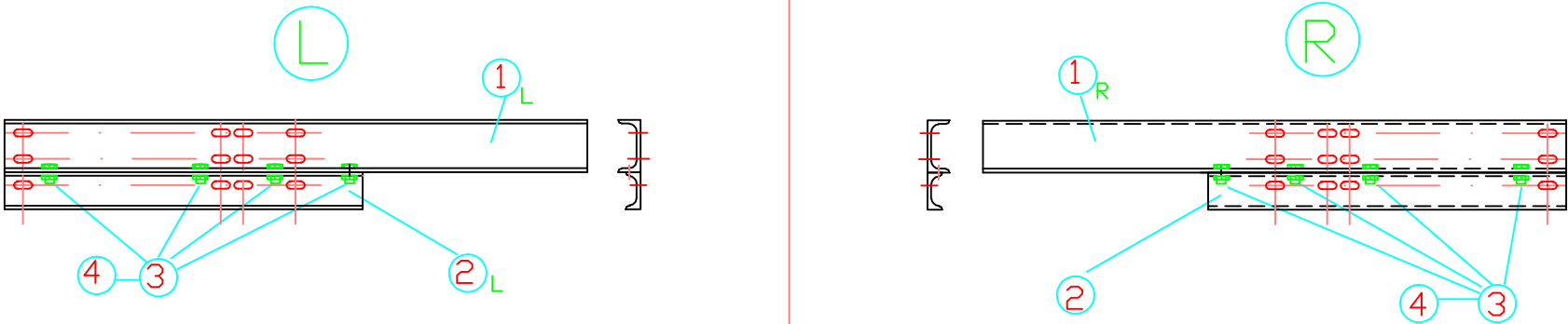
شركة توزيع كهرباء محافظات غزة  
**GEDCo**

Prepared:Eng. ziad ALHoussaini

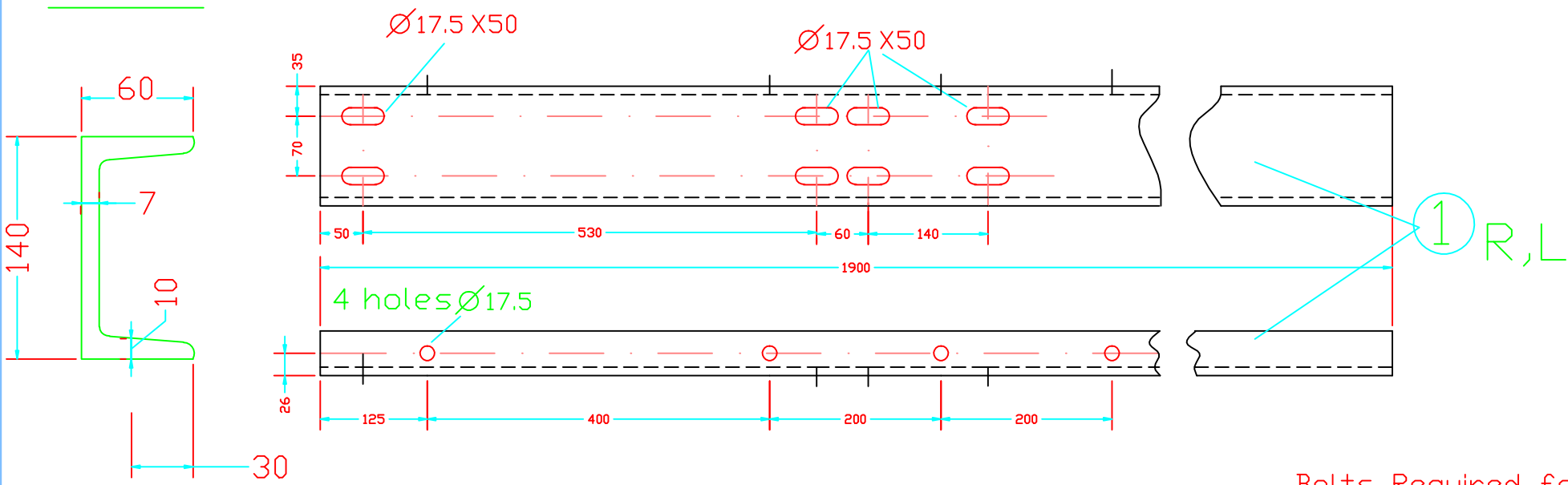
Weight Kg	Unit mm mesurment	Description	Quant.
23.3	2200	CN° 10	1

Hot Galvanized Auxilliary  
Steel Arm K167

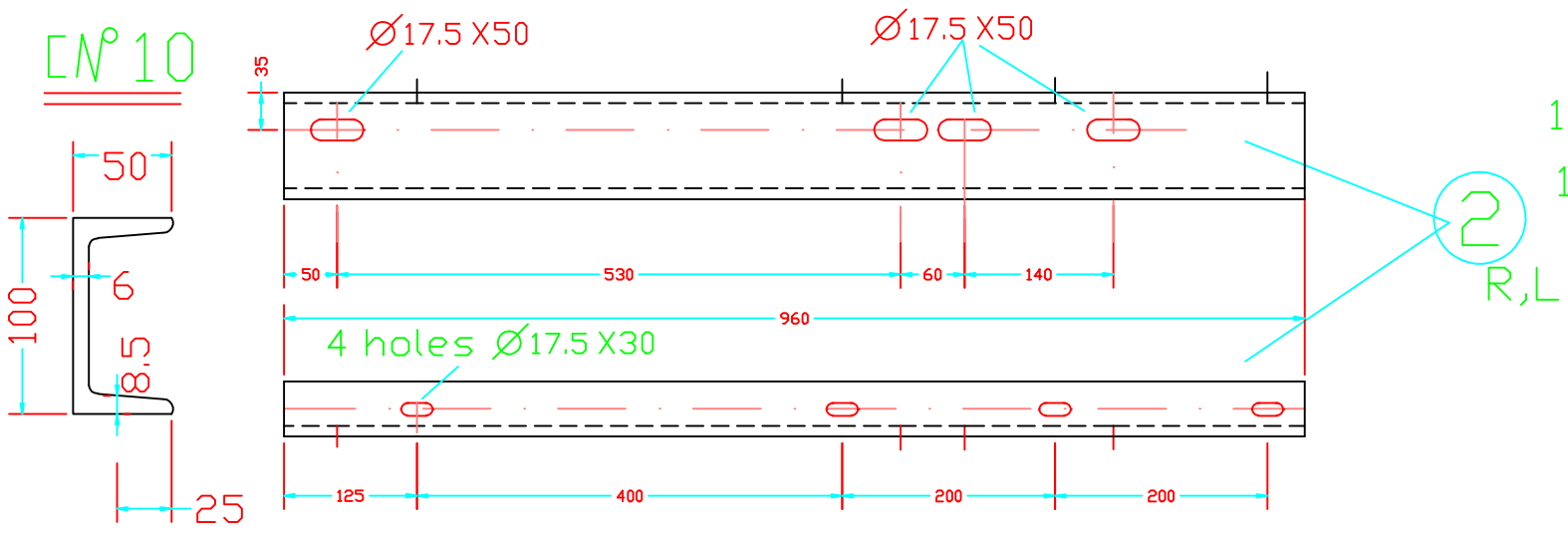
K183



CN° 14

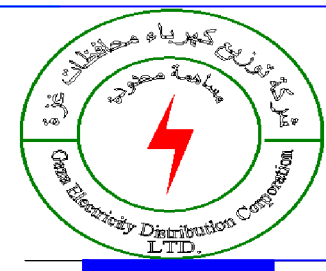


CN° 10



Bolts Required for installation on the pole  
12 UNC Bolt 5/8"\*35mm  
12 square washer 5/8"

Nots: All component must be Steel RST37.2 hot dip galvanized

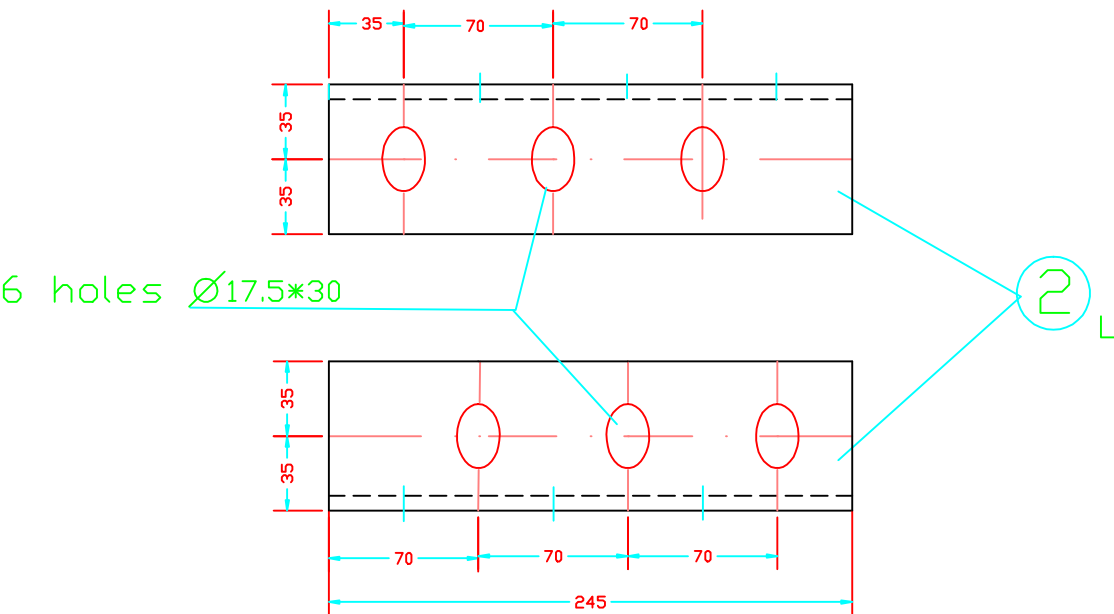
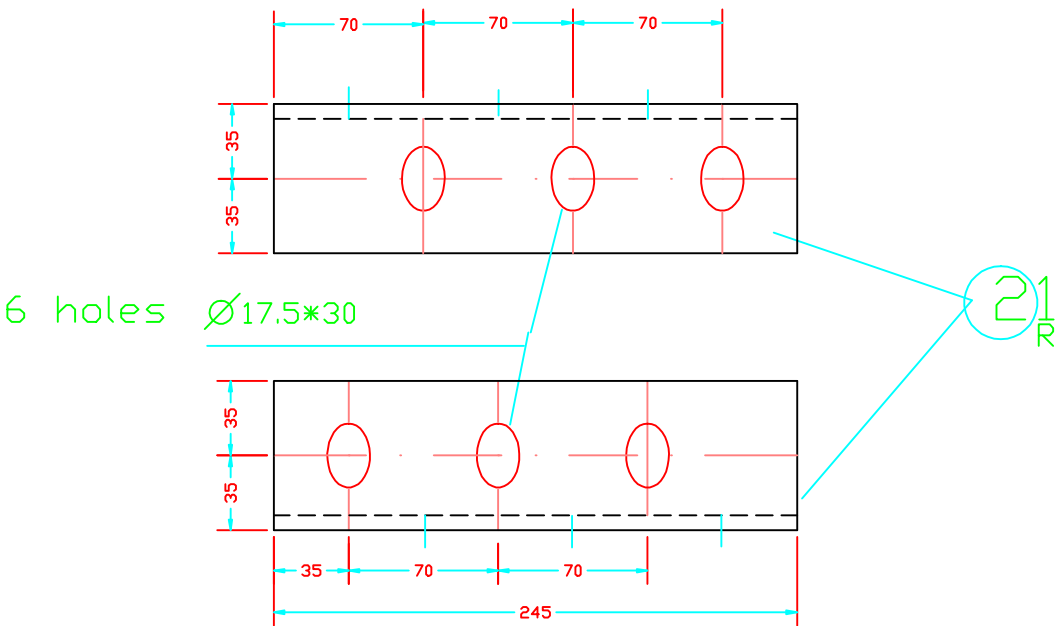


شركة توزيع كهرباء محافظات غزة  
GEDCO  
Prepared: Eng. ziad ALHoussaini  
Checked By: Eng. Kamil Rabah

Transformer Arm  
K183

Weight Kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant
60.7	3800	1900	CN° 14	1	1+1
20.3	1920	960	CN° 10	2	1+1
			UNC Bolt 5/8"*45	3	8
			washer 5/8"	4	8

81 k.g Total Weight



Bolts Required for  
installation on  
the pole

12 UNC Bolt 5/8"\*35mm

12 square washer 5/8"

Nots: All component must be Steel 37.2  
hot dip galvanized



شركة توزيع كهرباء محافظات غزة  
**GEDCO**

Prepared: Eng. ziad ALHoussaini

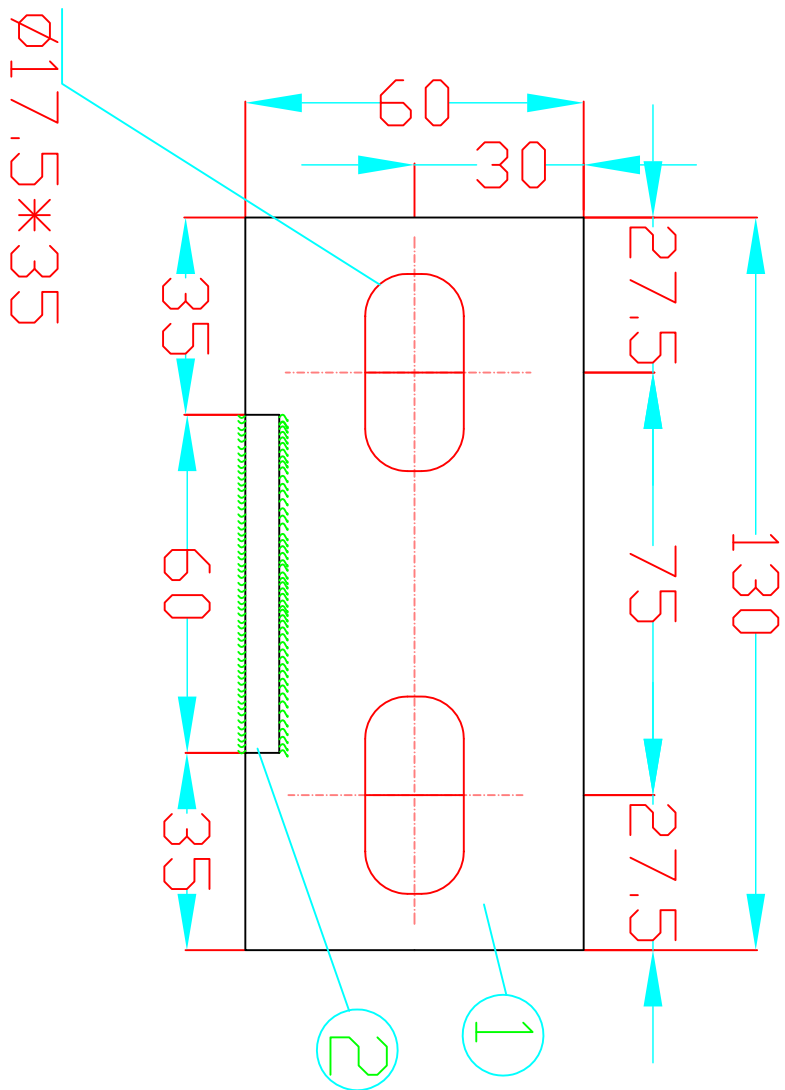
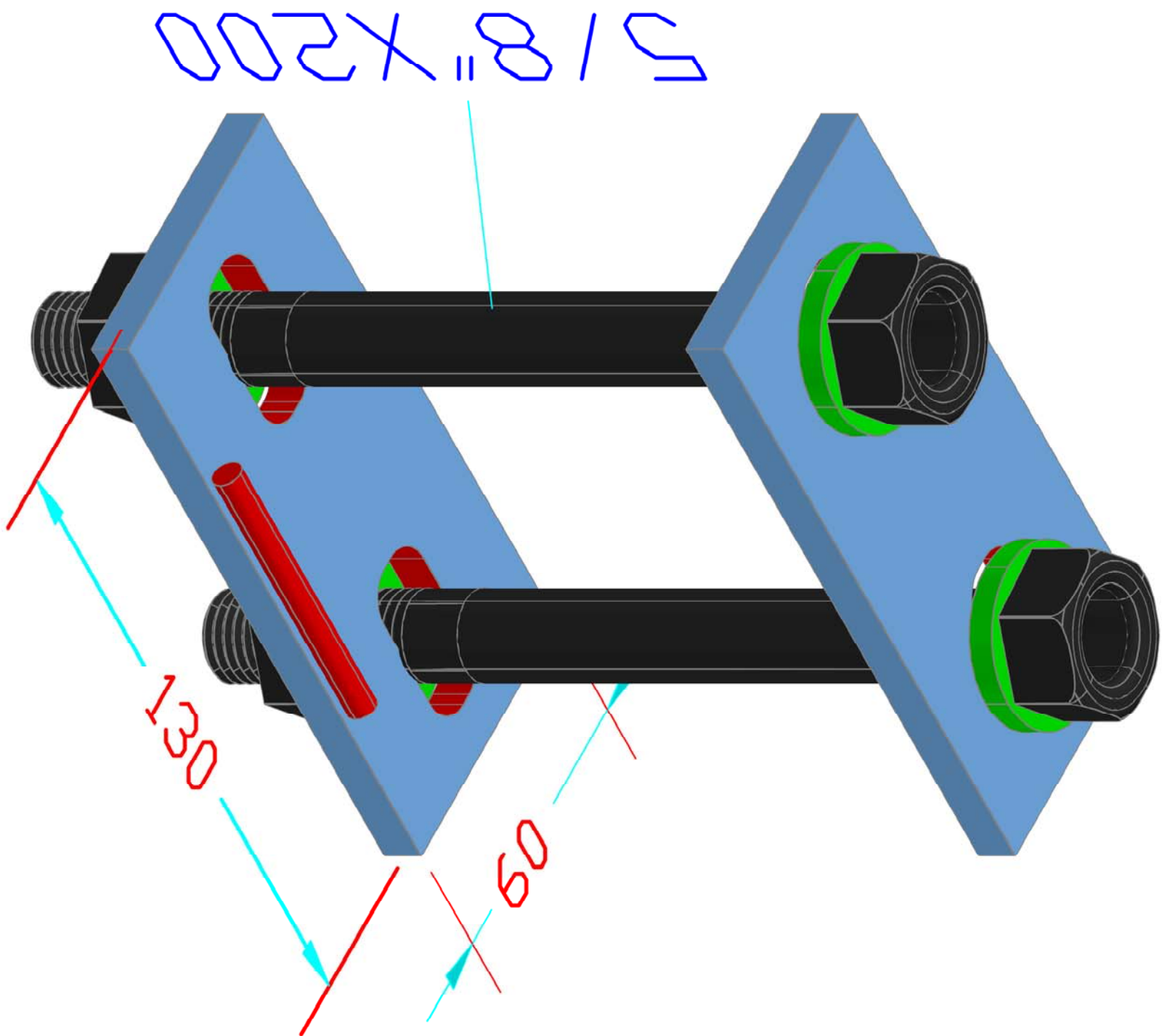
Checked By: Eng. Kamil Rabah

Auxiliary Transformer Steel  
Angles K183/1

زوايا تحويل

Wiegth kg	Total mm mesurment	Unit mm mesurment	Description	Quant	Item
3.6	490	245	L70*70*7	2	2L
3.6	490	245	L70*70*7	2	2R
7.2	Total Weight				

K1888



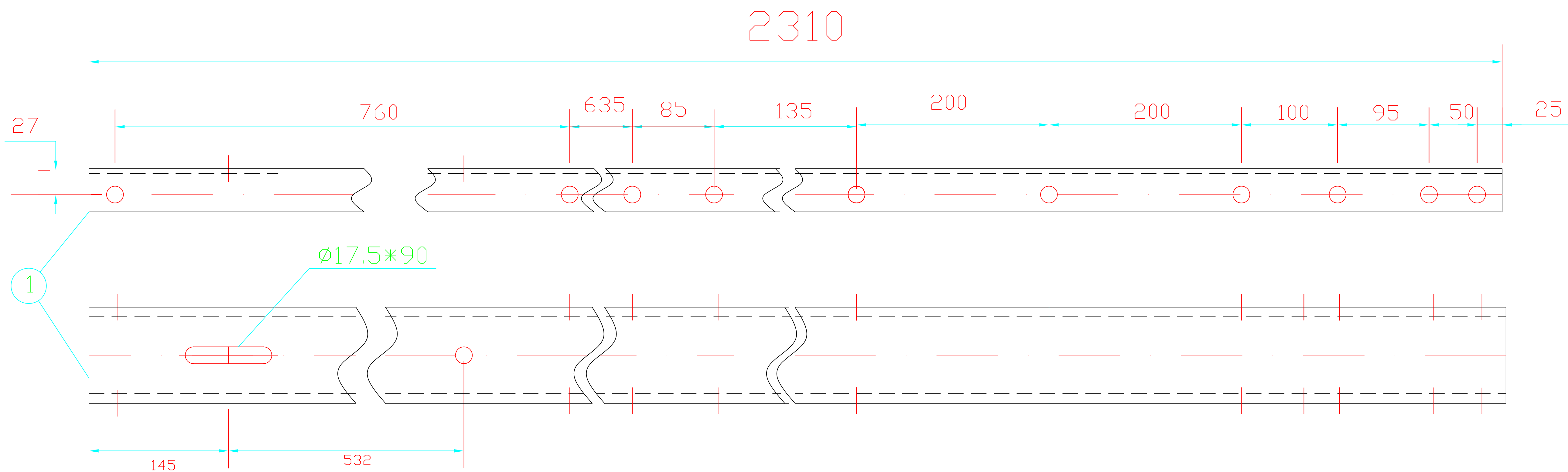
Total mm mesurement	Unit mm mesurement	Description	Item	Quant.
260	130	Plate $\square 60 \times 8$	1	2
120	60	$\varnothing 6$	2	2
	200	UNC Bolt 5/8"	3	2

Notes: All component must be Steel 37.2  
hot dip galvanized

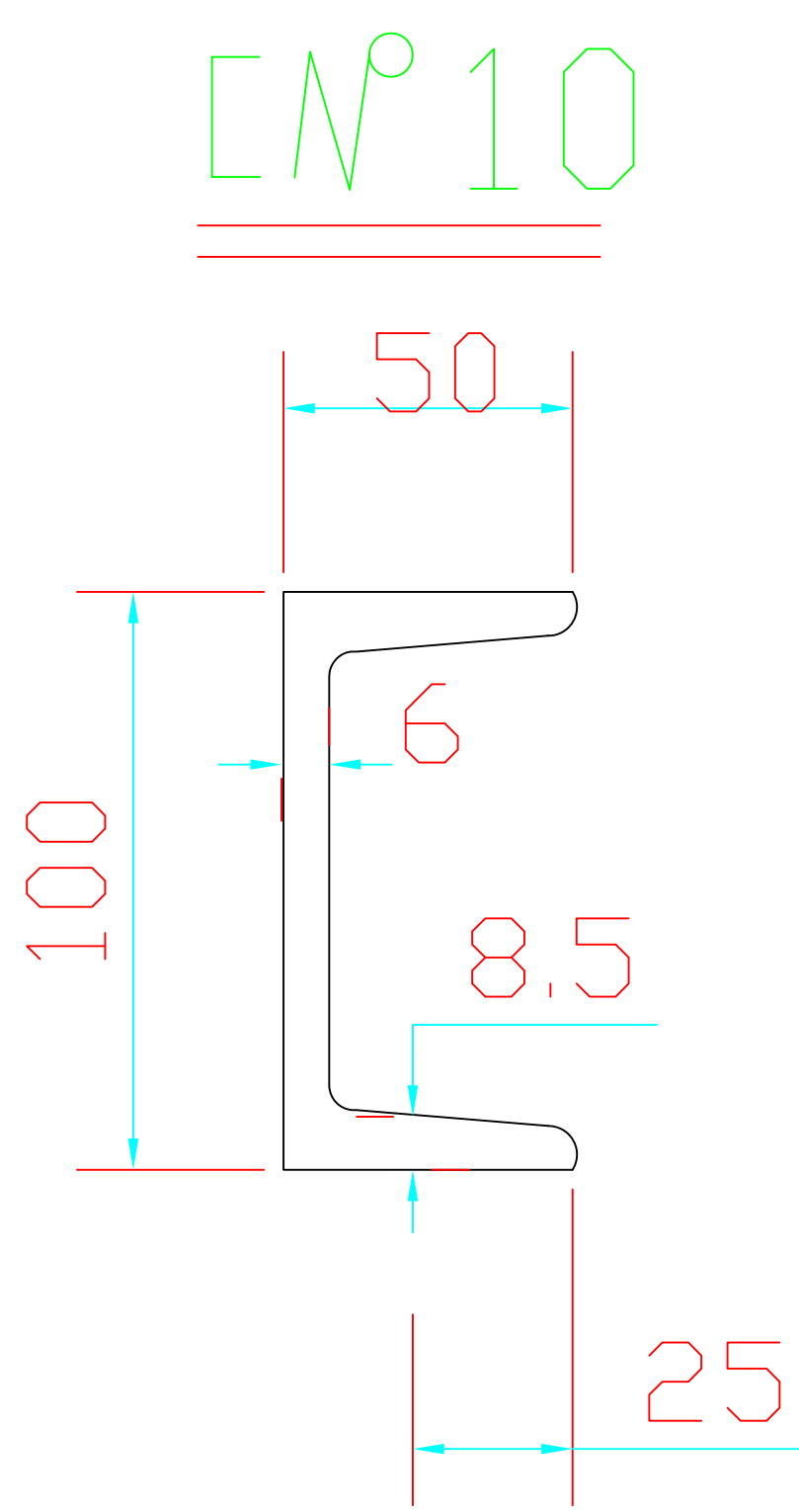
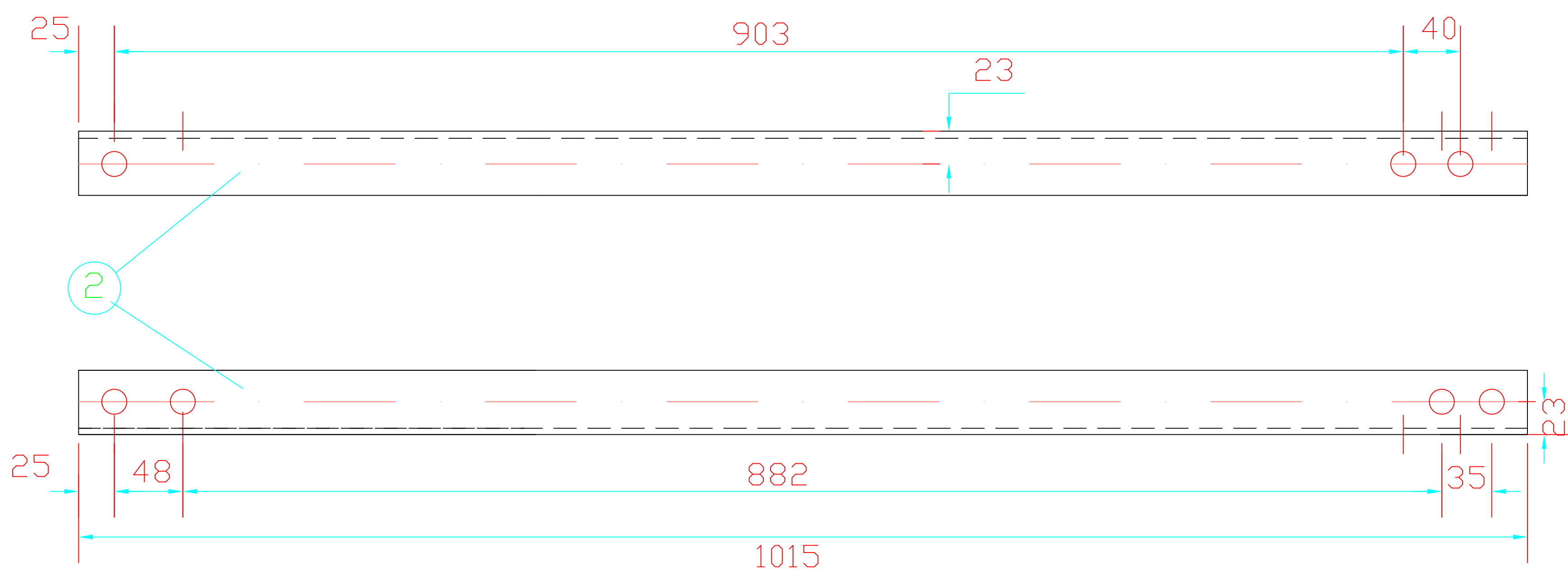
Transformer Clamp

K188





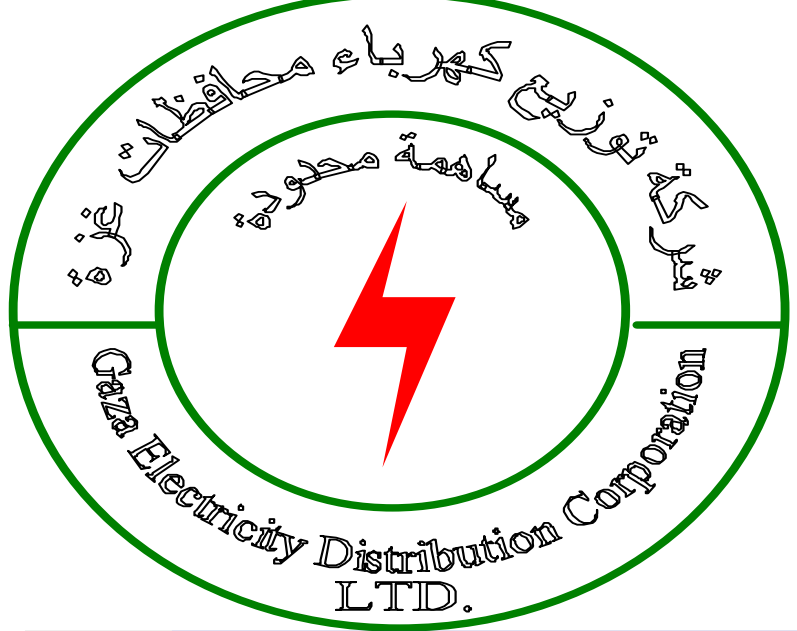
All the holes is  $\phi 17.5$



Bolts Required for  
installation on  
the pole

- 12 UNC Bolt  $5/8" \times 35\text{mm}$
- 10 Ring washer  $5/8"$
- 2 square washer  $5/8"$

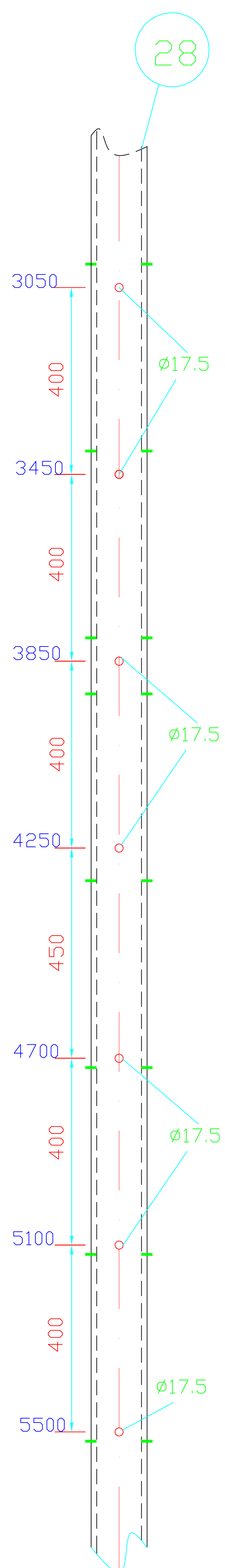
Note: All component must be Steel 37.2  
hot dip galvanized

<div><p>شركة توزيع كهرباء محافظات غزة مساهمة مسجلة Gaza Electricity Distribution Corporation LTD.</p><p>شركة توزيع كهرباء محافظات غزة <b>GEDCO</b></p><p>Prepared: Eng. ziad ALHoussaini</p><p>Checked By: Eng. Kamil Rabah</p></div>	Hot Galvanized L.V Steel Pole Arm , K202	Weight K.g	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
		48	4620	2310	CN <sup>P</sup> 10	1	2
		13.6	4060	1015	Strut L45*45*5	2	4
		62k.g	Total Weight				

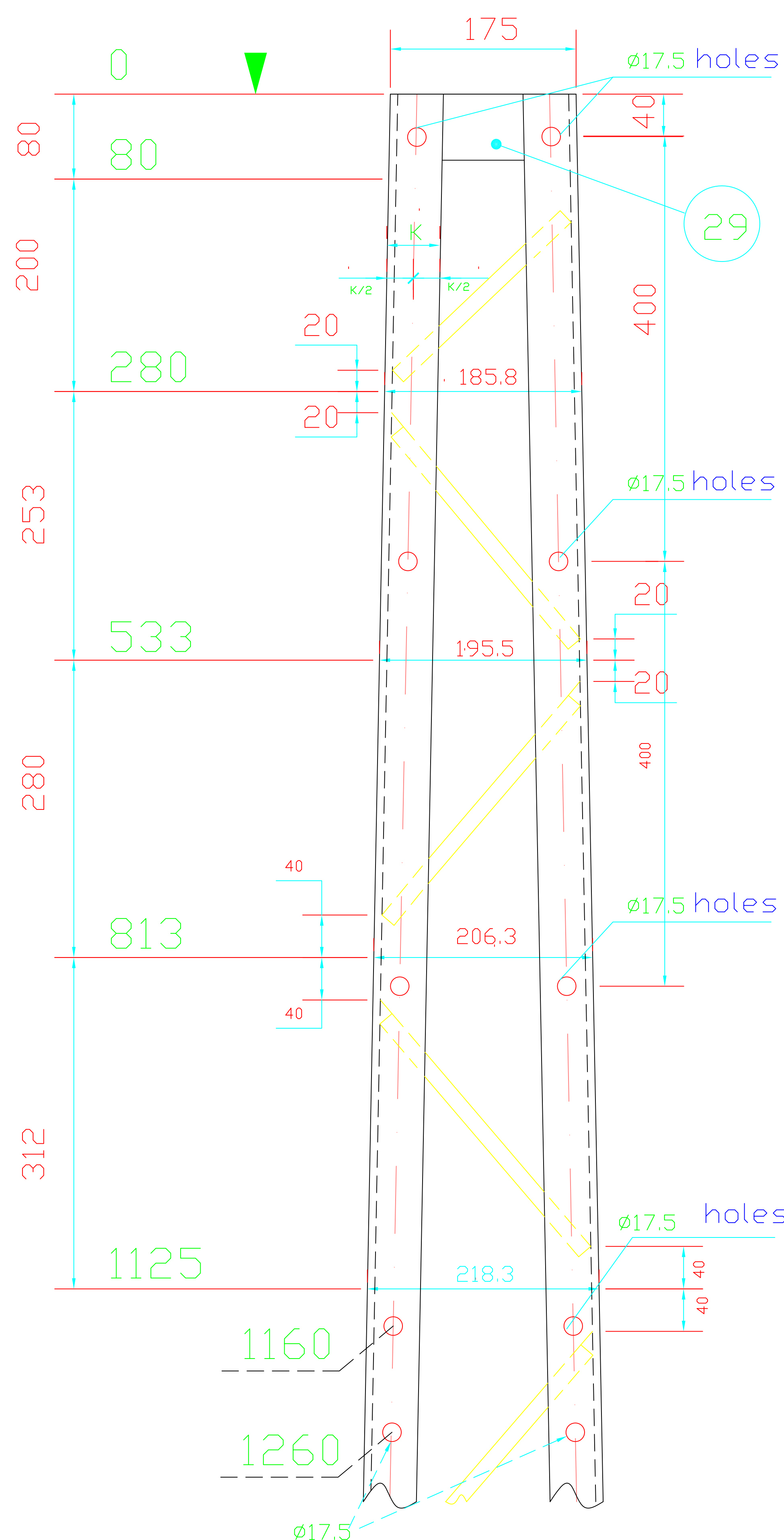


K 2 5 3

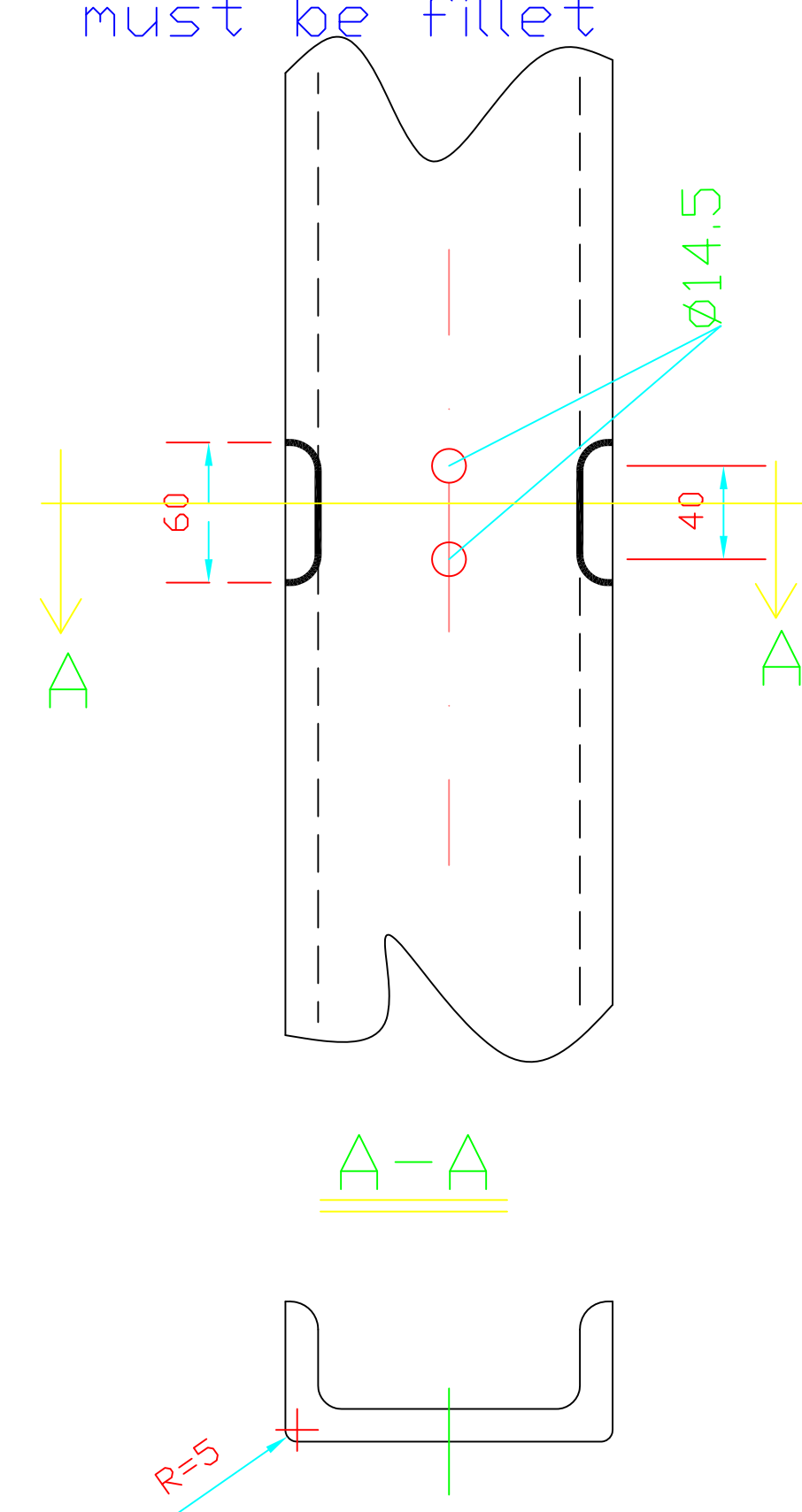
Stationing	Left Side Elevation	Right Side Elevation	Item No	Unit	Resurment
0	80	175	1	222	
200	280	185.8	2	249	
253	533	195.5	3	261	
280	813	205.3	4	278	
312	1125	218.3	5	295	
324	1260	230.8	6	314	
337	1449	243.8	7	332	
350	1786	257.2	8	352	
364	2000	271.3	9	372	
379	2136	285.9	10	394	
394	2280	301	11	416	
410	2500	316.8	12	439	
426	2879	333.2	13	463	
443	3000	350.3	14	487	
460	3273	368	15	513	
478	3683	386.4	16	539	
496	3800	405.5	17	566	
515	3920	425.3			



Head of the pole  
and location of trusses

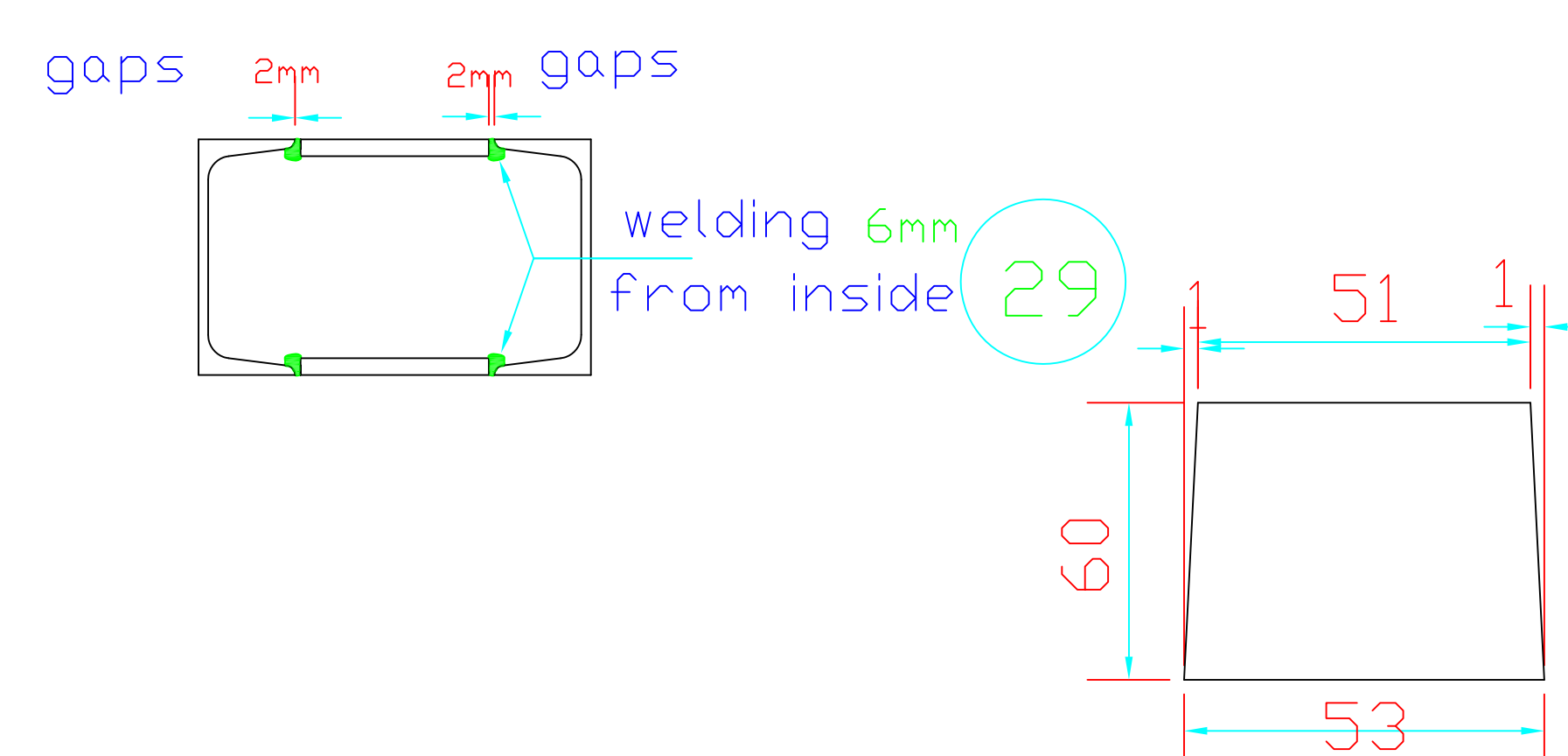
View [A](#)

The edge of angle must be fillet

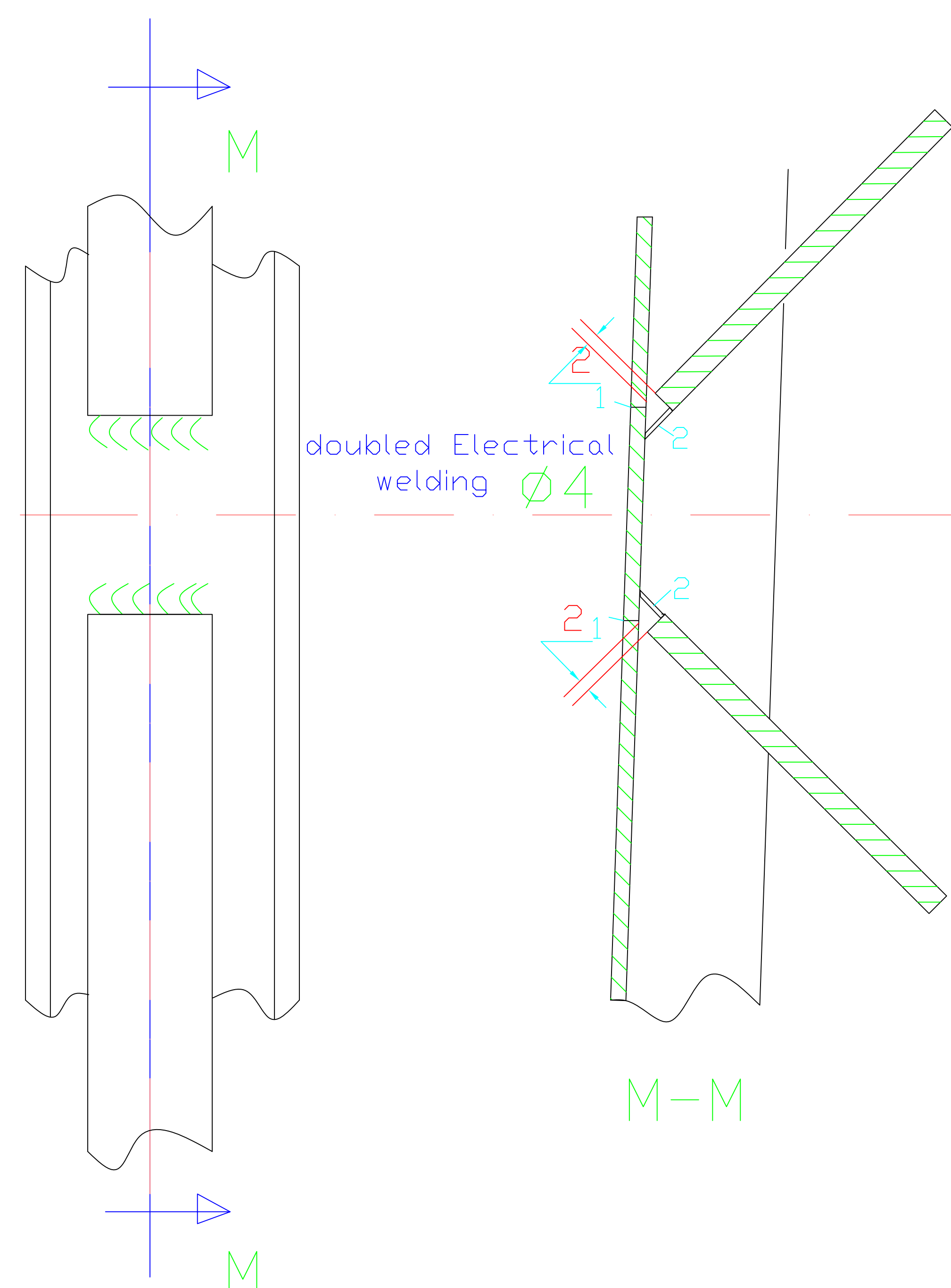


distance between  
Trusses from 3 to 27  
from main saide angle  
Is 40-40mm

All holes must fall  
between the trusses



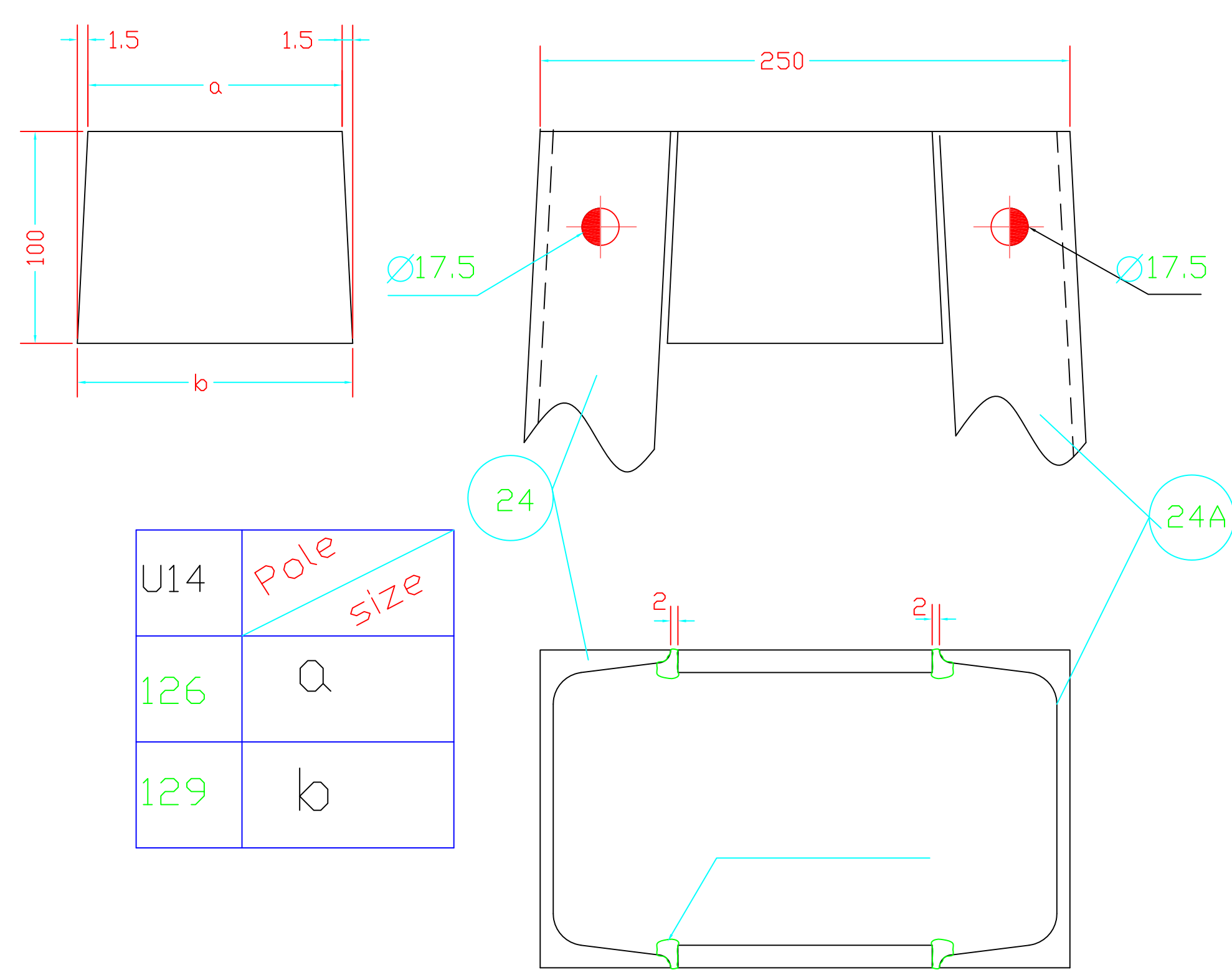
## Method of welding ribs



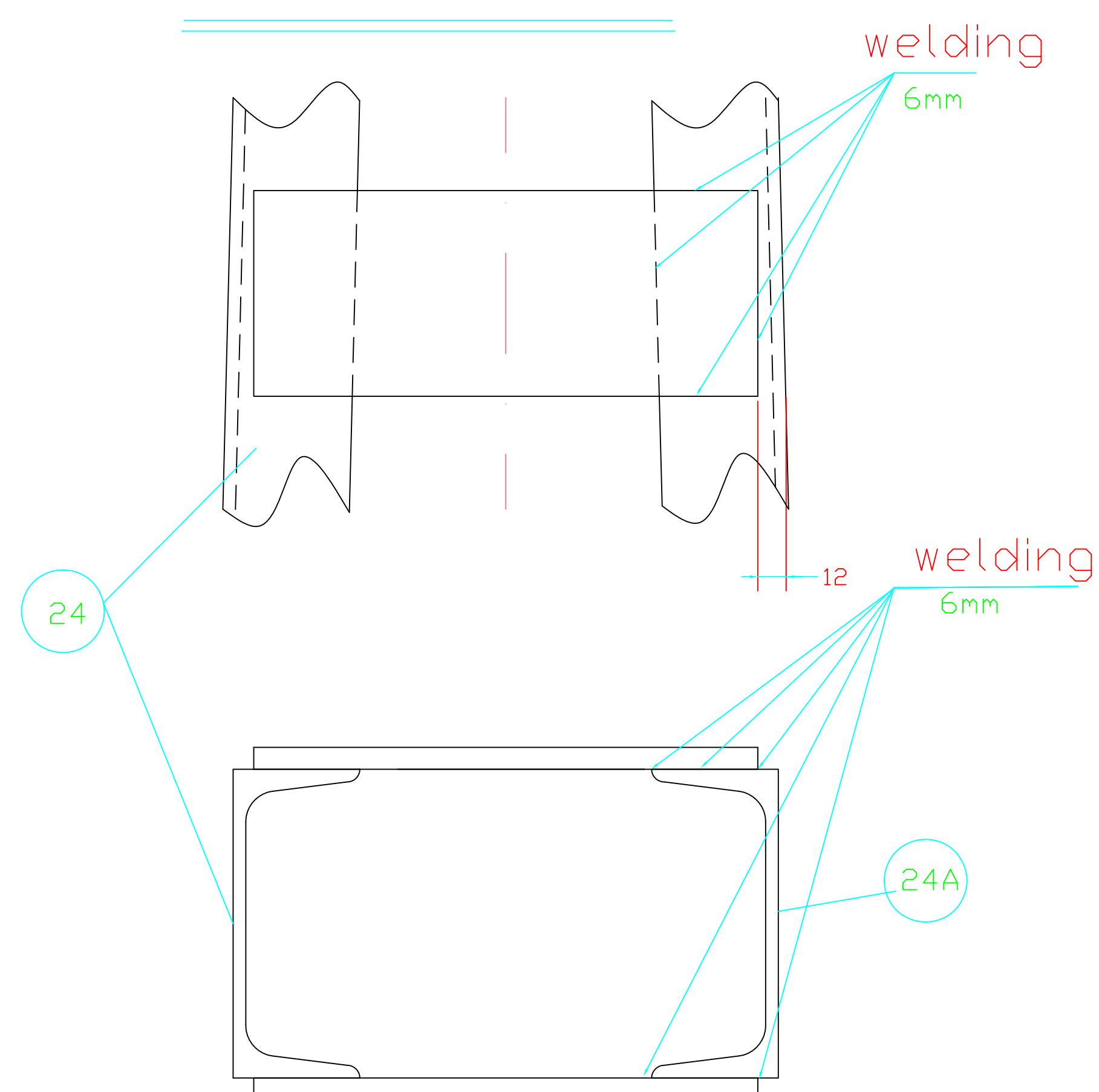




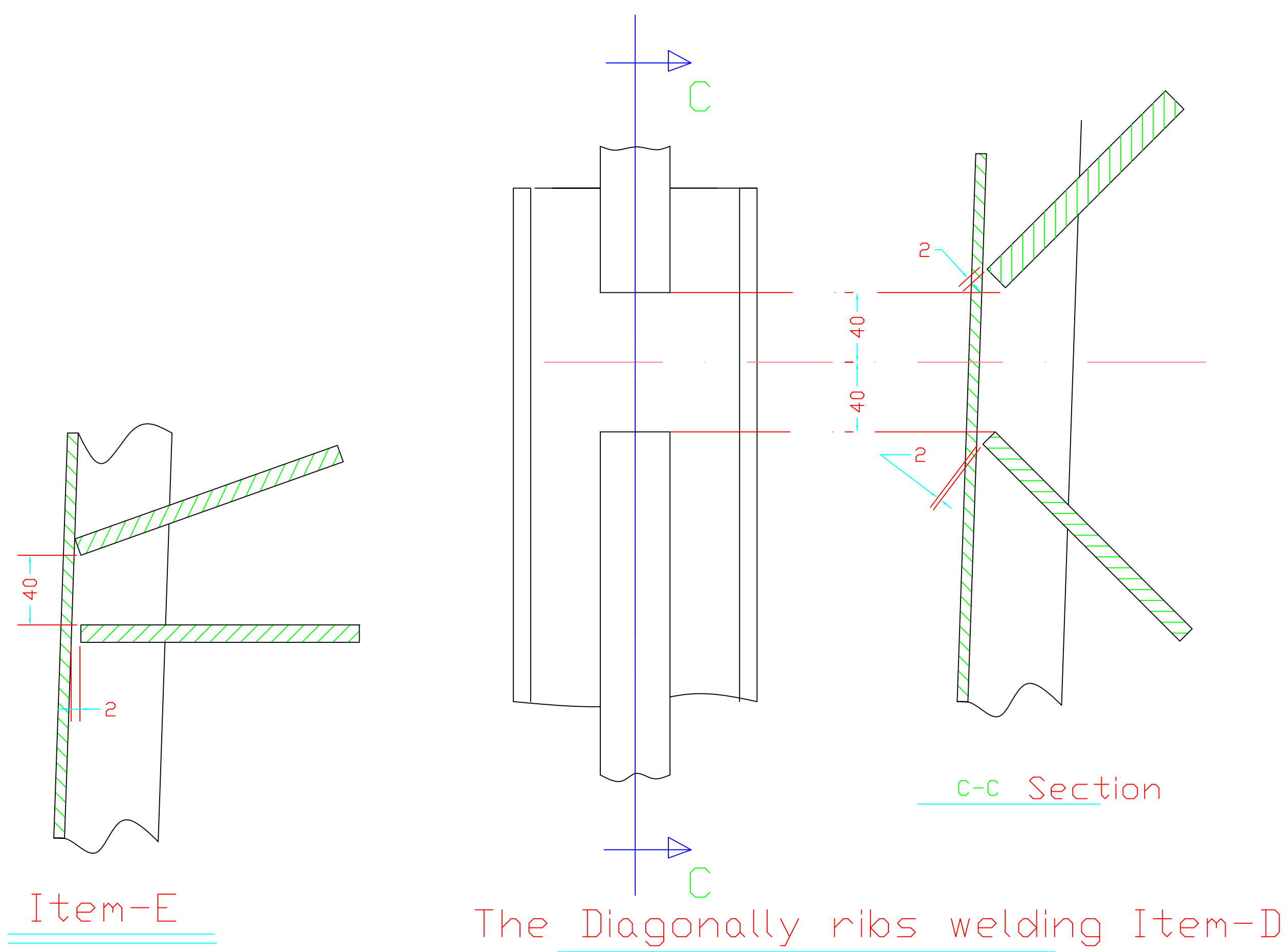
K254\_14



Pole head- item A

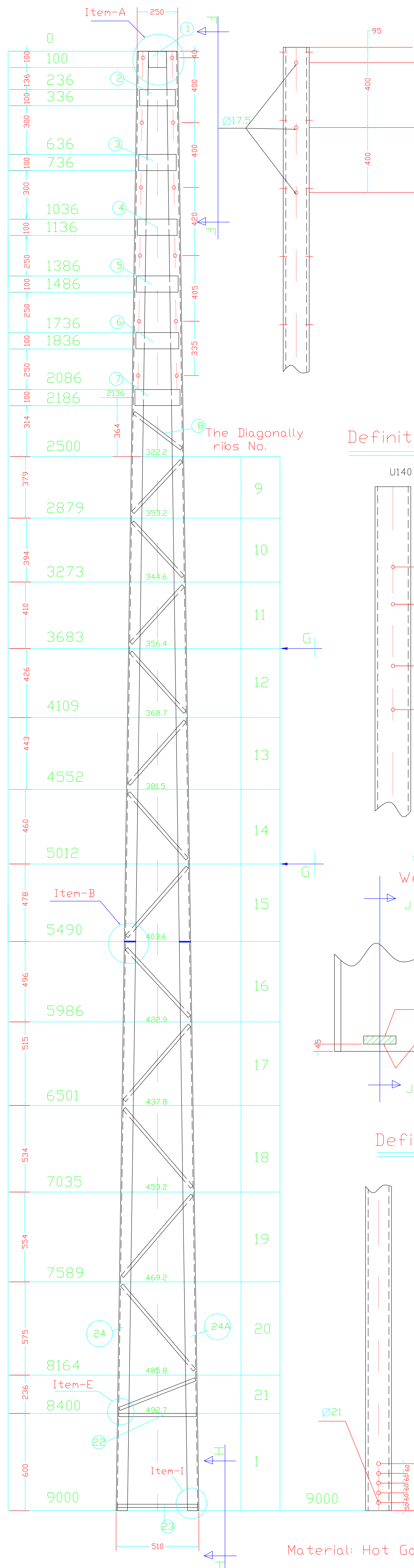
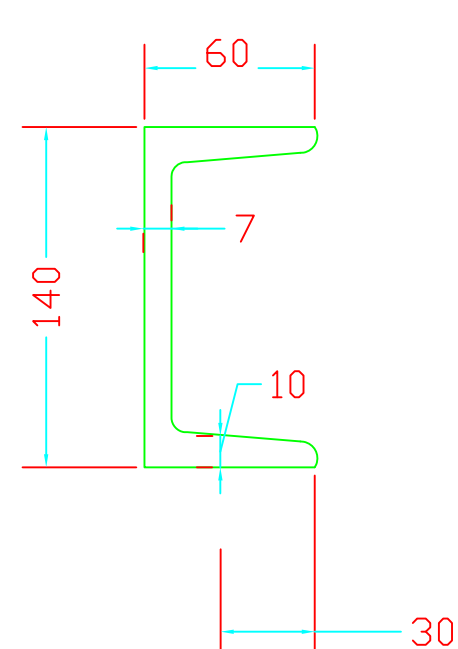


## Steel Sheets Welding-Item B

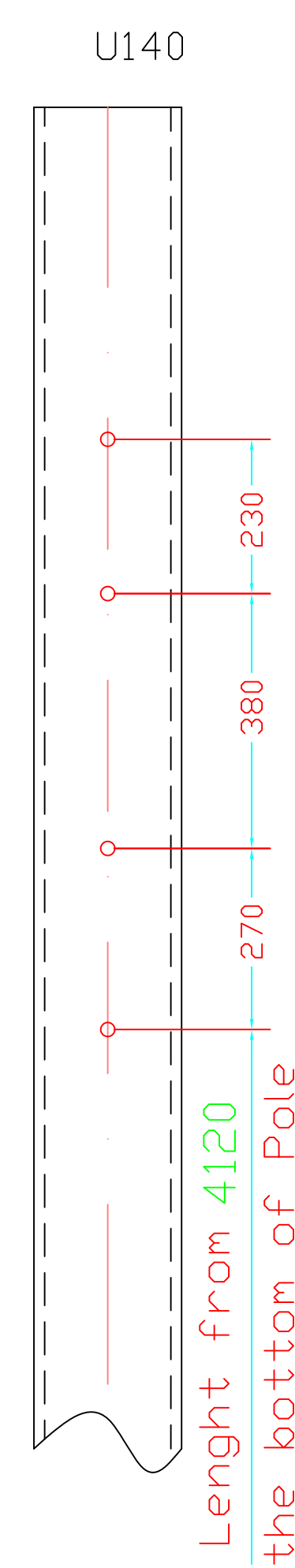


Item-E

№ 14

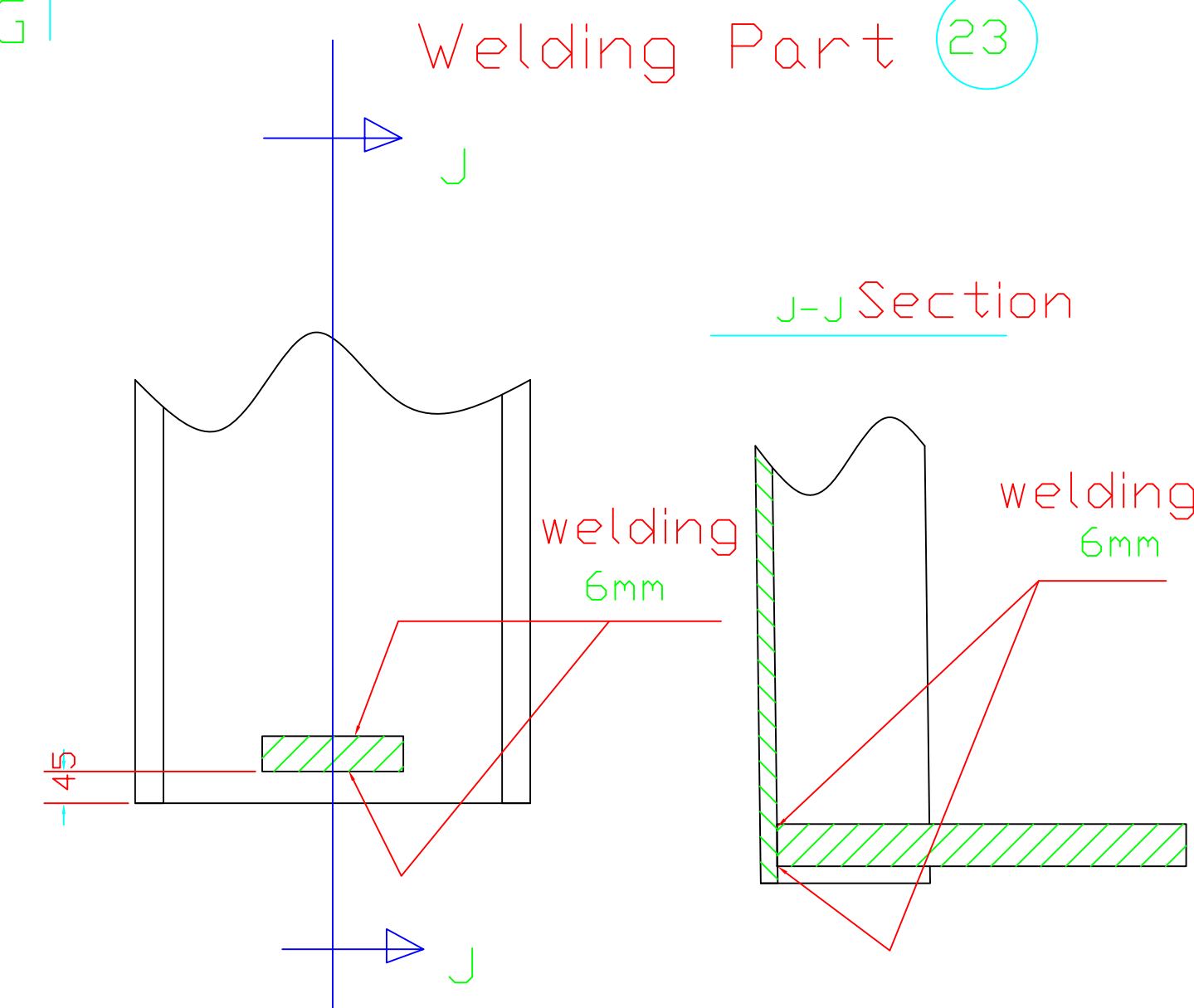


### Definition G-G



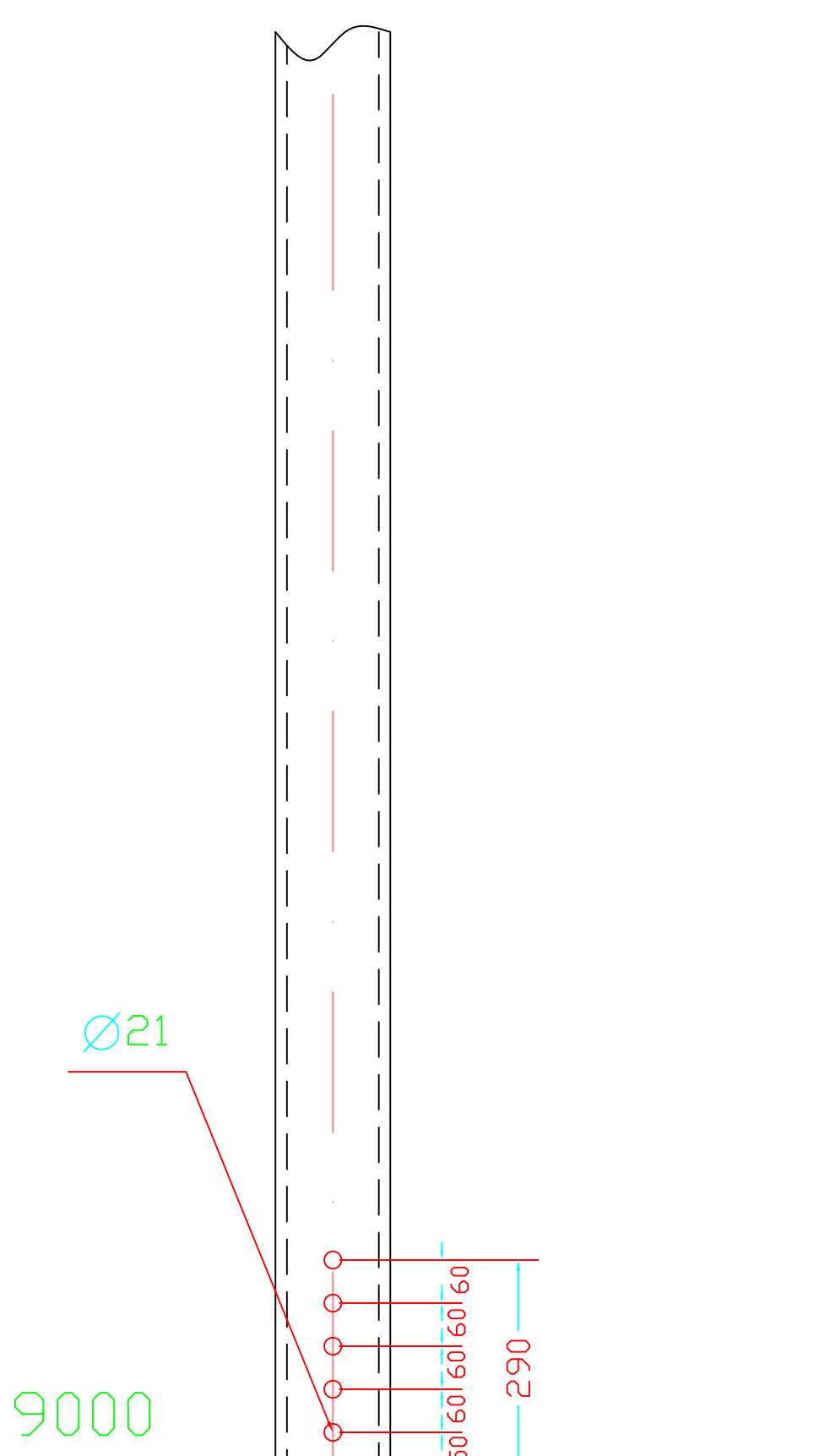
Item-I

Welding Part 23



## J-J Section

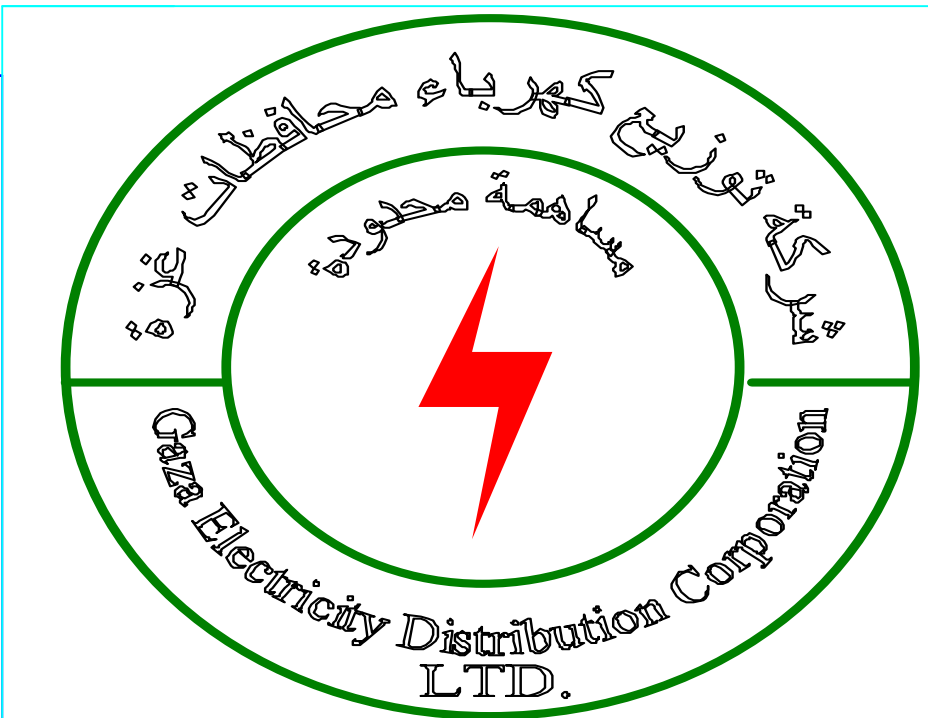
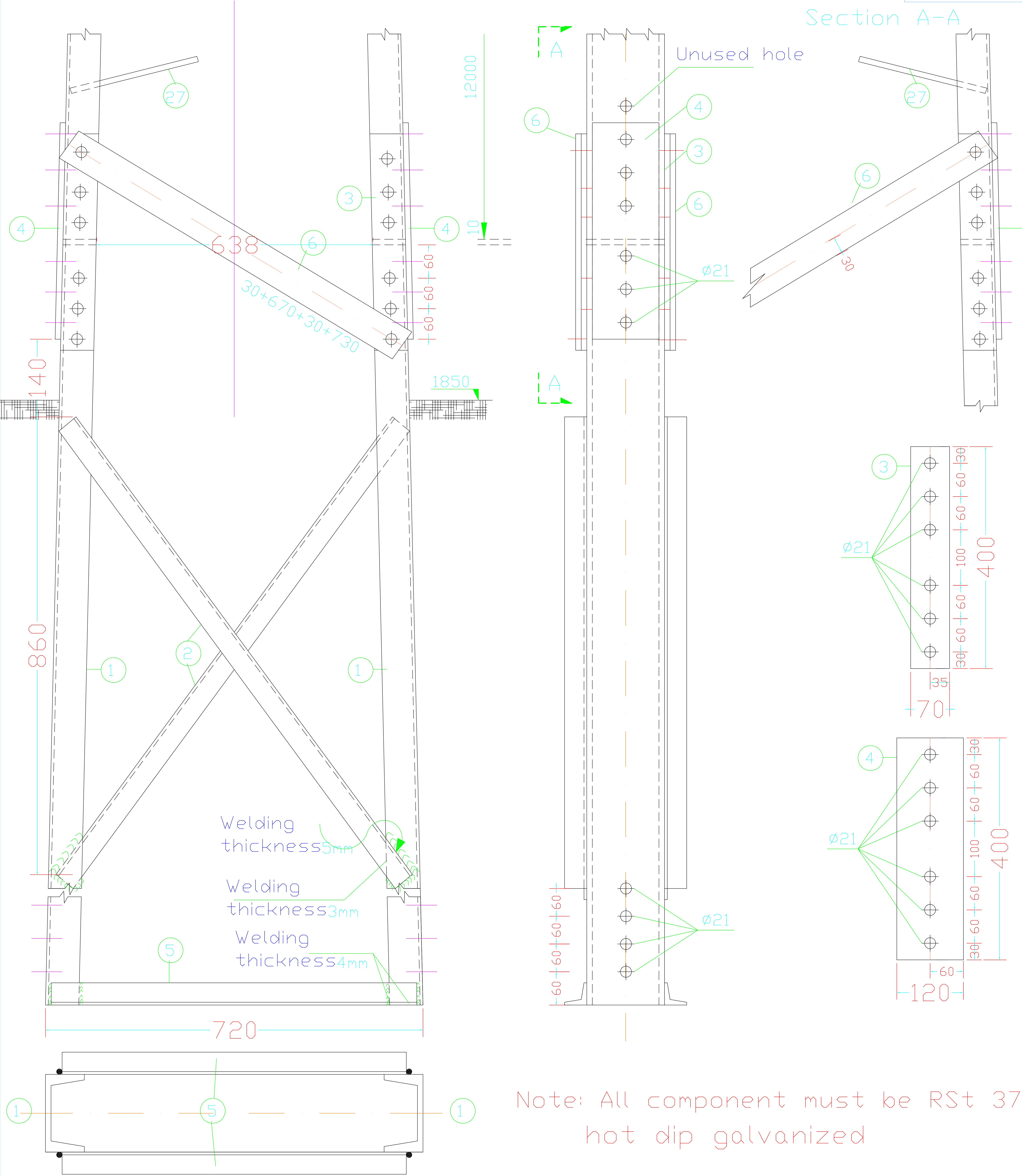
### Definition H-H



Material: Hot Galvanized Steel  
After hot galvanization pole must  
paint from down to 4.4m length  
with leady color paint in one level



Weight Kg	Total mm mm	unit mm	Description	Qty.	Item
20.25	258	129	100x100	2	1
3.71	472	236	100x100	2	2
3.88	494	247	100x100	2	3
4.06	518	259	100x100	2	4
4.22	538	269	100x100	2	5
4.38	558	279	100x100	2	6
4.53	578	289	100x100	2	7
40.19	7315		70x100	1x14	8-21
2.6	475	475	70x100	1	22
2.7	496	496	70x100	1	23
288.0	9000	9000	EW 14	1+1	24,244
378.5	kg	Total Weight			



شركة توزيع كهرباء محافظات غزة  
GEDCO

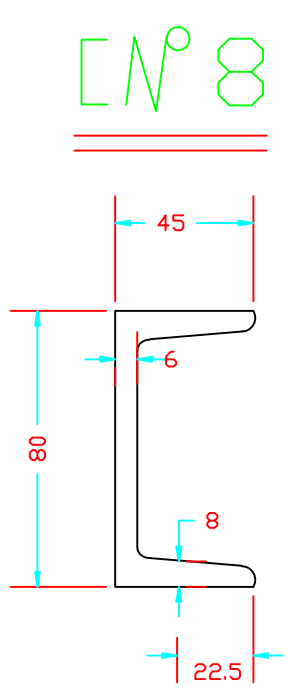
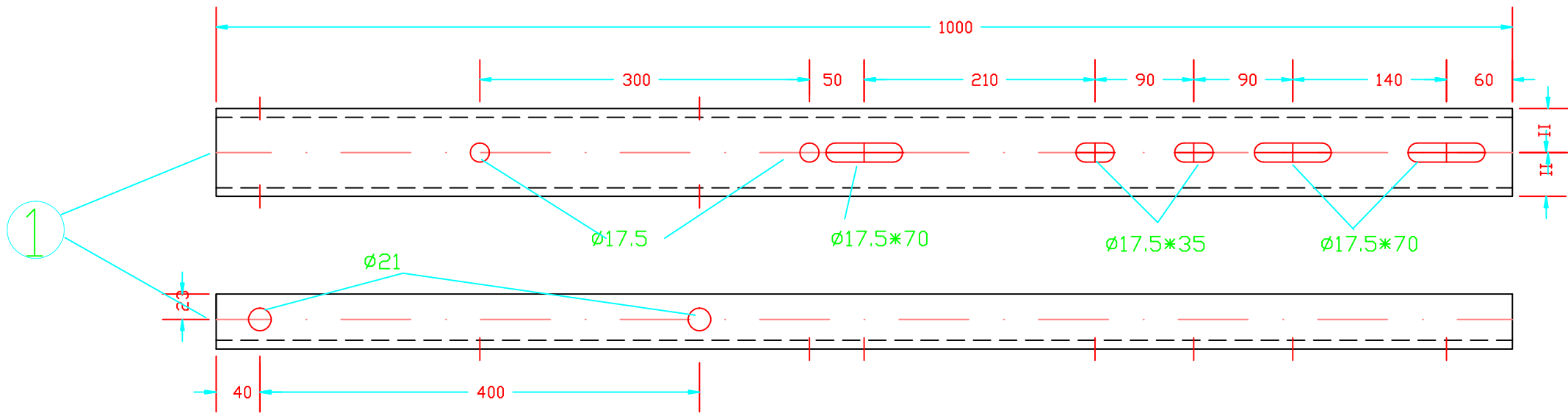
Prepared: Eng. ziad ALHoussaini

Checked By: Eng. Kamil Rabah

Steel Base  
2.15m long  
For C.S.P

Weight K.g	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
68.8	4300	2150	CSP 14	1	2
7.1	2104	1052	Strut L45*45*5	2	2
8.8	1600	400	Plate 70*10	3	4
7.5	800	400	Plate 120*10	4	2
3.4	1400	700	Strut L40*40*4	5	2
5.5	1460	730	Plate 60*8	6	2
101 Kg Total Weight					

K271-100



Bolts Required for  
installation on  
the pole

- 2 UNC Bolt 5/8"\*40mm
- 2 square washer 5/8"

Note: All component must be Steel 37.2  
hot dip galvanized



شركة توزيع كهرباء محافظات غزة  
**GEDCO**

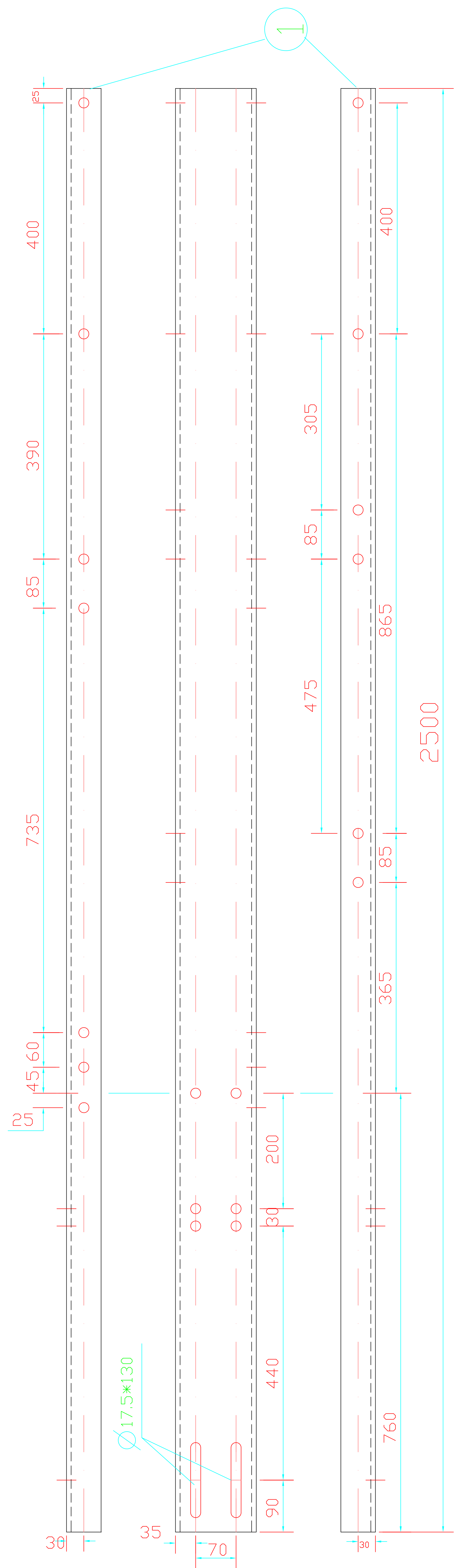
Prepared:Eng. ziad ALHoussaini

Checked By:Eng. Kamil Rabah

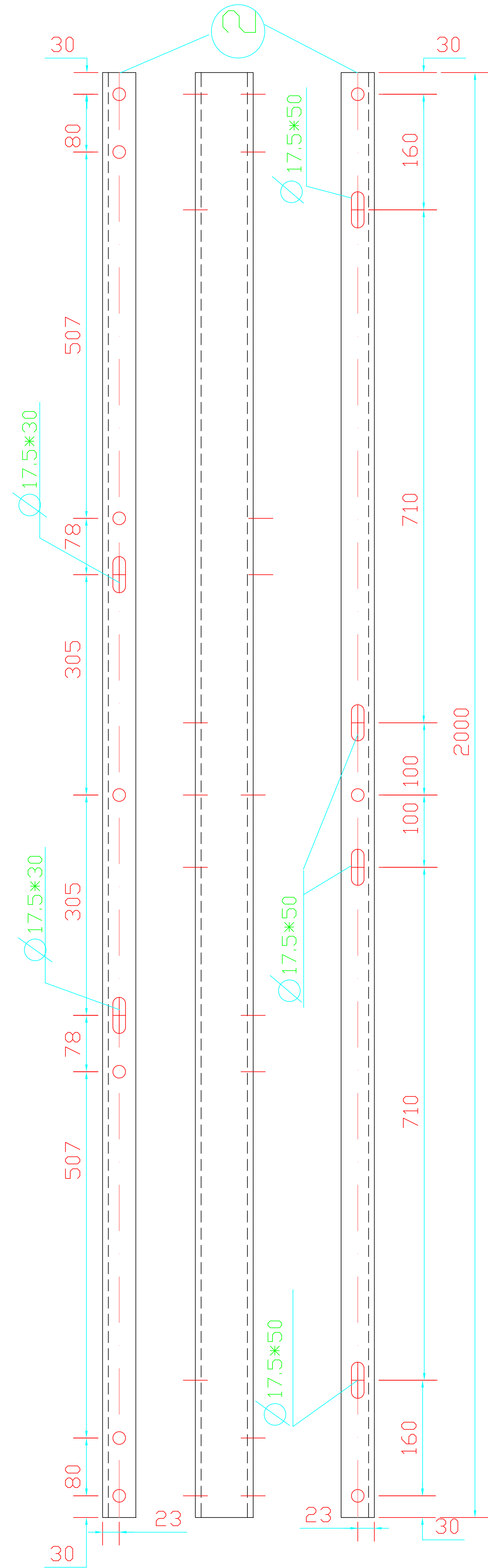
Hot Galvanized  
L.V Steel Pole Arm  
100cm Long , Single

Weight K.g	Unit mm mesurment	Description	Quant.
9	1000	CN 8	1



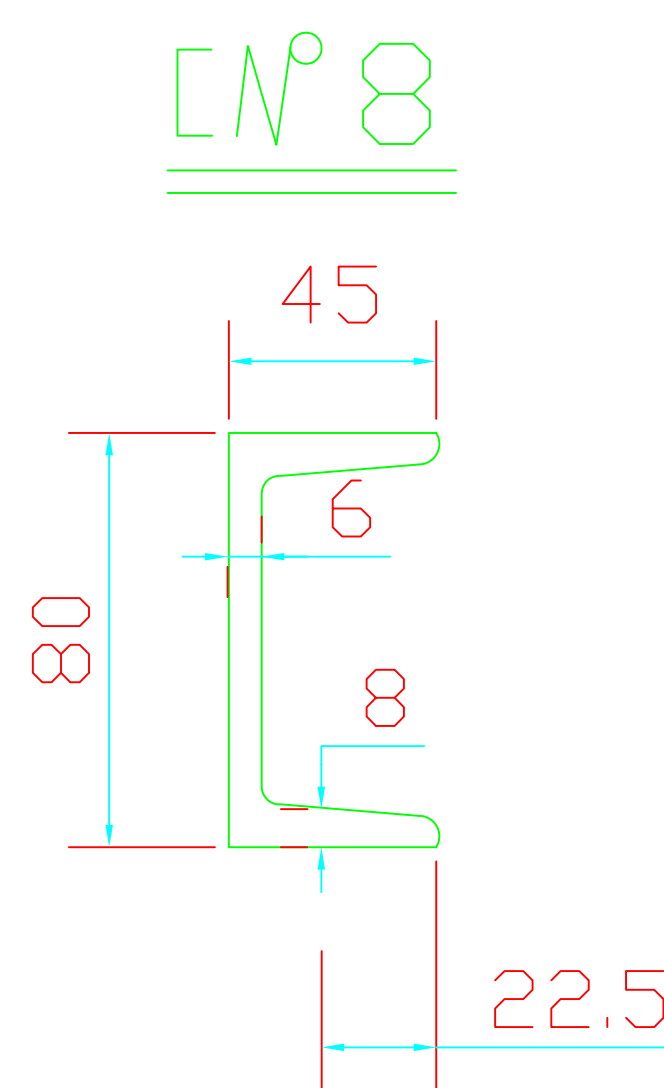
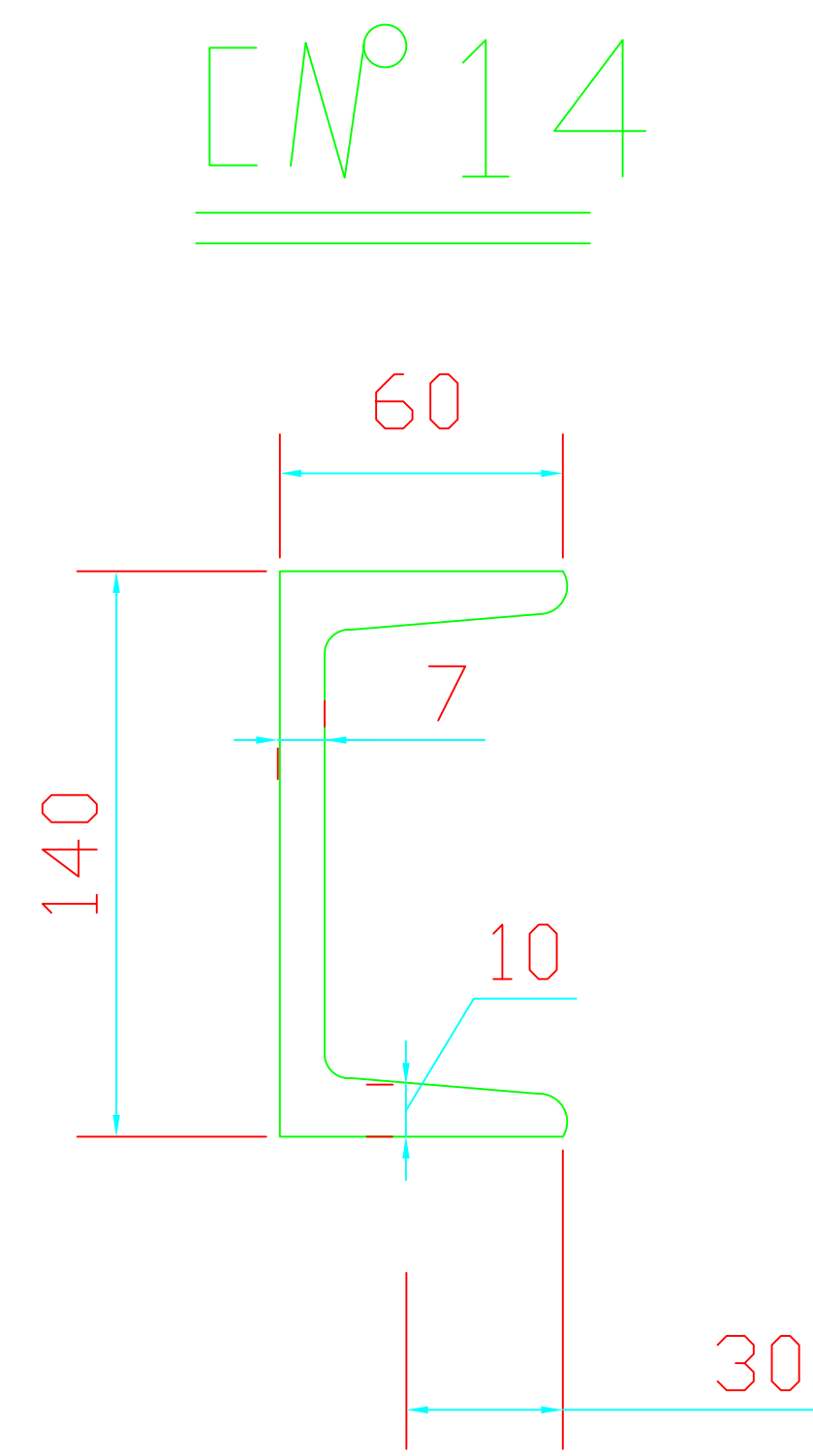


All the holes is  $\varnothing 17.5$



K1555

- Bolts Required for installation on the pole
- 8 UNC Bolt 5/8" \* 40mm
  - 8 square washer 5/8"
  - 4 UNC Bolt 5/8" \* 35mm
  - 4 Ring washer 5/8"



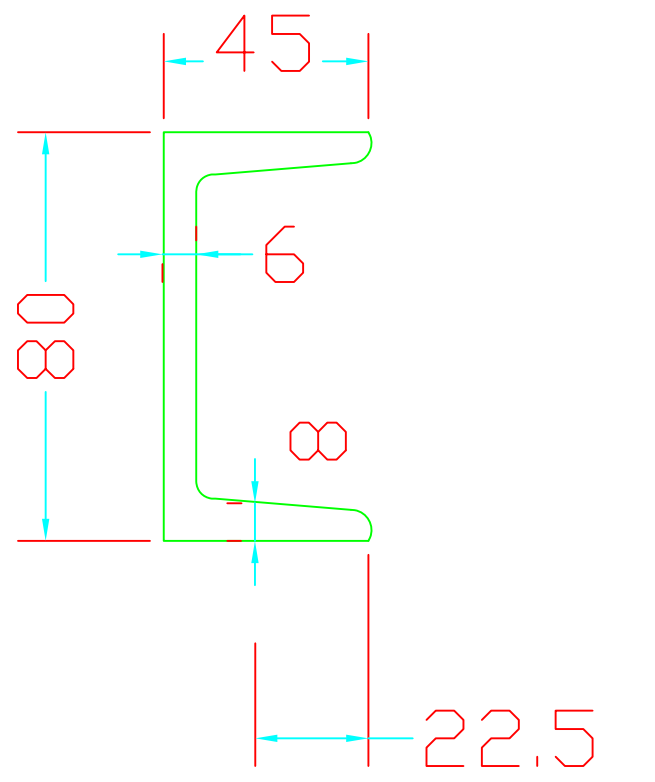
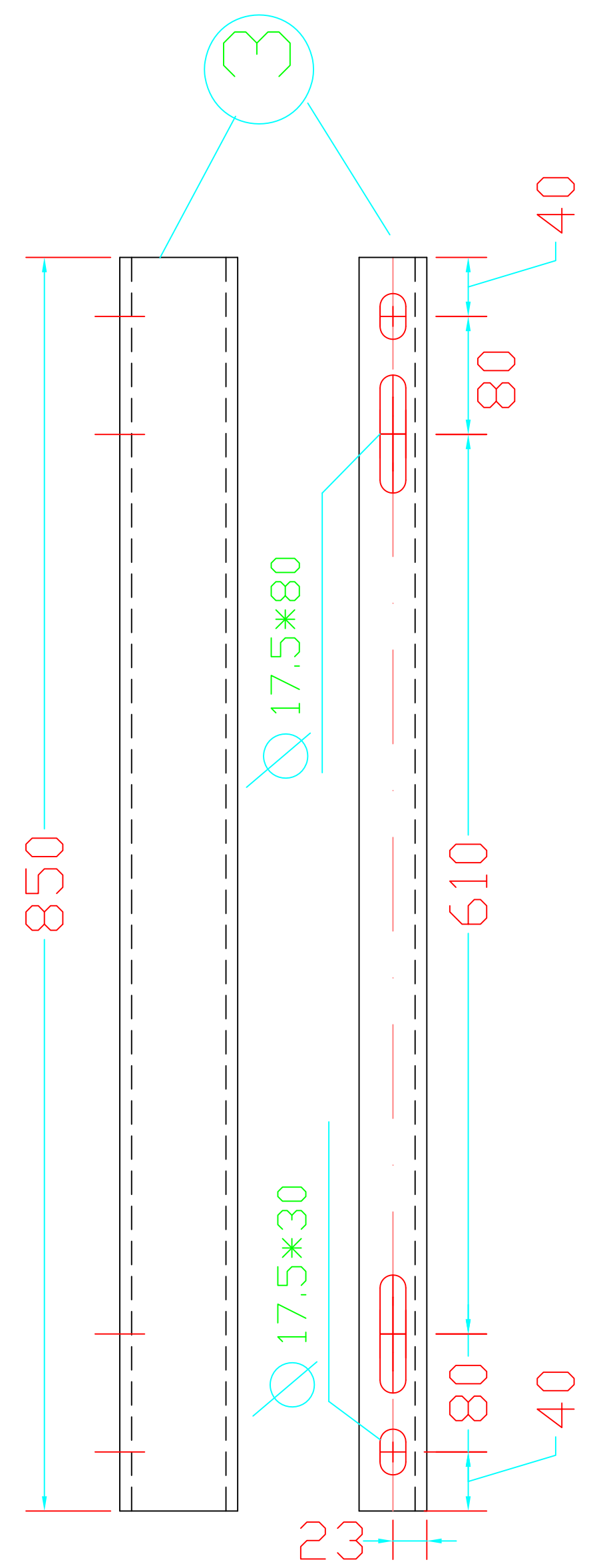
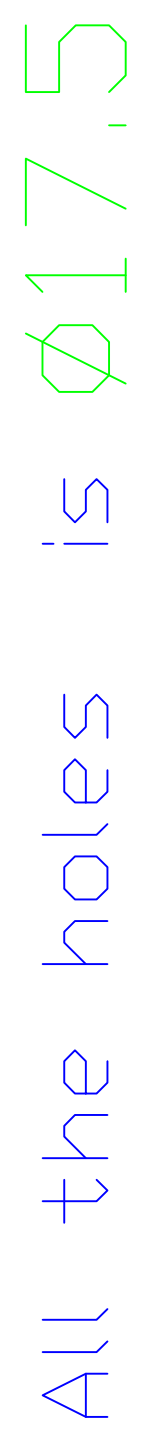
Note: All component must be Steel RST37.2 hot dip galvanized

شركة توزيع كهرباء محافظات غزة  
**GEDCO**

Prepared: Eng. ziad ALHoussaini

Hot Galvanized Transformer  
Isolator Side Arm K1555  
2.5m long

Weight K.g	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
80	5000	2500	CN° 14	1	2
34.6	4000	2000	CN° 8	2	2
114.6	Total Weight				

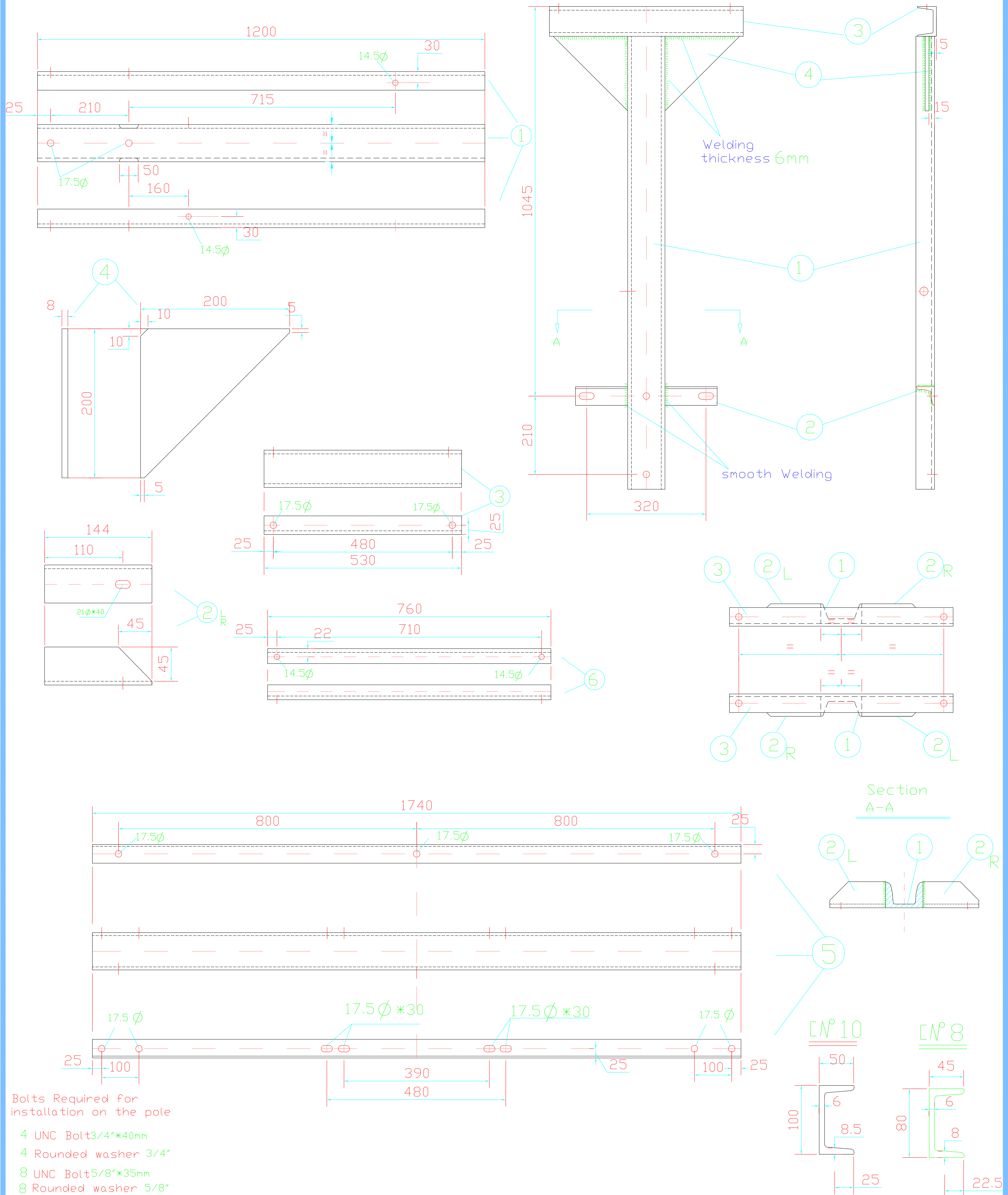


Note: All component must be Steel RST37.2  
hot dip galvanized



Hot Galvanized Transformer  
Isolator Side Arm K1558  
3.35m long

K.g	mesurment	mesurment	Description	Item	Quant.
107.2	6700	3350	CNP 14	1	2
34.5	4000	2000	CNP 8	2	2
7.3	850	850	CNP 8	3	1
149Kg	Total Weight				



Weight kg	Total mm mesurment	Unit mm mesurment	Material	Quantity	Item
25.4	2400	1200	EN <sup>o</sup> 10	2	1
2.2	576	144	L50*50*5	2R+2L	2R
9.2	1060	530	EN <sup>o</sup> 10	2	3
5.3	420		Ø 200*8	4	4
30.0	3480	1740	EN <sup>o</sup> 8	2	5
3.2	1520	760	L40*40*4	2	6

Note: All component must be Steel 37.2  
hot dip galvanized

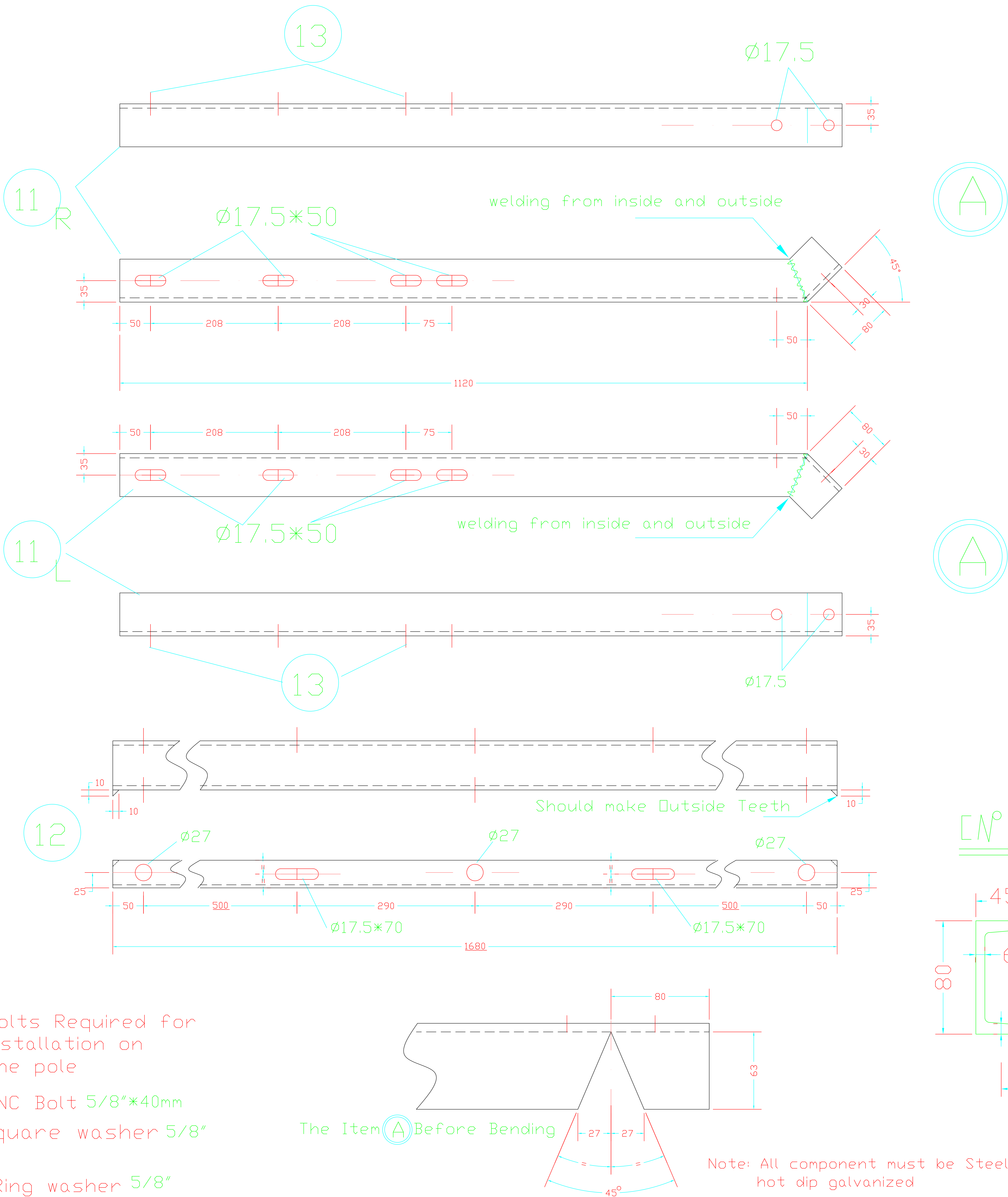


شركة توزيع كهرباء محافظات غزة  
GEDCO

Prepared: Eng. ziad ALHoussaini



K1743



Bolts Required for  
installation on  
the pole

- 6 UNC Bolt 5/8"\*40mm
- 4 square washer 5/8"
- 2 Ring washer 5/8"

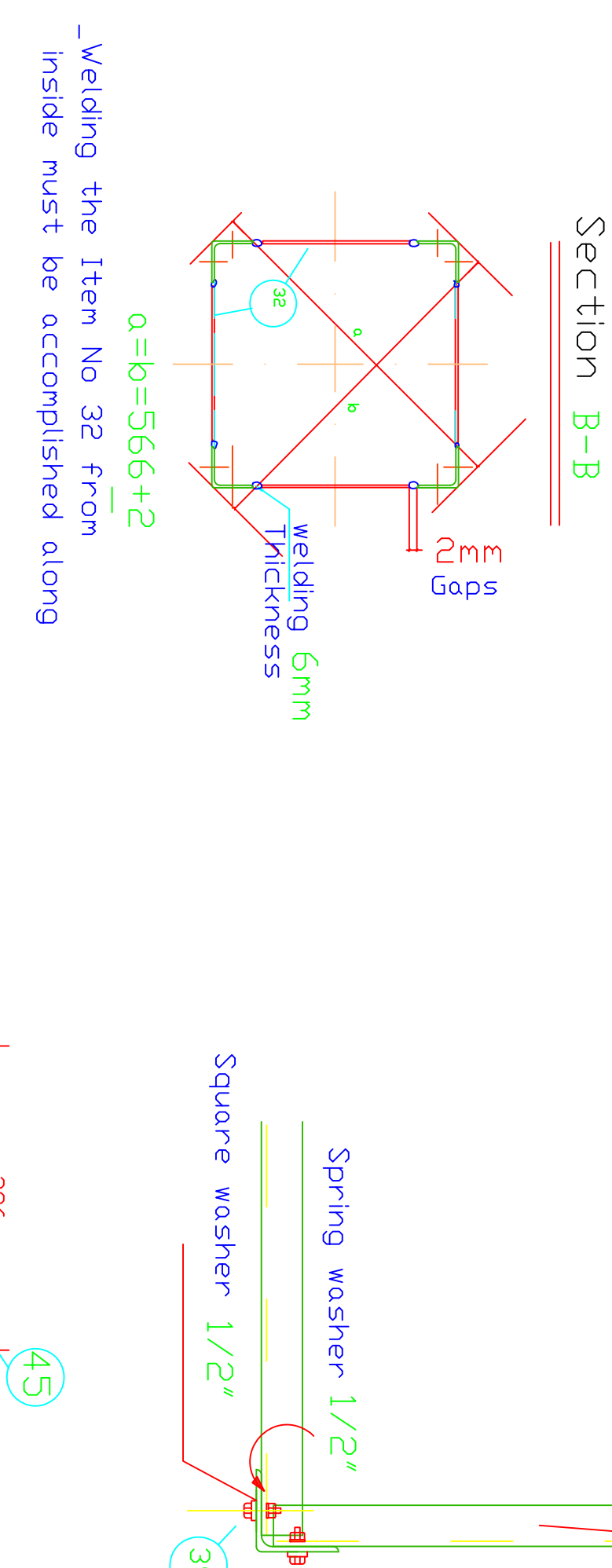
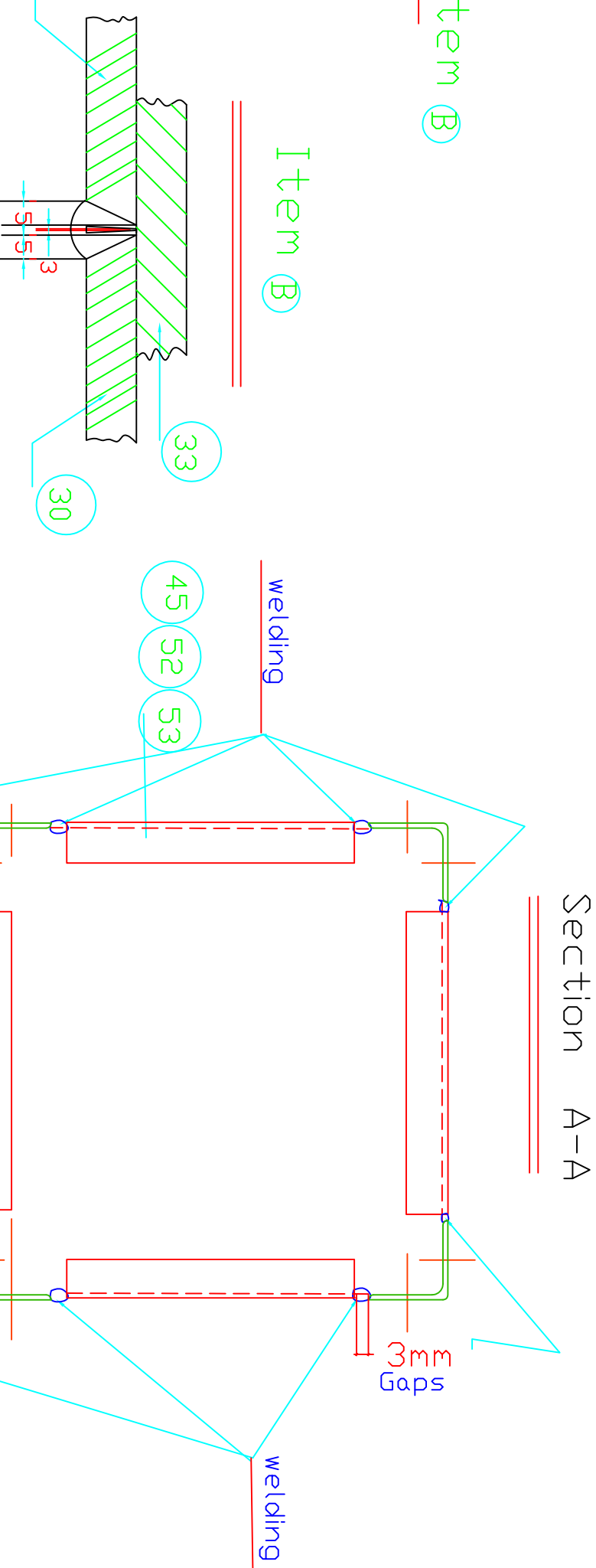
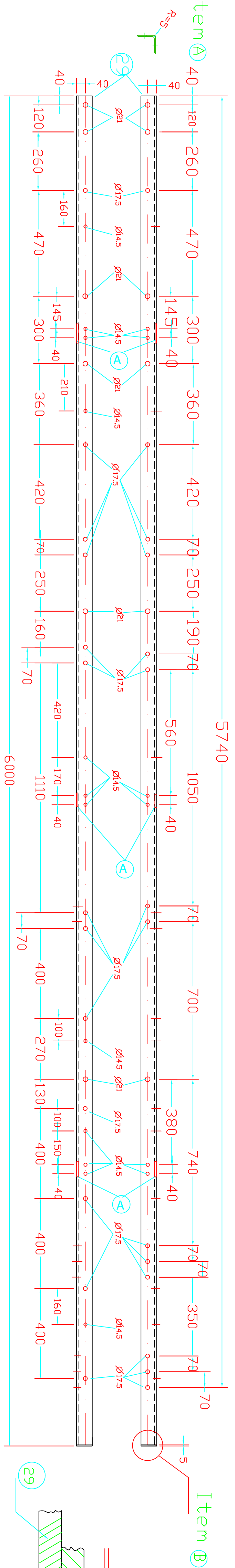
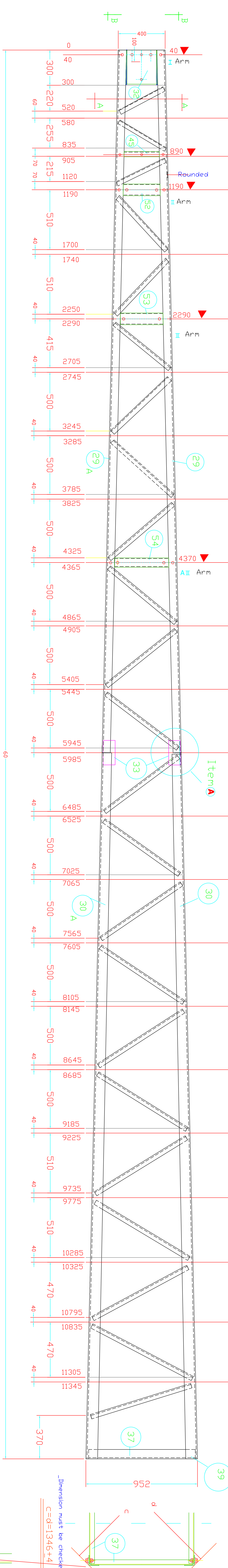


Weight Kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
17.7	2400	1200	L70*70*7	11 <sub>R</sub>	1R+1L
14.5	Kg	1680	CN° 8	12	1

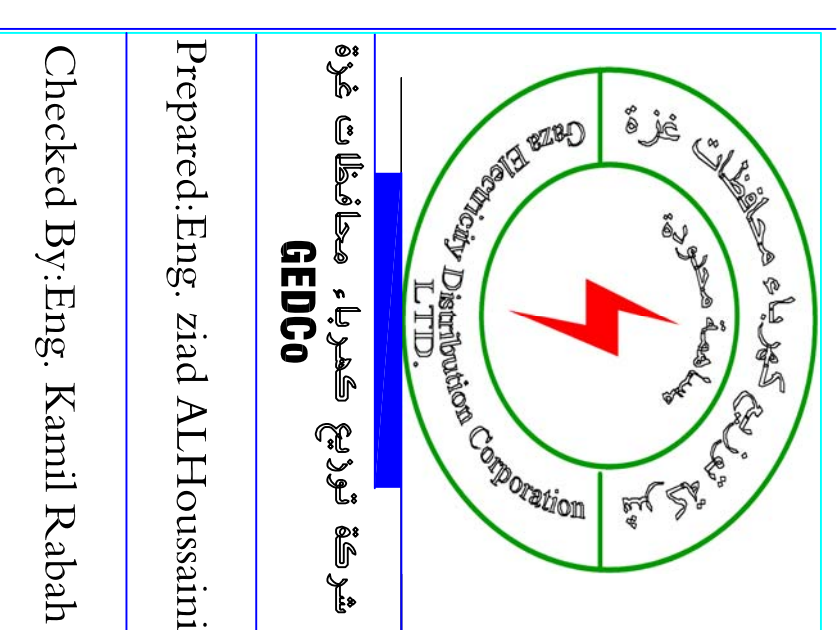
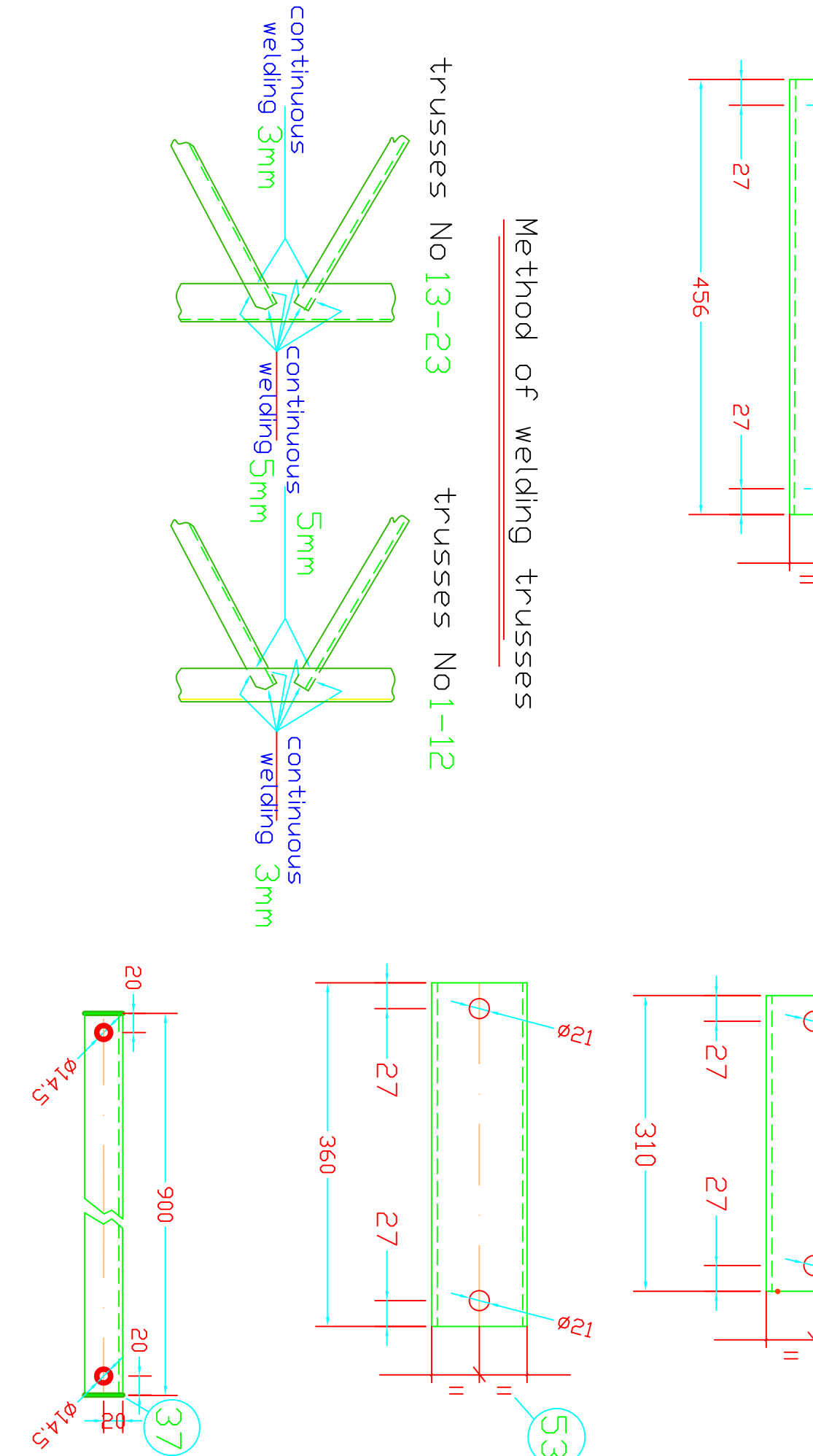
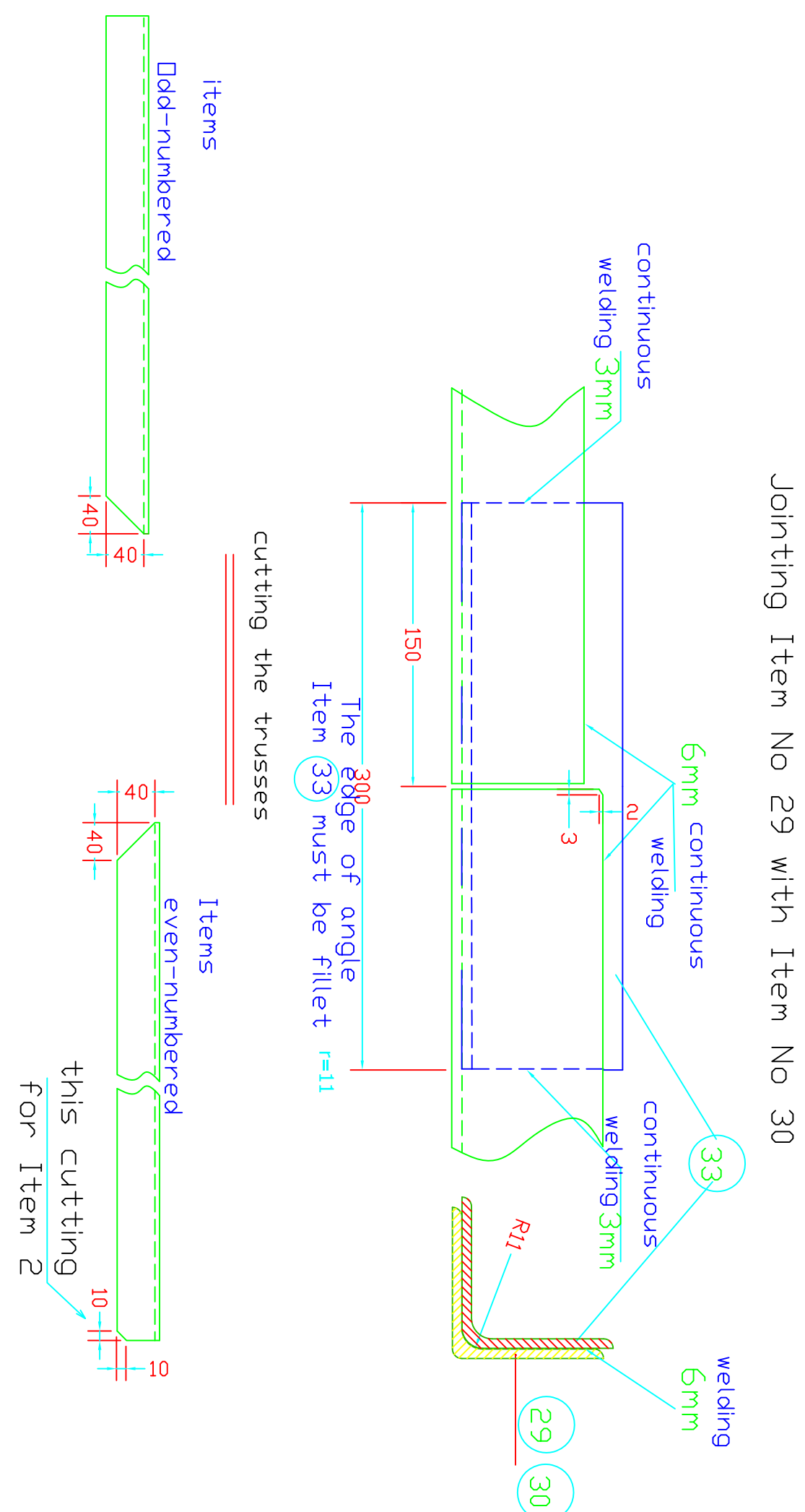
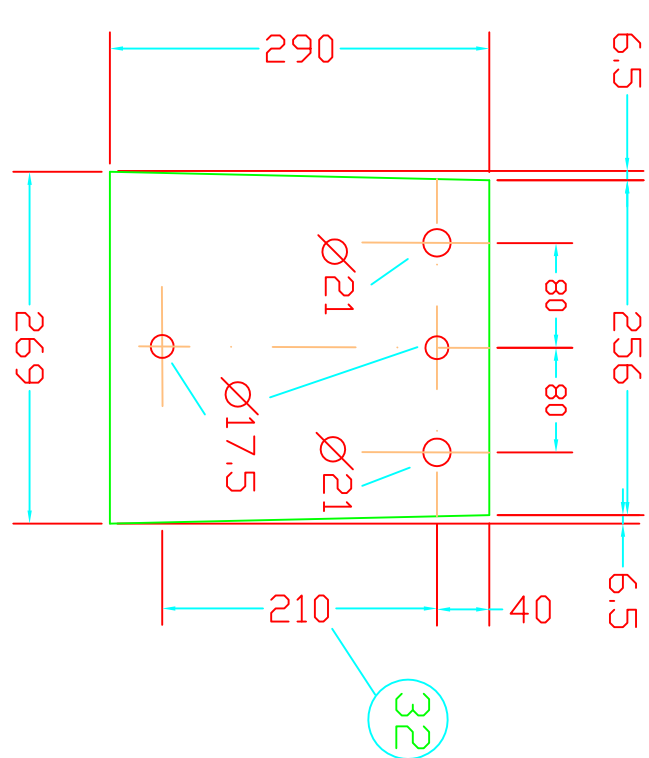
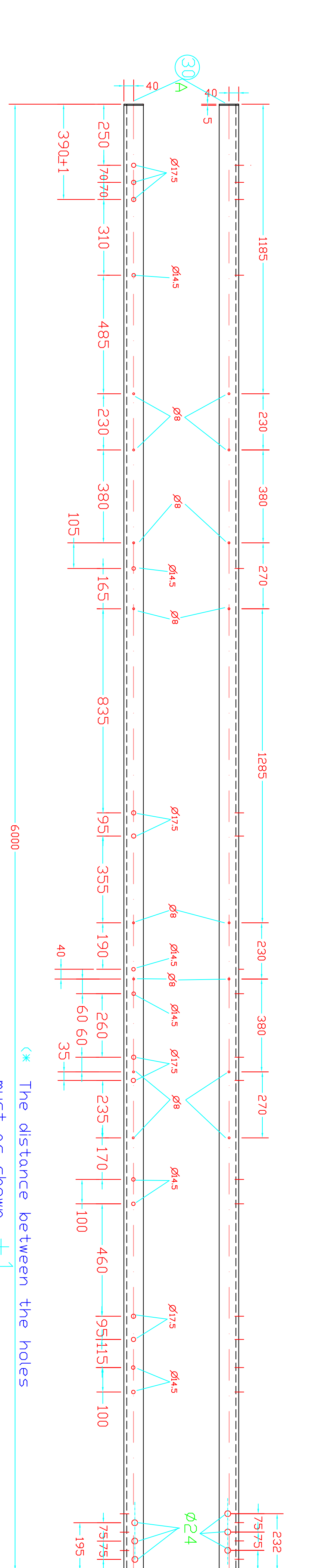
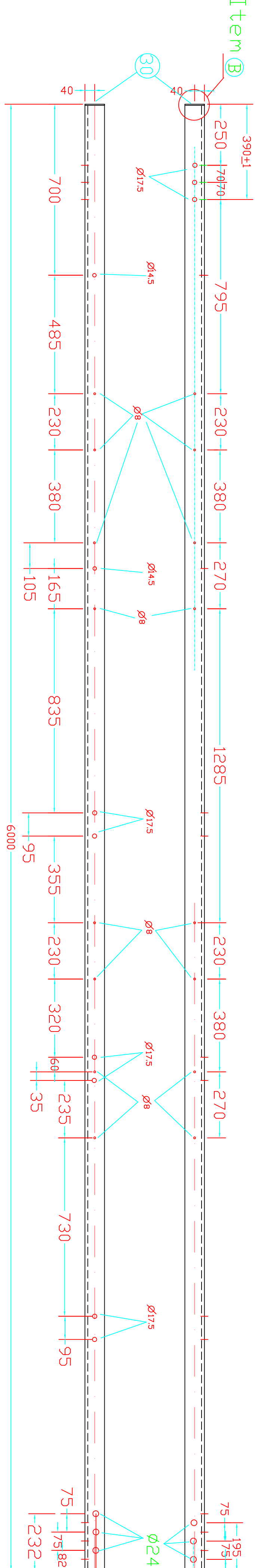
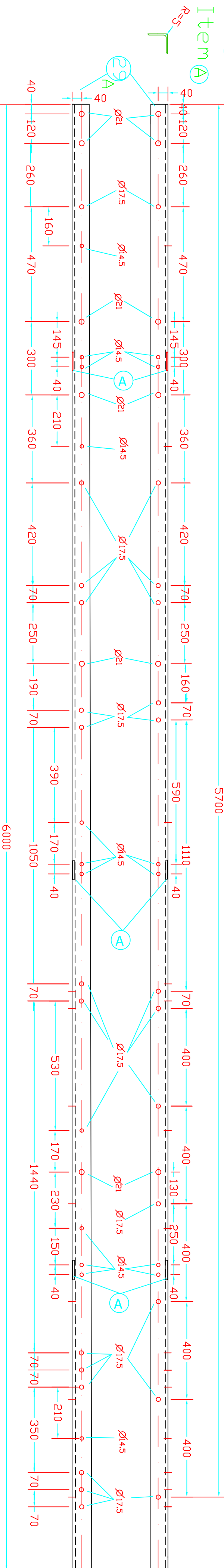
Hot Galvanized  
Auxillary Steel Arm K1743



Item No	measurement = L mm
1	435
2	400
3	450
4	635
5	655
6	615
7	685
8	700
9	725
10	740
11	760
12	770
13	785
14	820
15	840
16	860
17	880
18	905
19	930
20	950
21	955
22	980
23	930



The edge of angle must be Rounded along 50mm In specific places (A) only



Note: All component must  
hot dip galvanized

Required bolts :  
 7/8", 4.5cm 20  
 7/8", 5cm 4

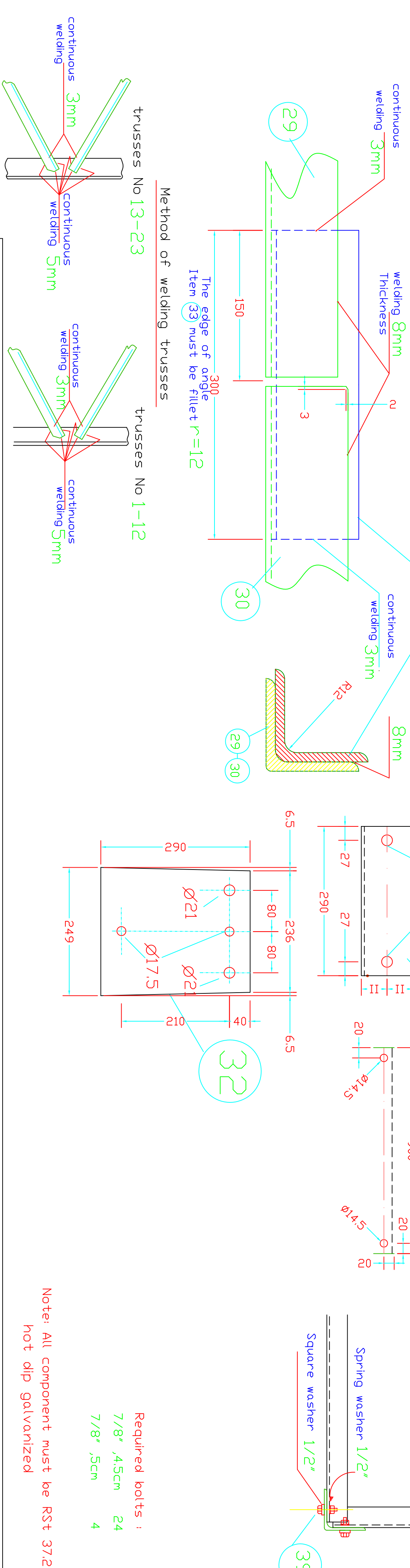
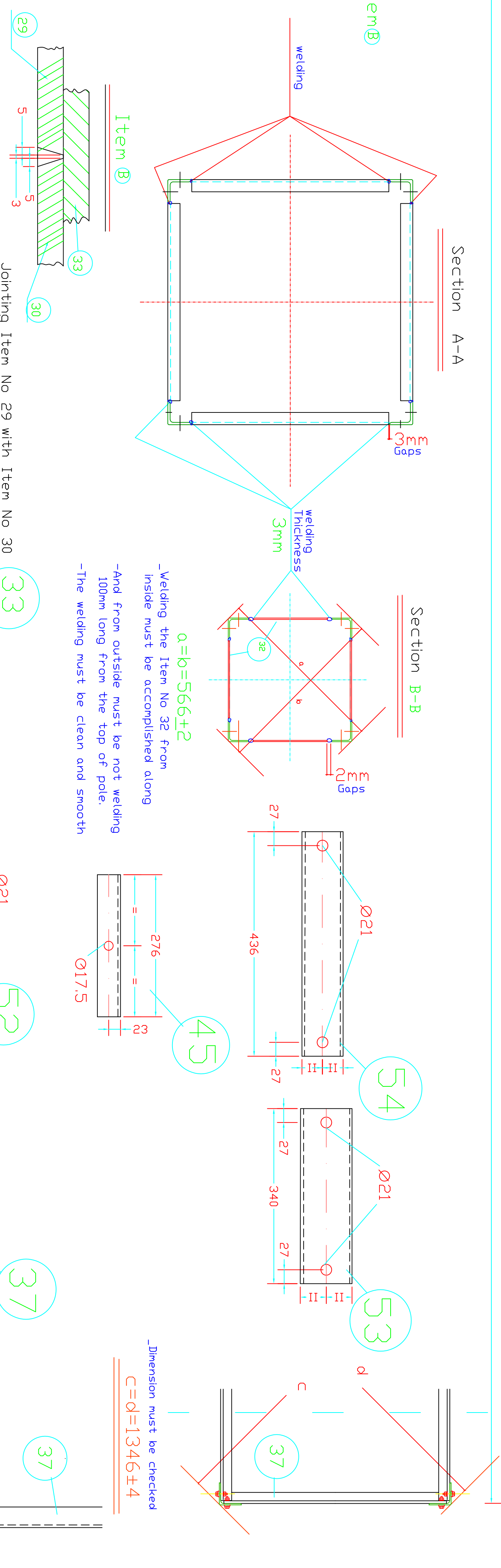
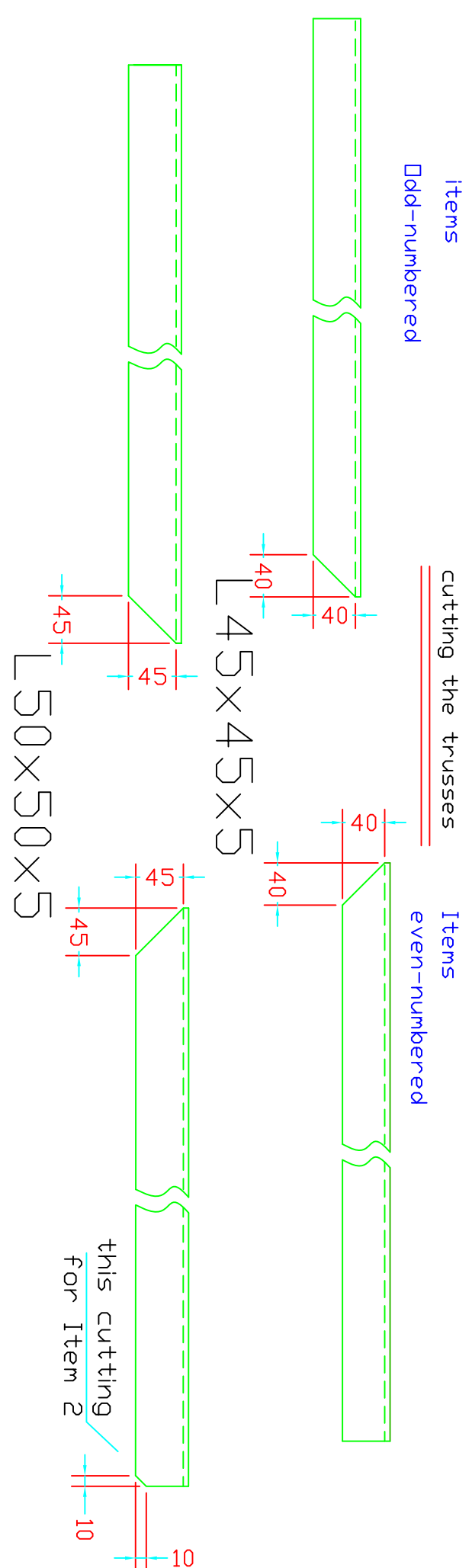
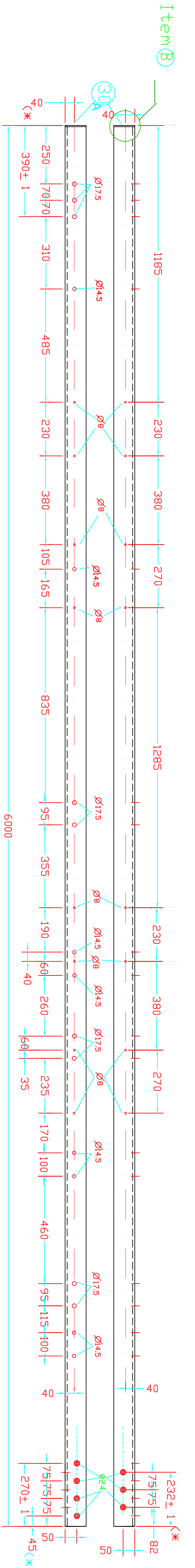
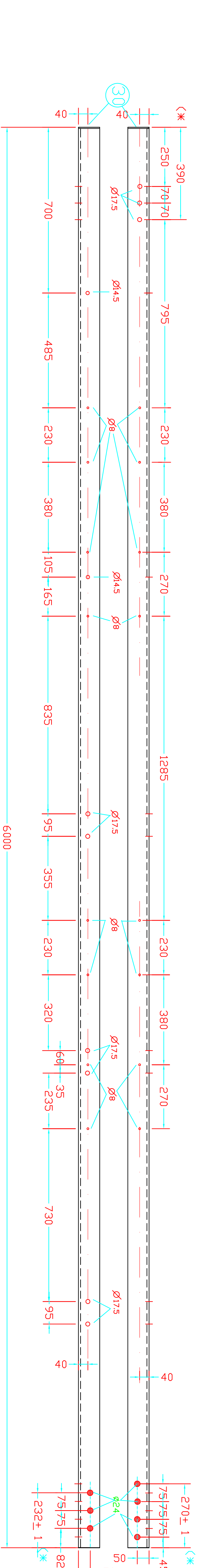
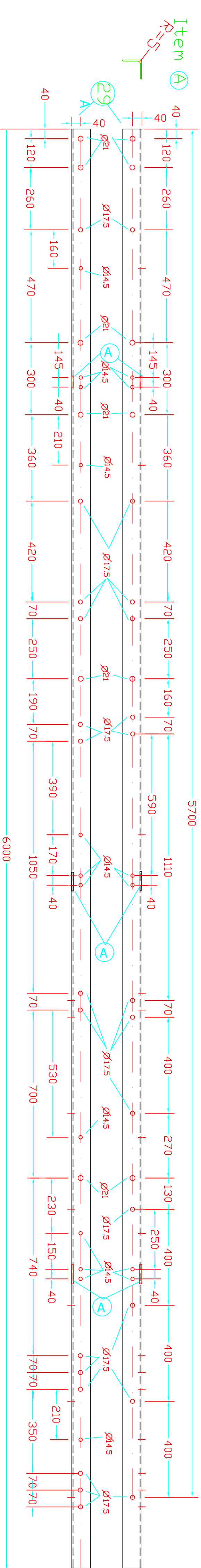
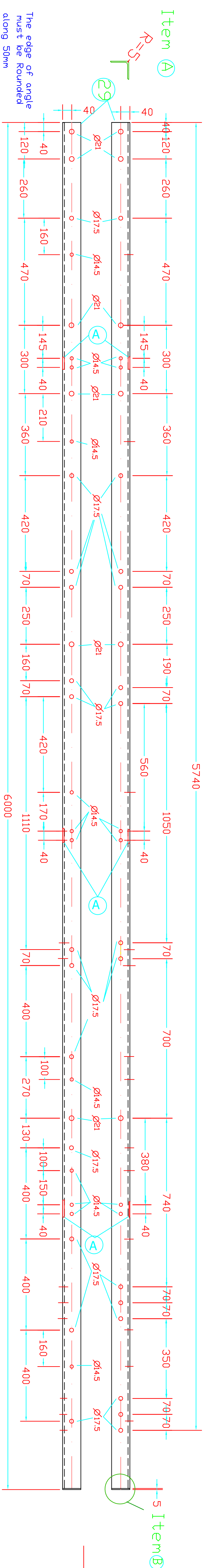
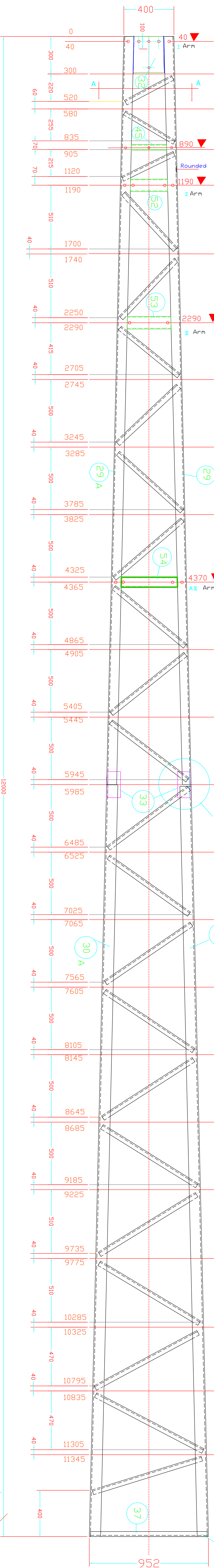
M.V. Lattice  
Steel Pole  
70/80 long  
12m


Weight kg	Total mm measurement	Unit mm measurement	Description	Quant.	Item
236	69860	L	L45Kx5M5	23x4	1-23
1271	24000	6000	L70Kx70x7	2x4	29+29A
2318	24000	6000	L80K90x8	2+2	30+30A
145	1076	269	L7250x6	4	32
116	1200	300	L80K30x8	4	33
87	3600	900	L400K10x4	4	37
Sonic Bolt					1/2"x35
Sonic washer 1/2"					8
Square washer 1/2"					39
4	1184	296	L45Kx5M5	4	45
107	1240	310	CN 8	4	52
124	1440	360	CN 8	4	53
158	1824	456	CN 8	4	54
723kg total weight					



The width of the pole increase 46mm every one meter from the pole top until the end of pole

Item No	measurement = L mm
1	430
2	455
3	445
4	630
5	650
6	610
7	680
8	695
9	720
10	735
11	760
12	765
13	780
14	815
15	835
16	855
17	875
18	900
19	920
20	945
21	950
22	970
23	920



					
<p>شركة توزيع الكهرباء، جدة  <b>GEDCO</b></p>					
<p>Prepared: Eng. zaid AlHousaini</p>					
<p>Checked By: Eng. Kamil Raboh</p>					


80/90 long	12m
Steel Pole	M.V. Lattice

Weight kg	Tall mm measurement	Unit mm measurement	Description	Quant.	Item
102.3	27240	L	L55x50x5	11x4	1-11
148.7	42120	L	L75x45x5	12x4	12-22
2318	24000	6000	L80x30x8	2+2	23+292
2961	24000	6000	L90x30x9	2+2	30+304
18.0	996	249	W 250x8	4	32
14.6	1200	300	L90x90x9	4	33
8.7	3600	900	L100x10x4	4	37
UNC Bolt 1/2"x3/5				8	
Spring washer 1/2"				8	39
Square washer 1/2"				8	
3.7	1104	276	L45x45x5	4	45
10.	1160	290	U 8	4	52
11.8	1360	340	U 8	4	53
151	1744	436	U 8	4	54

851kg new weight



[illegible]


شركة توزيع كهرباء محافظات غزة  
Gulf Electricity Distribution Company  
LED

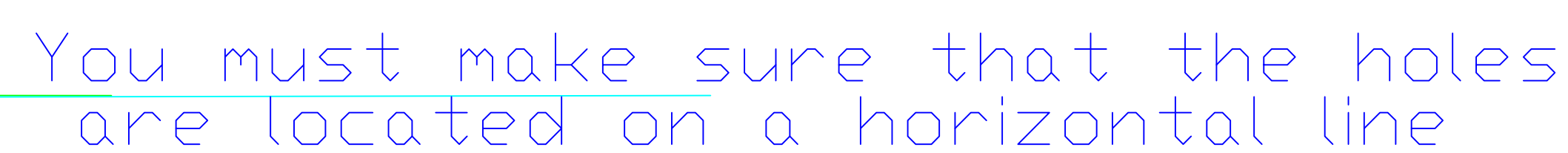
شركة توزيع كهرباء محافظات غزة  
GEDCo

Prepared: Eng. ziad ALHoussain

Checked By: Eng. Kamil Rabah

Wieght kg	Total MM measurment	Unit mm measurment	Description	Quant.	Item
245.9	65240	L	L50*50*5	22*4	1-22
292.8	24000	6000	L90*90*9	2+2	29+29A
398.4	24000	6000	L110*110*10	2+2	30+30A
16.6	916	229	□ 290*8	4	32
23.2	1400	350	L110*110*10	4	33
11.7	3480	870	L45*45*5	4	37
		UNC Bolt	1/2" *35	8	
		Spring washer	1/2"	8	39
		Square washer	1/2"	8	
3.9	1024	256	L50*50*5	4	45
9.3	1080	270	U 8	4	52
11.1	1280	320	U 8	4	53
14.4	1664	416	U 8	4	54
1027kg	Total Weight				


Item 



Method of welding  
The Item No 41 with 23.

```
_Dimension must  
be checked  
a=b=1490+2
```

welding from inside and out side  
thickness 5mm

 The edge of angle must be fillet

Note: All component must be RSt 37.2  
hot dip galvanized

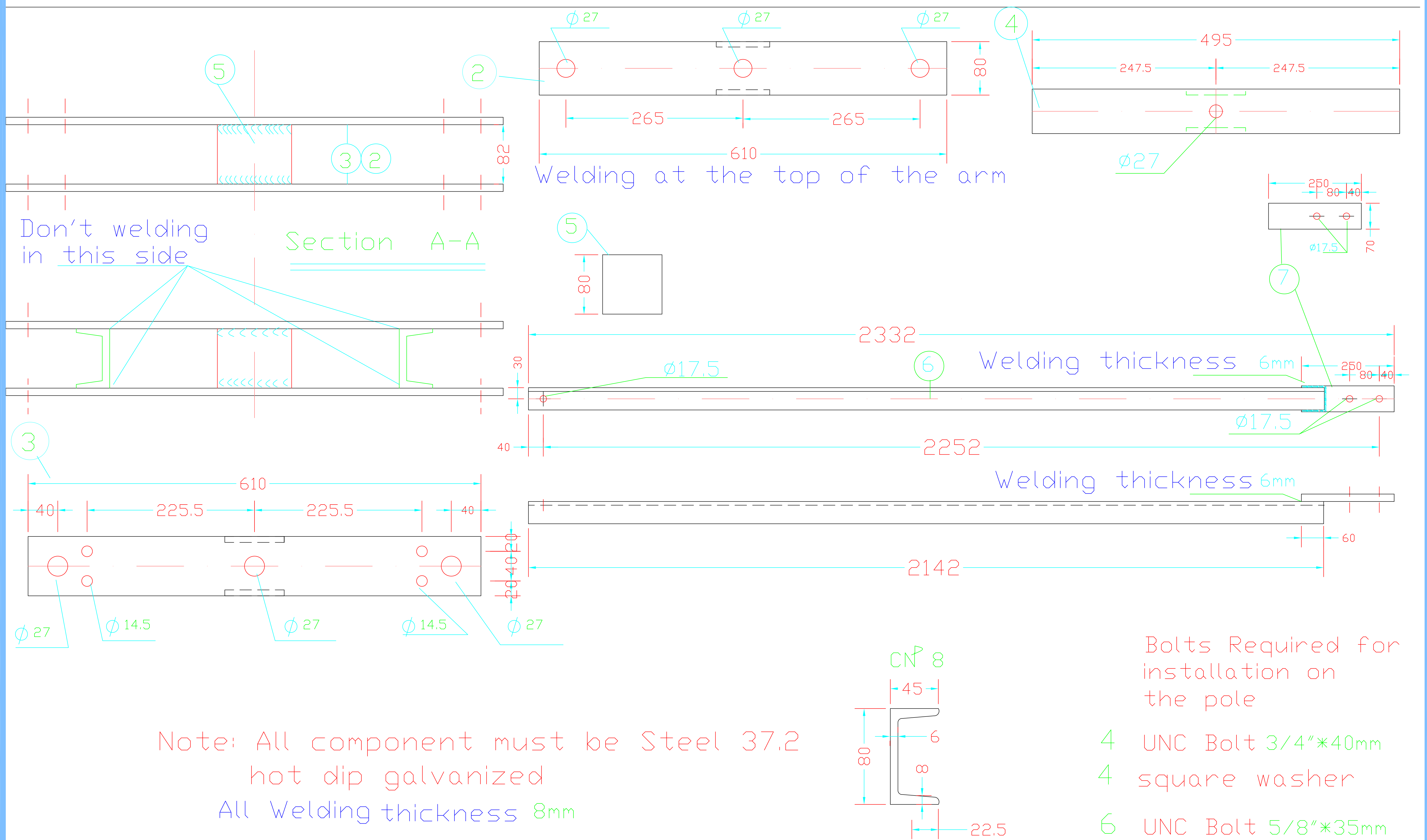
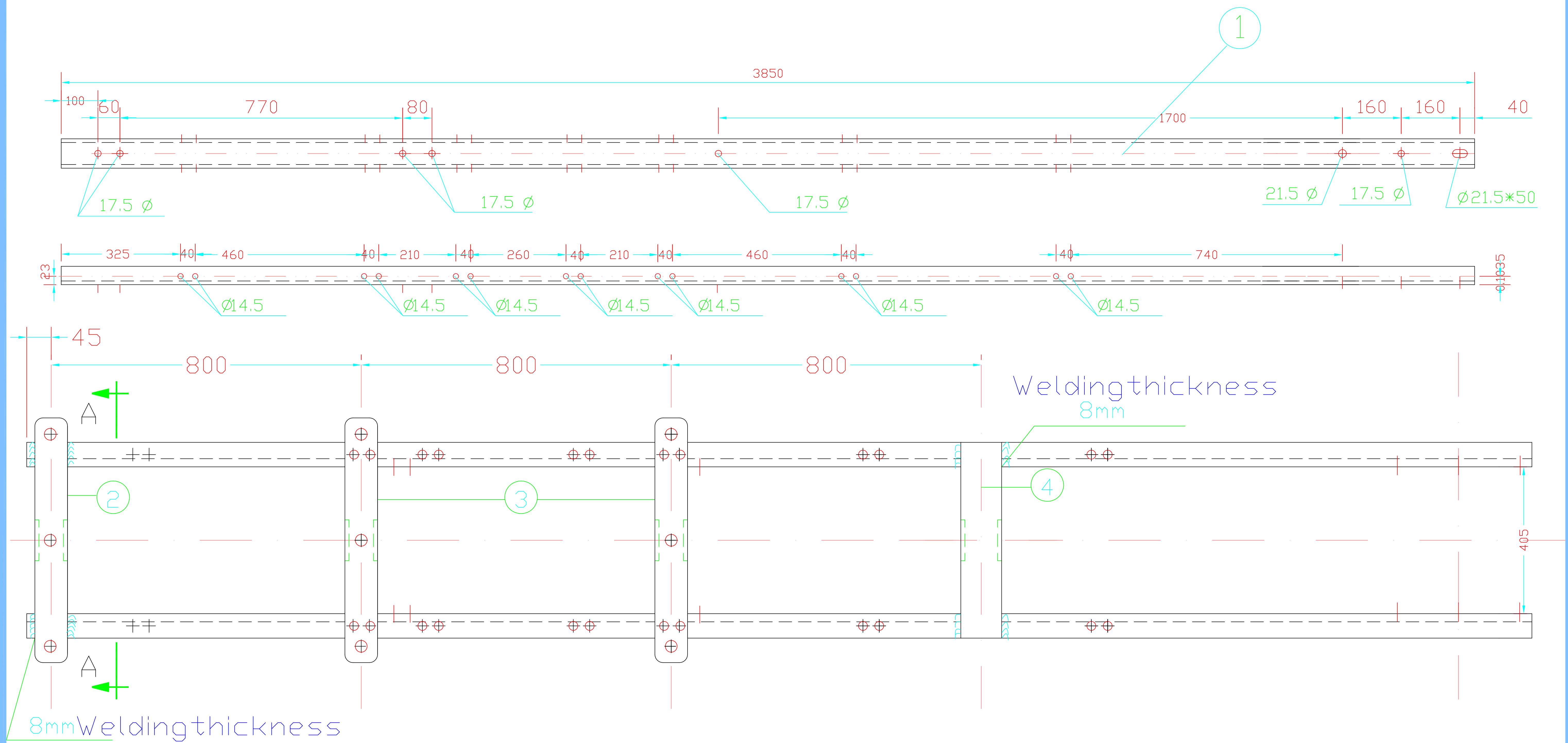


Checked By: Eng. Kamil Rabah

$$90 \times 110 - 12 \text{ m}$$

297Kg Total Weight

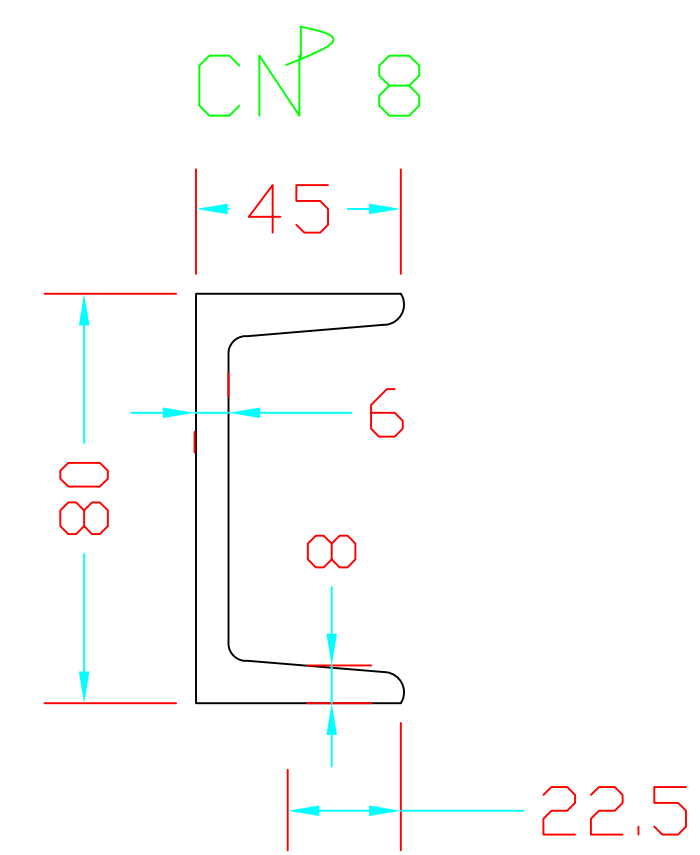





Note: All component must be Steel 37.2  
hot dip galvanized  
All Welding thickness 8mm

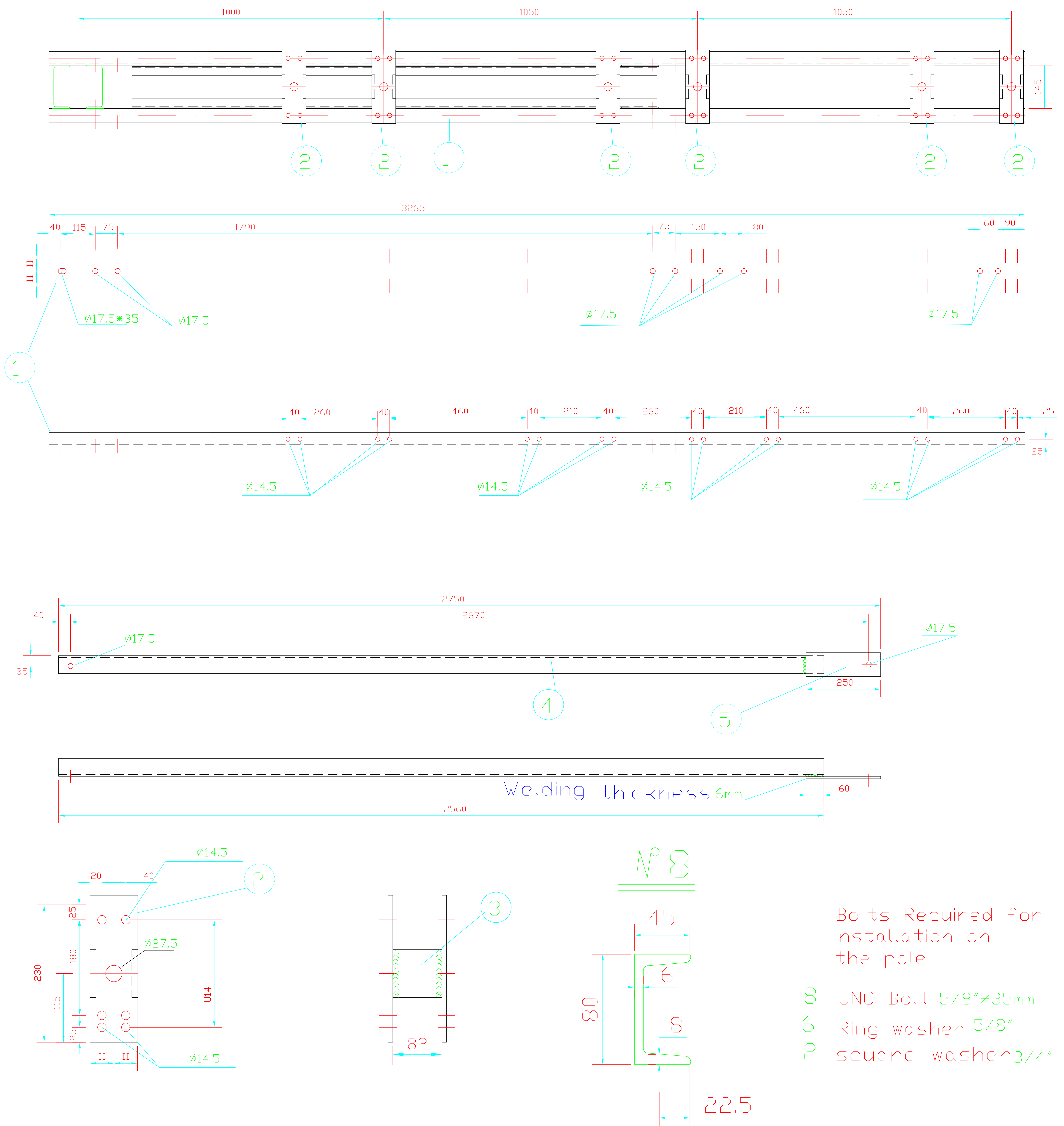
Bolts Required for  
installation on  
the pole

- 4 UNC Bolt 3/4"\*40mm
- 4 square washer
- 6 UNC Bolt 5/8"\*35mm
- 6 Ring washer

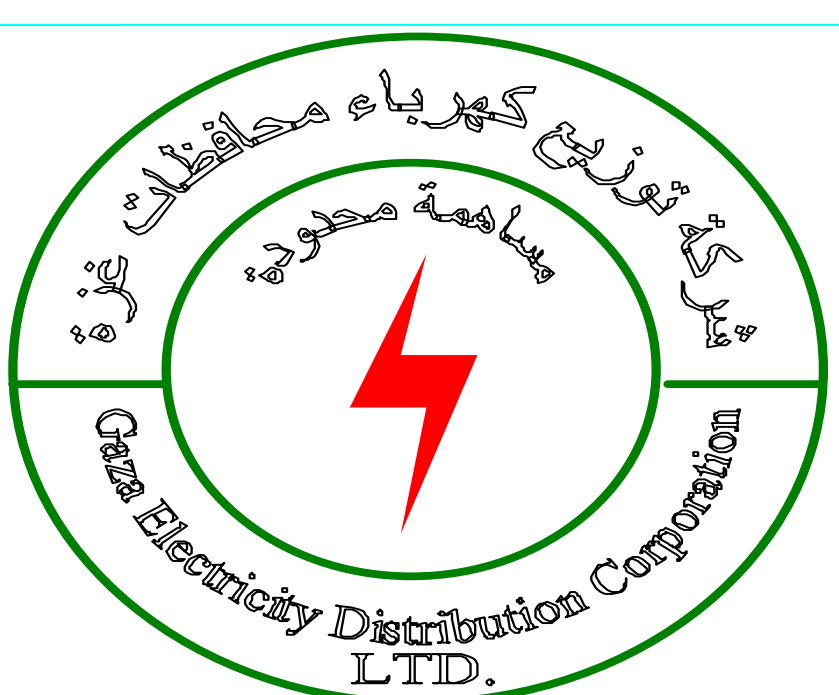


 <p>شركة توزيع كهرباء محافظات غزة GEDCO</p> <p>Prepared: Eng. ziad ALHoussaini</p>	<p>Hot Galvanized Lattice Pole Suspension Side Arm</p> <p>K7972</p> <p>1.5m at 1st Phase</p>		Weight Kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
			66.6	7700	3850	CN <sup>P</sup> 8	1	2
		The angle must be fillet	4.3	1220	610	Plate ø80*8	2	2
			8.6	2440	610	Plate ø80*8	3	4
			5.5	990	495	Plate ø80*8	4	2
			3.3	640	80	Support ø80*8	5	8
			23.2	4284	2142	Strut L60*60*6	6	1R+1L
			2.5	500	250	Plate ø80*8	7	2
						UNC Bolt 1/2"*35	8	16
						spring washer 1/2"	9	16
			114kg Total Weight					

K10045C



Note: All component must be Steel 37.2  
hot dip galvanized  
All Welding thickness 8mm



شركة توزيع كهرباء محافظات غزة

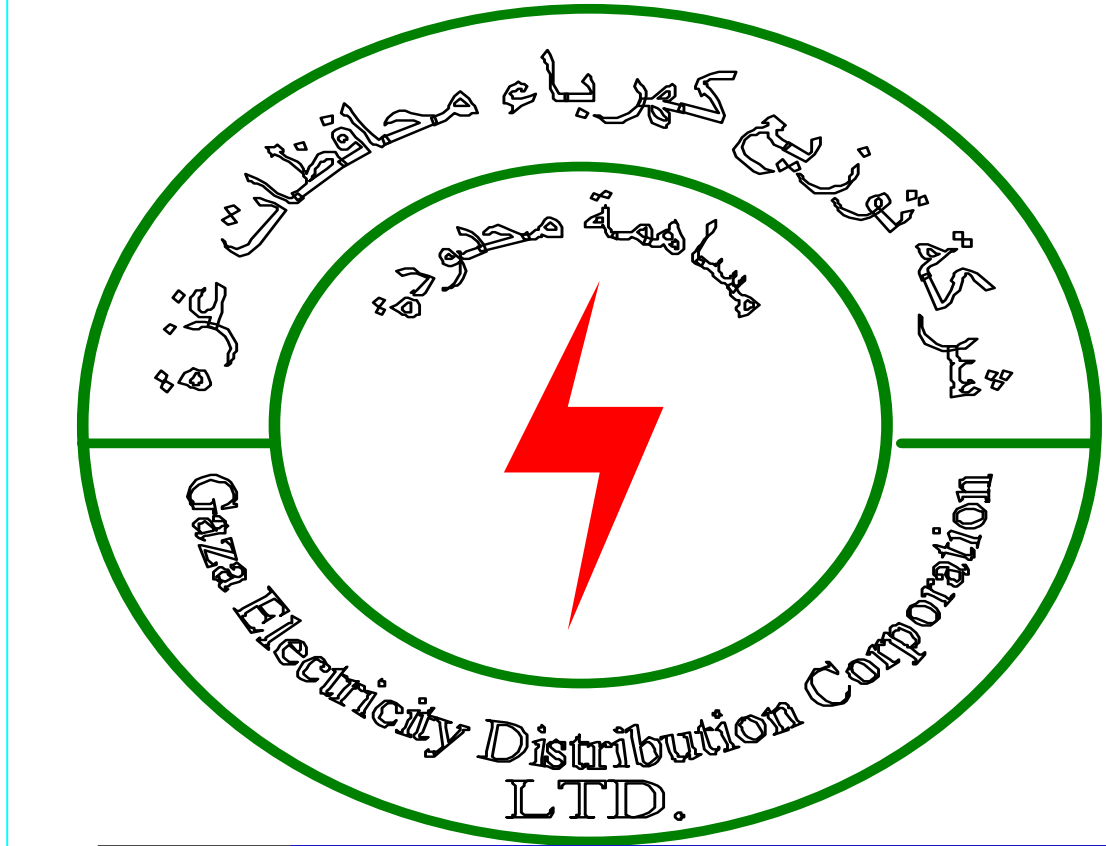
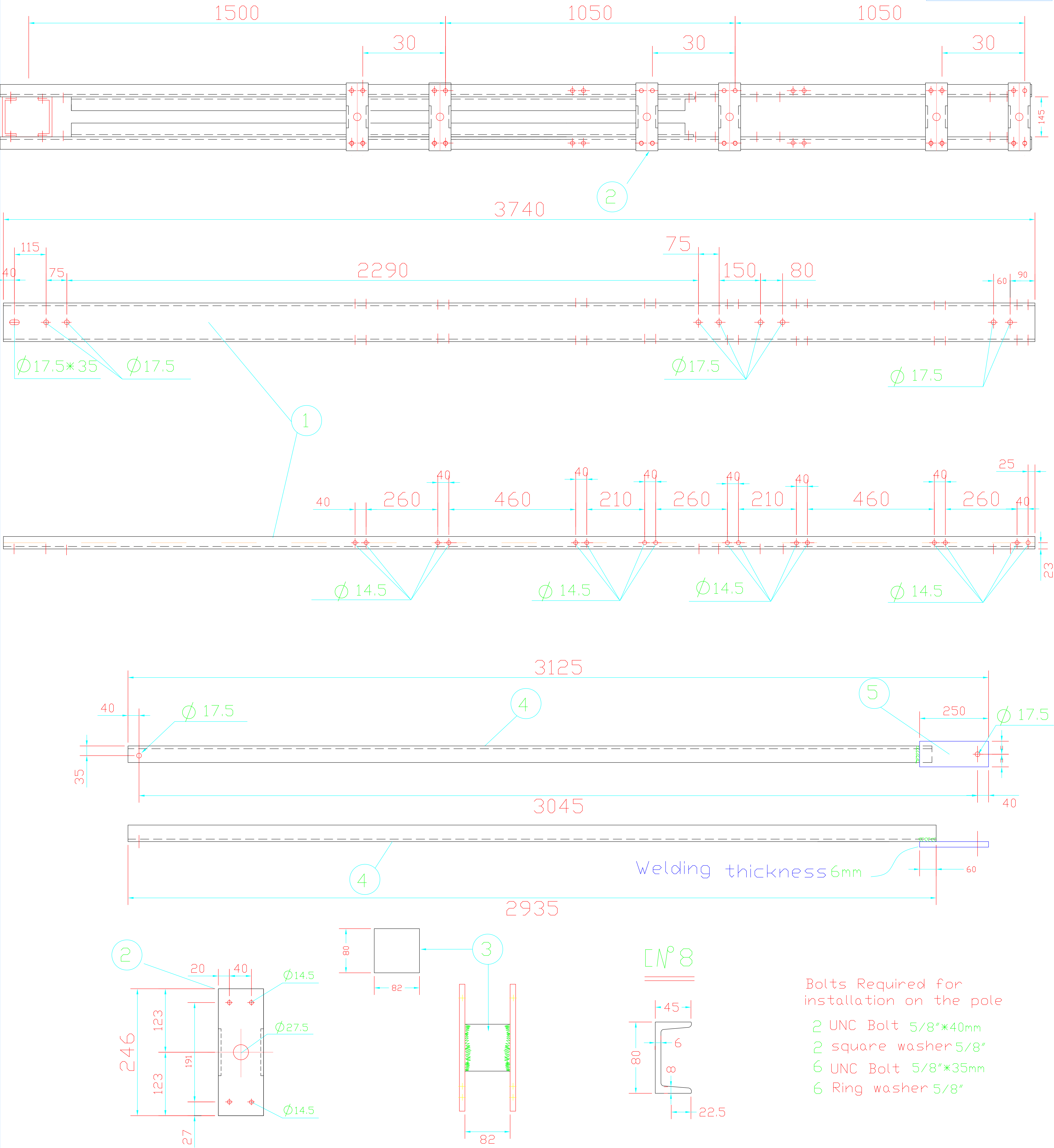
Prepared: Eng. ziad ALHoussaini

Hot Galvanized C.S.P  
Suspension Side Arm  
K10045C

1m at 1st Phase

Weight kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
56.4	6530	3265	CN°8	1	2
13.8	2760	230	Plate ø80*8	2	12
4.8	960	80	Support ø80*8	3	12
27.8	5120	2560	Strut L60*60*6	4	1R+1L
2.5	500	250	Plate ø80*8	5	2
			UNC Bolt 1/2"*30	6	48
			Spring washer 1/2"	7	48

105.3 Kg Total Weight



شركة توزيع كهرباء محافظات غزة  
**GEDCO**

Prepared: Eng. ziad ALHoussaini

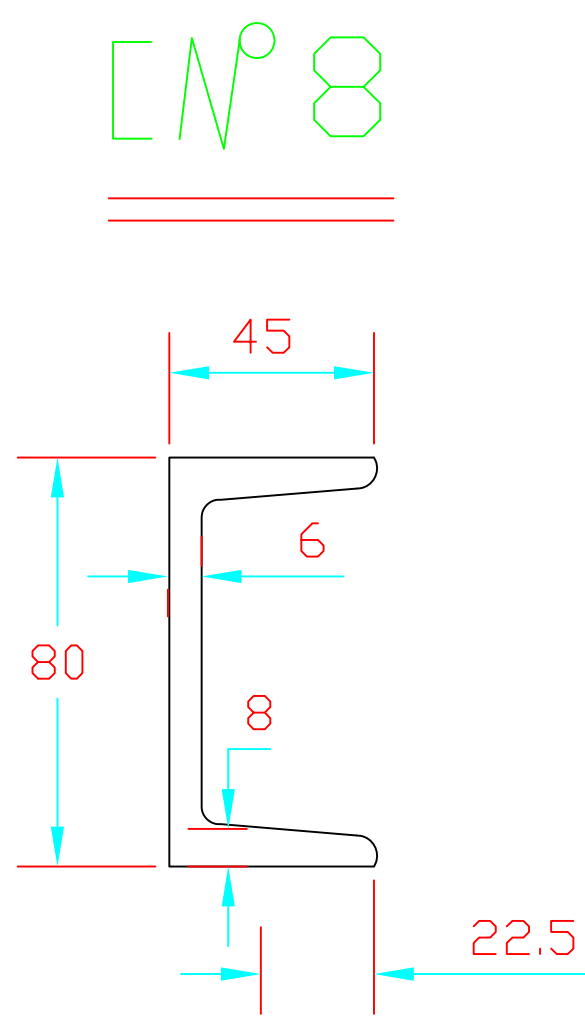
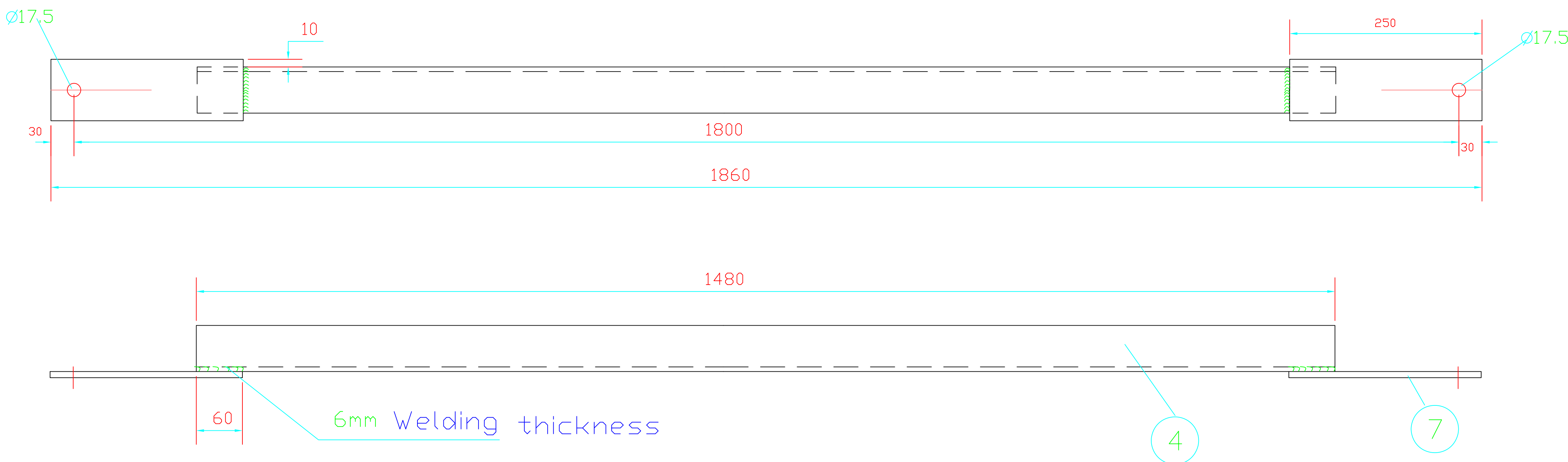
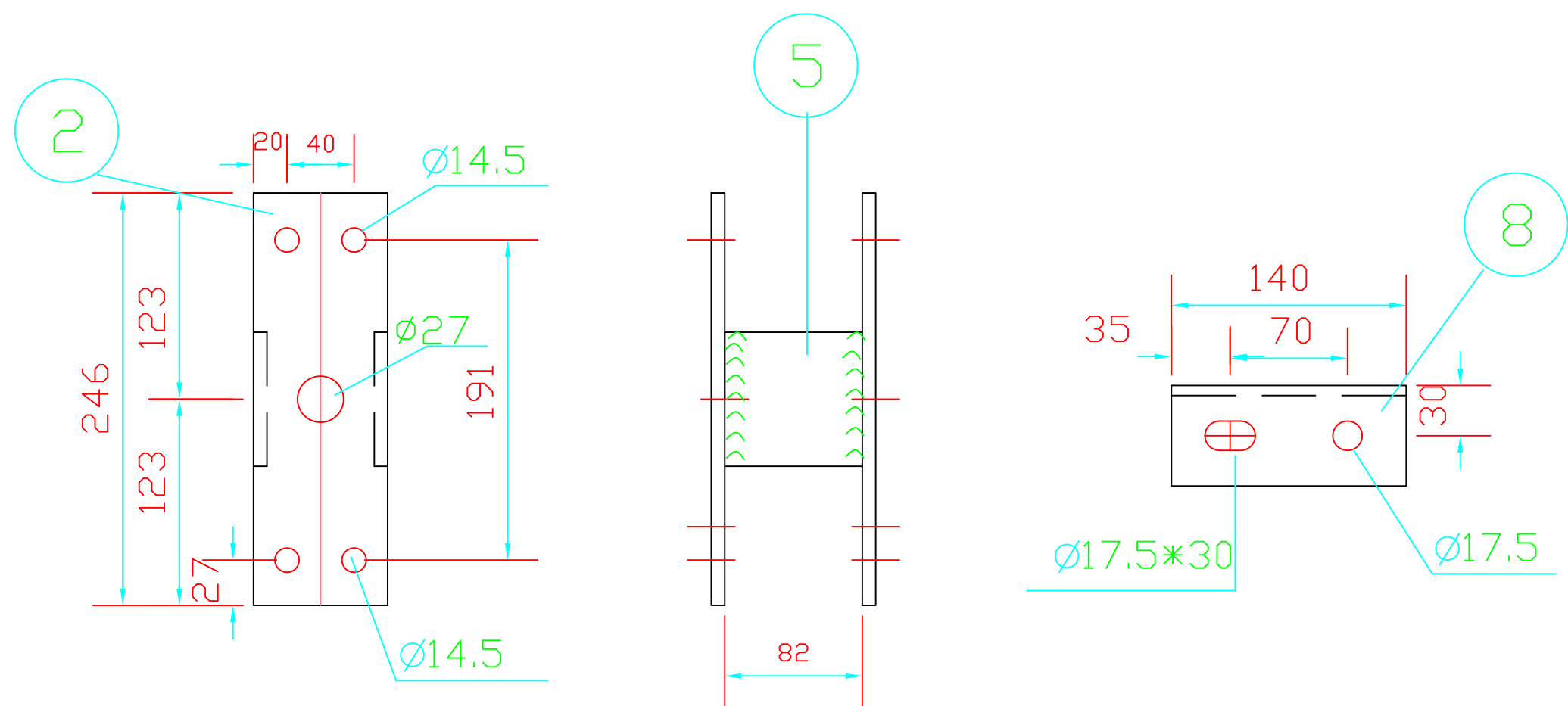
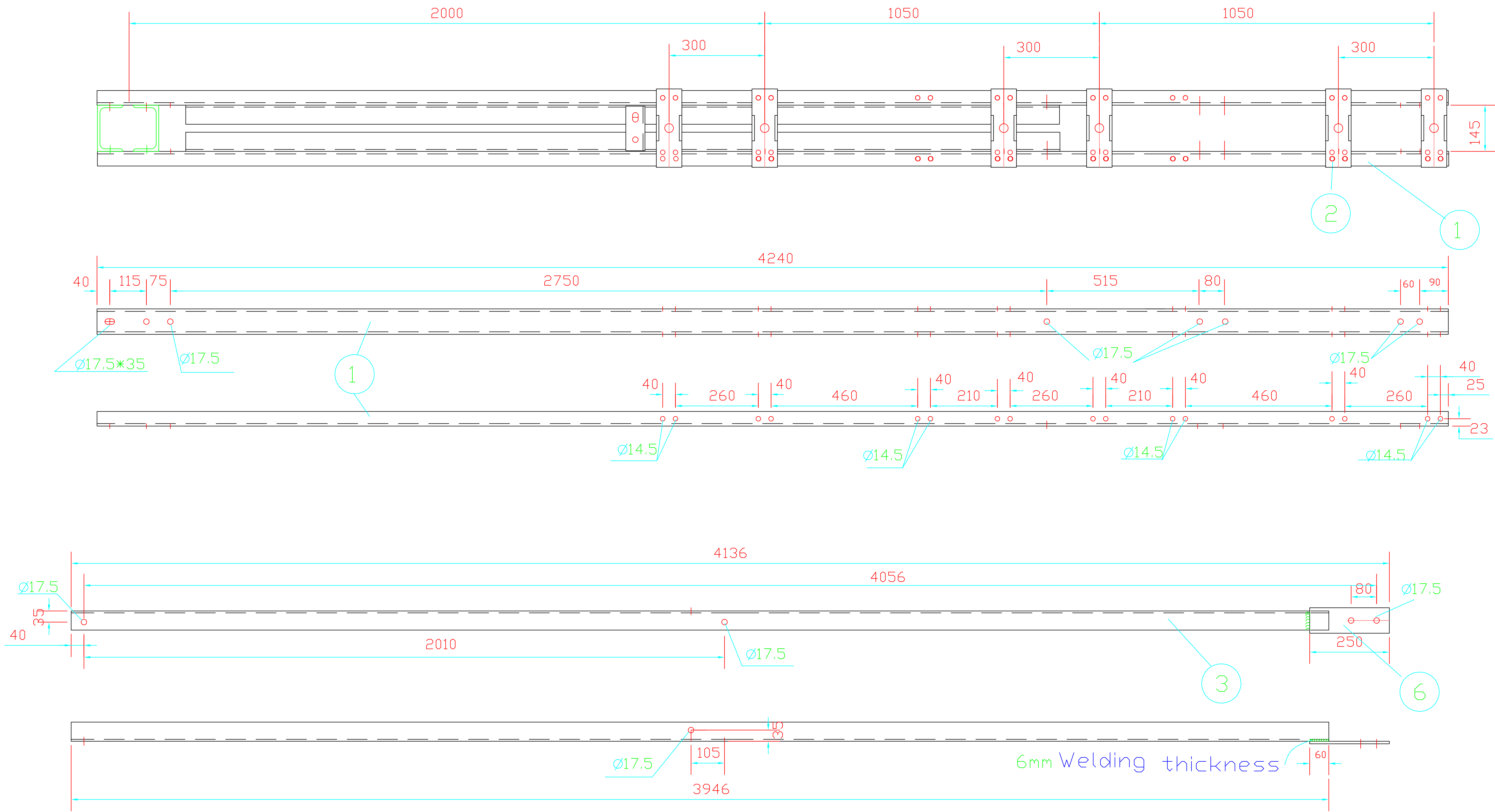
Hot Galvanized  
C.S.P Suspension  
Side Arm K10155C  
1.5m 1st Phase

Note: All component must be Steel 37.2 hot dip galvanized  
All Welding thickness 8mm

Weight kg	Total mm mesurment	Unit mm mesurment	Description	Quant.	Item
64.6	7480	3740	[N°8	2	1
14.7	2952	246	Plate $\varnothing$ 80*8	12	2
4.8	960	80	Support $\varnothing$ 80*8	12	3
31.9	5870	2935	Strut L60*60*6	1L+1R	4
2.5	500	250	Plate $\varnothing$ 80*8	2	5
			UNC Bolt 1/2"*30	48	6
			Ring washer 1/2"	48	7
118.5Kg Total Weight					



K10354C



Note: All component must be Steel 37.2  
hot dip galvanized and  
Welding thickness 8mm

Bolts Required for  
installation on  
the pole

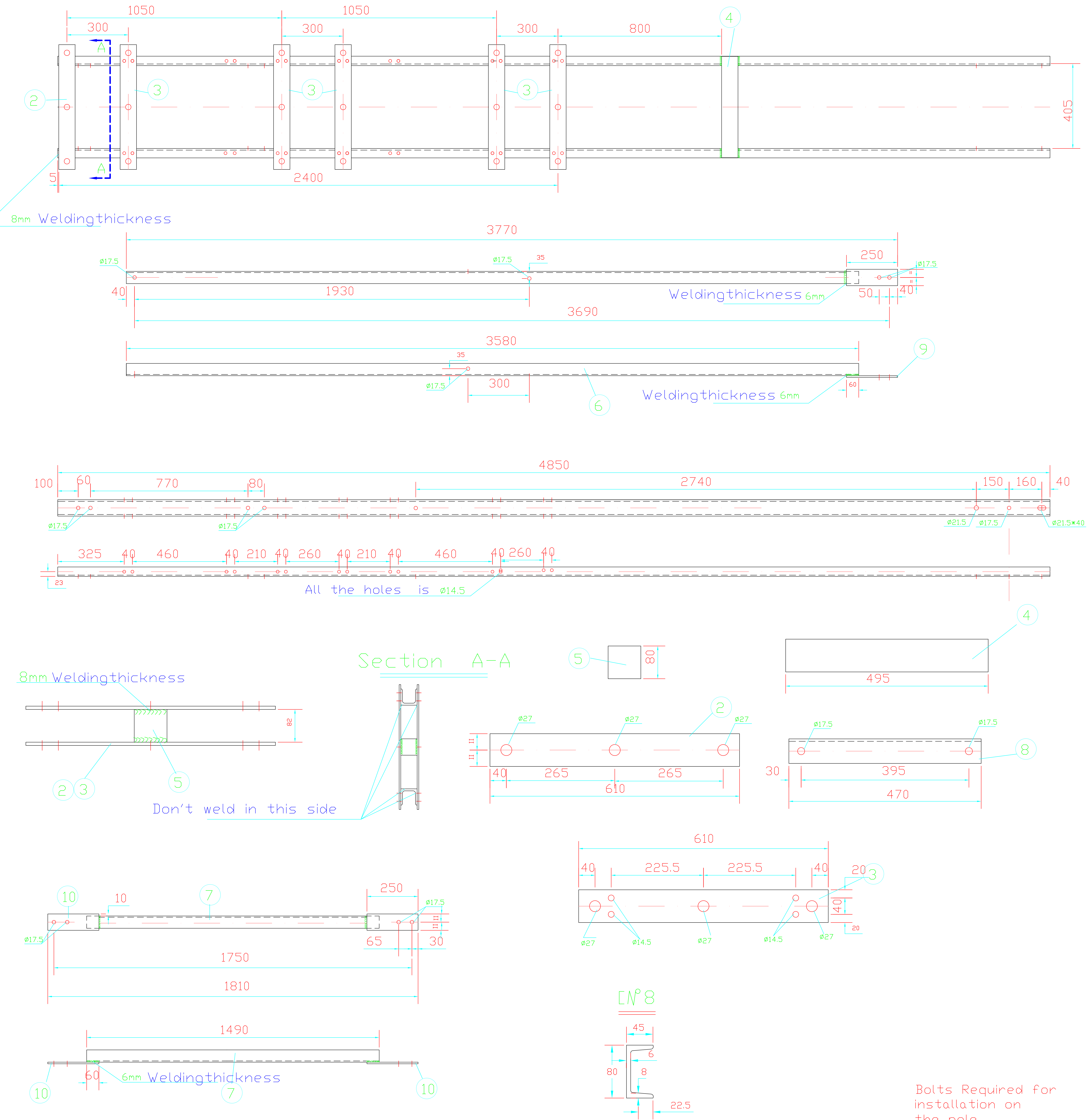
14 UNC Bolt 5/8"\*35mm  
14 Ring washer 5/8"



Hot Galvanized C.S.P  
Suspension Side Arm  
K10354C  
2m at 1st Phase

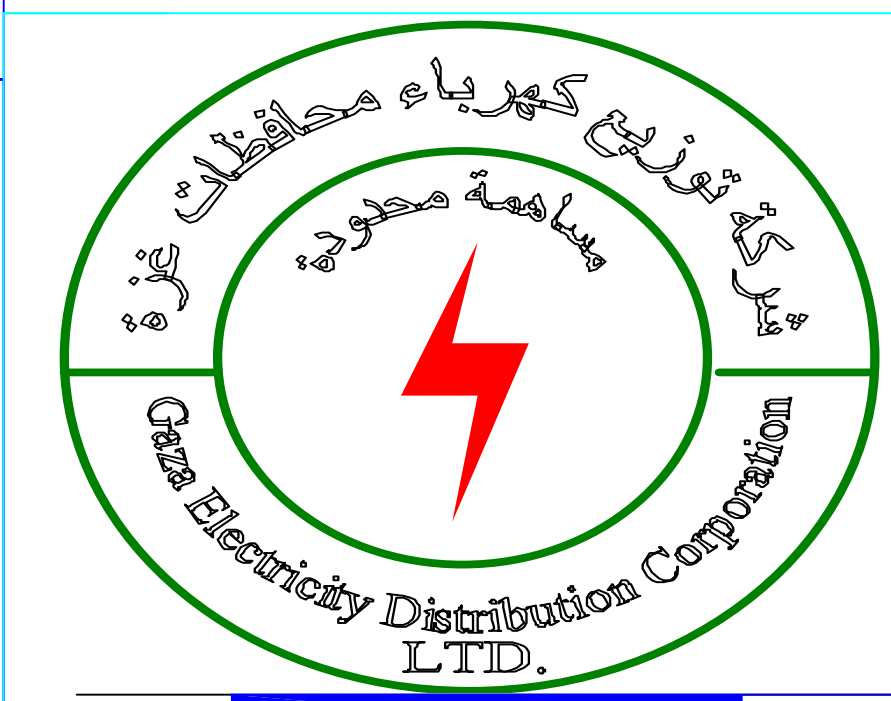
Weight kg	Total mm mesurment	Unit mm mesurment	Description	Quant.	Item
73.3	8480	4240	[N° 8	2	1
14.7	2952	246	Plate 80*8	12	2
42.8	7892	3946	Strut L60*60*6	1R+1L	3
15.9	2960	1480	Strut L60*60*6	1R+1L	4
4.8	960	80	Reinforcing Plate 80*8	12	5
2.5	500	250	Plate 80*8	2	6
5	1000	250	Plate 80*8	4	7
0.8	140	140	Strut L60*60*6	1	8
			UNC Bolt 1/2"*35	48	9
			Spring washer 1/2"	48	10
159.8 Total Weight					

K10601C



Note: All component must be Steel 37.2  
hot dip galvanized

All Welding thickness 8mm



شركة توزيع كهرباء محافظات غزة  
**GEDCO**

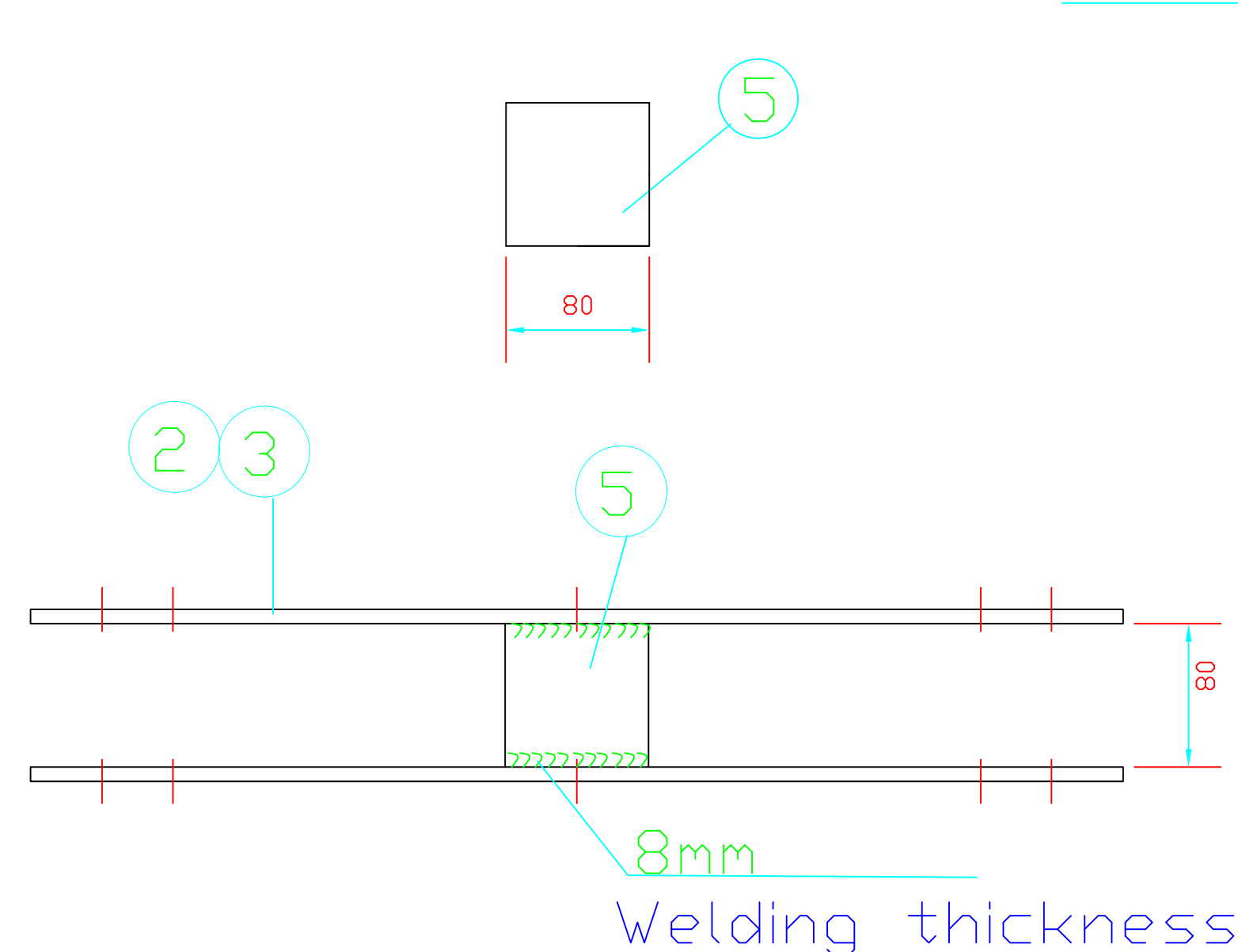
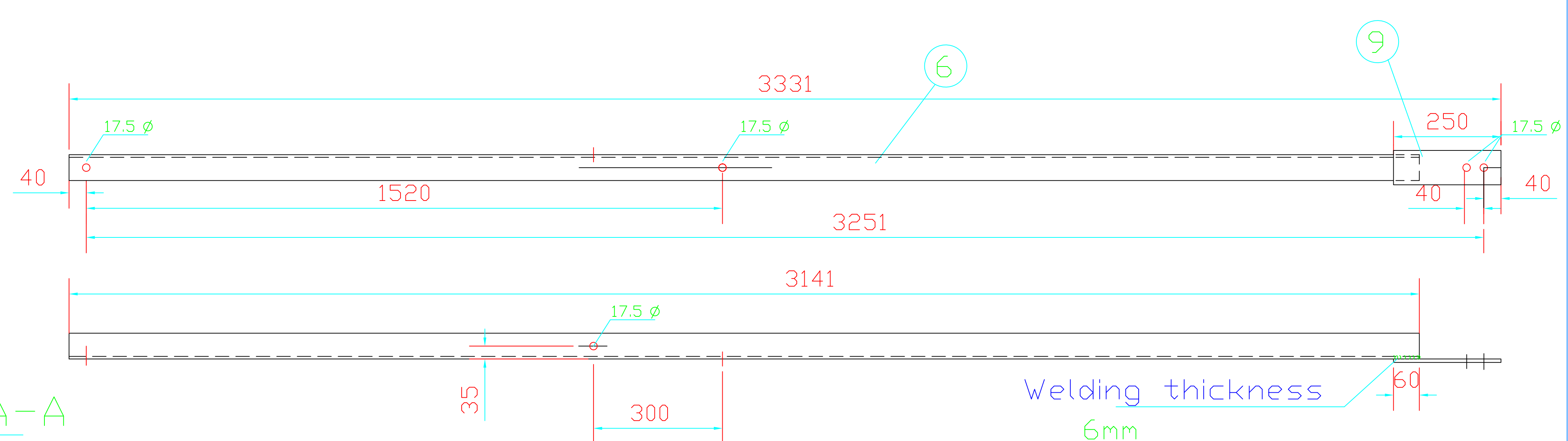
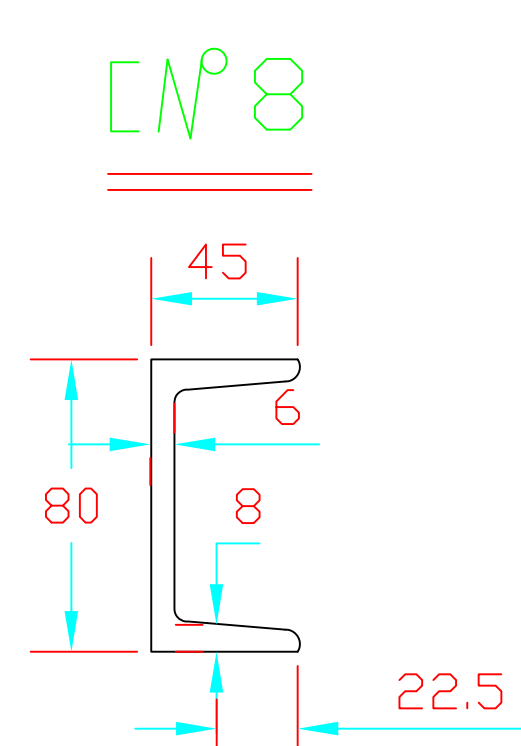
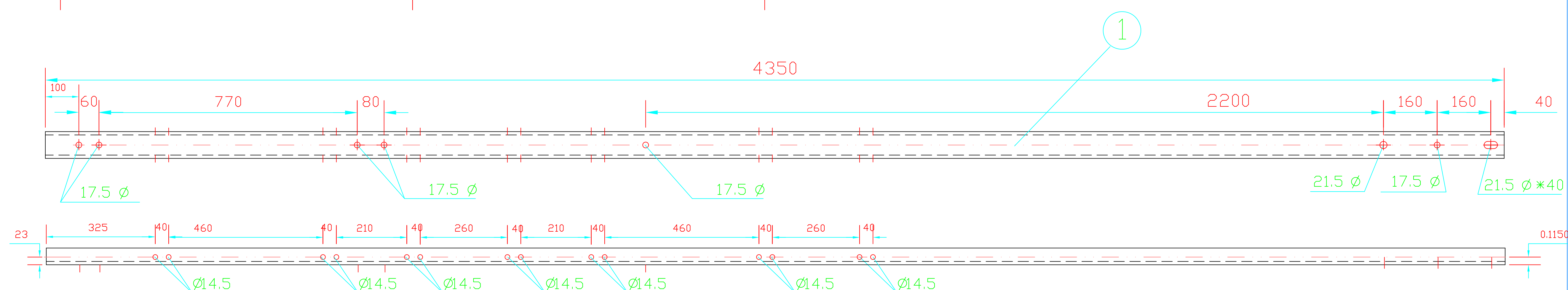
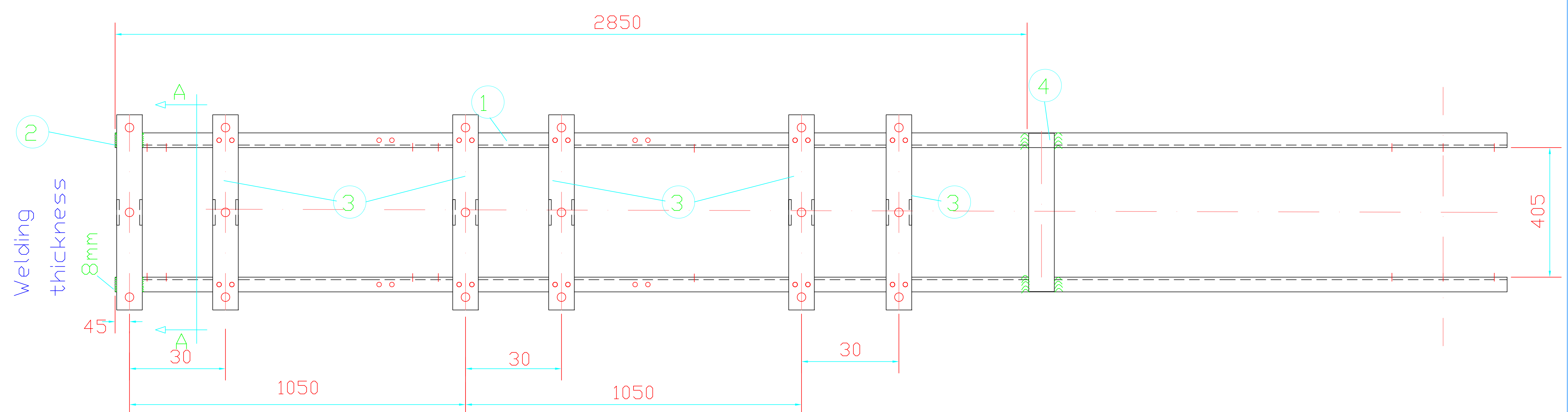
Prepared: Eng. ziad ALHoussaini

Hot Galvanized Lattice  
Pole Suspension Side Arm  
K10601C

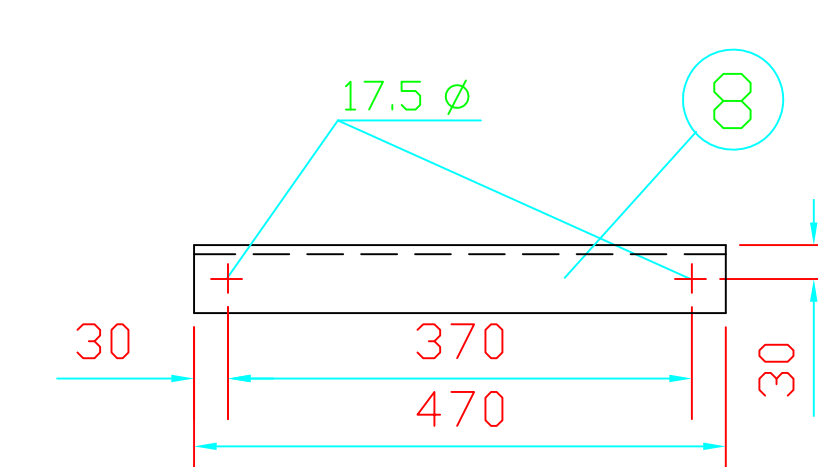
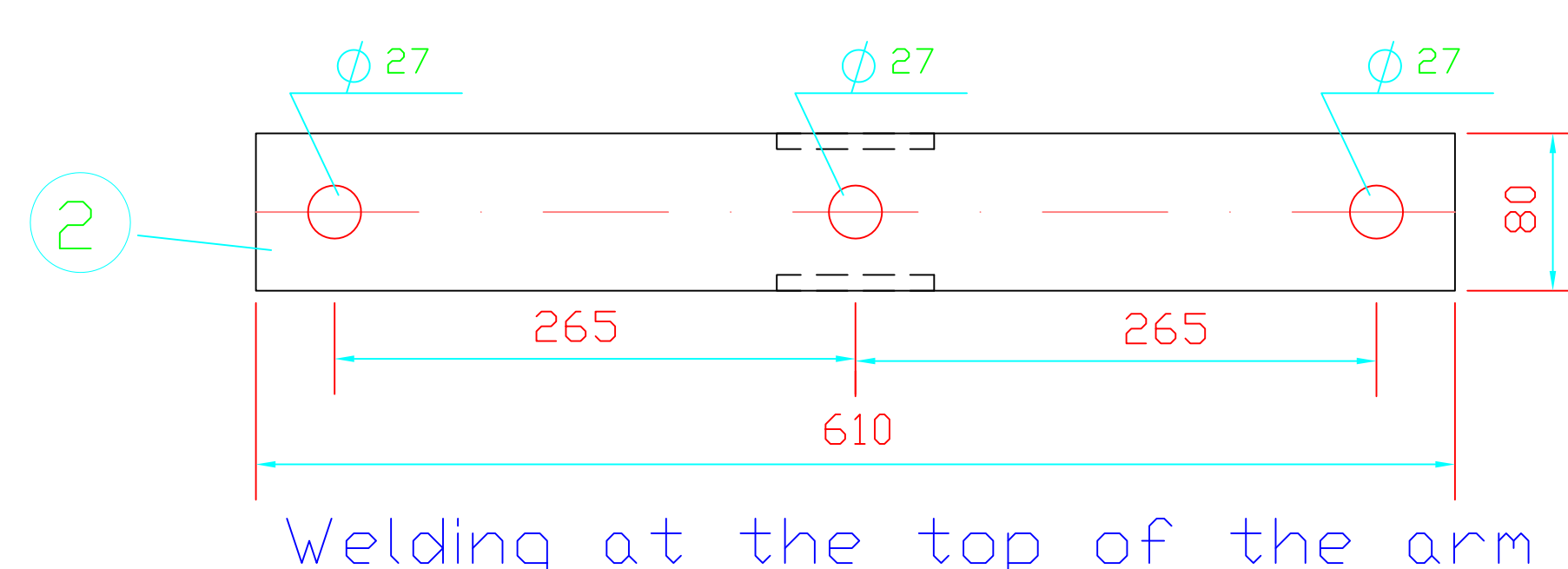
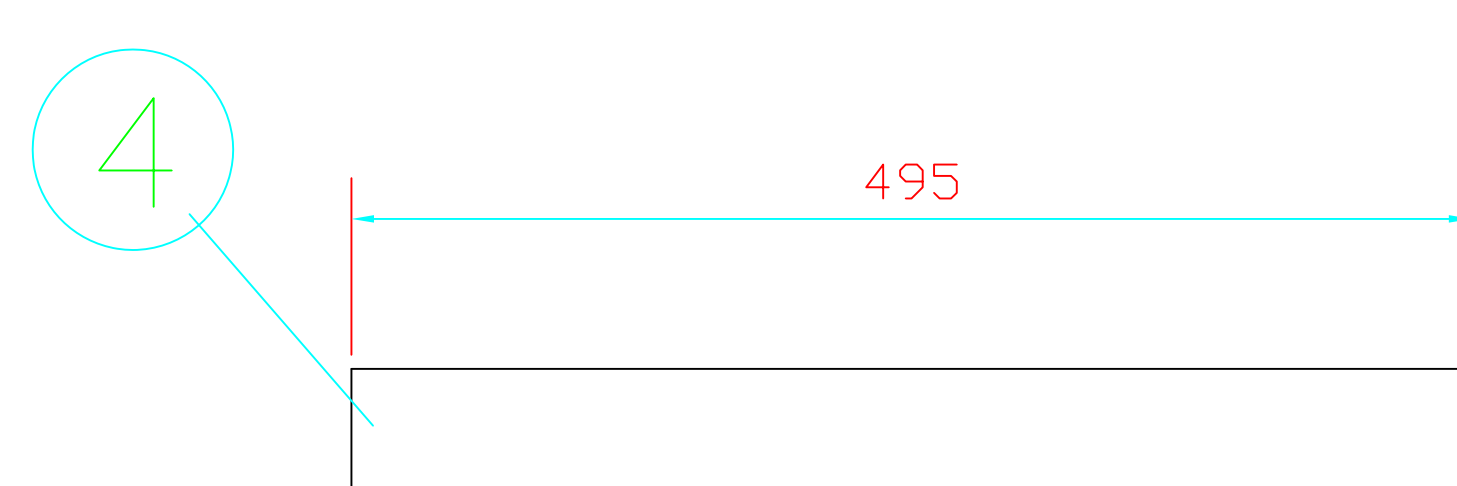
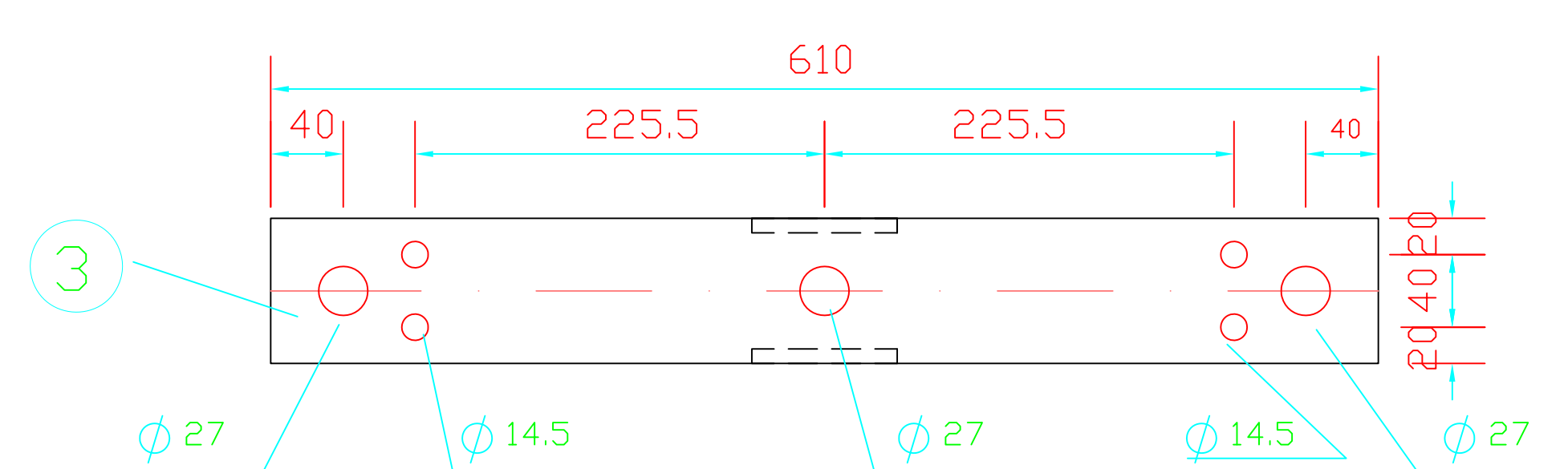
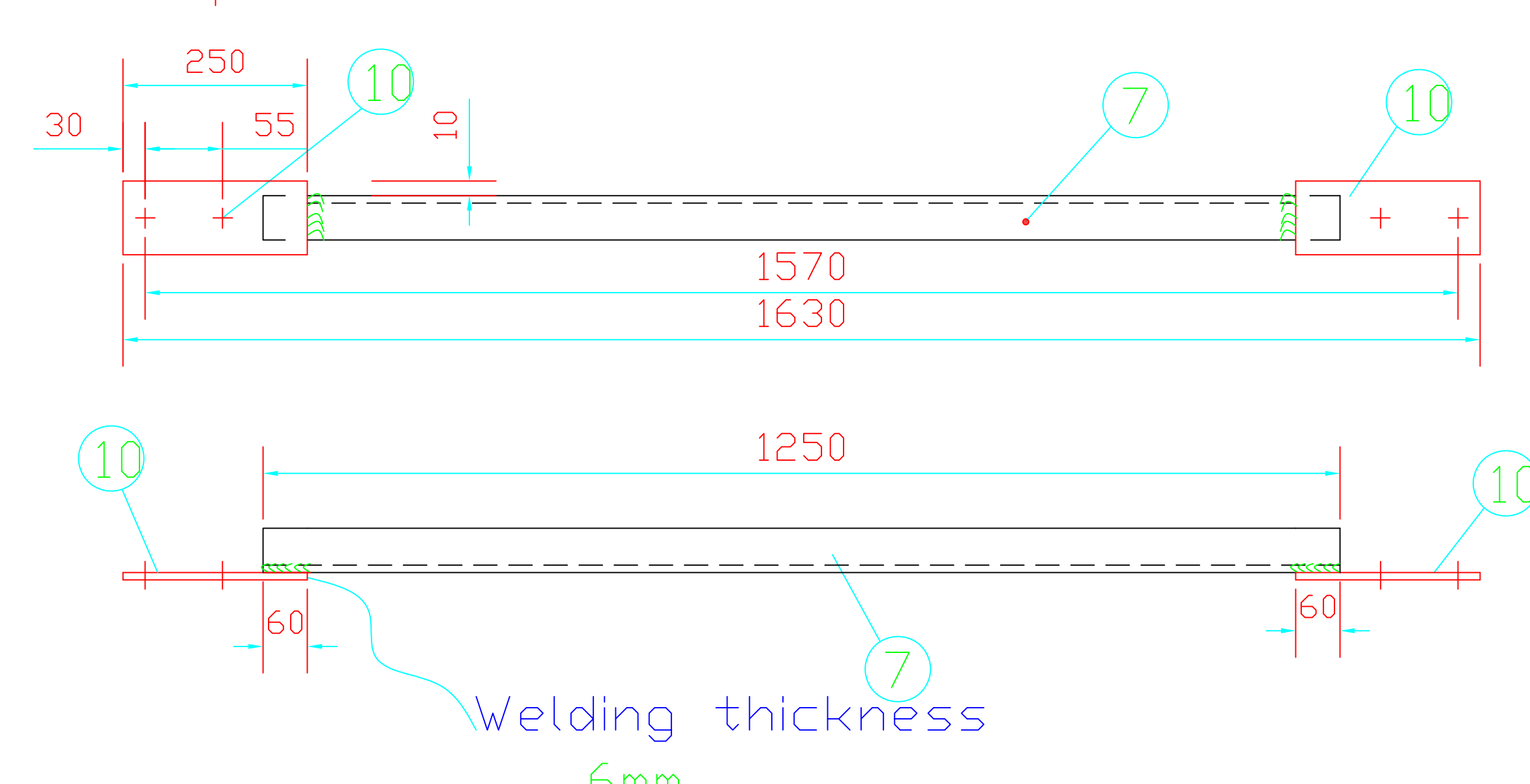
	Weight K.g	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
	83.8	9700	4850	CN <sup>o</sup> 8	1	2
The angle must be fillet	4.3	1220	610	Plate $\nabla 80 \times 8$	2	2
	21.5	6100	610	Plate $\nabla 80 \times 8$	3	10
	5.5	990	495	Plate $\nabla 80 \times 8$	4	2
	4.94	960	80	Support $\nabla 80 \times 8$	5	12
	38.8	7160	3580	Strut L60*6*5	6	1R+1L
	16.2	2980	1490	Strut L60*6*5	7	2
	2.5	470	470	Strut L60*6*5	8	1
	2.5	500	250	Plate $\nabla 80 \times 8$	9	2
	5	1000	250	Plate $\nabla 80 \times 8$	10	4
				UNC Bolt 1/2"*30	11	40
				spring washer 1/2"	12	40



K11404C



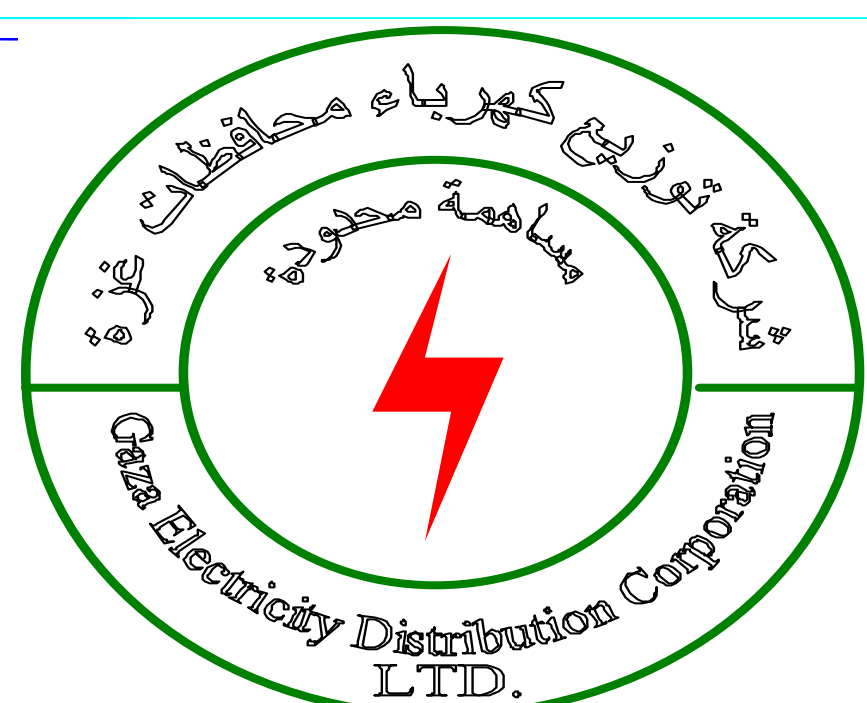
Don't weld  
in this side



Bolts Required for  
installation on  
the pole

- 4 UNC Bolt 3/4"×40mm  
4 square washer 3/4"  
10 UNC Bolt 5/8"×35mm  
10 Ring washer 5/8"

Note: All component must be Steel 37.2  
hot dip galvanized



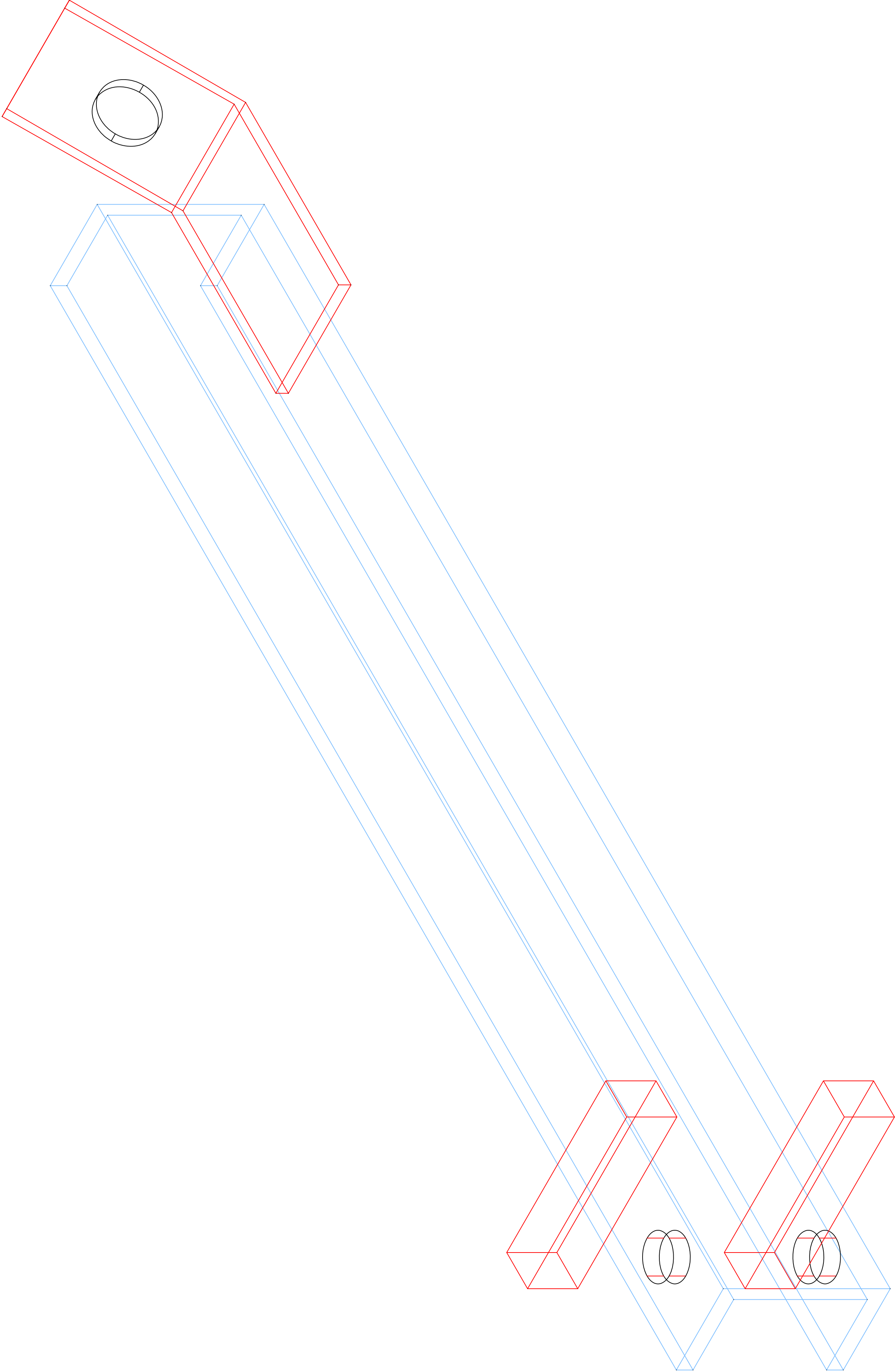
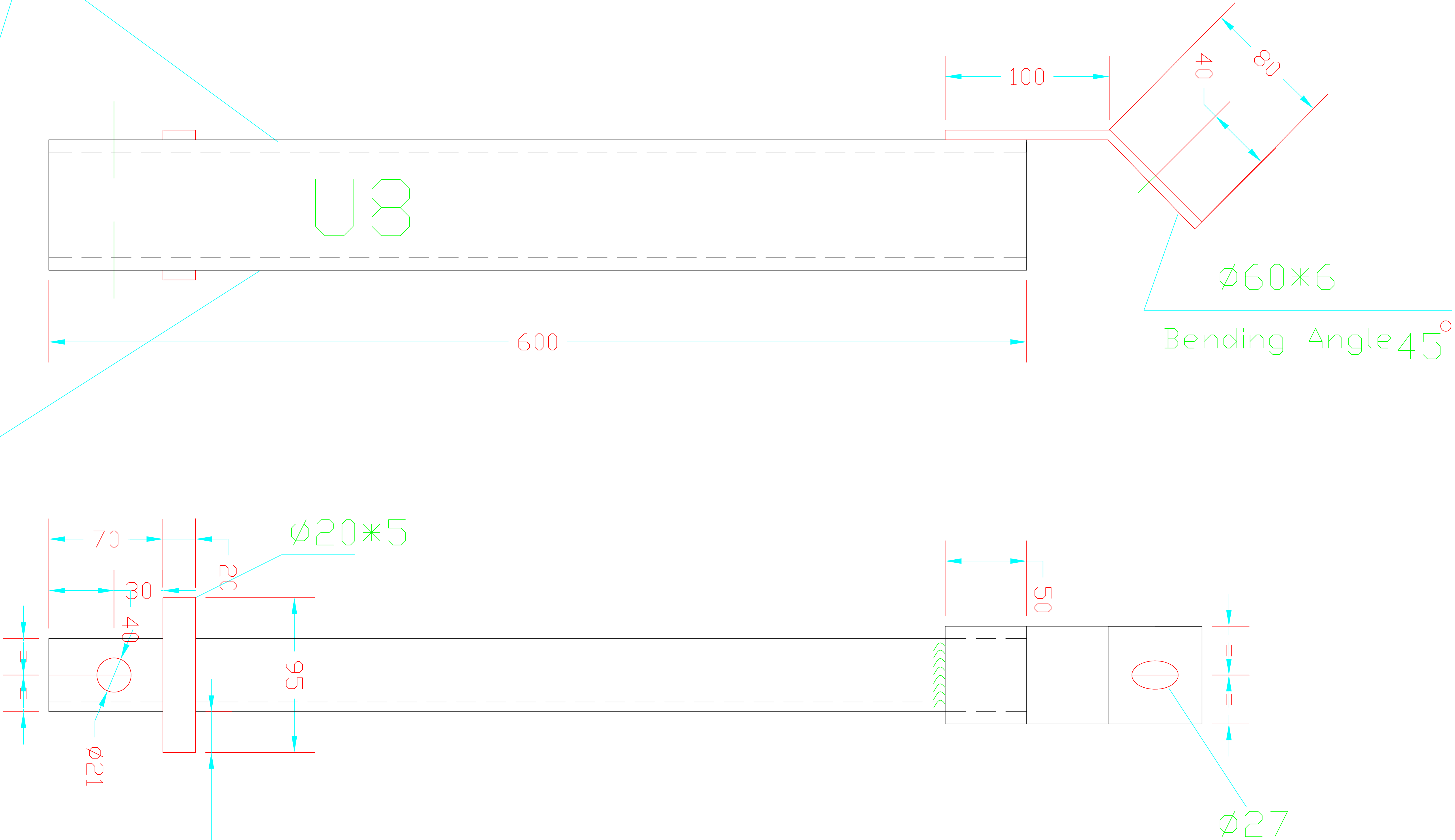
شركة توزيع كهرباء محافظات غزة

Prepared: Eng. ziad ALHoussaini

Hot Galvanized Lattice  
Pole Suspension Side Arm  
K11404C  
2m at 1st Phase

	Weight Kg	Total mm mesurement	Unit mm mesurement	Description	Item	Quant.
	75.2	8700	4350	IN <sup>o</sup> 8	1	2
The angle must be fillet	4.3	1220	610	Plate Ø80*8	2	2
	21.5	6100	610	Plate Ø80*8	3	10
	5.5	990	495	Plate Ø80*8	4	2
	4.8	960	80	Plate Ø80*8	5	12
	34.1	6380	3141	Strut L60*60*6	6	1R+1L
	13.2	2500	1250	Strut L60*60*6	7	1R+1L
	2.5	470	470	Strut L60*60*6	8	1
	2.5	500	250	Plate Ø80*8	9	2
	5	1000	250	Plate Ø80*8	10	4
				UNC Bolt 1/2"*30	11	32
				Spring washer 1/2"	12	32

168.6 Kg Total Weight



Bolts Required for  
installation on  
the pole

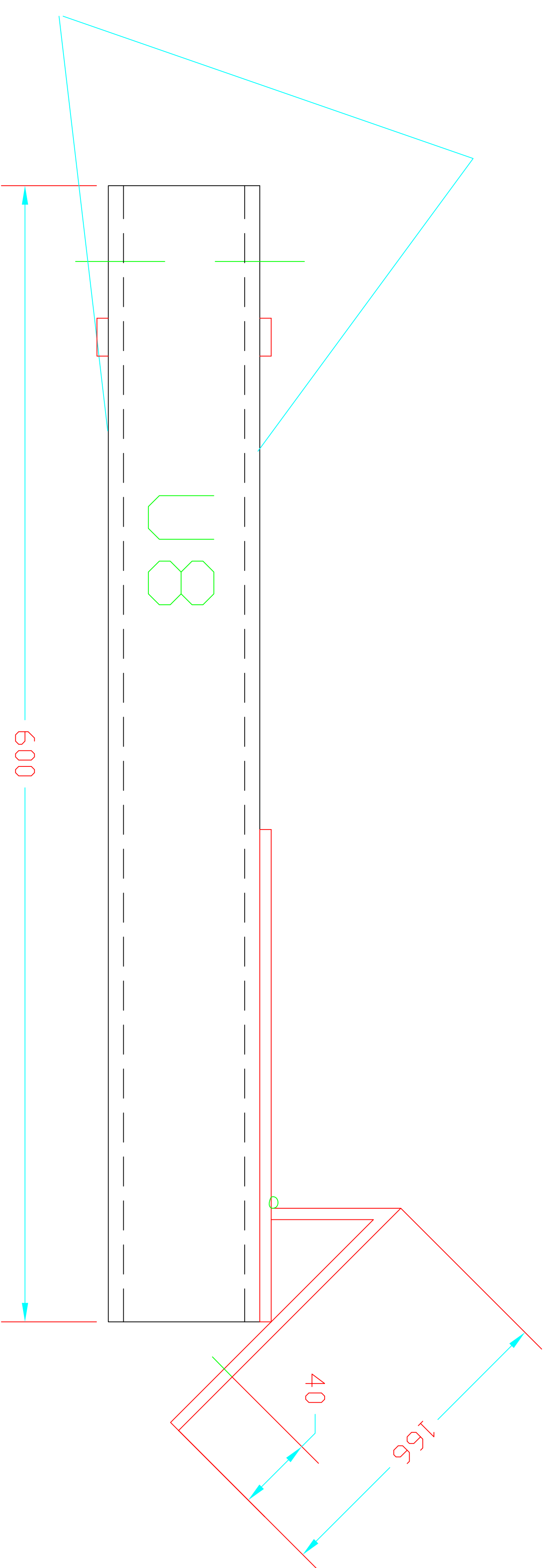
- 2 UNC Bolt 3/4"×35mm
- 2 Ring washer 3/4"

Hot Galvanized Auxilliary  
Steel Arm K12171/1

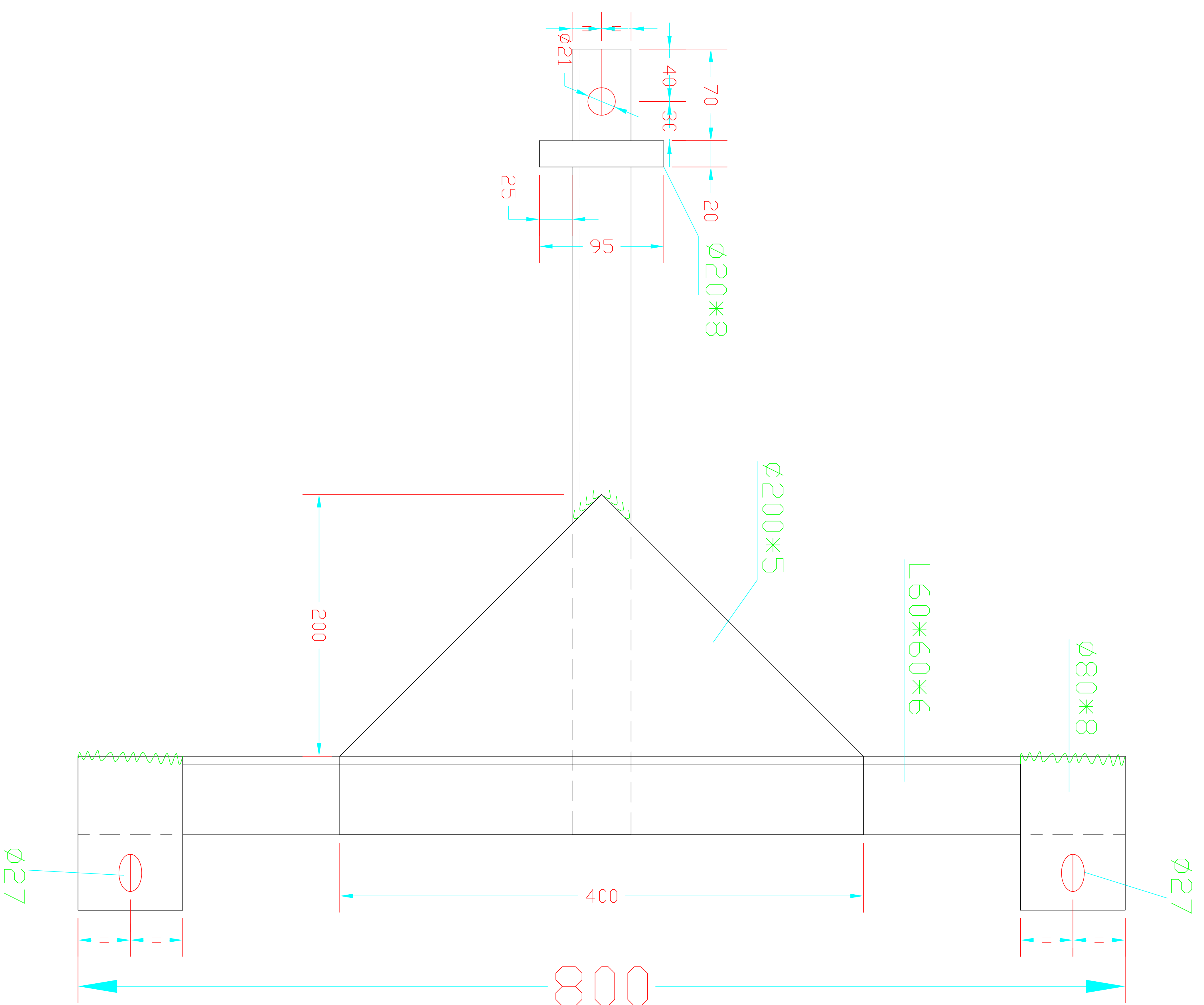


مملكة العربية السعودية  
وزارة الكهرباء والماء  
GEPCO

Prepared: Eng. zaid ALHousami



Don't Weld In this Side



## Bolts Required for installation on the pole

2 UNC Bolt 3/4" \* 35mm

2 Ring washer 3/4"



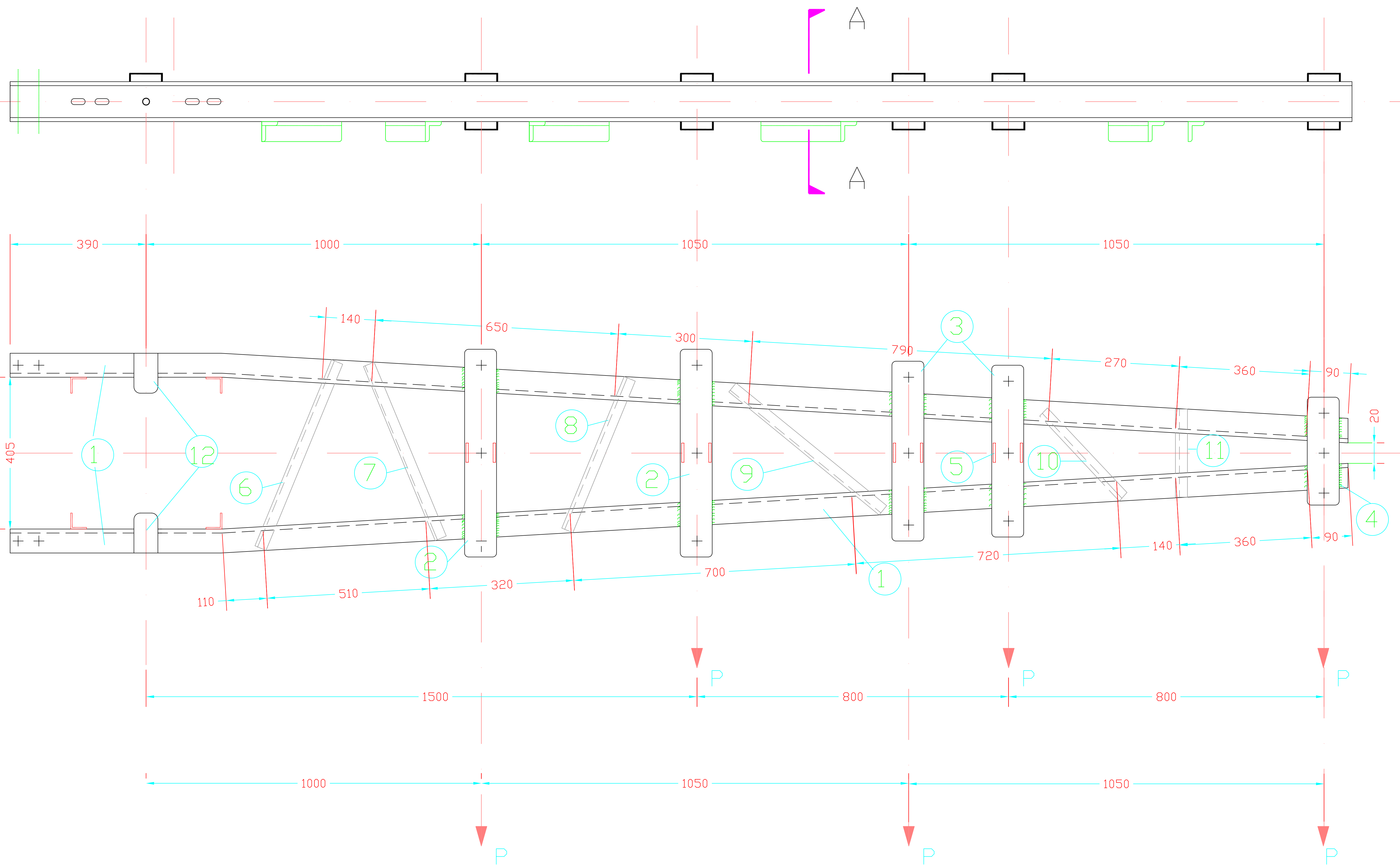
شركة توزيع كهرباء، مصانع خلائق خرة  
GEDCO

**GEDCo**

Prepared: Eng. ziad ALHoussaini
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# Hot Galvanized Auxiliary Steel Arm K12171/2

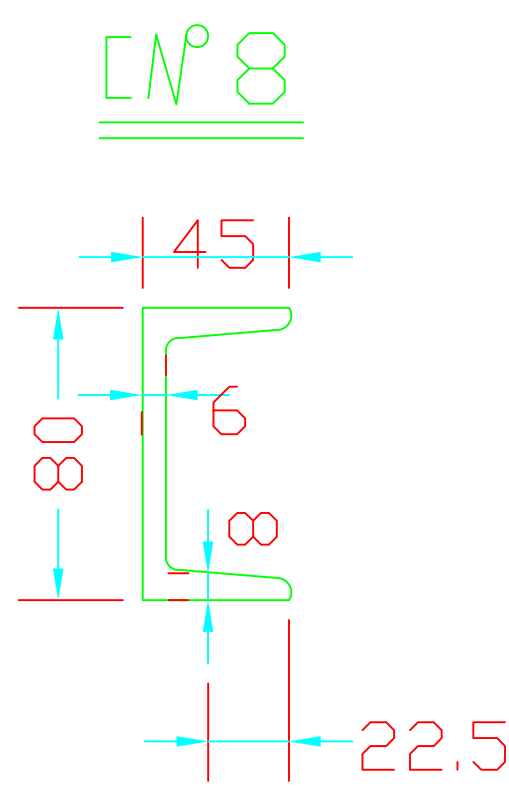




Bolts Required for  
installation on the pole

- 8 UNC Bolt 3/4"\*40mm
- 8 square washer 3/4"
- 2 UNC Bolt 5/8"\*35mm
- 2 Ring washer 5/8"

Note : All component must be Steel 37.2  
hot dip galvanized



Welding thickness  
for Items:

- ②③④ → 8mm
- ⑥⑫ → 4mm



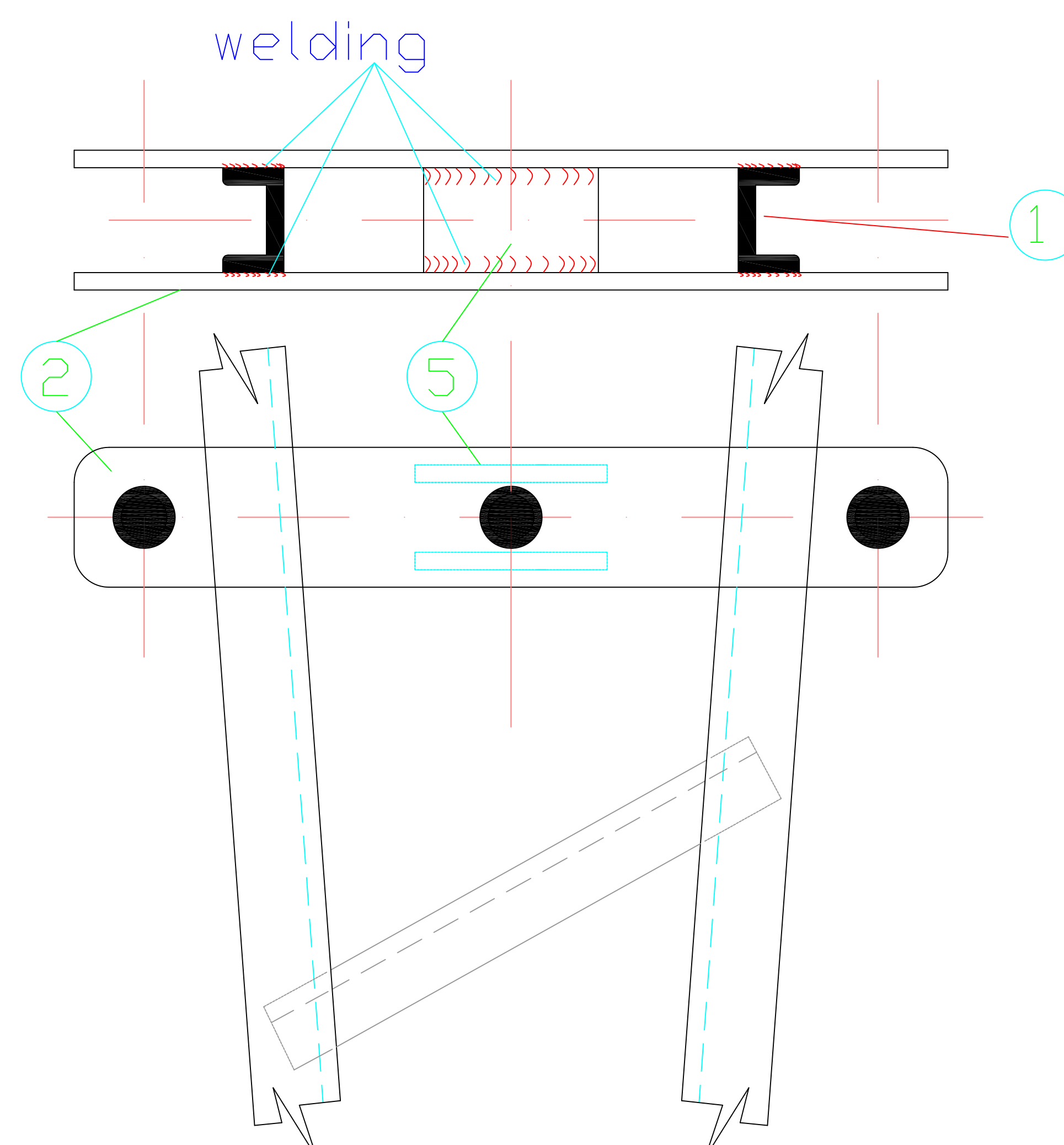
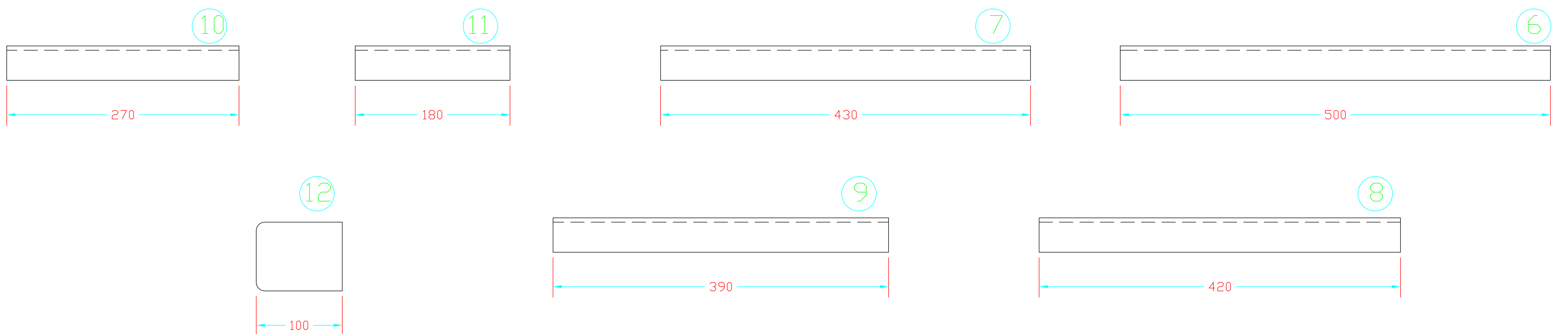
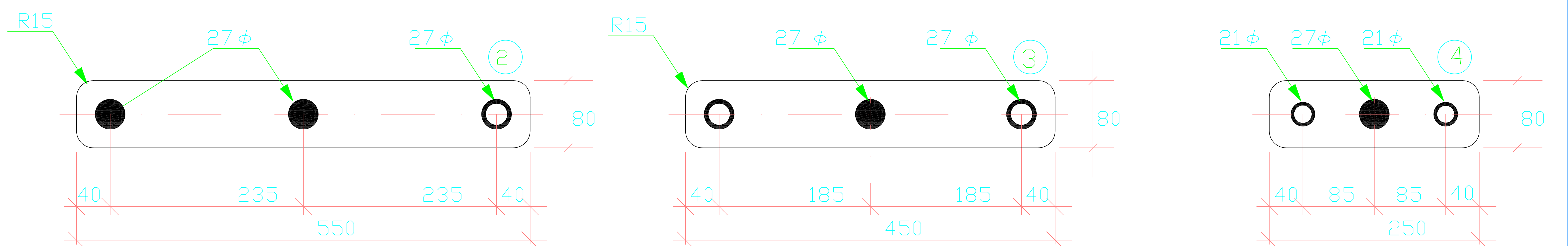
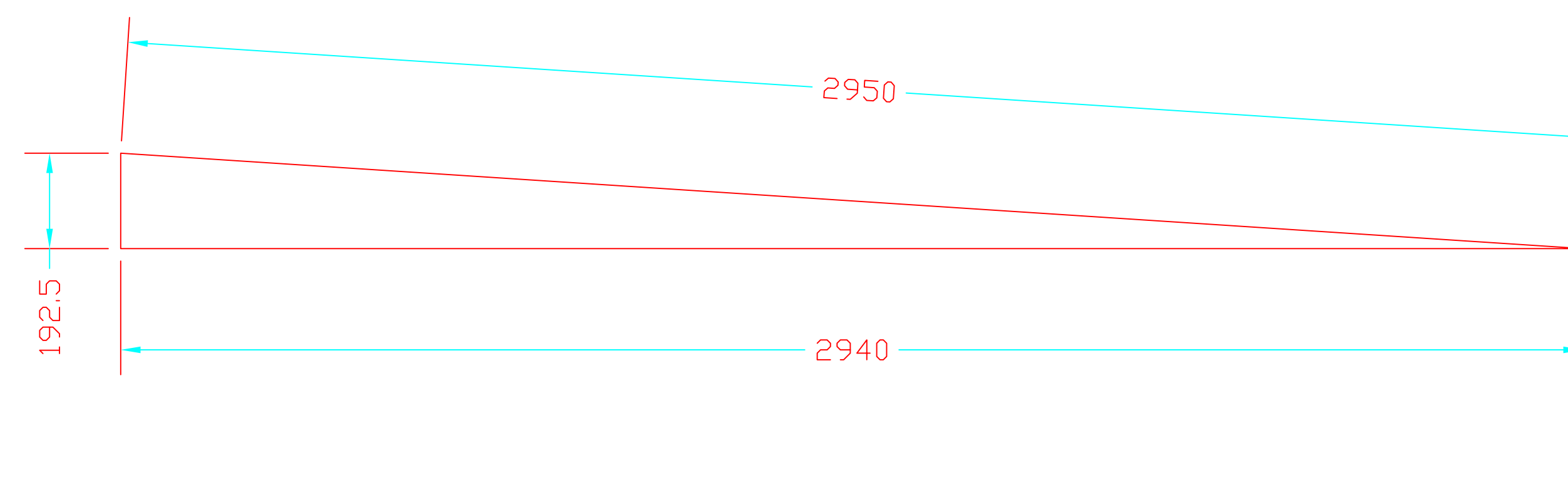
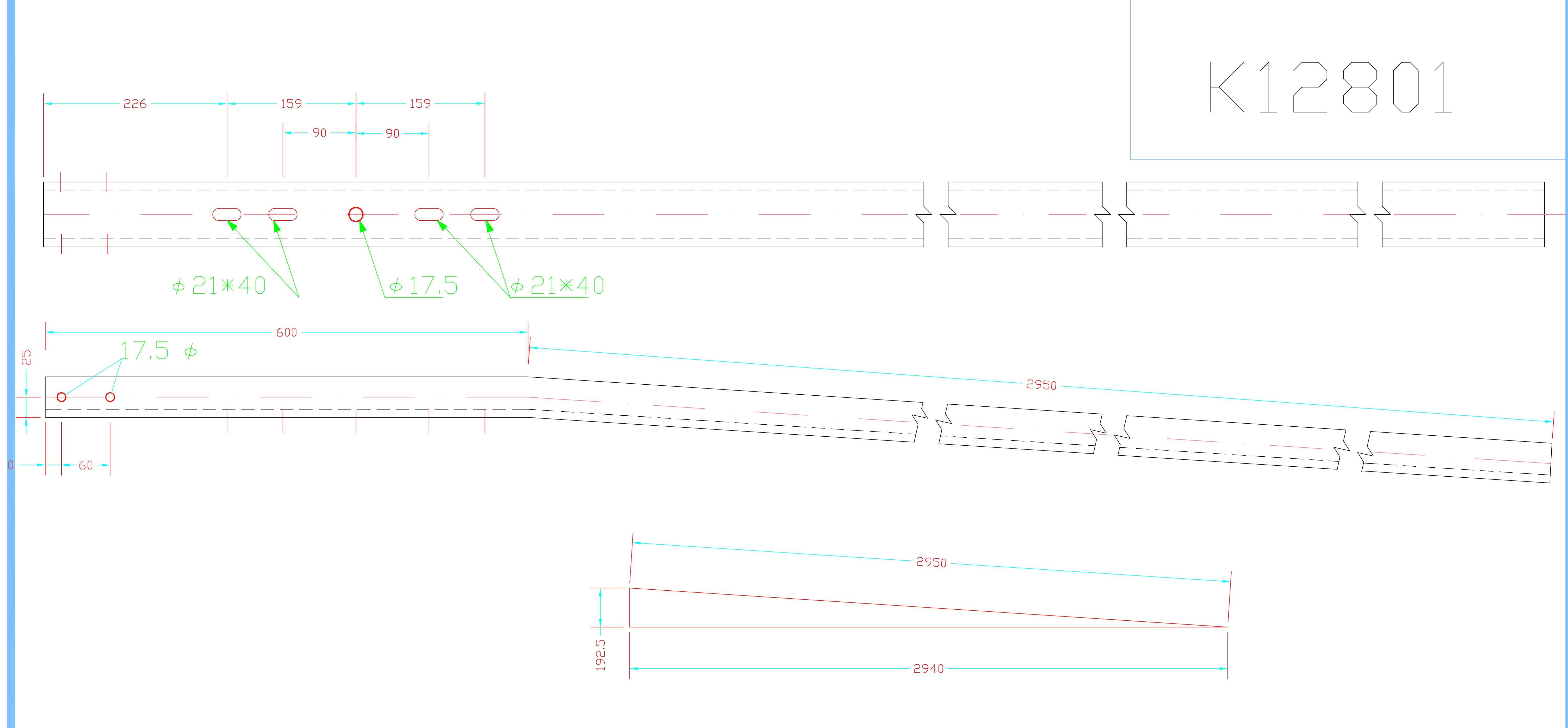
Hot Galavanized Lattice  
Steel Pole Tension Side  
Arm K12801

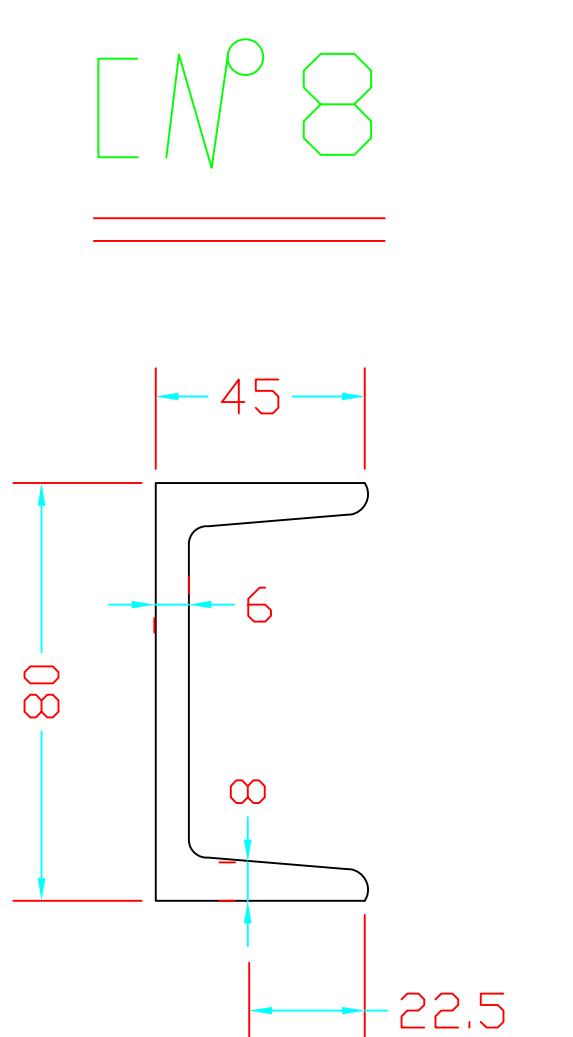
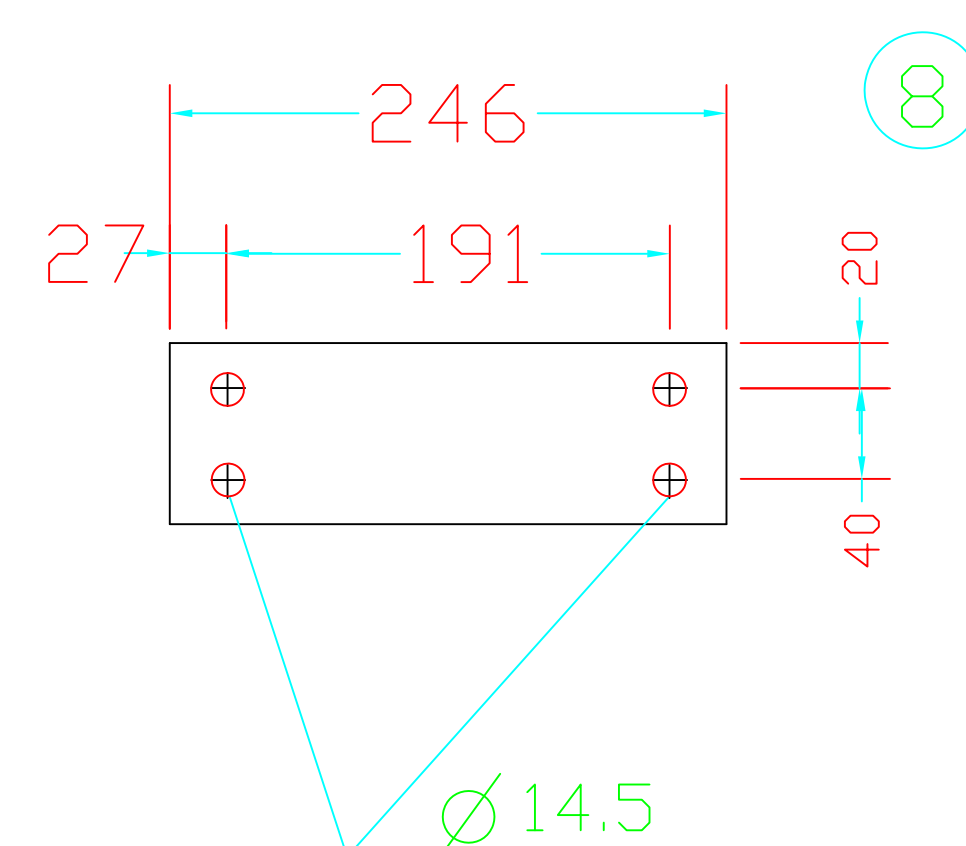
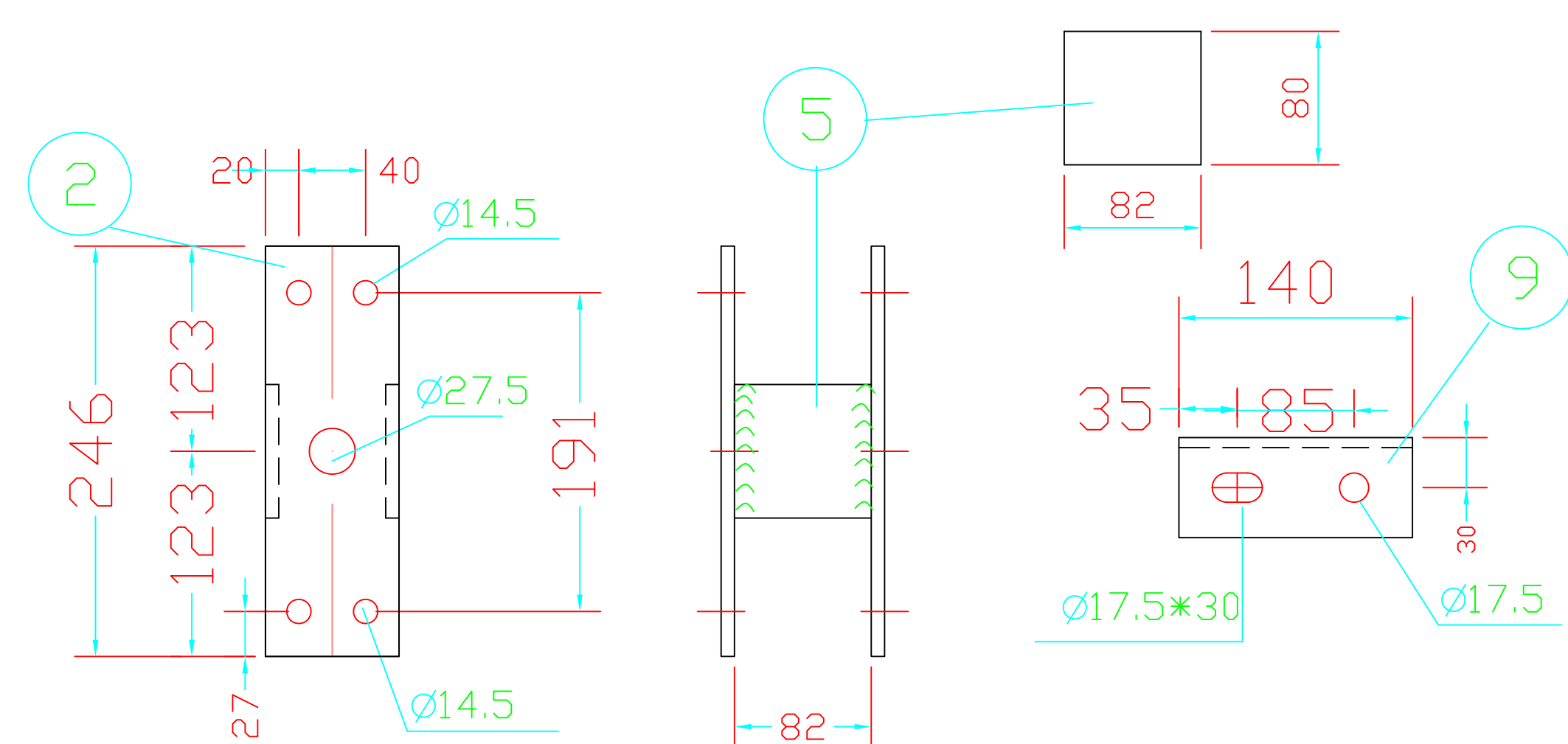
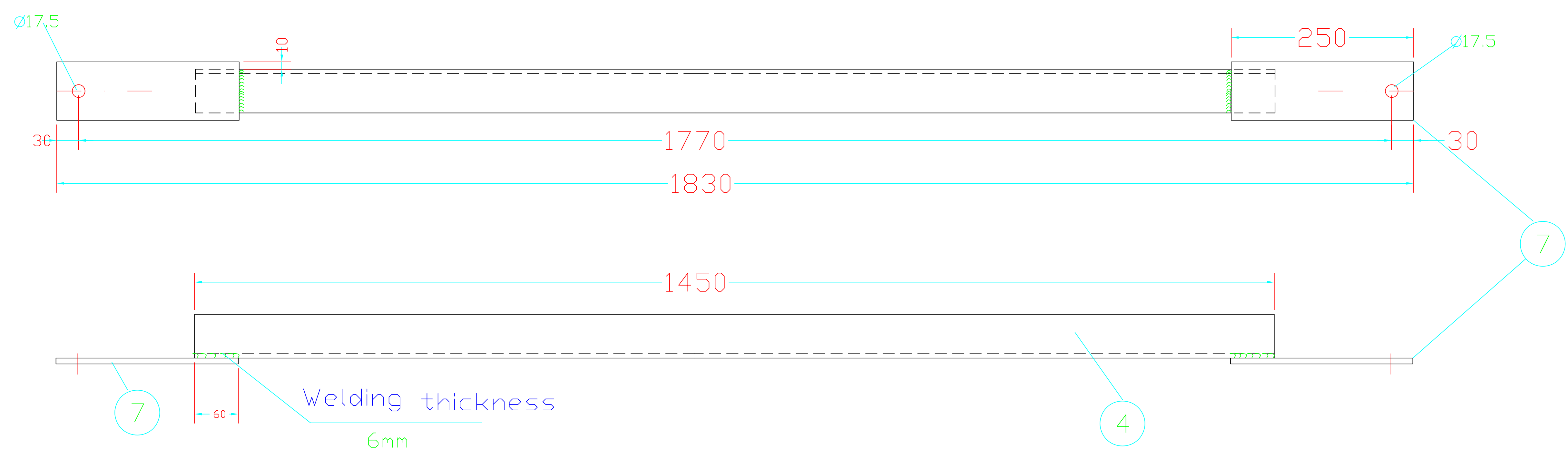
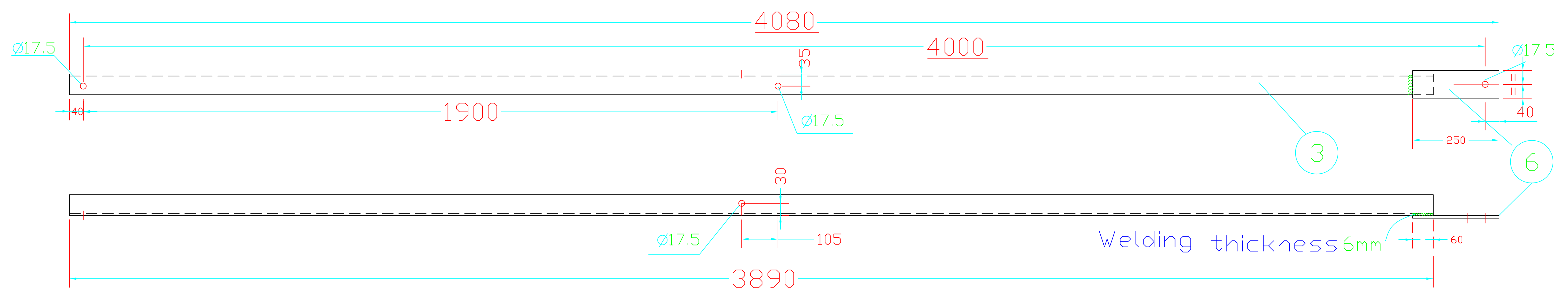
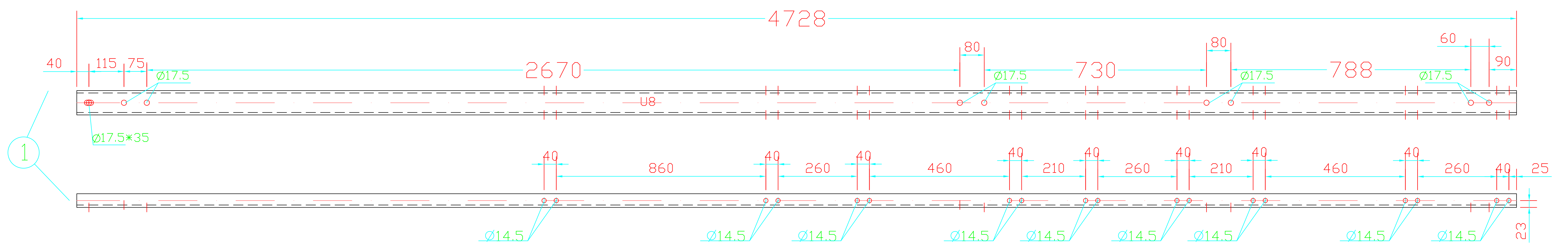
1.0m at 1st Phase

Weight kg	Total mm mesurment	Unit mm mesurment	Description	Item	Quant.
61.2	7100	3550	N° 8	1	1+1
24.7	2200	550	Plate 80*8	2	4
	1800	450	Plate 80*8	3	4
	500	250	Plate 80*8	4	2
	800	100	Plate 80*8	5	8
5.9	2190	500	Strut L40*40*4	6	1
		430	Strut L40*40*4	7	1
		420	Strut L40*40*4	8	1
		390	Strut L40*40*4	9	1
		270	Strut L40*40*4	10	1
		180	Strut L40*40*4	11	1
2kg	200	100	Plate 80*8	12	2

93.8kg Total Weight

K12801



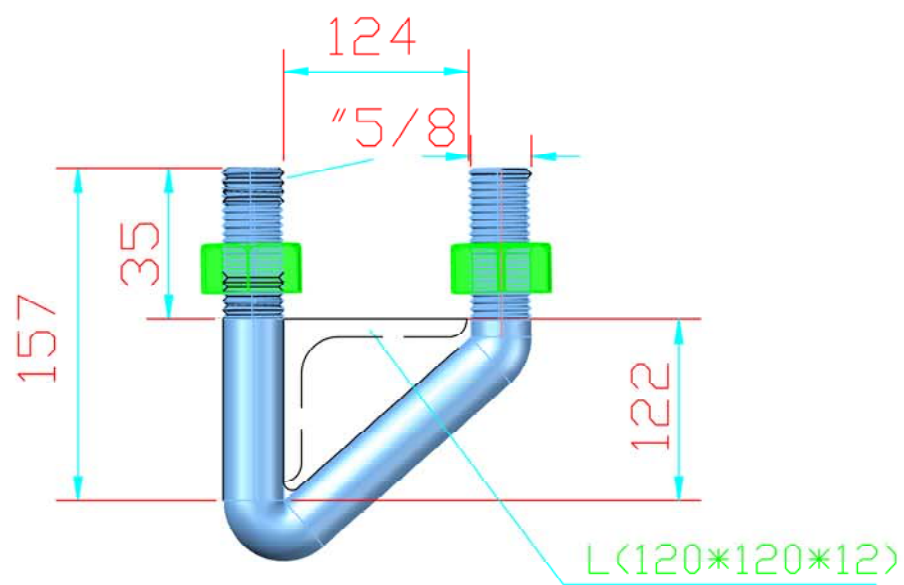


56 Ring washer 1/2"

Prepared: Eng. ziad ALHoussaini

Weight kg	Total mm mesurment	Unit mm mesurment	Description	Quant.	Item
81.7	9456	4728	[N <sup>o</sup> 8	2	1
14.6	8856	246	Plate 80*8	12	2
42.2	7780	3890	Strut L60*60*6	1R+1L	3
15.7	2900	1450	Strut L60*60*6	1R+1L	4
5	960	80	Support 80*8	12	5
2.5	500	250	Plate 80*8	2	6
5.0	1000	250	Plate 80*8	4	7
2.5	492	246	Reinforcing Plate 80*8	2	8
0.8	140	140	Strut L60*60*6	1	9
170kg	Total Weight				



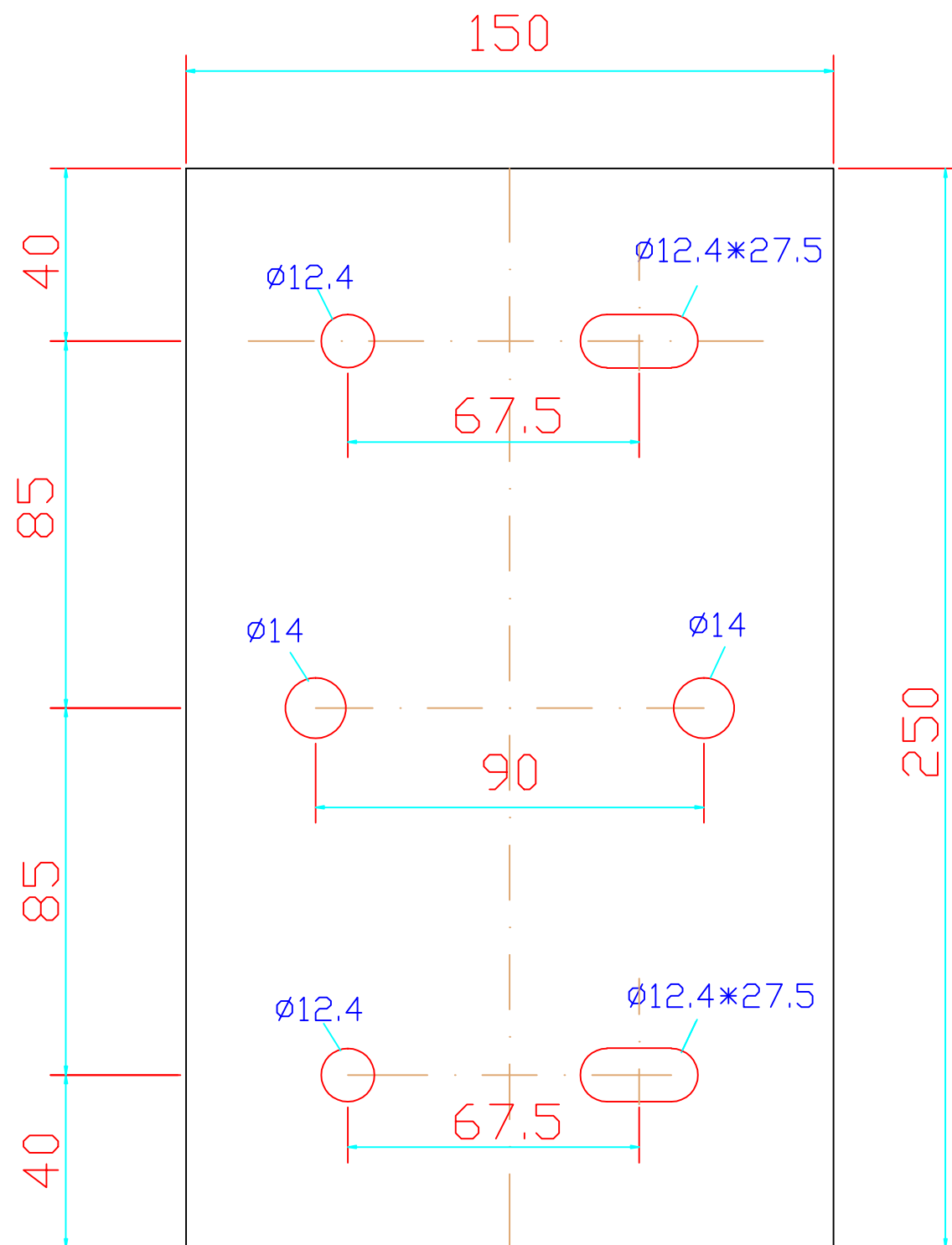


Drawing N4

V-Shaoed angle clamp  
5/8" L120\*120\*12  
according to Drowing N3

PMV\_250

Plate for M.V Cable



Bolts Required for  
installation on the Arm

2 UNC Bolt 1/2"\*35mm



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GEPCo

Prepared: Eng. ziad ALHoussini

Unit mesurment	Description	Item	Quant.
250	Plate 150*3	1	1

Plate for M.V Cable

Nots: All component must be Steel 37.2  
hot dip galvanized

Technical Guarantees No. SCG\_200

Hot Galvanized Steel Cable Guard

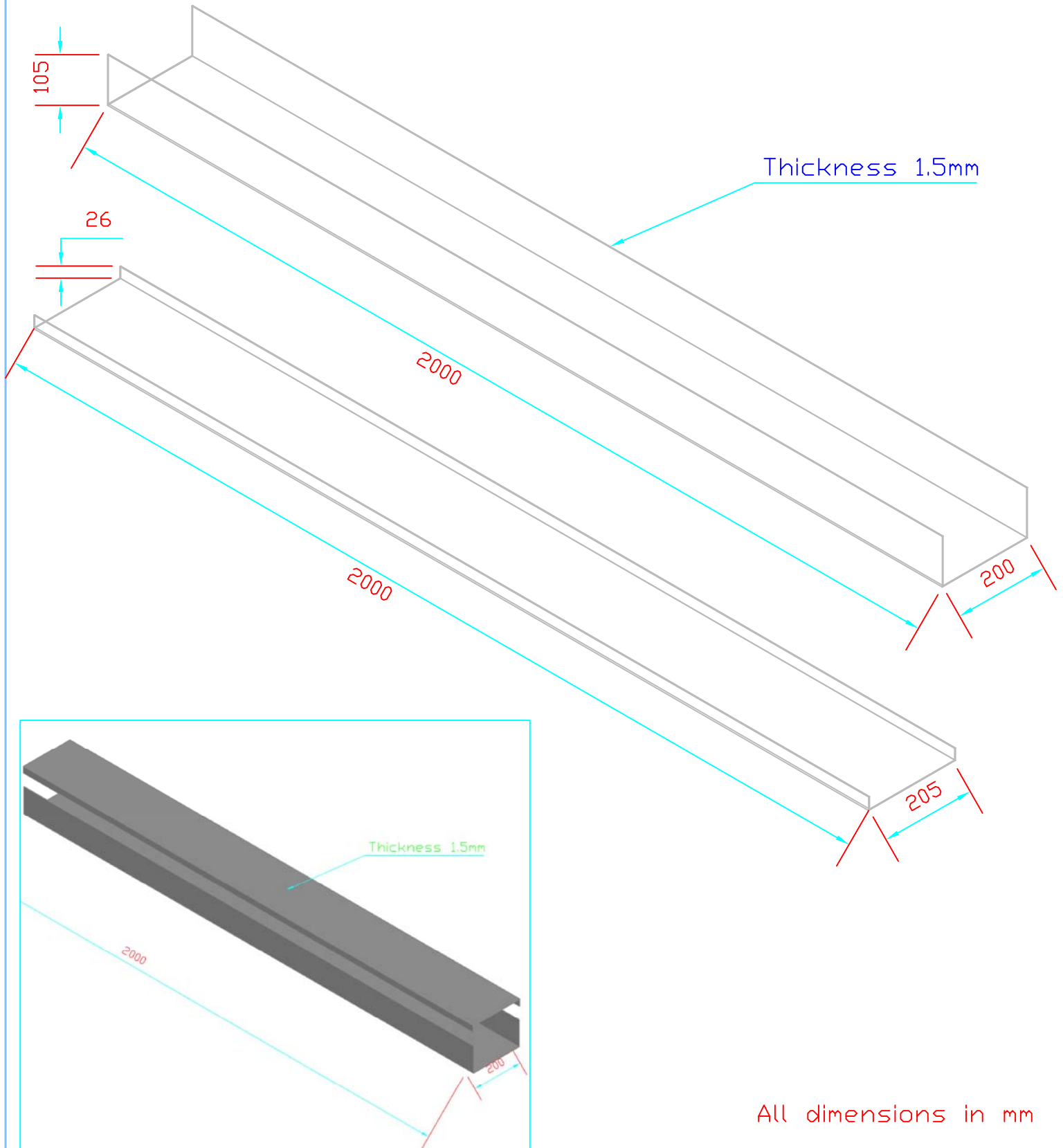
No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Description		Cable Guard			
4	Material		Hot Dip Galvanized			
5	Steel Guard with Steel Cover		Required			
6	Steel Guard and Steel Cover Length	mm	2000			
7	Steel Guard Width	mm	200			
8	Steel Cover Width	mm	203			
9	Steel Guard Edge Hight	mm	105			
10	Cover Edge Hight	mm	26			
11	Steel Guard and Steel Cover Thickness	mm	1.5			
12	Attached Drawing		Drawing No. SCG_200			

Tenderer's Signature : .....

Date: .....

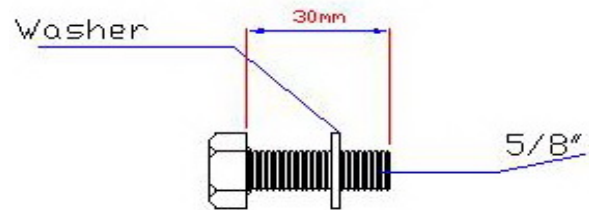
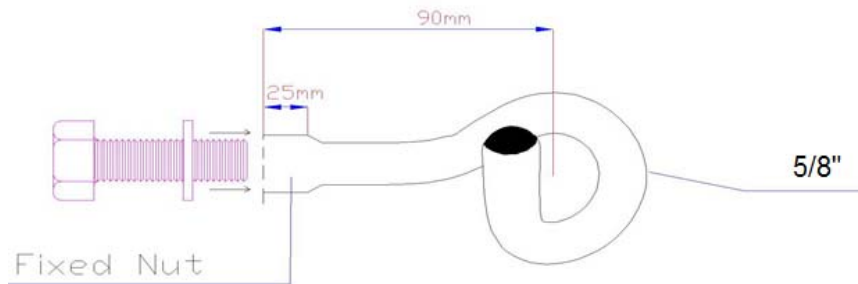


# SCG\_200 Cable Guard



**Technical Guarantees No. TH\_S16C****ABC Tension & Suspension Hot Galvanized Steel Pole Thread Hook M16 Twisted ( 5/8") with Steel Bolt 5/8"**

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Standards					
4	Material		Hot Galvanized Steel			
5	Construction		Hook with Fixed Nut and Suitable Fully Serrated Hot Galvanized Steel Bolt			
6	Hook Total Length	mm	120			
7	Hook Diameter	inch	5/8" (16mm)			
8	Steel Bolt Length		3 cm			
9	Steel Bolt Diameter		5/8"			
10	Failing Load	KN	20			
11	Accessories		Washer for Steel Bolt			
12	Dimensions		As Drawing			



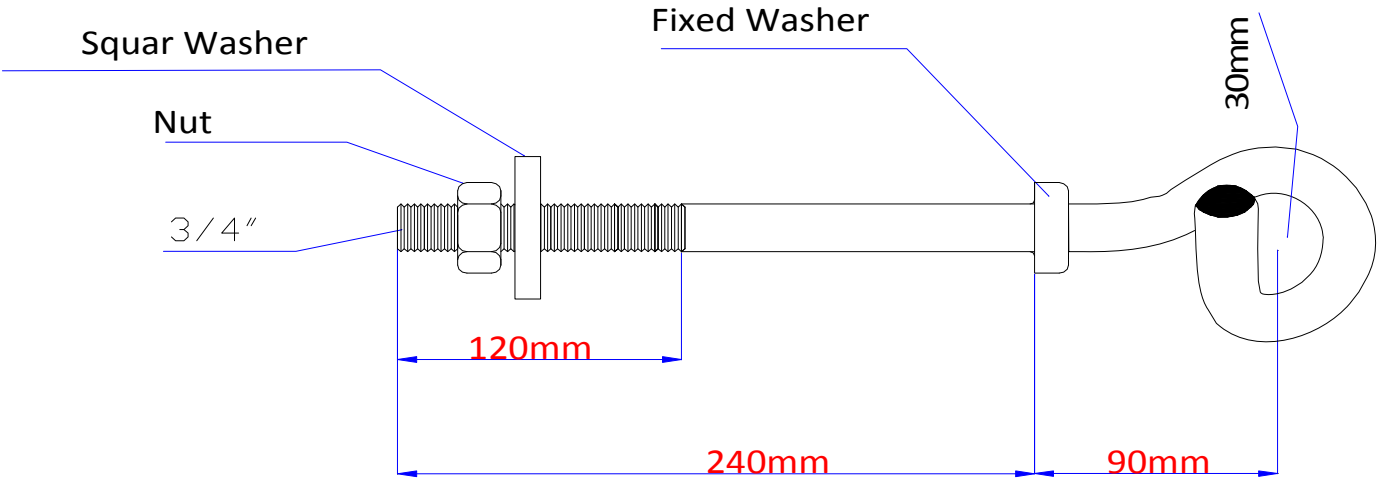
Tenderer's Signature : .....

Date: .....

Technical Guarantees No. TH\_W20

ABC Tension & Suspension Twisted Hook For Wooden Pole through Bolt Pigtail Type M20X240  
With Nut 3/4"

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	Reference Standards					
4	Material		Hot Galvanized Steel			
5	Construction		Nut and Washer and Fixed Washer			
6	Total Length	mm	345			
7	Hook Diameter	inch	3/4" (20mm)			
8	Nut Failing Load	KN	24			
9	Dimensions		As Drawing			



Tenderer's Signature : .....

Date: .....



**Technical Guarantees No. WP\_85****Impregnated Wooden Pole 8.5 m Long Top Diameter 150-180 mm**

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
1	Name of Manufacturer					
2	Country of Origin					
3	General Standards		BS144 , BS913 , BS1990:Part1, BS4072			
4	Height	m	8.5			
5	Upper diameter (Min.-Max.)	mm	150-180			
6	Min. Diameter at 1.5m from butt	mm	215			
7	Species of timber		Pine			
8	Full Botanical Name		Pinus Sylvestris			
9	Pole Shape		With a smooth surface, Straight ,Generally Round , Free from Sweeps and Crooks , Top of the Pole shall be cut at an angle not less than 30°			
10	For Unstayed Poles : Ultimate Breaking Load at 0.6 m from top of pole	KN	8.2			
11	Where Stay are Used : Average ultimate fibre stress	KN	77.8			
12	<b>Poles Impregnated with Creosote By Rueping Process</b>	Yes/No	shall be filled by manufacturer			
	<b>If Yes :</b>					
	Creosote Detained in Wood	kg/m3	115 (min)			
	Preserved Life Cycle of Wood	year	shall be filled by manufacturer			

**Technical Guarantees No. WP\_85****Impregnated Wooden Pole 8.5 m Long Top Diameter 150-180 mm**

No	Description	Unit	Requirements	Offered Data	Notes, Remarks , Ref to Documentation	Evaluation Committee Comments
13	<b>Poles Impregnated with Mixed Preparatus</b>	Yes/No	shall be filled by manufacturer			
	<b>If Yes :</b>					
	Chemical Formula of Preparatus		shall be filled by manufacturer			
	Net Dry Salt Amount in Pole	kg/m3				
	Preserved Life Cycle of Wood	year	shall be filled by manufacturer			
	Relevant Reports and References					
14	Test Certificate		Required			
15	Marking with aluminium Plate		Required			
16	Wooden Poles Marking Drawing		Drawing No. WP_85			

Tenderer's Signature : .....

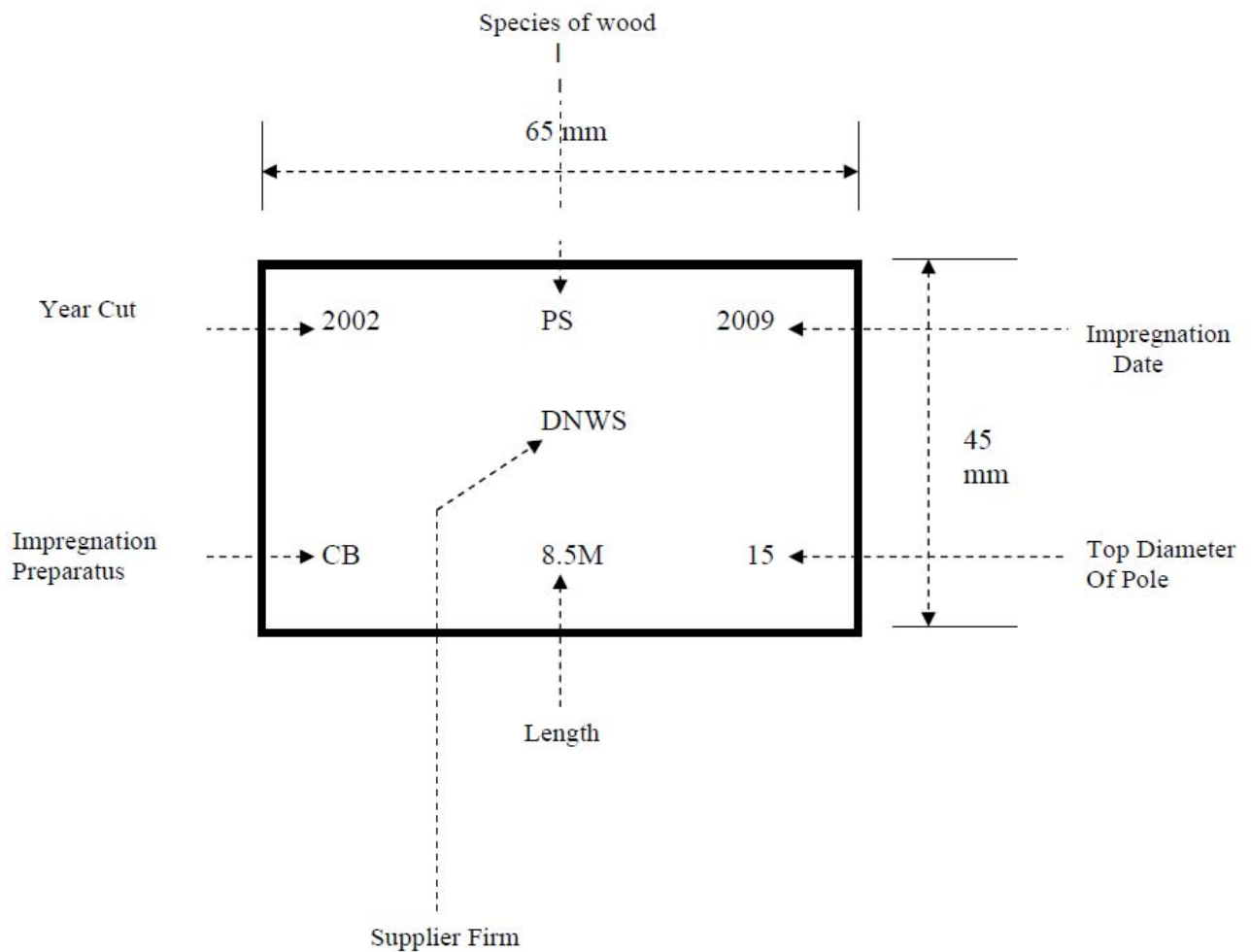
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## THE MARKING OF THE WOOD POLES

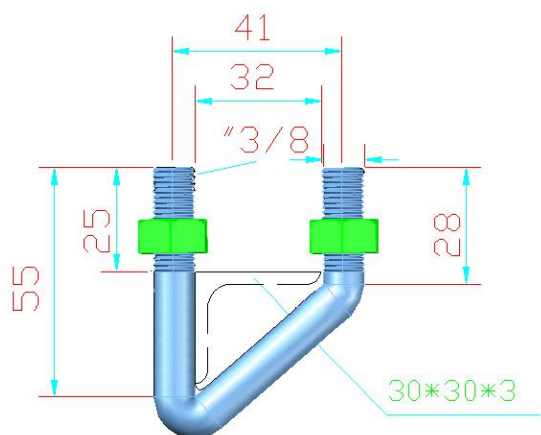
The wood poles shall be marked firmly by Aluminium labels, which will contain the following information:

- Type of the tree
- Length (m)
- Top diameter (cm)
- Impregnation material
- Impregnation year
- The Abbreviation of the Firm

Such marked Aluminium plackets shall be nailed at 4 meter high measured from the base of the Pole.







Drawing X1

V-Shaped angle clamp  
3/8" L30\*30\*3

according to Drawing N1  

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For K82



شركة توزيع الكهرباء - دولة الكويت

EDC

Prepared:  
Eng. ziad ALHosaini