

<b>PROJECT:</b> Warehousing & Logistic Park at Umm Shaharain 1		<b>EMPLOYER:</b> 		<b>N°:</b> 2536-MT-CI-0042 Rev. 0
<b>CONTRACTOR</b> 		<b>CONSULTANT:</b> 		<b>RECEIVED</b> 
<b>MATERIAL APPROVAL REQUEST</b>				

We request shop Drawings approval for the following items


<b>Submittals</b>		<b>Categories</b>		<b>Location</b>	Street Lighting Poles Foundation
<input checked="" type="checkbox"/> New Submittal		<input type="checkbox"/> Architectural		<b>Zone</b>	-
<input type="checkbox"/> Resubmittal 1		<input type="checkbox"/> Structural		<b>Block</b>	-
<input type="checkbox"/> Resubmittal 2		<input type="checkbox"/> Mechanical		<b>Building</b>	-
<input type="checkbox"/> Resubmittal 3		<input type="checkbox"/> Electrical		<b>Floor</b>	-
<input type="checkbox"/> Resubmittal 4		<input checked="" type="checkbox"/> Civil		<b>Axes</b>	-

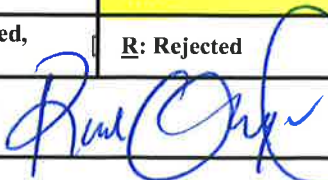


The material submitted for approval has been checked for conformity with drawings and specifications and any deviations noted herein:

Material Description:	Anchor Bolts "L type" for Street Lighting Poles Foundation		
Type of Material:	Hot-dipped galvanized Anchor Bolts "L Type" Grade 8.8		
Drawing Reference	2536-SD-EX-CI-EL-GE-012 Sht.001 Rev.00		
Specification Clause	N/A		
Fixing Location:	Street Lighting Poles Foundation		
Technical Literature Attached	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Sample Attached	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
Compliance Sheet Attached	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
Manufacturer:	Baseline Bolts Industries L.L.C.		
Country of Origin:	U.A.E.		
Local Agent:	Baseline Bolts Industries & Trading W.L.L. Marketing		
Type of Shipment	Land <input checked="" type="checkbox"/>	Sea <input checked="" type="checkbox"/>	Air <input checked="" type="checkbox"/>
Anticipated Period of delivery from placing order	N/A		
Anticipated period when material to be used on site:	N/A		

<b>Contractor's Representative:</b> Andre Korkomaz 	<b>Date:</b> 22-November-2017
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Remarks, Comments:

SEE COMMENTS ON PAGE 2 OF THIS SUBMITTAL. 

<b>Status</b>	<b>A:</b> Approved <input type="checkbox"/>	<b>AAN:</b> Approved As Noted <input checked="" type="checkbox"/>	<b>RR:</b> Revise, Resubmit <input type="checkbox"/>	<b>CA:</b> Conditional <input type="checkbox"/>
	<b>NAR:</b> Not Approved, Resubmit <input type="checkbox"/>	<b>R:</b> Rejected <input type="checkbox"/>	<b>NFD:</b> Need Further Detail <input type="checkbox"/>	<b>N:</b> Noted <input type="checkbox"/>
<b>Engineer</b>	Signature by: 			Date: 27/11/2017
<b>Contractor</b>	Received by: 			Date: 
Approval shall not relieve the Contractor of his liabilities under the Contract or constitute authorization of any change to the Contract Documents				

Specification Reference Number:		
Contract Specifications	Proposed Material	Remarks
As per Shop Drawing	Anchor Bolts "L Type"	Attachment
<ul style="list-style-type: none"> <li>Anchor bolts "L Type" 18mm, 20mm, 24mm, 32mm</li> </ul>	<ul style="list-style-type: none"> <li>Hot-dipped galvanized Anchor Bolts "L Type" Grade 8.8</li> <li>Anchor bolt diameter: 18mm, 20mm, 24mm, 32mm.</li> <li>Supplier is nominated by the client. See attached Client site instruction no. 72</li> </ul>	<ul style="list-style-type: none"> <li>Product data Sheet</li> <li>Sample material test certificate. Delivered anchor bolts will be supported by updated test certificates</li> <li>Previous material approval</li> <li>Client Site instruction No.72</li> <li>Reference drawing details and shop drawing</li> </ul>


Contractor's Representative: Andre Korkomaz  Date: 22-November-2017

**COMMENTS:**

1) PROVIDE/SUBMIT MATERIAL SAMPLE FOR EACH TYPE/DIAMETER/SIZE OF THE ANCHOR BOLTS TO BE USED FOR THIS WORK.

2) ATTACH COPIES OF MATERIAL TEST REPORTS CONDUCTED BY THIRD PARTY LABORATORY FOR THE M18, M20, M24 & M32 ANCHOR BOLTS, TO CONFIRM THE IN-HOUSE TESTS RESULT CONDUCTED BY BASELINE BOLTS INDUSTRIES LLC FOR SUCH ANCHORS.

3) THE MATERIAL SAMPLES TO BE SUBMITTED SHALL BE BASED FROM THE ALREADY APPROVED ANCHOR BOLTS SIZES & LENGTHS FOR THIS WORK.



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**Attachment 1 - Product Data Sheet**

**Attachment 2 – Material Test Certificate**

**Attachment 3 – Previous Approval**

**Attachment 4 – Site Instruction No. 72**

**Attachment 5 – Reference Drawing**

# **Attachment 1**

## **Product Data Sheet**



**BASELINE BOLTS INDUSTRIES L.L.C**  
 CERTIFIED TO ISO 9001 : 2008 QUALITY MANAGEMENT SYSTEM



PRODUCT CATALOGUE



[www.baselinebolt.com](http://www.baselinebolt.com)

- ❖ Construction Bolts
- ❖ Hex Bolts
- ❖ L - Bolts
- ❖ Stud Bolts
- ❖ Tie Rods
- ❖ Anchor Bolts
- ❖ U - Bolts
- ❖ J - Bolts
- ❖ Base / Anchor Plates
- ❖ Nuts / Washers etc..

**Our experience enables us to manufacture a wide array of industrial fasteners and cater to diverse requirements of industrial segments like:**

- |                        |                    |                   |
|------------------------|--------------------|-------------------|
| Oil and Gas            | Construction       | Heavy Engineering |
| Pipe Lines and Flanges | Pump & Compressors | Chemical          |
| Fertilizer Chemicals   | Petrochemical      | Pressure Vessels  |
| Heat Exchangers        | Valve              | Power             |

## OUR COMPANY:

Baseline Bolts Industries L.L.C., U.A.Q, Dubai is a part of Baseline Group of companies in incorporating the stockholding , manufacturing and supply of high quality , high integrity , special standard and non standard fasteners servicing the oil and gas , petrochemical, construction, power ....etc

## OUR TIE-UPS.

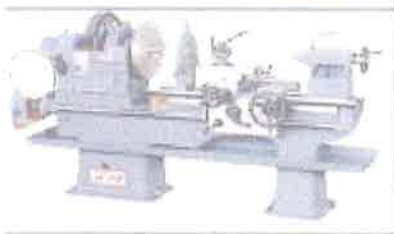
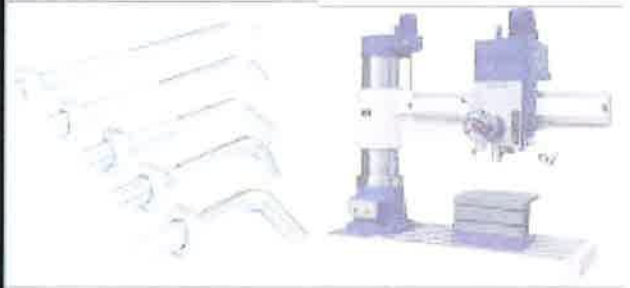
We have got tie-ups with **Accelinn International Limited**, U.K on all area of production/ manufacturing of bolting and this offers the bolting with European quality standards.

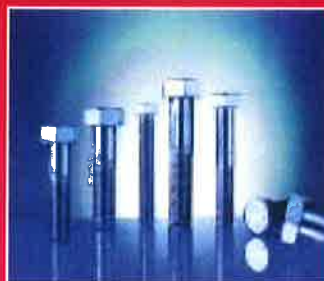
## OUR DEMAND :

We are able to offer individual solutions with highest quality standard as a component partner, whether for the supply of a single product or the coordination of a complex project. Test our efficiency when realizing your next requirement or project.

## OUR COMMITMENT/OUR VALUE

We are totally committed to quality on all our supplied products. We are working as per ISO 9001-2008 Quality Management System established through TUV, Germany. We will be supplying our products with Materials, Test Certification and if the client requires our materials will be tested with local authorized laboratories on chemical/mechanical etc...





## Glossary

### Copper Alloys

Aluminium Bronze	B150, CA 104, DGS 1043/1044 NES 833/834/835
Phosphor Bronze	PB102
Cupro Nickels	70/30,90/10

### Alloy Steel

ASTM A193	B7, B7M, B16, B5
ASTM A194	2H,2HM,3,4,7,7M, 16
ASTM A320	L7, L7M, L43
BS 3692	Grade 10.9,12.9

### Galvanizing

Hot Dip Galvanizing	ASTM A 153 ASTM A 123 BS EN ISO 1461:1999
Mechanical Galvanizing	ASTM A695

### Plating

Zinc	ASTM B633
Cadmium	ASTM B766
Zinc Nickel	ASTM B841
Electroless Nickel	ASTM B733
Phosphate	ASTMFIT 37

### Duplex Stainless Steels

UNS	S31803, S32750, S32760 (SA, FG, FIT)
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### Nickel Alloys

Hastelloy	B2, C4, C22, C276, G, G 3, X
Incoloy	800,601,800HT, 825 DS, Ra330
Inconel	600,601,625,718
Monel	400, K500

### Carbon Steels

ASTM F1554	GR36
ASTM A325	TYPE 1
ASTM A490	TYPE 1
ASTMA307	GradeA,B,C
BS 3692	Grade 4.8,8.8
SAE1429	Grades, 8,10

### Other Materials

Titanium	GR2/5/7
Durehete	900,950,1055

### Stainless Steels

ASTM A193	B6, B8 Class 1 & 2 B8M Class 1 & 2, B8T Class 1 & 2 B8MA, B8A
ASTM A194	6, 8, 8A, 8M 8M A, 8C, 8CA, 8T
ASTM A320	B8 Class 1 & 2 B8M Class 1 & 2 B8MA, B8A
ASTM A453	660 Class A / B / C / D
ISO 3506	A2-50, A2-70, A2-80 A4-50, A4-70 A4-80, A4L-80
AISI	SS304(L),SS316(L),SS316(Ti)
Nitronic	50/60 B8R, B8S
Others	1 7-4 PH, FV 520B Sanicro 28 Carpenter 20 CB-3

### Coatings

Xylan®	SemaGard	Molykote®
Primer P-92	1105	7409
Xylar 2	1175	Everslik
1010	1280	Zn/Al
1070	1628	
1052		
1424		

# PRODUCT LINE-UP

## Petrochemical Bolts

Our prime strength is in manufacturing bolt assembly for the petrochemical industry. Materials include various grades of alloy, carbon and stainless steels based on standards from ASTM, AISI, ISO, BS and SAE.

**Diameter Range: ¼" - 5", M 5- M 100**



## Structural Hex Bolts

We supply a wide range of heavy duty bolting for joints in structural steel.

Specifications

- BS 3692 Gr 4.6, 8.8, 10.9, 12.9
- ASTM A325 High Strength Bolts
- JIS 1186 F10T, BS4395 Part 1,2,3 High Strength Friction Grip Bolts
- Torque Shear Type High Strength Bolts (TC Bolts)
- BS EN ISO 3506 A4-70/80, BS EN ISO 3506 A2 - 70/80
- SAE Grade 5,8,10
- A490 Type 1
- SS316, SS304, SS316 L

**Diameter Range: ½" - 2", M 12 - M 52**



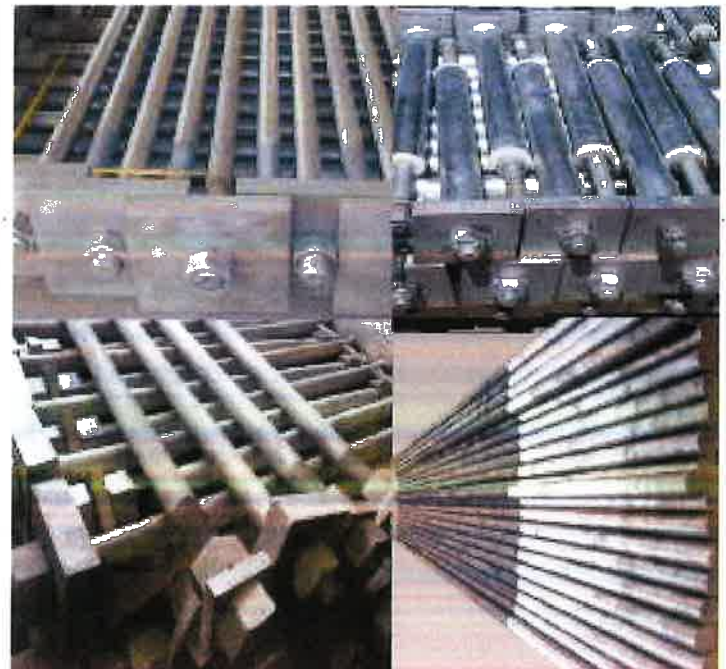
## Anchor Bolts

We supply anchor bolts specially customized to our customer's drawings required mainly for construction projects, refineries and power plants.

**Sizes:**

Diameter M 10 - M 100

Base plate sizes, washer sizes, lengths as per Client's requirement.





# PRODUCT LINE-UP

## Special Grade Fasteners

Special grades of fasteners are specially manufactured as they are resistant material well suited for services in extreme environments. These materials are also effective against temperature and pressure services such as pressure vessels, valves and flanges.

## Threaded Rods / Tie Rods

We stock an extensive range of threaded rods and bars of various materials ranging from carbon, alloy, duplex and stainless steel. This allow us for easy customisation and quick delivery response to our customers.

Diameter Range: ¼" - 5", M 5-M 100

## U-Bolt / U-Clamp

We manufacture a large variety of U-bolts and U-clamps to suit different type of steel pipe sizes.

Pipe Size Range : ½" - 36"

Non standard U Bolts will be supplied as per Client's requirement.

## Base/Anchor Plates

We are manufacturing base plates and anchor plates in line with customer drawings for construction industry. These plates are specially customized and can be supplied in various materials.

**\*As per customer's requirements**

## Foundation Bolts

We supply foundation bolts L/J & Eye Bolts specially customized to our client's drawings required mainly for construction projects, refineries, marine, power-plants etc..



# PRODUCT LINE-UP

## Customized Machining Products

As part of our flex manufacturing system, we specialize in machining items that require threading and other precision components in accordance with customer's drawings.

\*As per customer's requirements

## Nuts & Washers

We have an extensive range of nuts in stock to couple with your bolts usage in accordance to international standards such as ASTM, DIN, BS, EN and ISO.

Diameter Range: ¼"-5", M 5 - M 100

Washer will be supplied in line with required sizes and materials. Customized washers are also available.



## COATINGS

We provide an extensive range of plating and coatings designed to withstand harsh conditions and provide outstanding temperature, chemical, abrasion and corrosion resistance. With these services available, we have the production capabilities to customize a multilayered coating systems ideal to your specific environment.

### Plating

- Zinc (White/Yellow/Black)
- Zinc Nickel
- Cadmium (White/Yellow/Black)
- Electroless Nickel

### Galvanizing

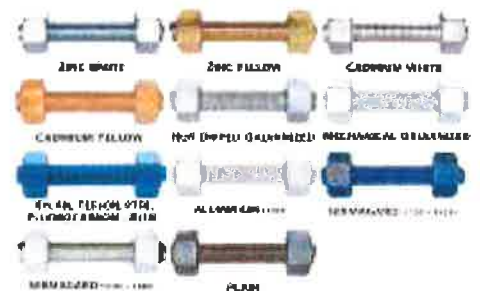
- Hot-Dip Galvanizing
- Mechanical Galvanizing

### Customized Coating Systems

- Zinc +Fluorocarbon/PTFE
- Cadmium + Fluorocarbon/ PTFE
- Hot-Dip Galvanizing + Fluorocarbon / PTFE

### Fluorocarbon Coating

- |                          |                         |
|--------------------------|-------------------------|
| SemaGardR Coating System | XylanR Coating Systems: |
| • 1105                   | • Xylar2                |
| • 1280                   | • 1014                  |
| • 1628                   | • 1070                  |
| • 1175                   | • 1052                  |
| • 1424                   |                         |



# Quality Statement And Certification

Baseline Bolts Industries L.L.C. is dedicated to the quality policy that will ensure, its products and services fully meet the requirements of its customer's at all times. The goal of company is to achieve high level of customer's satisfaction. Commitment to the implementation of supporting management and business operational systems is essential in realizing that goal. Baseline believes in the concept of client and supplier working together in pursuing this policy and in continually striving for improvements in service quality.

The quality policy is based on our fundamental aspects:

- Ensuring that we fully identify and confirm to the needs of our customers.
- Looking at our service provision processes, identifying the potential for errors and taking the necessary action to eliminate them.
- Everyone understanding how to do their job and doing it right first time.

To ensure that the policy is successfully implemented, staff will be responsible for identifying customer requirements, and ensuring that the correct procedures are followed to meet those requirements.

Our Company will constantly review and improve on our services to ensure tasks are completed in the most cost effective and timely manner for the benefit of all our customers. We shall ensure that all our personnel understand and fully implement our Company's policies and objectives and are able to perform their duties effectively through an ongoing training and development program.

The materials are being supplied to known end users, EPC Contractors and others with following certification as per the requirements.

- 1) EN 10204 3.1
- 2) EN 10204 3.2
- 3) NACE MR 0175
- 4) CE & PED Certification

Baseline Bolts Industries L.L.C. offers comprehensive range of superior quality products made of the finest materials as per the International codes, specifications and standards.

With our continual services, we achieve the Trust of our clients with Quality and delivery commitments.



*Our own facility built in  
UIA expected to be completed soon.....*



*Contact Details*

**BASELINE BOLTS INDUSTRIES L.L.C**

Emirates Modern Industrail Area, Umm Al Quwain

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**FLAT WASHER- DIN 125A**

- Products** : FLAT WASHER  
**Material / Grade** : CARBON STEEL, STAINLESS STEEL  
**Dimensions** :

FOR THREAD SIZE M	IN SIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS
1.6	1.7-1.84	4-3.7	0.35-0.25
1.7	1.8-1.94	4.5-4.2	0.35-0.25
2	2.2-2.34	5-4.7	0.35-0.25
2.3	2.5-2.64	6-5.7	0.55-0.45
2.5	2.7-2.84	6-5.7	0.55-0.45
2.6	2.8-2.94	7-6.64	0.55-0.45
3	3.2-3.88	7-6.64	0.55-0.45
3.5	3.7-3.88	8-7.64	0.55-0.45
4	4.3-4.48	9-8.64	0.9-0.7
5	5.3-5.48	10-9.64	1.1-0.9
6	6.4-6.62	12-11.57	1.8-1.4
7	7.4-7.62	14-13.57	1.8-1.4
8	8.4-8.62	16-15.57	1.8-1.4
10	10.5-10.77	20-19.48	2.2-1.8
12	13-13.27	24-23.48	2.7-2.3
14	15-15.27	28-27.48	2.7-2.3
16	17-17.27	30-29.48	3.3-2.7
18	19-19.33	34-33.38	3.3-2.7
20	21-21.33	37-36.38	3.3-2.7
22	23-23.33	39-38.38	3.3-2.7
24	25-25.33	44-43.38	4.3-3.7
27	28-28.33	50-49.38	4.3-3.7
28	29-29.33	50-49.38	4.3-3.7



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FOR THREAD SIZE M	IN SIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS
30	31-31.99	56-55.26	4.3-3.7
32	33-33.62	60-58.8	5.6-4.4
33	34-34.62	60-58.8	5.6-4.4
35	36-36.62	66-64.8	5.6-4.4
36	37-37.62	66-64.8	5.6-4.4
38	39-39.62	72-70.8	6.6-5.4
39	40-40.62	72-70.8	6.6-5.4
40	40-40.62	72-70.8	6.6-5.4
42	43-43.62	78-76.8	8.0-6.0
45	46-46.62	85-83.6	8.0-6.0
48	50-50.62	92-90.6	9.0-7.0
50	52-52.74	92-90.6	9.0-7.0
52	54-54.74	98-96.6	9.0-7.0
55	57-57.74	105-103.6	10.0-8.0
56	58-58.74	105-103.6	10.0-8.0
58	60-60.74	110-108.6	10.0-8.0
60	62-62.74	110-108.6	10.0-8.0
64	66-66.74	115-113.6	10.0-8.0
68	70-70.74	120-118.6	11.0-9.0
72	74-74.74	125-123.4	11-9.0
76	78-78.74	135-133.4	11-9.0
80	82-82.87	140-138.4	13.2-10.8
85	87-87.87	145-143.4	13.2-10.8
90	93-93.87	160-158.4	13.2-10.8
95	98-98.87	165-163.4	13.2-10.8
100	104-104.87	175-173.4	15.2-12.8



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### TECHNICAL DATA SHEET- ISO 898-1 Gr. 8.8

**Material / Grade:** ISO 898-1 Gr. 8.8 (Carbon Steel or Alloy Steel QT)

**Products:** Bolts, Screws, Studs, Chemical Anchors, Engineering Stud, Anchor Bolts etc.

**Grade Description:** This grade have minimum Tensile strength of 800 MPa and higher. Carbon steel or alloy steel quenched and tempered to desired mechanical properties.

#### Chemical Requirement (%):

8.8	C	P	S	B	Tempering Temp. min
Carbon steel with additives (B,Mn or Cr)	0.15-0.40 *	0.025	0.025	0.003 max	Min 425 °C
Carbon Steel	0.25-0.55	0.025	0.025		
Alloy Steel	0.20-0.55	0.025	0.025		

\* in case of plain carbon steel with a carbon content below 0.25% (cast analysis), the minimum Mn content shall be 0.6% for property class 8.8

#### Mechanical Requirement (%):

Dia	Tensile Strength,min (Mpa)	Yield Strength,min (Mpa)	Elongation in min (%)	Reduction of Area, min (%)	Hardness, HRC
d ≤ 16 mm	800	640	12	52	22-32
d > 16mm	830	660	12	52	23-34

**Nuts:** Nuts supplied with property class of ISO 898-2 , Class 8 or higher

**Flat Washers:** Unless otherwise specified, all washers shall conform to DIN 125.

**Identification Symbol:** 8.8

**Dimensions:** Hex Bolt DIN 931/ DIN 933/ ISO 4014/ ISO 4017/ BS 3692/ BS 4190  
Threaded Rod DIN 975/ DIN 976



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[info@baselinebolt.ae](mailto:info@baselinebolt.ae)

**TECHNICAL DATA SHEET- ISO 898-2 CL. 8**

**Products: HEXAGONAL NUTS**

**Material / Grade: ISO 898-2 CL. 8 Carbon Steel or alloy steels**

**Grade Description:** Hexagonal nuts having coarse thread used in application ranging from -50 to +150 °C, Carbon steel or alloy steel of different styles (thin nut, regular nut or high nuts) able to mate with bolts and studs having property class according to ISO 898-1

**Chemical Requirement (%):**

Property Class 8		C max.	Mn min.	P max.	S max.	Tempering Temp. min
High Nut (Style-2)	Carbon Steel <sup>d</sup>	0.58	0.25	0.060	0.150	Min 425 °C
Regular Nut (Style1) D ≤ M16	Carbon Steel <sup>d</sup>	0.58	0.25	0.060	0.150	
Regular Nut (Style1) D > M16	Carbon Steel,QT	0.58	0.30	0.048	0.058	

d - may be quenched and tempered

**Mechanical Requirement (%):**

Dia	Proof Load as per ISO 898-2	Hardness, HV	Hardness, HB	Hardness, HRC
d ≤ 16 mm	-	200 min - 302 max	190 min - 287 max	30 max
16mm < d ≤ 39 mm	-	233 min - 353 max	221 min - 336 max	36 max

**Identification Symbol: BBI 8**



**Attachment 2**

**Material Test Certificate**

# BASELINE BOLTS INDUSTRIES LLC

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 Web: www.baselinebolt.com



Baseline Bolts Industries L.L.C



AN ISO 9001 : 2008 CERTIFIED COMPANY

# بيس لاين لصناعة البراغي ذ.م.م.

ص.ب: ٤٩٧٩ أم القيوين - ا.ع.م.  
 هاتف : +٩٧١ ٦ ٧٦٧.٣٩٩ فاكس : +٩٧١ ٦ ٧٦٧.٤٩٩  
 بريد الإلكتروني: info@baselinebolt.ac, sales@baselinebolt.ac  
 إنترنت: www.baselinebolt.com

## SAMPLE MATERIAL TEST CERTIFICATE

(As per BS EN 10204 / 3.1)

<b>Company Name:</b>	MAN ENTERPRISE	<b>Mtc no:</b>	SC1108
<b>Item Description:</b>	ANCHOR BOLT / HEX NUT	<b>Po ref no:</b>	SAMPLE
<b>Standard:</b>	ISO 898-1 GR. 8.8 Ed-13/ ISO 898-2 CL 8 Ed-12	<b>Wo ref no:</b>	SAMPLE
		<b>Date:</b>	21.11.2017

### CHEMICAL COMPOSITION %

S.No	Item	Size	Heat no.	C	Mn	P	S	Si	Cr	Mo	Ni	Qty
1	ANCHOR BOLT	M18 X 625 mm	15406806	0.39	0.81	0.017	0.002	0.24	0.94	0.20	-	1
1a	HEX NUT	M18	WB011505419	0.32	0.62	0.021	0.006	0.15	-	-	-	1
2	ANCHOR BOLT	M20 X 625 mm	6104293	0.41	0.90	0.012	0.005	0.25	1.010	0.20	-	1
2a	HEX NUT	M20	G6312006951	0.26	0.72	0.012	0.050	0.13	0.01	-	0.02	1
3	ANCHOR BOLT	M24 X 1295 mm	7100670	0.41	0.90	0.011	0.004	0.25	0.990	0.20	-	1
3a	HEX NUT	M24	G632008345	0.36	0.74	0.010	0.003	0.15	0.01	-	-	1
4	ANCHOR BOLT	M33 X 1505 mm	7100436	0.42	0.89	0.012	0.004	0.25	0.980	0.200	-	1
4a	HEX NUT	M33	21700625A	0.44	0.58	0.025	0.020	0.24	0.05	-	0.01	1
												1

### MECHANICAL PROPERTIES

S.No	1	1a	2	2a	3	3a	4	4a
UTS-Mpa	861	-	1010	-	980	-	965	-
YS-Mpa	783	-	940	-	925	-	915	-
EL %	19	-	19.5	-	18.5	-	21.0	-
RA %	59	-	58.5	-	54.5	-	57.0	-
Proof load	-	176.6 KN	-	225.40 KN	-	324.8 KN	-	638.50 KN
Tempering Temp °C	630	-	705	-	650	-	700	-
Hardness	26 HRC	297 HV	27.5-31.5 HRC	29-30 HRC	28-31.5 HRC	28-29 HRC	27.5-31 HRC	30-31 HRC
Marking	-	S 8	-	BBI 8	-	BBI 8	-	BBI 8

<b>Surface Finish</b>	HOT DIP GALVANIZED, Avg. Coating Thk. 50+ microns
<b>Coating Specification</b>	BS EN ISO 1461
<b>Visual Inspection</b>	Cracks & Stamp edges not observed
<b>Threads</b>	Found Satisfactory
<b>Dimensions</b>	Found Satisfactory
FASTENERS WERE MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE ABOVE-MENTIONED SPECIFICATION	
Provided sample values only, for actual order heat no. and corresponding values will vary depends on material availability.	

For Baseline Bolts Industries LLC



**BASELINE BOLTS INDUSTRIES LLC**

P.O. BOX : 4979, U.A.Q, U.A.E.  
TEL: +971 6 7670399, FAX: +971 6 7670499  
EMAIL: sales@baselinebolt.ac, info@baselinebolt.ac  
Web: www.baselinebolt.com

**بيس لاين لصناعة البراغي د.م.م.**

ص.ب: ٤٩٧٩ أم القيوين - ا.ع.م.  
هاتف : +٩٧١ ٦ ٧٦٧٠٣٩٩ فاكس : +٩٧١ ٦ ٧٦٧٠٤٩٩  
بريد الإلكتروني : info@baselinebolt.ac, sales@baselinebolt.ac  
www.baselinebolt.com : إنترنت

AN ISO 9001 : 2008 CERTIFIED COMPANY

DATE: 21/11/2017

OUR REF: SC1108

**LETTER OF COMPLIANCE**

IT IS CERTIFIED THAT BASELINE BOLTS INDUSTRIES LLC HAS SUPPLIED THE MATERIAL AGAINST WO REF: SAMPLE TO MAN ENTERPRISE AS SPECIFIED IN THE PURCHASE ORDER NO: SAMPLE

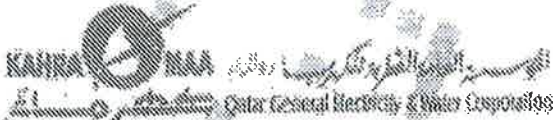
ITEM NO	DESCRIPTION	SIZE	MATERIAL	Qty [SET]
1b	FLAT WASHER	M16	CS- HDG	1
2b	FLAT WASHER	M20	CS- HDG	1
3b	FLAT WASHER	M24	CS- HDG	1
4b	FLAT WASHER	M33	CS- HDG	1

THE ABOVE MATERIAL COMPLIES WITH THE SPECIFICATIONS MENTIONED IN THE ABOVE PURCHASE ORDER.



**Attachment 3**

**Previous Approval**



تليفون : 44845383 / 44845306 / 44845363 فاكس : (974) 44845383  
 من. ب. 41 الدوحة - قطر  
 Tel: (974) 44845306 / 44845363 Fax: (974) 44845383  
 P.O. Box: 41 Doha - Qatar

Ref: # TWS/LT/15/ 1347  
 12/08/2015

SENIOR RESIDENT ENGINEER  
 KAWSP  
 P.O. BOX: 10281  
 Tel. No: 4467-1051/65  
 Fax No.: 4465-7002  
 DOHA, QATAR

**PROJECT : IA-13-14/C/002/ST - ROAD & INFRASTRUCTURE FOR COMMERCIAL STREET IN AL KHOR AREA (C2013/95)**

**SUBJECT: MATERIAL APPROVAL REQUEST**

With reference to the above mentioned subject and to your letter ref. No. QN003-P00-KWJ-KAW-LET-A10387 dated 05.07.2015, please find our comment in the below table:

SR. NO.	Description	Manufacturer	Remarks
1	Hex Bolts, Hex Nuts & Flat Washer Grade SS 316L/A4L (Size -M33,M30,M27,M20 & M16)	M/s. Baseline Bolting Industries LLC - UAE	Approved See Note 1 Below

NOTE: According to TWS specification, section 1 (modified) it is clearly specified to use mild Steel Hot Dipped Galvanized Minimum 70 micron thickness of coating. Unless project specification clearly specifying Stainless Steel type. Chemical analysis report of delivery item to be submitted along with the inspection request.

The above materials must comply with the latest KM General Specifications at the time of supply.

This is for your information and necessary action.

CC TO ~~13~~  
 4cc

Regards,

*[Signature]*  
 MOHAMMED HASHID AL-KUWARI  
 HEAD, SECONDARY WATER PROJECTS

AM/TWS  
 WP/WAG/2806/2015 DL 04.08.2015

RECEIVED  
 16 AUG 2015

By: *Moidu*

RECEIVED  
 K&A WSP  
 13 AUG 2015

K&A WSP/JY

RECEIVED DATE	13/08/15	TWS	
DIST.	NAL	DATE	ACTION
JG	M	13/08	INFO
MOHAMMED		15/08	AD.
FILE REF	QN003-KAW-0094		
COPY REF			



bestir bing

# MATERIAL/EQUIPMENT APPROVAL FORM

<b>L</b>	<b>R</b>	<b>T</b>	<b>Q</b>	<b>D</b>	<b>P</b>	<b>D</b>	<b>G</b>	<b>4</b>	<b>M</b>	<b>A</b>	<b>F</b>	<b>C</b>	<b>I</b>	<b>V</b>	<b>O</b>	<b>M</b>	<b>F</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>B</b>	<b>-</b>
Project	Sub Group		WBS		Doc Type	Discipline	Location		Issuer Code	Doc Number	Rev.	Qatar Railway Company Lusail LRT Project															

Date of submission: 12-Jan-2016 Expected date of use: 2-Feb-2016

**MATERIAL/EQUIPMENT DESCRIPTION**

**MATERIAL/EQUIPMENT NAME (as reflected in the package/delivery note):**  
Foundation Bolt (J-Type) with Hex and washer Gr. 8.8

**TECHNICAL CHARACTERISTICS :**  
Refer to the attached Technical Submittal

**MANUFACTURER'S NAME: Baseline Bolting Industries LLC**  
Manufactured in :  Qatar  other(country): UAE

**SPECIFIC USE/FUNCTION:**  
for Structural Steel Column Foundation

**LOCATION of USE:**  
Site Wide

**THIS MATERIAL/EQUIPMENT IS IN COMPLIANCE WITH REFERENCE:**

- QCS 2014 Section 16: Structural Steelworks Parts 2.5.1.1b & 2.5.3.1
- LRT-QDPB-XX-DTD-STR-OMF10-368315-A-

**ATTACHMENTS TO THIS SUBMITTAL**

**DOCUMENTS :**

<input checked="" type="checkbox"/> Material Data Sheet .....as attached	<input checked="" type="checkbox"/> Project References .....as attached
<input checked="" type="checkbox"/> Drawing .....as attached	<input type="checkbox"/> Company Profile .....as attached
<input checked="" type="checkbox"/> Test Report/Certificate .....as attached	<input type="checkbox"/> Photo .....as attached
	<input type="checkbox"/> Others: .....as attached

**SAMPLE :**

<input type="checkbox"/> as attached/photo
<input type="checkbox"/> can be seen on site/mock-up
<input checked="" type="checkbox"/> no sample

	ISSUER Structural Coordinator	REVIEWER Natarajan Karthick	REVIEWER Etienne Boutet	APPROVAL Robert Keys	APPROVAL Giesbert Otten	Client's Representative (If applicable)
<b>Name:</b>	Mr. Giriraj Garg.	Quality Mngr.	Tech. Mngr.	Const. Mngr.	Project Mngr.	Qatar Rail SR.PM.
<b>APPROVED</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>APPROVED WITH COMMENTS</b> (see details below/attached)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>REJECTED</b> (see details below/attached)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Date :</b>	12-Jan-16	12-Jan-16	14/Jan/2016	14 JAN 2016	14	16
<b>Signature</b>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

**Comments :** Please refer to LRT PM's Comment Sheet for open/closed comments #1-5, for consortium's info and action.





تليفون : 44845306 / 44845363 فاكس : 44845383

ص. ب : 41 الدوحة - قطر

Tel: (974) 44845306 - 44845363 Fax: (974) 44845383  
P.O. Box: 41 Doha - Qatar

Ref. #TWS/LT/15/990  
10/06/2015

**SENIOR RESIDENT ENGINEER**  
**KEO**  
**P.O BOX: 18108**  
**FAX: 44626500**  
**DOHA-QATAR**

**PROJECT: DESIGN & CONSTRUCTION SERVICES ROAD ENHANCEMENT TO**  
**NORTH ROAD CORRIDOR (P059) - IA 11/12 C159 G**

**SUBJECT: MATERIAL FOR APPROVAL**

With reference to the above-captioned subject and to your letter ref. No. 11-5719-CM-P059-KEO-KHR-LT-SH-00030 dated 09.05.2015, please find our comment in the below table:

SR. NO.	Description	Manufacturer	Remarks
1	Fasteners Hot Dip Galvanized 70 Micron - Bolts, Nuts and Washers	M/s. Baseline Bolting Industries - U.A.E	Approved, See Note 1 Below

**Note 1:** The proposed materials are subject to having a thickness test result at the time of supply and the thickness shall be not less than 70 micron of Galvanize. Furthermore, random samples will be collected for test upon material delivery to site. The test will be done at independent laboratory witnessed by KM engineer. Cost will be borne by the supplier/ contractor.

**The above materials must comply with the KM General Specifications at the time of supply.**

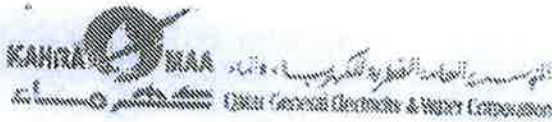
This is for your information and necessary action.

Regards,

**ENG. MOHAMMED BASHID AL-KUWARI**  
**A/HEAD, SECONDARY WATER PROJECTS**

AY/TWS  
WPA/WMS/1954/2015 dt 09.06.15





تليفون : 44845363 / 44845306 (974) فاكس : 44845383

ص.ب : 41 الدوحة - قطر

Tel: (974) 44845306 / 44845363 Fax: (974) 44845383  
P.O. Box 41 Doha - Qatar

Ref. #TWS/LT/15/ 989  
10/06/2015

**SENIOR RESIDENT ENGINEER**  
KEO  
P.O BOX: 18108  
FAX: 44626500  
DOHA-QATAR

**PROJECT: DESIGN & CONSTRUCTION SERVICES ROAD ENHANCEMENT TO  
NORTH ROAD CORRIDOR (P059) - IA 11/12 C159 G**

**SUBJECT: MATERIAL FOR APPROVAL**

With reference to the above-captioned subject and to your letter ref. No. 11-5719-CM-P059-KEO-KHR-LT-SH-00031 dated 09.05.2015, please find our comment in the below table:

SR. NO.	Description	Manufacturer	Remarks
1	Fasteners Stainless Steel Grade 316L - Bolts, Nuts and Washers	M/s. Baseline Bolting Industries - U.A.E	Conditional Approval See Note 1 Below

Note 1: The propose materials are subject to having a chemical test result at the time of supply. Furthermore, random samples will be collected for test upon material delivery to site; test will be done at independent laboratory witnessed by KM Engineer. Cost will be borne by the supplier/contractor.

The above materials must comply with the KM General Specifications at the time of supply.

This is for your information and necessary action.

Regards,

**ENG. MOHAMMED RASHID AL-KUWARI**  
A/HEAD, SECONDARY WATER PROJECTS

AY/TWS  
WP/WMS/1955/2015 dt 09.06.15





**Attachment 4**

**Site Instruction No. 72**



18<sup>th</sup> November 2017

**To:** MAN Enterprise Qatar WLL  
P.O. Box: 22373 Doha, Qatar  
Tel: +974 44 55 33 66 Fax: +974 44 55 33 77

**Attention:** Mr. Andre Korkomaz / Project Manager

**Subject:** Site Instruction No. 72

Undertaking of the Supply and Delivery of Anchor Bolts for Lighting Poles Covered in the Contract Under Provisional Sum

Dear Sir,

With reference to the above subject, Contractor is hereby instructed to undertake the supply and delivery of anchor bolts for Lighting Poles through procuring the services of the Client's Nominated Subcontractor M/s Baseline Bolts Industries & Trading. Lighting Poles to be supplied directly by the Client.

As per this Instruction M/s Baseline Bolts Industries & Trading has been nominated to execute the said works for the Lump Sum Value of QAR 67,568.00. MAN Enterprise Qatar shall be entitled for 11% for attendance, Head Office Overhead and Profit as per Contract.

The Conditions of Nomination as approved by the Client are covered in the attached documents listed hereunder:

- a) Baseline Bolts Industries & Trading Quotation Ref#: BBQ-ENQ-0119-1511177-TJ

The Contractor is instructed to adopt the attached documents while finalizing the Subcontract with the Nominated Subcontractor.

Where the conditions of nomination vary from the Conditions of the Contract, and as far as matters related to the subject works but no further, the condition of nomination shall have precedence and the Contractor shall be treated on a back-to-Back Basis.

This Instruction is given under Clause 51 of the Conditions of Contract and shall be followed by a Contract Variation Order covering the difference between this nomination letter and the PS Amount.

Magd. A. Gabriel  
General Manager



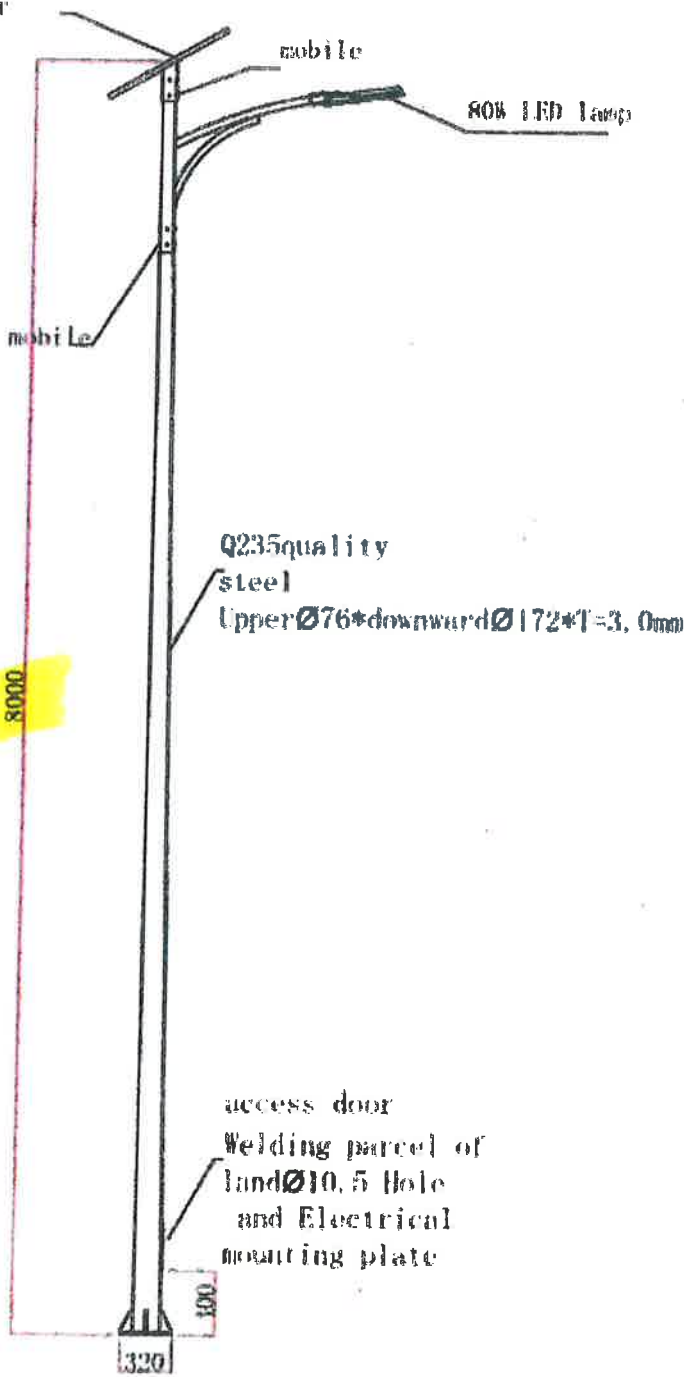
MAN ENTERPRISE QATAR		
20 NOV 2017		
INCOMING DISTRIBUTION		
LIST	ACT	BTG
file		
M.H.	✓	
Ace	✓	
MARK	✓	

516-079

PI

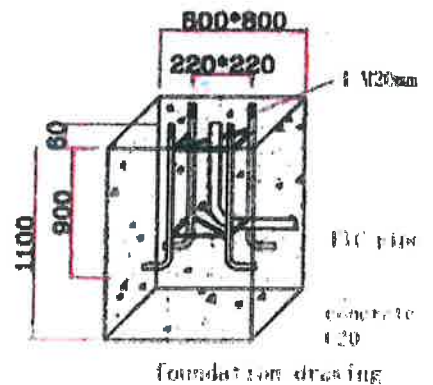
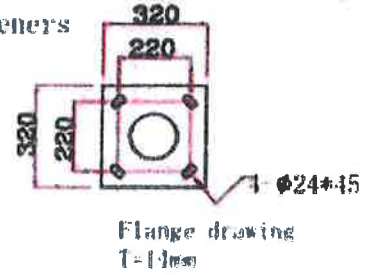
Autodesk

2-100W solar panel



technical requirements:

1. main rod: 8M
2. The light body is Q235 quality steel, Upper  $\text{Ø}76^*$  Downward  $\text{Ø}172^*T=3, 0\text{mm}$  cone bar, hot galvanizing spay paint on the surface of the lamp, Color to be determined.
3. light source: 80W LED
4. system: 2-100W solar panel, 200Ah gel battery free of maintainance . 10A/24V controller, microcomputer automatic control system
5. protection level not lower than IP55
6. 304# stainless steel External fasteners



Autodesk

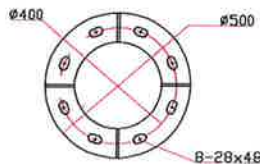
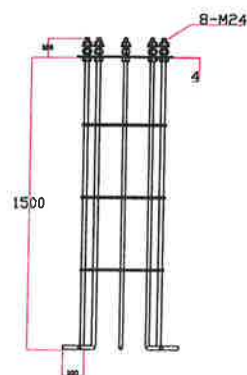
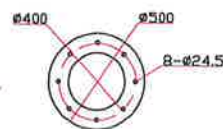
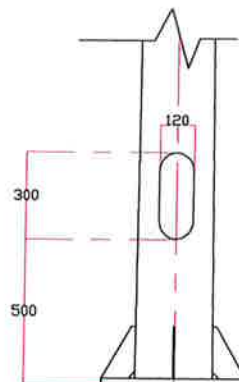
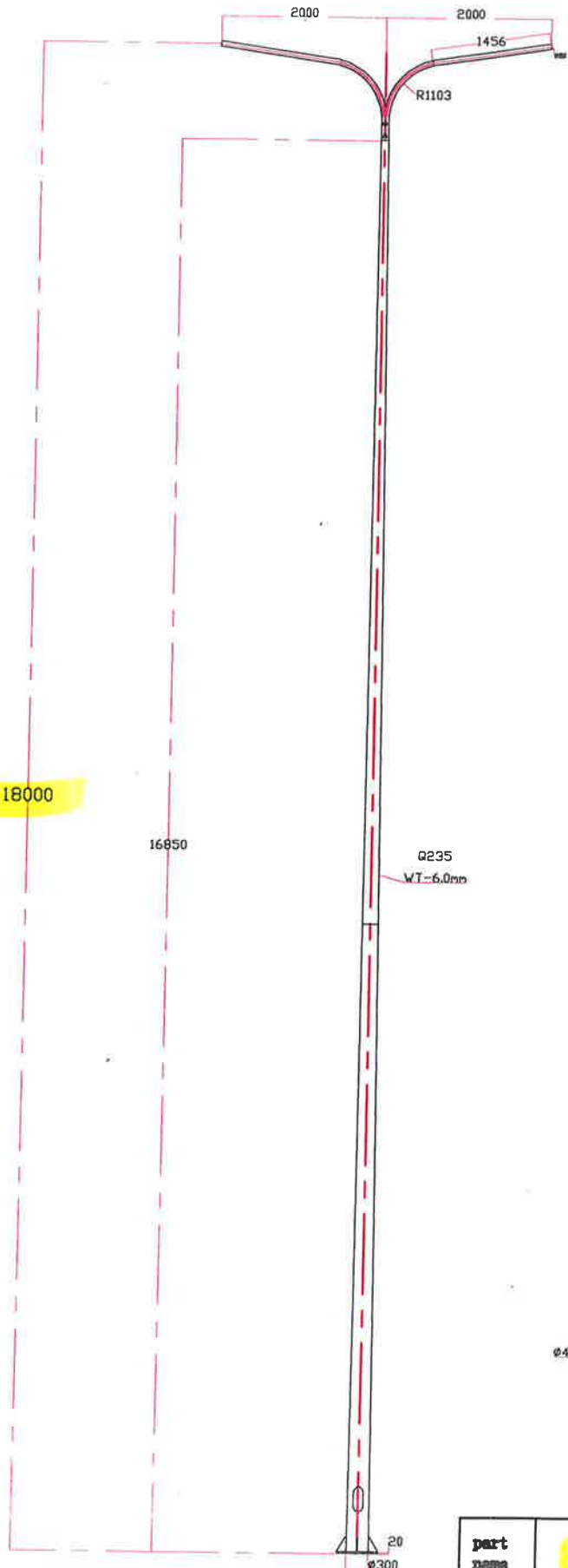
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P3

Drawing type

Sample Making



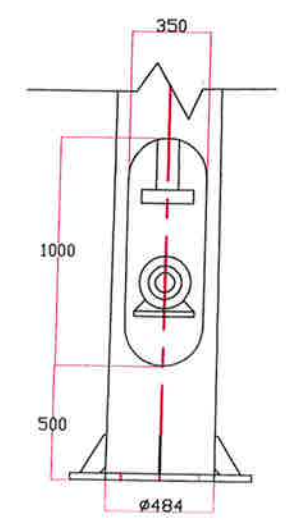
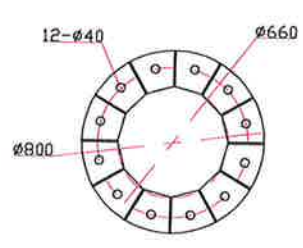
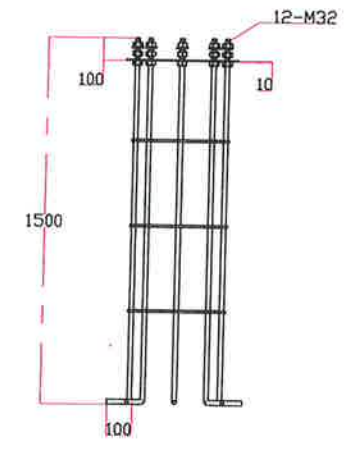
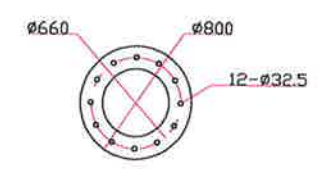
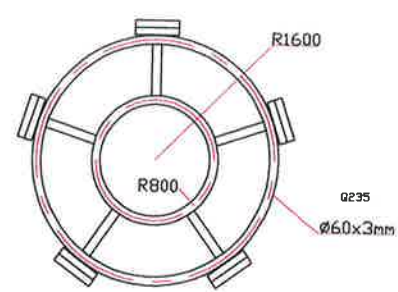
part name	<b>18Ma</b>	product model	
rt NO.		product name	
version number		product NO	
weight	<b>569KG</b>	material	
Foundation G.W.	<b>55KG</b>	DanYangJinShengIllumination Equipment Manufacturing Co., Ltd.	

design		standardization	
drawing		audit	
craft		approve	
file changed		date	2015-5-6

OK

P4

Drawing type  Sample Making



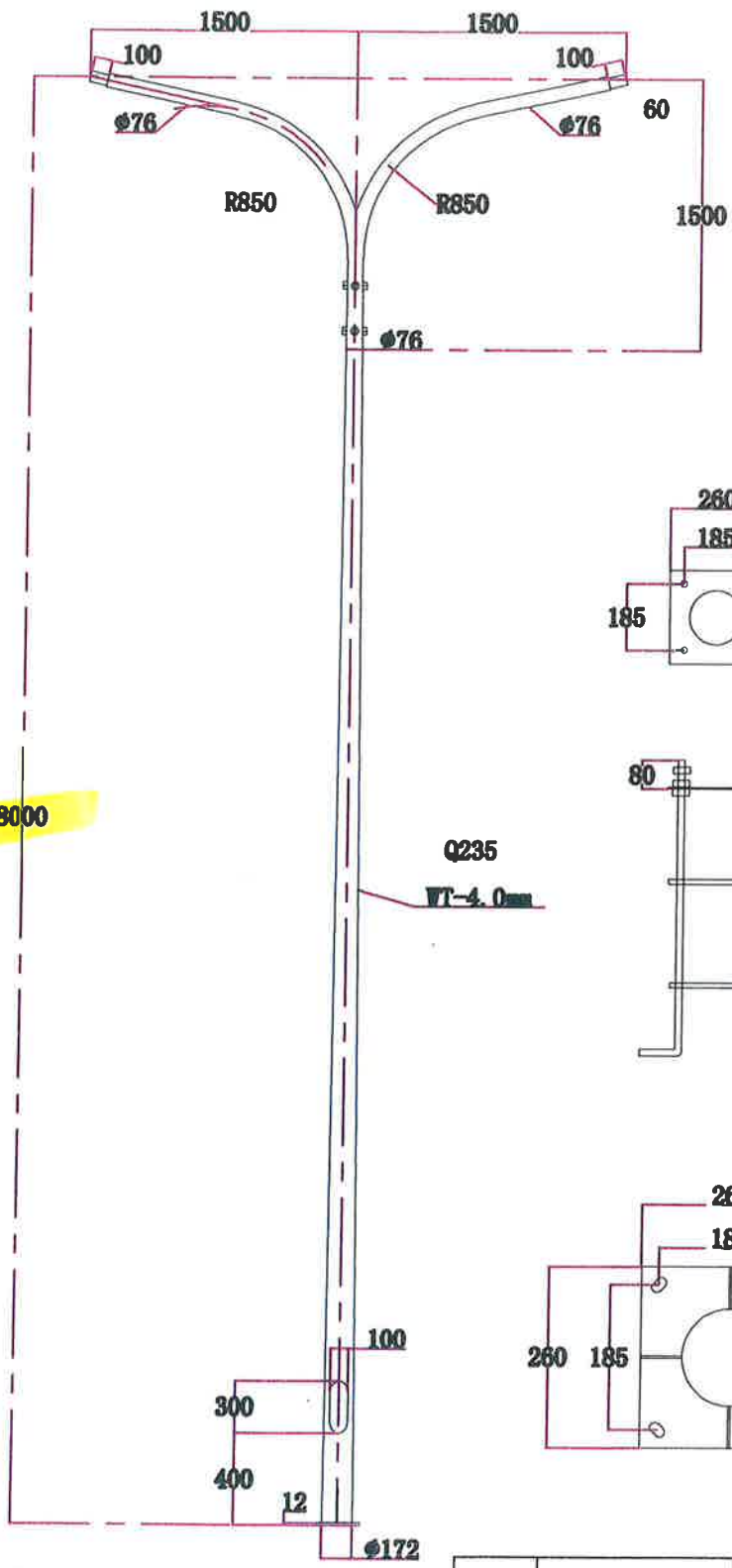
part name	<b>22M</b>	product model	
		product name	
		product NO	
		material	
rt NO.		version number	
		weight	<b>1785KG</b>
		Foundation G. W.	<b>160KG</b>

design		standardization	
drawing		audit	
craft		approve	
file changed		date	2015-5-6

OK

DanYang JinSheng Illumination  
Equipment Manufacturing  
Co., Ltd.

P3



8000

Q235  
WT-4.0mm

part name	8M	product model	
		product name	
		product NO	
		material	
design		standardization	
drawing		audit	
craft		approve	
file changed		date	2015-5-6
		rt NO.	
		version number	
		weight	125 KG
		scale	1:1 KG

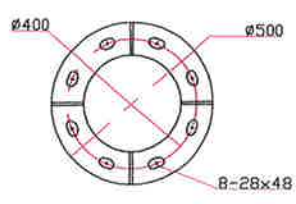
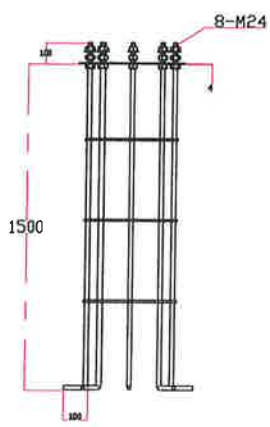
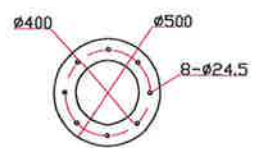
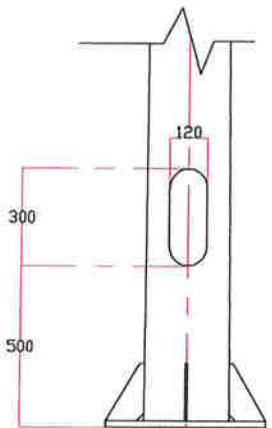
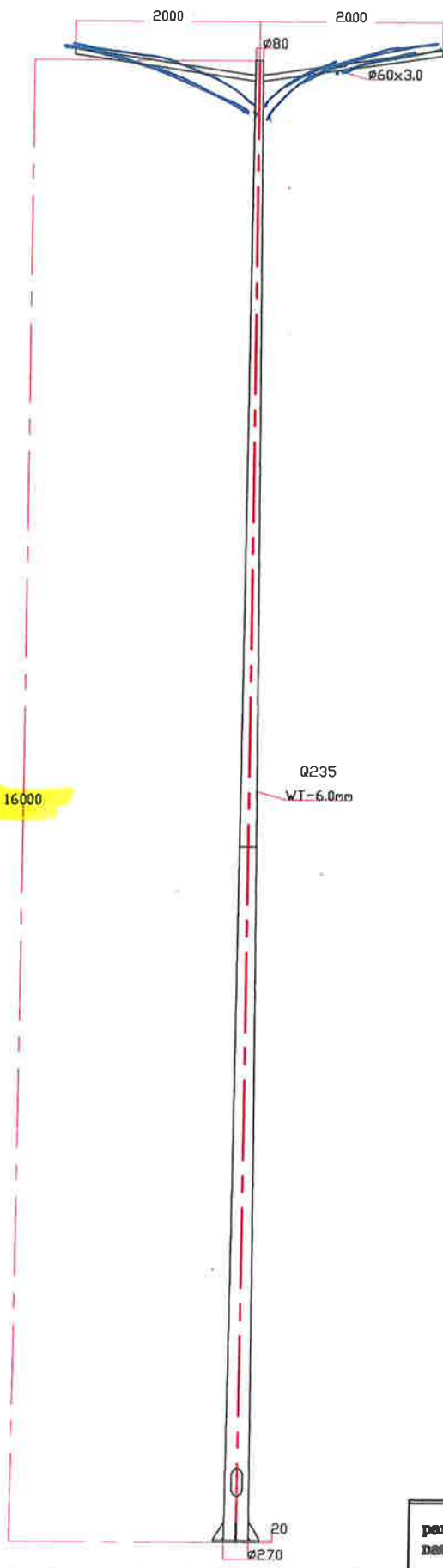
Foundation  
G.W.

ok

DenYangJinShengIllumination  
Equipment Manufacturing  
Co.,Ltd.

P6

Drawing type  Sample Making



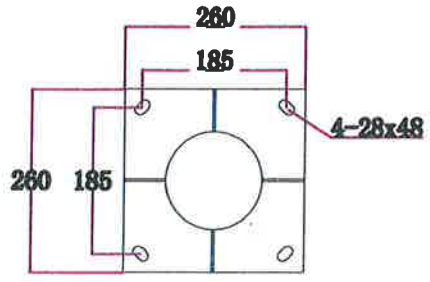
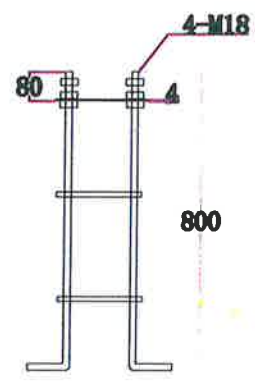
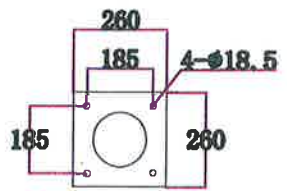
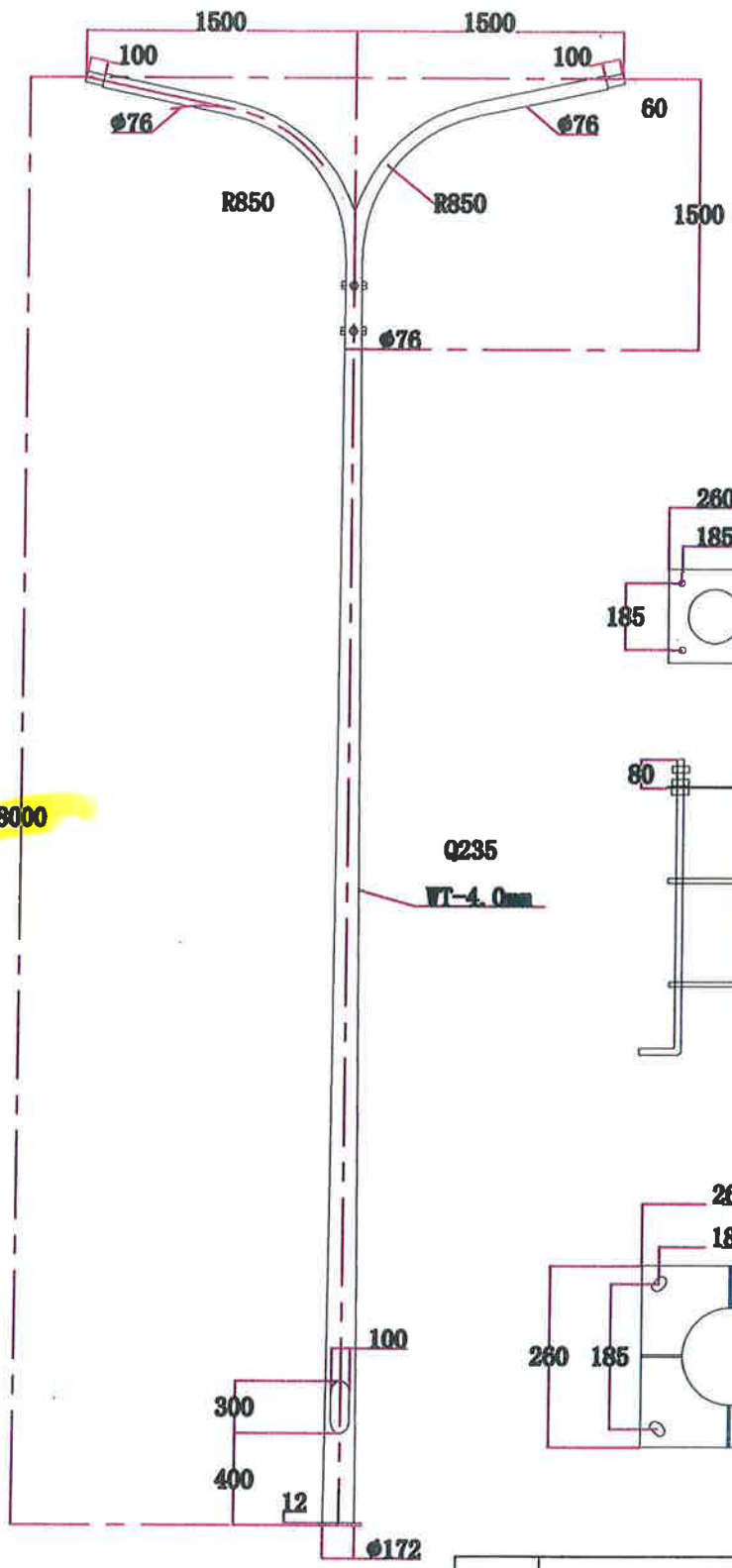
part name	<b>16M</b>	product model	
		product name	
		product NO	
rt NO.		material	
version number		DanYangJinShengIllumination Equipment Manufacturing Co., Ltd.	
weight	<b>489KG</b>		
Foundation G. W.	<b>55KG</b>		

design		standardization	
drawing		audit	
craft		approve	
file changed		date	2015-5-6

OK



P7



				part name	8B	product model	
						product name	
						product NO	
						material	
design		standardization		rt NO.		DanYangJinShengIllumination Equipment Manufacturing Co., Ltd.	
drawing		audit		version number			
craft		approve		weight	125KG		
file changed		date	2015-5-6	Foundation G. W.	11KG		

OK



HAER

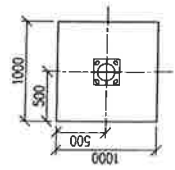
P1  
sol2

P2, P5, P7

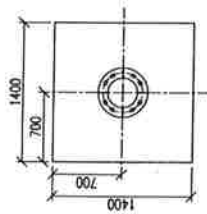
P6

P3

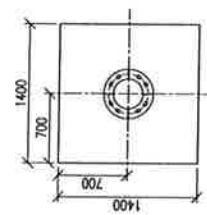
P4



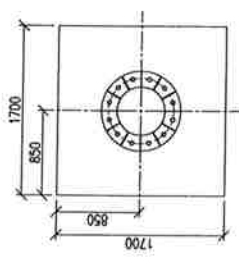
8MTR POLE FOUNDATION  
(1000X1000X800mm)  
SC: 1/50



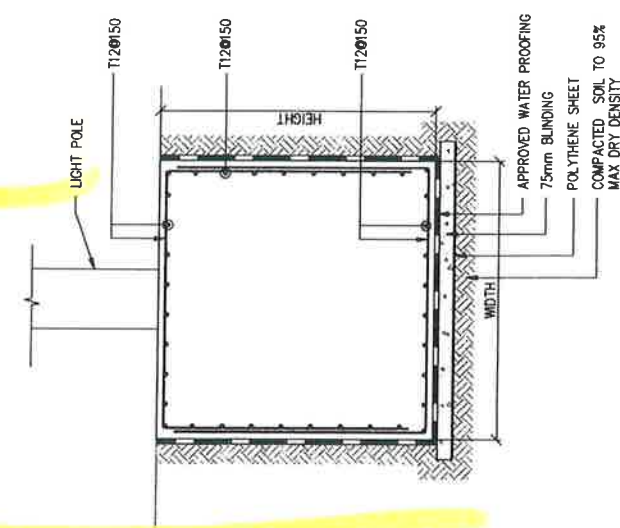
16MTR POLE FOUNDATION  
(1400X1400X1400mm)  
SC: 1/50



16MTR POLE FOUNDATION  
(1400X1400X1600mm)  
SC: 1/50



22MTR POLE FOUNDATION  
(1700X1700X2200mm)  
SC: 1/50

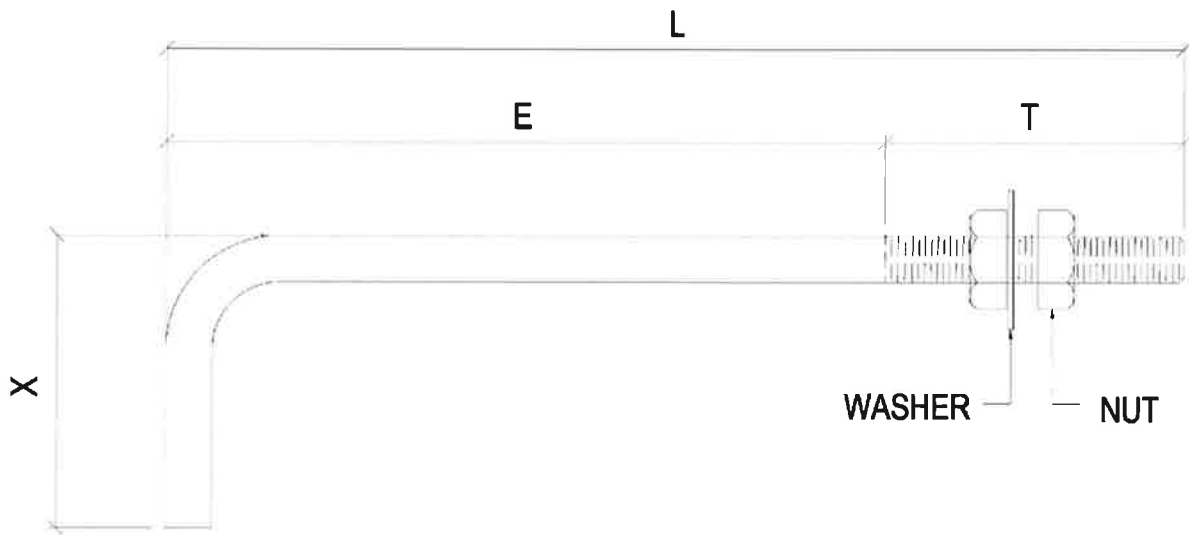


1 TYPICAL FOUNDATION SECTION  
SC: 1/25

## **Attachment 5**

### **Reference Drawing Details**

## ANCHOR BOLT SCHEDULE FOR STREET LIGHTING POLES



### **ANCHOR BOLT ASSEMBLY:**

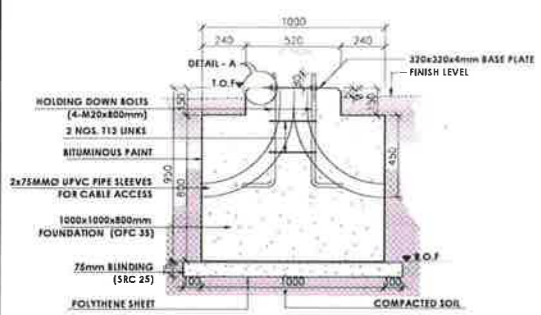
- Each assembly consists of one L shaped anchor bolt, 2 nos of hex nuts, and 1 no of washer

### **LEGEND:**

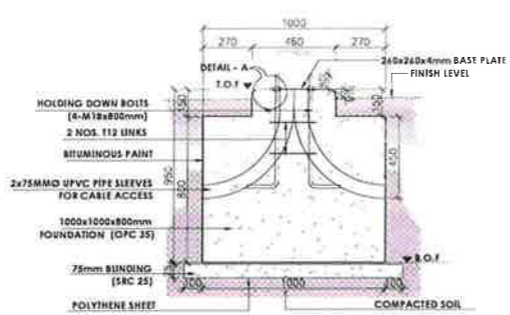
- T: Threaded Bolt Projection
- E: Embedment Length
- L: Vertical Length
- X: Hook Length

DIAMETER	QTY	T (mm)	E (mm)	L (mm)	X (mm)	OVERALL LENGTH (mm)
18mm	236	150	475	625	175	800
20mm	560	150	475	625	175	800
24mm	400	150	1145	1295	205	1500
32mm	252	250	1255	1505	295	1800

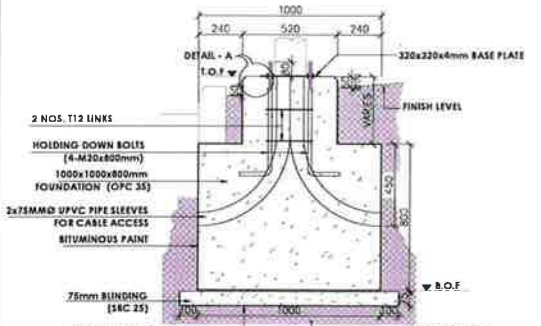
FOR BINDING



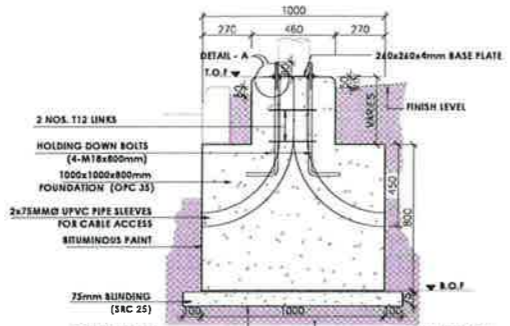
**02 SECTION A-A**  
TYPE - P1 1:20



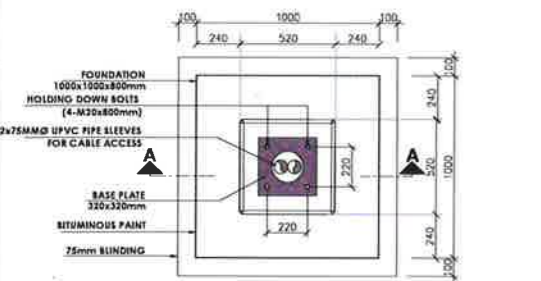
**06 SECTION B-B**  
TYPE - P2,P5 1:20



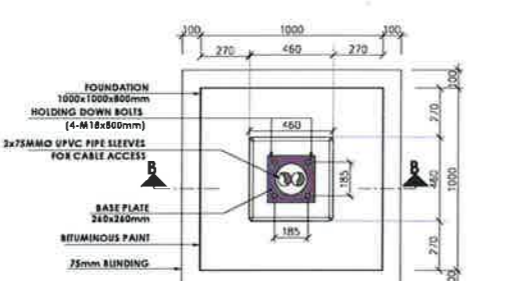
**02 SECTION A-A**  
TYPE - P1 1:20



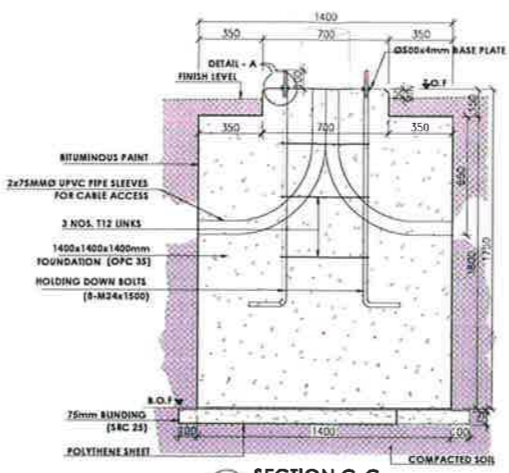
**05 SECTION B-B**  
TYPE - P2,P7 1:20



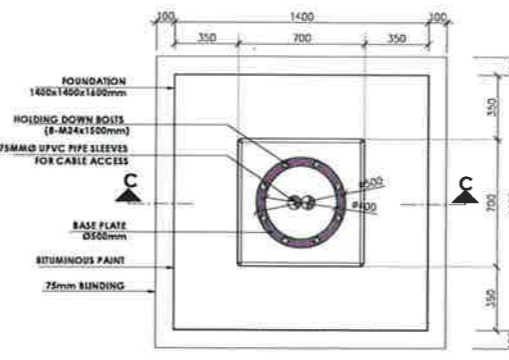
**01 DETAIL - 01**  
PLAN TYPE - P1 (8.0m) 1:20



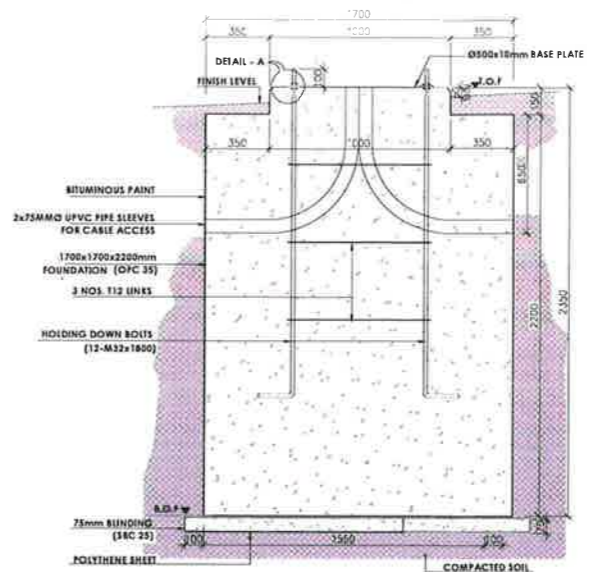
**04 DETAIL - 02**  
PLAN TYPE - P2,P5,P7 (8.0m) 1:20



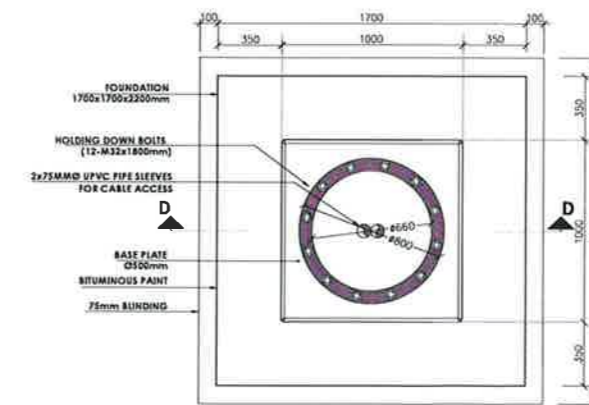
**08 SECTION C-C**  
TYPE - P3 (18.0m) 1:20



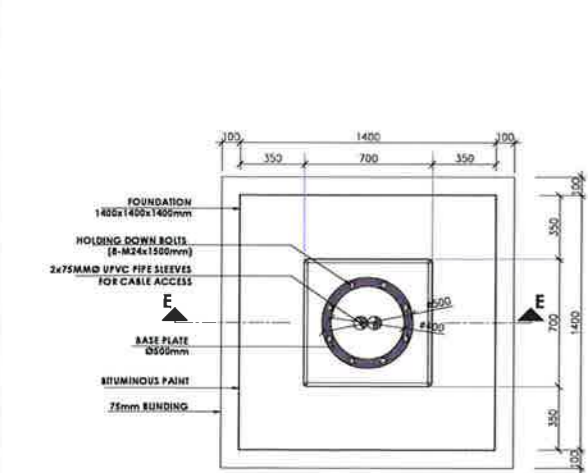
**07 DETAIL - 03**  
PLAN TYPE - P3 (18.0m) 1:20



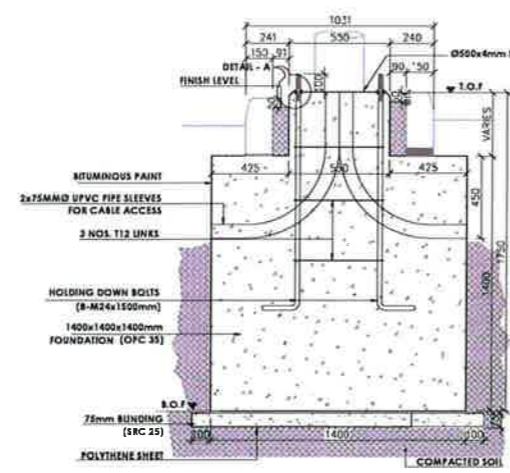
**10 SECTION D-D**  
TYPE - P4 (22.0m) 1:20



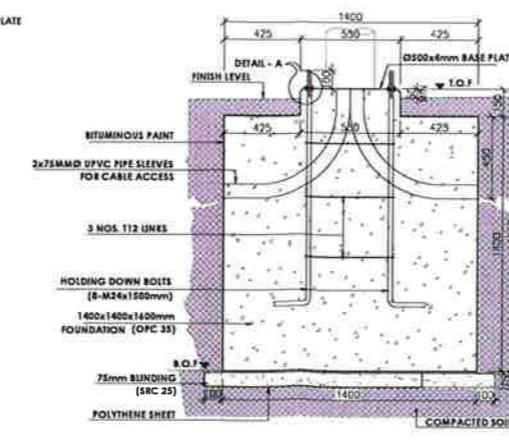
**09 DETAIL - 04**  
PLAN TYPE - P4 (22.0m) 1:20



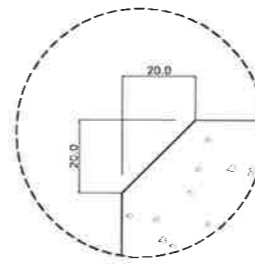
**11 DETAIL - 05**  
PLAN TYPE - P6 (16.0m) 1:20



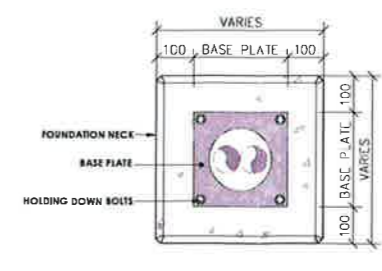
**12 SECTION E-E**  
TYPE - P6 (16.0m) 1:20



**13 SECTION E-E**  
TYPE - P6 (16.0m) 1:20



**14 DETAIL - 01**  
CHAMFER DETAILS



**15 FOUNDATION NECK DETAILS**



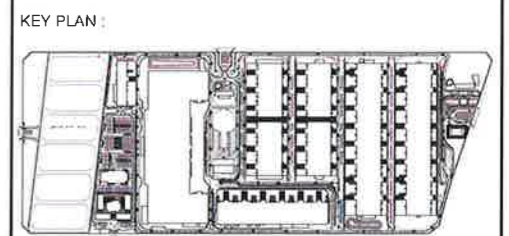
DIAMETER	T (mm)	E (mm)	L (mm)	X (mm)	OVERALL LENGTH (mm)
18mm	150	475	625	175	800
20mm	150	475	625	175	800
24mm	150	1145	1295	205	1500
32mm	250	1285	1505	295	1800

HOLDING DOWN BOLTS

**GENERAL NOTES:-**  
 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.  
 2. ALL COORDINATES TO QATAR NATIONAL GRID & ALL LEVELS RELATIVE TO QATAR NATIONAL DATUM.  
 3. CONCRETE GRADE:-  
 FOUNDATION SRC 35  
 BLINDING SRC 25

**LEGENDS:-**  
 T.O.F = TOP OF FOUNDATION  
 B.O.F = BOTTOM OF FOUNDATION

**NOTES:-**



**REFERENCE CONTRACT DRAWINGS**

DRAWING NUMBER	REV	DRAWING TITLE
2536-CF-S-100	00	LIGHTING POLE FOUNDATION DETAILS

**REFERENCE SHOP DRAWINGS**

DRAWING NUMBER	REV	DRAWING TITLE
2536-SD-EX-EL-GE-01-001/002	02	STREET LIGHTING LAYOUT
2536-SD-EX-CH-EL-GE-01-001/002	00	STREET LIGHTING POLES - FOUNDATION LAYOUT
2536-SD-EX-CI-EL-GE-01-002	00	STREET LIGHTING POLES FOUNDATION, TYPICAL REINFORCEMENT DETAILS

Certified for co-ordination with contract documents

DEPARTMENT	COMPANY	SIGNATURE	DATE
ARCHITECTURAL	METRIX	[Signature]	19.11.2017
STRUCTURAL	METRIX	[Signature]	19.11.2017
MECHANICAL	METRIX	[Signature]	19.11.2017
ELECTRICAL	METRIX	[Signature]	19.11.2017

**DRAWING STATUS**

REV.	DESCRIPTION	DATE	OWN	CHKD	APPD	APPD
00	ISSUED FOR APPROVAL	19.11.2017	S.R	M.M.	M.M.	A.K.

Project :- **WAREHOUSING & LOGISTIC PARK AT UMM SHAHARAIN 1**



**STREET LIGHTING POLES FOUNDATION TYPICAL FRAMING DETAILS**