أدنـــوك
ADNOC

SK engineering & construction

P.O No. 17137D-IN-PO-NB610-01

Contractor Project No. 17127D

EPC FOR M PROJECT
Custody Metering System

Gantry & JIB Crane Detail Drawing

☐	1	**REJECTED** Revise and resubmit.
☐	2	**COMMENTS AS NOTED** Work may proceed subject to compliance with and incorporation of comment.
☑	3	**NO COMMENTS** Work may proceed.
☐	4	**INFORMATION ONLY** Accepted for information only.

This approval does not relieve the vendor of his responsibility to meet purchase order conditions relating to duty, specifications, materials, design, construction and delivery requirements.

APPR'D	Walter Song	DATE	12.Oct.2021

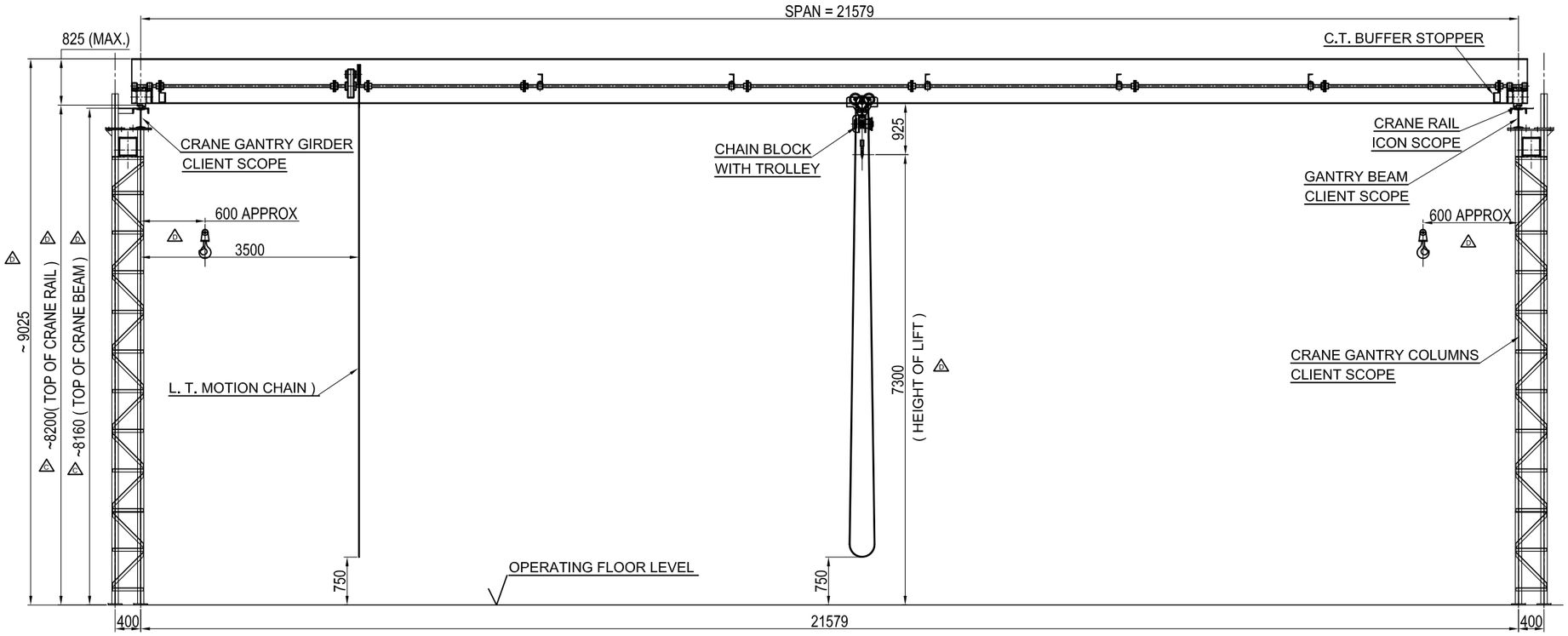
REV.	DATE	ORIGINATOR	REVIEWED	APPROVED	DESCRIPTION
1	04/10/2021	RM	RM	SR	ISSUED FOR FINAL
B	14/07/2021	RM	RM	SR	RE-ISSUED FOR REVIEW
A	25/02/2021	LK	LK	SR	ISSUED FOR REVIEW

THIS DOCUMENT IS INTENDED FOR USE BY ADNOC AND ITS NOMINATED CONSULTANTS, CONTRACTORS, MANUFACTURERS AND SUPPLIERS.

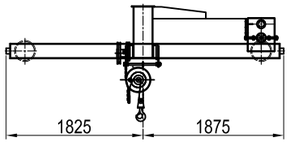
VENDOR

Alderley

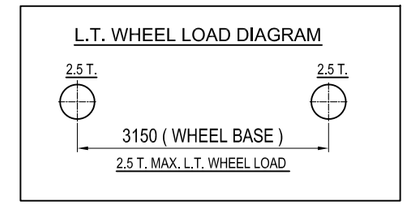
Printed on: Printed by:

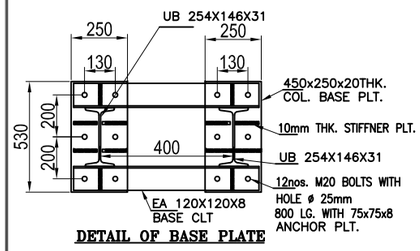


ELEVATION

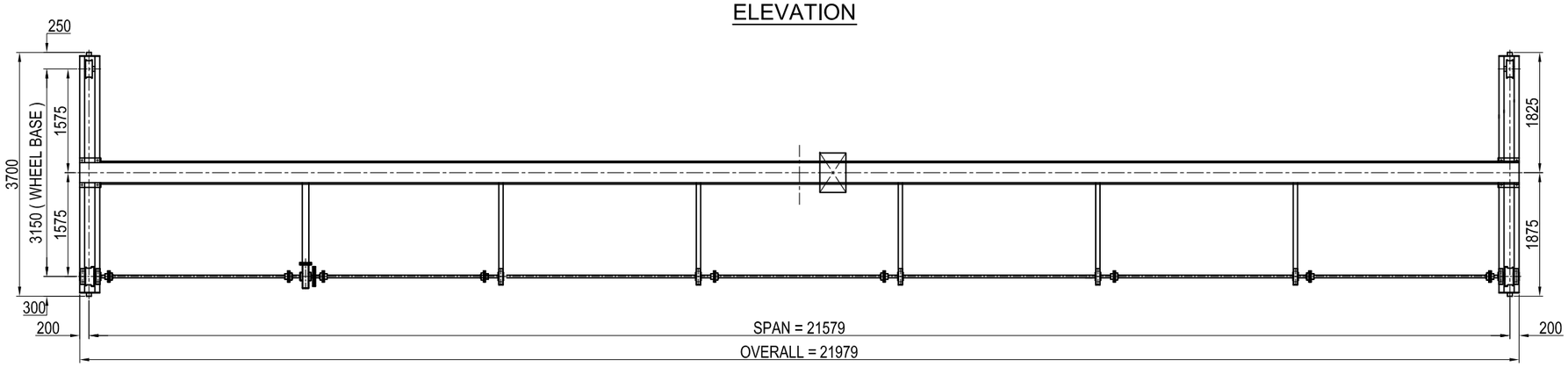


SIDE VIEW





DETAIL OF BASE PLATE



PLAN

NOTES -

1) ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED.

- [ ] 1 REJECTED — Revise and resubmit.
- [ ] 2 COMMENTS AS NOTED — Work may proceed subject to compliance with and incorporation of comment.
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APPR'D	DATE

TECHNICAL DATA

CAPACITY	2.4 TONNES
SPAN	21.579 M
HT OF LIFT	7.3 M
DUTY	MEDIUM DUTY
MOTION	HOIST : MANUAL
	C.T : MANUAL
	L.T : MANUAL
WEIGHT	5T APPROX
PAINTING SYSTEM AS PER ADNOC	
SPEC. DOC. NO. 30.99.37.0013 REV 2 - LCI-N Painting System	

MATERIAL OF CONSTRUCTION

HOOK	AS PER BIS IS : 15560
CHAIN	AS PER BIS IS : 6216
COLUMN	BIS 2062 E250BR / A106GR B
GEARS / PINION	CARBON STEEL C-45, Mn75, En 8
C.T. WHEELS	SPARKPROOF CONSTRUCTION
STEEL	AS PER BIS : 2062 E250BR
ROLLER	SPARKPROOF CONSTRUCTION
BOLT	STEEL: GRADE 4.6

Manufacturer's Name & Location :	ICON ENGINEERING LLP Thane
Vendor's Name & Reference No. :	ALDERLEY
Purchaser's Name, Order No. & Equipment No. :	ADNOC
Project No. :	27136M
Serial No. :	IE-160 / IE-161 / IE-162
Capacity :	2.4T MANUAL OVERHEAD CRANE
Year Of Manufacture :	2019

REV.	DATE	DR'N.	CH'D.	AP'D.	DESCRIPTION
D	04.09.19	PD	VISHAL	AMB	REVISED AS PER CLIENT COMMENTS
C	31.08.19	PD	VISHAL	AMB	REVISED AS PER CLIENT COMMENTS
B	01.07.19	PD	VISHAL	AMB	REVISED AS PER CLIENT COMMENTS
A	12.06.19	PD	VISHAL	AMB	REVISED FOR COLUMN SECTION

SCALE: NTS | LOCATION: | PROJECT No. 27136M

ADNOC

CONTRACTOR: SK engineering & construction

ALDERLEY FZE

DRAWING No. 27136M-01-D-0101-01 | PO No. 27136M-01-D-0101-01

PROJECT: FLOW METERING SYSTEMS FOR "M" PROJECT-FUJAIRAH, UAE

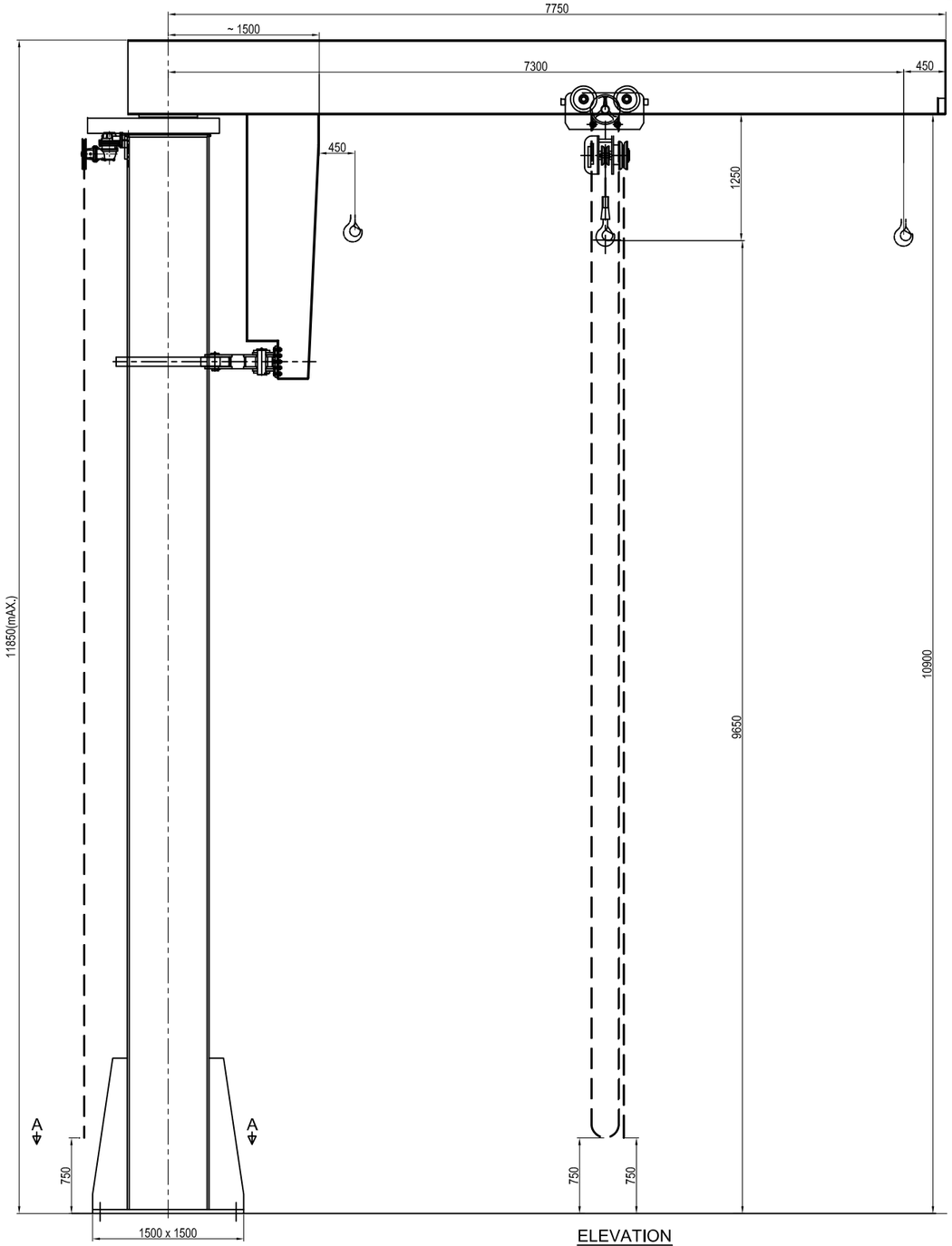
DRG. TITLE: GENERAL ARRANGEMENT DRAWING
OVERHEAD CRANE FOR ZAKUM/DAS/MURBAN

DRG.No.	00	84	GA	160	D	1	/	1
	AREA	P/AREA	DOC. CODE	SERIAL No.	REV.	SHT	OF	SHT

TB_VERSION

GAD AFZE 2T OVERHEAD CRANE E.DWG

Printed on: Printed by:



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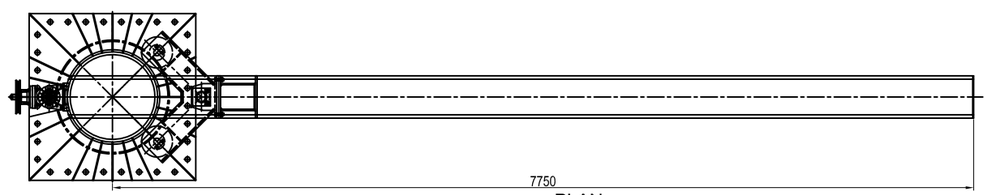
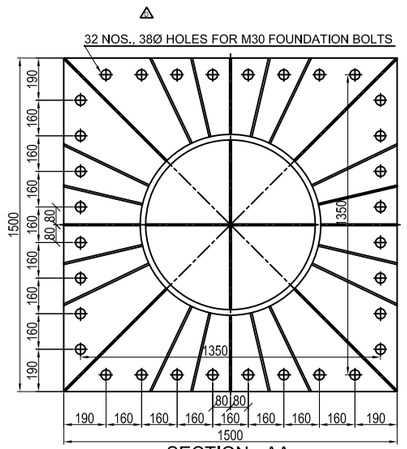


PLAN



SECTION - AA

TECHNICAL DATA

CAPACITY	5.2 T
HT OF LIFT	9650 mm
SPAN /BOOM LENGTH	7750 mm
DUTY	MEDIUM DUTY
POWER SUPPLY	N.A.
MOTION	HOIST: MANUAL
	C.T : MANUAL
	SLEW : MANUAL
BRAKE	DISC
TOTAL WEIGHT	9.5 T Approx
HAZARDOUS AREA CLASSIFICATION - ZONE 2, IIA IIB, Temp Group T3, IP 55	

MATERIAL OF CONSTRUCTION

HOOK	AS PER BIS IS : 15560
CHAIN	AS PER BIS IS : 6216
COLUMN PIPE	ERW/SEAMLESS PIPE -BIS2062 E250BR / A106GR B
GEARS / PINION	CARBON STEEL C-45, Mn75, En 8
C.T. WHEELS	SPARKPROOF CONSTRUCTION
STEEL	BIS : 2062 E250BR
ROLLER	SPARKPROOF CONSTRUCTION
ANCHOR BOLT	STEEL : GRADE 4.6

LOADS & MOMENTS

4	HORIZONTAL WIND FORCE AT SERVICE WIND	60 KG
3	BENDING MOMENT - AT SWL	55000 Kg.M
2	TORSION	927 Kg.M
1	VERTICAL LOAD (CAPACITY + SELF WEIGHT)	(5200 + 9500) Kg

SR. NO.	DESCRIPTION	QTY.
5	GEARED SLEW MECHANISM	1
4	5.2 T. CAPACITY MANUAL CHAIN HOIST	1
3	GUIDE ROLLER ASSLY	1
2	GIRDER	1
1	COLUMN	1

NOTES -

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APPR'D	DATE

REV.	DATE	DR'N.	CH'D.	AP'D.	DESCRIPTION
C	19.09.19	PD	VISH	AMB	HEIGHT OF LIFT INCREASED BY 150mm
B	06.08.19	PD	VISH	AMB	AS PER CLIENT COMMENTS
A	20.0719	PD	VISH	AMB	BASE PLATE REVISED

SCALE: NTS | LOCATION: | PROJECT No. 27136M

Manufacturer's Name & Location :	ICON ENGINEERING LLP Thane
Vendor's Name & Reference No. :	ALDERLEY
Purchaser's Name, Order No. & Equipment No. :	ADNOC
Project No. :	27136M
Serial No. :	IE-157 / IE-158 / IE-159
Capacity :	5.2 T JIB CRANE
Year Of Manufacture :	2019

ADNOC

CONTRACTOR: SK engineering & construction

ALDERLEY FZE

DRAWING No. 27136M-01-D-0101-01 | PO No.

PROJECT: FLOW METERING SYSTEMS FOR "M" PROJECT-FUJAIRAH, UAE

DRG. TITLE: GENERAL ARRANGEMENT DRAWING JIB CRANE FOR ZAKUM/DAS/MURBAN

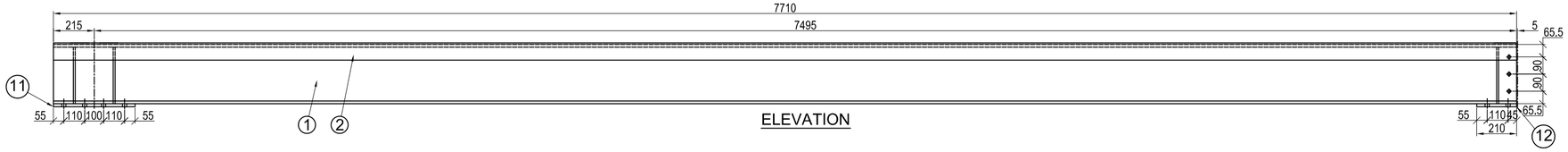
DRG.No.	AREA	P/AREA	DOC. CODE	SERIAL No.	REV.	SHT	OF	SHT
		84	SGA	0157	D	1	/	1

TB_VERSION

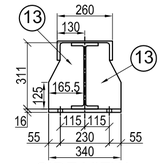
GAD ALDERLEY 5T JIB CRANE D.DWG

DETAILS OF GANTRY GIRDER = CB-5

(QTY. REQD. - 4 NOS.)

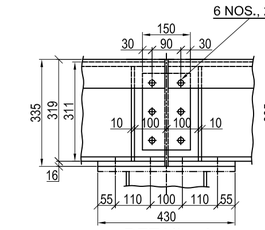


ELEVATION

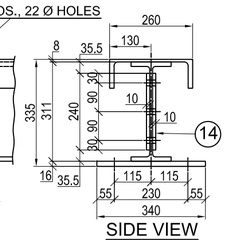


SIDE VIEW

(FOR LOCATION OF DETAIL-A REF SH 1 OF 3)



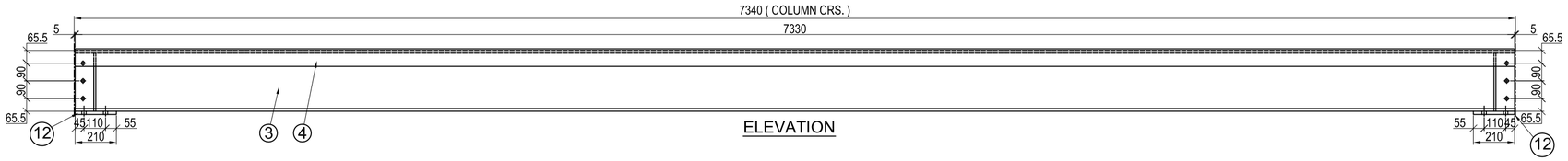
DETAIL - A



SIDE VIEW

DETAILS OF GANTRY GIRDER = CB-4

(QTY. REQD. - 2 NOS.)



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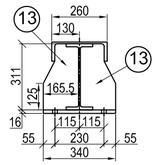
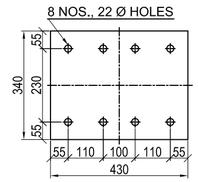
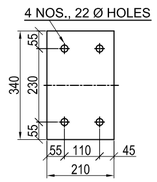


SIDE VIEW



ITEM NO. 11



ITEM NO. 12

DETAILS OF GANTRY GIRDER = CB-3

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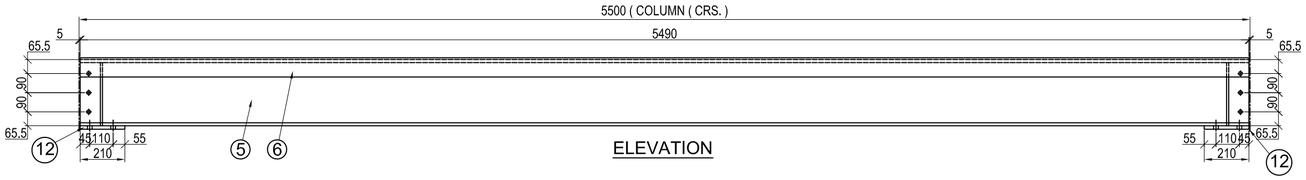

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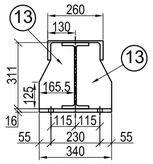


SIDE VIEW

NOTES -

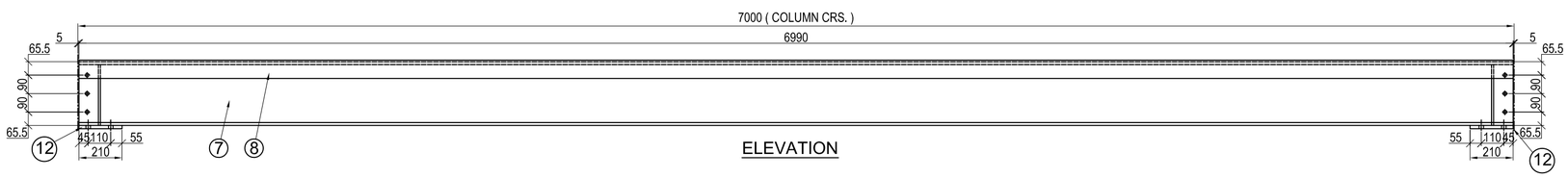
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR BOTH SIDES GANTRY GIRDER & TIE BEAM.

TOTAL WEIGHT = 16640 K.G.

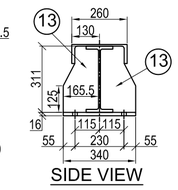
SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
22	PLATE 12 THK. x 280 x 685 LG.	4	BSEN10025 S275 JR	18.0	72.0
21	PFC 260x 90 x 35 x 4101 LG.	8	BSEN10025 S275 JR	142.7	1141.6
20	PFC 260 x 90 x 35 x 8526 LG.	4	BSEN10025 S275 JR	296.7	1186.8
19	UB 254 x 146 x 31 x 5729 LG.	4	BSEN10025 S355 JR	177.5	710.0
18	UB 254 x 146 x 31 x 6729 LG.	4	BSEN10025 S355 JR	208.5	834.0
17	UB 254 x 146 x 31 x 5229 LG.	4	BSEN10025 S355 JR	162.0	648.0
16	UB 254 x 146 x 31 x 7069 LG.	2	BSEN10025 S355 JR	219.1	438.2
15	UB 254 x 146 x 31 x 7610 LG.	4	BSEN10025 S355 JR	235.9	943.6
14	PLATE 10 THK. x 150 x 240 LG.	32	BSEN10025 S275 JR	2.8	89.6
13	PLATE 10 THK. x 165 x 311 LG.	80	BSEN10025 S275 JR	4.0	320.0
12	PLATE 16 THK. x 210 x 340 LG.	32	BSEN10025 S275 JR	9.0	288.0
11	PLATE 16 THK. x 340 x 430 LG.	4	BSEN10025 S275 JR	18.3	73.2
10	PFC 260 x 90 x 35 x 5990 LG.	4	BSEN10025 S275 JR	208.4	833.6
9	UB 305 x 127 x 48 x 5990 LG.	4	BSEN10025 S355 JR	288.1	1152.4
8	PFC 260x 90 x 35 x 6990 LG.	4	BSEN10025 S275 JR	243.2	972.8
7	UB 305 x 127 x 48 x 6990 LG.	4	BSEN10025 S355 JR	336.2	1344.8
6	PFC 260x 90 x 35 x 5490 LG.	4	BSEN10025 S275 JR	191.0	764.0
5	UB 305 x 127 x 48 x 5490 LG.	4	BSEN10025 S355 JR	264.0	1056.0
4	PFC 260x 90 x 35 x 7330 LG.	2	BSEN10025 S275 JR	255.0	510.0
3	UB 305 x 127 x 48 x 7330 LG.	2	BSEN10025 S355 JR	352.5	705.0
2	PFC 260x 90 x 35 x 7710 LG.	4	BSEN10025 S275 JR	268.3	1073.2
1	UB 305 x 127 x 48 x 7710 LG.	4	BSEN10025 S355 JR	370.8	1483.2

DETAILS OF GANTRY GIRDER = CB-2

(QTY. REQD. - 4 NOS.)



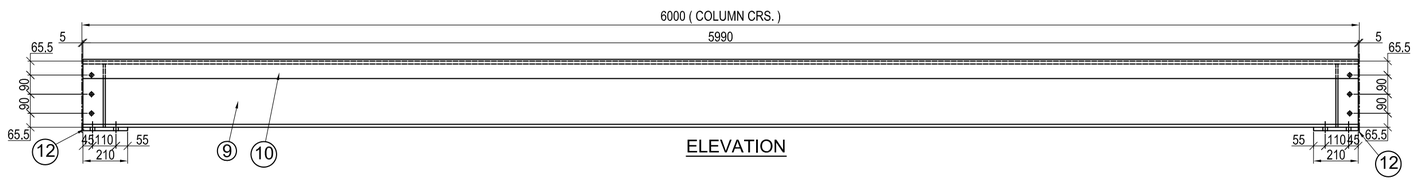
ELEVATION



SIDE VIEW

DETAILS OF GANTRY GIRDER = CB-1

(QTY. REQD. - 4 NOS.)



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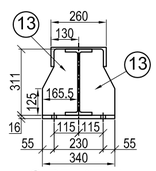

SIDE VIEW

SURFACE FINISH SYMBOLS			
Symbol	Roughness (CLA) Microns		
	0.4	TO	0.8
	0.8	TO	1.6
	1.6	TO	4.0
	4.0	TO	8.0
	8.0	TO	25.0

Machining after welding

Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - DAS

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

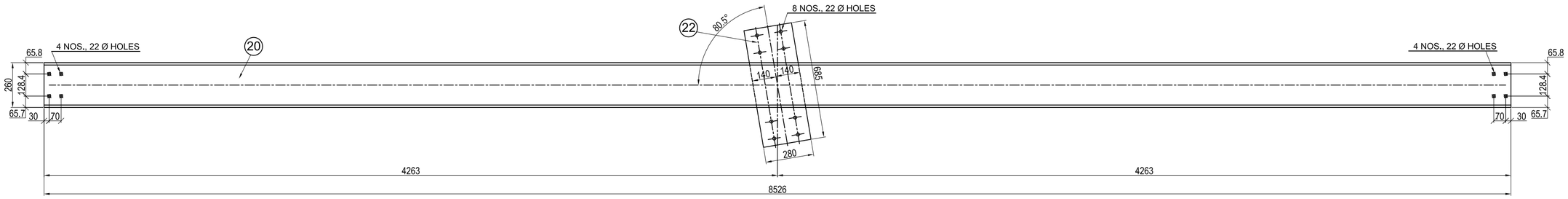
Title : DETAILS OF GANTRY GIRDER & TIE BEAM
FOR 2 T. HOT CRANE (SHEET 2 OF 3)

DESIGN	AMB	22 / 11 / 2019	PROJECT NO. -	SCALE 1 : 20	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-161-GG-02		REV. R5
APPROVED					

A2

DETAILS OF GANTRY GIRDER = JB-1

(QTY. REQD. - 4 NOS.)



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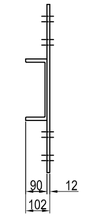
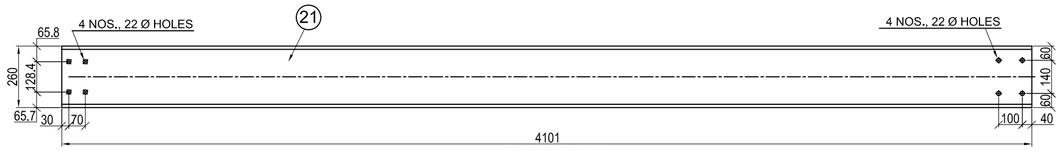


SIDE VIEW

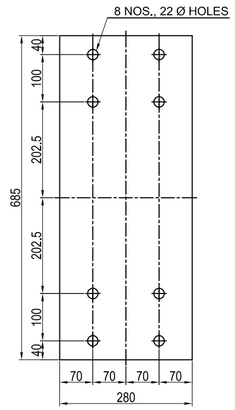
DETAILS OF GANTRY GIRDER = JB-2

(QTY. REQD. - 4 NOS.)



ELEVATION

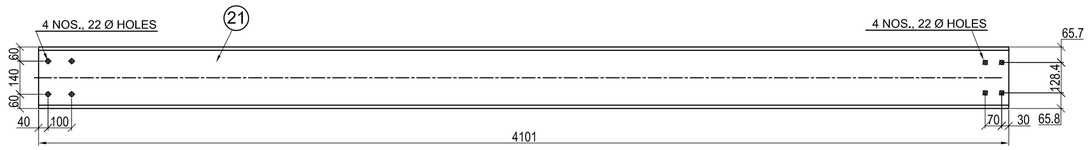
SIDE VIEW



DETAILS OF ITEM NO. 22

DETAILS OF GANTRY GIRDER = JB-3

(QTY. REQD. - 4 NOS.)



ELEVATION

SIDE VIEW

SURFACE FINISH SYMBOLS			
Symbol	Roughness (CLA) Microns		
F3	0.4 TO 0.8	F1	4.0 TO 8.0
F3	0.8 TO 1.6	F2	8.0 TO 25.0
F2	1.6 TO 4.0		Machining after welding
			Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - DAS

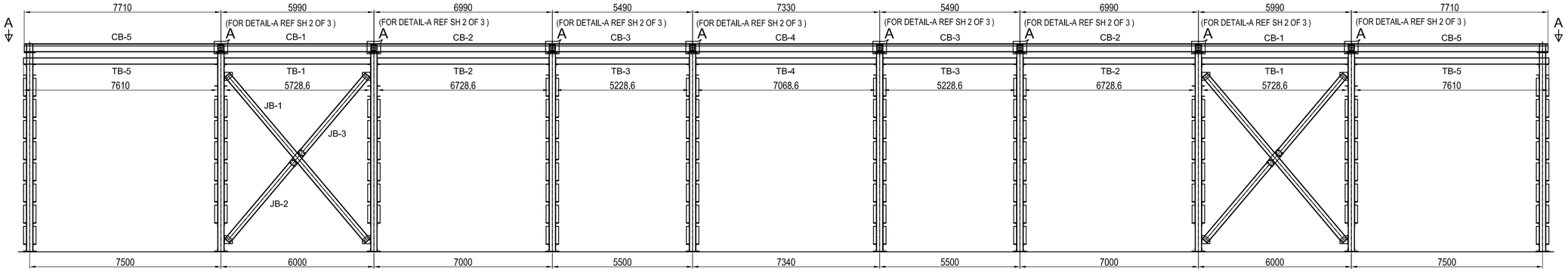
EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

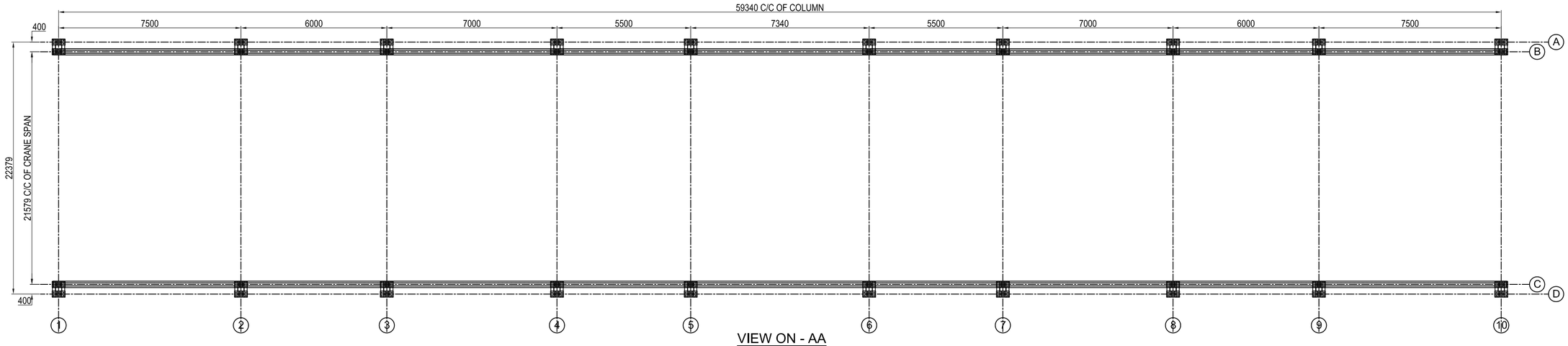
Title : DETAILS OF GANTRY GIRDER & TIE BEAM
FOR 2 T. HOT CRANE (SHEET 3 OF 3)

DESIGN	AMB		PROJECT NO.	SCALE	PROJECTION
DRAWN	ANIL		-	1 : 18	
CHECKED	AMB		DRAWING NO.		REV.
APPROVED			IE-161-GG-02		R5

A2



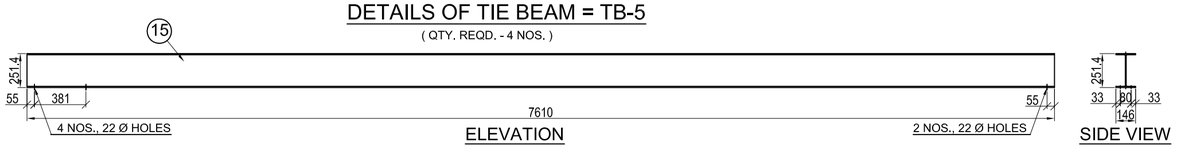
ELEVATION



VIEW ON - AA

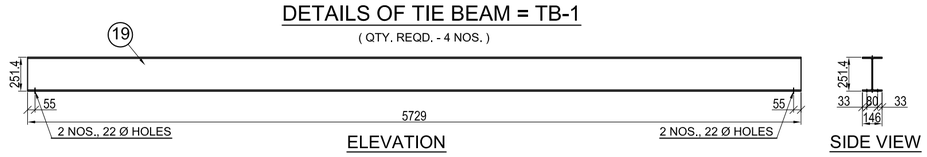
DETAILS OF TIE BEAM = TB-5

(QTY. REQD. - 4 NOS.)



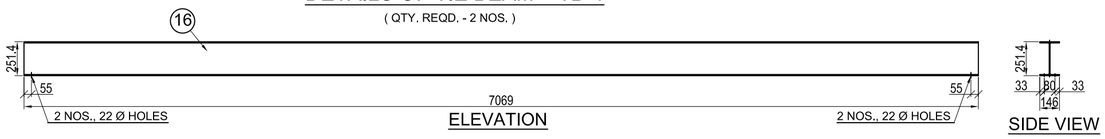
DETAILS OF TIE BEAM = TB-1

(QTY. REQD. - 4 NOS.)



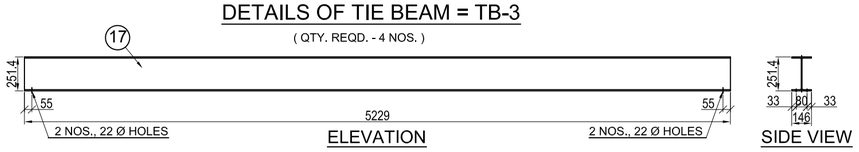
DETAILS OF TIE BEAM = TB-4

(QTY. REQD. - 2 NOS.)



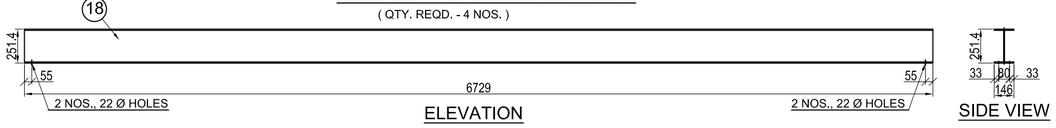
DETAILS OF TIE BEAM = TB-3

(QTY. REQD. - 4 NOS.)



DETAILS OF TIE BEAM = TB-2

(QTY. REQD. - 4 NOS.)



REV.	DESCRIPTION	DATE	DRN.	CHD.
R5	REVISED AS PER CLIENT'S COMMENTS	05.03.20	ANIL	AMB
R4	REVISED AS PER CLIENT'S COMMENTS	05.03.20	ANIL	AMB
R3	REVISED AS PER CLIENT'S COMMENTS	26.02.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	24.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB

SURFACE FINISH SYMBOLS

Symbol	Roughness (CLA) Microns
F4	0.4 TO 0.8
F3	0.8 TO 1.6
F2	1.6 TO 4.0
F1	4.0 TO 8.0
	8.0 TO 25.0

Machining after welding

Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - DAS

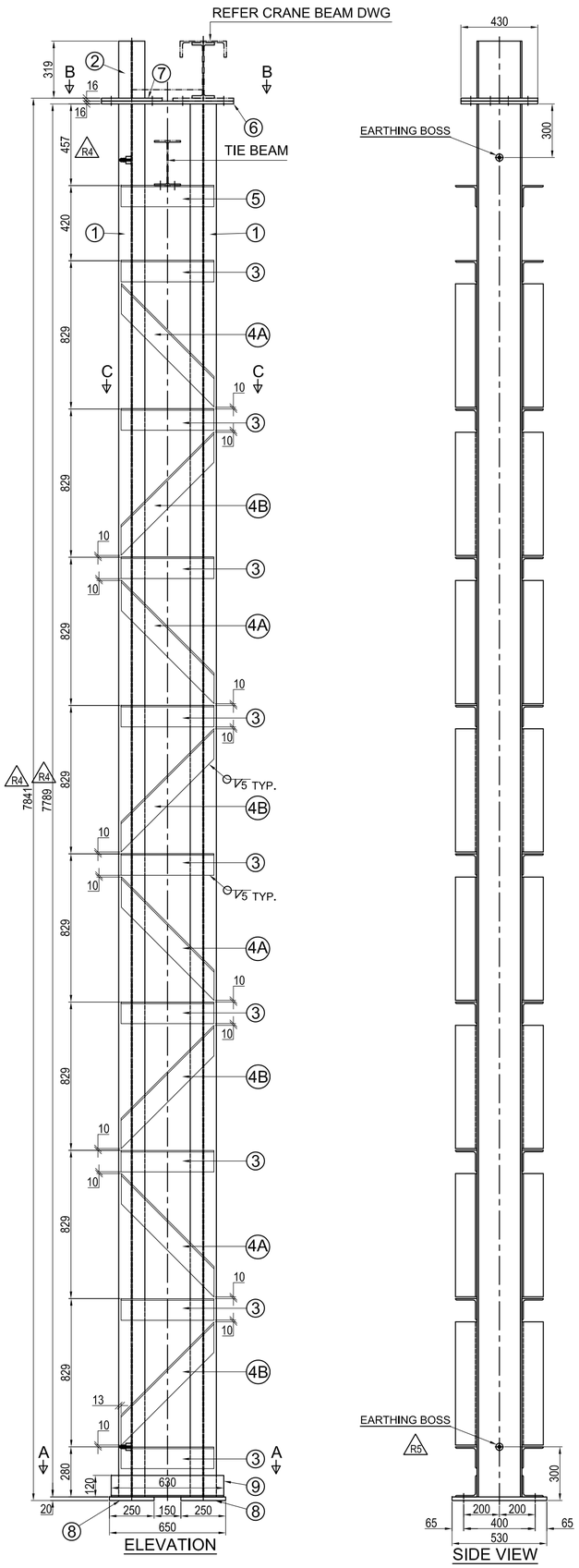
EQUIPMENT TAG NOS :

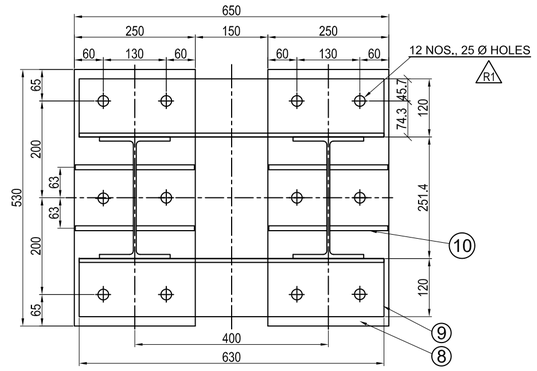
ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

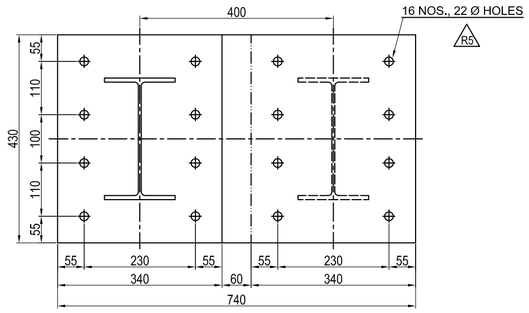
Title : DETAILS OF GANTRY GIRDER & TIE BEAM
FOR 2 T. HOT CRANE (SHEET 1 OF 3)

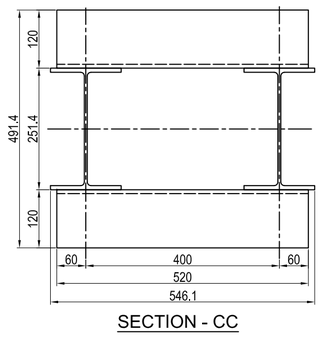
DESIGN	AMB	24 / 11 / 2019	PROJECT NO.	SCALE	PROJECTION
DRAWN	ANIL		-	1 : 125	
CHECKED	AMB		DRAWING NO.		REV.
APPROVED			IE-161-GG-02		R5

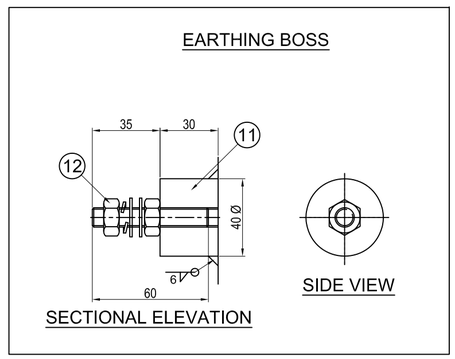
A2

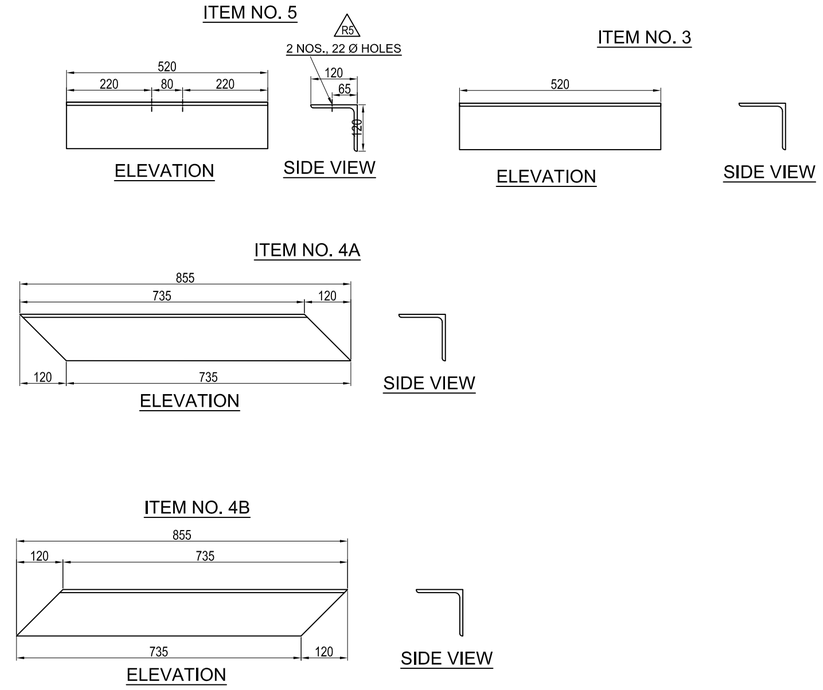












NOTES -
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR ONE NO. COLUMN .

COLUMN - C1
QTY. REQD. = 12 NOS.

SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
12	STUD M-10 x 60 LG. WITH STD. 2 NUT, 2 PL. WASHER & 1 SP. WASHER	2 SET	-		
11	ROUND BAR - 40 mm DIA. x 30 LG.	2	BSEN10025	0.2	0.4
10	PLATE 10 THK. x 120 x 120 LG.	8	S275 JR	1.1	8.8
9	ANGLE 120 x 120 x 8 x 630 LG.	2	BSEN10025	9.2	18.4
8	PLATE 20 THK. x 250 x 530 LG.	2	S275 JR	20.8	41.6
7	PLATE 16 THK. x 340 x 430 LG.	1	BSEN10025	18.3	18.3
6	PLATE 16 THK. x 430 x 740 LG.	1	S275 JR	40.0	40.0
5	ANGLE 120 x 120 x 8 x 520 LG.	2	BSEN10025	7.6	15.2
4B	ANGLE 120 x 120 x 8 x 855 LG.	8	S275 JR	10.8	86.4
4A	ANGLE 120 x 120 x 8 x 855 LG.	8	BSEN10025	10.8	86.4
3	ANGLE 120 x 120 x 8 x 520 LG.	18	S275 JR	7.6	136.8
2	UB 254 x 146 x 31 x 319 LG.	1	BSEN10025	9.9	9.9
1	UB 254 x 146 x 31 x 7789 LG.	2	S355 JR	241.4	482.8
	TOTAL WEIGHT PER COLUMN = 945 K.G.				
	TOTAL WEIGHT (12 COLUMNS) = 11340 K.G.				

REV.	DESCRIPTION	DATE	DRN.	CHD.
R5	REVISED AS PER CLIENT'S COMMENTS	05.03.20	ANIL	AMB
R4	REVISED AS PER CLIENT'S COMMENTS	26.02.20	ANIL	AMB
R3	REVISED AS PER CLIENT'S COMMENTS	24.02.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	19.12.19	ANIL	AMB

PO REF NO :
CLIENT : ALDERLY
MANUFACTURER : ICON ENGINEERING LLP
LOCATION : ADNOC - MANDOUS - DAS
EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF COLUMN - C1
FOR 2 T. HOT CRANE (59.34 M. BAY LENGTH)

DESIGN	AMB	22 / 11 / 2019	PROJECT NO. -	SCALE 1 : 22	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-161-GG-03		REV. R4
APPROVED					

SURFACE FINISH SYMBOLS			
Symbol	Roughness (CLA) Microns		
F1	0.4 TO 0.8	F5	4.0 TO 8.0
F3	0.8 TO 1.6	F6	8.0 TO 25.0
F2	1.6 TO 4.0		

F5 Machining after welding
F6 Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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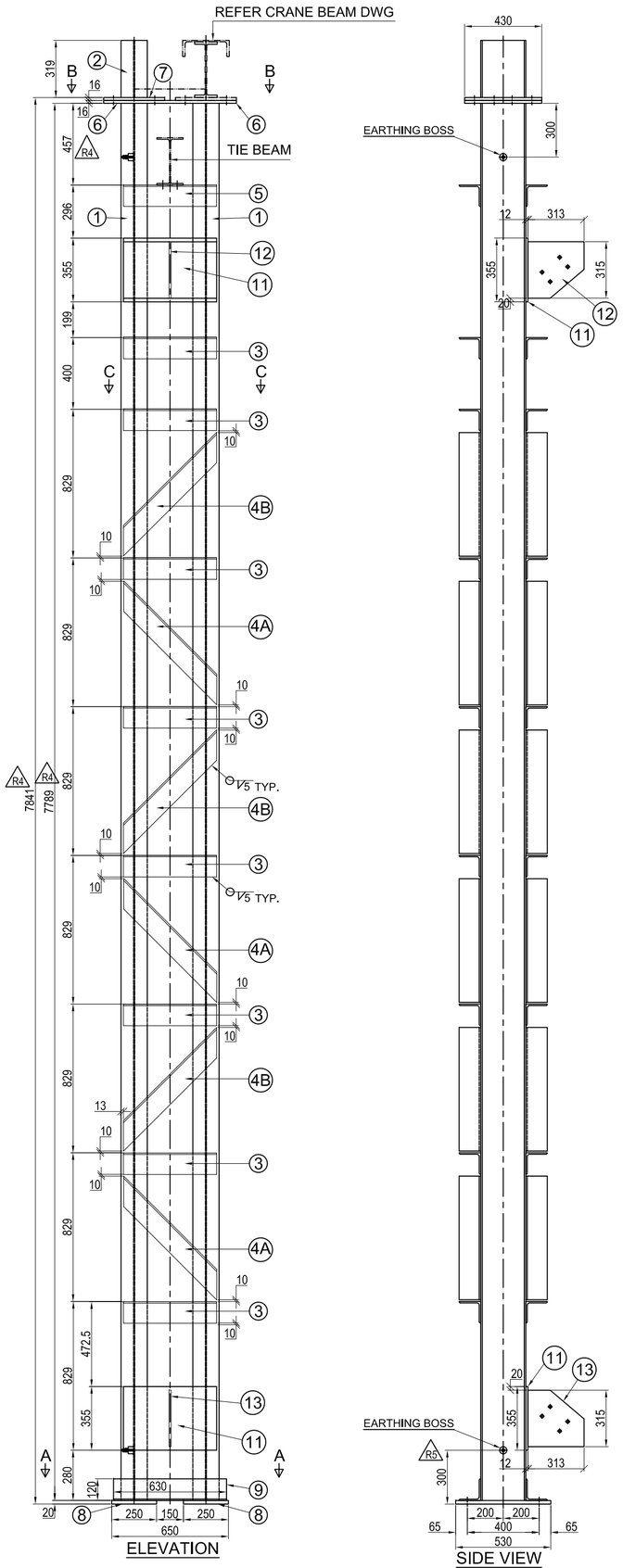
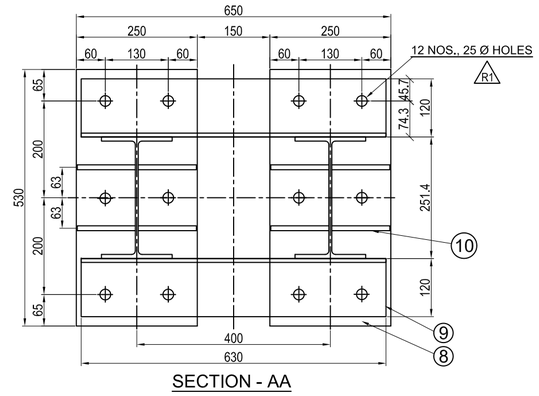
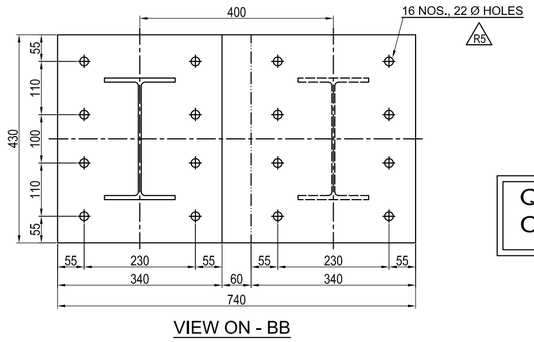
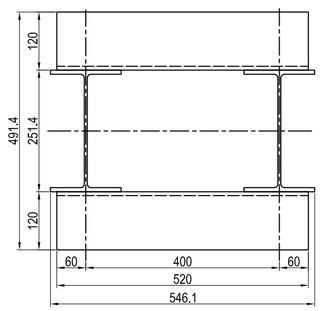
A2

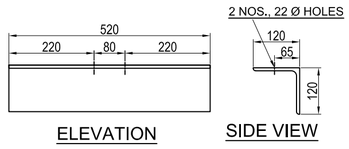




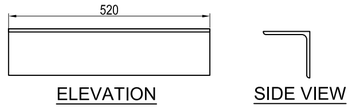




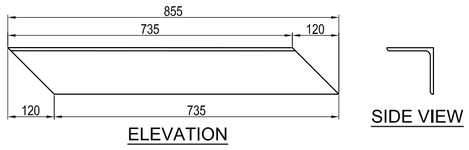
ITEM NO. 5

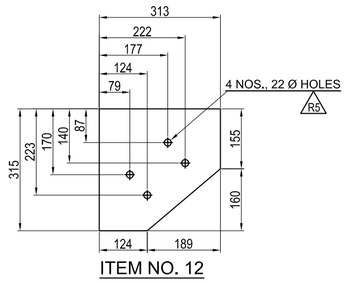


ITEM NO. 3

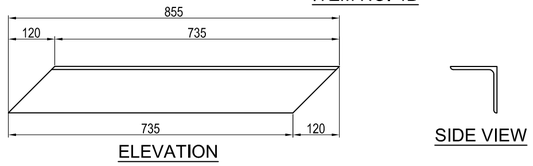


ITEM NO. 4A



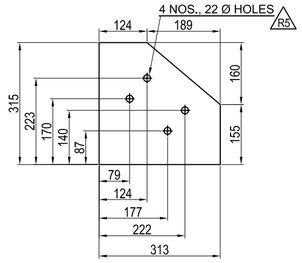


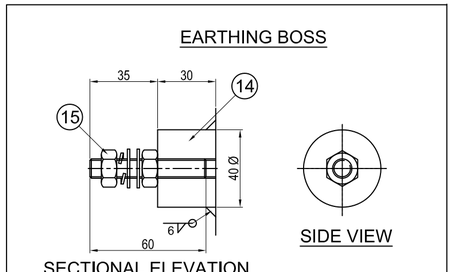
ITEM NO. 4B



QTY. REQD.
COLUMN - C2 = 7 nos.

NOTES -
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR ONE NO. COLUMN .





	SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
R6	15	STUD M-10 x 60 LG. WITH STD. 2 NUT, 2 PL. WASHER & 1 SP. WASHER	2 SET	-		
R5	14	ROUND BAR - 40 mm DIA. x 30 LG.	2	BSEN10025 S275 JR	0.2	0.4
	13	PLATE 12 THK. x 313 x 315 LG.	1		7.8	7.8
	12	PLATE 12 THK. x 313 x 315 LG.	1		7.8	7.8
	11	PLATE 12 THK. x 355 x 520 LG.	2	BSEN10025	17.1	34.2
	10	PLATE 10 THK. x 120 x 120 LG.	8	S275 JR	1.1	4.4
	9	ANGLE 120 x 120 x 8 x 630 LG.	2	BSEN10025	9.2	18.4
	8	PLATE 20 THK. x 250 x 530 LG.	2	S275 JR	20.8	41.6
	7	PLATE 16 THK. x 340 x 430 LG.	1	BSEN10025	18.3	18.3
	6	PLATE 16 THK. x 430 x 740 LG.	1	S275 JR	40.0	40.0
	5	ANGLE 120 x 120 x 8 x 520 LG.	2	BSEN10025	7.6	15.2
R3	4B	ANGLE 120 x 120 x 8 x 855 LG.	6	S275 JR	10.8	64.8
R3	4A	ANGLE 120 x 120 x 8 x 855 LG.	6	BSEN10025	10.8	64.8
	3	ANGLE 120 x 120 x 8 x 520 LG.	16	S275 JR	7.6	121.6
	2	UB 254 x 146 x 31 x 319 LG.	1	BSEN10025	9.9	9.9
R1	1	UB 254 x 146 x 31 x 7789 LG.	2	S355 JR	241.4	482.8
		WEIGHT PER COLUMN = 932 K.G.				
		TOTAL WEIGHT (7 COLUMNS) = 6524 K.G.				

REV.	DESCRIPTION	DATE	DRN.	CHD.
R6	REVISED AS PER CLIENT'S COMMENTS	09.03.20	ANIL	AMB
R5	REVISED AS PER CLIENT'S COMMENTS	05.03.20	ANIL	AMB
R4	REVISED AS PER CLIENT'S COMMENTS	26.02.20	ANIL	AMB
R3	REVISED AS PER CLIENT'S COMMENTS	24.02.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	19.12.19	ANIL	AMB

PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - DAS

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF COLUMN - C2
FOR 2 T. HOT CRANE (59.34 M. BAY LENGTH)

DESIGN	AMB	22 / 11 / 2019	PROJECT NO. -	SCALE 1 : 22	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-161-GG-04		REV. R6
APPROVED					

SURFACE FINISH SYMBOLS		
Symbol	Roughness (CLA) Microns	
F4	0.4 TO 0.8	Machining after welding
F3	0.8 TO 1.6	Commercial finish produced by casting, forging & flame cutting. Burrs removed.
F2	1.6 TO 4.0	
F1	4.0 TO 8.0	
F0	8.0 TO 25.0	

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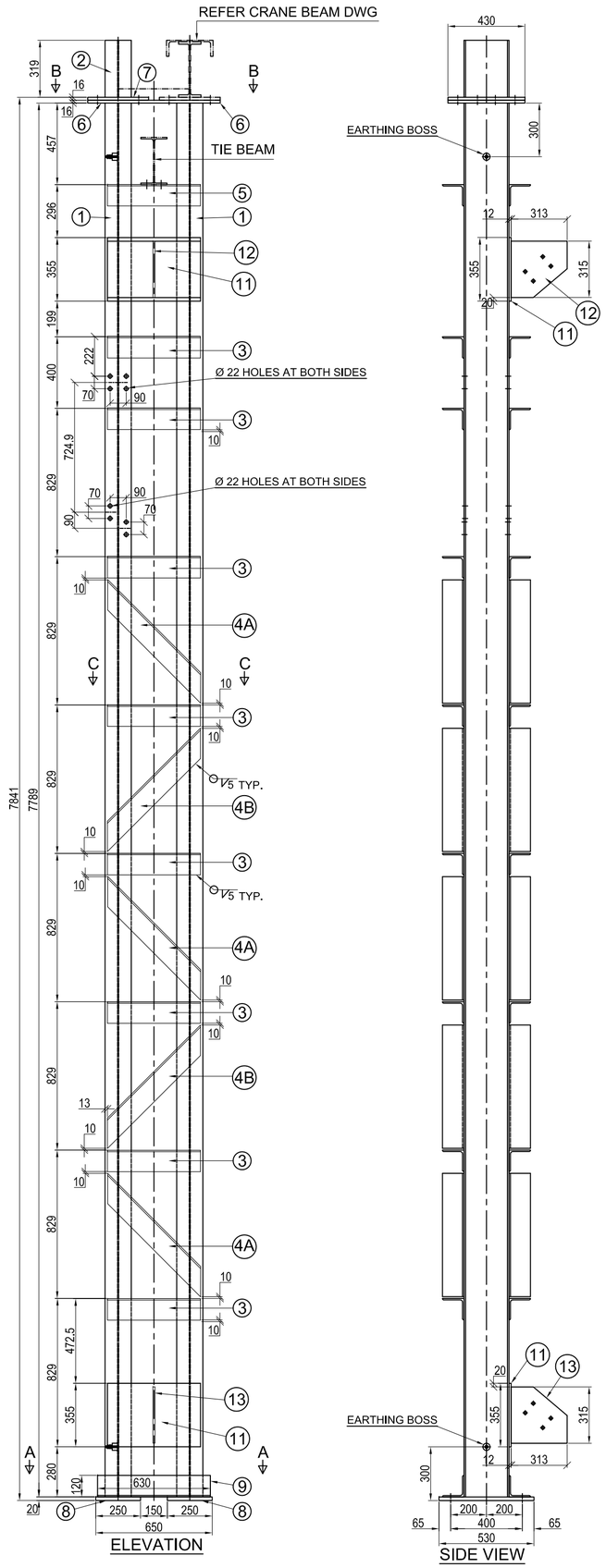
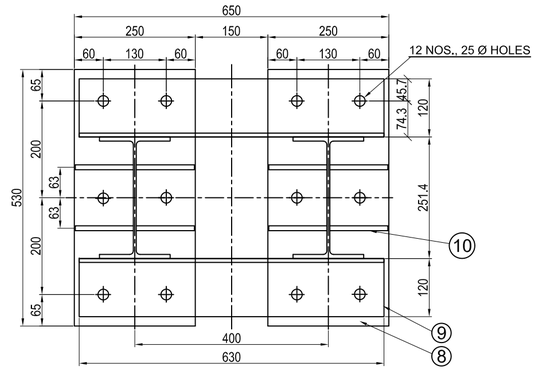
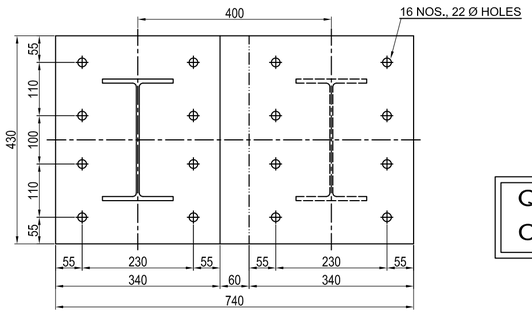


ELEVATION

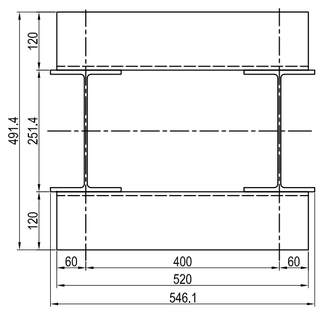
SIDE VIEW



SECTION - AA

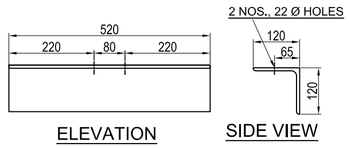


VIEW ON - BB



SECTION - CC

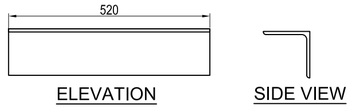
ITEM NO. 5



ELEVATION

SIDE VIEW

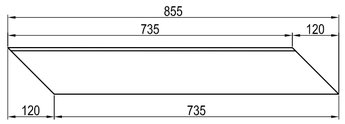
ITEM NO. 3



ELEVATION

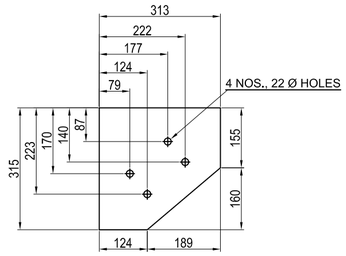
SIDE VIEW

ITEM NO. 4A



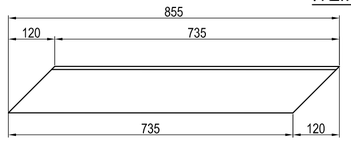
ELEVATION

SIDE VIEW



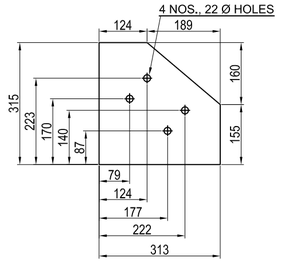
ITEM NO. 12

ITEM NO. 4B



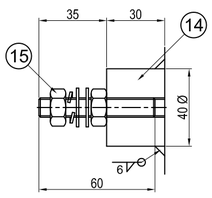
ELEVATION

SIDE VIEW



ITEM NO. 13

EARTHING BOSS



SECTIONAL ELEVATION

SIDE VIEW

QTY. REQD.
COLUMN - C2A = 1 no.

NOTES -
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR ONE NO. COLUMN .

SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
15	STUD M-10 x 60 LG. WITH STD. 2 NUT, 2 PL. WASHER & 1 SP. WASHER	2 SET	-		
14	ROUND BAR - 40 mm DIA. x 30 LG.	2	BSEN10025 S275 JR	0.2	0.4
13	PLATE 12 THK. x 313 x 315 LG.	1		7.8	7.8
12	PLATE 12 THK. x 313 x 315 LG.	1		7.8	7.8
11	PLATE 12 THK. x 355 x 520 LG.	2	BSEN10025	17.1	34.2
10	PLATE 10 THK. x 120 x 120 LG.	8	S275 JR	1.1	4.4
9	ANGLE 120 x 120 x 8 x 630 LG.	2	BSEN10025	9.2	18.4
8	PLATE 20 THK. x 250 x 530 LG.	2	S275 JR	20.8	41.6
7	PLATE 16 THK. x 340 x 430 LG.	1	BSEN10025	18.3	18.3
6	PLATE 16 THK. x 430 x 740 LG.	1	S275 JR	40.0	40.0
5	ANGLE 120 x 120 x 8 x 520 LG.	2	BSEN10025	7.6	15.2
4B	ANGLE 120 x 120 x 8 x 855 LG.	4	S275 JR	10.8	43.2
4A	ANGLE 120 x 120 x 8 x 855 LG.	6	BSEN10025	10.8	64.8
3	ANGLE 120 x 120 x 8 x 520 LG.	16	S275 JR	7.6	121.6
2	UB 254 x 146 x 31 x 319 LG.	1	BSEN10025	9.9	9.9
1	UB 254 x 146 x 31 x 7789 LG.	2	S355 JR	241.4	482.8
	WEIGHT PER COLUMN = 911 K.G.				
	TOTAL WEIGHT (1 COLUMNS) = 911 K.G.				

REV.	DESCRIPTION	DATE	DRN.	CHD.
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - DAS

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF COLUMN - C2A
FOR 2 T. HOT CRANE (59.34 M. BAY LENGTH)

DESIGN	AMB	22 / 11 / 2019	PROJECT NO. -	SCALE 1 : 22	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-161-GG-05		REV. R0
APPROVED					

A2

SURFACE FINISH SYMBOLS		
Symbol	Roughness (CLA) Microns	
F1	0.4 TO 0.8	Machining after welding
F2	0.8 TO 1.6	Commercial finish produced by casting, forging & flame cutting. Burrs removed.
F3	1.6 TO 4.0	
F4	4.0 TO 8.0	
F5	8.0 TO 25.0	

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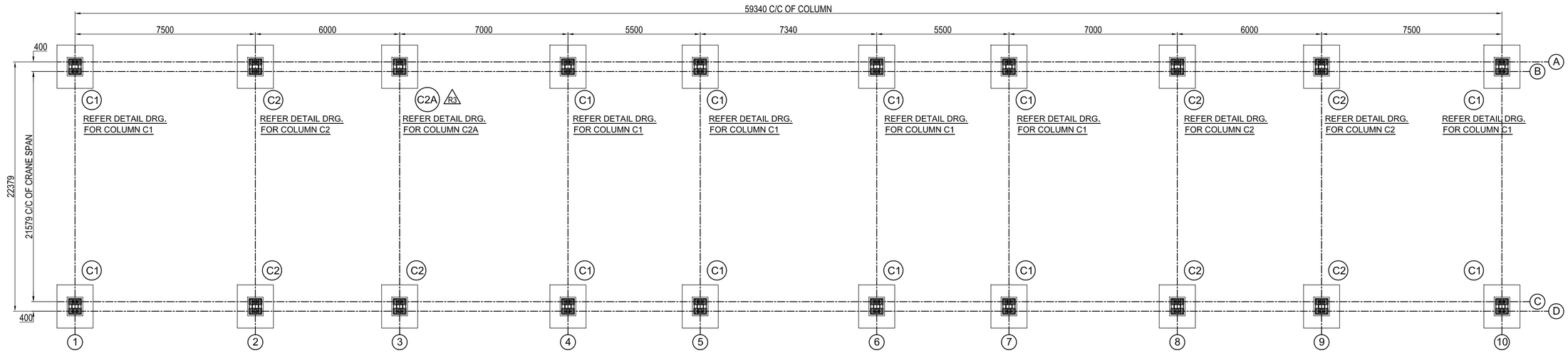
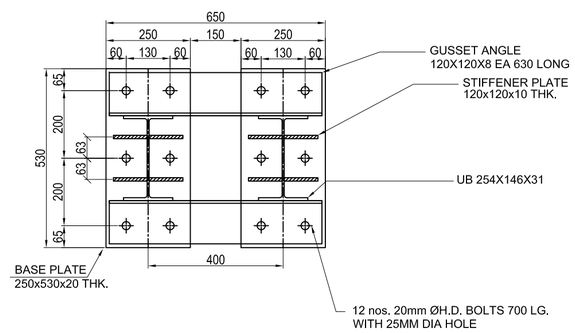


PLAN AT FOOTING LVL



DETAIL OF BASE PLT DETAIL

NOTES -

1) FOR COLUMN C1 REFER DRG. NO. IE-161-GG-03 REV. R6
2) FOR COLUMN C2 REFER DRG. NO. IE-161-GG-04 REV. R6
3) FOR COLUMN C2A REFER DRG. NO. IE-161-GG-05 REV. R0

REV.	DESCRIPTION	DATE	DRN.	CHD.
R3	REVISED AS PER CLIENT'S COMMENTS	09.03.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	27.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB

SURFACE FINISH SYMBOLS

Symbol	Roughness (CLA) Microns
F1	0.4 TO 0.8
F2	0.8 TO 1.6
F3	1.6 TO 4.0
F4	4.0 TO 8.0
F5	8.0 TO 25.0

Machining after welding

Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - DAS

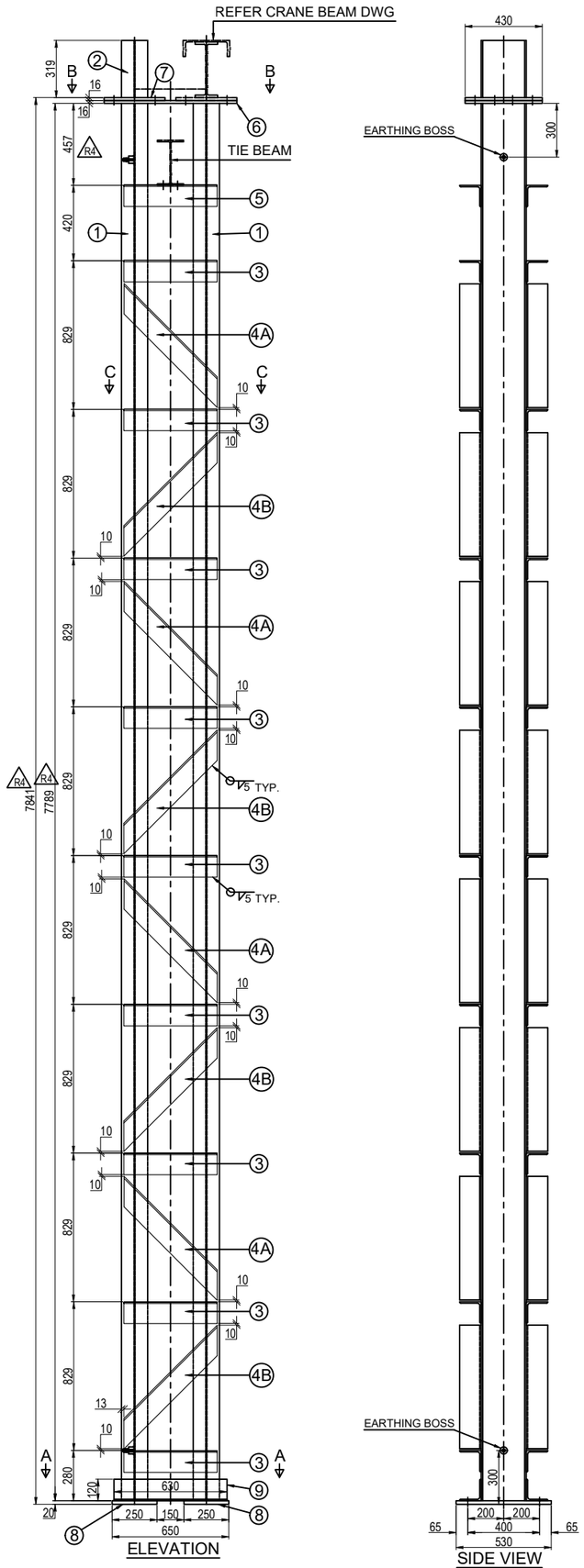
EQUIPMENT TAG NOS :

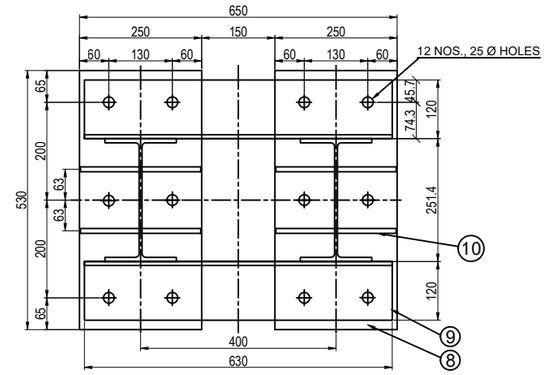
ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF FOUNDATION FOR 2 T. HOT CRANE

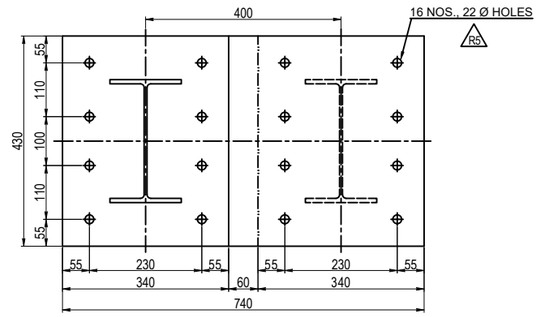
DESIGN	AMB	22 / 11 / 2019	PROJECT NO.	SCALE	PROJECTION
DRAWN	ANIL		-	1 : 125	
CHECKED	AMB		DRAWING NO.		REV.
APPROVED			IE-161-GG-01		R3

A2

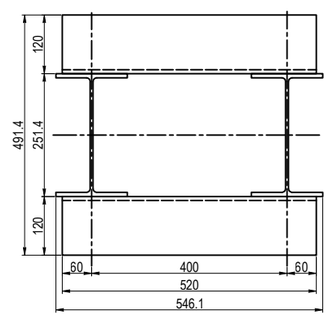




SECTION - AA

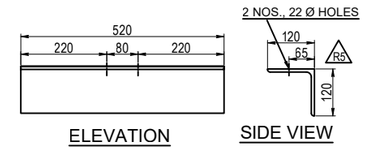


VIEW ON - BB

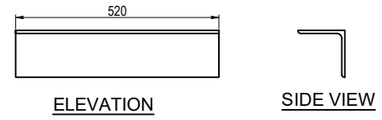


SECTION - CC

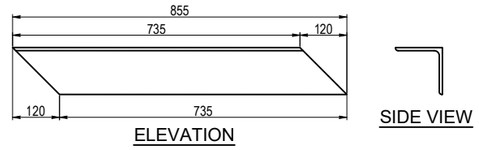
ITEM NO. 5



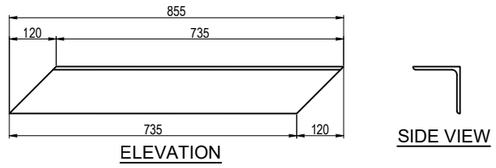
ITEM NO. 3



ITEM NO. 4A

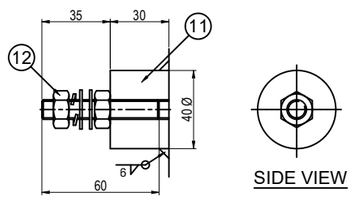


ITEM NO. 4B



COLUMN - C1
QTY. REQD. = 4 NOS.

EARTHING BOSS



NOTES -
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR ONE NO. COLUMN .

	SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
R4	12	STUD M-10 x 60 LG. WITH STD. 2 NUT, 2 PL. WASHER & 1 SP. WASHER	2 SET	-		
R4	11	ROUND BAR - 40 mm DIA. x 30 LG.	2	BSEN10025	0.2	0.4
	10	PLATE 10 THK. x 120 x 120 LG.	8	S275 JR	1.1	8.8
	9	ANGLE 120 x 120 x 8 x 630 LG.	2	BSEN10025	9.2	18.4
	8	PLATE 20 THK. x 250 x 530 LG.	2	S275 JR	20.8	41.6
	7	PLATE 16 THK. x 340 x 430 LG.	1	BSEN10025	18.3	18.3
	6	PLATE 16 THK. x 430 x 740 LG.	1	S275 JR	40.0	40.0
R3	5	ANGLE 120 x 120 x 8 x 520 LG.	2	BSEN10025	7.6	15.2
	4B	ANGLE 120 x 120 x 8 x 855 LG.	8	S275 JR	10.8	86.4
R3	4A	ANGLE 120 x 120 x 8 x 855 LG.	8	BSEN10025	10.8	86.4
	3	ANGLE 120 x 120 x 8 x 520 LG.	18	S275 JR	7.6	136.8
	2	UB 254 x 146 x 31 x 319 LG.	1	BSEN10025	9.9	9.9
R4	1	UB 254 x 146 x 31 x 7789 LG.	2	S355 JR	241.4	482.8
		TOTAL WEIGHT PER COLUMN = 945 K.G.				
		TOTAL WEIGHT (4 COLUMNS) = 3780 K.G.				

REV.	DESCRIPTION	DATE	DRN.	CHD.
R5	REVISED AS PER CLIENT'S COMMENTS	20.03.20	ANIL	AMB
R4	REVISED AS PER CLIENT'S COMMENTS	28.02.20	ANIL	AMB
R3	REVISED AS PER CLIENT'S COMMENTS	18.02.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	14.01.20	ANIL	AMB

PO REF NO :

CLIENT : ALDERLY MANUFACTURER : -

LOCATION : ADNOC - MANDOUS - MURBAN

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF COLUMN - C1
FOR 2 T. HOT CRANE (24.98 M. BAY LENGTH)

DESIGN	AMB	20 / 12 / 2019	PROJECT NO. -	SCALE 1 : 22	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-162-GG-03		REV. R5
APPROVED					

SURFACE FINISH SYMBOLS

Symbol	Roughness (CLA) Microns	
F4	0.4 TO 0.8	Machining after welding
F3	0.8 TO 1.6	Commercial finish produced by cutting, forging & flame cutting. Burrs removed.
F2	1.6 TO 4.0	
F1	4.0 TO 8.0	
F0	8.0 TO 25.0	

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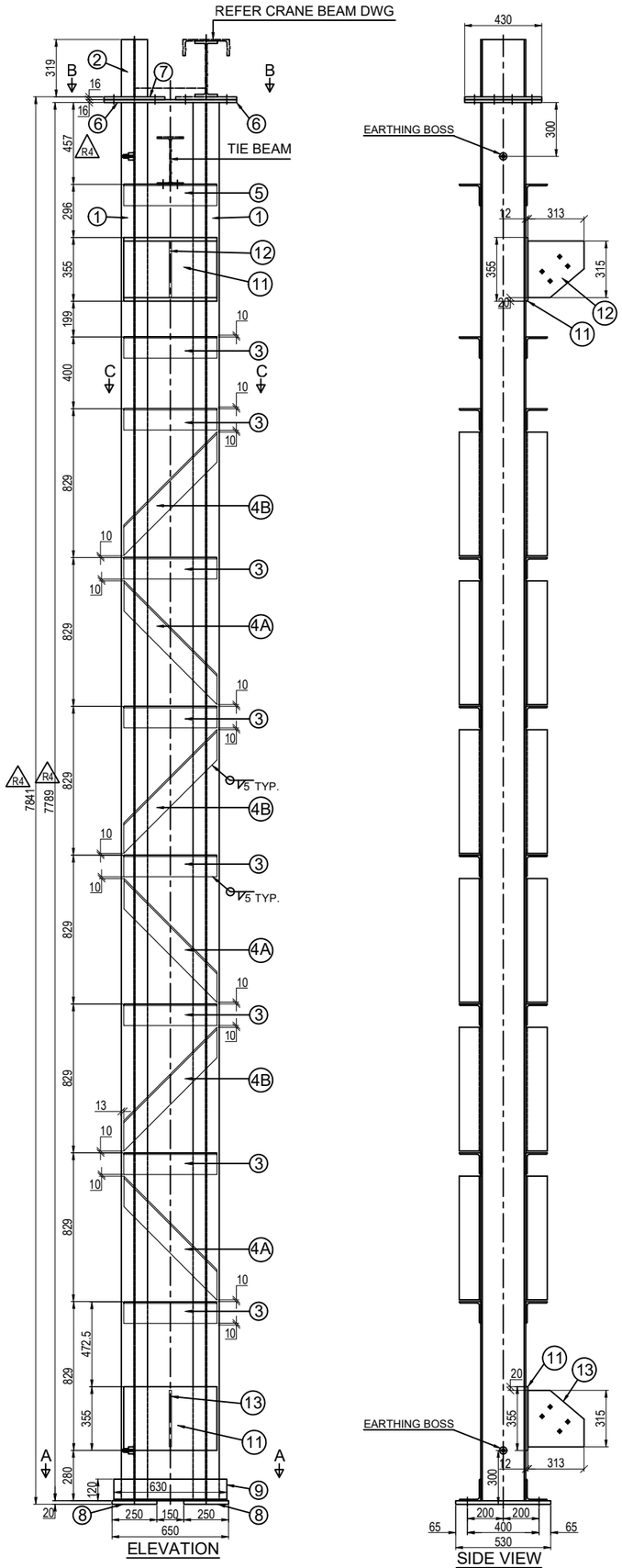
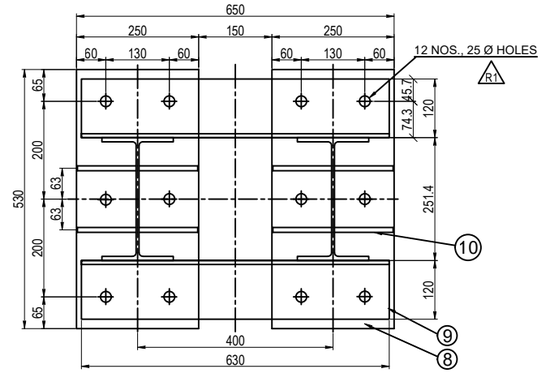
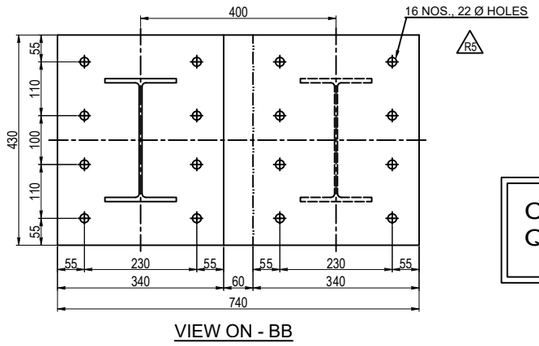
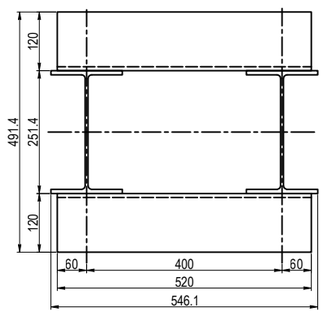
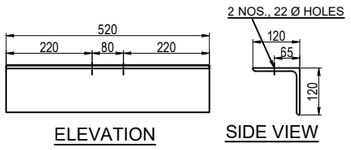




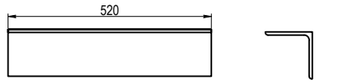




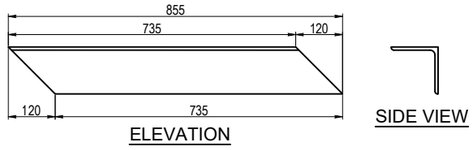
ITEM NO. 5

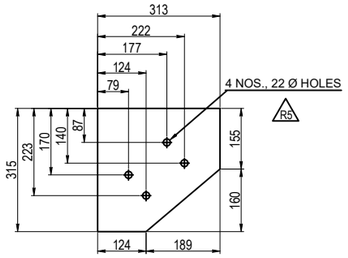


ITEM NO. 3

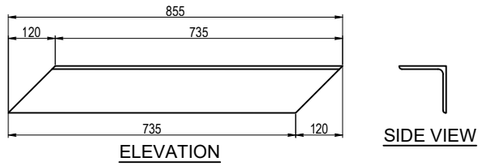


ITEM NO. 4A



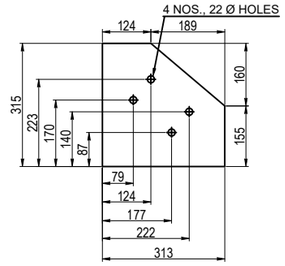


ITEM NO. 4B

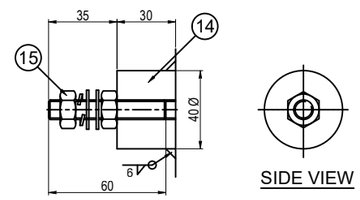


COLUMN - C2
QTY. REQD. = 4 NOS.

NOTES -
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR ONE NO. COLUMN .



EARTHING BOSS



SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
R4 15	STUD M-10 x 60 LG. WITH STD. 2 NUT, 2 PL. WASHER & 1 SP. WASHER	2 SET	-		
R4 14	ROUND BAR - 40 mm DIA. x 30 LG.	2	BSEN10025 S275 JR	0.2	0.4
13	PLATE 12 THK. x 313 x 315 LG.	1		7.8	7.8
12	PLATE 12 THK. x 313 x 315 LG.	1		7.8	7.8
11	PLATE 12 THK. x 355 x 520 LG.	2	BSEN10025 S275 JR	17.1	34.2
10	PLATE 10 THK. x 120 x 120 LG.	8	S275 JR	1.1	8.8
9	ANGLE 120 x 120 x 8 x 630 LG.	2	BSEN10025 S275 JR	9.2	18.4
8	PLATE 20 THK. x 250 x 530 LG.	2	S275 JR	20.8	41.6
7	PLATE 16 THK. x 340 x 430 LG.	1	BSEN10025 S275 JR	18.3	18.3
6	PLATE 16 THK. x 430 x 740 LG.	1	S275 JR	40.0	40.0
5	ANGLE 120 x 120 x 8 x 520 LG.	2	BSEN10025 S275 JR	7.6	15.2
R3 4B	ANGLE 120 x 120 x 8 x 855 LG.	6	S275 JR	10.8	64.8
R3 4A	ANGLE 120 x 120 x 8 x 855 LG.	6	BSEN10025 S275 JR	10.8	64.8
3	ANGLE 120 x 120 x 8 x 520 LG.	16	S275 JR	7.6	121.6
2	UB 254 x 146 x 31 x 319 LG.	1	BSEN10025 S275 JR	9.9	9.9
R1 1	UB 254 x 146 x 31 x 7789 LG.	2	S355 JR	241.4	482.8
				WEIGHT PER COLUMN = 937 K.G.	
				TOTAL WEIGHT (4 COLUMNS) = 3748 K.G.	

REV.	DESCRIPTION	DATE	DRN.	CHD.
R5	REVISED AS PER CLIENT'S COMMENTS	20.03.20	ANIL	AMB
R4	REVISED AS PER CLIENT'S COMMENTS	28.02.20	ANIL	AMB
R3	REVISED AS PER CLIENT'S COMMENTS	18.02.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	14.01.20	ANIL	AMB

PO REF NO :

CLIENT : ALDERLY MANUFACTURER : -

LOCATION : ADNOC - MANDOUS - MURBAN

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF COLUMN - C2
FOR 2 T. HOT CRANE (24.98 M. BAY LENGTH)

DESIGN	AMB	20 / 12 / 2019	PROJECT NO. -	SCALE 1 : 22	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-162-GG-04		REV. R5
APPROVED					

SURFACE FINISH SYMBOLS			
Symbol	Roughness (CLA) Microns		
F4	0.4	TO	0.8
F3	0.8	TO	1.6
F2	1.6	TO	4.0
F1	4.0	TO	8.0
B	8.0	TO	25.0

Machining after welding
Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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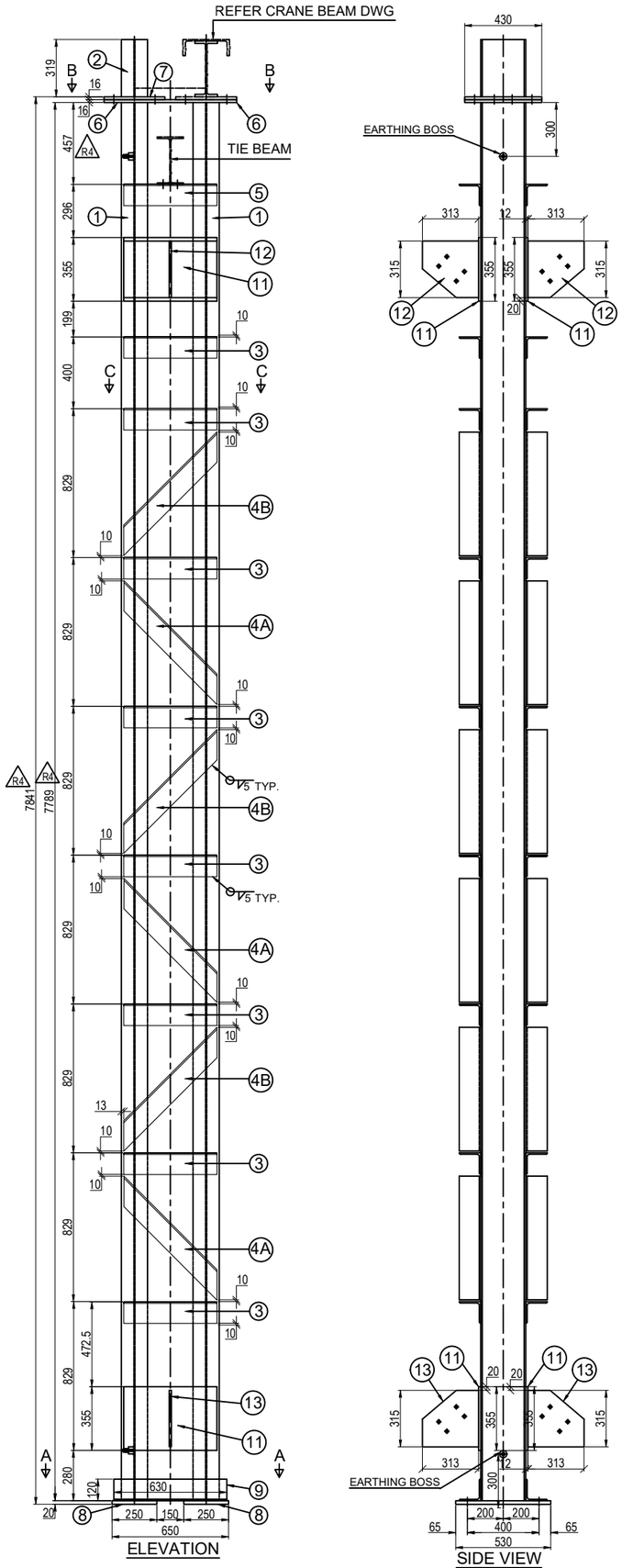
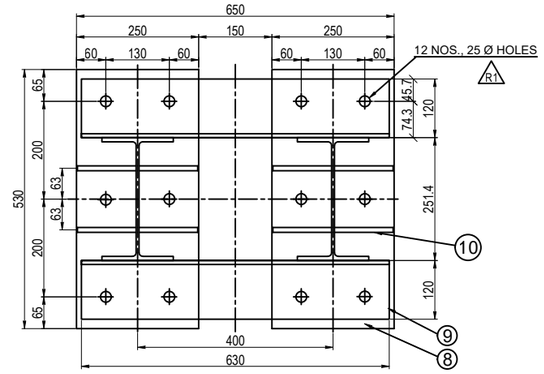
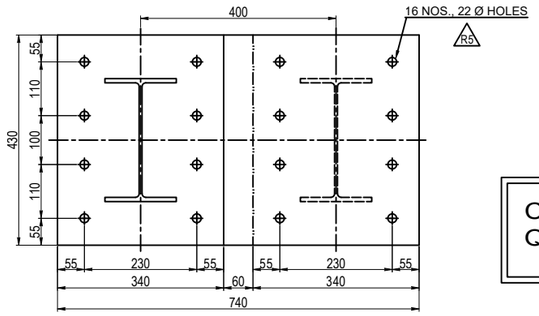
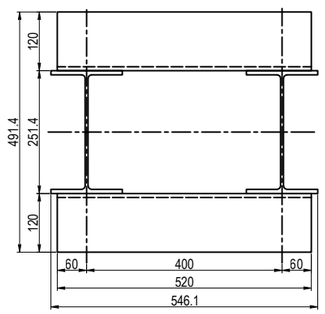
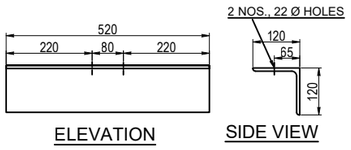








ITEM NO. 5



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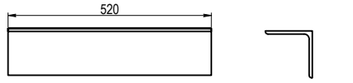
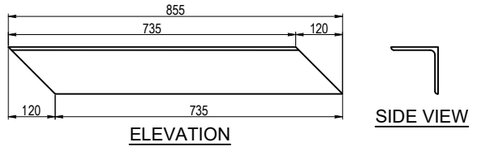
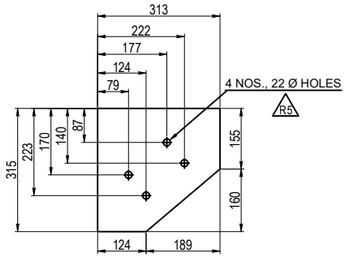
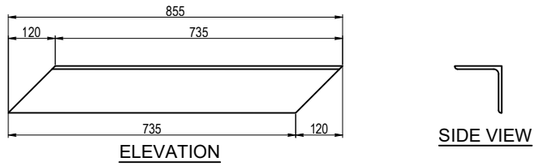


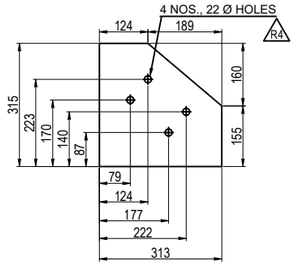
ITEM NO. 4A



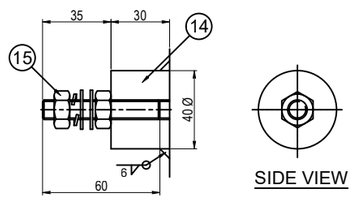


ITEM NO. 4B





EARTHING BOSS



COLUMN - C3
QTY. REQD. = 1 NO.

NOTES -
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR ONE NO. COLUMN .

SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
R3 15	STUD M-10 x 60 LG. WITH STD. 2 NUT, 2 PL. WASHER & 1 SP. WASHER	2 SET	-		
R3 14	ROUND BAR - 40 mm DIA. x 30 LG.	2	BSEN10025 S275 JR	0.2	0.4
13	PLATE 12 THK. x 313 x 315 LG.	2		7.8	15.6
12	PLATE 12 THK. x 313 x 315 LG.	2		7.8	15.6
11	PLATE 12 THK. x 355 x 520 LG.	4	BSEN10025	17.1	68.4
10	PLATE 10 THK. x 120 x 120 LG.	8	S275 JR	1.1	8.8
9	ANGLE 120 x 120 x 8 x 630 LG.	2	BSEN10025	9.2	18.4
8	PLATE 20 THK. x 250 x 530 LG.	2	S275 JR	20.8	41.6
7	PLATE 16 THK. x 340 x 430 LG.	1	BSEN10025	18.3	18.3
6	PLATE 16 THK. x 430 x 740 LG.	1	S275 JR	40.0	40.0
5	ANGLE 120 x 120 x 8 x 520 LG.	2	BSEN10025	7.6	15.2
R3 4B	ANGLE 120 x 120 x 8 x 855 LG.	6	S275 JR	10.8	64.8
R3 4A	ANGLE 120 x 120 x 8 x 855 LG.	6	BSEN10025	10.8	64.8
3	ANGLE 120 x 120 x 8 x 520 LG.	16	S275 JR	7.6	121.6
2	UB 254 x 146 x 31 x 319 LG.	1	BSEN10025	9.9	9.9
R1 1	UB 254 x 146 x 31 x 7789 LG.	2	S355 JR	241.4	482.8
	WEIGHT PER COLUMN = 987 K.G.				
	TOTAL WEIGHT (2 COLUMNS) = 1974 K.G.				

REV.	DESCRIPTION	DATE	DRN.	CHD.
R4	REVISED AS PER CLIENT'S COMMENTS	20.03.20	ANIL	AMB
R3	REVISED AS PER CLIENT'S COMMENTS	28.02.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	18.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB

PO REF NO :

CLIENT : ALDERLY MANUFACTURER : -

LOCATION : ADNOC - MANDOUS - MURBAN

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF COLUMN - C3
FOR 2 T. HOT CRANE (24.98 M. BAY LENGTH)

DESIGN	AMB	20 / 12 / 2019	PROJECT NO.	SCALE	PROJECTION
DRAWN	ANIL		-	1 : 22	
CHECKED	AMB		DRAWING NO.		REV.
APPROVED			IE-162-GG-05		R4

SURFACE FINISH SYMBOLS			
Symbol	Roughness (CLA) Microns		
F4	0.4	TO	0.8
F3	0.8	TO	1.6
F2	1.6	TO	4.0
F1	4.0	TO	8.0
B	8.0	TO	25.0

Machining after welding
Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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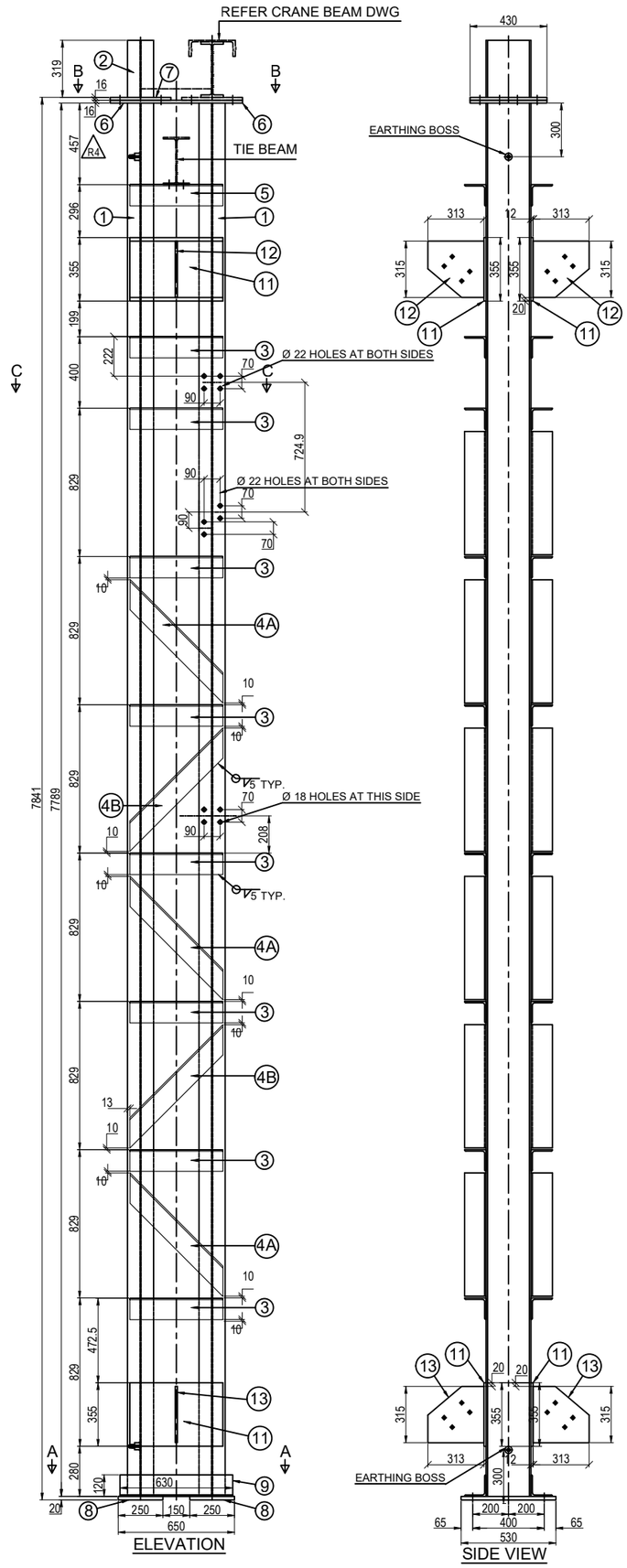
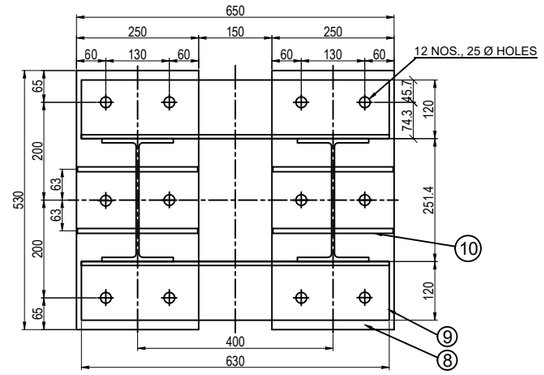
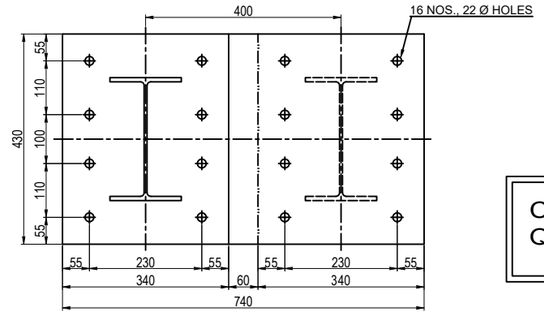
AND MUST NOT BE COPIED OR LENT WITHOUT THEIR PERMISSION IN WRITING

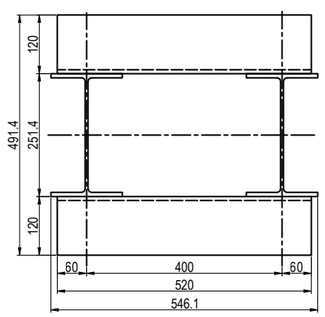




SECTION - AA

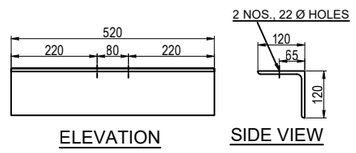


VIEW ON - BB

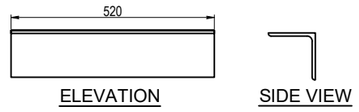


SECTION - CC

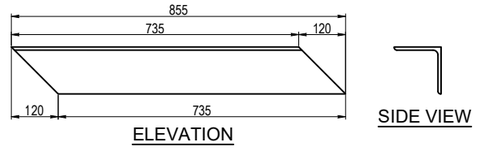
ITEM NO. 5

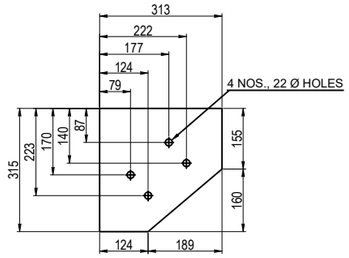


ITEM NO. 3



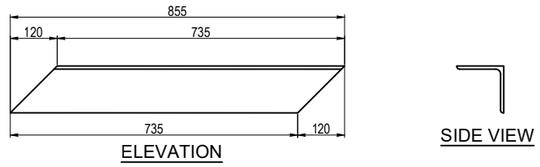
ITEM NO. 4A

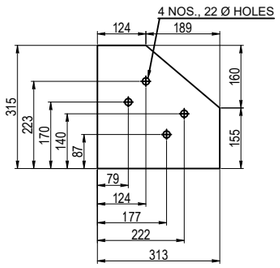




ITEM NO. 12

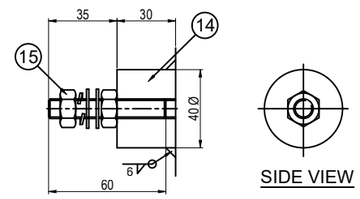
ITEM NO. 4B





ITEM NO. 13

EARTHING BOSS



COLUMN - C3A
QTY. REQD. = 1 NO.

NOTES -
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR ONE NO. COLUMN .

SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
15	STUD M-10 x 60 LG. WITH STD. 2 NUT, 2 PL. WASHER & 1 SP. WASHER	2 SET	-		
14	ROUND BAR - 40 mm DIA. x 30 LG.	2	BSEN10025 S275 JR	0.2	0.4
13	PLATE 12 THK. x 313 x 315 LG.	2		7.8	15.6
12	PLATE 12 THK. x 313 x 315 LG.	2		7.8	15.6
11	PLATE 12 THK. x 355 x 520 LG.	4	BSEN10025	17.1	68.4
10	PLATE 10 THK. x 120 x 120 LG.	8	S275 JR	1.1	8.8
9	ANGLE 120 x 120 x 8 x 630 LG.	2	BSEN10025	9.2	18.4
8	PLATE 20 THK. x 250 x 530 LG.	2	S275 JR	20.8	41.6
7	PLATE 16 THK. x 340 x 430 LG.	1	BSEN10025	18.3	18.3
6	PLATE 16 THK. x 430 x 740 LG.	1	S275 JR	40.0	40.0
5	ANGLE 120 x 120 x 8 x 520 LG.	2	BSEN10025	7.6	15.2
4B	ANGLE 120 x 120 x 8 x 855 LG.	4	S275 JR	10.8	64.8
4A	ANGLE 120 x 120 x 8 x 855 LG.	6	BSEN10025	10.8	64.8
3	ANGLE 120 x 120 x 8 x 520 LG.	16	S275 JR	7.6	121.6
2	UB 254 x 146 x 31 x 319 LG.	1	BSEN10025	9.9	9.9
1	UB 254 x 146 x 31 x 7789 LG.	2	S355 JR	241.4	482.8
				WEIGHT PER COLUMN =	987 K.G.
				TOTAL WEIGHT (2 COLUMNS) =	1974 K.G.

SURFACE FINISH SYMBOLS			
Symbol	Roughness (CLA) Microns		
F4	0.4	TO	0.8
F3	0.8	TO	1.6
F2	1.6	TO	4.0
F1	4.0	TO	8.0
	8.0	TO	25.0

Machining after welding

Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : -

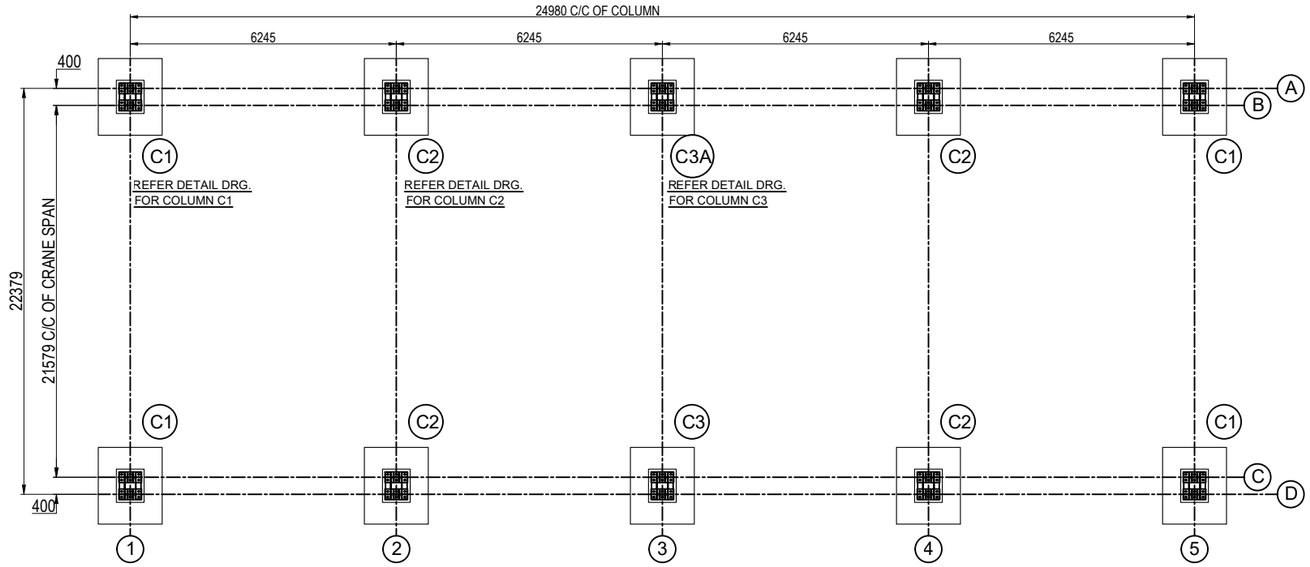
LOCATION : ADNOC - MANDOUS - MURBAN

EQUIPMENT TAG NOS :

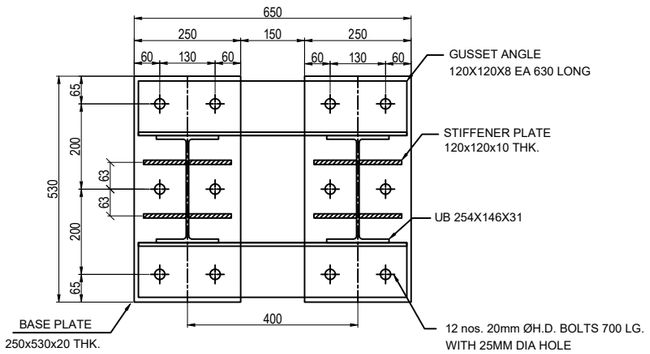
ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF COLUMN - C3A
FOR 2 T. HOT CRANE (24.98 M. BAY LENGTH)

DESIGN	AMB	20 / 12 / 2019	PROJECT NO. -	SCALE 1 : 22	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-162-GG-05		REV. R0
APPROVED					



PLAN AT FOOTING LVL



DETAIL OF BASE PLATE

NOTES -

1) FOR COLUMN C1 REFER DRG. NO. IE-162-GG-03 REV. R4
2) FOR COLUMN C2 REFER DRG. NO. IE-162-GG-04 REV. R4
3) FOR COLUMN C3 REFER DRG. NO. IE-162-GG-05 REV. R3

REV.	DESCRIPTION	DATE	DRN.	CHD.
R3	REVISED AS PER CLIENT'S COMMENTS	28.02.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	14.01.20	ANIL	AMB

PO REF NO :

CLIENT : ALDERLY MANUFACTURER : -

LOCATION : ADNOC - MANDOUS - MURBAN

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF FOUNDATION FOR 2 T. HOT CRANE
(FOR 24.98 M. BAY LENGTH)

DESIGN	AMB	20 / 12 / 2019	PROJECT NO.	SCALE	PROJECTION
DRAWN	ANIL		-	1 : 100	
CHECKED	AMB		DRAWING NO.		REV.
APPROVED			IE-162-GG-01		R3

SURFACE FINISH SYMBOLS

Symbol	Roughness (CLA) Microns
F4	0.4 TO 0.8
F3	0.8 TO 1.6
F2	1.6 TO 4.0
F1	4.0 TO 8.0
B	8.0 TO 25.0
	Machining after welding
	Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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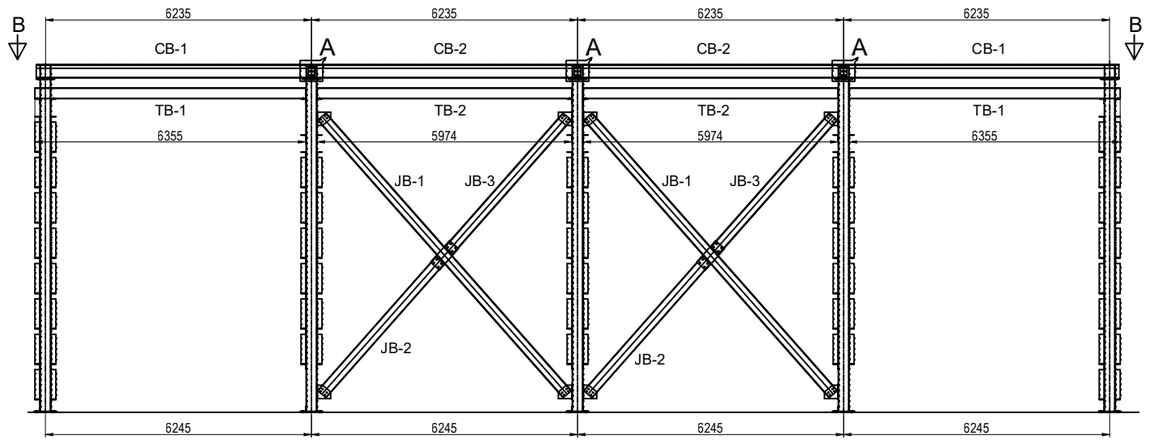
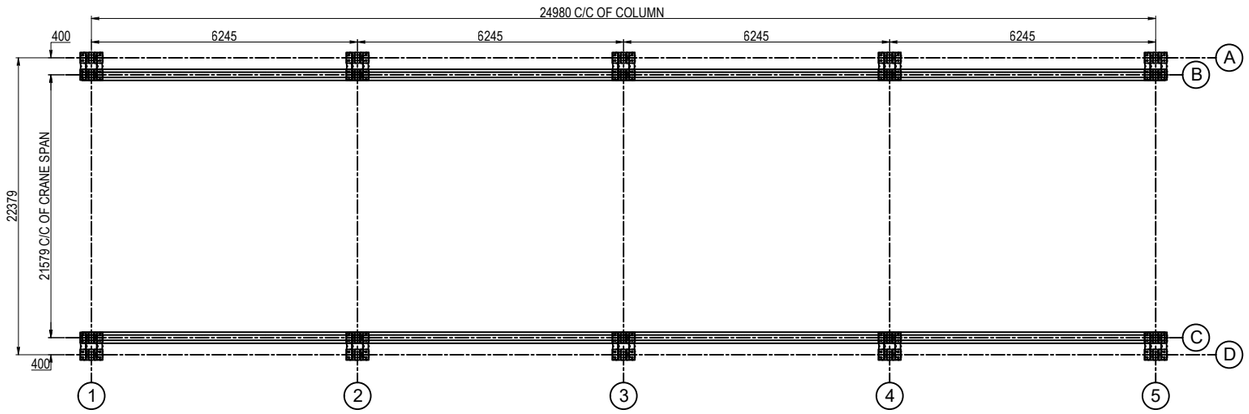
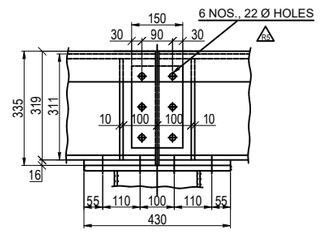


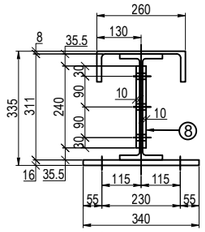
ELEVATION



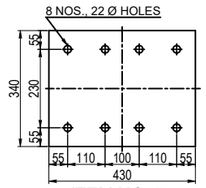
VIEW ON - BB



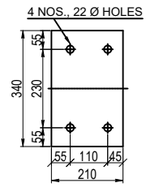
DETAIL - A



SIDE VIEW



ITEM NO. 5



ITEM NO. 6

NOTES -

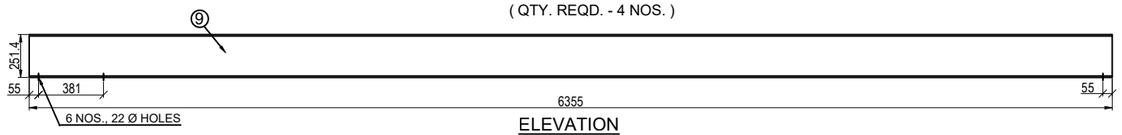
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR BOTH SIDES GANTRY GIRDER & TIE BEAM.

TOTAL WEIGHT = 8227 K.G.

SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
13	PLATE 12 THK. x 280 x 672 LG.	4	BSEN10025 S275 JR	16.8	67.2
12	PFC 260 x 90 x 4195 LG.	8	BSEN10025 S275 JR	146.0	1168.0
11	PFC 260 x 90 x 8702 LG.	4	BSEN10025 S275 JR	302.0	1208.0
10	UB 254 x 146 x 31 x 5974 LG.	4	BSEN10025 S355 JR	185.2	740.8
9	UB 254 x 146 x 31 x 6355 LG.	4	BSEN10025 S355 JR	197.0	788.0
8	PLATE 10 THK. x 150 x 240 LG.	12	BSEN10025 S275 JR	2.8	33.6
7	PLATE 10 THK. x 165 x 311 LG.	40	BSEN10025 S275 JR	4.0	160.0
6	PLATE 12 THK. x 210 x 340 LG.	12	BSEN10025 S275 JR	6.7	80.4
5	PLATE 16 THK. x 340 x 430 LG.	4	BSEN10025 S275 JR	18.3	73.2
4	PFC 260x 90 x 35 x 6235 LG.	4	BSEN10025 S275 JR	217.0	868.0
3	UB 305 x 127 x 48 x 6235 LG.	4	BSEN10025 S355 JR	299.9	1199.6
2	PFC 260x 90 x 35 x 6455 LG.	4	BSEN10025 S275 JR	224.6	898.4
1	UB 305 x 127 x 48 x 6455 LG.	4	BSEN10025 S355 JR	310.4	1241.6

DETAILS OF TIE BEAM = TB-1

(QTY. REQD. - 4 NOS.)

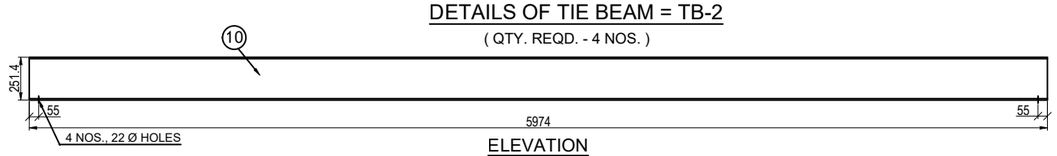


ELEVATION

SIDE VIEW

DETAILS OF TIE BEAM = TB-2

(QTY. REQD. - 4 NOS.)

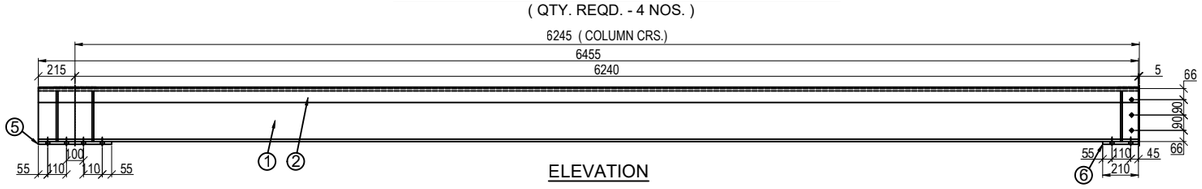


ELEVATION

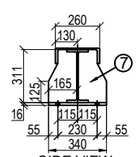
SIDE VIEW

DETAILS OF GANTRY GIRDER = CB-1

(QTY. REQD. - 4 NOS.)



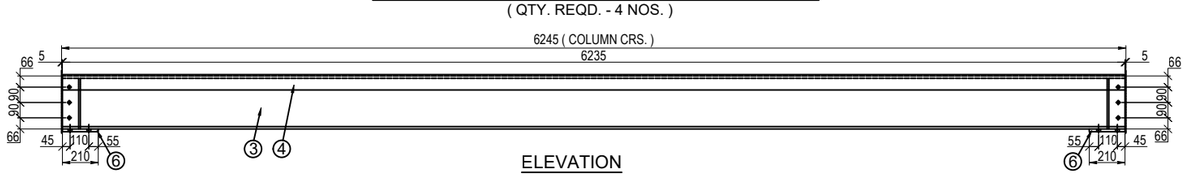
ELEVATION



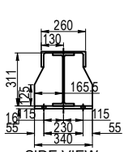
SIDE VIEW

DETAILS OF GANTRY GIRDER = CB-2

(QTY. REQD. - 4 NOS.)



ELEVATION



SIDE VIEW

REV.	DESCRIPTION	DATE	DRN.	CHD.
R5	REVISED AS PER CLIENT'S COMMENTS	20.03.20	ANIL	AMB
R4	REVISED AS PER CLIENT'S COMMENTS	18.02.20	ANIL	AMB
R3	REVISED AS PER CLIENT'S COMMENTS	18.02.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	14.01.20	ANIL	AMB

SURFACE FINISH SYMBOLS

Symbol	Roughness (CLA) Microns
F3	0.4 TO 0.8
F2	0.8 TO 1.6
F1	1.6 TO 4.0
F3	4.0 TO 8.0
F2	8.0 TO 25.0
F1	Machining after welding
	Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : -

LOCATION : ADNOC - MANDOUS -MURBAN

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

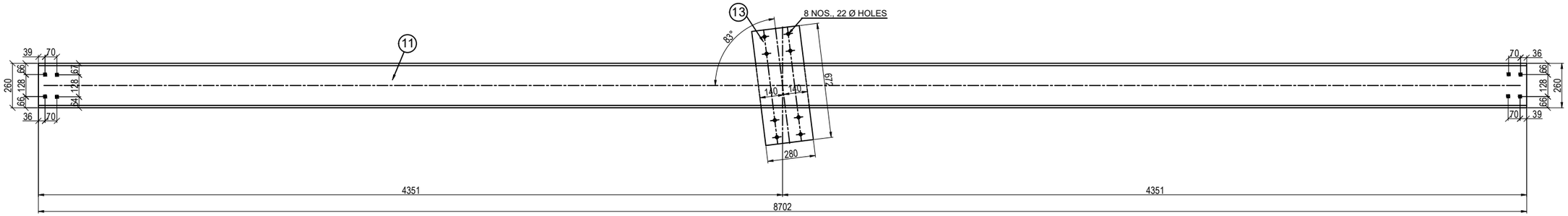
Title : DETAILS OF GANTRY GIRDER & TIE BEAM (SHEET 1 OF 2)
FOR 2 T. HOT CRANE (FOR 24.98 M. BAY LENGTH)

DESIGN	AMB	20 / 12 / 2019	PROJECT NO. -	SCALE 1 : 100	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-162-GG-02		REV. R5
APPROVED					

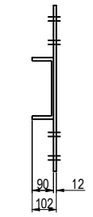
A2

DETAILS OF GANTRY GIRDER = JB-1

(QTY. REQD. - 4 NOS.)



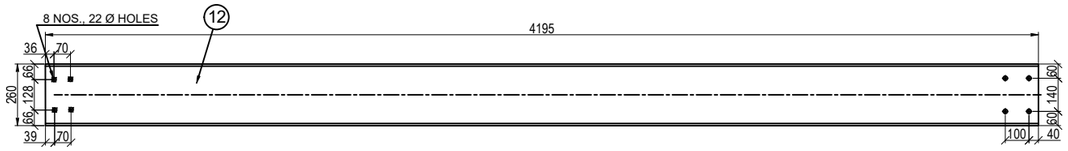
ELEVATION



SIDE VIEW

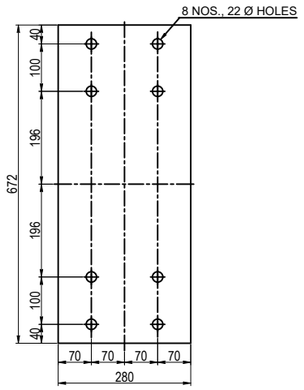
DETAILS OF GANTRY GIRDER = JB-2

(QTY. REQD. - 4 NOS.)



ELEVATION

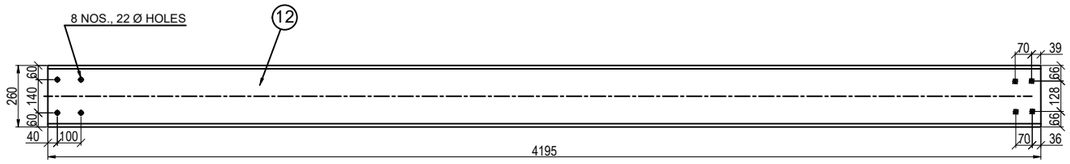
SIDE VIEW



DETAILS OF ITEM NO. 13

DETAILS OF GANTRY GIRDER = JB-3

(QTY. REQD. - 4 NOS.)



ELEVATION

SIDE VIEW

SURFACE FINISH SYMBOLS			
Symbol	Roughness (CLA) Microns		
F4	0.4 TO 0.8	Machining after welding	
F3	0.8 TO 1.6	Commercial finish produced by casting, forging & flame cutting. Burrs removed.	
F2	1.6 TO 4.0		
F1	4.0 TO 8.0		
	8.0 TO 25.0		

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : -

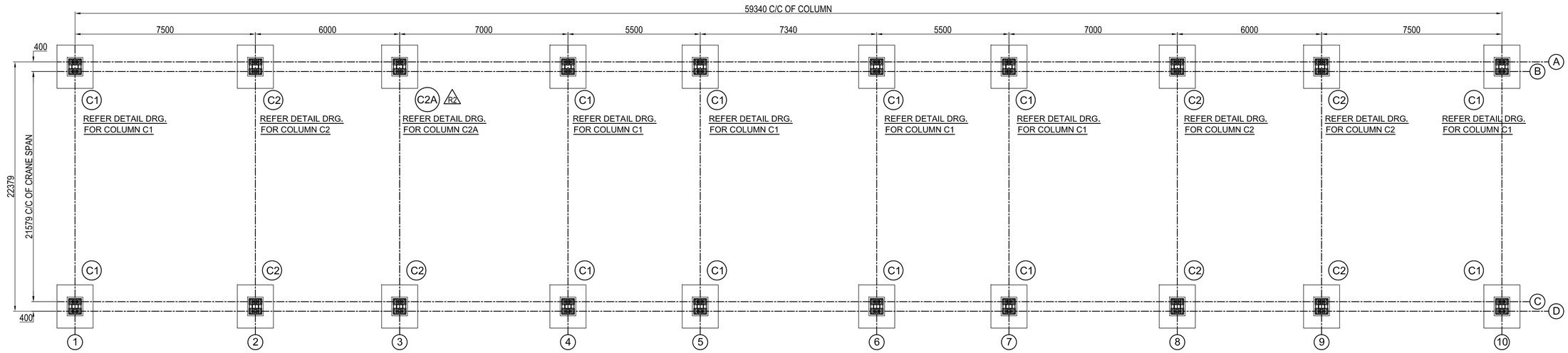
LOCATION : ADNOC - MANDOUS -MURBAN

EQUIPMENT TAG NOS :

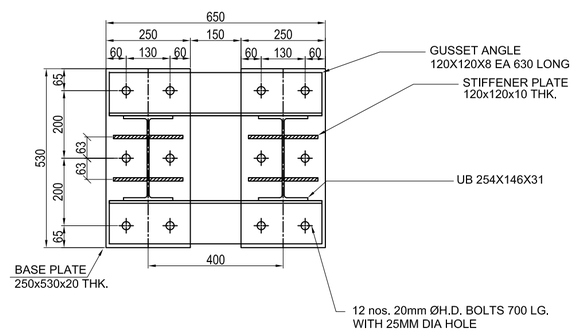
ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF GANTRY GIRDER & TIE BEAM (SHEET 2 OF 2)
FOR 2 T. HOT CRANE (FOR 24.98 M. BAY LENGTH)

DESIGN	AMB	20 / 12 / 2019	PROJECT NO.	SCALE	PROJECTION
DRAWN	ANIL		-	1 : 18	
CHECKED	AMB		DRAWING NO.		REV.
APPROVED			IE-162-GG-02		R5



PLAN AT FOOTING LVL



DETAIL OF BASE PLT DETAIL

NOTES -

1) FOR COLUMN C1 REFER DRG. NO. IE-160-GG-03 REV. R3
2) FOR COLUMN C2 REFER DRG. NO. IE-160-GG-04 REV. R3
3) FOR COLUMN C2A REFER DRG. NO. IE-160-GG-05 REV. R0

REV.	DESCRIPTION	DATE	DRN.	CHD.
R2	REVISED AS PER CLIENT'S COMMENTS	10.03.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB

SURFACE FINISH SYMBOLS

Symbol	Roughness (CLA) Microns
F1	0.4 TO 0.8
F2	0.8 TO 1.6
F3	1.6 TO 4.0
F4	4.0 TO 8.0
F5	8.0 TO 25.0

Machining after welding

Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - ZAKUM

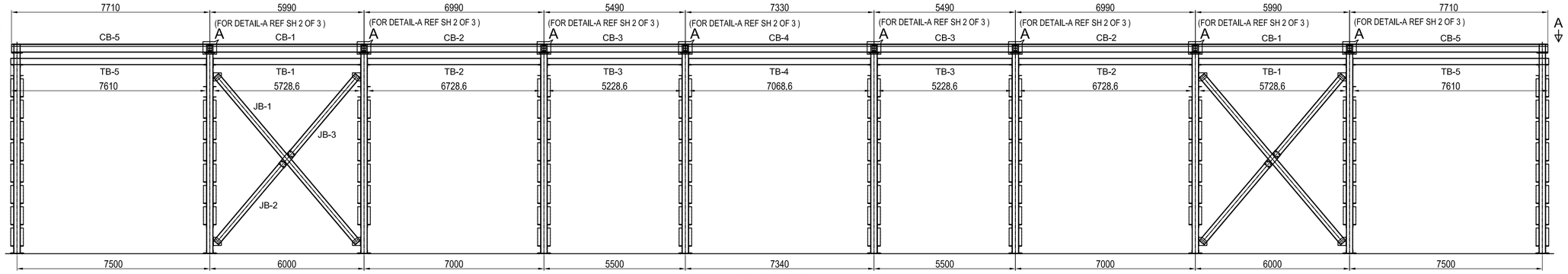
EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

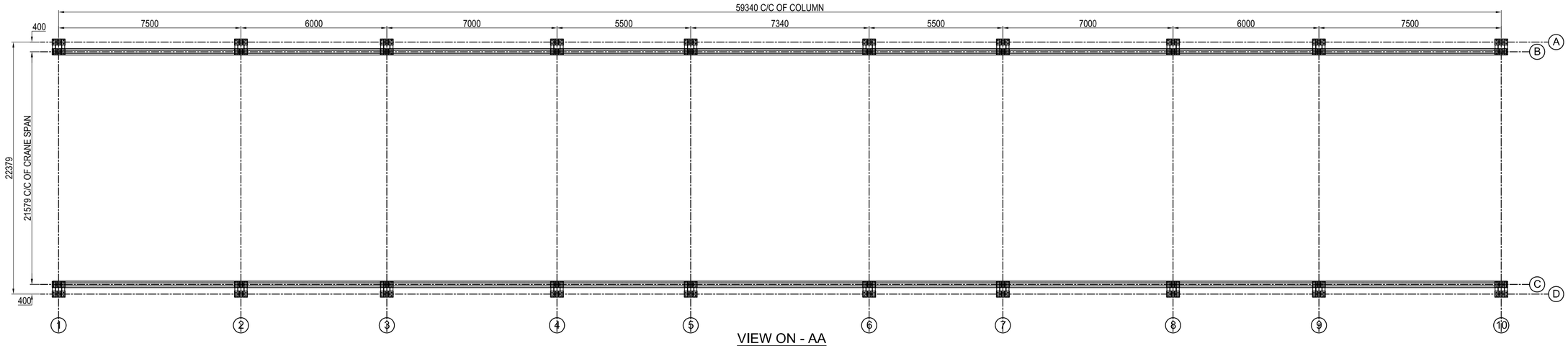
Title : DETAILS OF FOUNDATION FOR 2 T. HOT CRANE

DESIGN	AMB	22 / 11 / 2019	PROJECT NO.	SCALE	PROJECTION
DRAWN	ANIL		-	1 : 125	
CHECKED	AMB		DRAWING NO.		REV.
APPROVED			IE-160-GG-01		R2

A2



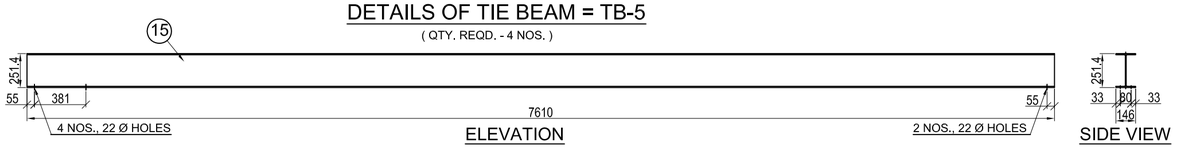
ELEVATION



VIEW ON - AA

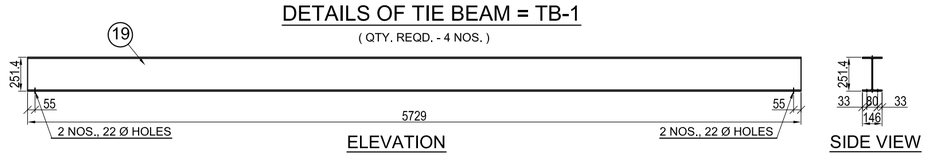
DETAILS OF TIE BEAM = TB-5

(QTY. REQD. - 4 NOS.)



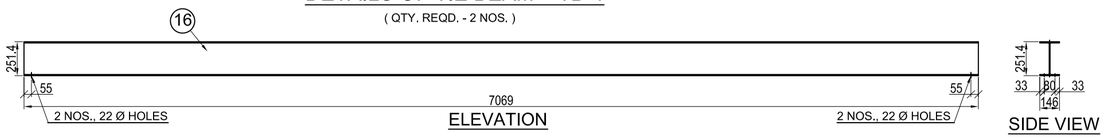
DETAILS OF TIE BEAM = TB-1

(QTY. REQD. - 4 NOS.)



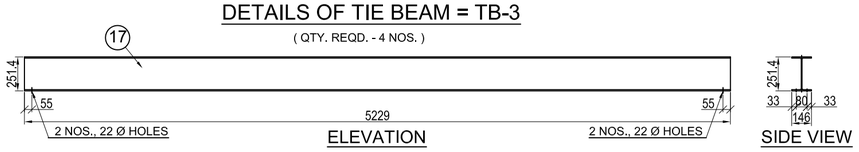
DETAILS OF TIE BEAM = TB-4

(QTY. REQD. - 2 NOS.)



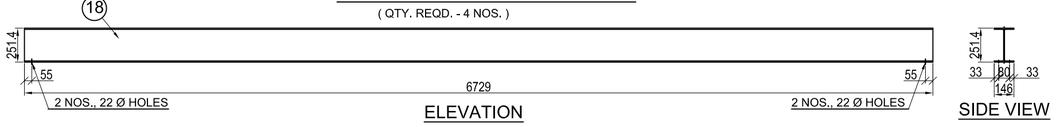
DETAILS OF TIE BEAM = TB-3

(QTY. REQD. - 4 NOS.)



DETAILS OF TIE BEAM = TB-2

(QTY. REQD. - 4 NOS.)



REV.	DESCRIPTION	DATE	DRN.	CHD.
R2	REVISED AS PER CLIENT'S COMMENTS	10.03.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB

SURFACE FINISH SYMBOLS

Symbol	Roughness (CLA) Microns
F1	0.4 TO 0.8
F2	0.8 TO 1.6
F3	1.6 TO 4.0
F4	4.0 TO 8.0
F5	8.0 TO 25.0

Machining after welding

Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - ZAKUM

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF GANTRY GIRDER & TIE BEAM
FOR 2 T. HOT CRANE (SHEET 1 OF 3)

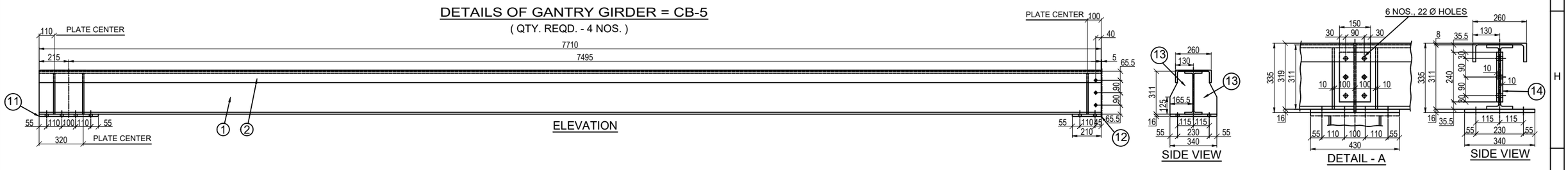
DESIGN	AMB	24 / 11 / 2019	PROJECT NO.	SCALE	PROJECTION
DRAWN	ANIL		-	1 : 125	
CHECKED	AMB		DRAWING NO.		REV.
APPROVED			IE-160-GG-02		R2

A2

(FOR LOCATION OF DETAIL-A REF SH 1 OF 3)

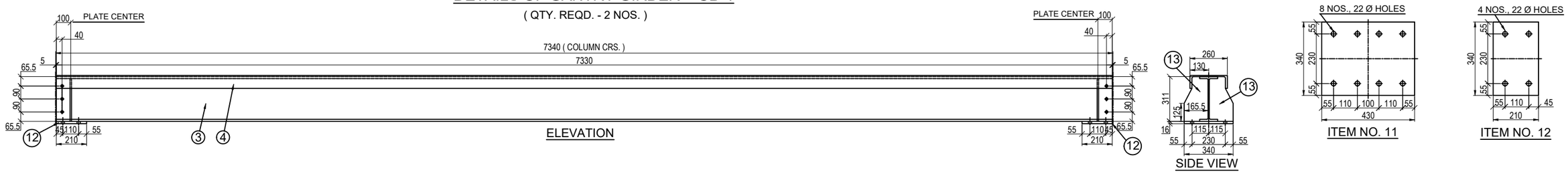
DETAILS OF GANTRY GIRDER = CB-5

(QTY. REQD. - 4 NOS.)



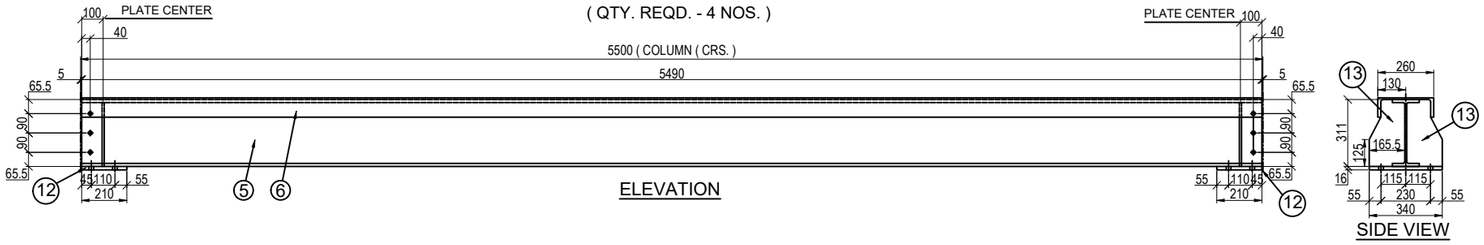
DETAILS OF GANTRY GIRDER = CB-4

(QTY. REQD. - 2 NOS.)



DETAILS OF GANTRY GIRDER = CB-3

(QTY. REQD. - 4 NOS.)



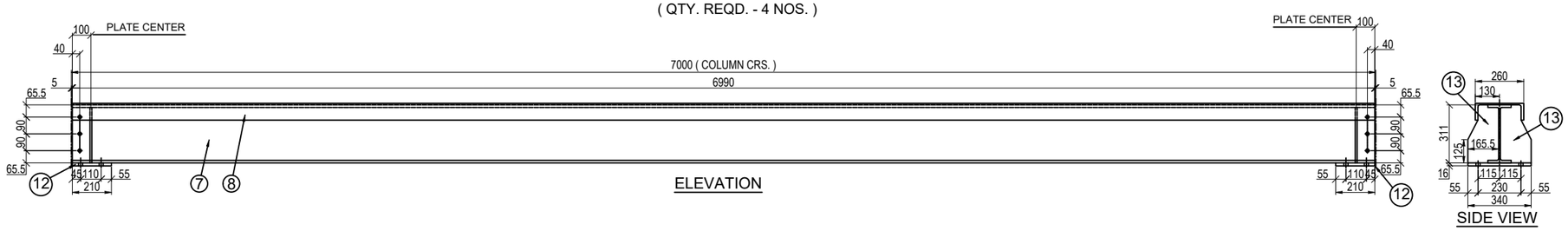
NOTES -

1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR BOTH SIDES GANTRY GIRDER & TIE BEAM.

TOTAL WEIGHT = 16640 K.G.

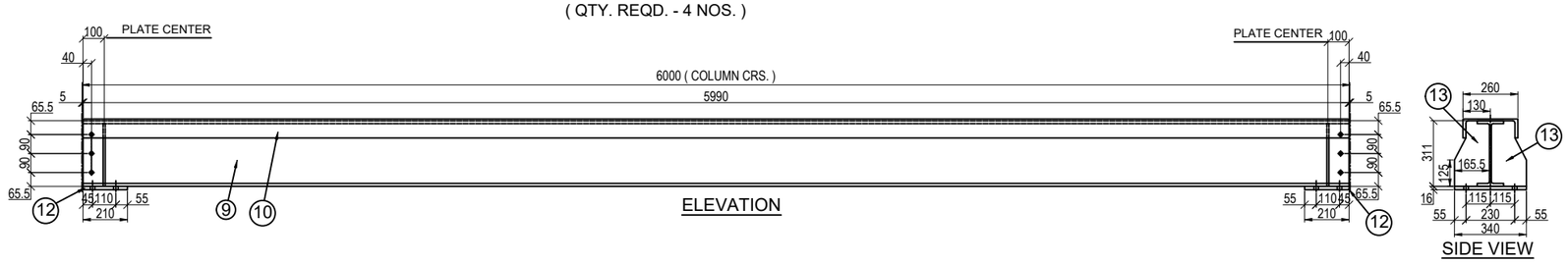
DETAILS OF GANTRY GIRDER = CB-2

(QTY. REQD. - 4 NOS.)



DETAILS OF GANTRY GIRDER = CB-1

(QTY. REQD. - 4 NOS.)



SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
22	PLATE 12 THK. x 280 x 685 LG.	4	BSEN10025 S275 JR	18.0	72.0
21	PFC 260x 90 x 35 x 4101 LG.	8	BSEN10025 S275 JR	142.7	1141.6
20	PFC 260 x 90 x 35 x 8526 LG.	4	BSEN10025 S275 JR	296.7	1186.8
19	UB 254 x 146 x 31 x 5729 LG.	4	BSEN10025 S355 JR	177.5	710.0
18	UB 254 x 146 x 31 x 6729 LG.	4	BSEN10025 S355 JR	208.5	834.0
17	UB 254 x 146 x 31 x 5229 LG.	4	BSEN10025 S355 JR	162.0	648.0
16	UB 254 x 146 x 31 x 7069 LG.	2	BSEN10025 S355 JR	219.1	438.2
15	UB 254 x 146 x 31 x 7610 LG.	4	BSEN10025 S355 JR	235.9	943.6
14	PLATE 10 THK. x 150 x 240 LG.	32	BSEN10025 S275 JR	2.8	89.6
13	PLATE 10 THK. x 165 x 311 LG.	80	BSEN10025 S275 JR	4.0	320.0
12	PLATE 16 THK. x 210 x 340 LG.	32	BSEN10025 S275 JR	9.0	288.0
11	PLATE 16 THK. x 340 x 430 LG.	4	BSEN10025 S275 JR	18.3	73.2
10	PFC 260 x 90 x 35 x 5990 LG.	4	BSEN10025 S275 JR	208.4	833.6
9	UB 305 x 127 x 48 x 5990 LG.	4	BSEN10025 S355 JR	288.1	1152.4
8	PFC 260x 90 x 35 x 6990 LG.	4	BSEN10025 S275 JR	243.2	972.8
7	UB 305 x 127 x 48 x 6990 LG.	4	BSEN10025 S355 JR	336.2	1344.8
6	PFC 260x 90 x 35 x 5490 LG.	4	BSEN10025 S275 JR	191.0	764.0
5	UB 305 x 127 x 48 x 5490 LG.	4	BSEN10025 S355 JR	264.0	1056.0
4	PFC 260x 90 x 35 x 7330 LG.	2	BSEN10025 S275 JR	255.0	510.0
3	UB 305 x 127 x 48 x 7330 LG.	2	BSEN10025 S355 JR	352.5	705.0
2	PFC 260x 90 x 35 x 7710 LG.	4	BSEN10025 S275 JR	268.3	1073.2
1	UB 305 x 127 x 48 x 7710 LG.	4	BSEN10025 S355 JR	370.8	1483.2

SURFACE FINISH SYMBOLS				
Symbol	Roughness (CLA) Microns			
F1	0.4+	TO	0.8	
F2	0.8	TO	1.6	
F3	1.6	TO	4.0	
F4	4.0	TO	8.0	
F5	8.0	TO	25.0	Machining after welding
F6				Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - ZAKUM

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

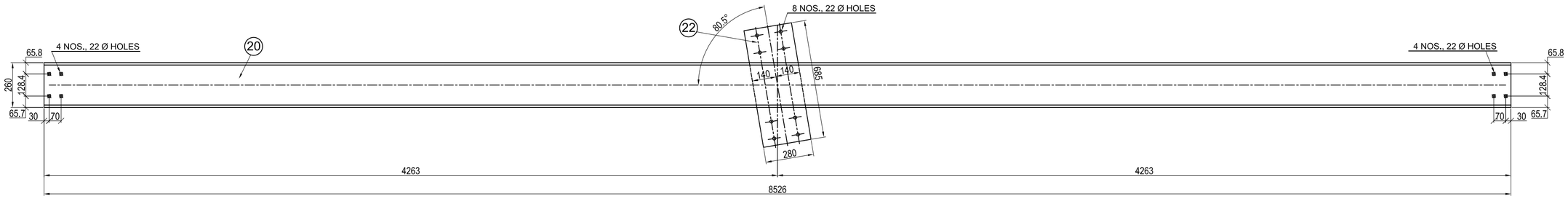
Title : DETAILS OF GANTRY GIRDER & TIE BEAM
FOR 2 T. HOT CRANE (SHEET 2 OF 3)

DESIGN	AMB	22 / 11 / 2019	PROJECT NO. -	SCALE 1 : 20	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-160-GG-02		REV. R2
APPROVED					

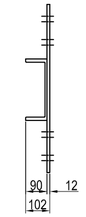
A2

DETAILS OF GANTRY GIRDER = JB-1

(QTY. REQD. - 4 NOS.)



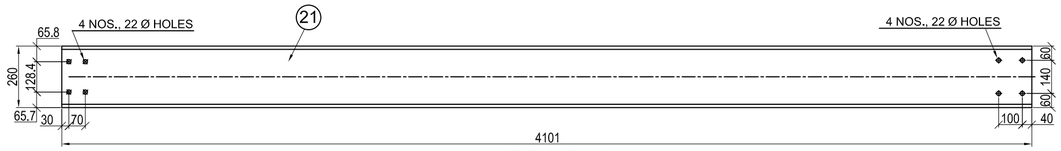
ELEVATION



SIDE VIEW

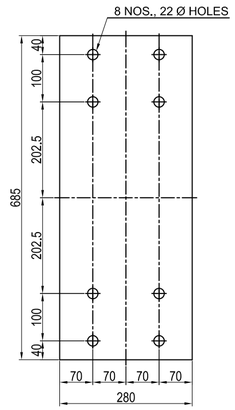
DETAILS OF GANTRY GIRDER = JB-2

(QTY. REQD. - 4 NOS.)



ELEVATION

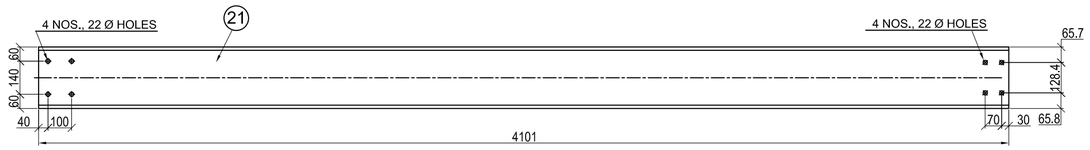
SIDE VIEW



DETAILS OF ITEM NO. 22

DETAILS OF GANTRY GIRDER = JB-3

(QTY. REQD. - 4 NOS.)



ELEVATION

SIDE VIEW

SURFACE FINISH SYMBOLS							
Symbol	Roughness (CLA) Microns						
F3	0.4	TO	0.8	F3	4.0	TO	8.0
F3	0.8	TO	1.6	F2	8.0	TO	25.0
F2	1.6	TO	4.0		Machining after welding		
					Commercial finish produced by casting, forging & flame cutting. Burrs removed.		

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - ZAKUM

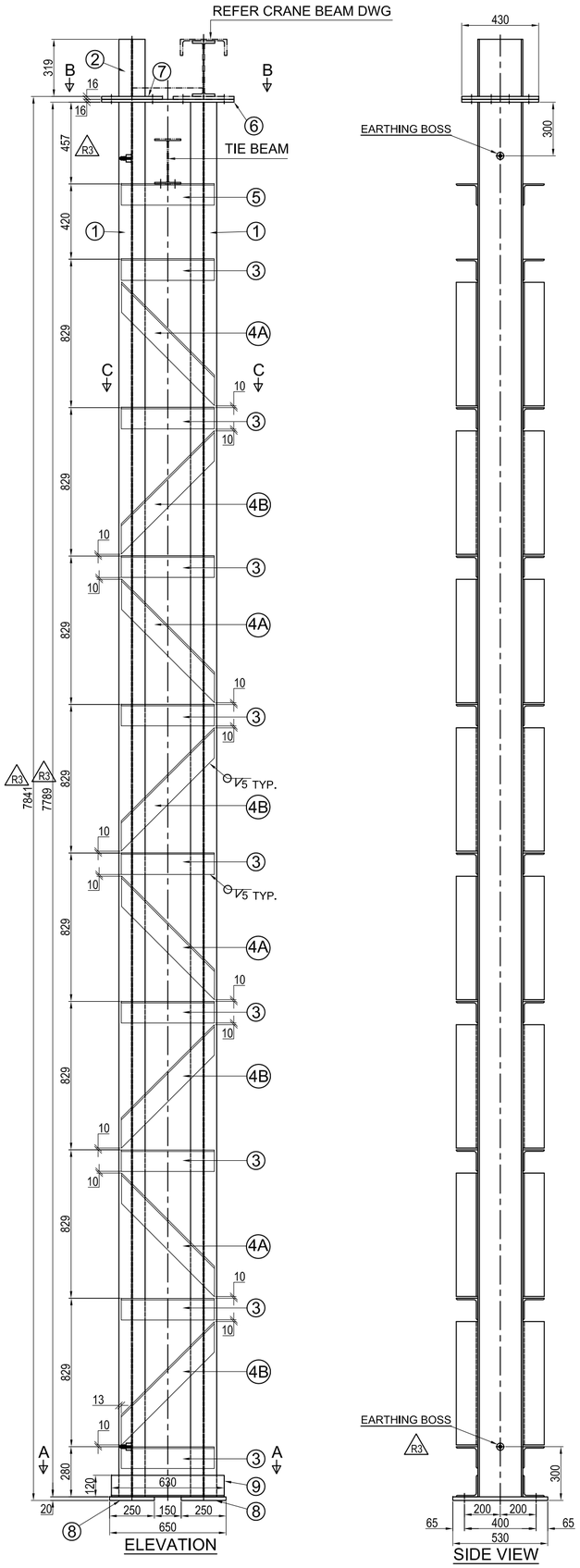
EQUIPMENT TAG NOS :

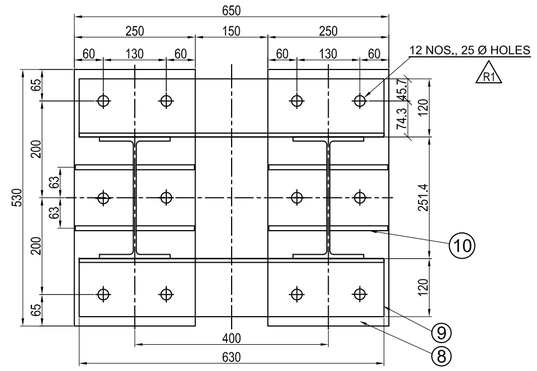
ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

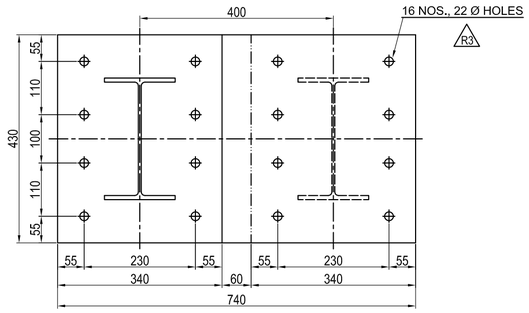
Title : DETAILS OF GANTRY GIRDER & TIE BEAM
FOR 2 T. HOT CRANE (SHEET 3 OF 3)

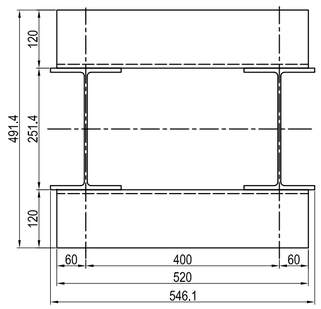
DESIGN	AMB		PROJECT NO.	SCALE	PROJECTION
DRAWN	ANIL		-	1 : 18	
CHECKED	AMB		DRAWING NO.		REV.
APPROVED			IE-160-GG-02		R2

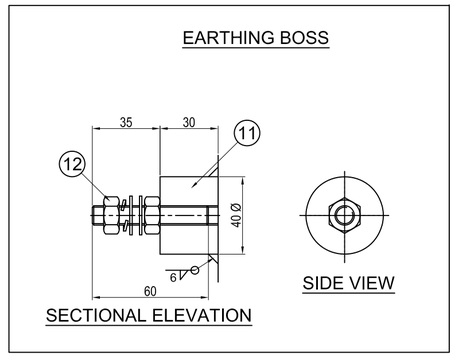
A2

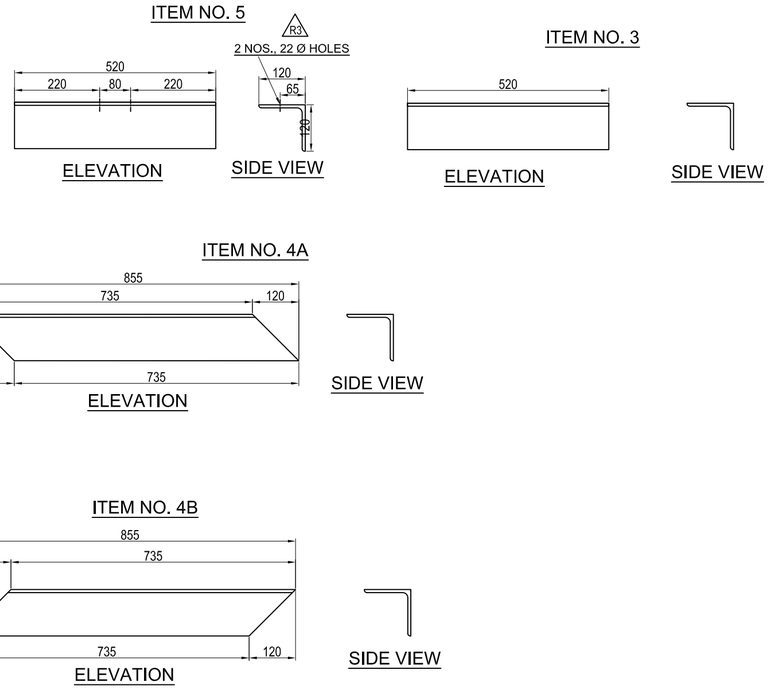












NOTES -
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR ONE NO. COLUMN .

COLUMN - C1
QTY. REQD. = 12 NOS.

SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
12	STUD M-10 x 60 LG. WITH STD. 2 NUT, 2 PL. WASHER & 1 SP. WASHER	2 SET	-		
11	ROUND BAR - 40 mm DIA. x 30 LG.	2	BSEN10025	0.2	0.4
10	PLATE 10 THK. x 120 x 120 LG.	8	S275 JR	1.1	8.8
9	ANGLE 120 x 120 x 8 x 630 LG.	2	BSEN10025	9.2	18.4
8	PLATE 20 THK. x 250 x 530 LG.	2	S275 JR	20.8	41.6
7	PLATE 16 THK. x 340 x 430 LG.	1	BSEN10025	18.3	18.3
6	PLATE 16 THK. x 430 x 740 LG.	1	S275 JR	40.0	40.0
5	ANGLE 120 x 120 x 8 x 520 LG.	2	BSEN10025	7.6	15.2
4B	ANGLE 120 x 120 x 8 x 855 LG.	8	S275 JR	10.8	86.4
4A	ANGLE 120 x 120 x 8 x 855 LG.	8	BSEN10025	10.8	86.4
3	ANGLE 120 x 120 x 8 x 520 LG.	18	S275 JR	7.6	136.8
2	UB 254 x 146 x 31 x 319 LG.	1	BSEN10025	9.9	9.9
1	UB 254 x 146 x 31 x 7789 LG.	2	S355 JR	241.4	482.8
	TOTAL WEIGHT PER COLUMN = 945 K.G.				
	TOTAL WEIGHT (12 COLUMNS) = 11340 K.G.				

REV.	DESCRIPTION	DATE	DRN.	CHD.
R3	REVISED AS PER CLIENT'S COMMENTS	10.03.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	19.12.19	ANIL	AMB

PO REF NO :
CLIENT : ALDERLY
MANUFACTURER : ICON ENGINEERING LLP
LOCATION : ADNOC - MANDOUS - ZAKUM
EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF COLUMN - C1
FOR 2 T. HOT CRANE (59.34 M. BAY LENGTH)

DESIGN	AMB	22 / 11 / 2019	PROJECT NO. -	SCALE 1 : 22	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-160-GG-03		REV. R3
APPROVED					

SURFACE FINISH SYMBOLS			
Symbol	Roughness (CLA) Microns		
F1	0.4 TO 0.8	Machining after welding	
F2	0.8 TO 1.6	Commercial finish produced by casting, forging & flame cutting. Burrs removed.	
F3	1.6 TO 4.0		
F4	4.0 TO 8.0		
F5	8.0 TO 25.0		

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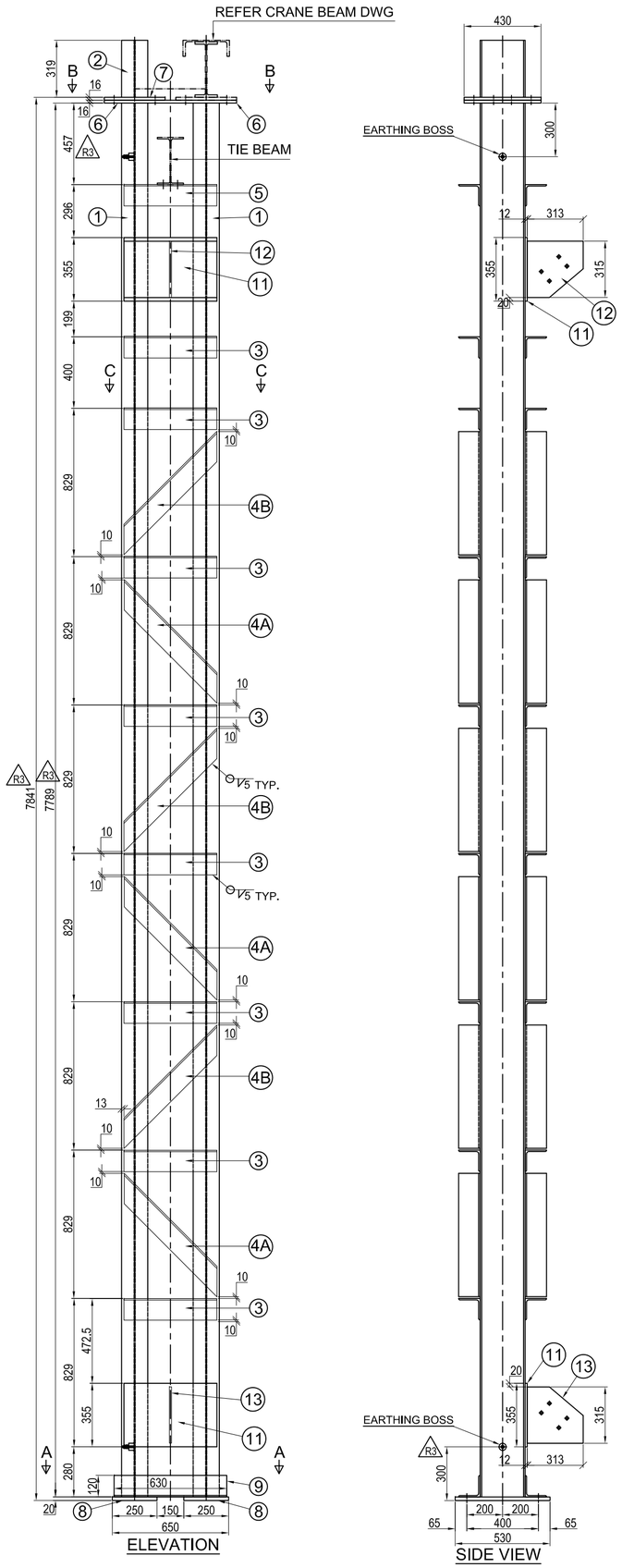
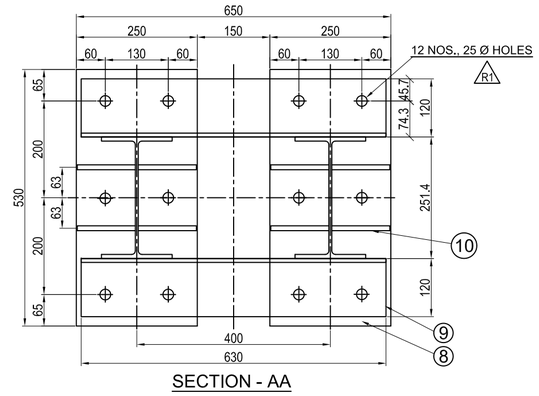
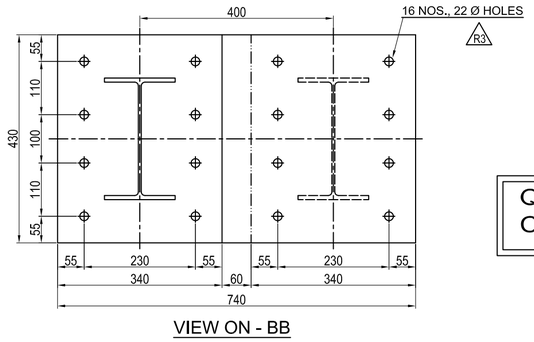
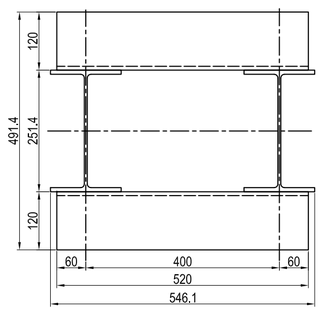
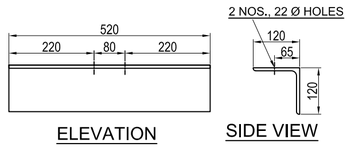




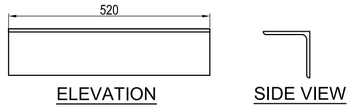




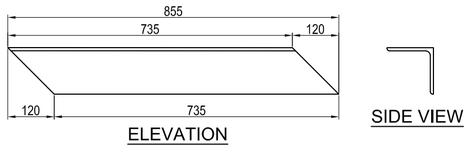
ITEM NO. 5

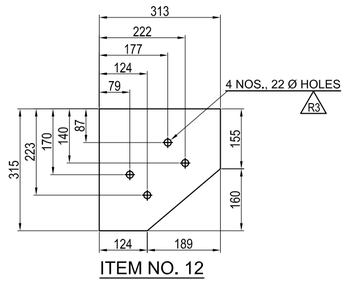


ITEM NO. 3

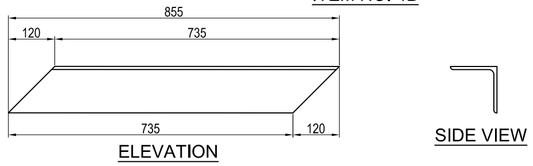


ITEM NO. 4A



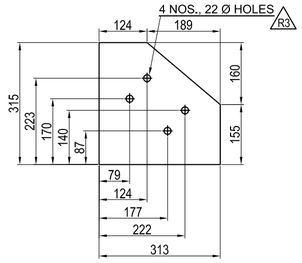


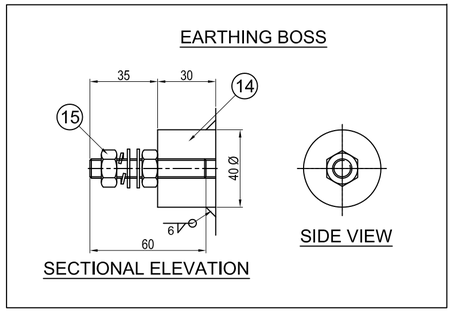
ITEM NO. 4B



QTY. REQD.
COLUMN - C2 = 7 nos.

NOTES -
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR ONE NO. COLUMN .





SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
R3 15	STUD M-10 x 60 LG. WITH STD. 2 NUT, 2 PL. WASHER & 1 SP. WASHER	2 SET	-		
R3 14	ROUND BAR - 40 mm DIA. x 30 LG.	2	BSEN10025 S275 JR	0.2	0.4
13	PLATE 12 THK. x 313 x 315 LG.	1		7.8	7.8
12	PLATE 12 THK. x 313 x 315 LG.	1		7.8	7.8
11	PLATE 12 THK. x 355 x 520 LG.	2	BSEN10025	17.1	34.2
10	PLATE 10 THK. x 120 x 120 LG.	8	S275 JR	1.1	4.4
9	ANGLE 120 x 120 x 8 x 630 LG.	2	BSEN10025	9.2	18.4
8	PLATE 20 THK. x 250 x 530 LG.	2	S275 JR	20.8	41.6
7	PLATE 16 THK. x 340 x 430 LG.	1	BSEN10025	18.3	18.3
6	PLATE 16 THK. x 430 x 740 LG.	1	S275 JR	40.0	40.0
5	ANGLE 120 x 120 x 8 x 520 LG.	2	BSEN10025	7.6	15.2
R3 4B	ANGLE 120 x 120 x 8 x 855 LG.	6	S275 JR	10.8	64.8
R3 4A	ANGLE 120 x 120 x 8 x 855 LG.	6	BSEN10025	10.8	64.8
3	ANGLE 120 x 120 x 8 x 520 LG.	16	S275 JR	7.6	121.6
2	UB 254 x 146 x 31 x 319 LG.	1	BSEN10025	9.9	9.9
R3 1	UB 254 x 146 x 31 x 7789 LG.	2	S355 JR	241.4	482.8
	WEIGHT PER COLUMN = 932 K.G.				
	TOTAL WEIGHT (7 COLUMNS) = 6524 K.G.				

REV.	DESCRIPTION	DATE	DRN.	CHD.
R3	REVISED AS PER CLIENT'S COMMENTS	10.03.20	ANIL	AMB
R2	REVISED AS PER CLIENT'S COMMENTS	05.02.20	ANIL	AMB
R1	REVISED AS PER CLIENT'S COMMENTS	19.12.19	ANIL	AMB

SURFACE FINISH SYMBOLS			
Symbol	Roughness (CLA) Microns		
F4	0.4	TO	0.8
F3	0.8	TO	1.6
F2	1.6	TO	4.0
F1	4.0	TO	8.0
B	8.0	TO	25.0

✓ Machining after welding

✓ Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - ZAKUM

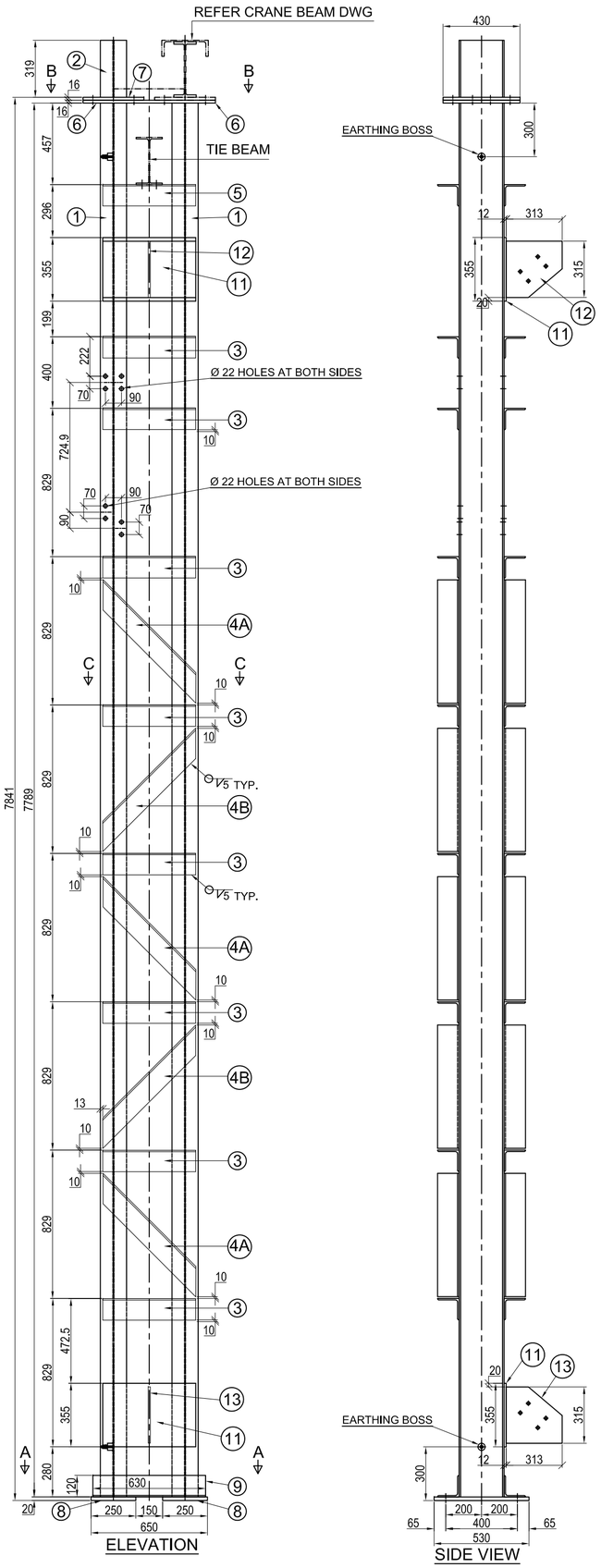
EQUIPMENT TAG NOS :

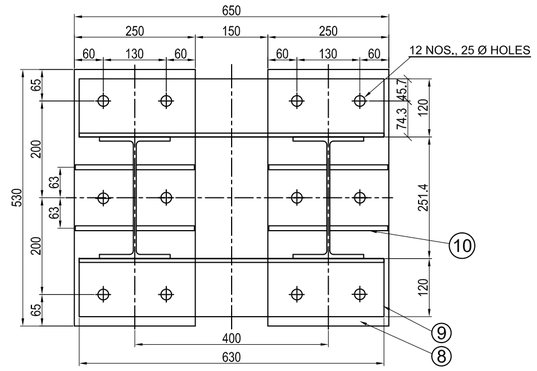
ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF COLUMN - C2
FOR 2 T. HOT CRANE (59.34 M. BAY LENGTH)

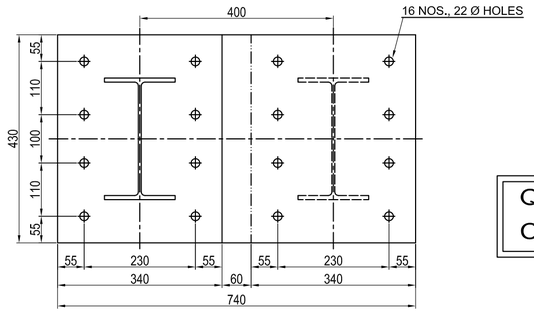
DESIGN	AMB	22 / 11 / 2019	PROJECT NO. -	SCALE 1 : 22	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-160-GG-04		REV. R3
APPROVED					

A2

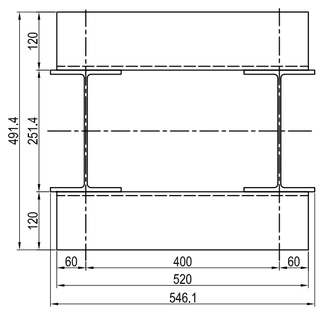




SECTION - AA

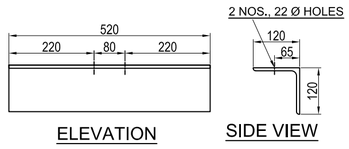


VIEW ON - BB

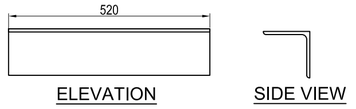


SECTION - CC

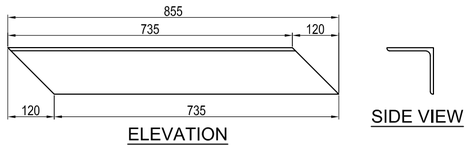
ITEM NO. 5

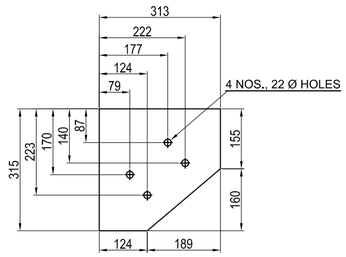


ITEM NO. 3



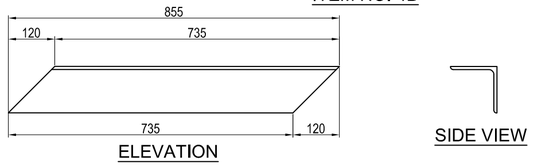
ITEM NO. 4A





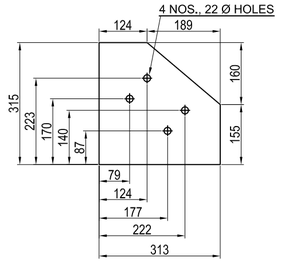
ITEM NO. 12

ITEM NO. 4B



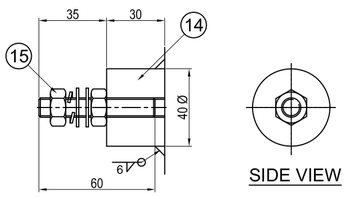
QTY. REQD.
COLUMN - C2A = 1 no.

NOTES -
1) ALL DIMENSIONS ARE IN mm.
2) ALL WELDS ARE 5 mm FILLET.
3) QTY. GIVEN IN PART LIST IS FOR ONE NO. COLUMN .



ITEM NO. 13

EARTHING BOSS



SR. NO.	DESCRIPTION	QTY.	MATL.	UNIT WT. IN K.G.	TOTAL WT. IN K.G.
15	STUD M-10 x 60 LG. WITH STD. 2 NUT, 2 PL. WASHER & 1 SP. WASHER	2 SET	-		
14	ROUND BAR - 40 mm DIA. x 30 LG.	2	BSEN10025 S275 JR	0.2	0.4
13	PLATE 12 THK. x 313 x 315 LG.	1		7.8	7.8
12	PLATE 12 THK. x 313 x 315 LG.	1		7.8	7.8
11	PLATE 12 THK. x 355 x 520 LG.	2	BSEN10025	17.1	34.2
10	PLATE 10 THK. x 120 x 120 LG.	8	S275 JR	1.1	4.4
9	ANGLE 120 x 120 x 8 x 630 LG.	2	BSEN10025	9.2	18.4
8	PLATE 20 THK. x 250 x 530 LG.	2	S275 JR	20.8	41.6
7	PLATE 16 THK. x 340 x 430 LG.	1	BSEN10025	18.3	18.3
6	PLATE 16 THK. x 430 x 740 LG.	1	S275 JR	40.0	40.0
5	ANGLE 120 x 120 x 8 x 520 LG.	2	BSEN10025	7.6	15.2
4B	ANGLE 120 x 120 x 8 x 855 LG.	4	S275 JR	10.8	43.2
4A	ANGLE 120 x 120 x 8 x 855 LG.	6	BSEN10025	10.8	64.8
3	ANGLE 120 x 120 x 8 x 520 LG.	16	S275 JR	7.6	121.6
2	UB 254 x 146 x 31 x 319 LG.	1	BSEN10025	9.9	9.9
1	UB 254 x 146 x 31 x 7789 LG.	2	S355 JR	241.4	482.8
	WEIGHT PER COLUMN = 911 K.G.				
	TOTAL WEIGHT (1 COLUMNS) = 911 K.G.				

REV.	DESCRIPTION	DATE	DRN.	CHD.
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

PO REF NO :

CLIENT : ALDERLY MANUFACTURER : ICON ENGINEERING LLP

LOCATION : ADNOC - MANDOUS - ZAKUM

EQUIPMENT TAG NOS :

ICON ENGINEERING LLP
C2,PART1,27 ACRE KOTHARI COMPOUND
THANE-W

Title : DETAILS OF COLUMN - C2A
FOR 2 T. HOT CRANE (59.34 M. BAY LENGTH)

DESIGN	AMB	22 / 11 / 2019	PROJECT NO. -	SCALE 1 : 22	PROJECTION
DRAWN	ANIL				
CHECKED	AMB		DRAWING NO. IE-160-GG-05		REV. R0
APPROVED					

SURFACE FINISH SYMBOLS			
Symbol	Roughness (CLA) Microns		
F0	0.4	TO	0.8
F1	0.8	TO	1.6
F2	1.6	TO	4.0
F3	4.0	TO	8.0
F4	8.0	TO	25.0

Machining after welding

Commercial finish produced by casting, forging & flame cutting. Burrs removed.

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A2