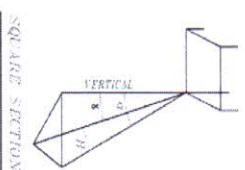


BASIC BODY + LEG EXT.

1/COS(α)	1.003385	BASIC BODY + LEG EXT.							
tang(α)	0.082353								
1/COS(γ)	1.006759								
tang(γ)	0.116465								
1/COS(β)	1.003363								
tang(β)	0.082075								
	LEG2m	B.B	3369.63	LEG3m	LEG4m	LEG5m	LEG6m	LEG7m	LEG8m
		D	4765.38						
	LEG3m	B.B	3594.85	3534.34	LEG4m	LEG5m	LEG6m	LEG7m	LEG8m
		D	4983.21	4998.31					
	LEG4m	B.B	4064.31	3753.29	3699.04	LEG5m	LEG6m	LEG7m	LEG8m
		D	5383.59	5211.61	5231.23				
	LEG5m	B.B	4705.47	4208.33	3912.25	3863.75	LEG6m	LEG7m	LEG8m
		D	5929.66	5600.52	5440.39	5464.16			
	LEG6m	B.B	5458.15	4833.22	4353.81	4071.67	4028.45	LEG7m	LEG8m
		D	6585.27	6131.71	5818.68	5669.52	5697.09		
	LEG7m	B.B	6282.40	5571.09	4963.14	4500.62	4231.49	4193.16	LEG8m
		D	7321.06	6771.79	6335.88	6037.95	5898.94	5930.02	
	LEG8m	B.B	7153.51	6382.89	5686.56	5095.07	4648.62	4391.67	4357.86
		D	8115.24	7492.89	6961.10	6541.98	6258.21	6128.62	6162.95



NOTE :

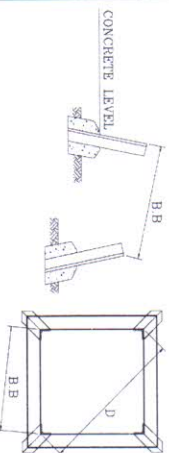
VERTICAL DISTANCE FROM TOP OF STUB TO
CONCRETE LEVEL = 500mm

TYPE: 63K v. TOWER YSM03 (DOUBLE CIRCUIT)
خط ارتفاع - متر به سانتیمتر
SUB ASSY :
SETTING DIMENSION
BASIC BODY + LEG EXT

Drawn: M.G
Checked: M.G
Control: M.GH
Approved: M.GH

سازنده: یاسان
SHEET NO.
RMR-63-03-YSM03-B-01-02

B.B : BACK TO BACK AT THE TOP OF STUB
D : DIAGONAL

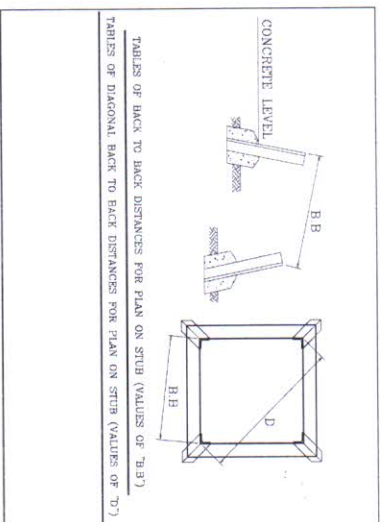


TABLES OF BACK TO BACK DISTANCES FOR PLAN ON STUB (VALUES OF 'B.B')
TABLES OF DIAGONAL BACK TO BACK DISTANCES FOR PLAN ON STUB (VALUES OF 'D')

BASIC BODY + BODY EXT.5m + LEG EXT.

1/COS(α)	1.003385						
tang(α)	0.082353						
1/COS(γ)	1.006759						
tang(γ)	0.116465						
1/COS(β)	1.003363						
tang(β)	0.082075						
		LEG2m	LEG3m	LEG4m	LEG5m	LEG6m	LEG7m
LEG2m	B.B	4193.16					
	D	5930.02					
LEG3m	B.B	4391.67	4357.86				
	D	6128.62	6162.95				
LEG4m	B.B	4797.72	4552.18	4522.57			
	D	6479.35	6358.54	6395.88			
LEG5m	B.B	5364.38	4947.80	4712.97	4687.28		
	D	6959.24	6701.29	6588.68	6628.81		
LEG6m	B.B	6046.67	5501.49	5098.79	4874.03	4851.98	
	D	7543.69	7170.12	6923.95	6819.00	6861.74	
LEG7m	B.B	6809.91	6170.82	5640.07	5250.61	5035.32	5016.69
	D	8210.40	7742.17	7382.33	7147.27	7049.49	7094.67
LEG8m	B.B	7629.86	6922.35	6296.84	5780.03	5403.17	5196.83
	D	8940.98	8396.35	7942.51	7595.74	7371.18	7280.14
							5181.39
							7327.60

B.B : BACK TO BACK AT THE TOP OF STUB
D : DIAGONAL



TABLES OF BACK TO BACK DISTANCES FOR PLAN ON STUB (VALUES OF "B.B")
TABLES OF DIAGONAL BACK TO BACK DISTANCES FOR PLAN ON STUB (VALUES OF "D")

NOTE :

VERTICAL DISTANCE FROM TOP OF STUB TO
CONCRETE LEVEL = 500mm

TYPE 63k.v TOWER YSM03 (DOUBLE CIRCUIT)

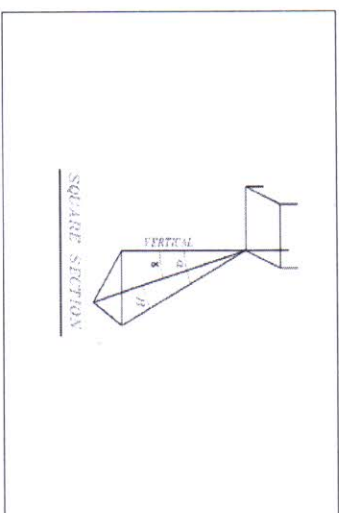
جدول مسافت - متر به متر

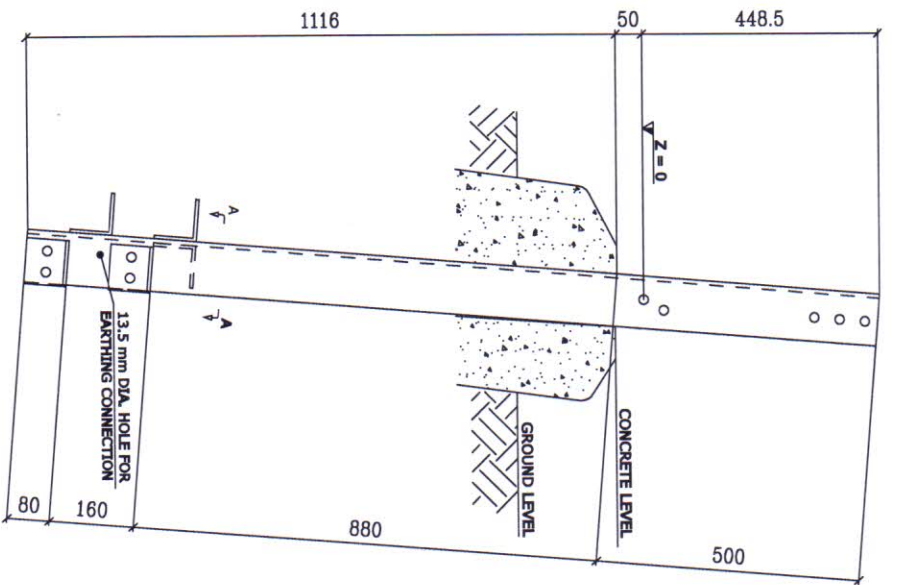
Sub Assy :

SETTING DIMENSION
BASIC BODY + BODY EXT.5m
+LEG EXT

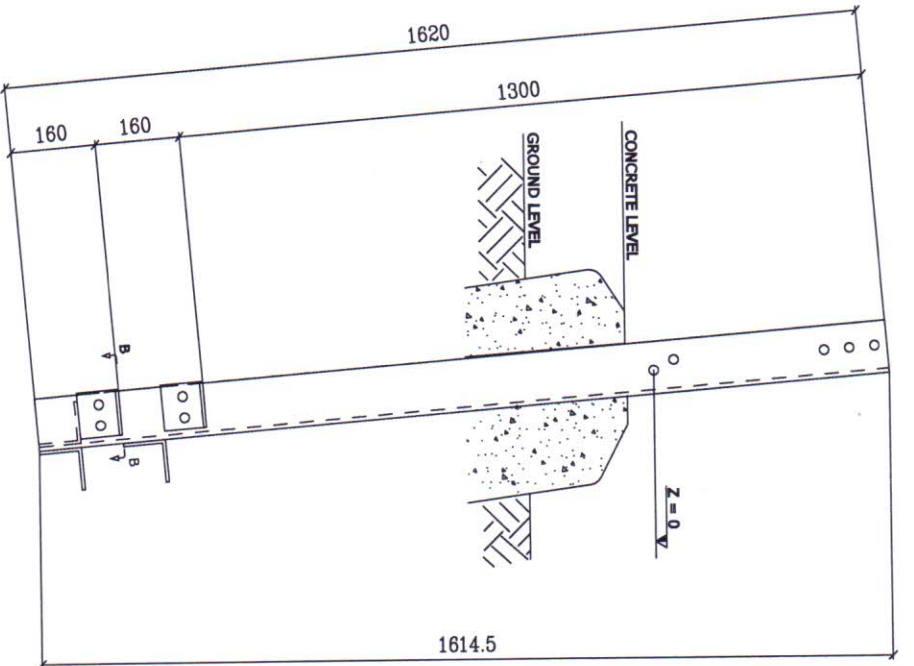
Drawn : M.G
Checked M.G
Control : M.GH
Approved M.GH

SHEET NO
RMM-63-03-YSM03-B-01-03



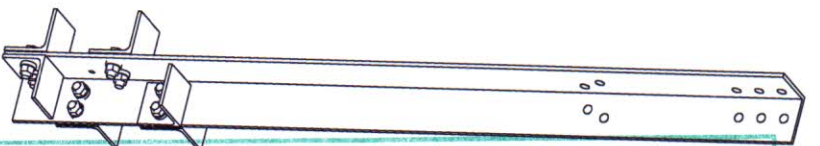


SECTION A-A



SECTION B-B

ONE SET OF STUB



APPROVED

THIS APPROVAL OF INTERPRETATION OF THE WORK TO BE DONE DOES NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITIES. DATE 97-06-13 SIGNED BY A. Ghasemi

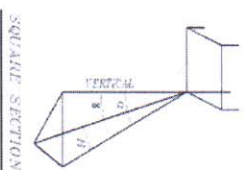
MONENCO IRAN

CONSULTING ENGINEERS

PROJECT:	خط رستاق - مزرعه کلانتر
CLIENT:	63 KV D.C TRANSMISSION LINE
CONSULTANT:	YAZD REGIONAL ELECTRIC CO.
CONTRACTOR:	MONENCO IRAN CO.
TOWER TYPE:	SUSPENSION TSM03
SECTION OF TOWER:	STUB (USE BEFORE TYPE TEST)
DATE:	1397/07/20
DRAWING NO:	RMK-GS-03-TSM03-B-02-07
CHECKED:	A. KATIRI
APPROVED:	M. GHORBANI
DESIGN:	YASAN ENG.
DRAWN:	M. GHASEMI

BASIC BODY + LEG EXT.

BASIC BODY + LEG EXT.														
1/COS(α)	1.004801													
tang(α)	0.098103													
1/COS(γ)	1.009578													
tang(γ)	0.138739													
1/COS(β)	1.004755													
tang(β)	0.097635													
	LEG2m	B.B	4311.50	LEG3m	4507.71	LEG4m	4703.91	LEG5m	4900.12	LEG6m	5096.33	LEG7m	5292.54	LEG8m
		D	6097.38											
	LEG3m	B.B	4522.64	LEG4m	4714.14	LEG5m	4906.02	LEG6m	5098.22	LEG7m	5290.72	LEG8m		
		D	6315.79											
	LEG4m	B.B	4935.38	LEG5m	5115.20	LEG6m	5296.20	LEG7m	5478.24	LEG8m				
		D	6681.23											
	LEG5m	B.B	5504.55	LEG6m	5696.48	LEG7m	5886.85	LEG8m						
		D	7171.26											
	LEG6m	B.B	6187.15	LEG7m	6337.60	LEG8m								
		D	7762.32											
	LEG7m	B.B	6949.82	LEG8m										
		D	8433.19											
	LEG8m	B.B	7769.02											
		D	9166.37											

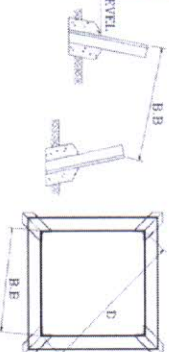


APPROVED

THIS APPROVAL OF INTERPRETATION OF THE WORK TO BE DONE DOES NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITIES. DATE 97-06-31 SIGNED BY A. Ghomseini

MOHENSECO IRAN CONSULTING ENGINEERS

B.B: BACK TO BACK AT THE TOP OF STUB
D: DIAGONAL



TABLES OF BACK TO BACK DISTANCES FOR PLAN ON STUB (VALUES OF "B.B")
TABLES OF DIAGONAL FACT TO BACK DISTANCES FOR PLAN ON STUB (VALUES OF "D")

NOTE:

VERTICAL DISTANCE FROM TOP OF STUB TO CONCRETE LEVEL = 590mm

TYPE: 63k v TOWER YTM15 (DOUBLE CIRCUIT)

چند رسانا - مزرعه کلانتر

Drawn: M.G

Checked: M.G

Control: M.GH

Approved: M.GH

SUB ASSY:

SETTING DIMENSION

BASIC BODY + LEG EXT

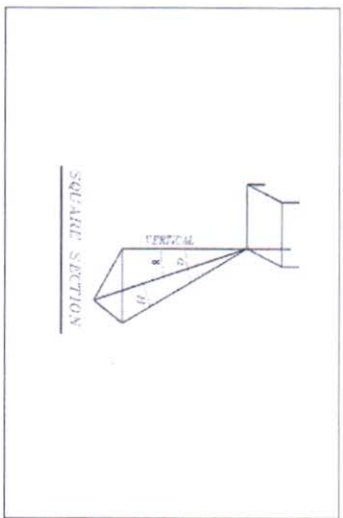
SHEET NO. RMK-63-03-YTM15-B-00-02



1/COS(α)	1.004801
tang(α)	0.098103
1/COS(γ)	1.009578
tang(γ)	0.138739
1/COS(β)	1.004755
tang(β)	0.097635

BASIC BODY + BODY EXT.10m + LEG EXT.

	LEG2m	LEG3m	LEG4m	LEG5m	LEG6m	LEG7m	LEG8m
B.B	6273.57						
D	8872.17						
B.B	6450.41	6469.78					
D	9066.23	9149.65					
B.B	6774.70	6644.30	6665.98				
D	9365.68	9342.06	9427.12				
B.B	7226.59	6962.32	6838.31	6862.19			
D	9760.85	9636.94	9617.99	9704.60			
B.B	7783.91	7405.37	7150.40	7032.45	7058.40		
D	10240.64	10025.26	9908.55	9894.01	9982.08		
B.B	8425.76	7952.59	7585.01	7338.90	7226.70	7254.60	
D	10793.78	10496.63	10290.35	10180.47	10170.10	10259.56	
B.B	9134.34	8594.07	8122.50	7765.44	7527.80	7421.05	7450.81
D	11409.62	11040.44	10753.69	10556.09	10452.68	10446.27	10537.04

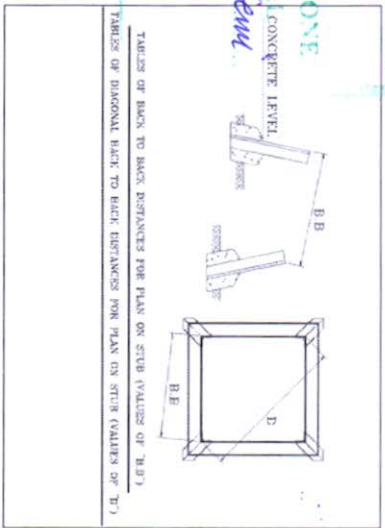


THIS APPROVAL OF INTERPRETATION OF THE WORK TO BE DONE DOES NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL CONCRETE LEVEL RESPONSIBILITIES. DATE 97-06-31 SIGNED BY A. Ghahremani

APPROVED

MOHAMED ALI ENGINEERS

B.B: BACK TO BACK AT THE TOP OF STUB
D: DIAGONAL



NOTE:

VERTICAL DISTANCE FROM TOP OF STUB TO CONCRETE LEVEL = 590mm

TYPE: 63K v. TOWER YTM15 (DOUBLE CIRCUIT)

خط رسانی - مزرعه کلاتر

Drawn: M.G.

Checked: M.G.

Control: M.G.H.

Approved: M.G.H.

SUB ASSY:

SETTING DIMENSION

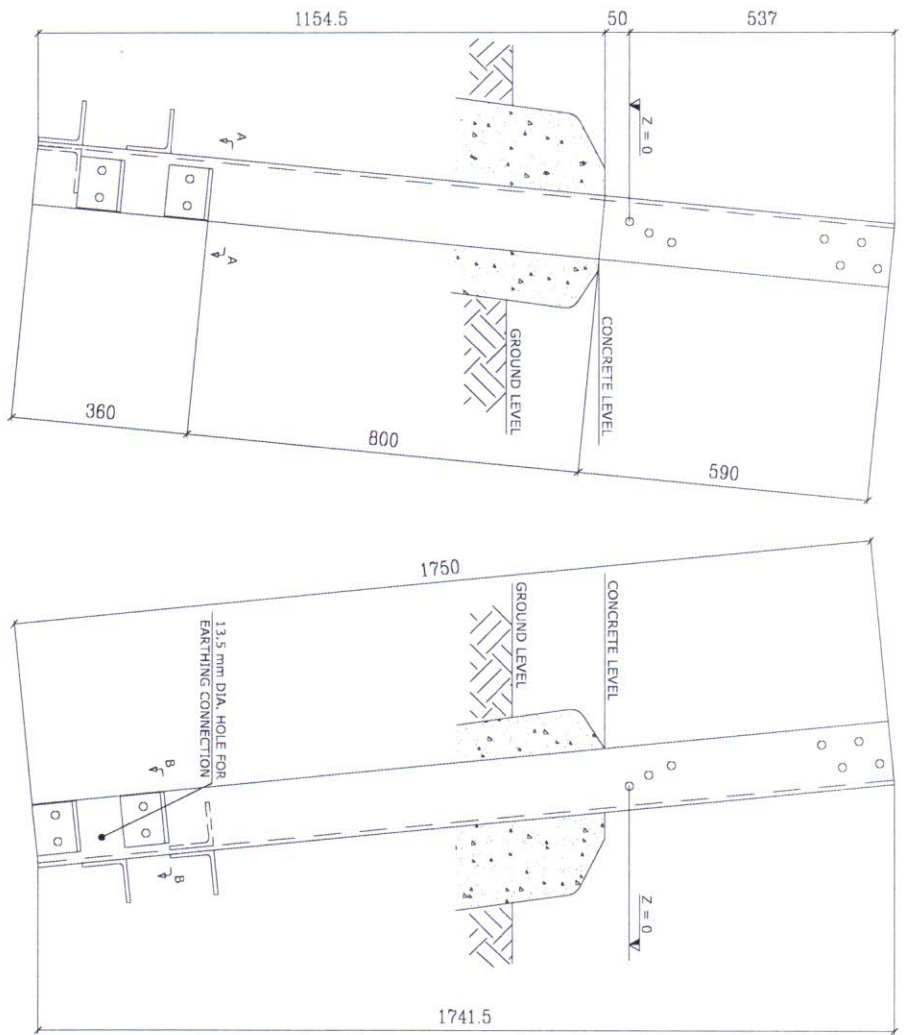
BASIC BODY +

BODY EXT.10m + LEG EXT.



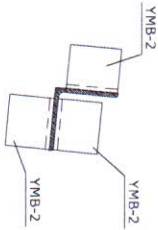
سازنده برج های انتقال نیرو و سیمابراتی

SHEET NO. RMK-63-03-YTM15-B-00-04

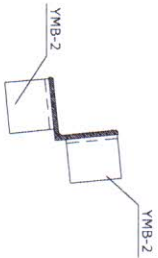


ONE SET OF STUB

SECTION A-A



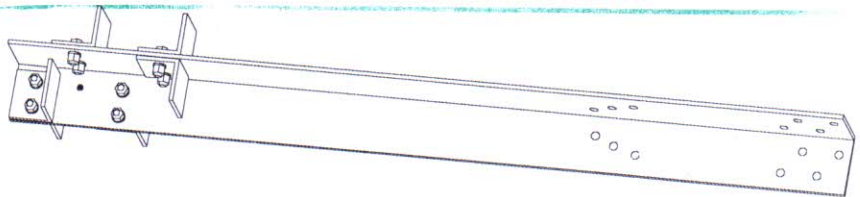
SECTION B-B



APPROVED

THIS APPROVAL OF INTERPRETATION OF THE WORK TO BE DONE DOES NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITIES. DATE: 97-06-31... SIGNED BY: A. Ghassemi

**MOHENCO IRAN
CONSULTING ENGINEERS**



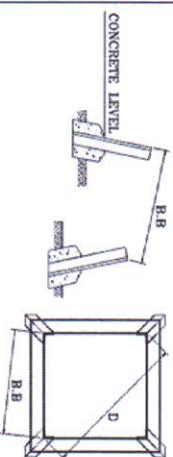
PROJECT:	خط رستاق - مزرعه کلانتر
CLIENT:	63 KV D.C TRANSMISSION LINE
CONSULTANT:	YAZD REGIONAL ELECTRIC CO.
CONTRACTOR:	MONENCO IRAN CO.
TOWER TYPE:	TENSION YTM15
SECTION OF TOWER:	STUB
DESIGN:	YASAN ENG.
CHECKED:	MR. GHORBANI
DATE:	1397/05/10
DRAWING NO:	RIK-63-05-YTM15-B-04-07

سازه های فلزی (سازه های فولادی)
YASAN
سازنده برج های انتقال نیرو و محاسبات

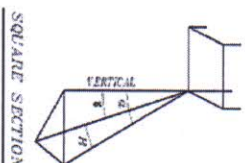
BASIC BODY + BODY EXT.10m + LEG EXT.

1/COS(α)	1.006690						
tang(α)	0.115862						
1/COS(γ)	1.013335						
tang(γ)	0.163854						
1/COS(β)	1.006601						
tang(β)	0.115092						
		LEG2m	LEG3m	LEG4m	LEG5m	LEG6m	LEG7m
LEG2m	B.B	7034.27					
	D	9947.96					
LEG3m	B.B	7220.65	7265.99				
	D	10161.14	10275.66				
LEG4m	B.B	7539.78	7450.18	7497.72			
	D	10468.49	10487.30	10603.37			
LEG5m	B.B	7975.75	7763.34	7679.84	7729.44		
	D	10862.02	10790.34	10813.56	10931.08		
LEG6m	B.B	8510.61	8190.69	7987.36	7909.63	7961.16	
	D	11332.76	11177.35	11112.54	11139.91	11258.79	
LEG7m	B.B	9127.00	8715.45	8406.52	8211.81	8139.52	8192.89
	D	11871.53	11639.95	11493.37	11435.04	11466.33	11586.49
LEG8m	B.B	9809.56	9321.18	8921.60	8623.18	8436.65	8369.51
	D	12469.50	12169.53	11948.23	11810.02	11757.84	11792.82
							8424.61
							11914.20

B.B : BACK TO BACK AT THE TOP OF STUB
D : DIAGONAL



TABLES OF BACK TO BACK DISTANCES FOR PLAN ON STUB (VALUES OF "B.B")
TABLES OF DIAGONAL BACK TO BACK DISTANCES FOR PLAN ON STUB (VALUES OF "D")



SQUARE SECTION

APPROVED

THIS APPROVAL OF INTERPRETATION OF THE WORK TO BE DONE
DOES NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL
RESPONSIBILITIES. DATED 07-04-17 SIGNED BY A. Ghannem

MOHAMED MAAT
CONSULTING ENGINEERS

NOTE :

VERTICAL DISTANCE FROM TOP OF STUB TO
CONCRETE LEVEL = 730mm

TYPE: 63kV TOWER YTM30 DOUBLE CIRCUIT

كود راسك - مزرعة كوكي

Drawn: M.G

SUB ASSY :

Checked: M.G

SETTING DIMENSION

Control: M.GH

BASIC BODY + BODY EXT.10m
+LEG EXT

Approved: M.GH

VER:0

SHEET NO:

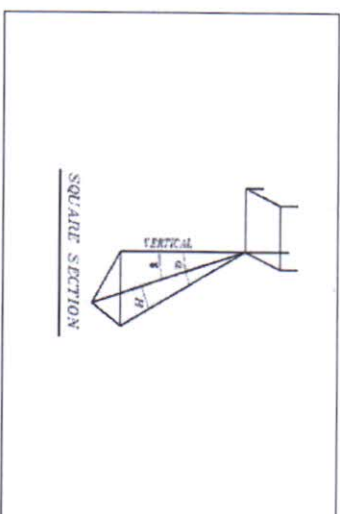
YTM30-B-00-02



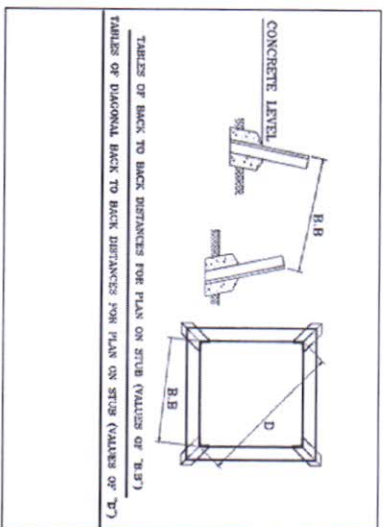
BASIC BODY+BODY EXT 5m+LEG EXT.

1/COS(α)	1.006690
tan(α)	0.115862
1/COS(γ)	1.013335
tan(γ)	0.163854
1/COS(β)	1.006601
tan(β)	0.115092

		LEG2m	LEG3m	LEG4m	LEG5m	LEG6m	LEG7m	LEG8m
LEG2m	B.B	5875.65						
	D	8309.42						
LEG3m	B.B	6075.50	6107.37					
	D	8532.08	8637.13					
LEG4m	B.B	6430.69	6304.13	6339.10				
	D	8865.67	8857.61	8964.84				
LEG5m	B.B	6917.33	6651.16	6532.99	6570.82			
	D	9298.24	9185.22	9183.30	9292.55			
LEG6m	B.B	7509.82	7126.52	6872.37	6762.04	6802.55		
	D	9816.74	9609.01	9505.34	9509.13	9620.25		
LEG7m	B.B	8185.48	7706.52	7337.07	7094.25	6991.27	7034.27	
	D	10408.32	10116.89	9920.86	9825.95	9835.08	9947.96	
LEG8m	B.B	8925.19	8369.43	7905.03	7548.85	7316.74	7220.65	7265.99
	D	11061.26	10696.89	10418.70	10233.71	10147.02	10161.14	10275.67



APPROVED
THIS APPROVAL OF INTERPRETATION OF THE WORK TO BE DONE
DOES NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL
RESPONSIBILITIES. DATE 07-04-17 SIGNED BY A. Ghannouchi.



B.B : BACK TO BACK AT THE TOP OF STUB
D : DIAGONAL

NOTE :

VERTICAL DISTANCE FROM TOP OF STUB TO
CONCRETE LEVEL = 730mm

TYPE: 6SK.V. TOWER YTM30 DOUBLE CIRCUIT

مدير المشروع - مدير مكتب

Drawn: M.G

SUB ASSY :

Checked: M.G

SETTING DIMENSION

Control: M.G

BASIC BODY +BODY EXT
5m+LEG EXT

Approved: M.G

VER:0

SHEET NO:

RMK-63-03-YTM30-B-00-03

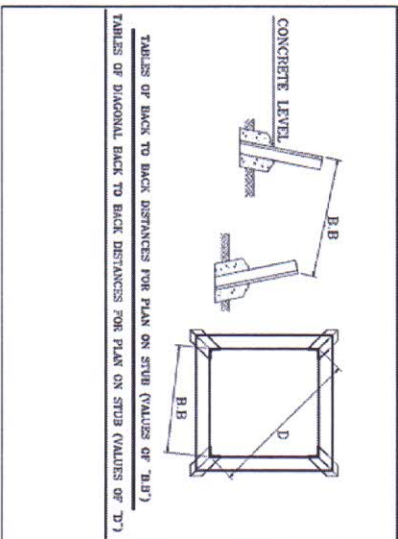


BASIC BODY + LEG EXT.

1/COS(α)	1.006690								
tang(α)	0.115862								
1/COS(γ)	1.013335								
tang(γ)	0.163854								
1/COS(β)	1.006601								
tang(β)	0.115092								
	LEG2m	B.B	4717.03	LEG3m	5163.70	LEG4m	5180.48	LEG5m	5643.93
		D	6670.89						
	LEG3m	B.B	4936.63	LEG4m	5163.70	LEG5m	5643.93	LEG6m	5875.65
		D	6907.51						
	LEG4m	B.B	5342.85	LEG5m	5618.98	LEG6m	5847.10	LEG7m	6107.37
		D	7278.76						
	LEG5m	B.B	5896.71	LEG6m	5847.10	LEG7m	6107.37	LEG8m	6371.13
		D	7765.35						
	LEG6m	B.B	6561.41	LEG7m	6875.65	LEG8m	7107.37		
		D	8347.14						
	LEG7m	B.B	7306.63	LEG8m	7610.37				
		D	9005.69						
	LEG8m	B.B	8110.19						
		D	9725.42						



B.B : BACK TO BACK AT THE TOP OF STUB
D : DIAGONAL



NOTE :

VERTICAL DISTANCE FROM TOP OF STUB TO CONCRETE LEVEL = 730mm

TYPE: 63K.V. TOWER YTM30 DOUBLE CIRCUIT

Drawn: M.G. SUB ASSY: SETTING DIMENSION

Checked: M.G. BASIC BODY + LEG EXT

Control: M.G.H.

Approved: M.G.H.

VER:0

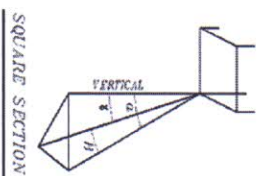
SHEET NO: RMK-63-03-YTM30-B-00-04

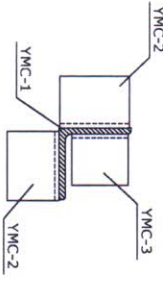
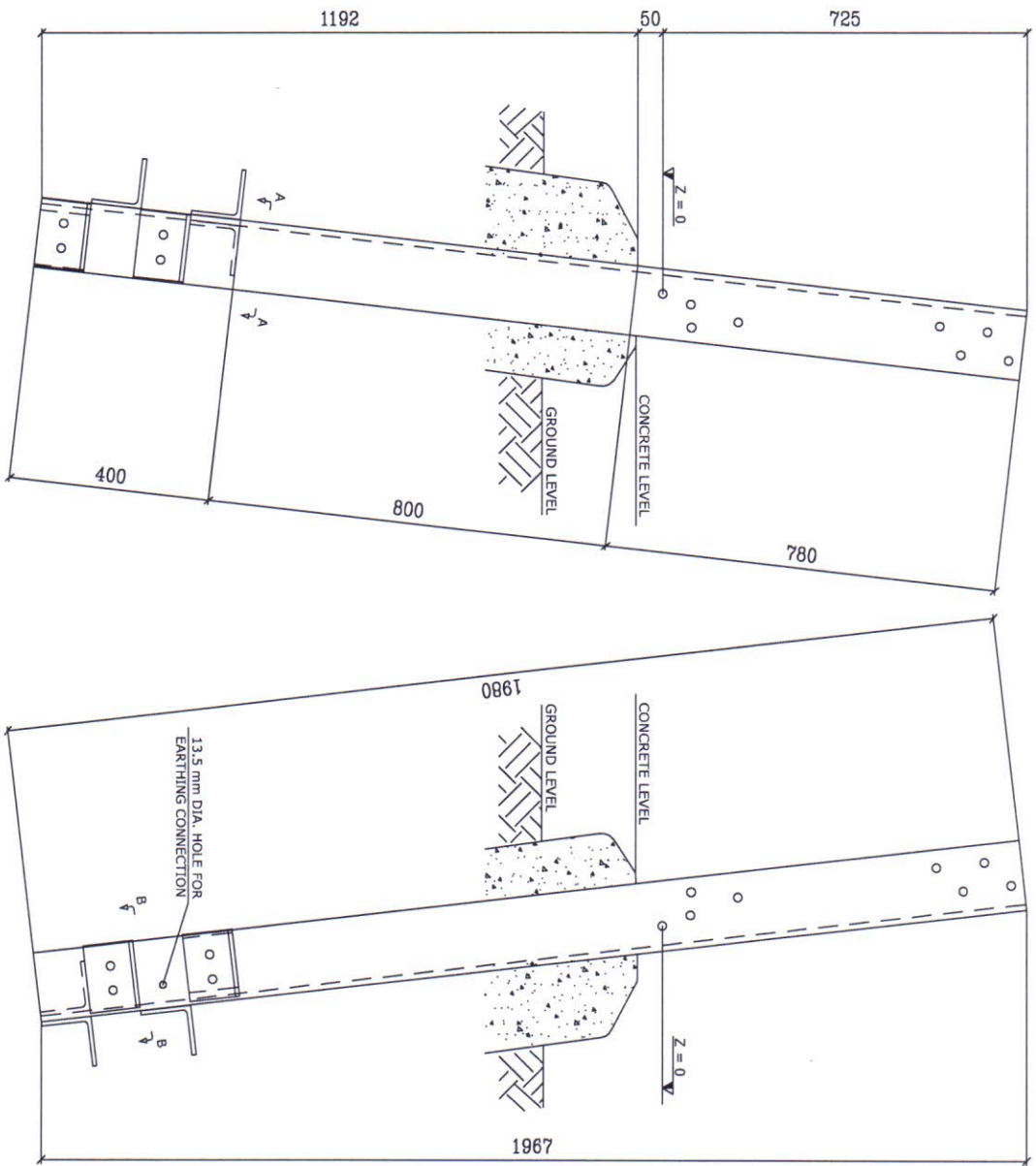
YASAN Engineering & Construction Co.

APPROVED

THIS APPROVAL OF INTERPRETATION OF THE WORK TO BE DONE DOES NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY. DATE 97/04/17 SIGNED BY A. Chahseny.

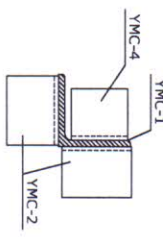
MOMENCO IRAN CONSULTING ENGINEERS



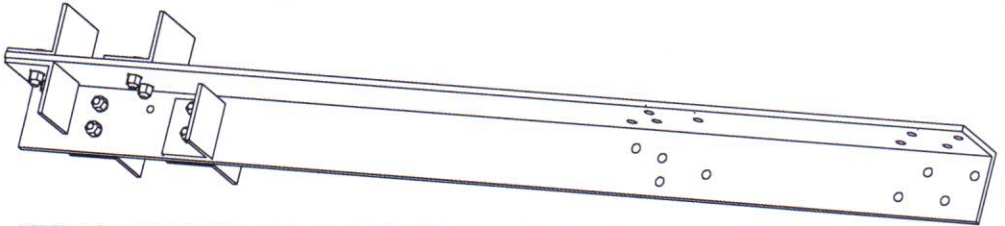


SECTION A-A

ONE SET OF STUB



SECTION B-B



APPROVED

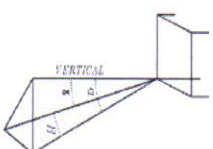
THIS APPROVAL OF INTERPRETATION OF THE WORK TO BE DONE
DOES NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL
RESPONSIBILITIES. DATE 97.04.17 SIGNED BY A. Ghasemi

**MONENCO IRAN
CONSULTING ENGINEERS**

PROJECT:		خط رستاق - مزرعه کلنتر	
CLIENT:		YAZD REGIONAL ELECTRIC CO.	
CONSULTANT:		MONENCO IRAN CO.	
CONTRACTOR:		YASAN CO.	
TOWER TYPE:		TENSION YTM30	
SECTION OF TOWER:		STUB	
DATE:		1397/04/03	
DRAWING NO:		RMK-63-TTM30-B-02-08	
APPROVED:		MR. GHORBANI	
CHECKED:		M. HAJARI	
DESIGN:		YASAN ENG.	

BASIC BODY + LEG EXT.

$1/\cos(\alpha)$	1.009155								
$\tan(\alpha)$	0.135625								
$1/\cos(\gamma)$	1.018228								
$\tan(\gamma)$	0.191803								
$1/\cos(\beta)$	1.008991								
$\tan(\beta)$	0.134395								
		LEG2m	LEG3m	LEG4m	LEG5m	LEG6m	LEG7m	LEG8m	
LEG2m	B.B	5418.07							
	D	7662.31							
LEG3m	B.B	5644.64	5689.32						
	D	7917.52	8045.92						
LEG4m	B.B	6036.72	5911.72	5960.57					
	D	8290.76	8298.19	8429.52					
LEG5m	B.B	6564.72	6293.01	6179.16	6231.82				
	D	8766.99	8663.54	8679.13	8813.13				
LEG6m	B.B	7198.80	6806.55	6550.51	6446.92	6503.07			
	D	9330.43	9128.38	9037.21	9060.29	9196.73			
LEG7m	B.B	7913.50	7424.95	7050.53	6809.08	6714.96	6774.32		
	D	9966.31	9678.39	9491.51	9411.69	9441.64	9580.34		
LEG8m	B.B	8688.95	8124.30	7654.04	7296.43	7068.59	6983.25	7045.57	
	D	10661.67	10299.94	10028.95	9856.20	9786.87	9823.17	9963.94	



SQUARE SECTION

APPROVED
THIS APPROVAL OF INTERPRETATION OF THE WORK TO BE DONE
DOES NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL
RESPONSIBILITIES. DATE 97.05.28 SIGNED BY *Al-Masoud*

سازمان های فنی (سازمان های فنی)
YASAN
سازمان های فنی (سازمان های فنی)

NOTE :

VERTICAL DISTANCE FROM TOP OF STUB TO
CONCRETE LEVEL = 700mm

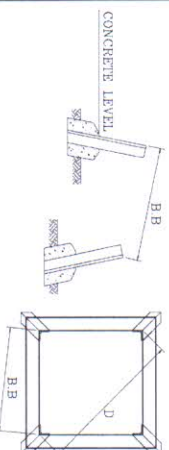
TYPE: 63K.V. TOWER YTM60 (DOUBLE CIRCUIT)
جدول ارتفاعات - متر به متر

Drawn: M.G. SUB ASSY :
Checked: M.G. SETTING DIMENSION
Control: M.G.H. BASIC BODY + LEG EXT
Approved: M.G.H.

سازمان های فنی (سازمان های فنی)
YASAN
سازمان های فنی (سازمان های فنی)
SHEET NO. RMK-63-03-YTM60-B-00-02

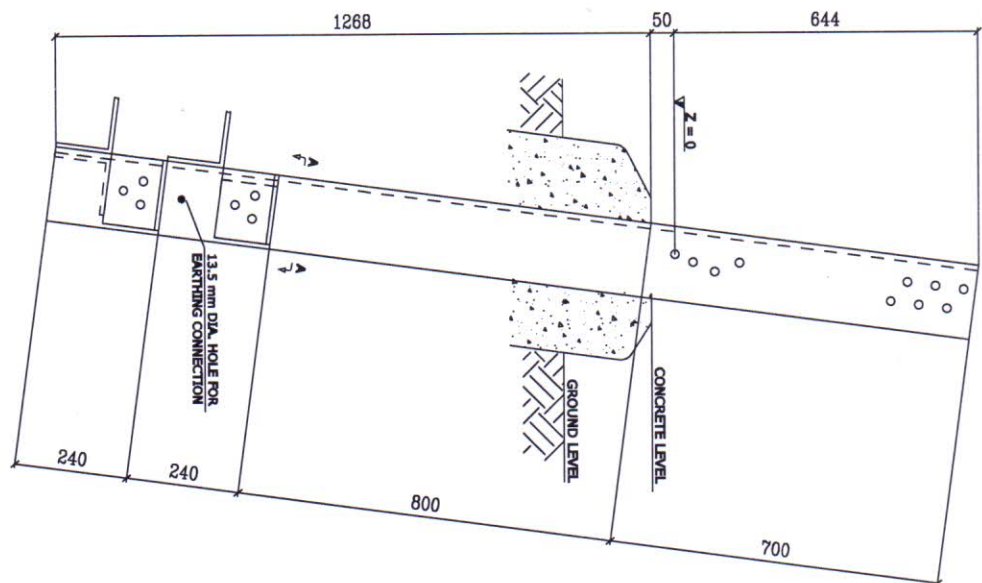
B.B : BACK TO BACK AT THE TOP OF STUB
D : DIAGONAL

TABLES OF BACK TO BACK DISTANCES FOR PLAN ON STUB (VALUES OF "B.B")
TABLES OF DIAGONAL BACK TO BACK DISTANCES FOR PLAN ON STUB (VALUES OF "D")

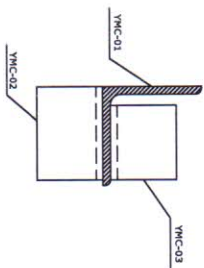


BASIC BODY + BODY EXT.5m + LEG EXT.

1/COS(α)	1.009155	BASIC BODY +BODY EXT.5m + LEG EXT.																													
tang(α)	0.135625																														
1/COS(γ)	1.018228																														
tang(γ)	0.191803																														
1/COS(θ)	1.008991																														
tang(θ)	0.134395																														

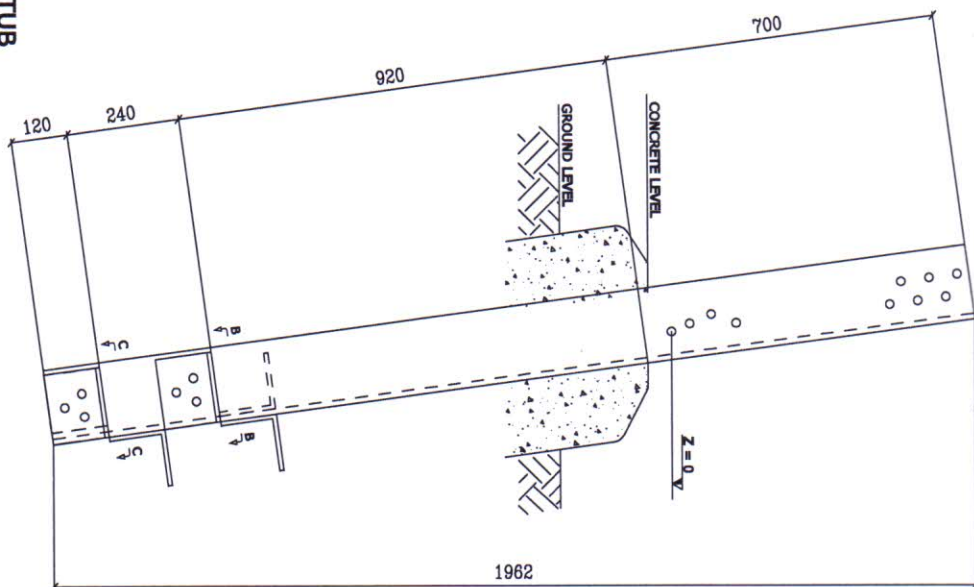
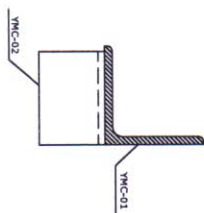


SECTION A-A

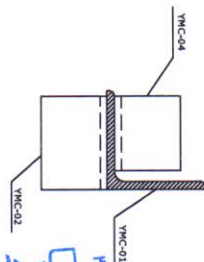


ONE SET OF STUB

SECTION B-B

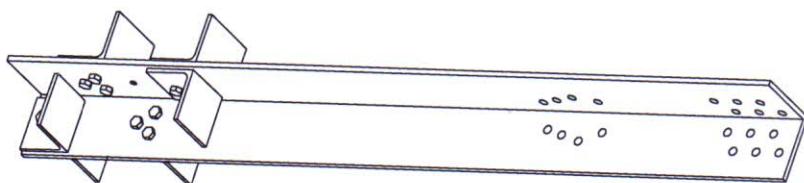


SECTION C-C



سازنده های فازی (سازنده های فازی) م
YASAN
سازنده های فازی (سازنده های فازی) م
سازنده های فازی (سازنده های فازی) م

PROJECT:	خط رستاق - مزرعه کلانتر
CLIENT:	63 KV D.C TRANSMISSION LINE
CONSULTANT:	YAZD REGIONAL ELECTRIC CO.
DESIGNER:	MONENCO IRAN CO.
DRAWN:	YASAN CO.
CHECKED:	M. GHASEMI
APPROVED:	ARATITE
DATE:	1397/08/29
DRAWING NO:	RMK-GS-05-YTM60-B-01-08



APPROVED

THIS APPROVAL OF INTERPRETATION OF THE WORK TO BE DONE DOES NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITIES. DATE 97-06-13 SIGNED BY A. Ghosem

MONENCO IRAN
CONSULTING ENGINEERS