

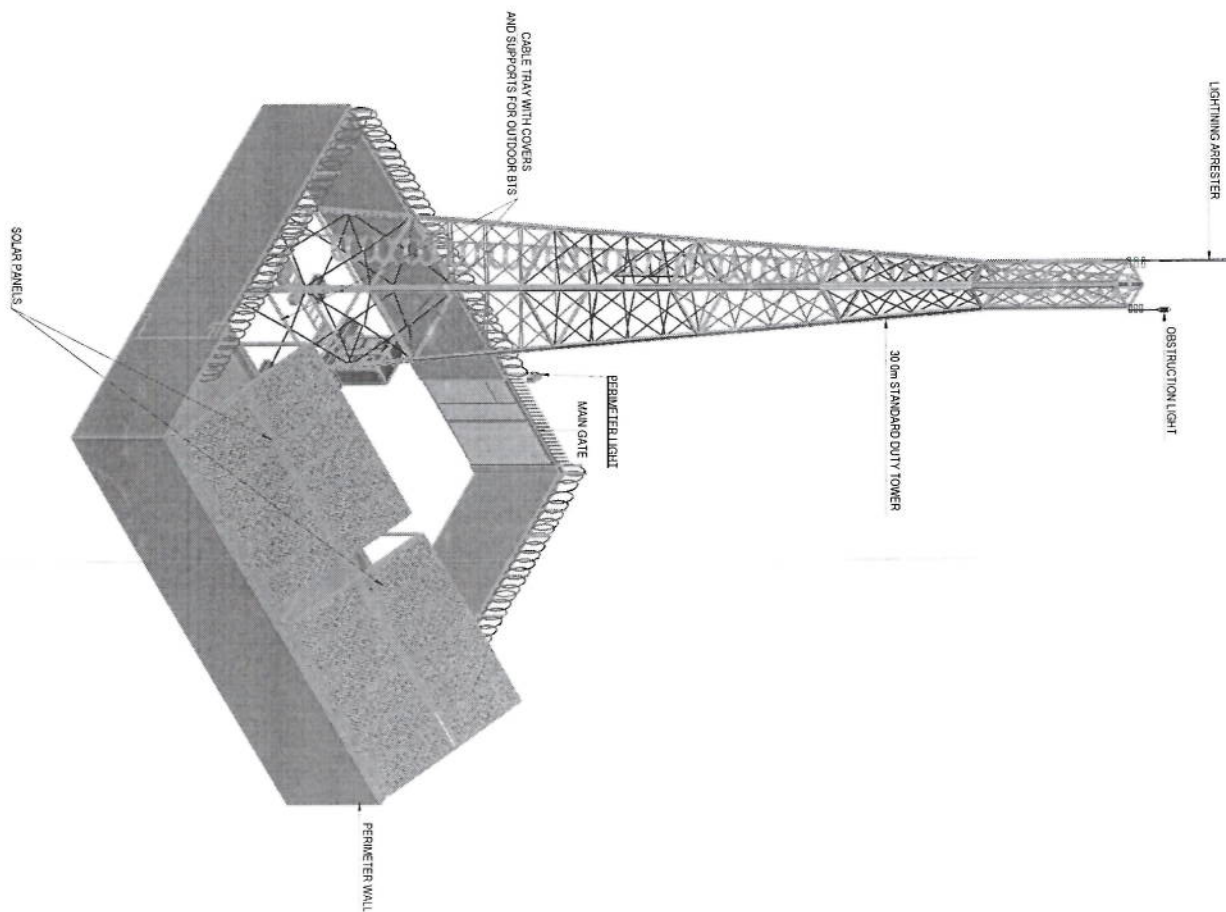
Site ID		TAK053		Candidate		1	
New Lat		37.46978		New long		69.88486	
Location Name							
Province		بج		District		بج	
Type of Property							
Private?		yes		Gov?		NA?	
Property owner				Owner Accessable?		Yes	
Property owner contact							
Contract Agreement Negotiated?							
Site type		RT:		GF:		GM	
Land type		Desert level		Hill		Mountainouse	
		OK				Rural	
						Rocky	
Access Road available							
		yes		Length "m": 2000m		Width "m": 3m	
Needed tower type		GF		OK		GM	
Needed tower height		GF		40M			
Boundary wall needed							
Boundary wall length		One side:		2 sides:		3 sides:	
Guardroom needed		Yes		Yes		Yes	
Toilet/Washroom							
Wall Fence needed							
RT site							
Building type							
No of floors							
Building height							
RT available area							
Location photo record							
General view		yes		Panaromic (45°) 8 photos		Access Direction 3Phs	
yes							

نوت : در ولسوالی ذکر شده ساحات محروم نموده شبکه مخابراتی ضعیف و بعضاً هم کار نمیکند در قریه انجیر ولسوالی چاه آب سروی شده و نفوس بسیار زیاد دارد و مردم بیست هزار ستم کارت تقاضا نمودند سری در حدود دو کیلومتر ضرورت دارد خانه متیاشد

Handwritten signatures and initials in blue ink.

STANDARD DRAWING
DETAILED DESIGN DRAWING

Handwritten signature



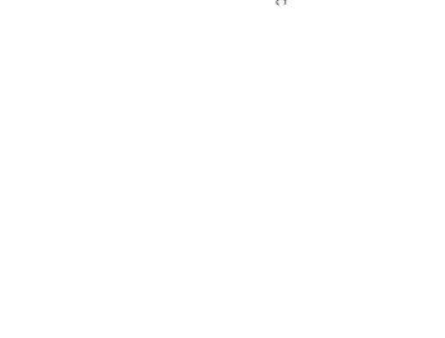
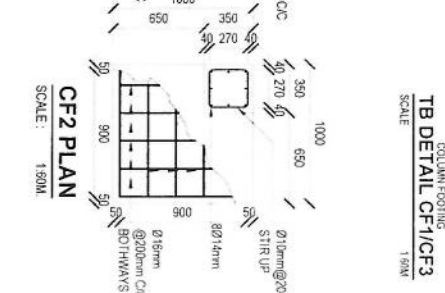
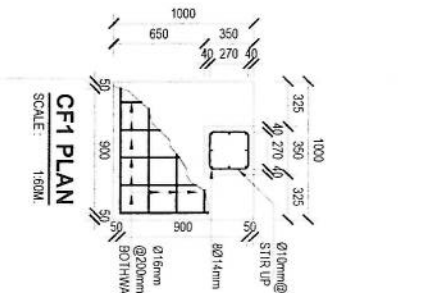
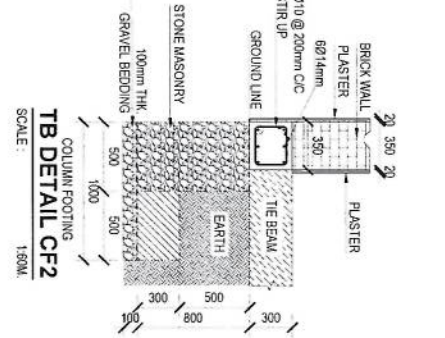
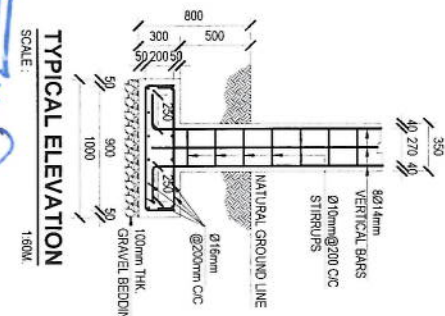
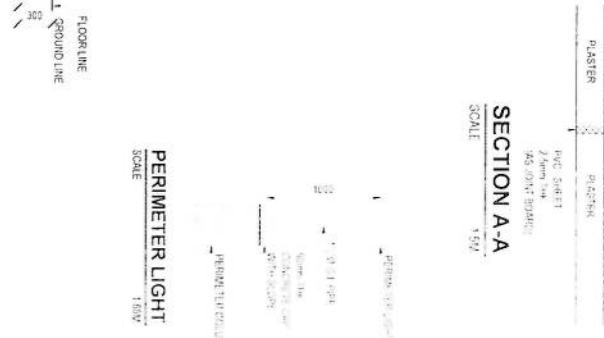
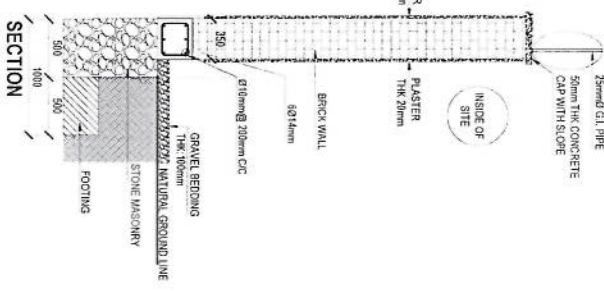
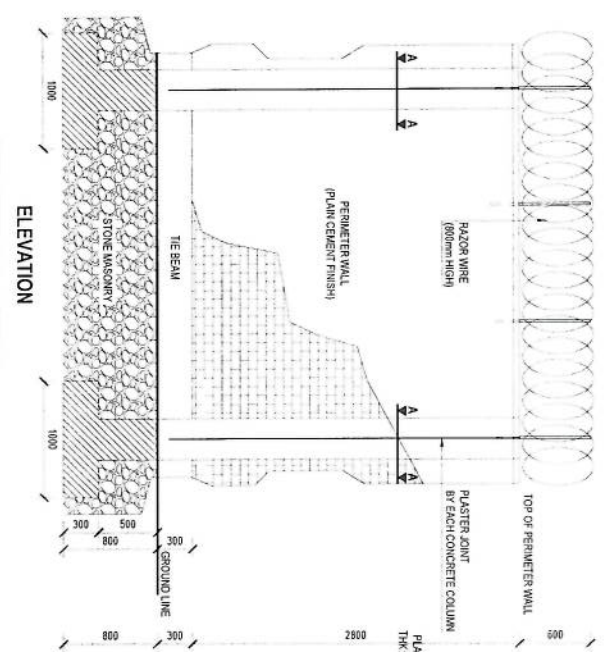
PERSPECTIVE
SCALE: 1:100

TOWER HEIGHT: 300m ± 10m

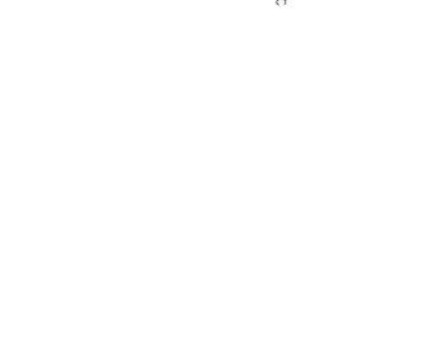
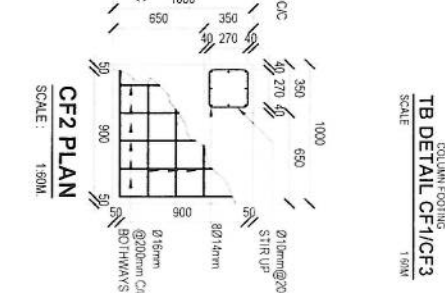
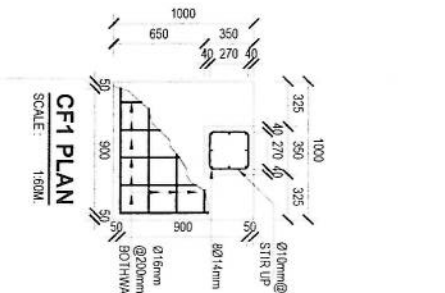
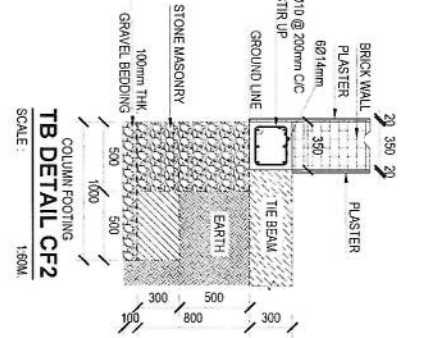
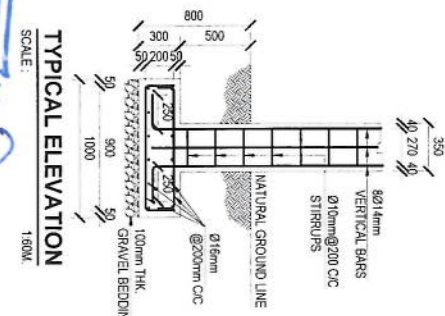
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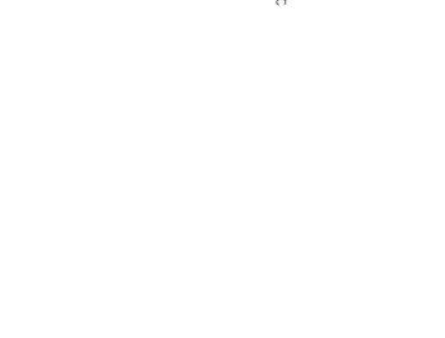
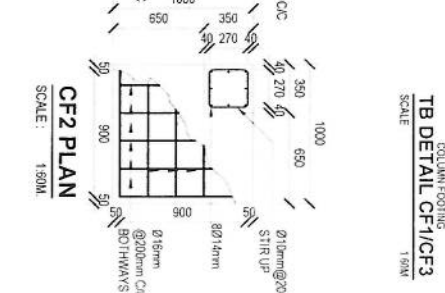
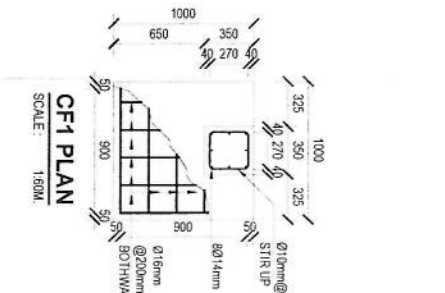
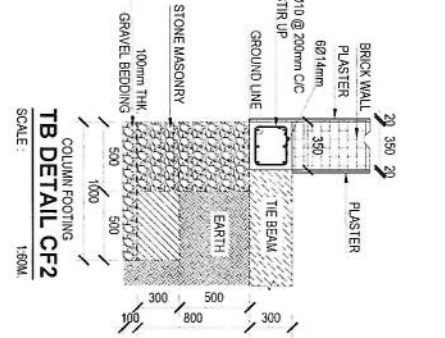
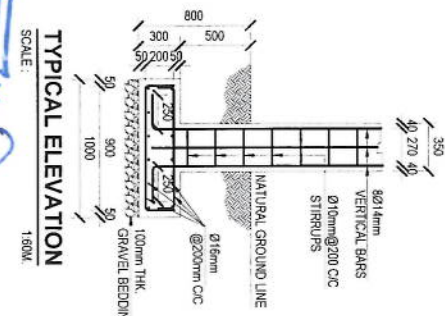
PERIMETER WALL DETAIL
SCALE: 1:50M



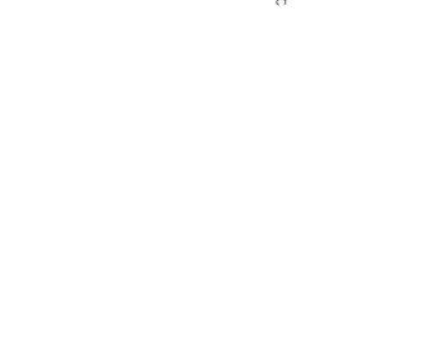
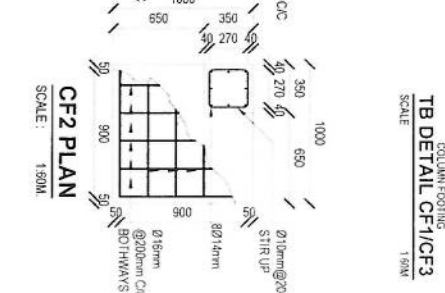
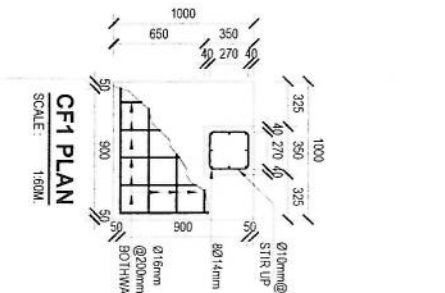
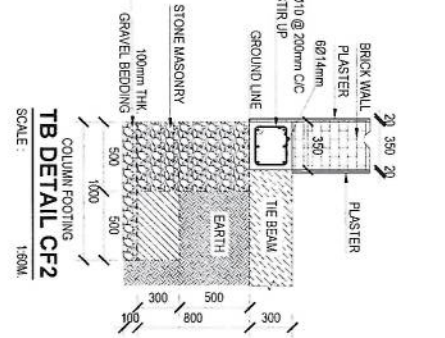
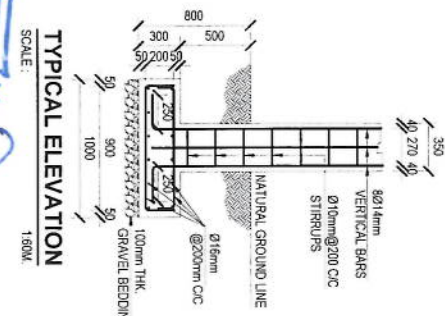
TYPICAL ELEVATION
SCALE: 1:50M



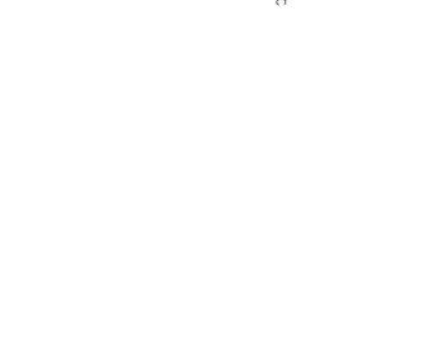
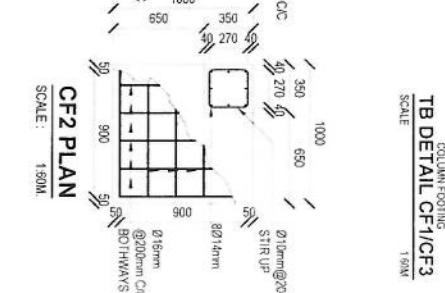
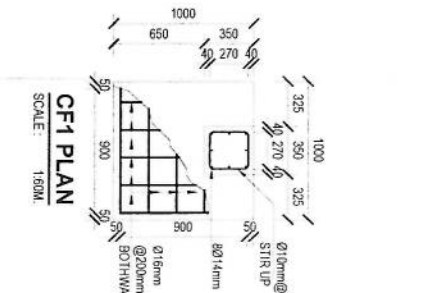
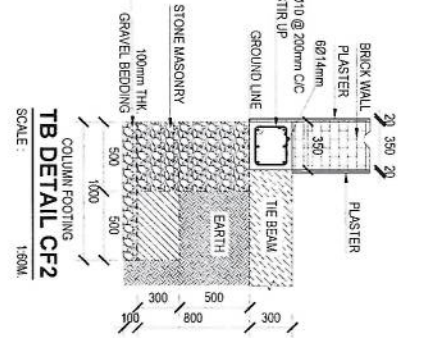
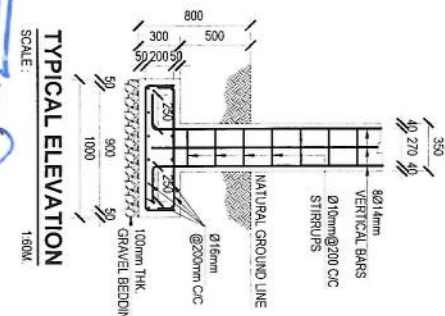
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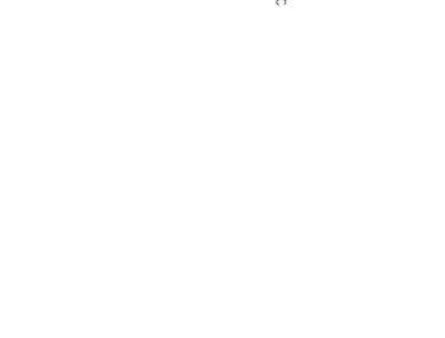
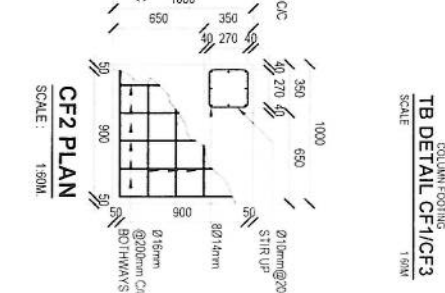
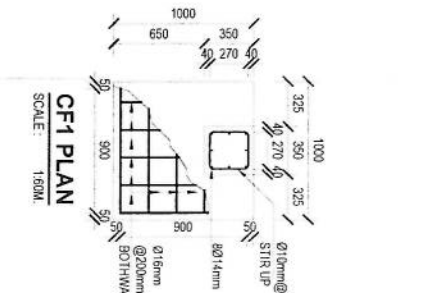
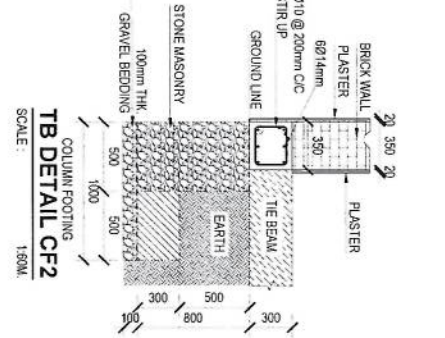
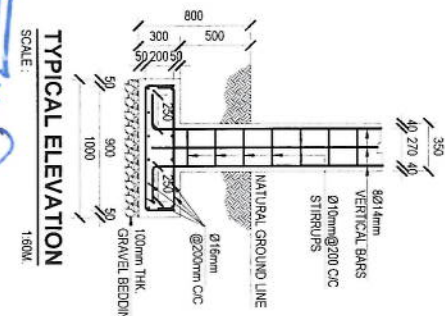
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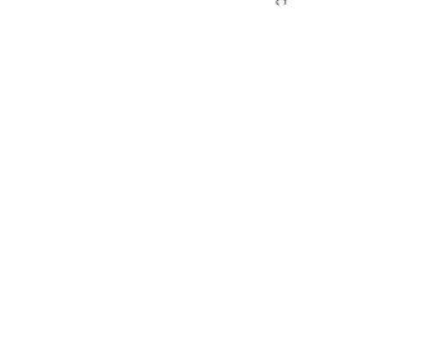
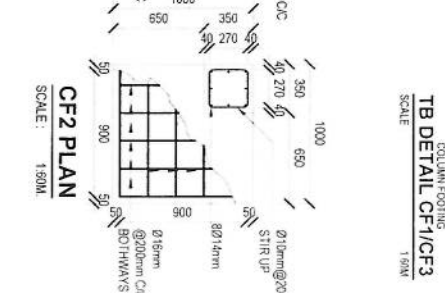
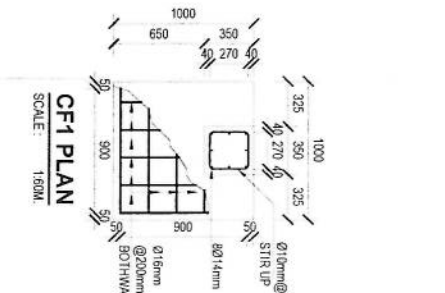
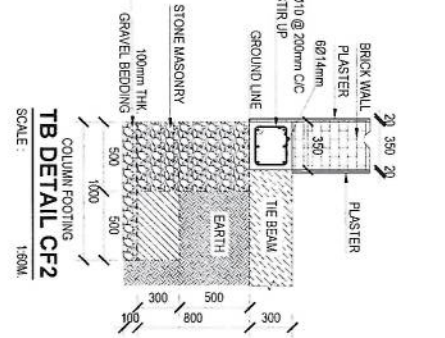
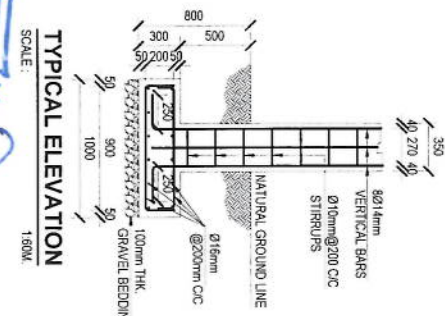
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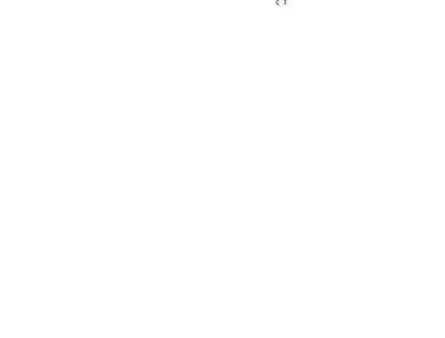
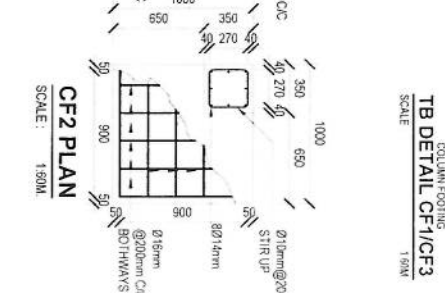
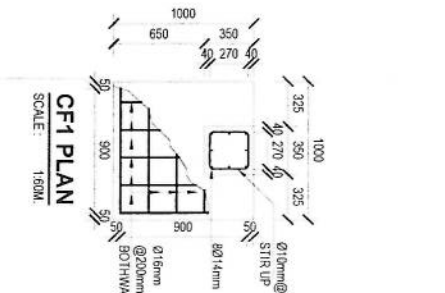
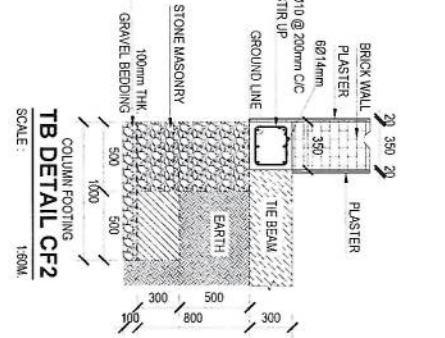
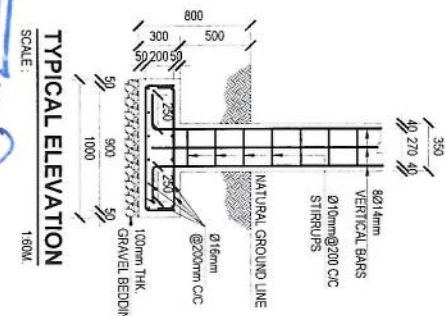
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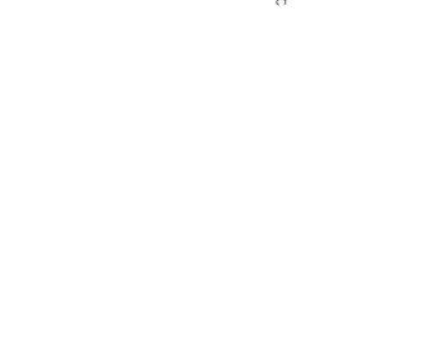
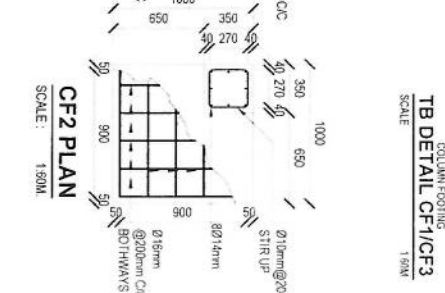
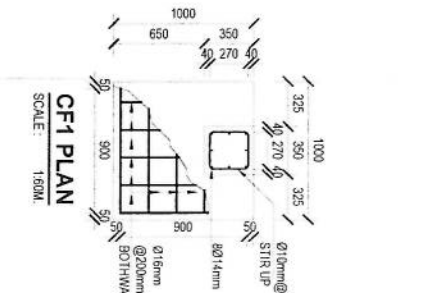
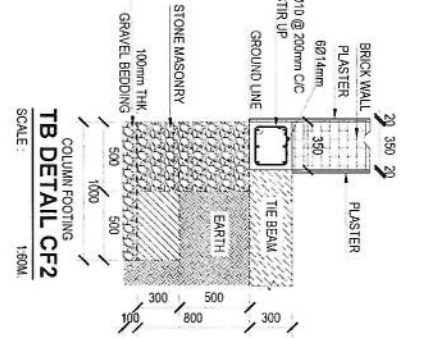
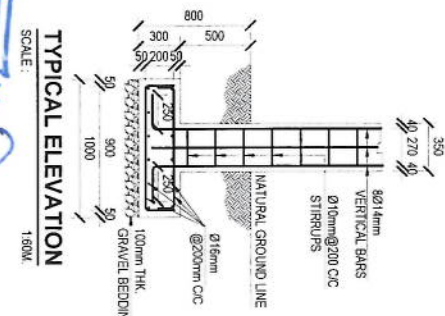
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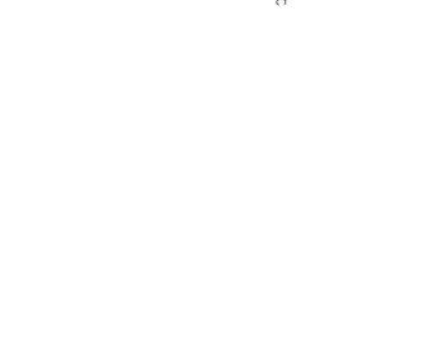
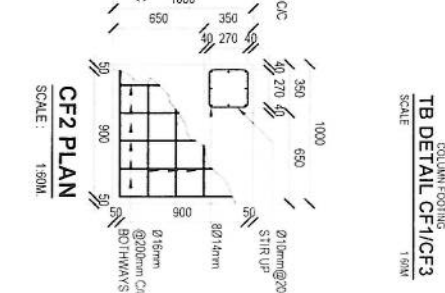
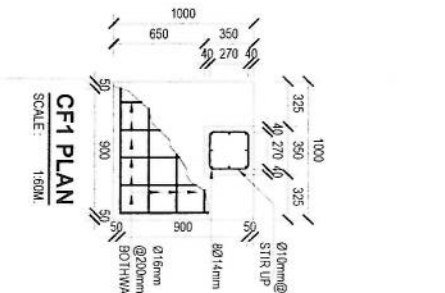
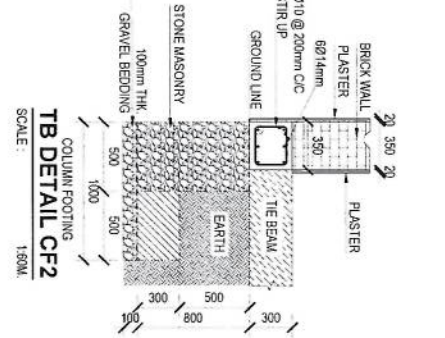
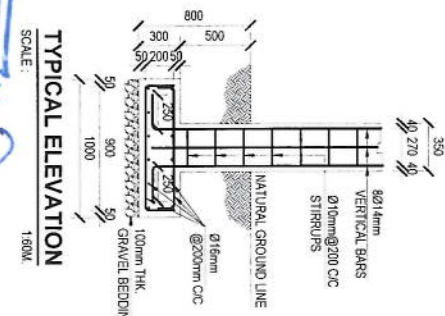
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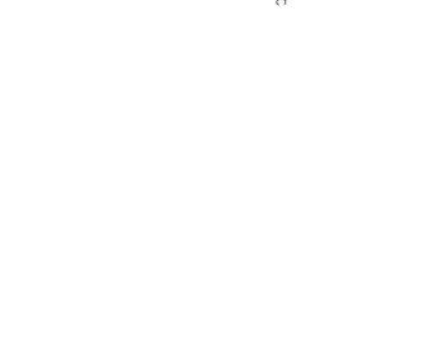
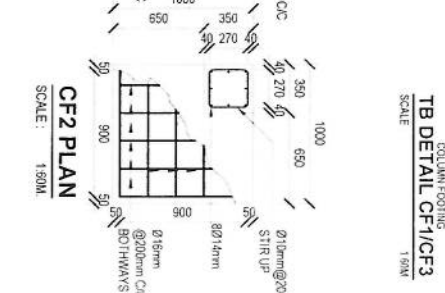
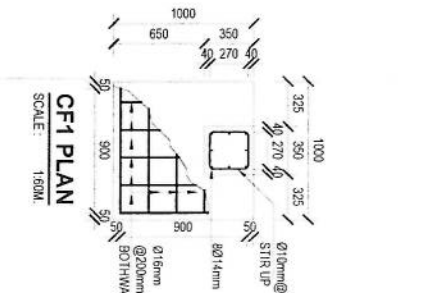
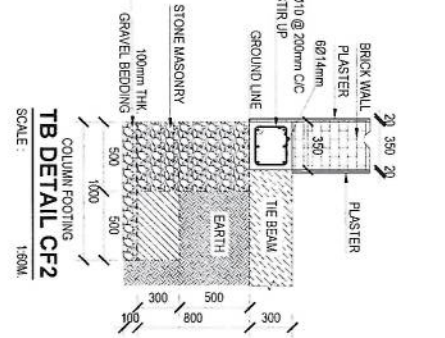
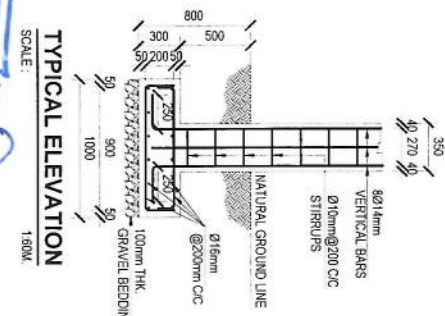
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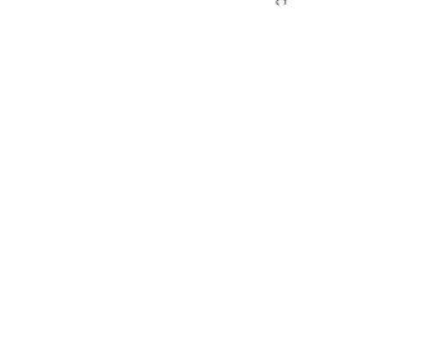
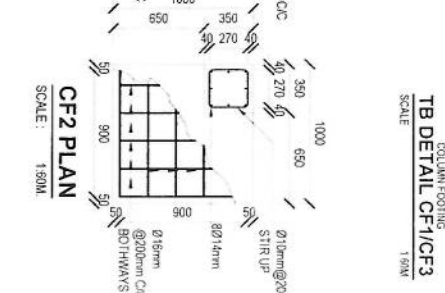
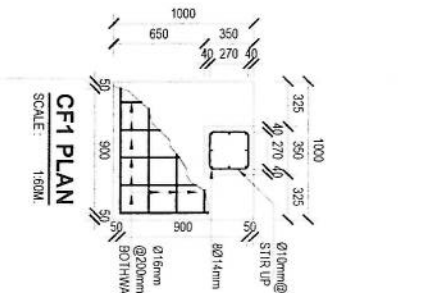
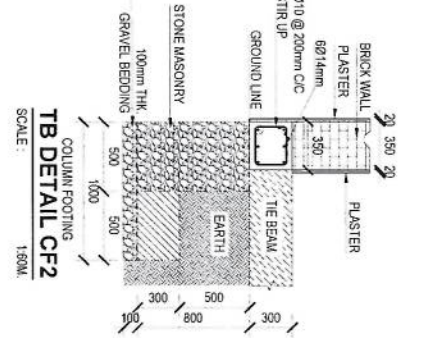
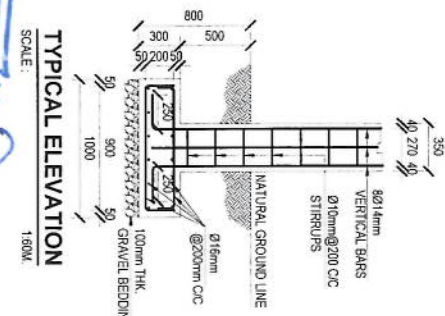
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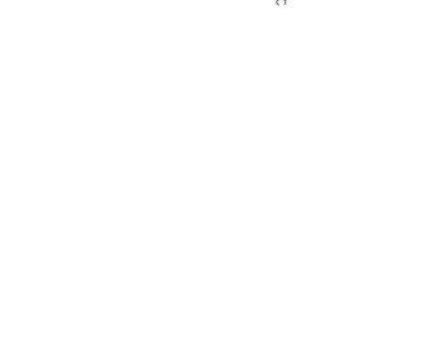
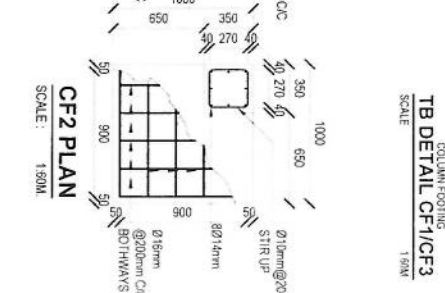
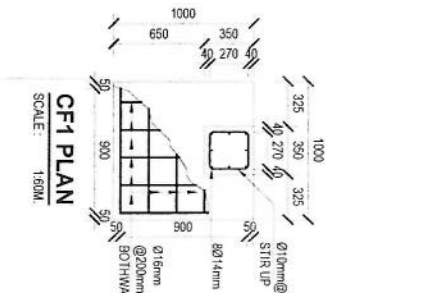
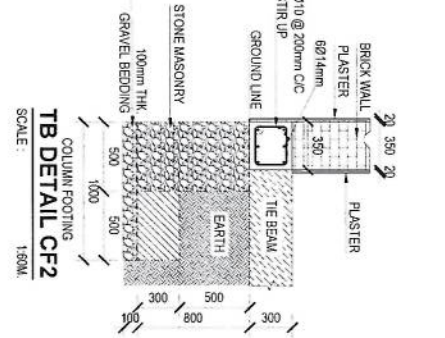
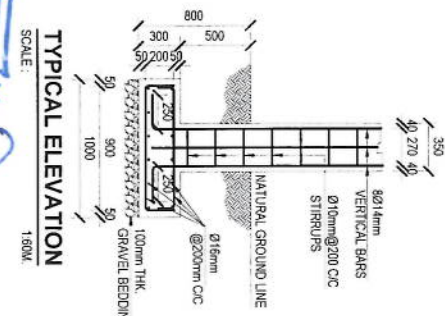
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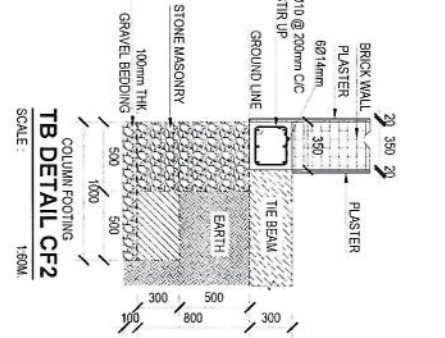
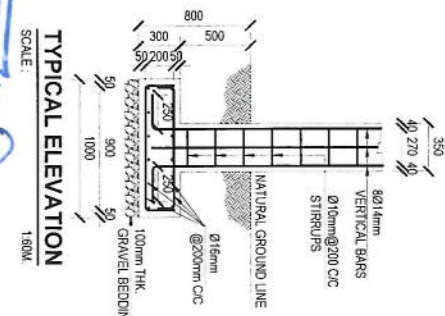
TYPICAL ELEVATION
SCALE: 1:50M



TYPICAL ELEVATION
SCALE: 1:50M



TYPICAL ELEVATION
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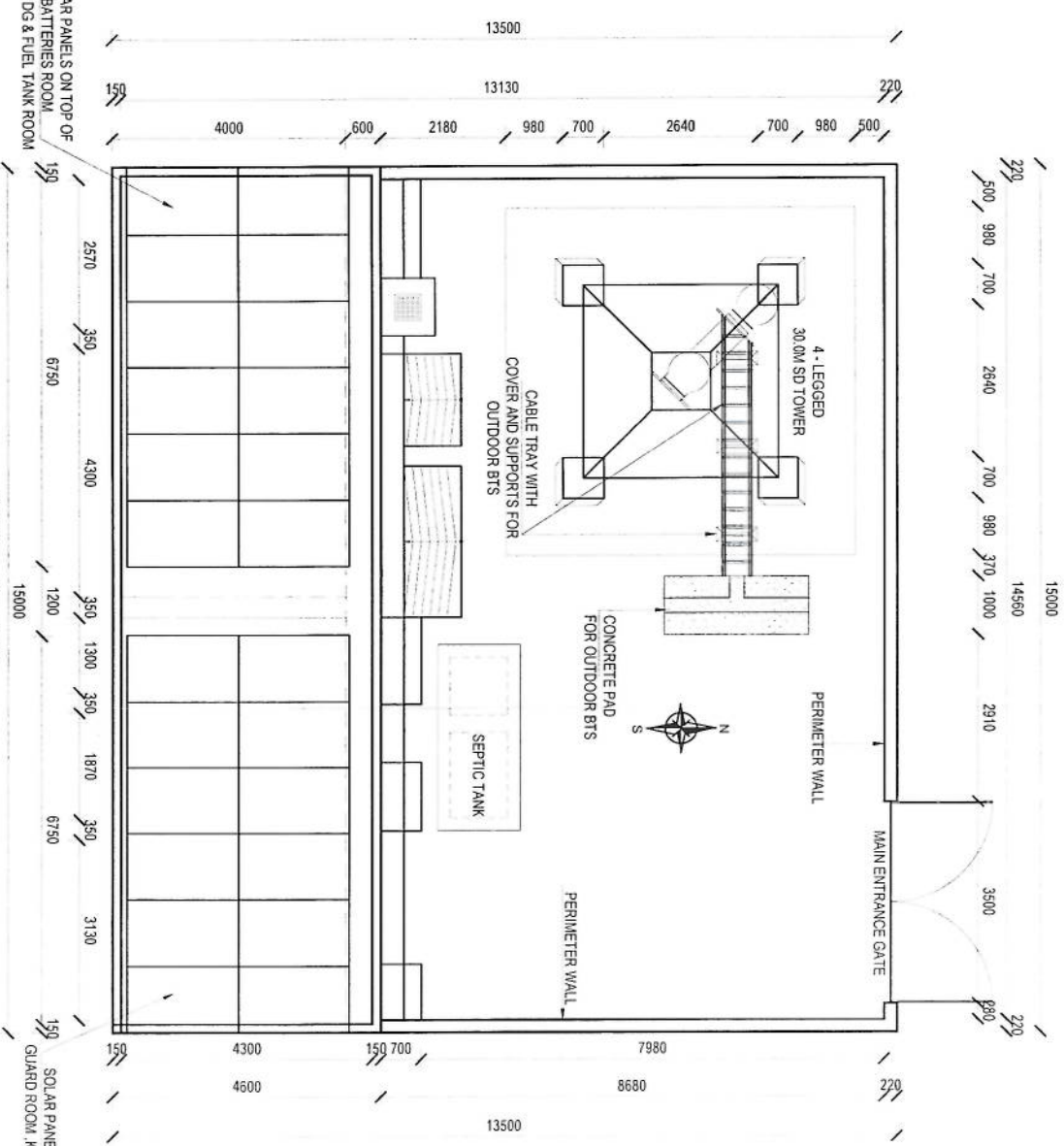


SOLAR PANELS ON TOP OF
BATTERIES ROOM
PLUS DG & FUEL TANK ROOM

SOLAR PANELS ON TOP OF
GUARD ROOM, KITCHEN & TOILET

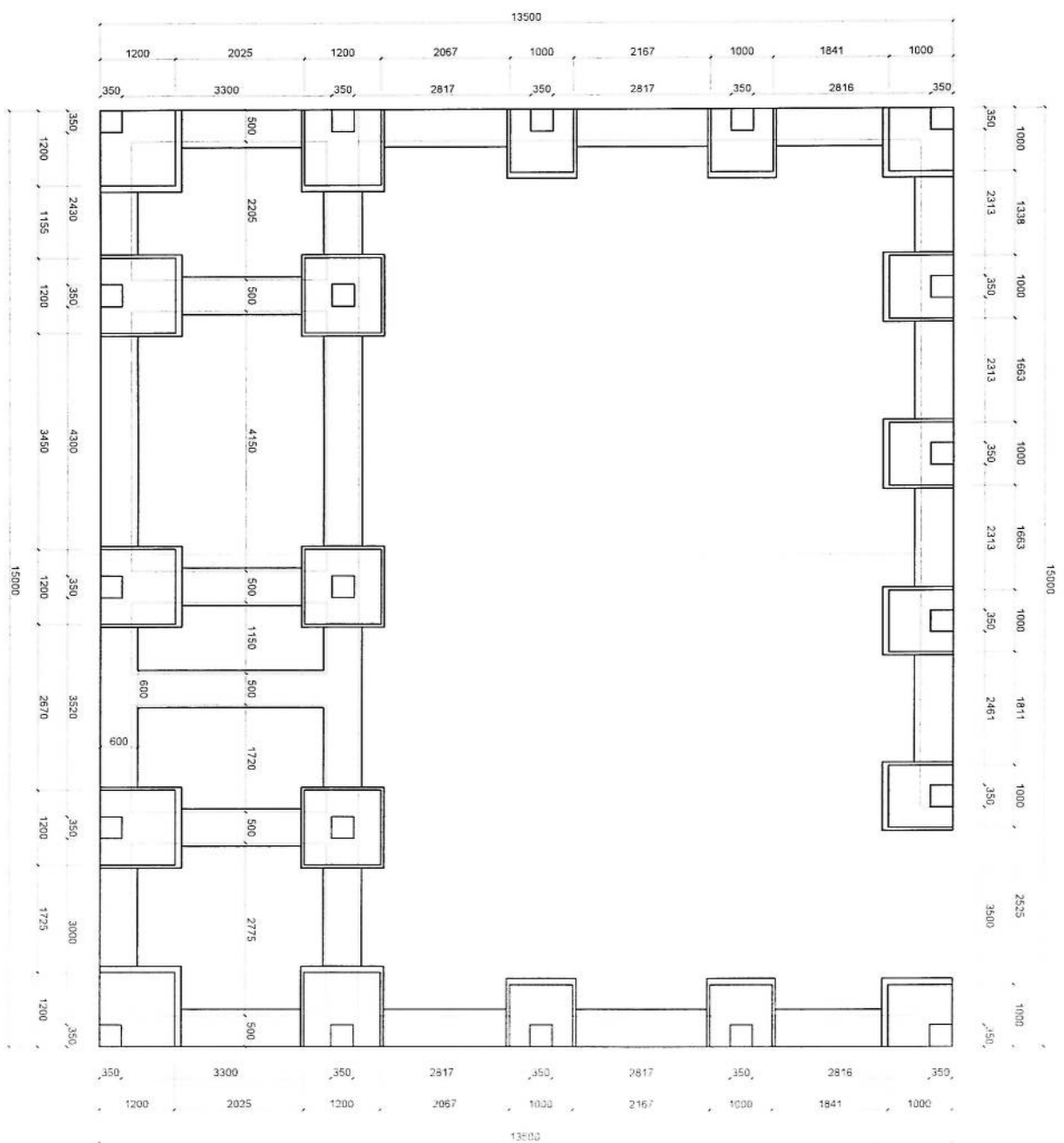
SITE PLAN

SCALE : 1:150M.



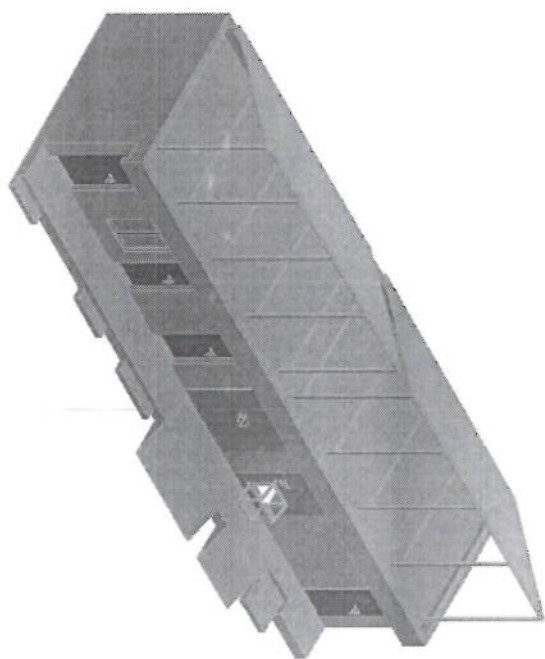
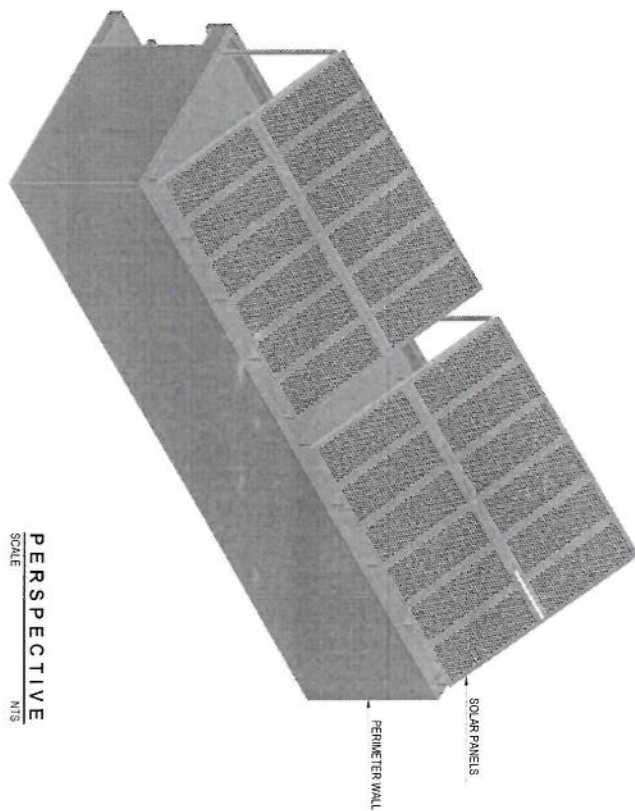
Handwritten signature

11/11/13



PERSPECTIVE

SCALE 1/8" = 1'-0"



Handwritten signature in blue ink.

[Handwritten signature]

- HATCH LEGEND**

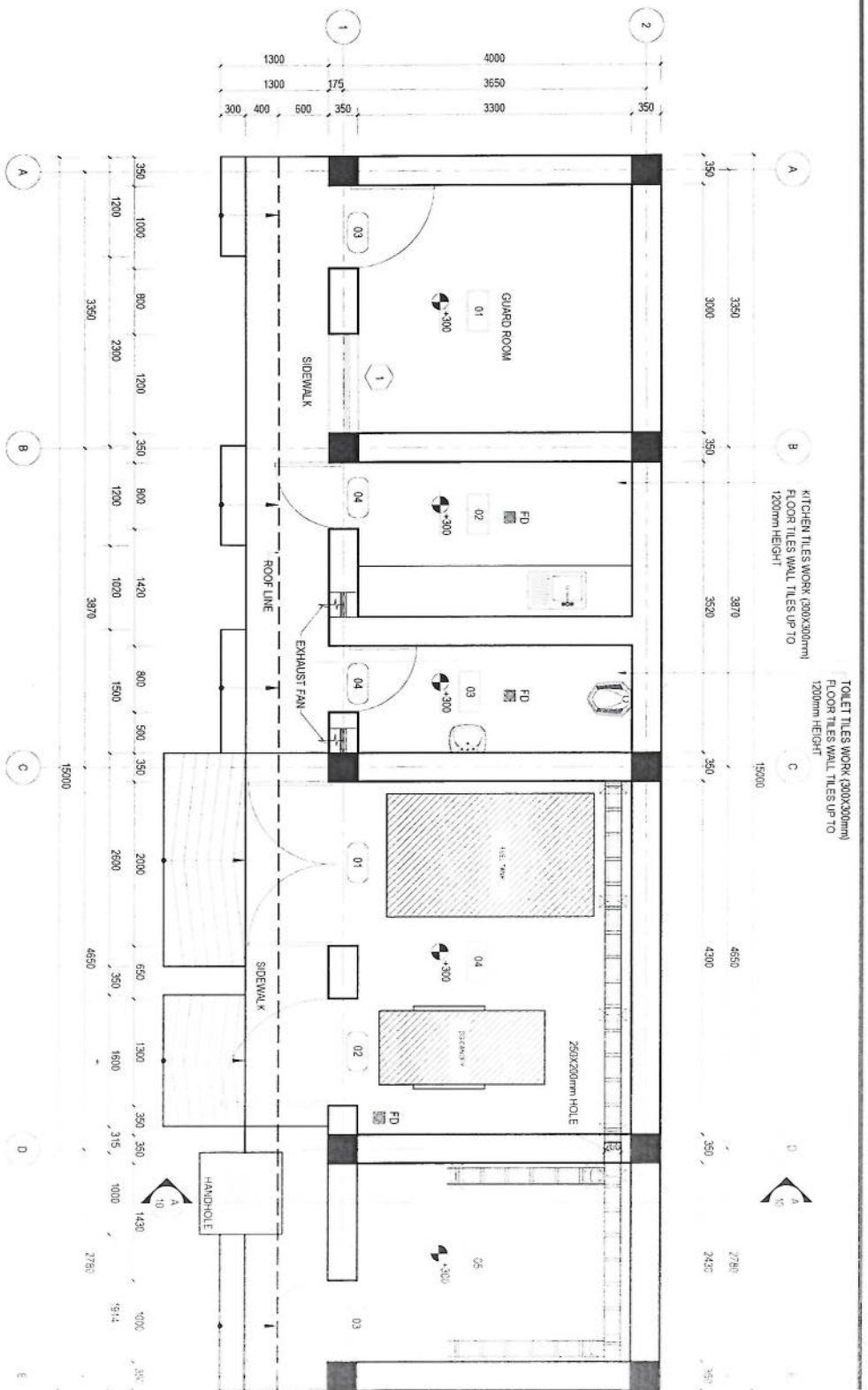
 - PLAIN CONCRETE CEMENT
 - BRICK WORK
 - OVERHEAD STRUCTURE
 - REINFORCEMENT COLUMN
 - DOWN
 - FLOOR DRAIN
 - ELEVATION

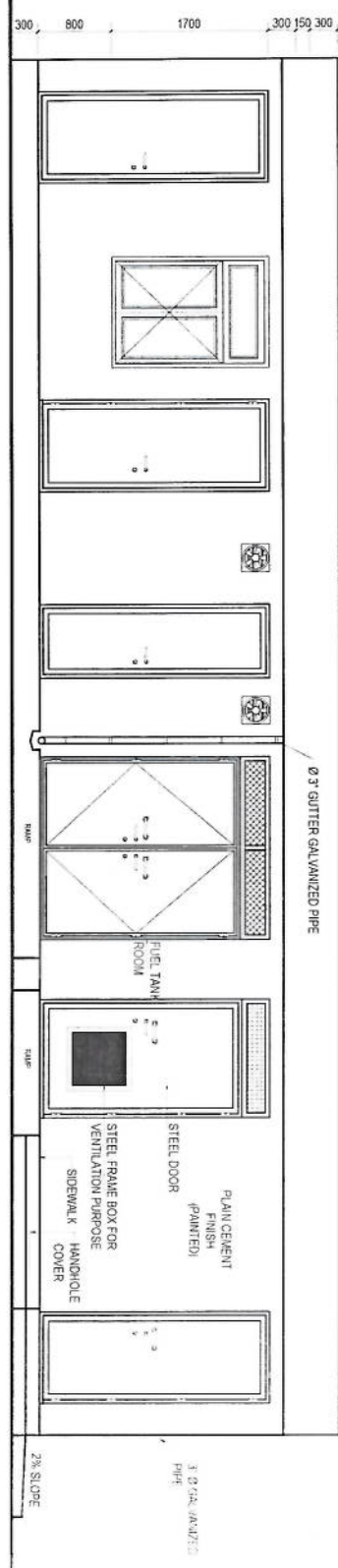
ROOM LEGEND

 - 01 GUARD ROOM
 - 02 KITCHEN
 - 03 TOILET
 - 04 FUEL TANK AND DG ROOM
 - 05 BATTERIES ROOM

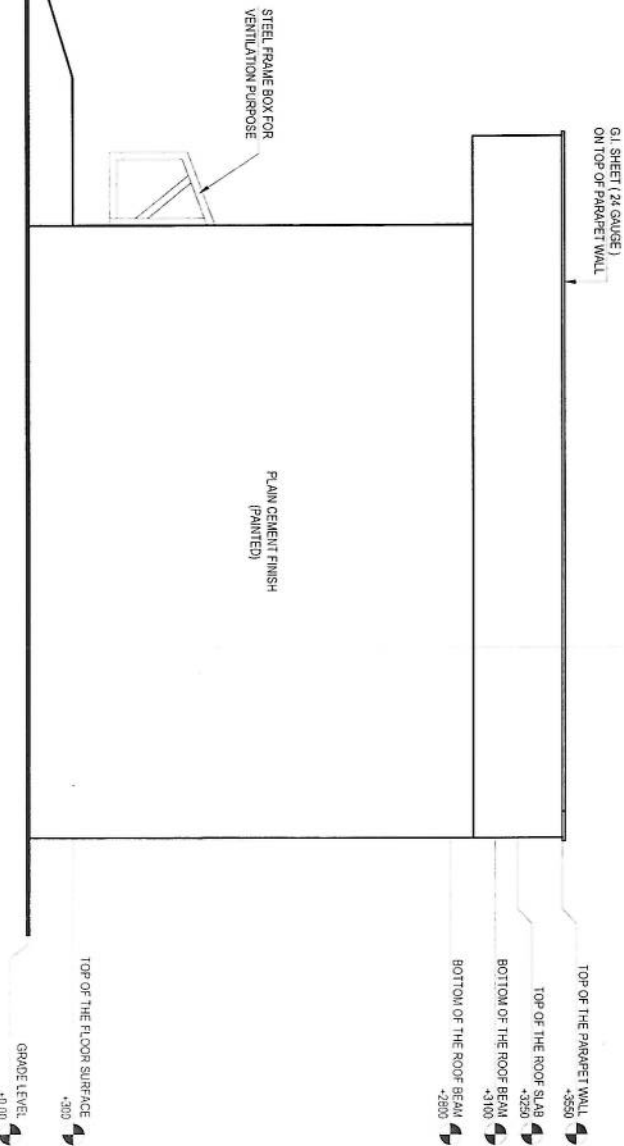
NOTE
1. ALL DIMENSIONS ARE IN MM AND ANGLES IN DEGREES UNLESS OTHERWISE NOTED.

FLOOR PLAN
SCALE: 1:80



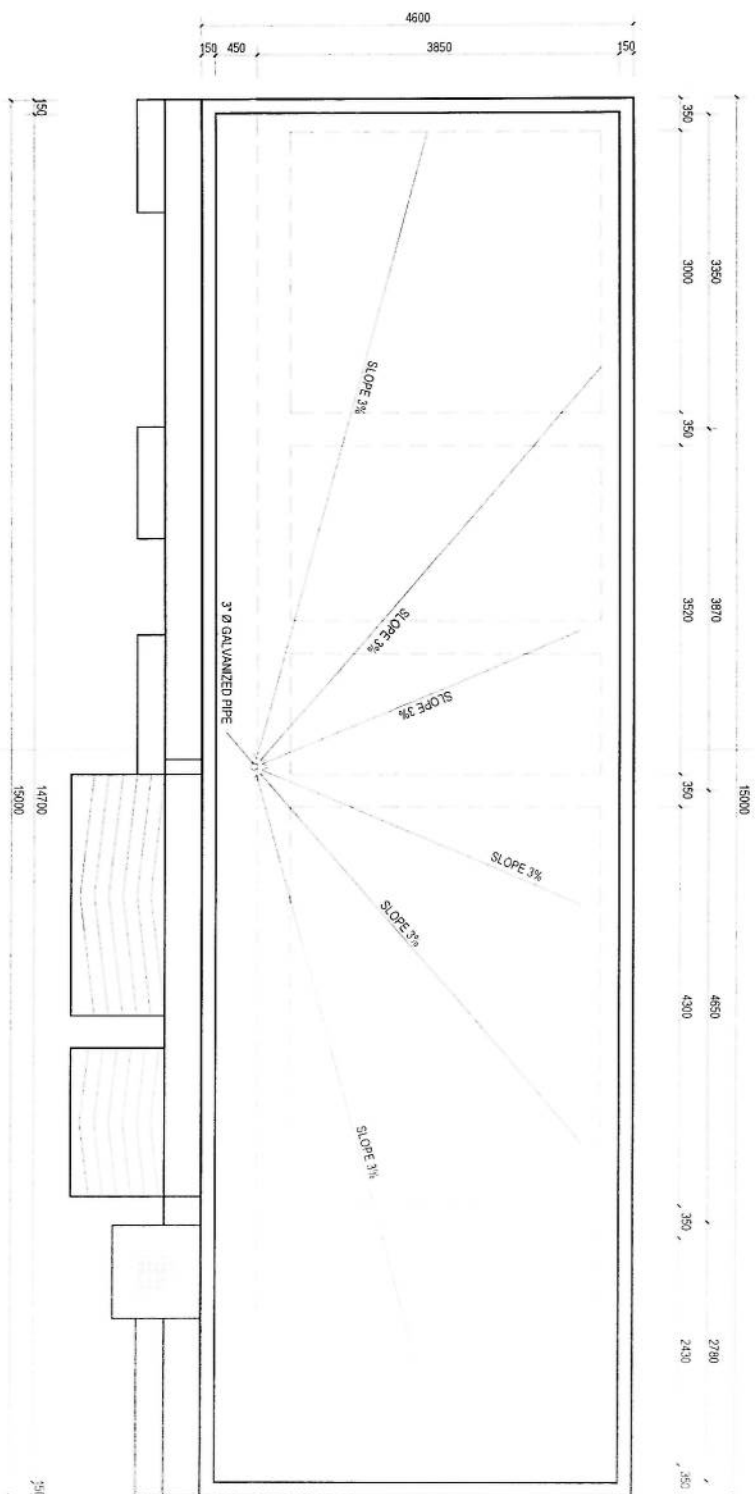


FRONT ELEVATION
SCALE 1:80



RIGHT ELEVATION
SCALE 1:50

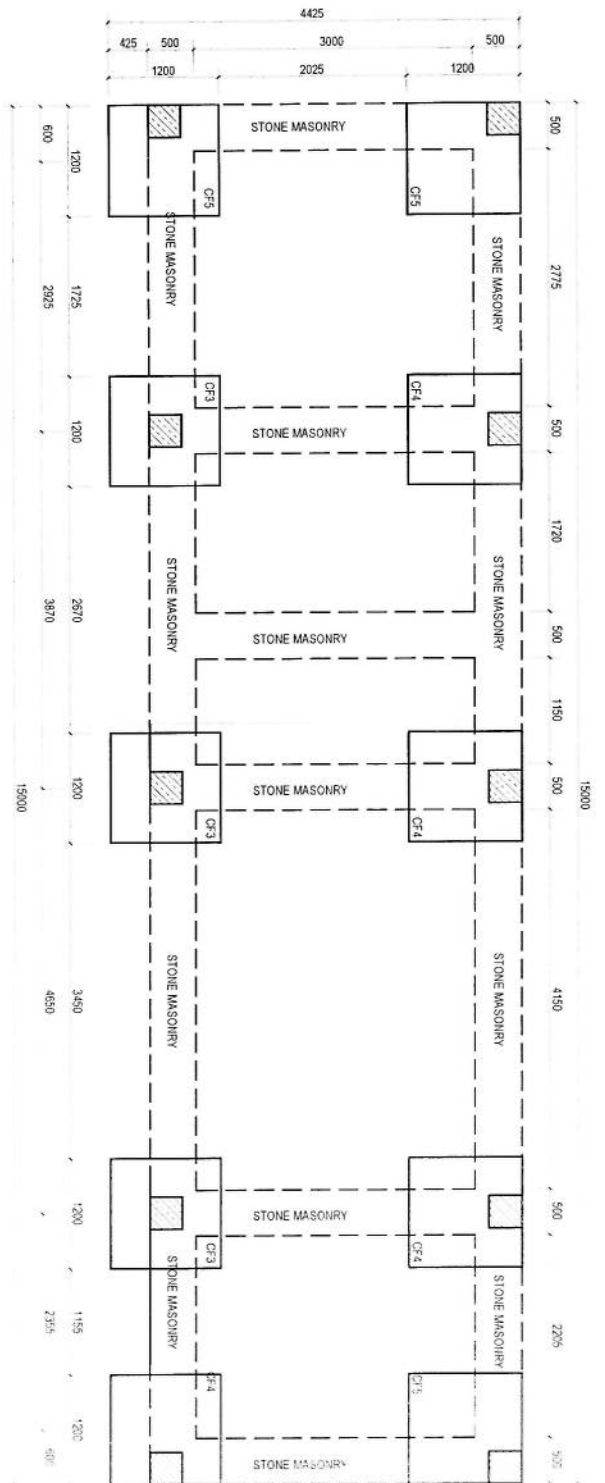
[Handwritten signature]



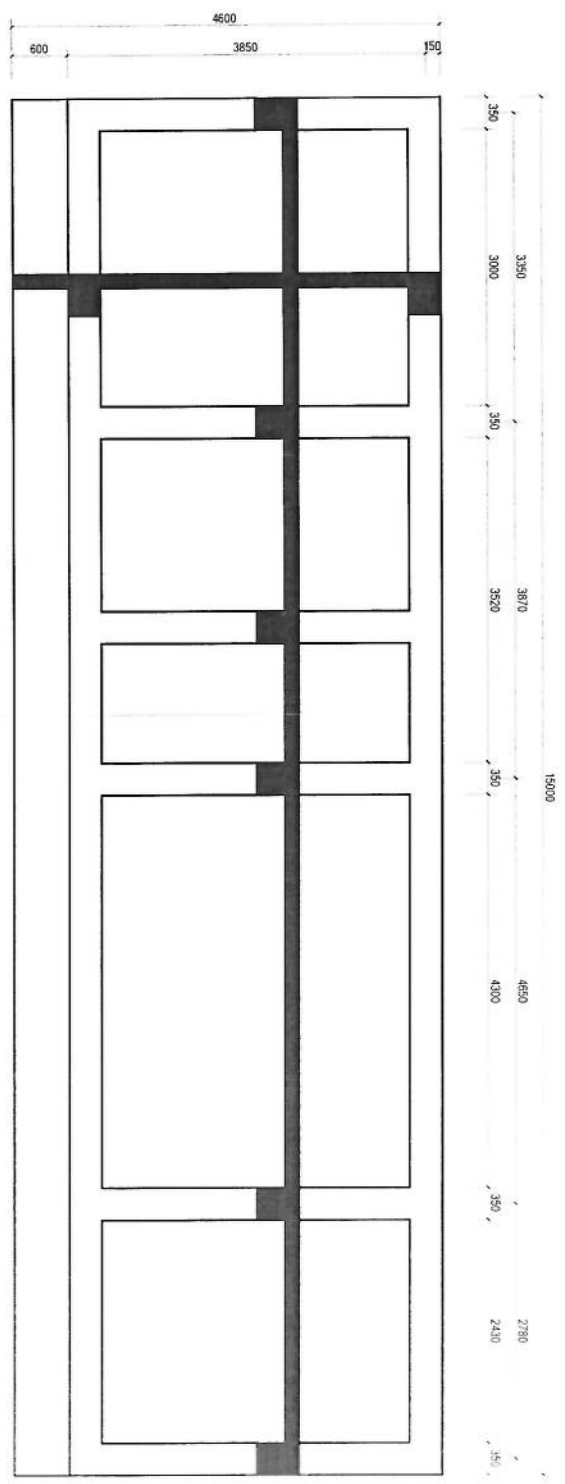
ROOF PLAN
SCALE: 1/8"

- NOTE
1. ALL DIMENSIONS ARE IN MM AND ANGLES IN DEGREES UNLESS OTHERWISE NOTED
 2. ROOF SLOPE 3%

[Handwritten signature]



FOUNDATION PLAN
SCALE: 1:80

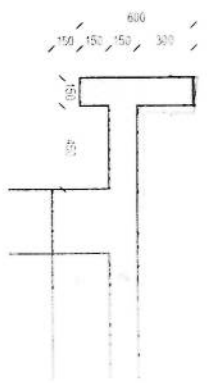


SHUTTERING PLAN
SCALE: 1:80

Handwritten signature/initials in blue ink.

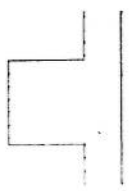
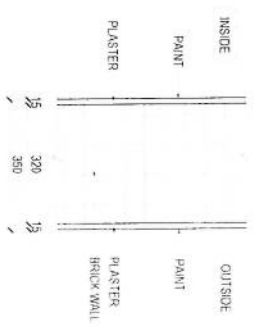
GS SHEET 22 G.A.I.B.

REINFORCED CONCRETE
ROOF SLAB
PLASTER

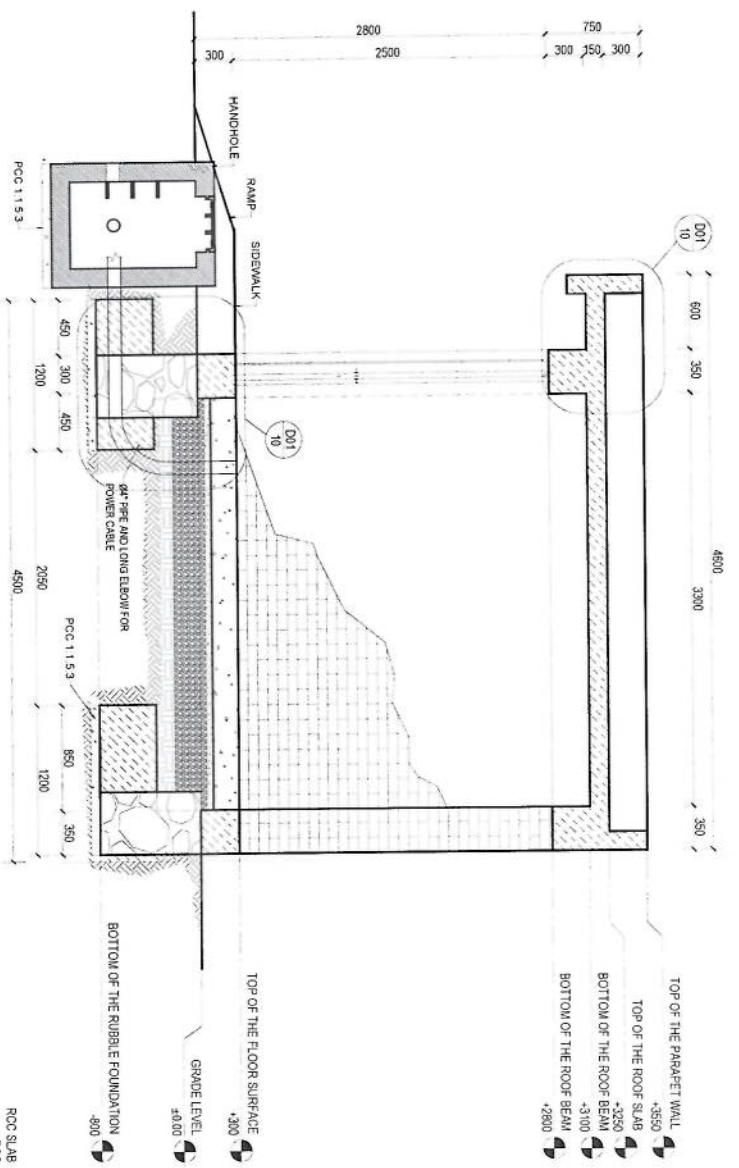


ROOF DETAIL D02
SCALE 1/20

WALL DETAIL
SCALE 1/20



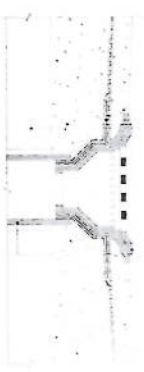
ROOF DETAIL D02
SCALE 1/20



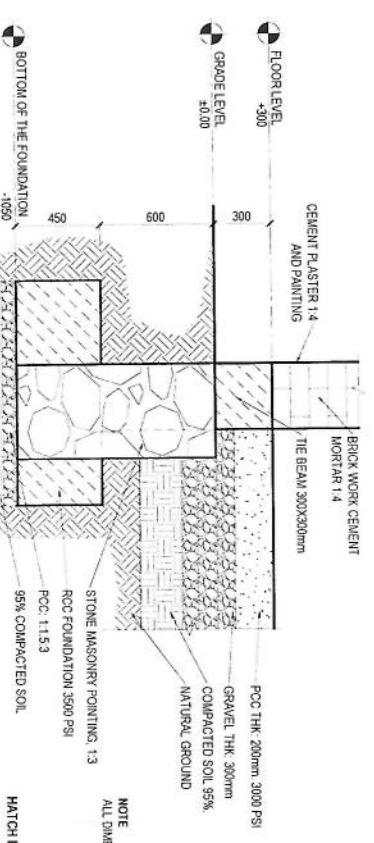
SECTION H-H
SCALE 1/50

ROOF SLAB
PCC
COPPER SHEET
MOISTURE INSULATION
PCC WITH SLOPE 3%
CAP
3" Ø GALVANIZED PIPE

GUTTER PIPE DETAIL
SCALE 1/5

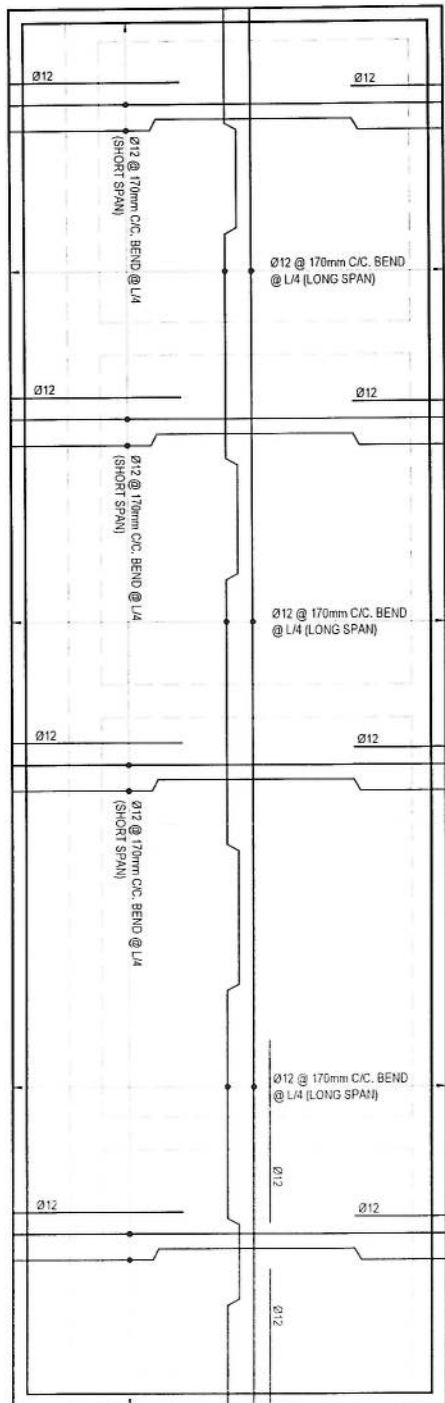


NOTE
ALL DIMENSIONS ARE IN MM AND ANGLES IN DEGREES UNLESS OTHERWISE NOTED

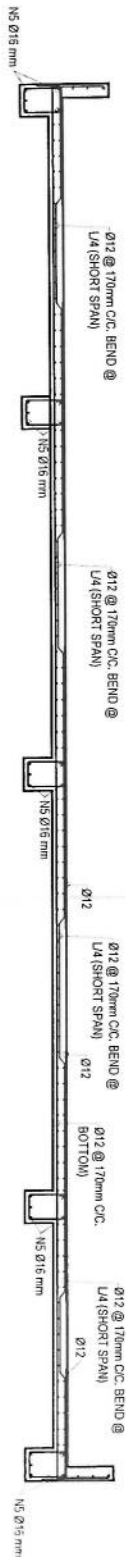


DETAIL D01
SCALE 1/40

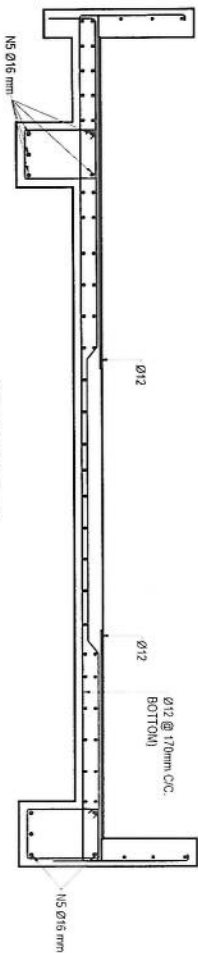
- HATCH LEGEND
- PLAIN CONCRETE CEMENT
 - REINFORCEMENT CONCRETE CEMENT
 - OVERHEAD STRUCTURE
 - BRICK, SECTION
 - BRICK, PLAN
 - ELEVATION
 - REINFORCEMENT COLUMN
 - DOWN



ROOF SLAB REINFORCEMENT PLAN
SCALE 1:80



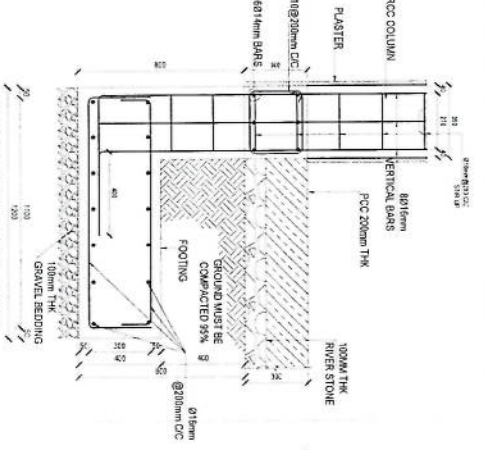
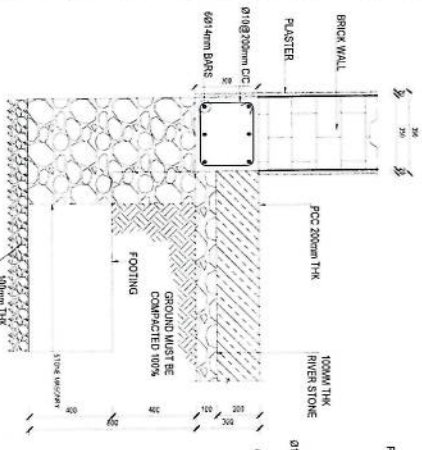
ROOF SLAB SECTION
SCALE 1:80



SECTION G-G
SCALE 1:40

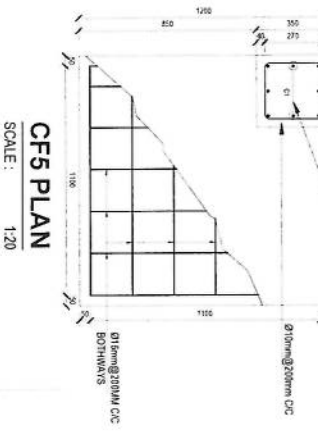
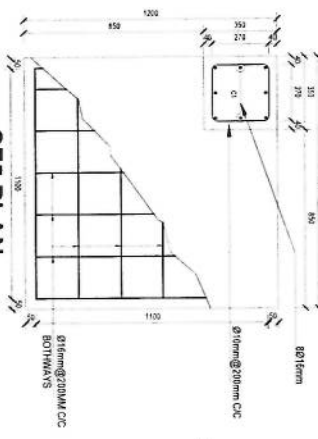
- NOTE**
1. CONCRETE MIX RATIO SHOULD BE SUCH THAT IT SHALL BE PLACED AND COMPACTED WITHOUT SEGREGATION.
 2. MUST BE C-30/37.
 3. DEFLECTED BAR OR GRADE BARS SHALL BE USED FOR REINFORCEMENT.
 4. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 25mm.
 5. VIBRATOR SHALL BE USED TO VIBRATE THE CONCRETE TO OBTAIN DENSE CASTING.
 6. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
 7. APPROXIMATE QUANTITIES.

Handwritten signature



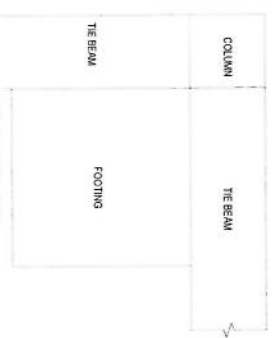
COLUMN FOOTING
SCALE: 1:20

COLUMN FOOTING
SCALE: 1:20



CF5 PLAN
SCALE: 1:20

CF5 PLAN
SCALE: 1:20

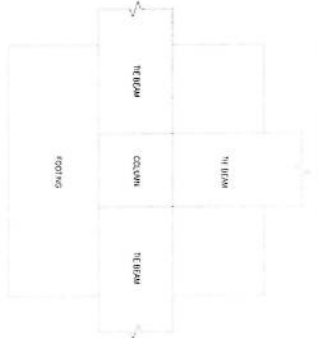


CF5 PLAN
SCALE: 1:20

CF5 PLAN
SCALE: 1:20

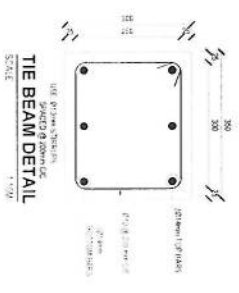
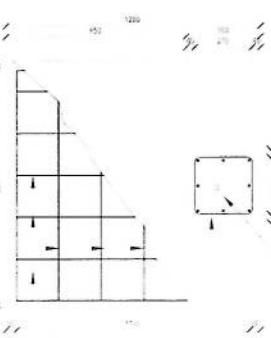
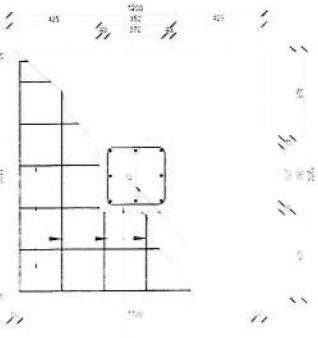
CF3 PLAN
SCALE: 1:20

CF4 PLAN
SCALE: 1:20



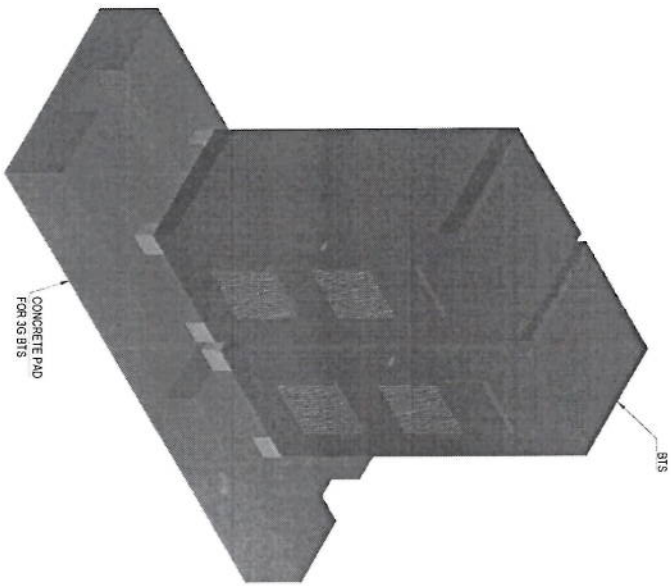
CF3 PLAN
SCALE: 1:20

CF4 PLAN
SCALE: 1:20

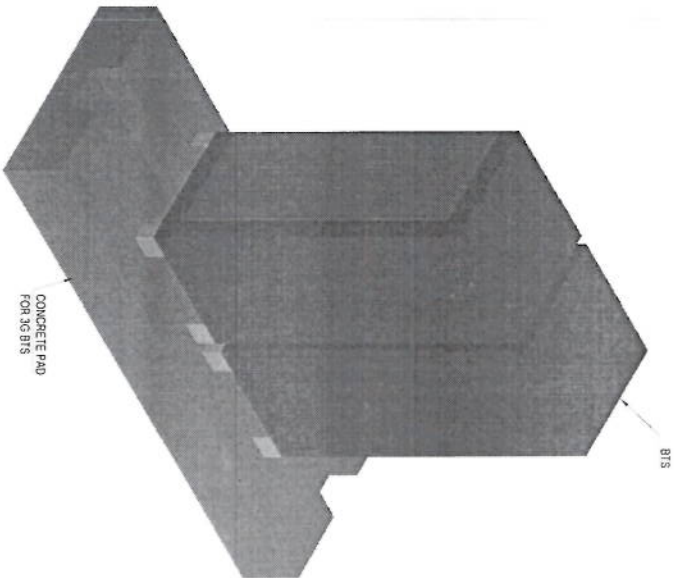


TIE BEAM DETAIL
SCALE: 1:20

Handwritten signature

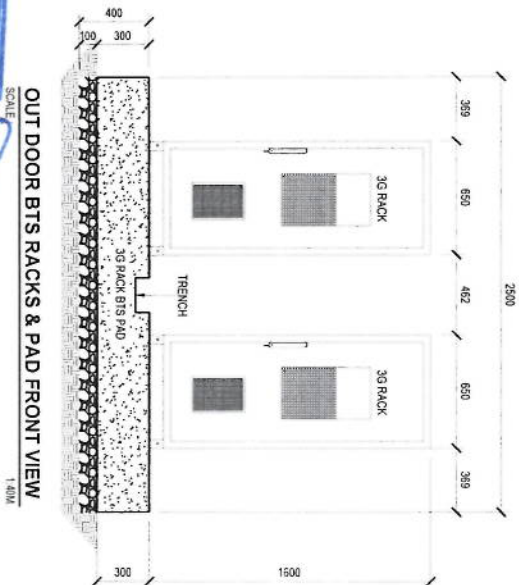
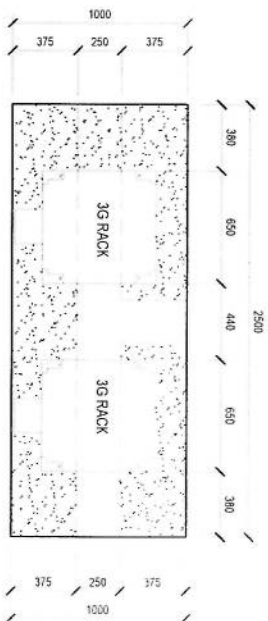
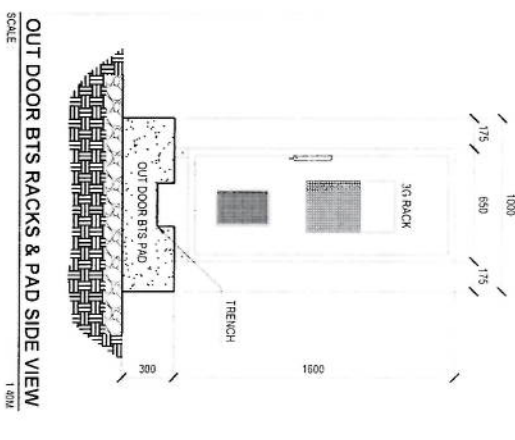
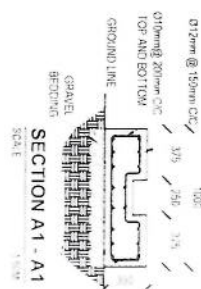
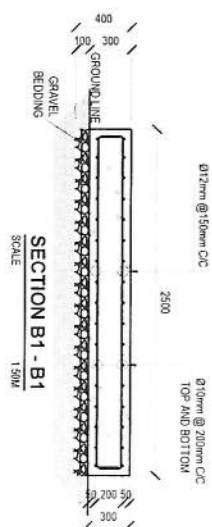
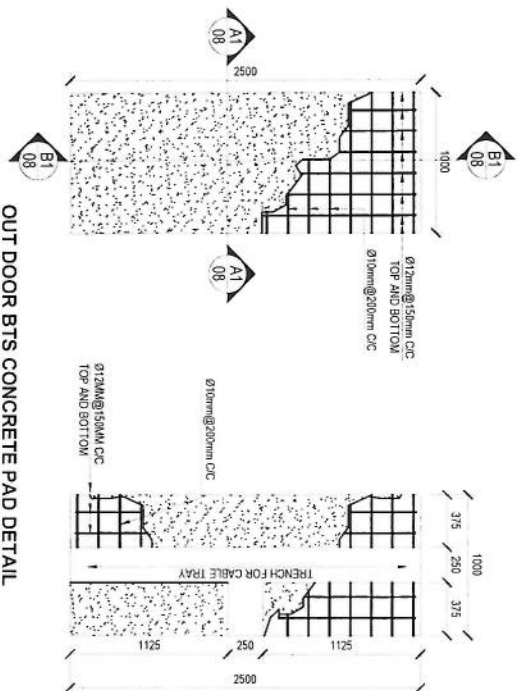


3D VIEW PLAN
SCALE: 1"=1'

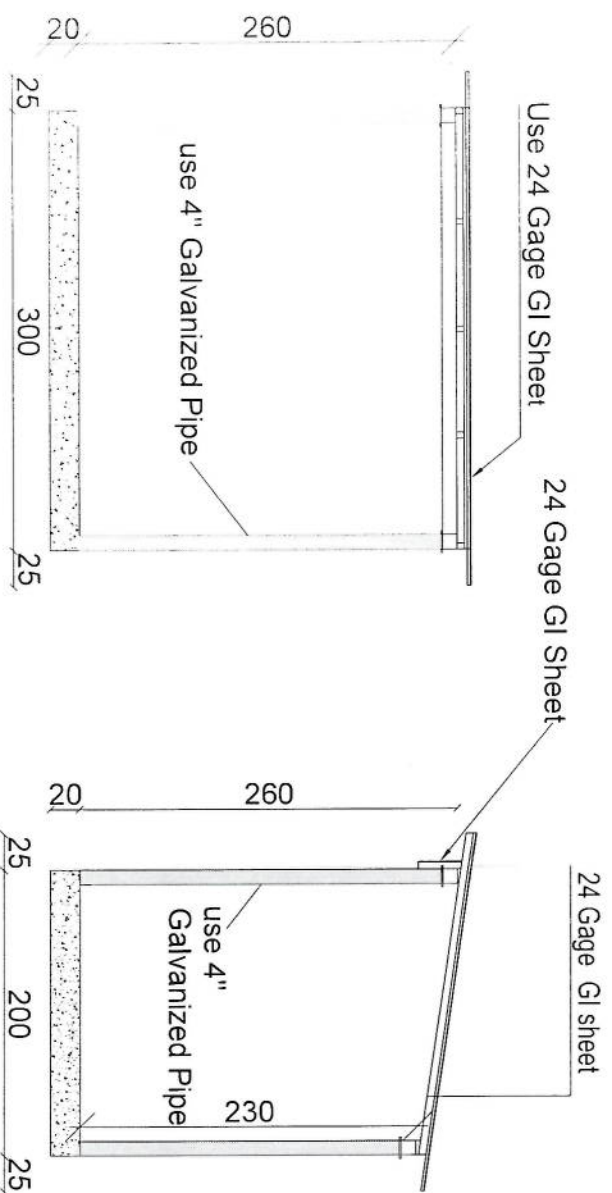


3D VIEW PLAN
SCALE: 1"=1'

Handwritten signature in blue ink.

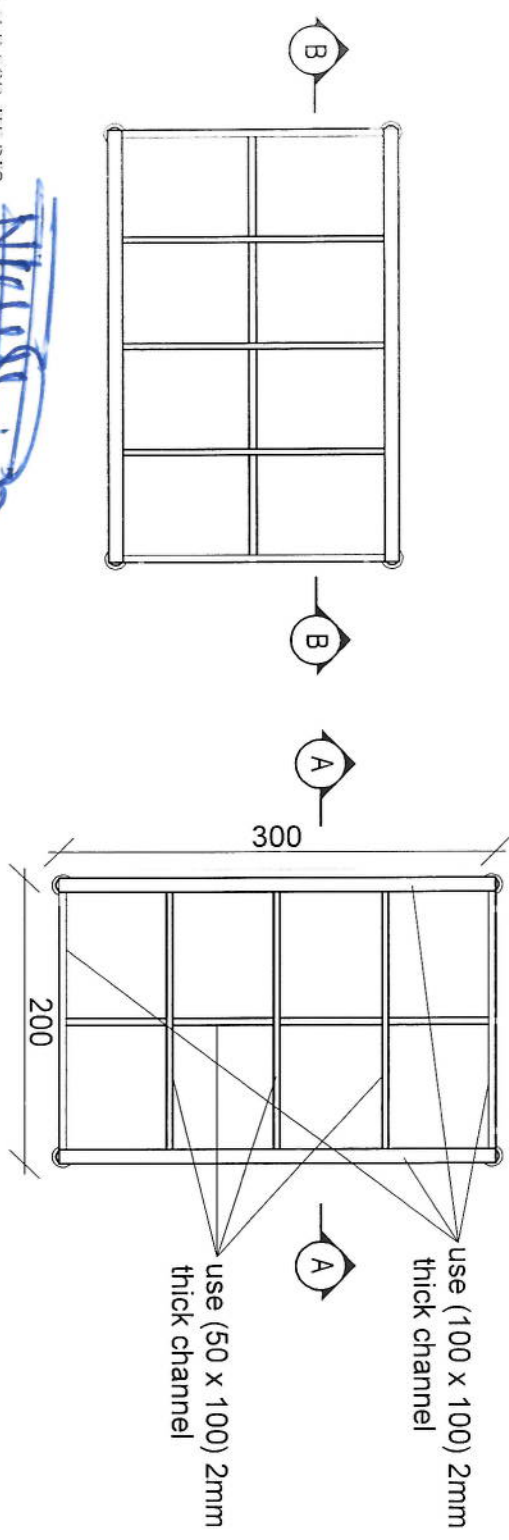


18/11/2018



Section BB

Section AA



SUN SHELTER FOR ZTE BTS

SCALE: 1:50

REVISION RECORDS			
REASON NO	DATE تاریخ	DESCRIPTION توضیحات	

LEGEND:	
CHANGED ROCK	
PCB	

PROJECT TITLE / NO:	GSM SITES

DRAWING TITLE:	SUN SHELTER FOR ZTE BTS

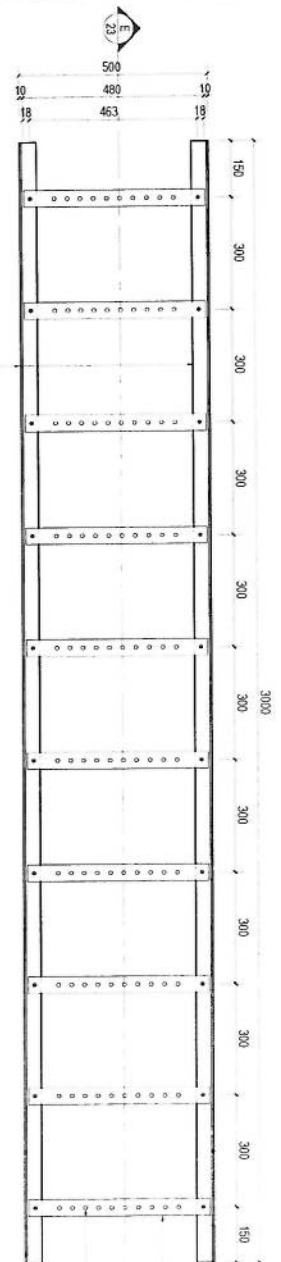
DRAWN BY:	CIVIL TEAM

CHECKED BY:	

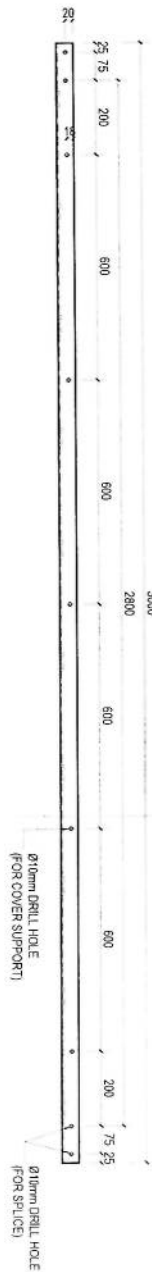
APPROVED BY:	

SCALE:	1:50
ACTUAL DATE:	17/04/2025
ISSUE DATE:	DRG NO: 17

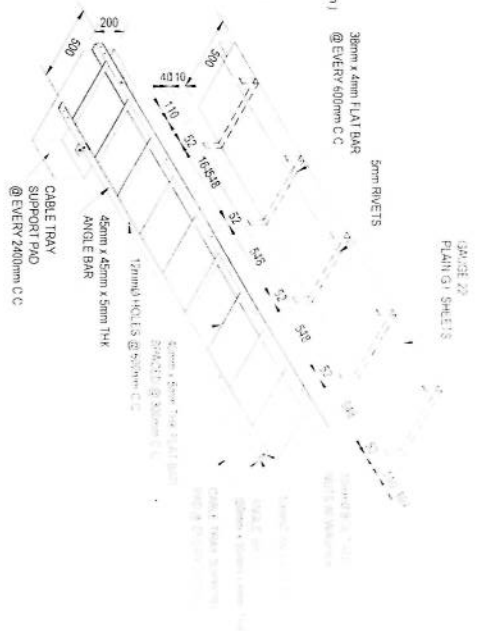
OWNER:	AFGHAN TELECOM



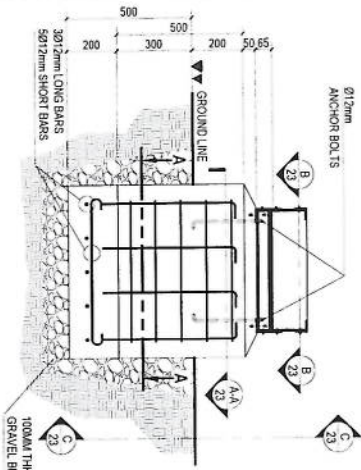
CABLE TRAY FOR BTS
SCALE: 1:20M



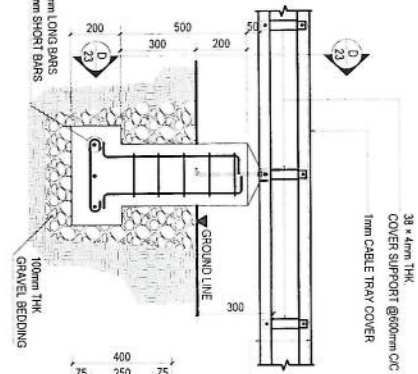
SECTION E-E
SCALE: 1:20M



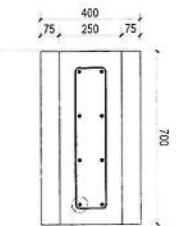
HORIZONTAL CABLE TRAY
ISOMETRIC VIEW
SCALE: 1:20M



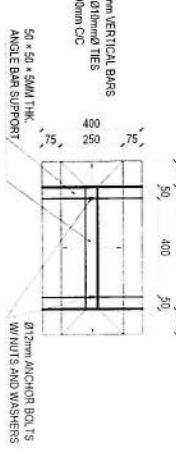
SECTION D-D
SCALE: 1:30M



SECTION C-C
SCALE: 1:30M



SECTION A-A
SCALE: 1:30M

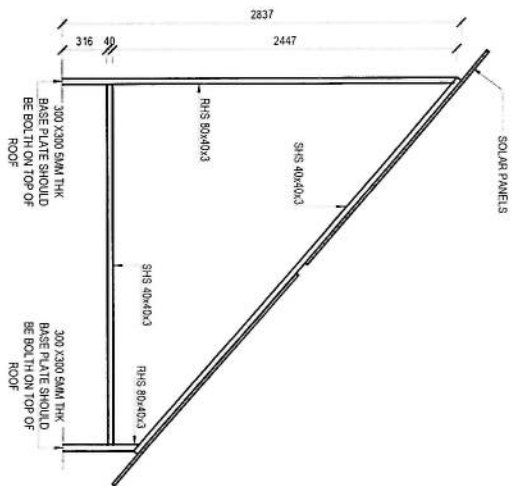


SECTION B-B
SCALE: 1:30M

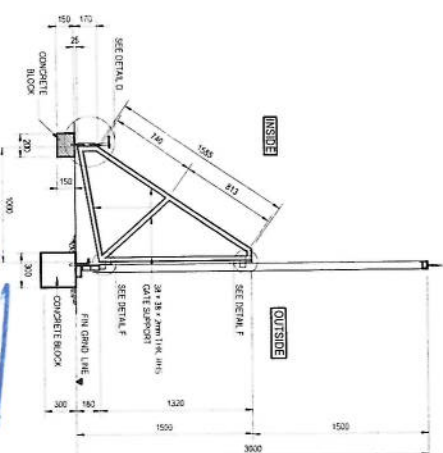


SECTION D-D
SCALE: 1:15M

[Handwritten signature]



[Handwritten signature]

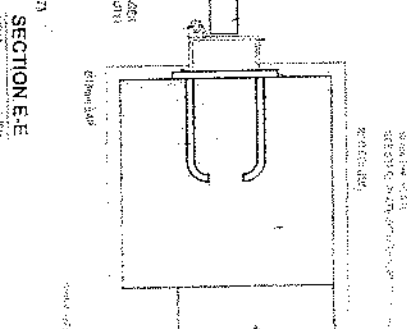


SMALL DOOR HANDLE AND LOCK PHOTOS

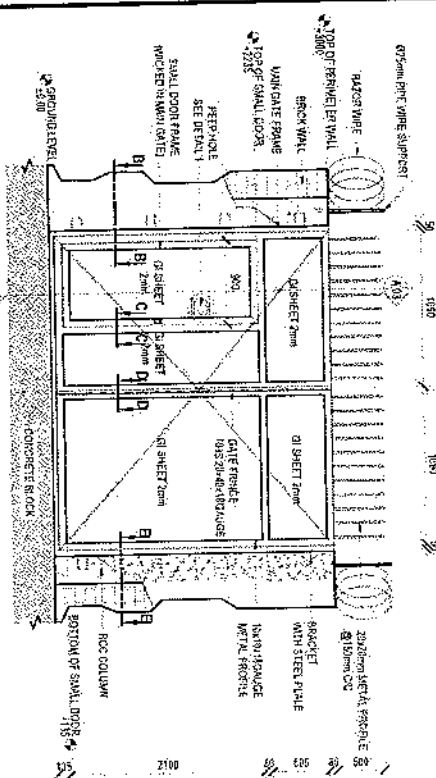
SCALE	NUMBER
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ELEVATION
SCALE 1:5000

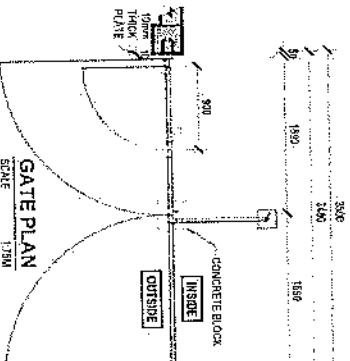
1005



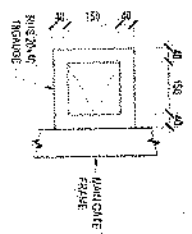
SECTION E-E



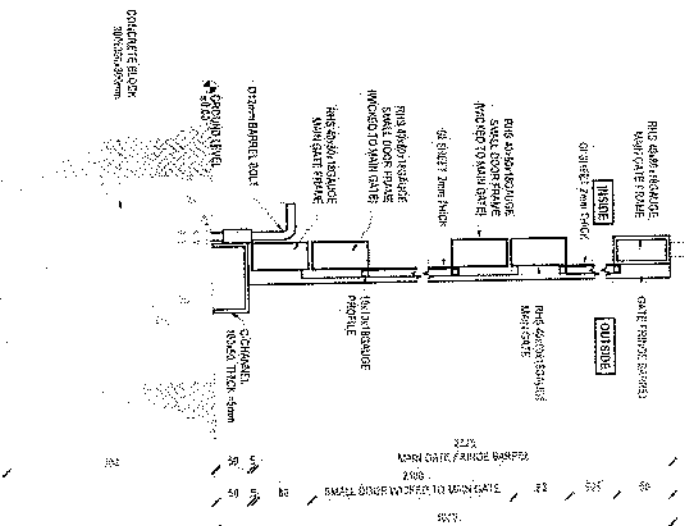
GATE OUTSIDE ELEVATION
SCALE: 1:15M.



GATE PLAN
SCALE 1:75M



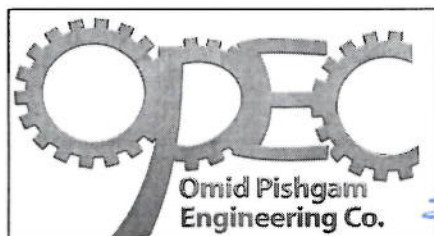
DETAIL 1
SCALE 1:20X

SECTION A-1
SCALE 1"=100'

TOWER TYPE "AK1"

LATTICE Tower:40m

Loading-EPA=10 -Wind speed 160Km/h



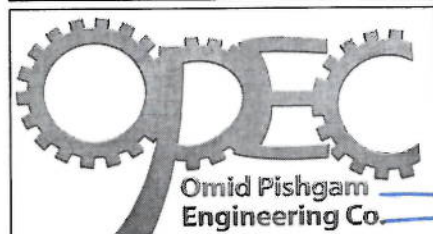
A handwritten signature in blue ink, appearing to be 'M. Pishgam', is written over the bottom right corner of the logo's square frame.

LATTICE Tower:40m

Loading-EPA=10 -Wind speed 160Km/h

APPROVAL DRAWING

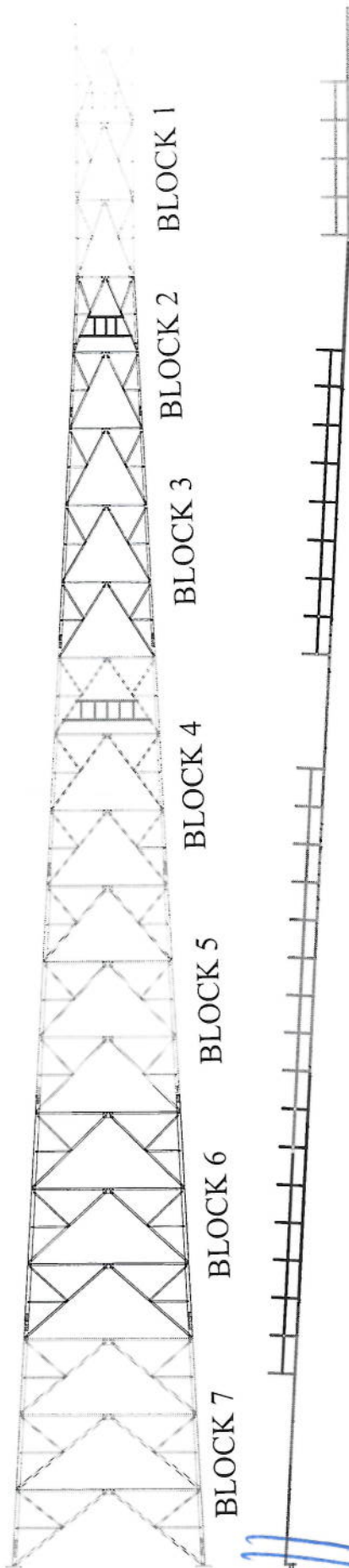
TOWER TYPE "AK1"



TOTAL WEIGHT IN 40 M G.F TOWER		
BLOCK NO.	BLOCK HEIGHT (M)	WEIGHT
BLOCK 1	6	705.96 Kg
BLOCK 2	4	473.02 Kg
BLOCK 3	6	650.17 Kg
BLOCK 4	6	938.12 Kg
BLOCK 5	6	1036.82 Kg
BLOCK 6	6	1267.39 Kg
BLOCK 7	6	1508.92 Kg
LADDER		740.09 Kg
SUPORTER		161.29 Kg
BASE		524.41 Kg
TOTAL		8006.20 Kg

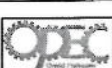
[Handwritten signature]

RED	WHITE	RED	WHITE	RED
-----	-------	-----	-------	-----

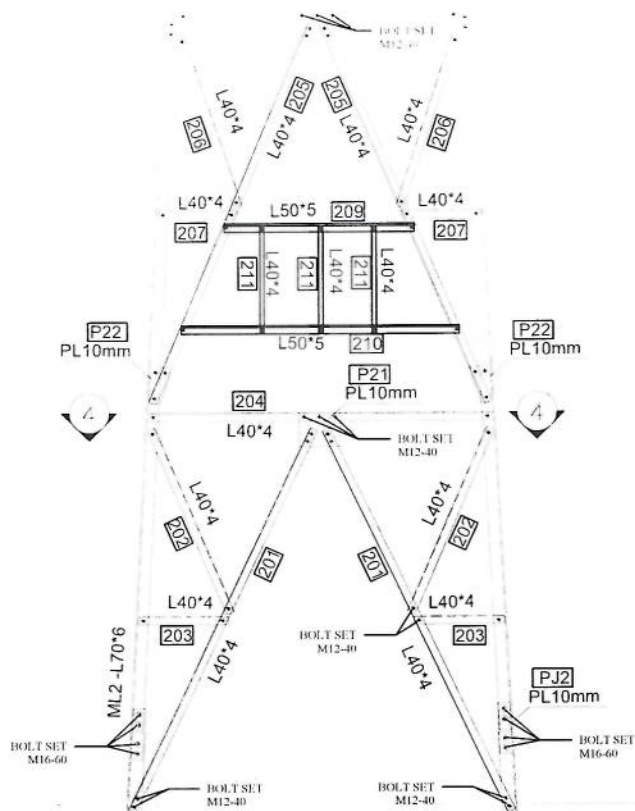


40M TOWER VIEW

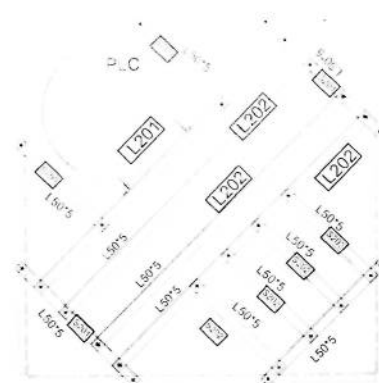
[Handwritten signature in blue ink]

2	FIRST ISSUE	A.CH.	Me To On	D. DEP	A.CH.	---	---
REV	DESCRIPTION	DESIGN	DRAWN	CHECK	APPR	VER	DATE
CLIENT:		AFGHAN TELECOM					
TITLE:		APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4					
CONTRACTOR		SULTAN MASOOM ENGINEERING & LOGISTICS SERVICES					
DESIGN AND MANUFACTURER		DAKALSAZAN KALAN CO.			 		
SCALE:	FORMAT: A1	DESIGN STAGE:	DETAIL DESIGN				
DAKALSAZAN DWG. NO.		REV	SH.	/TOTAL			
--		0	1	OF 20			

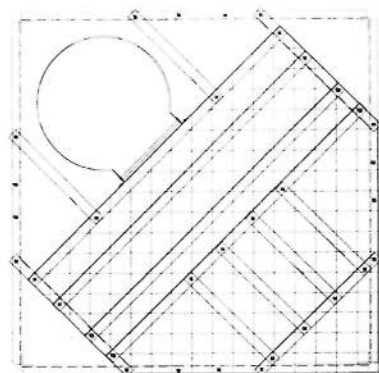
1. ALL BOLT SET IN BRACING ARE M12-40
2. ALL BOLT SET IN MAIN LINES AND JOINT ARE M16-60
3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm



BLOCK 2



SECTION 4-4



SECTION 4-4

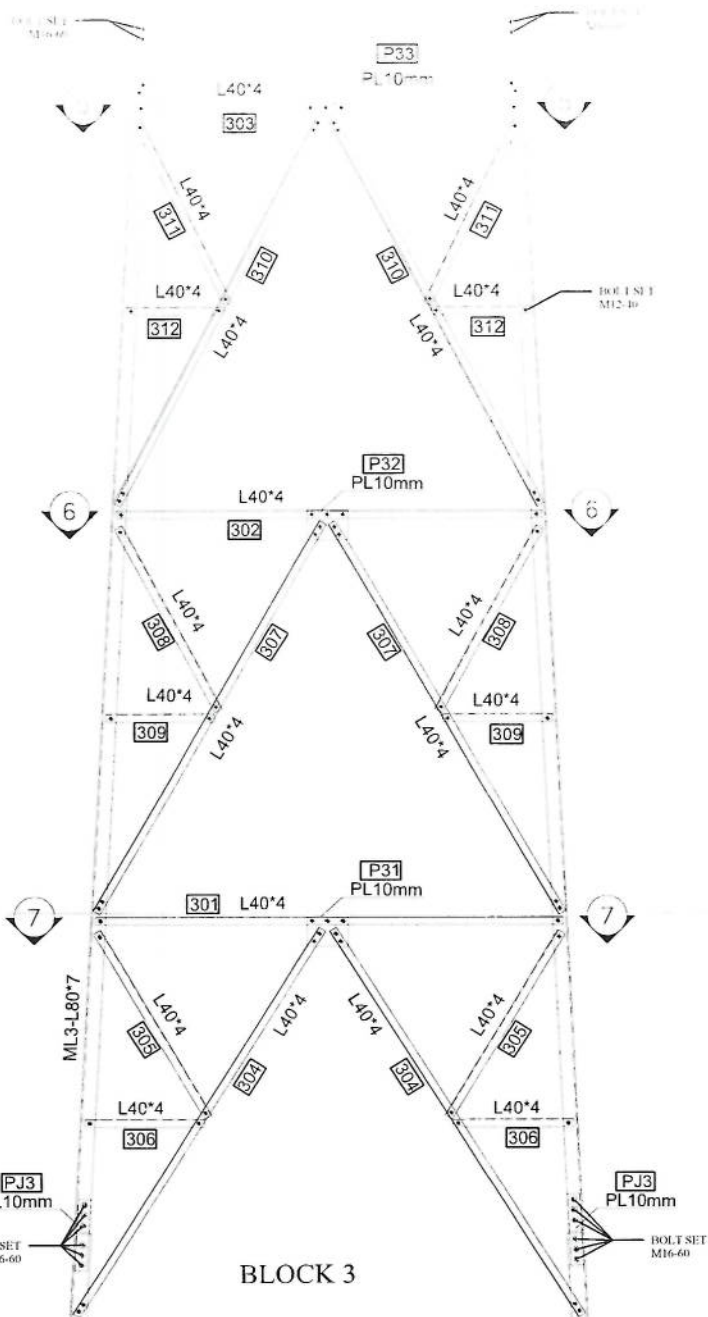
Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL2	ML2	L70X6	4.005	26.0296965	4	104.118786
BL2	201	L 40X4	2.303	5.6692951	8	45.3543608
BL2	202	L 40X4	1.083	2.6660211	8	21.3281688
BL2	203	L 40X4	0.425	1.0462225	8	8.36978
BL2	204	L 40X4	1.69	4.160273	4	16.641092
BL2	205	L 40X4	2.32	5.711144	8	45.689152
BL2	206	L 40X4	1.115	2.7447955	8	21.958364
BL2	207	L 40X4	0.37	0.910829	8	7.286632
BL2	209	L50X5	0.96	3.688224	4	14.752896
BL2	210	L50X5	1.38	5.301822	4	21.207288
BL2	211	L 40X4	0.585	1.4400945	12	17.281134
BL2	S 201	L50X5	0.877	3.3693463	3	10.1080389
BL2	S 202	L50X5	0.519	1.9939461	4	7.9757844
BL2	S 203	L50X5	0.579	2.2244601	2	4.4489202
BL2	L 201	L50X5	1.723	6.6195937	1	6.6195937
BL2	L 202	L50X5	1.723	6.6195937	3	19.8587811
BL2	Washer	PL100X40X8	1	0.2575	10	2.575
BL2	Bolt Set	M16-60	1	0.16274	32	5.20768
BL2	Bolt Set	M12-40	1	0.06798	304	20.66592
BL2	P 21	PL240*160*10	1	3.1003	4	12.4012
BL2	P 22	PL119*110*10	1	1.0609	8	8.4872
BL2	PJ2	PL320*60*10	1	1.5553	8	12.4424
BL2	MJ2	L 60X6	0.32	1.769952	4	7.079808
BL2	MESH	HEVY MESH	2.5	28.325	1	28.325
BL2	WASHER		1	0.008446	336	2.837856
TOTAL WEIGHT						473.02 Kg

PROFILES GRADE LEGEND

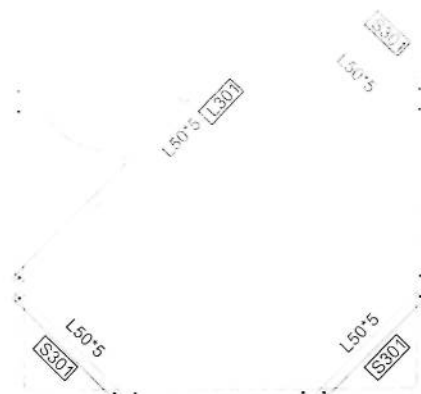
- 1-L =ST37
- 2-ML =ST50
- 3-HT =ST52
- 4-ALL JOINT PLATES ARE ST52

AFGHAN TELECOM		APPROVAL DRAWING	
FOR TOWER TYPE 40-160-EPA10(AK1-40m)		PANEL 4	
CONTRACTOR		SULTAN MANSOOR	
DESIGN AND MANUFACTURER		DAKALSAZAN KALAN CO.	
DAKALSAZAN DWS NO.		REV	
DATE		20	

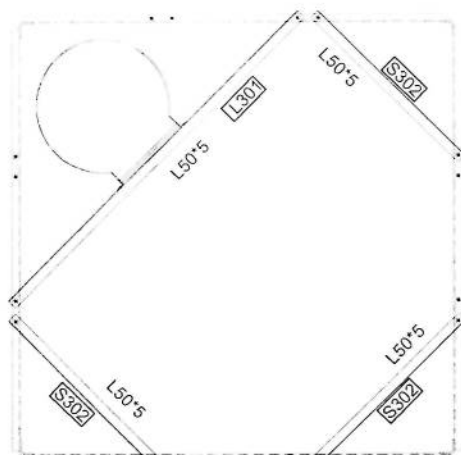
NOTES:
 1. ALL BOLT SET IN BRACING ARE M12-40
 2. ALL BOLT SET IN MAIN L248 AND BENT ARE M16-60
 3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm



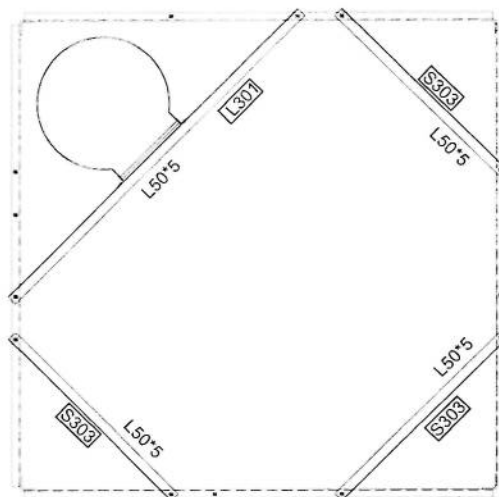
BLOCK 3



SECTION 5-5



SECTION 6-6



SECTION 7-7

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL3	ML3	L80X7	6	51.9738	4	207.8952
BL3	301	L40X4	2.336	5.7505312	4	23.0021248
BL3	302	L40X4	2.122	5.2237274	4	20.8949096
BL3	303	L40X4	1.925	4.7387725	4	18.95509
BL3	304	L40X4	2.263	5.5708271	8	44.5666168
BL3	305	L40X4	1.108	2.7275636	8	21.8205088
BL3	306	L40X4	0.573	1.4105541	8	11.2844328
BL3	307	L40X4	2.23	5.489591	8	43.916728
BL3	308	L40X4	1.086	2.6734062	8	21.3872496
BL3	309	L40X4	0.526	1.2948542	8	10.3588336
BL3	310	L40X4	2.185	5.3788145	8	43.030516
BL3	311	L40X4	1.061	2.6118637	8	20.8949096
BL3	312	L40X4	0.478	1.1766926	8	9.4135408
BL3	PJ3	PL320*80*10	1	2.0703	8	16.5624
BL3	MU3	L70X6	0.32	2.079776	4	8.319104
BL3	P31	PL240*160*10	1	3.1003	4	12.4012
BL3	P32	PL240*160*10	1	3.1003	4	12.4012
BL3	P33	PL240*160*10	1	3.1003	4	12.4012
BL3	L301	L50X5	1.993	7.6569067	3	22.9707201
BL3	S301	L50X5	0.717	2.7546423	3	8.2639269
BL3	S302	L50X5	1	3.8419	3	11.5257
BL3	S303	L50X5	1.31	5.032889	3	15.098667
BL3	Washer	PL100X40X8	1	0.2575	10	2.575
BL3	Bolt Set	M16-60	1	0.16274	48	7.81152
BL3	Bolt Set	M12-40	1	0.06798	288	19.57824
BL3	WASHER		1	0.008446	336	2.837856
				TOTAL WEIGHT		650.17 Kg

PROJECT TITLE		AFGHAN TELECOM	
DESIGNER	DESIGN	CHECK	DATE
APPROVAL DRAWING			
FOR TOWER TYPE 40-160-EPA10(AK1-40m)			
PANEL 4			
CONTRACTOR		SULTAN MISOOM	
DESIGN AND MANUFACTURER		DAKALSAZAN KALAN CO.	
SCALE	FORMAT	DESIGN STAGE	DRAWING
DAKALSAZAN	DAKALSAZAN	REV	DATE
		0	10/10/20

ALL BOLT SET IN BRACING ARE M12-40
ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
ALL PLATE AND JOINT PLATE ARE PLATE 10mm



1-L =ST37
2-ML =ST50
3-HT =ST52
4-ALL JOINT PLATES ARE ST52

	FIRST ISSUE	ACTION TAKEN TO CORRECT	DATE	
REV.	DESCRIPTION	REASON FOR CHANGE	DATE	BY
C. E. N.				

AFGHAN TELECOM



TITLE:

APPROVAL DRAWING

FOR TOWER TYPE 40-160-EPA10(AK1-40m)

PANEL 4

CONTRACTOR:

SULTAN MANSOOR
THE ARCHITECT • DESIGNER • ENGINEER

DESIGN AND MANUFACTURER:

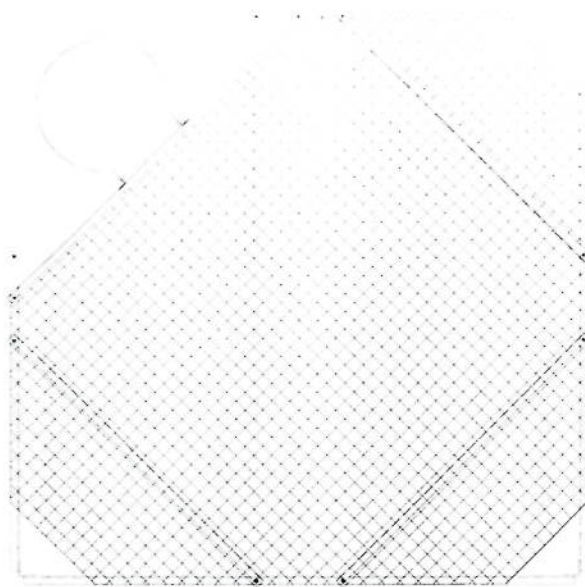
BAKALSAZAN KALAN CO.



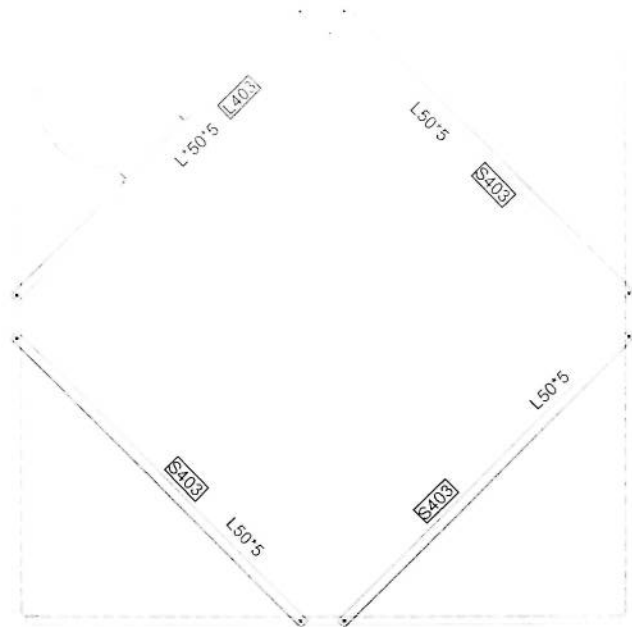


SCALE	FORMAT	DESIGN STAGE	DETAIL	DESIGN
BAKA LAZAN	AG NO			

REV.
DATE
BY



PLATFORM +22m

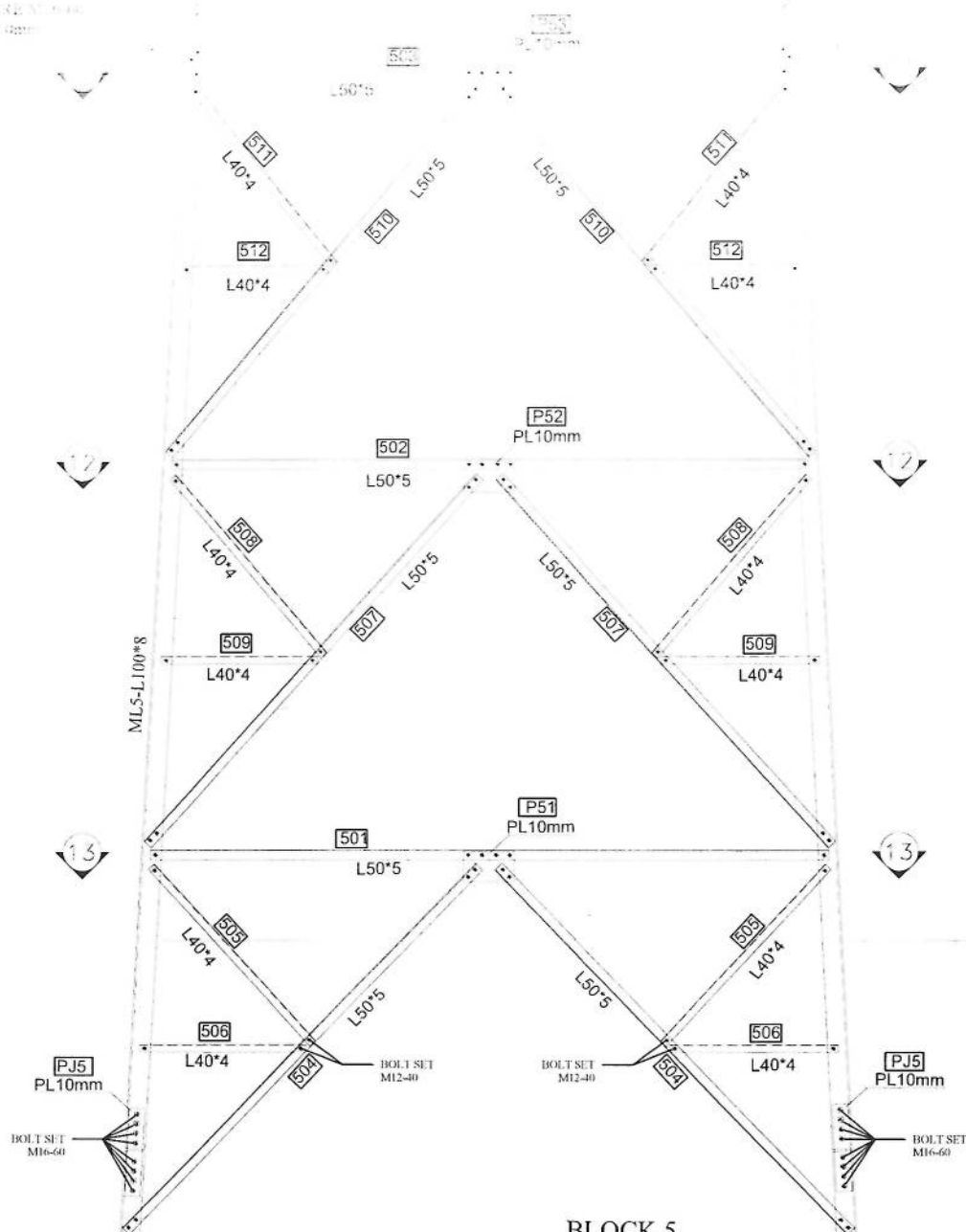


SECTION 10-10

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL4	ML4	L80X7	6.005	52.0171115	4	208.068446
BL4	401	L40X4	2.955	7.2743235	4	29.097294
BL4	402	L40X4	2.75	6.769675	4	27.0787
BL4	403	L40X4	2.534	6.2379478	4	24.9517912
BL4	404	L40X4	2.444	6.0163948	8	48.1311584
BL4	405	L40X4	1.185	2.9171145	8	23.336916
BL4	406	L40X4	0.71	1.747807	8	13.982456
BL4	407	L40X4	2.38	5.858846	8	46.870768
BL4	408	L40X4	1.158	2.8506486	8	22.8051888
BL4	409	L40X4	0.664	1.6345688	8	13.0765504
BL4	410	L40X4	2.321	5.7136057	8	45.7088456
BL4	411	L40X4	1.132	2.7866444	8	22.2931552
BL4	412	L40X4	0.617	1.5188689	8	12.1509512
BL4	413	L40X4	0.545	1.3416265	20	26.83253
BL4	414	L50X5	2.293	8.8094767	4	35.2379068
BL4	415	L50X5	1.59	6.108621	4	24.434484
BL4	L 401	L50X5	1.995	7.6645905	1	7.6645905
BL4	S401	L50X5	1.519	5.8358461	3	17.5075383
BL4	S402	L50X5	1.7	6.53123	3	19.59369
BL4	S403	L50X5	1.986	7.6300134	3	22.8900402
BL4	L 402	L50X5	1.986	7.6300134	1	7.6300134
BL4	L 403	L50X5	1.986	7.6300134	1	7.6300134
BL4	S4	L50X5	1.387	5.3287153	4	21.3148612
BL4	S44	L50X5	0.61	2.343559	2	4.687118
BL4	S41	L50X5	0.62	2.381978	2	4.763956
BL4	S43	L50X5	0.467	1.7941673	4	7.1766692
BL4	P 41	PL300*200*10	1	4.8513	4	19.4052
BL4	P 42	PL300*200*10	1	4.8513	4	19.4052
BL4	P 43	PL300*200*10	1	4.8513	4	19.4052
BL4	MU4	L70X6	0.42	2.729706	4	10.918824
BL4	PJ 4	PL420*80*10	1	2.7192	8	21.7536
BL4	Bolt Set	M16-60	1	0.16274	64	10.41536
BL4	Bolt Set	M12-40	1	0.06798	372	25.28856
BL4	Washer	PL100X40X8	1	0.2575	20	5.15
BL4	MESH	HEVY MESH	5.1	57.783	1	57.783
BL4	WASHER		1	0.008446	436	3.682456
					TOTAL WEIGHT	938.12 Kg

AFGHAN TELECOM		APPROVAL DRAWING	
FOR TOWER TYPE 40-160-EPA10(AK1-40m)		PANEL 4	
CONTRACTOR		SULTAN MANSOOR	
DESIGN AND MANUFACTURER		DAKALSAZAN KALAN CO.	
SCALE		FORMAT A1	
DESIGN STAGE		DETAIL DESIGN	
REVISION		REV. 0	
DATE		2024	

NOTE:
1. ALL DIMENSIONS IN MILLIMETERS
2. ALL DIMENSIONS IN MAIN LIGAS AND PLATES ARE IN MILLIMETERS
3. ALL PLATES AND CONNECTION PLATES ARE PLATE 10mm



BLOCK 5

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL5	ML5	L100X8	6.005	74.592909	4	298.371636
BL5	501	L50X5	3.588	13.7847372	4	55.1389488
BL5	502	L50X5	3.382	12.9933058	4	51.9732232
BL5	503	L50X5	3.177	12.2057163	4	48.8228652
BL5	504	L50X5	2.648	10.1733512	8	81.3868096
BL5	505	L40X4	1.24	3.052508	8	24.420064
BL5	506	L40X4	0.818	2.0136706	8	16.1093648
BL5	507	L50X5	2.577	9.9005763	8	79.2046104
BL5	508	L40X4	1.208	2.9737336	8	23.7898688
BL5	509	L40X4	0.771	1.8979707	8	15.1837656
BL5	510	L50X5	2.514	9.6585366	8	77.2682928
BL5	511	L40X4	1.177	2.8974209	8	23.1793672
BL5	512	L40X4	0.724	1.7822708	8	14.2581664
BL5	L503	L60X5	1.98	9.197694	3	27.593082
BL5	S 503	L60X5	1.98	9.197694	9	82.779246
BL5	P51	PL260*180*10	1	3.7801	4	15.1204
BL5	P52	PL260*180*10	1	3.7801	4	15.1204
BL5	P 53	PL260*180*10	1	3.7801	4	15.1204
BL5	Bolt Set	M16-60	1	0.16274	64	10.41536
BL5	Bolt Set	M12-40	1	0.06798	288	19.57824
BL5	MJ5	L80X7	0.42	3.638166	4	14.552664
BL5	PJ5	PL420*90*10	1	3.0591	8	24.4728
BL5	Washer		1	0.008446	350	2.9561
TOTAL WEIGHT						1036.82 Kg

AFGHAN TELECOM

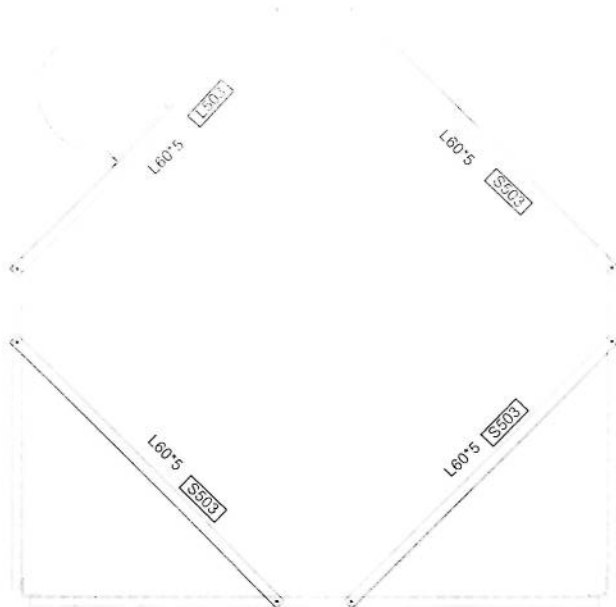
APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

CONTRACTOR: **SULTAN MANSOOR**

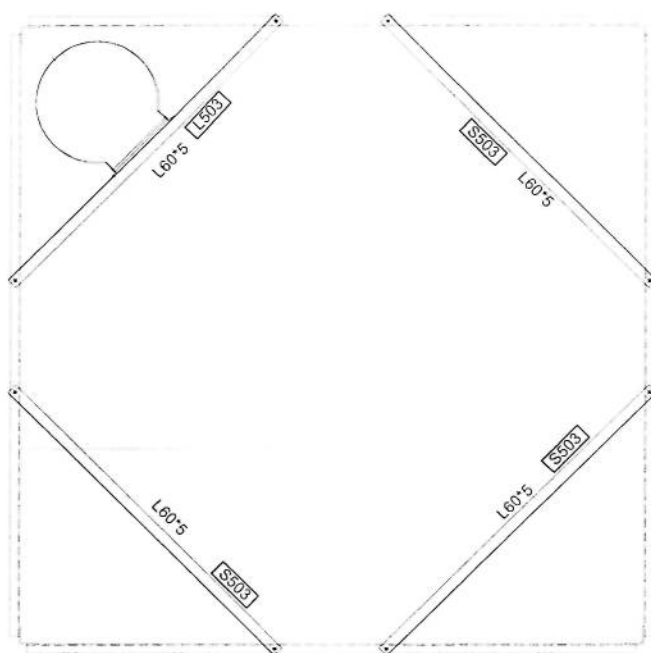
DESIGN AND MANUFACTURER: **DAKALSAZAN KALAN CO.**

SCALE: 1:100

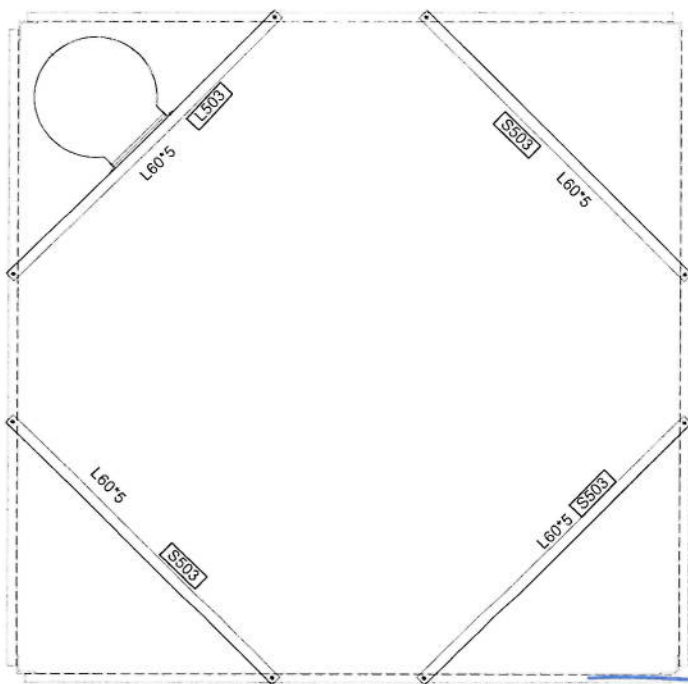
DATE: 01.09.20



SECTION 11-11



SECTION 12-12

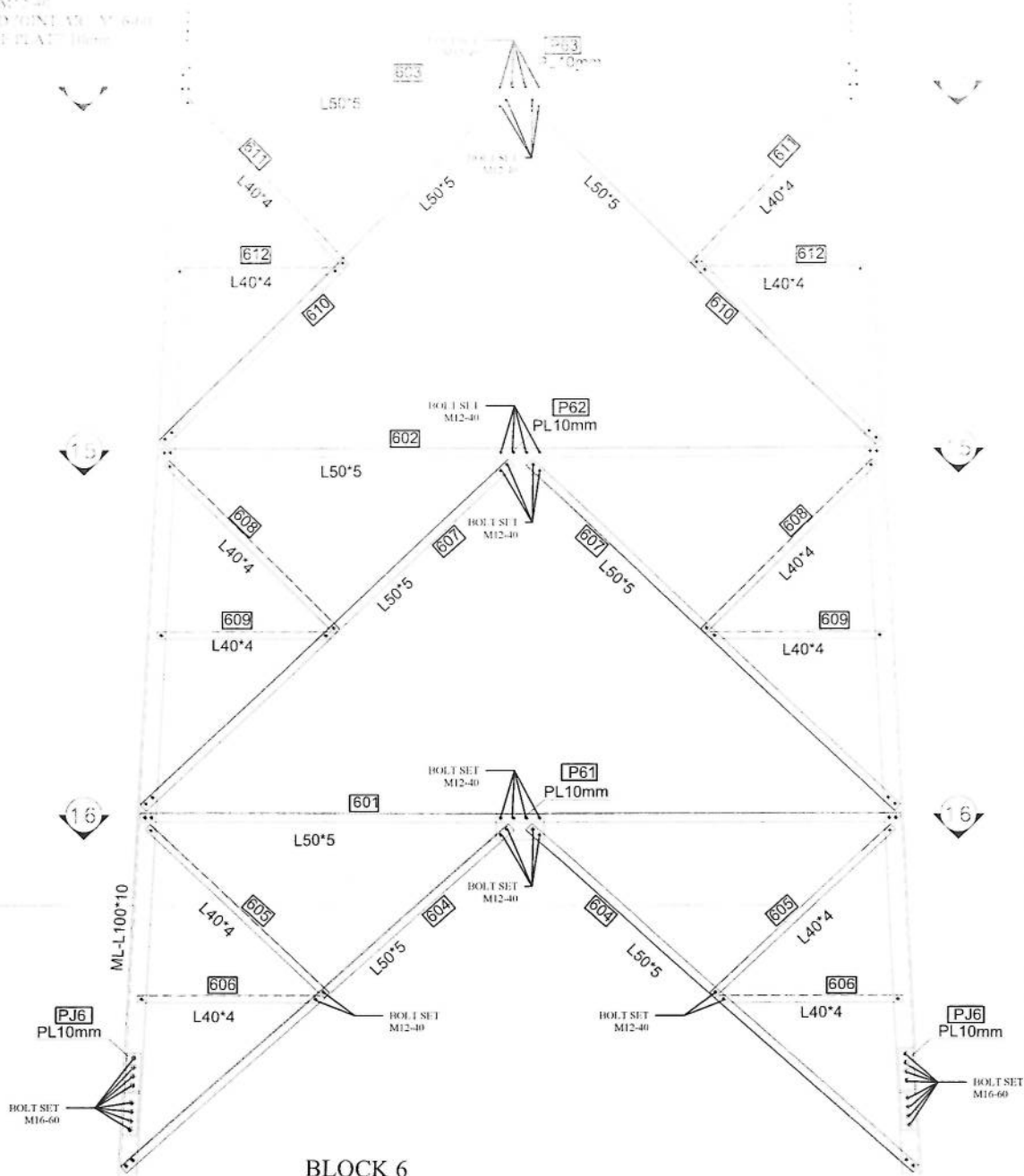


SECTION 13-13

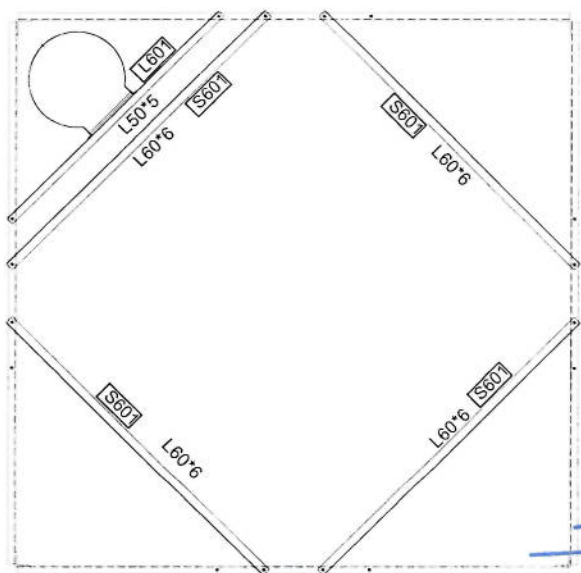
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APPROVAL		APPROVAL		APPROVAL	
DESIGN	CHECK	DESIGN	CHECK	DESIGN	CHECK
DATE	DATE	DATE	DATE	DATE	DATE
AFGHAN TELECOM					
APPROVAL DRAWING					
FOR TOWER TYPE 40-160-EPA10(AK1-40m)					
PANEL 4					
CONTRACTOR					
SULTAN MISOOM					
DESIGN AND MANUFACTURER					
DAKALSAZAN KALAN CO.					
SK					
OPEC					
DATE	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE

NOTES:
 1. ALL DIMENSIONS ARE IN METERS
 2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 3. ALL PLATES AND JOINTS ARE PLATE 10mm



BLOCK 6

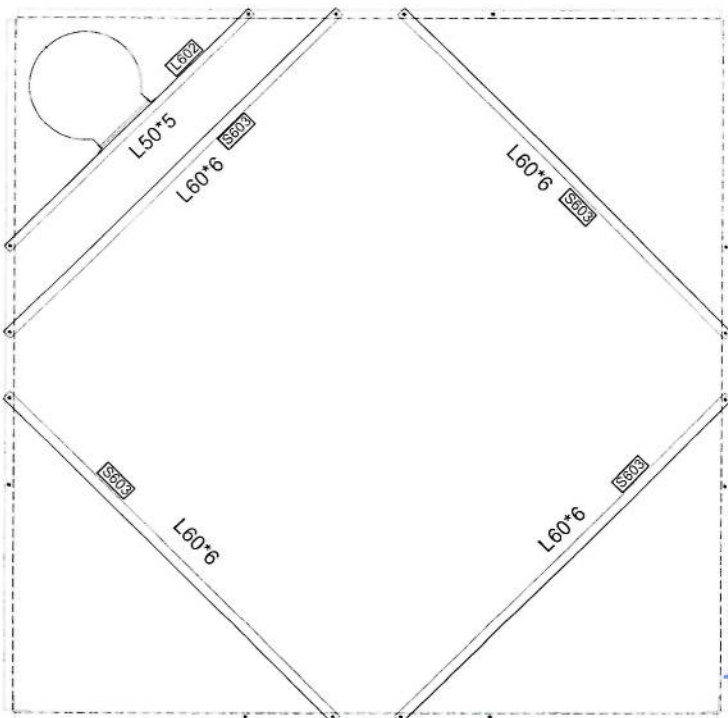


SECTION 14-14

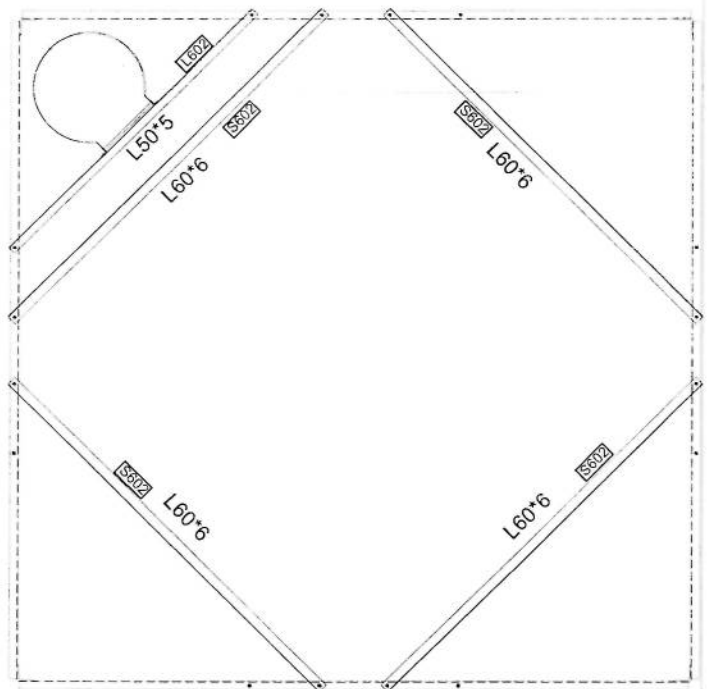
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2	REV	DESCRIPTION	DATE
1	APPROVAL	2010/01/01	
CLIENT: AFGHAN TELECOM			
FILE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4			
CONTRACTOR: SULTAN MANSOOR			
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.			
SCALE: 1:100			
DATE: 2010/01/01			
DRAWN BY: SK			
CHECKED BY: OPEC			
REV: 0			
OF 20			

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL6	V. 5	L100X10	6.005	92.262438	4	369.129752
BL6	601	L50X5	4.205	16.1551895	4	64.620758
BL6	602	L50X5	3.999	15.3637581	4	61.4550324
BL6	603	L50X5	3.793	14.5723267	4	58.2893068
BL6	604	L50X5	2.856	10.9724664	8	87.7797312
BL6	605	L40X4	1.342	3.3036014	8	26.4288112
BL6	606	L40X4	0.954	2.3484618	8	18.7876944
BL6	607	L50X5	2.781	10.6843239	8	85.4745912
BL6	608	L40X4	1.306	3.2149802	8	25.7198416
BL6	609	L40X4	0.906	2.2303002	8	17.8424016
BL6	610	L50X5	2.708	10.4038652	8	83.2309216
BL6	611	L40X4	1.271	3.1288207	8	25.0305656
BL6	612	L40X4	0.858	2.1121386	8	16.8971088
BL6	L 601	L50X5	2	7.6838	1	7.6838
BL6	L 602	L50X5	1.999	7.6799581	2	15.3599162
BL6	S 601	L60X6	2.434	13.4626974	4	53.8507896
BL6	S 602	L60X6	2.578	14.2591758	4	57.0367032
BL6	S 603	L60X6	2.724	15.0667164	4	60.2668656
BL6	P 61	PL300*200*10	1	4.8513	4	19.4052
BL6	P 62	PL300*200*10	1	4.8513	4	19.4052
BL6	P 63	PL300*200*10	1	4.8513	4	19.4052
BL6	PJ 6	PL420*90*10	1	3.0591	8	24.4728
BL6	MI6	L80X7	0.42	3.638166	4	14.552664
BL6	Bolt Set	M16-60	1	0.16274	64	10.41536
BL6	Bolt Set	M12-40	1	0.06798	318	21.61764
BL6	Washer		1	0.008446	382	3.226372
					TOTAL WEIGHT	1267.39 Kg



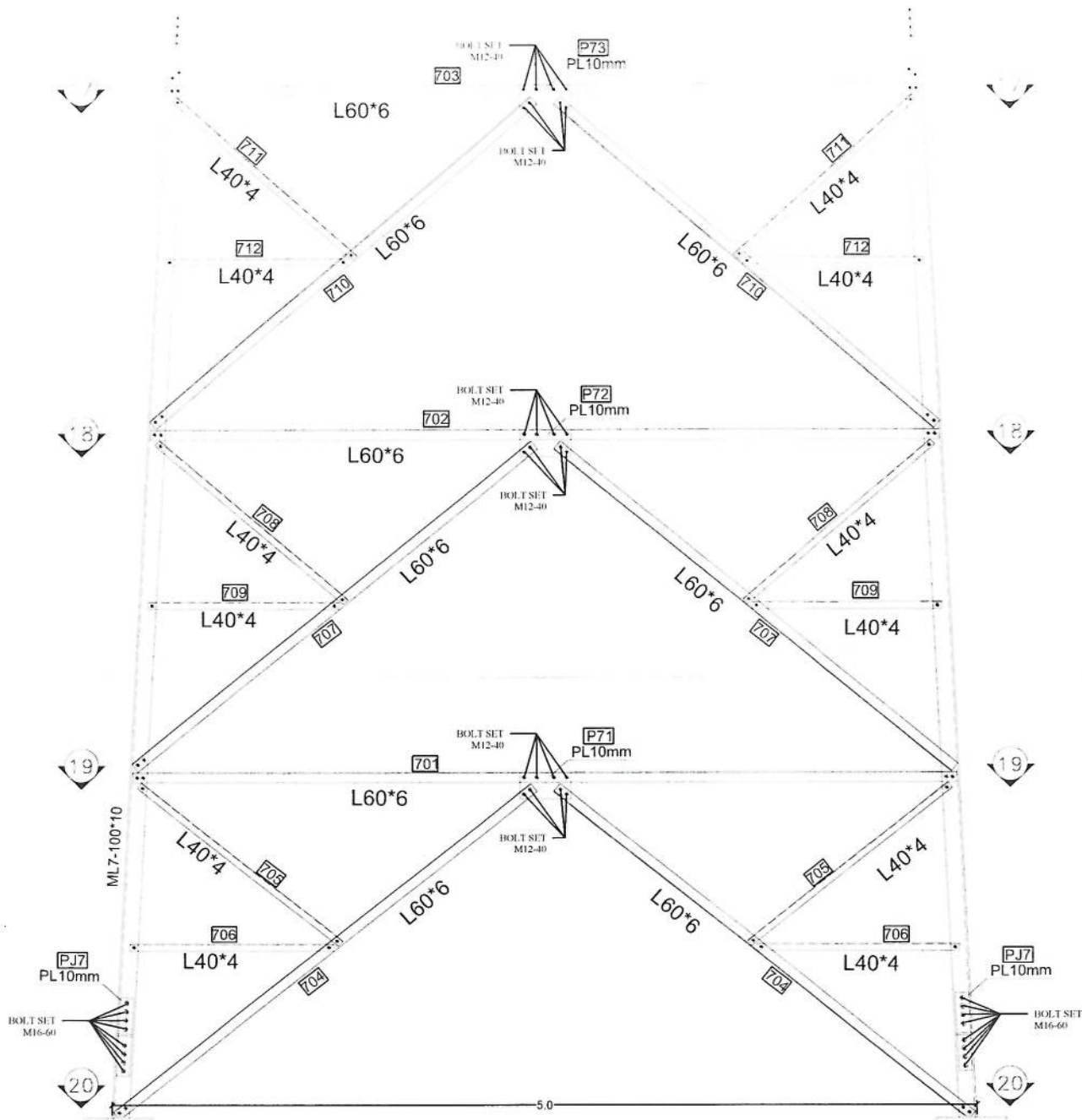
SECTION 16-16



SECTION 15-15

FIRST ISSUE		A.D. 1401/01/01		A.D. 1401/01/01	
DESIGNATION		DESIGN		CHECK	
AFGHAN TELECOM					
APPROVAL DRAWING					
FOR TOWER TYPE: 40-160-EPA10(AK)-40m					
PANEL 4					
DESIGNER					
SULTAN MANSOOR					
DESIGN AND MANUFACTURING					
DAKALSAZAN KALAN CO.					
SK					
OPEC					
SCALE		FORMAT		DATE	
DAKALSAZAN KALAN CO.		DESIGN		DATE	
REV. 1.00					

NOTE:
 1. ALL BOLT SET IN MAIN MEMBER 2-40
 2. ALL BOLT SET IN MAIN LUGS AND JOINT ARE M16-60
 3. ALL PLATE AND JOINT PLATE ARE PL 10mm

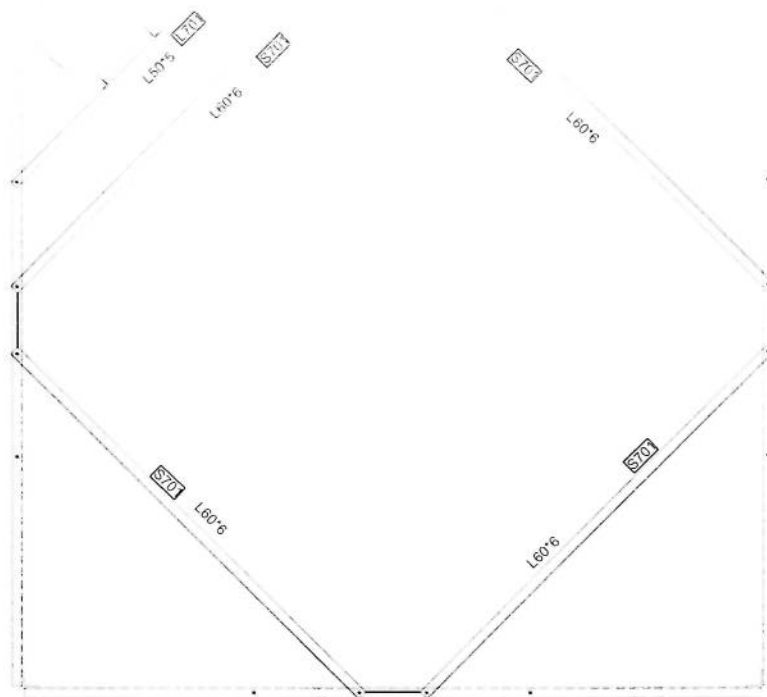


BLOCK 7

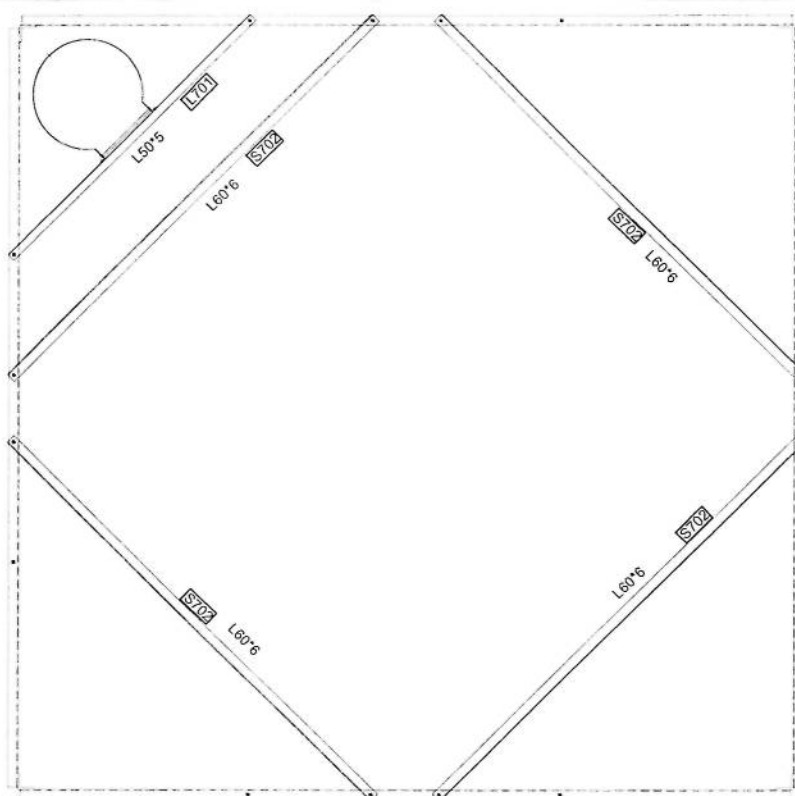
PROFILES GRADE LEGEND

- 1-L = ST37
- 2-ML = ST50
- 3-HT = ST52
- 4-ALL JOINT PLATES ARE ST52

NO.	REV.	DATE	BY	CHECK	DATE
CLIENT: AFGHAN TELECOM					
TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4					
CONTRACTOR: SULTAN MANSOOR					
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.					
LOCAL: DAKALSAZAN KALAN CO.					
FORMAT: A1					
DESIGN: SK					
OPEC					
REV. 1 OF 20					



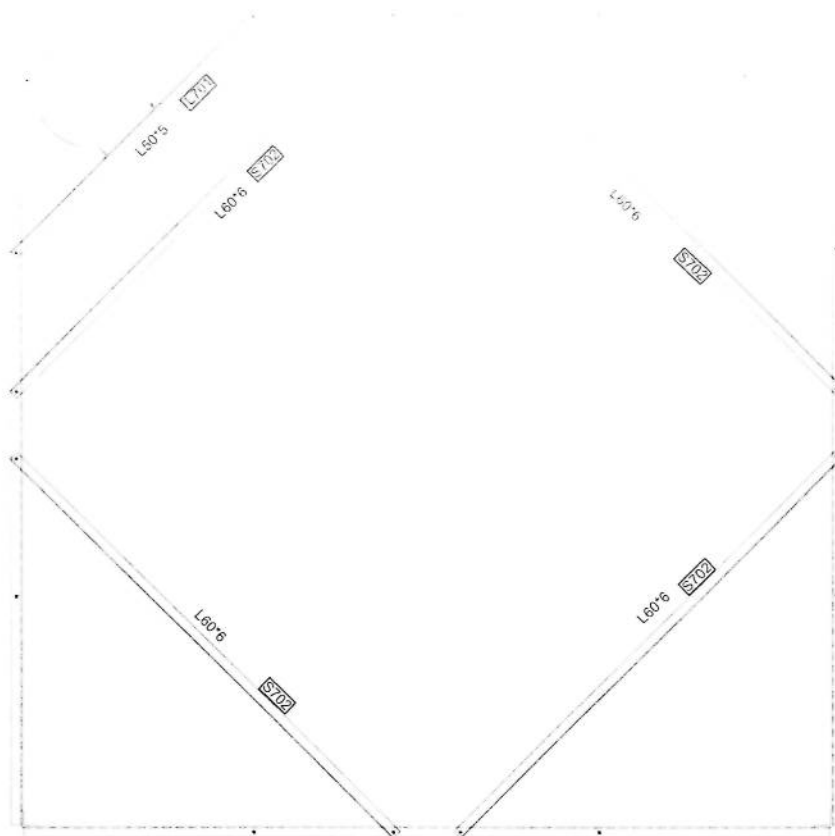
SECTION 17-17



SECTION 18-18

NO.	DATE	BY	CHKD.	APP.
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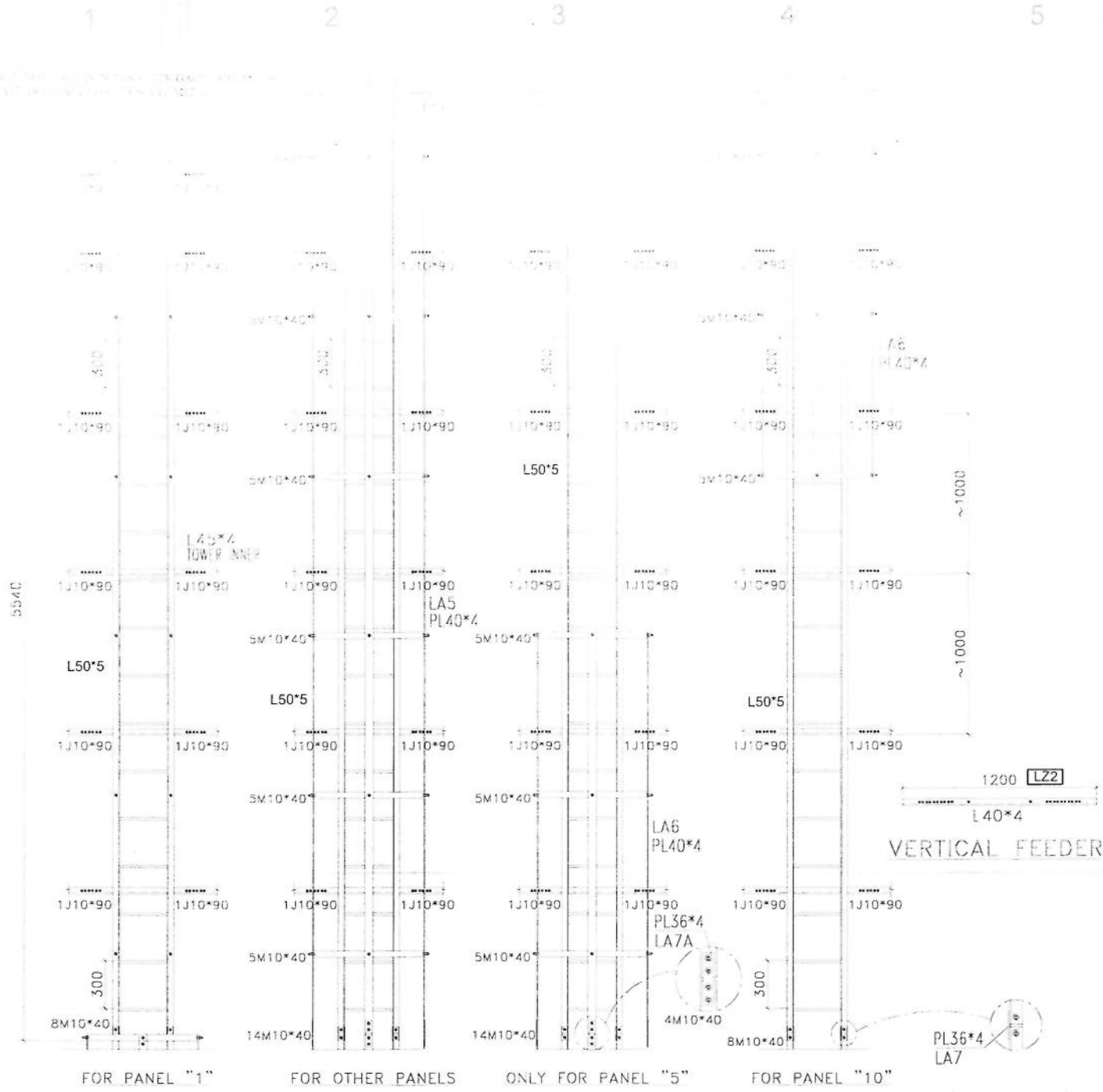


SECTION 19-19

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL7	ML 7	L 100X10	5.5	84.5218	4	338.0872
BL7	701	L60X6	4.781	26.4441891	4	105.7767564
BL7	702	L60X6	4.595	25.4154045	4	101.661618
BL7	703	L60X6	4.41	24.392151	4	97.568604
BL7	704	L60X6	2.962	16.3831182	8	131.0649456
BL7	705	L 40X4	1.403	3.4537651	8	27.6301208
BL7	706	L 40X4	1.072	2.6389424	8	21.1115392
BL7	707	L60X6	2.855	15.7912905	8	126.330324
BL7	708	L 40X4	1.348	3.3183716	8	26.5469728
BL7	709	L 40X4	1.028	2.5306276	8	20.2450208
BL7	710	L60X6	2.779	15.3709269	8	122.9674152
BL7	711	L 40X4	1.315	3.2371355	8	25.897084
BL7	712	L 40X4	0.985	2.4247745	8	19.398196
BL7	L701	L50X5	2	7.6838	3	23.0514
BL7	S 701	L60X6	2.876	15.9074436	4	63.6297744
BL7	S 702	L60X6	3	16.5933	8	132.7464
BL7	P 71	PL300*175*10	1	4.2436	4	16.9744
BL7	P72	PL300*175*10	1	4.2436	4	16.9744
BL7	P 73	PL300*175*10	1	4.2436	4	16.9744
BL7	PJ 7	PL420*90*10	1	3.0591	8	24.4728
BL7	MJ7	L80X7	0.42	3.638166	4	14.552664
BL7	Bolt Set	M16-60	1	0.16274	64	10.41536
BL7	Bolt Set	M12-40	1	0.06798	318	21.61764
BL7	Washer		1	0.008446	382	3.226372
					TOTAL WEIGHT	1508.92 Kg

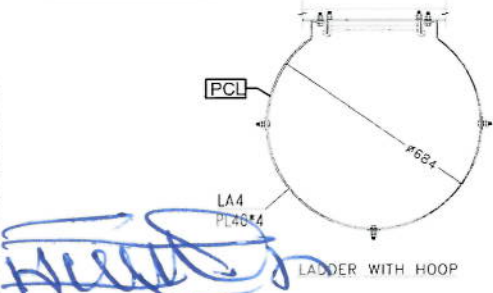
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2	FILE NO.	40-160-SPA10(AK1-40m)	40-160-SPA10(AK1-40m)	40-160-SPA10(AK1-40m)	40-160-SPA10(AK1-40m)
2	DESCRIPTION	APPROVAL DRAWING	FOR TOWER TYPE	40-160-SPA10(AK1-40m)	PANEL 4
2	DATE	2020/01/01	2020/01/01	2020/01/01	2020/01/01
2	DESIGNER	AFGHAN TELECOM	AFGHAN TELECOM	AFGHAN TELECOM	AFGHAN TELECOM
2	APPROVAL	APPROVAL	APPROVAL	APPROVAL	APPROVAL
2	DESIGNER	SULTAN MANSOOR	SULTAN MANSOOR	SULTAN MANSOOR	SULTAN MANSOOR
2	DESIGN AND MANUFACTURE	BAKASAZAN KALAN CO.	BAKASAZAN KALAN CO.	BAKASAZAN KALAN CO.	BAKASAZAN KALAN CO.
2	SCALE	1:1	1:1	1:1	1:1
2	REVISION	0	0	0	0
2	DATE	2020/01/01	2020/01/01	2020/01/01	2020/01/01



FOR PANEL "1" FOR OTHER PANELS ONLY FOR PANEL "5" FOR PANEL "10"

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
Ladder	PCL	PL40X4	1.875	2.433375	29	70.567875
Ladder	PL6	PL40X4	5.868	7.6154904	3	22.8464712
Ladder	PL5	PL40X4	5.996	7.7816088	3	23.3448264
Ladder	PL4	PL40X4	4.168	5.4092304	3	16.2276912
Ladder	PL3	PL40X4	5.603	7.2715734	3	21.8147202
Ladder	PL2	PL40X4	1.448	1.8792144	3	5.6376432
Ladder	PL1	PL40X4	4.05	5.25609	3	15.76827
Ladder	LL7	LSOX5	5.995	23.0321905	2	46.064381
Ladder	LL6	LSOX5	5.995	23.0321905	2	46.064381
Ladder	LL5	LSOX5	5.995	23.0321905	2	46.064381
Ladder	LL4	LSOX5	5.997	23.0398743	2	46.0797486
Ladder	LL3	LSOX5	5.997	23.0398743	2	46.0797486
Ladder	LL2	LSOX5	2.998	11.5180162	2	23.0360324
Ladder	LL1	LSOX5	6.048	23.2358112	2	46.4716224
Ladder		LSOX5	0.57	2.189883	2	4.379766
Ladder	ROD	Φ 16	0.5	0.8137	134	109.0358
Ladder	JPP	PL184*40*8	1	0.4738	9	4.2642
Ladder	JPL	PL105*40*8	1	0.2678	24	6.4272
Ladder	LZ2	L40X4	1.2	2.95404	40	118.1616
Ladder	J BOLT SET	Φ 10	0.1	0.06386	80	5.1088
Ladder	BOLT SET	M10-30	1	0.05974	150	8.961
Ladder	BOLT SET	M12-40	1	0.06798	84	5.71032
Ladder	Washer		1	0.008446	234	1.976364
			TOTAL WEIGHT			740.09 Kg



AFGHAN TELECOM

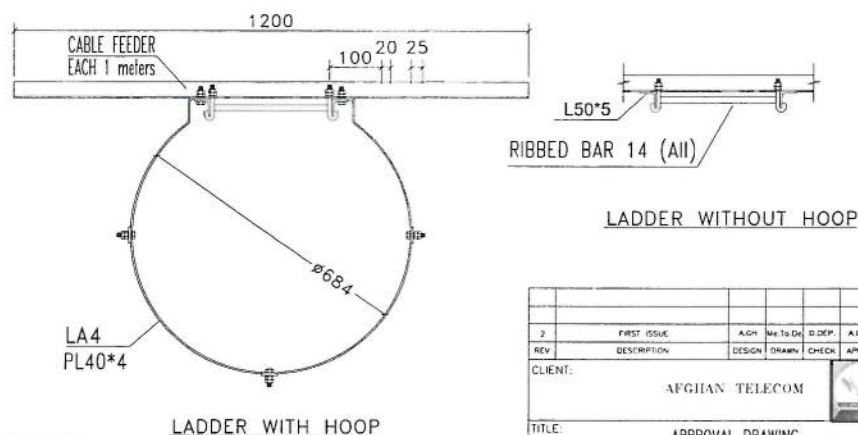
APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

CONTRACTOR: SULTAN MISOOM

DESIGN AND MANUFACTURE: DAKALSAZAN KALAN CO.

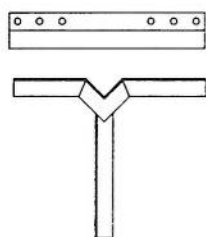
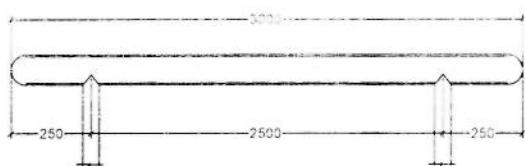
DATE: 10/10/2010

REVISION: 0

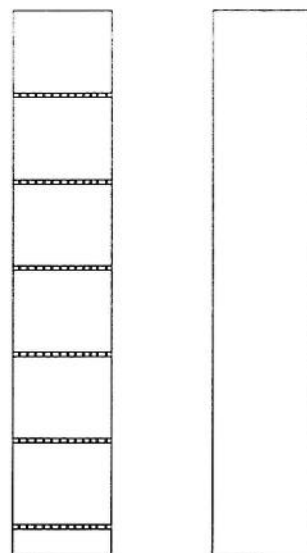
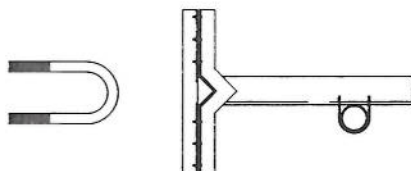


INSTALL BOTTOM PART OF LADDERS

[illegible]



SUPPORTER



CABLE TRAY

Sr.No	Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
SUPPORTER							0
1	SUPPORT		(60X3)MM PIPE	3	13.0398	3	39.1194
2	SUPPORT		(60X3)MM PIPE	0.6	2.60796	2	5.21592
3	ANGLE	SL 1	L60X6	0.6	3.31866	3	9.95598
4	ANGLE	ANG	L60X6	0.45	2.488995	20	49.7799
5	ANGLE	ANG	L60X6	0.5	2.76555	5	13.82775
6	PIPE	PIPE	(27X2.6)MM PIPE	1.6	3.98816	5	19.9408
7	ANGLE	ANGLE	L60X6	0.5	2.76555	5	13.82775
8	U BOLT	U B	ROD 12	0.3	0.27501	35	9.62535
TOTAL WEIGHT							161.29 Kg

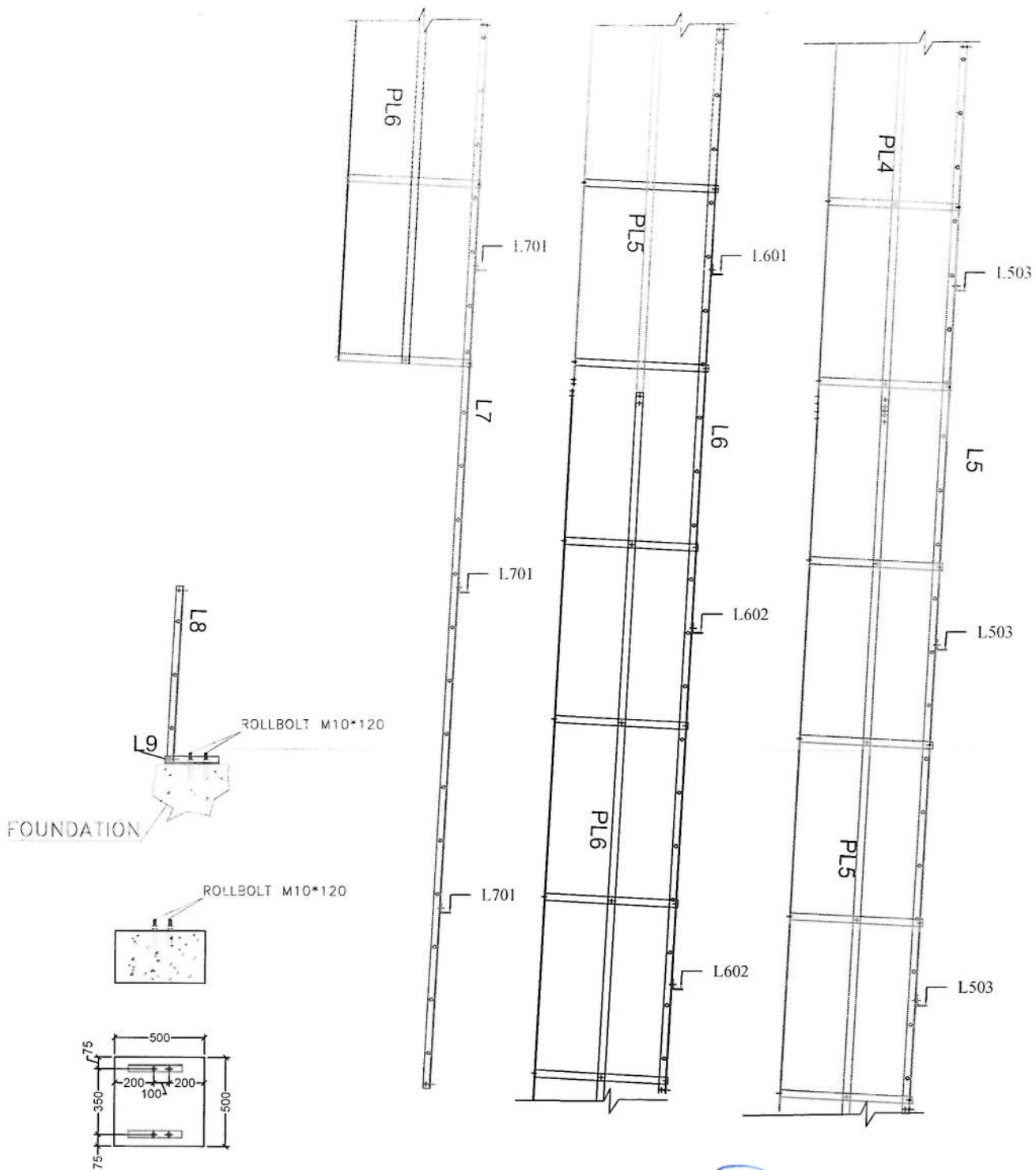
AFGHAN TELECOM

APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

CONTRACTOR: SULTAN MISOOM

DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

SCALE: A1
DAKALSAZAN DWG NO: 0
REV: 0
SH: 1
TOTAL: 20



[Handwritten signature]

2	FIRST ISSUE	ADH	ADH	ADH	ADH	ADH
REV	DESCRIPTION	DESIGN	DRAWN	CHECK	APPROV	DATE
CLIENT:		AFGHAN TELECOM				
TITLE:		APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4				
CONTRACTOR:		SULTAN MANSOOR ENGINEERING & CONSULTING SERVICES				
DESIGN AND MANUFACTURER:		DAKALSAZAN KALAN CO.				
SCALE:		1:100				
DATE:		10/10/20				
REV:		0				

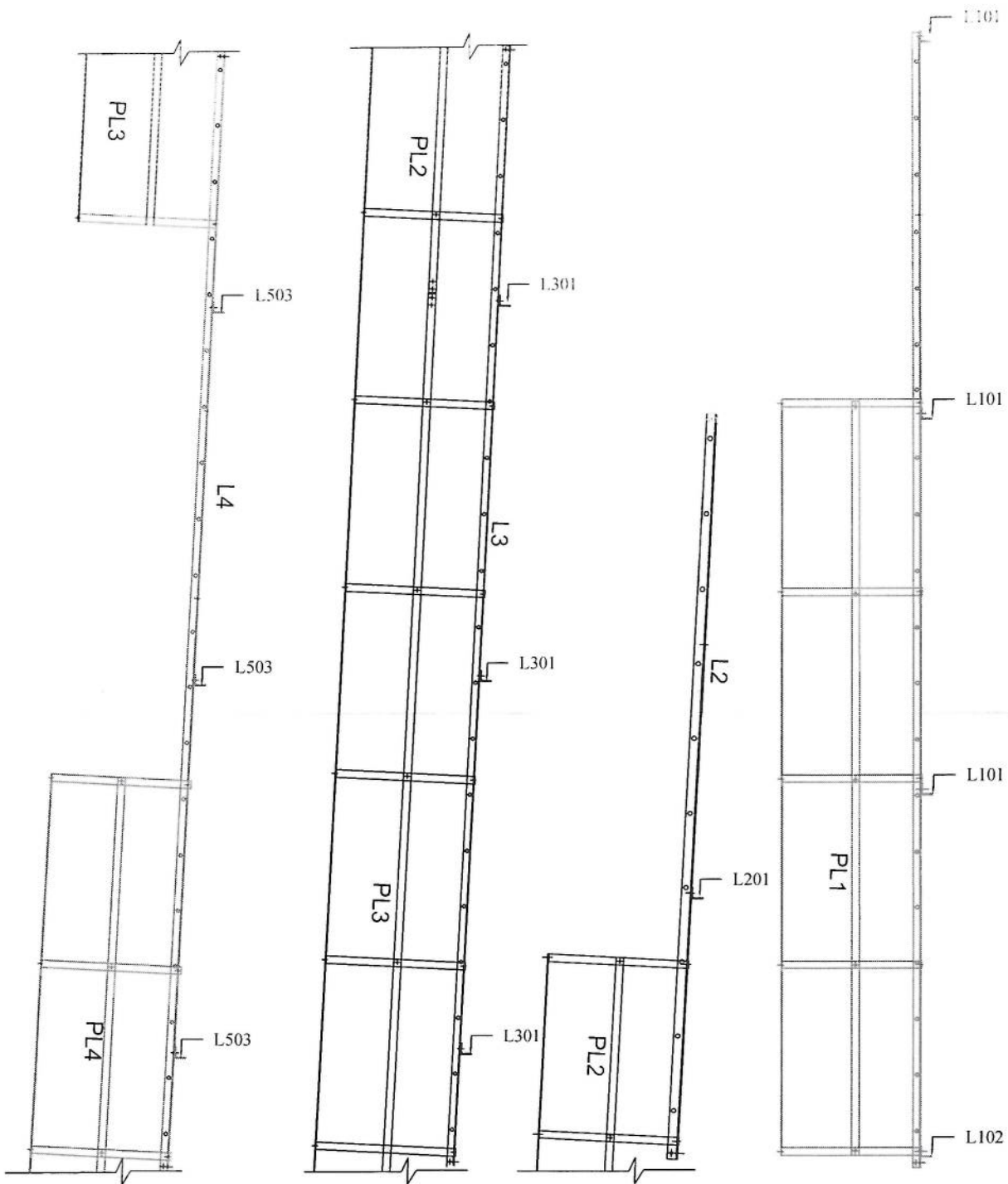
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2

3

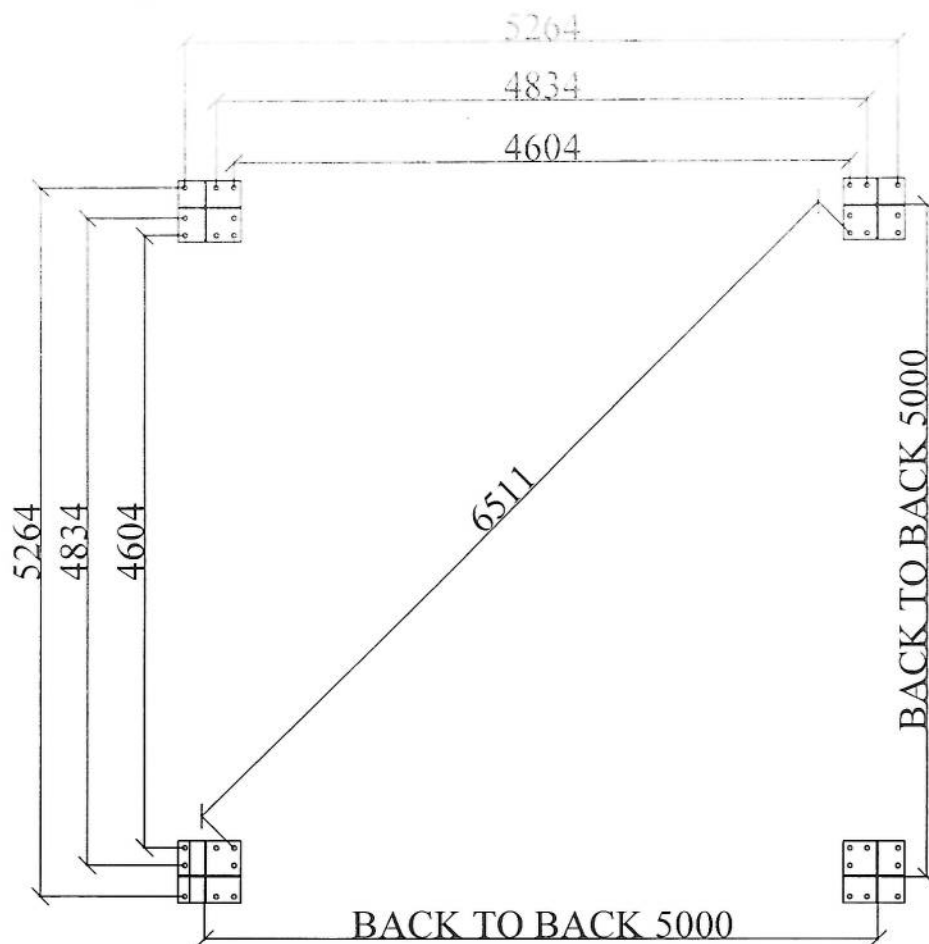
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5

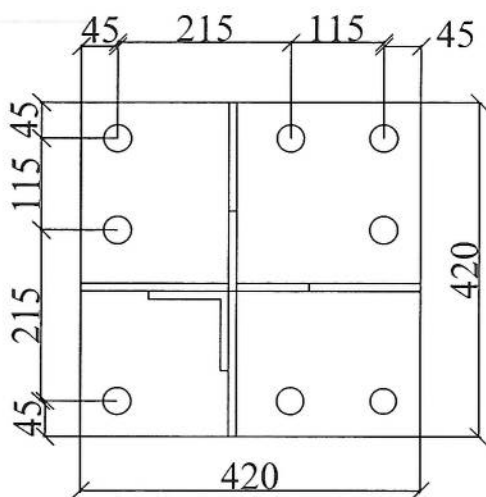


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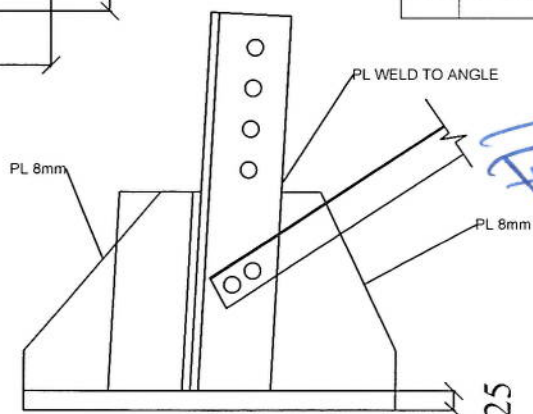
DATE	2010/01/01	DESIGNER	AFGHAN TELECOM	DATE	2010/01/01
REV	01	DESCRIPTION	APPROVAL DRAWING	REV	01
CLIENT	AFGHAN TELECOM	CONTRACTOR	SULTAN MISOOM	CLIENT	AFGHAN TELECOM
TITLE	APPROVAL DRAWING	CONTRACTOR	SULTAN MISOOM	TITLE	APPROVAL DRAWING
FOR TOWER TYPE	40-160-EPA10(AK1-40m)	CONTRACTOR	SULTAN MISOOM	FOR TOWER TYPE	40-160-EPA10(AK1-40m)
PANEL 4		CONTRACTOR	SULTAN MISOOM	PANEL 4	
DESIGN AND MANUFACTURER	DAKALSAZAN KALAN CO.	DESIGN AND MANUFACTURER	DAKALSAZAN KALAN CO.	DESIGN AND MANUFACTURER	DAKALSAZAN KALAN CO.
SCALE	1:1	SCALE	1:1	SCALE	1:1
DAKALSAZAN TAG NO.		DAKALSAZAN TAG NO.		DAKALSAZAN TAG NO.	



SECTION OF BASE PLATE

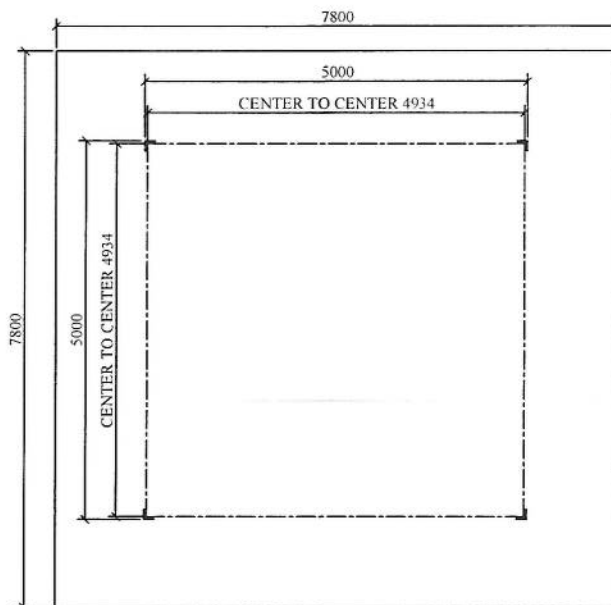
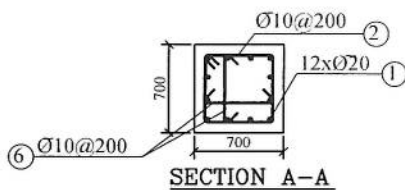
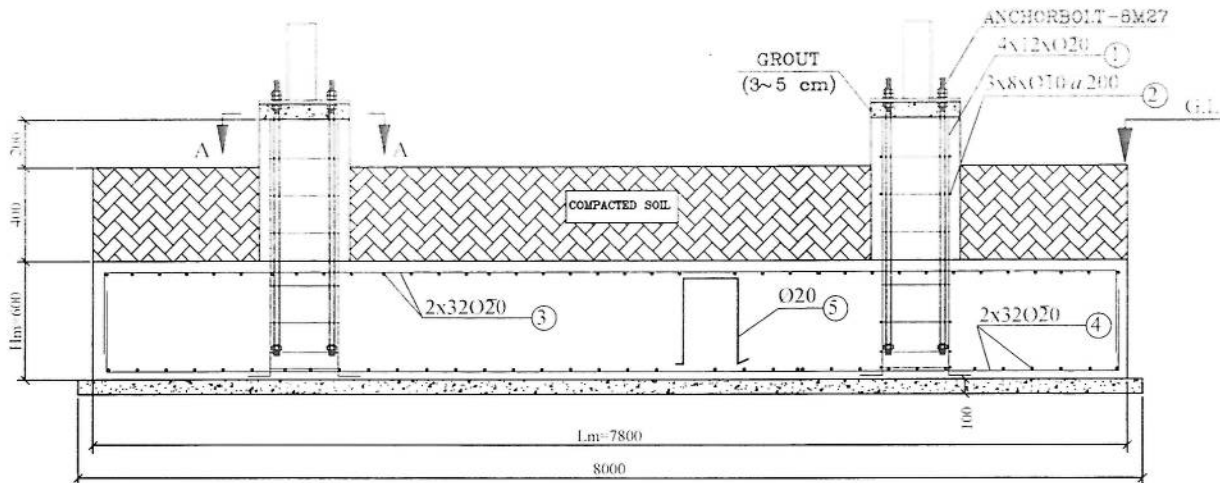


Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BASE						
BASE	BS	PL 420X420X25	1	35.6586	4	142.6344
BASE	STF	PL250*189*8	1	3.0591	2	6.1182
BASE	STF	PL250*130*8	1	2.1012	2	4.2024
BASE	ANGLE	L100X10	0.5	7.6838	4	30.7352
BASE	ANGLE	L100X10	0.25	3.8419	4	15.3676
BASE	ANCHOR BO	Φ 30	1.1	6.28815	32	201.2208
BASE	TEMPLATE	PL40X40X5	1	6.4684	4	25.8736
BASE	NUT30	NUT30	1	0.309	128	39.552
BASE	Cable Tray	GI SHEET 1.8 mm	1	58.71	1	58.71
Total weight						524.41KG



**BASE PLATE
SIDE VIEW**

REV	DESCRIPTION	DESIGN	DRAWN	CHECK	APPR	VER	DATE
1	FIRST ISSUE	A.GH	Me To De	O.DEP	A.DH	--	01/05/08
CLIENT: AFGHAN TELECOM							
TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4							
CONTRACTOR: SULTAN MANSOOR ENGINEERING & LOGISTICS SERVICES							
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO. SK							
SCALE: FORMAT: A1 DESIGN STAGE: DETAIL DESIGN							
DAKALSAZAN DWG NO: REV: 0 SH: /TOTAL 1 OF: 20							



NOTE :

1- ALL DIMENSION ARE IN MM .
EXCEPTION AS NOTED.

2- $F'c=210 \text{ Kg/Cm}^2$ AFTER 28
DAYS ON CYLINDER SPEC.

3- GRADE OF BARS:

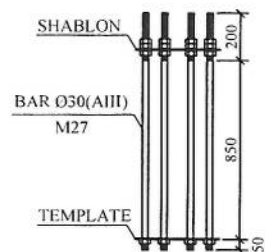
AIII FOR $D \leq 12\text{mm}$

AIII FOR $D > 12\text{mm}$

4- COVER ON BARS IS 75 mm .

5- THICKNESS OF LEAN CONCRETE 10cm.

FOUNDATION PLAN

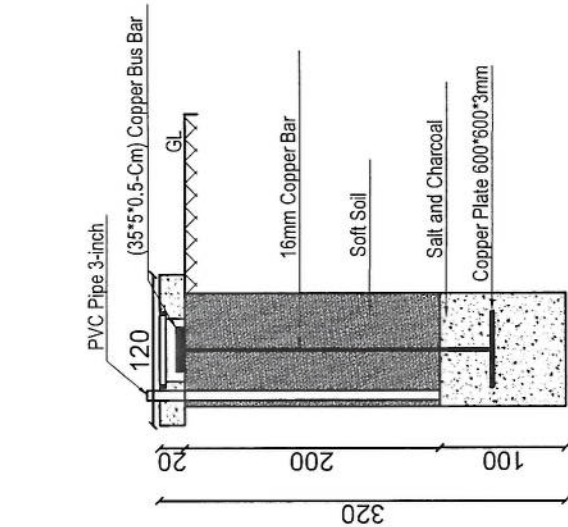


SOIL CHARAC.: ALLOWABLE BEARING= $1.0 \sim 2.0 \text{ KG/CM}^2$ NORMAL
BAR BENDING SCHEDULE (TYPE AIII - $FY=4000\text{kg/cm}^2$)
TYPE 7

POS.	BENDING DIAGRAM	ϕ mm	NO ROD.	UNIT LENGTH m	TOTAL LENGTH m	UNIT WEIGHT Kg/m	TOTAL WEIGHT Kg
1		20	12*4	1.35	64.8	2.47	160
2		10	6*4	2.40	57.6	0.617	36
3		20	32*2	8.25	528	2.47	1304
4		20	32*2	8.25	528	2.47	1304
5		20	58	1.80	104.4	2.47	258
6		10	48	0.75	36	0.617	22

CON. VOL. $=37.7\text{m}^3$ TOTAL WEIGHT (kg) : 3084

REVISION RECORDS	
REVISION NO	DESCRIPTION
تغییرات	توضیحات
تاریخ	تاریخ
تصویر	تصویر
LEGEND:	
تصویر:	توضیحات:
تصویر:	توضیحات:
PROJECT TITLE / NO:	
GSM SITES	
عنوان پروژه:	
مکانیت های GSM	
DRAWING TITLE:	
40m Tower Grounding System	
سیستم ارتداد برای برج 40 متره	
DRAWN BY:	
CIVIL TEAM	
CHECKED BY:	
تصویر:	
APPROVED BY:	
تصویر:	
SCALE:	
1:75	
ACTUAL DATE:	
10/05/2025	
DRG.NO: 23	
ISSUE DATE:	
OWNER:	
AFGHAN TELECOM	
مکانیت ارتداد:	
AFGHAN TELECOM	
سلام	
Kabul Afghanistan	



Detail-A
Well Section

Item	Quantity	Dimension
Copper Rod	4	1m*Ø16mm
Copper Rod	1	2m*Ø16mm
Bus Bar	5	35cm*5cm*5mm
Copper Plate	1	60cm*60cm*3mm
Lightning Arrestor	1	1m
Ground Cable	60m	25mm
Uncovered Ground Cable	32m	25mm
Tower Light with photo cell	1	48V DC
Power Cable	50m	2*2mm

Item List

