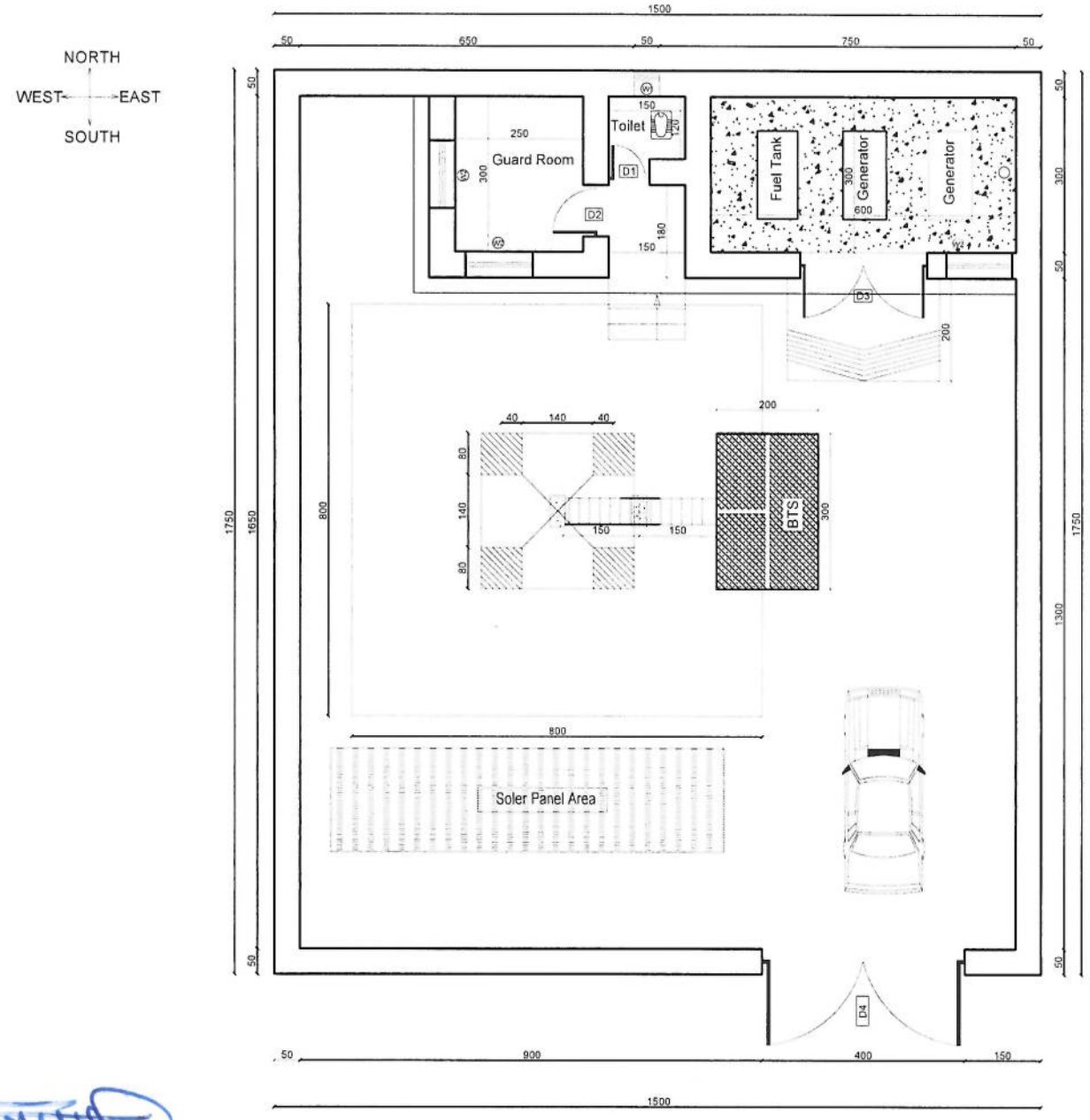
جدول سروی سایتهای غیر تی دی اف(AFTEL)

| شماره | معلومات ابتدایه ضروری هنگام سروی | درج معلومات به اساس سروی از ساحه |
|---|---|---|
| 1 | Site ID (آی دی سایت) | HRT070 |
| 2 | کاندید شماره | شماره A |
| 3 | GPS coordinates | 33.89085 62.21592 |
| 4 | نام ساحه ومنطقه | کوه خارسنگ |
| 5 | نام ولسوالی و ولایت مربوطه | گذره |
| 6 | (نام ساحاتی که قرار است تحت پوشش سایت بیایند) | کوه خارسنگ |
| 7 | مالیکت زمین(شخصی یا دولتی) | دولتی |
| 8 | مالک جایداد/خانه قابل دسترس است | دولتی |
| 9 | شماره تماس مالک یا سکنه جایداد | |
| 10 | شخصی/کرایی | دولتی |
| 11 | مالک جایداد با نصب سایت و شرایط افغان تیلی کام راضی است | دولتی |
| 12 | موافقه ابتدایی ساحوی با مالک جایداد صورت گرفت؟ | دولتی |
| 13 | نوعیت سایت (سریام یا روی مین) | روی زمین |
| 14 | چگونگی ساحه (شهری، روستایی، دوردست)یا VIP | کوهستانی |
| 15 | سرک که واسطه نقلیه تردد بتواند دارد | نه خیر |
| 16 | آیا به سرک جهت تردد واسطه ضرورت است | بلی |
| 17 | چه مقدار سرک تردد واسطه ضرورت است(به متر) | 50 M |
| 18 | درصورتیکه کاندید سایت سریام تعمیرات باشد | |
| 19 | نوعیت تعمیر (مسکونی/تجارتی) | |
| 20 | تعداد منازل | |
| 21 | ارتفاع تعمیر | |
| 22 | راه رسیدن به بام(زینه بیرونی داخلی) | |
| 23 | امکان جابجایی وسایل سریام با افراد وکارگرها است؟ | |
| 24 | امکان جابجایی وسایل سریام با کرین است؟ | |
| 25 | ظاهراً تعمیر قابلیت برداشت سیات را دارد؟ | |
| 26 | نوعیت سریام (رنگ کانکریتی یا گادری) | |
| 27 | مساحت موجود سریام (طول وعرض) | |
| 28 | تاور مورد نیاز(گاید ماست کیبلی) | |
| 29 | ارتفاع تاور مورد نیاز | |
| 30 | ارتفاع مجموعی تاور و تعمیر از سطح زمین منزل | |
| 31 | درصوتیکه کاندید سروی درحویلی یا زمین جایداد باشد | |
| 32 | نوعیت ساحه (ساحه باز یا ساحه محاط) | |

KIBL-HRT Highway

CF 70m




SITE PLAN

01 | REF. A101 | SCALE: 1:100

REVISION RECORDS

| REVISION NO | DATE | DESCRIPTION |
|---|---|---|

LEGEND:

W1

W2

D1

D2

D3

D4

PROJECT TITLE / NO.

REPEATER SITE

DRAWING TITLE:

SITE PLAN WITH FENCE WALL

DRAWN BY:

CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE:

1:100

ACTUAL DATE:

03/06/2025

ISSUE DATE:

DRG.NO: 01

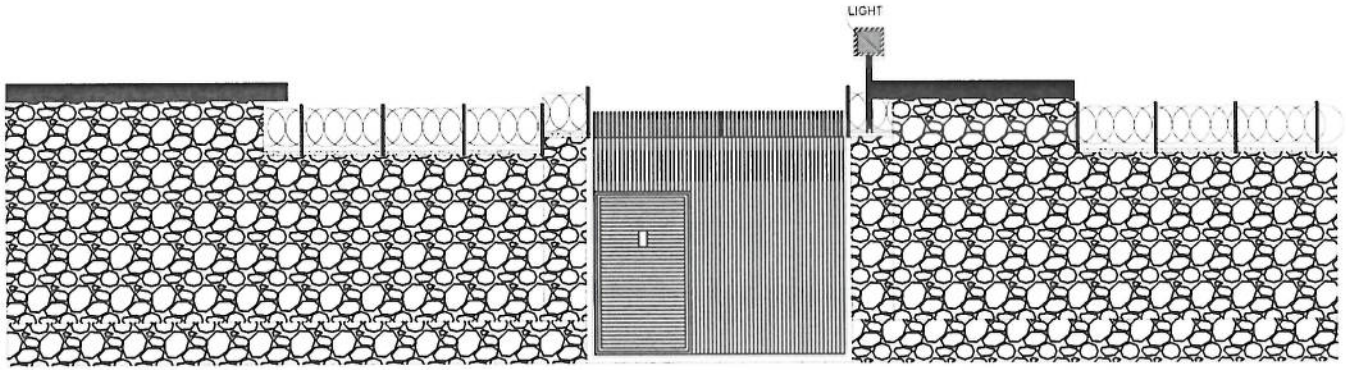
OWNER:

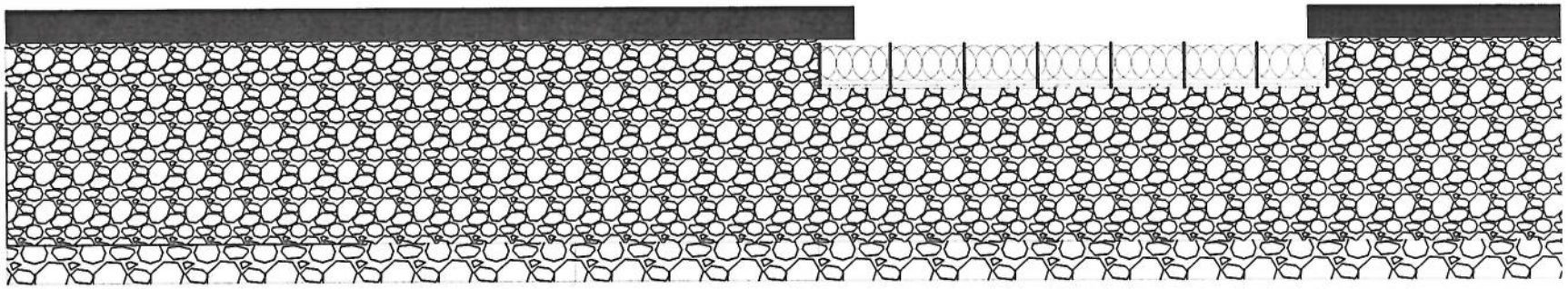
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Salsam Telecommunication Company

KABUL

AFGHANISTAN



02 | WALL ELEVATIONS & DETAILS
REF. A102 SCALE: 1:100

REVISION RECORDS

| REVISION NO | DATE | DESCRIPTION |
|---|---|---|

LEGEND

PROJECT TITLE / NO
REPEATER SITE

DRAWING TITLE:
FENCE WALL ELEVATIONS & DETAILS

DRAWN BY:
CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE:
1:100

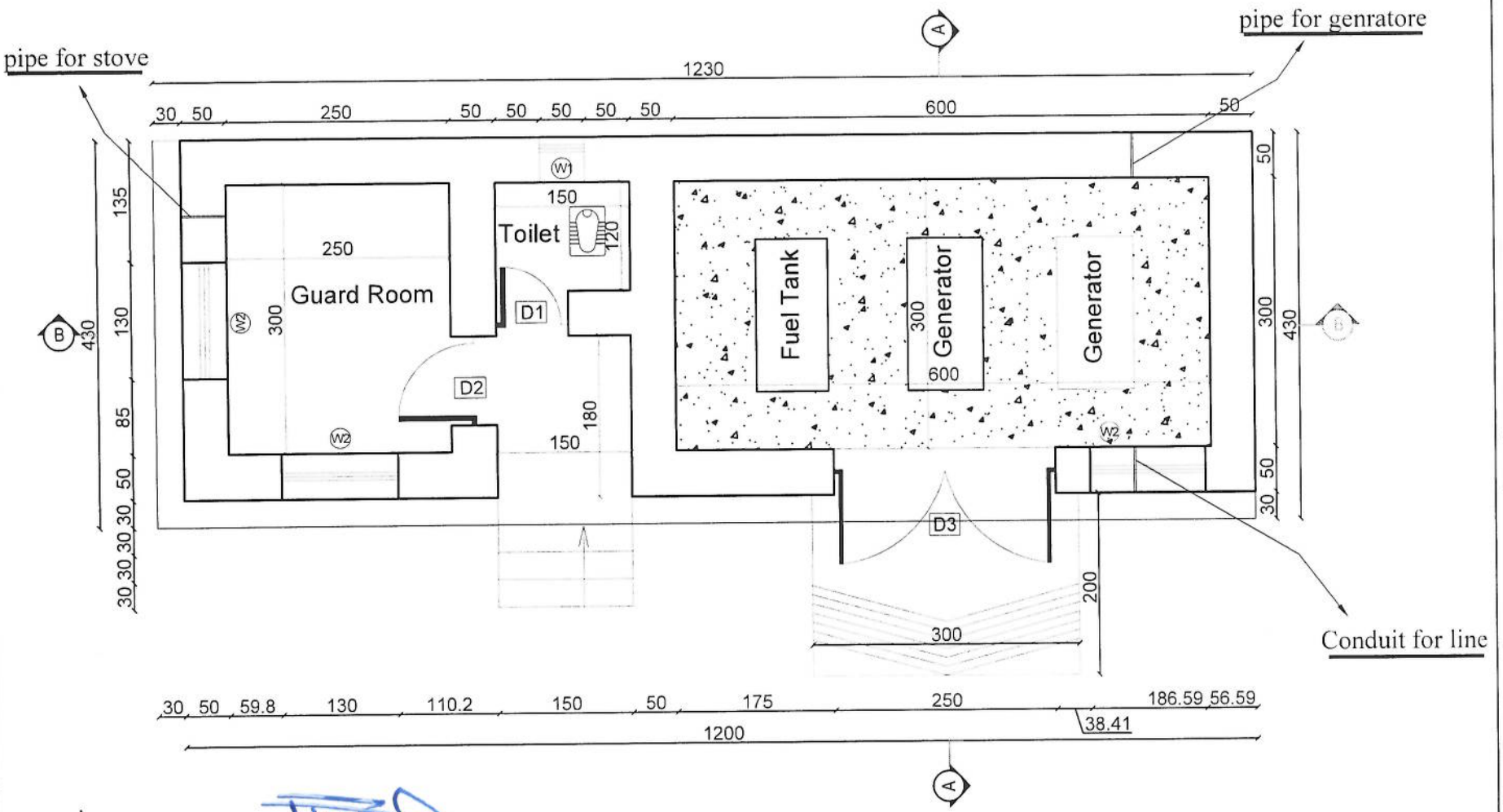
ACTUAL DATE:
03 /06/ 2025

ISSUE DATE:

DRG.NO: 02

OWNER:
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GUARD ROOM

03 REF. A103 SCALE: 1:75

REVISION RECORDS

| REVISION NO | DATE | DESCRIPTION |
|---|---|---|

LEGEND:

PROJECT TITLE / NO:

REPEATER SITE

DRAWING TITLE:

GUARD ROOM

DRAWN BY:

CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE: 1:75

ACTUAL DATE: 03/06/2025

ISSUE DATE:

DRG.NO. 03

OWNER:

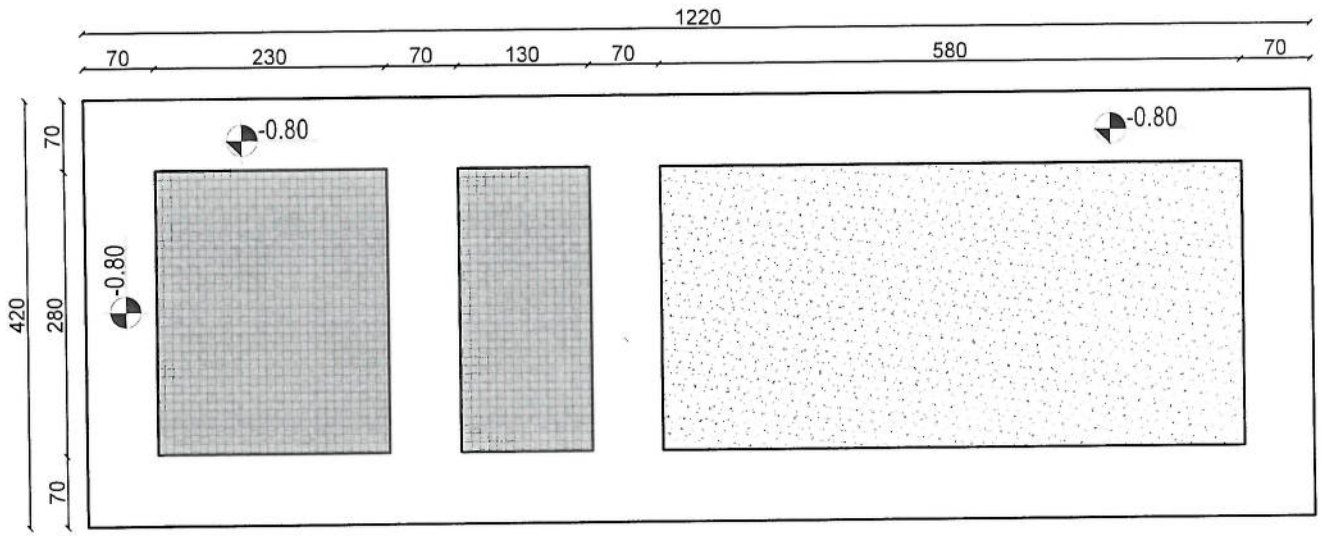
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Salsam Telecomunication Company

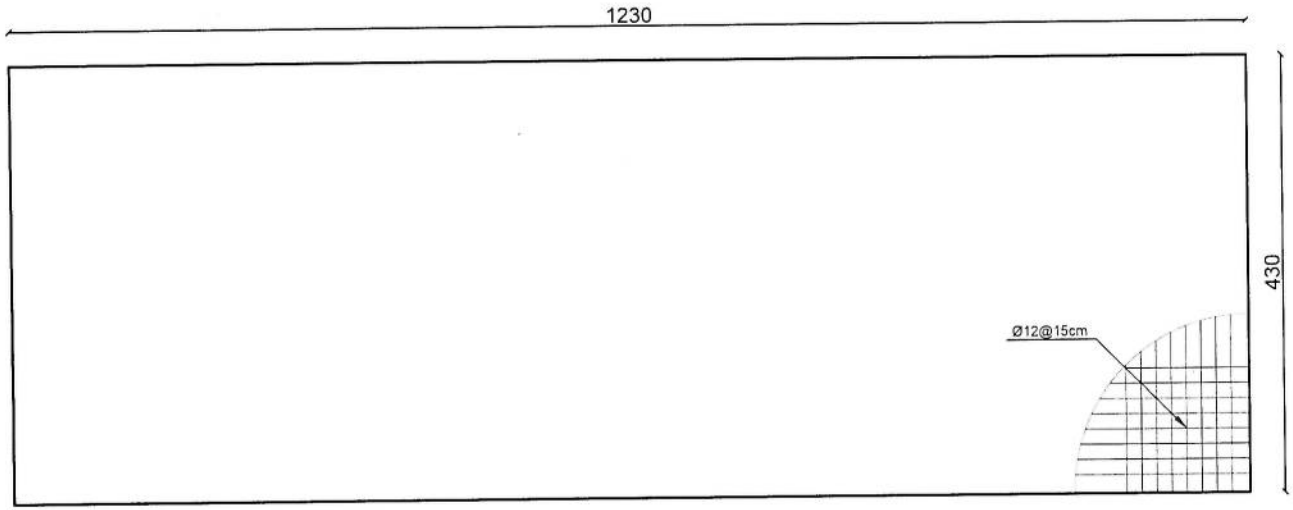
KABUL AFGHANISTAN

جدول سروی سایتهای غیر تی دی اف(AFTEL)

| | | |
|---|---|---|
| 33 | مساحت موجود (طول وعرض) | 15*15m |
| 34 | مساحت مورد نیاز سایت(طول عرض) | 15*15m |
| 35 | توغیت احاطه درصورت ضرورت | حیاطه سنگی |
| 36 | مجل بودباش گارد درصورت ضرورت | ضرورت دارد |
| 37 | تاور(کیبلی روی زمین یا سلف سپورت) | GF |
| 38 | ارتفاع تاورمورد نیاز | 40 |
| 39 | امکانات وصل ترانسمیشن سایت(TX type) | دارد ( با تیم TX چک گردید ) |
| 40 | سایه بان وسلب برای وسایل مخابراتی (BTS and all racks) | ضرورت دارد |
| 41 | سایه بان و سلب مورد نیاز جنراتور وتانکر | اتاق گارد و اتاق جنراتور ضرورت دارد |
| 42 | امکانات نصب سولر است؟ | دارد |
| 43 | ساحه کافی برای سولر موجود است؟ | موجود میباشد |
| 44 | برق شهری درساحه وجود دارد؟ | No |
| 45 | فاصله برج برق از ساحه سایت | |
| 46 | تیم سروی | RF/TX/CIVIL |
| 47 | نام | HABIB/ESMAIL/M.Hanif |
| 48 | دیپارتمنت | RF BSS |
| 49 | شماره | 0749416198/0744418134/0745005310 |
| 50 | سکیچ ساحه سایت (ترتیب وضع ریور سروی شود) | |
| 51 | عکسهای پانارومیک از ساحه گرفته شود | Yes |
| 52 | خط دید وصل مایکرویف با تیم ازساحه باید چک و تایید شود | چک گردیده است |
| 53 | خدمات سلام درساحه موجود است؟ | نه خیر |
| 54 | کیفیت خدمات سلام در ساحه | نه خیر |
| 55 | نظریات: انجنیر ساختمانی | |




Generator Guard and bath Room Excavation Plan




Rebar details of Generator Room roof

GENERATOR ROOM

04 REF. A104 SCALE: 1:75

REVISION RECORDS

| REVISION NO | DATE | DESCRIPTION |
|---|---|---|

LEGEND:

PROJECT TITLE / NO

REPEATER SITE

DRAWING TITLE:

GENERATOR ROOM

DRAWN BY:

CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE: 1:75

ACTUAL DATE: 03/06/ 2025

ISSUE DATE

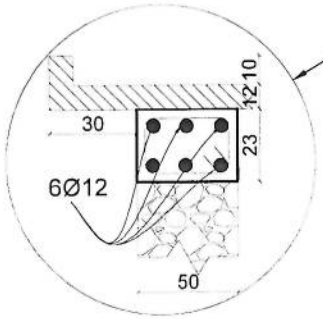
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OWNER:

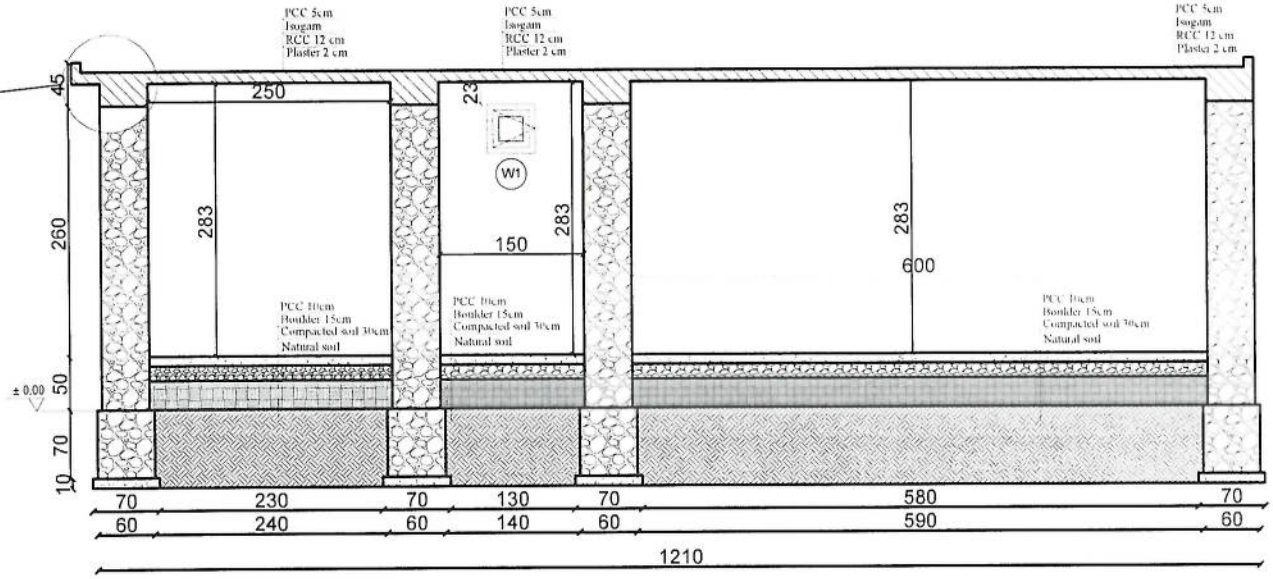
AFGHAN TELECOM

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KABUL AFGHANISTAN




Detail W & R




Section B-B

GENERATOR ROOM

05 | REF. A105 | SCALE: 1:75

REVISION RECORDS

| REVISION NO | DATE | DESCRIPTION |
|---|---|---|

LEGEND:

PROJECT TITLE / NO.

REPEATER SITE

DRAWING TITLE:

GENERATOR ROOM

DRAWN BY:

CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE:

1:75

ACTUAL DATE:

03/06/ 2025

ISSUE DATE:

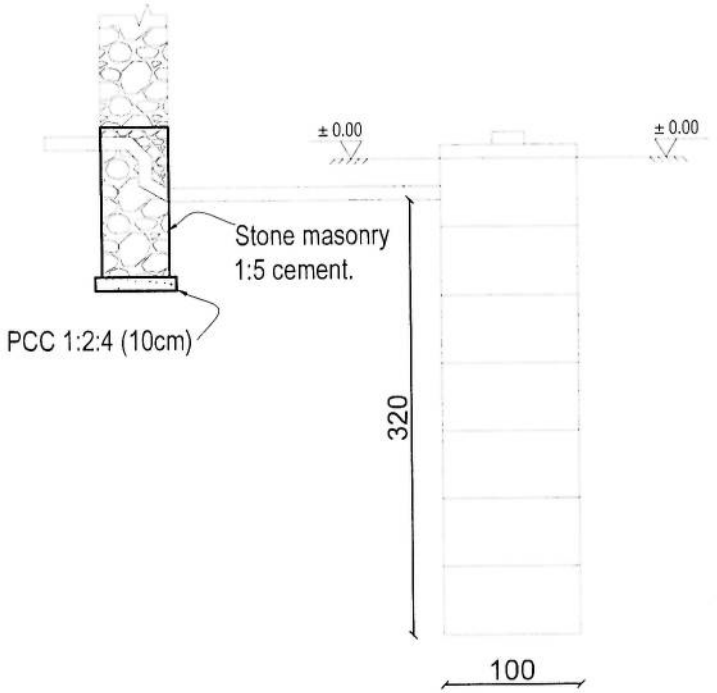
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OWNER:

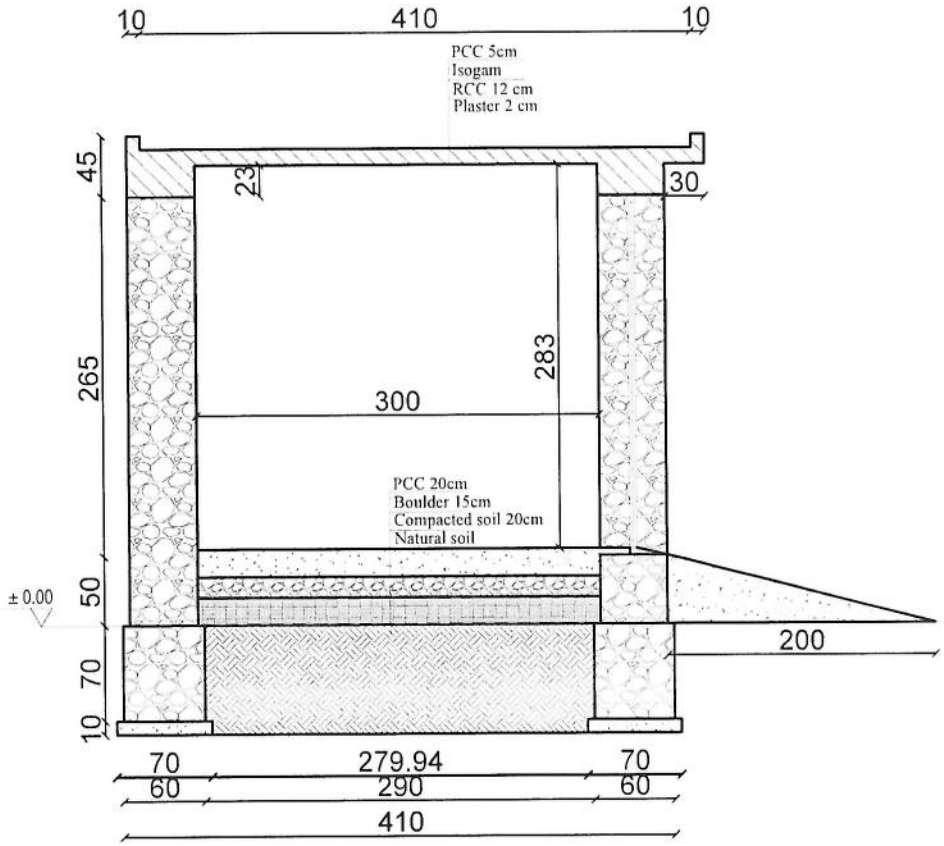
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Well for toilet




Section D-D

Genratore Section Septic well

06 | REF. A106 | SCALE: 1:50

REVISION RECORDS

| REVISION NO | DATE | DESCRIPTION |
|---|---|---|

LEGEND

PROJECT TITLE / NO:
REPEATER SITE

DRAWING TITLE:
TOILET

DRAWN BY:
CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE:
1 SC

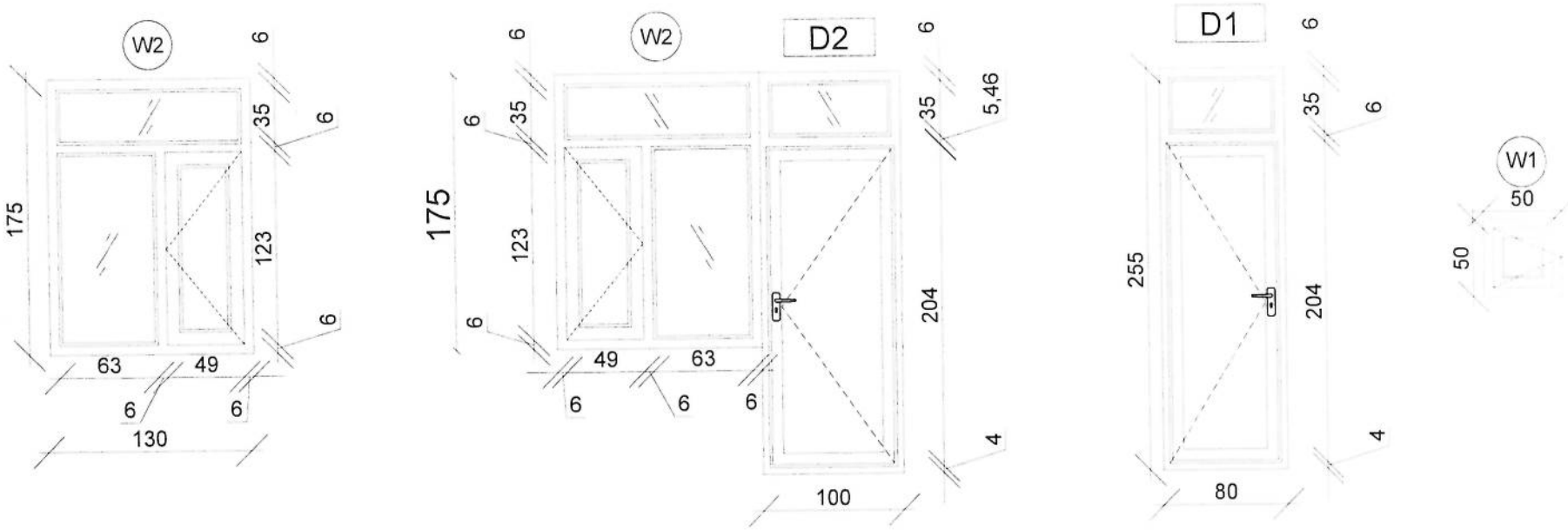
ACTUAL DATE:
03 /06/ 2025

ISSUE DATE:

DRG.NO: 06

OWNER:
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AFGHANISTAN




DOORS & WINDOWS DETAILS

07 | REF. A107 | SCALE: 1:25

REVISION RECORDS

| REVISION NO | DATE | DESCRIPTION |
|---|---|---|

LEGEND:

| | |
|---|---|
| W1 | |
| W2 | |
| D1 | |
| D2 | |
| D3 | |

PROJECT TITLE / NO:

REPEATER SITE

DRAWING TITLE:

DOORS & WINDOWS DETAILS

DRAWN BY:

CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE: 1:50

ACTUAL DATE: 03/05/2023

ISSUE DATE:

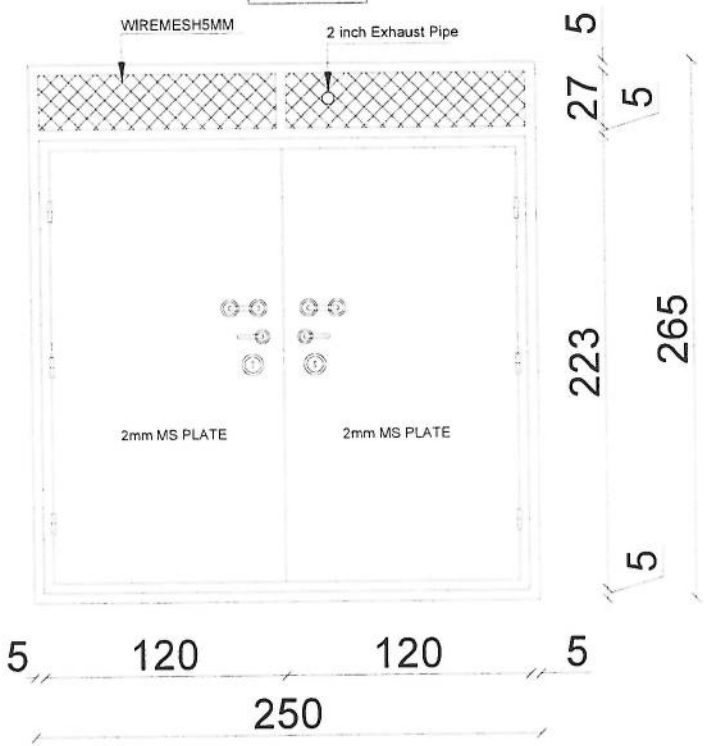
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OWNER:

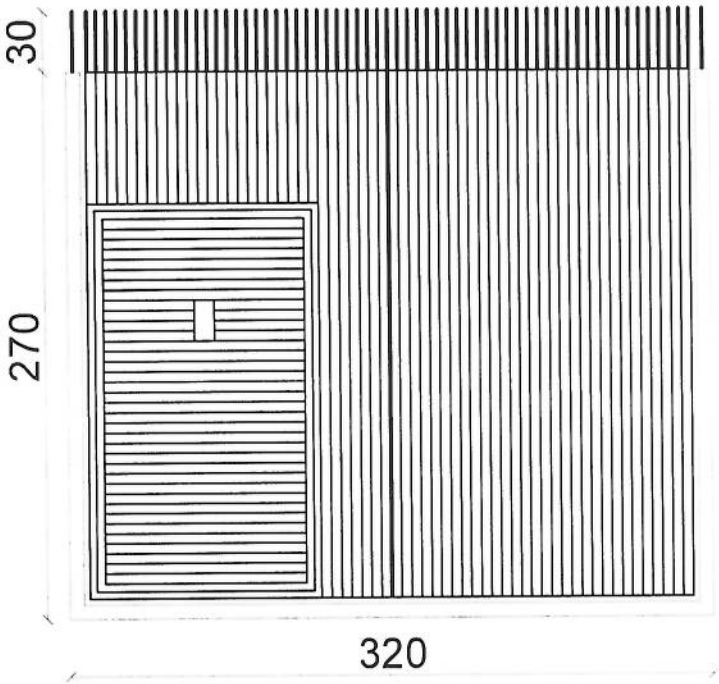
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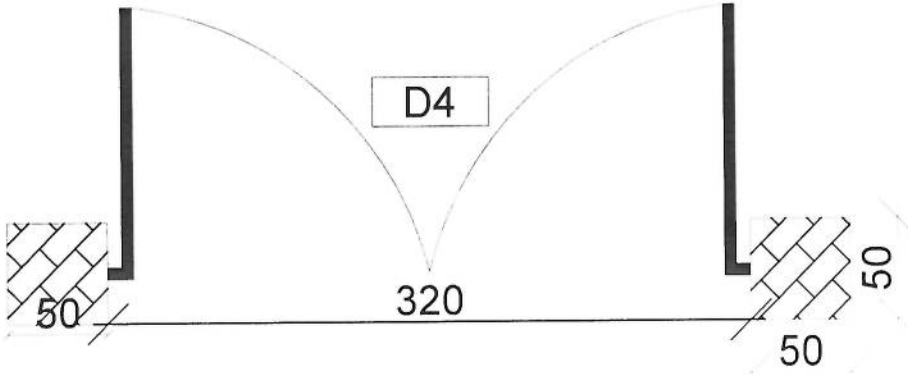
## D3




## D4




## D4




DOORS & WINDOWS DETAILS

08 | REF. A108 | SCALE: 1:25

REVISION RECORDS

| REVISION NO | DATE | DESCRIPTION |
|---|---|---|

LEGEND:

W1

W2

D3

D4

PROJECT TITLE / NO

REPEATER SITE

DRAWING TITLE

DOORS & WINDOWS DETAILS

DRAWN BY:

CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE:

1:25

ACTUAL DATE:

03/06/2025

ISSUE DATE:

DRG.NO 08

OWNER:

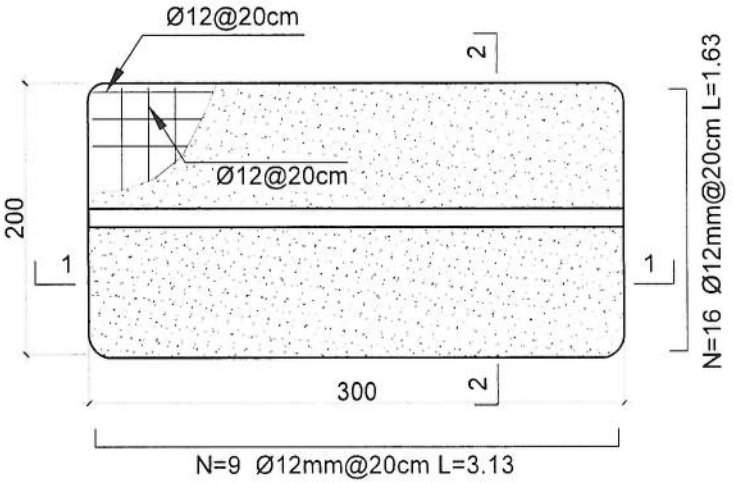
AFGHAN TELECOM

Salsam Telecommunication Company

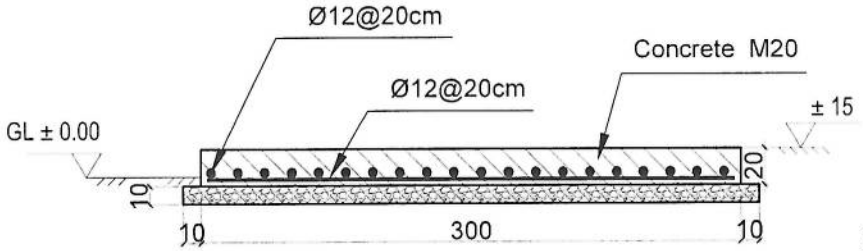
AFGHANISTAN

Notes:

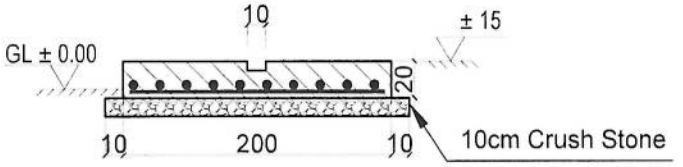
1. The foundation is adopts reinforced concrete,
the concrete is M20; (M20:compressive strength is 20N/mm2);
the foundation lays on a 10cm thick crush stone pad;
2. Ø12: mild steel,rebars strength 210N/mm2
3. minimum concrete cover for rebar is 3.5cm,
4. All units are in cm
5.All edges of the Slab should be curve




## Outdoor BTS Foundation




## 1-1 section




## 2-2 section

| | | |
|---|---|---|
| 09 | ZTE OUTDOOR BTS FOUNDATION<br>REF. A109 | SCALE: 1:25 |

REVISION RECORDS

| REVISION NO | DATE | DESCRIPTION |
|---|---|---|

LEGEND:

PROJECT TITLE / NO:
REPEATER SITE

DRAWING TITLE:
ZTE OUTDOOR BTS FOUNDATION
BTS

DRAWN BY:
CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE:
1:25

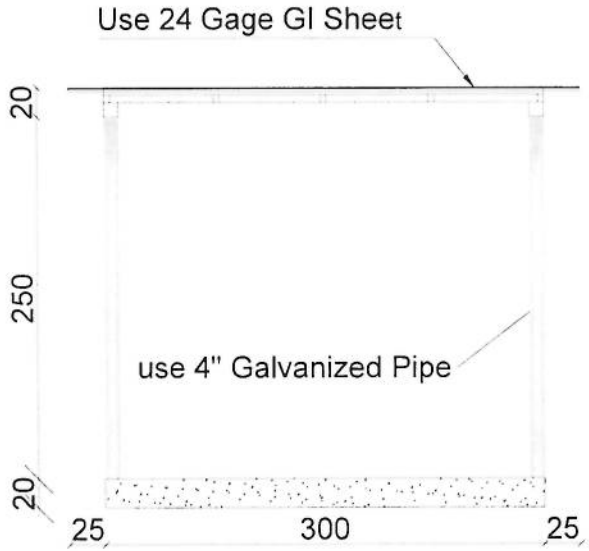
ACTUAL DATE:
03/06/2025

ISSUE DATE:

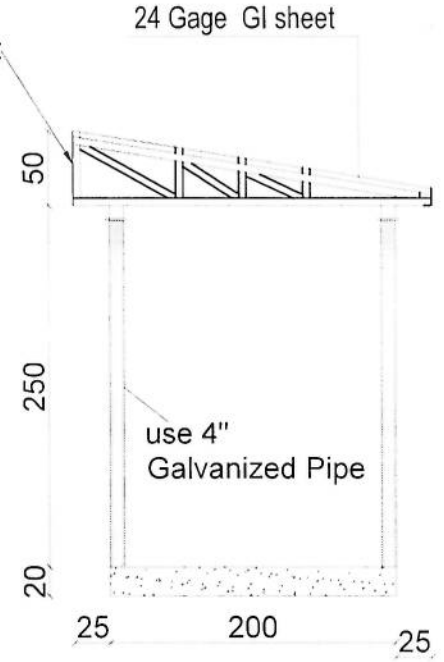
DRG.NO: 09

OWNER:
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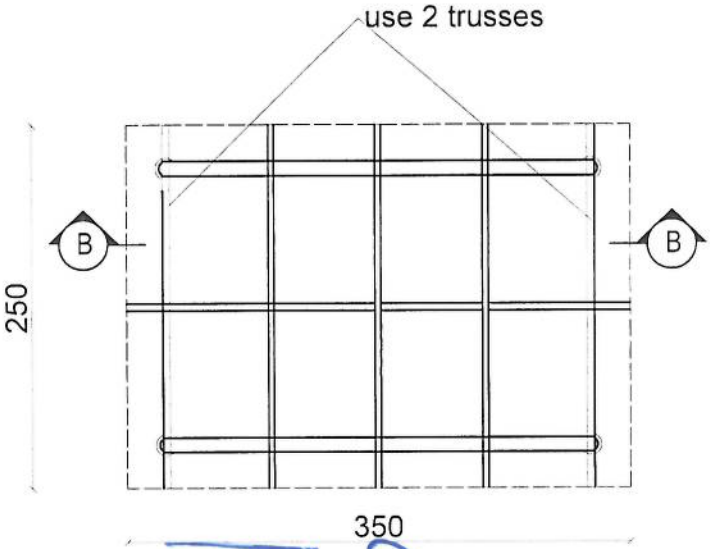
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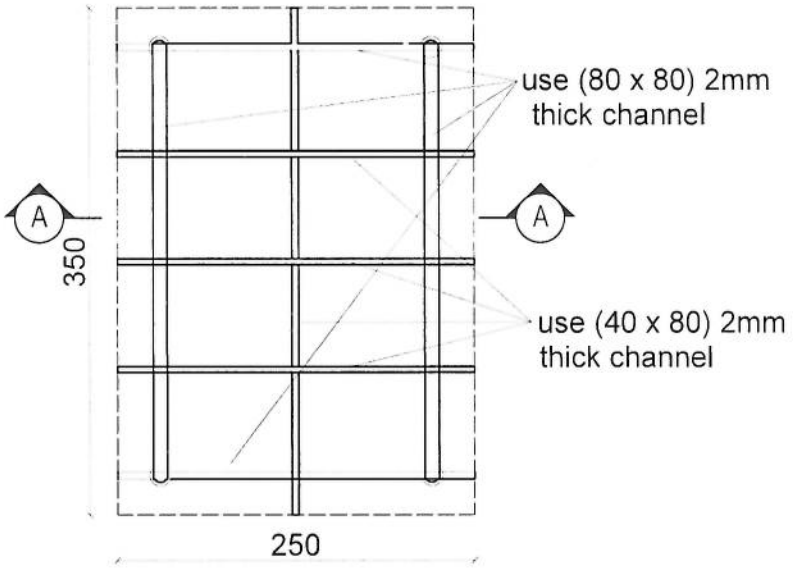



Section BB




Section AA




SUN SHELTER FOR ZTE BTS

10 | REF. A110 | SCALE: 1:50

REVISION RECORDS

| REVISION NO | DATE | DESCRIPTION |
|---|---|---|

LEGEND:

PROJECT TITLE / NO:

REPEATER SITE

DRAWING TITLE:

SUN SHELTER FOR ZTE BTS
BTS

DRAWN BY:
CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE:
1:50

ACTUAL DATE:
03 /06/ 2025

ISSUE DATE:

DRG.NO: 10

OWNER:
AFGHAN TELECOM

Salsam Telecomunication Company
KABUL
AFGHANISTAN

1 2 3 4 5

A

B

C

# TOWER TYPE "AK1"

D

## LATTICE Tower:40m

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

E

F

G

Omid Pishgam Engineering Co.

# LATTICE Tower:40m

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

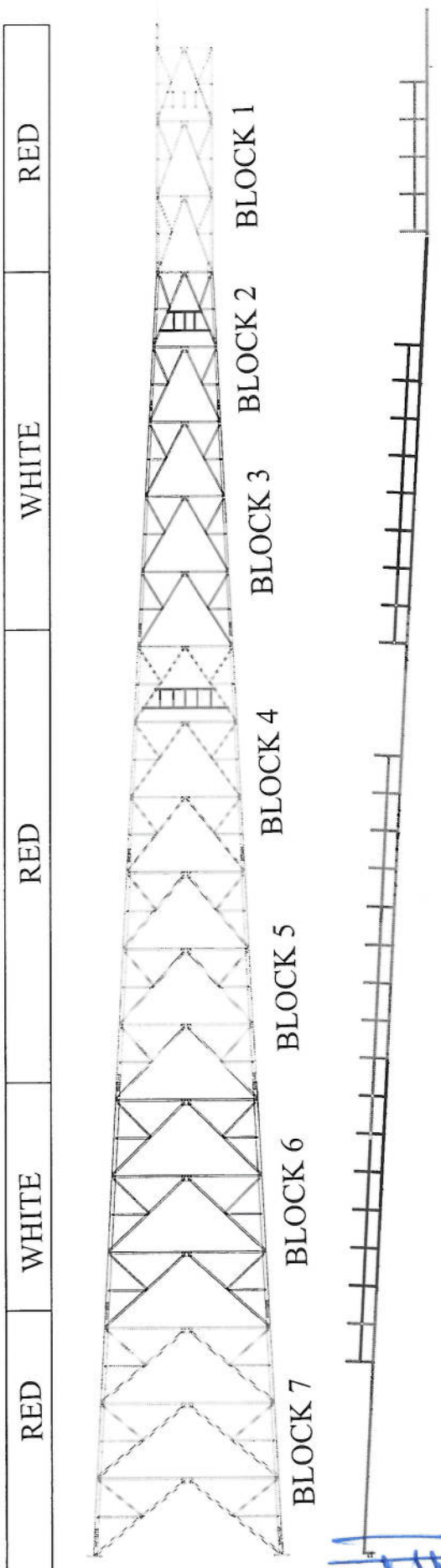
# APPROVAL DRAWING

# 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 |

SULTAN MASOOM
ENGINEERING & LOGISTICS SERVICES

OPEC
Omid Pishgam Engineering Co.




40M TOWER VIEW

| REV. | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR | VRF | DATE |
|---|---|---|---|---|---|---|---|
| 2 | FIRST ISSUE | A.GH | Me.To.De | D.DEP. | A.GH | -- | |

CLIENT: AFGHAN TELECOM

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

CONTRACTOR: SULTAN MASOOM ENGINEERING & LOGISTICS SERVICES

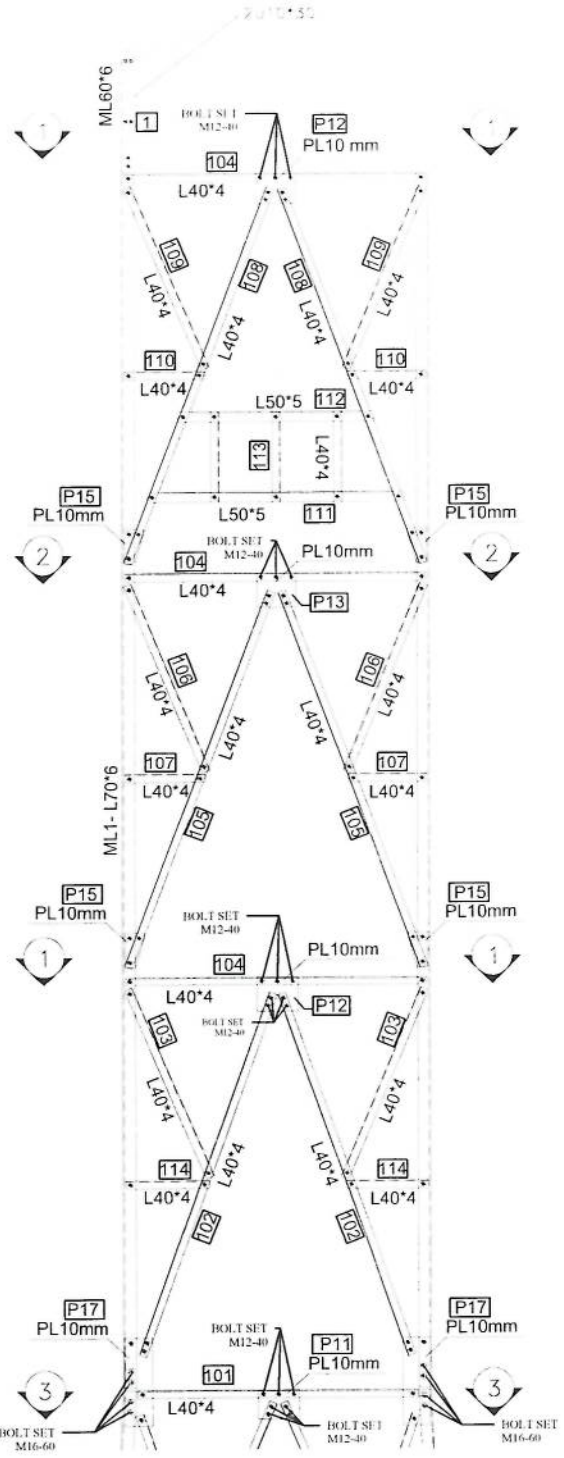
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

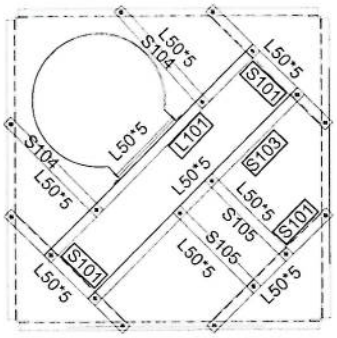
| SCALE: | FORMAT: A1 | DESIGN STAGE: DETAIL DESIGN | |
|---|---|---|---|
| DAKALSAZAN DWG NO: | | REV. | SH. /TOTAL |
| -- | | 0 | 1 OF: 20 |

BLOCK 1

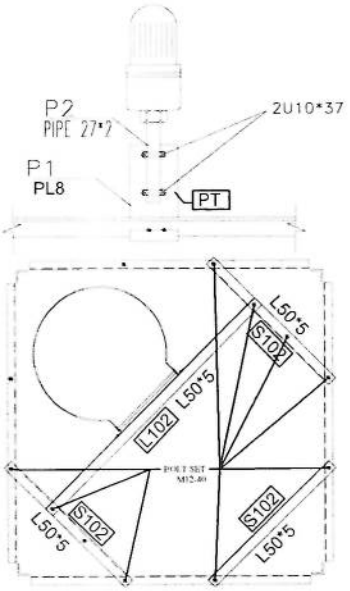
| Block | Mark | Description | Length | WEIGHT | NUMBER | Total Weight |
|---|---|---|---|---|---|---|
| BL1 | ML1 | L70X6 | 6 | 38.9958 | 4 | 155.9832 |
| BL1 | 101 | L 40X4 | 1.38 | 3.397146 | 4 | 13.588584 |
| BL1 | 102 | L 40X4 | 1.925 | 4.7387725 | 8 | 37.91018 |
| BL1 | 103 | L 40X4 | 0.978 | 2.40754.56 | 8 | 19.2603408 |
| BL1 | 104 | L 40X4 | 1.475 | 3.6310075 | 12 | 43.57209 |
| BL1 | 105 | L 40X4 | 2.04 | 5.021868 | 8 | 40.174944 |
| BL1 | 106 | L 40X4 | 1.004 | 2.4715468 | 8 | 19.7723744 |
| BL1 | 107 | L 40X4 | 0.375 | 0.9231375 | 8 | 7.3851 |
| BL1 | 108 | L 40X4 | 2.043 | 5.0292531 | 8 | 40.2340248 |
| BL1 | 109 | L 40X4 | 1.006 | 2.4764702 | 8 | 19.8117616 |
| BL1 | 110 | L 40X4 | 0.375 | 0.9231375 | 8 | 7.3851 |
| BL1 | 111 | L50X5 | 1.21 | 4.648699 | 4 | 18.594796 |
| BL1 | 112 | L50X5 | 0.88 | 3.380872 | 4 | 13.523488 |
| BL1 | 113 | L 40X4 | 0.495 | 1.2185415 | 12 | 14.622498 |
| BL1 | 114 | L 40X4 | 0.396 | 0.9748332 | 8 | 7.7986656 |
| BL1 | Heavy Mesh | 3/16" wire@1"CC (0.235m2)@ 11KGS | 2.5 | 28.325 | 1 | 28.325 |
| BL1 | Mesh Washers | PL100X40X8 | 1 | 0.2575 | 10 | 2.575 |
| BL1 | S 101 | L50X5 | 0.8 | 3.07352 | 9 | 27.66168 |
| BL1 | S 102 | L50X5 | 0.855 | 3.2848245 | 3 | 9.8544735 |
| BL1 | S 103 | L50X5 | 1.465 | 5.6283855 | 1 | 5.6283855 |
| BL1 | S 104 | L50X5 | 0.599 | 2.3012981 | 2 | 4.6025962 |
| BL1 | S 105 | L50X5 | 0.569 | 2.1860411 | 2 | 4.3720822 |
| BL1 | L101 | L50X5 | 1.465 | 5.6283855 | 3 | 16.8851505 |
| BL1 | L102 | L50X5 | 1.449 | 5.5669131 | 1 | 5.5669131 |
| BL1 | P 12 | PL 150*160*10 | 1 | 1.9364 | 8 | 15.4912 |
| BL1 | P13 | PL 150*160*10 | 1 | 1.9364 | 4 | 7.7456 |
| BL1 | P 11 | PL240*160*10 | 1 | 3.1003 | 4 | 12.4012 |
| BL1 | P 15 | PL187*110*10 | 1 | 1.6583 | 16 | 26.5328 |
| BL1 | P 17 | PL308*120*10 | 1 | 2.987 | 8 | 23.896 |
| BL1 | P18 | PL308*50*10 | 1 | 1.2463 | 8 | 9.9704 |
| BL1 | PT | PL400*150*8 | 1 | 3.8831 | 1 | 3.8831 |
| BL1 | 1 | L 60X6 | 0.6 | 3.31866 | 1 | 3.31866 |
| BL1 | C 10*37 | | 1 | 0.206 | 2 | 0.412 |
| BL1 | C10*30 | | 1 | 0.206 | 2 | 0.412 |
| BL1 | BOLT SET | M12-40 | 1 | 0.06798 | 410 | 27.8718 |
| BL1 | BOLT SET | M16-60 | 1 | 0.16274 | 32 | 5.20768 |
| BL1 | WASHER | | 1 | 0.008446 | 442 | 3.733132 |
| | | | | | TOTAL WEIGHT | 705.96 Kg |

NOTE:
1.ALL BOLT SET IN BRACING ARE M12-40
2.ALL BOLT SET IN MAIN LEGS ARE M16-60

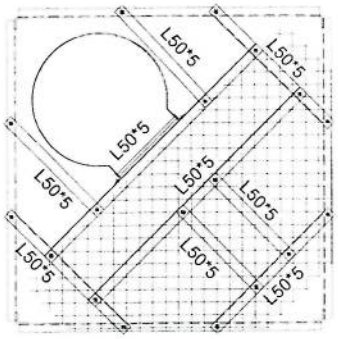


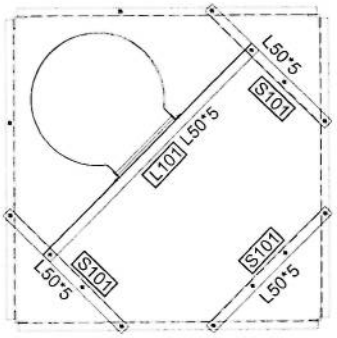

SECTION 2-2




SECTION 3-3




SECTION 2-2




SECTION 1-1

## PROFILES GRADE LEGEND

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

CLIENT: AFGHAN TELECOM

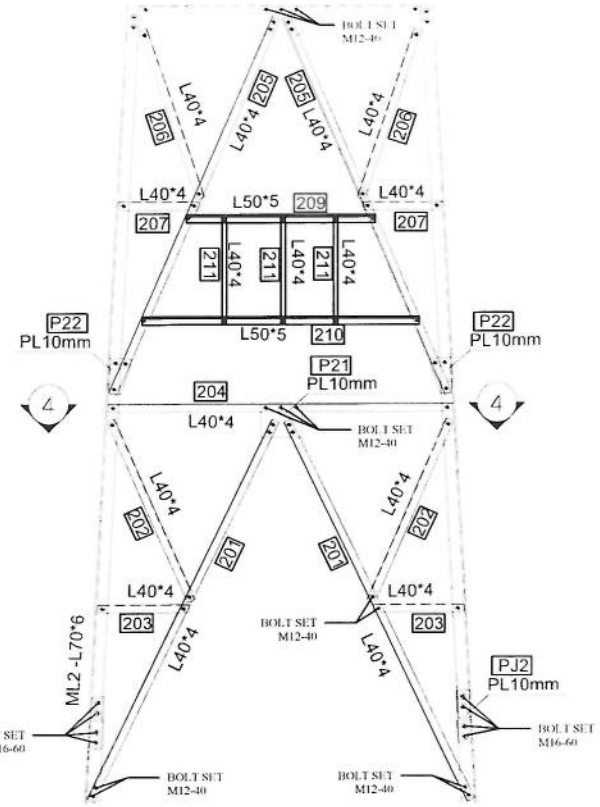
TITLE: APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

CONTRACTOR: SULTAN MASOOM

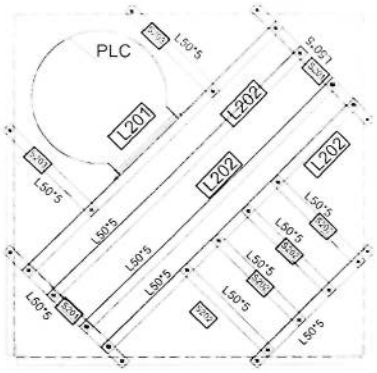
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

SCALE: | FORMAT: A1 | DESIGN STAGE | DETAIL DESIGN
DAKALSAZAN DWG NO. | REV 0 | SH. 1 OF 20

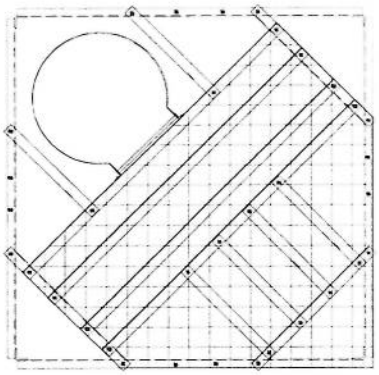
NOTE
1.ALL BOLT SET IN BRACING ARE M12-40
2.ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
3.ALL PLATE AND JOINT PLATE ARE PLATE 10mm




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

| REV | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR. | DATE |
|---|---|---|---|---|---|---|
| 2 | FIRST ISSUE | A.SH | MA.TA.SH | D.ARY | A.SH | - |

CLIENT: AFGHAN TELECOM

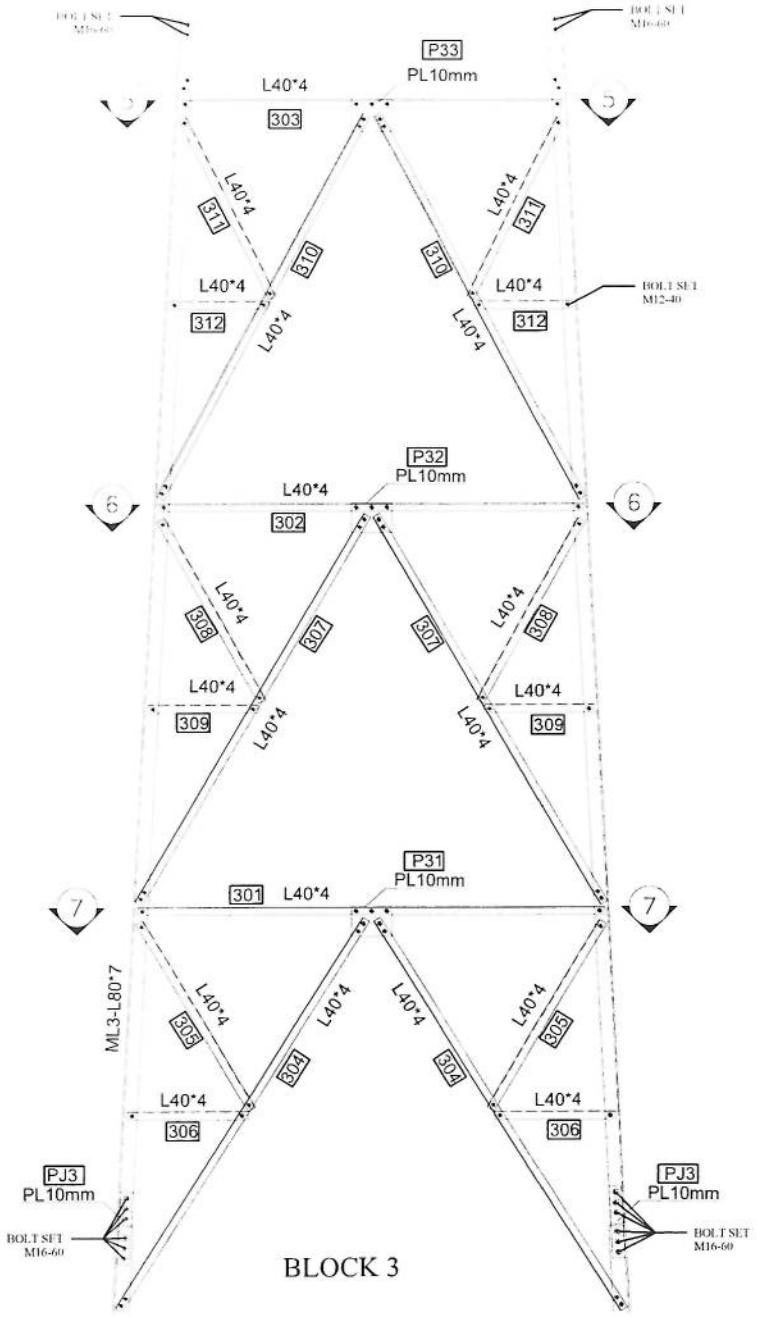
TITLE: APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

CONTRACTOR: SULTAN MASOOM ENGINEERING & ARCHITECTURE SERVICES

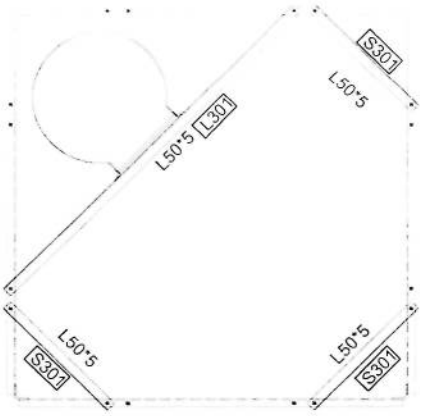
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

| SCALE: | FORMAT: A1 | DESIGN STAGE | DETAIL DESIGN |
|---|---|---|---|
| DAKALSAZAN DWG NO: | | REV | SH. / TOTAL |
| --- | | 0 | 1 OF 20 |

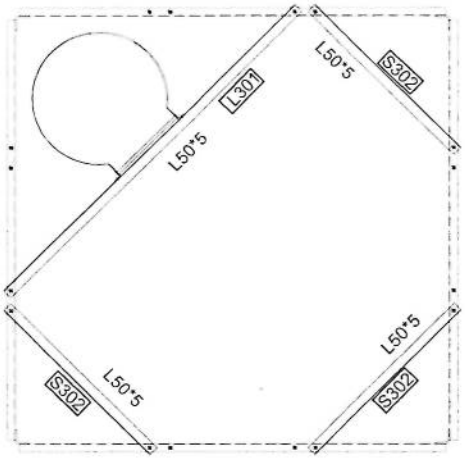
NOTE:
1 ALL BOLT SET IN BRACING ARE M12-40
2 ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
3 ALL PLATE AND JOINT PLATE ARE PLATE 10mm



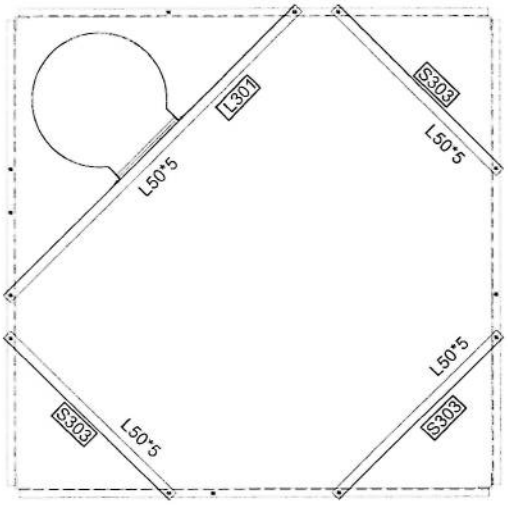

BLOCK 3




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 | 20.8948096 |
| 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 | MI3 | L70X6 | 0.32 | 2.079776 | 4 | 8.319104 |
| BL3 | P 31 | PL240*160*10 | 1 | 3.1003 | 4 | 12.4012 |
| BL3 | P 32 | PL240*160*10 | 1 | 3.1003 | 4 | 12.4012 |
| BL3 | P 33 | PL240*160*10 | 1 | 3.1003 | 4 | 12.4012 |
| BL3 | L 301 | L50X5 | 1.993 | 7.6569067 | 3 | 22.9707201 |
| BL3 | S 301 | L50X5 | 0.717 | 2.7546423 | 3 | 8.2639269 |
| BL3 | S 302 | L50X5 | 1 | 3.8419 | 3 | 11.5257 |
| BL3 | S 303 | 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 |

CLIENT: AFGHAN TELECOM

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

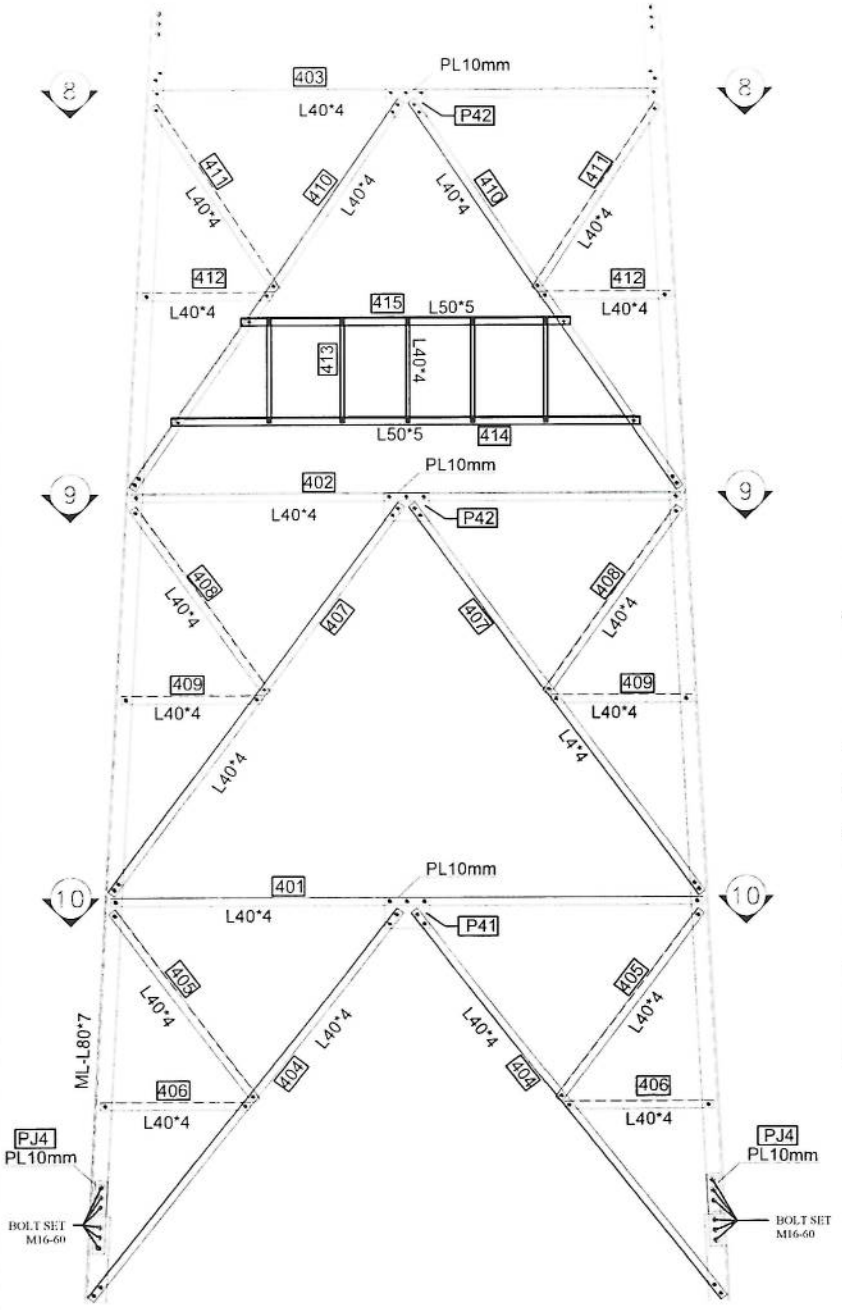
CONTRACTOR: SULTAN MASOOM

DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

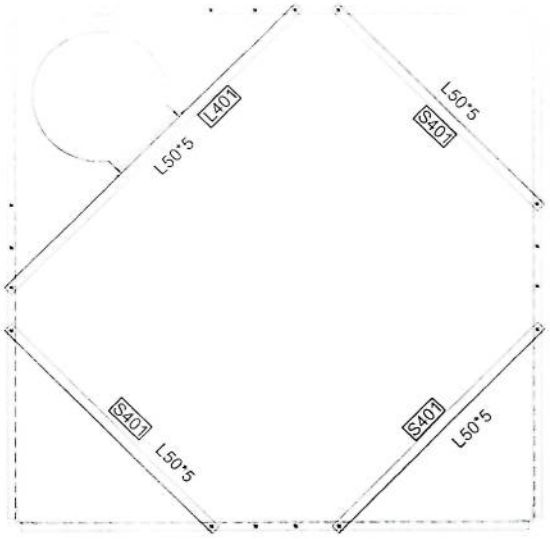
SCALE: | FORMAT: A1 | DESIGN STAGE: | DETAIL DESIGN

DAKALSAZAN DWG NO: | REV: 0 | SH. / TOTAL: 1 OF 20

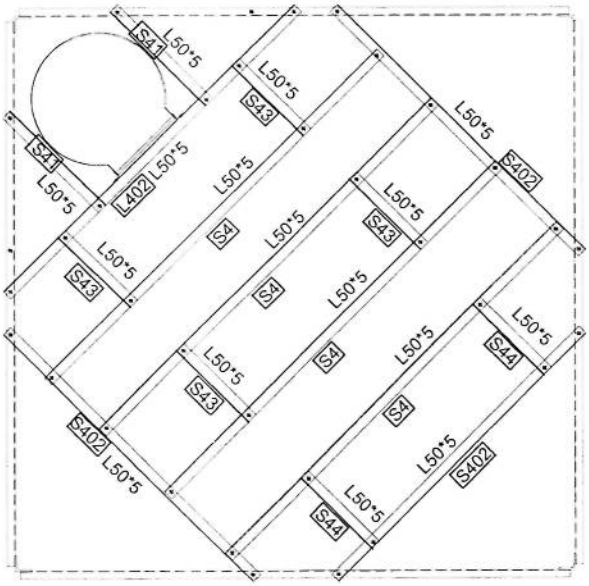
NOTE:
1.ALL BOLT SET IN BRACING ARE M12-40
2.ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
3.ALL PLATE AND JOINT PLATE ARE PLATE 10mm




BLOCK 4




SECTION 8-8




SECTION 9-9

## PROFILES GRADE LEGEND

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | FIRST ISSUE | AGH | Mr Taqi | DGEP | AGH | -- | | |
| REV | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR | VRF | DATE | |

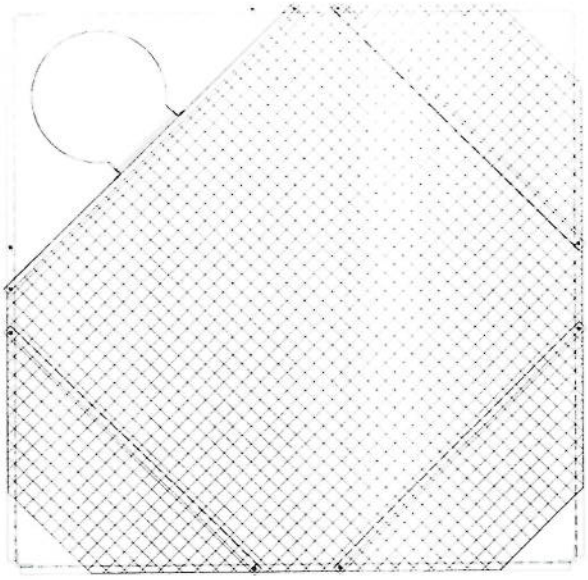
CLIENT: AFGHAN TELECOM

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

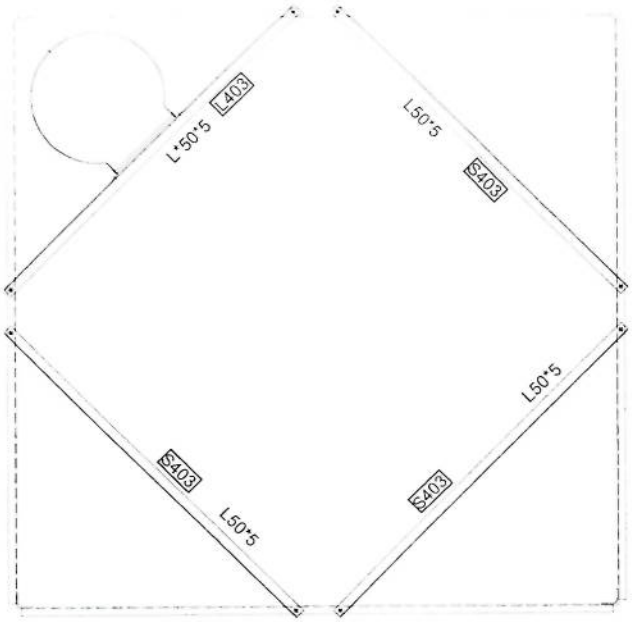
CONTRACTOR: SULTAN MASOOM

DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

| SCALE | FORMAT A1 | DESIGN STAGE | DETAIL DESIGN | |
|---|---|---|---|---|
| DAKALSAZAN DWG NO: | | | REV. | SHT. /TOTAL |
| --- | | | 0 | 1 OF 20 |



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 | L 40X4 | 2.955 | 7.2743235 | 4 | 29.097294 |
| BL4 | 402 | L 40X4 | 2.75 | 6.769675 | 4 | 27.0787 |
| BL4 | 403 | L 40X4 | 2.534 | 6.2379478 | 4 | 24.9517912 |
| BL4 | 404 | L 40X4 | 2.444 | 6.0163948 | 8 | 48.1311584 |
| BL4 | 405 | L 40X4 | 1.185 | 2.9171145 | 8 | 23.336916 |
| BL4 | 406 | L 40X4 | 0.71 | 1.747807 | 8 | 13.982456 |
| BL4 | 407 | L 40X4 | 2.38 | 5.858846 | 8 | 46.870768 |
| BL4 | 408 | L 40X4 | 1.158 | 2.8506486 | 8 | 22.8051888 |
| BL4 | 409 | L 40X4 | 0.664 | 1.6345688 | 8 | 13.0765504 |
| BL4 | 410 | L 40X4 | 2.321 | 5.7136057 | 8 | 45.7088456 |
| BL4 | 411 | L 40X4 | 1.132 | 2.7866444 | 8 | 22.2931552 |
| BL4 | 412 | L 40X4 | 0.617 | 1.5188689 | 8 | 12.1509512 |
| BL4 | 413 | L 40X4 | 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 | MJ4 | 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 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | FIRST ISSUE | ASH | M.YOUR | SOOP | ASH | -- |
| REV | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR | DRF |

CLIENT: AFGHAN TELECOM

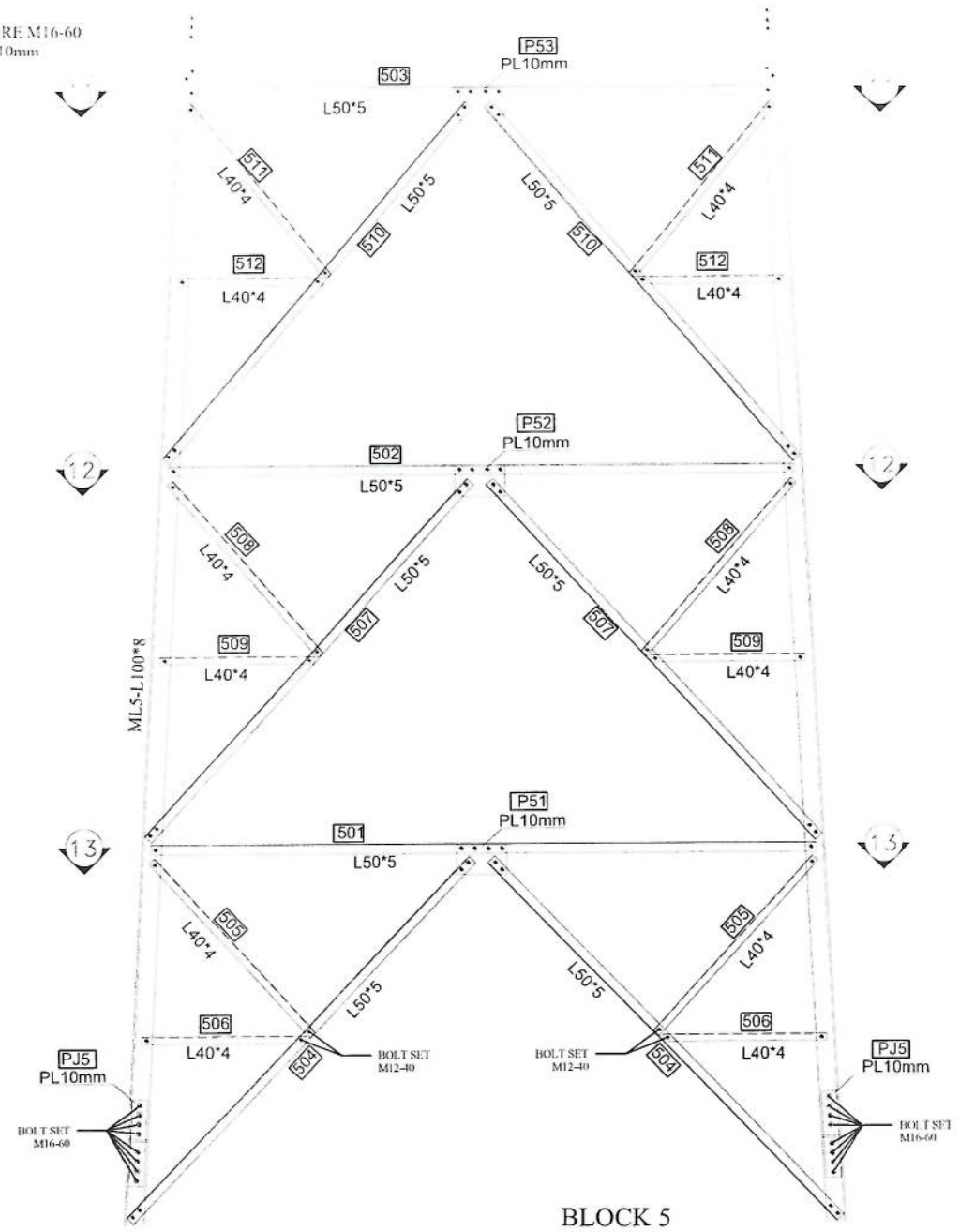
TITLE: APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

CONTRACTOR: SULTAN MASOOM

DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

| SCALE: | FORMAT: A1 | DESIGN STAGE: DETAIL DESIGN | | |
|---|---|---|---|---|
| DAKALSAZAN DWG NO: | | | REV: | SH. / TOTAL |
| --- | | | 0 | 1 OF 20 |

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




BLOCK 5

| Block | Mark | Description | Length | WEIGHT | Qty | Total Weight |
|---|---|---|---|---|---|---|
| BL5 | ML5 | L 100X8 | 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 | L 40X4 | 1.24 | 3.052508 | 8 | 24.420064 |
| BL5 | 506 | L 40X4 | 0.818 | 2.0136706 | 8 | 16.1093648 |
| BL5 | 507 | L50X5 | 2.577 | 9.9005763 | 8 | 79.2046104 |
| BL5 | 508 | L 40X4 | 1.208 | 2.9737336 | 8 | 23.7898688 |
| BL5 | 509 | L 40X4 | 0.771 | 1.8979707 | 8 | 15.1837656 |
| BL5 | 510 | L50X5 | 2.514 | 9.6585366 | 8 | 77.2682928 |
| BL5 | 511 | L 40X4 | 1.177 | 2.8974209 | 8 | 23.1793672 |
| BL5 | 512 | L 40X4 | 0.724 | 1.7822708 | 8 | 14.2581664 |
| BL5 | L503 | L 60X5 | 1.98 | 9.197694 | 3 | 27.593082 |
| BL5 | S 503 | L 60X5 | 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 |

| | | | | | |
|---|---|---|---|---|---|
| 2 | FIRST ISSUE | ASH | MH | SURV | ASH |
| REV | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR | MH | DATE |

CLIENT: AFGHAN TELECOM

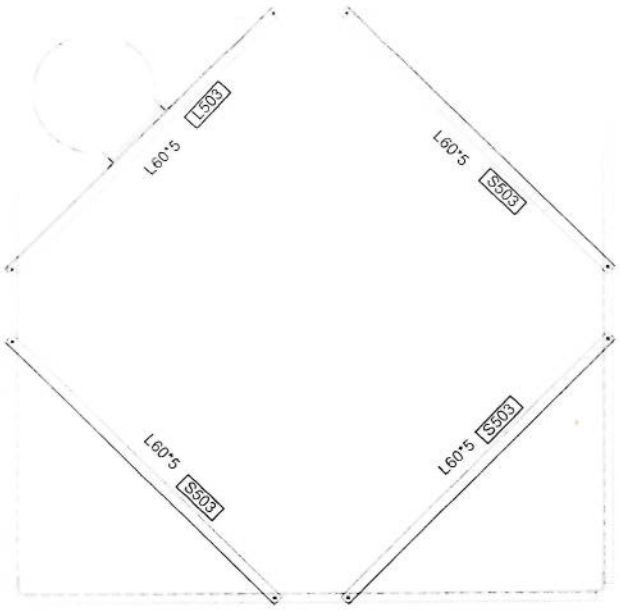
TITLE: APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

CONTRACTOR: SULTAN MASOOM

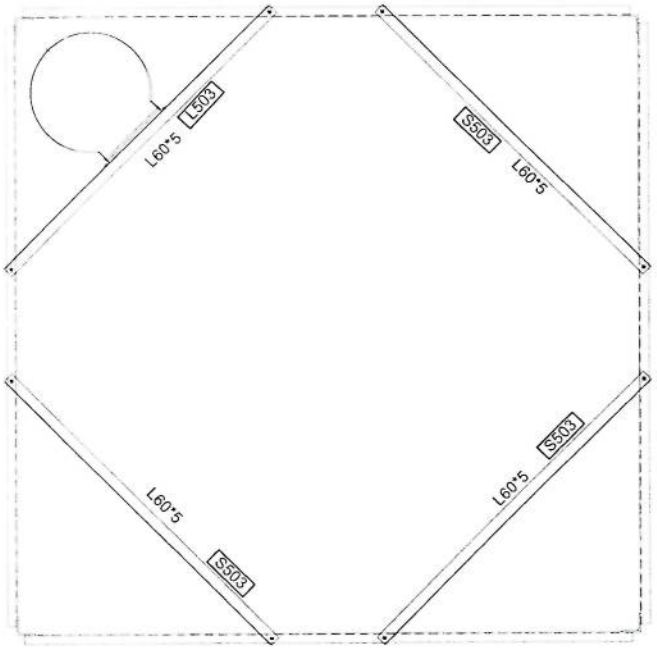
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

SCALE: | FORMAT: A1 | DESIGN STAGE: | DETAIL DESIGN

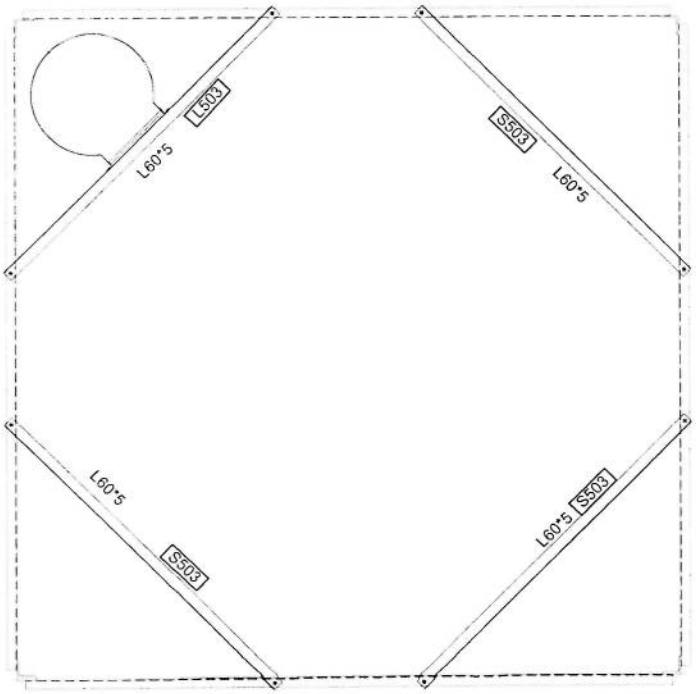
DAKALSAZAN DWG NO: -- | REV: 0 | SH: 1 OF: 20




SECTION 11-11




SECTION 12-12




SECTION 13-13

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | FIRST ISSUE | AGH | MeTeDa SURV | AGH | --- | |
| REV | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR | DATE |

CLIENT: AFGHAN TELECOM

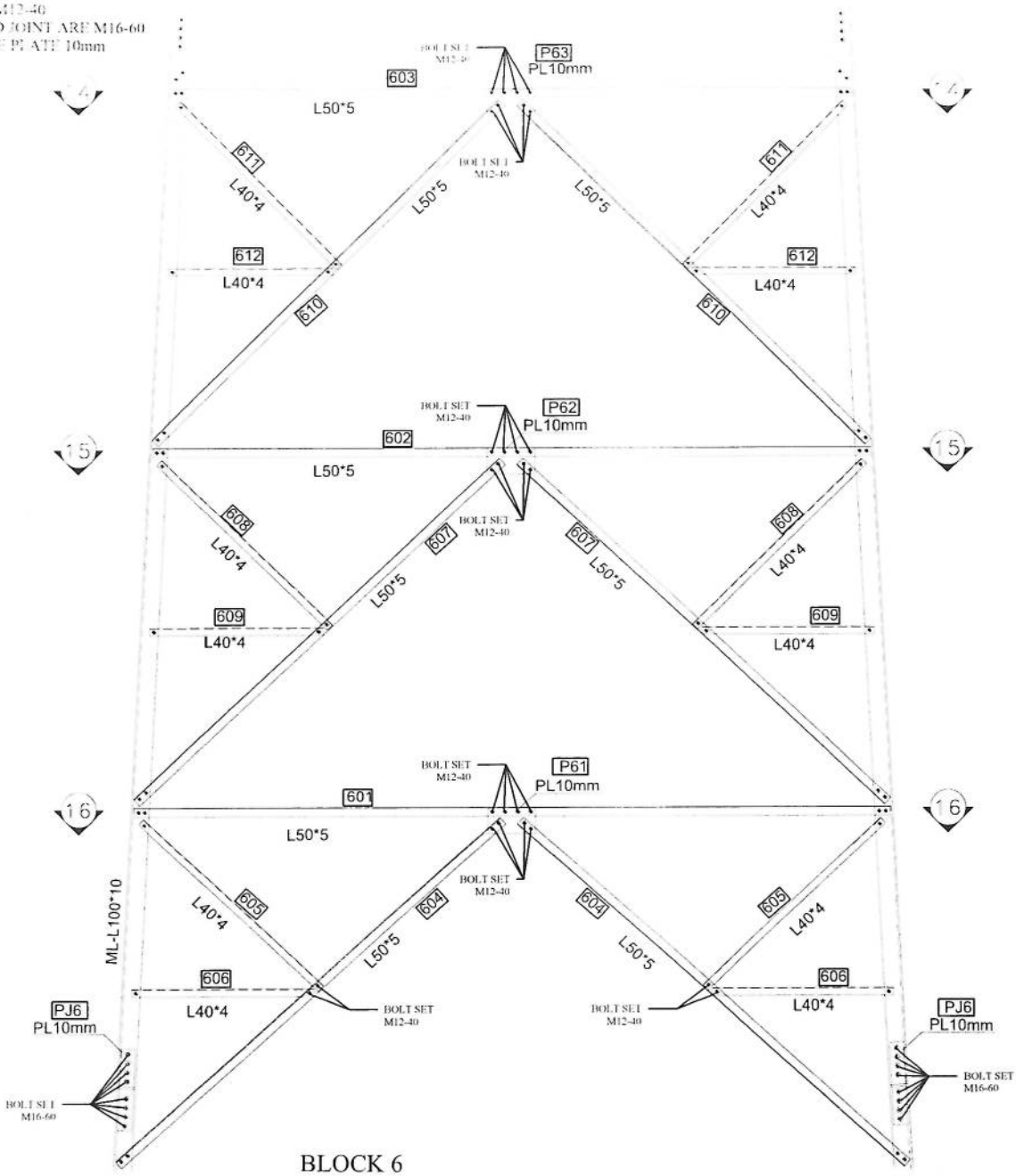
TITLE: APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

CONTRACTOR: SULTAN MASOOM ENGINEERING & ENGLISH SERVICES

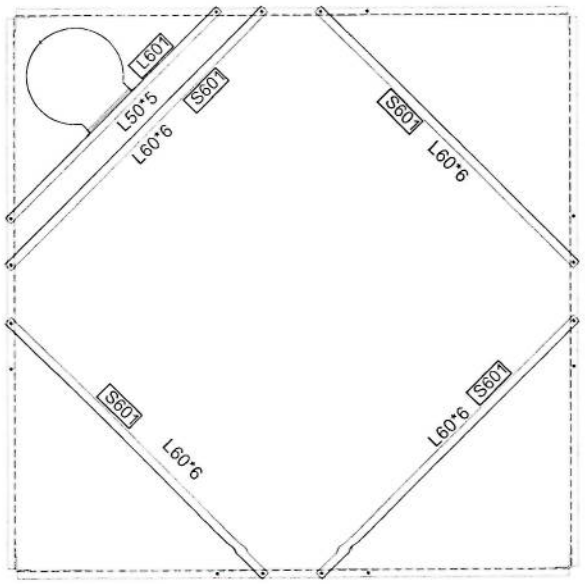
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

| SCALE | FORMAT A1 | DESIGN STAGE | DETAIL DESIGN | | |
|---|---|---|---|---|---|
| DAKALSAZAN DWG NO. | | | | REV | SH. / TOTAL |
| --- | | | | 0 | 1 OF 20 |

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




BLOCK 6




SECTION 14-14

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0 | FIRST ISSUE | AGH | MG | SDK | DSEP | AGH | - | |
| REV | DESCRIPTION | DESIGN | DRAWN | CHECK | APPD | VRF | DATE | |

CLIENT: AFGHAN TELECOM

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

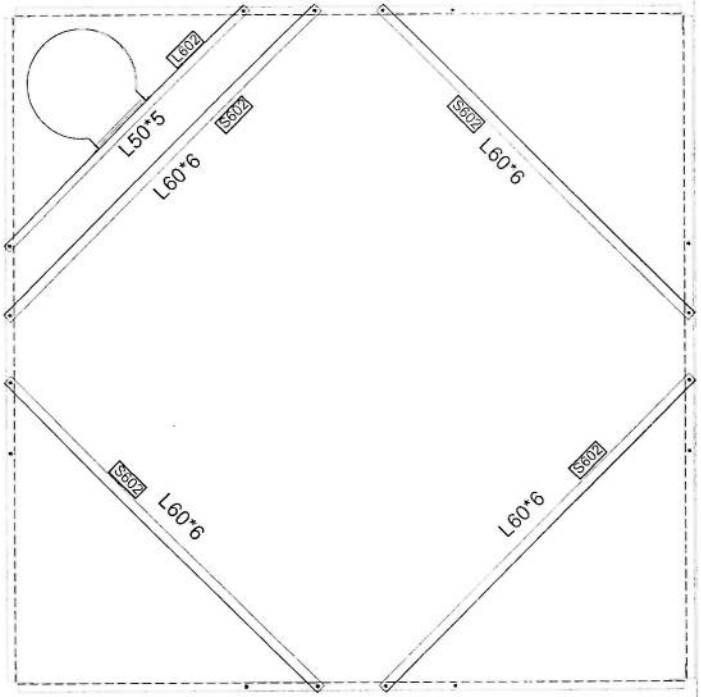
CONTRACTOR: SULTAN MISOOM

DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

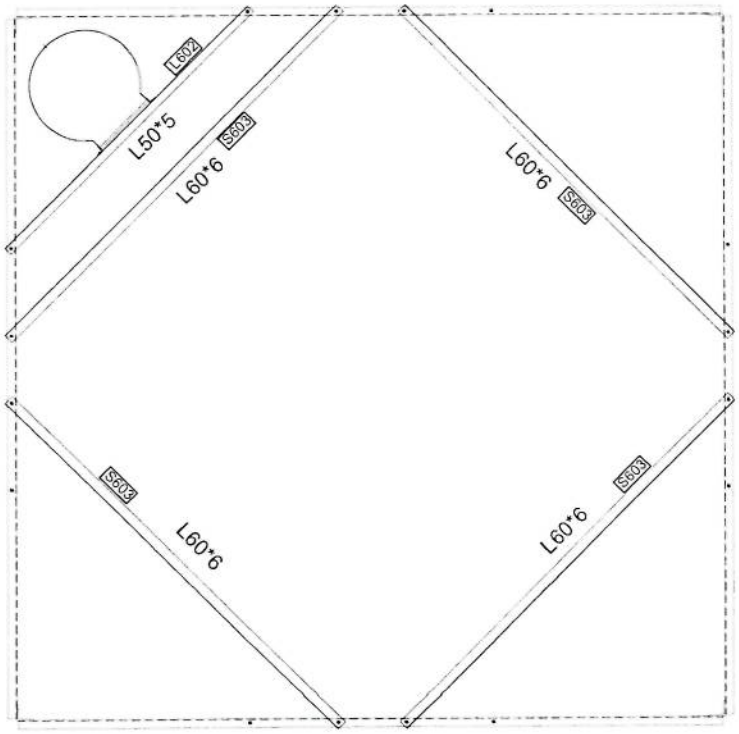
| SCALE: | FORMAT: A1 | DESIGN STAGE: DETAIL DESIGN | |
|---|---|---|---|
| DAKALSAZAN DWG NO. | | REV. | SH. / TOTAL |
| --- | | 0 | 1 OF 20 |

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

| Block | Mark | Description | Length | WEIGHT | Qty | Total Weight |
|---|---|---|---|---|---|---|
| BL6 | ML6 | L100X10 | 6.005 | 92.282438 | 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 | L 40X4 | 1.342 | 3.3036014 | 8 | 26.4288112 |
| BL6 | 606 | L 40X4 | 0.954 | 2.3484618 | 8 | 18.7876944 |
| BL6 | 607 | L50X5 | 2.781 | 10.6843239 | 8 | 85.4745912 |
| BL6 | 608 | L 40X4 | 1.306 | 3.2149802 | 8 | 25.7198416 |
| BL6 | 609 | L 40X4 | 0.906 | 2.2303002 | 8 | 17.8424016 |
| BL6 | 610 | L50X5 | 2.708 | 10.4038652 | 8 | 83.2309216 |
| BL6 | 611 | L 40X4 | 1.271 | 3.1288207 | 8 | 25.0305656 |
| BL6 | 612 | L 40X4 | 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 | P62 | 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 | MJ6 | 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 15-15




SECTION 16-16

CLIENT: AFGHAN TELECOM

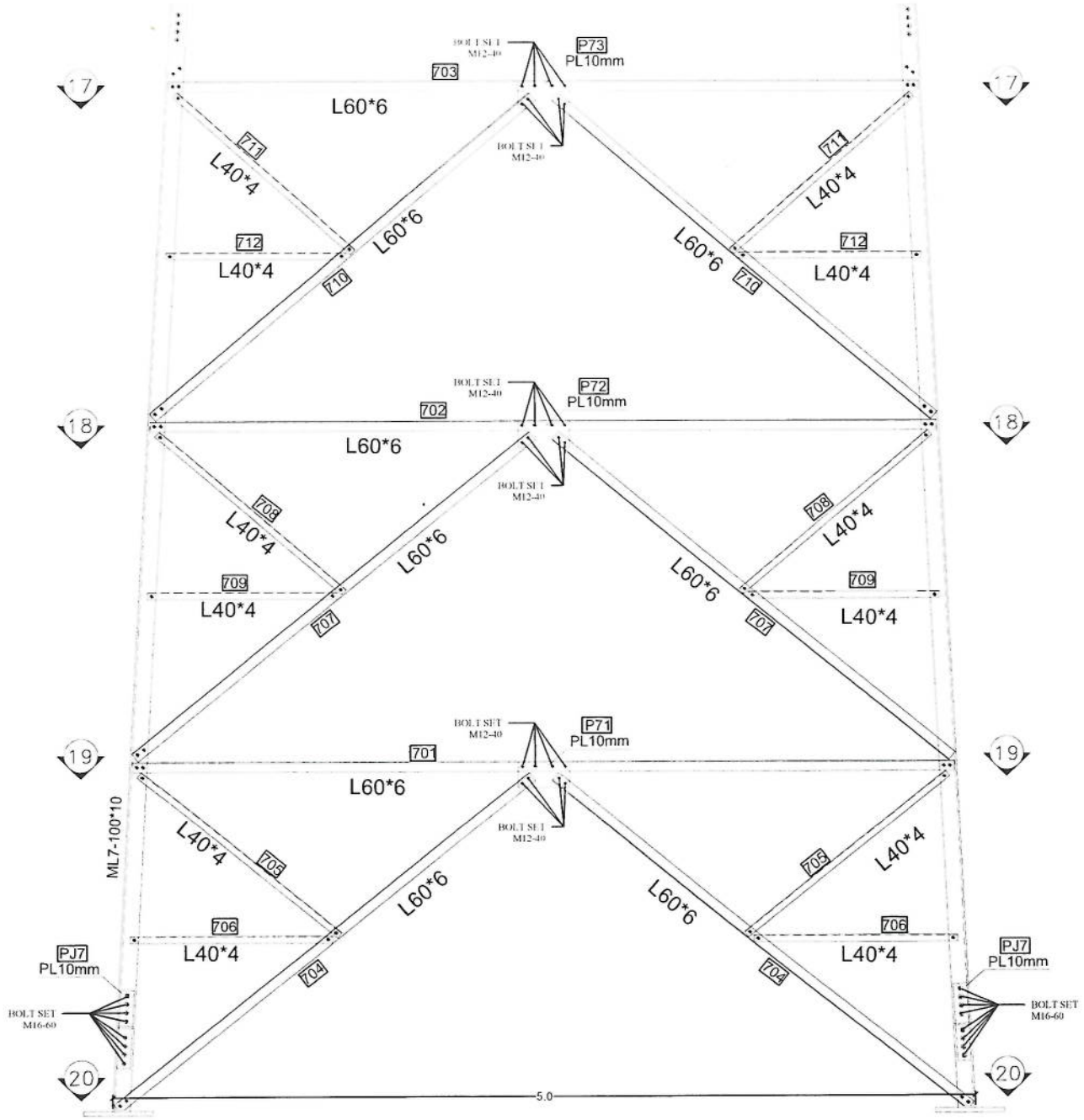
TITLE: APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK'-40m)
PANEL 4

CONTRACTOR: SULTAN MASOOM

DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO

SCALE | FORMAT A1 | DESIGN STAGE: DETAIL DESIGN
DAKALSAZAN DWG NO. | REV. 0 | SH. 1 OF 20

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




BLOCK 7

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | FIRST ISSUE | ASH | MUTEBE | DIRF | ASH | | |
| REV | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR'D | VAT | DATE |

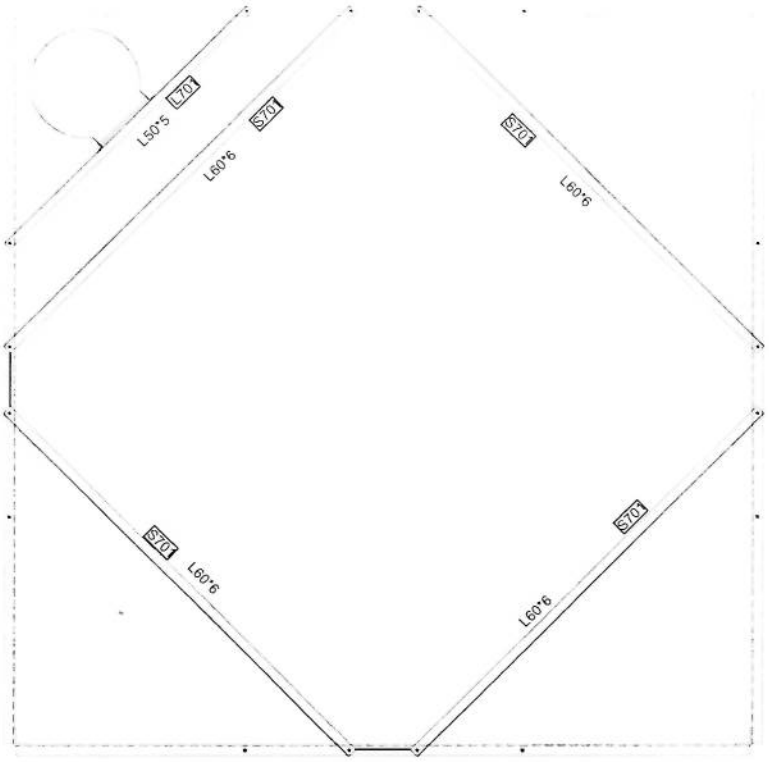
CLIENT: AFGHAN TELECOM

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

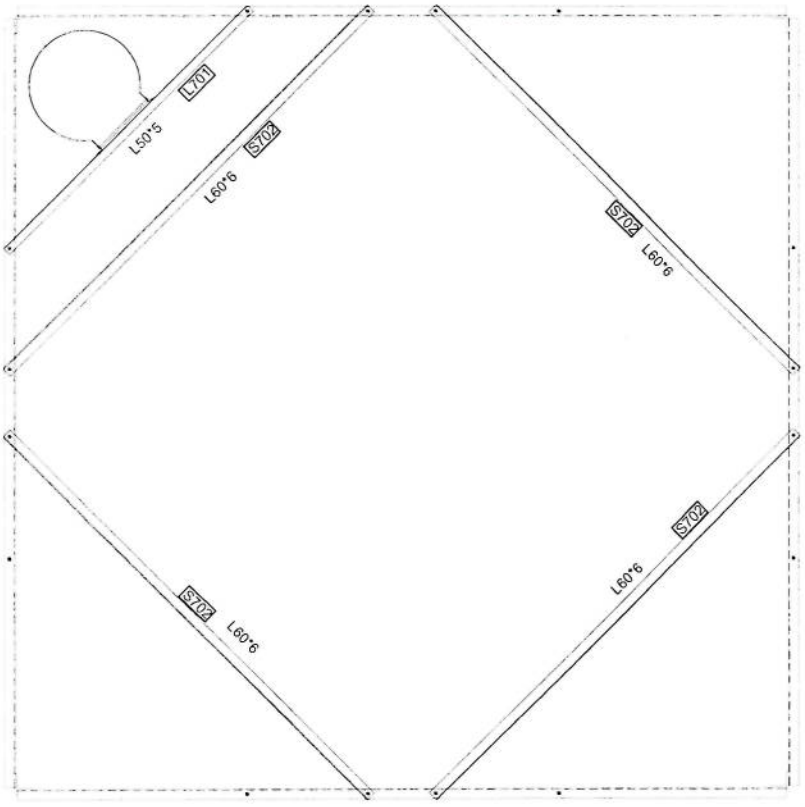
CONTRACTOR: SULTAN MASOOM

DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

| SCALE | FORMAT A1 | DESIGN STAGE: DETAIL DESIGN | |
|---|---|---|---|
| DAKALSAZAN DWG NO | | REV: | SH. / TOTAL |
| -- | | 0 | 1 OF 20 |




SECTION 17–17




SECTION 18–18

AFGHAN TELECOM

APPROVAL DRAWING

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

SULTAN MASOOM

DAKALSAZAN KALAN CO.

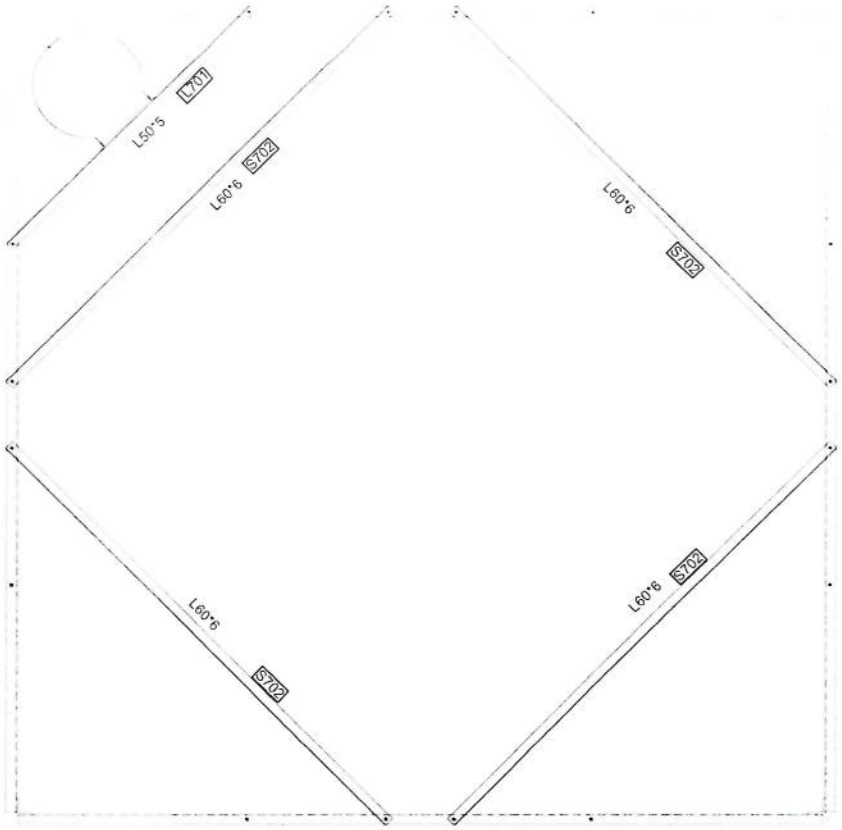
SK

OPEC

SCALE | FORMAT A1 | DESIGN STAGE DETAIL DESIGN

DAKALSAZAN DWG NO.

REV 0 | SH. 1 OF 20




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 |

CLIENT: AFGHAN TELECOM

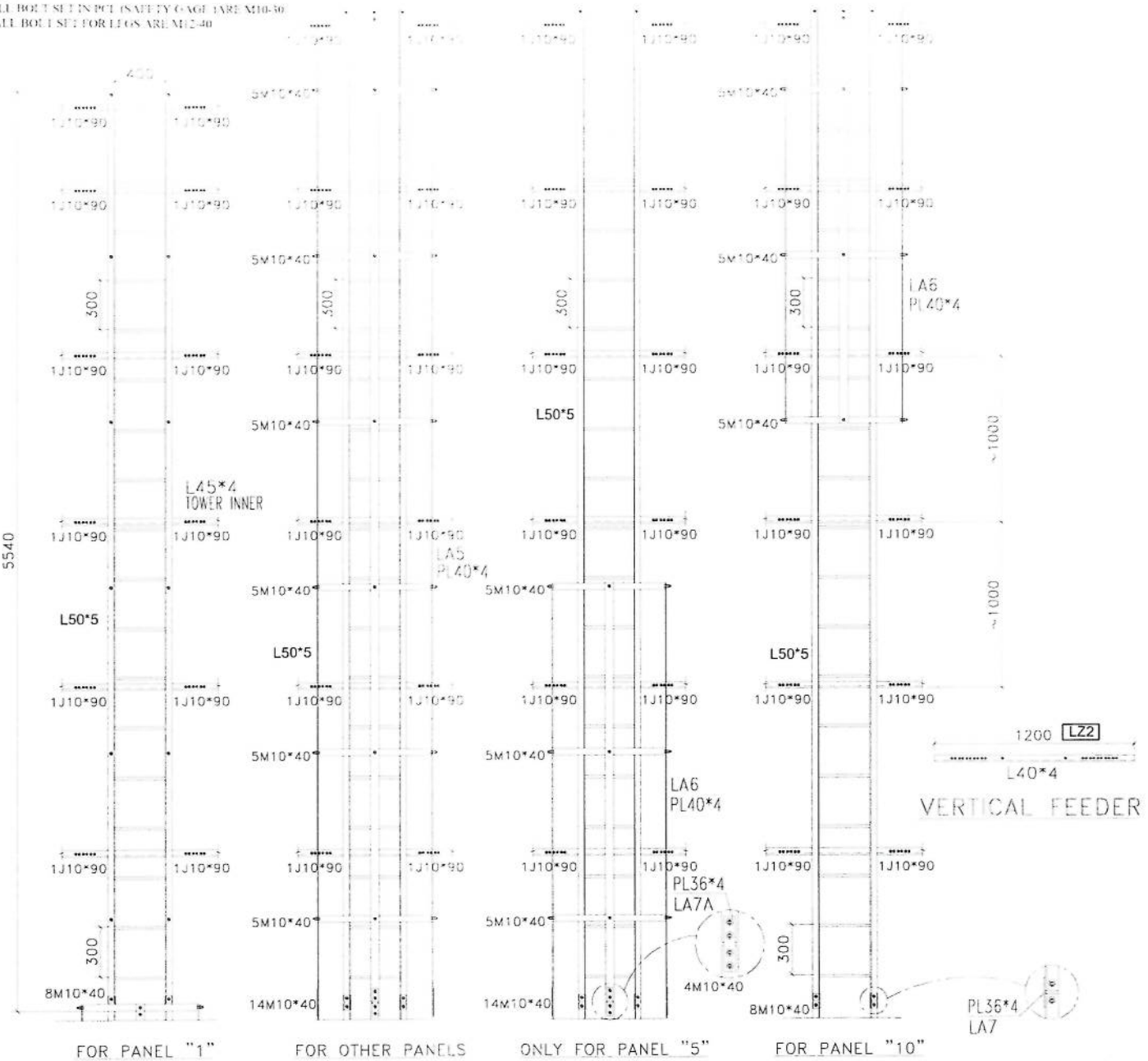
TITLE: APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

CONTRACTOR: SULTAN M.SOOM

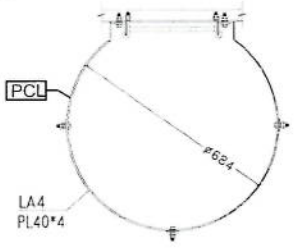
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO

SCALE | FORMAT A1 | DESIGN STAGE DETAIL DESIGN
DAKALSAZAN DWG NO. | REV 0 | SH 1 OF 20

NOTE
1. ALL BOLT SET IN PCL (SAFETY CAGE) ARE M10-30
2. ALL BOLT SET FOR LEGS ARE M12-40




| 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 | L50X5 | 5.995 | 23.0321905 | 2 | 46.064381 |
| Ladder | LL6 | L50X5 | 5.995 | 23.0321905 | 2 | 46.064381 |
| Ladder | LL5 | L50X5 | 5.995 | 23.0321905 | 2 | 46.064381 |
| Ladder | LL4 | L50X5 | 5.997 | 23.0398743 | 2 | 46.0797486 |
| Ladder | LL3 | L50X5 | 5.997 | 23.0398743 | 2 | 46.0797486 |
| Ladder | LL2 | L50X5 | 2.998 | 11.5180162 | 2 | 23.0360324 |
| Ladder | LL1 | L50X5 | 6.048 | 23.2358112 | 2 | 46.4716224 |
| Ladder | | L50X5 | 0.57 | 2.189883 | 2 | 4.379766 |
| Ladder | ROD | Φ16 | 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 | Φ10 | 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 |




LADDER WITH HOOP

| REV. | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR. | VRF | DATE |
|---|---|---|---|---|---|---|---|
| 0 | FIRST ISSUE | ASH | MASOOD | ASH | ASH | | |

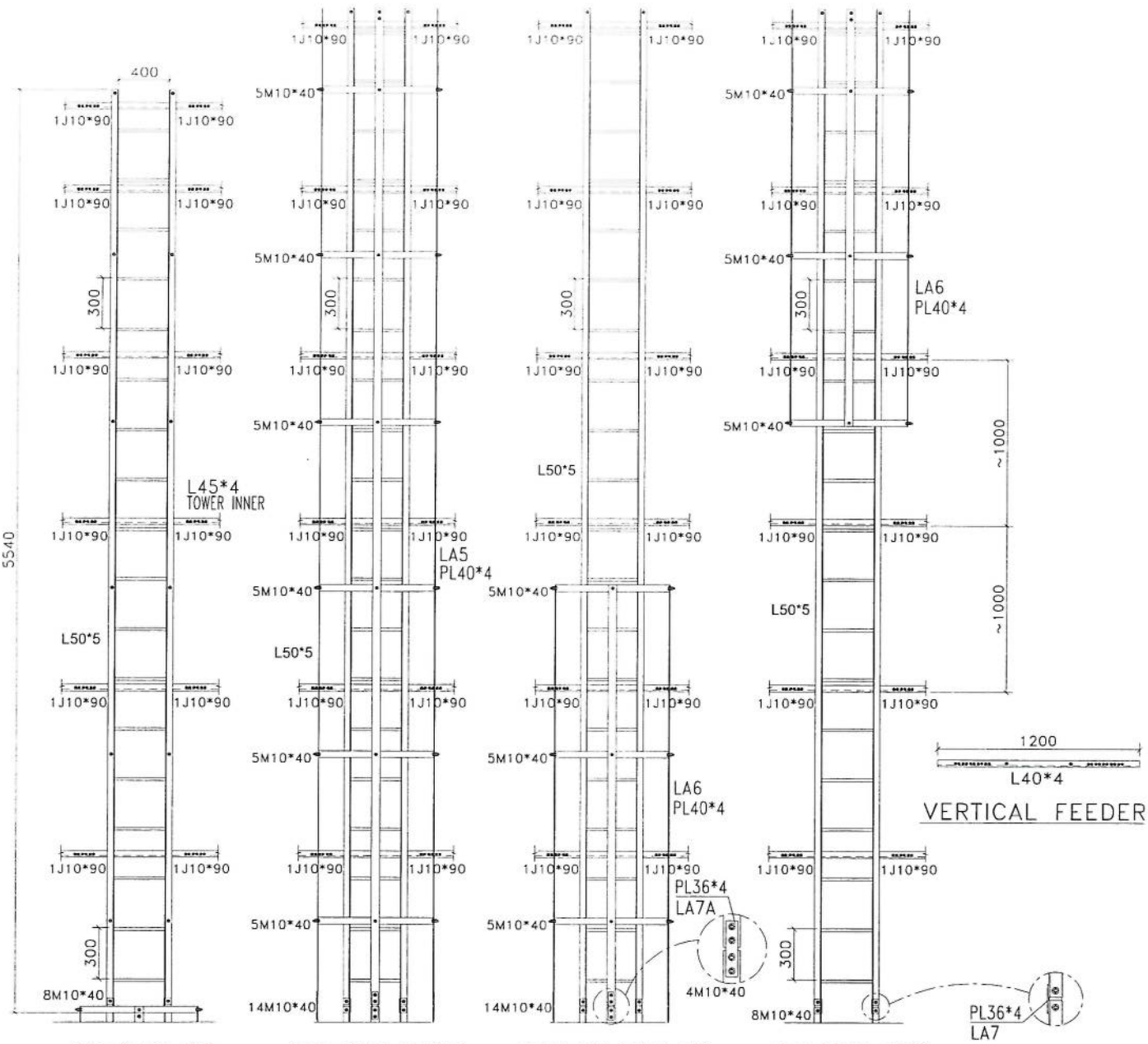
CLIENT: AFGHAN TELECOM

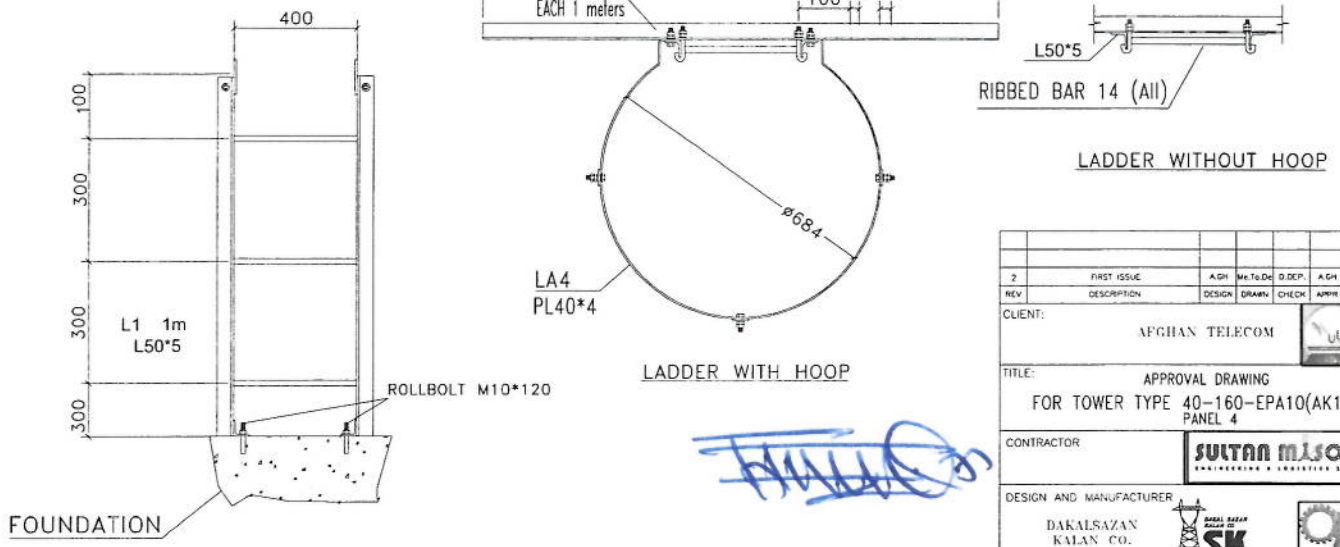
TITLE: APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

CONTRACTOR: SULTAN MASOOM

DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

| SCALE: | FORMAT: A1 | DESIGN STAGE: | DETAIL DESIGN |
|---|---|---|---|
| DAKALSAZAN DWG NO: | | REV. | SH. / TOTAL |
| -- | | 0 | 1 OF 20 |




INSTALL BOTTOM PART OF LADDERS

| REV | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR. | VRF | DATE |
|---|---|---|---|---|---|---|---|
| 2 | FIRST ISSUE | A.GH | Me.To.De | D.DEP. | A.GH | -- | |

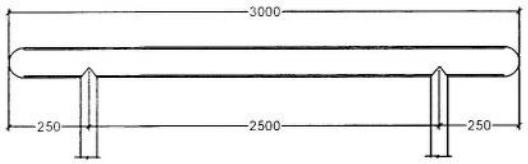
CLIENT: AFGHAN TELECOM

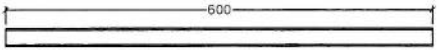
TITLE: APPROVAL DRAWING
FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4

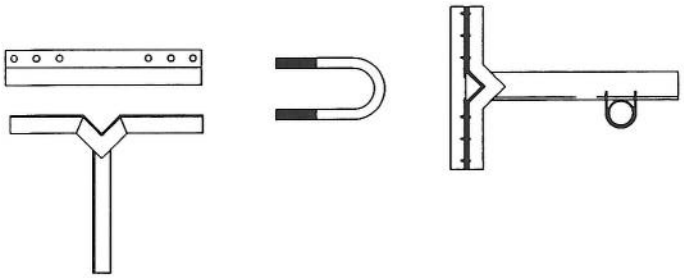
CONTRACTOR: SULTAN MASOOM ENGINEERING & LOGISTICS SERVICES

DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

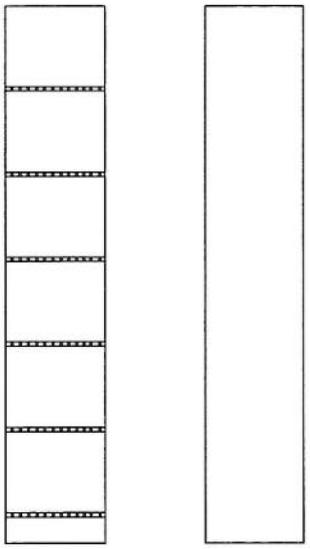
| SCALE: | FORMAT: A1 | DESIGN STAGE: DETAIL DESIGN | |
|---|---|---|---|
| DAKALSAZAN DWG NO: | | REV: | SH. /TOTAL |
| -- | | 0 | 1 OF: 20 |



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 |

| REV. | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR. | VRF | DATE |
|---|---|---|---|---|---|---|---|
| 2 | FIRST ISSUE | A.GH | Me.To.De | D.DEP. | A.GH | -- | |

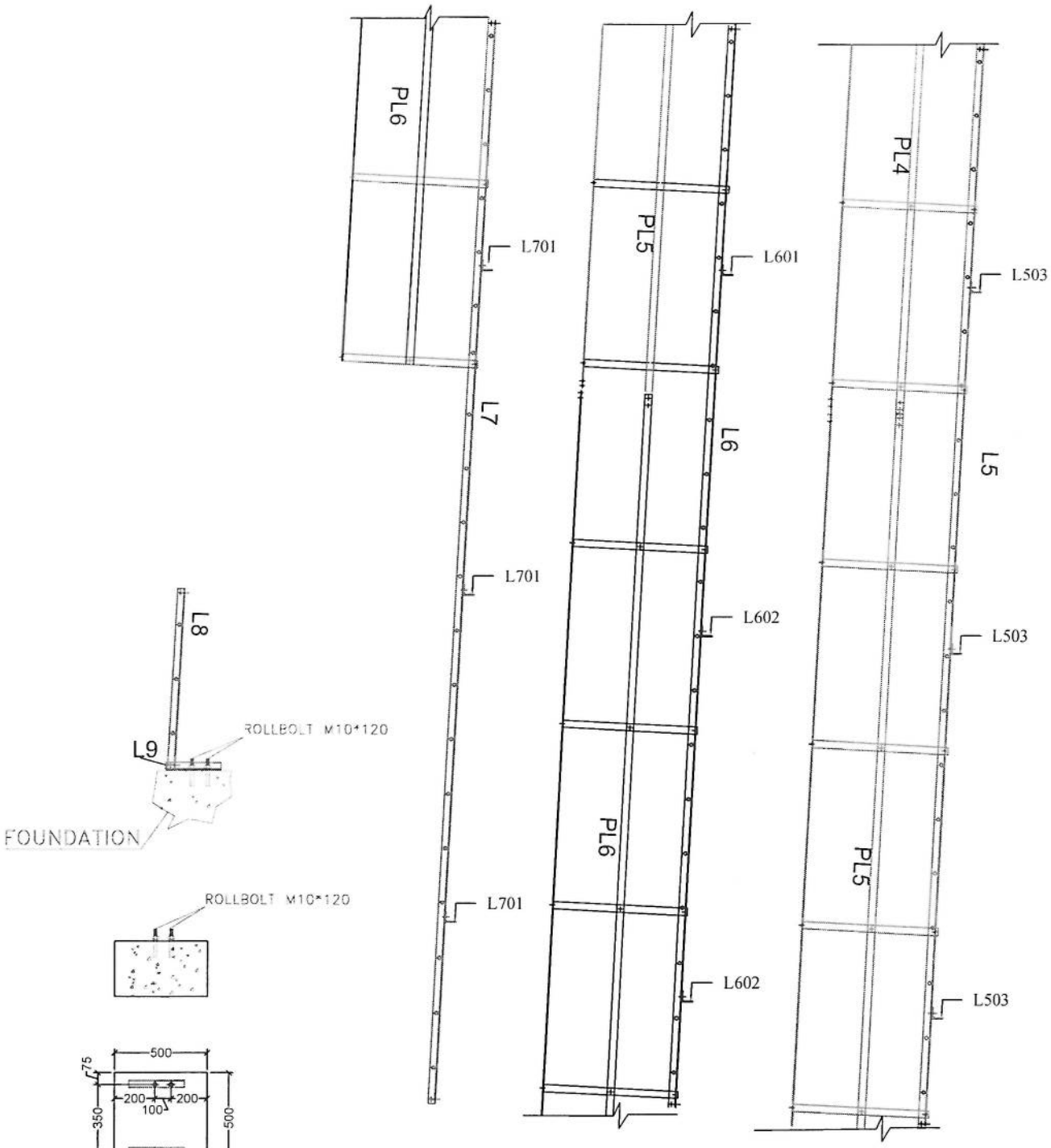
CLIENT: AFGHAN TELECOM

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

CONTRACTOR: SULTAN MASOOM

DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

| SCALE: | FORMAT: A1 | DESIGN STAGE: DETAIL DESIGN | |
|---|---|---|---|
| DAKALSAZAN DWG NO: | | REV: | SH. /TOTAL |
| -- | | 0 | 1 OF: 20 |




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | FIRST ISSUE | ASH | MOSLEH | DSEP | ASH | | | |
| REV | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR | VRF | DATE | |

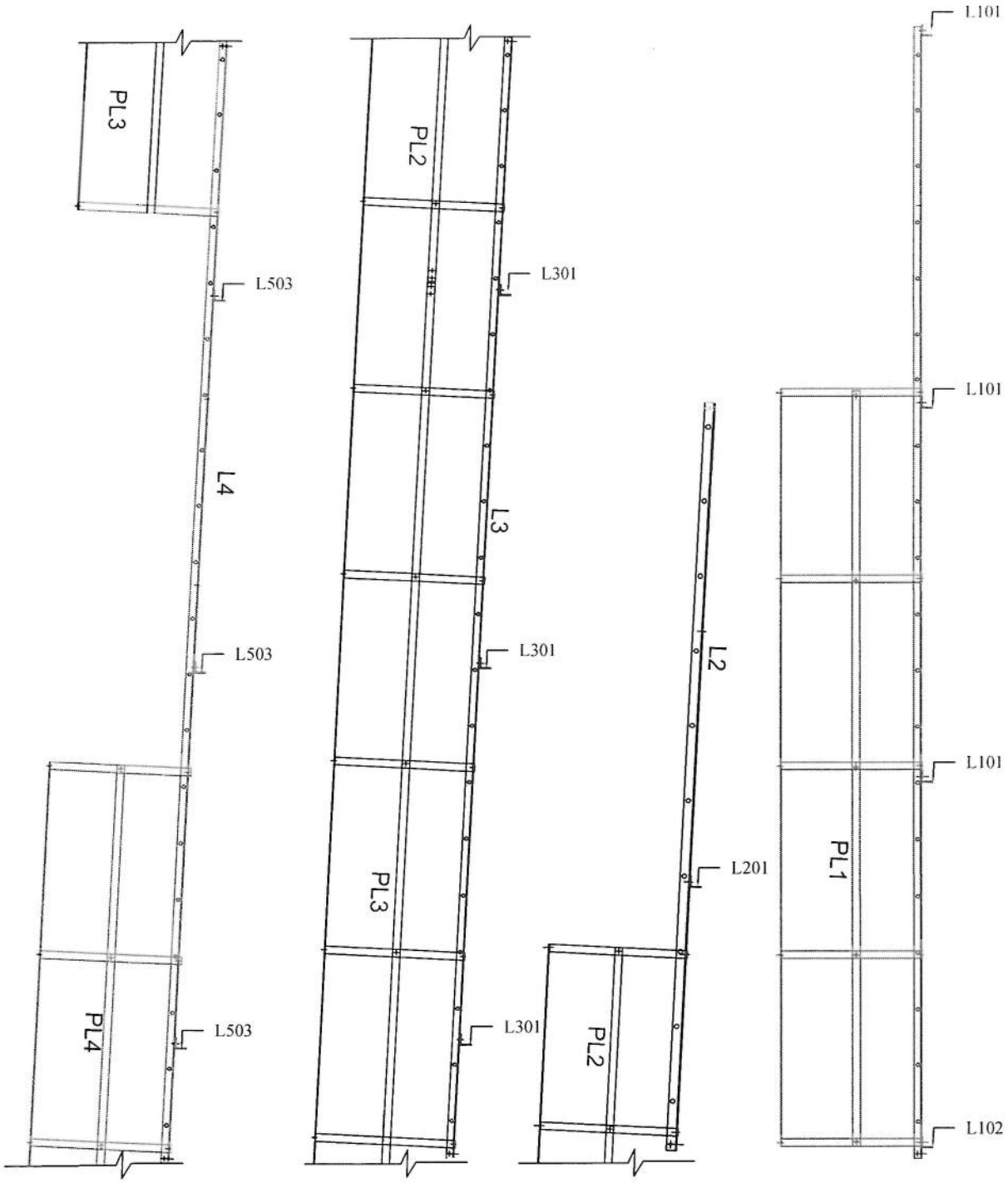
CLIENT: AFGHAN TELECOM

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 |




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | FIRST ISSUE | A.SH | M.YOUSUF | A.SH | | | |
| REV. | DESCRIPTION | DESIGN | DRAWN | CHECK | APPR. | VER. | DATE |

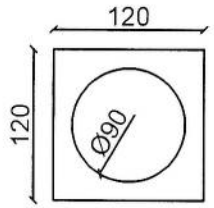
CLIENT: AFGHAN TELECOM

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

CONTRACTOR: SULTAN MASOOM

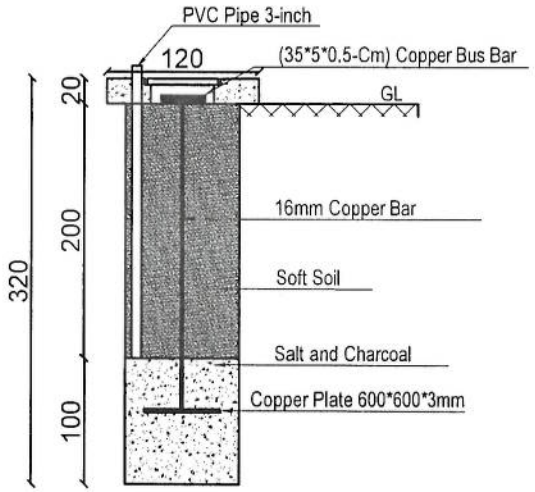
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.

| SCALE: | FORMAT: A1 | DESIGN STAGE: DETAIL DESIGN | |
|---|---|---|---|
| DAKALSAZAN DWG. NO. | | REV. | SH. / TOTAL |
| --- | | 0 | 1 OF 20 |




Plan of well-depth-3m




Detail-A
Well Section

| Item List | | |
|---|---|---|
| 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 |

23 | Grouding system- well plan & section

23 | REF. A101 | SCALE: 1:75

REVISION RECORDS
ثبت تعدیلات

| REVISION NO شماره تعدیل | DATE تاریخ | DESCRIPTION تشریحات |
|---|---|---|
| | | |

LEGEND: علایم:

PCC

PROJECT TITLE / NO:
GSM SITES
عنوان پروژه:
سایت های جی اس ام

DRAWING TITLE:
40m Tower Grounding System
سیستم ارتینگ برای تاور چهل متره

DRAWN BY: ترسیم:
CIVIL TEAM

CHECKED BY: کنترول:

APPROVED BY: منظور:

SCALE: مقیاس:
1:75

ACTUAL DATE:
10 /05/ 2025

ISSUE DATE:

DRG.NO: 23

OWNER: مالک پروژه:
AFGHAN TELECOM

سلام | Salaam Telecomunication Company
KABUL
AFGHANISTAN

# سایت های شاهراه کابل کندهار, کندهار هلمند و هرات جهت پوشش وسیع مورد تایید رهبری شرکت افغان تیلیکام

| SN | SiteID | LAT | LONG | Province | District | Add | Site Service Type | Near End Site ID | Near End Site Distence | Near End Site Traffic 3G+4G ( PS) GB Daily Base | Wear End Site Traffic 2G+3G (CS) Erling Daily Base | Tower Type | Tower Height |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | KDR379 | 31.55966 | 65.32837 | Kandahar | Kandahar | Kandahar | highway coverage | N/A | New | New | New | 30m | GMT |
| 2 | KDR118 | 31.60679 | 65.14299 | Kandahar | Kandahar | Kandahar | highway coverage | N/A | New | New | NEW | 30m | GF |
| 3 | KDR112 | 31.6799 | 64.92435 | Kandahar | Kandahar | Kandahar | highway coverage | N/A | New | New | NEW | 40m | GF |
| 4 | HLD138 | 31.79621 | 64.69001 | Helmand | Helmand | Helmand | highway coverage | N/A | New | New | NEW | 30m | GF |
| 5 | HLD139 | 31.85585 | 64.35587 | Helmand | Helmand | Helmand | highway coverage | N/A | New | New | NEW | 40m | GF |
| 6 | HLD159 | 31.9935 | 64.08412 | Helmand | Helmand | Helmand | highway coverage | N/A | New | New | NEW | 30m | GF |
| 7 | HLD141 | 32.02208 | 63.86483 | Helmand | Helmand | Helmand | highway coverage | N/A | New | New | NEW | 40m | GF |
| 8 | HLD140 | 32.08021 | 63.7121 | Helmand | Helmand | Helmand | highway coverage | N/A | New | New | NEW | 40m | GF |
| 9 | NMZ015 | 32.16021 | 63.41272 | Nimroz | Helmand | Helmand | highway coverage | N/A | New | New | NEW | 30m | GF |
| 10 | FRH027 | 32.50939 | 63.14176 | Farah | Farah | Farah | highway coverage | N/A | New | New | NEW | 30m | GF |
| 11 | FRH028 | 32.55467 | 62.88117 | Farah | Farah | Farah | highway coverage | N/A | New | New | NEW | 40m | GF |
| 12 | HRT068 | 33.08073 | 62.49592 | Herat | Herat | Herat | highway coverage | N/A | New | New | NEW | 40m | GF |
| 13 | HRT069 | 33.55392 | 62.296 | Herat | Herat | Herat | highway coverage | N/A | New | New | NEW | 70m | GF |
| 14 | HRT070 | 33.89085 | 62.21592 | Herat | Herat | Herat | highway coverage | N/A | New | New | NEW | 70m | GF |
| 15 | HRT072 | 34.03667 | 62.21533 | Herat | Herat | Herat | highway coverage | N/A | New | New | NEW | 30m | GF |
| 16 | HRT073 | 34.13366 | 62.22504 | Herat | Herat | Herat | highway coverage | N/A | New | New | NEW | 40m | GF |
| 17 | GZI008 | 33.66647 | 68.4802 | Gghazni | Ghazni | Ghazni | highway coverage | N/A | New | New | NEW | 30m | GMT |

| | | | | | |
|---|---|---|---|---|---|
| محمد هارون محمدی | سید محمد افضل افضلی | محمد جان روفی | حکمت الله ستانکزی | اسدالله توخی | ولایت خان عظیمی |
| وارسی کننده معاونیت عملیاتی بیسیم | رییس انجنیری بیسیم | آمر ترانسمیشن | آمر RF & BSS | مدیر پلاننگ ترانسمیشن | مدیر RF Optimization |

علی احمد سامند

رئیس اجرایوی شرکت افغان تیلی کام