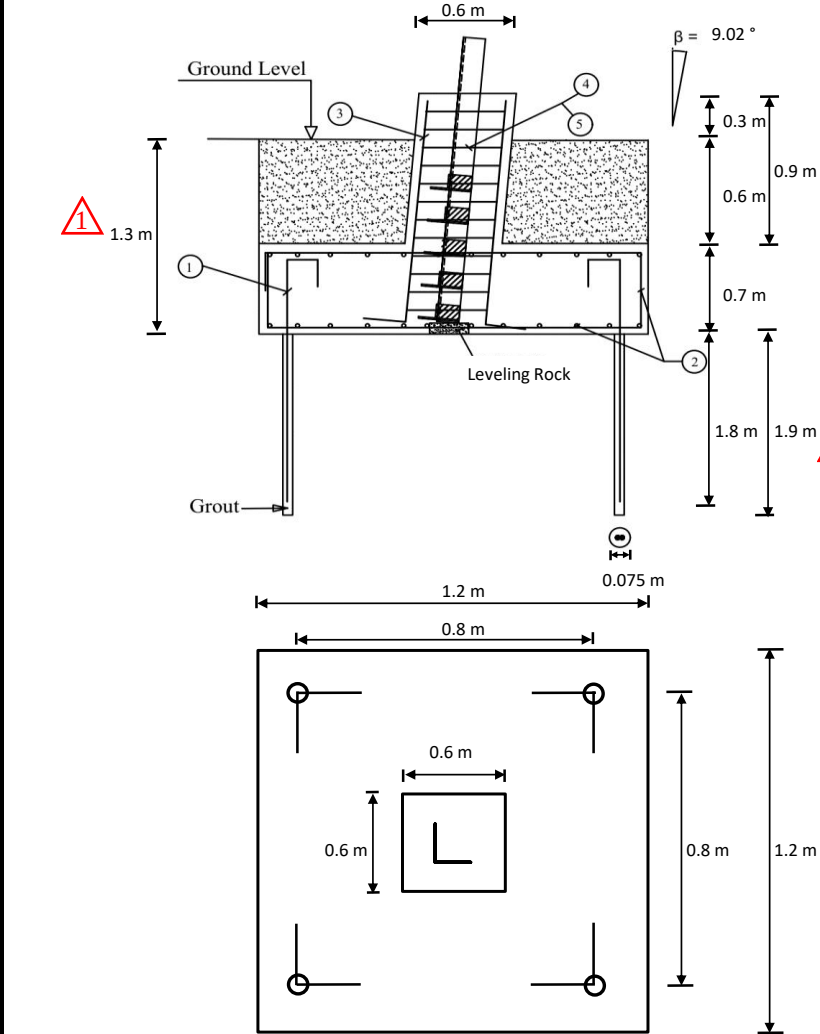


Construction of
220 kV Loop in Loop out Paliastomi- into Ozurgeti Substation and
110 kV Double Circuit (D/C) Overhead Line from Ozurgeti Substation to Zoti HPP

Foundation Drawings of Tower Type "12B-LC"
(for all soil types)

1	20/10/2022	Revised as per Consultant Comments	D. Nezamolmolki	H.O.Bulut	K. Karagoz
0	21/07/22	First Submission	D. Nezamolmolki	H.O.Bulut	K. Karagoz
Rev. No.	Date	Description	Designed by	Checked by	Approved by
Employer Logo and Business Name			Project Name		
 GEORGIAN STATE ELECTROSYSTEM 2 Baratashvili Street Tbilisi 0105 Georgia			Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286		
Engineer logo and business name			Contract Identification Number		
 Fichtner GmbH & Co. KG Sarweystrasse 3 70191 Stuttgart / Germany			KfW/DSI/OHL-TD-Lot 2		
Contractor logo and business name			Document Number		
 MITAS Energy & Metal Construction Inc. Eski Güvercinlik Yolu No: 113 Gazi 06560 Ankara / Turkey			7145A07-EG-FND-DWG-0612_01		
Document Title			Scale	Sheet of Sheets	
Foundation Drawings of Tower Type "12B-LC" (for all soil types)			n.a.	Page 1 of 10	

Soil Type:	Type 1-Sound Rock
Foundation Type:	Rock Anchor
Tower Type:	12B-LC



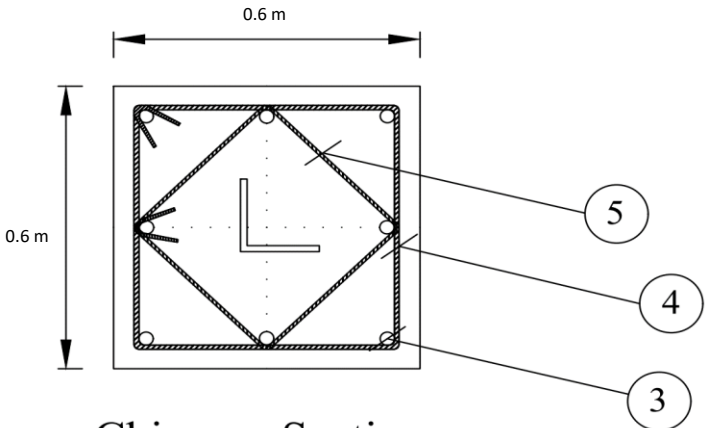
Dimensions (m)		
Width of Pad	bp =	1.20
Height of Pad	hp =	0.70
Width of Chimney	bc =	0.60
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	0.60
Total Height of Chimney	hc =	0.90
No. of Anchor Hole Rows	n =	2
No. of Anchor in one hole	m =	2
Total No. of Anchor Holes	i =	4
Distance of Anchor Rows	C =	0.800
Embedded Length of Anchors in Ground	L =	1.80
Anchor Hole Diameter (Minimum Value)	Dh =	0.075
Anchor Hole Length	Lh =	1.90
Depth of Pad	H =	1.30

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	1.33	5.33
Excavation (Rock)	m3	1.87	7.49
Backfill	m3	0.54	2.16
Formwork	m2	2.16	8.64
Grout	m3	0.03	0.13
Drilling	m3	0.03	0.13
Reinforcement	kg	164	656

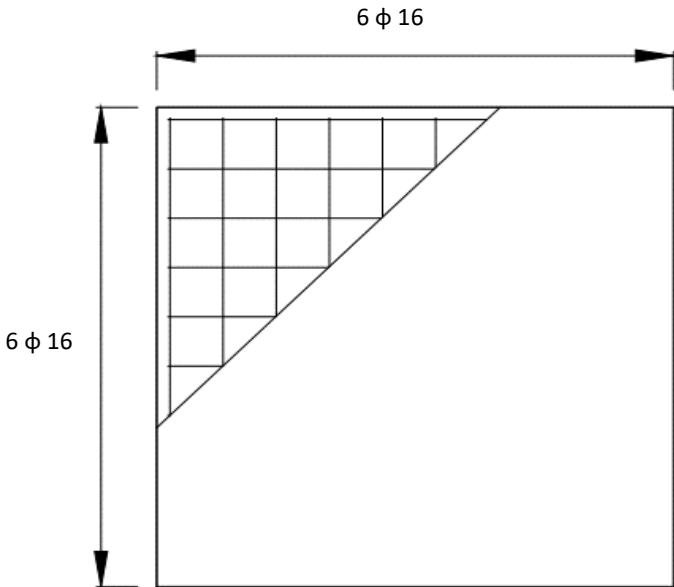
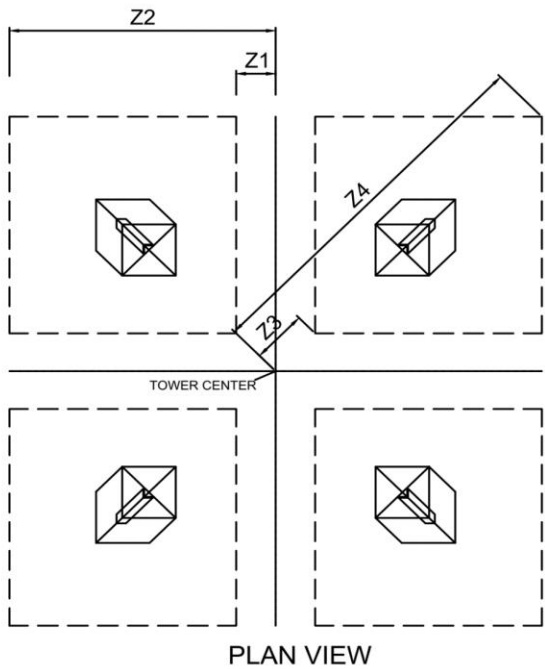
Material Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Grout and Steel Bond Stress	2.00	Mpa
Grout and Rock Bond Stress	0.90	Mpa
Concrete and Rebar Bond Stress	2.30	Mpa
Soil Density	2.55	ton/m3
Bearing Capacity of Soils	10.19	kg/cm2

- NOTES :
- 1- Concrete Class : C20/25
 - 2- Steel Reinforcement Class : S500
 - 3- Concrete Cover : 75 mm
 - 4- Soil Layer Shall Be Compacted To Maintain Soil Density.
 - 5- Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - 6- In case of high soil resistance, filling shall be done using soil with low resistance.
 - 7- Concrete surface shall be covered with bitumen in case of aggressive soil conditions
 - 8- Expanding Grout to be used as per Technical Specification or Manufacturer Instruction.

Mark	Pattern	Length (cm)	Diameter (mm)	Unit Weight (kg)	QTY	Total Weight
1		290	20	7.16	8	57.3
2		355	16	5.61	12	67.3
3		180	16	2.84	8	22.8
4		210	8	0.83	12	9.7
5		153	8	0.60	12	7.0
SUM						164.1



Chimney Section



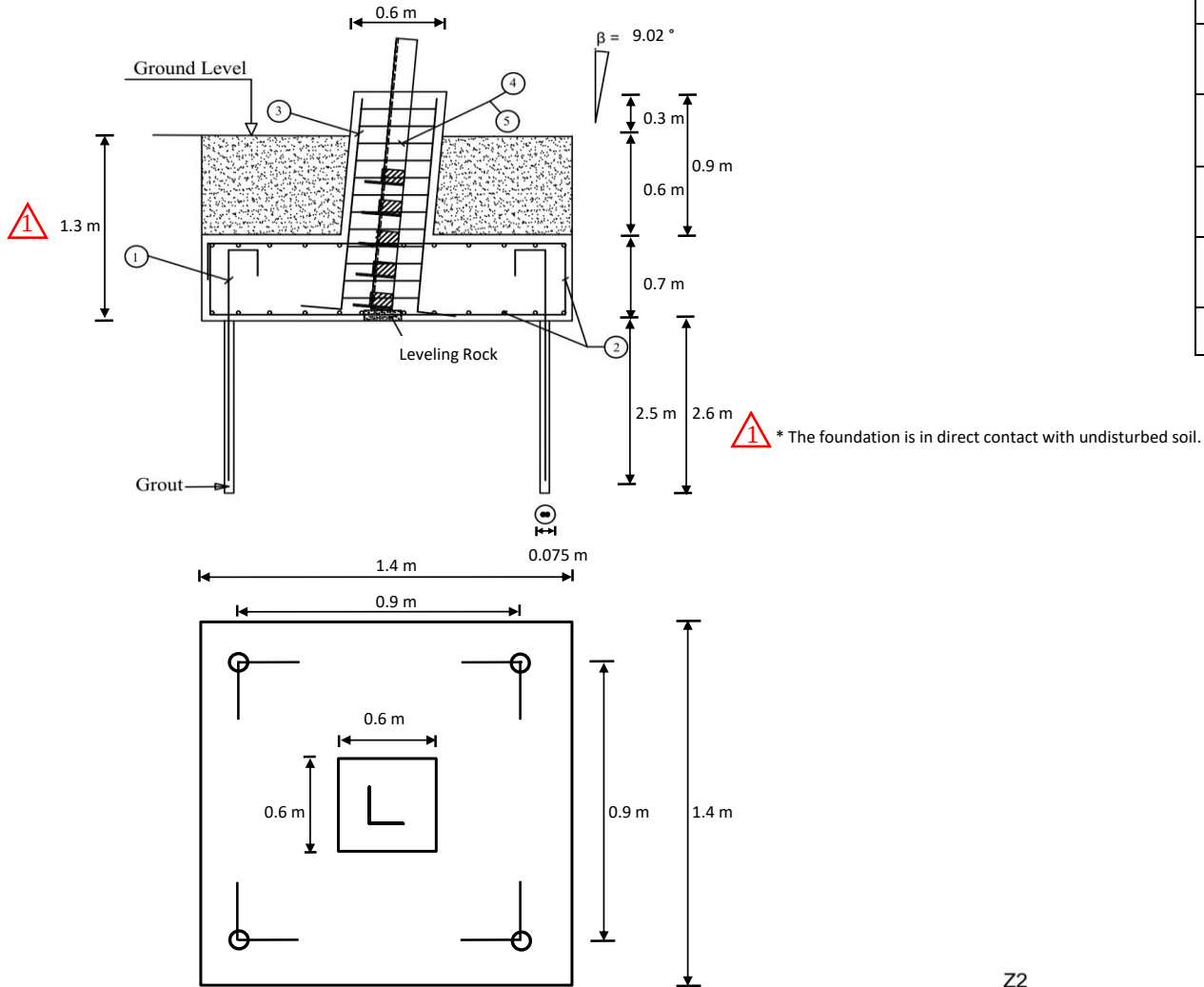
Pad Rebars

BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2951	4151	4174	5871
	-1.5	3189	4389	4511	6208
	+0	3428	4628	4847	6544
	+1.5	3666	4866	5184	6881
	+3	3904	5104	5521	7218
	+4.5	4142	5342	5858	7555
BE+0	+6	4380	5580	6195	7892
	-3	3428	4628	4847	6544
	-1.5	3666	4866	5184	6881
	+0	3904	5104	5521	7218
	+1.5	4142	5342	5858	7555
	+3	4380	5580	6195	7892
BE+3	+4.5	4618	5818	6531	8229
	+6	4857	6057	6868	8565
	-3	3904	5104	5521	7218
	-1.5	4142	5342	5858	7555
	+0	4380	5580	6195	7892
	+1.5	4618	5818	6531	8229
BE+6	+3	4857	6057	6868	8565
	+4.5	5095	6295	7205	8902
	+6	5333	6533	7542	9239
	-3	4380	5580	6195	7892
	-1.5	4618	5818	6531	8229
	+0	4857	6057	6868	8565
BE+9	+1.5	5095	6295	7205	8902
	+3	5333	6533	7542	9239
	+4.5	5571	6771	7879	9576
	+6	5809	7009	8215	9913
	-3	4857	6057	6868	8565
	-1.5	5095	6295	7205	8902
BE+12	+0	5333	6533	7542	9239
	+3	5809	7009	8215	9913
	+4.5	6047	7247	8552	10249
	+6	6285	7485	8889	10586
	-3	5333	6533	7542	9239
	-1.5	5571	6771	7879	9576

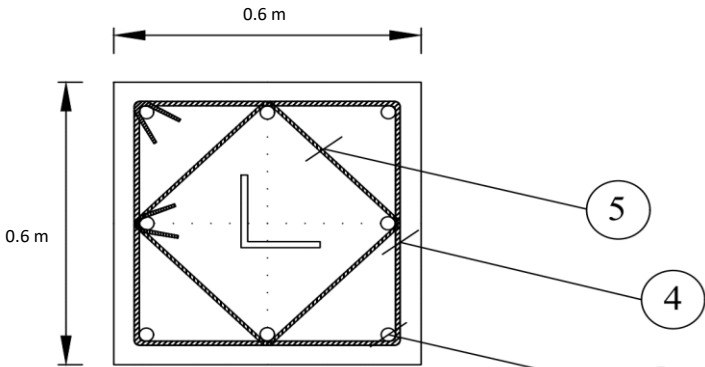
* All dimensions and quantities shall be checked prior to construction

1	Revised as per Consultant Comments	21.10.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2 EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de			
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეტანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:			
DATE OF REVIEW / განხილვის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ	Foundation Drawings of Tower Type " 12B-LC " Soil Type 1-Sound Rock Rock Anchor Foundation	
CHECKED BY / მომოწმებულია:	H.O.BULUT		
DESIGNED BY / ავტორი:	D. Nezamolmolki		
DRAWN BY / მეშმრელებელი:	D. Nezamolmolki		
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22		
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0612_01	1	2 of 10

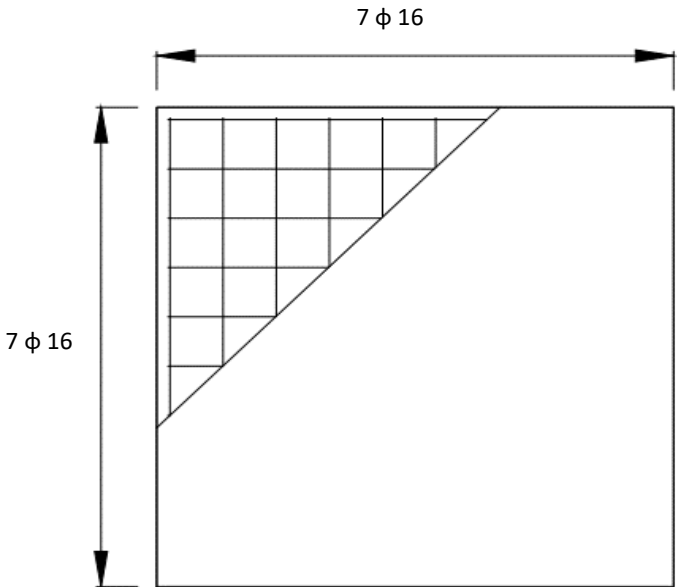
Soil Type:	Type 2-Deleterious Rock
Foundation Type:	Rock Anchor
Tower Type:	12B-LC



Mark	Pattern	Length (cm)	Diameter (mm)	Unit Weight (kg)	QTY	Total Weight
1	310	360	20	8.89	8	71.1
2	125	395	16	6.24	14	87.4
3	145	180	16	2.84	8	22.8
4	47	210	8	0.83	12	9.7
5	33	153	8	0.60	12	7.0
SUM						198.0



Chimney Section



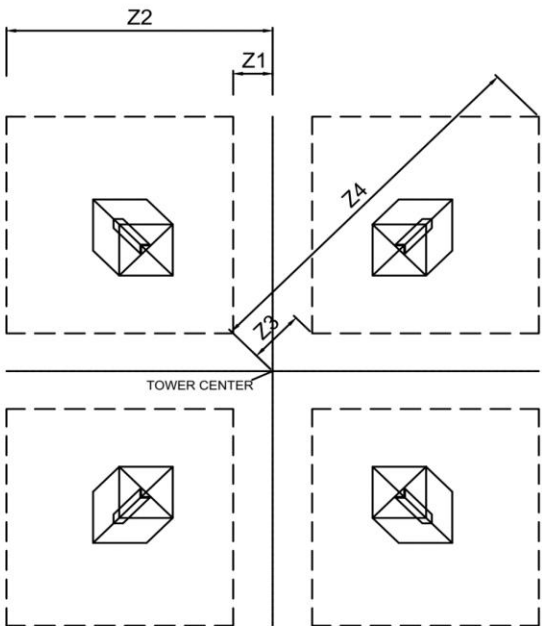
Pad Rebars

Dimensions (m)		
Width of Pad	bp =	1.40
Height of Pad	hp =	0.70
Width of Chimney	bc =	0.60
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	0.60
Total Height of Chimney	hc =	0.90
No. of Anchor Hole Rows	n =	2
No. of Anchor in one hole	m =	2
Total No. of Anchor Holes	i =	4
Distance of Anchor Rows	C =	0.900
Embedded Length of Anchors in Ground	L =	2.50
Anchor Hole Diameter (Minimum Value)	Dh =	0.075
Anchor Hole Length	Lh =	2.60
Depth of Pad	H =	1.30

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	1.70	6.78
Excavation (Rock)	m3	2.55	10.19
Backfill	m3	0.85	3.41
Formwork	m2	2.16	8.64
Grout	m3	0.05	0.18
Drilling	m3	0.05	0.18
Reinforcement	kg	198	792

Material Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Grout and Steel Bond Stress	2.00	Mpa
Grout and Rock Bond Stress	0.60	Mpa
Concrete and Rebar Bond Stress	2.30	Mpa
Soil Density	2.04	ton/m3
Bearing Capacity of Soils	5.10	kg/cm2

- NOTES :
- 1- Concrete Class : C20/25
 - 2- Steel Reinforcement Class : S500
 - 3- Concrete Cover : 75 mm
 - 4- Soil Layer Shall Be Compacted To Maintain Soil Density.
 - 5- Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - 6- In case of high soil resistance, filling shall be done using soil with low resistance.
 - 7- Concrete surface shall be covered with bitumen in case of aggressive soil conditions
 - 8- Expanding Grout to be used as per Technical Specification or Manufacturer Instruction.



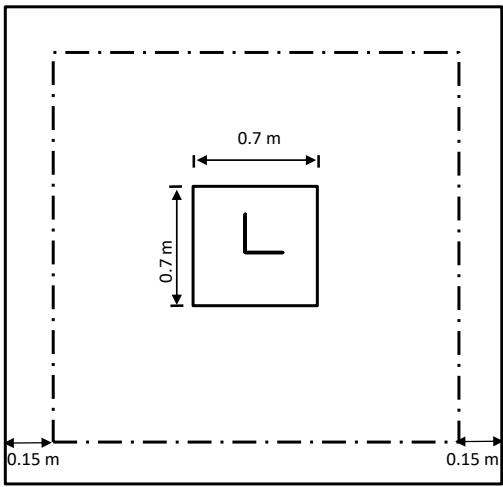
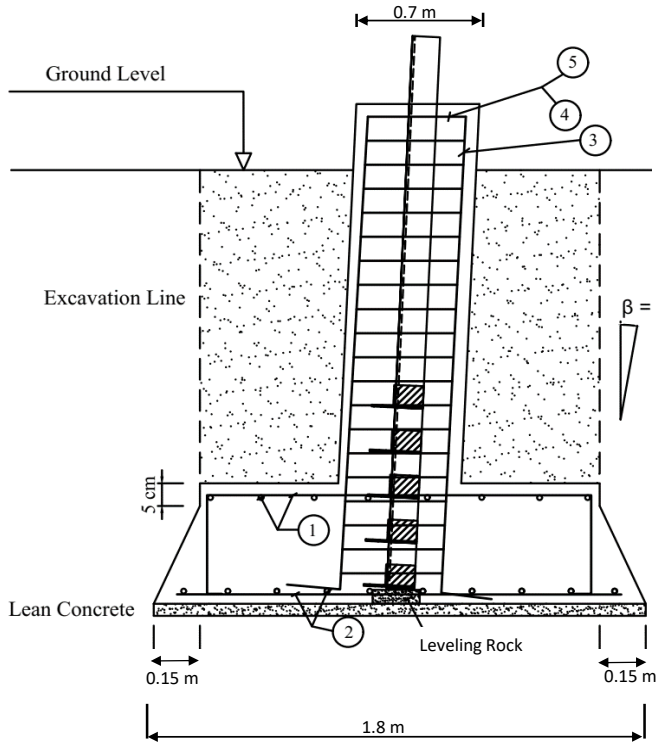
PLAN VIEW

BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2851	4251	4032	6012
	-1.5	3089	4489	4369	6349
	+0	3328	4728	4706	6686
	+1.5	3566	4966	5043	7023
	+3	3804	5204	5380	7360
	+4.5	4042	5442	5716	7696
BE+0	+6	4280	5680	6053	8033
	-3	3328	4728	4706	6686
	-1.5	3566	4966	5043	7023
	+0	3804	5204	5380	7360
	+1.5	4042	5442	5716	7696
	+3	4280	5680	6053	8033
BE+3	+4.5	4518	5918	6390	8370
	+6	4757	6157	6727	8707
	-3	3804	5204	5380	7360
	-1.5	4042	5442	5716	7696
	+0	4280	5680	6053	8033
	+1.5	4518	5918	6390	8370
BE+6	+3	4757	6157	6727	8707
	+4.5	4995	6395	7064	9044
	+6	5233	6633	7400	9380
	-3	4280	5680	6053	8033
	-1.5	4518	5918	6390	8370
	+0	4757	6157	6727	8707
BE+9	+1.5	4995	6395	7064	9044
	+3	5233	6633	7400	9380
	+4.5	5471	6871	7737	9717
	+6	5709	7109	8074	10054
	-3	4757	6157	6727	8707
	-1.5	4995	6395	7064	9044
BE+12	+0	5233	6633	7400	9380
	+3	5709	7109	8074	10054
	+4.5	5947	7347	8411	10391
	+6	6185	7585	8748	10728
	-3	5233	6633	7400	9380
	-1.5	5471	6871	7737	9717

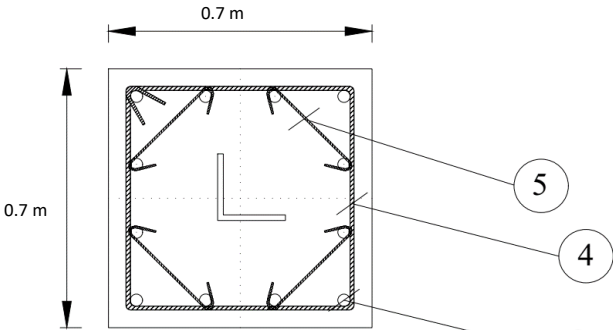
* All dimensions and quantities shall be checked prior to construction

1	Revised as per Consultant Comments	21.10.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2 EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:		Foundation Drawings of Tower Type " 12B-LC "	
DATE OF REVIEW / განხილვის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ	Soil Type 2-Deleterious Rock Rock Anchor Foundation	
CHECKED BY / შემოწმებულია:	H.O.BULUT		
DESIGNED BY / ავტორი:	D. Nezamolmolki	Soil Type 2-Deleterious Rock Rock Anchor Foundation	
DRAWN BY / შემსრულებელი:	D. Nezamolmolki		
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22		
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0612_01	1	3 of 10

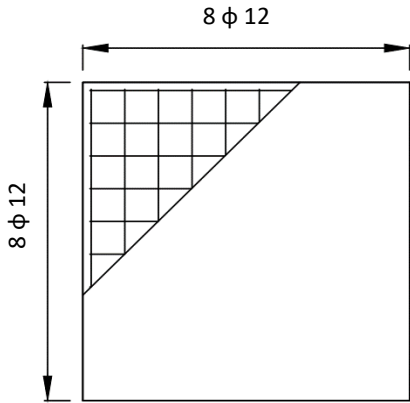
Soil Type:	Type 2-Deleterious Rock
Foundation Type:	Semi-Auger
Tower Type:	12B-LC



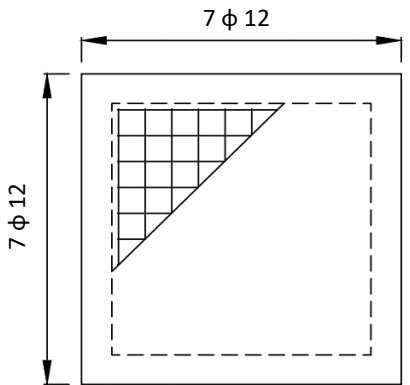
Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1	135	25	12	1.91	14	26.7
2	165	165	12	1.47	16	23.4
3	355	50	16	6.40	12	76.8
4	57	57	8	0.99	25	24.6
5	27	42	8	0.17	100	16.5
SUM						168.1



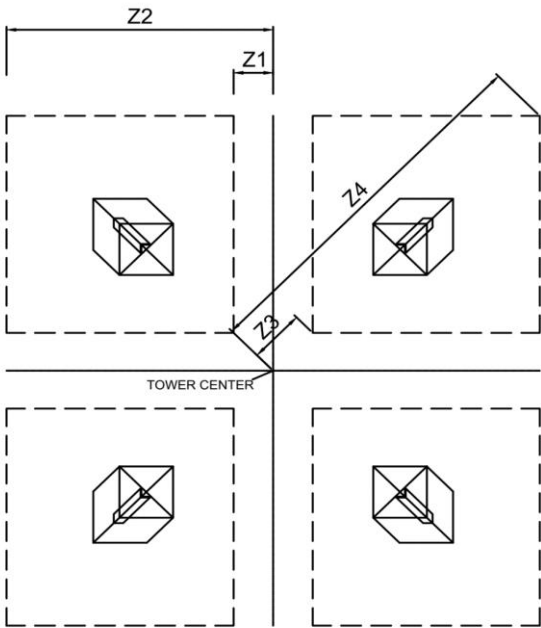
Chimney Section



Bottom of Pad



Top of Pad



PLAN VIEW

Dimensions (m)		
Width of Pad	bp =	1.80
Height of Pad	hp =	0.40
Width of Chimney	bc =	0.70
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	3.00
Depth of Pad	H =	3.40

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	2.7	10.8
Excavation	m3	7.9	31.5
Backfill	m3	5.2	20.7
Lean Concrete	m3	0.3	1.3
Formwork	m2	9.2	37.0
Reinforcement	kg	168.1	672.5

Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	2.04	ton/m3
Backfill Density	2.04	ton/m3
Bearing Capacity of Soils	5.10	kg/cm2

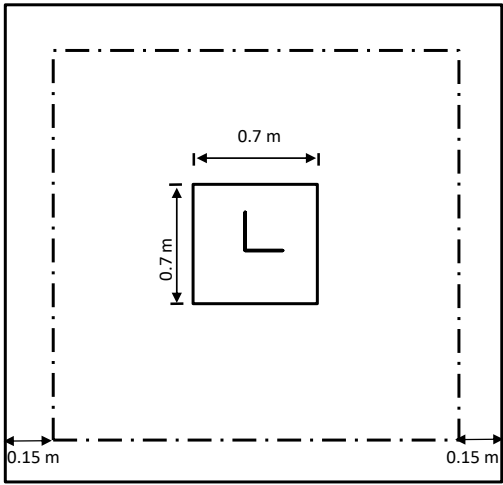
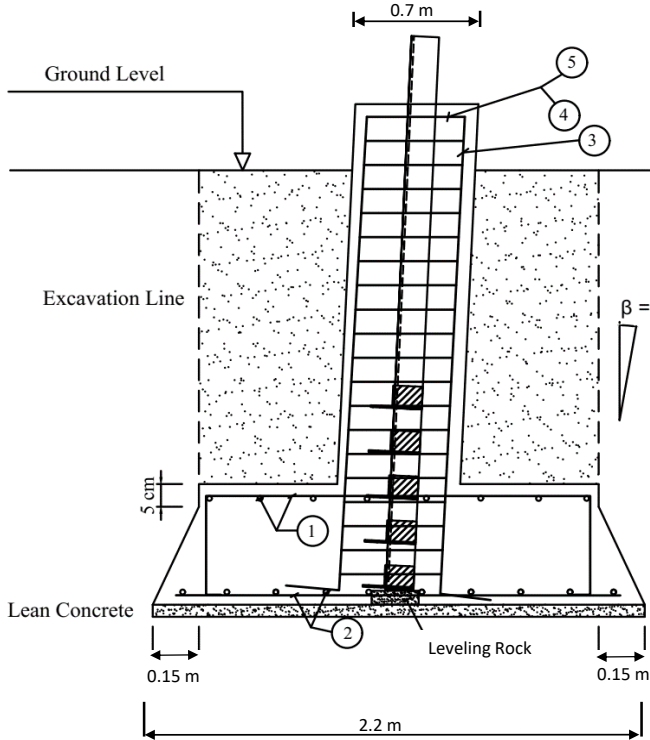
- NOTES :
- Concrete Class : C20/25
 - Steel Reinforcement Class : S500
 - Concrete Cover : 75 mm
 - Soil Layer Shall Be Compacted To Maintain Soil Density.
 - Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - In case of high soil resistance, filling shall be done using soil with low resistance.
 - Concrete surface shall be covered with bitumen in case of aggressive soil conditions

BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	3134	4634	4433	6554
	-1.5	3373	4873	4770	6891
	+0	3611	5111	5106	7228
	+1.5	3849	5349	5443	7565
	+3	4087	5587	5780	7901
	+4.5	4325	5825	6117	8238
BE+0	+6	4563	6063	6454	8575
	-3	3611	5111	5106	7228
	-1.5	3849	5349	5443	7565
	+0	4087	5587	5780	7901
	+1.5	4325	5825	6117	8238
	+3	4563	6063	6454	8575
BE+3	+4.5	4802	6302	6790	8912
	+6	5040	6540	7127	9249
	-3	4087	5587	5780	7901
	-1.5	4325	5825	6117	8238
	+0	4563	6063	6454	8575
	+1.5	4802	6302	6790	8912
BE+6	+3	5040	6540	7127	9249
	+4.5	5278	6778	7464	9585
	+6	5516	7016	7801	9922
	-3	4563	6063	6454	8575
	-1.5	4802	6302	6790	8912
	+0	5040	6540	7127	9249
BE+9	+1.5	5278	6778	7464	9585
	+3	5516	7016	7801	9922
	+4.5	5754	7254	8138	10259
	+6	5992	7492	8475	10596
	-3	5040	6540	7127	9249
	-1.5	5278	6778	7464	9585
BE+12	+0	5516	7016	7801	9922
	+1.5	5754	7254	8138	10259
	+3	5992	7492	8475	10596
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	+6	6469	7969	9148	11269
	+7.5	6707	8207	9485	11606

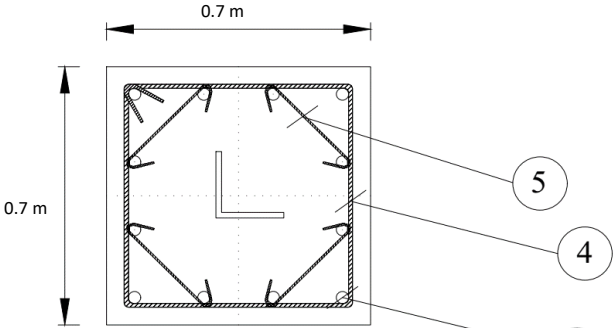
* All dimensions and quantities shall be checked prior to construction

1	Revised as per Consultant Comments	21.10.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de		 FICHTNER	
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com		 MITAS ENERGY	
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:		Foundation Drawings of Tower Type " 12B-LC " Soil Type 2-Deleterious Rock Semi-Auger Foundation	
DATE OF REVIEW / განხილვის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT	Foundation Drawings of Tower Type " 12B-LC " Soil Type 2-Deleterious Rock Semi-Auger Foundation	
DESIGNED BY / ავტორი:	D. Nezamolmolki		
DRAWN BY / შემსრულებელი:	D. Nezamolmolki		
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22		
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0612_01	1	4 of 10

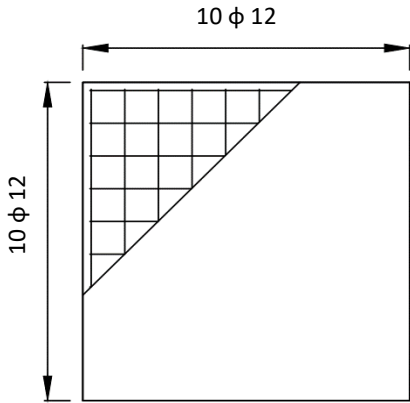
Soil Type:	Type 3-Good Soil
Foundation Type:	Semi-Auger
Tower Type:	12B-LC



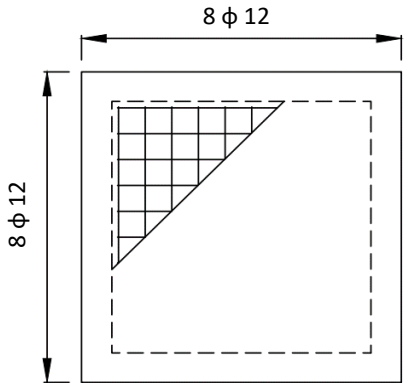
Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1	175	255	12	2.26	16	36.2
2	205	205	12	1.82	20	36.4
3	355	405	16	6.40	12	76.8
4	57	250	8	0.99	25	24.6
5	27	42	8	0.17	100	16.5
SUM						190.6



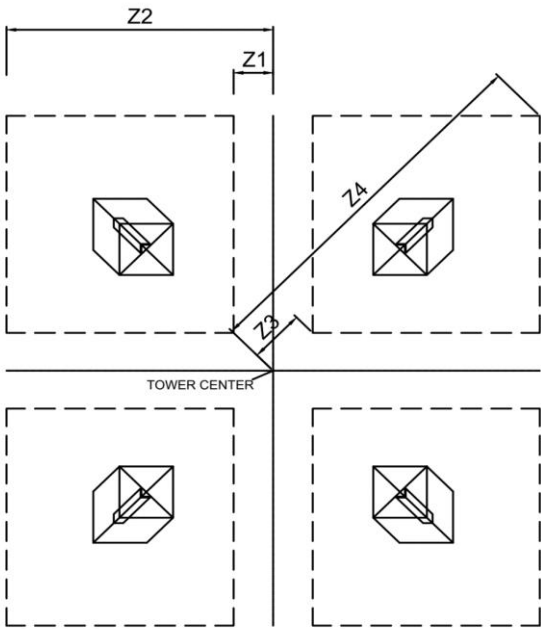
Chimney Section



Bottom of Pad



Top of Pad



PLAN VIEW

- NOTES :
- 1- Concrete Class : C20/25
 - 2- Steel Reinforcement Class : S500
 - 3- Concrete Cover : 75 mm
 - 4- Soil Layer Shall Be Compacted To Maintain Soil Density.
 - 5- Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - 6- In case of high soil resistance, filling shall be done using soil with low resistance.
 - 7- Concrete surface shall be covered with bitumen in case of aggressive soil conditions

Dimensions (m)		
Width of Pad	bp =	2.20
Height of Pad	hp =	0.40
Width of Chimney	bc =	0.70
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	3.00
Depth of Pad	H =	3.40

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	3.3	13.2
Excavation	m3	12.6	50.5
Backfill	m3	9.3	37.3
Lean Concrete	m3	0.5	1.9
Formwork	m2	9.2	37.0
Reinforcement	kg	190.6	762.3

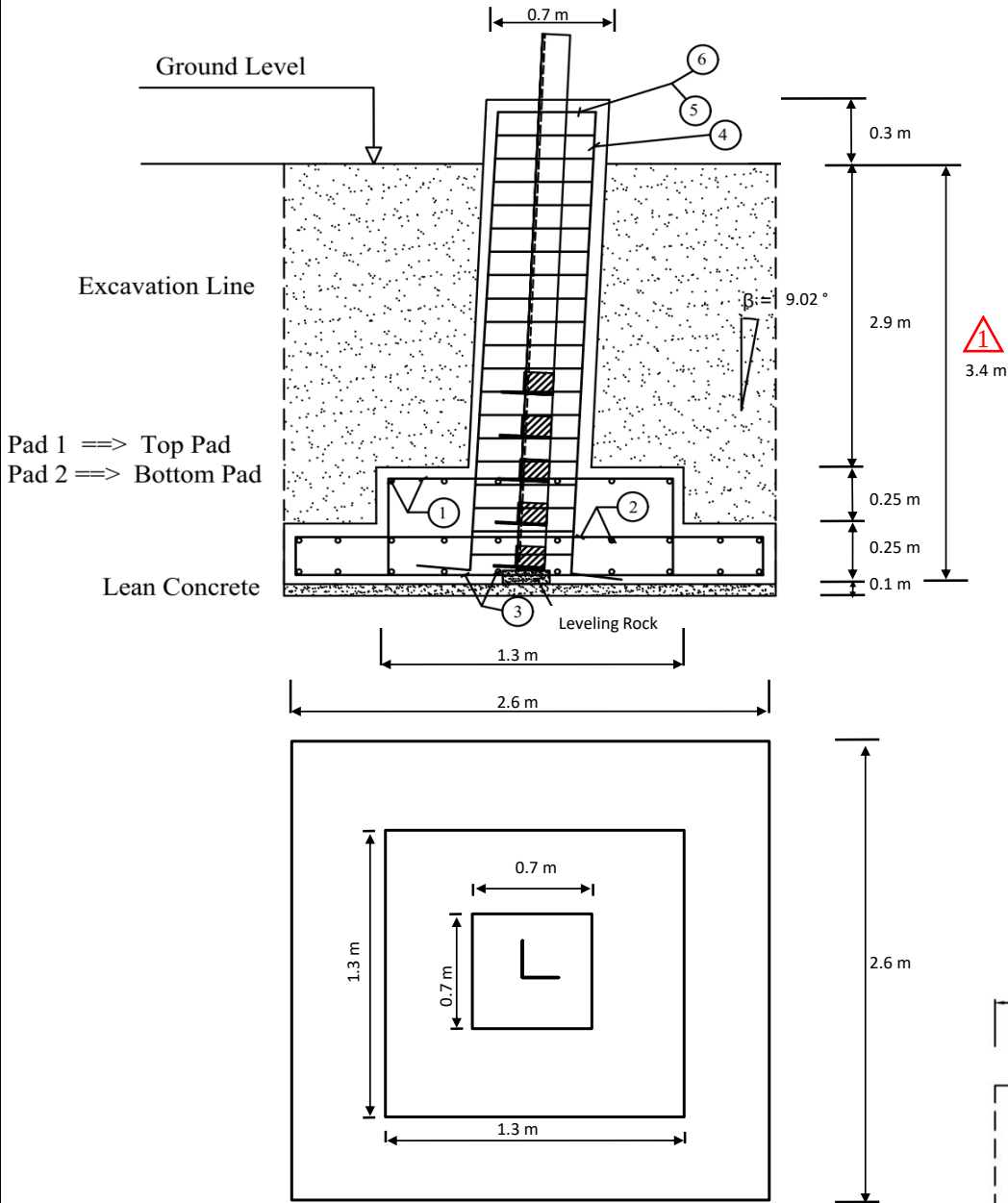
Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	1.73	ton/m3
Backfill Density	1.73	ton/m3
Bearing Capacity of Soils	3.06	kg/cm2

BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2934	4834	4150	6837
	-1.5	3173	5073	4487	7174
	+0	3411	5311	4824	7511
	+1.5	3649	5549	5160	7847
	+3	3887	5787	5497	8184
	+4.5	4125	6025	5834	8521
BE+0	+6	4363	6263	6171	8858
	-3	3411	5311	4824	7511
	-1.5	3649	5549	5160	7847
	+0	3887	5787	5497	8184
	+1.5	4125	6025	5834	8521
	+6	4840	6740	6844	9531
BE+3	-3	3887	5787	5497	8184
	-1.5	4125	6025	5834	8521
	+0	4363	6263	6171	8858
	+1.5	4602	6502	6508	9195
	+3	4840	6740	6844	9531
	+4.5	5078	6978	7181	9868
BE+6	+6	5316	7216	7518	10205
	-3	4363	6263	6171	8858
	-1.5	4602	6502	6508	9195
	+0	4840	6740	6844	9531
	+1.5	5078	6978	7181	9868
	+3	5316	7216	7518	10205
BE+9	+4.5	5554	7454	7855	10542
	+6	5792	7692	8192	10879
	-3	4840	6740	6844	9531
	-1.5	5078	6978	7181	9868
	+0	5316	7216	7518	10205
	+1.5	5554	7454	7855	10542
BE+9	+3	5792	7692	8192	10879
	+4.5	6030	7930	8528	11216
	+6	6269	8169	8865	11552
	-3	5316	7216	7518	10205
	-1.5	5554	7454	7855	10542
	+0	5792	7692	8192	10879
BE+9	+1.5	6030	7930	8528	11216
	+3	6269	8169	8865	11552
	+4.5	6507	8407	9202	11889
	+6	6745	8645	9539	12226

* All dimensions and quantities shall be checked prior to construction

1	Revised as per Consultant Comments	21.10.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DS/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany 		CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey 	
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:		Foundation Drawings of Tower Type " 12B-LC " Soil Type 3-Good Soil Semi-Auger Foundation	
DATE OF REVIEW / განხილვის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT	Foundation Drawings of Tower Type " 12B-LC " Soil Type 3-Good Soil Semi-Auger Foundation	
DESIGNED BY / ავტორი:	D. Nezamolmolk		
DRAWN BY / შემსრულებელი:	D. Nezamolmolk		
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22		
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0612_01	1	5 of 10

Soil Type:	Type 3-Good Soil
Foundation Type:	Pad & Chimney
Tower Type:	12B-LC



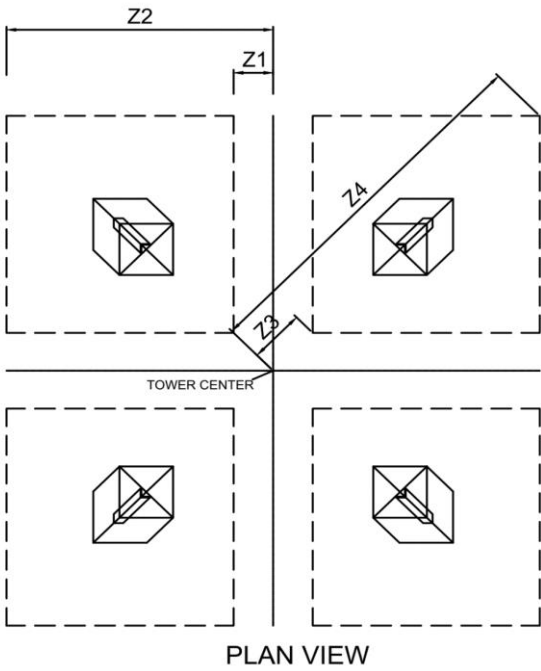
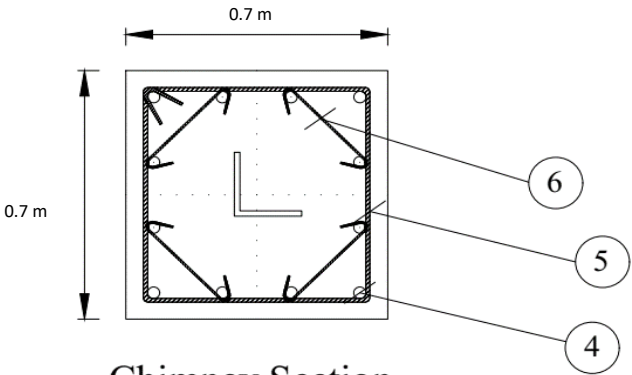
Dimensions (m)			
Width of Pad1	bp1 =	1.30	
Width of Pad2	bp2 =	2.60	
Height of Pad1	hp1 =	0.25	
Height of Pad2	hp2 =	0.25	
Width of Chimney	bc =	0.70	
Height of Chimney above ground level	hc1 =	0.30	
Height of Chimney under ground level	hc2 =	2.90	
Depth of Pad	H =	3.40	

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	3.7	14.7
Excavation	m3	23.7	94.6
Backfill	m3	20.0	79.9
Lean Concrete	m3	0.7	2.7
Formwork	m2	10.3	41.0
Reinforcement	kg	248.3	993.1

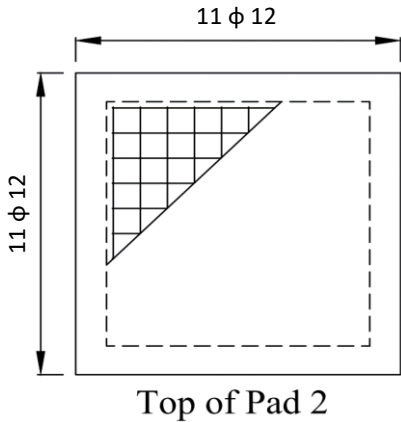
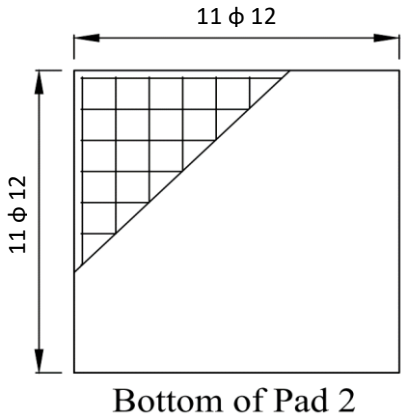
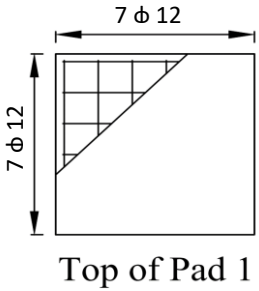
Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	1.73	ton/m3
Backfill Density	1.73	ton/m3
Bearing Capacity of Soils	3.06	kg/cm2

Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		215	12	1.91	14	26.7
2		295	12	2.62	22	57.6
3		245	12	2.18	22	47.9
4		395	16	6.24	12	74.9
5		250	8	0.99	25	24.6
6		42	8	0.17	100	16.5
SUM						248.3

* The foundation is in direct contact with undisturbed soil.



- NOTES :
- Concrete Class : C20/25
 - Steel Reinforcement Class : S500
 - Concrete Cover : 75 mm
 - Soil Layer Shall Be Compacted To Maintain Soil Density.
 - Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - In case of high soil resistance, filling shall be done using soil with low resistance.
 - Concrete surface shall be covered with bitumen in case of aggressive soil conditions

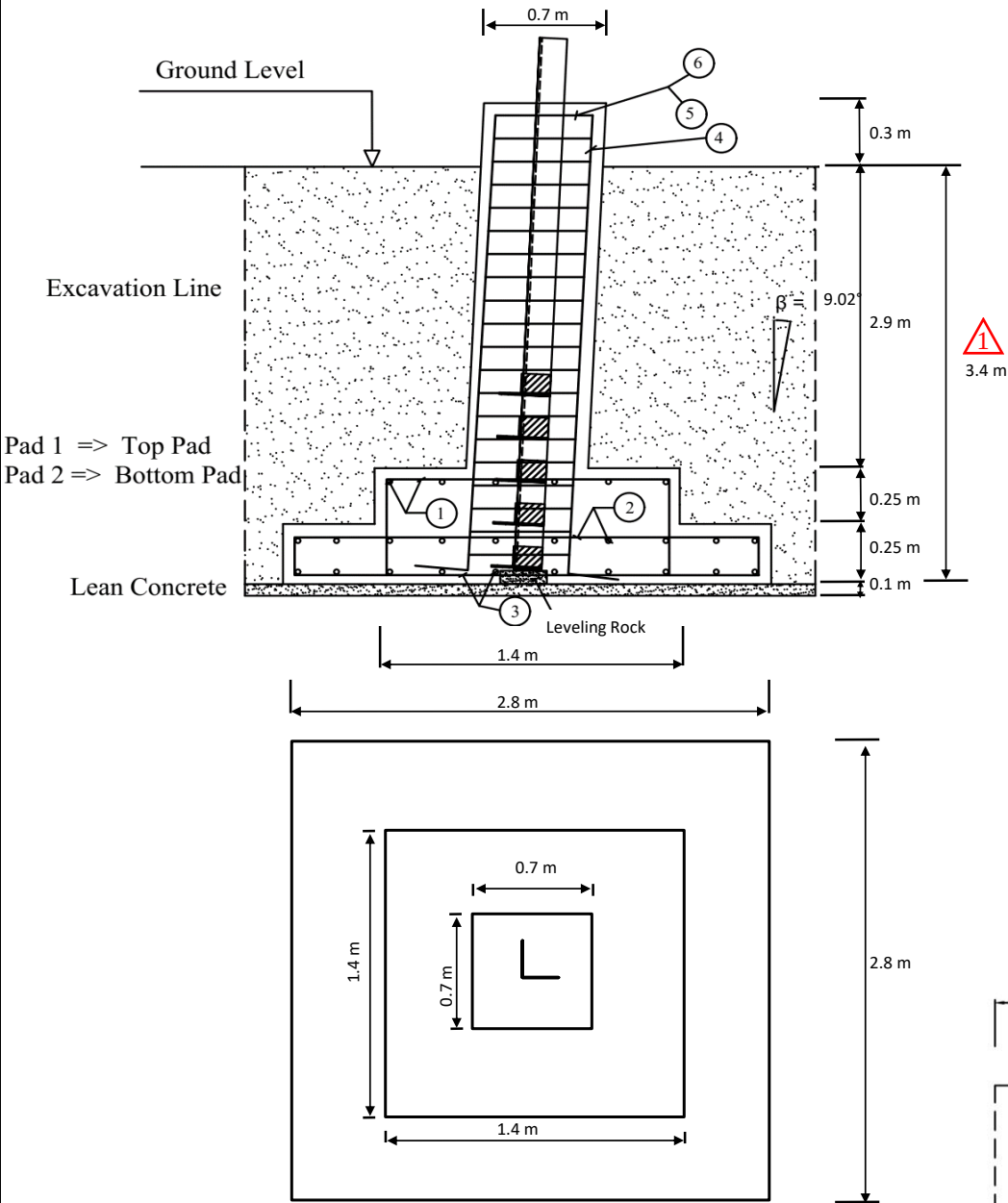


BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2584	5184	3655	7332
	-1.5	2823	5423	3992	7669
	+0	3061	5661	4329	8006
	+1.5	3299	5899	4665	8342
	+3	3537	6137	5002	8679
	+4.5	3775	6375	5339	9016
BE+0	+6	4013	6613	5676	9353
	-3	3061	5661	4329	8006
	-1.5	3299	5899	4665	8342
	+0	3537	6137	5002	8679
	+1.5	3775	6375	5339	9016
	+6	4490	7090	6349	10026
BE+3	-3	3537	6137	5002	8679
	-1.5	3775	6375	5339	9016
	+0	4013	6613	5676	9353
	+1.5	4252	6852	6013	9690
	+3	4490	7090	6349	10026
	+4.5	4728	7328	6686	10363
BE+6	+6	4966	7566	7023	10700
	-3	4013	6613	5676	9353
	-1.5	4252	6852	6013	9690
	+0	4490	7090	6349	10026
	+1.5	4728	7328	6686	10363
	+3	4966	7566	7023	10700
BE+9	+4.5	5204	7804	7360	11037
	+6	5442	8042	7697	11374
	-3	4490	7090	6349	10026
	-1.5	4728	7328	6686	10363
	+0	4966	7566	7023	10700
	+1.5	5204	7804	7360	11037
BE+12	+3	5442	8042	7697	11374
	+4.5	5680	8280	8034	11710
	+6	5919	8519	8370	12047
	-3	4966	7566	7023	10700
	-1.5	5204	7804	7360	11037
	+0	5442	8042	7697	11374

* All dimensions and quantities shall be checked prior to construction

1	Revised as per Consultant Comments	21.10.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de			
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:		Foundation Drawings of Tower Type " 12B-LC " Soil Type 3-Good Soil Pad & Chimney Foundation	
DATE OF REVIEW / განხილვის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT		
DESIGNED BY / ავტორი:	D. Nezamolmolki		
DRAWN BY / შემსრულებელი:	D. Nezamolmolki		
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22		
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0612_01	1	6 of 10

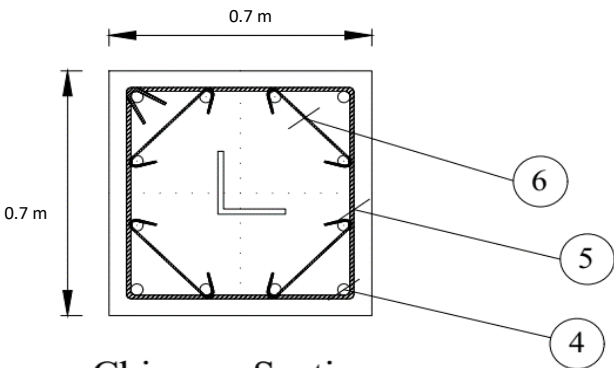
Soil Type:	Type 4-Normal Soil-Dry
Foundation Type:	Pad & Chimney
Tower Type:	12B-LC



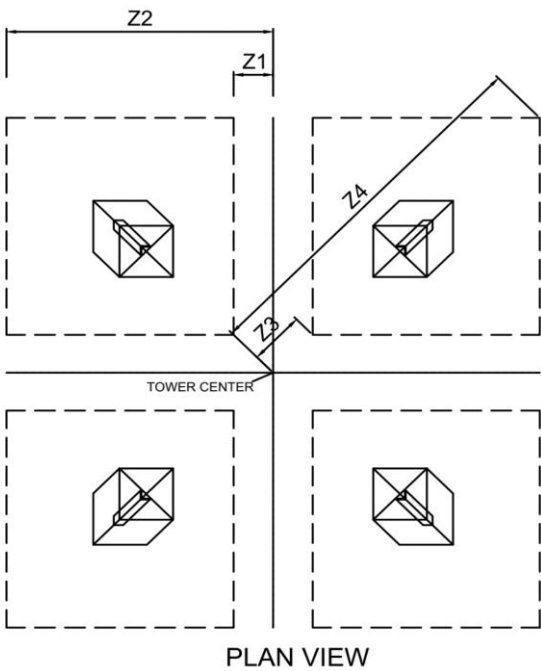
Pad 1 => Top Pad
Pad 2 => Bottom Pad

Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		225	12	2.00	16	32.0
2		315	12	2.80	24	67.1
3		265	12	2.35	24	56.5
4		395	16	6.24	12	74.9
5		250	8	0.99	25	24.6
6		42	8	0.17	100	16.5
SUM						271.6

* The foundation is cast inside formwork.



Chimney Section



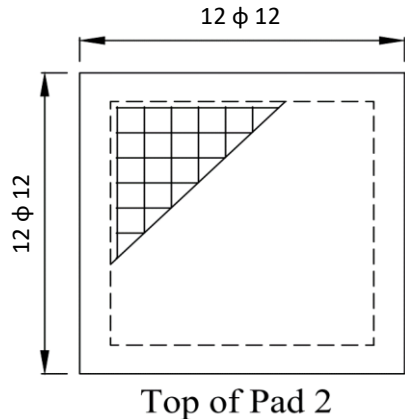
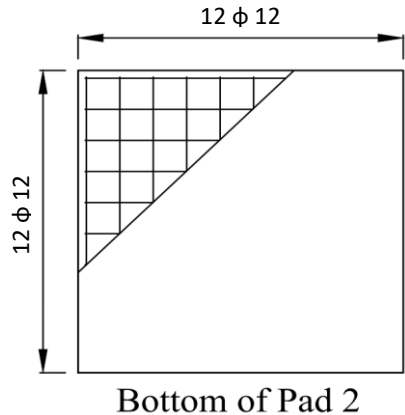
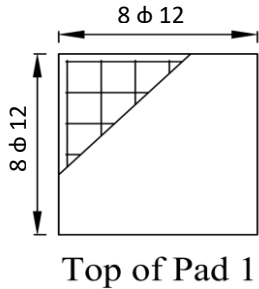
PLAN VIEW

Dimensions (m)		
Width of Pad1	bp1 =	1.40
Width of Pad2	bp2 =	2.80
Height of Pad1	hp1 =	0.25
Height of Pad2	hp2 =	0.25
Width of Chimney	bc =	0.70
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	2.90
Depth of Pad	H =	3.40

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	4.0	16.1
Excavation	m3	50.5	202.2
Backfill	m3	46.5	186.1
Lean Concrete	m3	1.2	4.6
Formwork	m2	13.2	52.6
Reinforcement	kg	271.6	1086.5

Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	1.83	ton/m3
Backfill Density	1.83	ton/m3
Bearing Capacity of Soils	2.04	kg/cm2

- NOTES :
- Concrete Class : C20/25
 - Steel Reinforcement Class : S500
 - Concrete Cover : 75 mm
 - Soil Layer Shall Be Compacted To Maintain Soil Density.
 - Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - In case of high soil resistance, filling shall be done using soil with low resistance.
 - Concrete surface shall be covered with bitumen in case of aggressive soil conditions

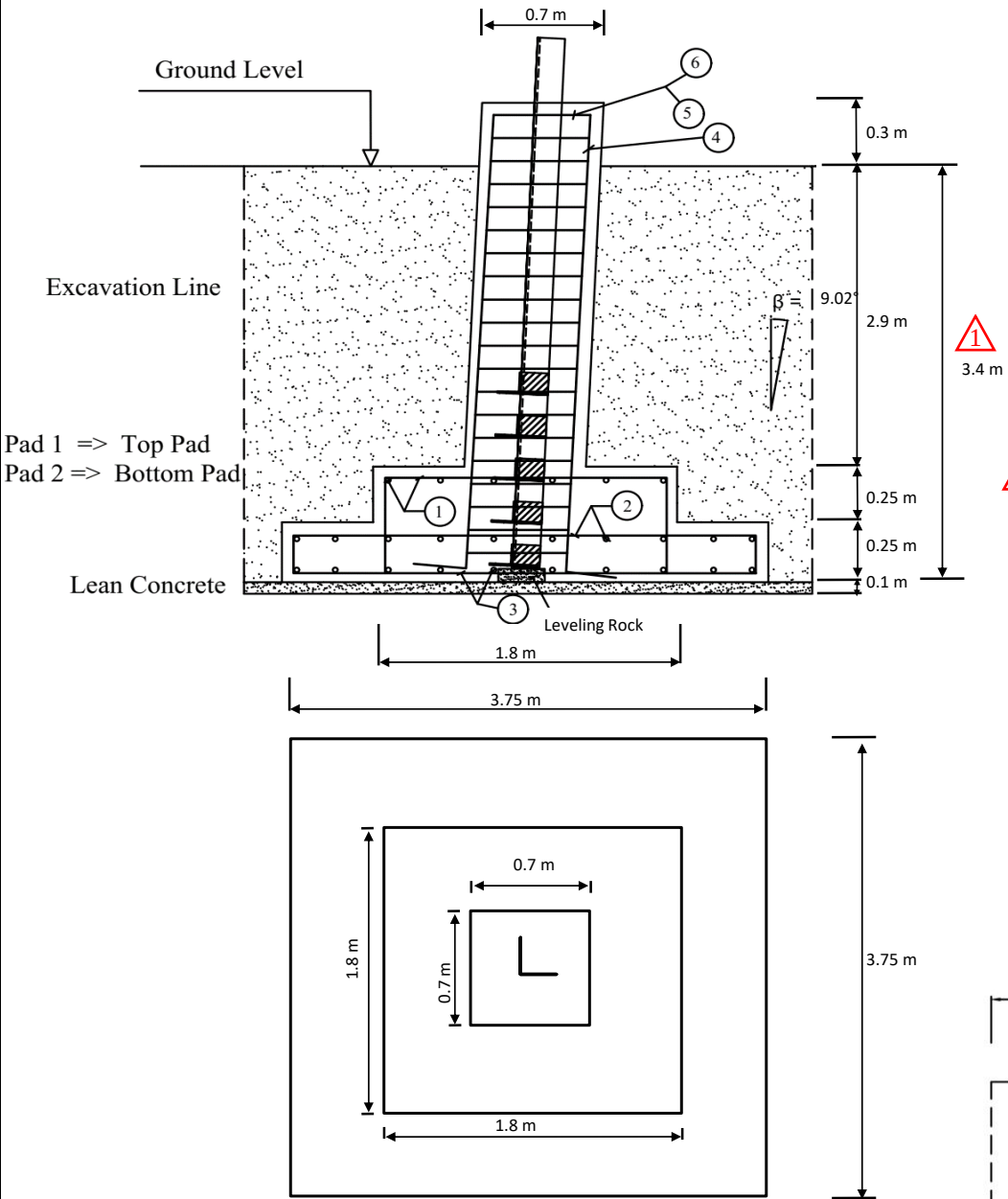


BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2484	5284	3514	7473
	-1.5	2723	5523	3850	7810
	+0	2961	5761	4187	8147
	+1.5	3199	5999	4524	8484
	+3	3437	6237	4861	8821
	+4.5	3675	6475	5198	9157
BE+0	+6	3913	6713	5534	9494
	-3	2961	5761	4187	8147
	-1.5	3199	5999	4524	8484
	+0	3437	6237	4861	8821
	+1.5	3675	6475	5198	9157
	+3	3913	6713	5534	9494
BE+3	+4.5	4152	6952	5871	9831
	+6	4390	7190	6208	10168
	-3	3437	6237	4861	8821
	-1.5	3675	6475	5198	9157
	+0	3913	6713	5534	9494
	+1.5	4152	6952	5871	9831
BE+6	+3	4390	7190	6208	10168
	+4.5	4628	7428	6545	10505
	+6	4866	7666	6882	10842
	-3	3913	6713	5534	9494
	-1.5	4152	6952	5871	9831
	+0	4390	7190	6208	10168
BE+9	+1.5	4628	7428	6545	10505
	+3	4866	7666	6882	10842
	+4.5	5104	7904	7218	11178
	+6	5342	8142	7555	11515
	-3	4390	7190	6208	10168
	-1.5	4628	7428	6545	10505
BE+12	+0	4866	7666	6882	10842
	+1.5	5104	7904	7218	11178
	+3	5342	8142	7555	11515
	+4.5	5580	8380	7892	11852
	+6	5819	8619	8229	12189
	-3	4866	7666	6882	10842

* All dimensions and quantities shall be checked prior to construction

1	Revised as per Consultant Comments	21.10.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DS/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de		 FICHTNER	
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com		 MİTAŞ ENERGY	
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:		AP ☐	
		AC ☐	
		NA ☐	
DATE OF REVIEW / განხილვის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT	Foundation Drawings of Tower Type	
DESIGNED BY / ავტორი:	D. Nezamolmolki	" 12B-LC "	
DRAWN BY / გამსრულებელი:	D. Nezamolmolki	Soil Type 4-Normal Soil-Dry	
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22	Pad & Chimney Foundation	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
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Soil Type:	Type 4-Normal Soil-Submerge
Foundation Type:	Pad & Chimney
Tower Type:	12B-LC



Dimensions (m)		
Width of Pad1	bp1 =	1.80
Width of Pad2	bp2 =	3.75
Height of Pad1	hp1 =	0.25
Height of Pad2	hp2 =	0.25
Width of Chimney	bc =	0.70
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	2.90
Depth of Pad	H =	3.40

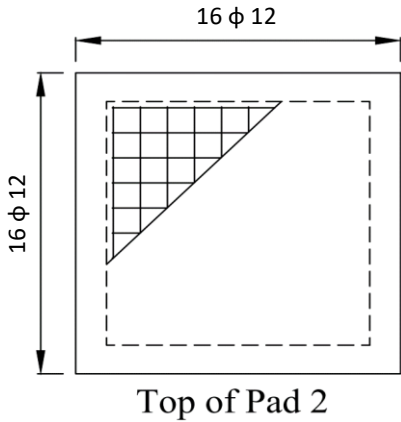
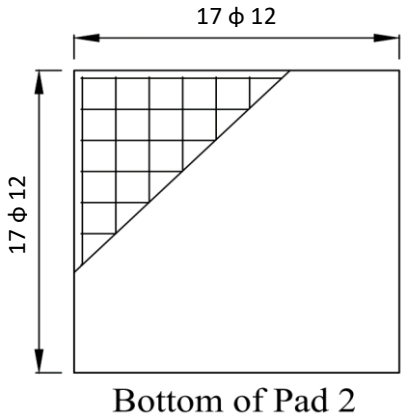
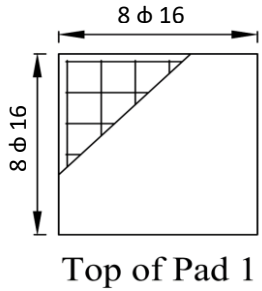
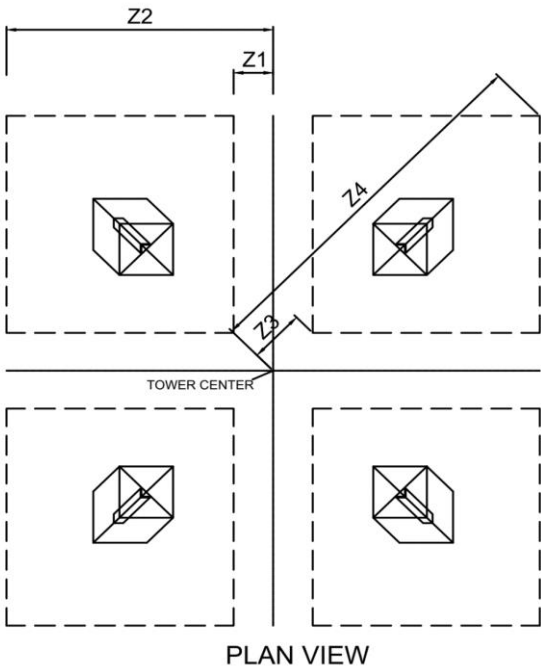
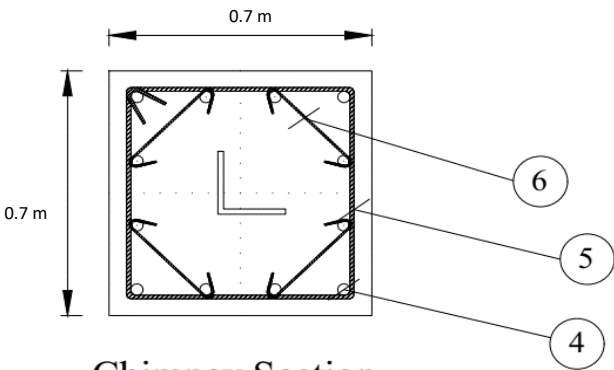
Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	5.9	23.6
Excavation	m3	79.0	315.9
Backfill	m3	73.1	292.3
Lean Concrete	m3	1.9	7.6
Formwork	m2	14.5	58.0
Reinforcement	kg	408.2	1632.9

Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	1.02	ton/m3
Backfill Density	1.02	ton/m3
Bearing Capacity of Soils	2.04	kg/cm2

- NOTES :
- Concrete Class : C20/25
 - Steel Reinforcement Class : S500
 - Concrete Cover : 75 mm
 - Soil Layer Shall Be Compacted To Maintain Soil Density.
 - Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - In case of high soil resistance, filling shall be done using soil with low resistance.
 - Concrete surface shall be covered with bitumen in case of aggressive soil conditions

Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		265	16	4.19	16	67.0
2		410	12	3.64	32	116.5
3		360	12	3.20	34	108.7
4		395	16	6.24	12	74.9
5		250	8	0.99	25	24.6
6		42	8	0.17	100	16.5
SUM						408.2

* The foundation is cast inside formwork.



BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2009	5759	2842	8145
	-1.5	2248	5998	3179	8482
	+0	2486	6236	3515	8819
	+1.5	2724	6474	3852	9156
	+3	2962	6712	4189	9492
	+4.5	3200	6950	4526	9829
BE+0	+6	3438	7188	4863	10166
	-3	2486	6236	3515	8819
	-1.5	2724	6474	3852	9156
	+0	2962	6712	4189	9492
	+1.5	3200	6950	4526	9829
	+3	3438	7188	4863	10166
BE+3	+4.5	3677	7427	5199	10503
	+6	3915	7665	5536	10840
	-3	2962	6712	4189	9492
	-1.5	3200	6950	4526	9829
	+0	3438	7188	4863	10166
	+1.5	3677	7427	5199	10503
BE+6	+3	3915	7665	5536	10840
	+4.5	4153	7903	5873	11176
	+6	4391	8141	6210	11513
	-3	3438	7188	4863	10166
	-1.5	3677	7427	5199	10503
	+0	3915	7665	5536	10840
BE+9	+1.5	4153	7903	5873	11176
	+3	4391	8141	6210	11513
	+4.5	4629	8379	6547	11850
	+6	4867	8617	6884	12187
	-3	3915	7665	5536	10840
	-1.5	4153	7903	5873	11176
BE+12	+0	4391	8141	6210	11513
	+1.5	4629	8379	6547	11850
	+3	4867	8617	6884	12187
	+4.5	5105	8855	7220	12524
	+6	5344	9094	7557	12860
	-3	4391	8141	6210	11513

* All dimensions and quantities shall be checked prior to construction

1	Revised as per Consultant Comments	21.10.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DS/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105  info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de			
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey  MİTAŞ ENERGY info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:		Foundation Drawings of Tower Type " 12B-LC " Soil Type 4-Normal Soil-Submerge Pad & Chimney Foundation	
DATE OF REVIEW / განხილვის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT		
DESIGNED BY / ავტორი:	D. Nezamolmolki		
DRAWN BY / გამსრულებელი:	D. Nezamolmolki		
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22		
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0612_01	1	8 of 10

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NOTES :

1- Concrete Class : C20/25

2- Steel Reinforcement Cla

3- Concrete Cover : 75 mm

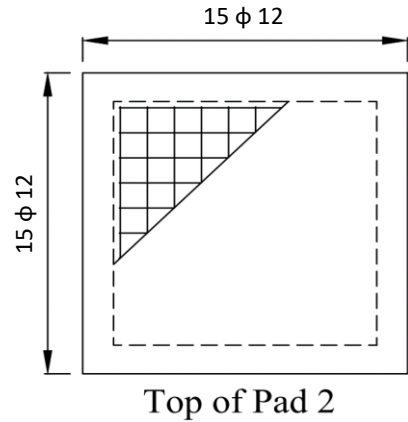
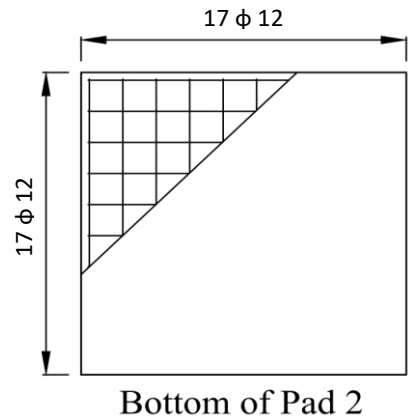
4- Soil Layer Shall Be Compacted To Maintain Soil Density

5- Sulphate resistant concrete shall be used in case of aggressive soil conditions.

6. In case of high soil resistance, filling shall be done using soil with low resistance.

7. Concrete surface shall be covered with bitumen in case of aggressive soil condition.

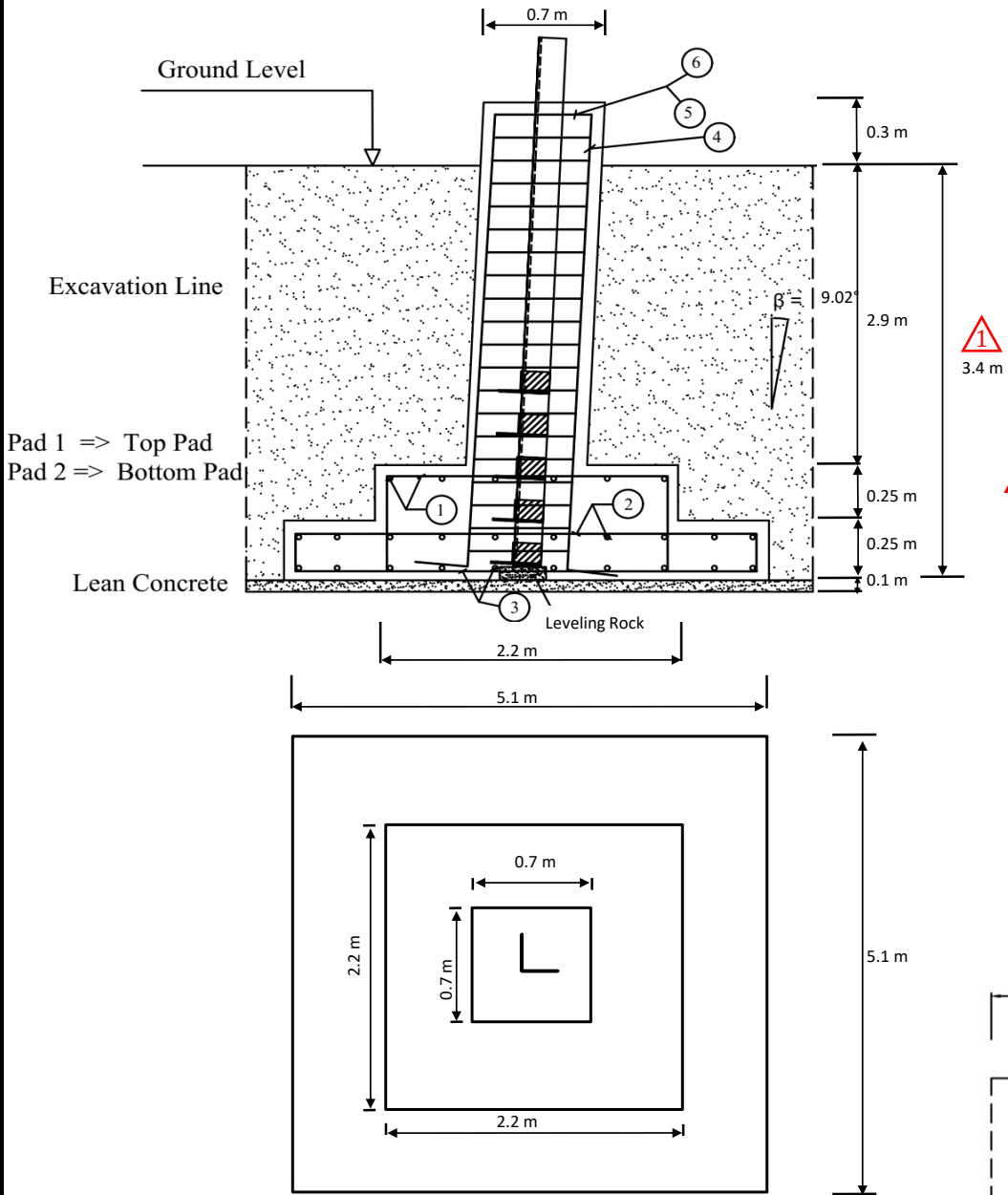
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* All dimensions and quantities shall be checked prior to construction

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0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის სასახლეა: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DS/OHL-TD-Lot 2 EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de		 	
CONTRACTOR / კონსტრუქტორი : Mitas Energy and Metal Construction Inc. Eski Güvercinlik Yolu No 13 - Gazi Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:		AP ☐	
DATE OF REVIEW / განხილვის თარიღი:		AC ☐	
		NA ☐	
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT	Foundation Drawings of Tower Type	
DESIGNED BY / ავტორი:	D. Nezamolmolki	" 12B-LC "	
DRAWN BY / შემსრულებელი:	D. Nezamolmolki	Soil Type 5-Poor Soil-Dry	
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22	Pad & Chimney Foundation	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0612_01	1	9 of 10

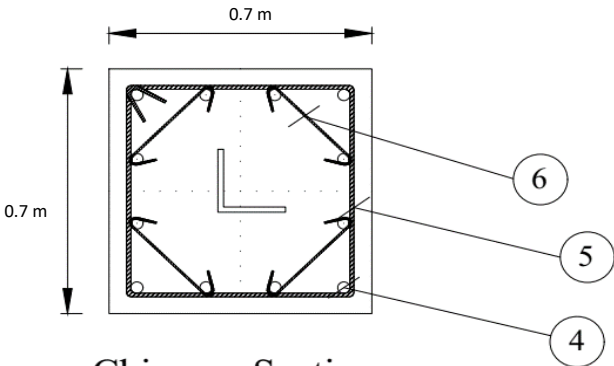
Soil Type:	Type 5-Poor Soil-Submerge
Foundation Type:	Pad & Chimney
Tower Type:	12B-LC



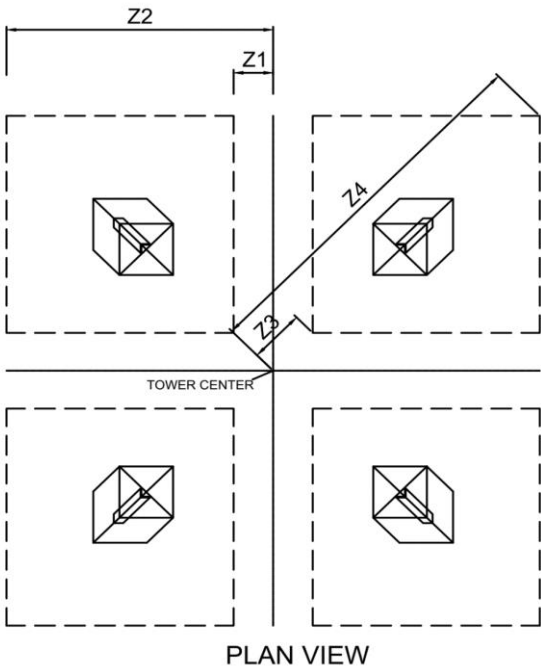
Pad 1 => Top Pad
Pad 2 => Bottom Pad

Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		305	16	4.82	20	96.4
2		545	12	4.84	42	203.3
3		495	12	4.40	56	246.2
4		395	16	6.24	12	74.9
5		250	8	0.99	25	24.6
6		42	8	0.17	100	16.5
SUM						661.8

* The foundation is cast inside formwork.



Chimney Section



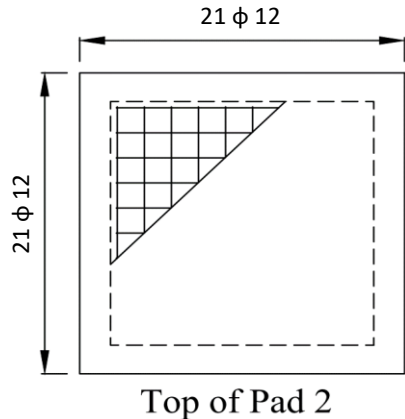
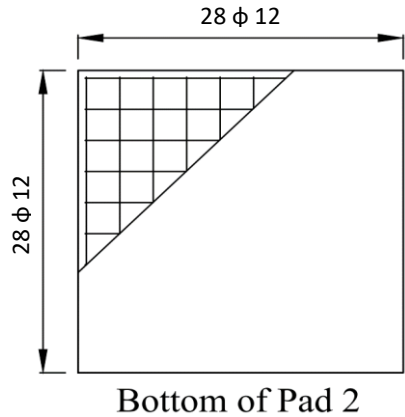
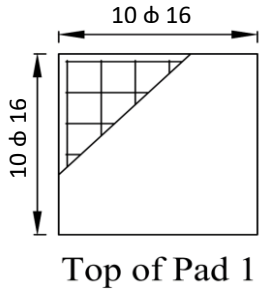
PLAN VIEW

Dimensions (m)		
Width of Pad1	bp1 =	2.20
Width of Pad2	bp2 =	5.10
Height of Pad1	hp1 =	0.25
Height of Pad2	hp2 =	0.25
Width of Chimney	bc =	0.70
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	2.90
Depth of Pad	H =	3.40

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	9.3	37.1
Excavation	m3	130.2	520.9
Backfill	m3	121.0	483.8
Lean Concrete	m3	3.2	13.0
Formwork	m2	16.3	65.0
Reinforcement	kg	661.8	2647.4

Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	0.82	ton/m3
Backfill Density	0.82	ton/m3
Bearing Capacity of Soils	0.82	kg/cm2

- NOTES :
- Concrete Class : C20/25
 - Steel Reinforcement Class : S500
 - Concrete Cover : 75 mm
 - Soil Layer Shall Be Compacted To Maintain Soil Density.
 - Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - In case of high soil resistance, filling shall be done using soil with low resistance.
 - Concrete surface shall be covered with bitumen in case of aggressive soil conditions



BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	1334	6434	1887	9100
	-1.5	1573	6673	2224	9437
	+0	1811	6911	2561	9773
	+1.5	2049	7149	2898	10110
	+3	2287	7387	3234	10447
	+4.5	2525	7625	3571	10784
BE+0	+6	2763	7863	3908	11121
	-3	1811	6911	2561	9773
	-1.5	2049	7149	2898	10110
	+0	2287	7387	3234	10447
	+1.5	2525	7625	3571	10784
	+3	2763	7863	3908	11121
BE+3	+4.5	3002	8102	4245	11457
	+6	3240	8340	4582	11794
	-3	2287	7387	3234	10447
	-1.5	2525	7625	3571	10784
	+0	2763	7863	3908	11121
	+1.5	3002	8102	4245	11457
BE+6	+3	3240	8340	4582	11794
	+4.5	3478	8578	4919	12131
	+6	3716	8816	5255	12468
	-3	2763	7863	3908	11121
	-1.5	3002	8102	4245	11457
	+0	3240	8340	4582	11794
BE+9	+1.5	3478	8578	4919	12131
	+3	3716	8816	5255	12468
	+4.5	3954	9054	5592	12805
	+6	4192	9292	5929	13141
	-3	3240	8340	4582	11794
	-1.5	3478	8578	4919	12131
BE+12	+0	3716	8816	5255	12468
	+1.5	3954	9054	5592	12805
	+3	4192	9292	5929	13141
	+4.5	4430	9530	6266	13478
	+6	4669	9769	6603	13815
	-3	3716	8816	5255	12468

* All dimensions and quantities shall be checked prior to construction

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PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de		 FICHTNER	
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:		Foundation Drawings of Tower Type " 12B-LC " Soil Type 5-Poor Soil-Submerge Pad & Chimney Foundation	
DATE OF REVIEW / განხილვის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT		
DESIGNED BY / ავტორი:	D. Nezamolmolki		
DRAWN BY / გამსრულებელი:	D. Nezamolmolki		
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22		
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0612_01	1	10 of 10