

BASE WIDTH [mm]		
TOWER TYPE	BODY EXT.	T
S	+0	3980
	+3	4442
	+6	4904
	+9	5366

BAR SCHEDULE – STANDARD CHIMNEY									
Member	Bar mark	Type and size	No.of bars	Length of each bar mm	Shape code	A mm	B mm	C mm	D mm E/R mm
Chimney	1	X16	8	2400	37	250	2150	–	–
Chimney	2	X8	9	1500	61	350	350	–	–
Pad	3	X10	40	2000	38	150	1700	150	–
SUMMARY OF MATERIALS AND WORKS (ONE LEG)						Ø16	Ø10	Ø8	
Total length per dia. :						m	19.2	80.0	13.5
Unit weight of reinforcing steel :						kg	1.579	0.617	0.395
Total weight of reinforcing steel (per dia) :						kg	30.3	49.4	5.3
Total weight of reinforcement :									82.5 Kg
Excavation :				5.897 m³	Concrete :		1.274 m³		
Backfilling :				4.721 m³	Blinding :		0.227 m³		

BAR SCHEDULE – EXTENDED CHIMNEY (+50cm)									
Member	Bar mark	Type and size	No.of bars	Length of each bar mm	Shape code	A mm	B mm	C mm	D mm E/R mm
Chimney	1	X16	8	2900	37	250	2650	–	–
Chimney	2	X8	11	1500	61	350	350	–	–
Pad	3	X10	40	2000	38	150	1700	150	–
SUMMARY OF MATERIALS AND WORKS (ONE LEG)						Ø16	Ø10	Ø8	
Total length per dia. :						m	23.2	80.0	16.5
Unit weight of reinforcing steel :						kg	1.579	0.617	0.395
Total weight of reinforcing steel (per dia) :						kg	36.6	49.4	6.5
Total weight of reinforcement :									90.0 Kg
Excavation :				5.897 m³	Concrete :		1.376 m³		
Backfilling :				4.721 m³	Blinding :		0.227 m³		

NOTES:

GENERAL NOTES:

- DIMENSIONS IN cm OR AS SPECIFIED.
- STUB ANGLE DRAWING NO. KC06.0040_OHL_STR_22-05-01 sh.013.
- DIMENSION "T" TO BE CHECKED WITH TOWER'S ERECTION DRAWINGS.
- THIS FOUNDATION SHALL BE USED IN LOCATION WHERE THE ALLOWABLE BEARING CAPACITY OF THE SOIL IS BETWEEN 1.3 daN/cm² AND 2 daN/cm², ACCORDING TO GEOTECHNICAL SURVEY REPORT.

FOUNDATION DESIGN PARAMETERS:

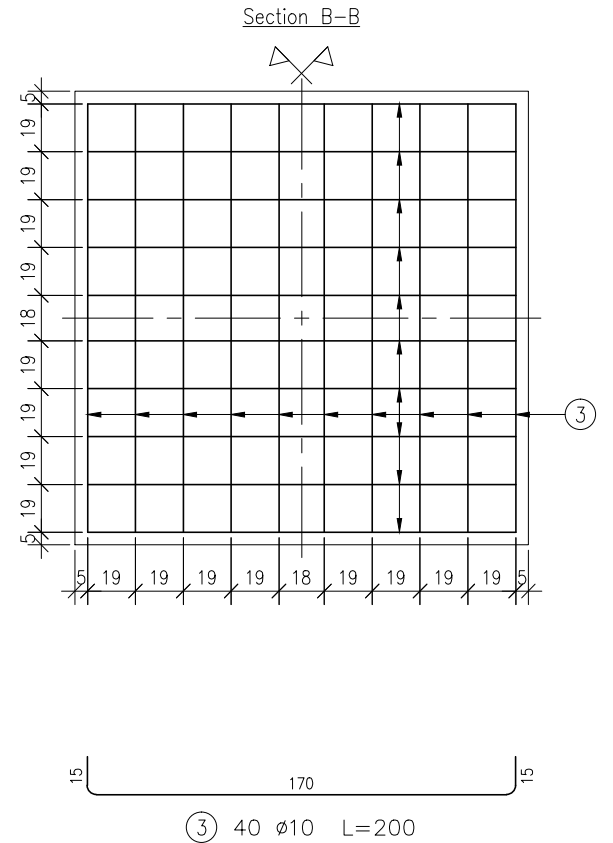
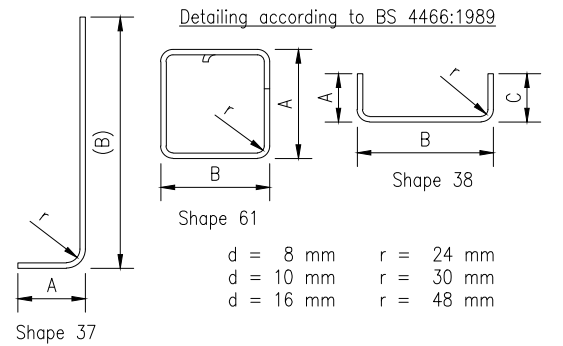
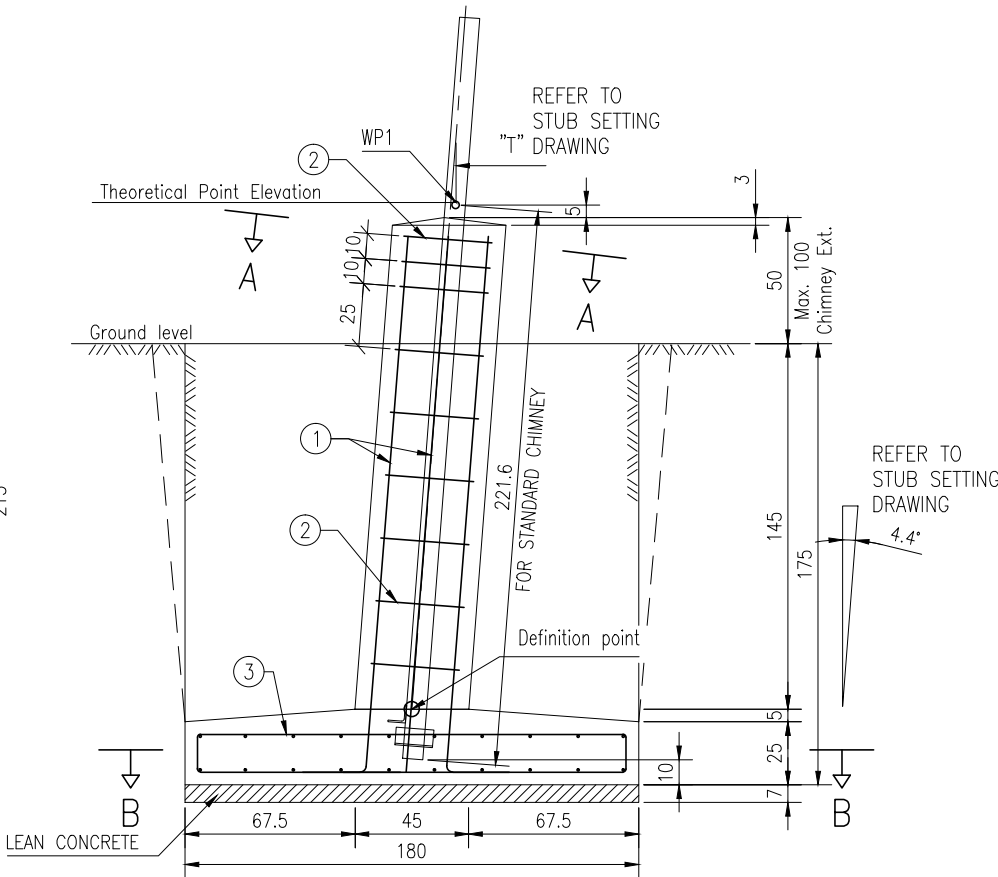
- CONSIDERED WATER LEVEL IS ALWAYS BELOW FOUNDATION.
- SOIL TYPE 2:
 - SOIL ANGLE OF REPOSE: 20°.
 - SOIL UNIT WEIGHT: 1500 kg/m³.
 - ULTIMATE BEARING CAPACITY: 4 daN/cm².
 - ALLOWABLE BEARING CAPACITY: 1.3 daN/cm².
- LOADING AS SHOWN IN TOWER DESIGN CALCULATION.
- IF ANY OF THE ABOVE ASSUMPTIONS ARE FOUND TO BE INVALID IMMEDIATELY CEASE CONSTRUCTION AND CONTACT THE ENGINEER.



CONCRETE MATERIAL:

- MINIMUM 28 DAYS COMPRESSIVE STRENGTH: 25 N/mm².
- CONCRETE COVER: 5 cm.
- LEAN CONCRETE SHALL HAVE THE FOLLOWING RATIO OF CEMENT : FINE AGGREGATE : COARSE AGGREGATE = 1 : 3 : 5, MEASURED BY VOLUME.

REINFORCING STEEL MATERIAL:

- Ø = REBAR DIAMETER IN mm.
- REINFORCED CONCRETE DESIGN, BAR SCHEDULE, DETAILING AND EXTENSIONS OF REBARS WILL BE ACCORDING TO BS 8110 AND BS 4466. REBAR EXTENSION BY OVERLAPPING ON 50 DIA.
- MAIN REINFORCEMENT SHALL BE DEFORMED BARS OF HIGH TENSILE STEEL WITH MINIMUM YIELD STRENGTH: F_y=500 N/mm².
- LINKS SHALL BE OF PLAIN BARS OF MILD STEEL WITH MINIMUM YIELD STRENGTH: F_y=240 N/mm².



01	10/05/13	First issue;			
REV.	dd/mm/yy	REVISION DESCRIPTION	PG	SI	VR
			DRAWN	CHECKED	APPROVED
 CG Holdings Belgium NV Systems Division Antwerpsesteenweg 167, B-2800 Mechelen Tel. : +32(0)15/283 333 Fax : +32(0)15/283 491 www.cgglobal.com			CLIENT: MINISTRY OF ENERGY - REPUBLIC OF KENYA		
ISO Symbol:  SCALE: 1/30 LAYOUT: A3			DRAWING TITLE : 132 kV OHL Nanyuki - Isiolo - Meru Foundation Type SF2 for Tower Type S		
THIS DRAWING SHALL NOT BE COPIED, REPRODUCED, TRANSMITTED OR GRANTED TO THIRD PARTIES WITHOUT OUR PRIOR AGREEMENT			DRAWING No.: 100008-L0-DG-CW01		