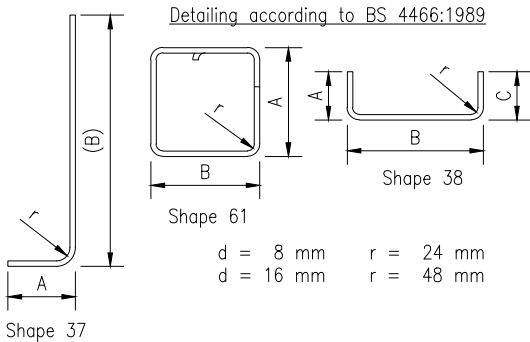
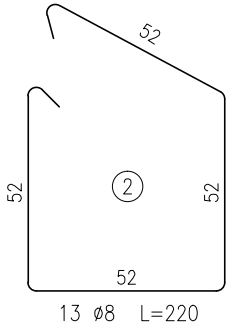
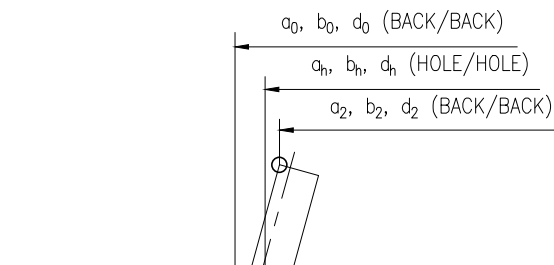
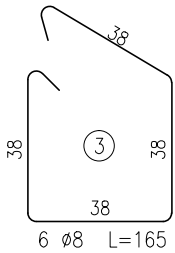
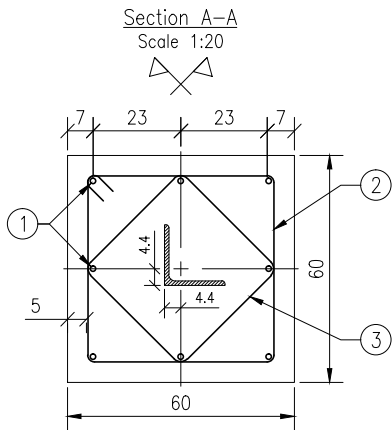
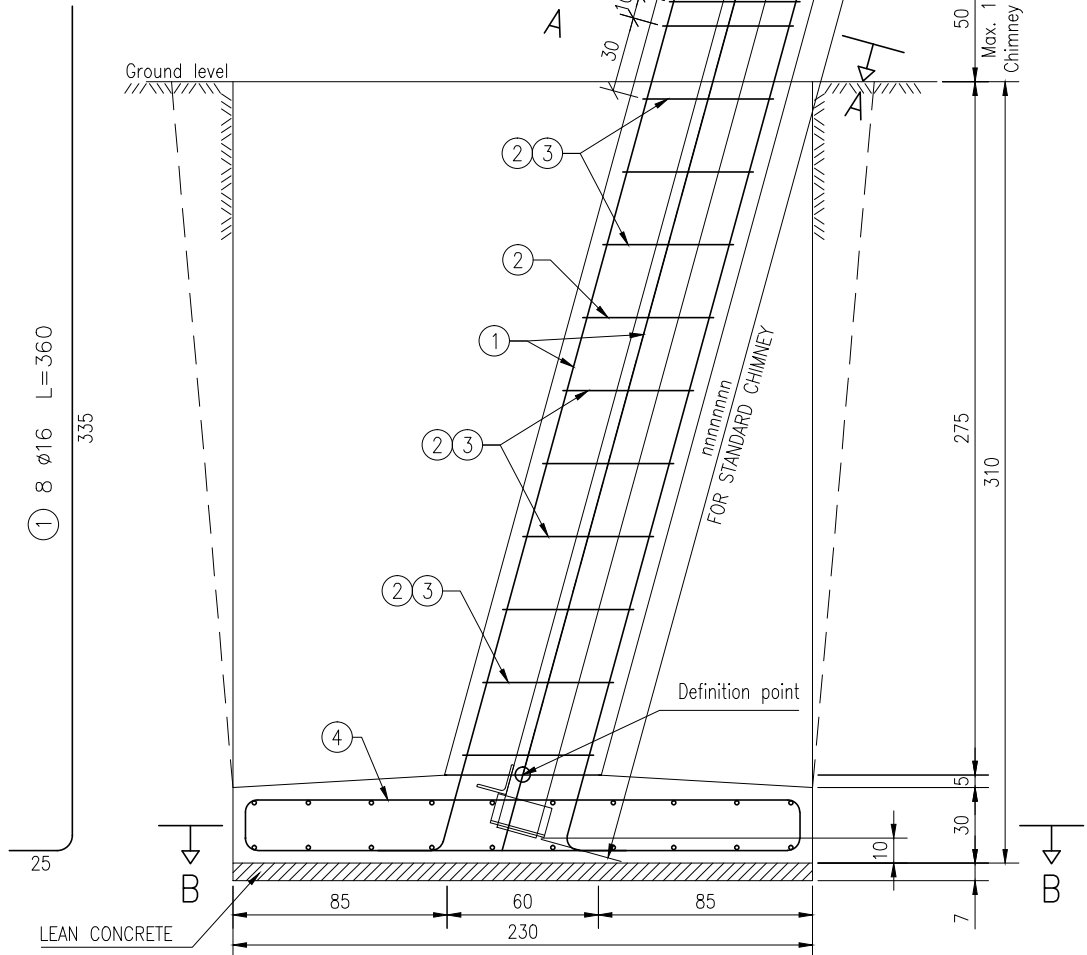
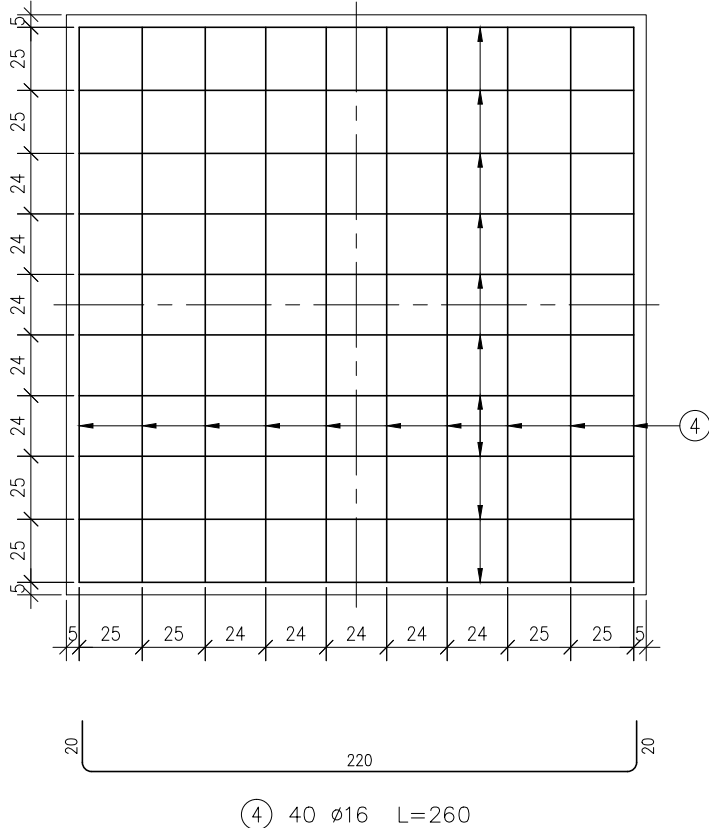


Foundation control dimensions without chimney extension [cm]												
$a_0/2$	$b_0/2$	$d_0/2$	$a_1/2$	$b_1/2$	$d_1/2$	$a_2/2$	$b_2/2$	$d_2/2$	$a_h/2$	$b_h/2$	$d_h/2$	
600.0	650.0	884.6	679.5	734.7	1000.8	583.9	632.8	861.0	581.1	630.4	857.4	



Section B-B



NOTES:

- GENERAL NOTES:
- DIMENSIONS IN cm OR AS SPECIFIED.
 - STUB ANGLE DRAWING NO. 100008-L1-DG-ST32.
 - DIMENSION $a_0, b_0, d_0, a_2, b_2, d_2, a_h, b_h, d_h$ TO BE CHECKED WITH TOWER'S ERECTION DRAWINGS.
 - THIS FOUNDATION SHALL BE USED IN LOCATIONS WHERE THE ALLOWABLE BEARING CAPACITY OF THE SOIL IS AT LEAST 2 daN/cm², ACCORDING TO GEOTECHNICAL SURVEY REPORT.

FOUNDATION DESIGN PARAMETERS:

- CONSIDERED WATER LEVEL IS ALWAYS BELOW FOUNDATION.
- SOIL TYPE 1:
 - SOIL ANGLE OF REPOSE: 30°.
 - SOIL UNIT WEIGHT: 1600 kg/m³.
 - ULTIMATE BEARING CAPACITY: 6 daN/cm².
 - ALLOWABLE BEARING CAPACITY: 2 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:



- ϕ = 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.

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	3600	37	250	3350	–	–	–
Chimney	2	X8	13	2200	61	520	520	–	–	–
Chimney	3	X8	6	1650	61	380	380	–	–	–
Pad	4	X16	40	2600	38	200	2200	200	–	–
SUMMARY OF MATERIALS AND WORKS (ONE LEG)						Ø16	Ø8			
Total length per dia. :						m	132.8	38.5		
Unit weight of reinforcing steel :						kg	1.579	0.395		
Total weight of reinforcing steel (per dia) :						kg	209.7	15.2		
Total weight of reinforcement :								224.9	Kg	
Excavation : 16.769 m ³						Concrete :		2.949	m ³	
Backfilling : 14.005 m ³						Blinding :		0.370	m ³	

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	4150	37	250	3880	–	–	–
Chimney	2	X8	15	2200	61	520	520	–	–	–
Chimney	3	X8	6	1650	61	380	380	–	–	–
Pad	4	X16	40	2600	38	200	2200	200	–	–
SUMMARY OF MATERIALS AND WORKS (ONE LEG)						Ø16	Ø8			
Total length per dia. :						m	137.2	42.9		
Unit weight of reinforcing steel :						kg	1.579	0.395		
Total weight of reinforcing steel (per dia) :						kg	216.6	16.9		
Total weight of reinforcement :								233.5	Kg	
Excavation : 16.769 m ³						Concrete :		3.142	m ³	
Backfilling : 14.005 m ³						Blinding :		0.370	m ³	

00	10/10/14	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 3HTF1 for Tower Type 3HT		
THIS DRAWING SHALL NOT BE COPIED, REPRODUCED, TRANSMITTED OR GRANTED TO THIRD PARTIES WITHOUT OUR PRIOR AGREEMENT			DRAWING No.: 100008-L1-DG-CW02		