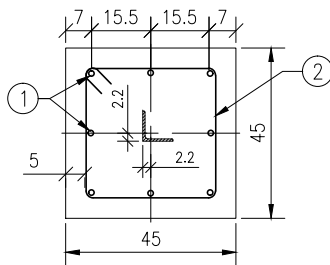
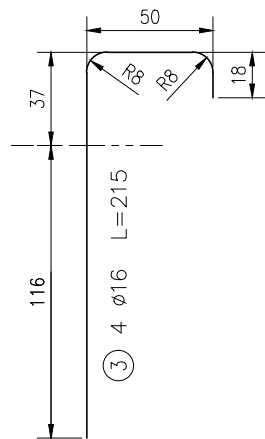
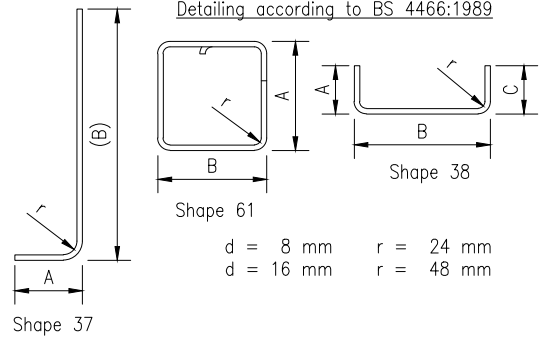
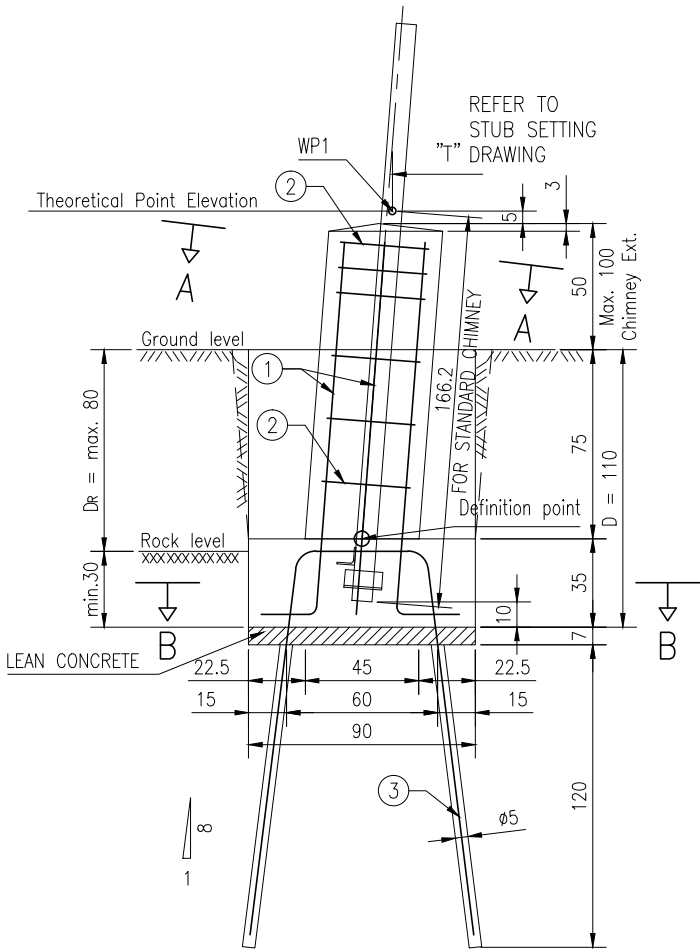


Section A-A
Scale 1:20



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	1750	37	250	1480	–	–	–
Chimney	2	X8	6	1500	61	350	350	–	–	–
Anchors	3	X16	4	2150	4	1530	500	180	–	80

SUMMARY OF MATERIALS AND WORKS (ONE LEG)						ø16	ø8		
Total length per dia. :						m	22.6	9.0	
Unit weight of reinforcing steel :						kg	1.579	0.395	
Total weight of reinforcing steel (per dia) :						kg	35.7	3.6	
Total weight of reinforcement :								39.3 Kg	
Excavation :						0.948 m³	Concrete :	0.534 m³	
Backfilling :						0.512 m³	Blinding :	0.057 m³	
							Mortar :	0.0085 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	2250	37	250	1980	–	–	–
Chimney	2	X8	8	1500	61	350	350	–	–	–
Pad	3	X16	4	2150	4	1530	500	180	–	80

SUMMARY OF MATERIALS AND WORKS (ONE LEG)						ø16	ø8		
Total length per dia. :						m	26.6	12.0	
Unit weight of reinforcing steel :						kg	1.579	0.395	
Total weight of reinforcing steel (per dia) :						kg	42.0	4.7	
Total weight of reinforcement :								46.7 Kg	
Excavation :						0.948 m³	Concrete :	0.637 m³	
Backfilling :						0.512 m³	Blinding :	0.057 m³	
							Mortar :	0.0085 m³	

NOTES:

GENERAL NOTES:

- DIMENSIONS IN cm OR AS SPECIFIED.
- STUB ANGLE MODIFIED FROM DRAWING NO. KC06.0040_OHL_STR_22-05-01 sh.013.
- DIMENSION "T" TO BE CHECKED WITH TOWER'S ERECTION DRAWINGS.
- IF ROCK LEVEL IS LOWER THAN D_R = 80cm THE TOTAL DEPTH OF THE FOUNDATION SHALL BE INCREASED TO ENSURE THE MINIMUM 30cm EMBEDMENT OF THE PAD IN ROCK.

FOUNDATION DESIGN PARAMETERS:

- CONSIDERED WATER LEVEL IS ALWAYS BELOW FOUNDATION.
- SOIL TYPE ROCK:
 - SOIL UNIT WEIGHT: 1900 kg/m³.
 - ULTIMATE BEARING CAPACITY: 30 daN/cm².
 - ALLOWABLE BEARING CAPACITY: 10 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.
- 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.
- 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 Rock Anchor Foundation Type SFR 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-CW02		