

BASE WIDTH [mm]		
TOWER TYPE	BODY EXT.	T
L	+0	4230
	+3	4770
	+6	5310

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	12	2800	37	250	2550	–	–
Chimney	2	X8	11	1700	61	400	400	–	–
Pad	3	X12	28	1700	38	150	1400	150	–
SUMMARY OF MATERIALS AND WORKS (ONE LEG)						Ø16	Ø12	Ø8	
Total length per dia. :						m	33.6	47.6	18.7
Unit weight of reinforcing steel :						kg	1.579	0.888	0.395
Total weight of reinforcing steel (per dia) :						kg	53.1	42.3	7.4
Total weight of reinforcement :								102.8	Kg
Excavation :			4.995 m³	Concrete :		1.204 m³			
Backfilling :			3.912 m³	Blinding :		0.158 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	12	3300	37	250	3050	–	–
Chimney	2	X8	13	1700	61	400	400	–	–
Pad	3	X12	28	1700	38	150	1400	150	–
SUMMARY OF MATERIALS AND WORKS (ONE LEG)						Ø16	Ø12	Ø8	
Total length per dia. :						m	39.6	47.6	22.1
Unit weight of reinforcing steel :						kg	1.579	0.888	0.395
Total weight of reinforcing steel (per dia) :						kg	62.5	42.3	8.7
Total weight of reinforcement :								113.5	Kg
Excavation :			4.995 m³	Concrete :		1.330 m³			
Backfilling :			3.912 m³	Blinding :		0.158 m³			

NOTES:

GENERAL NOTES:

- DIMENSIONS IN cm OR AS SPECIFIED.
- STUB ANGLE DRAWING NO. KC06.0040_OHL_STR_22-05-02 sh.016.
- DIMENSION "T" 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:

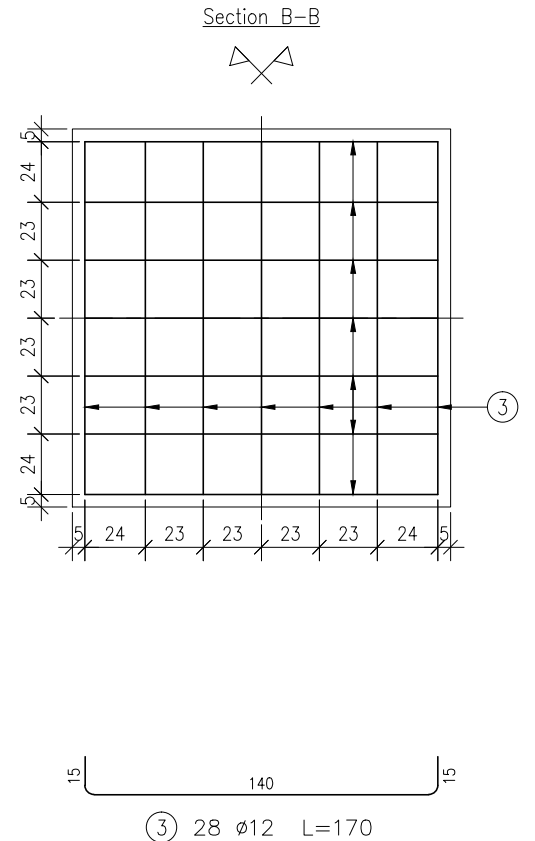
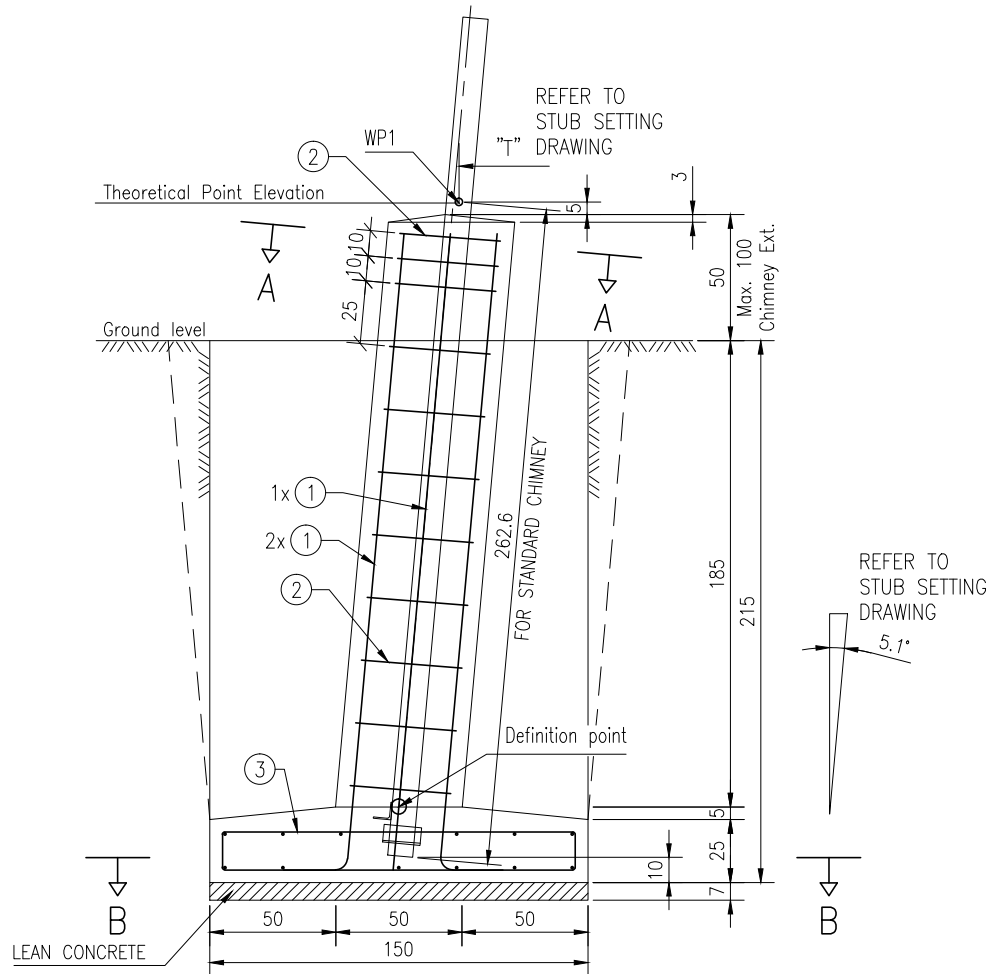
- CONSIDERED WATER LEVEL IS ALWAYS BELOW FOUNDATION.
- SOIL TYPE 1:
 - SOIL ANGLE OF REPOSE: 30°.
 - SOIL UNIT WEIGHT: 1600 kg/m³.
 - ULTIMATE BEARING CAPACITY: 6 daN/cm².
 - ALLOWABLE BEARING CAPACITY: 2 daN/cm².
- LOADING AS SHOWN IN TOWER DESIGN CALCULATION.
- IF ANY OF THE ABOVE ASSUMPTIONS ARE FOUND 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:

- 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	21/05/13	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 LF1 for Tower Type L		
THIS DRAWING SHALL NOT BE COPIED, REPRODUCED, TRANSMITTED OR GRANTED TO THIRD PARTIES WITHOUT OUR PRIOR AGREEMENT			DRAWING No.: 100008-L0-DG-CW03		