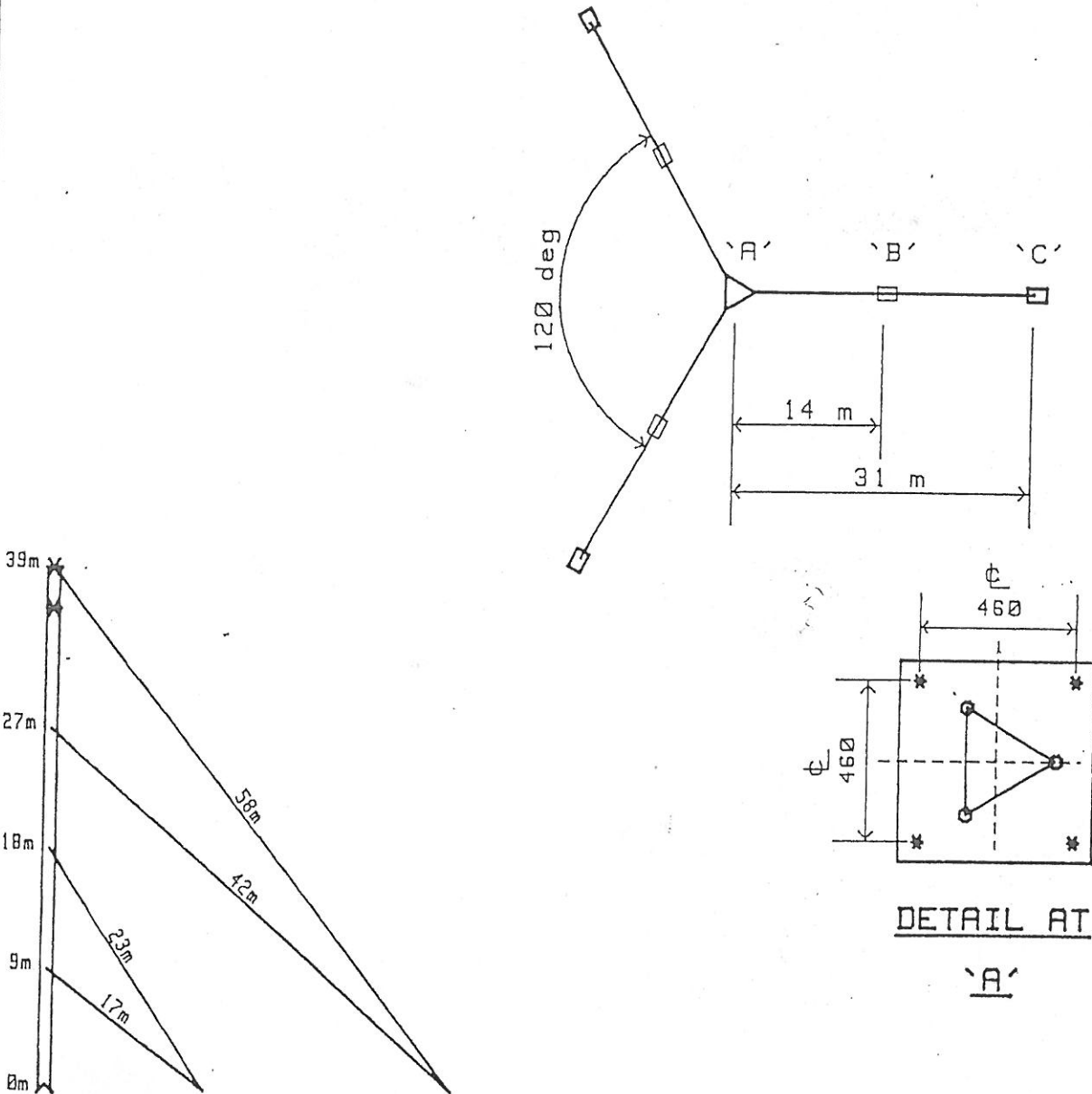


**ARRANGEMENT of 39 m GUYED LATTICE MAST**



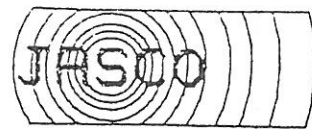
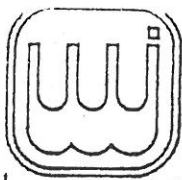
**SPECIFICATION**

AERIAL/ANTENNA POSITION:- One at 39 m and One at 36 m  
 EACH ANTENNA:- AREA  $0.8m^2$ , HORIZONTAL LOAD 105 kg & MASS 60kg  
 GUY POST TENSIONING:-  
 6mm dia. 1.6kN ~ 8mm dia. 2.8kN ~ 9.8mm dia. 4.3kN  
 12mm dia. 6.5kN ~ 13.3mm dia. 7.7kN

Designed by :- H. LAWRENCE & PARTNERS

Consulting Engineers

Jan. 1989



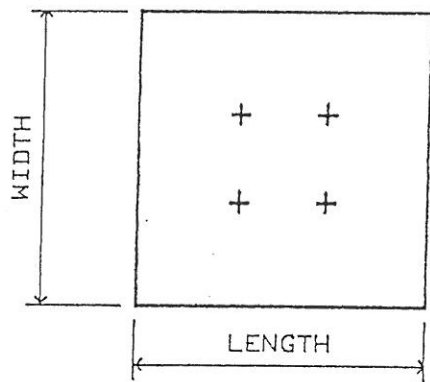
**FOUNDATIONS for 39 m GUYED LATTICE MAST**

- a) VOLUME of CONCRETE REQ'D ~ 3.48 m<sup>3</sup>
- b) ANGLE of REPOSE of SOIL is 0 deg
- c) FOUNDATION BOLTS are M20 dia. @ 460mm CROSS CENTRES and PROJECT ABOVE THE CONCRETE 40mm.
- d) MASS of MAST 546 kg
- e) MASS of SUNDRIES 55 kg TOTAL MASS 659 kg
- e) MASS of GUYS 58 kg

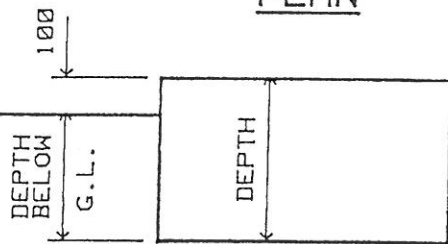
DESCRIPTION	A	B	C	D	
VERTICAL LOAD	28.29	-4.08	-8.26	0.00	kN
HORIZONTAL LOAD	0.41	4.87	8.26	0.00	kN
BENDING MOMENT	1.41				kNm
BEARING PRESSURE	101.13	172.19	136.70	0.00	kPa
FOUNDATION LENGTH	0.70	0.95	1.20	0.00	m
FOUNDATION L1	n/a	0.32	0.40	0.00	m
FOUNDATION L2	n/a	0.63	0.80	0.00	m
FOUNDATION WIDTH	0.70	0.66	0.78	0.00	m
FOUNDATION DEPTH	0.60	0.65	0.70	0.00	m
DEPTH BELOW G.L.	0.50	0.55	0.60	0.00	m

**BASE TYPE 'A'**

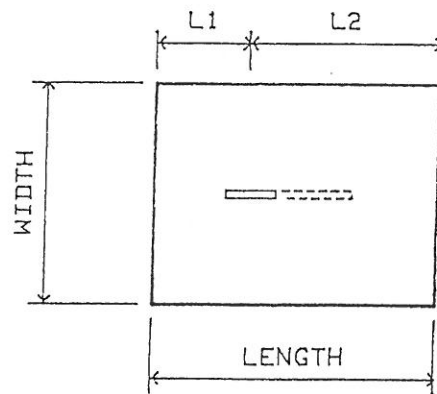
**BASES TYPE 'B', 'C' & 'D'**



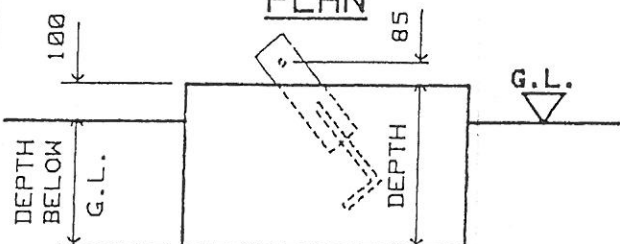
PLAN



SECTION



PLAN

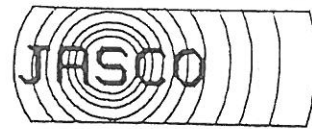
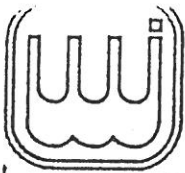


SECTION

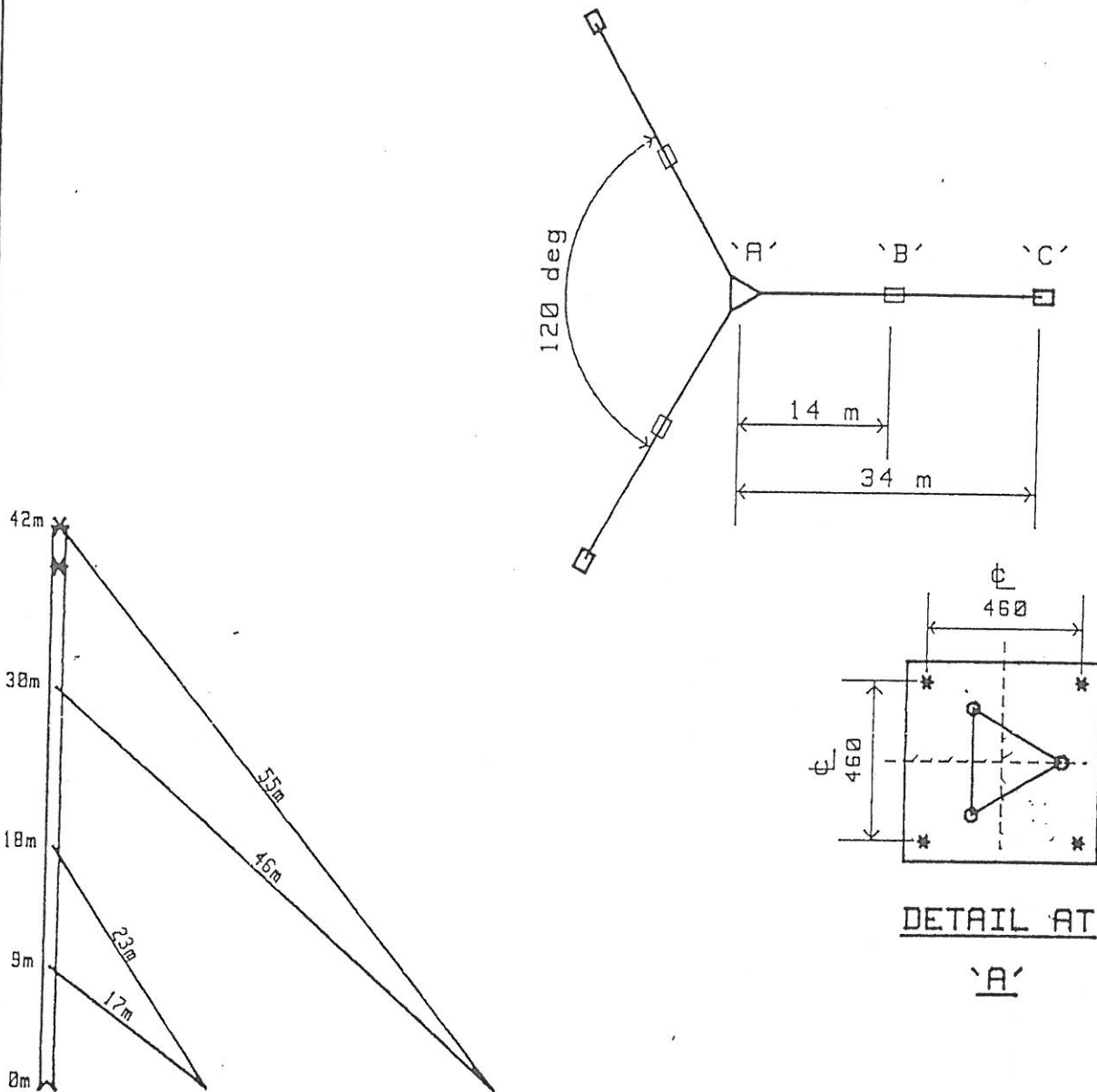
Designed by :- H. LAWRENCE & PARTNERS

Consulting Engineers

Jan. 1989



**ARRANGEMENT of 42 m GUYED LATTICE MAST**



**SPECIFICATION**

AERIAL/ANTENNA POSITION:- One at 42 m and One at 39 m  
 EACH ANTENNA:- AREA  $0.8m^2$ , HORIZONTAL LOAD 107 kg & MASS 60kg  
 GUY POST TENSIONING:-  
 6mm dia. 1.6kN ~ 8mm dia. 2.8kN ~ 9.8mm dia. 4.3kN  
 12mm dia. 6.5kN ~ 13.3mm dia. 7.7kN

Designed by :- H. LAWRENCE & PARTNERS

Consulting Engineers

Jan. 1989



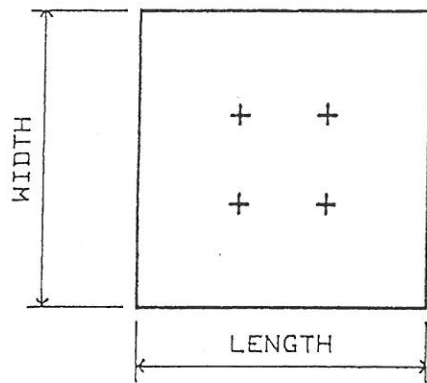
**FOUNDATIONS for 42 m GUYED LATTICE MAST**

- a) VOLUME of CONCRETE REQ'D ~ 3.63 m<sup>3</sup>
- b) ANGLE of REPOSE of SOIL is 0 deg
- c) FOUNDATION BOLTS are M20 dia. @ 460mm CROSS CENTRES and PROJECT ABOVE THE CONCRETE 40mm.
- d) MASS of MAST 588 kg
- e) MASS of SUNDRIES 55 kg TOTAL MASS 704 kg
- e) MASS of GUYS 61 kg

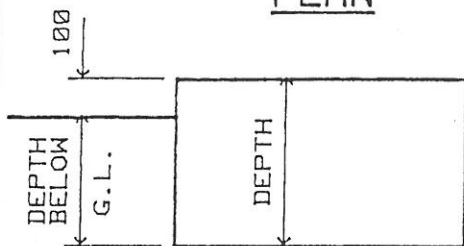
DESCRIPTION	A	B	C	D	
VERTICAL LOAD	29.36	-4.35	-8.61	0.00	kN
HORIZONTAL LOAD	0.38	5.10	8.66	0.00	kN
BENDING MOMENT	1.37				kNm
BEARING PRESSURE	102.33	148.20	167.55	0.00	kPa
FOUNDATION LENGTH	0.70	0.95	1.20	0.00	m
FOUNDATION L1	n/a	0.32	0.40	0.00	m
FOUNDATION L2	n/a	0.63	0.80	0.00	m
FOUNDATION WIDTH	0.70	0.70	0.81	0.00	m
FOUNDATION DEPTH	0.60	0.65	0.70	0.00	m
DEPTH BELOW G.L.	0.50	0.55	0.60	0.00	m

**BASE TYPE 'A'**

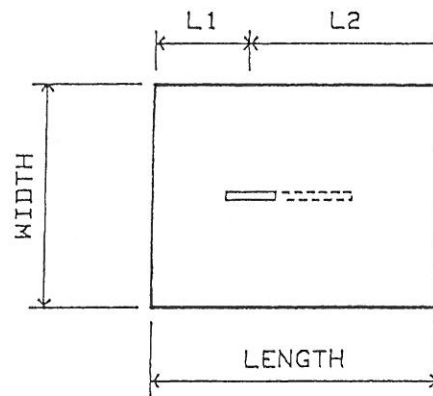
**BASES TYPE 'B', 'C' & 'D'**



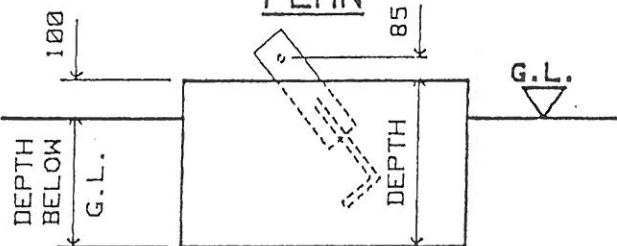
PLAN



SECTION



PLAN

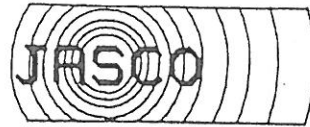
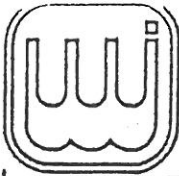


SECTION

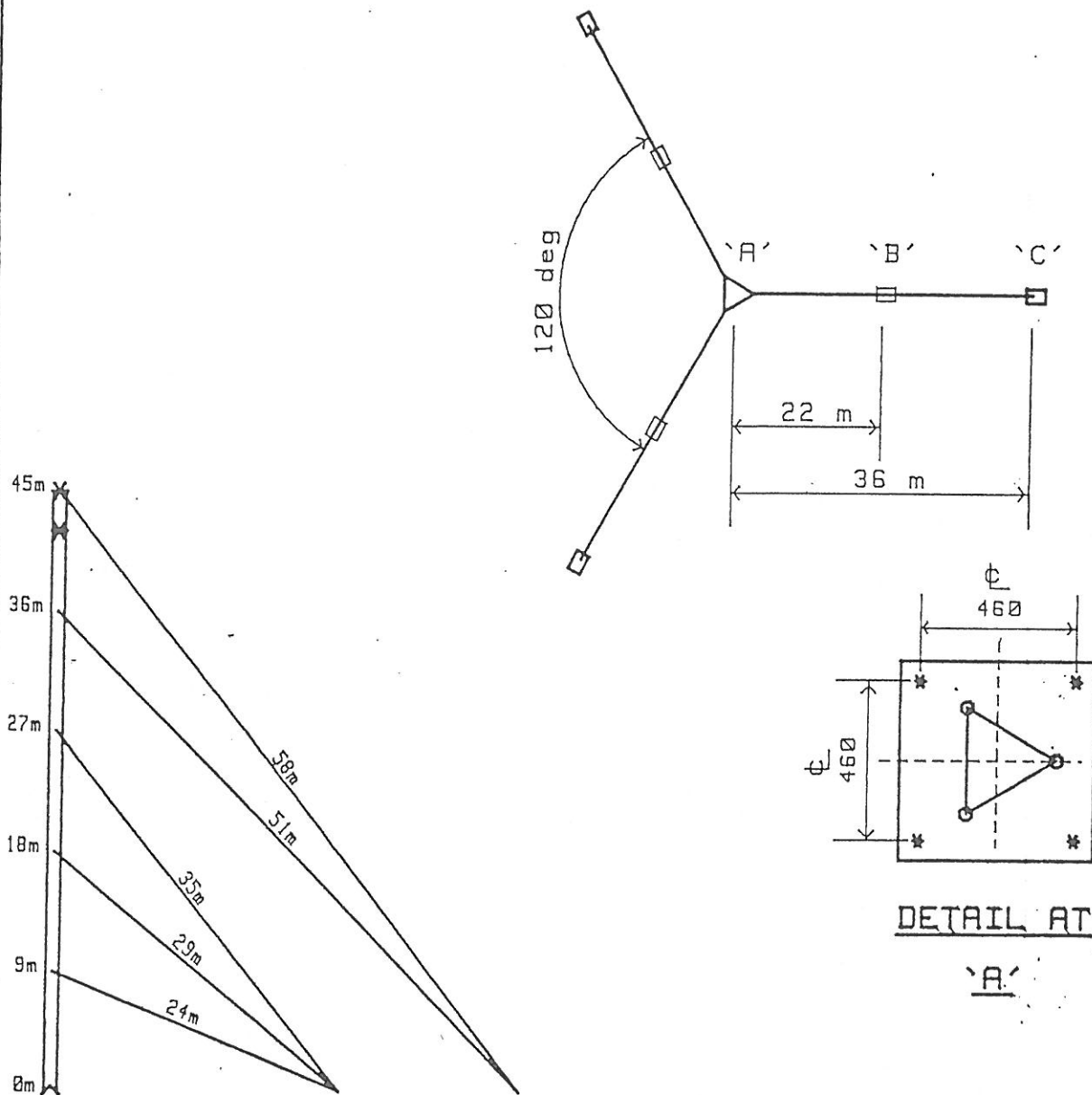
Designed by :- H. LAWRENCE & PARTNERS

Consulting Engineers

Jan. 1989



**ARRANGEMENT of 45 m GUYED LATTICE MAST**



**SPECIFICATION**

AERIAL/ANTENNA POSITION:- One at 45 m and One at 42 m  
 EACH ANTENNA:- AREA  $0.8m^2$ , HORIZONTAL LOAD 110 kg & MASS 60kg  
 GUY POST TENSIONING:-  
 6mm dia. 1.6kN ~ 8mm dia. 2.8kN ~ 9.8mm dia. 4.3kN  
 12mm dia. 6.5kN ~ 13.3mm dia. 7.7kN

Designed by :- H. LAWRENCE & PARTNERS

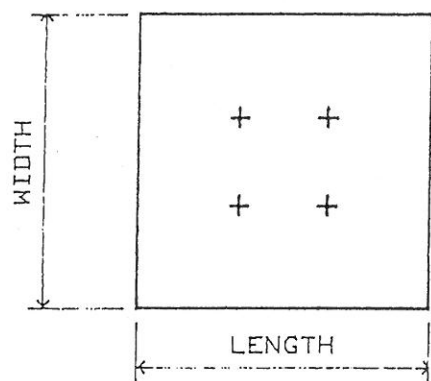
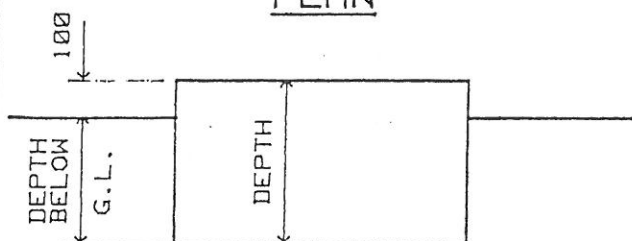
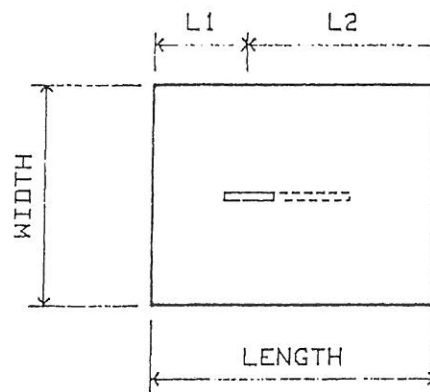
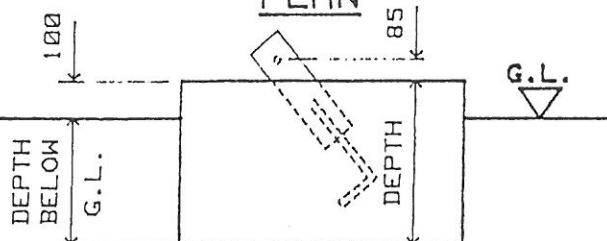
Consulting Engineers

Jan. 1989

**FOUNDATIONS for 45 m GUYED LATTICE MAST**

- a) VOLUME of CONCRETE REQ'D ~ 4.05 m<sup>3</sup>
- b) ANGLE of REPOSE of SOIL is 0 deg
- c) FOUNDATION BOLTS are M20 dia. @ 460mm CROSS CENTRES and PROJECT ABOVE THE CONCRETE 40mm.
- d) MASS of MAST 630 kg
- e) MASS of SUNDRIES 55 kg TOTAL MASS 769 kg
- e) MASS of GUYS 84 kg

DESCRIPTION	A	B	C	D	
VERTICAL LOAD	33.41	-6.08	-8.68	0.00	kN
HORIZONTAL LOAD	0.46	8.30	8.23	0.00	kN
BENDING MOMENT	1.63				kNm
BEARING PRESSURE	115.95	189.06	135.79	0.00	kPa
FOUNDATION LENGTH	0.70	1.13	1.20	0.00	m
FOUNDATION L1	n/a	0.38	0.40	0.00	m
FOUNDATION L2	n/a	0.75	0.80	0.00	m
FOUNDATION WIDTH	0.70	0.80	0.79	0.00	m
FOUNDATION DEPTH	0.60	0.65	0.70	0.00	m
DEPTH BELOW G.L.	0.50	0.55	0.60	0.00	m

**BASE TYPE 'A'**
**BASES TYPE 'B', 'C' & 'D'**

PLAN

SECTION

PLAN

SECTION

Designed by :- H. LAWRENCE &amp; PARTNERS

Consulting Engineers

Jan. 1989