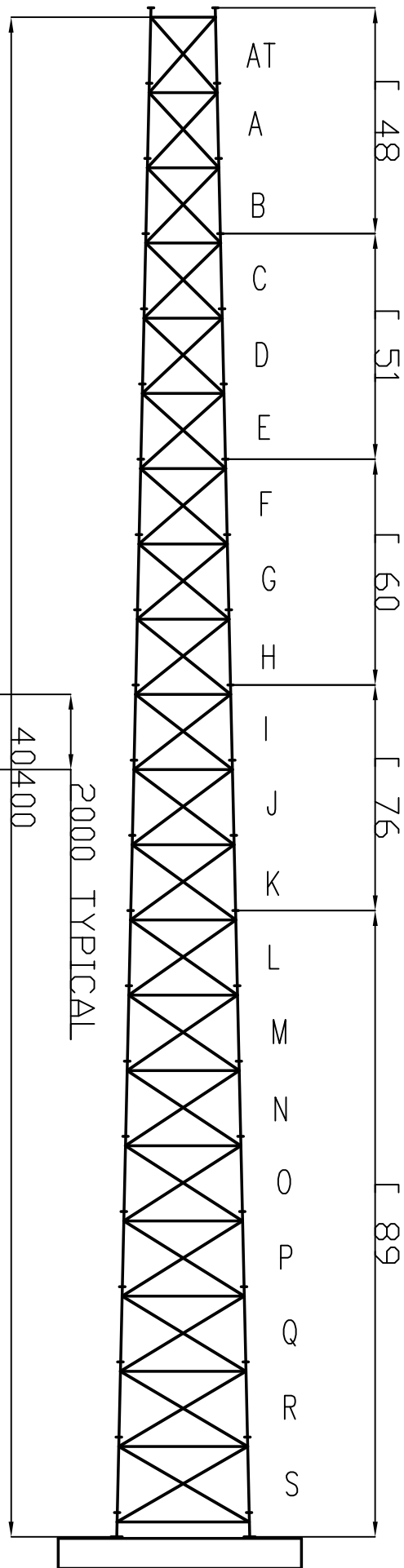
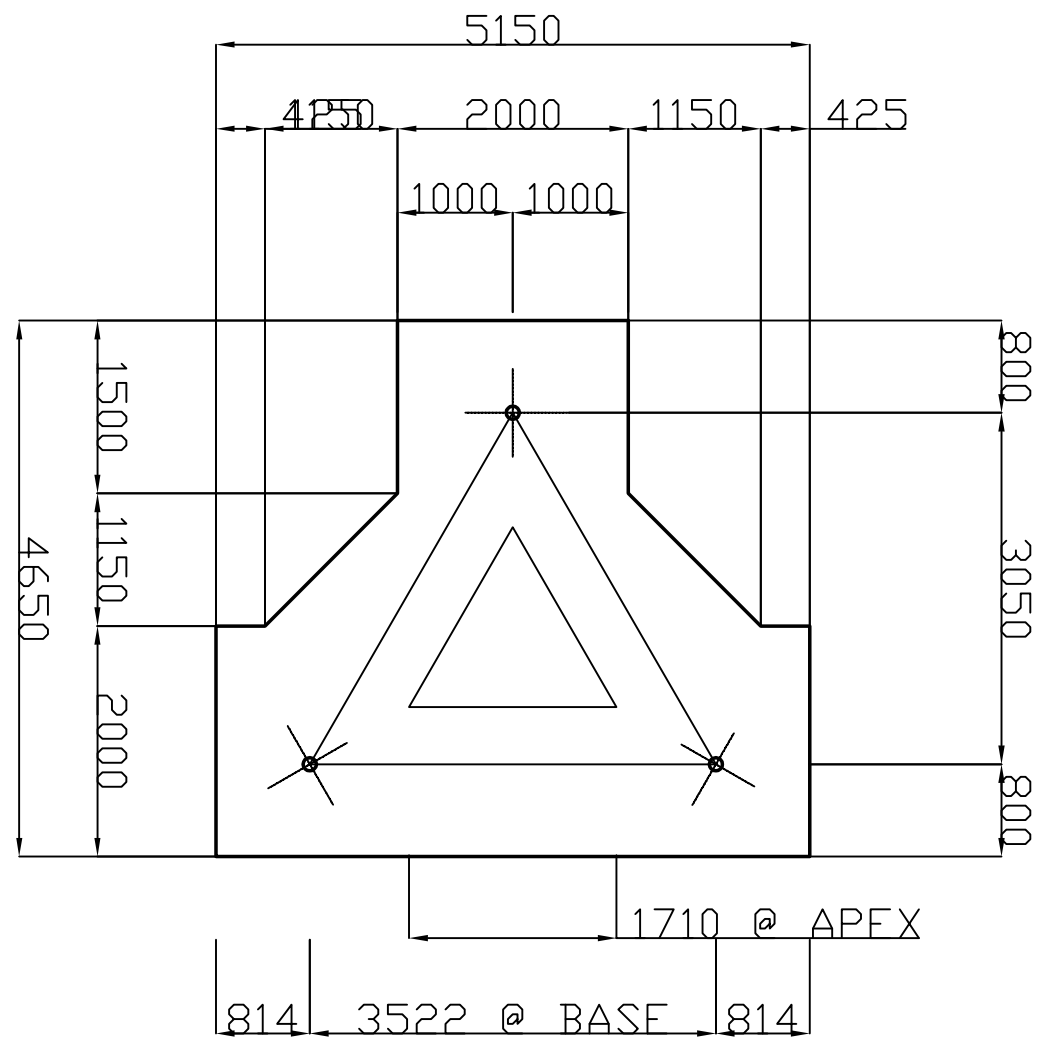


## DETAILS OF 40m TOWER

### TOWER & FOUNDATION DATA (INCLUDING CROWS NEST & ANTENNA)



- |    |                                      |                        |
|----|--------------------------------------|------------------------|
| a) | - STRUCTURAL STEEL DESIGN            | - SABS 0162-1:1993     |
| b) | - WIND DESIGN                        | - SABS 0160-1989(1990) |
|    | - i) WIND VELOCITY                   | - 40 m/s               |
|    | - ii) MEAN RETURN                    | - 25 YEARS             |
|    | - iii) TERRAIN CATEGORY              | - 2 CLASS B            |
| c) | - MAXIMUM SERVICE LOAD (per leg)     | - 220 kN               |
| d) | - TOTAL MASS OF TOWER                | - 4000 kg              |
| e) | - TOTAL HORIZONTAL SHEAR DUE TO WIND | - 23 kN                |
| f) | - MAXIMUM OVERTURNING MOMENT         | - 640 kN.m             |



PLAN ON FOOTING 1 : 100

- |    |   |                      |
|----|---|----------------------|
| g) | - FLAT PLATE AREA OF ANTENNA (including crows nest) | - 5,4 m <sup>2</sup> |
| h) | - RESISTANCE TO OVERTURNING/UPLIFT FACTOR (min.)    | - 1,5                |
| i) | - VOLUME OF CONCRETE REQUIRED                       | - 18 m <sup>3</sup>  |
| j) | - MINIMUM SAFE BEARING CAPACITY OF SOIL REQUIRED    | - 150 kPa            |
| k) | - ALL STEELWORK GRADE 300 W                         |                      |

Designed by :

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DRW. No.  
1421-T4 REV.1

DATE  
16-02-95