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Date: 26-06-2026

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SURVEY RESULTS

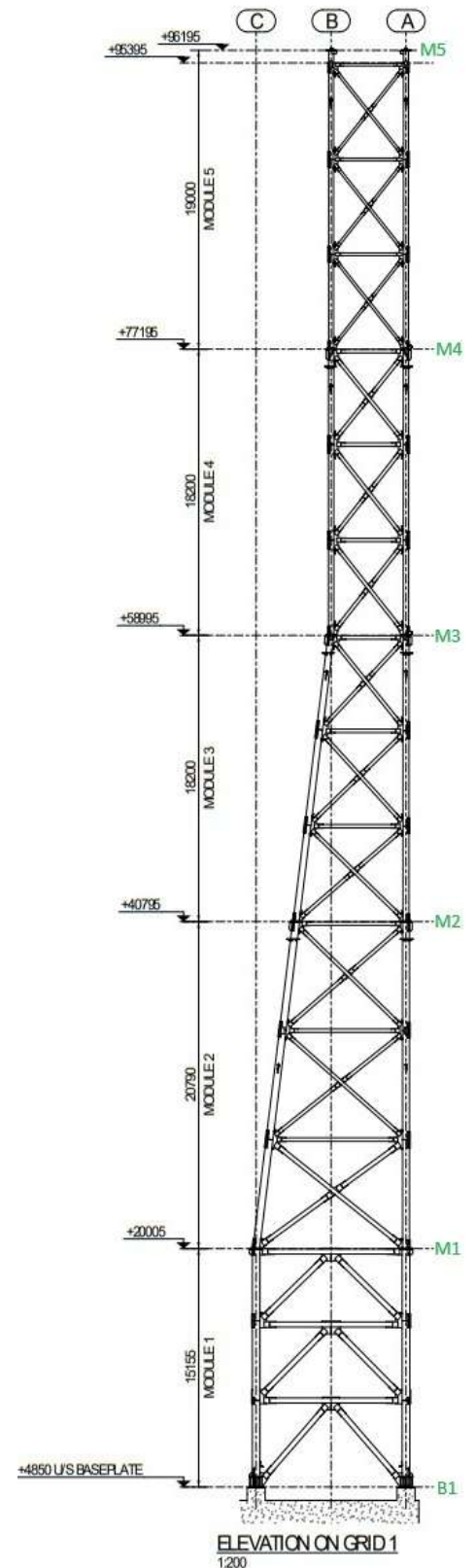
COV-TEN-CON 514 stack raise works **TOWER 1 asbuilt**

Method.

Local control points used to establish the position of the instrument (Leica MS50 +/-1mm)

3 points were recorded at each level on the stack as shown from 3 instrument positions.

The center was then calculated from these measurements and also the coordinate differences from the base position.



Measurements

Module 5

T13 E:262.612 N:384.102 RL:96.187
T14 E:260.109 N:388.424 RL:96.194
T15 E:257.621 N:384.097 RL:96.187

M5 E:260.115 N:385.542 RL:96.189
dE:+0.004 dN:-0.022 dRL:-0.006
Lean 22mm 169°31'12"

Module 4

T10 E:262.625 N:384.126 RL:77.173
T11 E:257.634 N:384.114 RL:77.175
T12 E:260.126 N:388.447 RL:77.175

M4 E:260.126 N:385.564 RL:77.174
dE:+0.015 dN:+0.000 dRL:-0.016
Lean 15mm 88°33'55"

Module 3

T7 E:262.606 N:384.123 RL:58.978
T8 E:257.604 N:384.101 RL:58.975
T9 E:260.085 N:388.444 RL:58.982

M3 E:260.099 N:385.556 RL:58.978
dE:-0.012 dN:-0.008 dRL:-0.012
Lean 14mm 236°13'31"

Module 2

T4 E:262.621 N:384.122 RL:40.765
T5 E:255.285 N:384.122 RL:40.767
T6 E:258.948 N:390.472 RL:40.769

M2 E:258.953 N:386.238 RL:40.767
dE:+0.009 dN:+0.001 dRL:-0.023
Lean 9mm 86°08'09"

Module 1

T1 E:252.604 N:384.124 RL:20.002
T2 E:262.610 N:384.118 RL:20.004
T3 E:257.609 N:392.789 RL:19.997

M1 E:257.609 N:387.011 RL:20.001
dE:-0.002 dN:+0.004 dRL:+0.001
Lean 4mm 333°26'06"

Tower Base (u/s base plates)

C1 E:252.613 N:384.117 RL:4.853
C2 E:262.609 N:384.117 RL:4.852
C3 E:257.614 N:392.780 RL:4.850

B1 E:257.611 N:387.007 RL:4.852

M1 center E:257.611 N:387.007
M2 center E:258.944 N:386.237 (design shift of E:+1.333 N:-0.770)
M3 center E:260.111 N:385.564 (design shift of E:+2.500 N:-1.443)
M4 center E:260.111 N:385.564
M5 center E:260.111 N:385.564

Chris John
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