

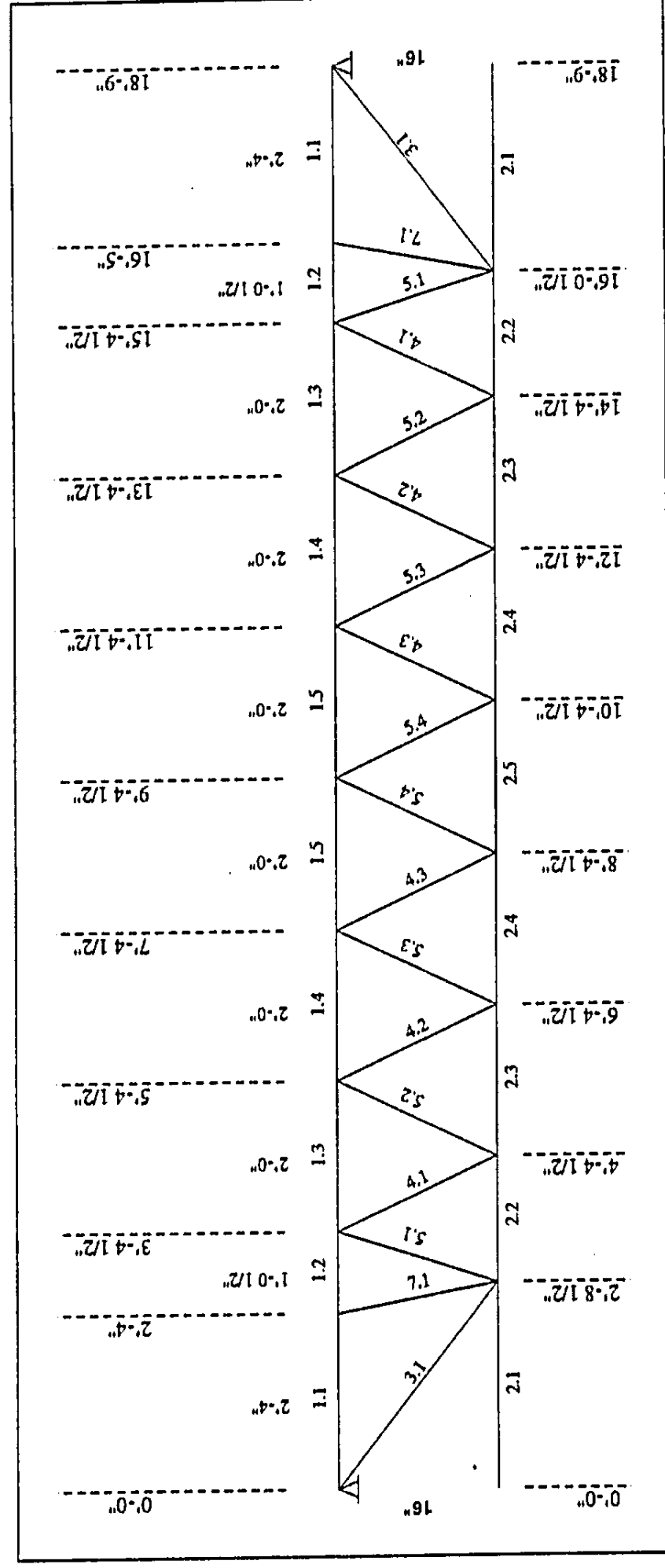


Mark: J15

Project: WEST MIAMI SIX MODEL B
01/24/05 17:07:30

Project: WEST MIAMI SIX MODEL B
JOIST CALCULATION ACCORDING TO HAM BRO SPECIFICATIONS

Mark.....: J15 (Ham bro, Symmetrical, Parallel, Free ends)



LOADING CONDITIONS
(THE SHOWN VALUES ARE REAL)

TOTAL LOAD ...: 430.94 lb/ft
105.00 lb/ft² x 4'-1 1/4" H16 LIVE LOAD ...: 164.17 lb/ft²
40.00 lb/ft² x 4'-1 1/4"

HAM BRO

Total thickness of the Slab..... = 3.00 in
Perimeter of the Slab..... = N
Length of the Extension of the Slab..... = 0.00 in
Concrete Density..... = 145.00 lb/ft³
Compression Resistance (f'c)..... = 4000 psi
Concrete Modulus of Elasticity (Ec)..... = 4187.00 ksi²
Composite Maximum Capacity..... = 439.73 klf
Non-Composite Maximum Capacity..... = 439.73 klf
Non-Composite Loading..... = DL = 41.24 psf
Horizontal Slab at the Interface. (Formula 2003)..... = LL = 20.00 psf
H16 Deflection under service live load..... = 0.11 in (U/ 2021)
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Presence of 'high-chair'..... = N
Type of Ham bro (presence of reinforcing)..... = N

DEFLECTION

Allowed deflection under live load..... = 0.62 in (L/ 360)
Calculated deflection under service live load..... = 0.11 in (U/ 2021)
H16 Deflection: Beam Formula * 1.3 With Composite Inertia..... = 0.11 in (U/ 2021)
Required camber..... = 0.32 in