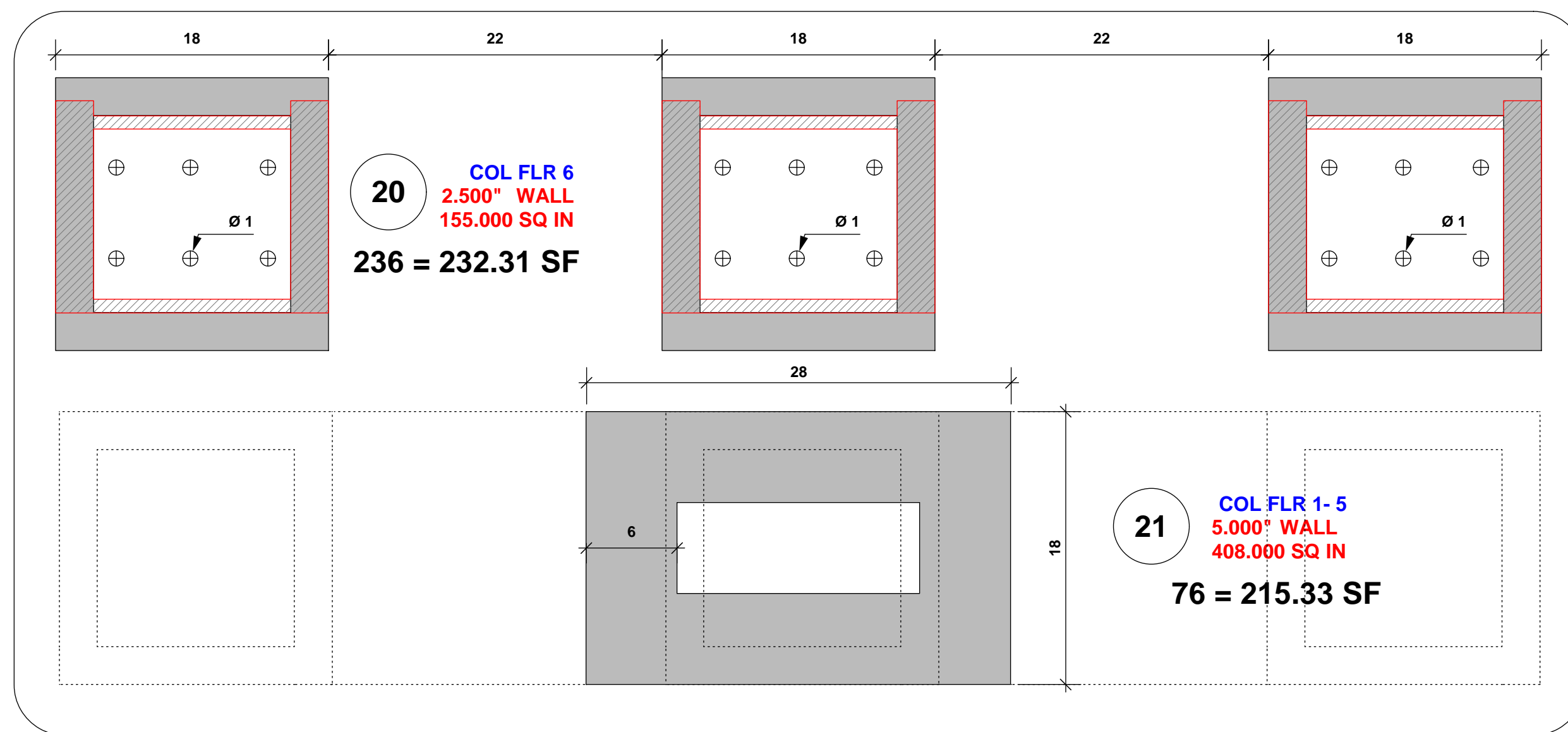
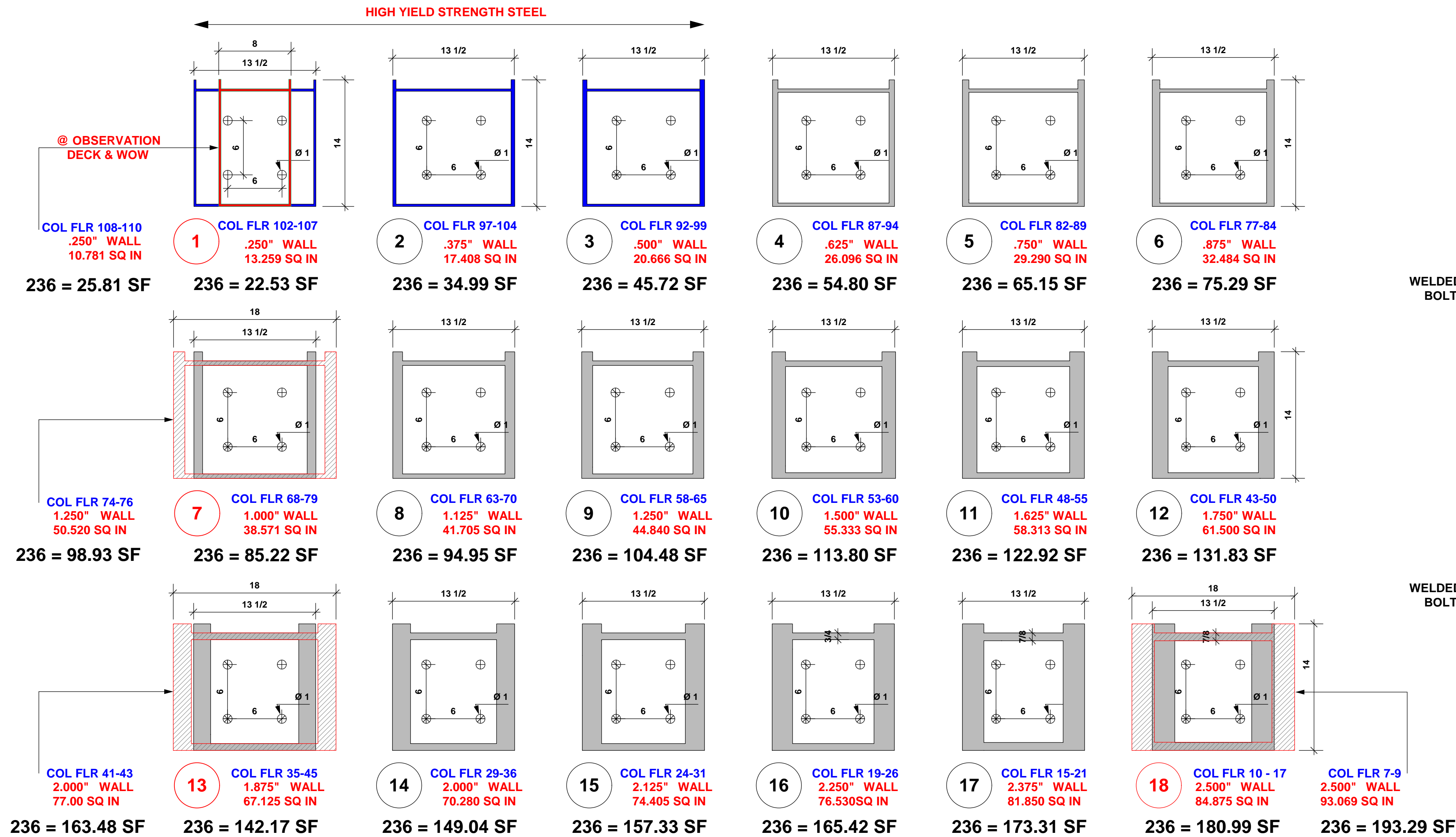
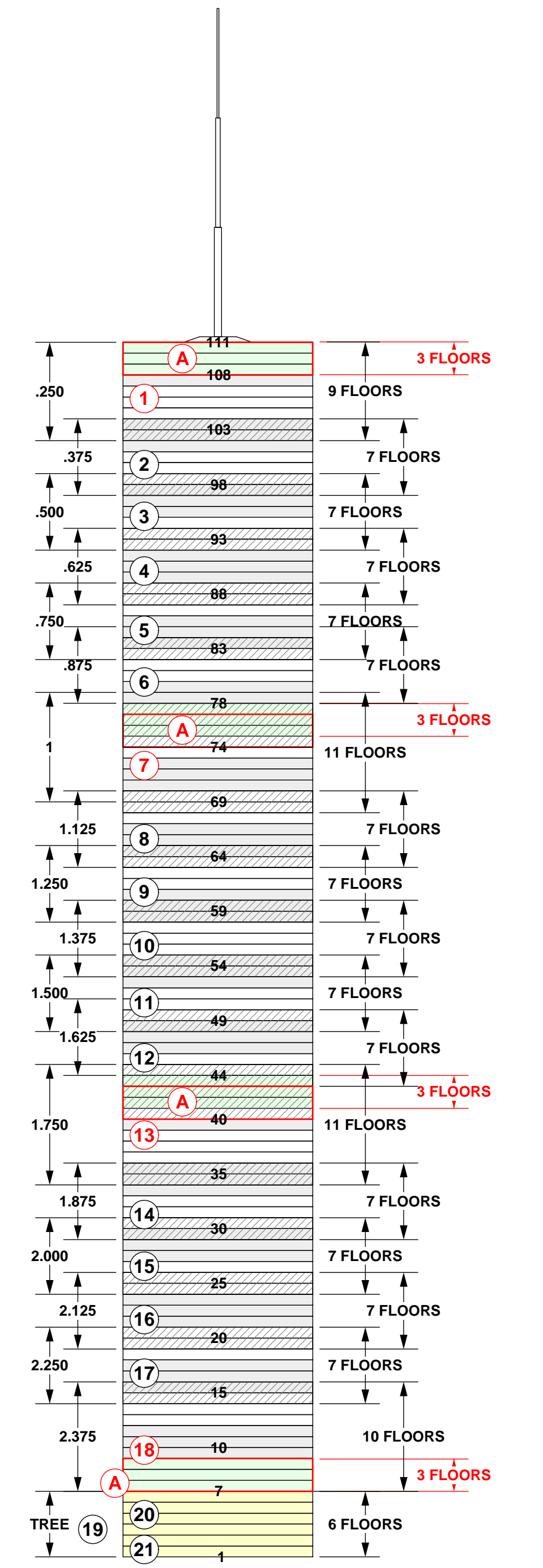
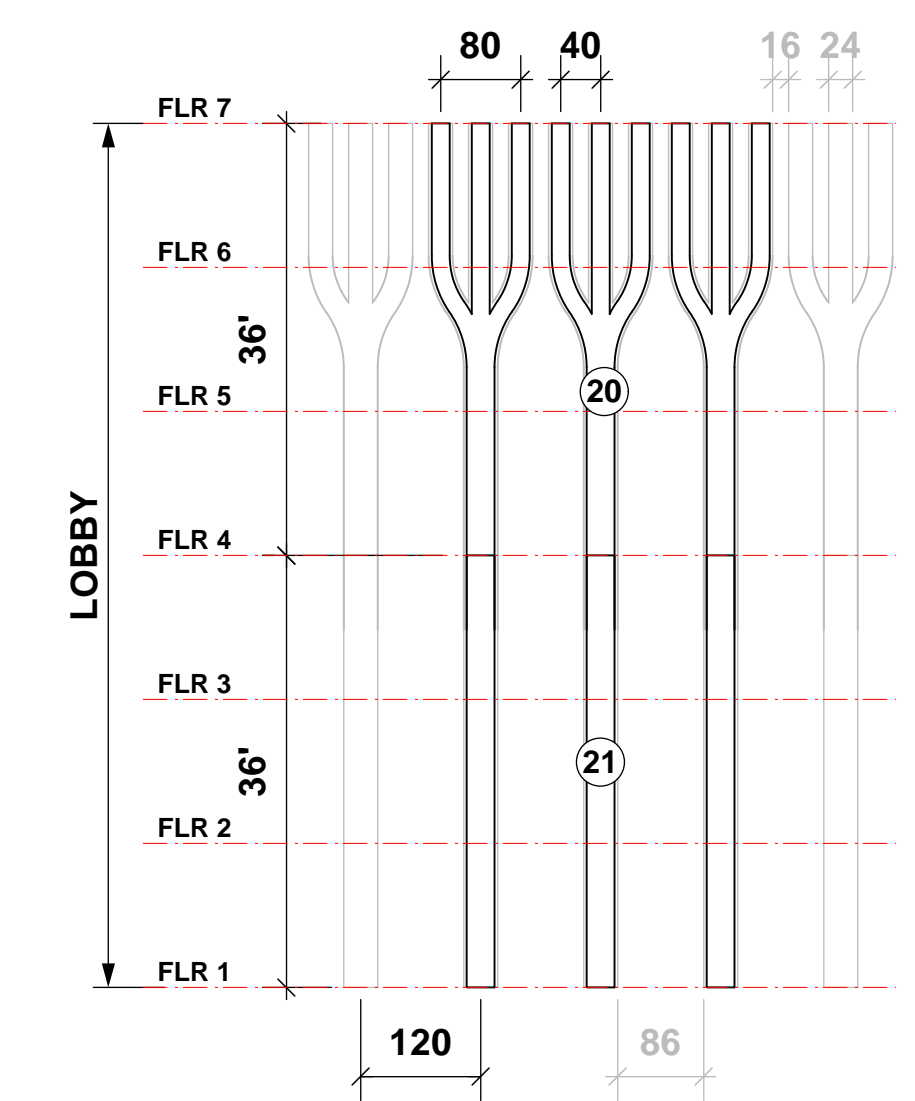
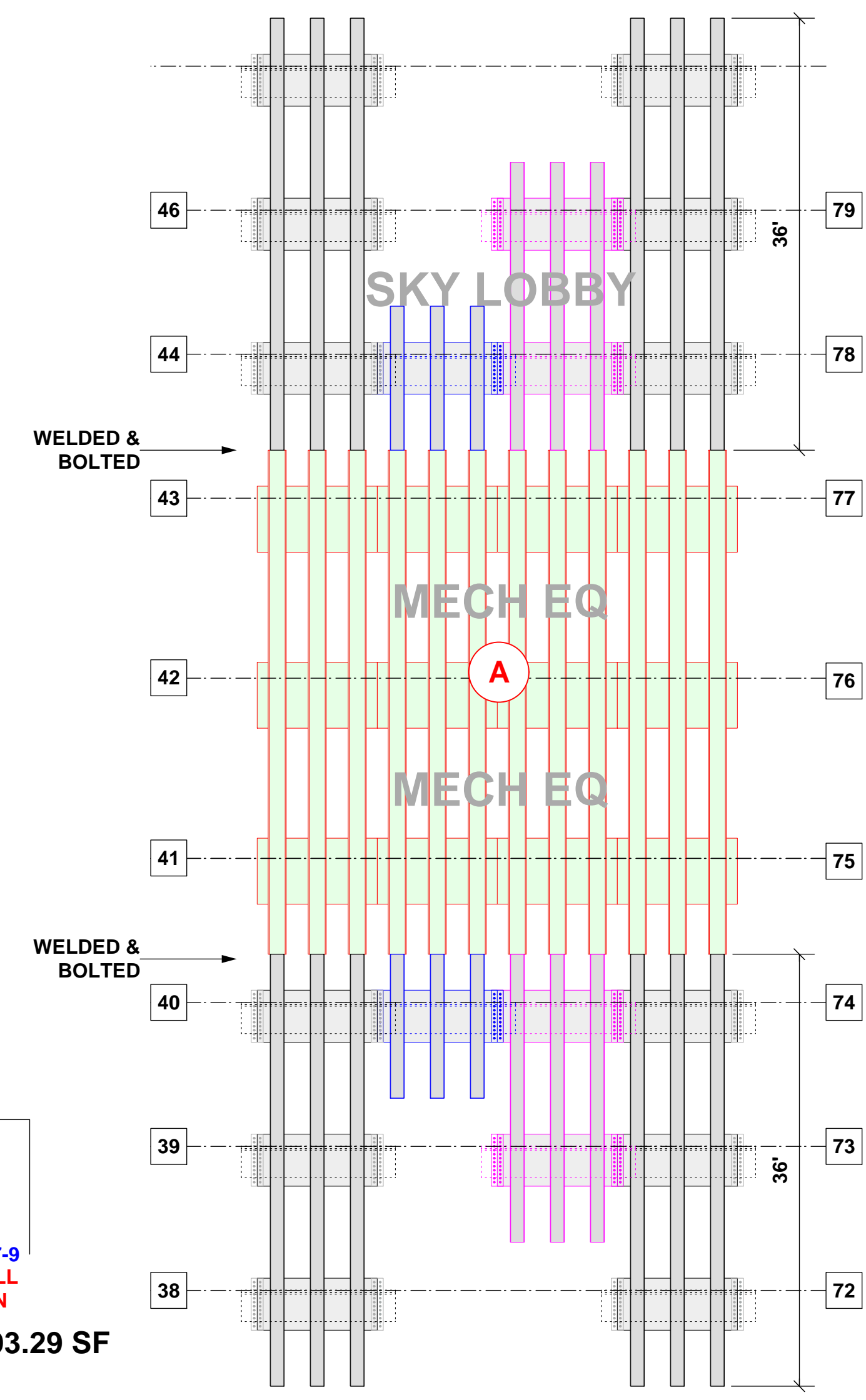


# FACADE COLUMNS + FLOOR 1 FOS STUDY

PRELIMINARY



**NOTES**  
CORNER PANELS WERE 2 STORIES EACH  
CORNER PANELS AT MECHANICAL FLOORS WERE 3 STORIES AND HAD EXTENDED WEBS ON ONE SIDE



8 CORNER COLUMNS = 8.61 SF  
76 TREE COLUMNS = 215.33 SF  
TOTAL AREA FACADE COLUMNS = 223.94 SF  
TOTAL AREA 47 CORE COLUMNS = 122.17 SF  
TOTAL AREA ALL COLUMNS = 346.11 SF  
% AREA FACADE COLUMNS = 66%  
% AREA OF CORE COLUMNS = 35%  
A36 STEEL @ 36,000 POUNDS PER SQUARE INCH  
YIELD STRENGTH OF FACADE = 580,464 TONS  
YIELD STRENGTH OF CORE = 316,655 TONS  
TOTAL YIELD STRENGTH OF ALL COLUMNS = 897,129 TONS  
BUILDING GROSS WEIGHT = 425,000 TONS  
FACTOR OF SAFETY = 2.11  
BUILDING GROSS WEIGHT = 375,000 TONS  
FACTOR OF SAFETY = 2.39