Frontage Increase Example (CBC 506.2):

Building Perimeter, P = 150+150+50+80+100+70 = 600 ft.
Qualifying Building Perimeter, F = 150+150+80+100+70 = 550 ft.
Width Limit, W = [((30+25)/2)*150) + (30*(150+70+100+80)]/550 = 29.3 ft. ≤ 30 ft. *

Determines Average Width of North Side Yard

Sum of Yards ≥ 30 ft.

Frontage Increase, I_f = [F/P - 0.25]W/30 = [550/600 - 0.25]29.3/30 = 0.65 < 0.75 max

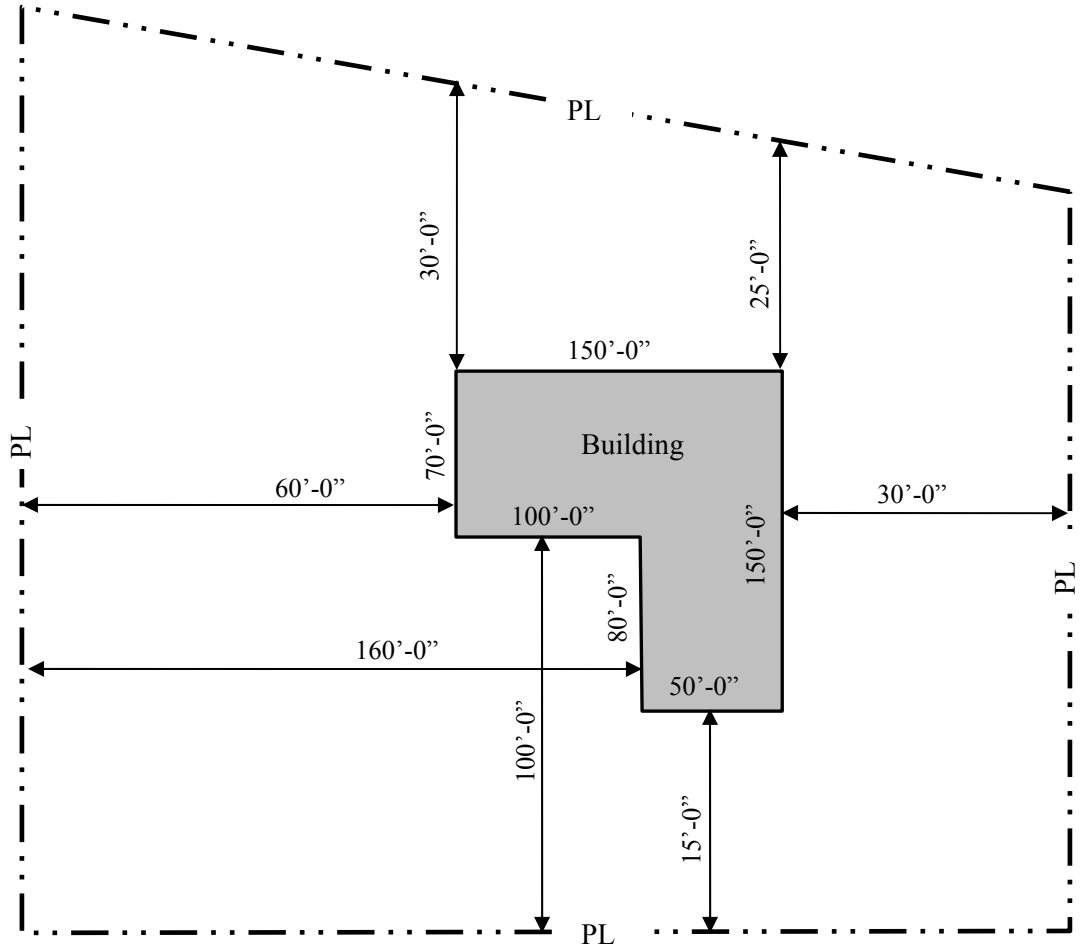
Note: Since the south side yard is < 20 feet, the south wall length is not used to determine the Qualifying Building Perimeter, F nor is the south side yard and its wall length used to determine the Width Limit, W.

* Exception to CBC 506.2.1 states "The quantity of W divided by 30 shall be permitted to be a maximum of 2 when the building meets all the requirements of Section 507 except for compliance with the 60-foot public way or yard requirement, as applicable." Where this exception is applicable, the weighted average is calculated per CBC 506.2.1 with a limiting value of 60 for "W". The Width Limit, W would then be calculated as follows:

Width Limit, W = [((30+25)/2)*150) + (30*150) + (60*(70+100+80)]/550 = 42.95 ft. ≤ 60 ft.

Sum of Yards ≥ 60 ft.

Frontage Increase, I_f = [550/600 - 0.25]42.95/30 = 0.95 < 1.5 max



SITE PLAN