24" CORNER BLOCK & GRAVEL INFILL

CONCRETE BLOCK DATA
DESIGN UNIT WEIGHT \( (\gamma_c) \) = 142 pcf
VOLUME \( (V_c) \) = 11.23 ft³
BLOCK WEIGHT \( (W_c) \) = 1,595 lbs
CENTER OF GRAVITY \( (COG_c) \) = 12.75" (SEE NOTES)

GRAVEL INFILL DATA
DESIGN UNIT WEIGHT \( (\gamma_g) \) = 110 pcf
VOLUME \( (V_g) \) = 4.77 ft³
GRAVEL INFILL WEIGHT \( (W_g) \) = 508 lbs
CENTER OF GRAVITY \( (COG_g) \) = 9.92" (SEE NOTES)

COMBINED UNIT DATA
DESIGN UNIT WEIGHT \( (\gamma_t) \) = \( \frac{(1,595 \text{ lbs} + 508 \text{ lbs})}{16 \text{ ft}³} = 131 \text{ pcf} \)
VOLUME \( (V_t) \) = 11.23 ft³ + 4.77 ft³ = 16.00 ft³
TOTAL UNIT WEIGHT \( (W_t) \) = 2,103 lbs
CENTER OF GRAVITY \( (COG_t) \) = 12.07" (SEE NOTES)

NOTES:
- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
- COG MEASUREMENTS ARE FROM BACK OF BLOCK.