

▷ PRECAST BACKWALLS

$$f'_{ci} = 3500 \text{ PSI} \quad f'_c = 5000 \text{ PSI}$$

$$W_{T \text{ MAX}} = 14.56 \text{ T}$$

TWO ARE (2) LIFT LOCATIONS & BASED ON A 60° MINIMUM SUNG
ANGLE WITH THE HORIZONTAL,

$$\text{DESIGN LOAD / LIFT LOCATION} = \frac{14.56 \text{ T} \times 2}{(2)(0.866)} = 16.8 \text{ KLPS}$$

FROM ATTACHED PRODUCT INFORMATION USE 20 TAN x 19 3/4" SWIFT

LIFT ANCHORS, SWL (4:1 S.F.) = 40,000 LB, O.K.

ALSO CHECK ANCHORS USING PCI FIGURE 6.15.7A, CASE 3 (ANCHORS)

FOR FREE EDGES ON (2) OPPOSITE SIDES:

$$\phi P_c = \phi 2.67 \times \sqrt{f'_c} (1.0)(y_1 + 2d_e)$$

$$= (0.85)(2.67)(1.0)(3500)^{0.5} (27)(0 + 2(20 \frac{5}{16})) / 1000$$

$$= 147.3 \text{ KL}$$

$$\text{LIMITS } \phi = 0.85$$

$$\lambda = 1.0$$

$$f'_c = 3500 \text{ PSI}$$

$$x_1 = 27"$$

$$y_1 = 0$$

$$d_e = 19 \frac{3}{4} + \frac{9}{16} = 20 \frac{3}{16}"$$

$$F_{EN} \text{ SWL (4:1 S.F.)} = \frac{147.3}{4} = 36.8 \text{ KL} > 16.8 \text{ KL}$$

O.K. ✓