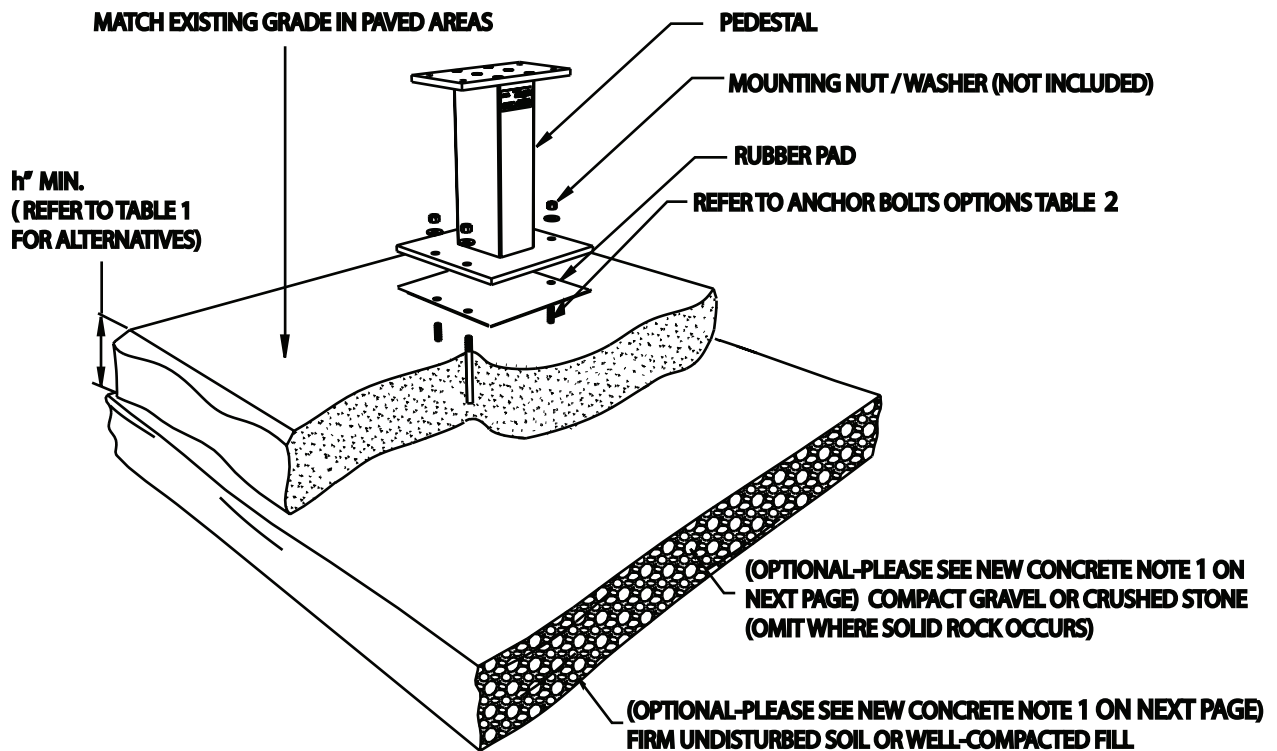
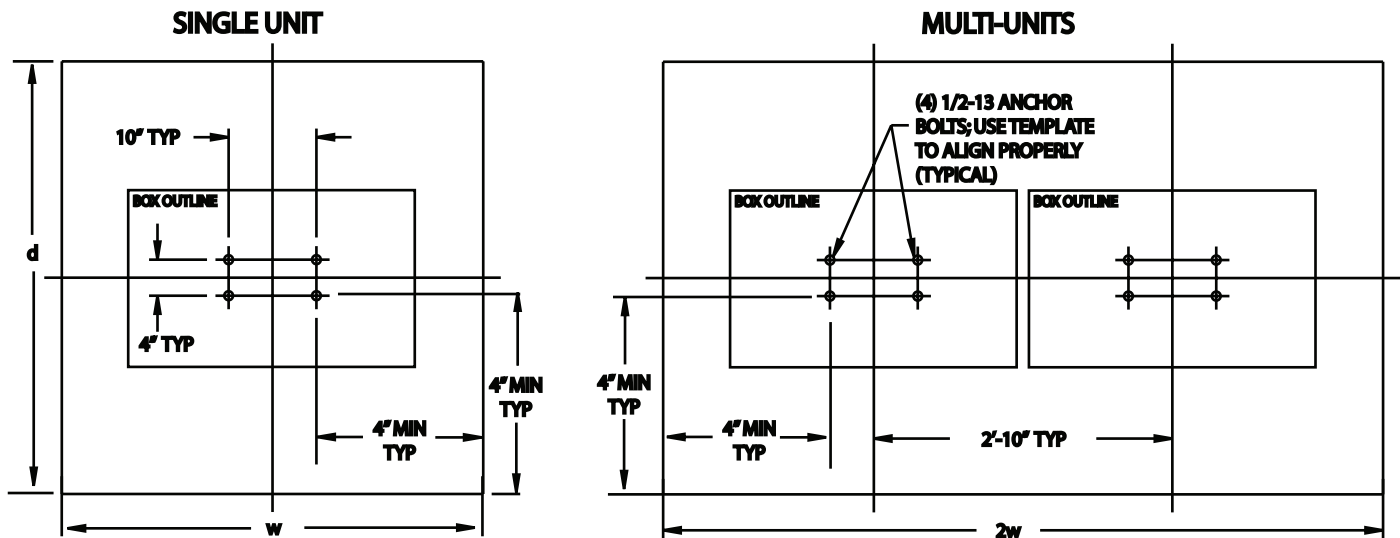


# CONCRETE FOUNDATION PREPARATION

vital™ cluster box unit - 1570 "F" Series



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## vital™ cluster box unit - 1570 "F" Series

### NEW CONCRETE BASE:

- 1) Depending on climatic and soil conditions in the area of installation, optional foundation material may be necessary as shown. Consult local building codes for recommendations.
- 2) Refer to Table 1 for thickness (h), width (w), and depth (d) of the concrete pad alternatives.
- 3) Concrete shall have a compressive strength of 3000 psi @ 28 days, contain 4% min ~ 6% max air entrapment and be placed with a 3.50~4.50 slump in accordance to 301.
- 4) Use wire mesh as per (Standard) or fiber reinforced concrete as per (Standard).

### EXISTING CONCRETE BASE:

- 1) Existing concrete pad must be at least 48" wide.
- 2) Concrete base and anchor bolts may be reused if:
  - a. existing 1/2" diameter expansion anchor bolts are firmly embedded in the concrete and not damaged or corroded;
  - b. concrete foundation is not damaged; *and*
  - c. bolt hole pattern of the new unit matches the installed anchor bolts.
- 3) Additional considerations include:
  - a. if concrete is only 4" thick, then option 'b' in Table 2 below cannot be used
  - b. any unused, existing anchor bolts must be cut flush to the level of the concrete surface
  - c. if concrete is damaged, replacement of foundation pad is required

TABLE 1: Pad Recommendations

<b>h (Thickness)</b>	<b>w (width) min</b>	<b>d (Depth) min</b>
<b>4"</b>	<b>47"</b>	<b>47"</b>
<b>5"</b>	<b>44"</b>	<b>44"</b>
<b>6"</b>	<b>42"</b>	<b>42"</b>
<b>7"</b>	<b>40"</b>	<b>40"</b>
<b>8"</b>	<b>39"</b>	<b>39"</b>

TABLE 2:

<b>Expansion Anchor Bolt Recommendations</b>
<b>a. Hilti Kwik Bolt II (<a href="http://www.hilti.com">www.hilti.com</a>)</b> <ul style="list-style-type: none"><li>- 1/2 inch diameter x 5 1/2 inches overall length</li><li>- Galvanized</li><li>- KB II 12-512, Stainless steel</li></ul> <b>Minimum embedment in concrete must be at least 3 1/2 inches</b>
<b>b. ITW Ramset Redhead Turbolt (<a href="http://www.hilti.com">www.hilti.com</a>)</b> <ul style="list-style-type: none"><li>- 1/2 inch diameter x 7 inches overall length</li><li>- Galvanized</li></ul> <b>Minimum embedment in concrete must be at least 4 1/8 inches</b>
<b>c. Rawl Stud (<a href="http://www.rawl.com">www.rawl.com</a>)</b> <ul style="list-style-type: none"><li>- 1/2 inch diameter x 5 1/2 inches overall length</li><li>- Galvanized</li></ul> <b>Minimum embedment in concrete must be at least 4 inches</b>