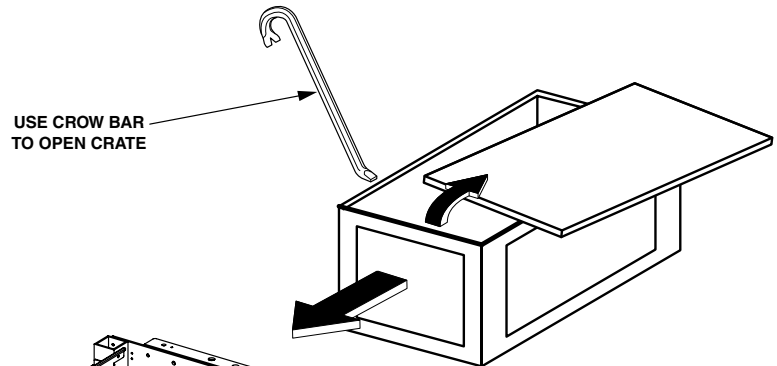


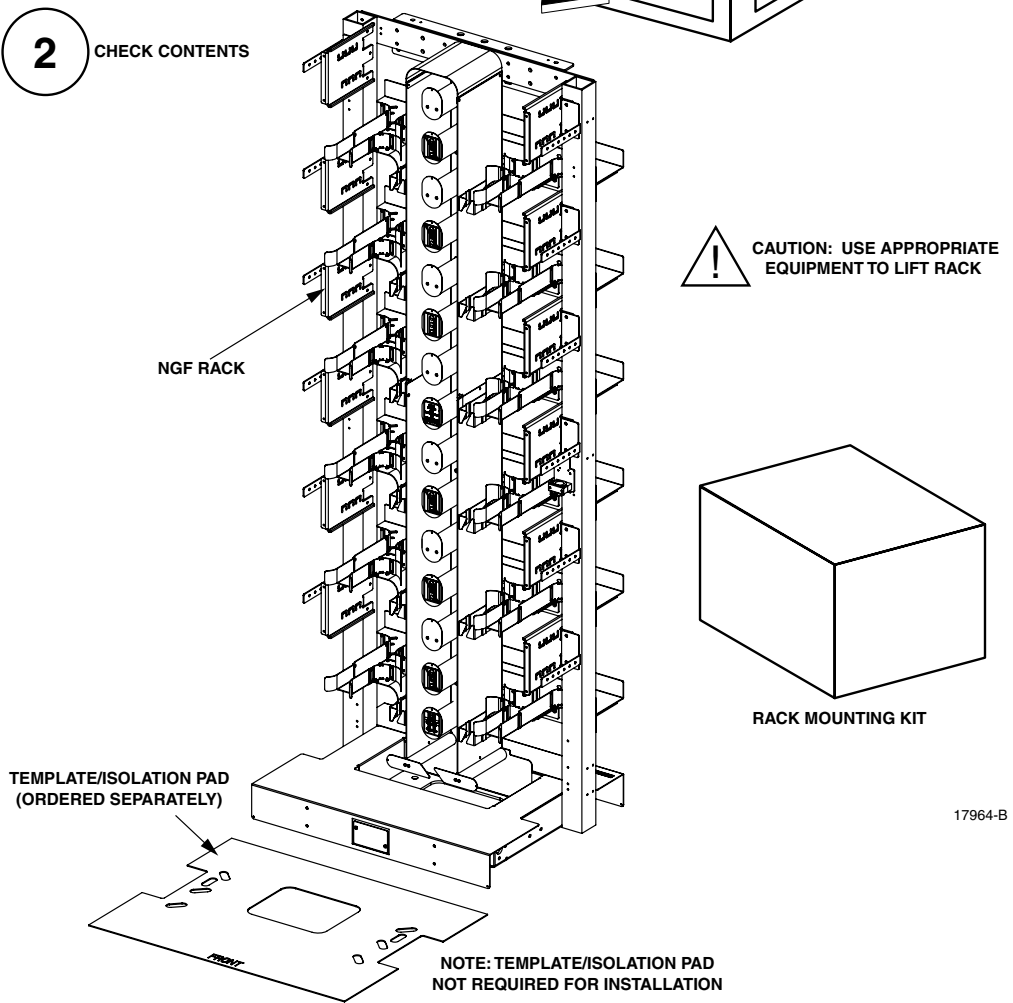


Next Generation Frame (NGF) (26- 30-inch) Installation Guide: Raised Floor/Concrete Floor

1 UNPACK RACK

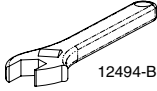
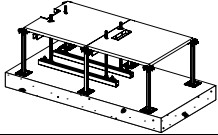
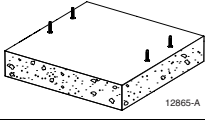


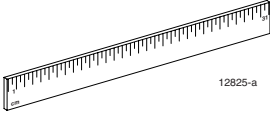
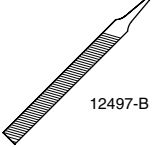
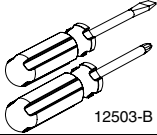


2 CHECK CONTENTS



17964-B

Table 1. Tools Required

TOOL	PICTURE	RAISED FLOOR	CONCRETE FLOOR
Adjustable Wrenches (2) 0.25- to 1-inch (8mm to 25.4mm)	 <p>12494-B</p>	 <p>✓</p>	 <p>12865-A</p> <p>✓</p>
Crow Bar	 <p>12495-B</p>	<p>✓</p>	<p>✓</p>
Drill: with Metal and Concrete Drill Bits 0.25- to 1.0-inches (8mm to 25.4mm)	 <p>12496-B</p>	<p>✓</p>	<p>✓</p>
Ruler	 <p>12825-a</p>	<p>✓</p>	<p>✓</p>
File	 <p>12497-B</p>	<p>✓</p>	
Flat Tip (–) and Phillip (+) Screwdrivers (#1, #2, and #3)	 <p>12503-B</p>	<p>✓</p>	<p>✓</p>

continued

Table 1. Tools Required, continued

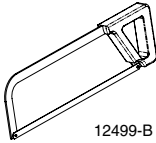
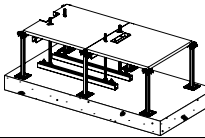
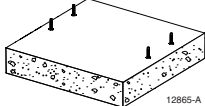
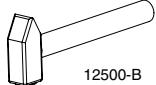
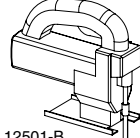
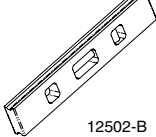
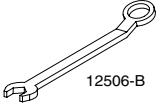
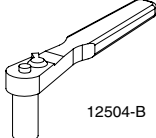
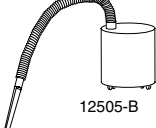
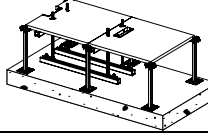
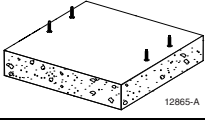
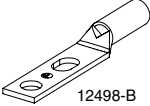
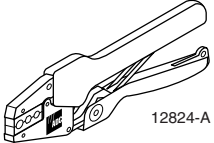
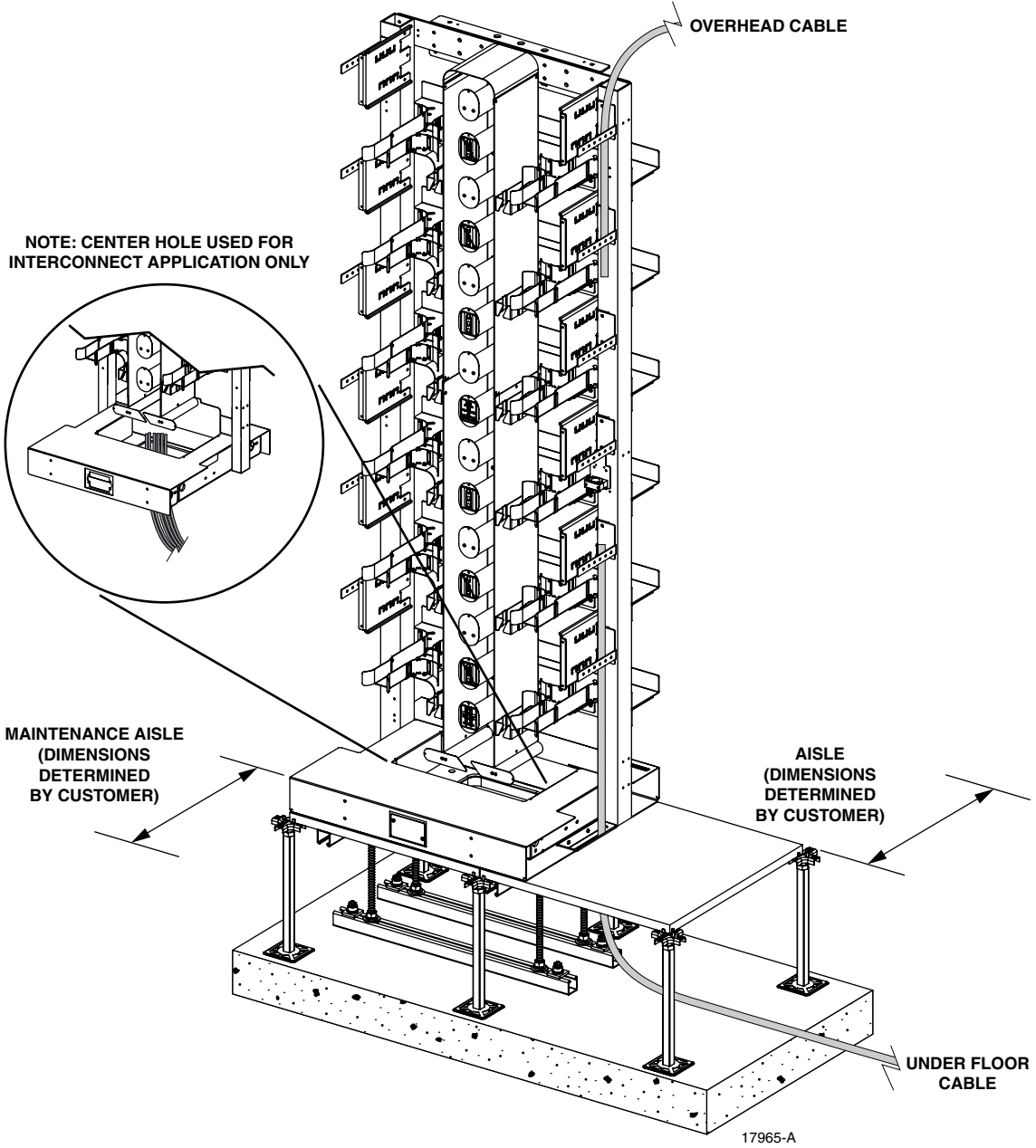
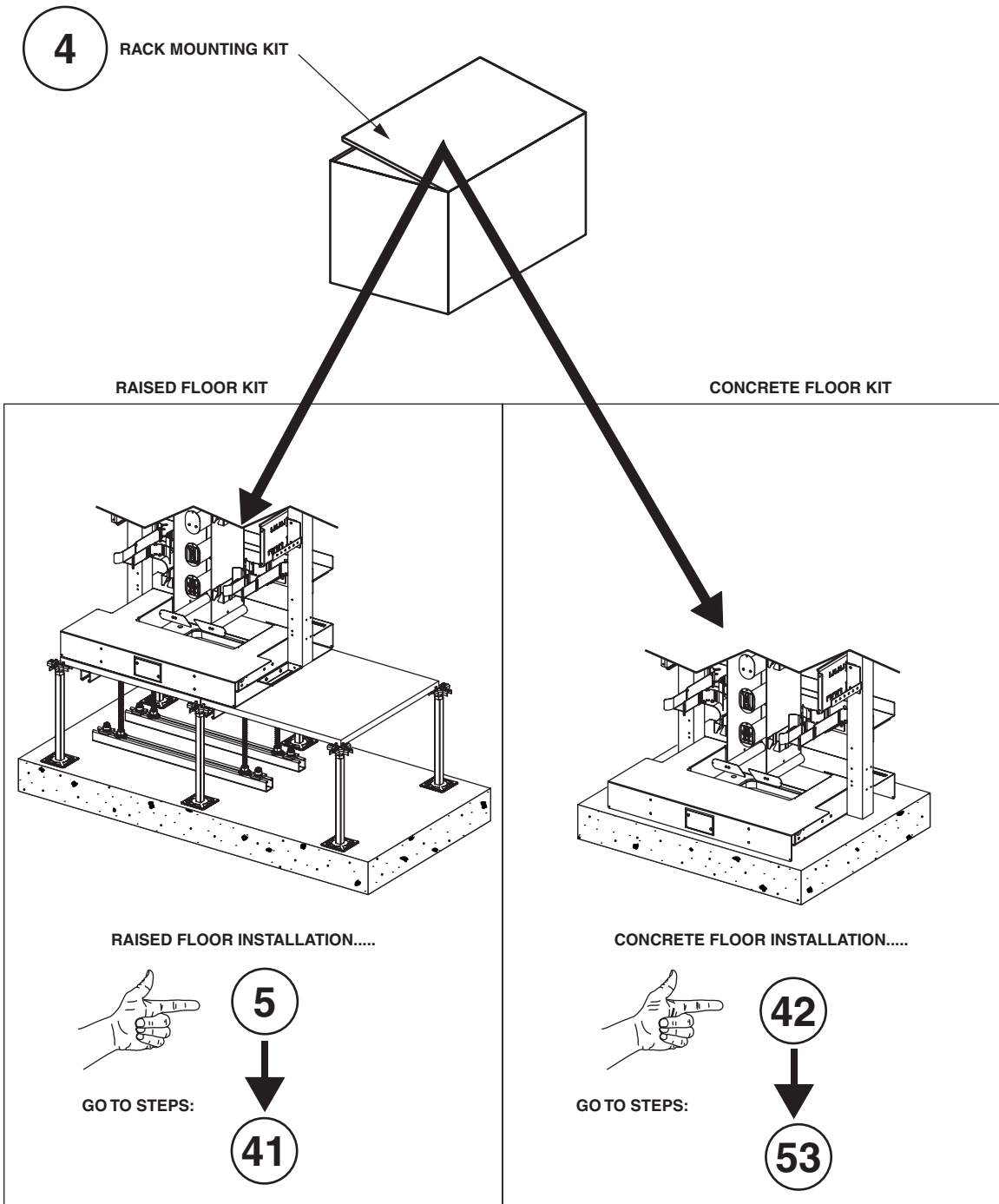
TOOLS REQUIRED (CONTINUED)	PICTURE	RAISED FLOOR	CONCRETE FLOOR
Hacksaw	 <p>12499-B</p>	 <p>✓</p>	 <p>12865-A</p>
Hammer	 <p>12500-B</p>	<p>✓</p>	<p>✓</p>
Jigsaw: Blades for Cutting Floor Tile and Metal	 <p>12501-B</p>	<p>✓</p>	
Level	 <p>12502-B</p>	<p>✓</p>	
Set of Open End/Box Wrenches 0.25- to 1.0-inches (8mm to 25.4mm)	 <p>12506-B</p>	<p>✓</p>	<p>✓</p>
Set of Sockets 0.25- to 1.0-inches (8mm to 25.4mm)	 <p>12504-B</p>	<p>✓</p>	<p>✓</p>
Vacuum	 <p>12505-B</p>	<p>✓</p>	<p>✓</p>

Table 2. Additional Materials Required

ITEM	DESCRIPTION		
Ground Cable 6 AWG (4.1mm)	Green with Yellow Stripe	✓	✓
Ground Lug	 <p style="text-align: center;">12498-B</p>	✓	✓
Crimping Tool	 <p style="text-align: center;">12824-A</p>	✓	✓

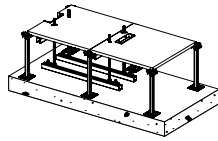
3 DETERMINE RACK LOCATION





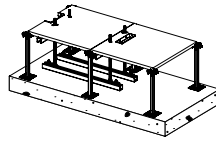
17966-A

RAISED FLOOR INSTALLATION



<p style="text-align: center;">5</p> <p>UNPACK ZONE 2/ZONE 4 RAISED FLOOR KIT</p>	
<p>THREADED ROD (4) 5/8"-11 x 30" LONG</p>	
<p>UNISTRUT 10 FEET LONG</p>	
<p>UNISTRUT NUT WITH SPRING (4)</p>	
<p>EXPANDING ANCHOR BOLT (4) (PROVIDED WITH RACK)</p>	
<p>HEX NUT HEAVY (12) 5/8"- x 11</p>	
<p>SPLIT LOCK WASHER (12) 5/8"</p>	
<p>FLAT WASHER (12) 5/8"</p>	

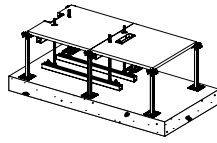
RAISED FLOOR INSTALLATION



<p style="text-align: center;">5</p> <p>UNPACK ZONE 2/ZONE 4 RAISED FLOOR KIT (CONTINUED)</p>	
<p>HOLD DOWN PLATE (2) (PROVIDED WITH RACK)</p>	
<p>PLASTIC SHOULDER WASHER (4)</p>	
<p>EDGE PROTECTOR (1) 72"</p>	
<p>ANCHOR PLATE (4) (PROVIDED WITH RACK)</p>	

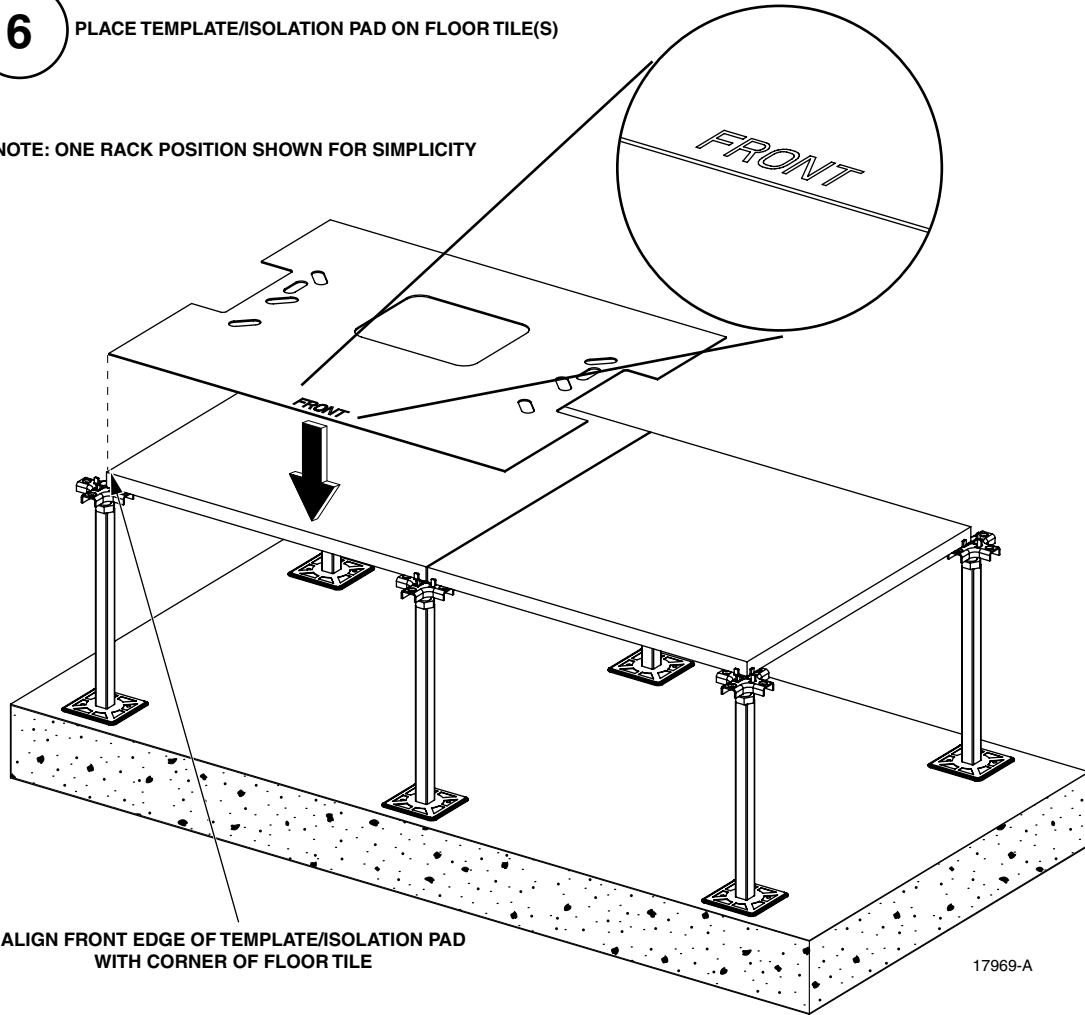
17968-C

RAISED FLOOR INSTALLATION



6 PLACE TEMPLATE/ISOLATION PAD ON FLOOR TILE(S)

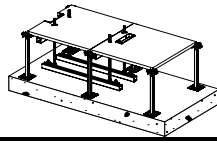
NOTE: ONE RACK POSITION SHOWN FOR SIMPLICITY



ALIGN FRONT EDGE OF TEMPLATE/ISOLATION PAD WITH CORNER OF FLOOR TILE

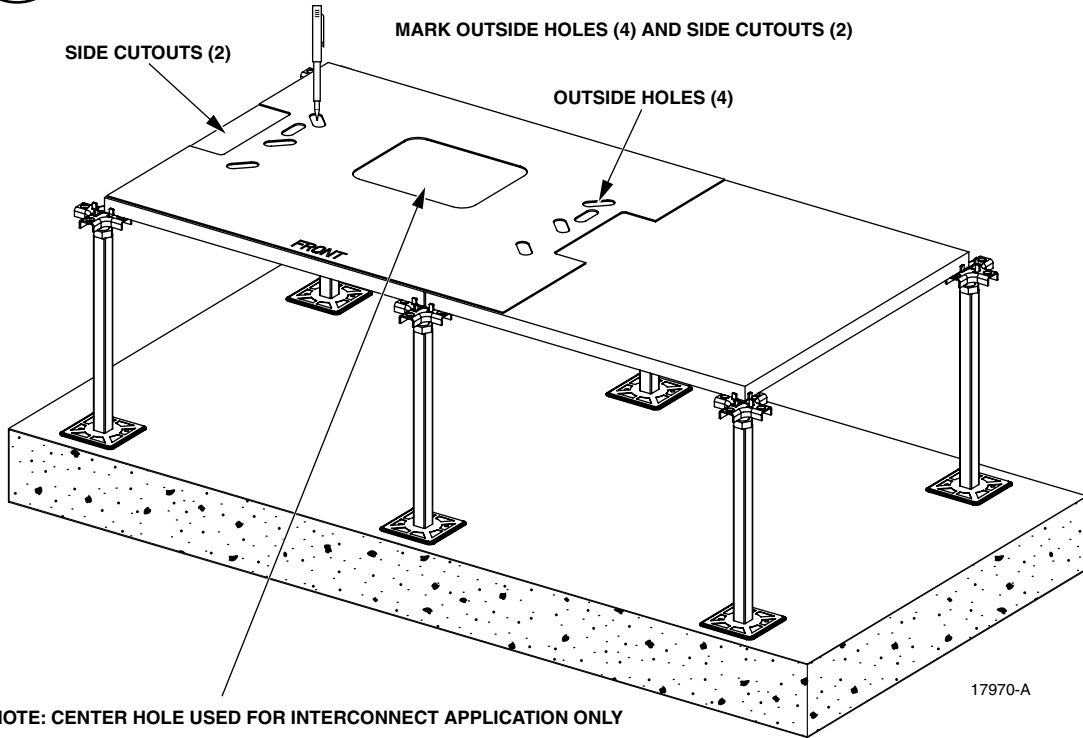
17969-A

RAISED FLOOR INSTALLATION

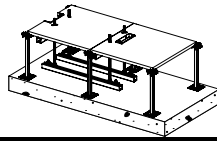


7

MARK TILE

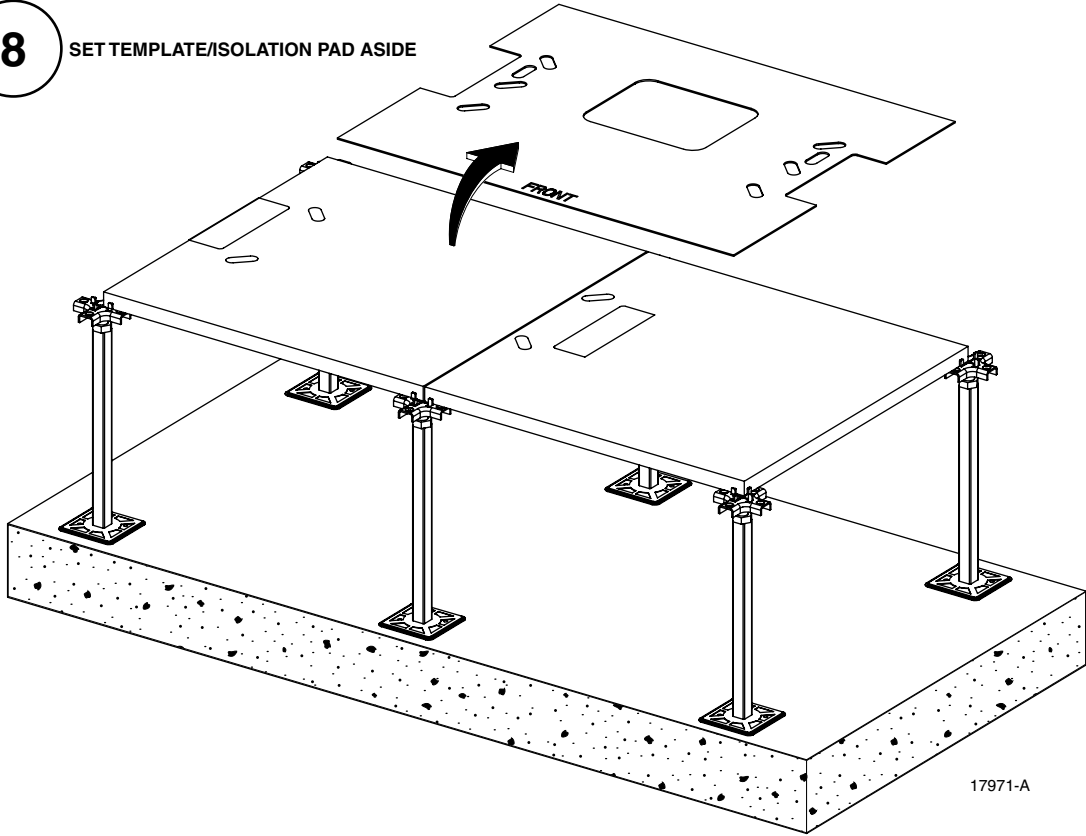


RAISED FLOOR INSTALLATION



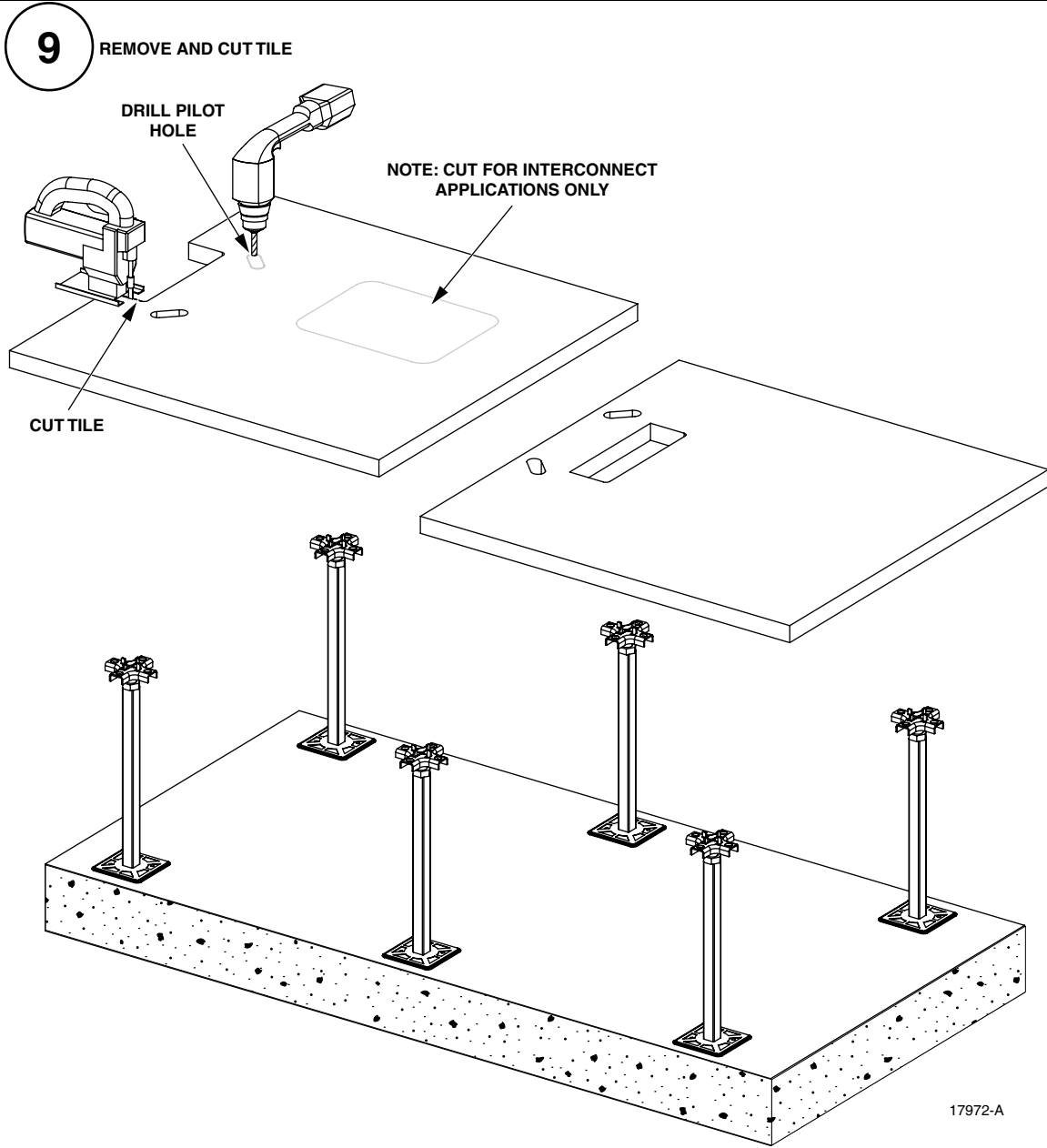
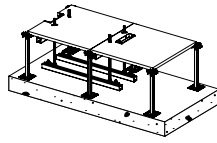
8

SET TEMPLATE/ISOLATION PAD ASIDE

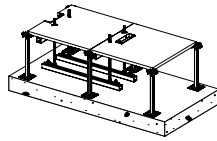


17971-A

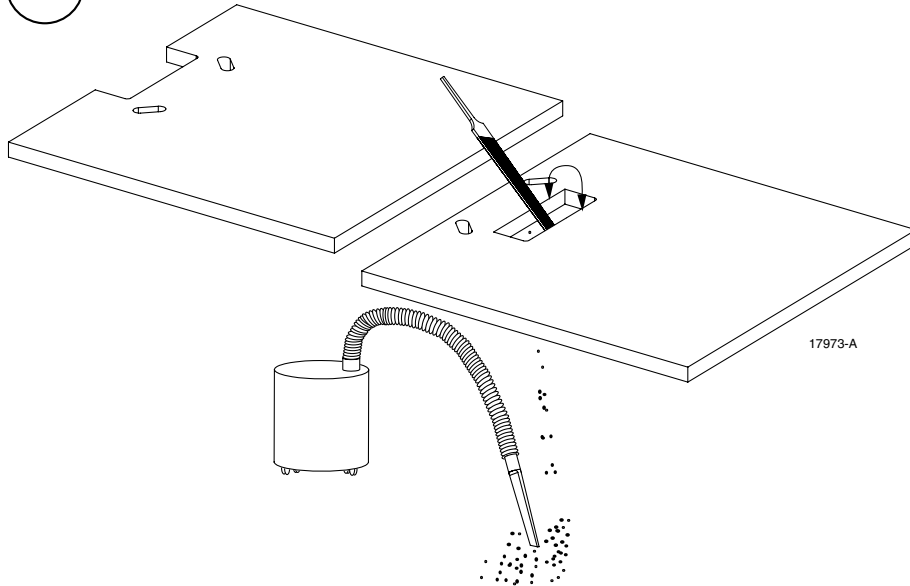
RAISED FLOOR INSTALLATION



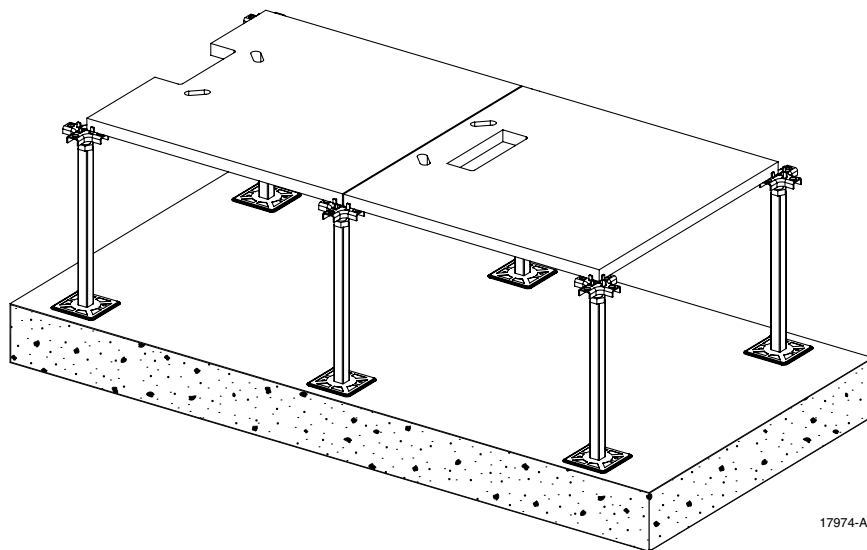
RAISED FLOOR INSTALLATION



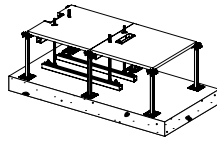
10 FILE ALL BOTTOM AND TOP EDGES



11 SET FLOOR TILES ON PEDESTALS



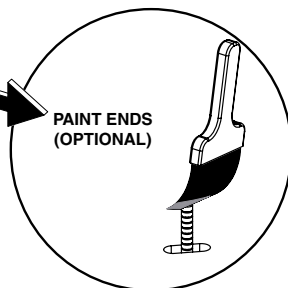
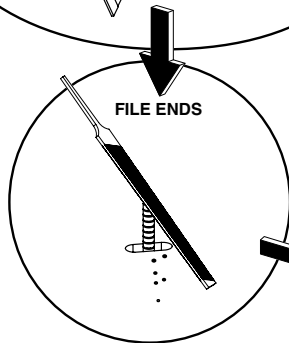
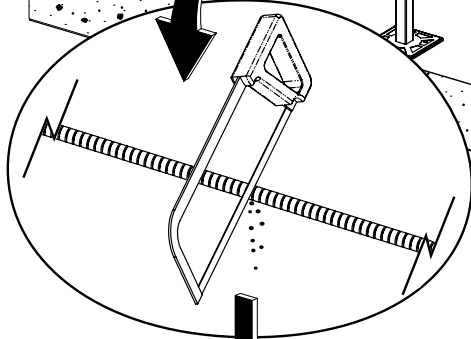
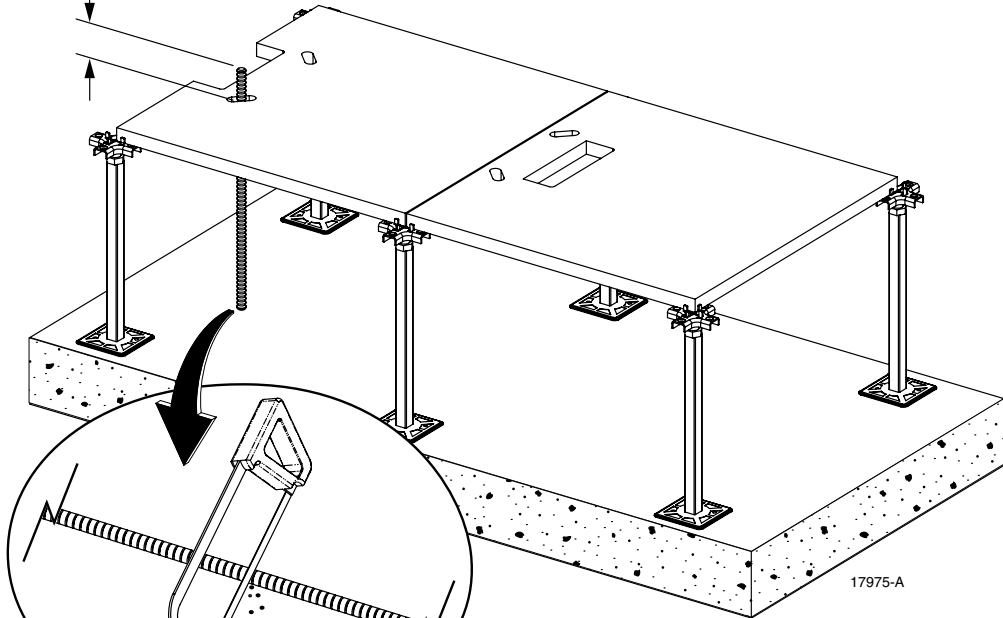
RAISED FLOOR INSTALLATION



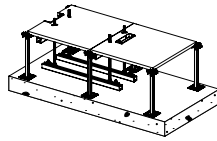
12 CUT THREADED ROD TO FLOOR HEIGHT $+1\text{-}5/8"$ ($\pm 3/8"$)

$1\text{-}5/8"$
($\pm 3/8"$)

NOTE: MEASURE FROM CONCRETE TO $1\text{-}5/8"$ ($\pm 3/8"$) ABOVE FLOOR TILE

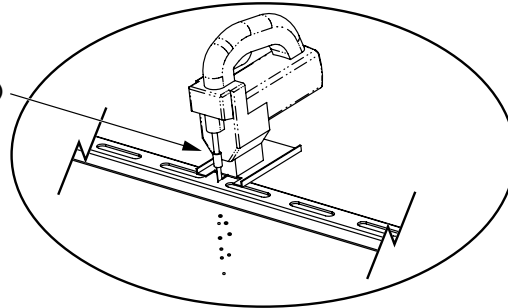


RAISED FLOOR INSTALLATION



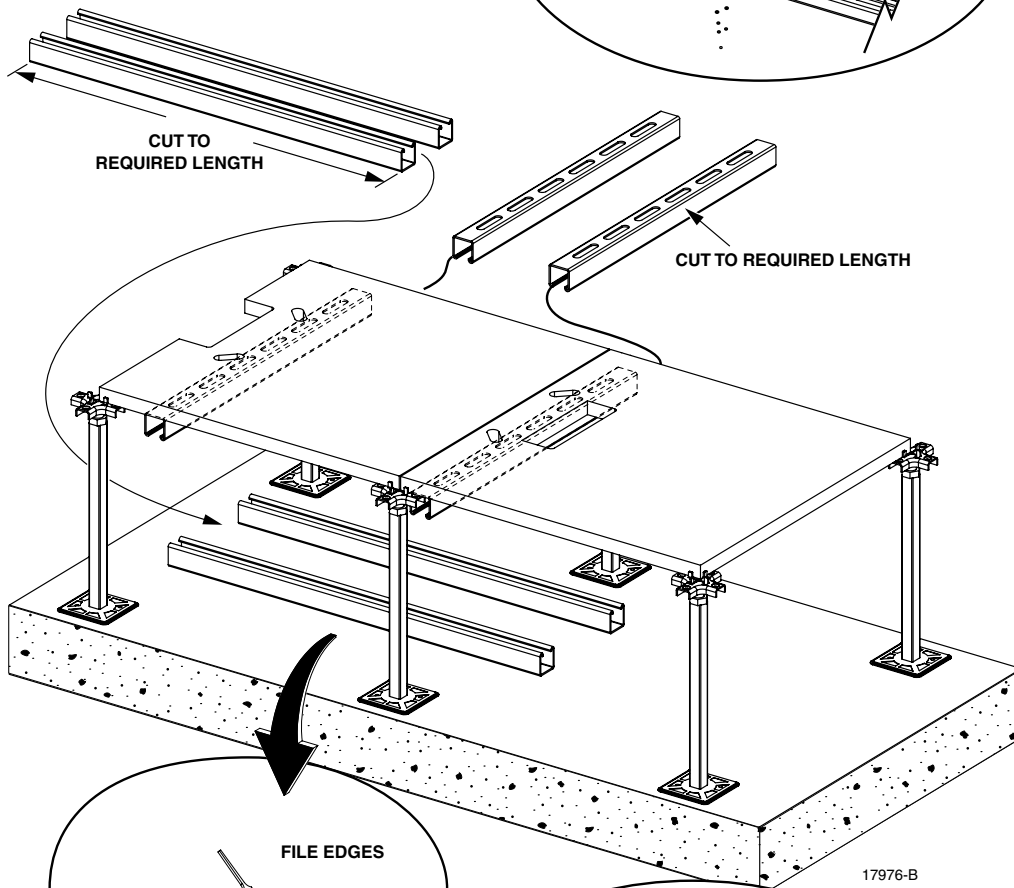
13 CUT UNISTRUT TO REQUIRED LENGTH

CUT UNISTRUT (4 PIECES)



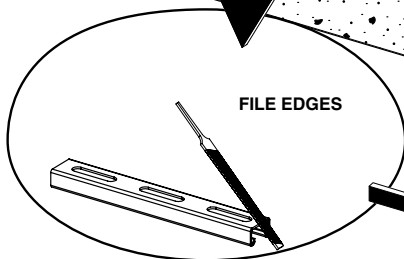
CUT TO
REQUIRED LENGTH

CUT TO
REQUIRED LENGTH

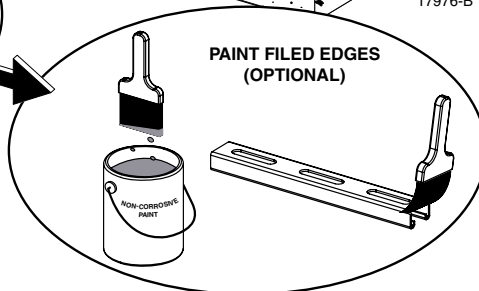


17976-B

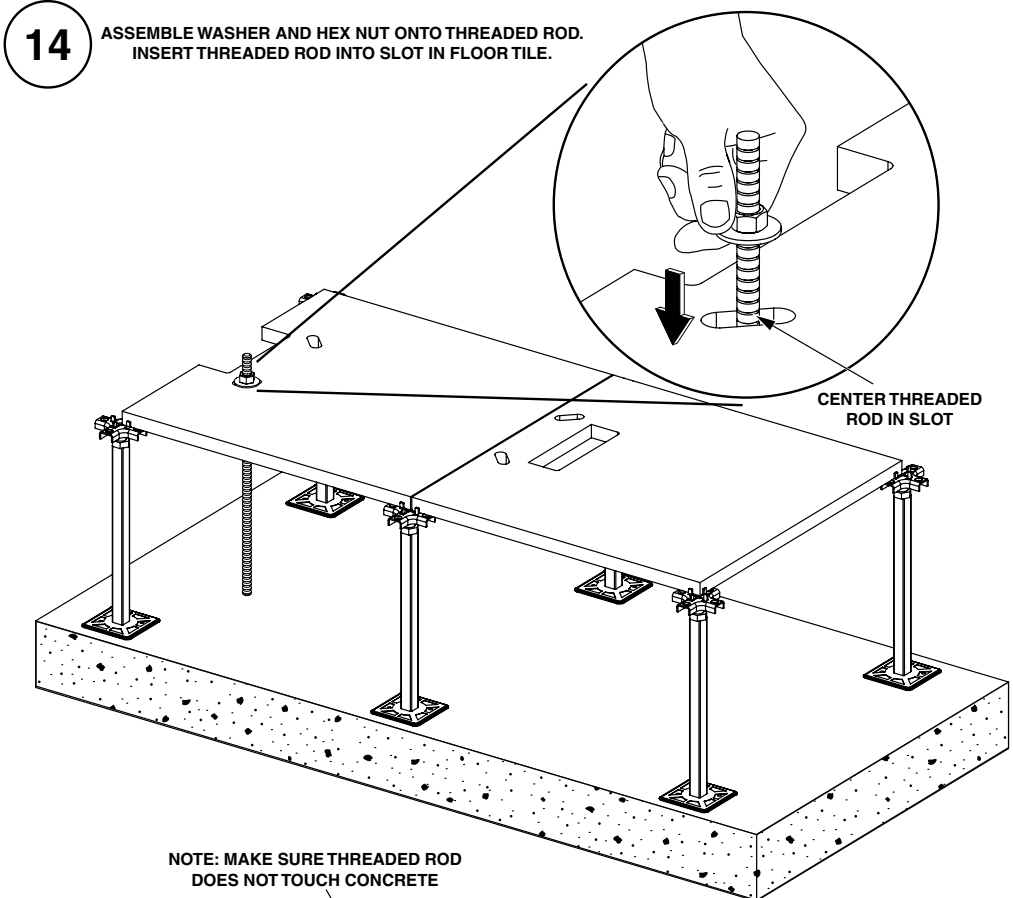
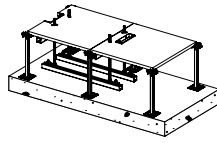
FILE EDGES



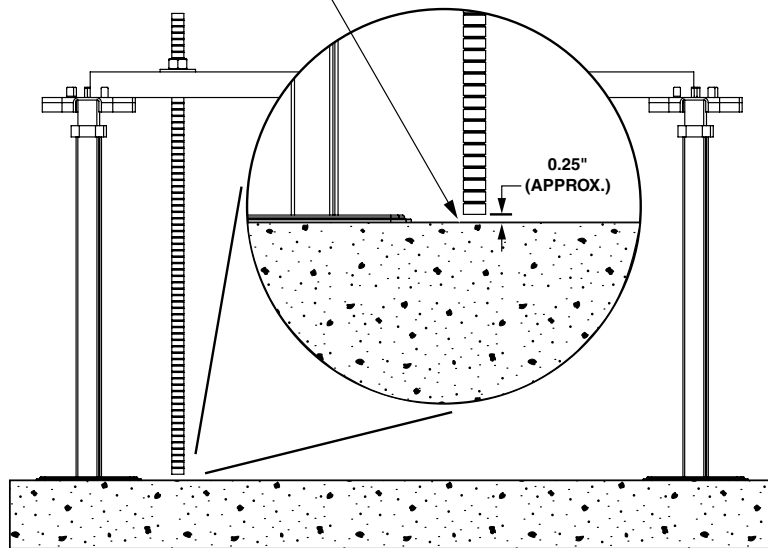
PAINT FILED EDGES
(OPTIONAL)



RAISED FLOOR INSTALLATION

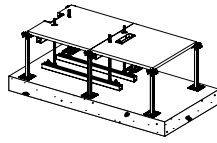


NOTE: MAKE SURE THREADED ROD DOES NOT TOUCH CONCRETE

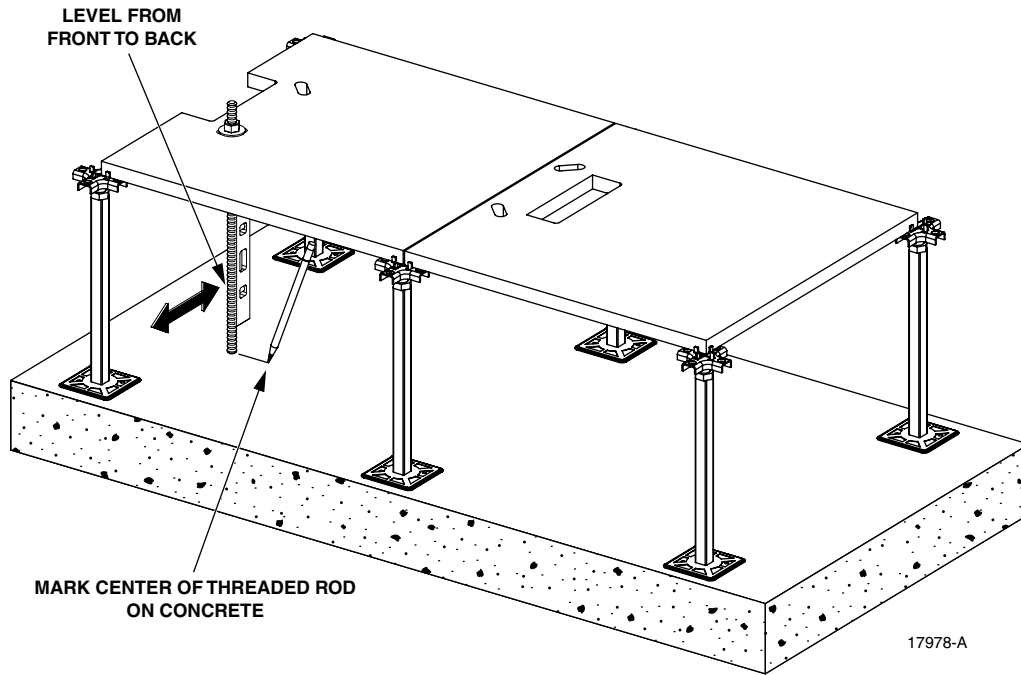


17977-A

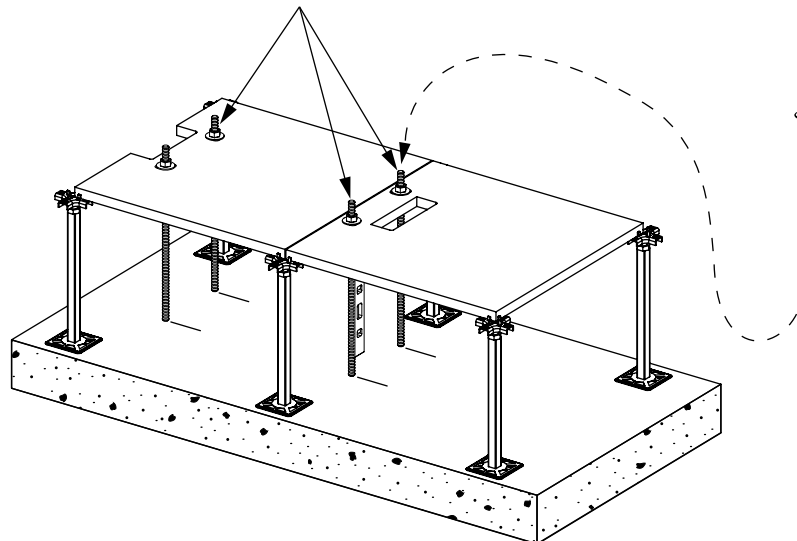
RAISED FLOOR INSTALLATION



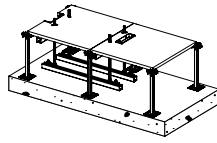
15 LEVEL THREADED RODS FROM FRONT TO BACK AND MARK CONCRETE



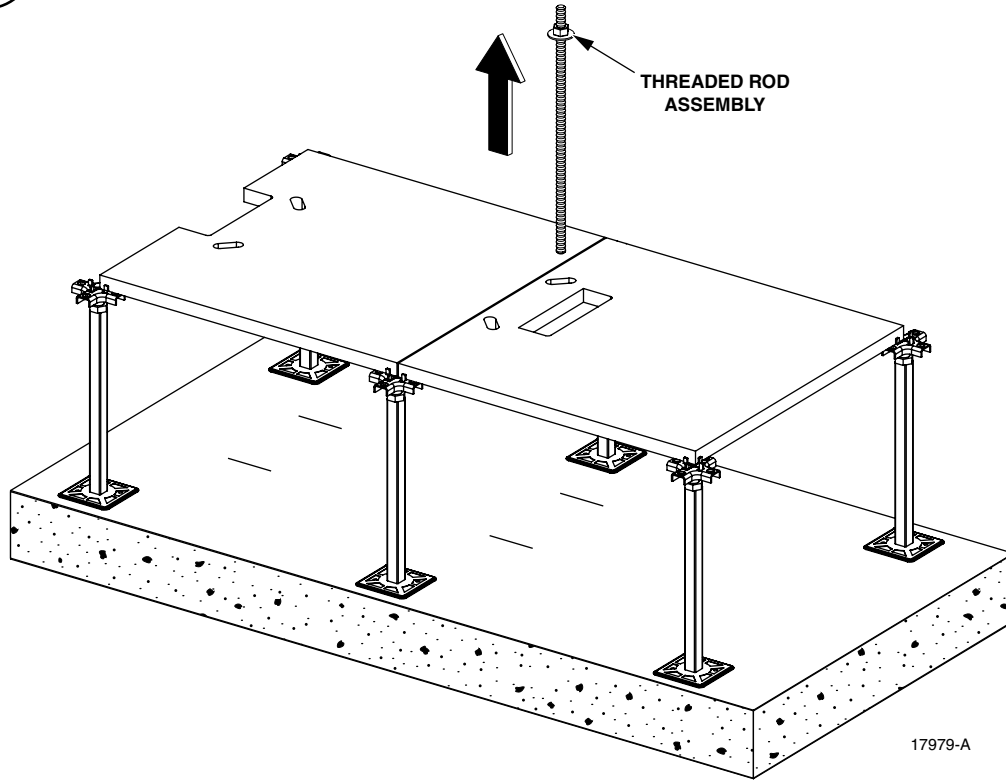
REPEAT STEPS 14 AND 15 USING SAME THREADED ROD FOR REMAINING THREE SLOTS



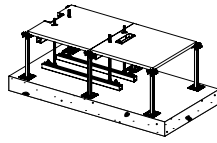
RAISED FLOOR INSTALLATION



16 REMOVE THREADED ROD ASSEMBLY

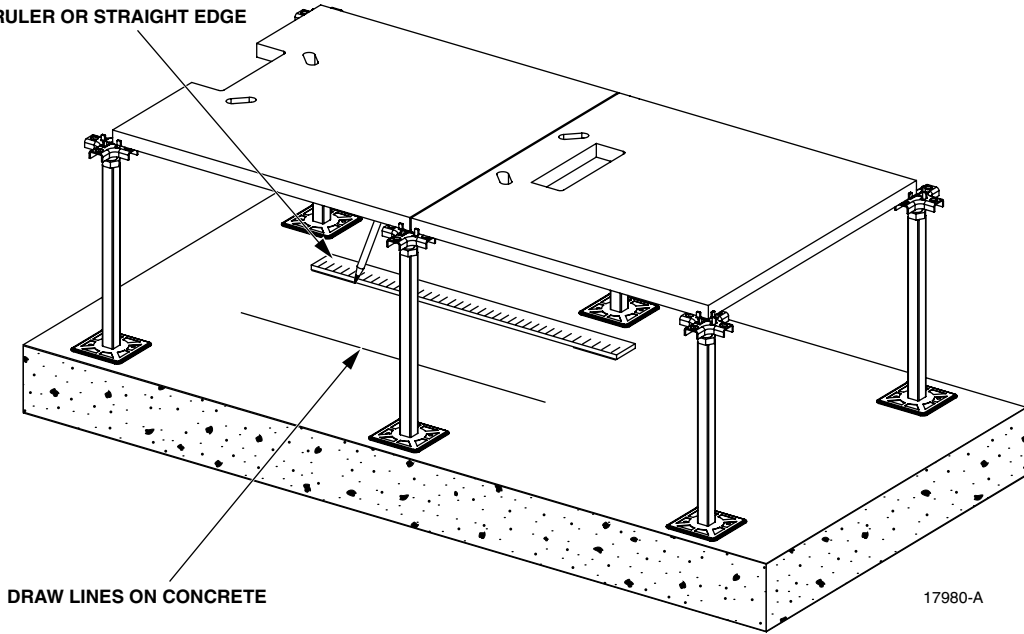


RAISED FLOOR INSTALLATION



17 USE RULER OR STRAIGHT EDGE TO MARK CONCRETE

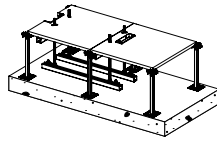
RULER OR STRAIGHT EDGE



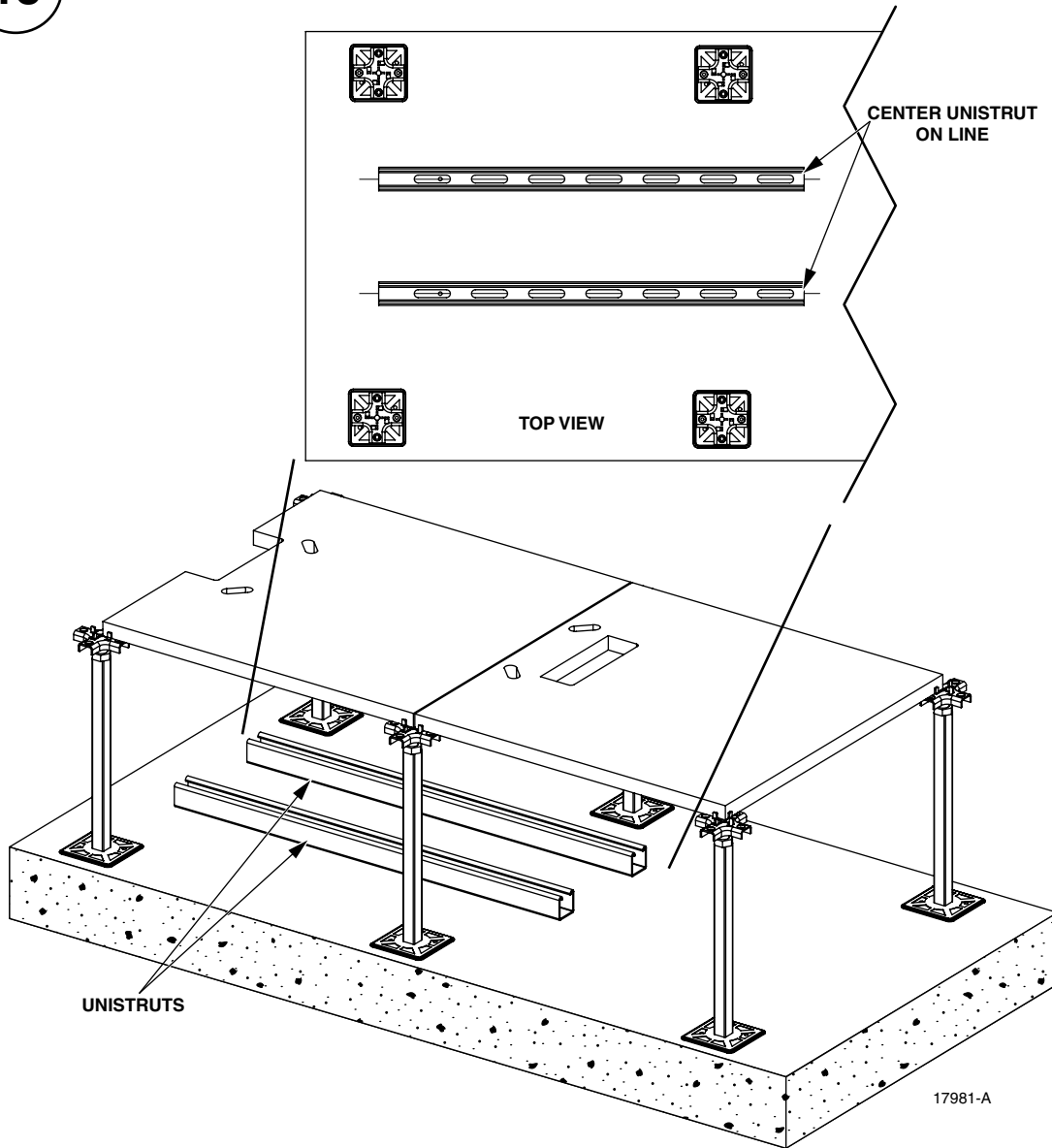
DRAW LINES ON CONCRETE

17980-A

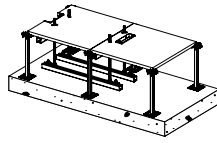
RAISED FLOOR INSTALLATION



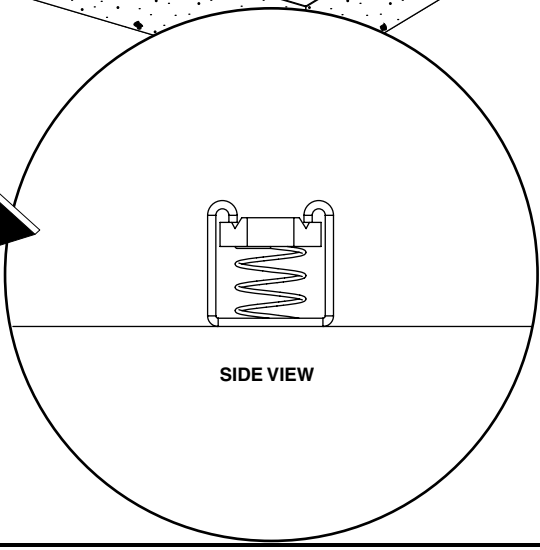
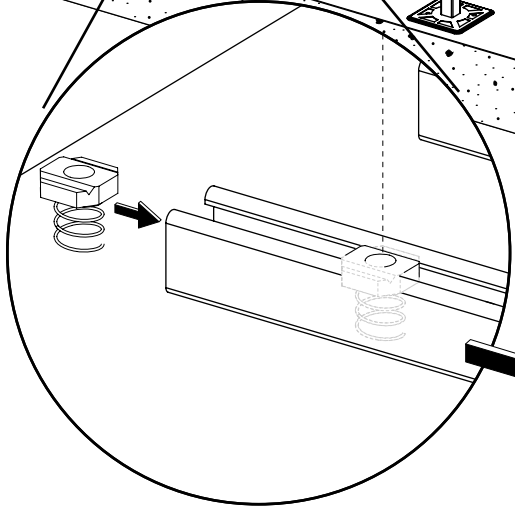
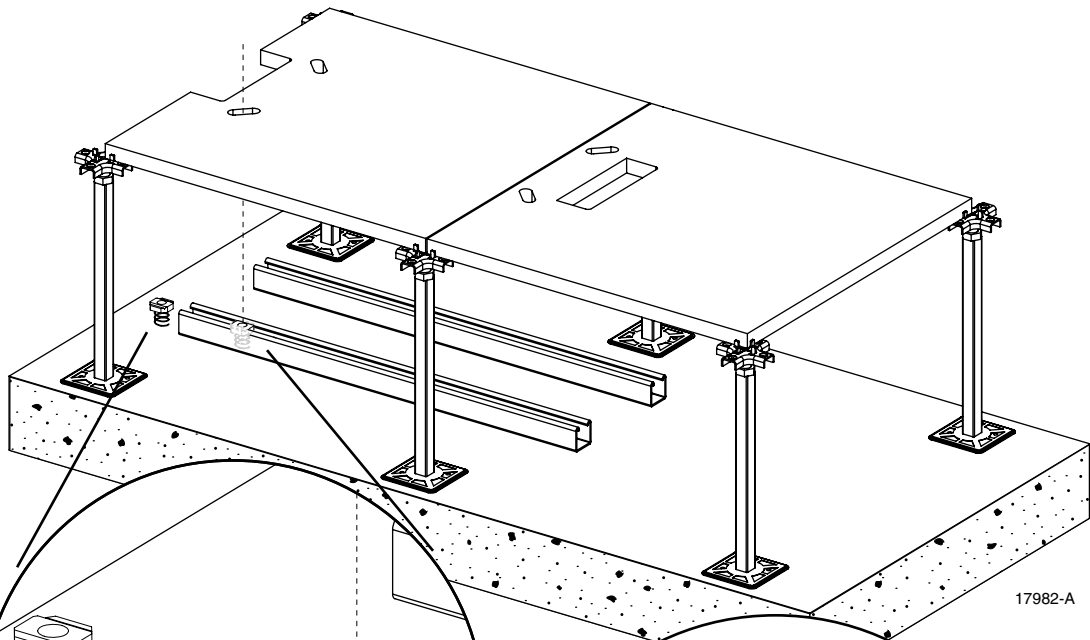
18 CENTER UNISTRUTS ON LINES



RAISED FLOOR INSTALLATION



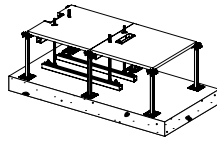
19 INSTALL SPRING NUT IN UNISTRUT



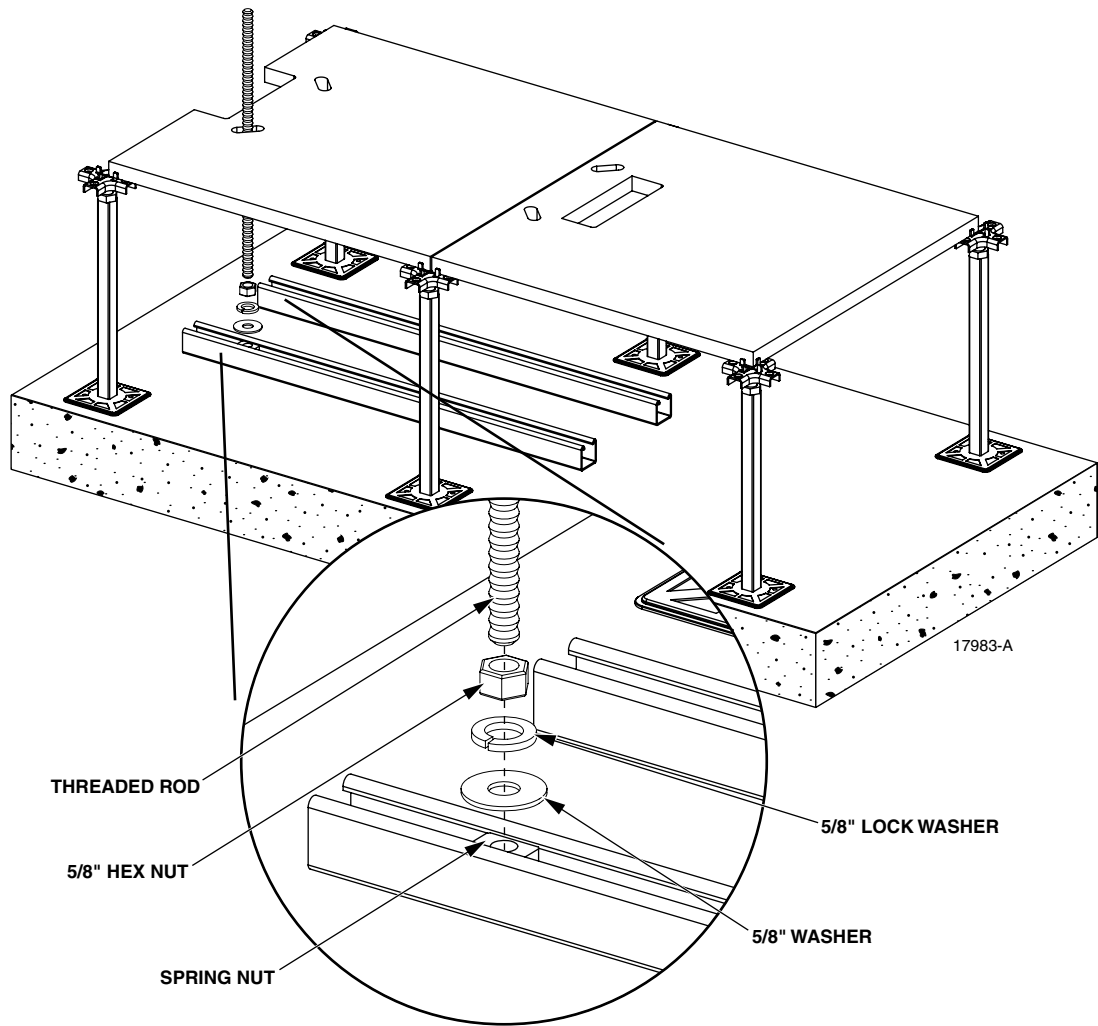
SLIDE SPRING NUT INTO END OF UNISTRUT.
ALIGN SPRING NUT APPROXIMATELY WITH
CENTER OF SLOT IN TILE, AS SHOWN.

17982-A

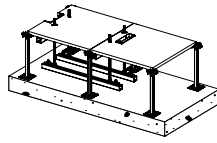
RAISED FLOOR INSTALLATION



20 ASSEMBLE 5/8" HEX NUT, 5/8" LOCK WASHER, AND 5/8" WASHER ONTO THREADED ROD



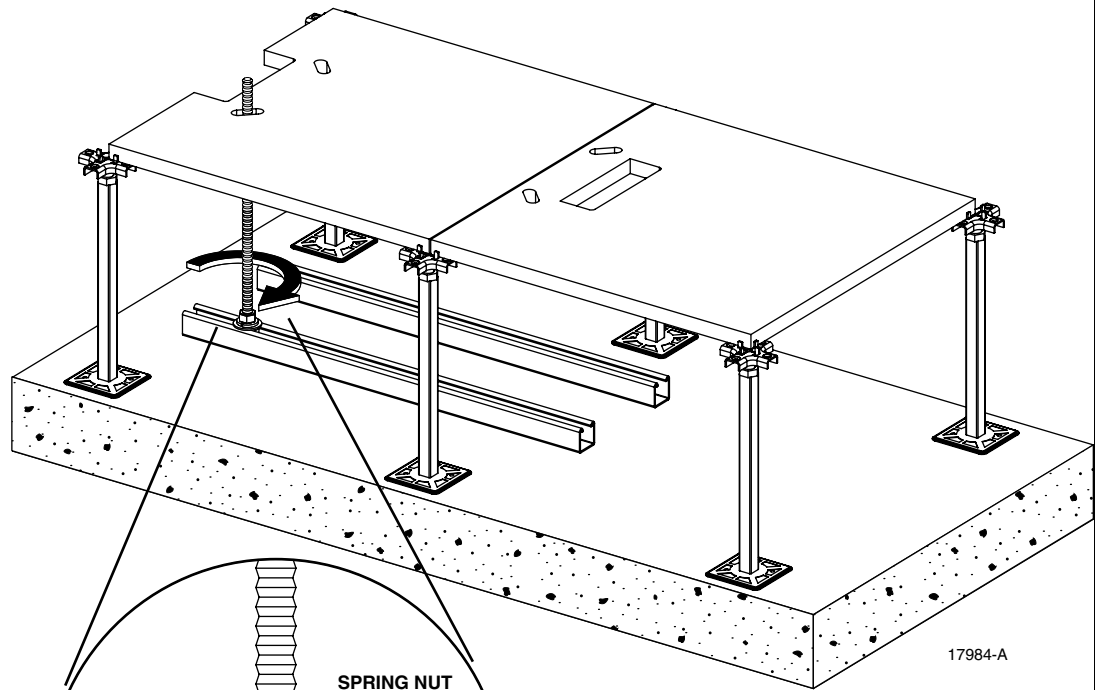
RAISED FLOOR INSTALLATION



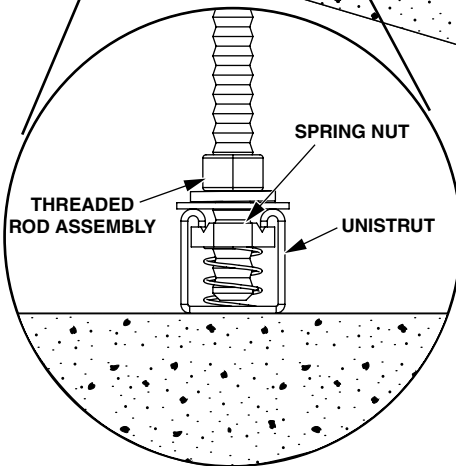
21

INSTALL THREADED ROD ASSEMBLY INTO SPRING NUT

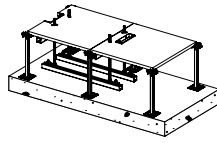
**NOTE: THREADED ROD ASSEMBLY CONSISTS OF THE FOLLOWING PARTS:
THREADED ROD, 5/8" WASHER, 5/8" LOCK WASHER, AND 5/8" HEX NUT**



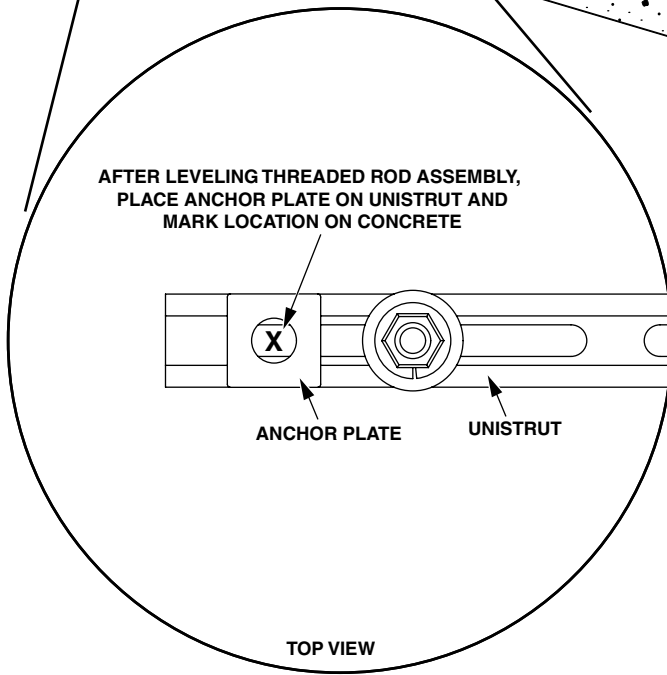
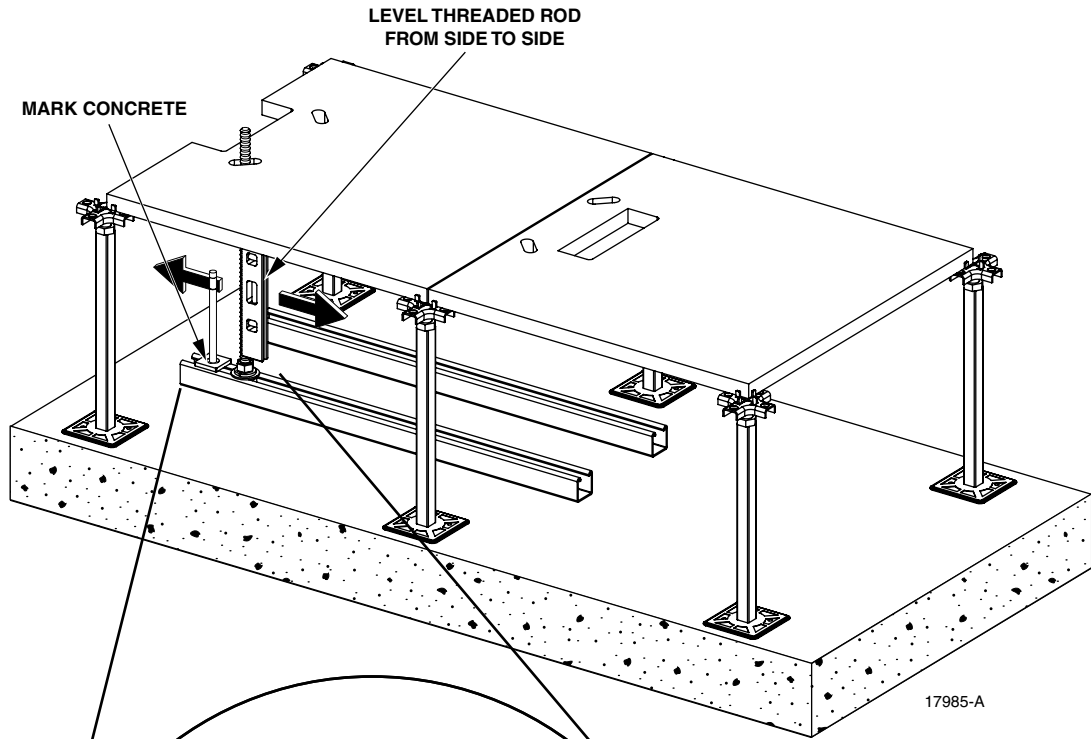
17984-A



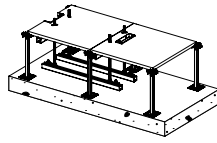
RAISED FLOOR INSTALLATION



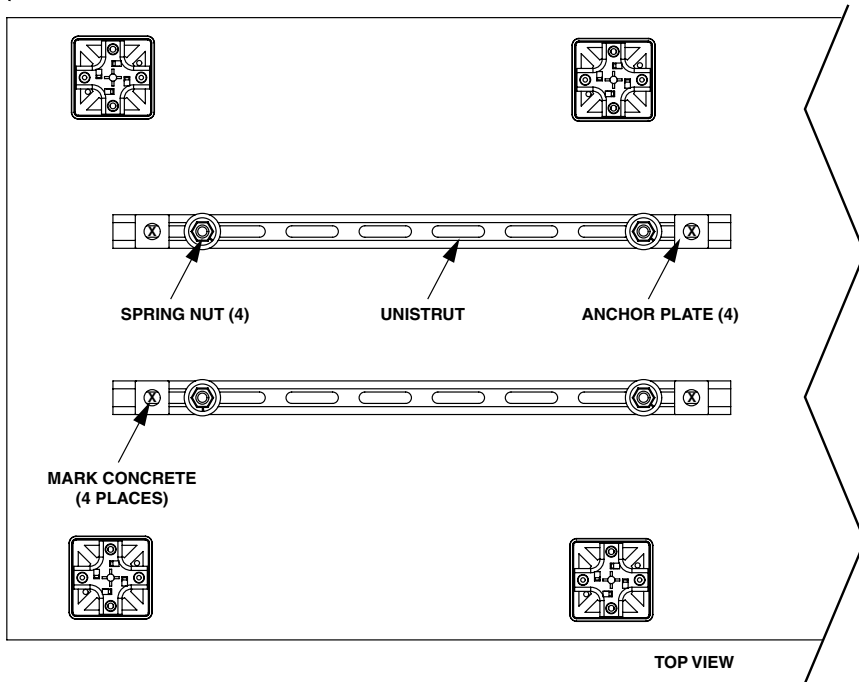
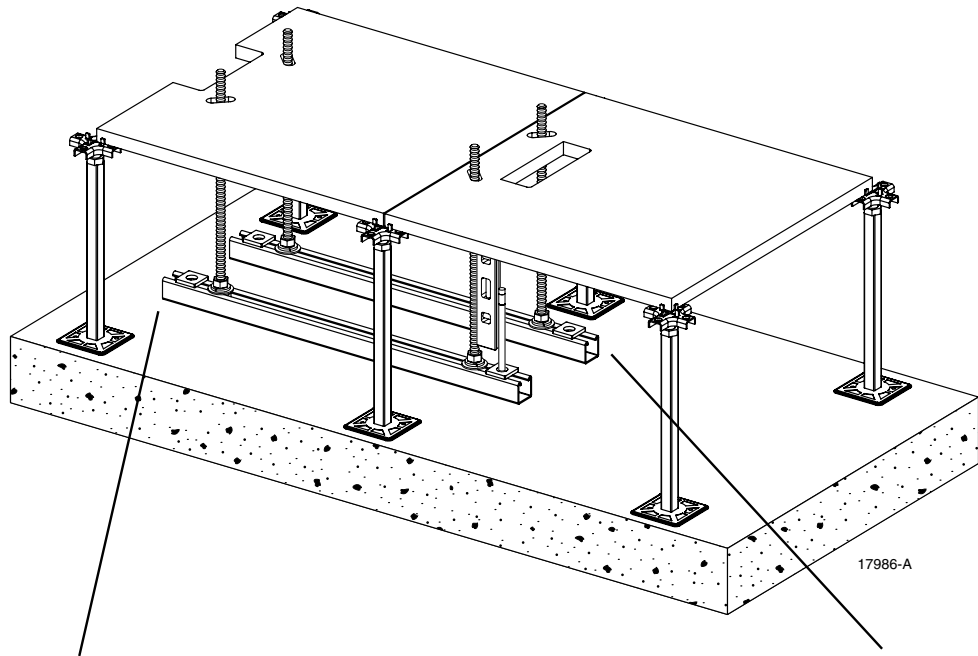
22 LEVEL THE THREADED ROD AND MARK THE ANCHOR PLATE LOCATION ON CONCRETE



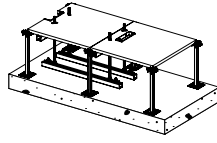
RAISED FLOOR INSTALLATION



23 REPEAT STEPS 19 THROUGH 22 FOR REMAINING THREADED RODS

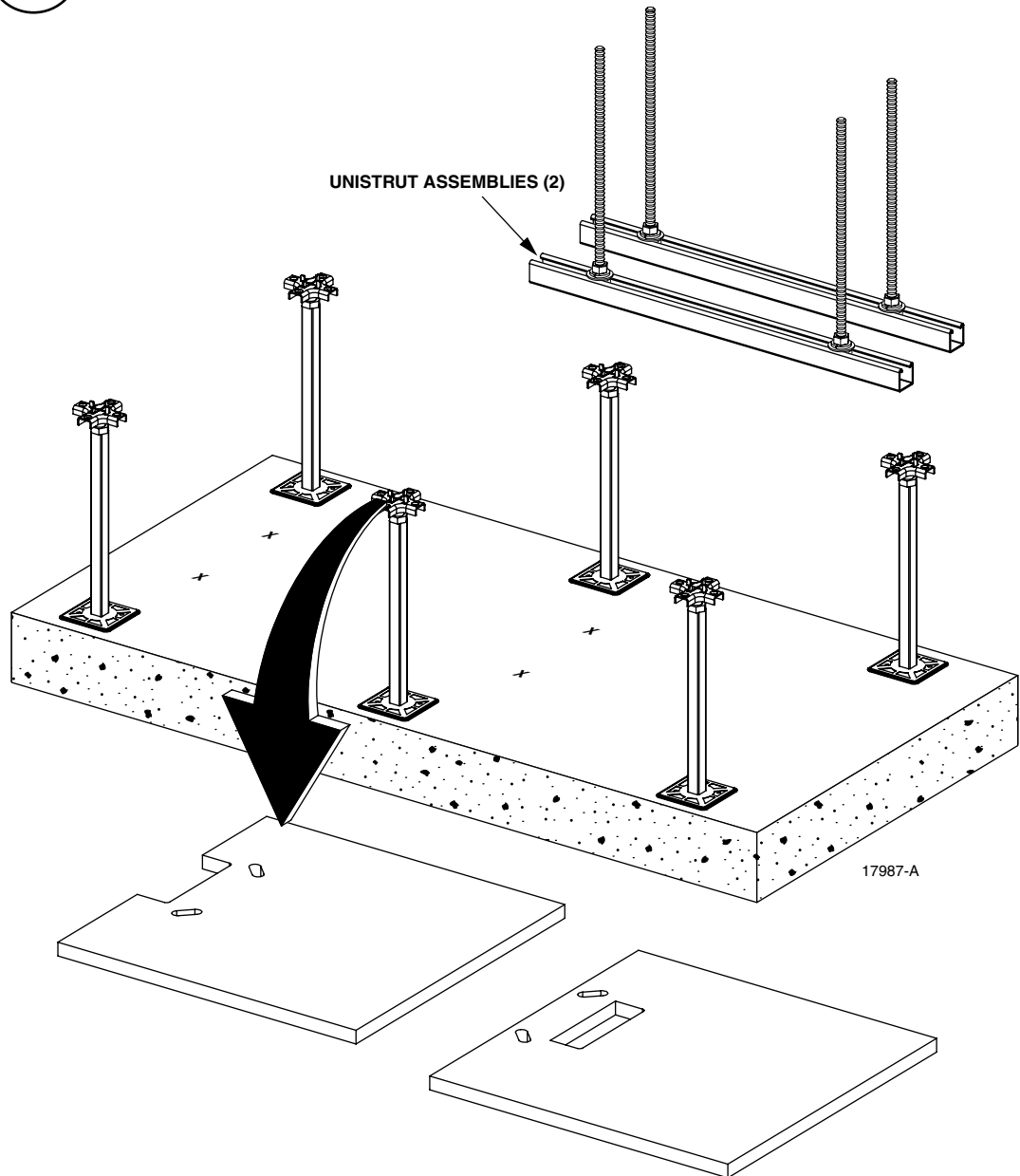


RAISED FLOOR INSTALLATION

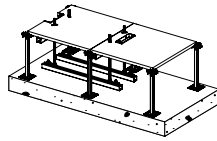


24

SET FLOOR TILES AND UNISTRUT ASSEMBLIES ASIDE

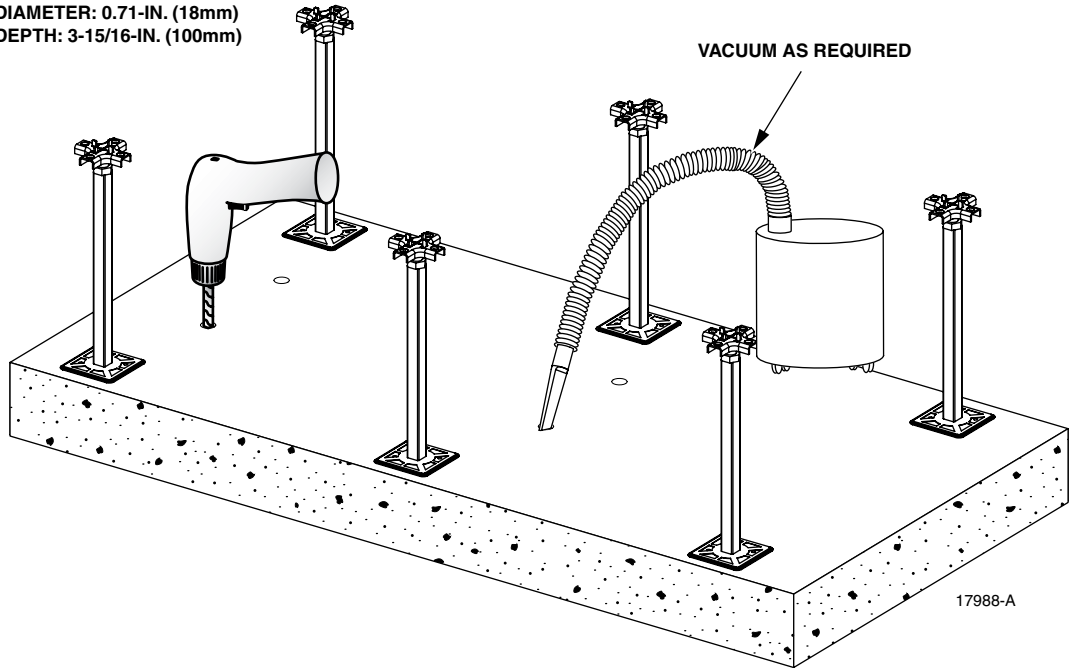


RAISED FLOOR INSTALLATION

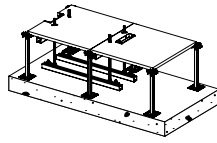


25 DRILL HOLES (4)

HOLE DIMENSIONS:
DIAMETER: 0.71-IN. (18mm)
DEPTH: 3-15/16-IN. (100mm)

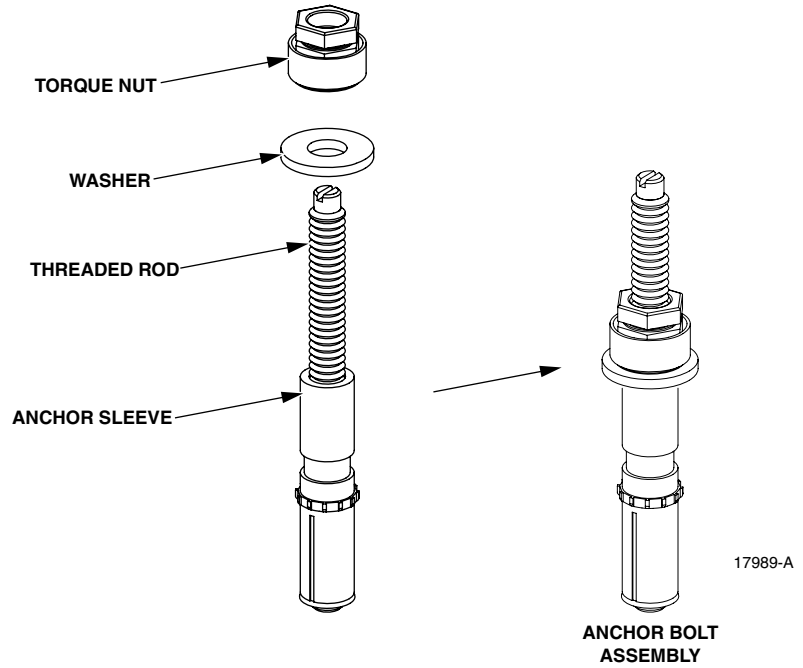


RAISED FLOOR INSTALLATION

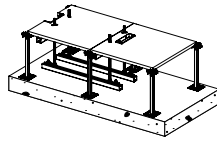


26

THREAD THE WASHER AND TORQUE NUT ONTO THE THEADED ROD.
THE WASHER SHOULD TOUCH THE TOP OF THE ANCHOR SLEEVE.

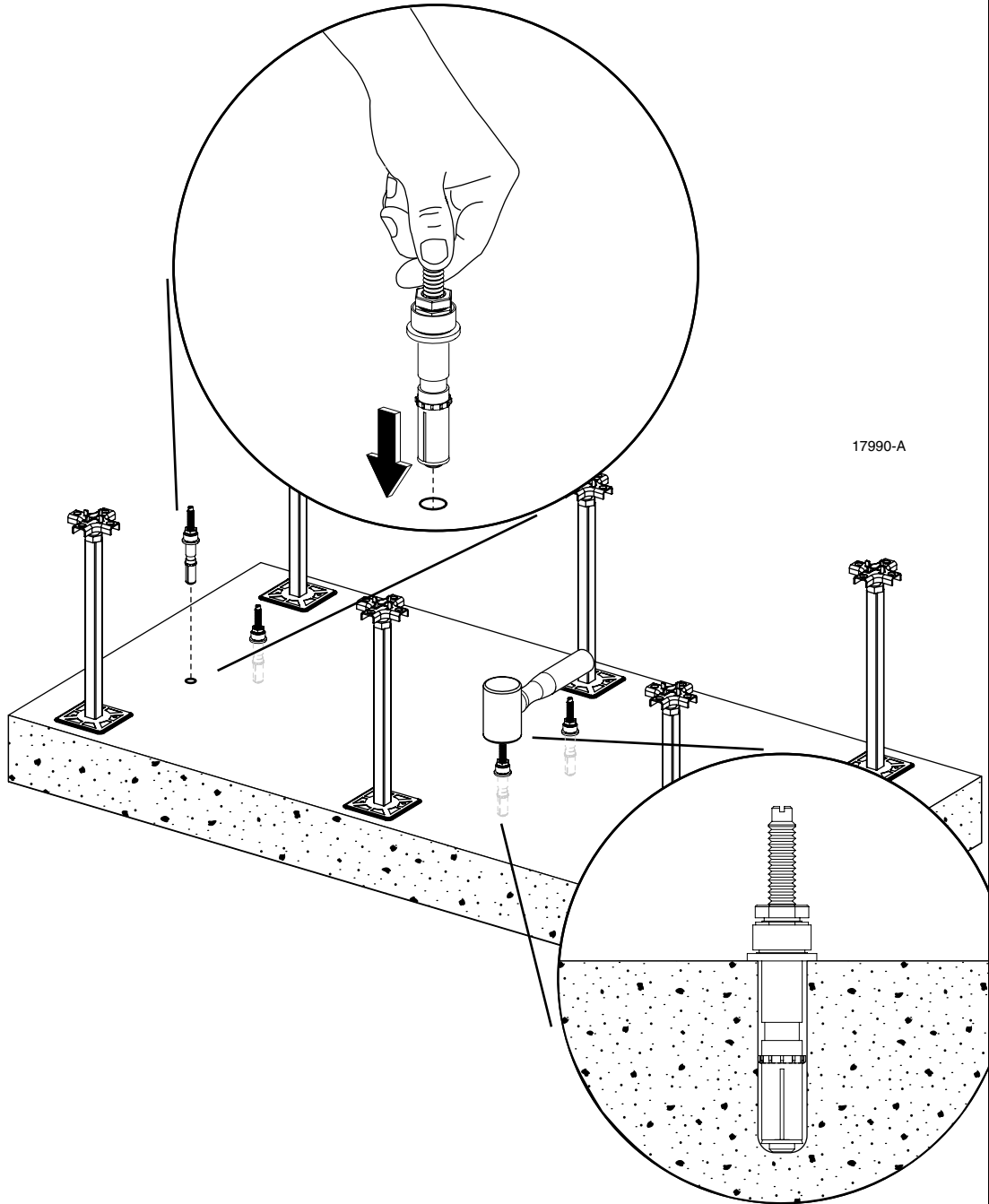


RAISED FLOOR INSTALLATION



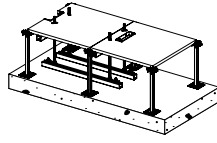
27

**INSERT THE ANCHOR BOLT ASSEMBLY INTO THE HOLE.
TAP THE ANCHOR BOLT ASSEMBLY WITH A HAMMER UNTIL THE WASHER TOUCHES THE CONCRETE.**

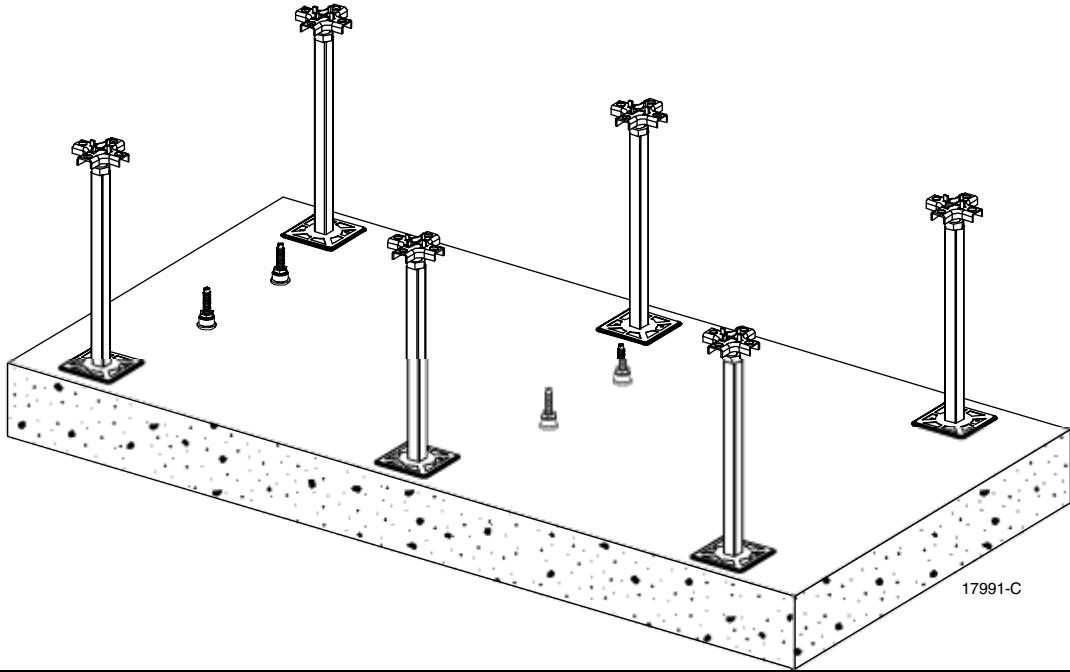


17990-A

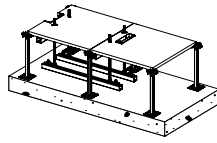
RAISED FLOOR INSTALLATION



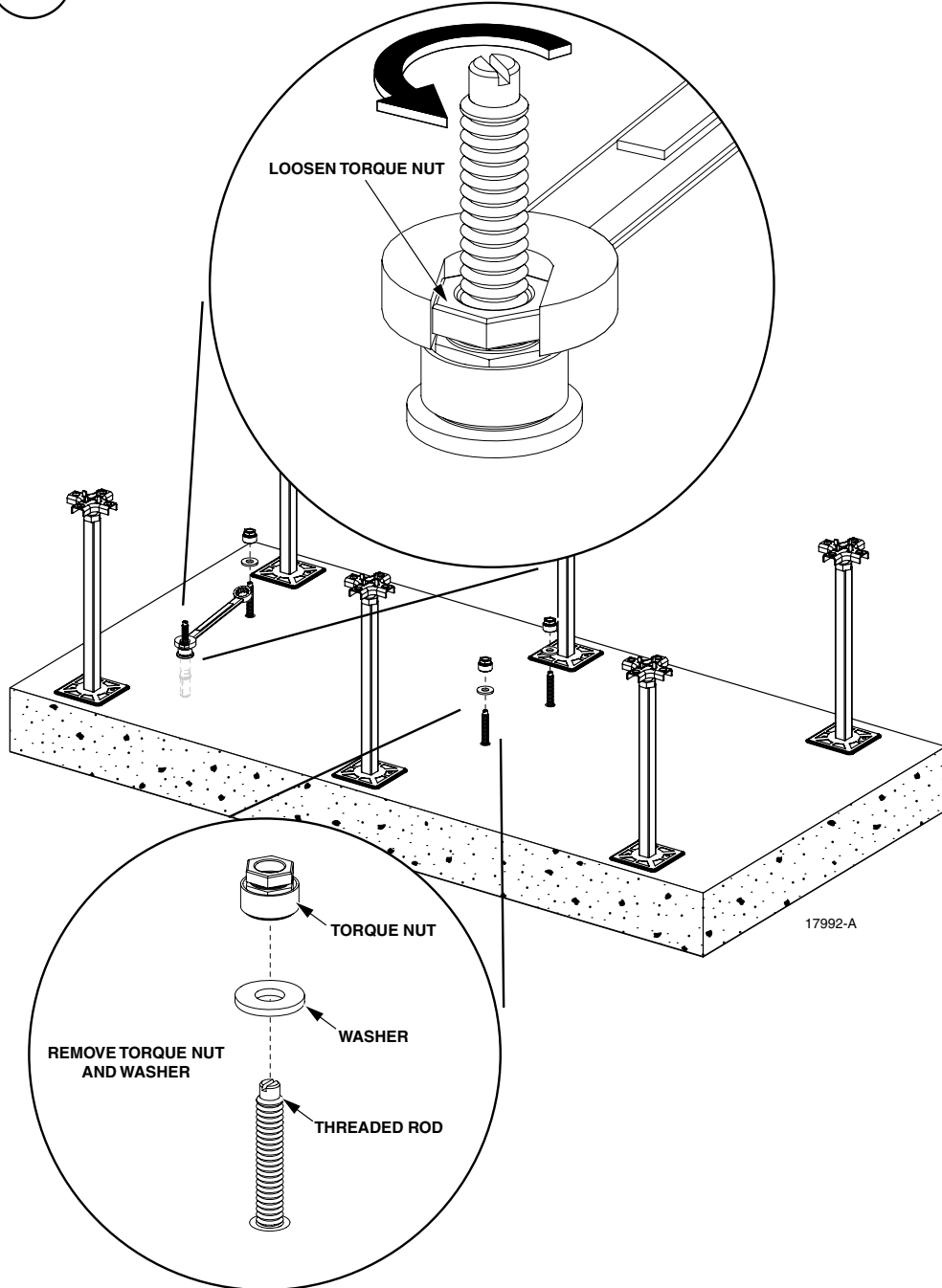
28 USE REFERENCE DIRECTION FROM LABEL INCLUDED ON THE ANCHOR BAG TO INSTALL THE ANCHOR BOLT.



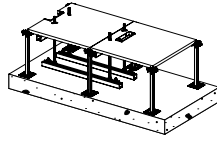
RAISED FLOOR INSTALLATION



29 LOOSEN THE TORQUE NUT SEVERAL TURNS, THEN REMOVE THE TORQUE NUT AND WASHER.

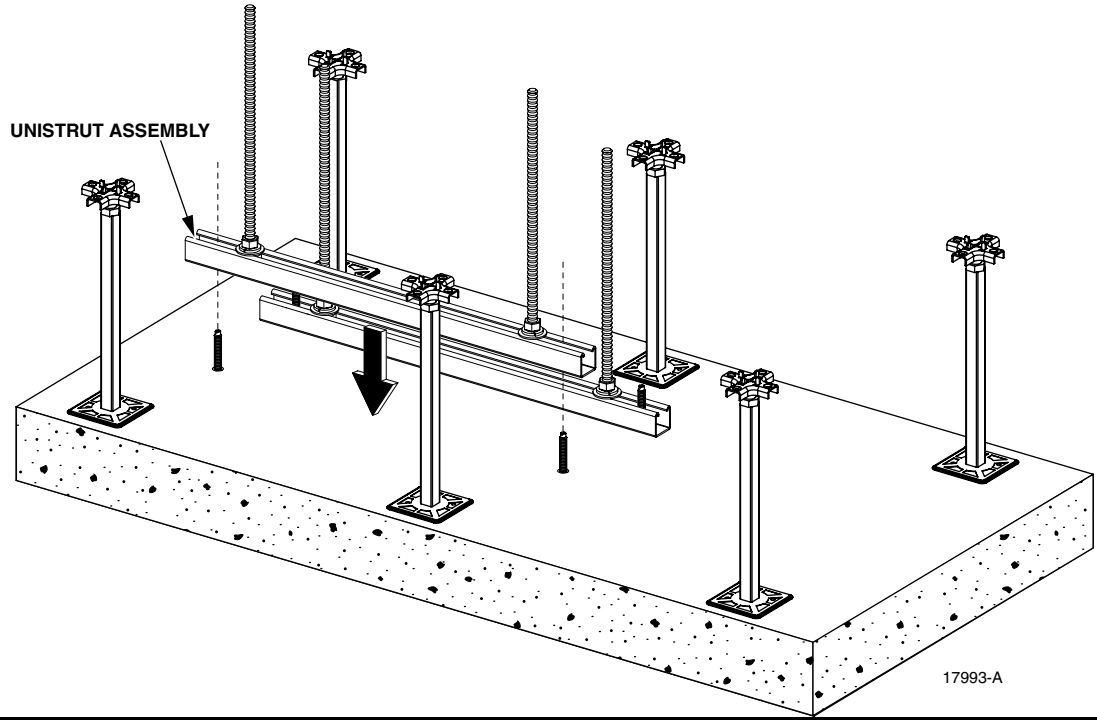


RAISED FLOOR INSTALLATION

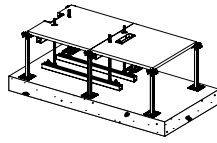


30

POSITION UNISTRUT ASSEMBLIES (2) OVER THREADED RODS

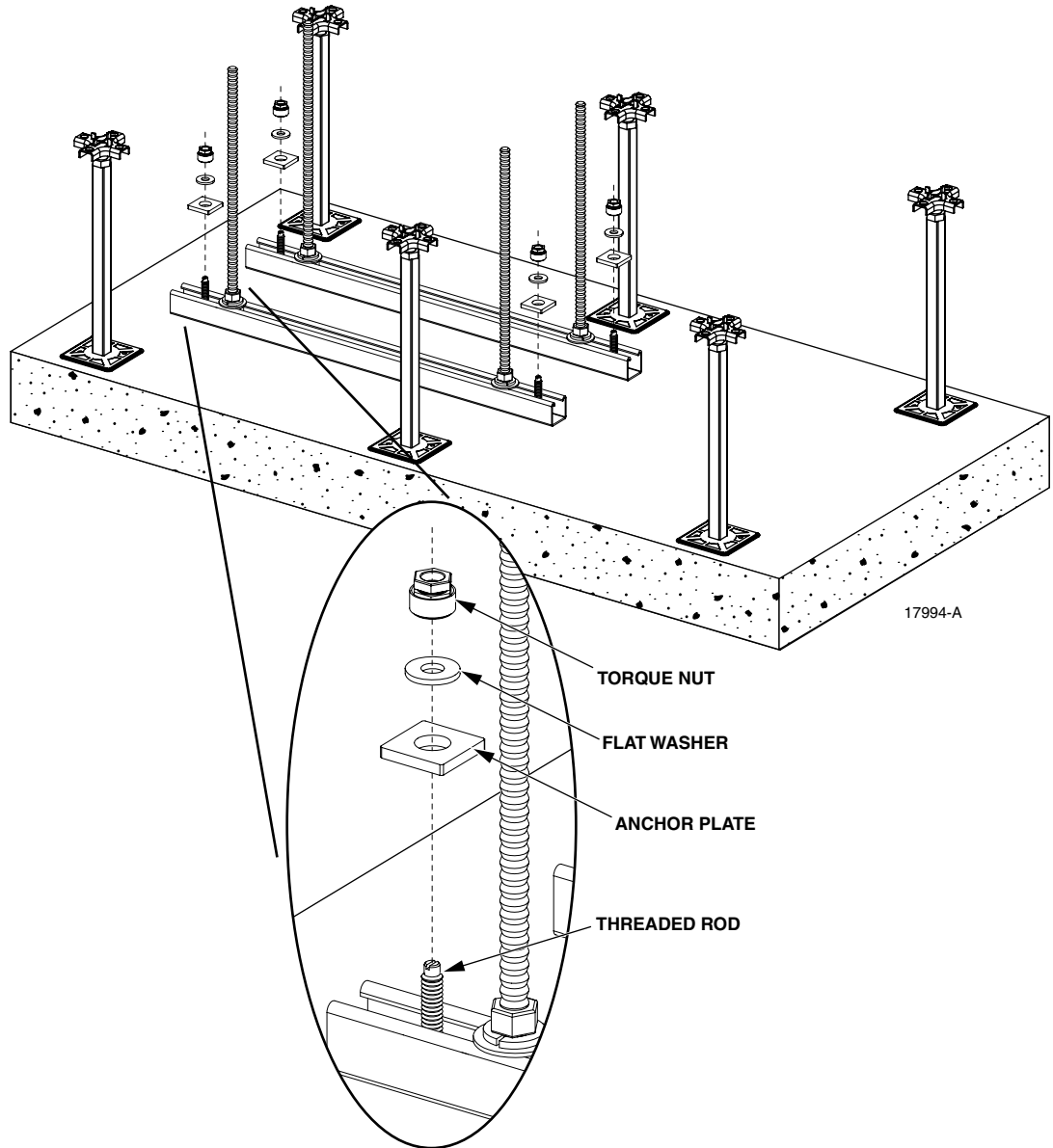


RAISED FLOOR INSTALLATION



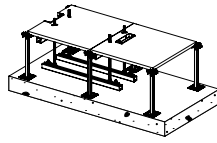
31

ASSEMBLE ANCHOR PLATE, FLAT WASHER, AND TORQUE NUT ONTO THREADED ROD



17994-A

RAISED FLOOR INSTALLATION

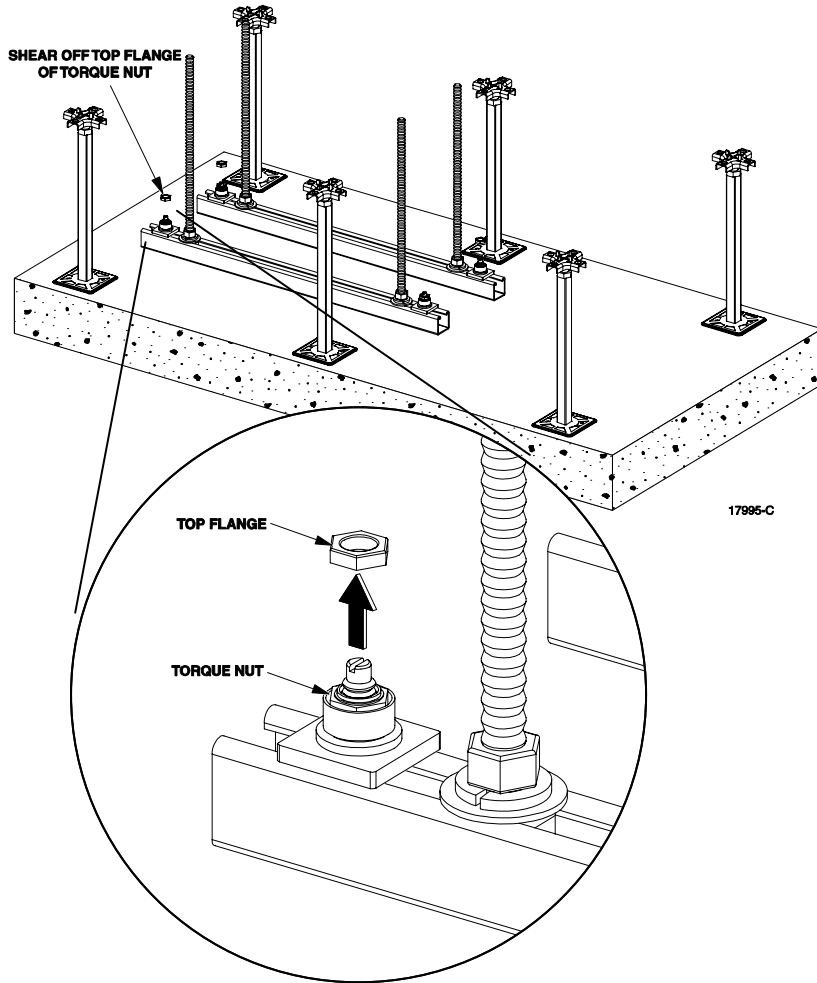


32

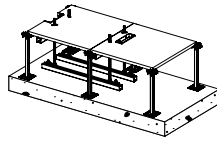
TIGHTEN TORQUE NUT UNTIL TOP FLANGE SHEARS OFF (4 PLACES).

NOTE:

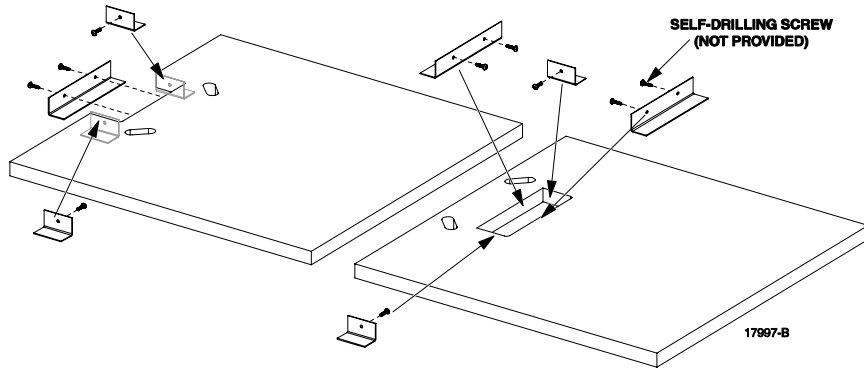
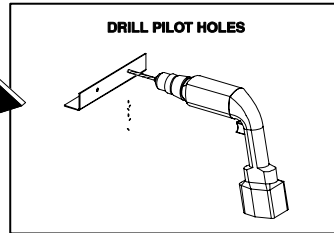
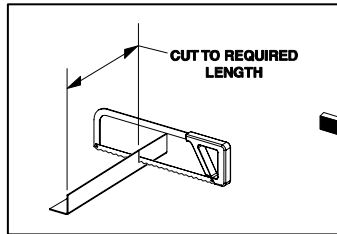
NOTE: THE TORQUE NUT WILL BE CORRECTLY SET AT 60 FT-LBS (81N-m) AS INDICATED ON THE LABEL FROM THE ANCHOR BOLT BAG.



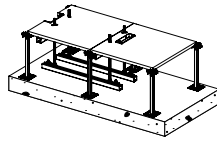
RAISED FLOOR INSTALLATION



33 CUT EDGE PROTECTOR TO REQUIRED LENGTH AND SECURE IT TO FLOOR TILES PER LOCAL REQUIREMENTS DEPENDING ON TYPE AND COMPOSITION OF FLOOR TILE.



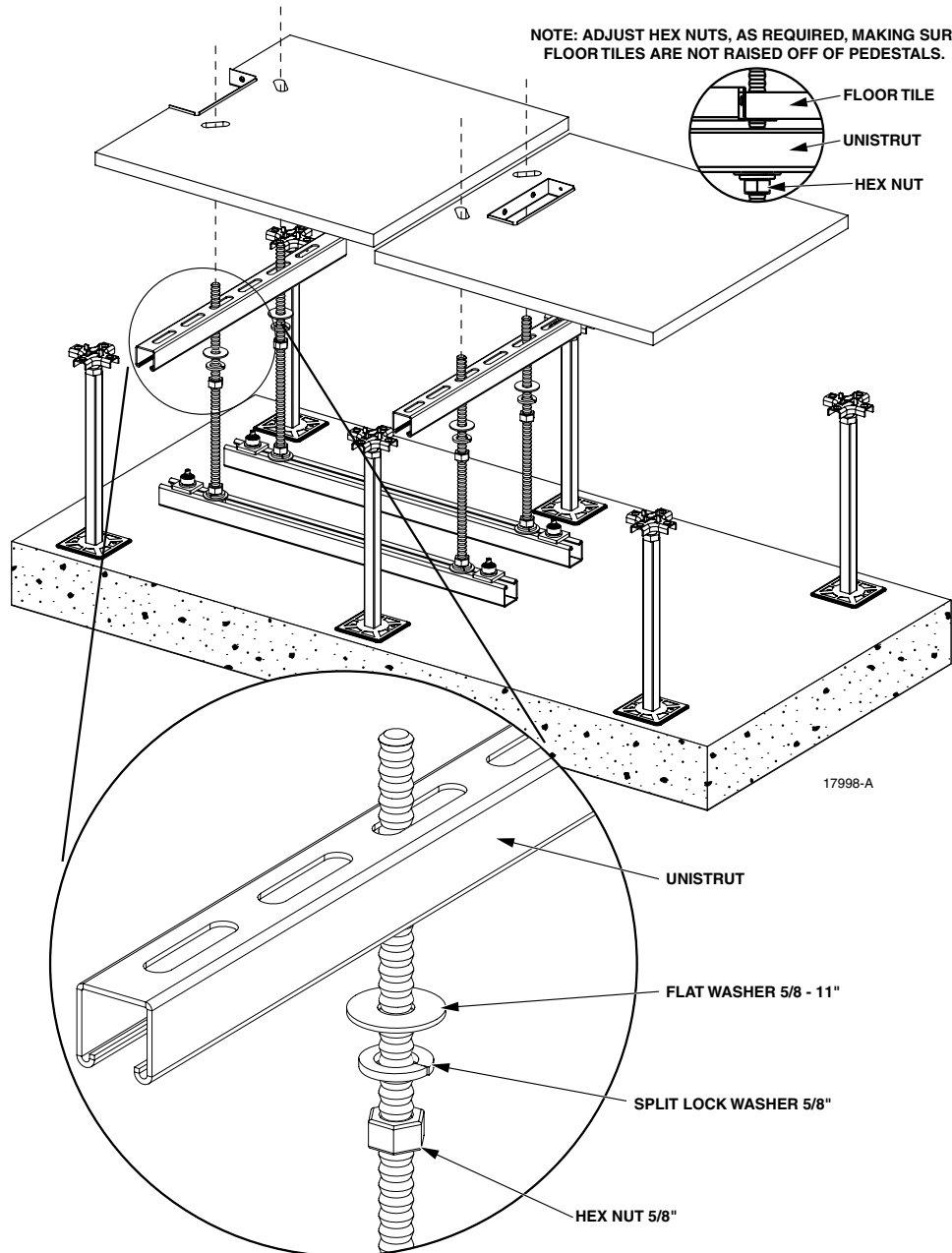
RAISED FLOOR INSTALLATION



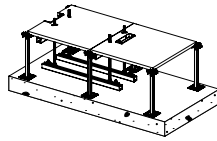
34

ASSEMBLE HEX NUTS, SPLIT LOCK WASHERS, FLAT WASHERS, UNISTRUTS, AND FLOOR TILES ONTO THREADED RODS

NOTE: ADJUST HEX NUTS, AS REQUIRED, MAKING SURE FLOOR TILES ARE NOT RAISED OFF OF PEDESTALS.



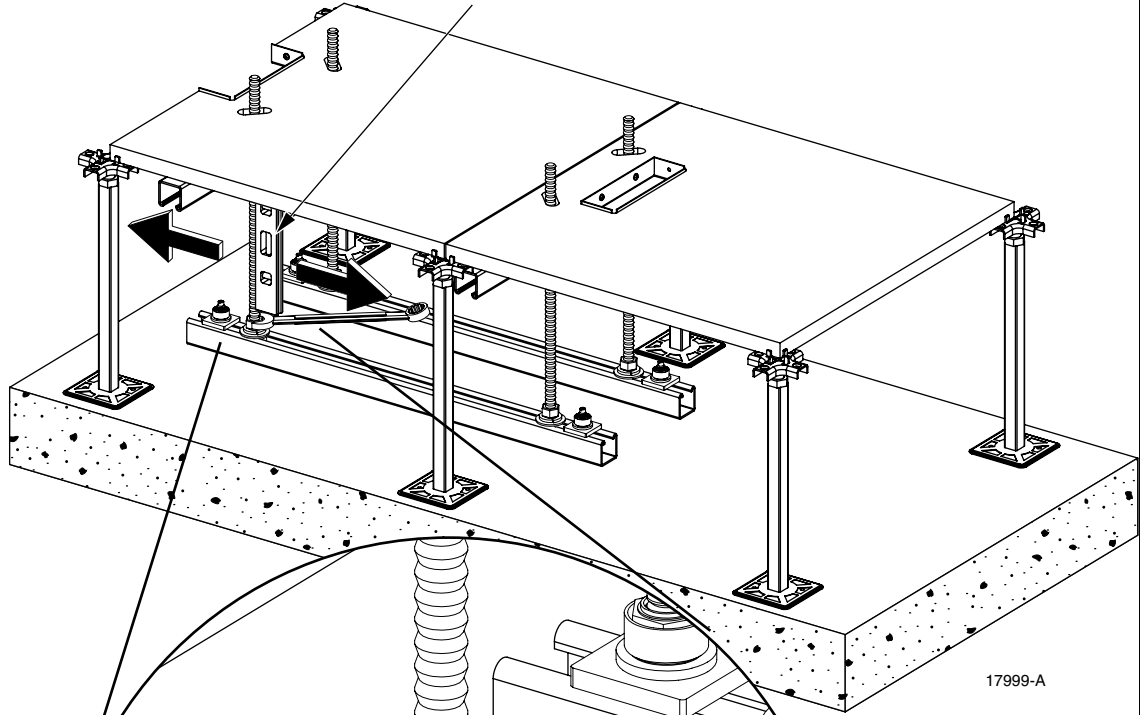
RAISED FLOOR INSTALLATION



35

LEVEL THREADED ROD ASSEMBLIES (4) AND TIGHTEN HEX NUTS (4)

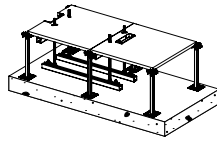
**LEVEL THREADED ROD ASSEMBLIES
SIDE TO SIDE**



TIGHTEN HEX NUT (4)

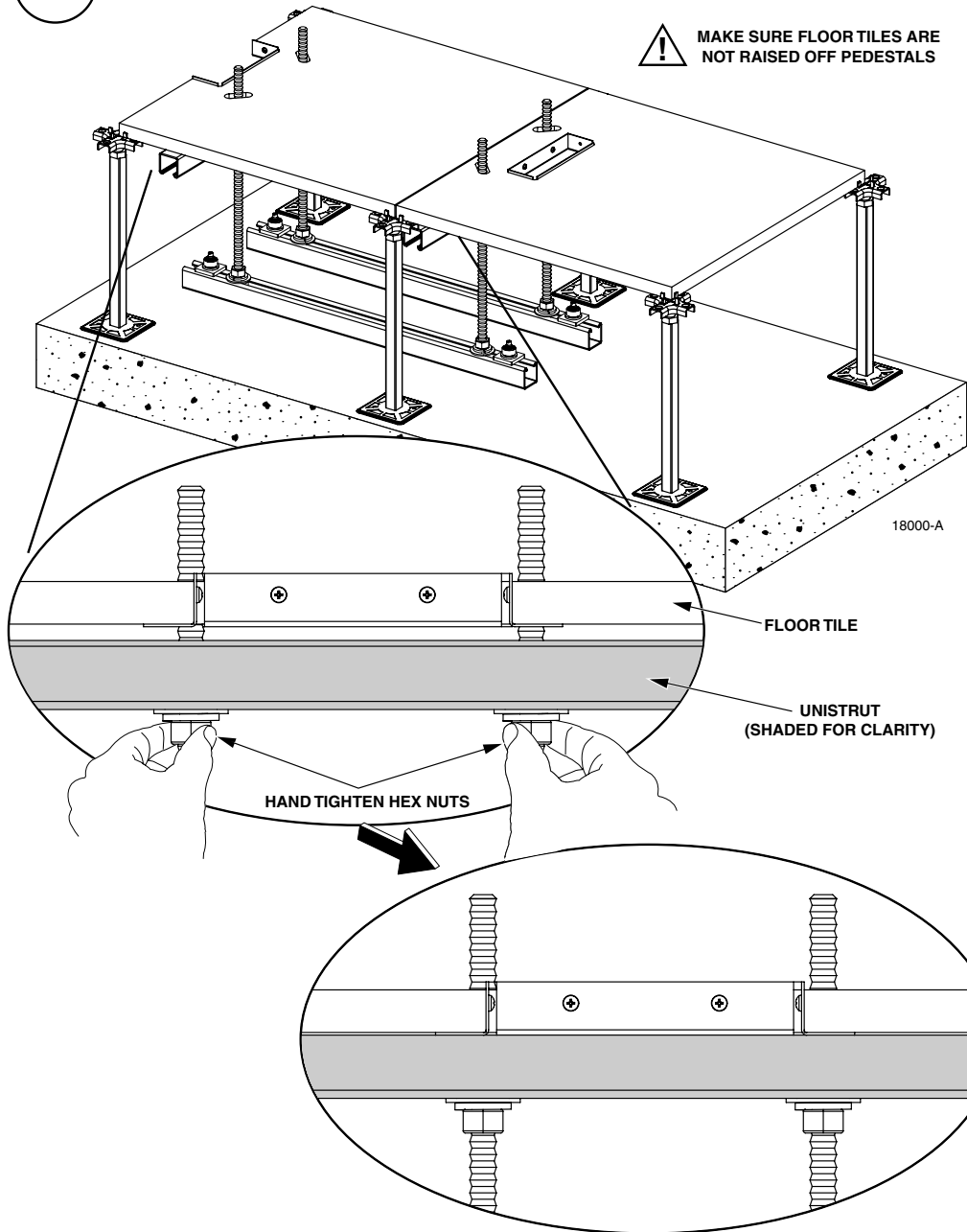
17999-A

RAISED FLOOR INSTALLATION

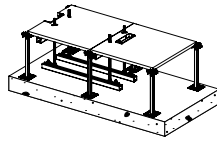


36 HAND TIGHTEN HEX NUTS TO RAISE UNISTRUTS TO FLOOR TILE

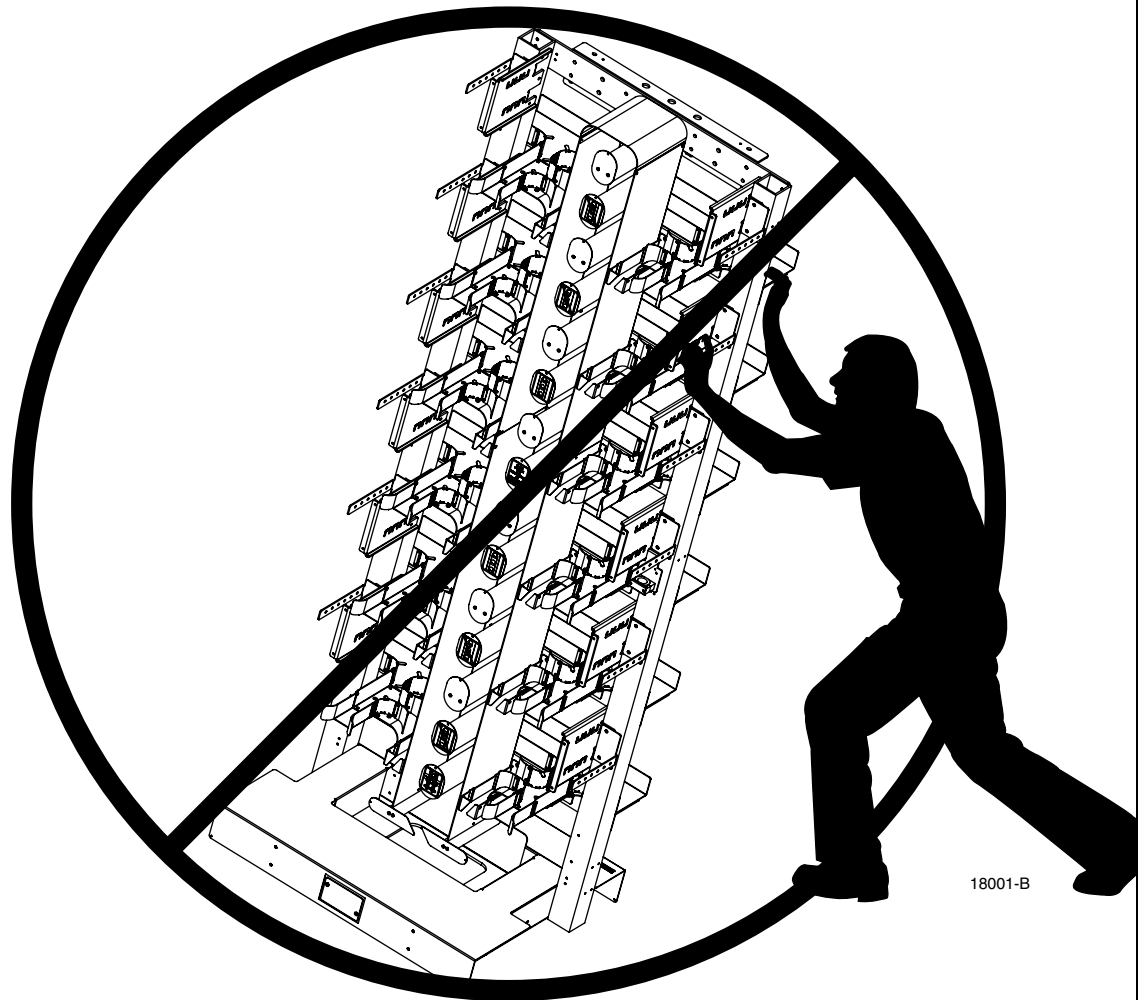
! MAKE SURE FLOOR TILES ARE NOT RAISED OFF PEDESTALS



RAISED FLOOR INSTALLATION

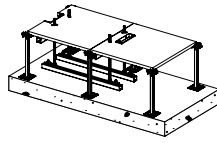


CAUTION: A RACK LOADED WITH PANELS WEIGHS APPROXIMATELY 204.12 KILOS (450 LBS). DO NOT ATTEMPT TO LIFT OR MOVE THE RACK WITHOUT USING APPROPRIATE EQUIPMENT

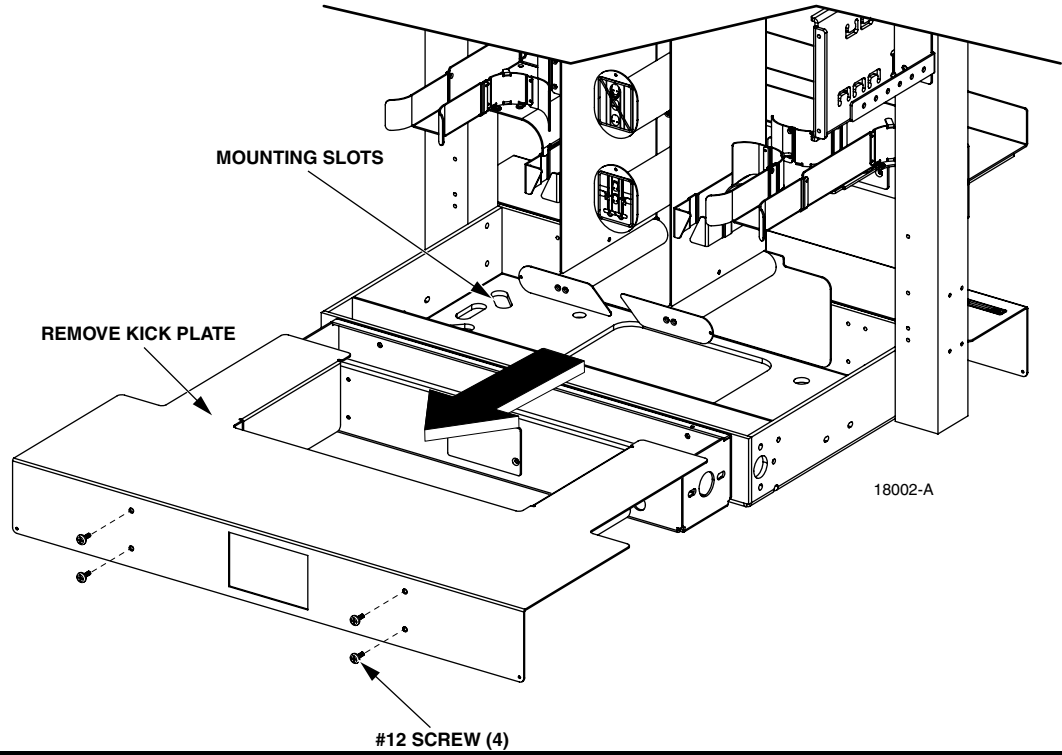


18001-B

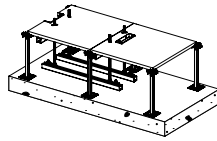
RAISED FLOOR INSTALLATION



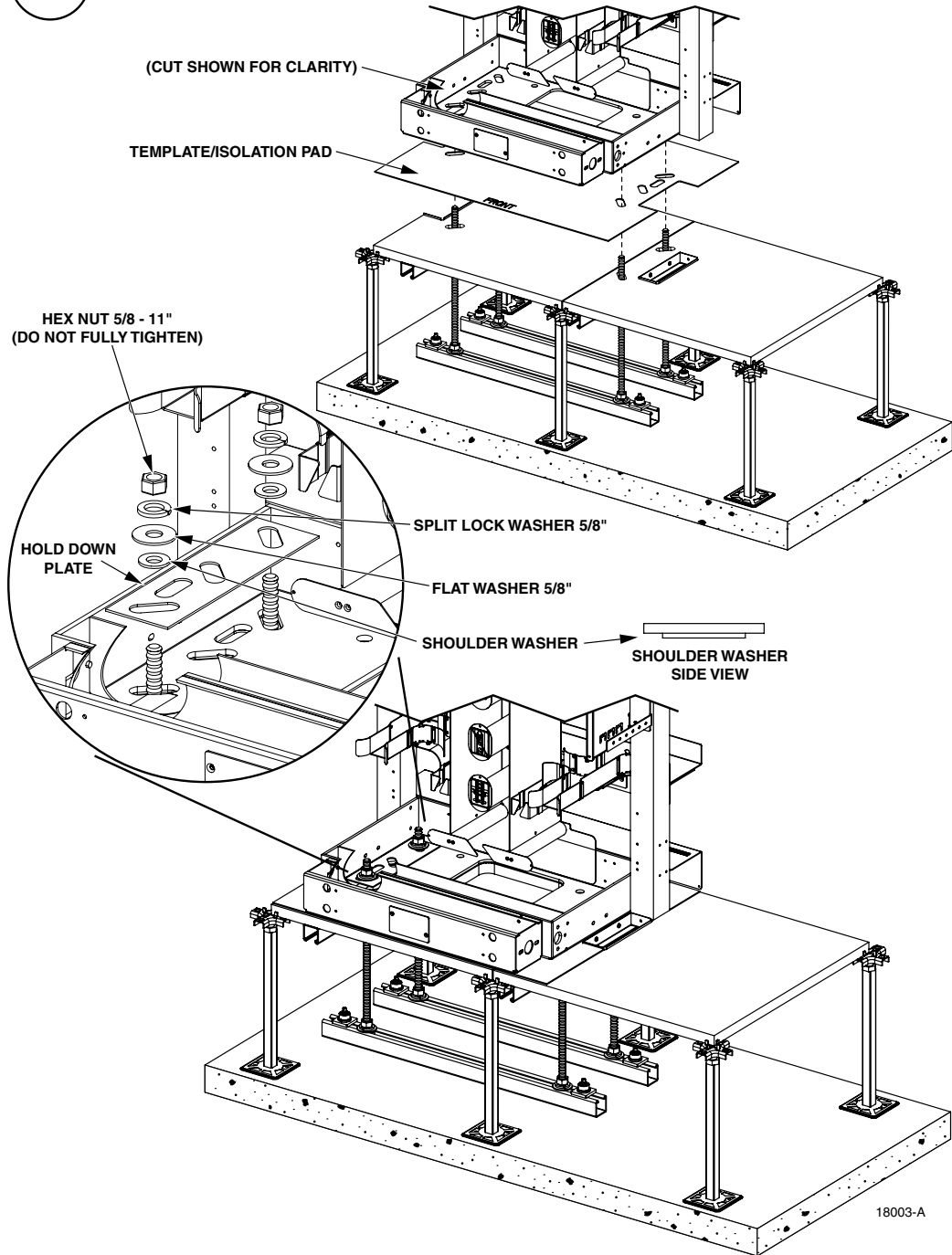
37 REMOVE KICK PLATE TO ACCESS MOUNTING SLOTS IN BASE OF RACK



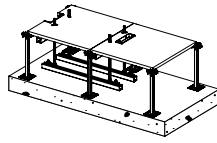
RAISED FLOOR INSTALLATION



38 POSITION TEMPLATE/ISOLATION PAD AND RACK ON FLOOR TILE AND INSTALL HARDWARE

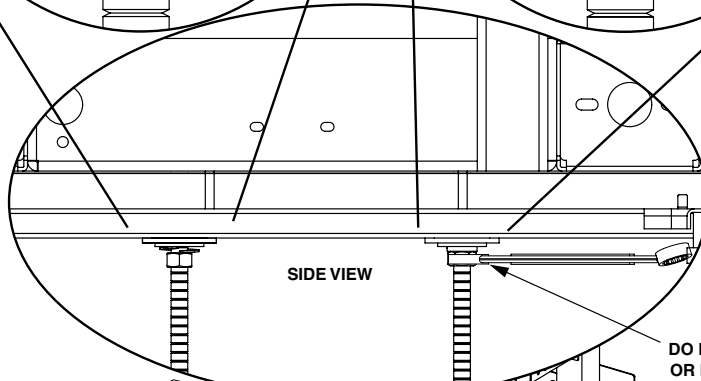
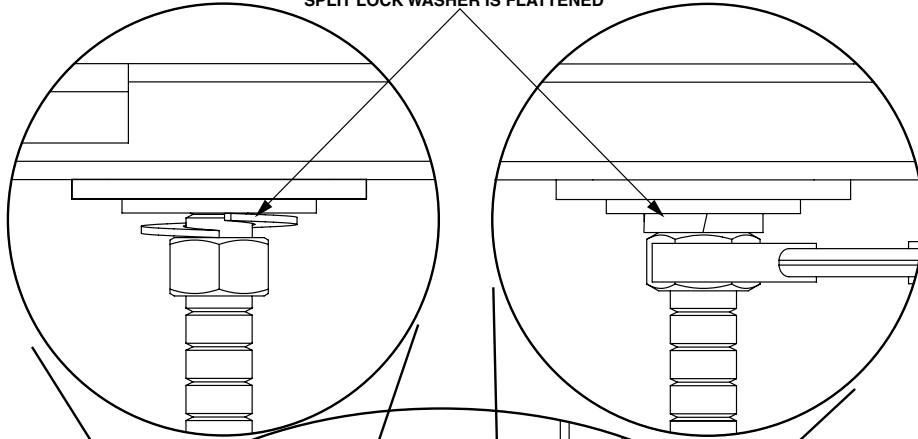


RAISED FLOOR INSTALLATION

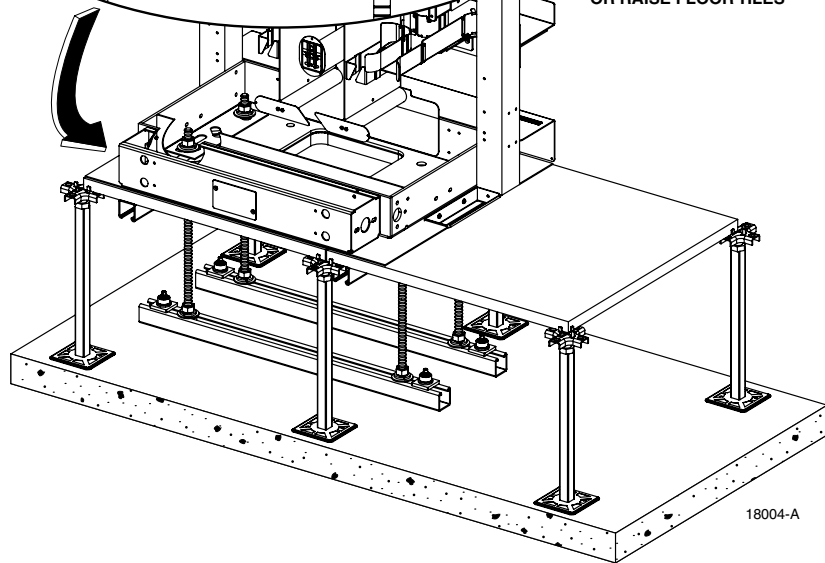


39 USE WRENCH TO TIGHTEN HEX NUTS UNDER FLOOR TILE (DO NOT FULLY TIGHTEN)

TIGHTEN HEX NUTS UNTIL
SPLIT LOCK WASHER IS FLATTENED

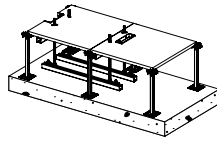


DO NOT FULLY TIGHTEN
OR RAISE FLOOR TILES



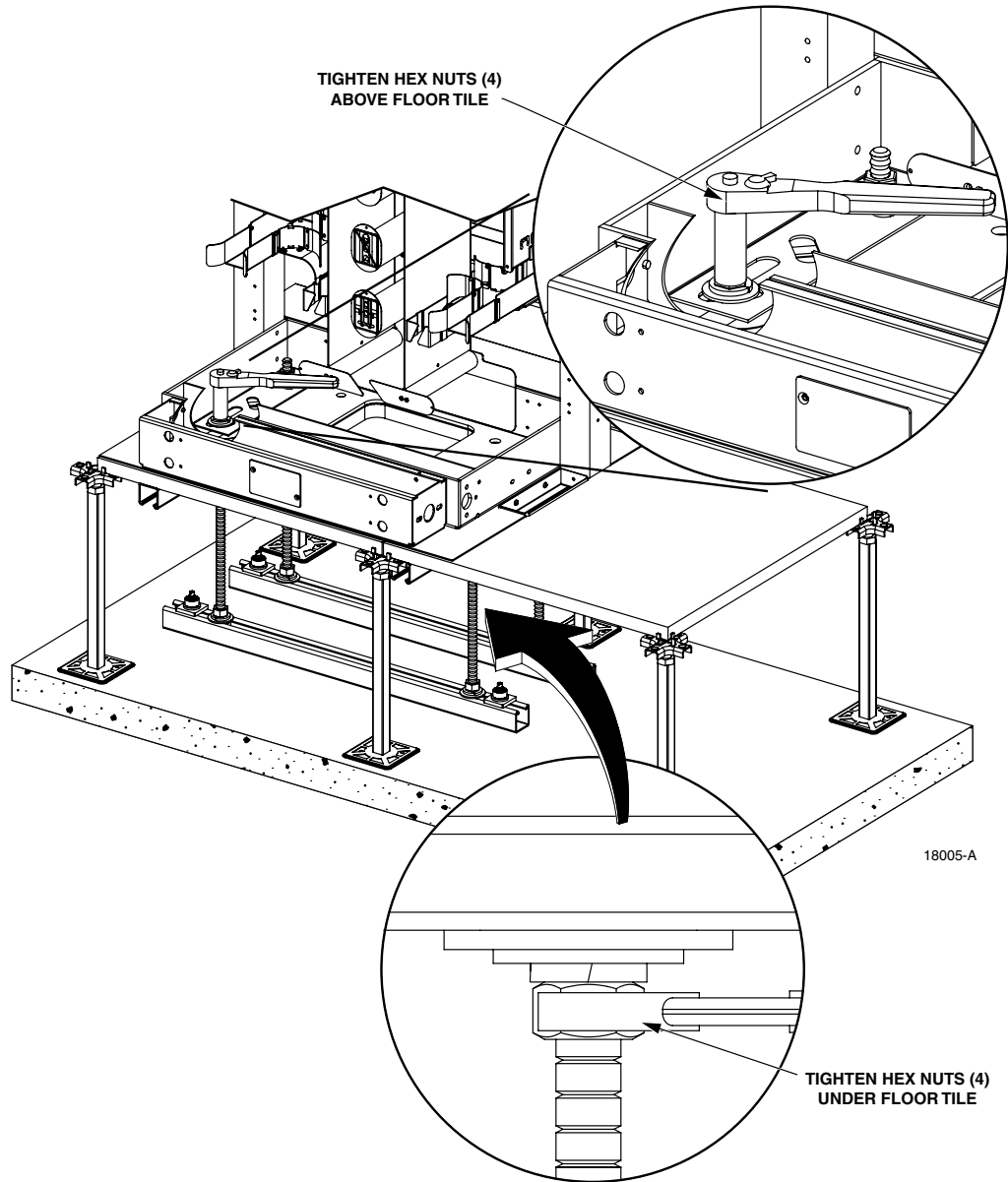
18004-A

RAISED FLOOR INSTALLATION



40

FULLY TIGHTEN HEX NUTS ABOVE FLOOR TILE, THEN FULLY TIGHTEN HEX NUTS (4) UNDER FLOOR TILE

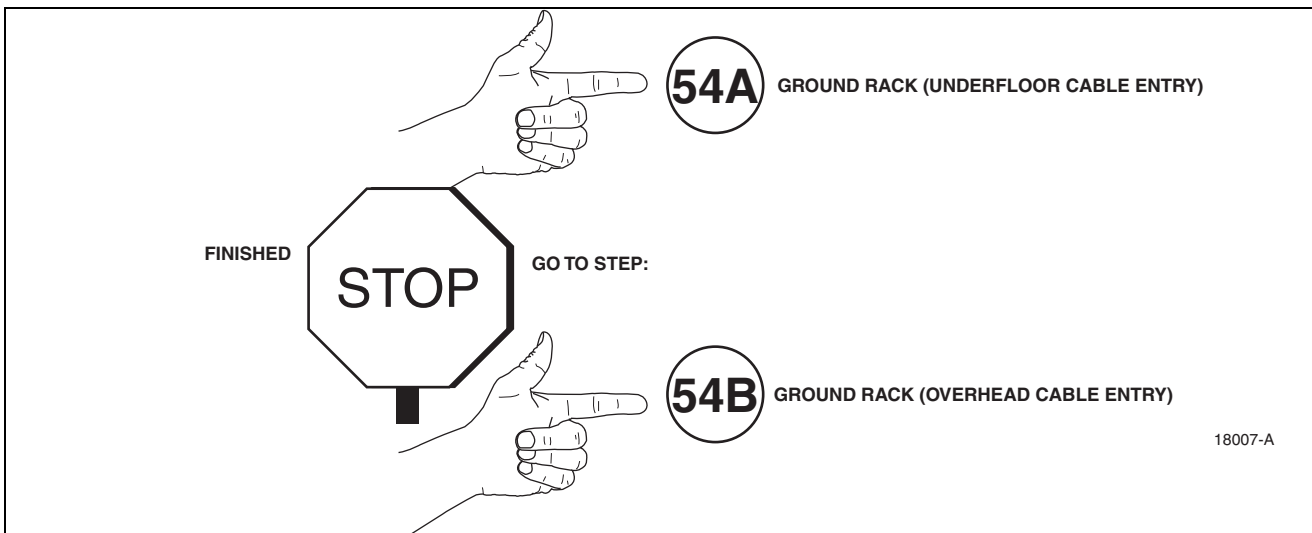
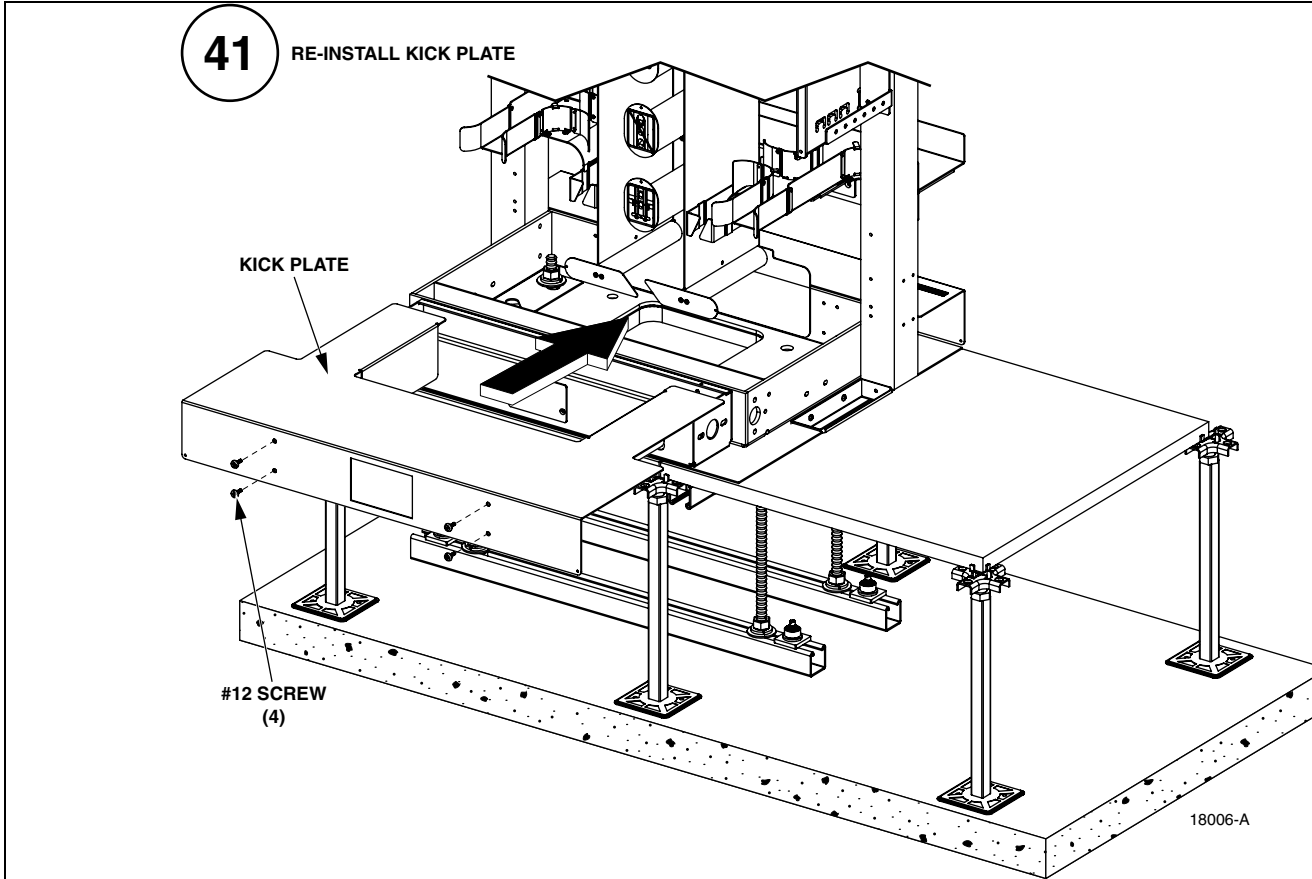
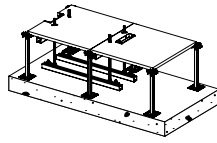


TIGHTEN HEX NUTS (4)
ABOVE FLOOR TILE

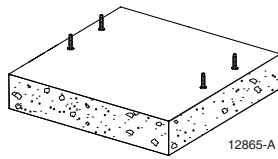
TIGHTEN HEX NUTS (4)
UNDER FLOOR TILE

18005-A

RAISED FLOOR INSTALLATION

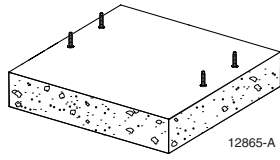


CONCRETE FLOOR INSTALLATION

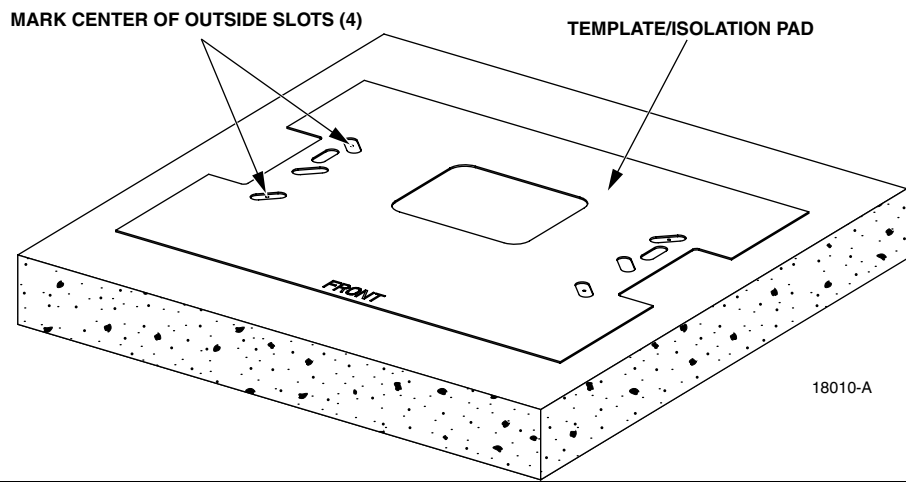


<p>42 — PARTS REQUIRED</p>	
<p>Anchor Bolt Assembly (4) (Provided with Rack)</p>	
<p>HOLD DOWN PLATE (2) (Provided with Rack)</p>	
<p>Hold Down Washer, Square (4) (Provided with Rack)</p>	

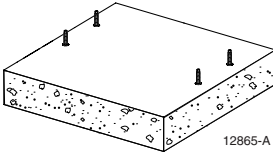
CONCRETE FLOOR INSTALLATION



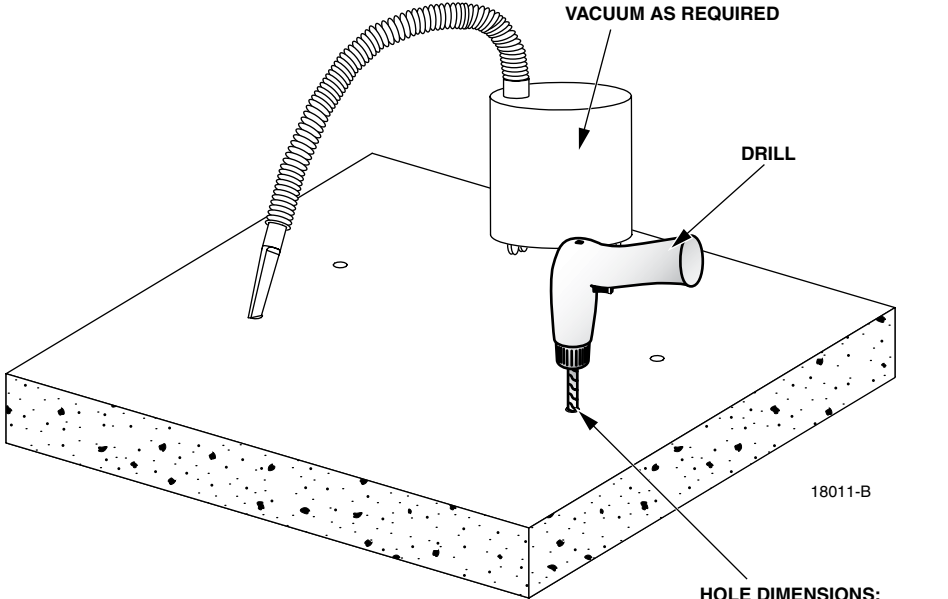
43 PLACE TEMPLATE/ISOLATION PAD ON CONCRETE FLOOR LOCATION AND MARK CONCRETE



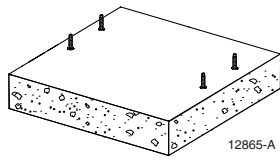
CONCRETE FLOOR INSTALLATION



44 SET TEMPLATE ASIDE AND DRILL HOLES IN CONCRETE

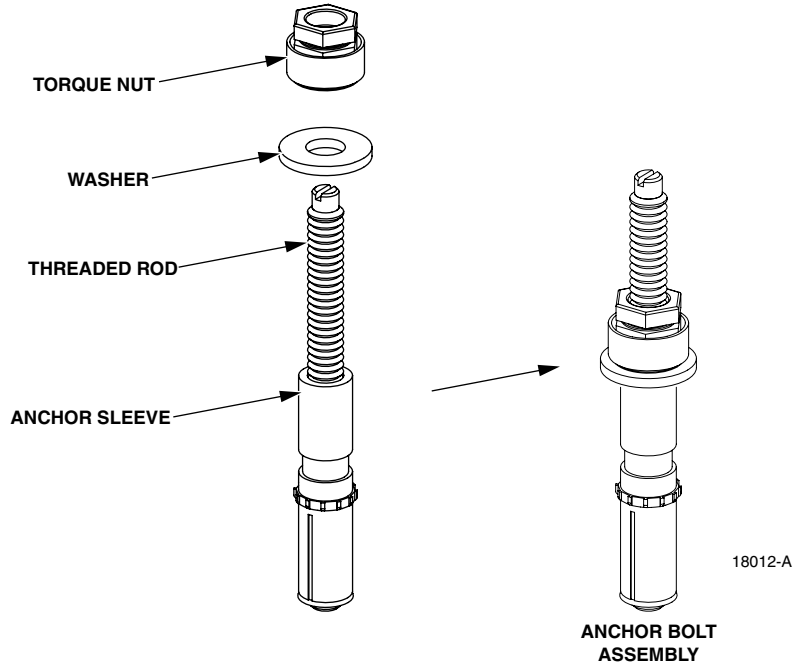


CONCRETE FLOOR INSTALLATION

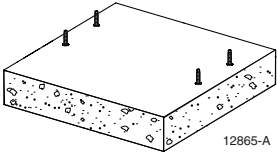


45

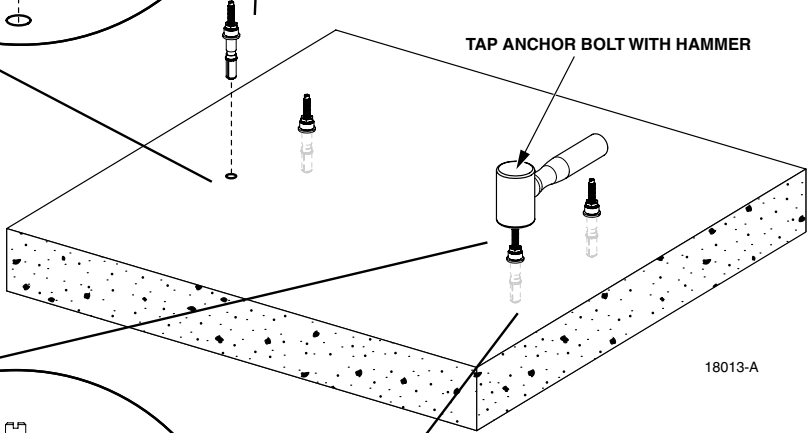
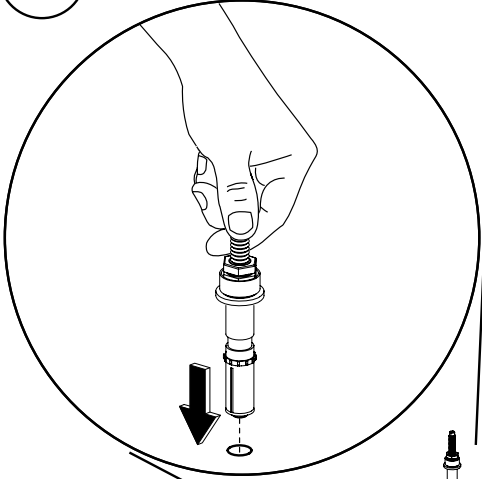
THREAD THE WASHER AND TORQUE NUT ONTO THE THEADED ROD.
THE WASHER SHOULD TOUCH THE TOP OF THE ANCHOR SLEEVE.



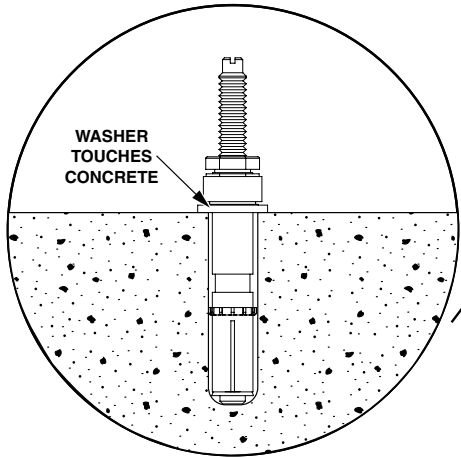
CONCRETE FLOOR INSTALLATION



46 INSERT THE ANCHOR BOLT ASSEMBLY INTO THE HOLE.
TAP THE ANCHOR BOLT ASSEMBLY WITH A HAMMER UNTIL THE WASHER TOUCHES THE CONCRETE.

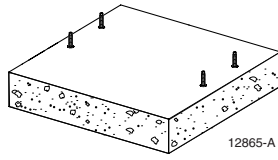


18013-A



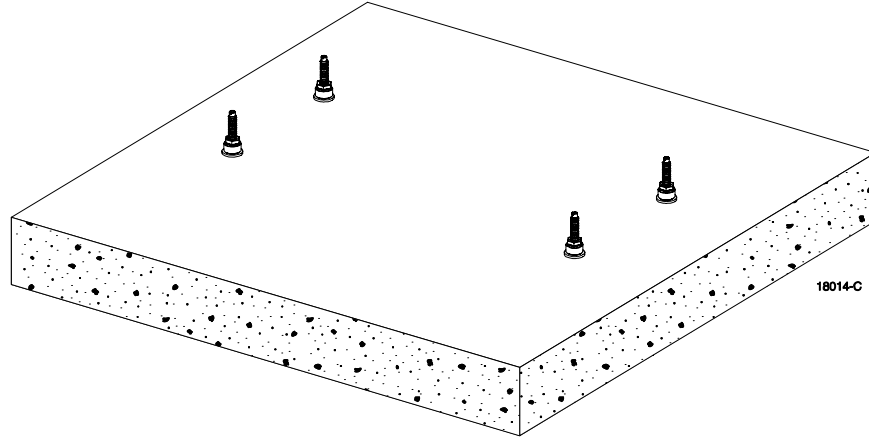
SIDE VIEW

CONCRETE FLOOR INSTALLATION

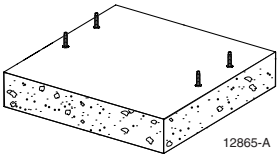


47

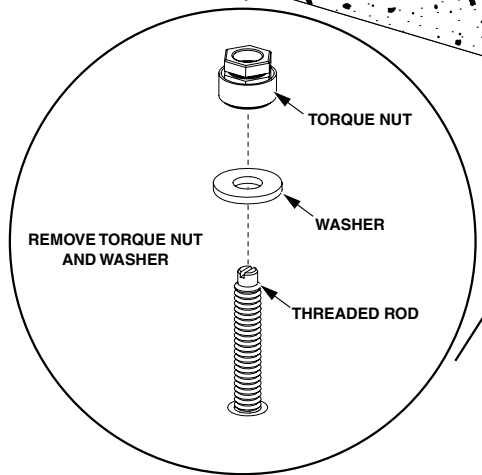
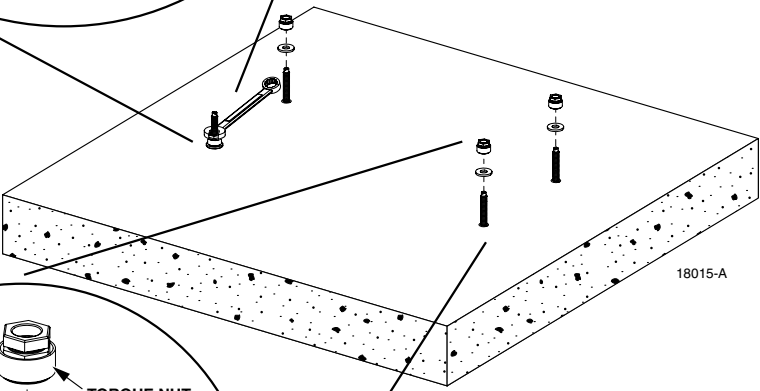
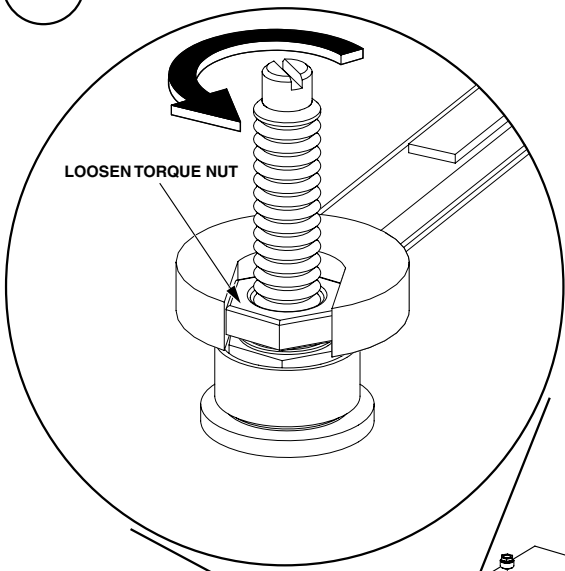
USE REFERENCE DIRECTION FROM LABEL INCLUDED ON THE ANCHOR BAG TO INSTALL THE ANCHOR BOLT.



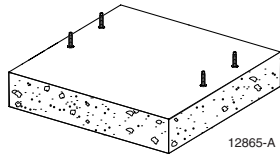
CONCRETE FLOOR INSTALLATION



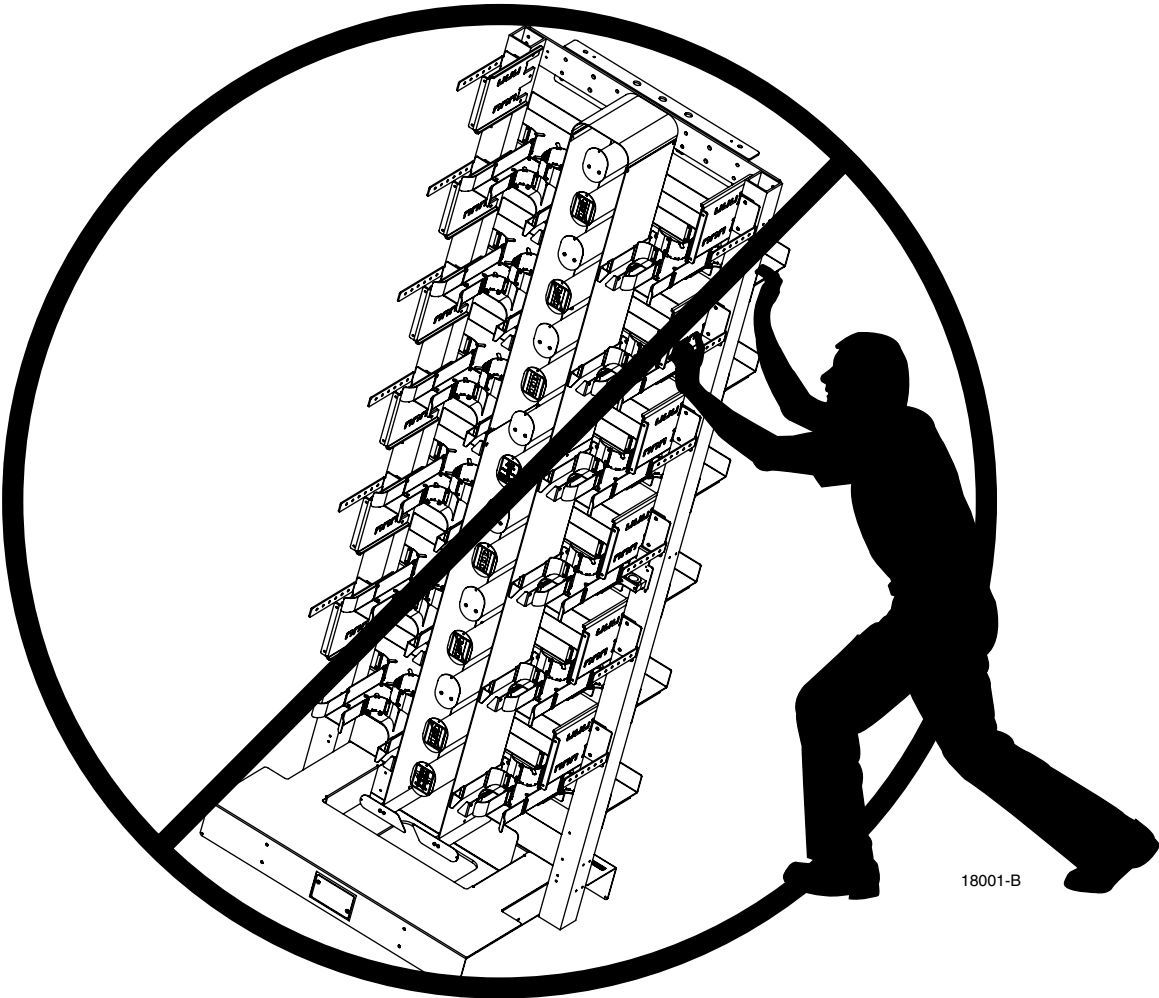
48 LOOSEN THE TORQUE NUT SEVERAL TURNS, THEN REMOVE THE TORQUE NUT AND WASHER.



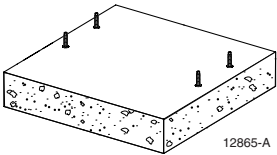
CONCRETE FLOOR INSTALLATION



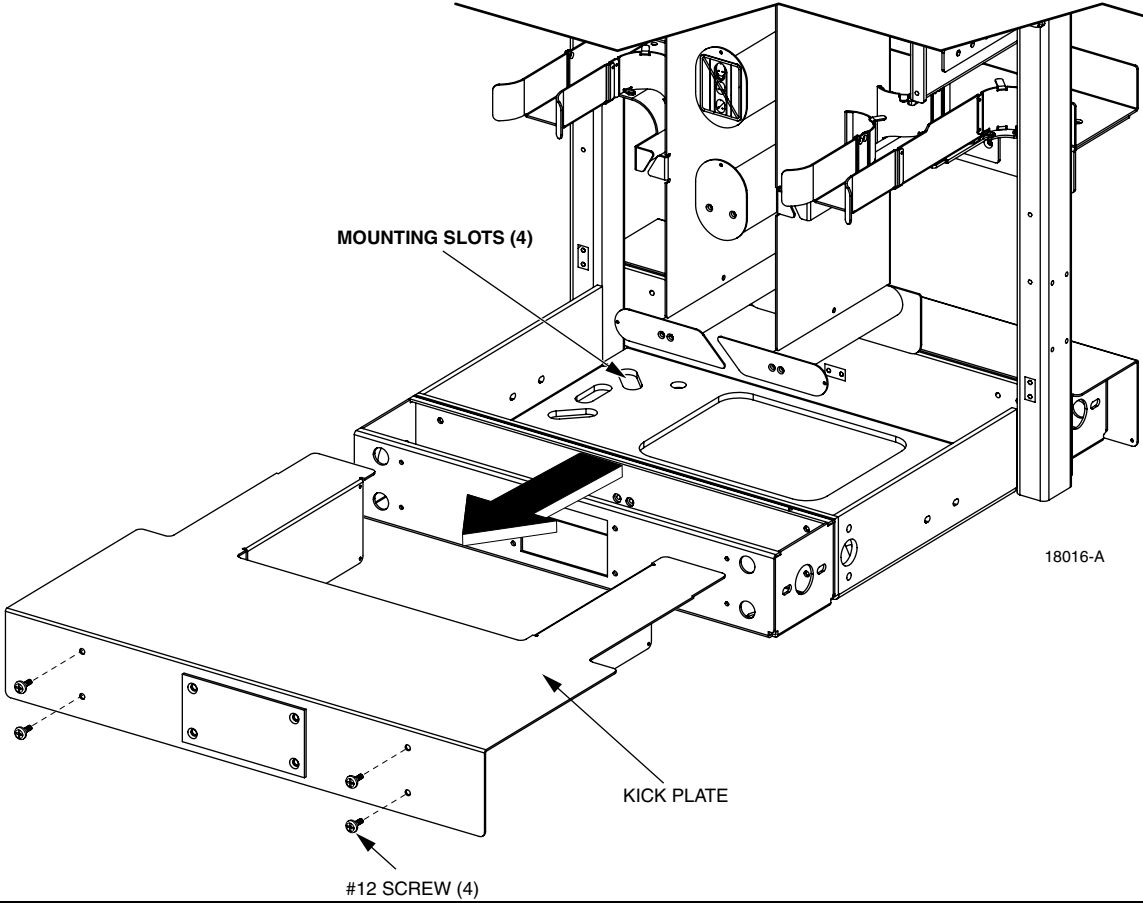
CAUTION: A RACK LOADED WITH PANELS WEIGHS APPROXIMATELY 204.12 KILOS (450 LBS). DO NOT ATTEMPT TO LIFT OR MOVE THE RACK WITHOUT USING APPROPRIATE EQUIPMENT



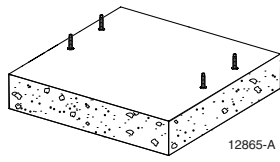
CONCRETE FLOOR INSTALLATION



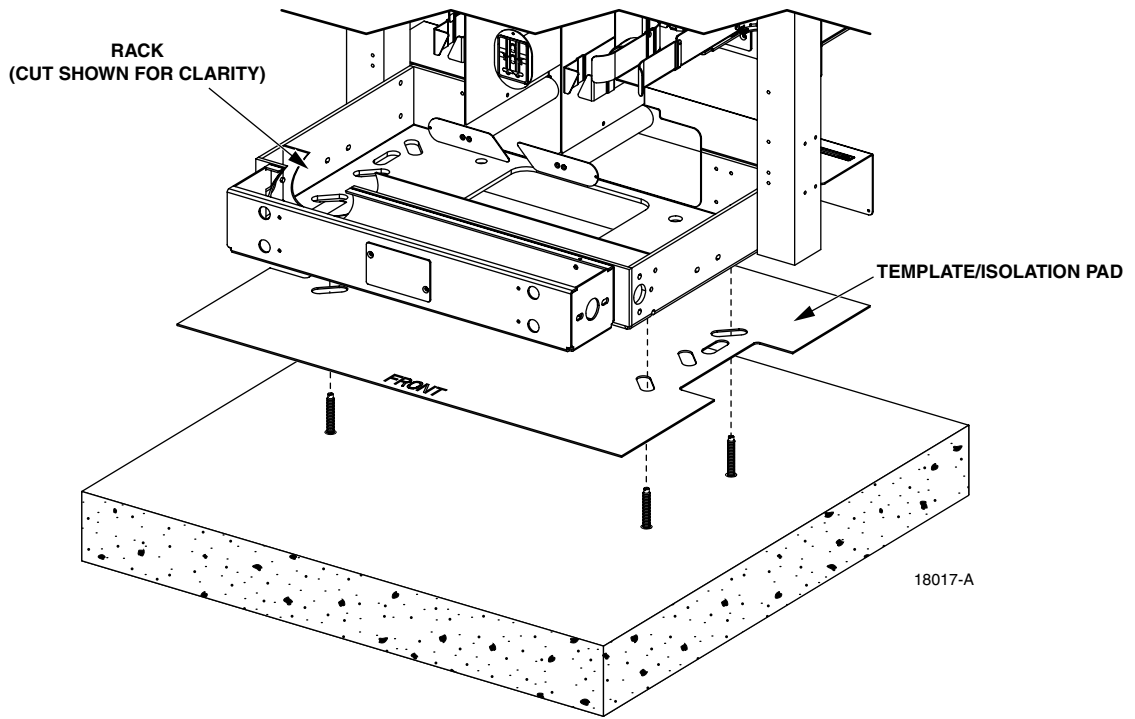
49 REMOVE KICK PLATE TO ACCESS MOUNTING SLOTS IN BASE OF RACK



CONCRETE FLOOR INSTALLATION

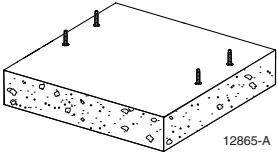


50 POSITION TEMPLATE/ISOLATION PAD AND RACK ON CONCRETE



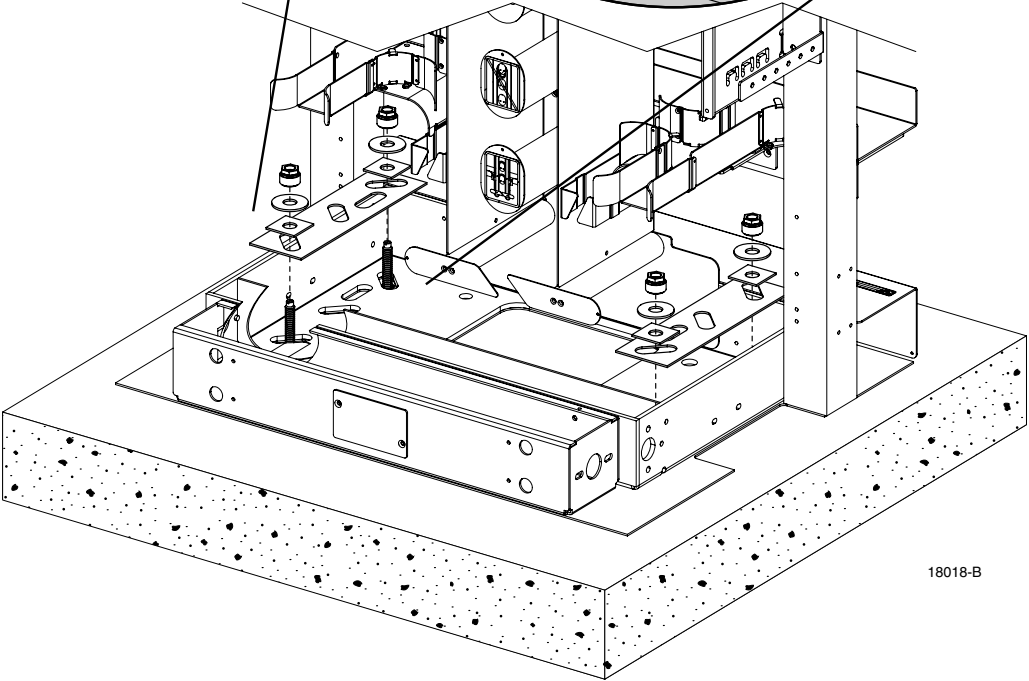
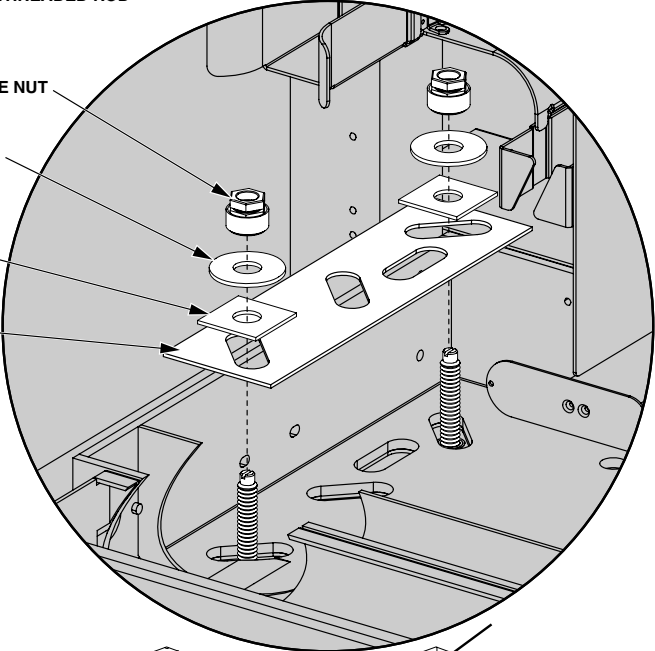
NOTE: USE LEVELING SHIMS (PROVIDED)
TO LEVEL RACK, IF NECESSARY

CONCRETE FLOOR INSTALLATION



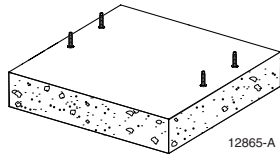
51 ASSEMBLE HARDWARE ONTO THREADED ROD

- TORQUE NUT
- FLAT WASHER
- HOLD DOWN WASHER
- HOLD DOWN PLATE



18018-B

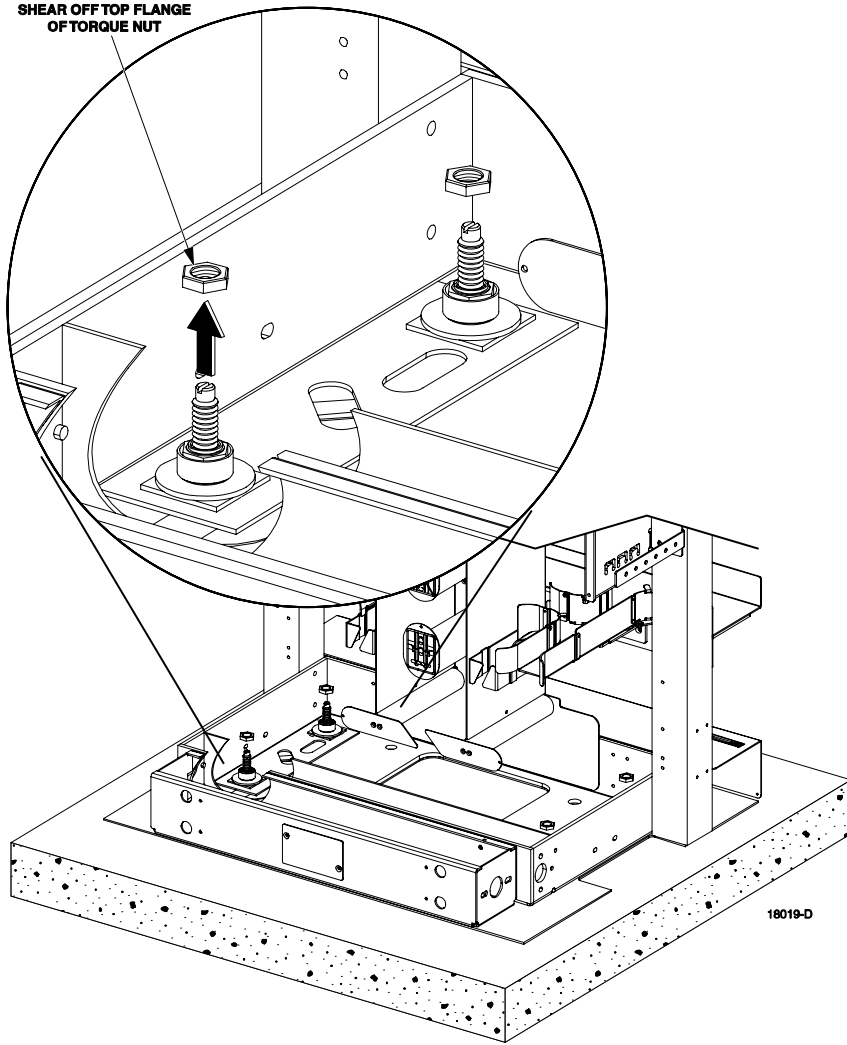
CONCRETE FLOOR INSTALLATION



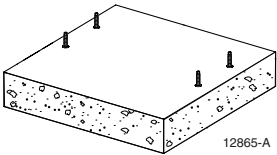
52 TIGHTEN TORQUE NUT UNTIL TOP FLANGE SHEARS OFF (4 PLACES).

NOTE: NOTE: THE TORQUE NUT WILL BE CORRECTLY SET AT 60 FT-LBS (81 N-m) AS INDICATED ON THE LABEL FROM THE ANCHOR BOLT BAG.

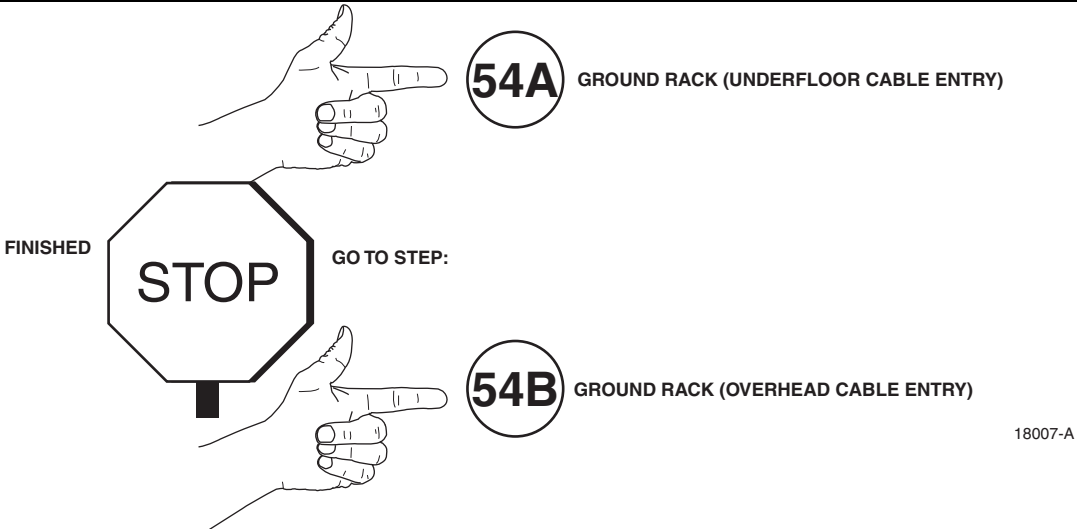
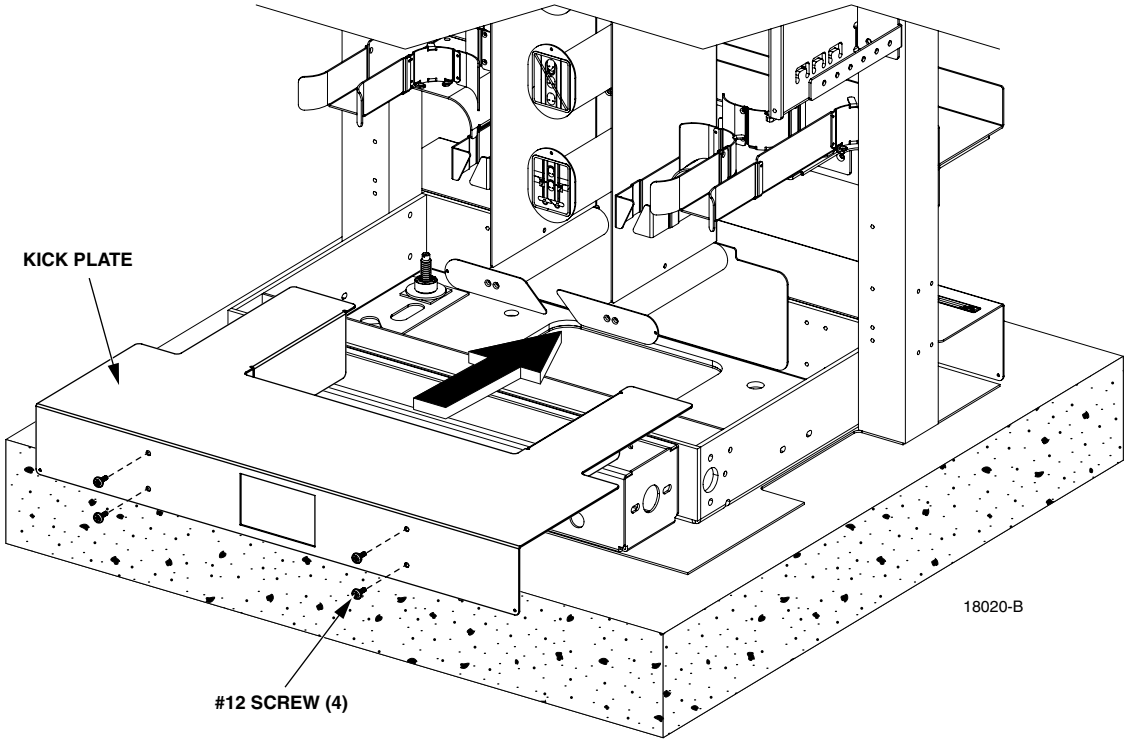
SHEAR OFF TOP FLANGE OF TORQUE NUT



CONCRETE FLOOR INSTALLATION

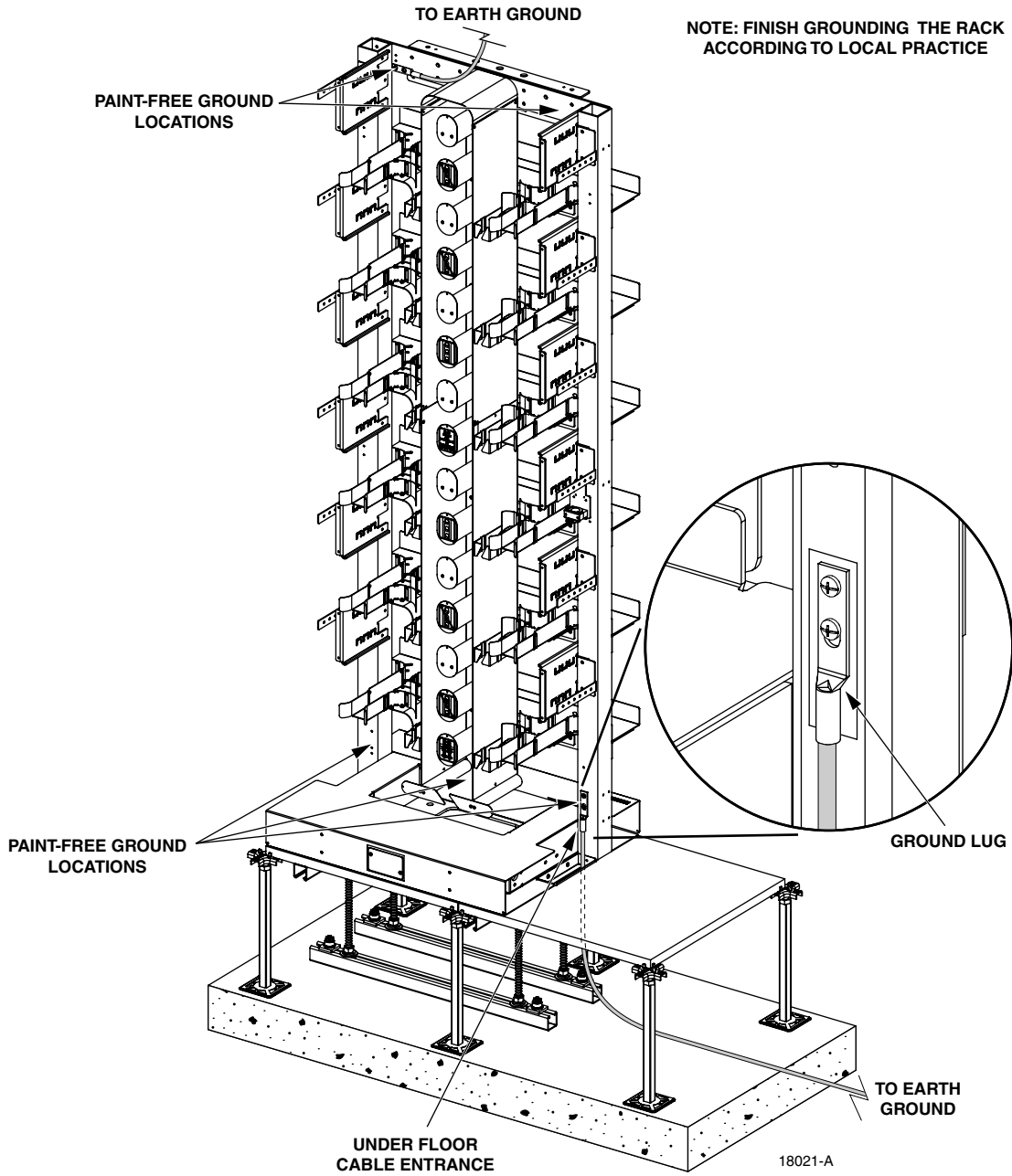


53 RE-INSTALL KICK PLATE



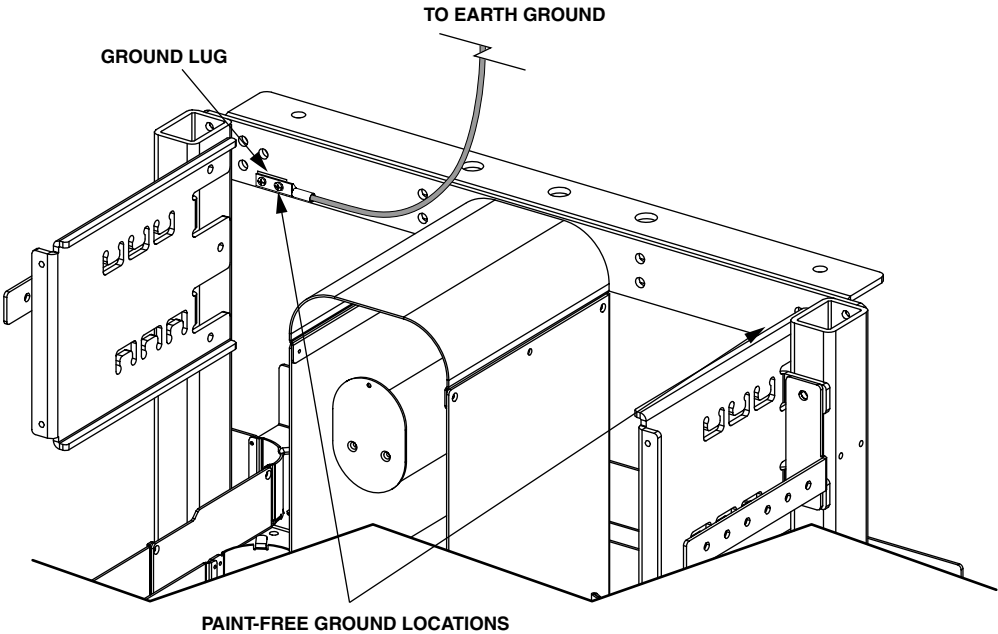
54A GROUND RACK

**NOTE: REMOVE TAPE TO EXPOSE BARE METAL IN GROUNDING LOCATION.
APPLY BONDING COMPOUND TO BARE METAL.**



54B GROUND RACK (OVERHEAD CABLE ENTRY)

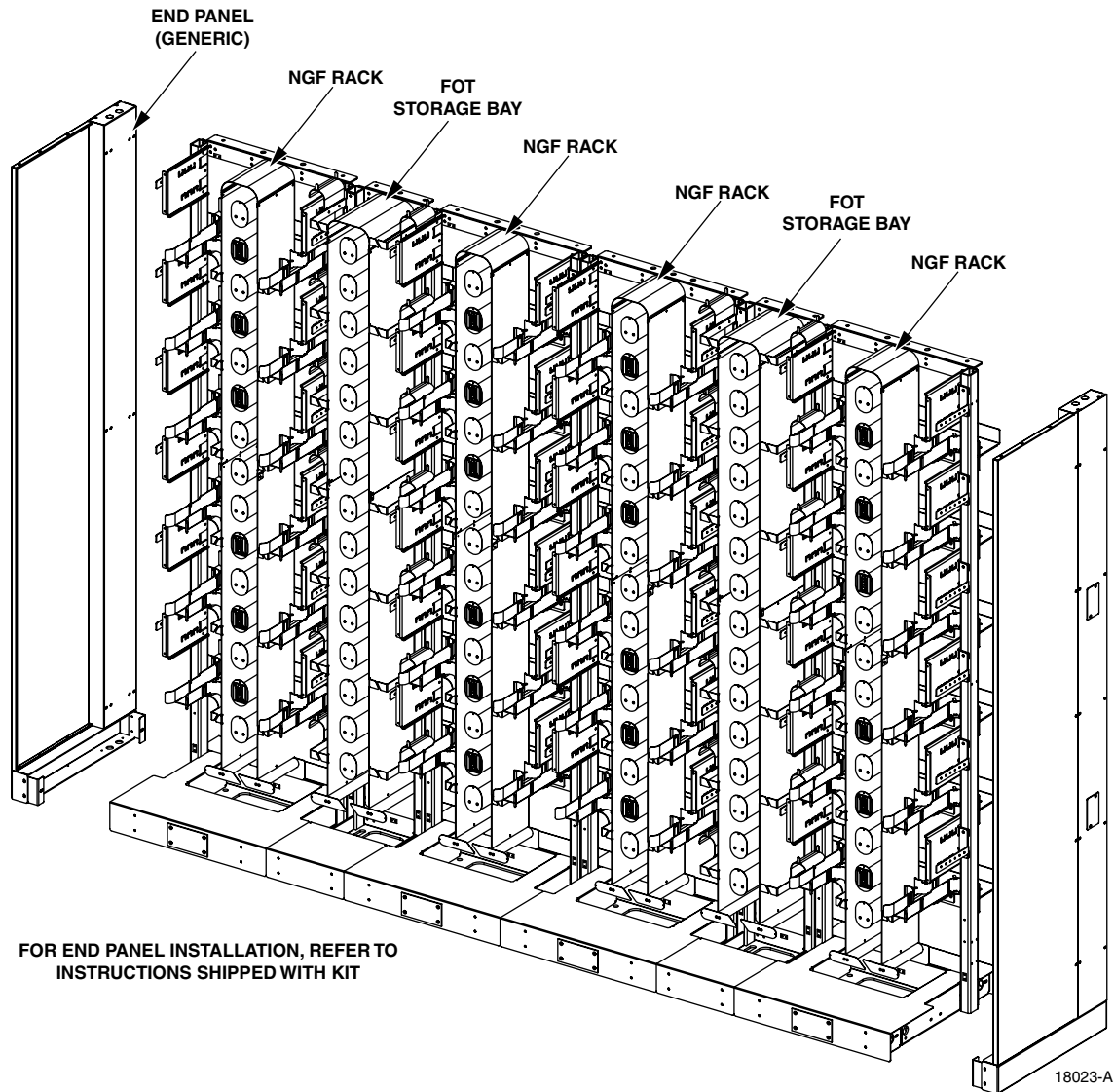
NOTE: REMOVE TAPE TO EXPOSE BARE METAL IN GROUNDING LOCATION. APPLY BONDING COMPOUND TO BARE METAL.



NOTE: FINISH GROUNDING THE RACK ACCORDING TO LOCAL PRACTICE

18022-A

55 LINE UP EXAMPLE



FOR END PANEL INSTALLATION, REFER TO INSTRUCTIONS SHIPPED WITH KIT

18023-A



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