

Pre-Engineered Cast In Place Trench Drain Forming System



MHD[®] & XHD[®] Bar Lock Installation Guide



P.O. Box 837 - 259 Murdock Road - Troutman, NC 28166 Tel (704) 528-9806 - Fax (704) 528-5478 - www.abtdrains.com Toll free in the USA, Canada, and Mexico (800) 438-6057

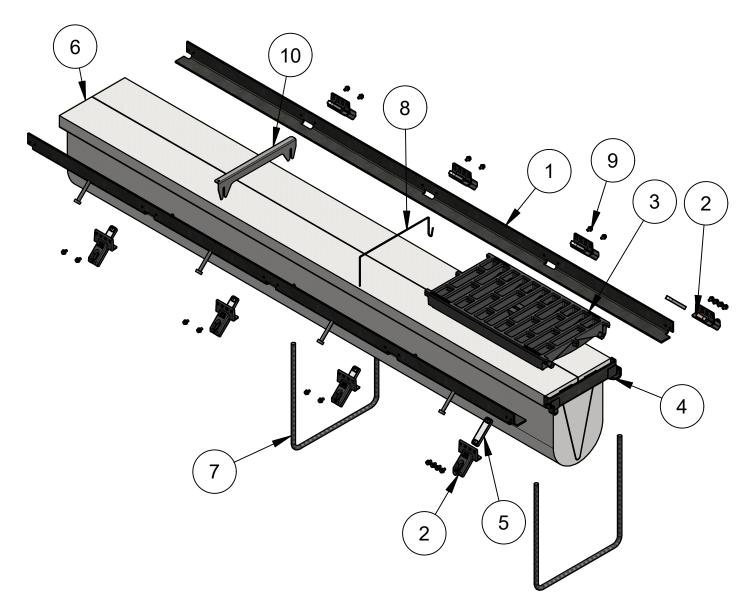
USEFUL OR REQUIRED TOOLS



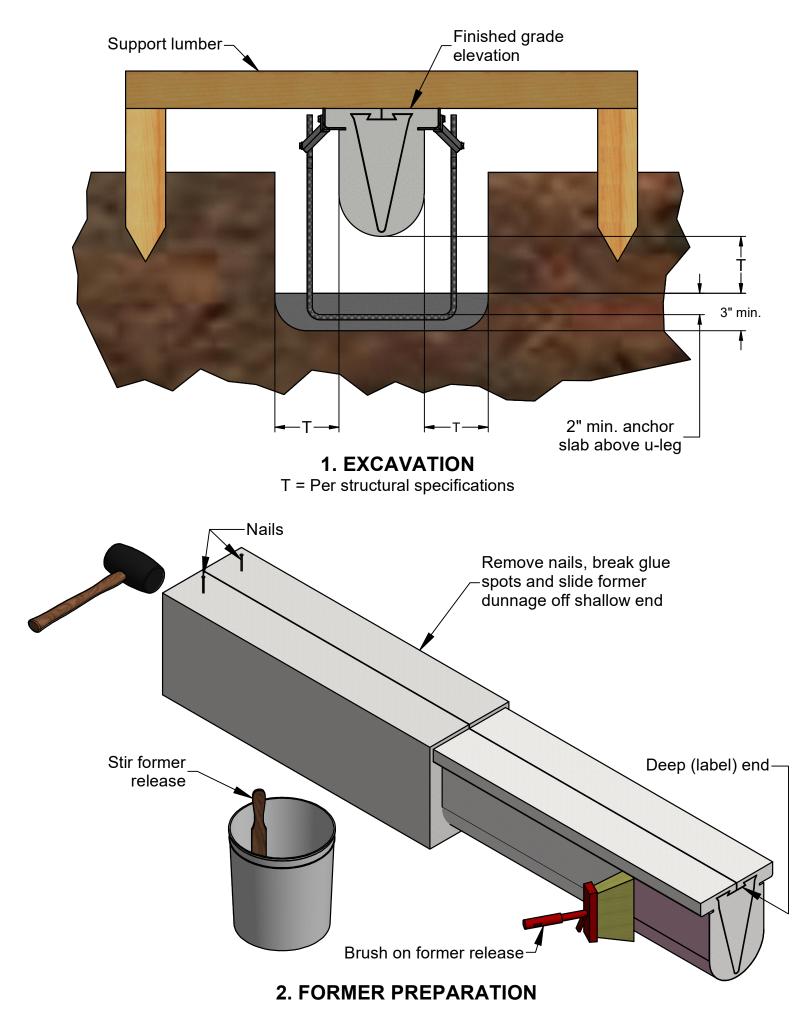
Some products sold by ABT contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Products sold by ABT may contain these chemicals in a smaller amount than Proposition 65's concern, or not at all, however, we have chosen to issue this warning on all of our products as an act of caution and because our customers have the right to know.

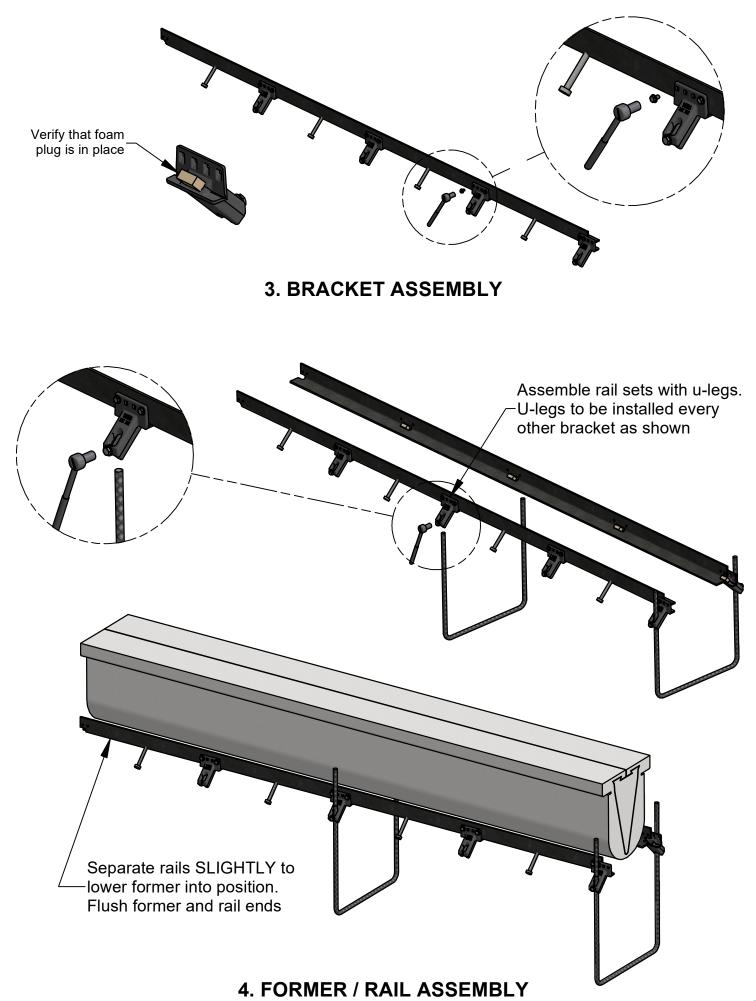
WARNING: These products can expose you to chemicals such as nickel, lead, chromium, cobalt, styrene, methylene chloride, or silica, which are
known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

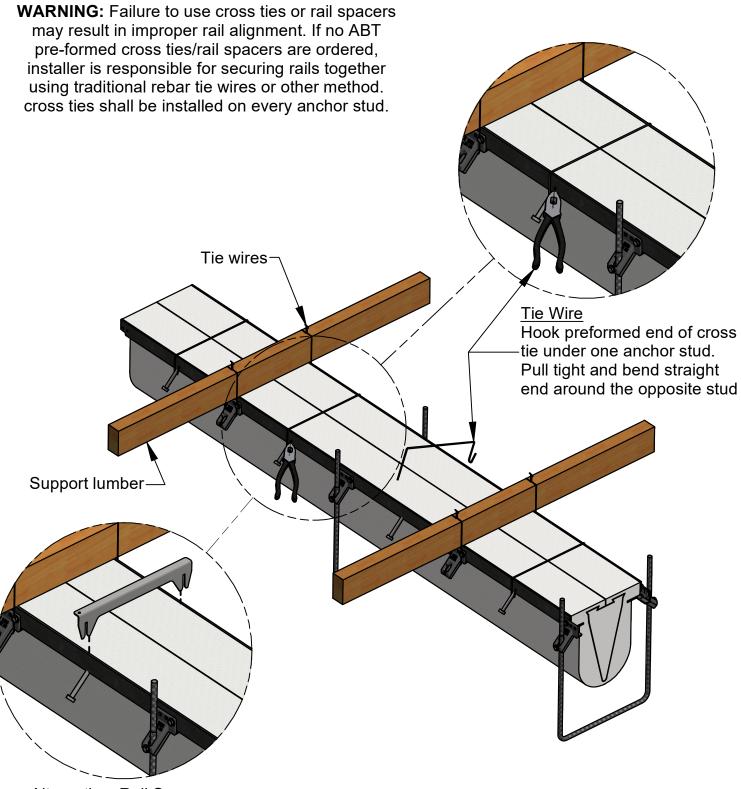
COMPONENT IDENTIFICATION



| COMPONENTS | |
|------------|--|
| ITEM | DESCRIPTION |
| 1 | ANGLE FRAME / RAIL |
| 2 | 1806 BRACKET WITH FOAM HOLE PLUG AND 5/16" SCREW |
| 3 | GRATE |
| 4 | END RAIL |
| 5 | LOCK BAR |
| 6 | EPS FORMER |
| 7 | REBAR U-LEG |
| 8 | CROSS TIE |
| 9 | Ø1/4"-20 THREAD FORMING SCREW |
| 10 | RAIL SPACER (OPTIONAL UPGRADE) |







Alternative: Rail Spacer

5. SUPPORT LUMBER ATTACH & ALIGNMENT

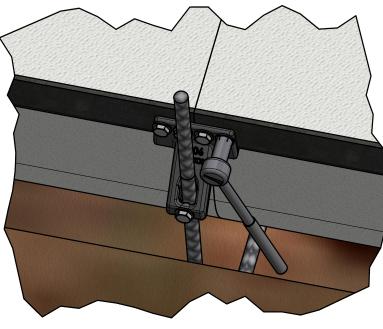
Locate and drive grade stakes where needed

Inlet and outlet piping: Imbed end of pipe into former to locate and seal pipe. Remove excess pipe in trench after deforming.

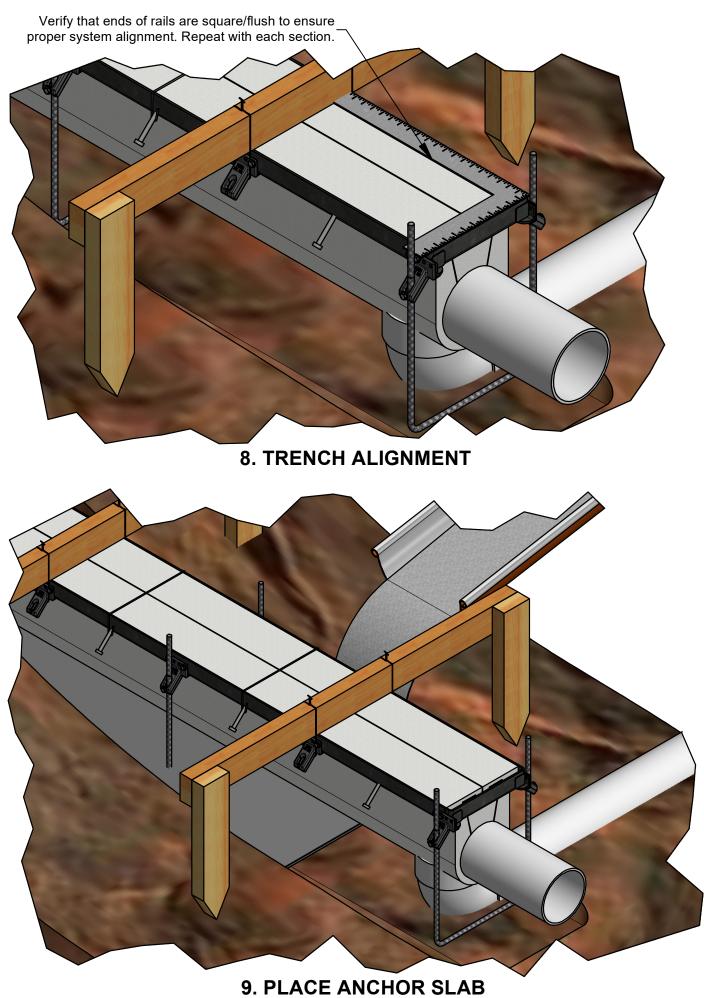
End frame

Align and set section to grade. Secure to grade stakes └–Grade stake

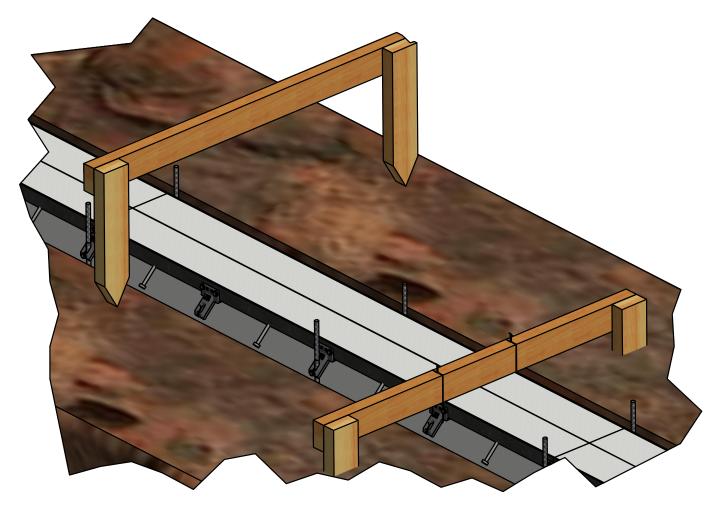
6. SECTION PLACEMENT
 Locate and align outlet channel first.
 Start at deep end and work to shallow end.



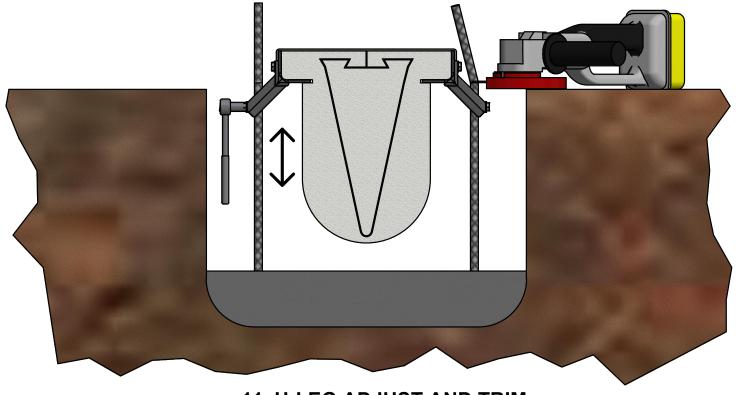
7. RAIL CONNECTION



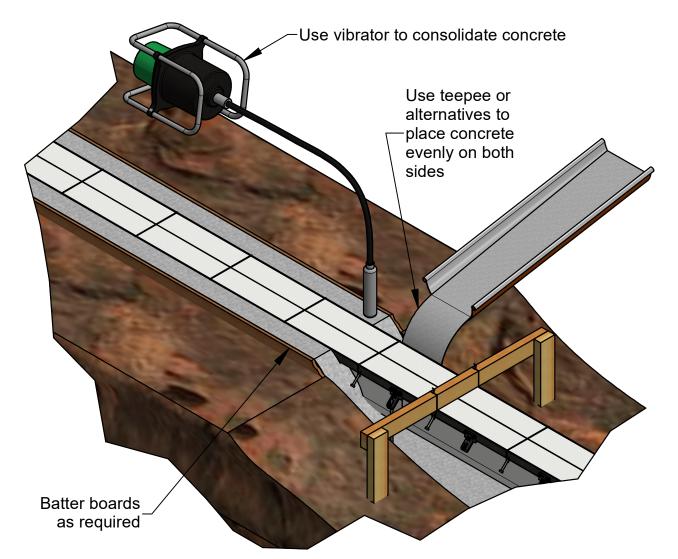
See Step 1 for dimensions



10. REMOVE SUPPORT LUMBER

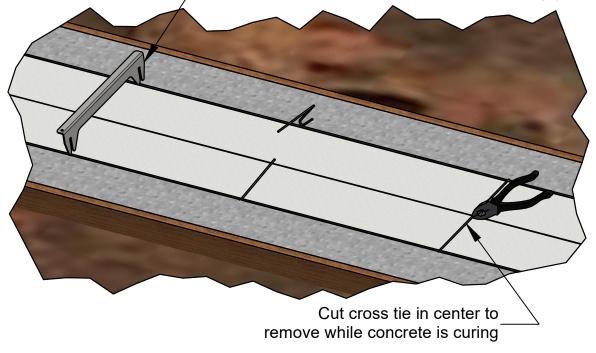


11. U-LEG ADJUST AND TRIM

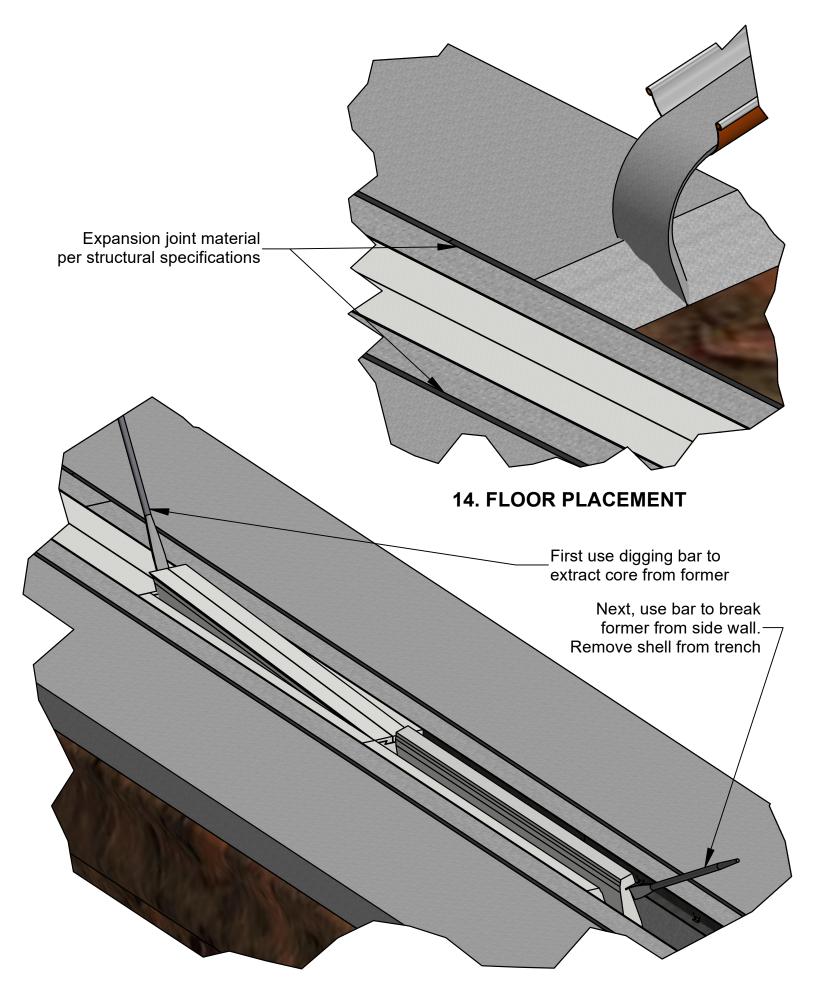


12. ENCAPSULATION CONCRETE PLACEMENT AND CONSOLIDTION

-Remove rail spacers while concrete is curing (if applicable)

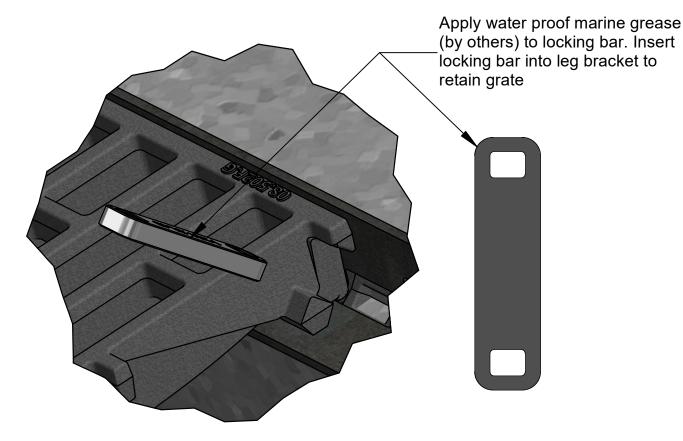


13. CROSS TIE / SPACER REMOVAL

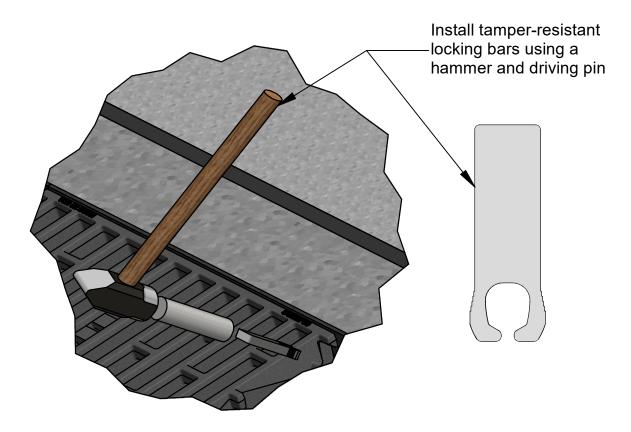




16. GRATE PLACEMENT

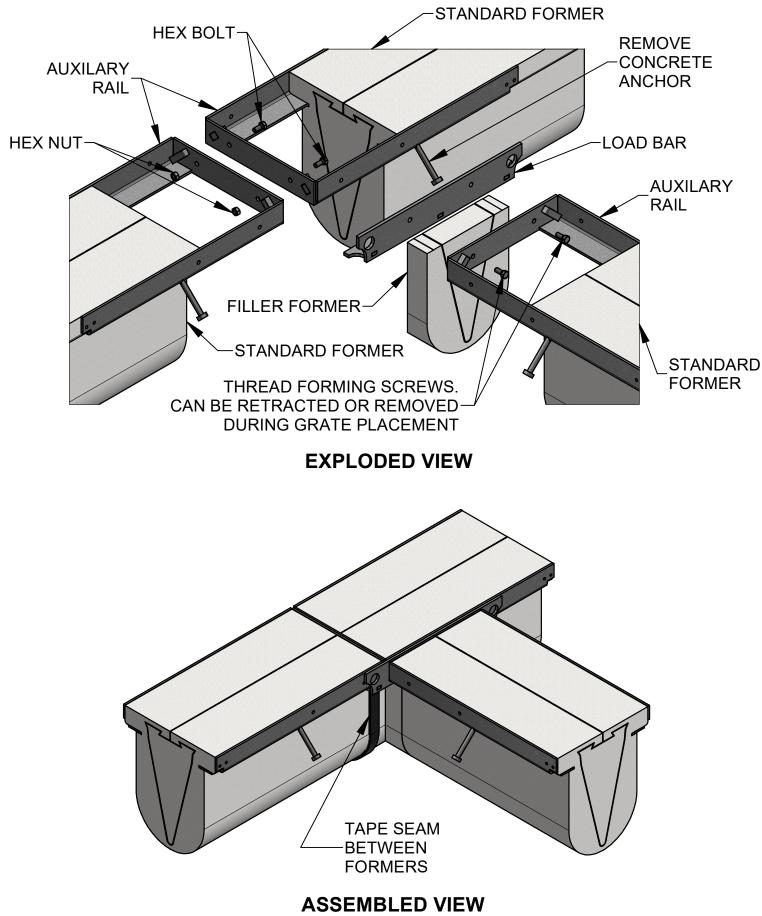


17(a) BAR LOCK INSTALLATION - STANDARD BAR

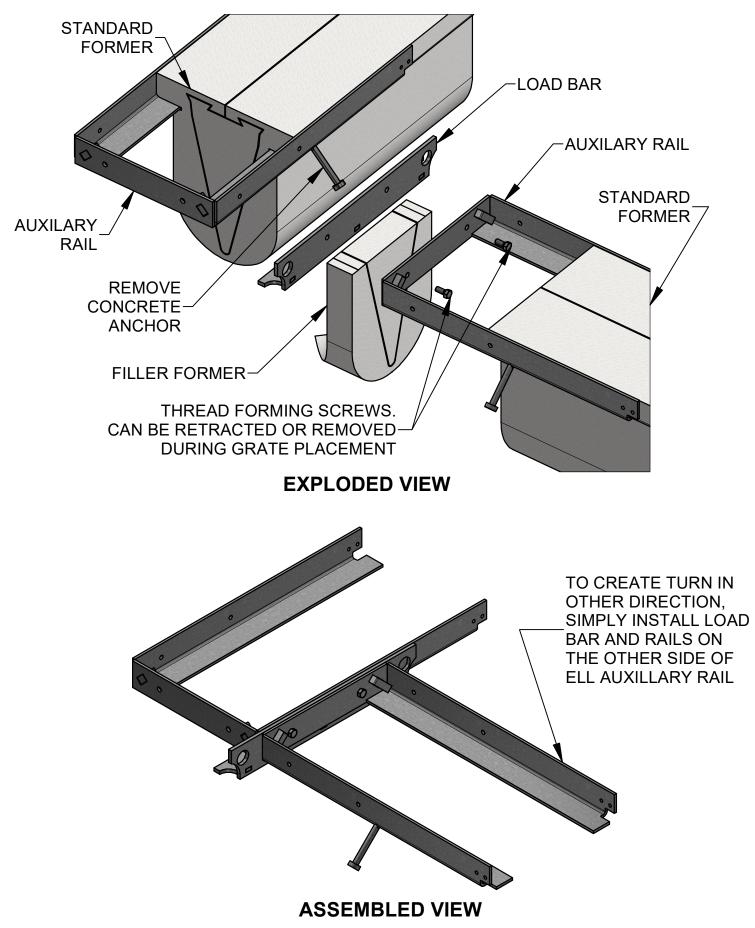


17(b) BAR LOCK INSTALLATION - TAMPER RESISTANT BAR OPTION

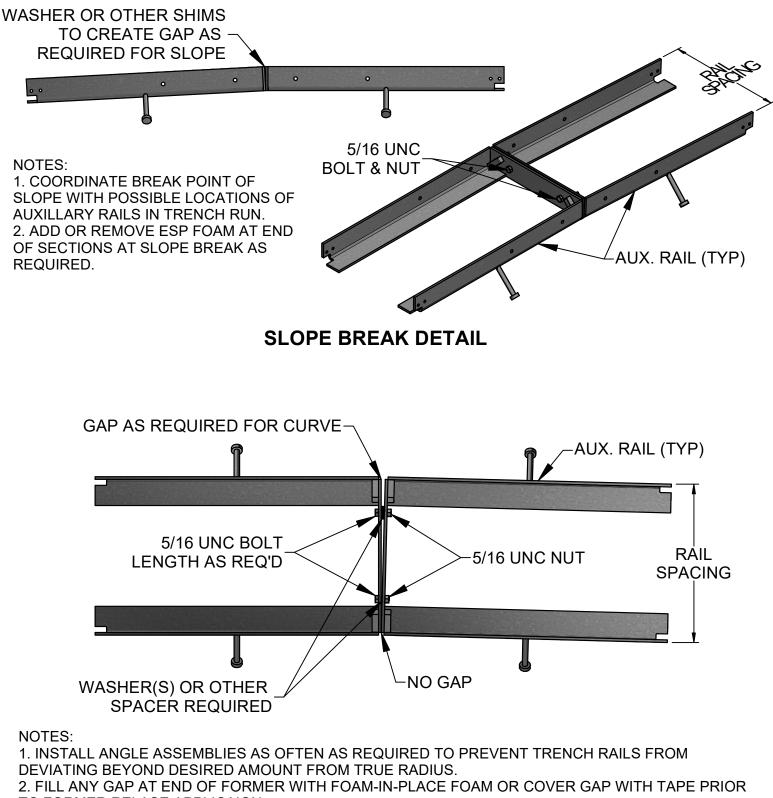
AUXILIARY RAIL USAGE - "TEE"



AUXILIARY RAIL USAGE - "ELL"



AUXILIARY RAIL USAGE - SLOPE AND SWEEPS



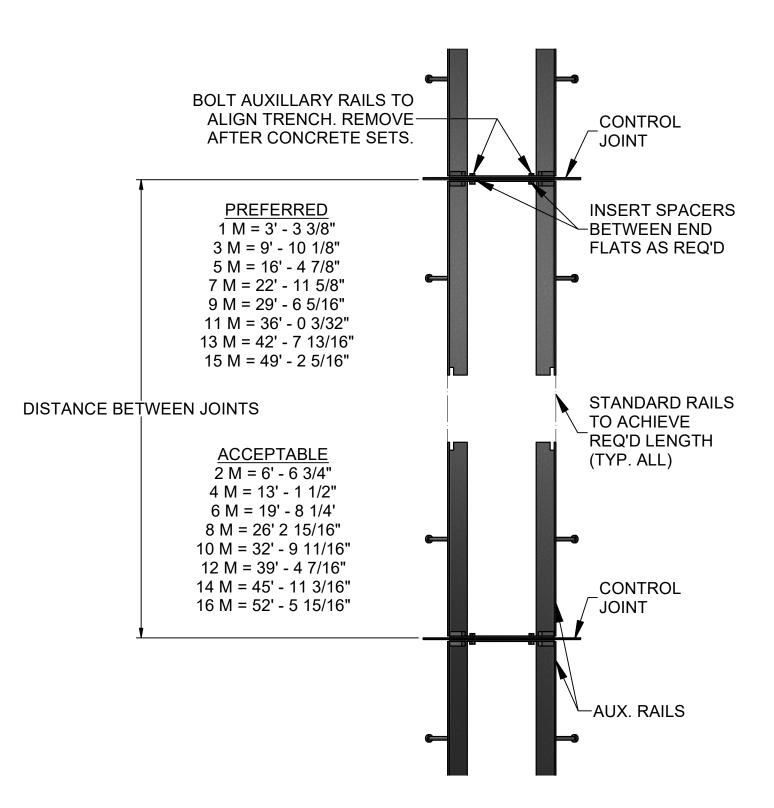
TO FORMER RELASE APPLICAION.

3. CALCULATE GAP PER ASSEMBLY IS AS FOLLOWS:

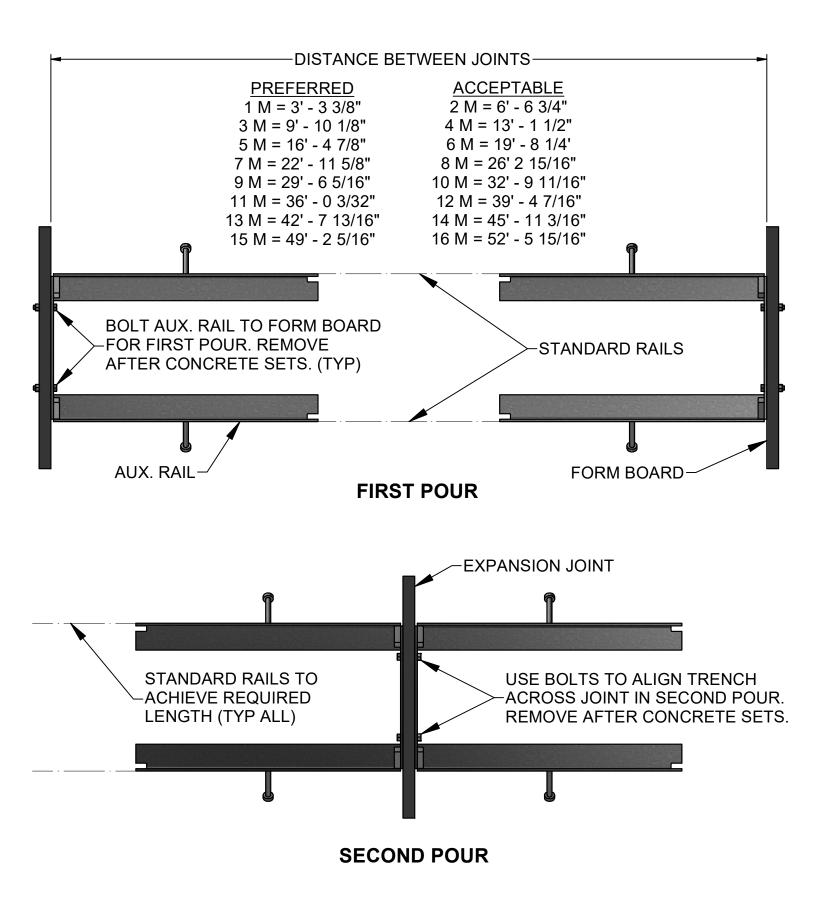
GAP (INCH) = SPACING BETWEEN ANGLE ASSEMBLIES (INCH) * RAIL SPACING (INCH) / CURVE RAIDUS (INCH).

SWEEP DETAIL

AUXILIARY RAIL USAGE - CONTROL JOINTS



AUXILIARY RAIL USAGE - EXPANSION JOINTS



NOTES



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