# Trench Former®

Pre-Engineered Cast In Place Trench Drain Forming System



# MHD® & XHD® Bar Lock Installation Guide



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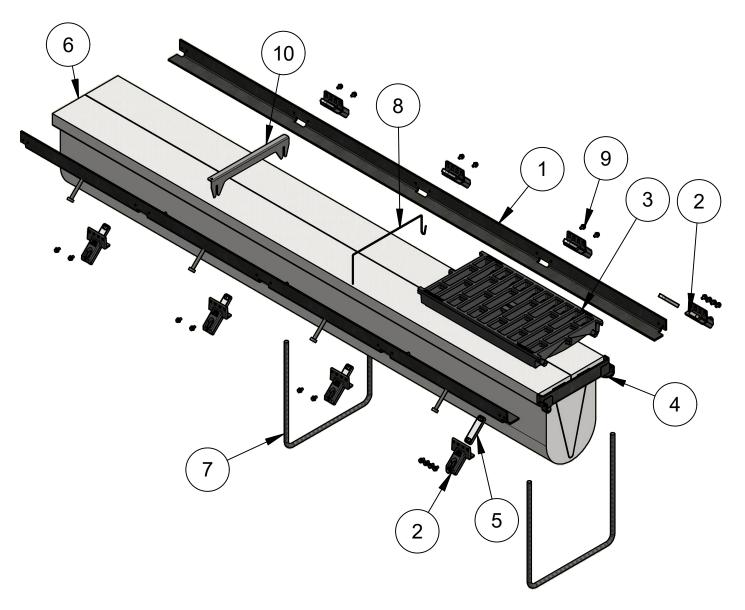
# **USEFUL OR REQUIRED TOOLS**



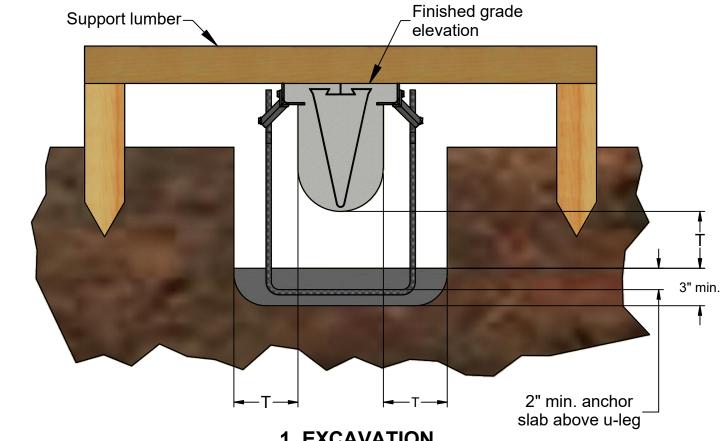
Some products sold by ABT contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Products sold by ABT may contain these chemicals in a smaller amount than Proposition 65's concern, or not at all, however, we have chosen to issue this warning on all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

MARNING: 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**

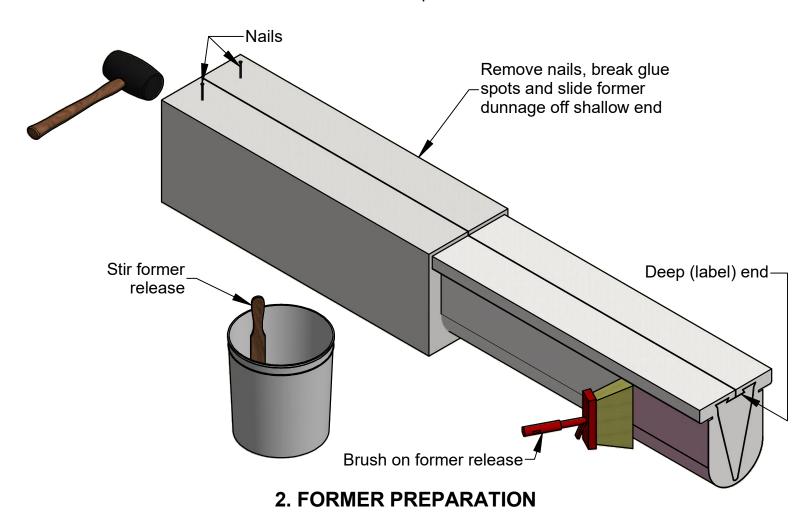


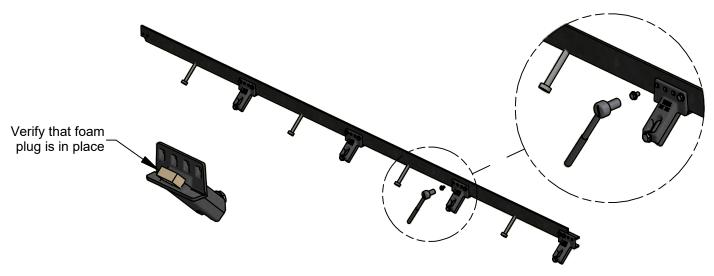
COMPONENTS	
ITEM	DESCRIPTION
1	ANGLE FRAME / RAIL
2	1806 BRACKET WITH FOAM HOLE PLUG AND 5/16" SCREW
3	GRATE
4	END RAIL
5	LOCK BAR
6	EPS FORMER
7	REBAR U-LEG
8	CROSS TIE
9	Ø1/4"-20 THREAD FORMING SCREW
10	RAIL SPACER (OPTIONAL UPGRADE)



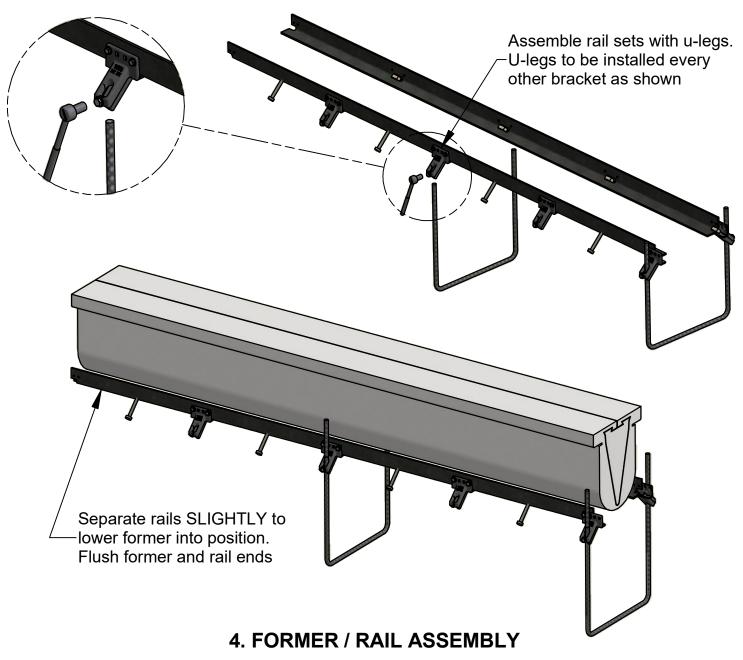
1. EXCAVATION

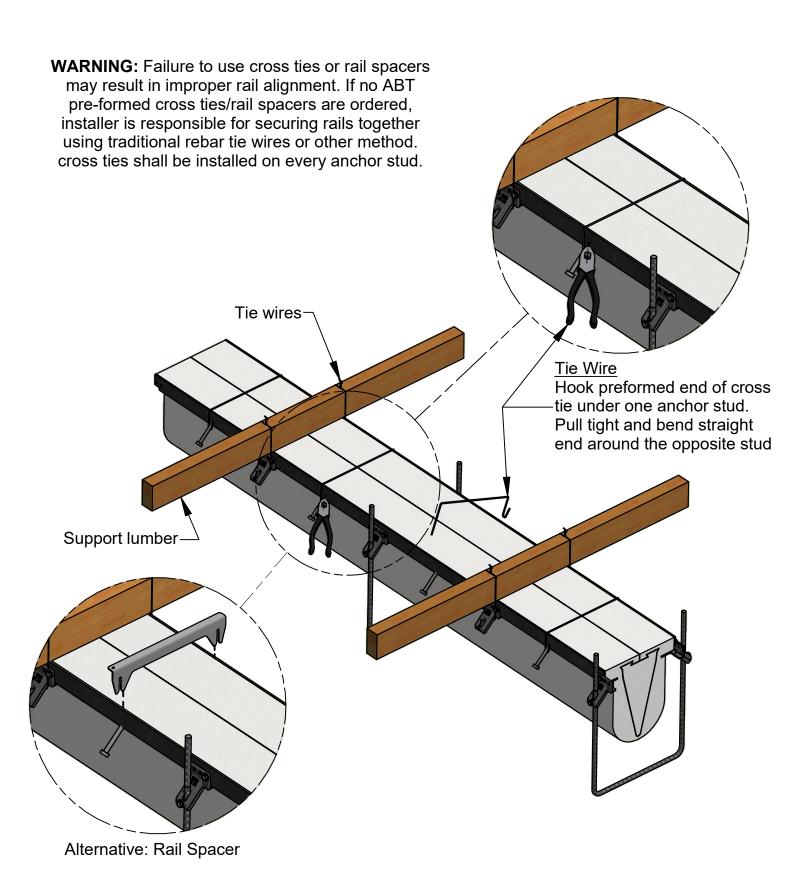
T = Per structural specifications



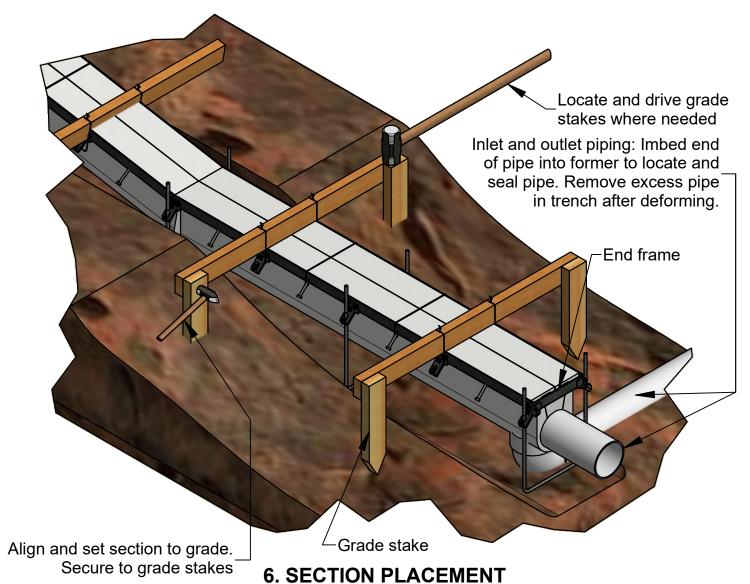


#### 3. BRACKET ASSEMBLY

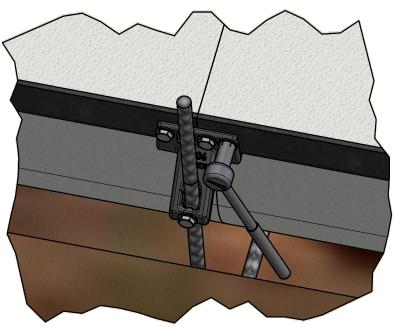




#### 5. SUPPORT LUMBER ATTACH & ALIGNMENT

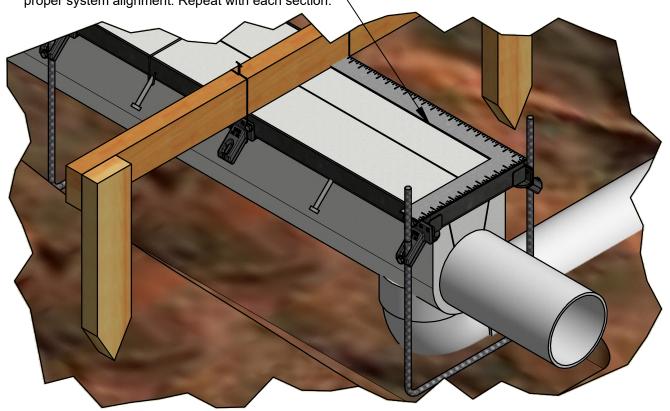


Locate and align outlet channel first.
Start at deep end and work to shallow end.

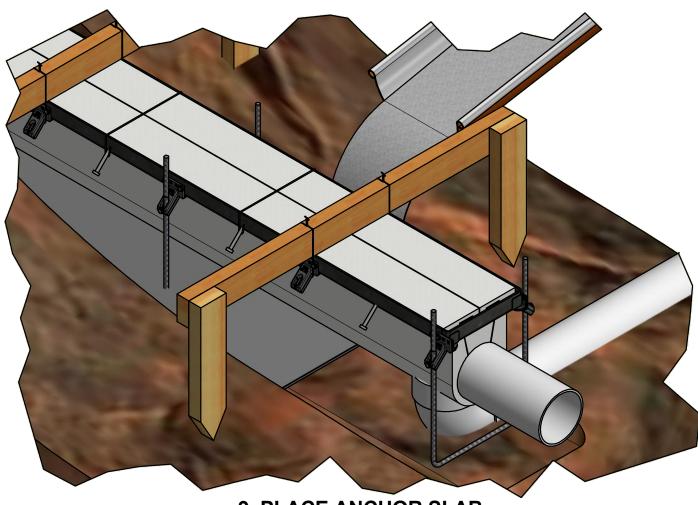


7. RAIL CONNECTION

Verify that ends of rails are square/flush to ensure proper system alignment. Repeat with each section.

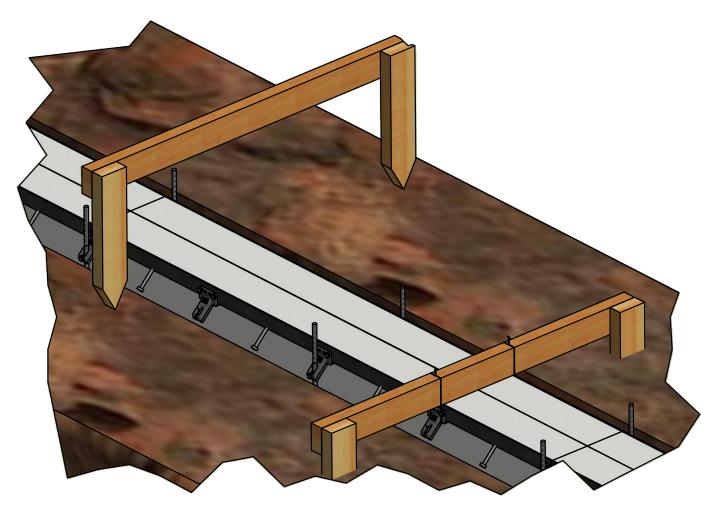


## 8. TRENCH ALIGNMENT

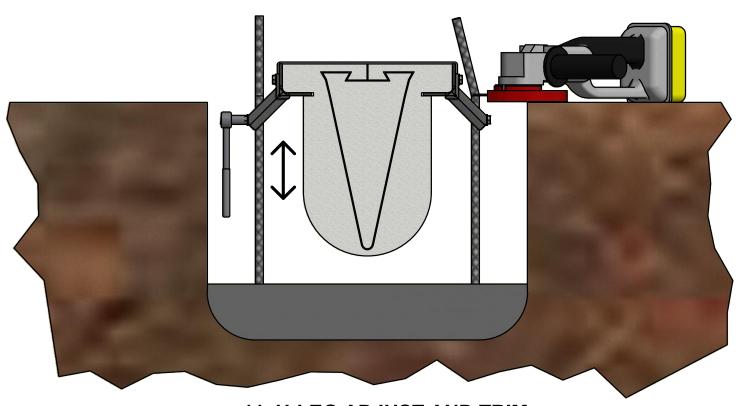


9. PLACE ANCHOR SLAB

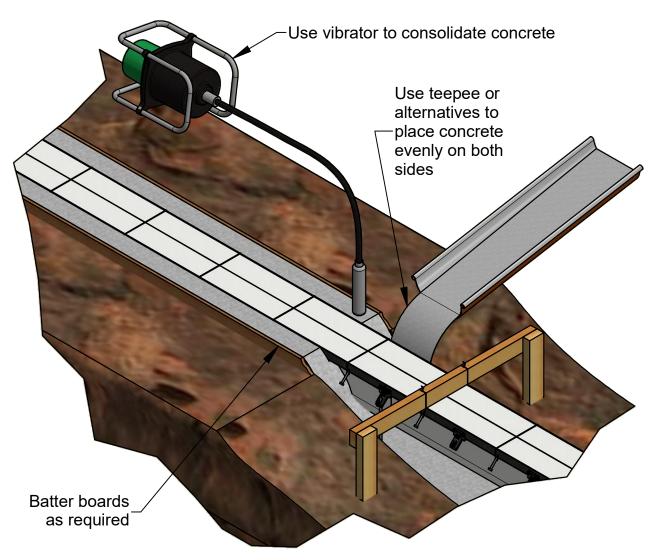
See Step 1 for dimensions



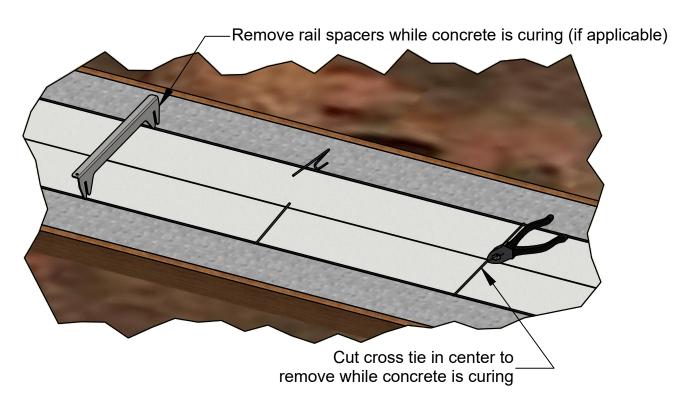
**10. REMOVE SUPPORT LUMBER** 



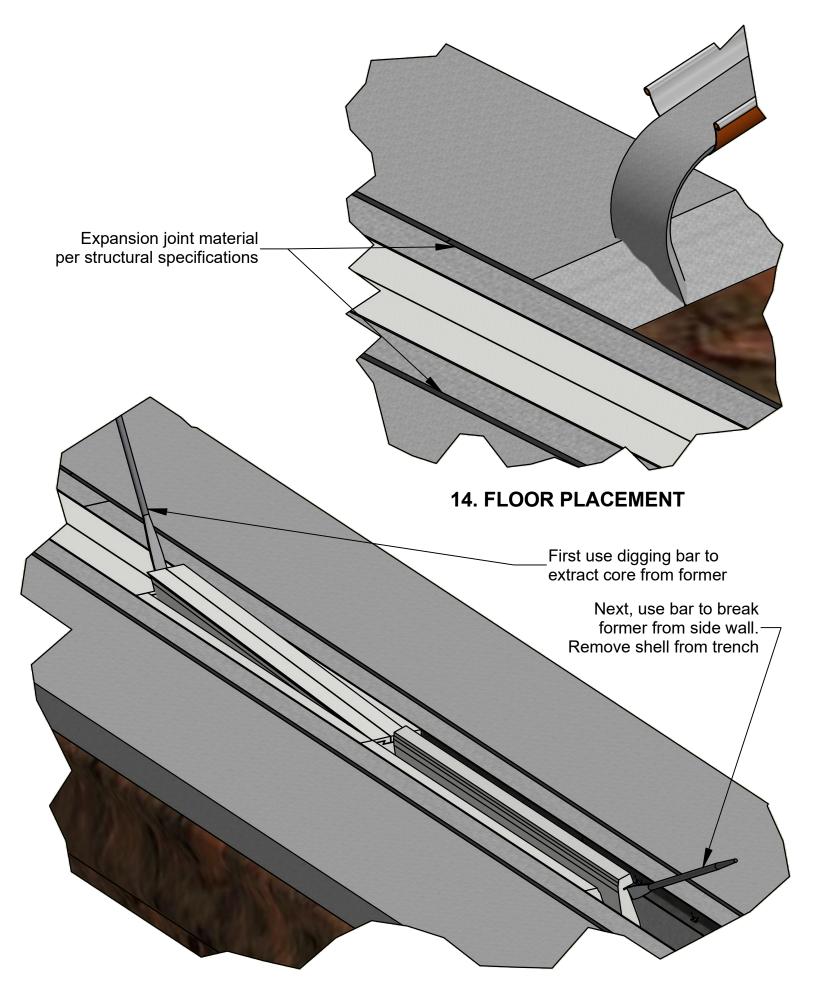
11. U-LEG ADJUST AND TRIM



#### 12. ENCAPSULATION CONCRETE PLACEMENT AND CONSOLIDTION



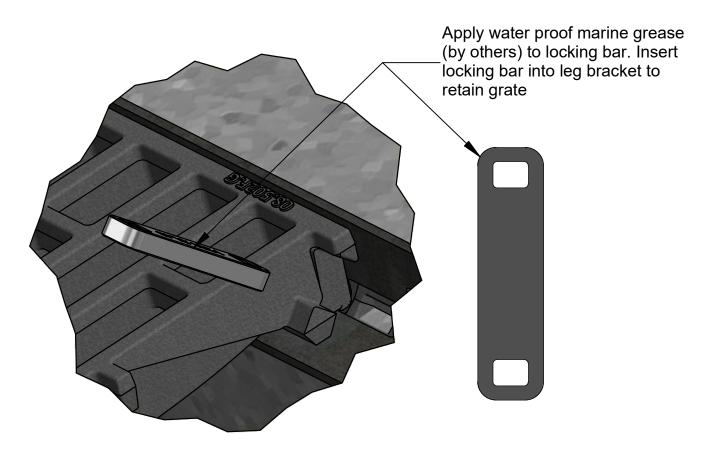
13. CROSS TIE / SPACER REMOVAL



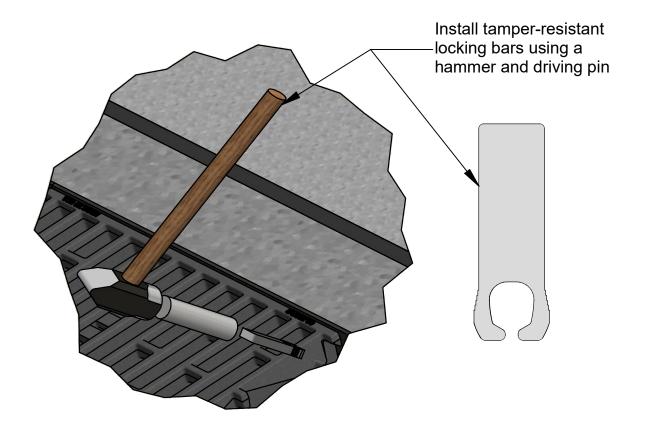
15. FORMER REMOVAL



**16. GRATE PLACEMENT** 

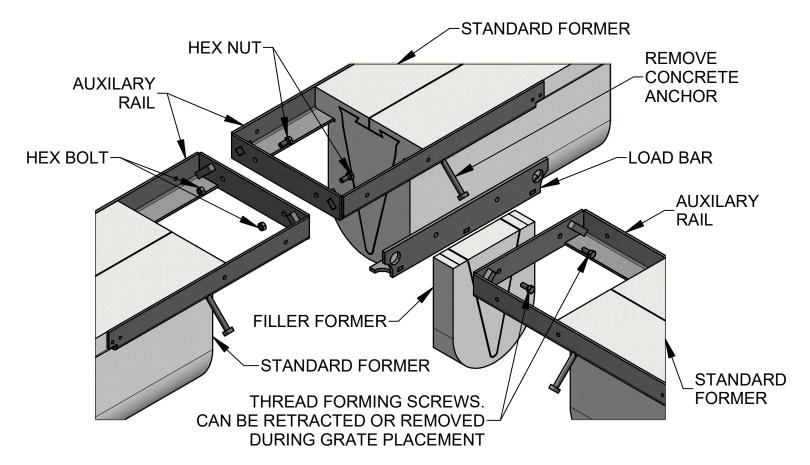


17(a) BAR LOCK INSTALLATION - STANDARD BAR

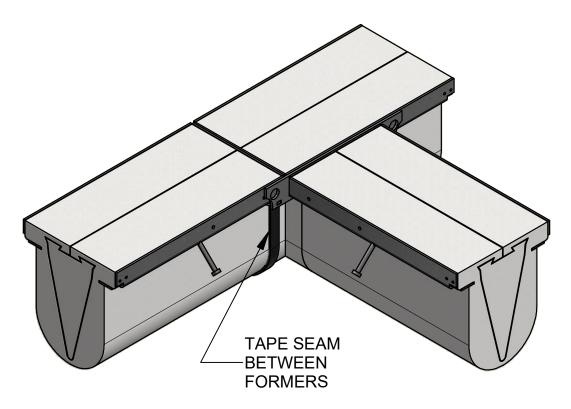


17(b) BAR LOCK INSTALLATION - TAMPER RESISTANT BAR OPTION

# **AUXILIARY RAIL USAGE - "TEE"**

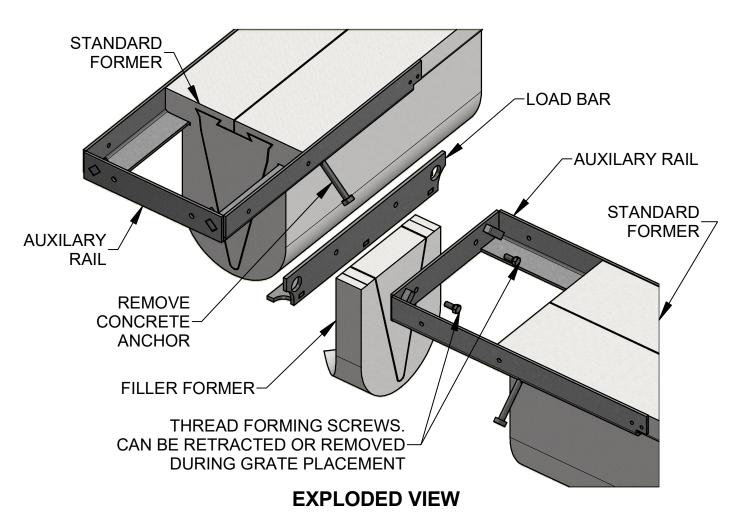


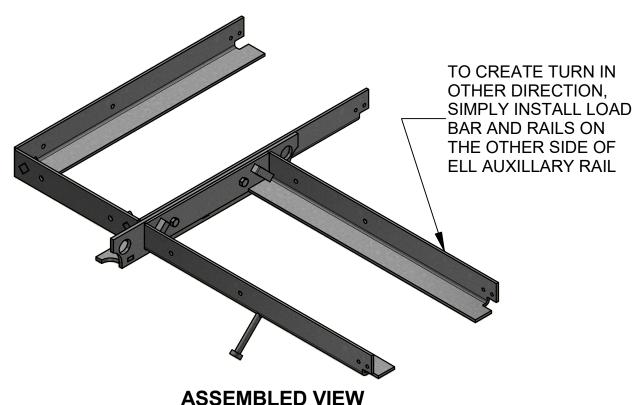
#### **EXPLODED VIEW**



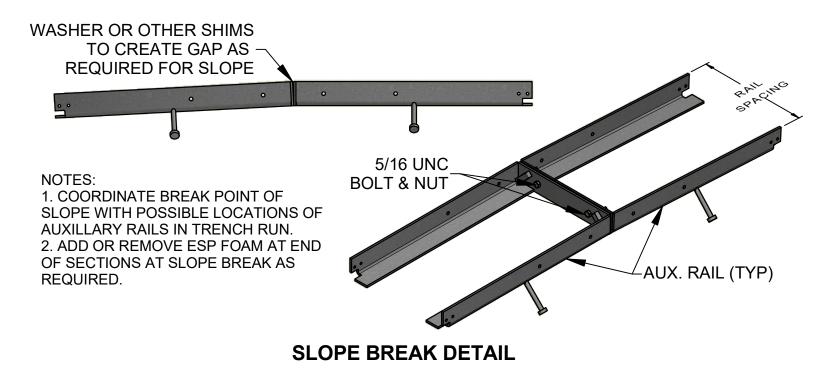
**ASSEMBLED VIEW** 

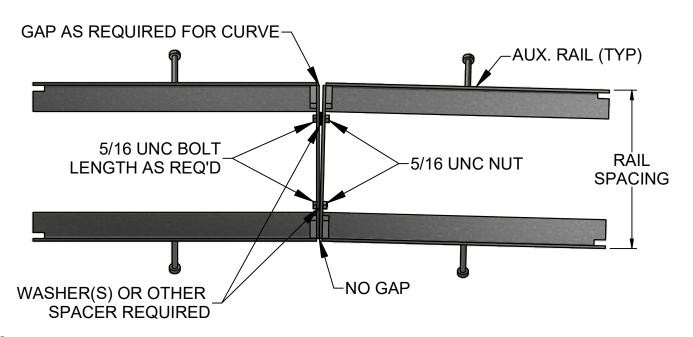
# **AUXILIARY RAIL USAGE - "ELL"**





### **AUXILIARY RAIL USAGE - SLOPE AND SWEEPS**





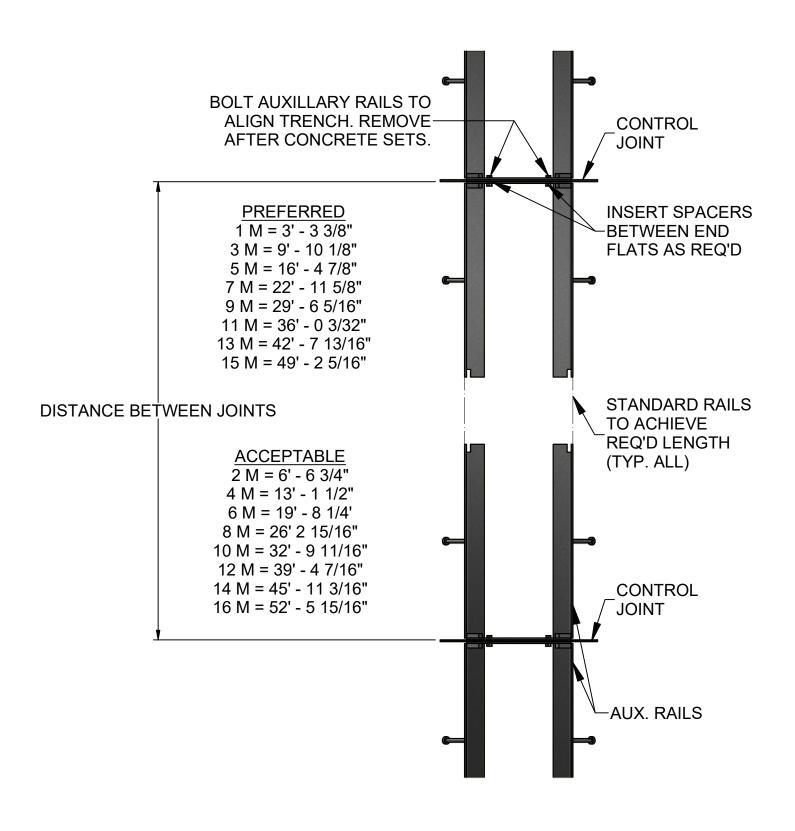
#### NOTES:

- 1. INSTALL ANGLE ASSEMBLIES AS OFTEN AS REQUIRED TO PREVENT TRENCH RAILS FROM DEVIATING BEYOND DESIRED AMOUNT FROM TRUE RADIUS.
- 2. FILL ANY GAP AT END OF FORMER WITH FOAM-IN-PLACE FOAM OR COVER GAP WITH TAPE PRIOR TO FORMER RELASE APPLICAION.
- 3. CALCULATE GAP PER ASSEMBLY IS AS FOLLOWS:

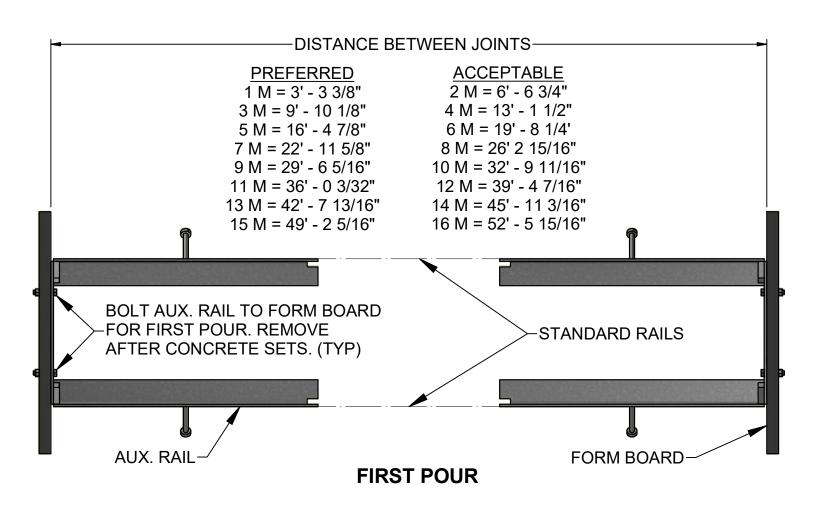
GAP (INCH) = SPACING BETWEEN ANGLE ASSEMBLIES (INCH) \* RAIL SPACING (INCH) / CURVE RAIDUS (INCH).

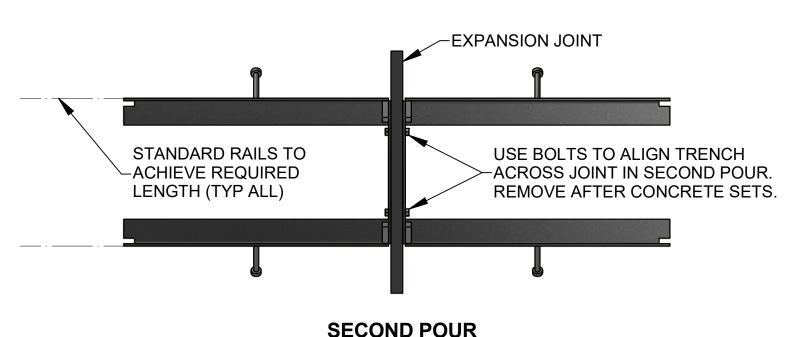
#### **SWEEP DETAIL**

## **AUXILIARY RAIL USAGE - CONTROL JOINTS**



## **AUXILIARY RAIL USAGE - EXPANSION JOINTS**





# **NOTES**











