

# TRENCH FORMER<sup>®</sup> TFX<sup>®</sup> - PIN LOCK

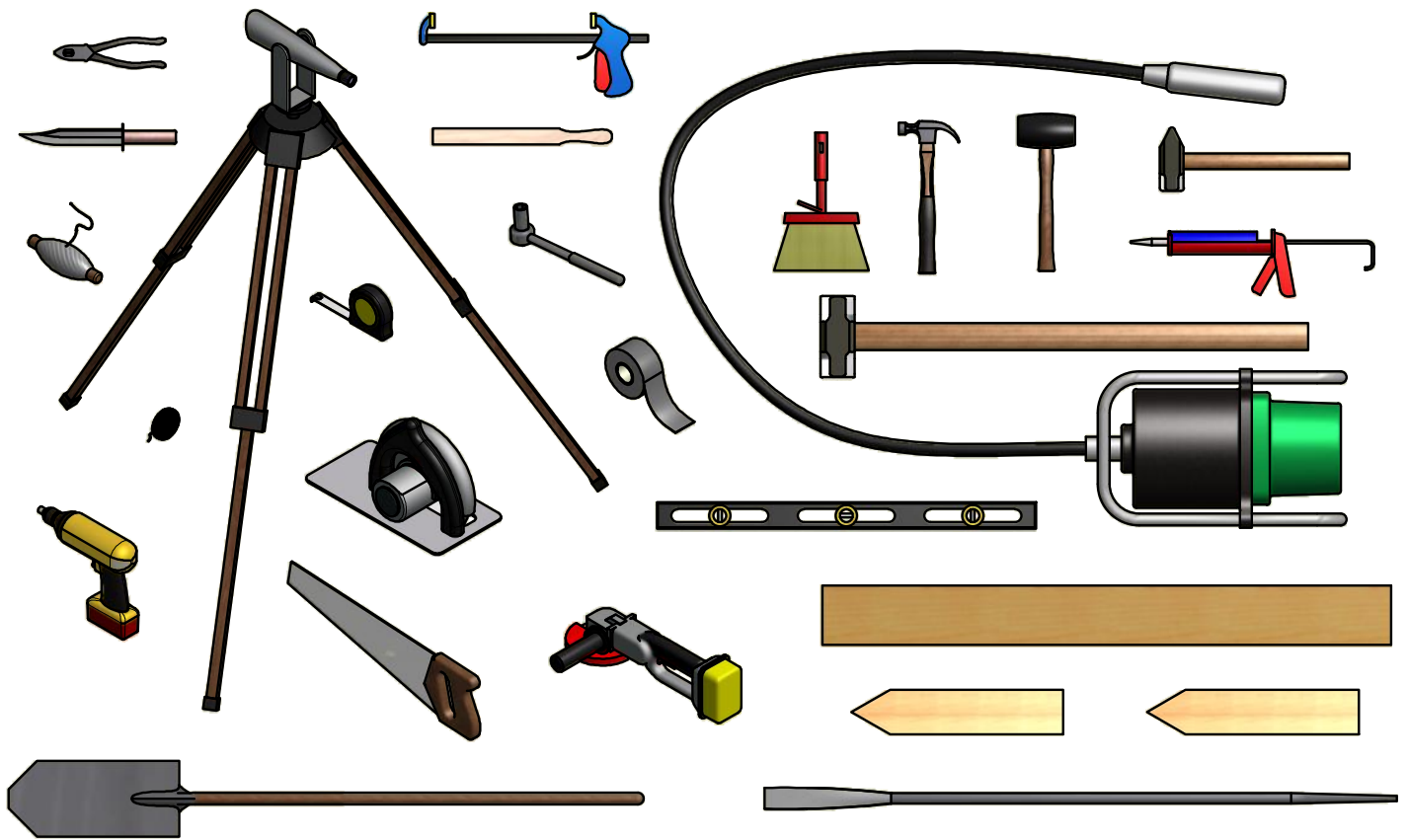
# INSTALLATION GUIDE

**ABT<sup>®</sup>, INC.**

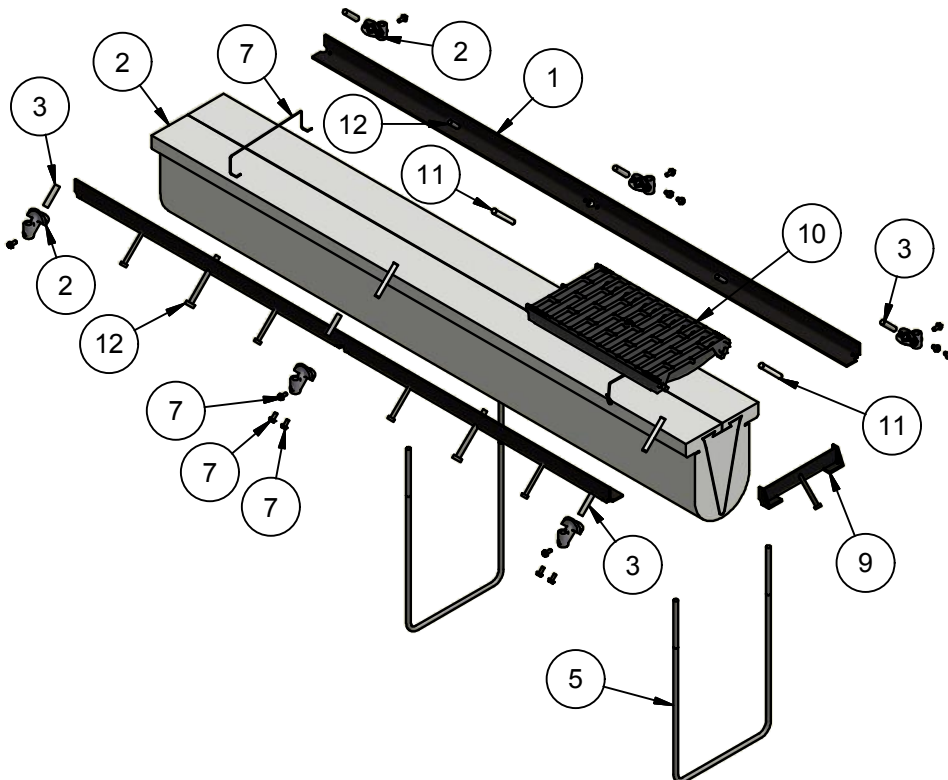
Advanced Building Technologies, Inc.



# USEFUL OR REQUIRED TOOLS

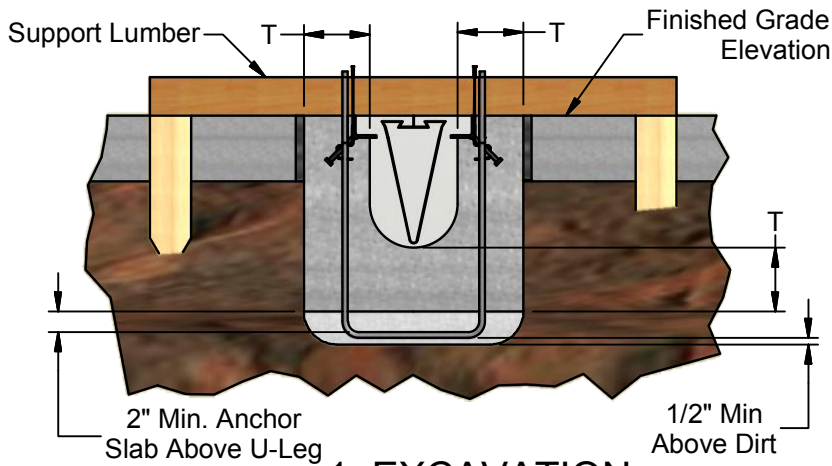


# COMPONENT IDENTIFICATION



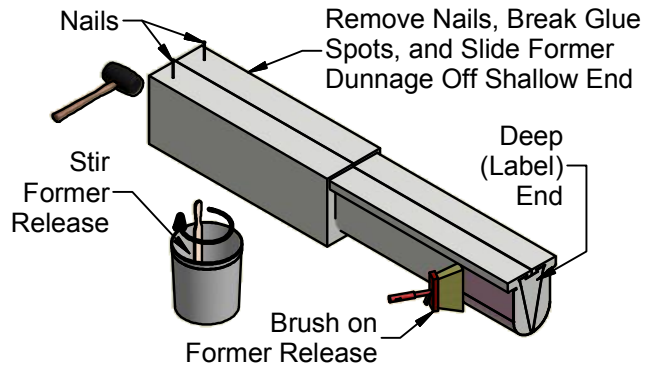
COMPONENTS	
ITEM	DESCRIPTION
1	Angle Frames/Rail
2	1803 Cast Leg Bracket
3	1803 Leg Bracket Foam Hole Plug
4	EPS Former
5	Rebar U-Leg
6	Leg Lock Screw
7	Thread Forming Screw - Ø5/16" x 7/8"
8	Cross Tie Wire
9	End Rail
10	Grate
11	Grate Lock Pins - Ø1/2" Clevis Pins
12	Fixed Lock Pin - Ø1/2" Concrete Anchor

# INSTALLATION INSTRUCTIONS MHD & XHD - PIN LOCK

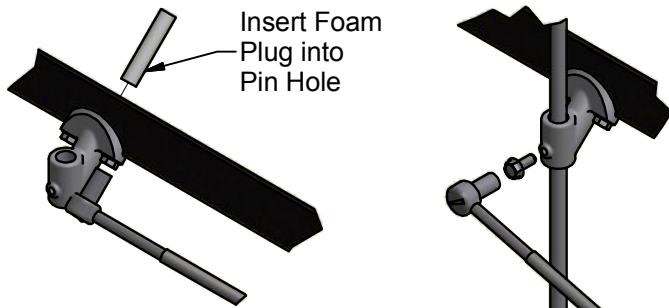


## 1. EXCAVATION

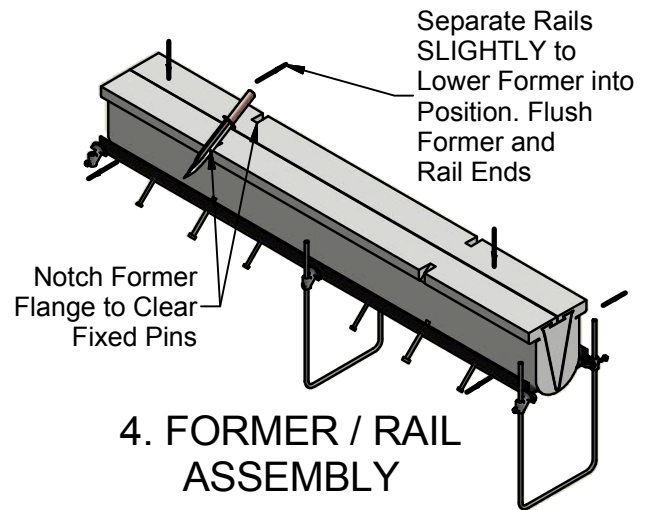
T = per Structural Specifications



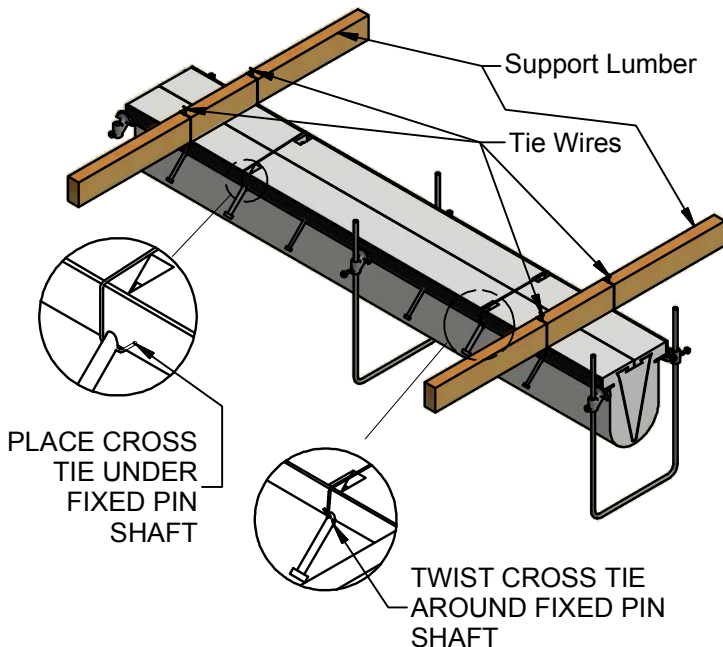
## 2. FORMER PREPARATION



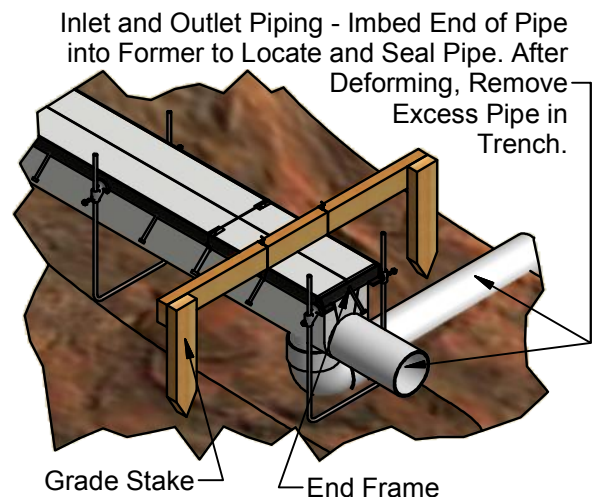
## 3. LEG ATTACH



## 4. FORMER / RAIL ASSEMBLY

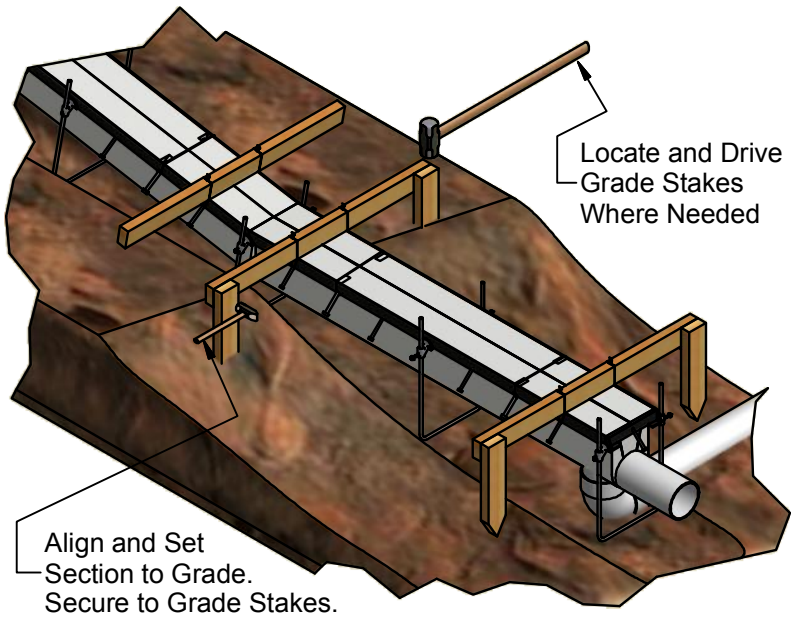


## 5. SUPPORT LUMBER ATTACH

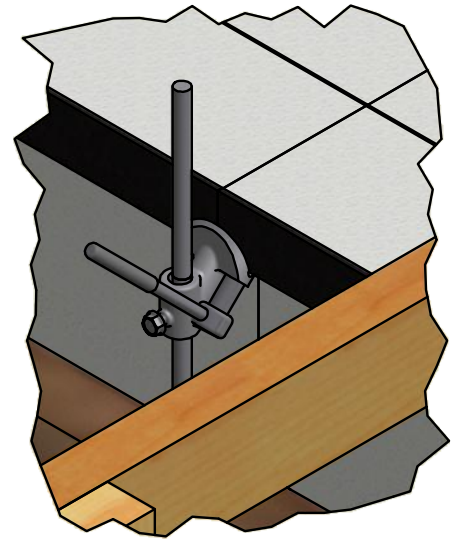


## 6. DISCHARGE PLACE & ALIGN

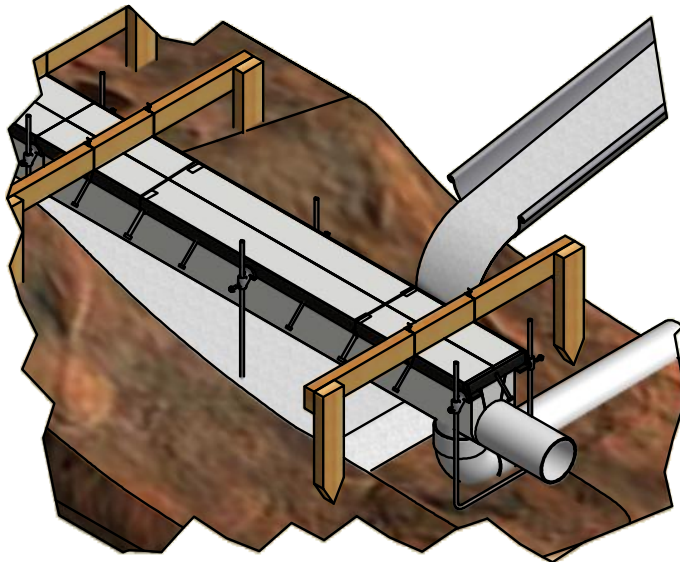
Locate and Align Outlet Channel First. Start at Deep End and Work to Shallow End



7. SECTION PLACE & ALIGN

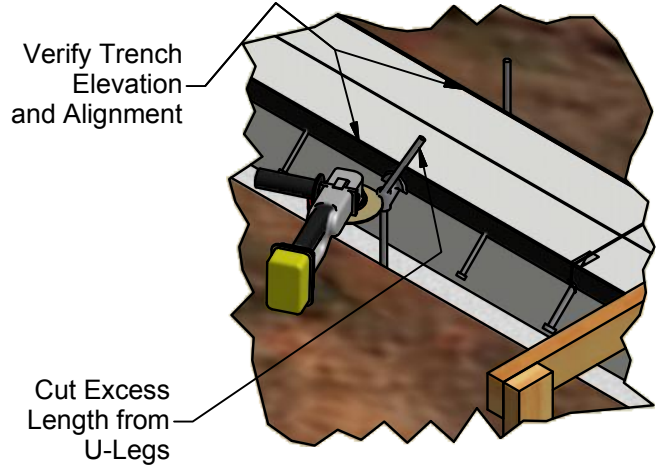


8. RAIL CONNECTION

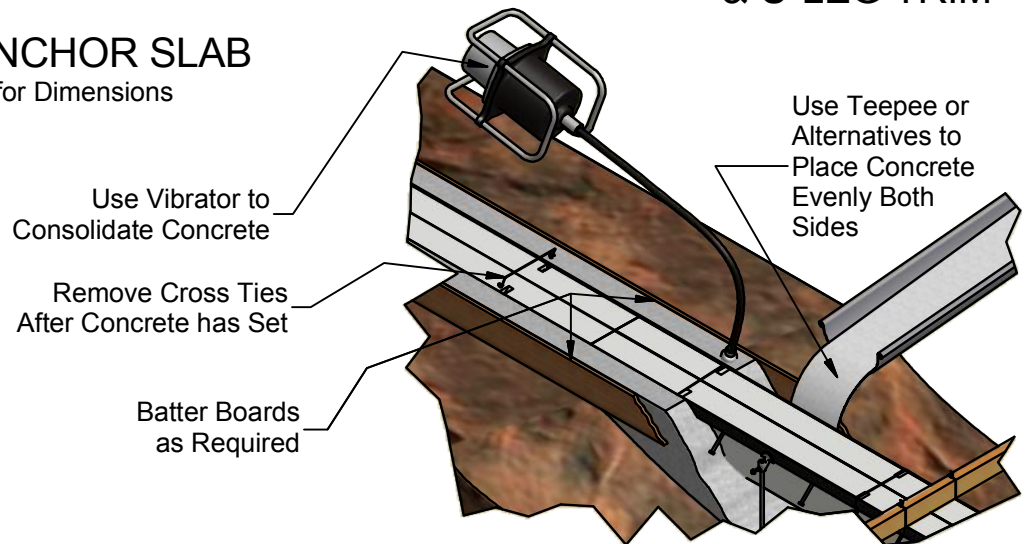


9. PLACE ANCHOR SLAB

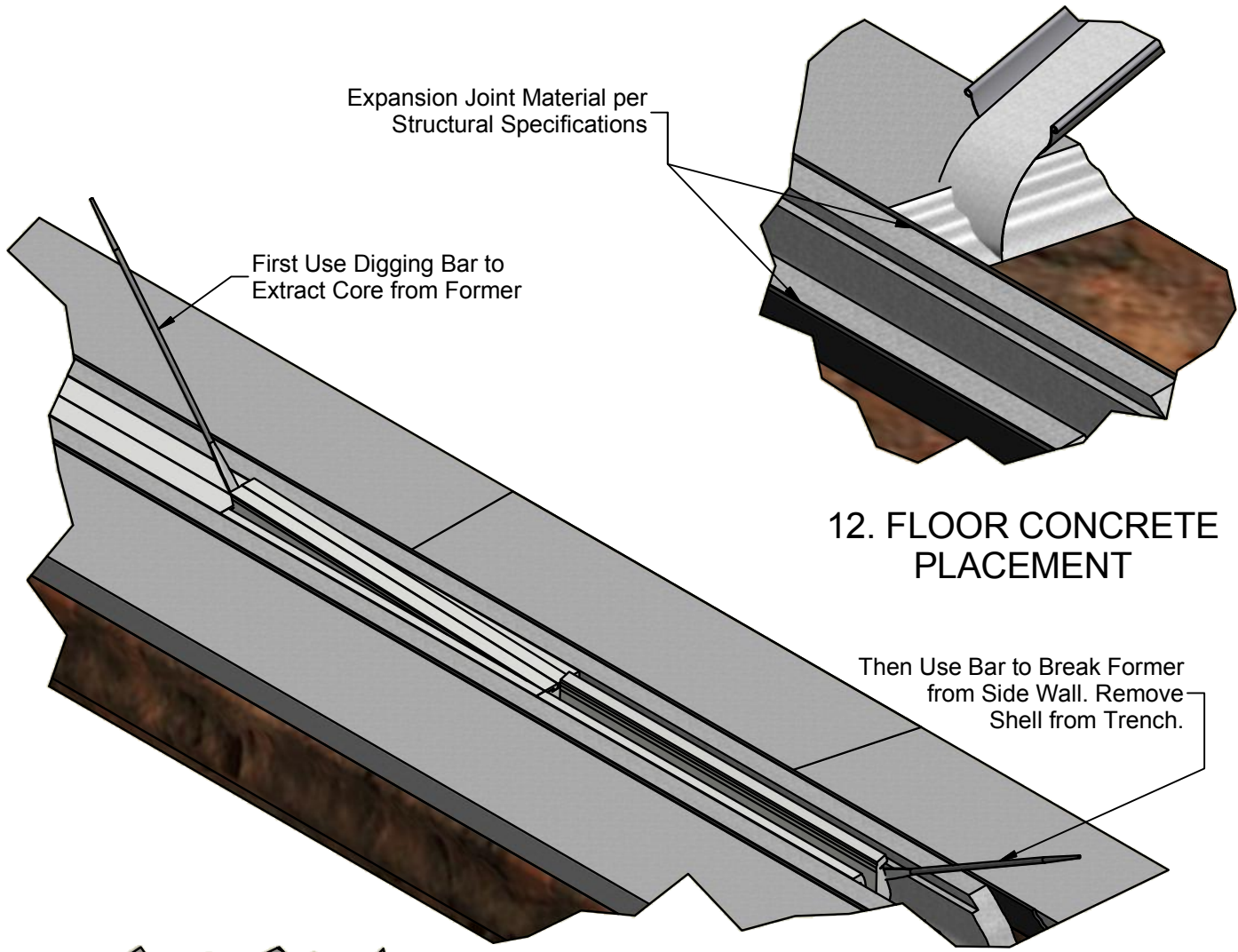
See Step 1 for Dimensions



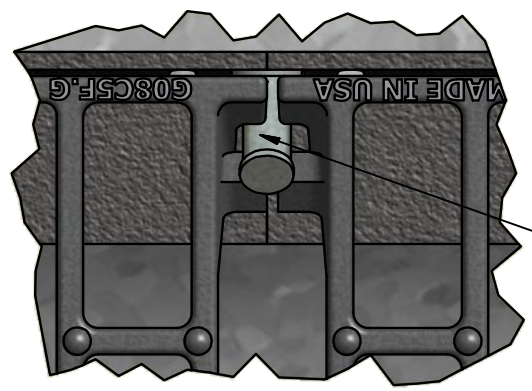
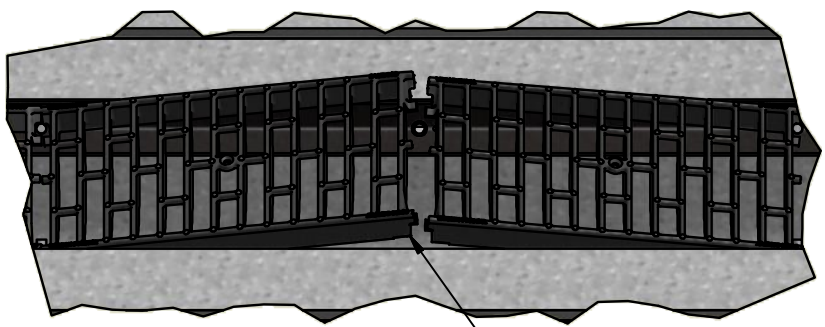
10. FINAL ALIGN & U-LEG TRIM



11. ENCAPSULATION CONCRETE PLACEMENT AND CONSOLIDATION

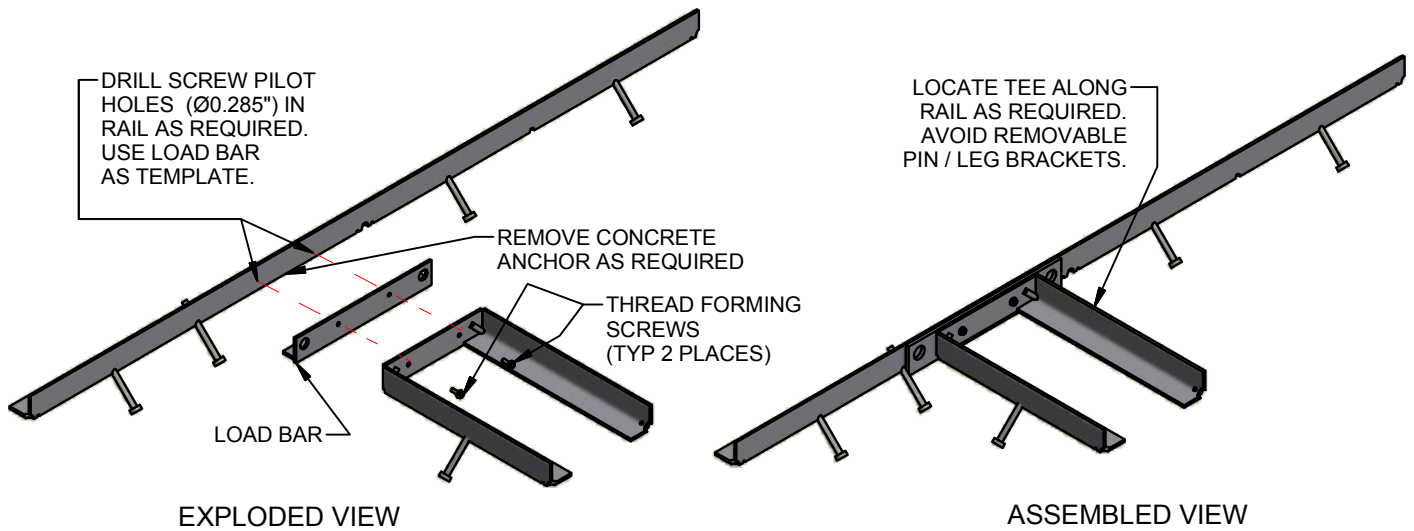


13. FORMER REMOVAL

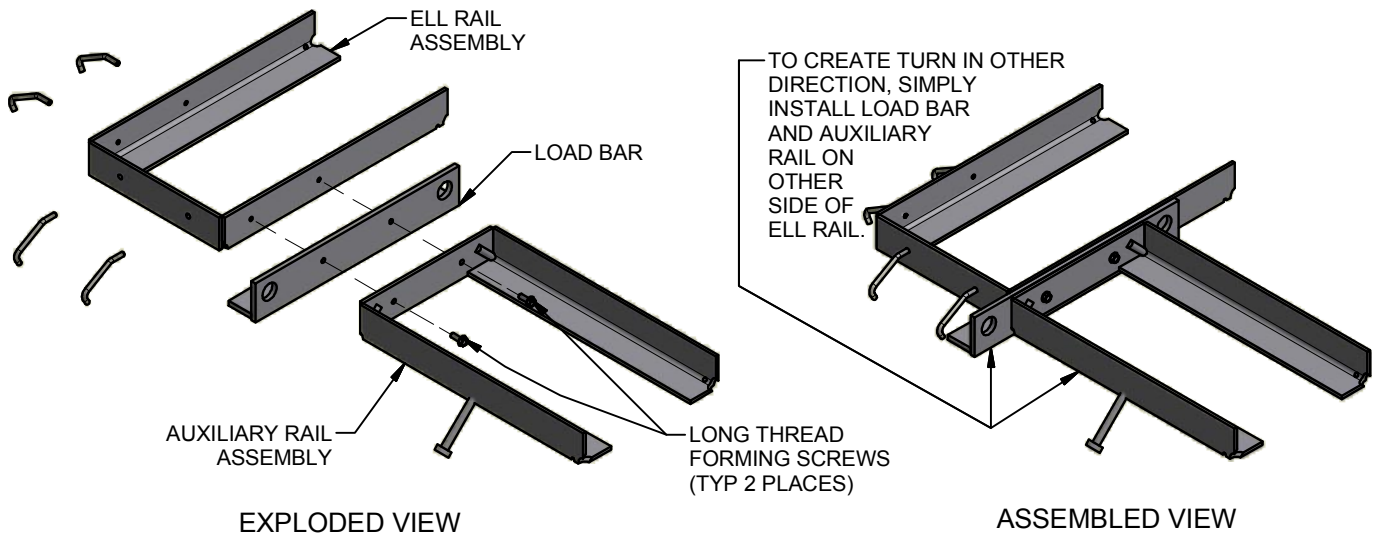


14. GRATE INSTALLATION

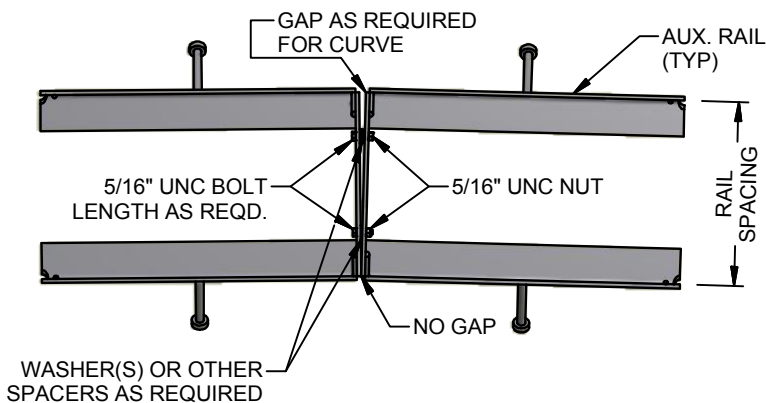
# AUXILIARY RAIL USAGE



**TEE DETAIL**



**ELL DETAIL**



**CURVE DETAIL**

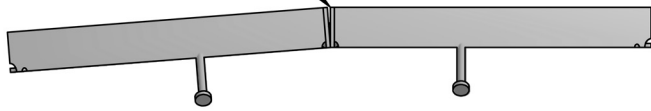
**NOTES:**

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 RELEASE APPLICATION.
3. CALCULATING GAP PER ASSEMBLY IS AS FOLLOWS:  

$$\text{GAP (INCH)} = \text{SPACING BETWEEN ANGLE ASSEMBLIES (INCH)} * \text{RAIL SPACING (INCH)} + \text{CURVE RADIUS (INCH)}$$

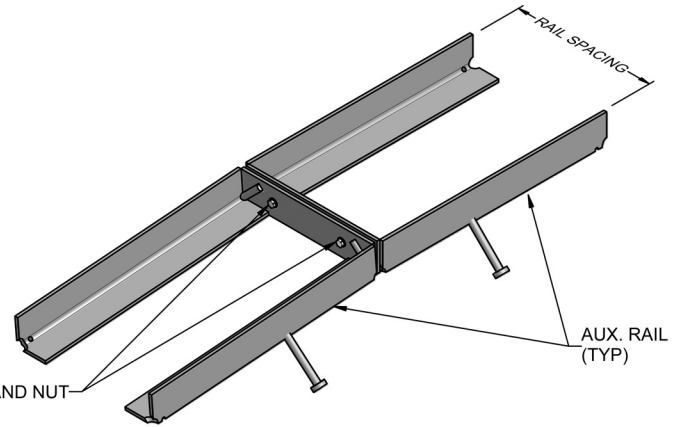
# AUXILIARY RAIL USAGE

WASHER OR OTHER SHIMS  
TO CREATE GAP AS REQUIRED  
FOR SLOPE

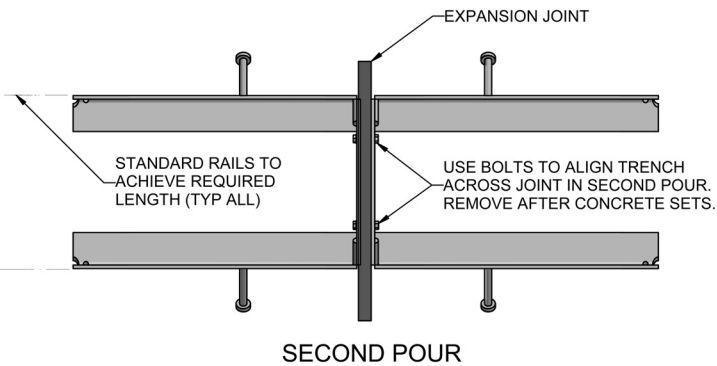
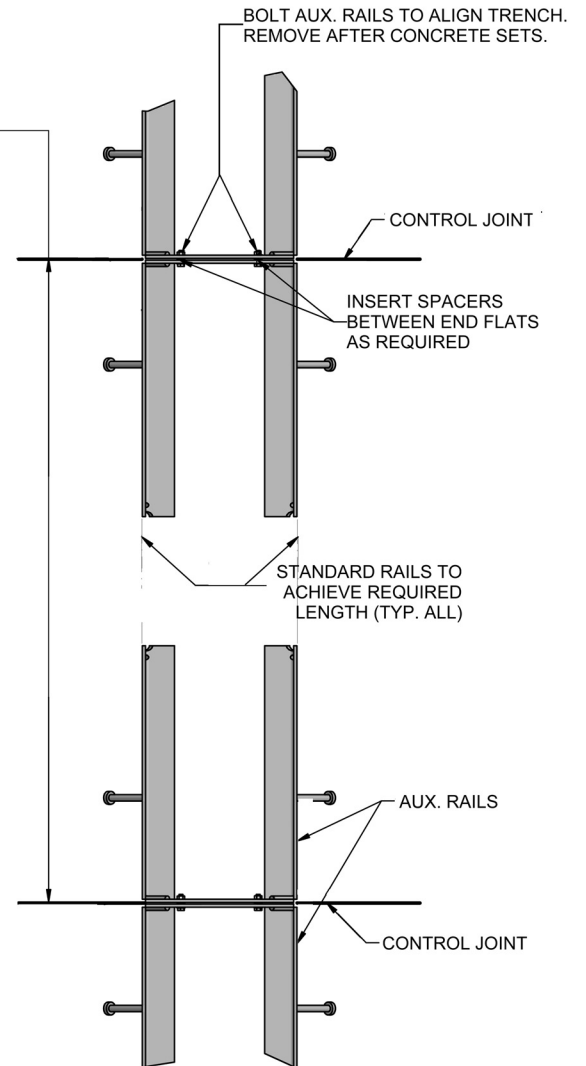
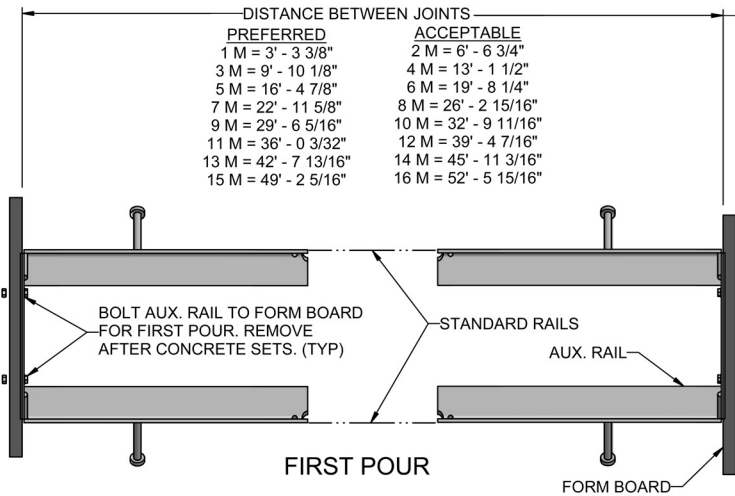


**NOTES:**

1. COORDINATE BREAK POINT OF SLOPE WITH POSSIBLE LOCATIONS OF AUXILIARY RAILS IN TRENCH RUN.
2. ADD OR REMOVE EPS FOAM AT END OF SECTIONS AT SLOPE BREAK AS REQUIRED.



## SLOPE BREAK DETAIL



## EXPANSION JOINT DETAIL

## CONTROL JOINT DETAIL

# NOTES:

A large grid of 30 columns and 40 rows, intended for handwritten notes.

**ABT, Inc.**

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ABT's warranties are void if  
components or installation  
procedures are modified.

ver. 10/31/14