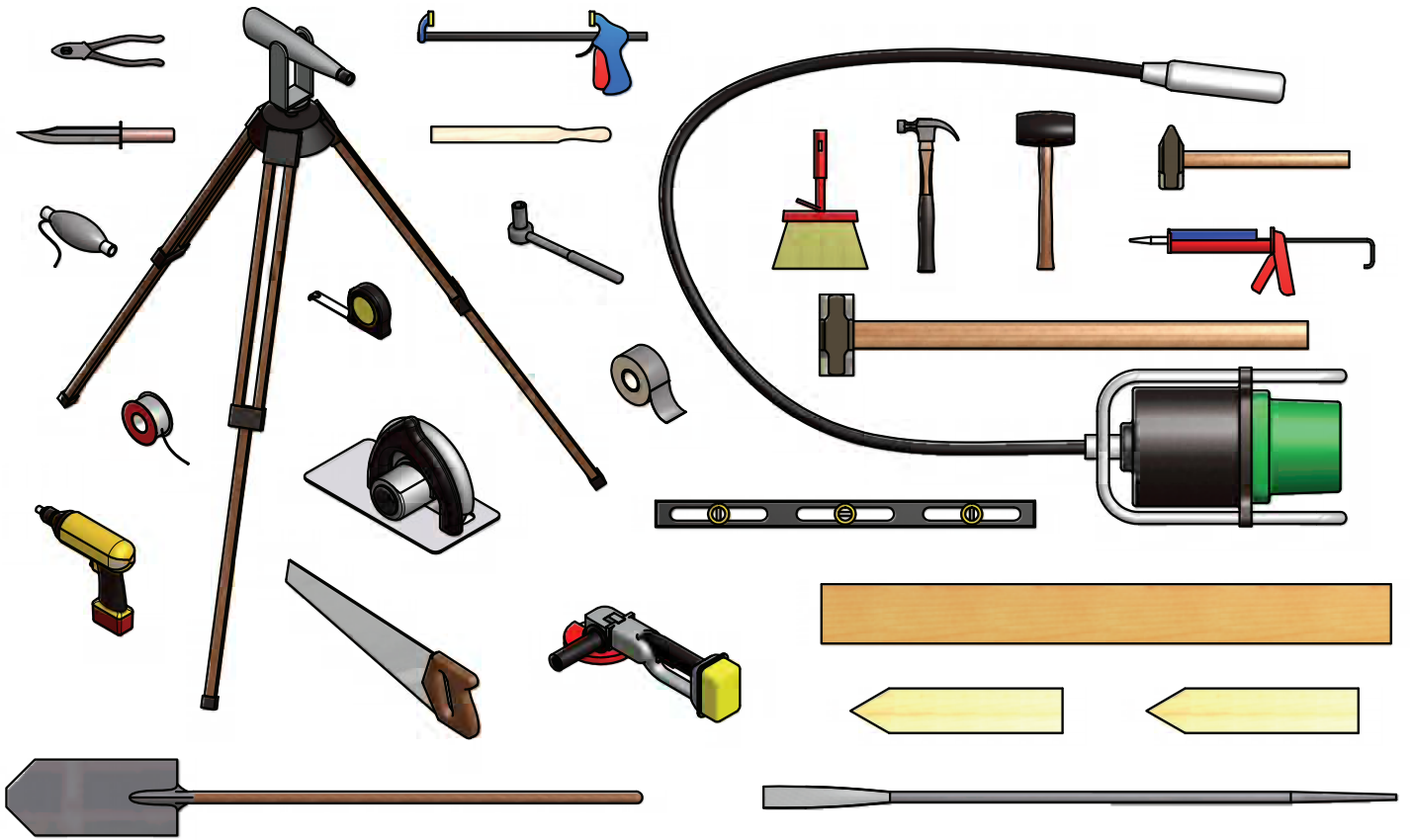


TFX[®]
TOGGLE LOCK

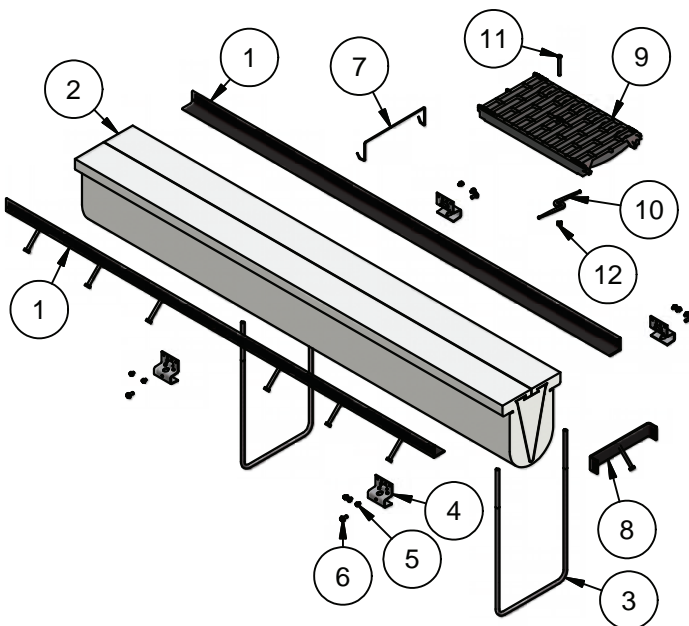
INSTALLATION GUIDE



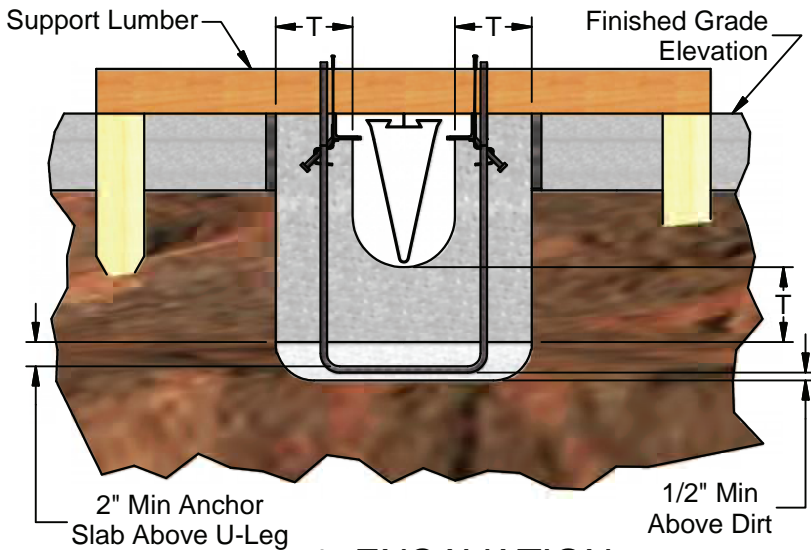
USEFUL OR REQUIRED TOOLS



COMPONENT IDENTIFICATION

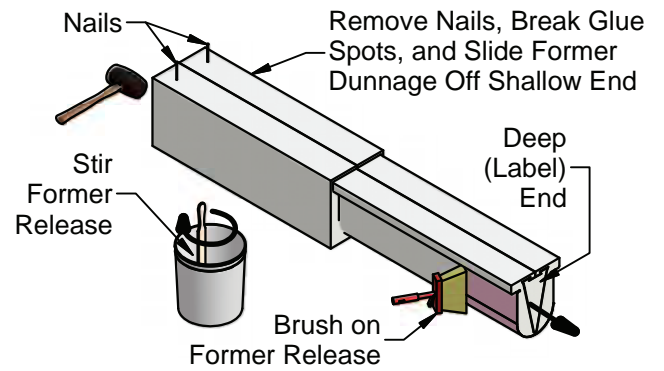


COMPONENTS	
ITEM	DESCRIPTION
1	Angle Frames/Rails
2	EPS Former
3	Rebar U-Leg
4	Leg Bracket
5	Assembly Screw - Ø1/4" x 3/8" Steel, Hex Head, Thread Forming
6	Rebar Leg Lock Screw - Ø5/16" x 3/4" Steel, Hex Head, Thread Forming
7	Cross Tie Wire Form
8	End Rail
9	Grate
10	Grate Retainer Toggle
11	Grate Retainer Screw and Washer - Ø5/16" UNC
12	Grate Retainer Nut - Ø5/16" Square Nut

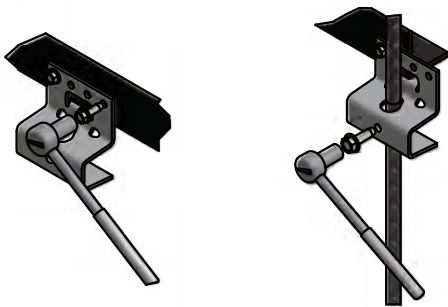


1. EXCAVATION

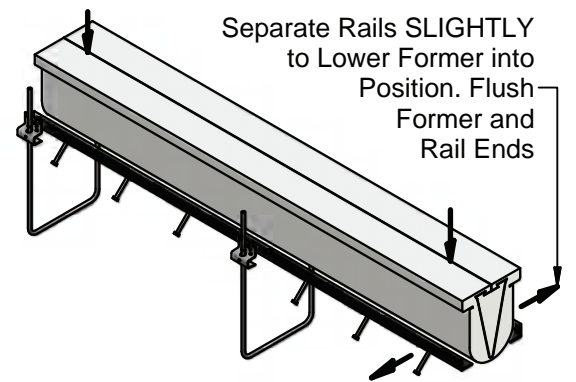
T = per Structural Specifications



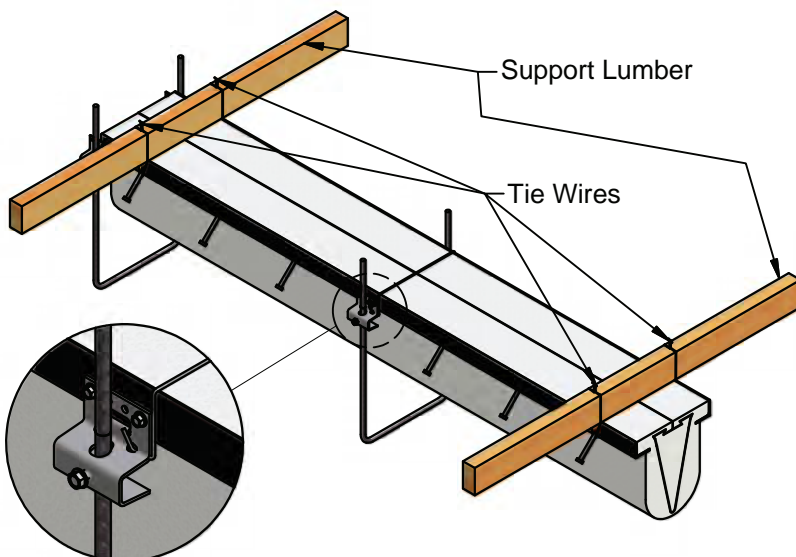
2. FORMER PREPARATION



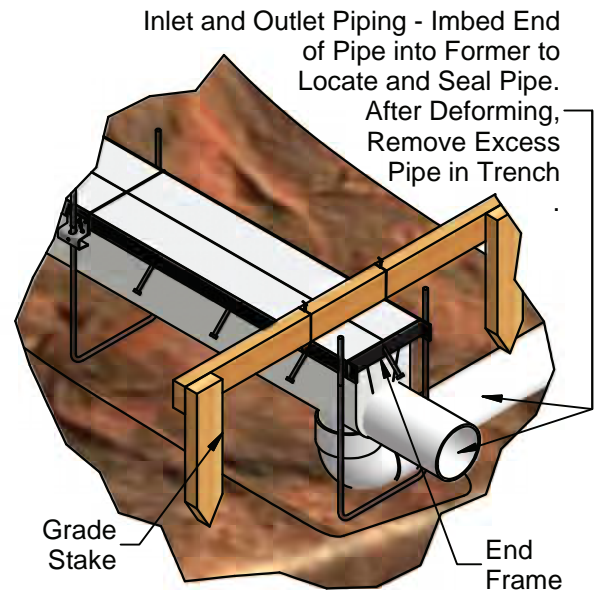
3. LEG ATTACH



4. FORMER / RAIL ASSEMBLY

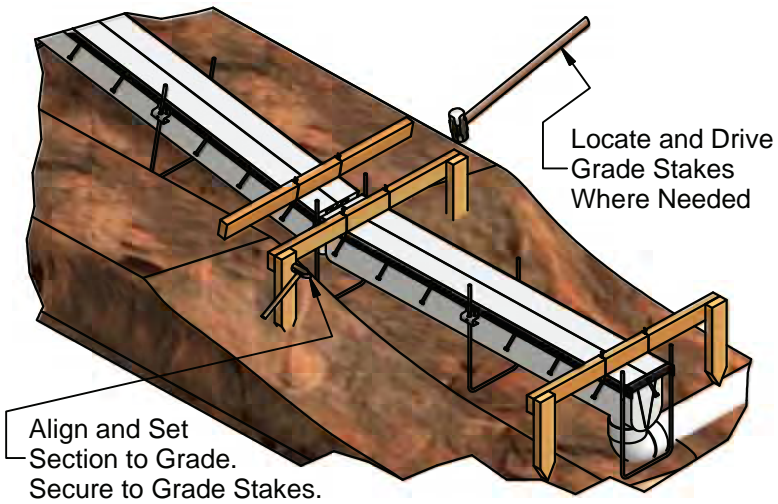


5. SUPPORT LUMBER ATTACH

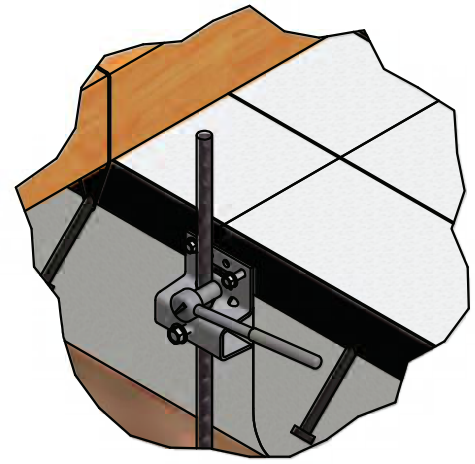


6. DISCHARGE PLACE & ALIGN

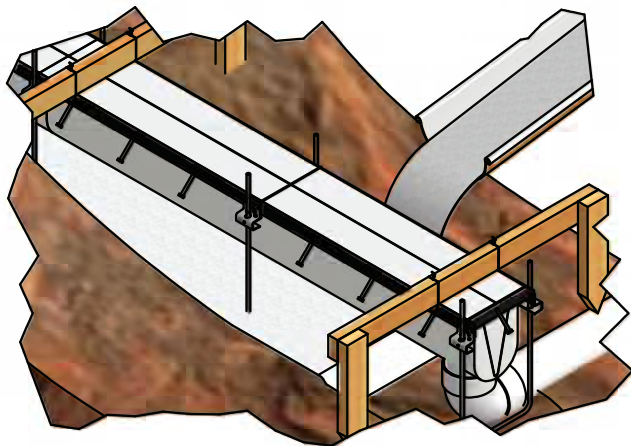
Locate and Align Outlet Channel First, Start at Deep End and Work to Shallow End



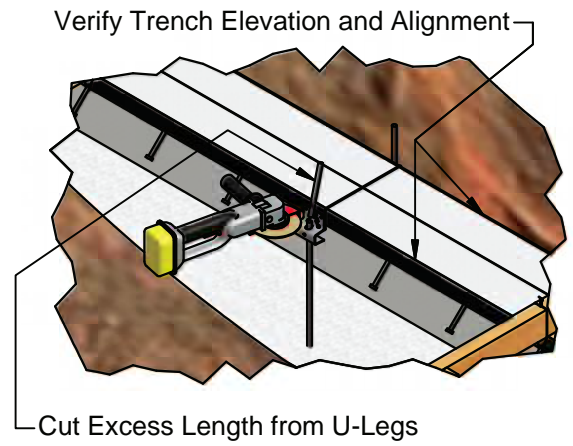
7. SECTION PLACE & ALIGN



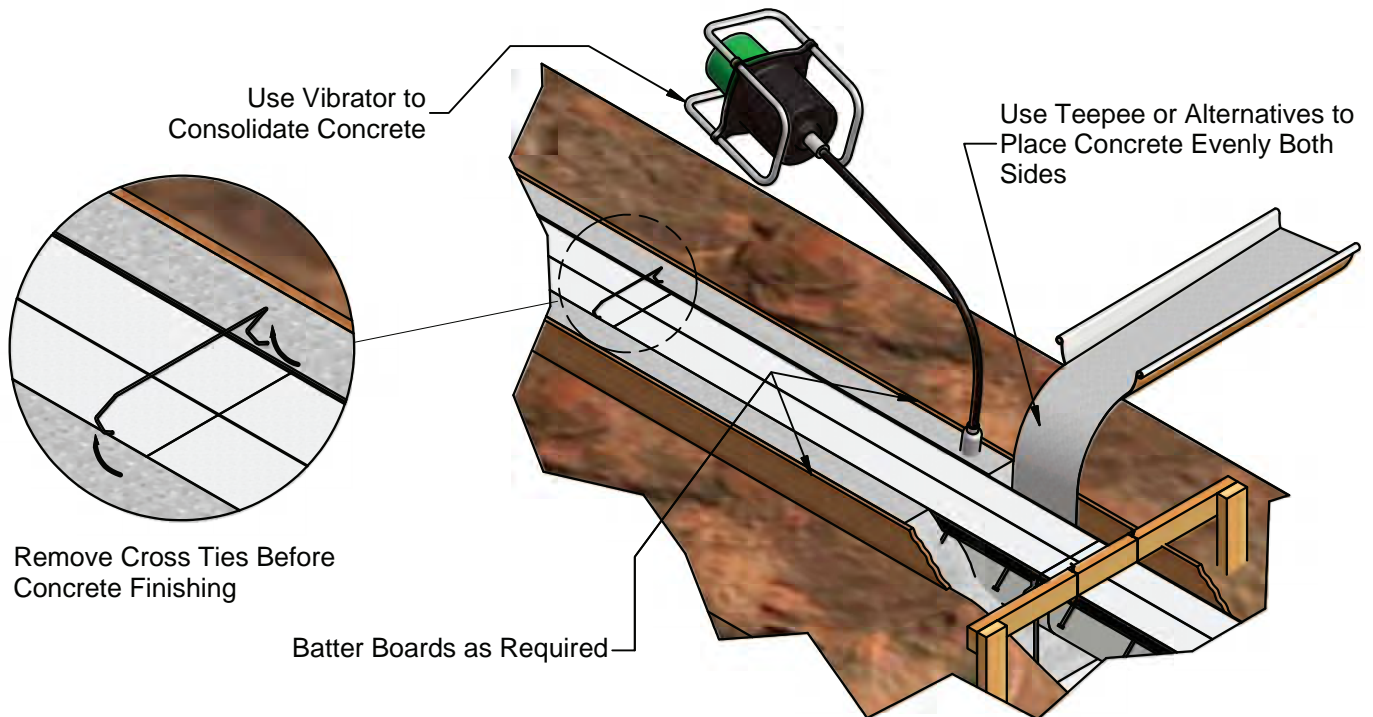
8. RAIL CONNECTION



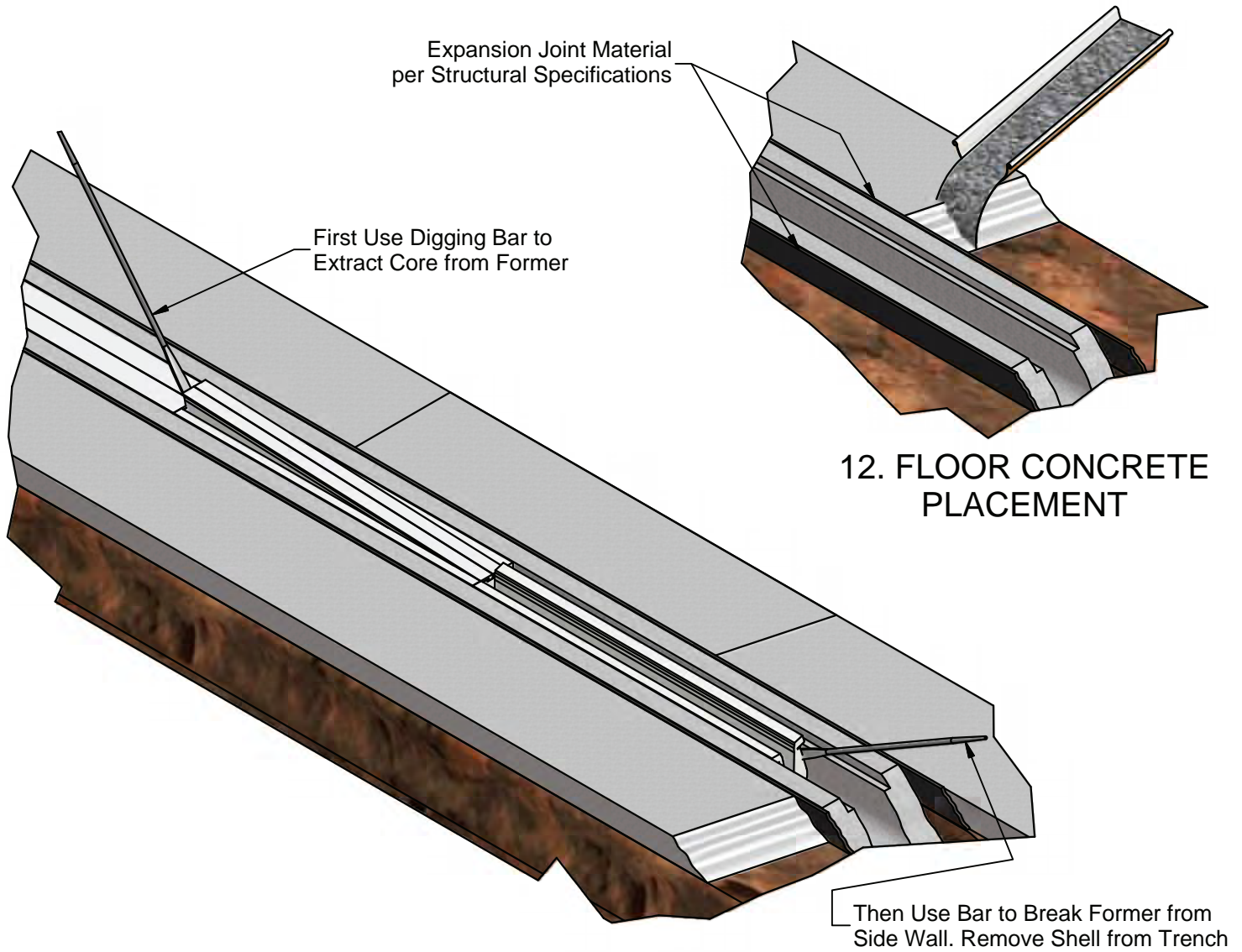
9. PLACE ANCHOR SLAB
See Step 1 for Dimensions



10. FINAL ALIGN & U-LEG TRIM

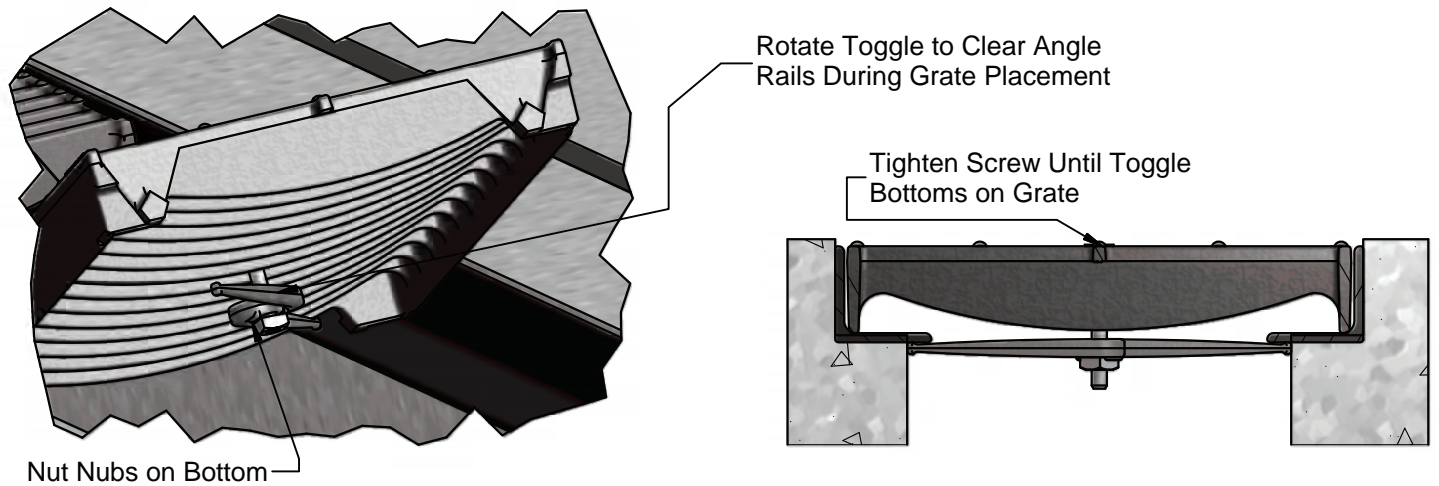


11. ENCAPSULATION CONCRETE PLACEMENT AND CONSOLIDATION



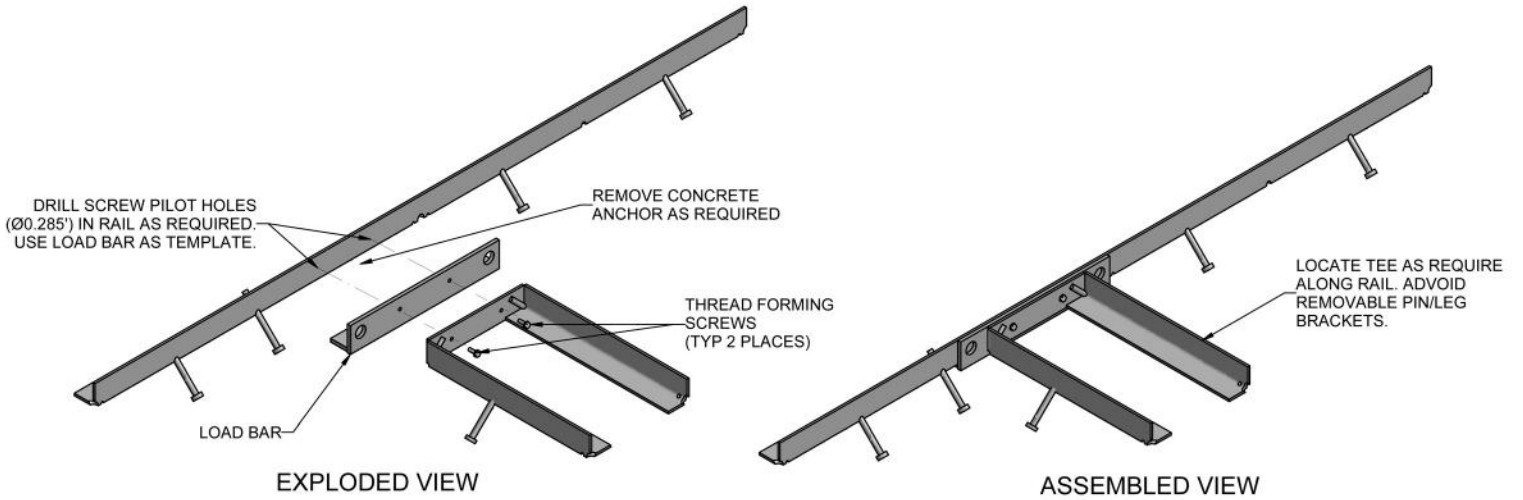
12. FLOOR CONCRETE PLACEMENT

13. FORMER REMOVAL

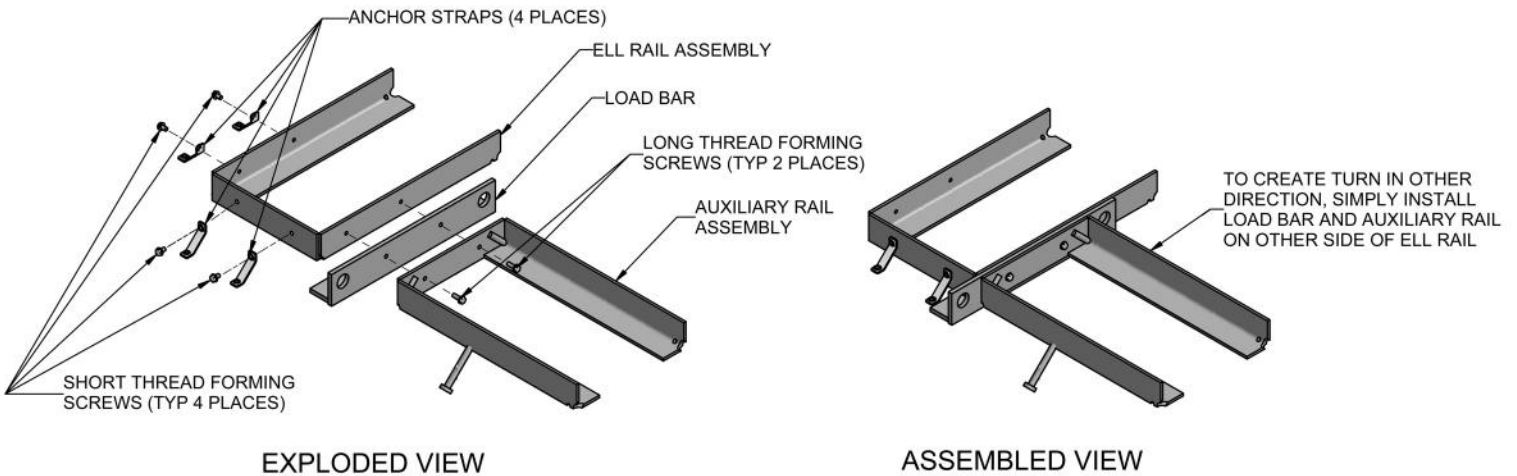


14. GRATE INSTALLATION

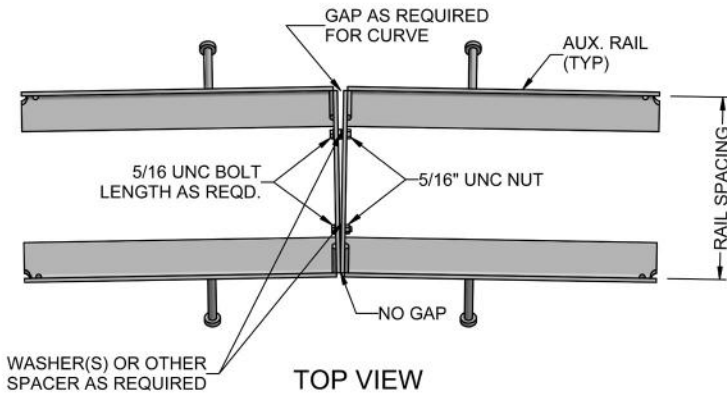
AUXILIARY RAIL USAGE



TEE DETAIL



ELL DETAIL



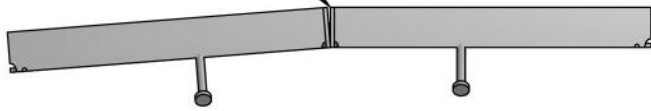
CURVE DETAIL

- 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. CALCULATE GAP PER ASSEMBLY IS AS FOLLOWS:

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

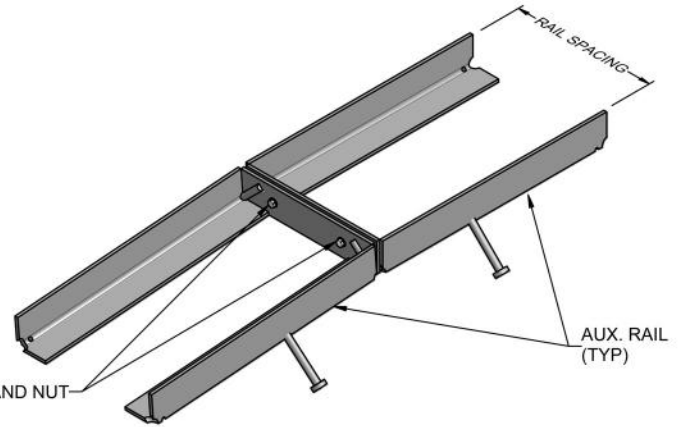
AUXILIARY RAIL USAGE

WASHER OR OTHER SHIMS
TO CREATE GAP AS REQUIRED
FOR SLOPE

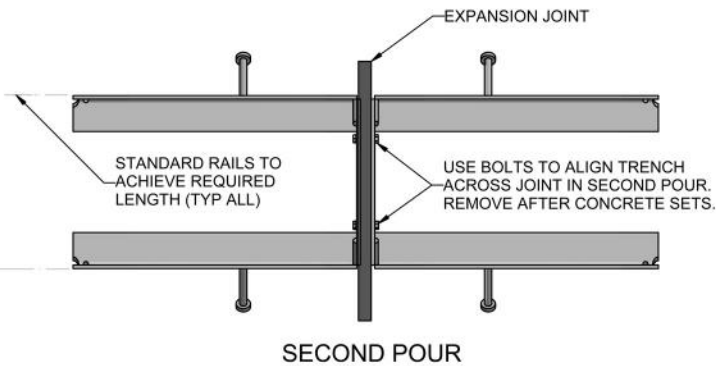
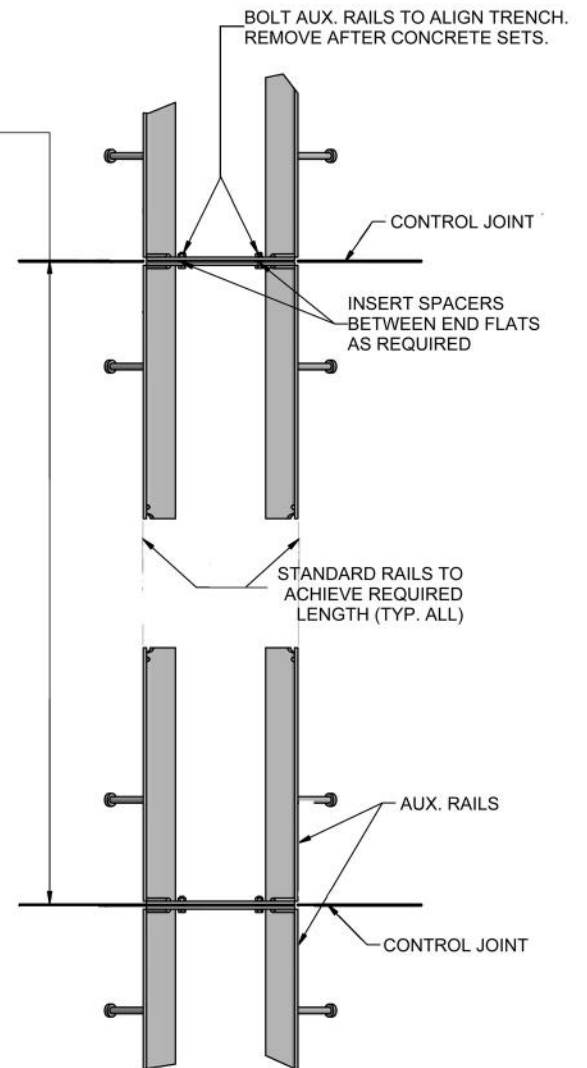
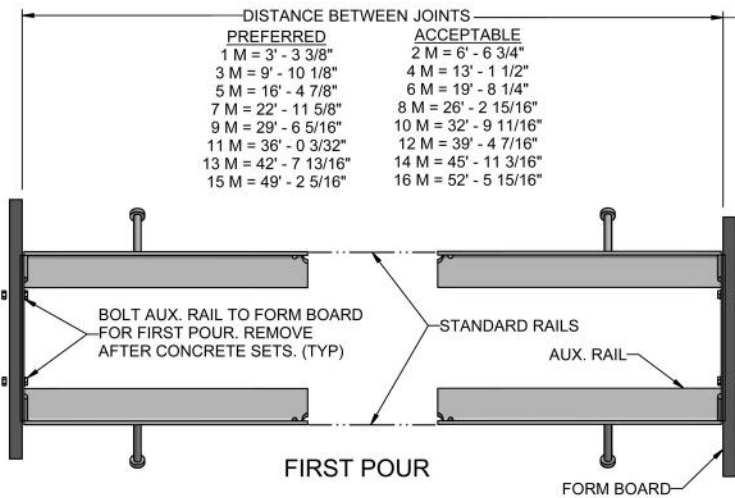


NOTES:

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

