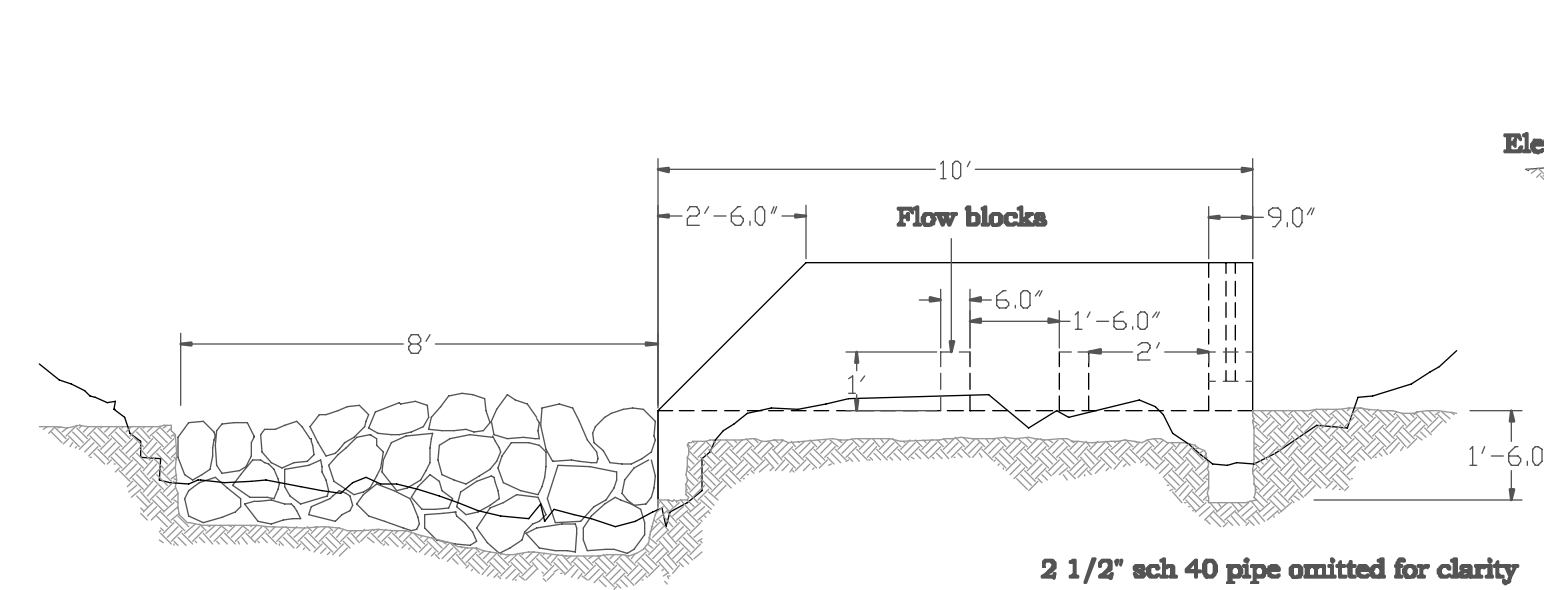
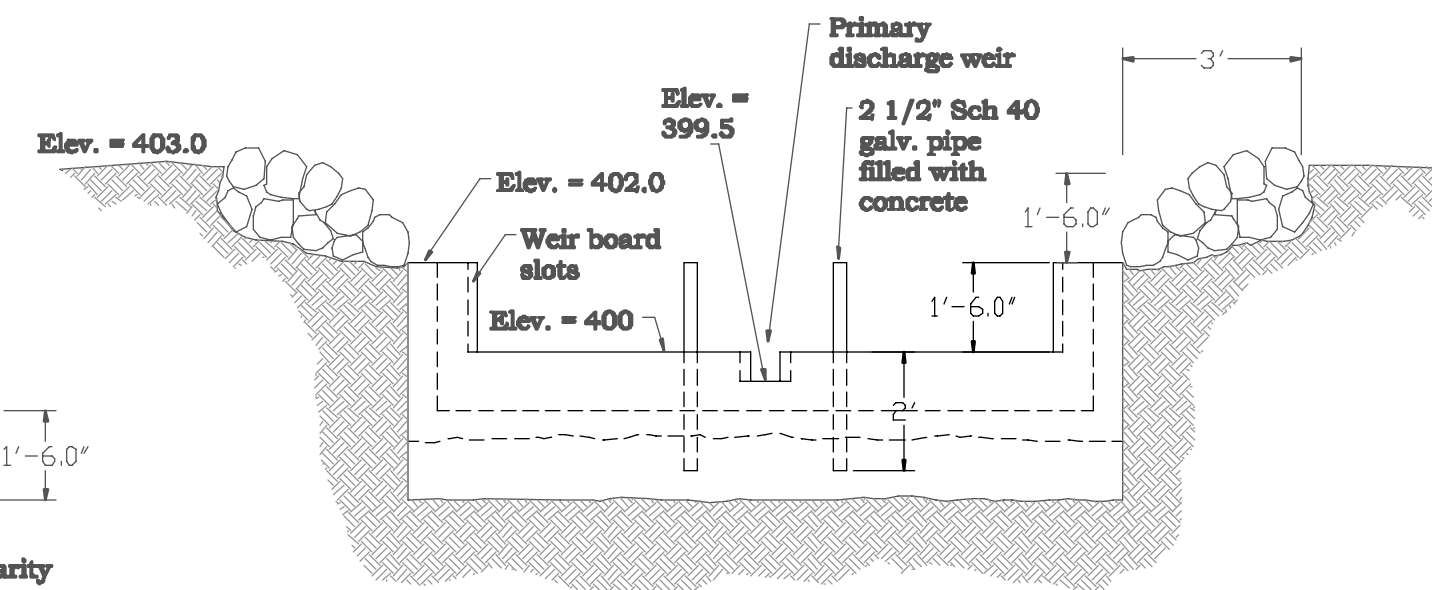


# Lost Pines Nature Trails - Colorado River Refuge: Details

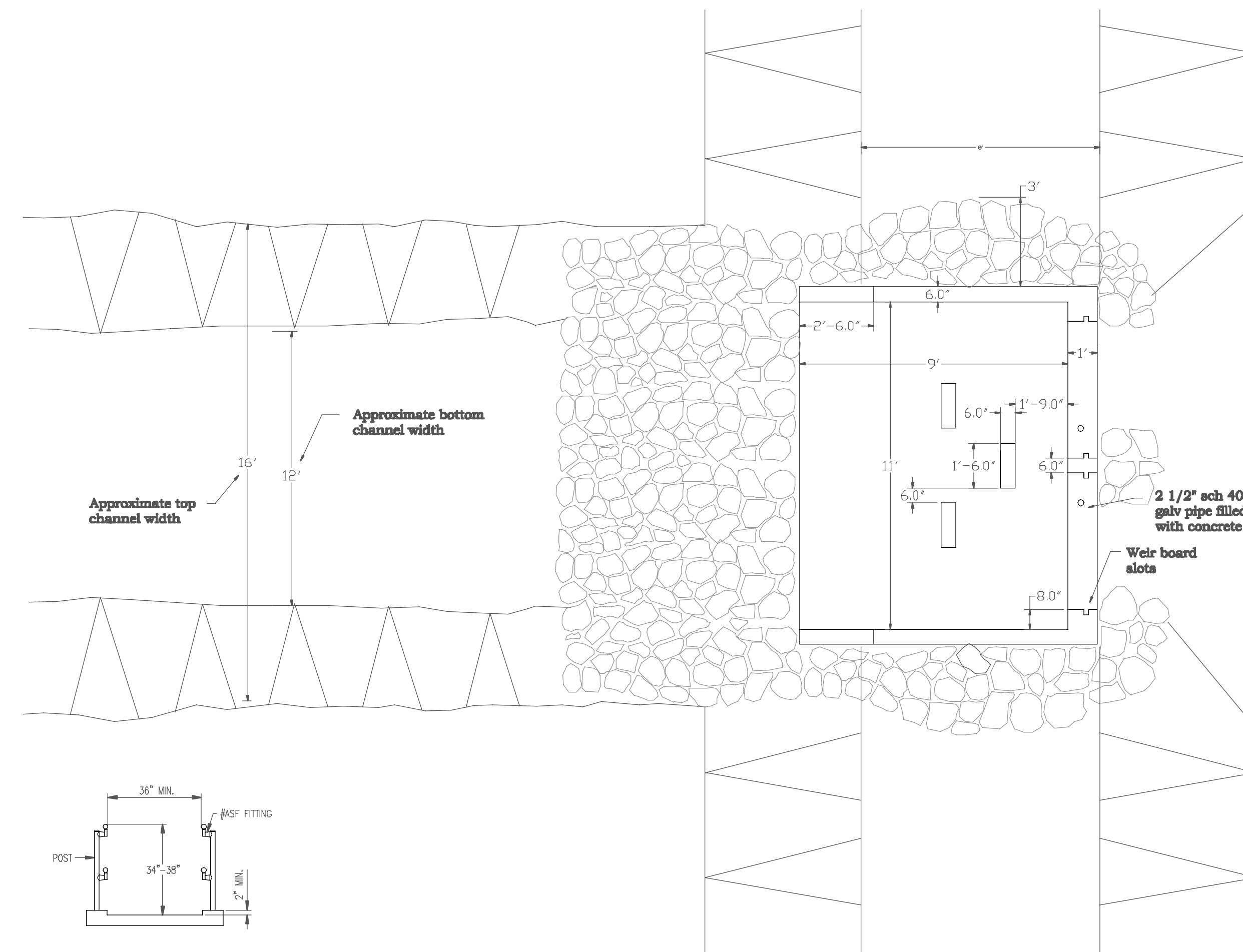


Diversion Structure  
Side View

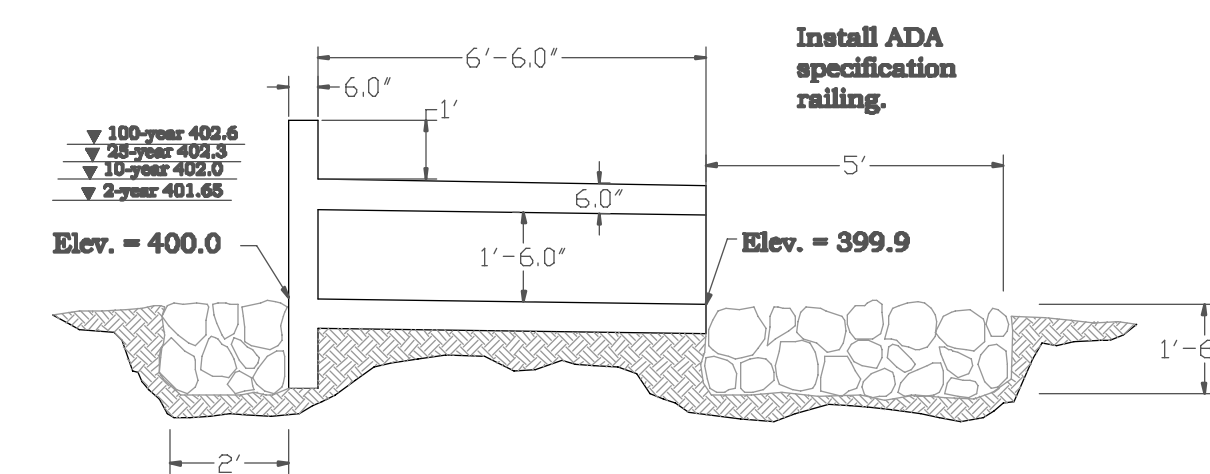


Diversion Structure  
End View

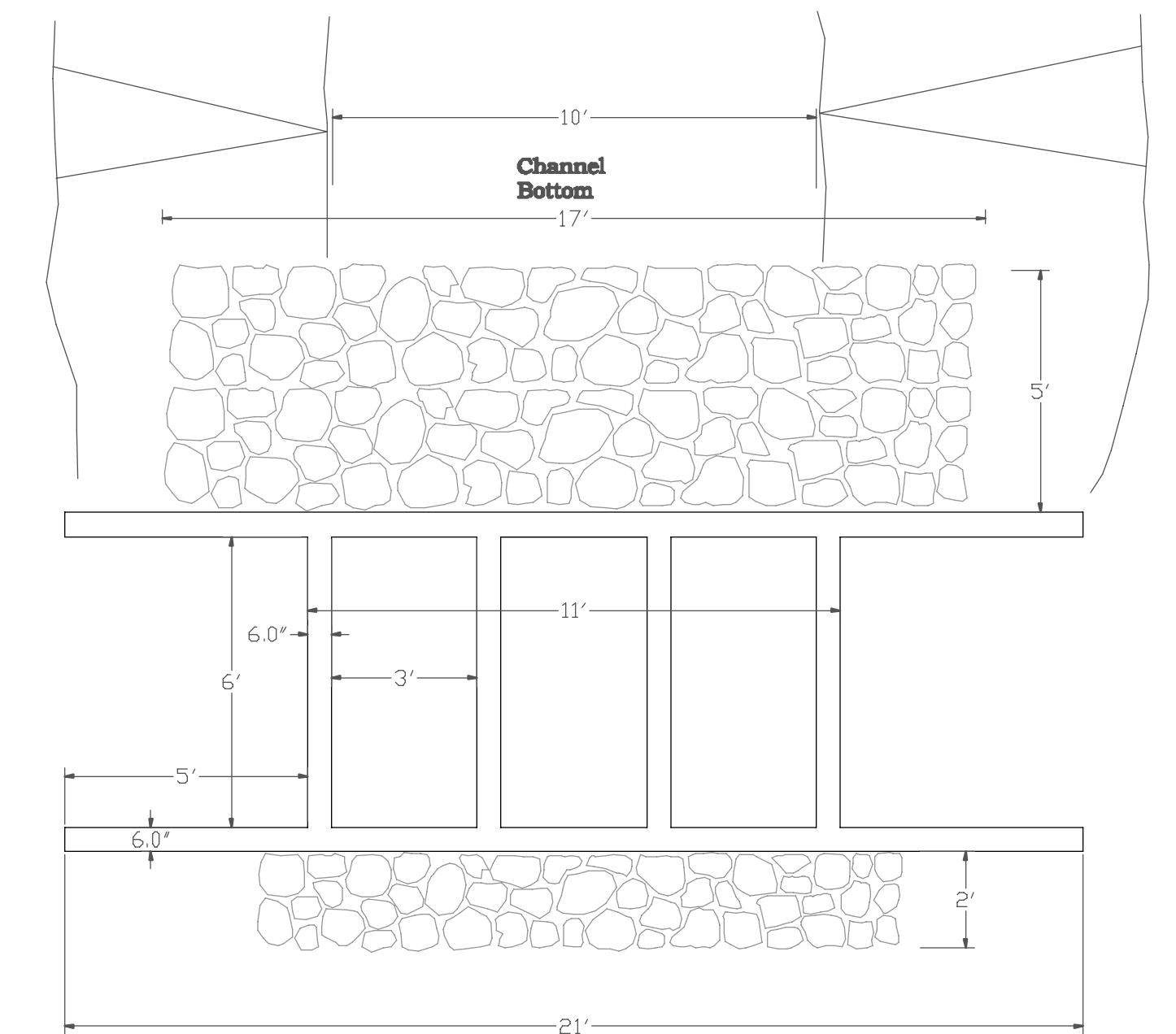
1. Reinforce with #4 bars on 18" centers.
2. Add extra bar in toe walls and at top of weir and side walls..
3. Use 18" "L" bars where mats tie together and at flow spreader blocks.
4. Provide 1 1/2" clearance from edge of steel to edge of concrete, all bars.
5. Use standard 4,000 psi concrete.
6. Rock rip-rap to be 12" angular rock, underlain by geotextile fabric.
7. Rock to be minimum of 1.5 feet deep, 2.5 feet deep at the toewall.
8. Slot for 2x6 weir boards to be 1 3/4" wide.
9. Where not specified concrete to be 4" to 6" thick.
10. This structure is a candidate for wood construction.  
Only the weir wall would be constructed from wood, the remainder would be rock rip-rap.



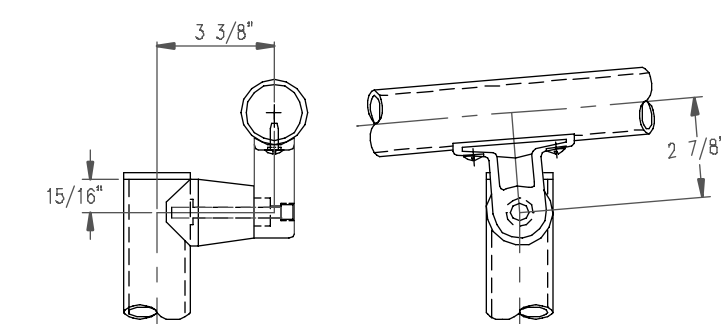
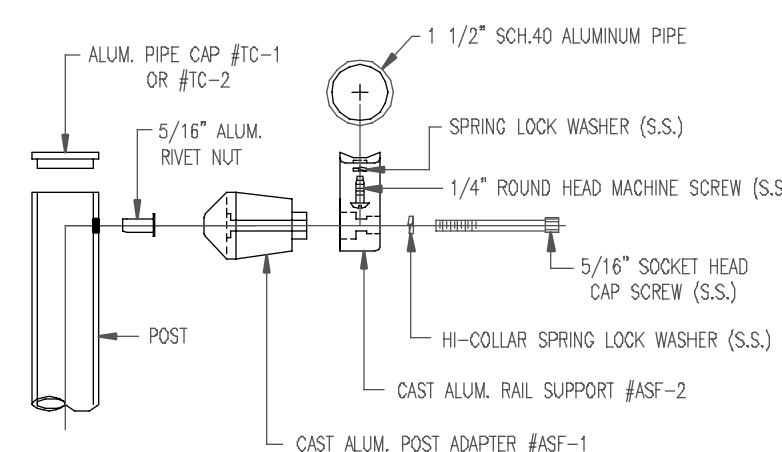
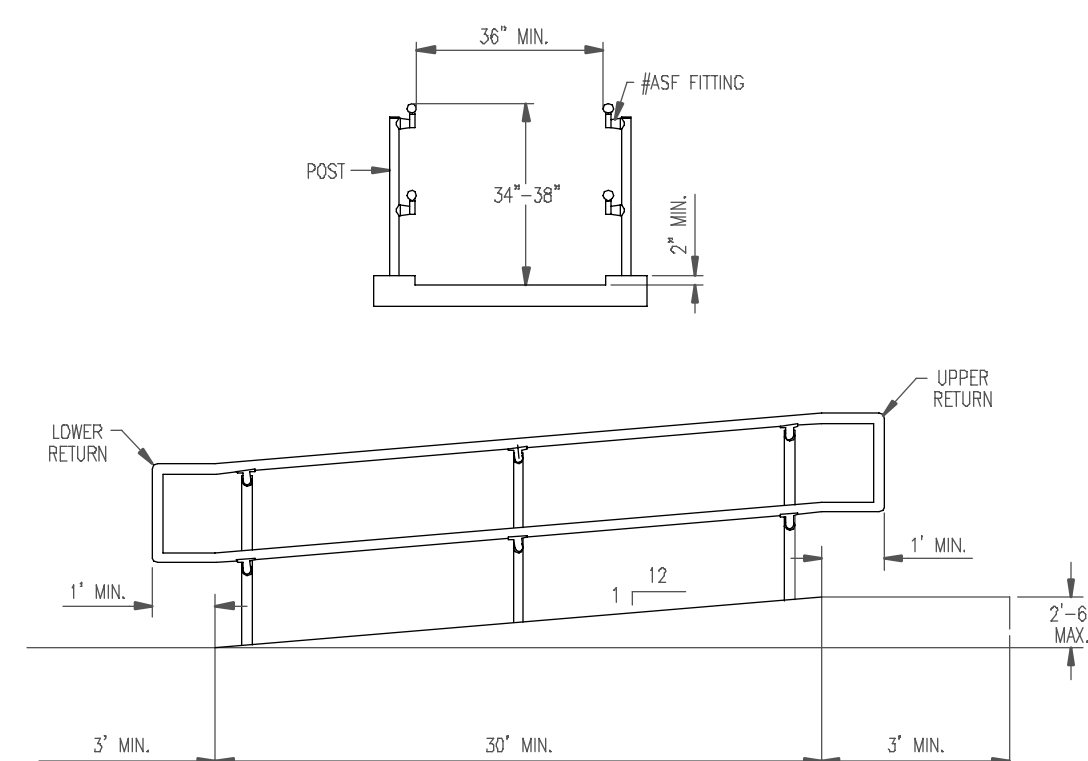
Diversion Structure  
Plan View



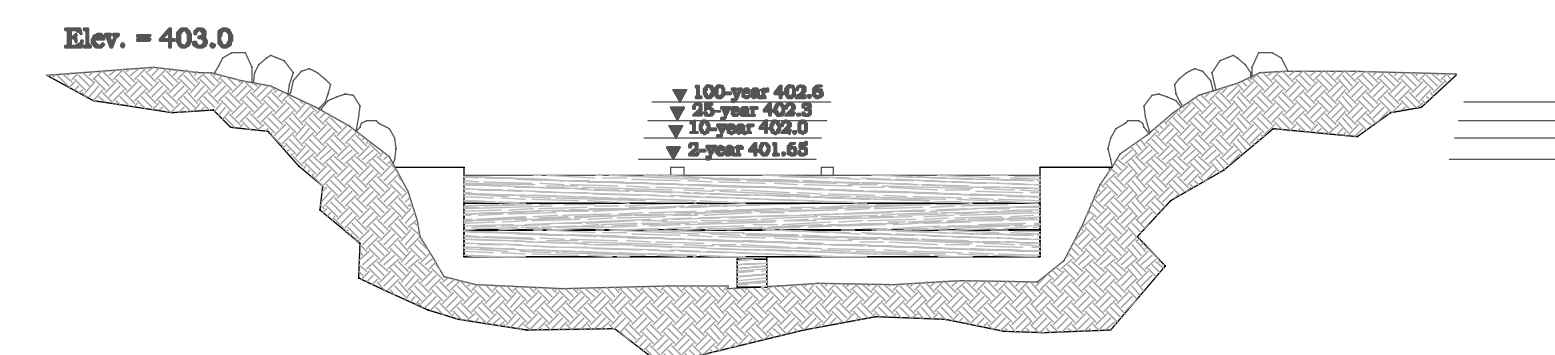
Diversion Channel  
Box Culvert and ADA Access way  
3 - 3' x 18" Boxes  
Side View



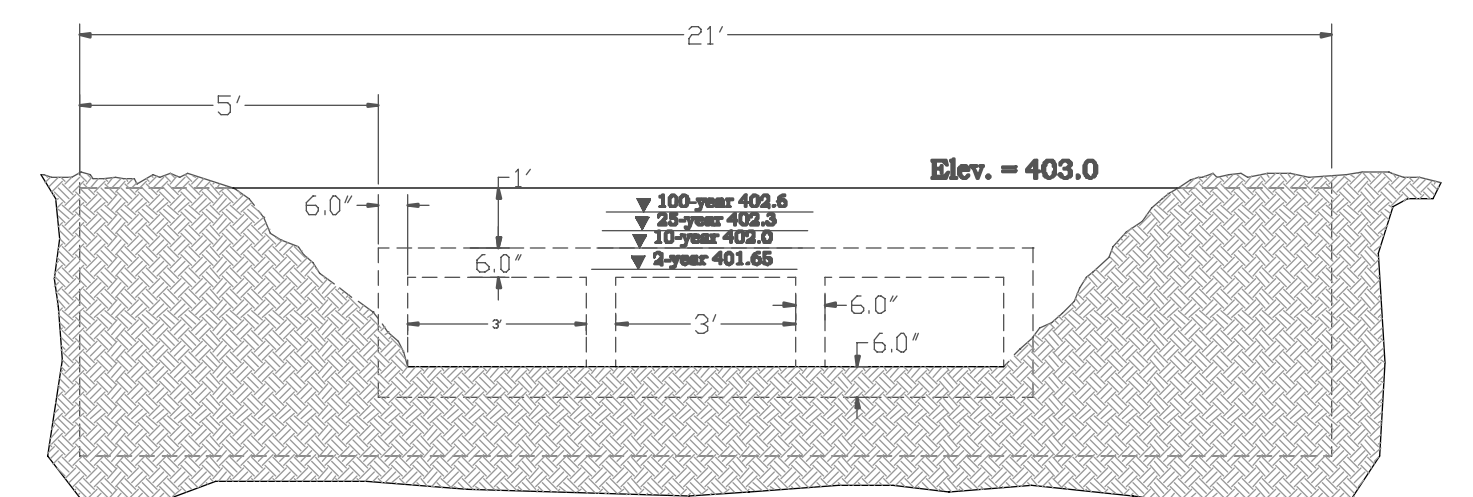
Diversion Channel  
Box Culvert and ADA Access way  
3 - 3' x 18" Boxes  
Plan View



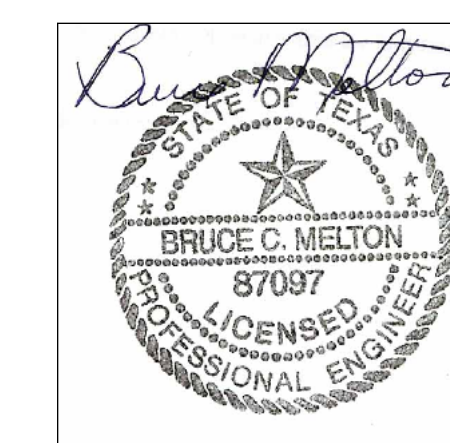
ADA Specification  
Guardrail



Diversion Weir  
Maximum Operating Condition  
3- Weir Boards Installed  
Plus Low Flow Weir Board



Diversion Channel  
Box Culvert and ADA Access way  
3 - 3' x 18" Boxes  
End View, Upstream



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