



**Dimensions of the above weir:**

- A. **Max height above channel bed:** 30"
- B. **Span (end to end):** 24'
- C. **Dimensions of weir panels:** (3) 4'x8'
- D. **Depth buried in side slope:** up to 4' (when top of panel is flush with ground)
- E. **Depth buried in channel:** 6" (center of channel) -12" (edge of channel)

**Dimension differences between above weir and proposed weirs:**

- A. **Max height above channel bed:** we could do a desktop analysis to determine needs, but I'd estimate we could set max height at 18" if needed, maybe a couple inches lower. 24" max height would be best.
- B. **Span (end to end):** will be reduced if we reduce (A). Also, this span depends on the slope of the side slope. Steeper slopes have shorter spans.
  - For example, if channel width is 6' and side slope is 4:1 on both sides and max height (A) is 18", then span equals 18'.
- C. **Dimensions of weir panels:** could reduce from 4'x8' to 2'x8' or 3'x8' if we need less "depth buried" in side slope or channel. We'd have to discuss to ensure we can seal around it with bentonite or something, though, to preserve measurement integrity.
- D. **Depth buried in side slope:** could probably be reduced, per (C)
- E. **Depth buried in channel:** ditto

**Other Materials Differences between this weir and proposed weirs:**

- **No wood frame needed:** per current plan, the wood frame above is not needed. So, if better for Design, we do not need the 2x4 that runs across center of channel on top of weir cutout.

- **Fewer, shorter posts needed:** the above setup used extra equipment that's unnecessary. For proposed sites, we'd only need the posts to support the weir, plus one support for one PVC pipe. They do not have to protrude as much as they do here, either.
- **Different materials:**
  - **Weir notch cut:** the weir notch (about 4" of material that forms the center cutout) itself ideally would be metal used for your signs.
  - **Weir center and side panels:** The rest of the center plate and side panels could be the same metal, or could be something else (PFTE or plywood) if better
  - **Posts:** for the PVC pipe, we don't necessarily need metal. May be possible with 2"x2" wood post, if we can sink it a few feet in.