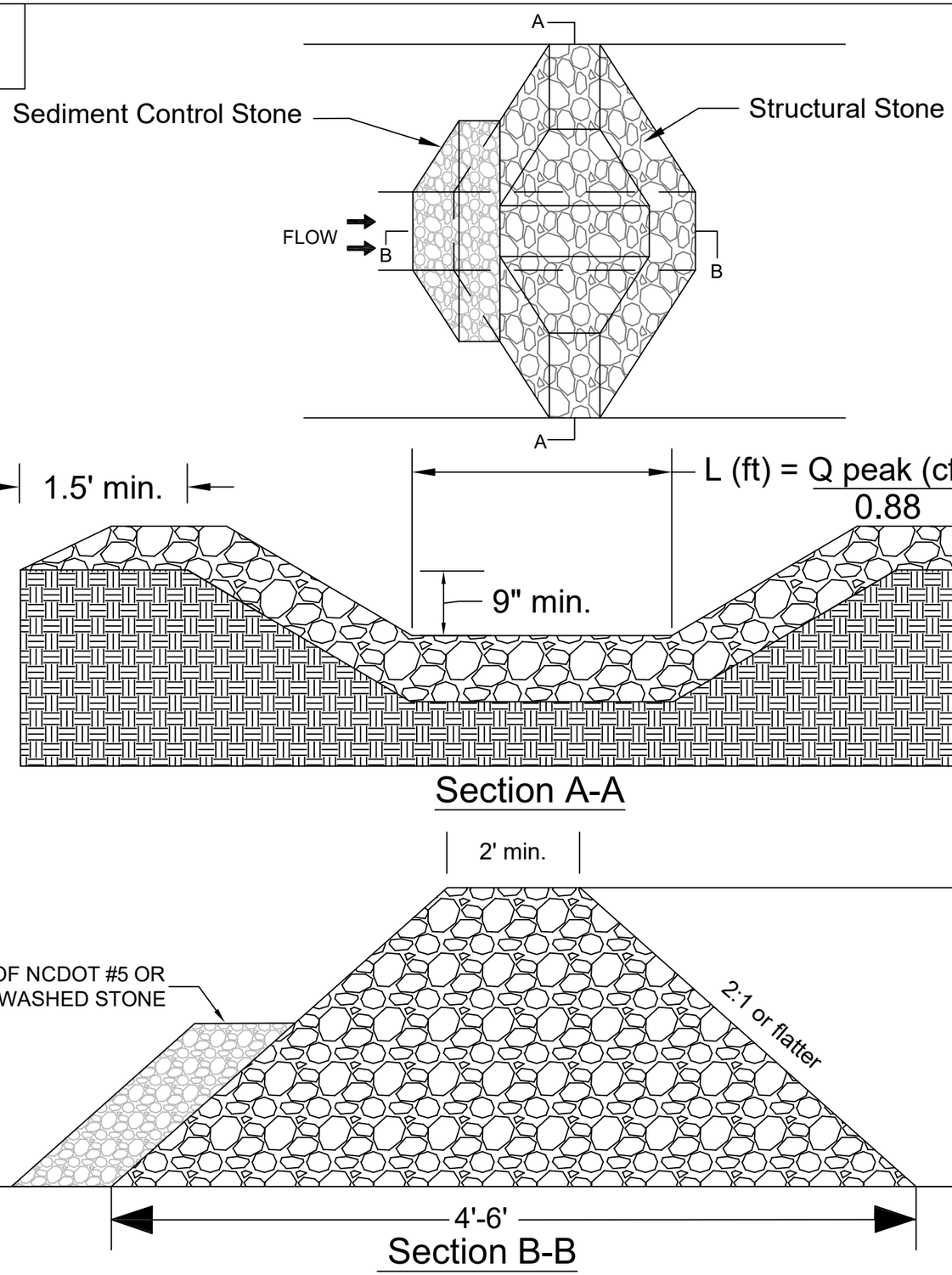
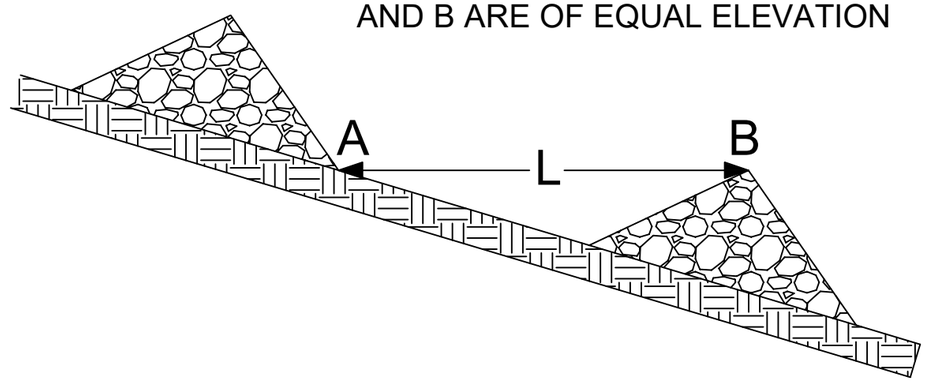
DATE:

PAGE:



L= THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION



NOTES:

1. Place stone on a filter fabric foundation.
2. The center stone section must be at least 9 inches below natural ground level where the dam abuts the channel banks.
3. Place sediment control stone (NCDOT #5 or $57) on the upstream side of the dam that is a minimum of 1 foot thick.
4. Extend stone at least 1.5 feet beyond the ditch bank to keep water from cutting around the ends of the check dam.
5. Provide an apron that is 3 times the height of the dam. The apron width is at least 4 feet long. Undercut the apron so that the top of the apron is flush with the surrounding grade.
6. Extend the stone at least 1.5 feet beyond the ditch bank to keep water from cutting around the ends of the check dam.
7. Excavate sediment storage area to the dimensions shown on the plan.
8. Protect the channel after the lowest check dam from heavy flow that could cause erosion.
9. Riprap and filter fabric should be keyed in to prevent under cutting.
10. Do not place check dams in intermittent or perennial streams.

MAINTENANCE:

1. Inspect check dams and channels at least weekly and after each rainfall of 1.0 inch or greater. Clean out sediment, straw, limbs or other debris that could clog the channel when needed.
2. Anticipate submergence and deposition above the check dam and erosion from high flows around the edges of the dam. Correct all damage immediately. If significant erosion occurs between dams, additional measures can be taken such as, installing a protective riprap liner in that portion of the channel.
3. Remove sediment accumulated behind the dams as needed to prevent damage to channel vegetation, allow the channel to drain through the stone check dam, and prevent large flows from carrying sediment over the dam. Add stones to the dams as needed to maintain design height and cross section.

NORTH CAROLINA
Department of Environmental Quality

CHECK DAM WITH WEIR

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates