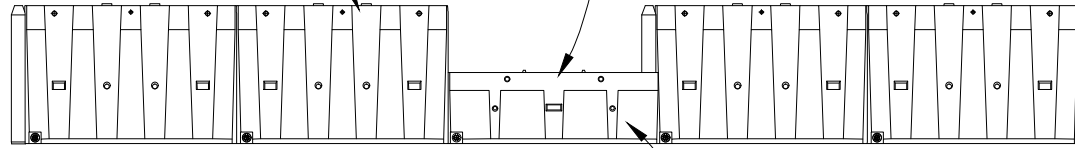


FILE PATH: G:\Active Projects\14000 to 15999\15441\Colorado Post-Fire Detail\2022-06-20\_Post-Fire Muscle Wall Check Dam.dwg SAVE DATE: 6/20/2022 12:09:03 PM SAVED BY: Chemming

4' TALL MUSCLE WALL PIECE (SEE NOTE 2) FILLED WITH WATER

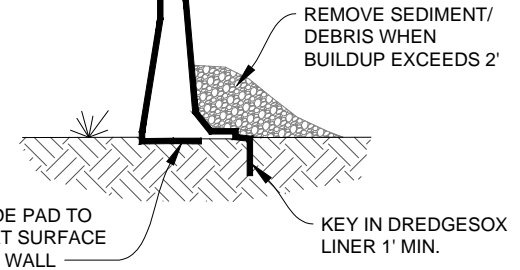
2' TALL MUSCLE WALL PIECE (SEE NOTE 1) FILLED WITH WATER (ACTS AS WEIR)

DREDGESOX LINER (SEE NOTE 3) WRAPPED AROUND MUSCLE WALL (USE ONE CONTINUOUS 12' WIDE SHEET)



INSTALL TWO 2' TALL MUSCLE WALL PIECES IF CHANNEL WIDTH EXCEEDS 35'

PROFILE VIEW



GRADE 3' WIDE PAD TO PROVIDE FLAT SURFACE FOR MUSCLE WALL

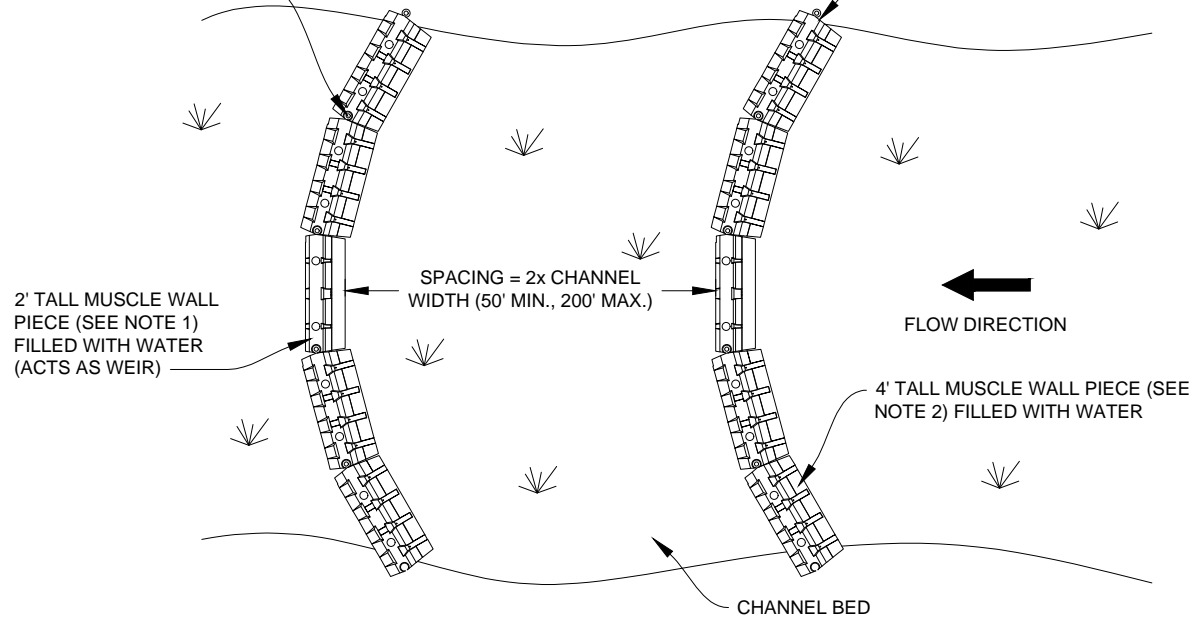
REMOVE SEDIMENT/ DEBRIS WHEN BUILDUP EXCEEDS 2'

KEY IN DREDGESOX LINER 1' MIN.

SECTION VIEW

CREATE U-SHAPE BY ROTATING MUSCLE WALL PIECES AT HINGE POINT

KEY END OF MUSCLE WALL INTO EXISTING HILLSIDE/CHANNEL BANK



SPACING = 2x CHANNEL WIDTH (50' MIN., 200' MAX.)

FLOW DIRECTION

2' TALL MUSCLE WALL PIECE (SEE NOTE 1) FILLED WITH WATER (ACTS AS WEIR)

4' TALL MUSCLE WALL PIECE (SEE NOTE 2) FILLED WITH WATER

CHANNEL BED

PLAN VIEW

NOTES

1. **2' TALL MUSCLE WALL**
  - LOW DENSITY POLYETHYLENE (LDPE)
  - 2' TALL, 6' LONG, 2' WIDE
  - 62 LBS EMPTY WEIGHT
  - 600 LBS FILLED WEIGHT
  - 190 FT-LB IMPACT STRENGTH
  - 2,600 PSI TENSILE STRENGTH AT YIELD
  - -40°F to 180°F TEMPERATURE RANGE
  - 10 YEAR UV RATED
2. **4' TALL MUSCLE WALL**
  - LOW DENSITY POLYETHYLENE (LDPE)
  - 4' TALL, 6' LONG, 2.54' WIDE
  - 121 LBS EMPTY WEIGHT
  - 1,400 LBS FILLED WEIGHT
  - 190 FT-LB IMPACT STRENGTH
  - 2,600 PSI TENSILE STRENGTH AT YIELD
  - -40°F to 180°F TEMPERATURE RANGE
  - 10 YEAR UV RATED
3. **DREDGESOX LINER**
  - DOUBLE-LAYERED KNITTED POLYETHYLENE MESH
  - 11 SPI COURSE COUNT
  - 7.34 OZ/SQ-YD WEIGHT (ASTM D3776)
  - 135 LBS WARP AND 207 LBS FILL BREAK STRENGTH (ASTM D5034)
  - 32.3% WARP AND 61.7% FILL BREAK ELONGATION (ASTM D5034)
  - 58.0 LBS WARP AND 70.3 LBS FILL TEAR STRENGTH (ASTM D5587)
  - 284 PSI BURSTING STRENGTH (ASTM D3786)
  - AVAILABLE IN SADDLE TAN OR NATURAL GREEN
  - AVAILABLE IN FIRE RETARDANT VERSION



MUSCLE WALL  
675 N. 600 W STREET  
LOGAN, UT 84321

MUSCLE WALL CHECK DAM/BASIN DETAIL  
POST FIRE ALTERNATIVE  
COLORADO DEPARTMENT OF TRANSPORTATION

PROJECT NO.: 0000.000.000  
SCALE: NOT TO SCALE  
DRAWN BY: CRH CHECKED BY: JJT

FIGURE NO.  
**1**



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