



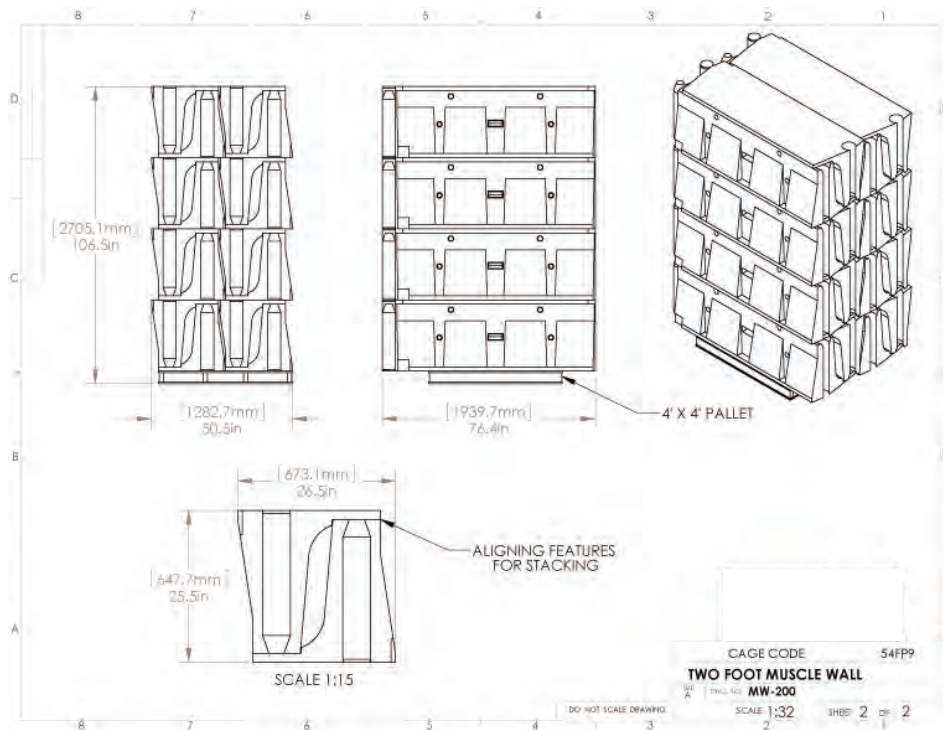
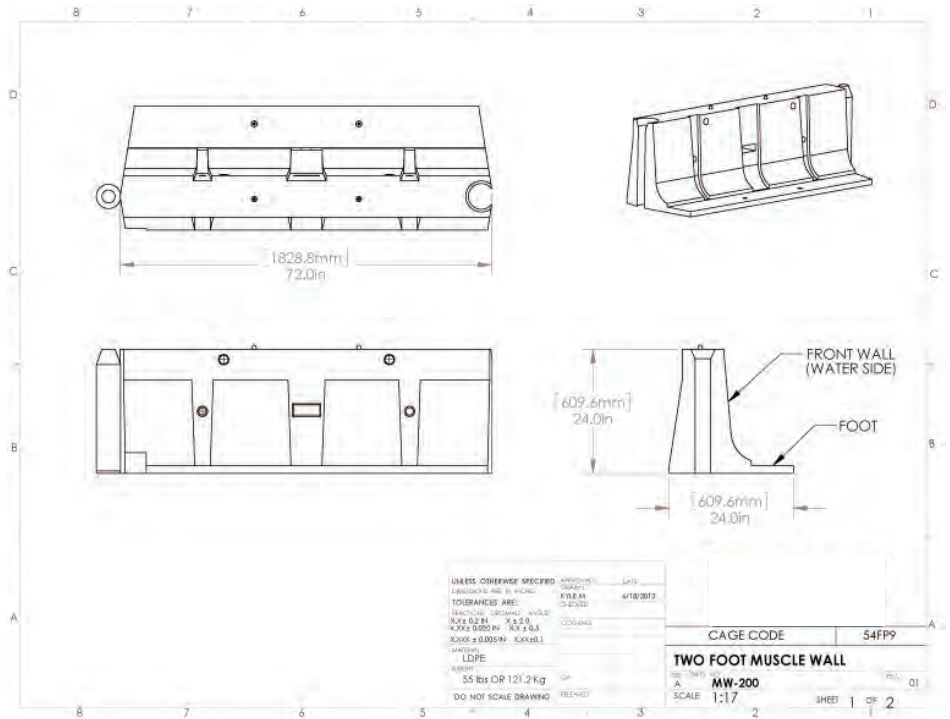
Standard Operating Procedures 2ft Muscle Wall

Secondary Containment

Table of Contents

Page 3	Specifications
Page 4	Items Needed
Page 5	Stage 1: Liner Deployment
Page 7	Stage 2: Wall Deployment
Page 10	Stage 3: Frac Tank Deployment
Page 11	Stage 4: Fourth Wall Deployment
Page 12	Stage 5: Takedown & Consolidation

Specifications



Items Needed

- Shovel
- 200ft Measuring Tape
- Marking Paint
- 2 Sledge Hammers
- 10 Sand Bags for every Section of Muscle Wall
- Gloves
- 2 Razor Knives
- 500-1000ft of String
- Trash Pump
- Fork Lift
- Lifting Dolly
- Gorilla Tape

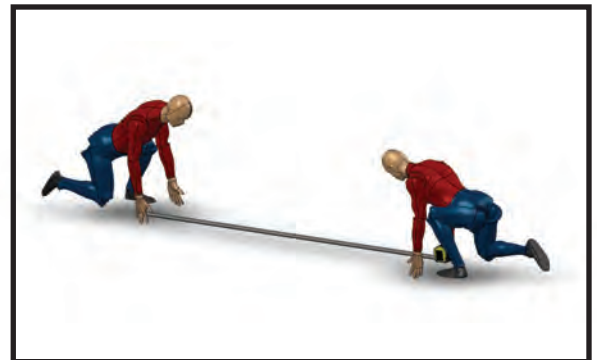


Stage 1

Liner Deployment

Step 1

Mark the dimensions for the containment to insure that everything is squared up when laying the liner and installing the walls. **Failing to do so could cause massive problems later on in the deployment.**



Step 2

Roll out the felt liner down the center of the containment area. When dealing with larger containments it is ideal to put a thick metal pole through the roll, attach chains to both sides, and pull slowly with a tractor.



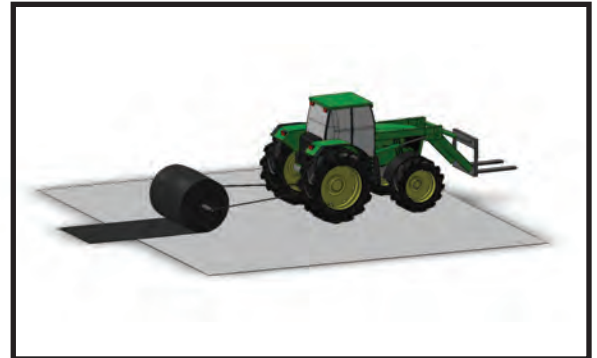
Step 3

Line multiple people down the entire roll of felt liner and spread it out so that the edges lay flat right at the marked dimensions of where the toe of the walls will go.



Step 4

Roll out the containment liner down the center of the felt liner. When dealing with larger containments it is ideal to put a thick metal pole through the roll, attach chains to both sides, and pull slowly with a tractor.



Step 5

Line multiple people down the entire roll of containment liner and spread it out so that the entire liner is flat on the ground. The felt liner should not be visible at all once the containment liner is fully spread out.



Step 6

Fold the edges of the containment liner within the pre-marked containment dimensions providing room for the walls to be set. Secure with sand bags so the wind can't get under it and lift it up.

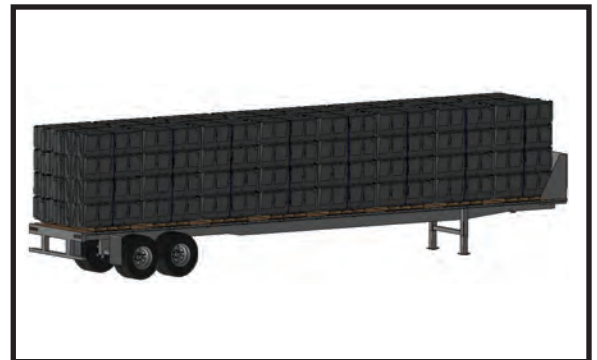


Stage 2

Wall Deployment

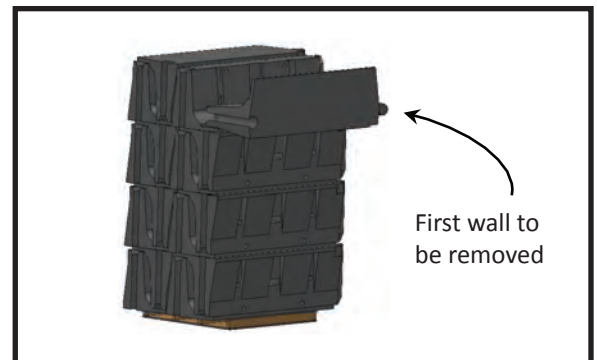
Step 1

Unload trailer with forklift and strategically place the bundles throughout area for deployment.



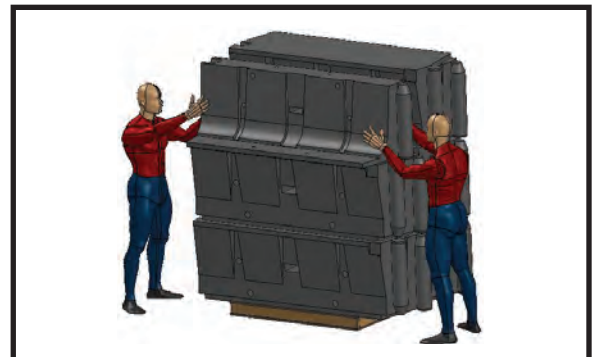
Step 2

Always remove the upside-down wall first. One person on each side lifts the wall up, freeing the securing pegs, then lowers the wall to a comfortable carrying position. **Dropping the Muscle Wall could cause damage and/or personal injury. Handle with care.**



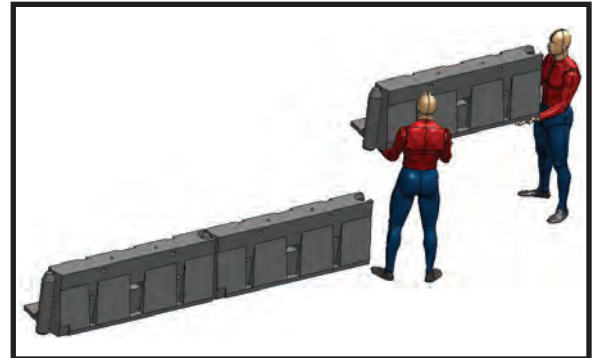
Step 3

When removing the right-side up wall one person stands on each side, slides the wall to the edge, and lowers the wall to a comfortable carrying position.



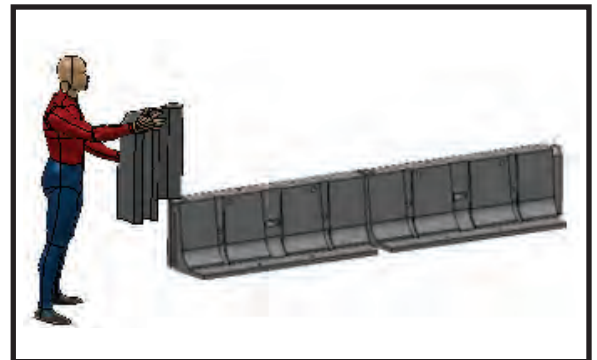
Step 4

One person on each side of the Muscle Wall raises it and rests it on top of the connecting wall until ready to slide into place. Once ready, connect the coupler system and allow the wall to slide into place. **Be sure to exercise proper lifting techniques and to keep hands free of the joint while the Muscle Wall is sliding into place.**



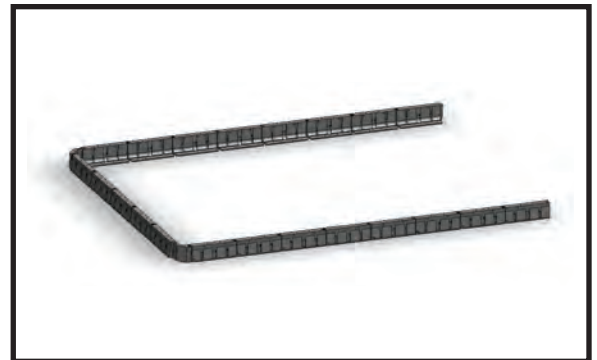
Step 5

One person raises the corner piece and rests the bottom of it on top of the connecting wall until ready to attach. Once ready, connect the coupler system and allow the corner to slide into place.



Step 6

Leave one of the sides of the containment open to allow for the frac tanks to be installed inside.



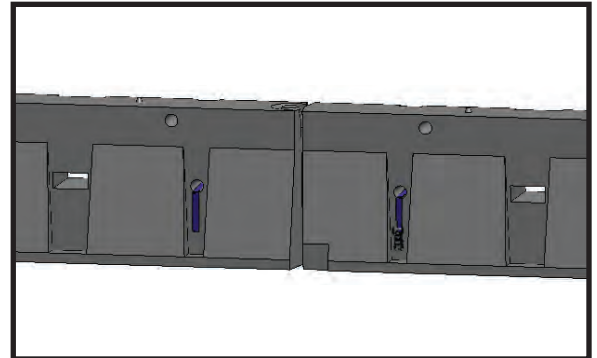
Step 7

Begin filling the walls with water using the trash pump. **Insure that all of the bung plugs are screwed on tight so the walls do not leak.**



Step 8

Feed the straps into the closest holes to the join of the Muscle Wall from the outside of the containment. Don't tighten straps for now.



Step 9

Unfold the containment liner and pull it up and over the three finished walls. Do not pull liner too tight as this may cause tenting which may lead to rips or tears. Leave the liner for the fourth wall flat on the ground to allow the frac tanks to be rolled in.



Stage 3

Frac Tank Deployment

Step 1

Lay a strip of liner or felt on top of the containment liner where the frac tank will be positioned for more protection. Secure with sandbags.

**Step 2**

Back the frac tanks into position inside the containment. **Exercise caution while positioning the frac tank on the liner so as to not puncture the liner.**

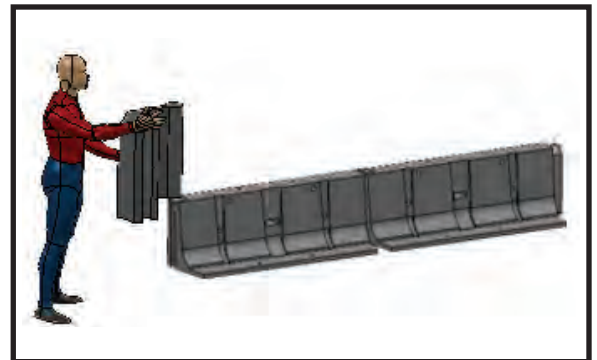


Stage 4

Fourth Wall Deployment

Step 1

Start with one of the remaining corners and connect the walls working to the other corner. Connect the last corner as the last piece of the containment. Refer to steps 4 and 5 of Stage 2 for proper wall installation instructions.



Step 2

Begin filling the last row of walls with water using the trash pump. **Insure that all of the bung plugs are screwed on tight so the walls do not leak.**



Step 3

Unfold the 4th side of the containment liner and pull it up and over the last wall. Do not pull liner too tight as this may be cause tenting which may lead to rips or tears.



Step 4

Secure the liner by cutting a small horizontal slit in the liner, pulling the safety strap through, and ratcheting it down.

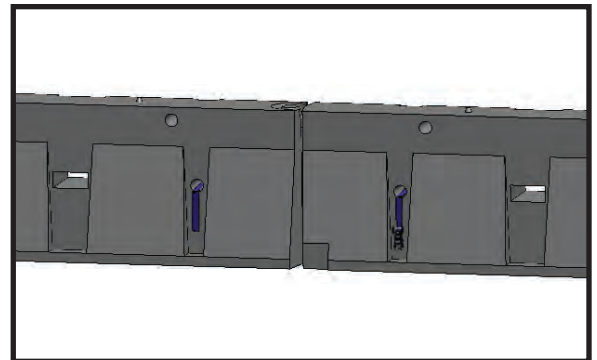


Stage 5

Takedown & Consolidation

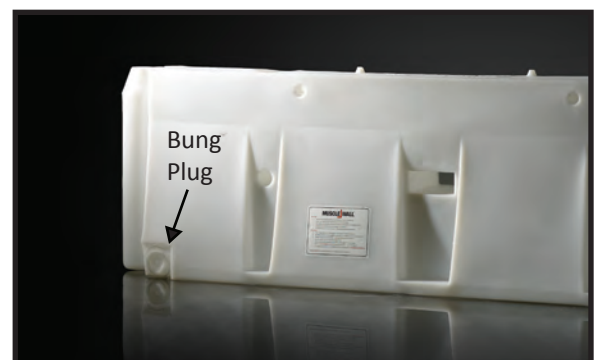
Step 1

Disconnect straps, roll up, and place in a storage container. Remove liner from the wall and fold for future installations. Properly dispose of any contaminated sand and/or sand bags.



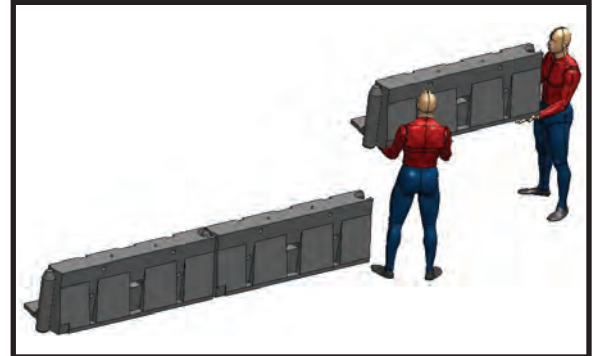
Step 2

Empty the Muscle Wall by using the bung wrench to unscrew the bung plugs on the backside of each wall. Place bung plugs in a secure location where they won't be lost or broken. The trash pump can also be used to pump the water out of the walls' connection.



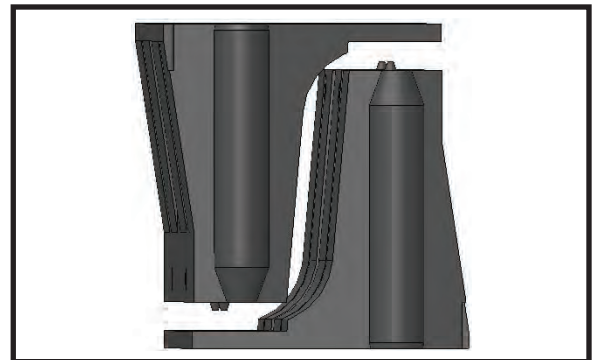
Step 3

Disconnect each Muscle Wall. One person on each side lifts the wall up until the wall is free of its connection.



Step 4

Stack the walls together in the same fashion as they were shipped. Turn one of the walls upside down and lay it on another wall ensuring that the pegs on top of each Muscle Wall are secured into the holes on the toe of the other wall.



Step 5

Stack the Muscle Wall back on their original pallets in the same fashion as they were shipped. Ensure that all of the male ends of the walls are on the same side. Run a safety strap all the way around the bundle securing it to the pallet. Transport to storage location.

