



Emergency Construction Sandbags

- Typical uses:
 - Where a low and relatively short barrier is required
 - Constricted areas where there is no room for earthfill levees
 - ex. back yards, buildings close to channel
 - Closures / temporary closures
 - ex. Roads, railroad tracks



Emergency Construction Sandbags

- Design section:
 - 1:3 cross section (1 foot high for 3 foot width)
 - 5 foot maximum height
 - 3 foot or less height preferred



Filling Sandbags

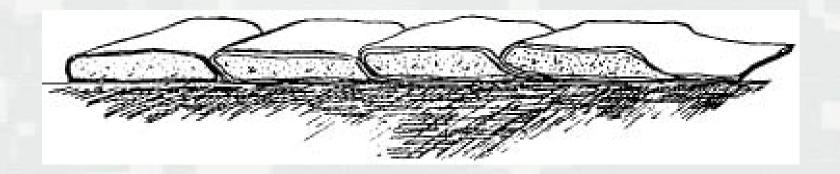
- Fill sacks approximately ½ full
- Do not tie sacks



Placement of Sandbags

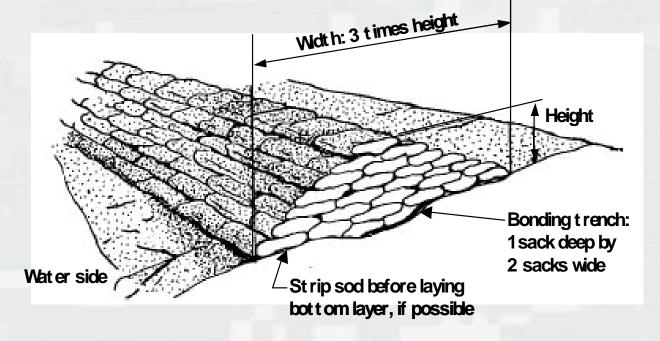
- Start upstream
- Where possible, strip sod / topsoil
- Where possible, excavate bonding trench 1 sack deep by 2 sacks wide
- Alternate direction of placement of bags with bottom layer parallel to flow
- Lap unfilled portion of sandbag under new sack



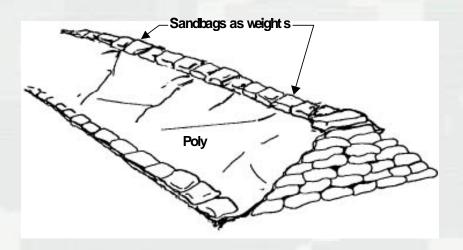


Overlap unfilled portion of sack with filled portion of next sack









Place poly on wet side of sandbag closure to prevent / reduce seepage



Number of sandbags required per foot of closure vs. sandbag closure height

Height in Feet	Bags Required
1	5
2	10
3	21
4	36
5	55





Sandbag placement exercise





Sandbag ring levee with poly on inside face to prevent seepage





Sandbag ring levee to contain seepage





Sandbags placed at apartment building



Seepage/Erosion Protection: Polyethylene Sheeting and Sandbags

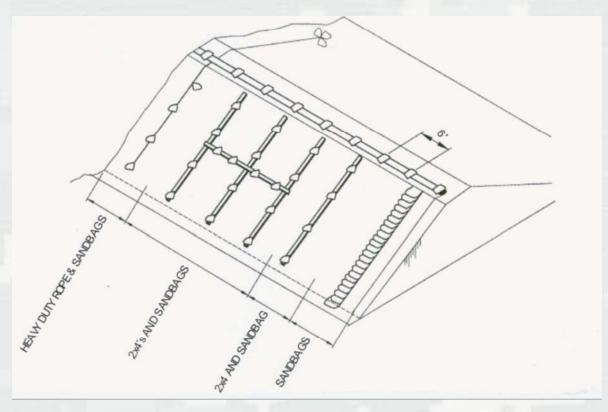


Seepage/Erosion Protection: Polyethylene Sheeting and Sandbags

- Polyethylene (poly) Sheeting ~6 mil thick
- Sandbags used to anchor poly in place
- Placement is fairly quick
- Materials inexpensive
- Place materials in the dry or in the wet



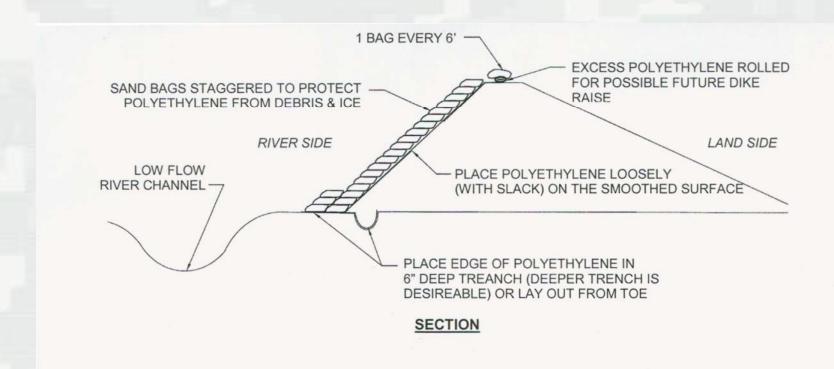
Seepage/Erosion Protection: Poly Sheeting and Sandbags (cont)



Placement of poly sheeting and sandbags in the dry



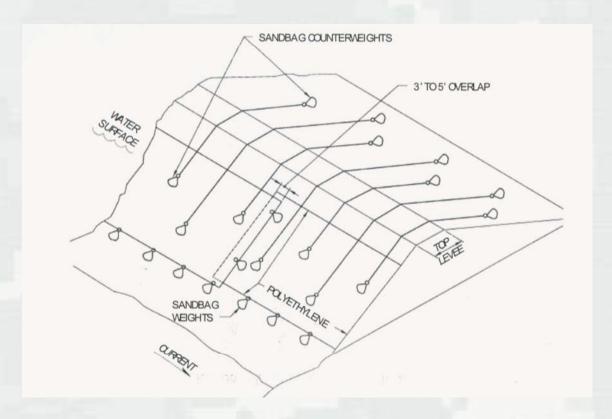
Seepage/Erosion Protection: Poly Sheeting and Sandbags (cont)



Placement of poly sheeting and sandbags in the dry



Seepage/Erosion Protection: Poly Sheeting and Sandbags (cont)



Placement of poly sheeting and sandbags in the wet





Placement of poly on riverward side of levee to prevent seepage / erosion. Poly weighted down with sandbags





Placement of poly on riverside of levee to prevent erosion / seepage

