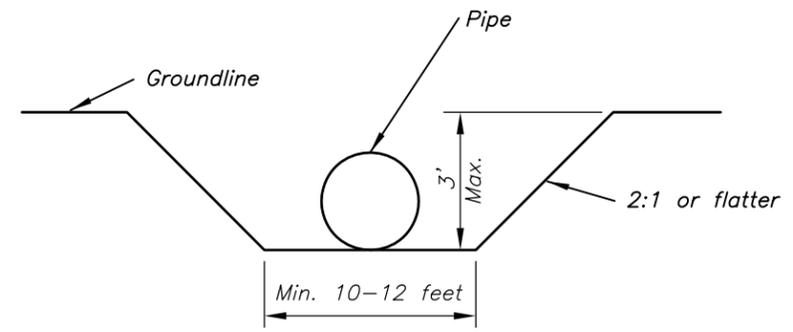
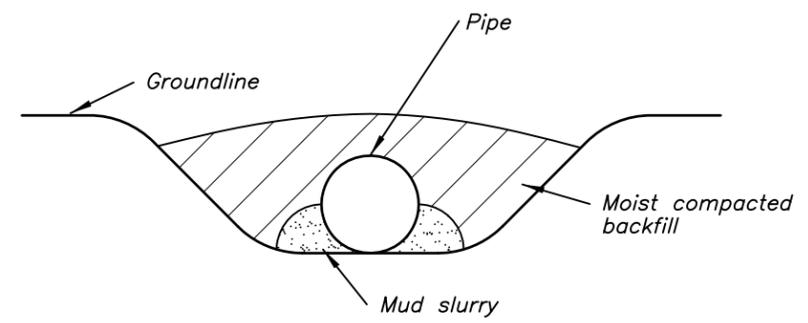


PIPE PROFILE



SECTION A-A BEFORE WATER PACKING



SECTION A-A AFTER WATER PACKING

STEPS:

1. Excavate pipe trench similar to section A-A as needed to install pipe to lines and grades shown on drawings.
2. Install pipe, sand diaphragm and diaphragm outlet drain. See Drawing No. 29-N-121 for diaphragm installation steps. The contractor shall employ a method of restraining the pipe that will prevent movement during backfill.
3. Install compacted dike at lower end of pipe trench to contain water.
4. Dump several hundred gallons of water down pipe trench which will pond water upstream of temporary dike to a depth half way up on pipe.
5. Bring moist loose friable soil in from the sides and push into water making a slurry (mud). Keep bringing the soil in from the sides and force the mud all around the bottom half of pipe. Earth lift shall not exceed 8 inches in thickness prior to compaction. Compact thoroughly with complete coverage of the tracks of the dozer. Place backfill in a manner to eliminate any voids around the pipe. Each side should be backfilled at same rate to avoid pushing pipe to one side. Direction of soil placement will be towards pipe and upstream. This backfill will move the remaining water up the slope. Mound the moist compacted soil at least 12 inches over the pipe before crossing with equipment.
6. Discontinue water packing within 3 feet of the sand diaphragm. Place compacted backfill over the bottom part of the sand diaphragm according to Sheet 2 of Drawing No. 29-N-121. The backfill over the bottom part of the sand diaphragm may be used as a dike to contain water for water packing the pipe upstream from the diaphragm.
7. Continue step 5 until pipe is completely backfilled. Add water as needed to keep mud slurry around bottom half of pipe.
8. Equipment used shall be a dozer. Low ground pressure dozers are not permitted.

Date	
Designed	
Drawn	
Checked	
Approved	

WATER PACKING OF STEEL PIPE



DRAFT
NOT FOR
CONSTRUCTION

File Name	
Drawing Name	29-N-119B
Sheet	of