Temporary Pipe Slope Drain

PURPOSE:
Temporary pipe slope drains are used to convey concentrated runoff down the face of a cut or fill slope without causing erosion on or below the slope.

IMPLEMENTATION:
• The maximum allowable drainage area is 5 acres per slope drain.
• Used until permanent water disposal measures can be installed and/or permanent vegetation is established.
• The slope of the pipe must be 3% or greater.

DESIGN:
• The slope drain can be constructed from corrugated metal pipe, heavy duty non-perforated corrugated plastic pipe, or a specifically designed flexible tubing.
• Silt fence or an earthen dike shall be used to channel the flow of water to the temporary pipe slope drain.
• The entrance section to the drain shall be well entrenched and stable so that surface water can enter freely.
• The temporary pipe must be anchored a minimum of every 10 feet with extra anchoring at the outlet.
• The drain should extend beyond the toe of slope and terminate in a 4-foot level section where practical.
• A riprap apron shall be installed below the pipe outlet where water is being discharged for stabilization.
• If the area being drained is disturbed, a sediment trap shall be used at the outlet end of the drain.

INSPECTION/MAINTENANCE:
• Temporary Pipe Slope Drains are to be inspected by the resident engineer and contractor every 7 calendar days and after a storm event of ½” or greater (including snowfall).
• The contractor should avoid the placement of any material over the pipe or its inlet and prevent construction traffic from crossing over the pipe.