

Developing a SESC Plan

After conducting the on-site field investigation and reviewing all possible information sources, it is time to develop the SESC plan. Rule 1703 promulgated under Part 91 serves as our guide to develop and effective SESC plan.

1. Site location map, legal description of property, and scaled map showing property boundaries (Figure 4-8).



Figure 4-8: Location Map

2. The proximity of the earth change to lakes, streams, wetlands and other predominant land features (Figure 4-9).

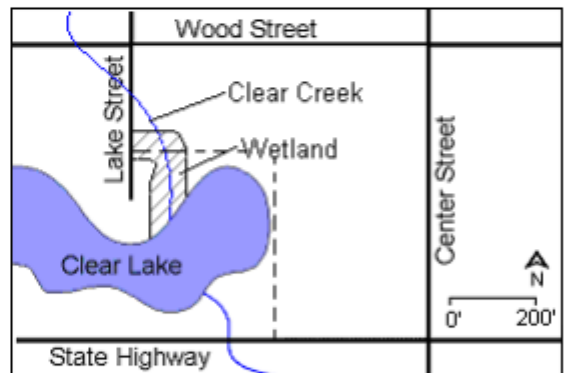


Figure 4-9

3. Description of on-site soils (Figure 4-10).



Figure 4-10

4. Existing and proposed elevations or slope description (Figures 4-11A and 4-11B).

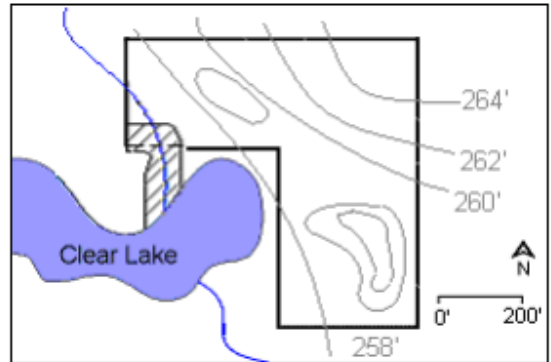
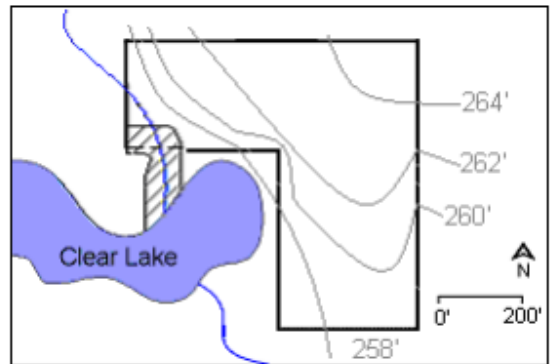


Figure 4-11A (existing)



Figures 4-11B (proposed)

5. Physical limits of the earth change (Figure 4-12).

6. A description of existing and proposed drainage and dewatering facilities.

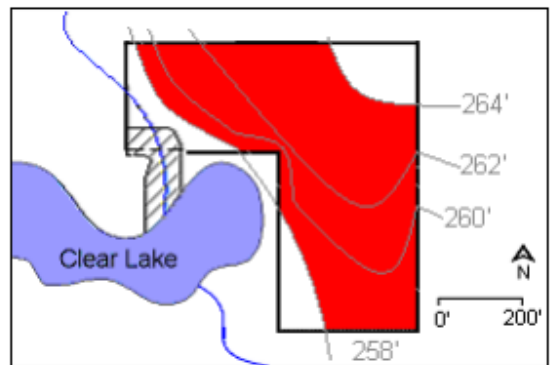


Figure 5-12

7. Timing and sequencing of earth change activities and implementation of SESC measures. (Figure 4-13; also see Appendix 4A or 4B.)

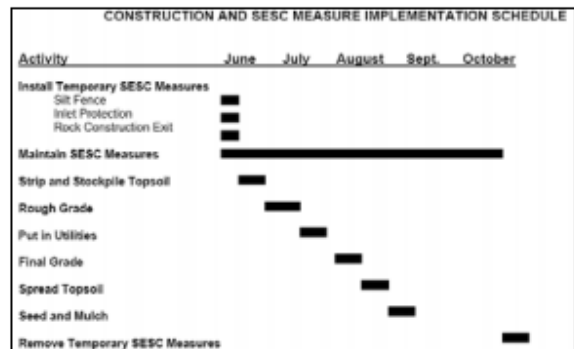


Figure 5-13

8. Description and location of all proposed temporary (Figure 4-14) and permanent SESC control measures.

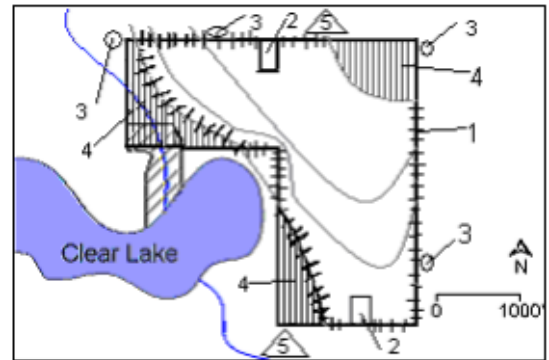


Figure 5-14

9. Proposal for continued maintenance of all permanent SESC measures.

SESC KEY		
Number	Control	Symbol
1	Silt Fence	
2	Rock Construction Exit	
3	Inlet Protection	
4	Retain Existing Vegetation	
5	Daily Street Sweeping	

(Key for Figure 4-14)

The location of all control measures should be identified on the SESC plan. If the material list specifies 200 feet of silt fence, the placement of the silt fence should be delineated on the plans. Similarly, if check dams are required in a roadside ditch, the relative locations of those check dams should be identified on the plan. Each control measure should be labeled on the plan, i.e., silt fence, check dam, etc. or identified by a symbol or code number such as found in the MDMB's "SESC Keying System" (Figure 4-15) or the MDOT's "Applicable SESC Measures" (Figure 4-16). Both documents assign a number and symbol to each SESC measure. The SESC plan must indicate which of the keying systems is being used.

Department of Management and Budget		
S51	SILT FENCE	
S52	CATCH BASIN SEDIMENT GUARD	
S53	STABILIZED CONSTRUCTION ACCESS	

Figure 4-15

Department of Transportation		
36	CONSTRUCTION DAM	Used to create a dry or slack water area for construction. Protects the stream from non-erodible areas. Can be created out of any non-erodible materials such as SAND AND STONE SANDS (KEY 34), a gravel dike with clay core or plastic liner, steel plates or plywood.
37	CHECK DAM	Can be constructed across ditches or any area of concentrated flow. Protects vegetation in early stages of growth. A Check Dam is intended to reduce water velocities and capture sediment. A Check Dam is not a filtering device.

Figure 4-16

Another option is for the plan developer to create his or her own legend, such as the one depicted in Figure 4-14 above, using symbols or numbers to depict various control measures. If this option is used, the plan developer must also include details on how to install or maintain the specified SESC measures (Figure 4-17). If the the MDTMB or MDOT manuals are used, installation details are provided for each of the suggested control measures.

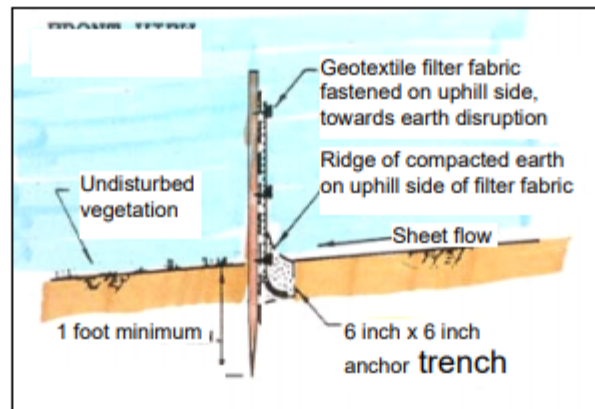
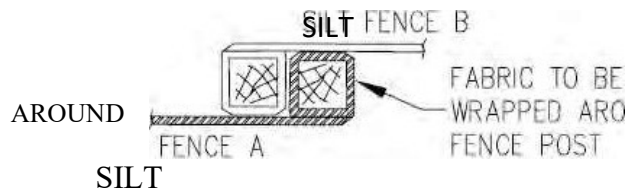
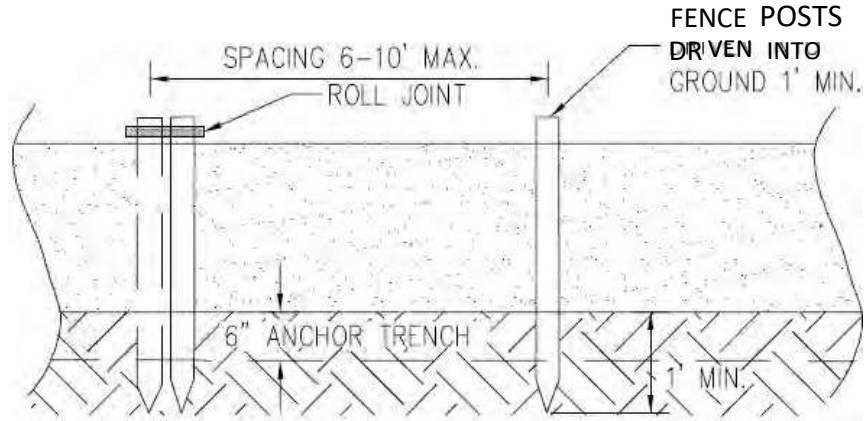
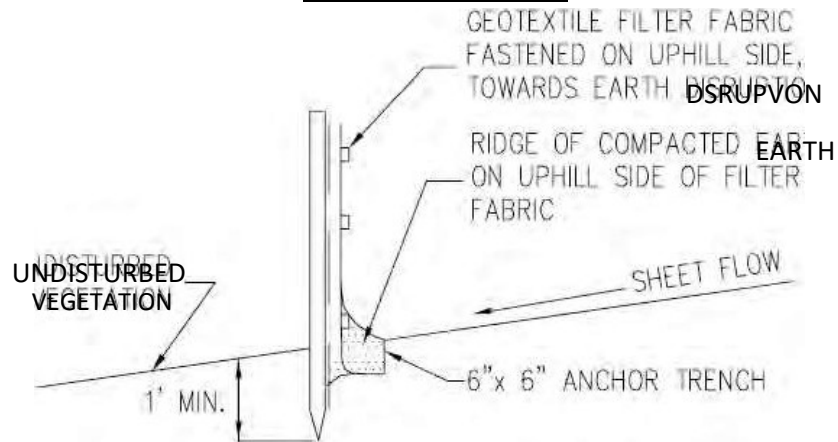


Figure 4-17



ROLL JOINTS



Source: State of Michigan, Department Of Management and Budget, SESC Guidebook