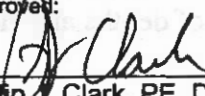


|                                                                                                                                                                                                                                                                                                                                                        |                                                                                    |                                                                                                                                                                                                                                                             |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>To:</b><br><b>SUPERSEDED BY EI 09-035</b><br><b>EFFECTIVE 9/02/10</b>                                                                                                                                                                                                                                                                               |  | <b>New York State</b><br><b>Department of</b><br><b>Transportation</b><br><b>ENGINEERING</b><br><b>INSTRUCTION</b>                                                                                                                                          | <b>EI</b><br><b>05-022</b> |
| <b>Title: REVISED STANDARD DETAILS FOR TURBIDITY CURTAINS</b>                                                                                                                                                                                                                                                                                          |                                                                                    |                                                                                                                                                                                                                                                             |                            |
| <b>Distribution:</b><br><input checked="" type="checkbox"/> Manufacturers (18)<br><input checked="" type="checkbox"/> Local Govt. (31)<br><input checked="" type="checkbox"/> Agencies (32)<br><input type="checkbox"/> Surveyors (33)<br><input checked="" type="checkbox"/> Consultants (34)<br><input checked="" type="checkbox"/> Contractors (39) |                                                                                    | <b>Approved:</b><br><br>Philip J. Clark, PE, Deputy Chief Engineer,<br>Design Division<br><div style="text-align: right;"> <b>06/06/05</b><br/>         Date       </div> |                            |

#### ADMINISTRATIVE INFORMATION:

- This Engineering Instruction (EI) is effective beginning with projects submitted for the letting of January 12, 2006.
- The detail transmitted with this EI supersedes Standard Sheet M209-8 Soil Erosion and Sediment Control Turbidity Curtain.
- The detail transmitted with this EI will eventually reside in the NYSDOT Standard Sheets.
- This EI does not supersede any previous EIs.

**PURPOSE:** This EI issues standard details for Turbidity Curtains installation.

#### TECHNICAL INFORMATION:

- The attached revised standard details for turbidity curtains replace Standard Sheet M209-8 for Turbidity Curtains, previously included in the contract documents by reference.
- This EI is issued in conjunction with EI 05-021 and EI 05-023.
- The Designer shall incorporate the standard details issued with this EI, as required, in contract documents in conjunction with the special specification 209.1501—24 (i.e., MicroStation Detail Cell Library ny\_detail\_miscellaneous.cel).
- Revised Standard Sheets will be issued in the near future. We have identified other changes that need to be made in the Standard Details and will reissue these Standard Sheets when all of the changes can be completed.

#### TRANSMITTED MATERIALS:

- Revised standard details for Turbidity Curtains.

**BACKGROUND:**

At present time, NYSDOT uses only a single turbidity curtain, (see the turbidity curtain details on Standard Sheet M209-8). The current detail is covered by Standard Specification §209-3.09.

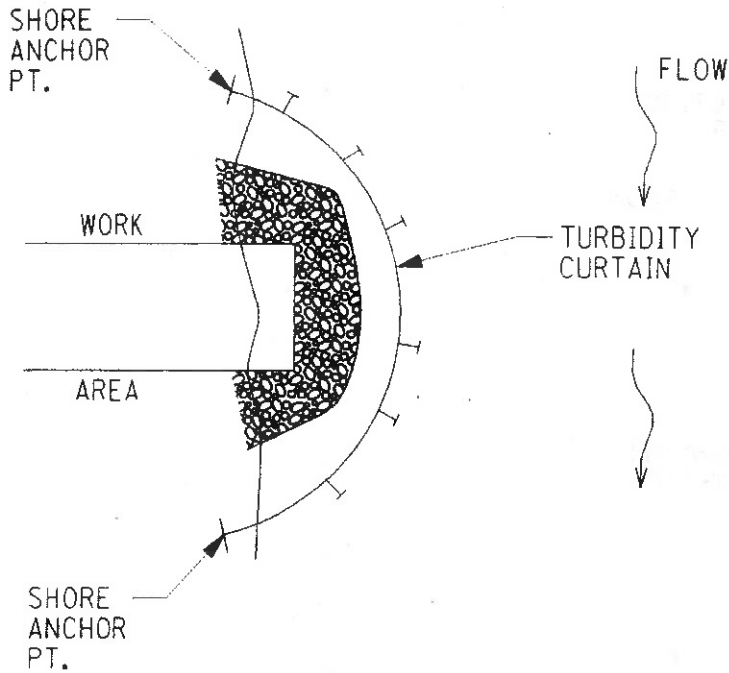
Commercially available products provide much better performance than barriers allowed by our current specifications. Properly selected and installed, turbidity curtains should meet our water quality assurance needs for a much greater range of depths and flow velocities than we now employ.

**CONTACT:**

Direct questions regarding this EI to George Long (Structures Division) 518/457-9730 (e-mail: [glong@dot.state.ny.us](mailto:glong@dot.state.ny.us)), or Gary Glath (Landscape Architecture Bureau) (518) 457-4460, (e-mail: [gglath@dot.state.ny.us](mailto:gglath@dot.state.ny.us)).

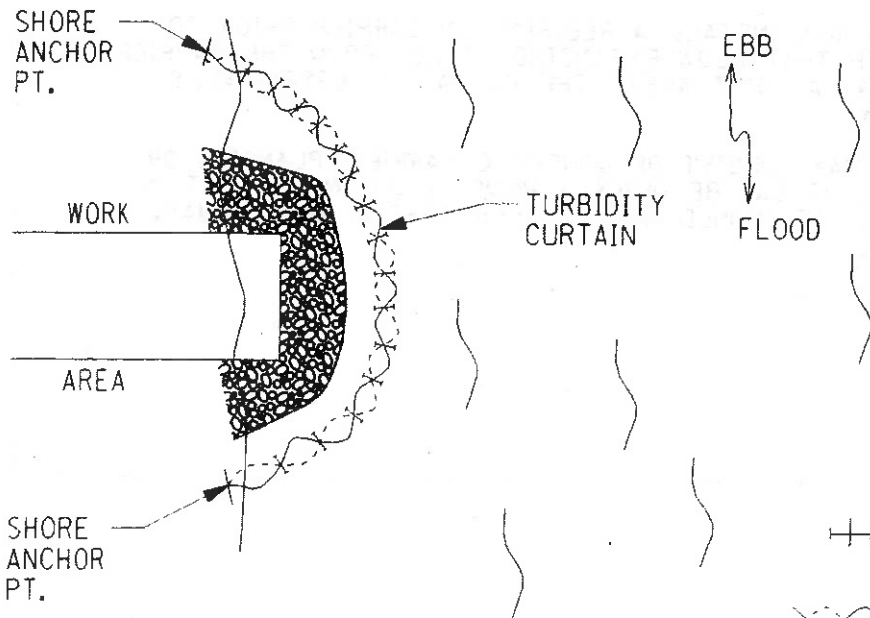
# Revised Standard Details for Turbidity Curtains

## TYPICAL LAYOUTS PONDS, LAKES & STREAMS FLOW VELOCITY $\leq 1.5$ m/s



—| STAKE, POST OR ANCHOR  
EVERY 30 m MAX.

## TIDAL WATERS AND/OR HEAVY WIND & WAVE ACTION

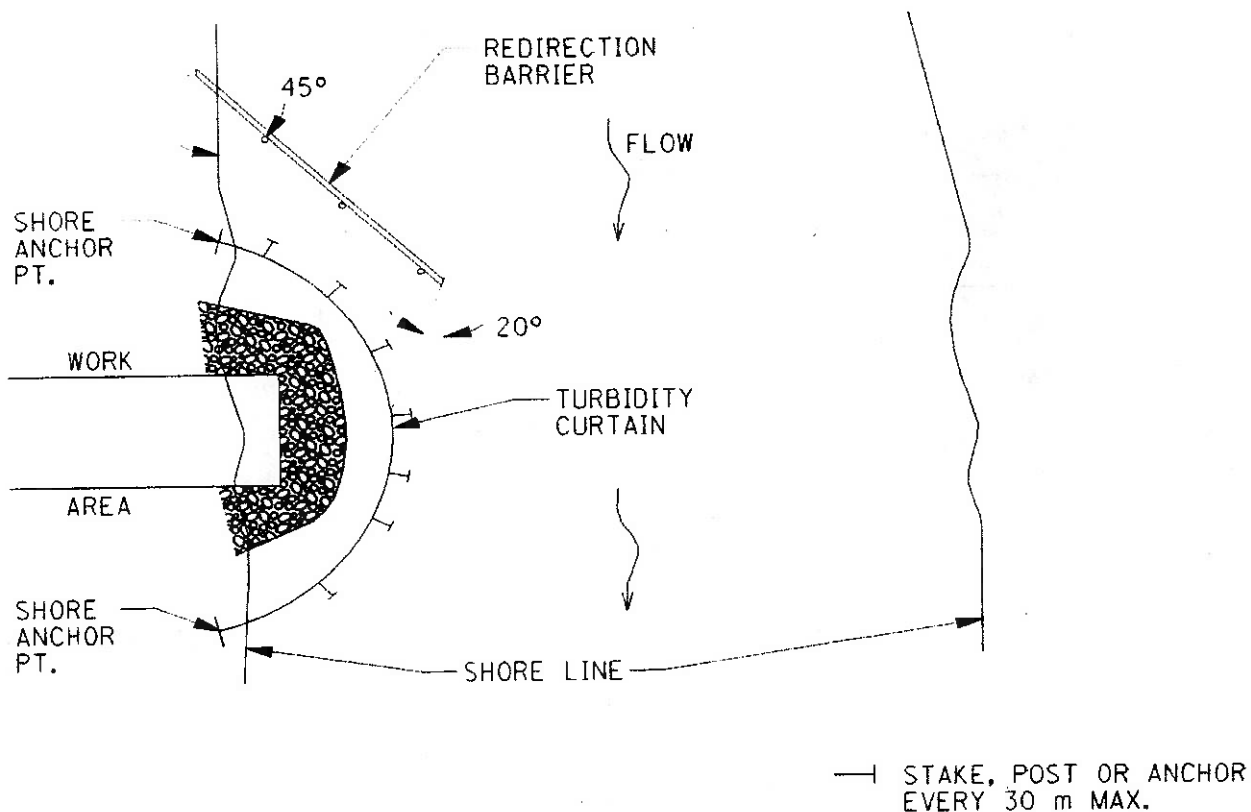


+ STAKE, POST OR ANCHOR  
POINTS EVERY 30 m MAX.

⋈ BARRIER MOVEMENT  
DUE TO TIDAL CHANGE

## Revised Standard Details for Turbidity Curtains

### STREAMS, FLOW VELOCITY >1.5 m/s



FOR FLOW VELOCITIES >1.5 m/s INSTALL A REDIRECTION BARRIER PRIOR TO CURTAIN INSTALLATION SUCH THAT FLOW EXPANDING AT 20° FROM THE BARRIER WILL REACH THE CURTAIN AT A POINT WHERE THE CURTAIN IS ESSENTIALLY PARALLEL TO STREAM FLOW.

THE REDIRECTION BARRIER MAY CONSIST OF CONCRETE BARRIER, PLANKING OR OTHER MATERIAL SUCH THAT IT CAN BE QUICKLY REMOVED OR WASHED OUT IN THE EVENT OF HIGH FLOWS. IT SHOULD NOT BE SUCH THAT IT WILL REMAIN IN PLACE AND OVERTOPPED.