Pylon Barrier Background & Scope

The pylon barrier was requested to handle turbidity during maintenance work on a bridge. The DOT requirements stated that the silt and debris should be contained within the work area and not spread into the surrounding water body. This barrier is part of product solutions for piling protection.

Challenge:

The current flow is very high, especially at the tidal change. This limits the use of a traditional silt barriers in this application.

Work Area:

- 1 ft. below water level to
- +- 7 ft. above the water level
Option: Pylon Work, Side View (sectioned)

Notes:

-Diameter of pylon to be established

-Maintaining space between pylon and float to allow for good working area to be discussed (Anchor points OR stand off post(s))

-There will be a split in the floats/skirt to allow it to be able to go around the post (this needs to be laced once it is in place.)

Bottom of silt screen has draw string that can be pulled tightly around the pylon.

Skirt Allowing 3 foot of space between pylon side and float

6 inch Float

+ 6 foot

40 Inch

8 foot

6 inch Float
Pylon Piling And Bridge Repair Protection

Typical Turbidity Barrier Assembly & Installation

Benefits:

- Small area where fallen debris can be easily managed.
- Useful in high current situations.

Stand of Pockets (reinforced: size 2 x 4 inch)

3 x anchor points if needed

Laced

6 foot

3 x anchor points if needed

Benefits:

- Small area where fallen debris can be easily managed.
- Useful in high current situations.

Side View, Debris Area
Option: Overhead Debris Work—Top View

Anchor points as needed, connected to aluminum bar
6 inch floats

Benefits:
- Useful in high current situations
- “Prevention” method floats on top of the water thus helping to prevent debris falling in the water.