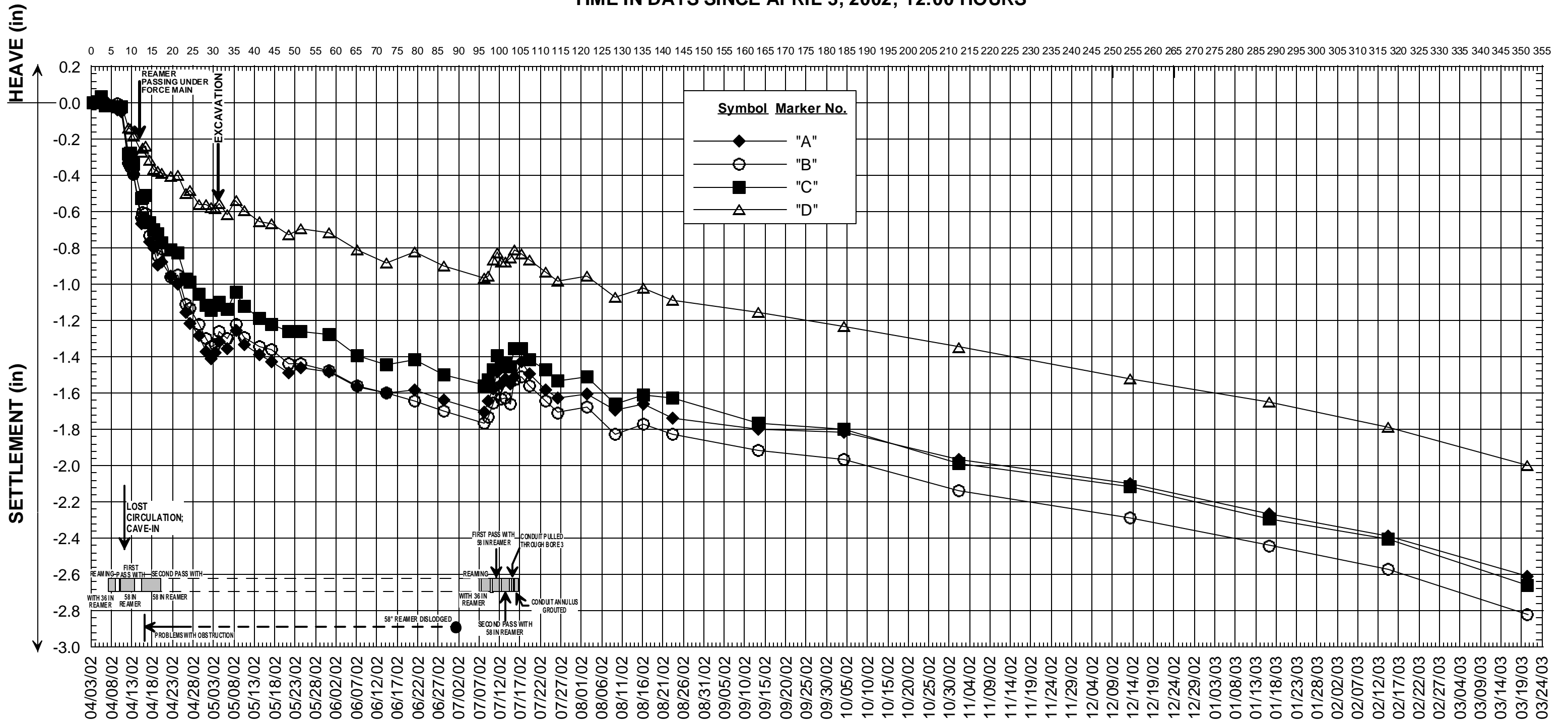


TIME IN DAYS SINCE APRIL 3, 2002; 12:00 HOURS



TIME IN DAYS SINCE APRIL 3, 2002; 12:00 HOURS

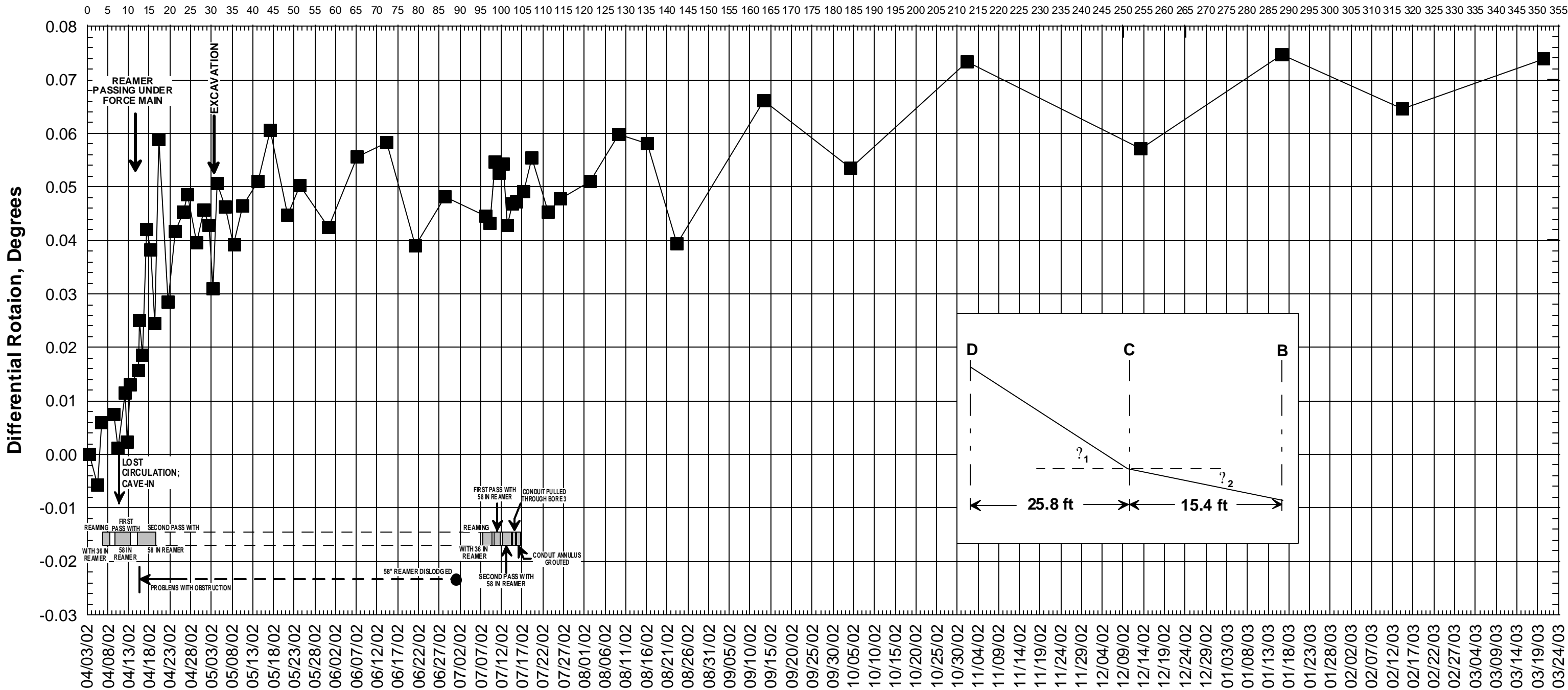
VERTICAL MOVEMENTS OF CONTRACTOR STANCHION MARKERS VERSUS TIME

Booster Pump Station
 Islais Creek Project
 April 2003
 28065822
 City and County of San Francisco
 San Francisco, California



PLATE

TIME IN DAYS SINCE APRIL 3, 2002; 12:00 HOURS



TIME IN DAYS SINCE APRIL 3, 2002; 12:00 HOURS

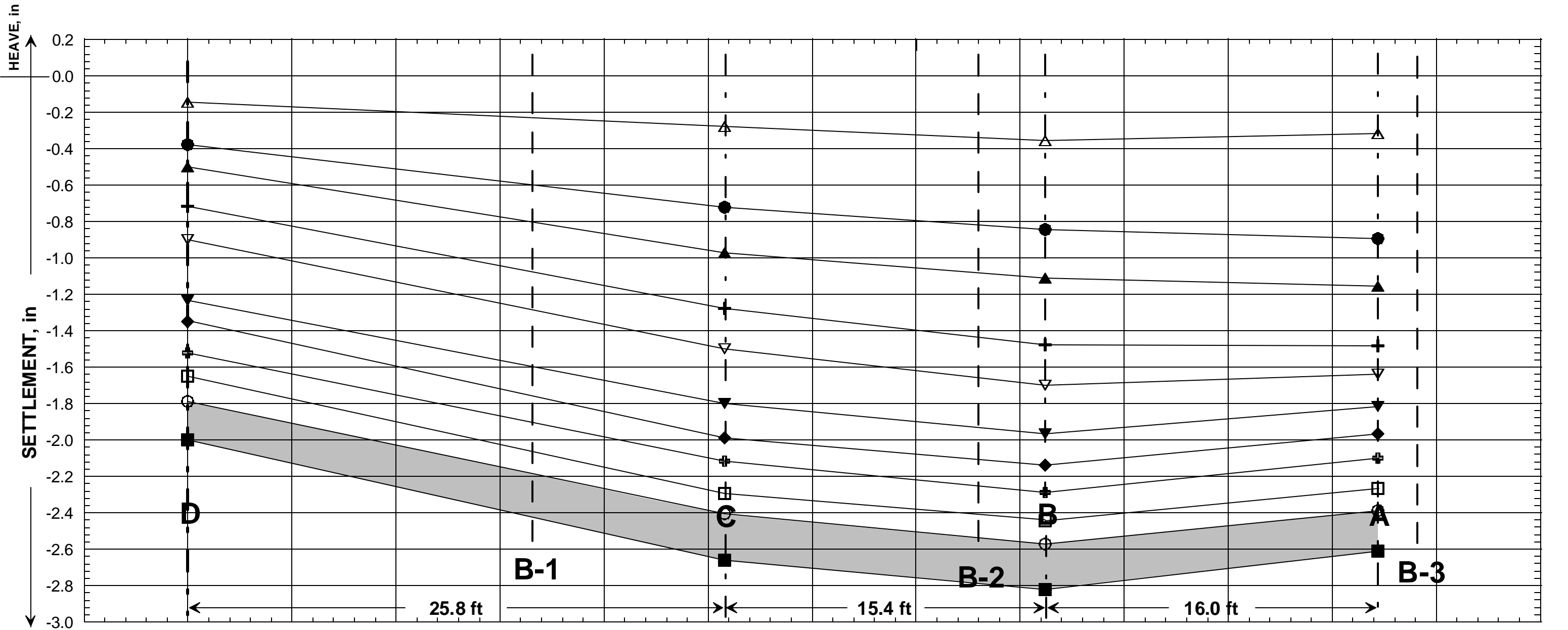
NOTE: ☆ Positive differential rotation angles mean that differential movements of stanchion marker "C" are larger with respect to stanchion marker "D".
 ☆ Negative differential rotation angles mean that differential movements of stanchion marker "C" are larger with respect to stanchion marker "B".

DIFFERENTIAL ROTATION BETWEEN STANCHION MARKERS "C-D" AND "C-B" ($?_1 - ?_2$)

Booster Pump Station
 Islais Creek Project
 April 2003
 City and County of San Francisco
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 San Francisco, California



PLATE



Symbol	Date
—	Base Line
△	04/12/02
●	04/19/02
▲	04/26/02
⊕	05/02/02
+	05/31/02
▽	06/28/02
▼	10/04/02
◆	11/01/02
⊕	12/13/02
□	01/16/03
○	02/14/03
■	03/20/03

02/14/03 - 03/20/03

DIFFERENTIAL VERTICAL MOVEMENTS OF CONTRACTOR STANCHION MARKERS ALONG FORCE MAIN

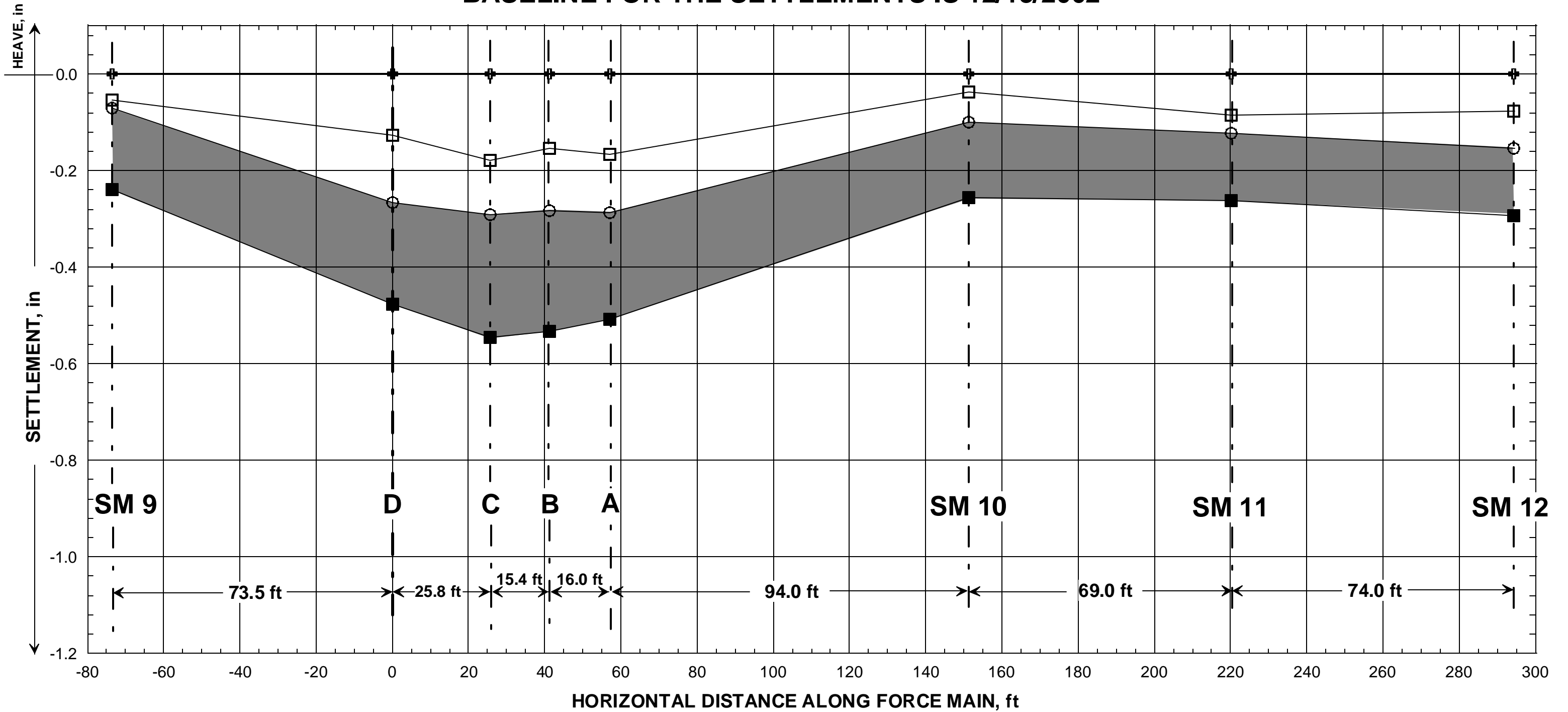
March 2003 Islais Creek Project

28065822 Booster Pump Station
San Francisco, California



PLATE

BASELINE FOR THE SETTLEMENTS IS 12/13/2002



Symbol	Date
—+—	Base Line (12/13/02)
—□—	01/16/03
—○—	02/14/03
—■—	03/20/03

■ 02/14/03 - 03/20/03

DIFFERENTIAL VERTICAL MOVEMENTS OF CONTRACTOR STANCHION MARKERS A, B, C, & D, AND SETTLEMENT MARKERS SM 9, SM 10, SM 11, & SM 12, ALONG THE FORCE MAIN

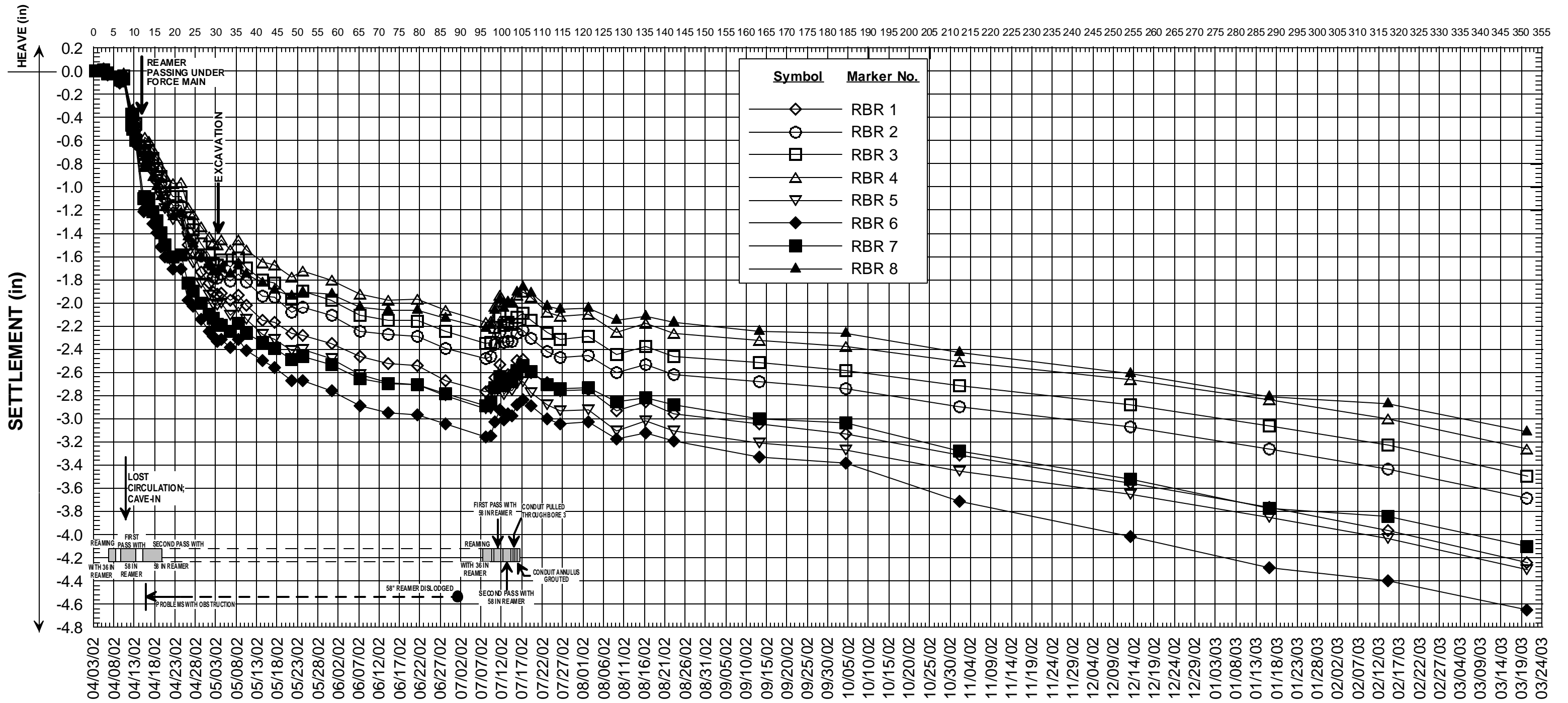
Booster Pump Station
 Islais Creek Project
 City and County of San Francisco
 San Francisco, California

April 2003
 28065822



PLATE

TIME IN DAYS SINCE APRIL 3, 2002; 12:00 HOURS



TIME IN DAYS SINCE APRIL 3, 2002; 12:00 HOURS

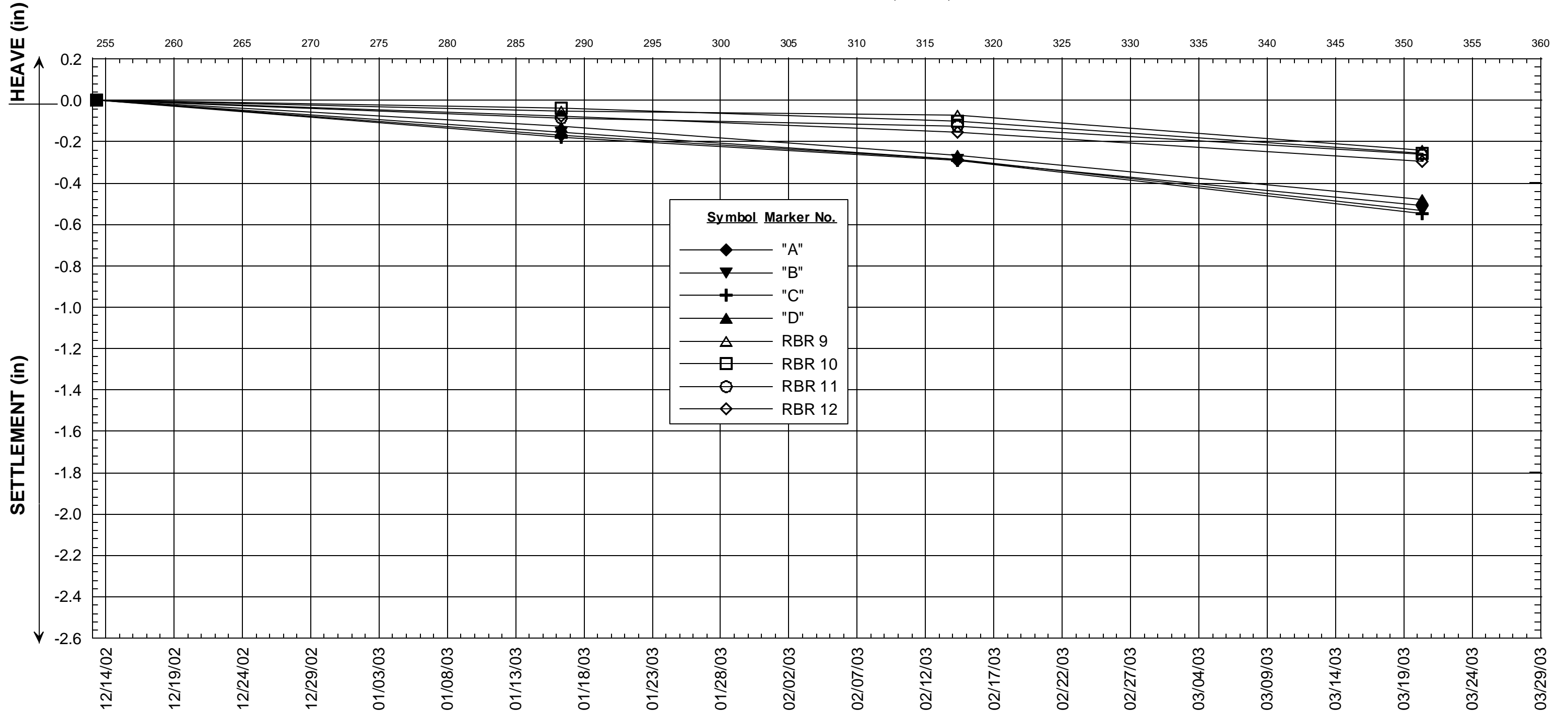
VERTICAL MOVEMENTS OF REBAR IN WELL SETTLEMENT MARKERS VERSUS TIME

Booster Pump Station
 Islais Creek Project
 April 2003
 28065822
 City and County of San Francisco
 San Francisco, California



PLATE

TIME IN DAYS SINCE DECEMBER 13, 2002; 9:00 AM



TIME IN DAYS SINCE DECEMBER 13, 2002; 9:00 AM

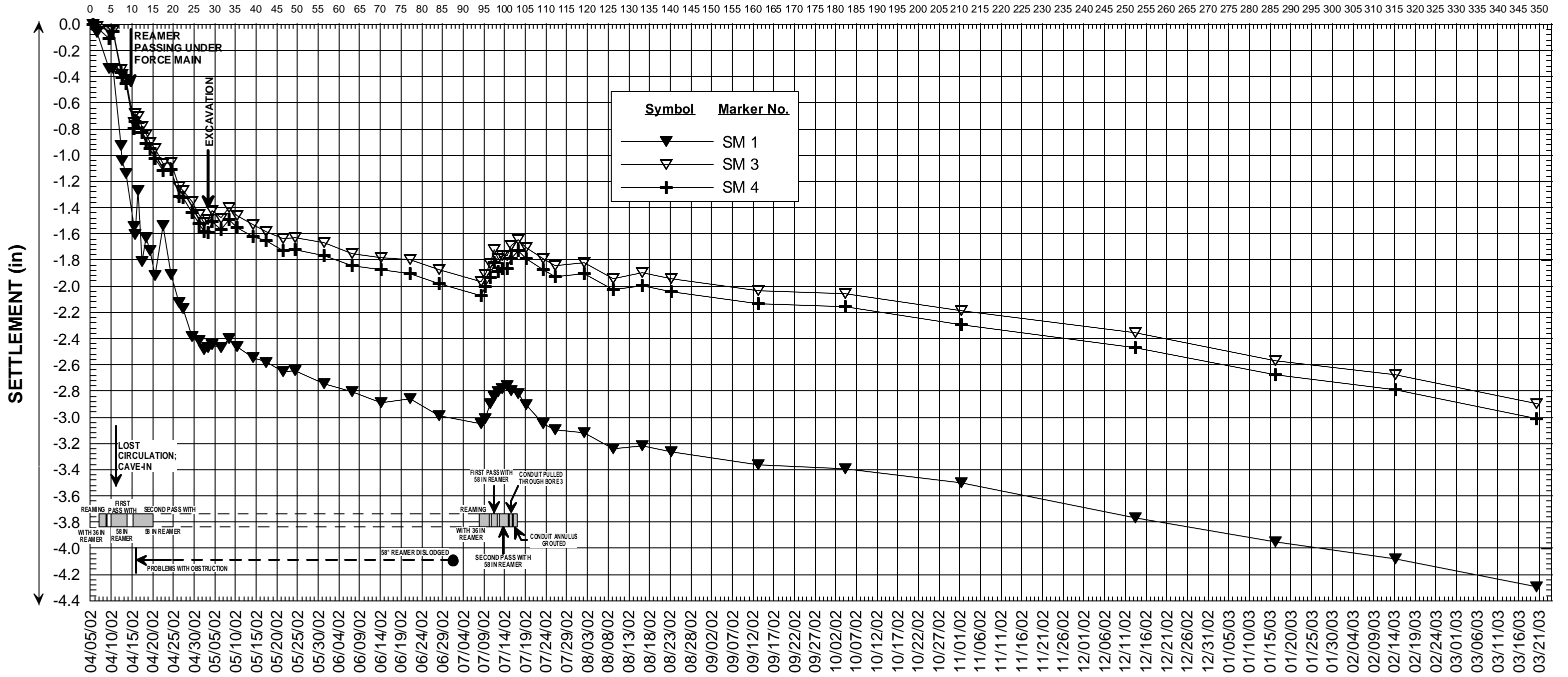
INCREMENTAL VERTICAL MOVEMENTS OF CONTRACTOR STANCHION MARKERS AND SURFACE MARKERS VERSUS TIME

Booster Pump Station
 Islais Creek Project
 City and County of San Francisco
 San Francisco, California
 April 2003
 28065822



PLATE

TIME IN DAYS SINCE APRIL 3, 2002; 12:00 HOURS



TIME IN DAYS SINCE APRIL 5, 2002; 12:00 HOURS

VERTICAL MOVEMENTS OF SETTLEMENT MARKERS VERSUS TIME

Booster Pump Station
 Islais Creek Project
 City and County of San Francisco
 San Francisco, California

April 2003
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PLATE