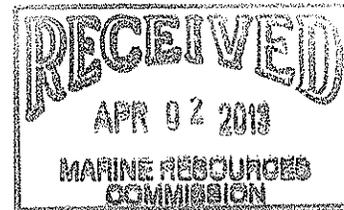


SURVEY NOTES:

1. SOUNDINGS WERE TAKEN USING A MULTIBEAM SONAR OPERATING AT 204KHz AND A DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) WAS USED TO OBTAIN HORIZONTAL POSITIONS.
2. ALL SOUNDINGS ARE IN FEET AND ARE REFERRED TO MEAN LOWER LOW WATER (MLLW) AS ESTABLISHED BY NATIONAL OCEAN SURVEY (N.O.S.) AT NEWPORT NEWS AT THE JAMES RIVER ENTRANCE AND IS 1.60 FEET BELOW THE NAVD88.
3. T.B.M. USED WAS A CHISEL SQUARE LOCATED ON THE SOUTHEAST CORNER OF MOORING BOLLARD, SOUTHSIDE OF PIER AT BASELINE STATION 0+00. ELEV.=13.73' M.L.L.W. TIDAL EPOCH 1983-2001
4. COORDINATES ARE IN U.S. SURVEY FEET REFERRED TO VIRGINIA STATE GRID (SOUTH ZONE) BASED ON NAD83.
5. HYDROGRAPHIC SURVEY WAS CONDUCTED ON JUNE 25 & JULY 9, 2012.

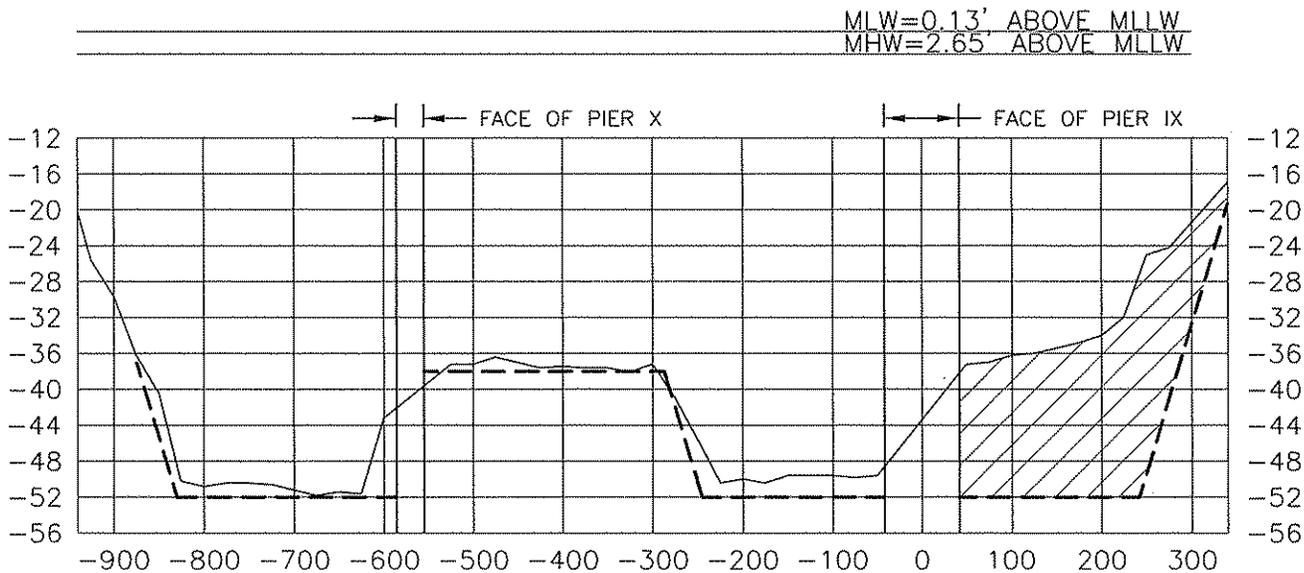


PURPOSE: BERTH WIDENING
DATUM: N.O.S. MLLW=0.0'
ADJACENT PROPERTY OWNERS:
 ① VIRGINIA PORT AUTHORITY
 ② DOMINION TERMINAL ASSOCIATES

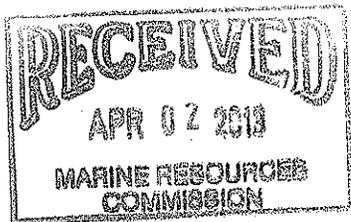
**LOCATION
MAP**
 PREPARED BY:
Waterway
 Surveys & Engineering, Ltd.
 Virginia Beach, Virginia

PROPOSED PIER IX BERTH WIDENING
IN: JAMES RIVER
CITY: NEWPORT NEWS **STATE:** VIRGINIA
APPLICATION BY: KINDER MORGAN TERMINALS

SCALE: N.T.S. **DATE:** MARCH 15, 2013
SHEET 1 OF 3



SECTION A-A



PURPOSE: BERTH WIDENING
DATUM: N.O.S. MLLW=0.0'
ADJACENT PROPERTY OWNERS:
① VIRGINIA PORT AUTHORITY
② DOMINION TERMINAL ASSOCIATES

CROSS SECTION
PREPARED BY:
Waterway
Surveys & Engineering, Ltd.
Virginia Beach, Virginia

PROPOSED PIER IX BERTH WIDENING
IN: JAMES RIVER
CITY: NEWPORT NEWS STATE: VIRGINIA
APPLICATION BY: KINDER MORGAN TERMINALS
SCALE: H:1"=200'
V:1"=20' DATE: MARCH 15, 2013
SHEET 3 OF 3