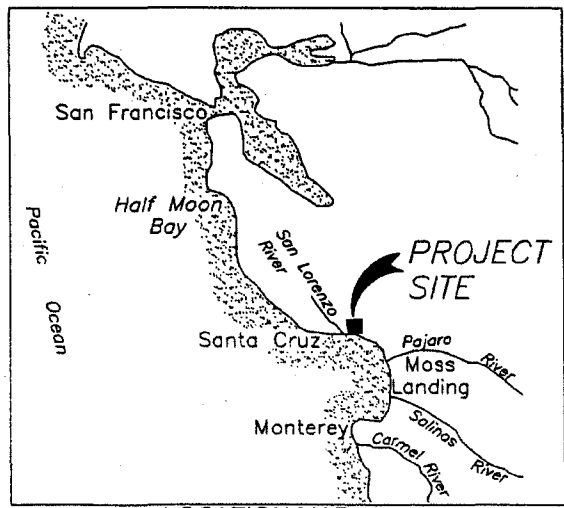
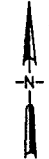
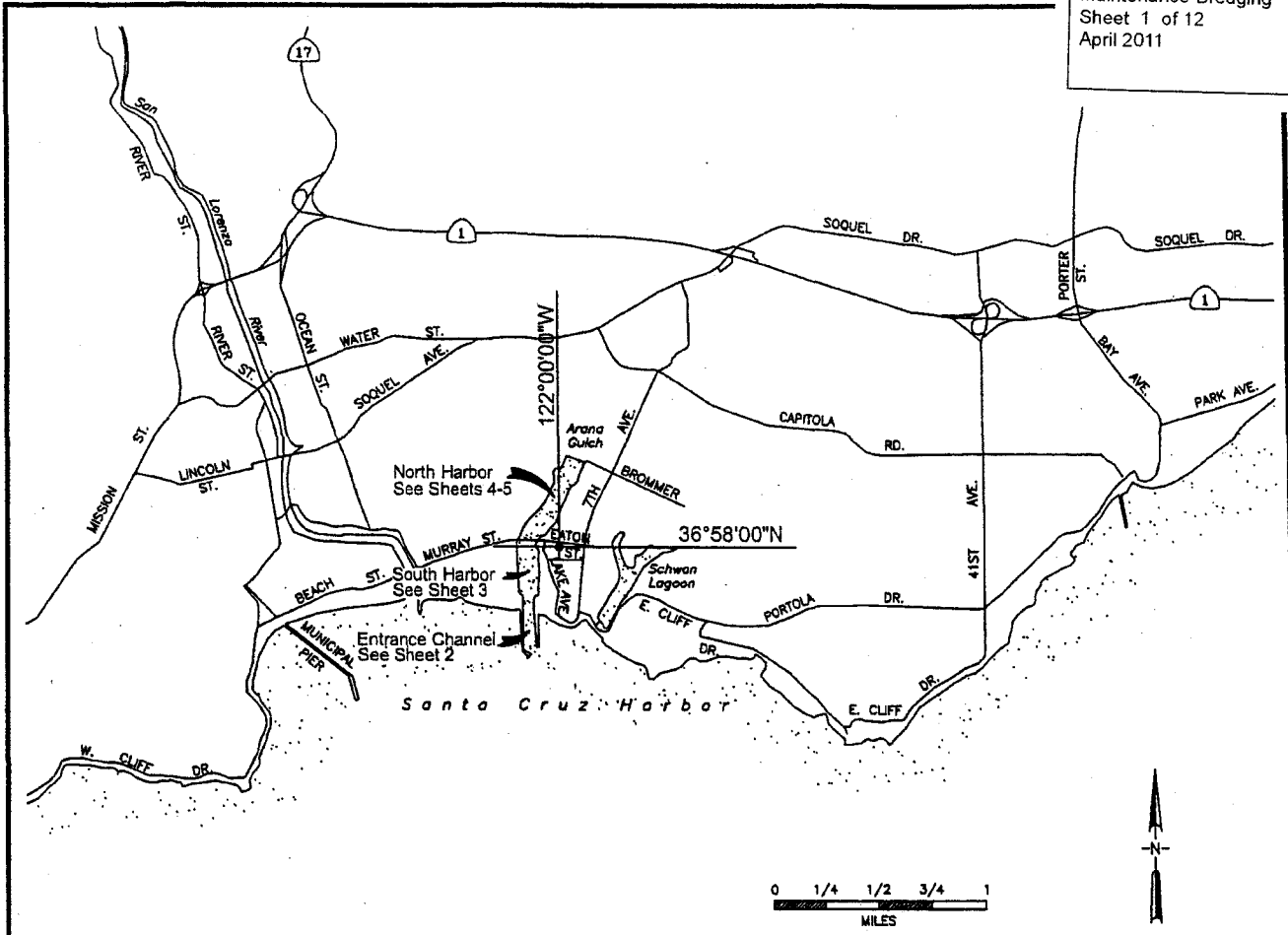


USACE File: 2010-00015S
 Santa Cruz Port District
 Maintenance Dredging
 Sheet 1 of 12
 April 2011



LOCATION MAP

PURPOSE: TO MAINTENANCE DREDGE
 EXISTING ENTRANCE/FEDERAL
 CHANNEL & BERTHING AREAS
 IN THE NORTH AND SOUTH
 HARBORS

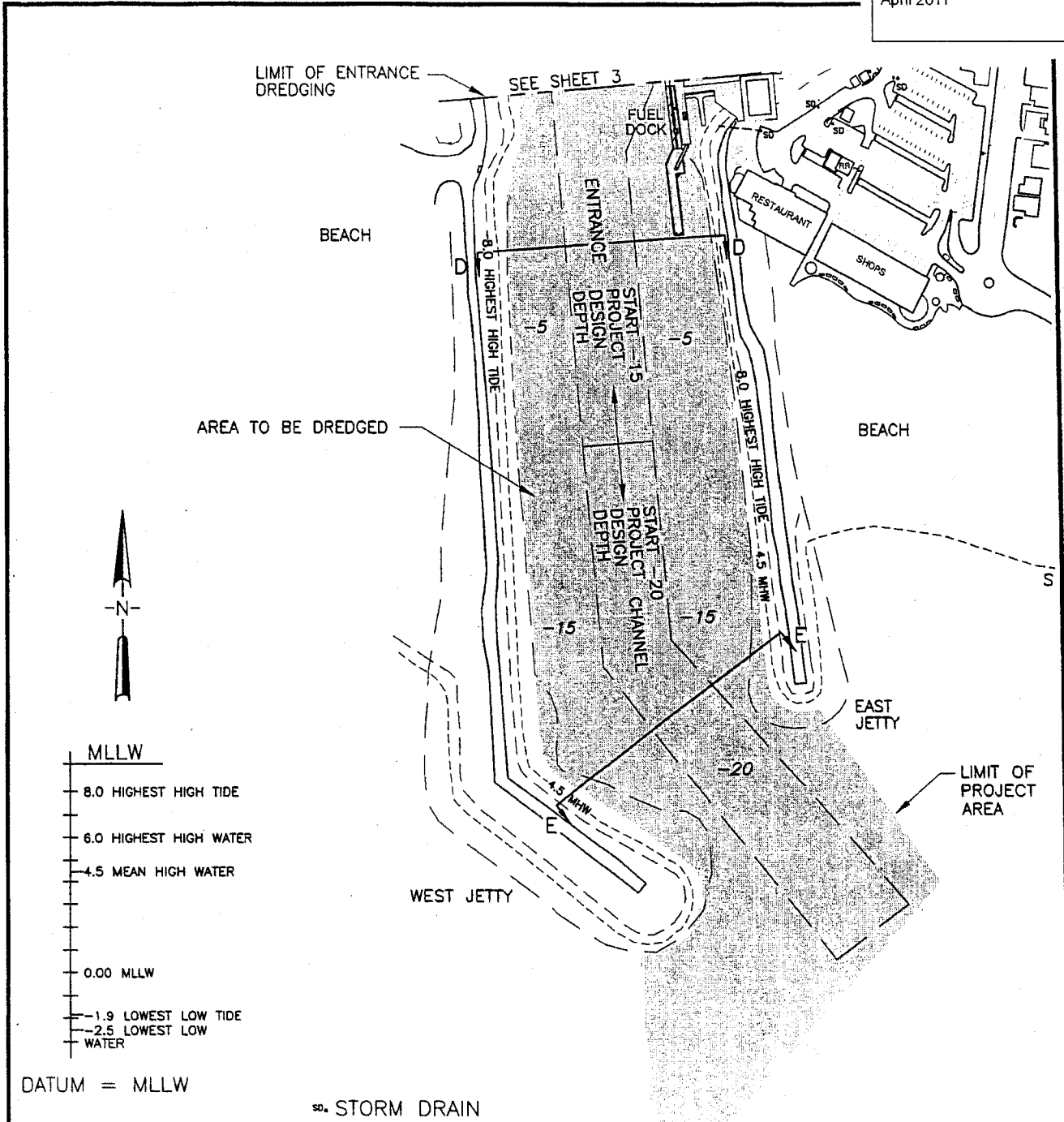
DATUM: MLLW

VICINITY MAP

SANTA CRUZ PORT DISTRICT
 135 5th AVENUE
 SANTA CRUZ, CA 95062

IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT: NORTH AND SOUTH HARBOR
 COUNTY OF: SANTA CRUZ

FEBRUARY 1, 2011



DATUM = MLLW

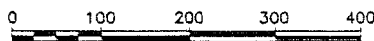
SD - STORM DRAIN

NOTE: WATER DEPTHS SHOWN ARE
 PROJECT DESIGN DEPTHS

PURPOSE: TO MAINTENANCE DREDGE
 EXISTING ENTRANCE/FEDERAL
 CHANNEL & BERTHING AREAS
 IN THE NORTH AND SOUTH
 HARBORS

DATUM: MLLW

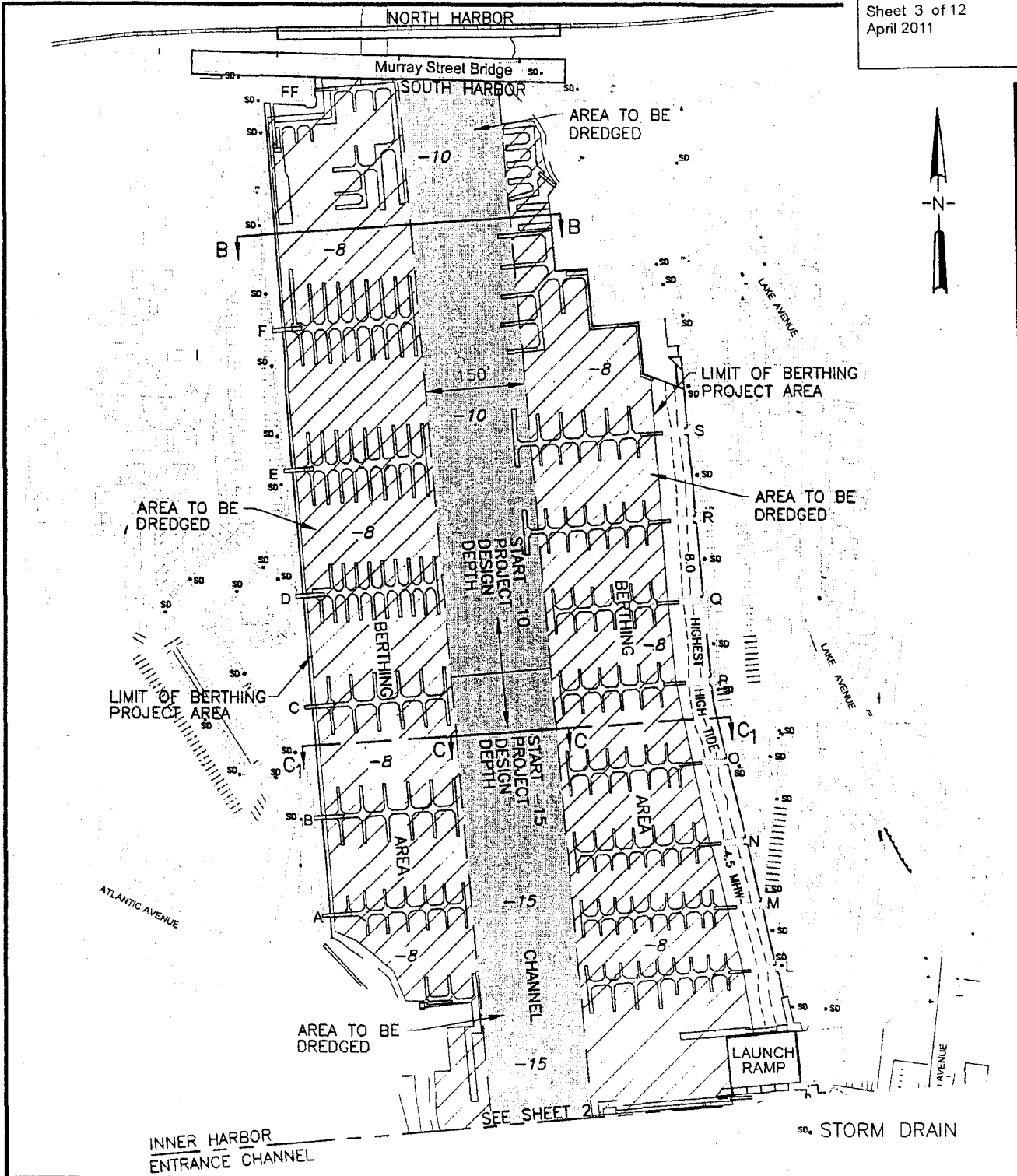
PLAN VIEW
 ENTRANCE CHANNEL



SANTA CRUZ PORT DISTRICT
 135 5th AVENUE
 SANTA CRUZ, CA 95062

IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT: NORTH AND SOUTH HARBOR
 COUNTY OF: SANTA CRUZ

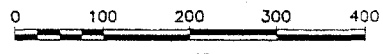
FEBRUARY 1, 2011



PURPOSE: TO MAINTENANCE DREDGE
 EXISTING ENTRANCE/FEDERAL
 CHANNEL & BERTHING AREAS
 IN THE NORTH AND SOUTH
 HARBORS

DATUM: MLLW

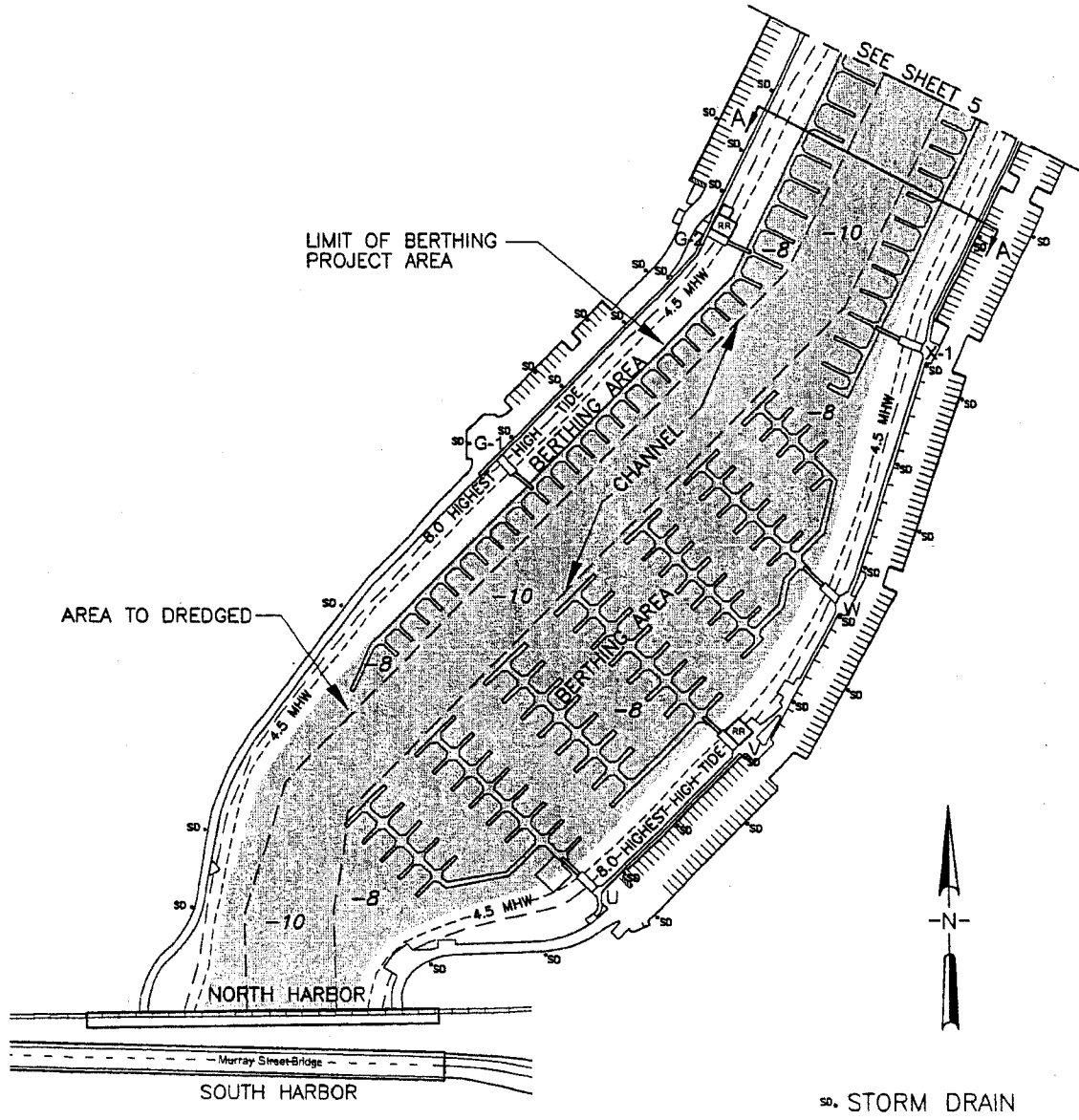
**PLAN VIEW
 SOUTH HARBOR**



SANTA CRUZ PORT DISTRICT
 135 5th AVENUE
 SANTA CRUZ, CA 95062

IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT: NORTH AND SOUTH HARBOR
 COUNTY OF: SANTA CRUZ

FEBRUARY 1, 2011

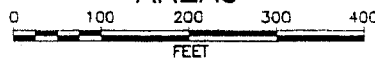


NOTE: WATER DEPTHS SHOWN ARE PROJECT DESIGN DEPTHS

PURPOSE: TO MAINTENANCE DREDGE EXISTING ENTRANCE/FEDERAL CHANNEL & BERTHING AREAS IN THE NORTH AND SOUTH HARBORS

DATUM: MLLW

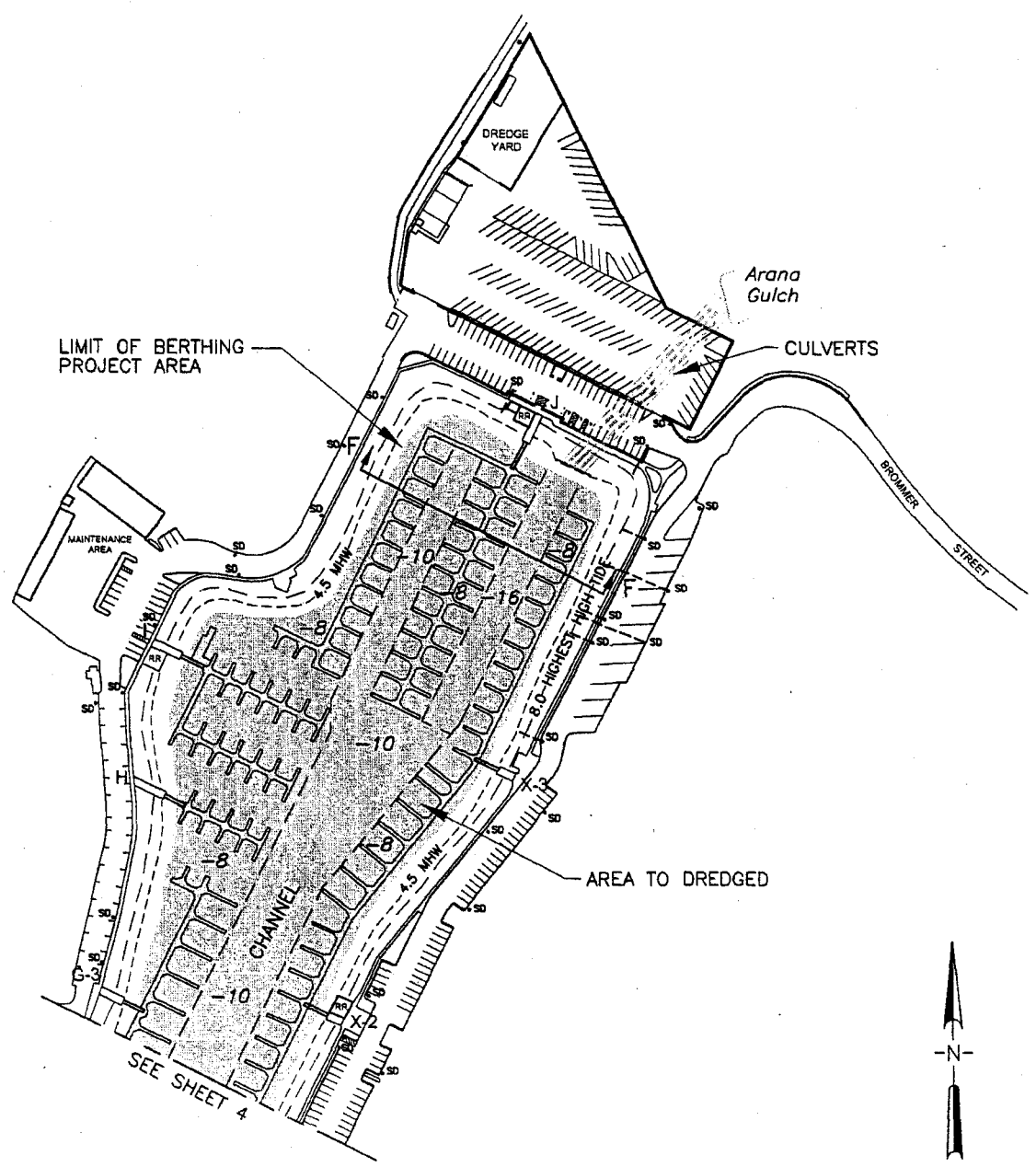
PLAN VIEW
NORTH HARBOR BERTHING AREAS



SANTA CRUZ PORT DISTRICT
 135 5th AVENUE
 SANTA CRUZ, CA 95062

IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT: NORTH AND SOUTH HARBOR
 COUNTY OF: SANTA CRUZ

FEBRUARY 1, 2011



SD. STORM DRAIN

PURPOSE: TO MAINTENANCE DREDGE
 EXISTING ENTRANCE/FEDERAL
 CHANNEL & BERTHING AREAS
 IN THE NORTH AND SOUTH
 HARBORS

DATUM: MLLW

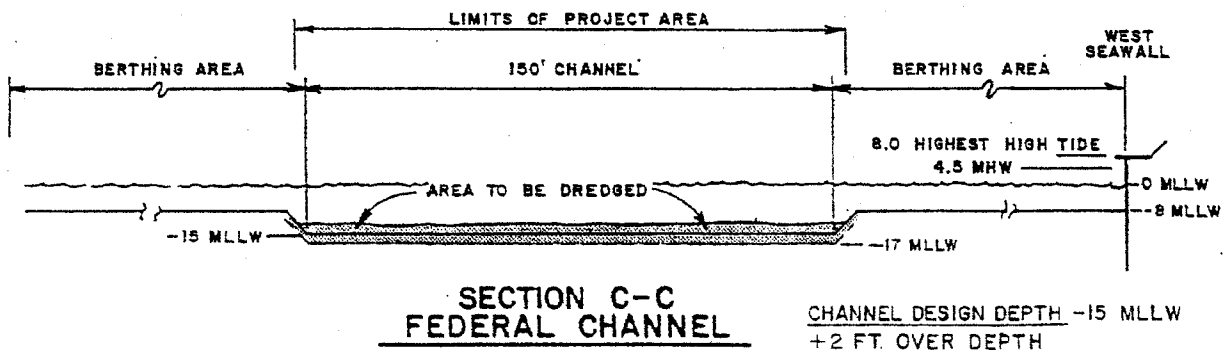
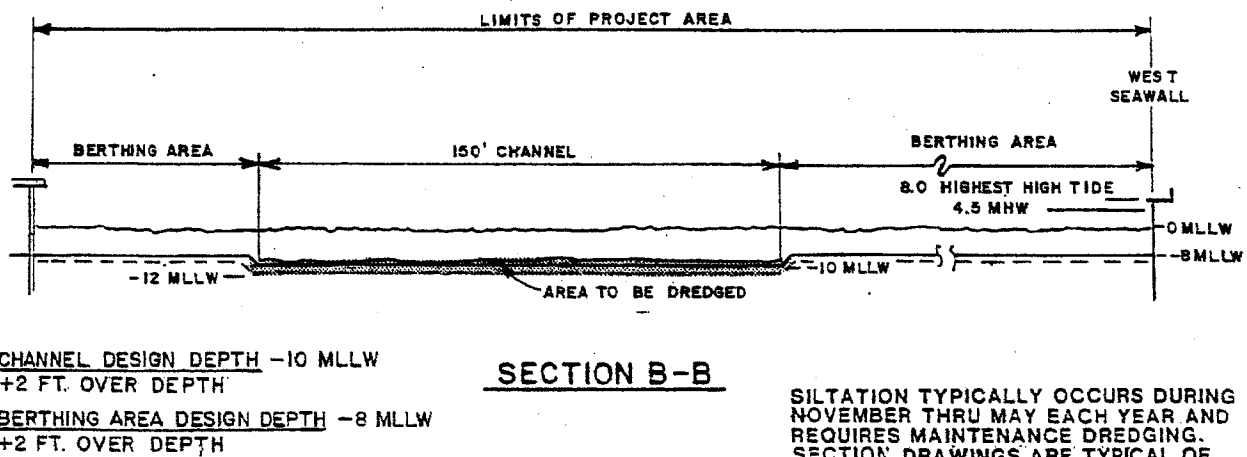
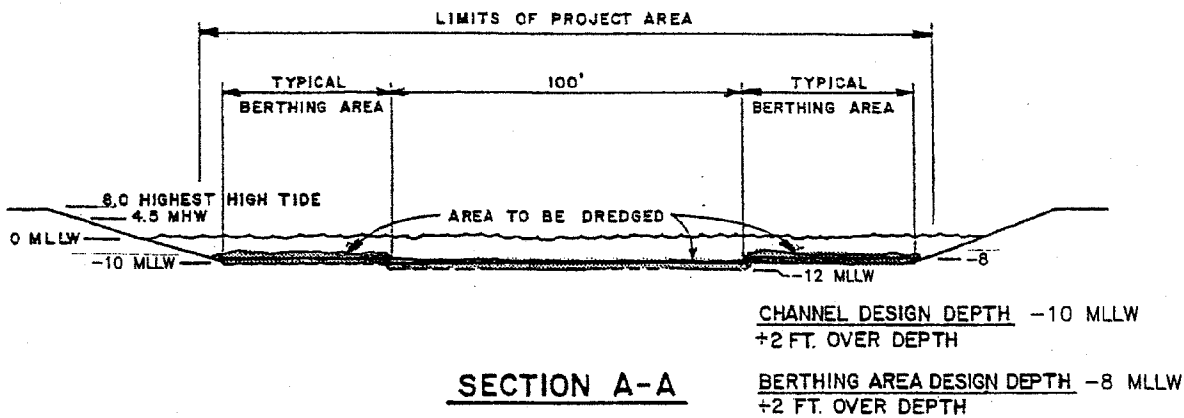
PLAN VIEW
NORTH HARBOR BERTHING
AREAS

0 100 200 300 400
 FEET

SANTA CRUZ PORT DISTRICT
 135 5th AVENUE
 SANTA CRUZ, CA 95062

IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT: NORTH AND SOUTH HARBOR
 COUNTY OF: SANTA CRUZ

FEBRUARY 1, 2011



PURPOSE: TO MAINTENANCE DREDGE EXISTING ENTRANCE/FEDERAL CHANNEL & BERTHING AREAS IN THE NORTH AND SOUTH HARBORS

DATUM: MLLW

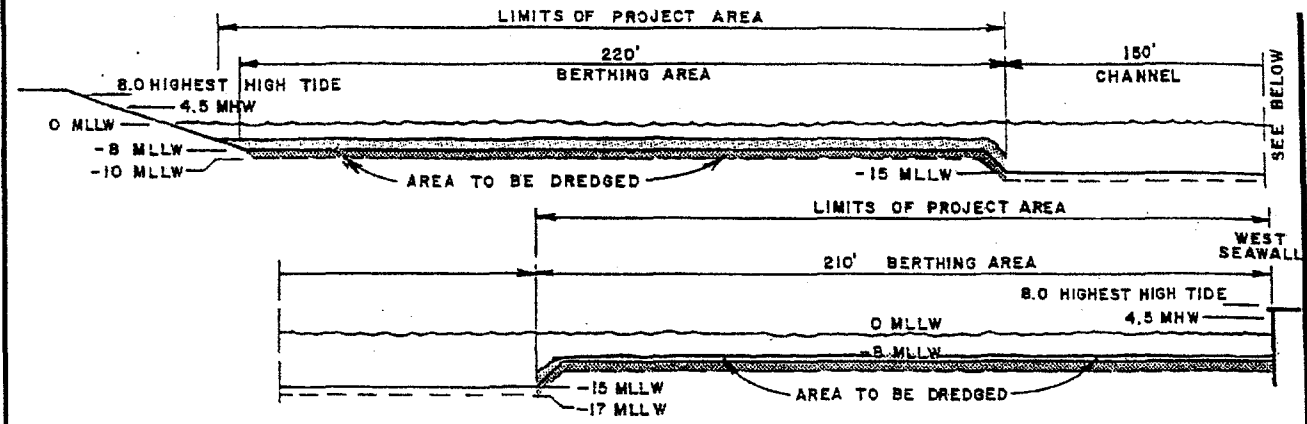
SECTIONS



SANTA CRUZ PORT DISTRICT
 135 5th AVENUE
 SANTA CRUZ, CA 95062

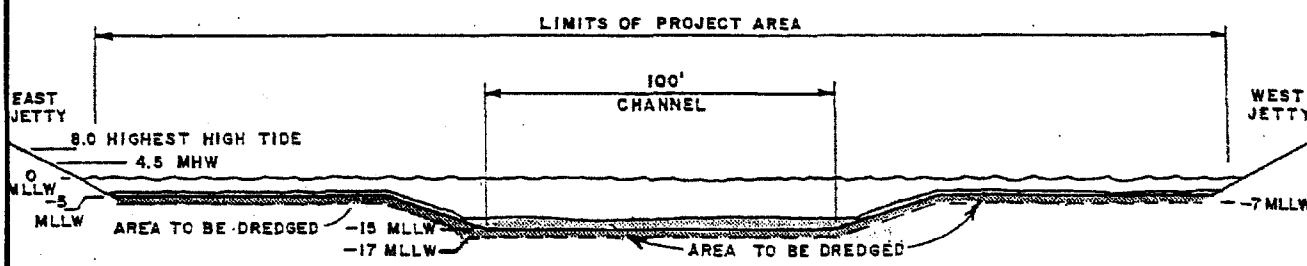
IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT: NORTH AND SOUTH HARBOR
 COUNTY OF: SANTA CRUZ

FEBRUARY 1, 2011



**SECTION C-C,
 BERTHING AREAS**

BERTHING AREA DESIGN DEPTH -8 MLLW
 +2 FT. OVER DEPTH
 FOR CHANNEL SEE SECTION C-C

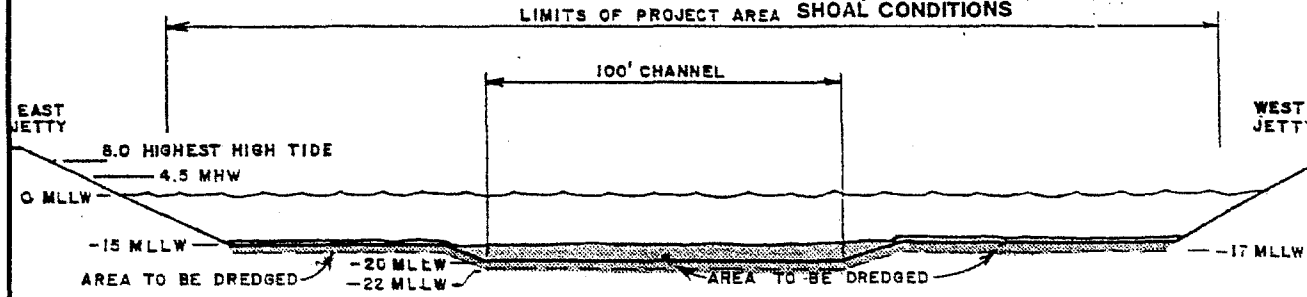


FEDERAL CHANNEL DESIGN DEPTH -15 MLLW
 +2 FT. OVER DEPTH

EAST AND WEST SHOULDER AREA DESIGN DEPTH -5 MLLW +2 FT. OVER DEPTH

SECTION D-D

SILTATION TYPICALLY OCCURS DURING NOVEMBER THRU MAY EACH YEAR AND REQUIRES MAINTENANCE DREDGING. SECTION DRAWINGS ARE TYPICAL OF SHOAL CONDITIONS



FEDERAL CHANNEL DESIGN DEPTH -20 MLLW
 +2 FT. OVER DEPTH

SECTION E-E

EAST AND WEST SHOULDER AREA DESIGN DEPTH -15 MLLW +2 FT. OVER DEPTH

PURPOSE: TO MAINTENANCE DREDGE EXISTING ENTRANCE/FEDERAL CHANNEL & BERTHING AREAS IN THE NORTH AND SOUTH HARBORS

DATUM: MLLW

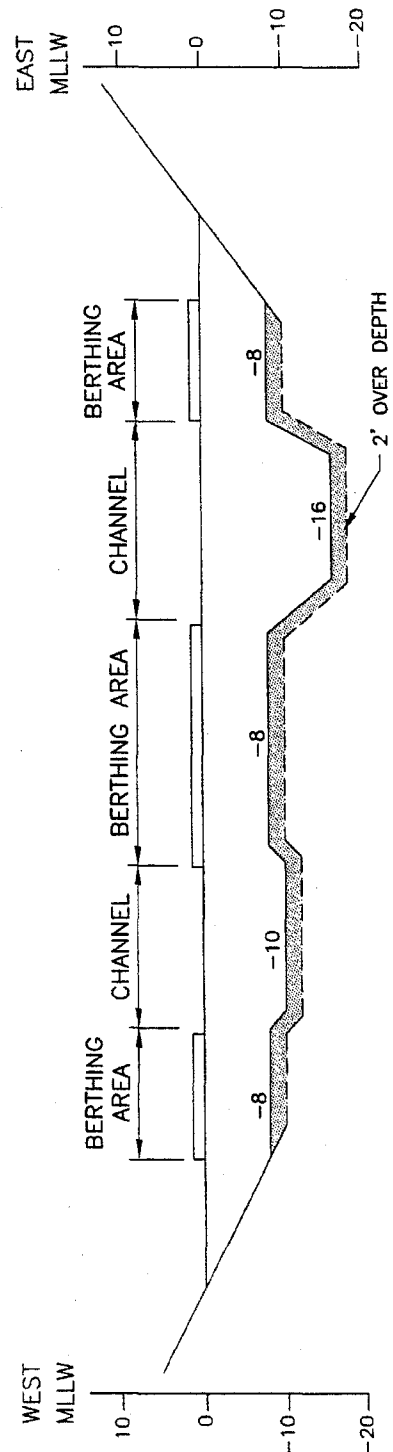
SECTIONS



SANTA CRUZ PORT DISTRICT
 135 5th AVENUE
 SANTA CRUZ, CA 95062

IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT: NORTH AND SOUTH HARBOR
 COUNTY OF: SANTA CRUZ

FEBRUARY 1, 2011

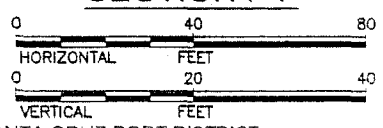


BERTHING AREA DESIGN DEPTH -8 MLLW +2 FEET OVER DEPTH
 WEST CHANNEL DESIGN DEPTH -10 MLLW +2 FEET OVER DEPTH
 EAST CHANNEL DESIGN DEPTH -16 +2 FEET OVER DEPTH

PURPOSE: TO MAINTENANCE DREDGE
 EXISTING ENTRANCE/FEDERAL
 CHANNEL & BERTHING AREAS
 IN THE NORTH AND SOUTH
 HARBORS

DATUM: MLLW

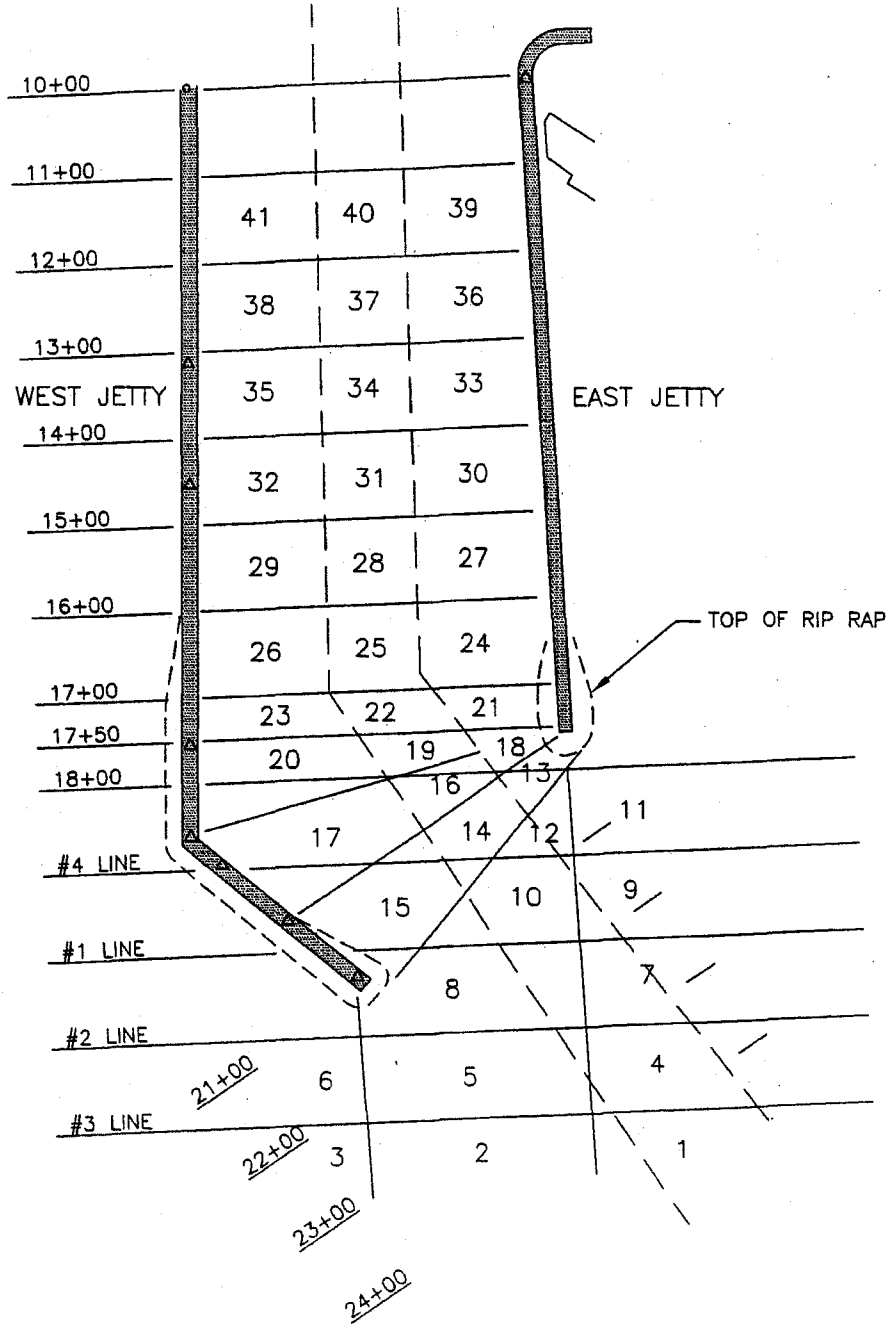
SECTION F-F



SANTA CRUZ PORT DISTRICT
 135 5th AVENUE
 SANTA CRUZ, CA 95062

IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT. NORTH AND SOUTH HARBOR
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FEBRUARY 1, 2011



PURPOSE: TO MAINTENANCE DREDGE
 EXISTING ENTRANCE/FEDERAL
 CHANNEL & BERTHING AREAS
 IN THE NORTH AND SOUTH
 HARBORS

DATUM: MLLW

DREDGING QUADRANTS

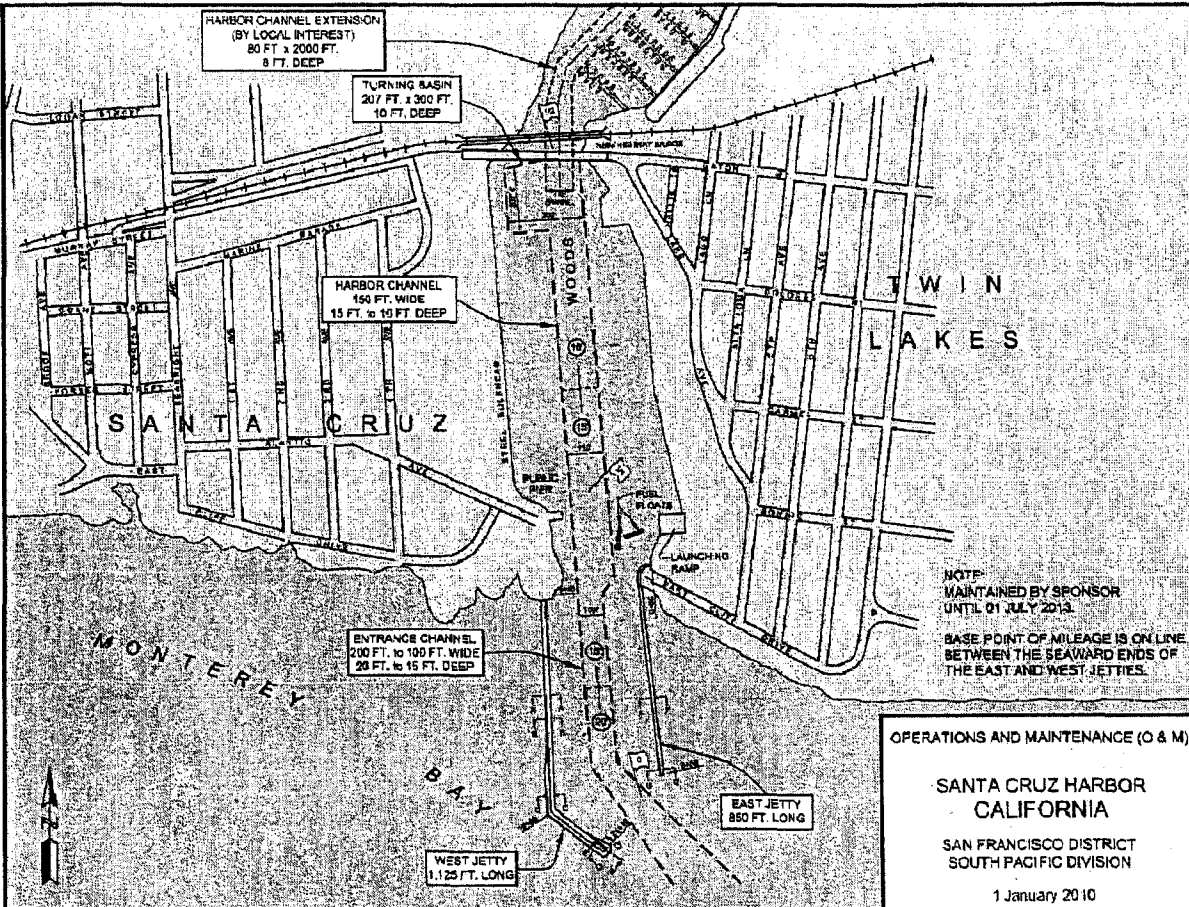


SANTA CRUZ PORT DISTRICT
 135 5th AVENUE
 SANTA CRUZ, CA 95062

IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT: NORTH AND SOUTH HARBOR
 COUNTY OF: SANTA CRUZ

FEBRUARY 1, 2011

U.S. Army Corps of Engineers



OPERATIONS AND MAINTENANCE (O & M)
 SANTA CRUZ HARBOR
 CALIFORNIA
 SAN FRANCISCO DISTRICT
 SOUTH PACIFIC DIVISION
 1 January 2010

PURPOSE: TO MAINTENANCE DREDGE
 EXISTING ENTRANCE/FEDERAL
 CHANNEL & BERTHING AREAS
 IN THE NORTH AND SOUTH
 HARBORS

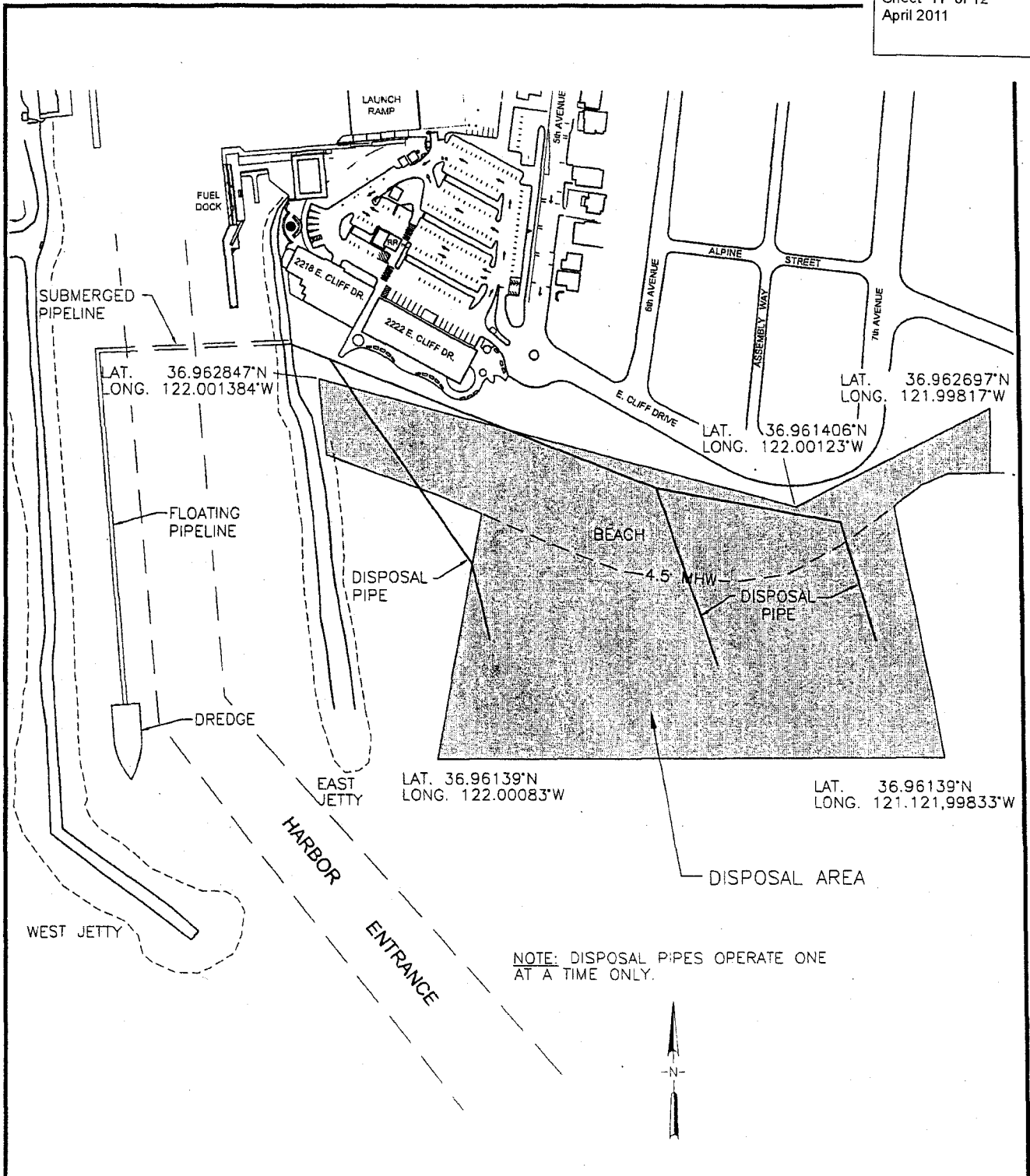
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FEDERAL CHANNEL

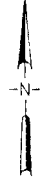
SANTA CRUZ PORT DISTRICT
 135 5th AVENUE
 SANTA CRUZ, CA 95062

IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT: NORTH AND SOUTH HARBOR
 COUNTY OF: SANTA CRUZ

FEBRUARY 1, 2011



NOTE: DISPOSAL PIPES OPERATE ONE AT A TIME ONLY.



PURPOSE: TO MAINTENANCE DREDGE
 EXISTING ENTRANCE/FEDERAL
 CHANNEL & BERTHING AREAS
 IN THE NORTH AND SOUTH
 HARBORS

DATUM: MLLW

**DISPOSAL SITE
 ALTERNATIVE A**

0 100 200 300 400
 FEET

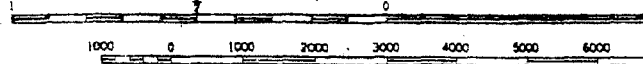
SANTA CRUZ PORT DISTRICT
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 SANTA CRUZ, CA 95062

IN: SANTA CRUZ SMALL CRAFT HARBOR
 AT: NORTH AND SOUTH HARBOR
 COUNTY OF: SANTA CRUZ

FEBRUARY 1, 2011

USACE File: 2010-000155
 Santa Cruz Port District
 Maintenance Dredging
 Sheet 12 of 12
 April 2011

SCALE 1:24000

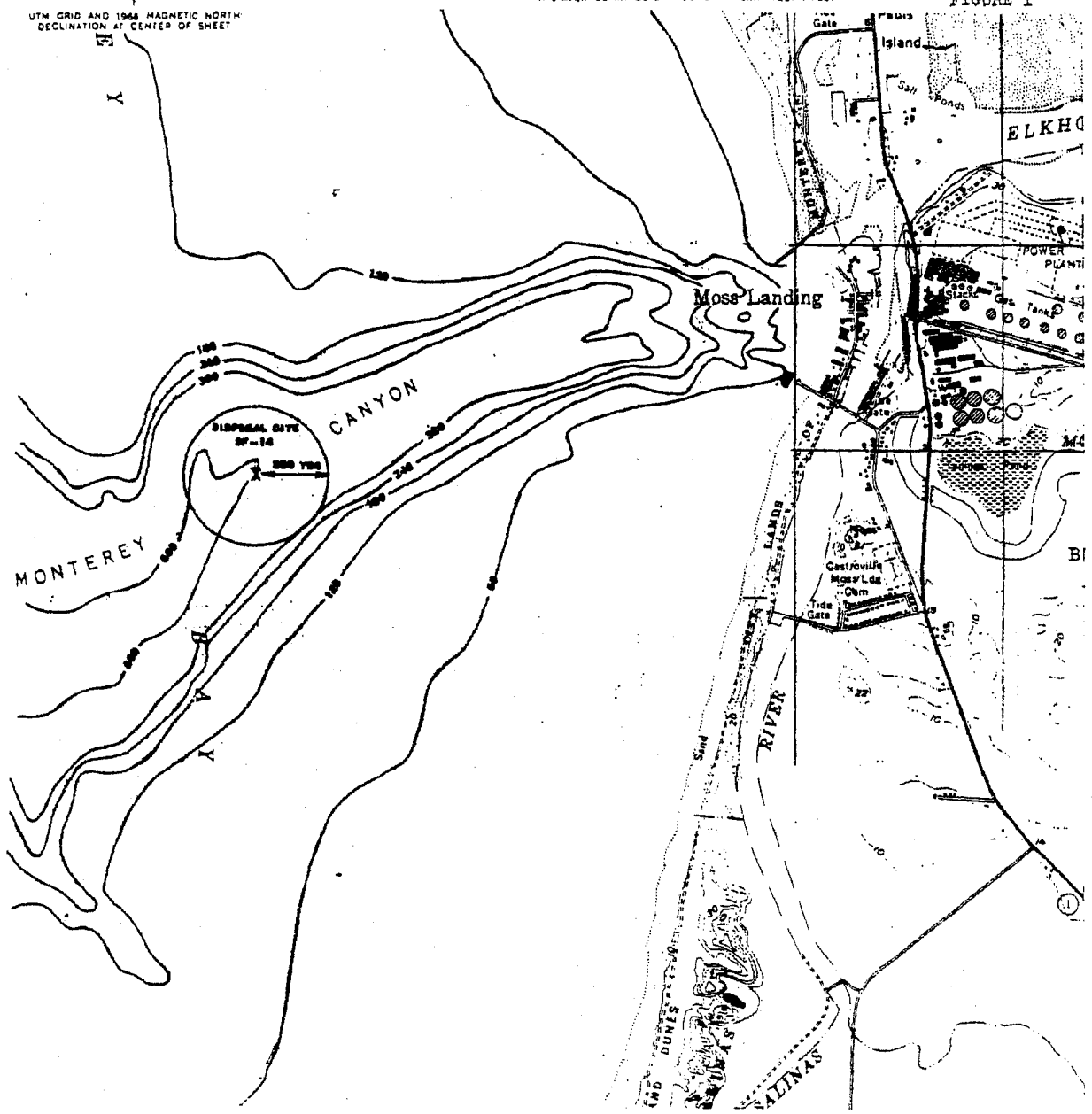


UTM GRID AND 1968 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

GN
 MN
 0°43'
 17'
 302 MILS

CONTOUR INTERVAL 10 FEET
 DATUM IS MEAN SEA LEVEL
 DEPTH CURVES IN FEET-DATUM IS MEAN LOWER LOW WATER
 SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
 THE AVERAGE RANGE OF TIDE IS APPROXIMATELY 4 FEET

FIGURE 1



MONTEREY COUNTY CALIFORNIA

LOCATION OF
 DISPOSAL SITE - SF-14
 MONTEREY BAY CALIFORNIA

IN SHEET SHEET NO
 U.S. ARMY ENGINEER DIST. SAN FRANCISCO C OF E
 DRAWN FILE NO
 TRACED TO ACCOMPANY REPORT
 CHECKED DATED FEB. 16, 1962