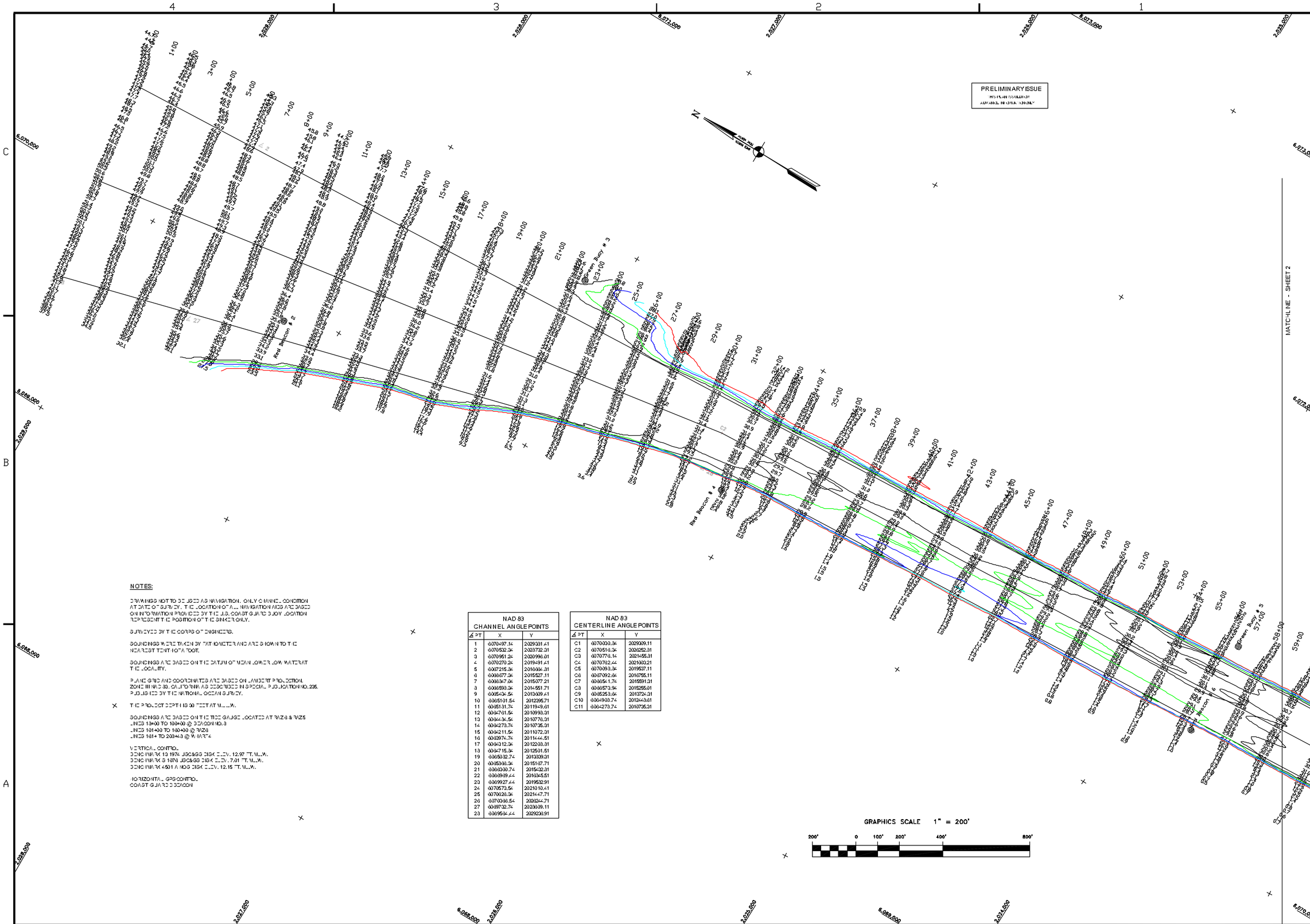


NOTES:

DRAWINGS NOT TO BE USED AS NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY. THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD BUOY LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, ZONE III NAD 83, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

THE PROJECT DEPTH IS 30 FEET AT M.L.L.W.

SOUNDINGS ARE BASED ON THE TIDE GAUGE LOCATED AT RAIZ6 & RAIZ5
LINES 13+00 TO 100+00 @ BEACON NO. 3
LINES 101+00 TO 160+00 @ RAIZ6
LINES 161+ TO 203+43 @ WHARF 4

VERTICAL CONTROL
BENCHMARK 13 1974 USC&GS DISK ELEV. 12.97 FT. M.L.W.
BENCHMARK S 1076 USC&GS DISK ELEV. 7.01 FT. M.L.W.
BENCHMARK 4501 A NOS DISK ELEV. 12.15 FT. M.L.W.

HORIZONTAL GPS CONTROL
COAST GUARD BEACON

NAD 83
CHANNEL ANGLE POINTS

| ∡ PT | X | Y |
|---|---|---|
| 1 | 6070497.14 | 2029331.41 |
| 2 | 6070532.34 | 2023732.31 |
| 3 | 6070951.24 | 2020991.01 |
| 4 | 6070270.24 | 2019491.41 |
| 5 | 6067215.34 | 2016934.31 |
| 6 | 6066877.34 | 2015527.11 |
| 7 | 6066347.34 | 2015077.21 |
| 8 | 6066590.34 | 2014551.71 |
| 9 | 6065434.54 | 2013309.41 |
| 10 | 6065101.54 | 2012395.71 |
| 11 | 6065131.74 | 2011949.61 |
| 12 | 6064761.54 | 2010993.31 |
| 13 | 6064434.54 | 2010776.31 |
| 14 | 6064273.74 | 2010735.31 |
| 15 | 6064211.54 | 2011072.31 |
| 16 | 6063974.74 | 2011444.51 |
| 17 | 6063412.34 | 2012203.31 |
| 18 | 6063715.34 | 2012501.51 |
| 19 | 6063532.74 | 2013329.01 |
| 20 | 6063393.34 | 2015167.71 |
| 21 | 6063300.74 | 2015432.31 |
| 22 | 6063909.44 | 2016945.51 |
| 23 | 6063927.44 | 2019532.91 |
| 24 | 6070573.54 | 2021010.41 |
| 25 | 6070126.34 | 2021447.71 |
| 26 | 6070360.54 | 2023244.71 |
| 27 | 6069732.74 | 2023609.11 |
| 28 | 6069564.44 | 2023230.91 |

NAD 83
CENTERLINE ANGLE POINTS

| ∡ PT | X | Y |
|---|---|---|
| C1 | 6070030.34 | 2029309.11 |
| C2 | 6070516.34 | 2023252.31 |
| C3 | 6070770.14 | 2021455.31 |
| C4 | 6070732.44 | 2021003.21 |
| C5 | 6070093.34 | 2019537.11 |
| C6 | 6067092.34 | 2016755.11 |
| C7 | 6066541.74 | 2015591.31 |
| C8 | 6066573.94 | 2015255.01 |
| C9 | 6065253.34 | 2013724.31 |
| C10 | 6064903.74 | 2012443.61 |
| C11 | 6064273.74 | 2010735.31 |

US Army Corps of Engineers
San Francisco District
333 Market Street
San Francisco, CA 94105

| Mark | Description | Date | Appr. |
|---|---|---|---|
| | | | |

SUBMITTED: TVW
Hydro Survey Section
APPROVAL RECOMMENDED:
Chief, Engineering Branch
APPROVED:
Chief, Engineering Technical & Services Div.

DESIGNED BY:
DATE: 2/4/2003
SHEET NO. 1 OF 4
CHECKED BY: PC
DRAWING NO. 54 2 170
DRAWN BY: EWC

PREPARED UNDER THE DIRECTION OF
MICHAEL McCORMICK
LT. COLONEL, C.E., DISTRICT ENGINEER

CONTRA COSTA COUNTY CALIFORNIA

# REDWOOD CITY
## PLANS AND SPECS SURVEY
## 24-29 JANUARY 2003

Sheet reference number
C1