

持出禁止

社会開発協力部

**PORT MUHAMMAD - BIN - QASIM PROJECT**

**DETAILED DESIGN DRAWINGS**

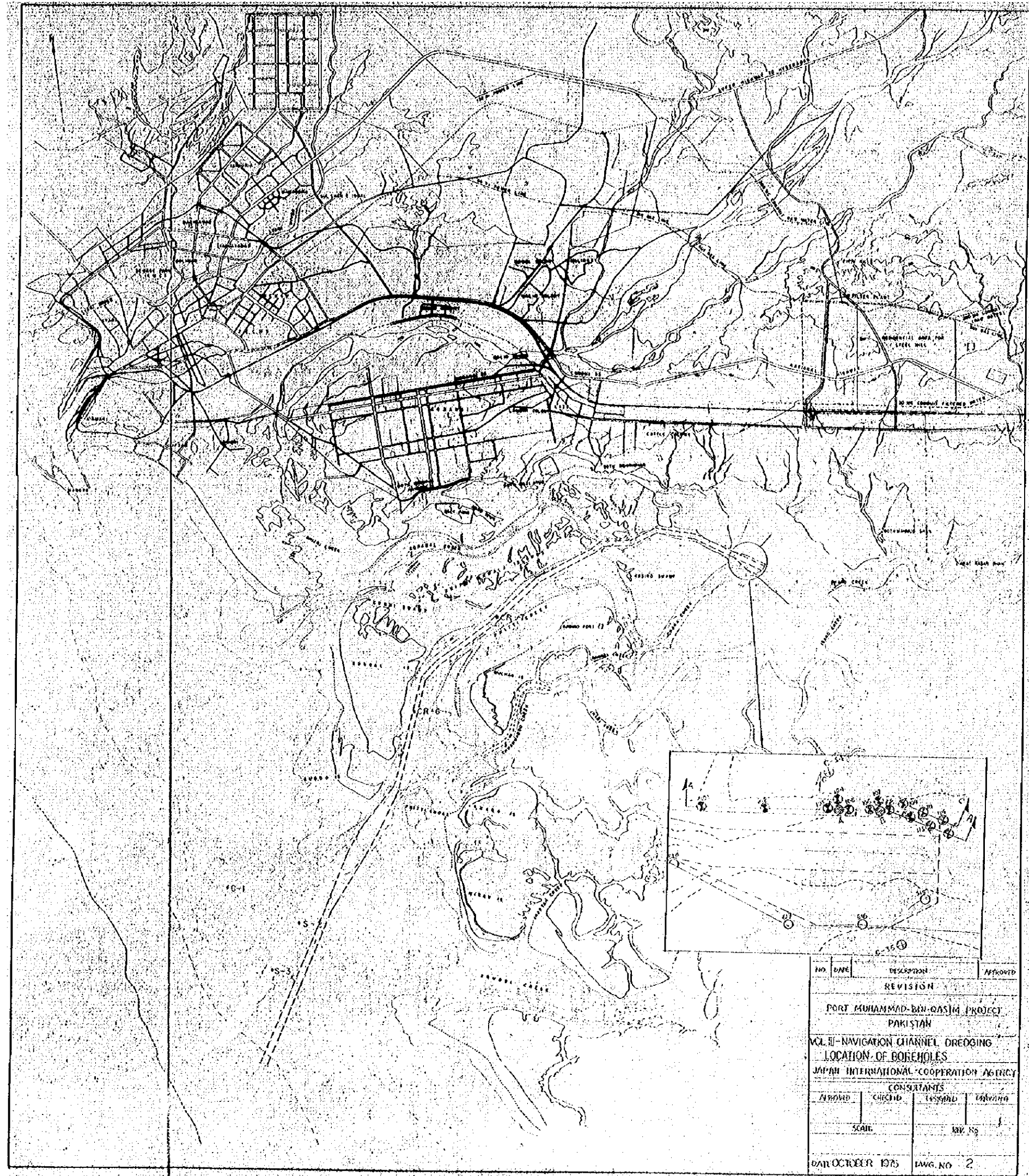
**VOL. III NAVIGATION CHANNEL DREDGING**

OCTOBER 1975

**JAPAN INTERNATIONAL COOPERATION AGENCY**

7  
8  
9

SP  
SR



NO.	DATE	DESCRIPTION	APPROVED
REVISION			
PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN			
VOL. II - NAVIGATION CHANNEL DREDGING LOCATION OF BOREHOLES			
JAPAN INTERNATIONAL COOPERATION AGENCY			
CONSULTANTS			
APPROVED	CHECKED	DESIGNED	DRAWING
SCALE		REV. NO.	
DATE: OCTOBER 1975		DWG. NO. 2	

BORING LOGS OF APPROACH CHANNEL

ELEVATION	S - 1			S - 2			S - 3		
	DESCRIPTION OF MATERIAL	DEPTH (ft)	TESTS	DESCRIPTION OF MATERIAL	DEPTH (ft)	TESTS	DESCRIPTION OF MATERIAL	DEPTH (ft)	TESTS
70									
68									
66									
64									
62									
60									
58									
56									
54									
52									
50									
48									
46									
44									
42									
40									
38									
36									
34									
32									
30									
28									
26									
24									
22									
20									
18									
16									
14									
12									
10									
8									
6									
4									
2									
0									

JICA LIBRARY  
111539121

NO.	DATE	REVISION	APPROVED
REVISION			
PORT AUTHORITY - HAB-CAHAL PROJECT PALESTINE			
VOL. II - NAVIGATION CHANNEL DREDGING			
BORING LOGS -- APPROACH CHANNEL			
JAPANESE INTERNATIONAL COOPERATION AGENCY COORDINATORS			
NAME	TITLE	CLASS	STATUS
DATE	NO. 3-1		
DATE OCTOBER 1975	NO. 3-1		
01	15		16

BORING LOGS OF CREEK AREA

CR - 6		CR - 7	
DEPTH (Feet)	DESCRIPTION OF SOILS	DEPTH (Feet)	DESCRIPTION OF SOILS
0-10	MUD	0-10	MUD
10-20	DARK GREY CLAY WITH SILT	10-20	VERY PLASTIC CLAY WITH SILT
20-30	DARK GREY FINE SANDS WITH SILT AND SAND	20-30	VERY PLASTIC CLAY WITH SILT
30-40	DARK GREY CLAYED SANDS	30-40	GREY PLASTIC CLAY WITH SILT
40-50		40-50	GREY PLASTIC CLAY WITH SILT
50-60		50-60	BROWN YELLOWSH SILTY CLAY WITH FINE SILT
60-70		60-70	
70-80		70-80	
80-90		80-90	
90-100		90-100	
100-110		100-110	
110-120		110-120	
120-130		120-130	
130-140		130-140	
140-150		140-150	

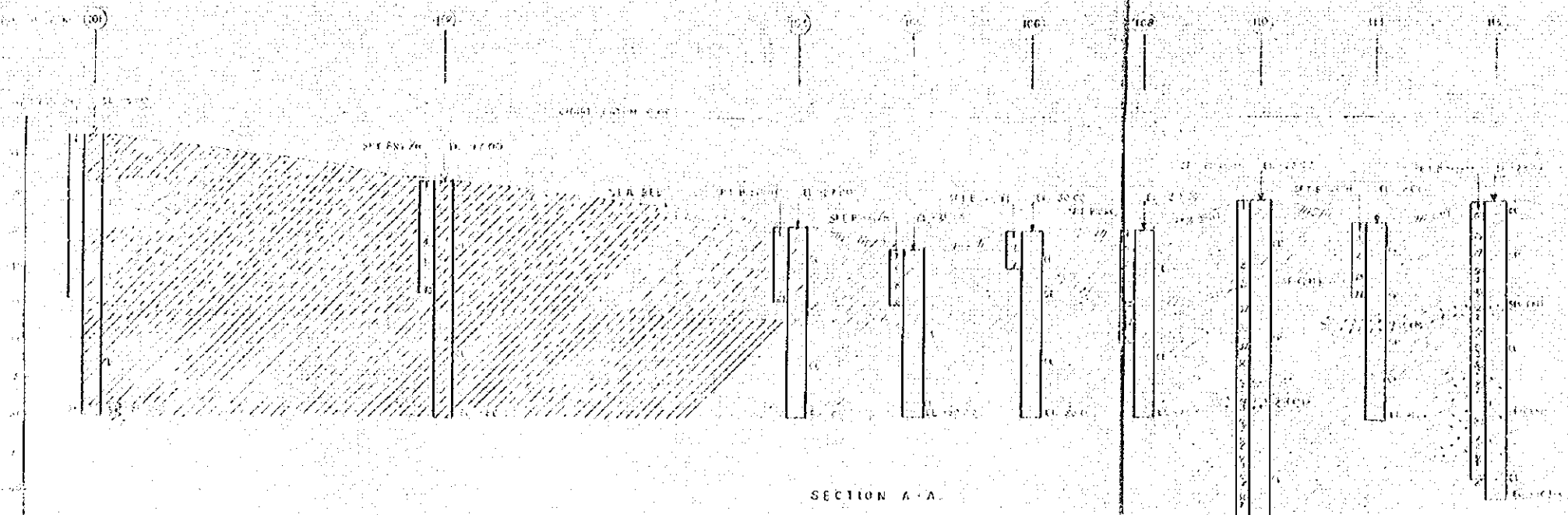
20666

MOBILE-NAVIGATION CHANNEL DREDGING

BORING LOGS -- INNER CHANNEL

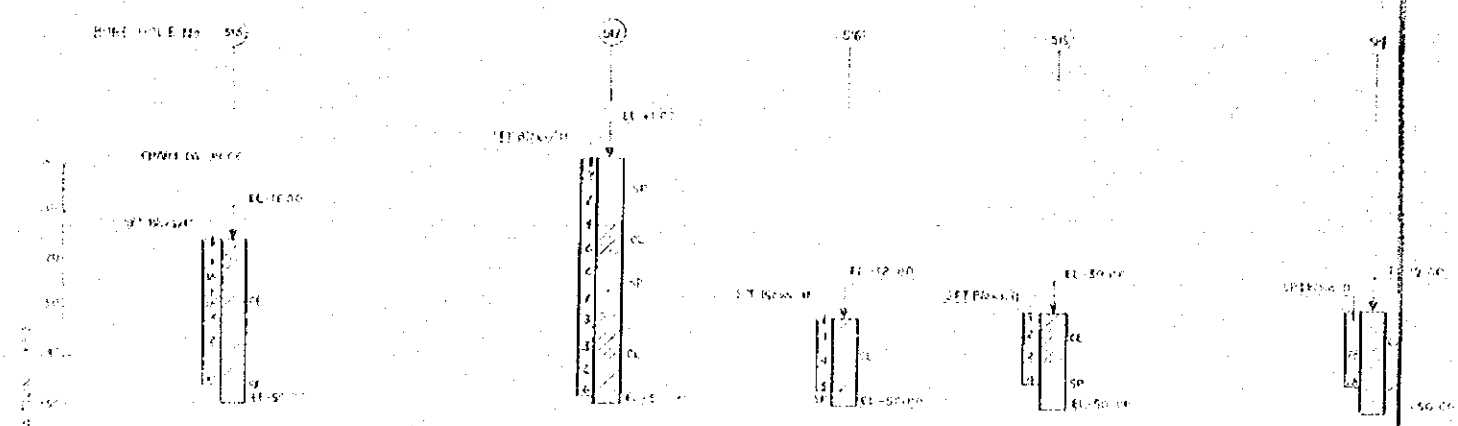
DATE OCTOBER 1975

NO. 3-2

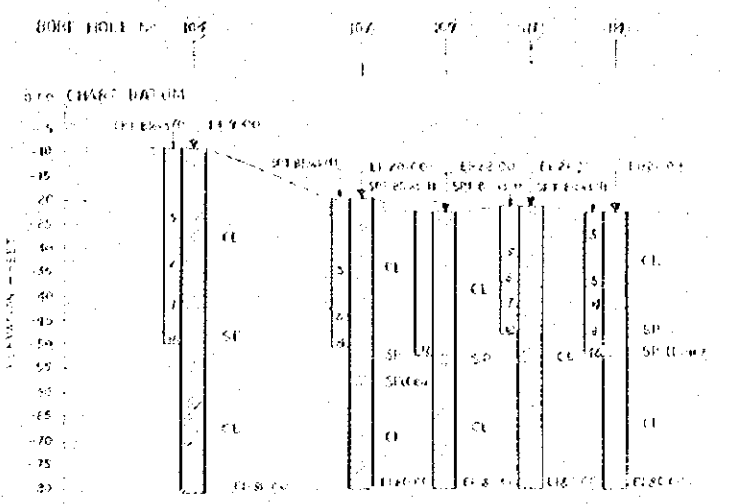


SECTION A-A

**LEGEND**  
 CL [diagonal lines] CLAY  
 SP [diagonal lines] SILT  
 [rectangle] SAND  
 [rectangle] GRAVEL



SECTION B-B



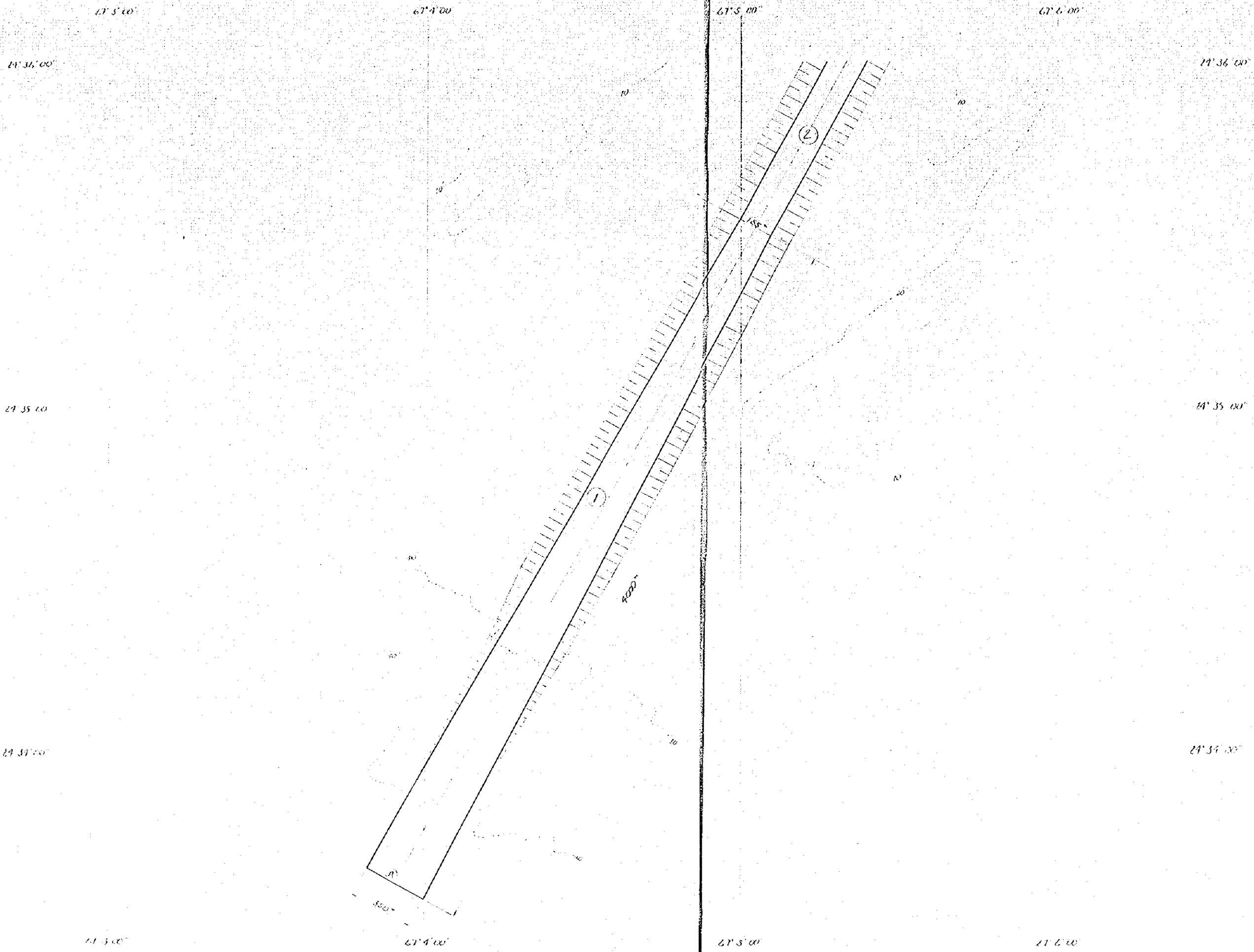
SECTION C-C

NO.	DESCRIPTION	AMOUNT
	REVISION	

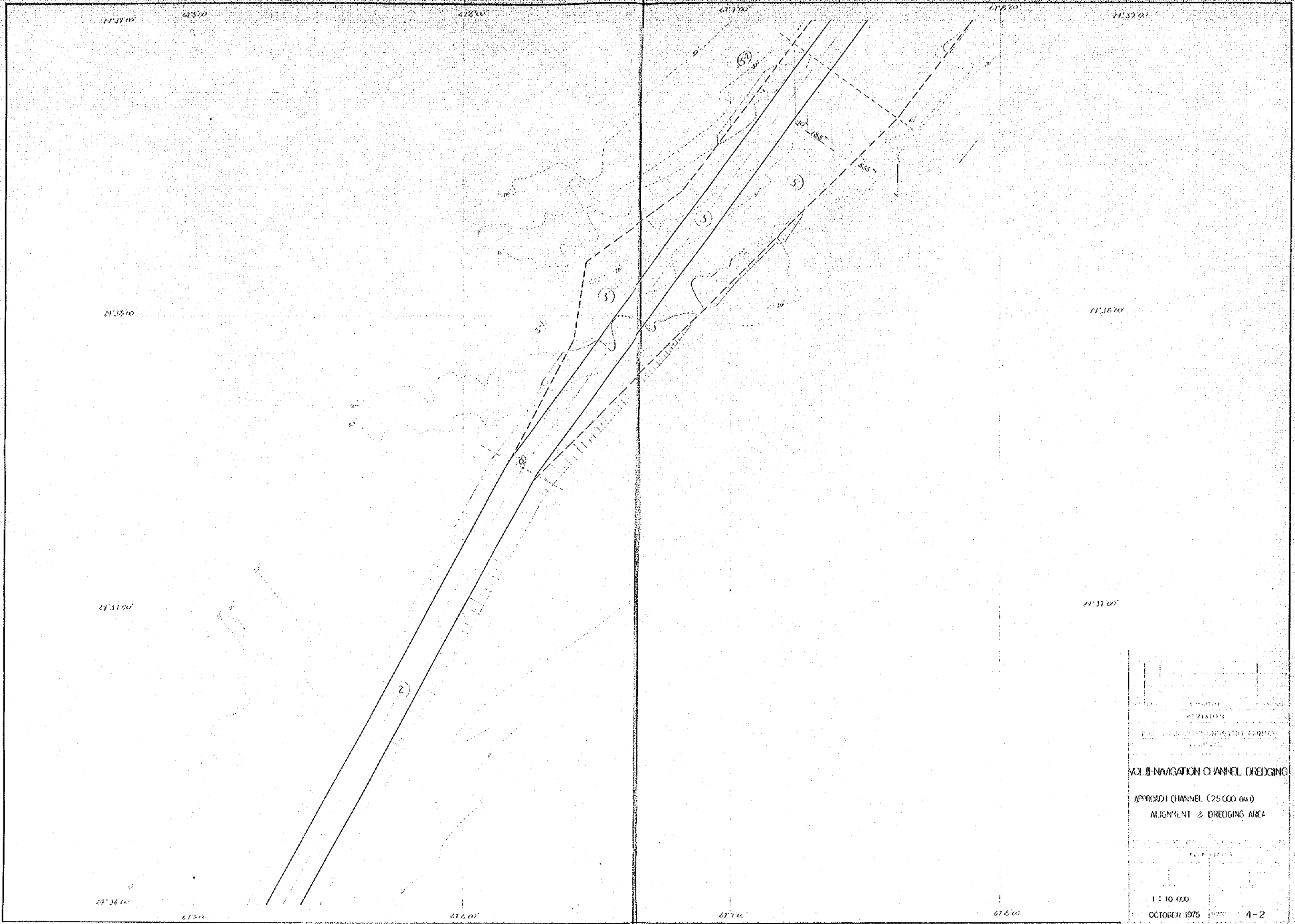
VOLI-NAVIGATION CHANNEL DREDGING

BORIS LOGS - BERTH TURNING BASIN  
 FEDERAL INDUSTRIAL COOPERATION AGENCY

DATE	BY	REVISED	BY



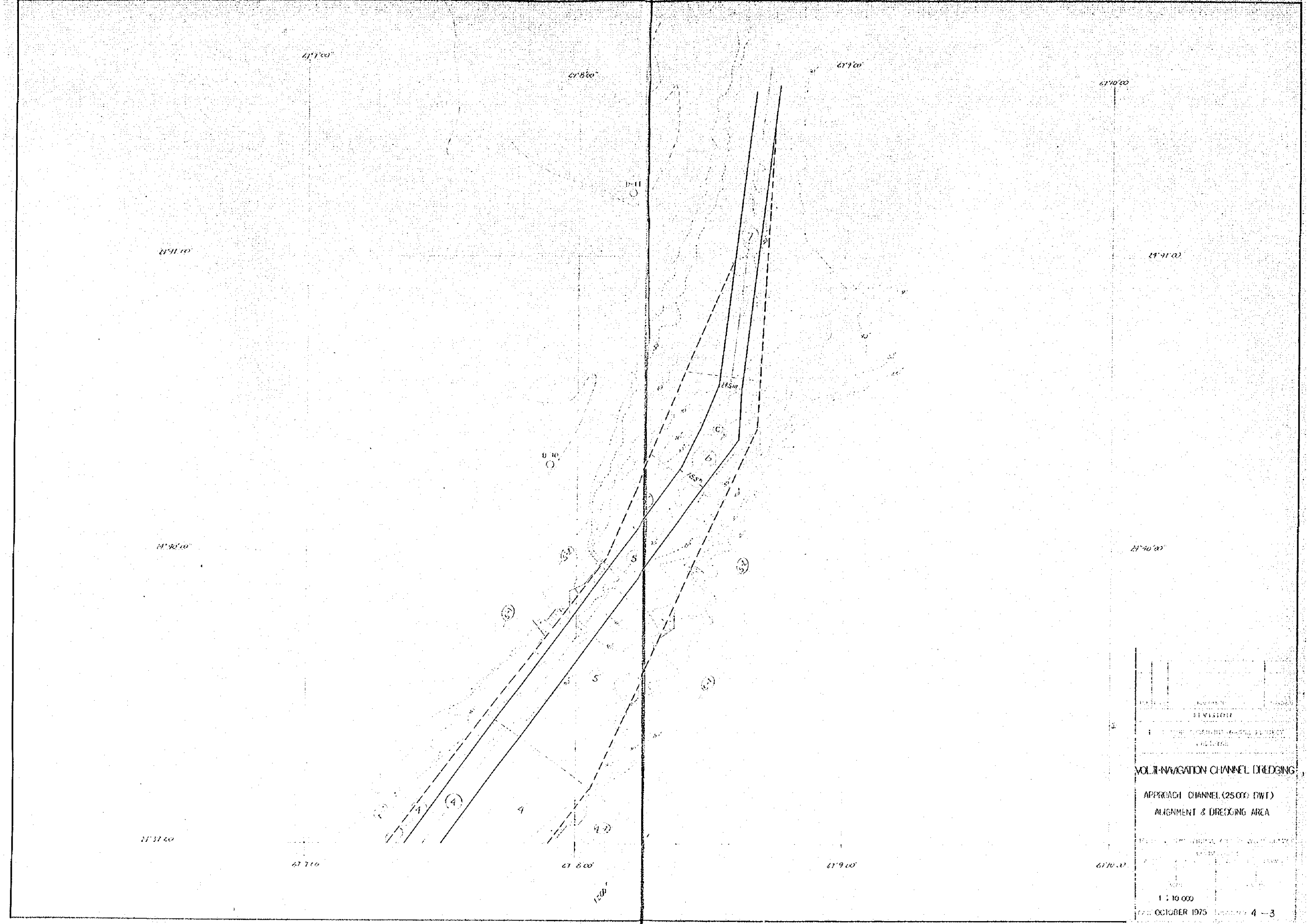
NO.	DESCRIPTION	DATE
	REVISION	
U.S. ARMY CORPS OF ENGINEERS DISTRICT OFFICE MEMPHIS, TENNESSEE		
<b>MULTI-NAVIGATION CHANNEL DREDGING</b> APPROACH CHANNEL (2500 COW) ALIGNMENT & DREDGING AREA		
BASE: INTERNATIONAL COORDINATE SYSTEM DATUM: MEAN SEA LEVEL		
SCALE	DATE	BY
1 : 10 000	OCTOBER 1975	DWG. NO. 4-1



APPROACH CHANNEL (25 000 owd)  
 ALIGNMENT & DREDGING AREA

1 : 10 000  
 OCTOBER 1975

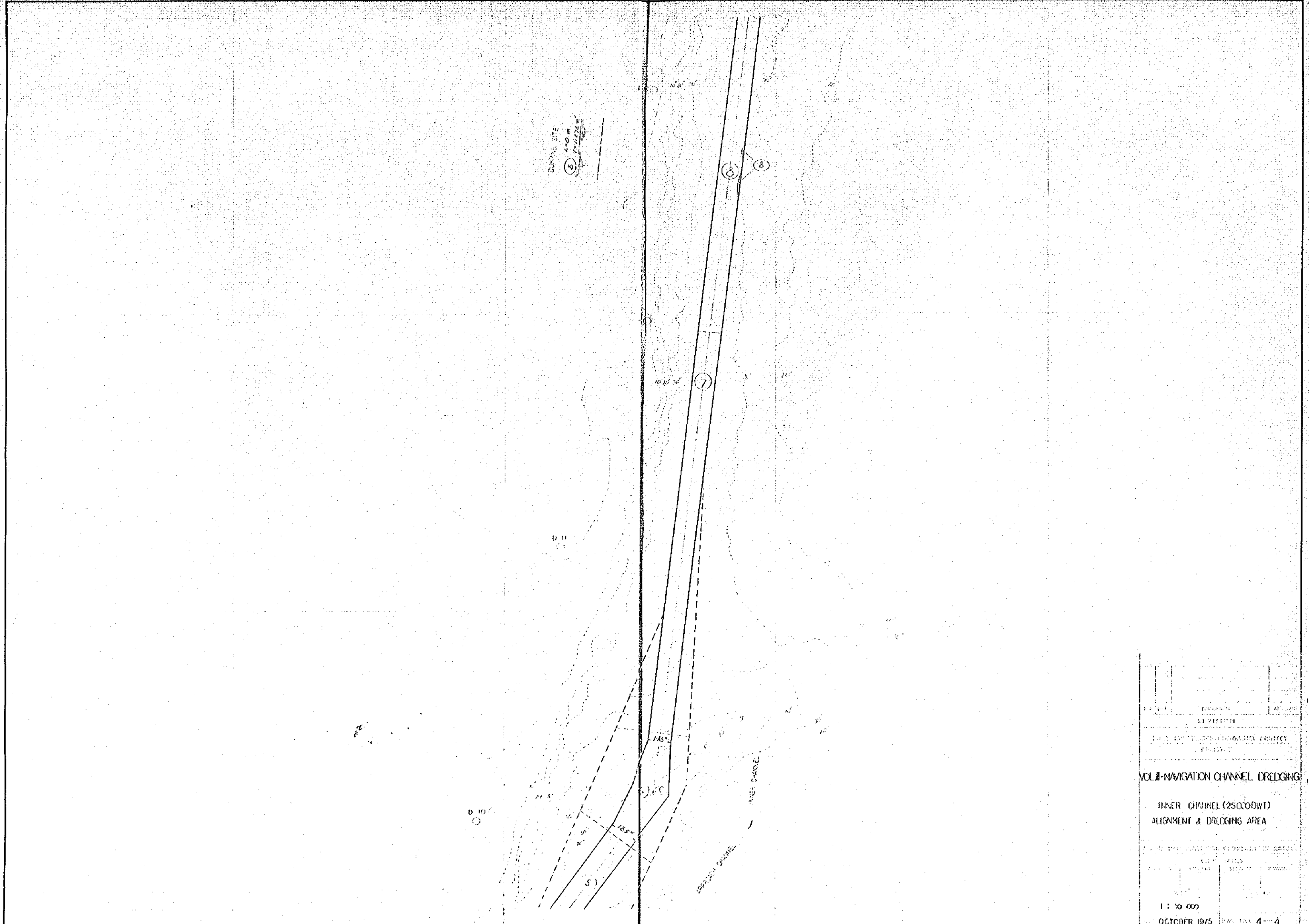
4-2



**MULTI-NAVIGATION CHANNEL DREDGING**

APPROACH CHANNEL (25,000 DWT)  
ALIGNMENT & DREDGING AREA





DUMPING SITE  
 ⑤ 400 M

D-11

D-10

⑤

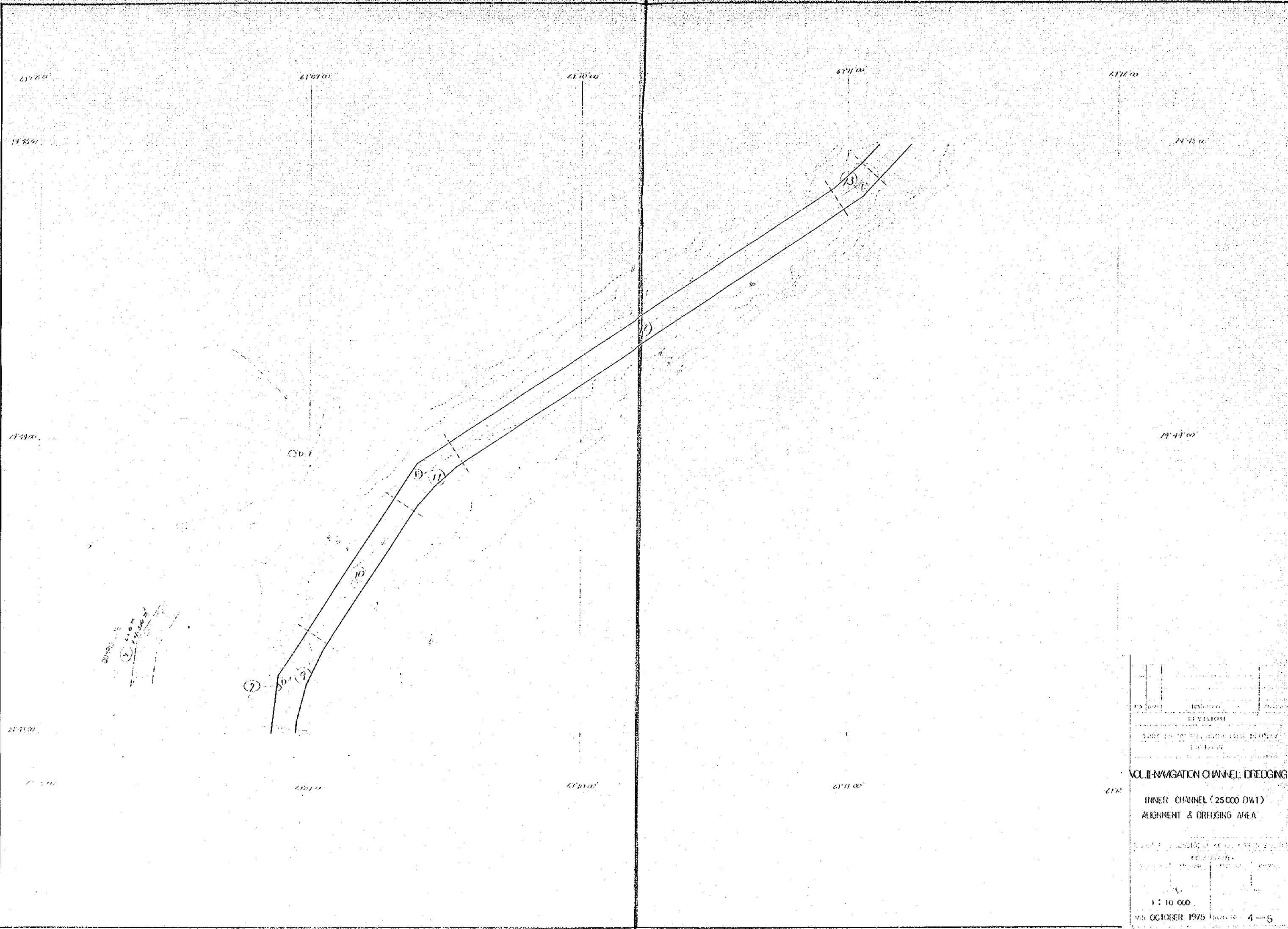
⑦

⑥

⑧

ANE - CHANNEL  
 155m  
 145m  
 135m  
 125m  
 115m  
 105m  
 95m  
 85m  
 75m  
 65m  
 55m  
 45m  
 35m  
 25m  
 15m  
 5m  
 0m  
 10m  
 20m  
 30m  
 40m  
 50m  
 60m  
 70m  
 80m  
 90m  
 100m  
 110m  
 120m  
 130m  
 140m  
 150m  
 160m  
 170m  
 180m  
 190m  
 200m  
 210m  
 220m  
 230m  
 240m  
 250m  
 260m  
 270m  
 280m  
 290m  
 300m  
 310m  
 320m  
 330m  
 340m  
 350m  
 360m  
 370m  
 380m  
 390m  
 400m  
 410m  
 420m  
 430m  
 440m  
 450m  
 460m  
 470m  
 480m  
 490m  
 500m  
 510m  
 520m  
 530m  
 540m  
 550m  
 560m  
 570m  
 580m  
 590m  
 600m  
 610m  
 620m  
 630m  
 640m  
 650m  
 660m  
 670m  
 680m  
 690m  
 700m  
 710m  
 720m  
 730m  
 740m  
 750m  
 760m  
 770m  
 780m  
 790m  
 800m  
 810m  
 820m  
 830m  
 840m  
 850m  
 860m  
 870m  
 880m  
 890m  
 900m  
 910m  
 920m  
 930m  
 940m  
 950m  
 960m  
 970m  
 980m  
 990m  
 1000m

PROJECT	NO. 1000	DATE	1975
DESIGNER	11/15/1974	SCALE	1:10,000
VOL. II - NAVIGATION CHANNEL DREDGING			
INNER CHANNEL (2500QWT)			
ALIGNMENT & DREDGING AREA			
1 : 10 000			
OCTOBER 1975 DWG. NO. 4-4			



NO. 100	REVISION
REVISION	
DATE: 10/10/75	
PROJECT:	
VOL. II - NAVIGATION CHANNEL DREDGING	
INNER CHANNEL (25,000 DWT)	
ALIGNMENT & DREDGING AREA	
SCALE:	
1:10,000	
DATE: OCTOBER 1975	
PAGE: 4-5	



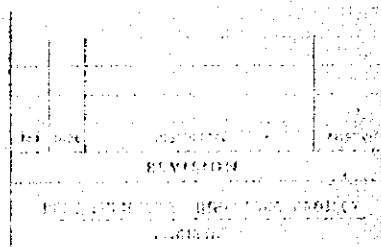
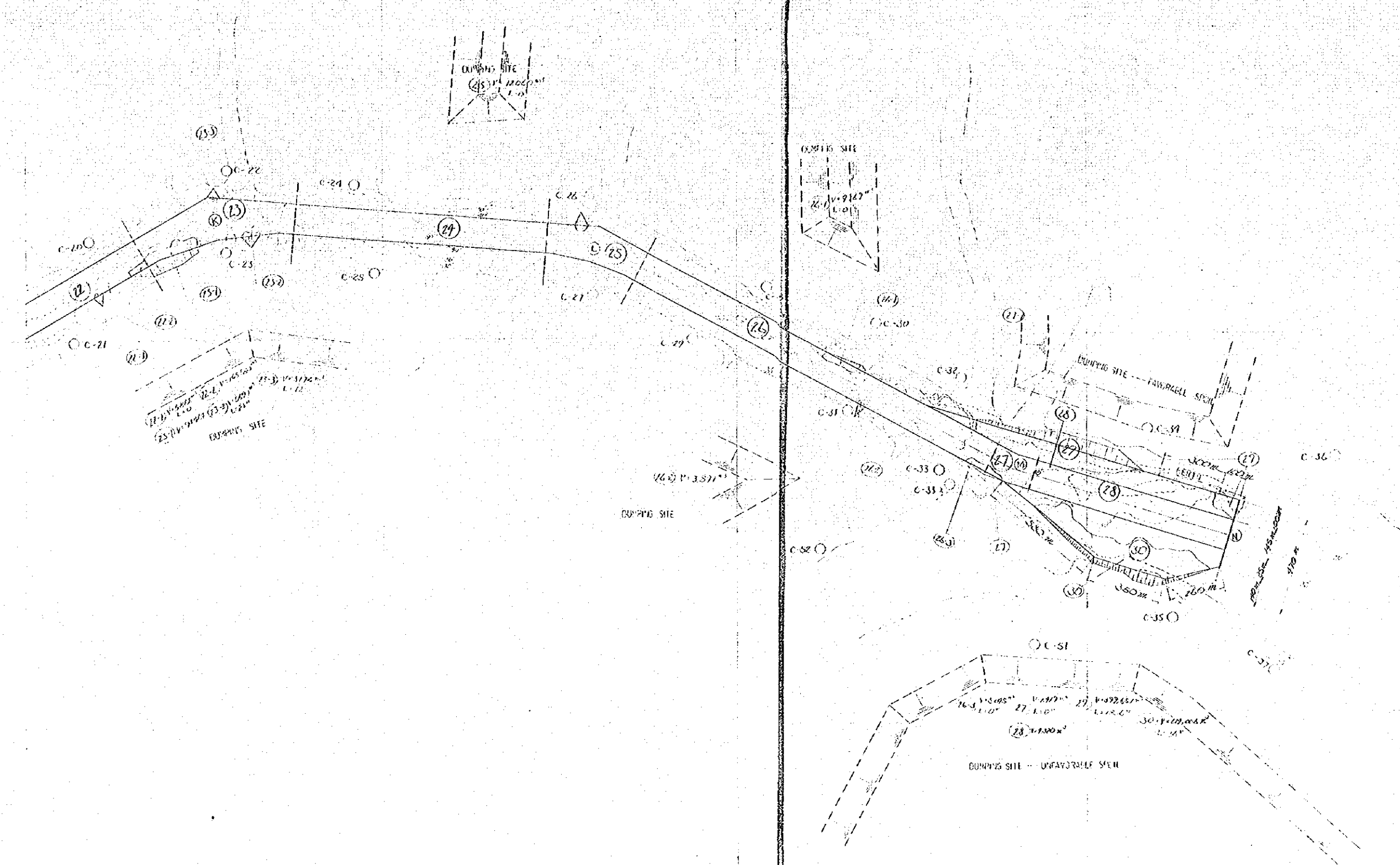
U.S. ARMY CORPS OF ENGINEERS  
 DISTRICT OFFICE  
 CIVIL DIVISION  
 PROJECT NUMBER: 100-1-100-100  
 DRAWING NUMBER: 100-1-100-100  
 TITLE: NAVIGATION CHANNEL DREDGING  
 INNER CHANNEL (2500 DWT)  
 ALIGNMENT & DREDGING AREA  
 SCALE: 1" = 100'  
 DATE: OCTOBER 1975 DRAWING NO. 4-6

27° 15' 00" 27° 16' 00" 27° 17' 00" 27° 18' 00" 27° 19' 00"

27° 18' 00"

27° 41' 00"

27° 40' 00"



VOL. II - NAVIGATION CHANNEL DREDGING

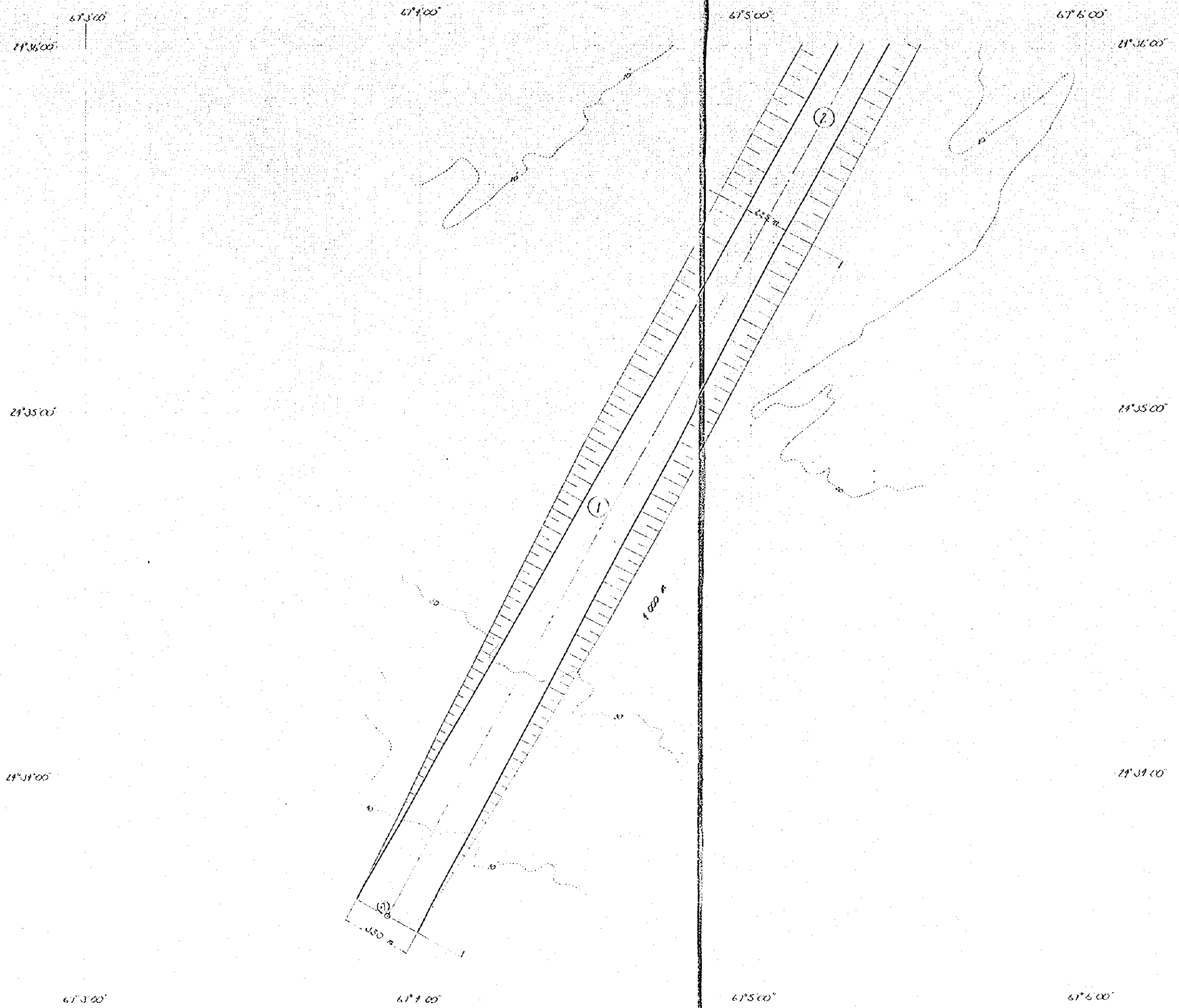
INNER CHANNEL (25 000 CWT)  
ALIGNMENT & DREDGING AREA

PROJECT NO. 100-100-100-100-100  
DATE: 1975

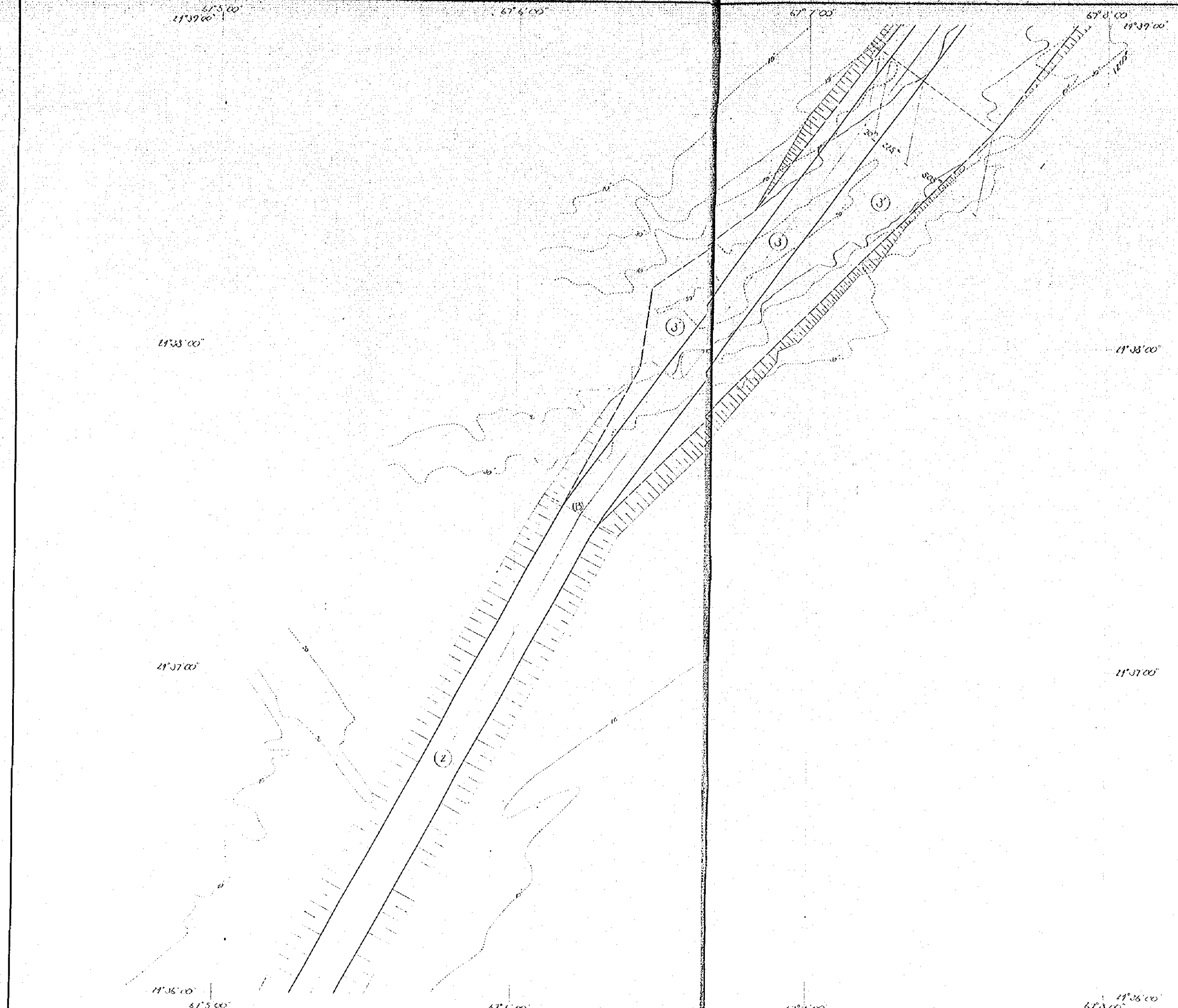
1 : 10 000

OCTOBER 1975 4-7

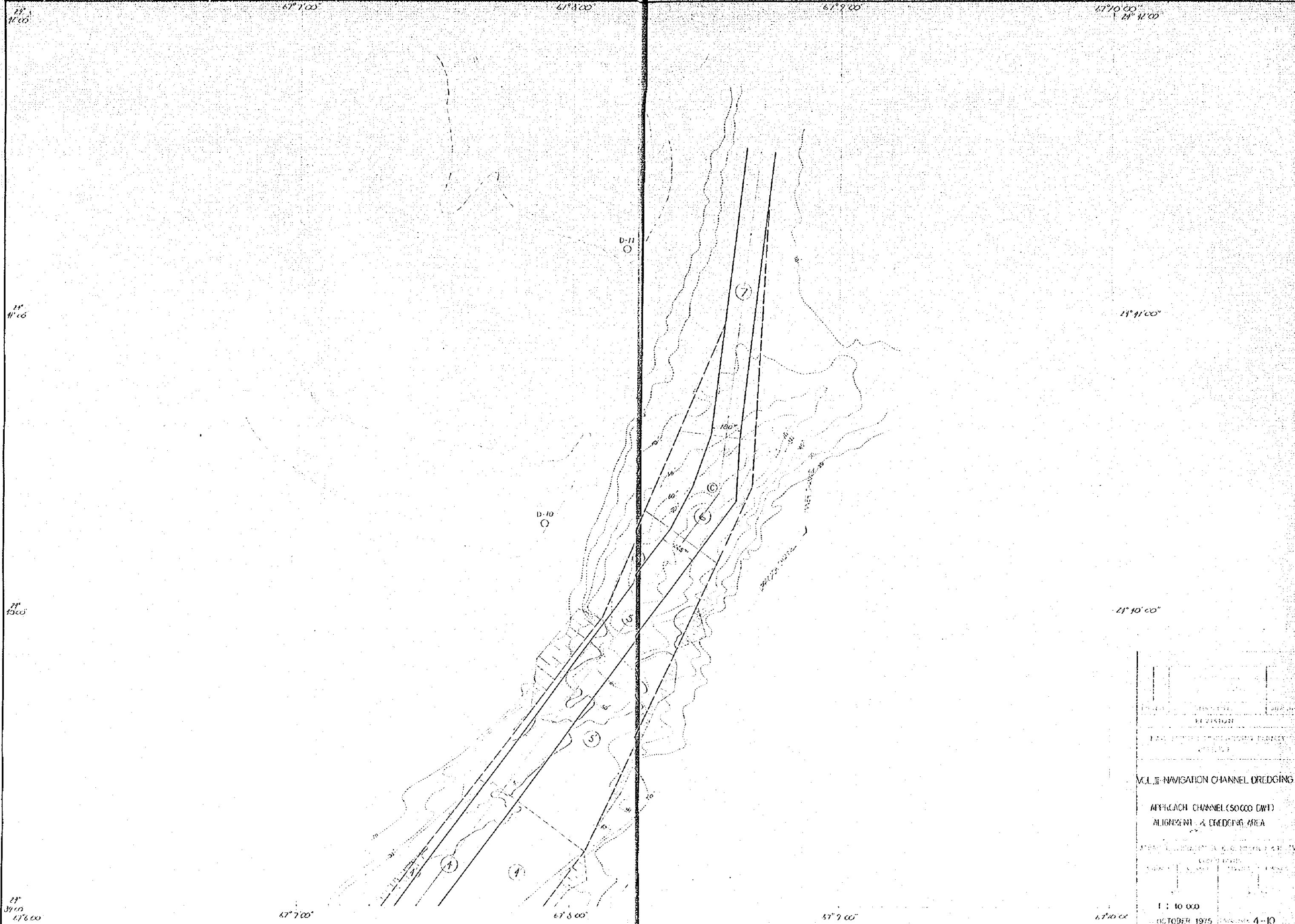
27° 15' 00" 27° 16' 00" 27° 17' 00" 27° 18' 00" 27° 19' 00"



PROJECT NO.	2136
DATE	10/1973
SCALE	1:10,000
<b>VCLB-NAVIGATION CHANNEL DREDGING</b>	
<b>APPROACH CHANNEL (50,000 DWT)</b>	
<b>ALIGNMENT &amp; DREDGING AREA</b>	
DESIGNED BY	
CHECKED BY	
DATE	
1:10,000	
OCTOBER 1973	
4-8	



NO.	DESCRIPTION	DATE
REVISION		
APPROVED BY: [Signature]		
DATE: [Date]		
<b>VOLUME NAVIGATION CHANNEL DREDGING</b> <b>APPROACH CHANNEL (50,000 DWT)</b> <b>ALIGNMENT &amp; DREDGING AREA</b>		
<small>SCALE: AS SHOWN ON SHEETS 4-8, 4-9, 4-10, 4-11, 4-12, 4-13, 4-14, 4-15, 4-16, 4-17, 4-18, 4-19, 4-20</small>		
1 : 10 000		
OCTOBER 1975 SHEET NO. 4-9		



DESIGNED BY	DATE
REVISION	
SCALE: 1" = 100'	
M.C.L. NAVIGATION CHANNEL DREDGING	
APPROACH CHANNEL (50,000 DWT)	
ALIGNMENT & DREDGING AREA	
DATE: OCTOBER 1975	
SHEET: 4-10	

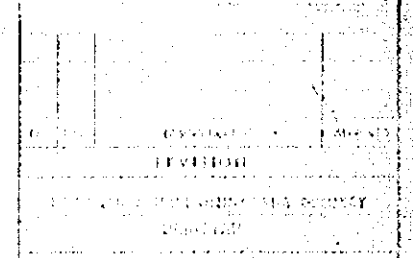
67°10' 67°8'00" 67°9'00" 67°10'00" 67°11'00"

21°12'00"

21°12'00"

21°11'00"

21°11'00"



VOL. II - NAVIGATION CHANNEL DREDGING

INNER CHANNEL (50000 DWT)  
ALIGNMENT & DREDGING AREA

U.S. ARMY CORPS OF ENGINEERS  
WATERWAYS DIVISION  
Vicksburg, Mississippi

1 : 10 000

OCTOBER 1975 4-11

67°10'00" 67°9'00"

67°8'00"

67°9'00"

67°10'00"



67° 15' 00" W  
21° 15' 00" N

67° 9' 00" W

67° 10' 00" W

67° 11' 00" W

67° 12' 00" W  
21° 15' 00" N

21° 11' 00" N

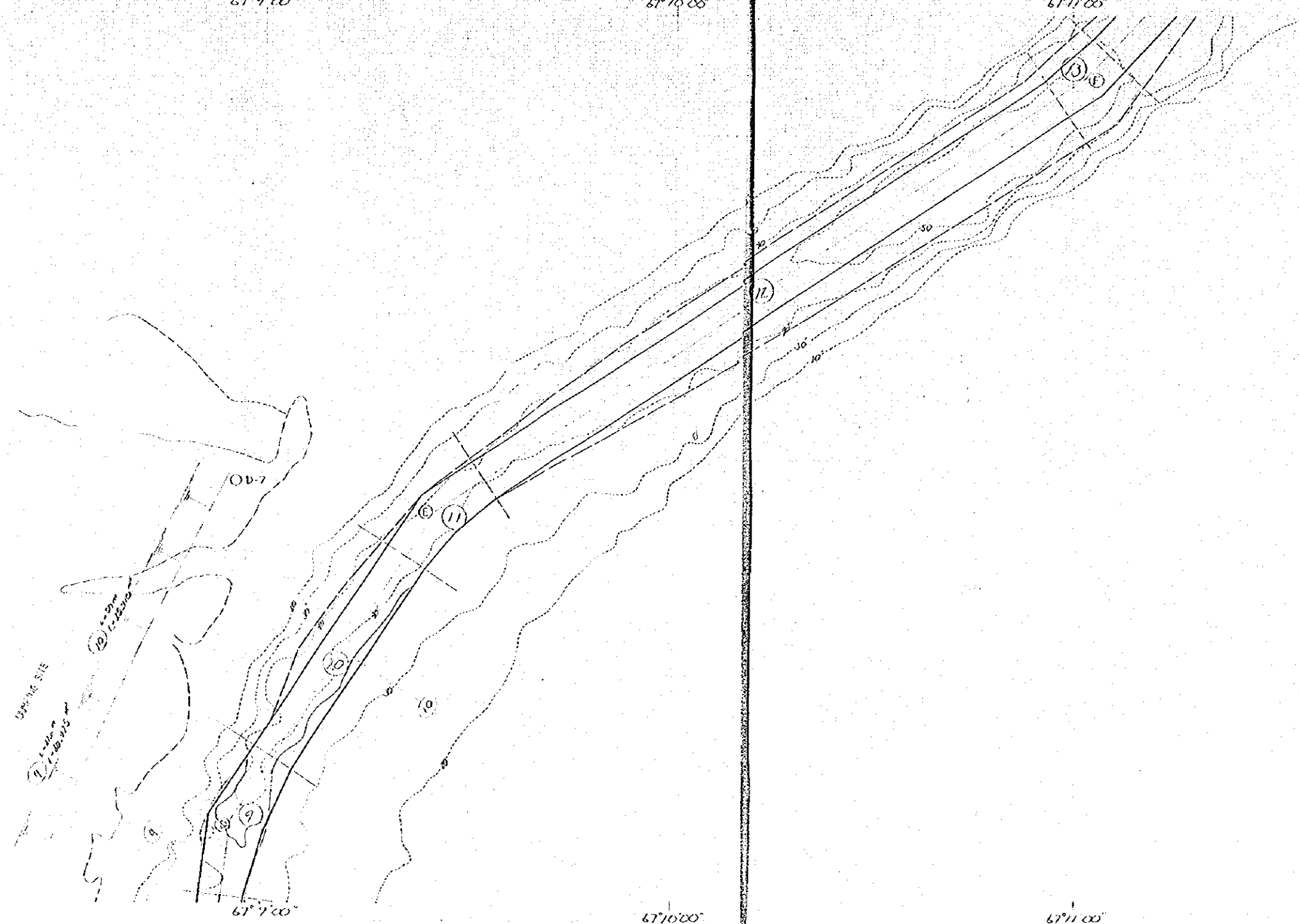
21° 11' 00" N

67° 15' 00" W  
21° 15' 00" N

67° 9' 00" W

67° 10' 00" W

67° 11' 00" W



NO.	DATE	REVISION

VOL. III - NAVIGATION CHANNEL DREDGING

INNER CHANNEL (50,000 DWT)  
ALIGNMENT & DREDGING AREA

1 : 10,000

OCTOBER 1975 DRAWING 4-12

671100  
1171500

671100

671300

671400

671500  
1171500

117100

117100

117100

117100

671500

671100

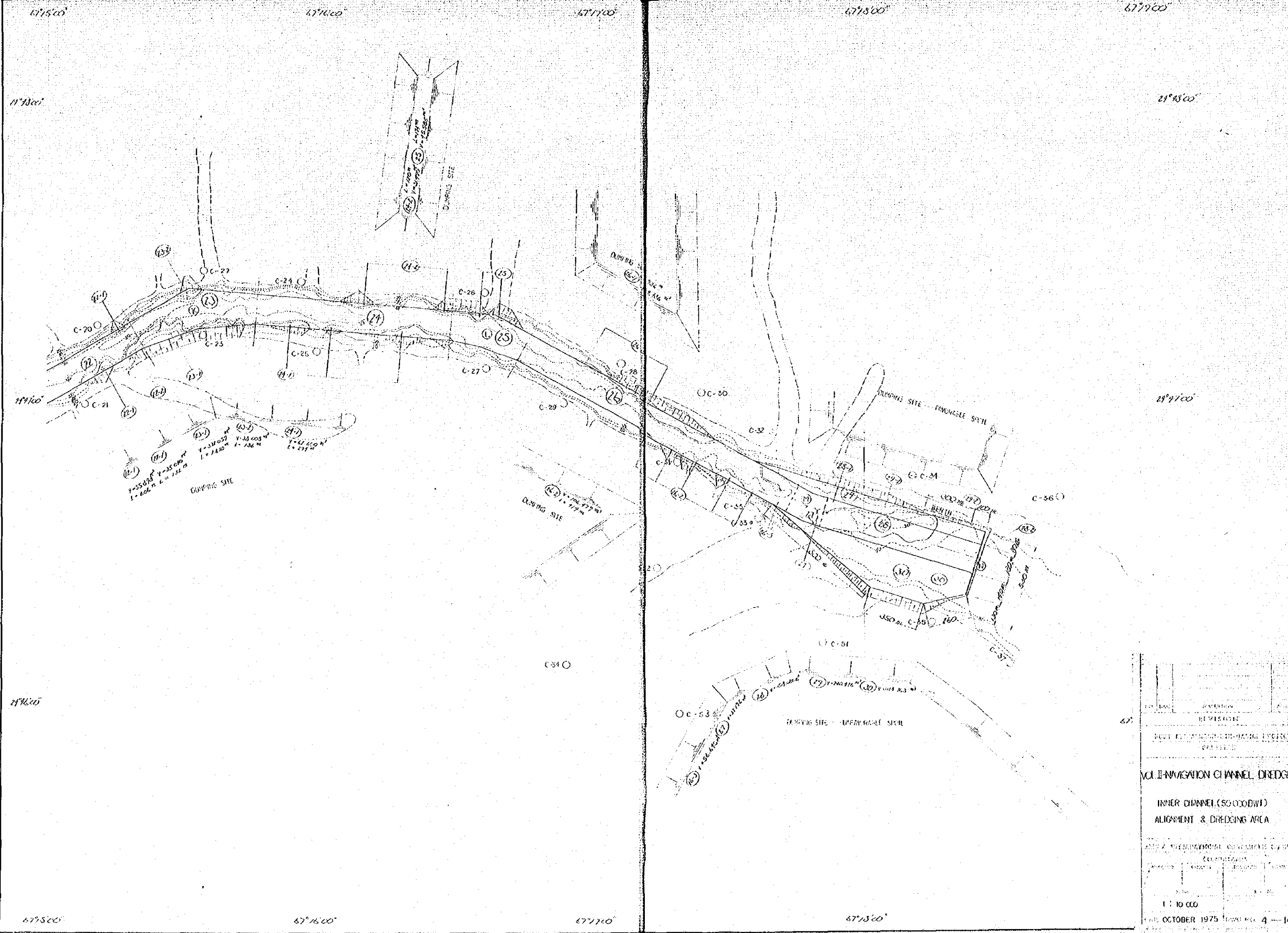
671200

671300

671400



DESIGNED BY	DATE
CHECKED BY	REVISION
APPROVED BY	PROJECT NO.
<b>VOL. III - NAVIGATION CHANNEL DREDGING</b> <b>INNER CHANNEL (50000 DWT)</b> <b>ALIGNMENT &amp; EXCESSING AREA</b>	
SCALE: 1" = 1000' OCTOBER 1971	
SHEET NO. 4-13	



NO.	DATE	REVISION	BY

PORT AUTHORITY OF NEW YORK AND NEW JERSEY  
PORT AUTHORITY

**NEW YORK NAVIGATION CHANNEL DREDGING**

INNER CHANNEL (50'00'DWT)  
ALIGNMENT & DREDGING AREA

DATE: OCTOBER 1975

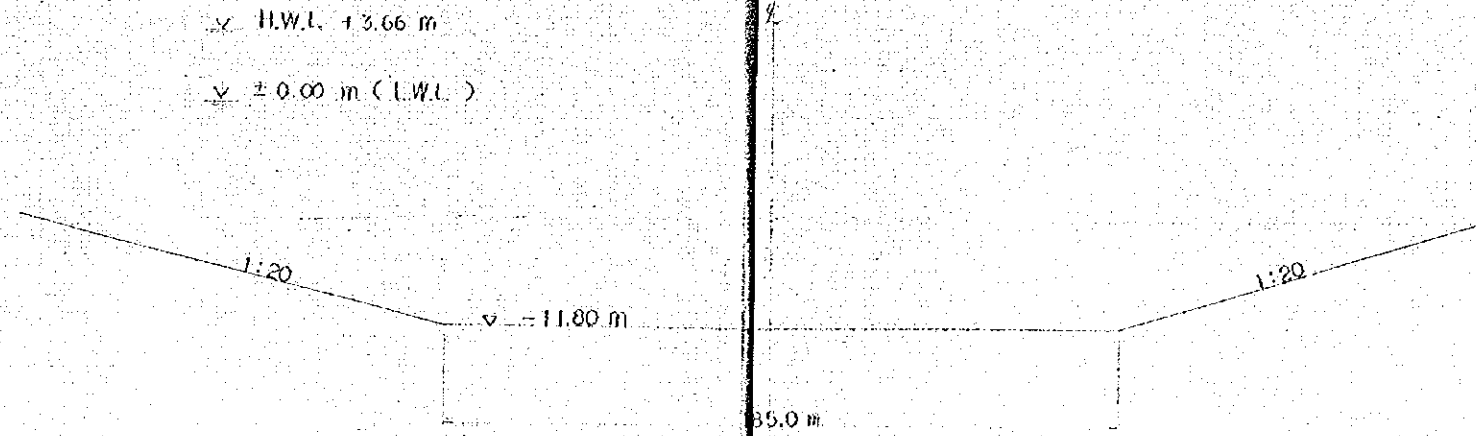
1 : 10 000

NOV 4 1975

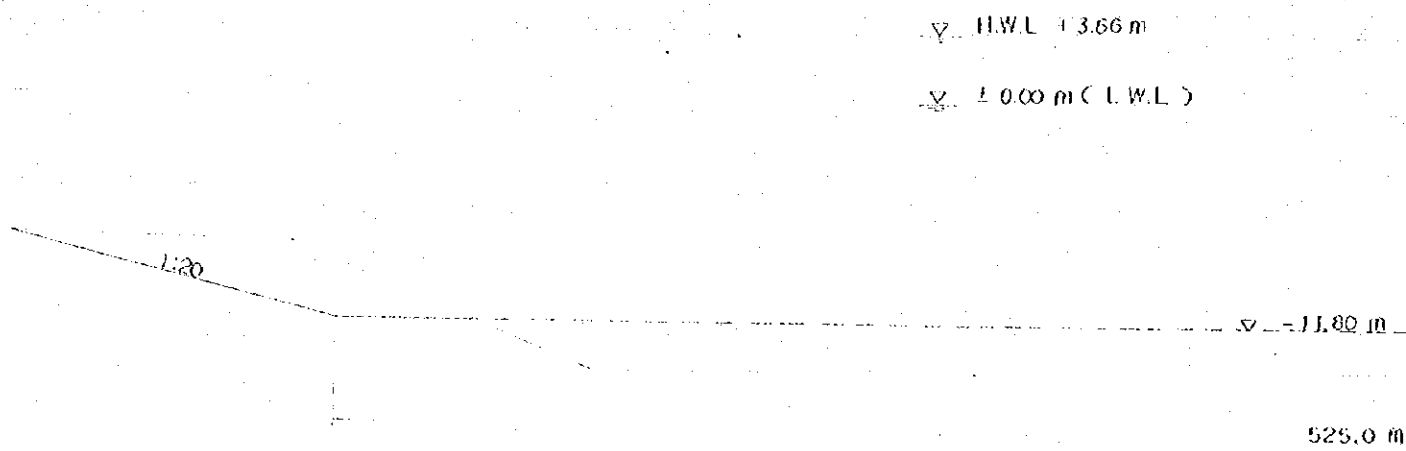
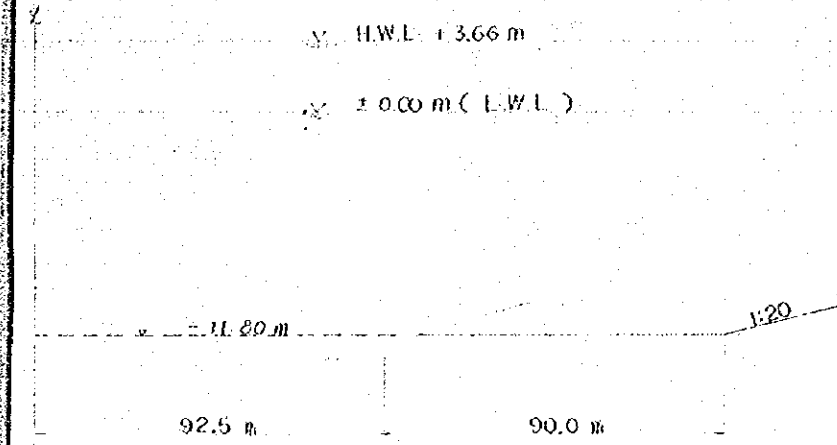
TYPICAL CROSS SECTION APPROACH CHANNEL (25000 DWT)

Scale H=1:1000 V=1:200

Outer Approach Channel



Inner Approach Channel

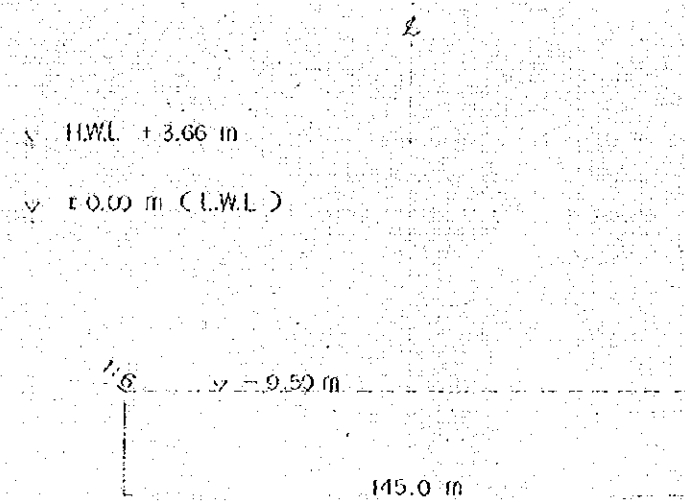


VOL. II - NAVIGATION CHANNEL  
 DREDGING  
 TYPICAL CROSS SECTION  
 APPROACH CHANNEL DREDGING  
 (25000 DWT)  
 H = 1 : 1000  
 V = 1 : 200  
 OCTOBER 1975 5-1

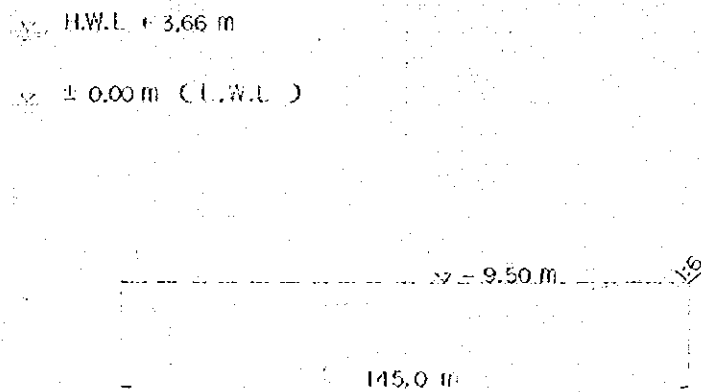
TYPICAL CROSS SECTION OF INNER CHANNEL (25 000 DWT)

Scale H=1:1 000 V=1:200

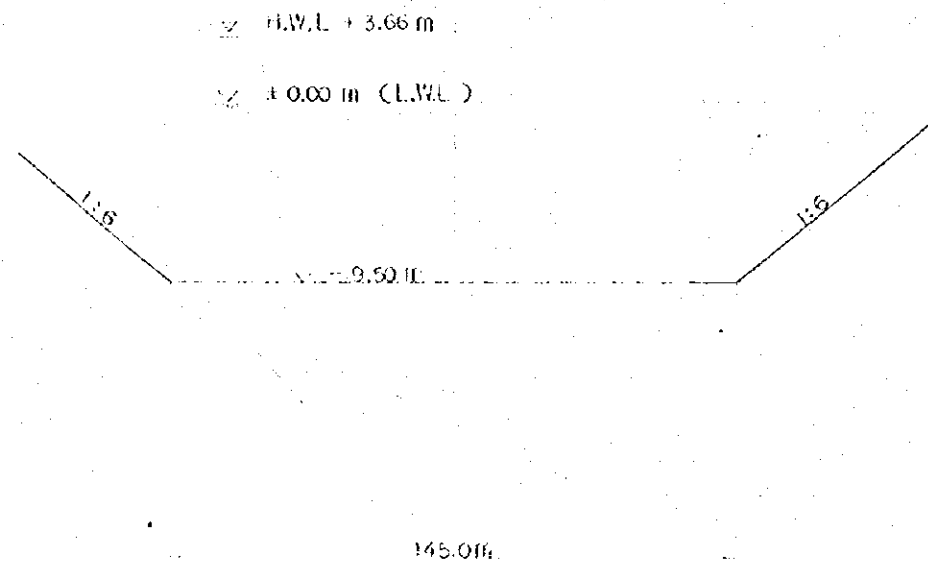
LOWER PHITTI CREEK CHANNEL



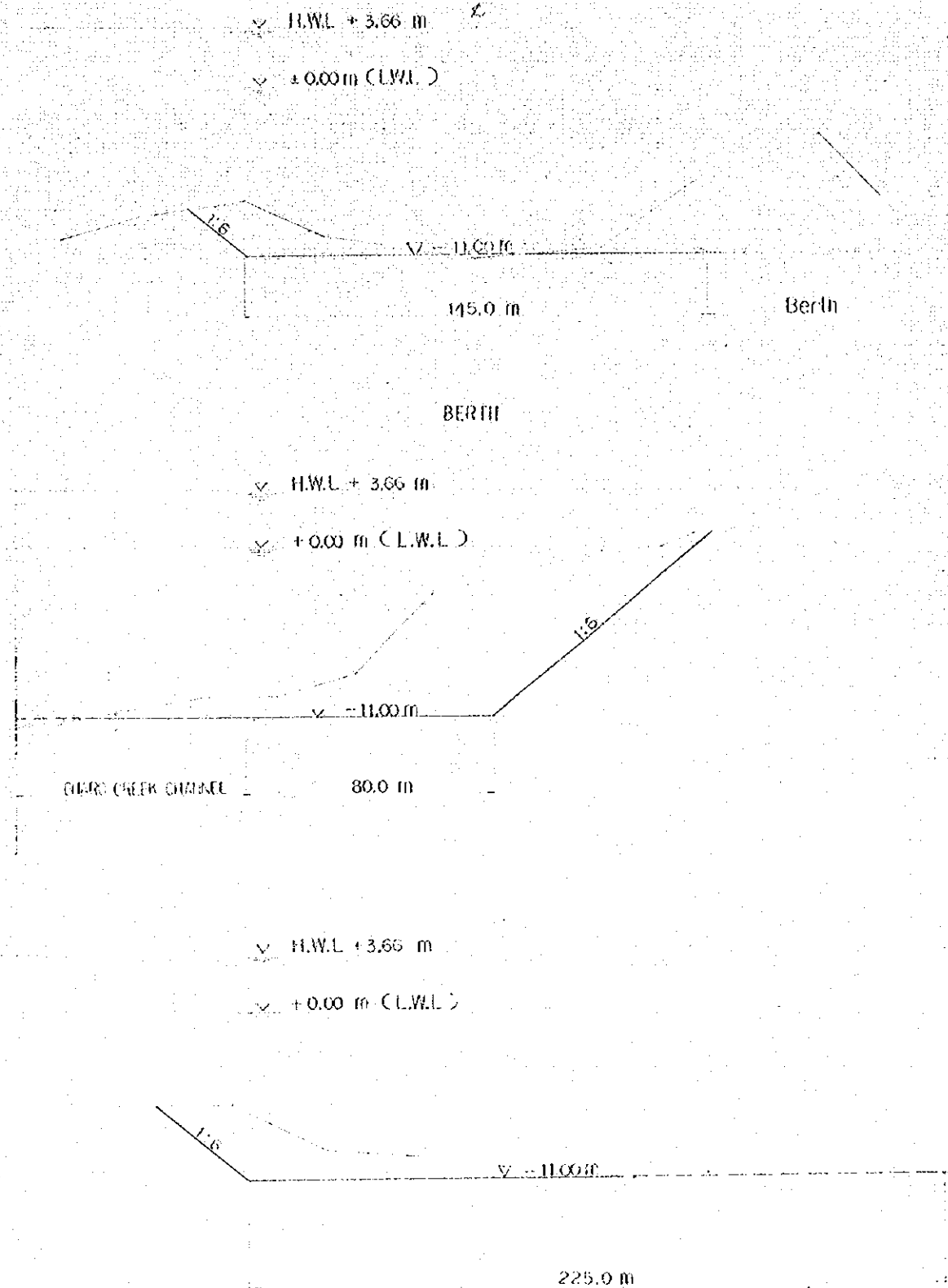
UPPER PHITTI CREEK CHANNEL



KADIRO CREEK CHANNEL



GHARO CREEK CHANNEL



REVISION			
NO.	DATE	DESCRIPTION	APPROVED
PORT MUHAMMAD BIN QASIM PROJECT PAKISTAN			
Y.R. NAVIGATION CHANNEL DREDGING TYPICAL CROSS SECTION INNER CHANNEL 25 000 DWT			
JAPAN INTERNATIONAL COOPERATION AGENCY			
CO-OPERATION			
DESIGNED	DRAWN	CHECKED	FRAMED
H=1:1 000 V=1:200		DATE OCTOBER 1975 DRAWING NO. 5-2	

TYPICAL CROSS SECTION OF APPROACH CHANNEL (50000 DWT)  
 Scale H = 1:1000 V = 1:200

Outer Approach Channel

▽ H.W.L. = + 3.66 m

▽ + 0.00 m (L.W.L.)

1:20

▽ - 13.60 m

225.0 m

1:20

Inner Approach Channel

▽ H.W.L. = + 3.66 m

▽ + 0.00 m (L.W.L.)

▽ - 13.60 m

112.5 m

70.0 m

1:20

▽ H.W.L. = + 3.66 m

▽ + 0.00 m (L.W.L.)

▽ - 13.60 m

505.0 m

112.5 m

PROJECT	PORT OF SINGAPORE
DIVISION	NAVIGATION
DESIGNER	NAVIGATION DIVISION
DATE	1975

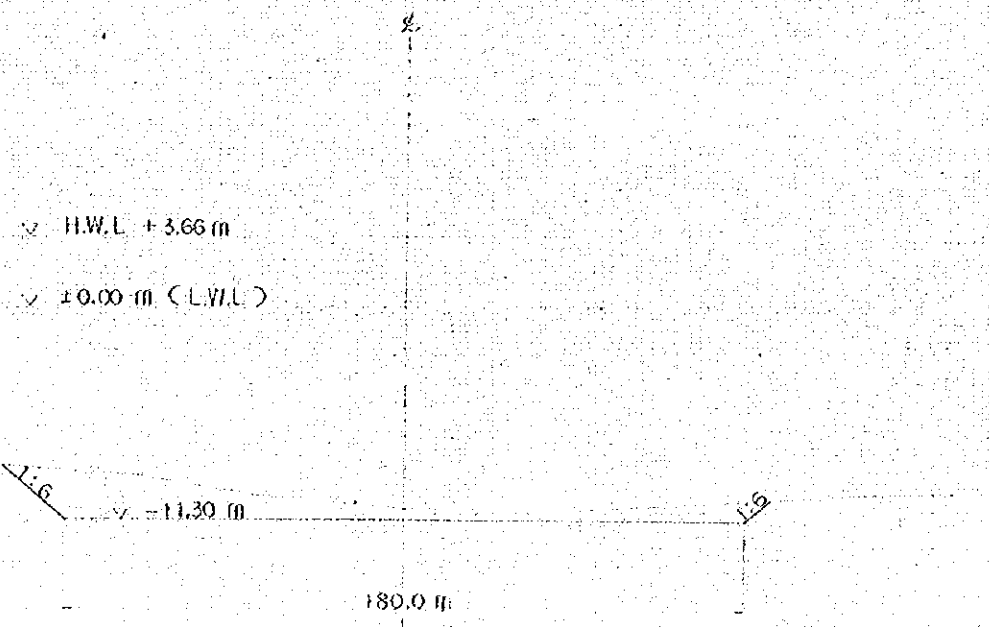
VOLUME - NAVIGATION CHANNEL DREDGING  
 TYPICAL CROSS SECTION  
 APPROACH CHANNEL DREDGING  
 (50000 DWT)

NO.	DATE	BY	CHKD.
1	1975		
SCALE		REV.	
H = 1:1000		REV. 01	
V = 1:200			
DATE	DWG. NO.		
OCTOBER 1975	5-3		

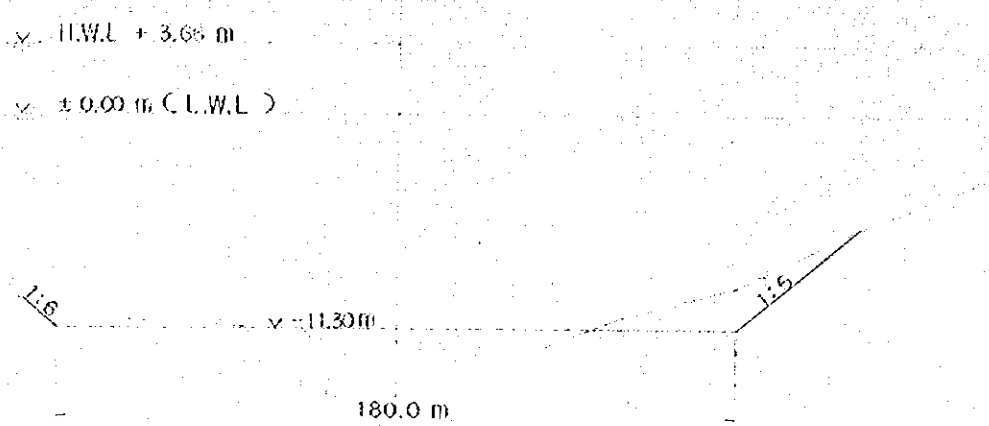
TYPICAL CROSS SECTION OF INNER CHANNEL (500) DWT

Scale H=1:1000 V=1:200

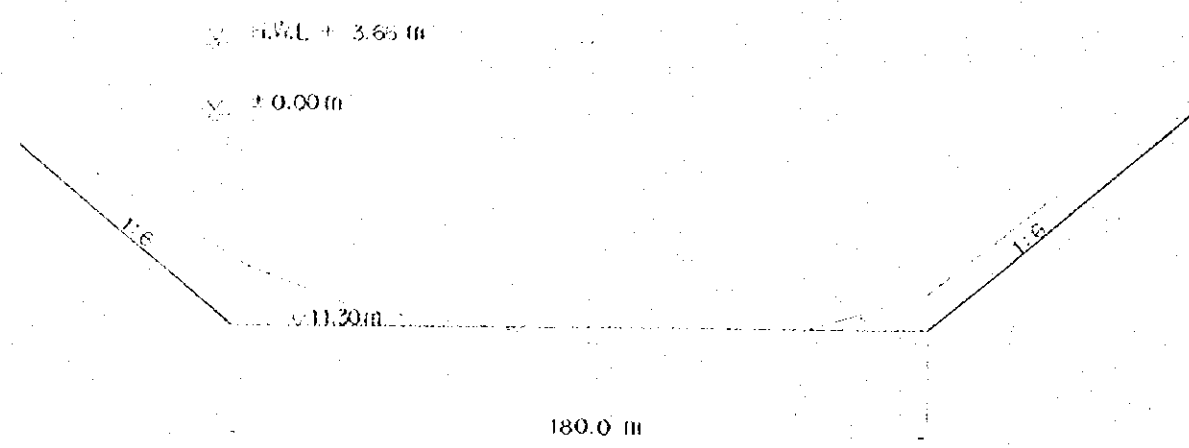
LOWER PHITTI CREEK CHANNEL



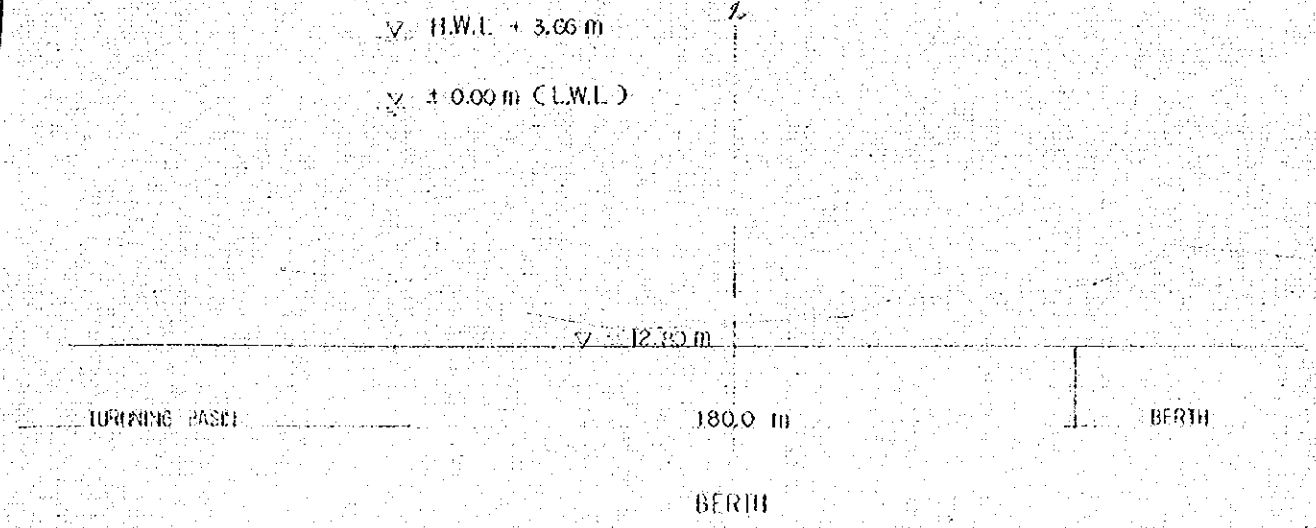
UPPER PHITTI CREEK CHANNEL



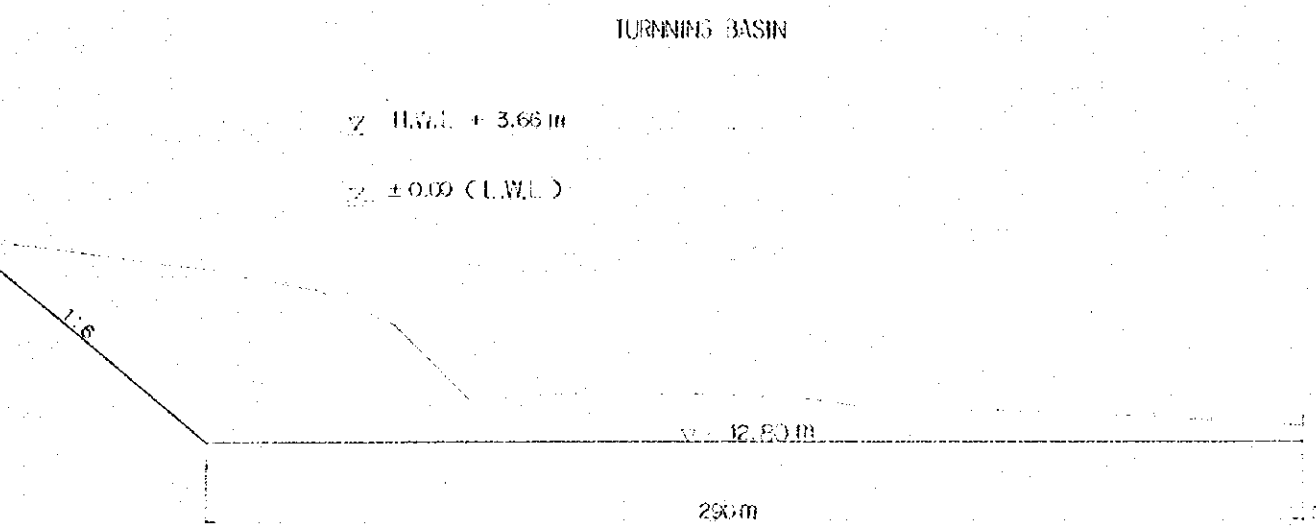
KADIRO CREEK CHANNEL



GHARJ CREEK CHANNEL



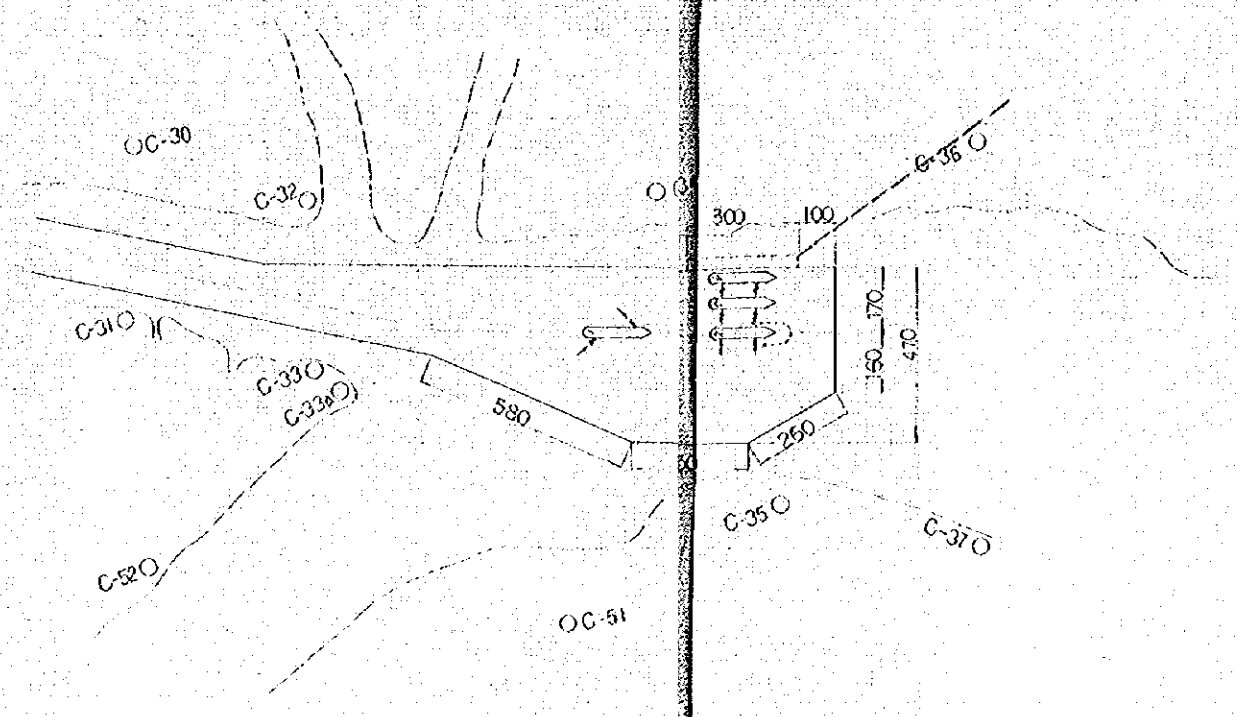
GHARJ CREEK CHANNEL



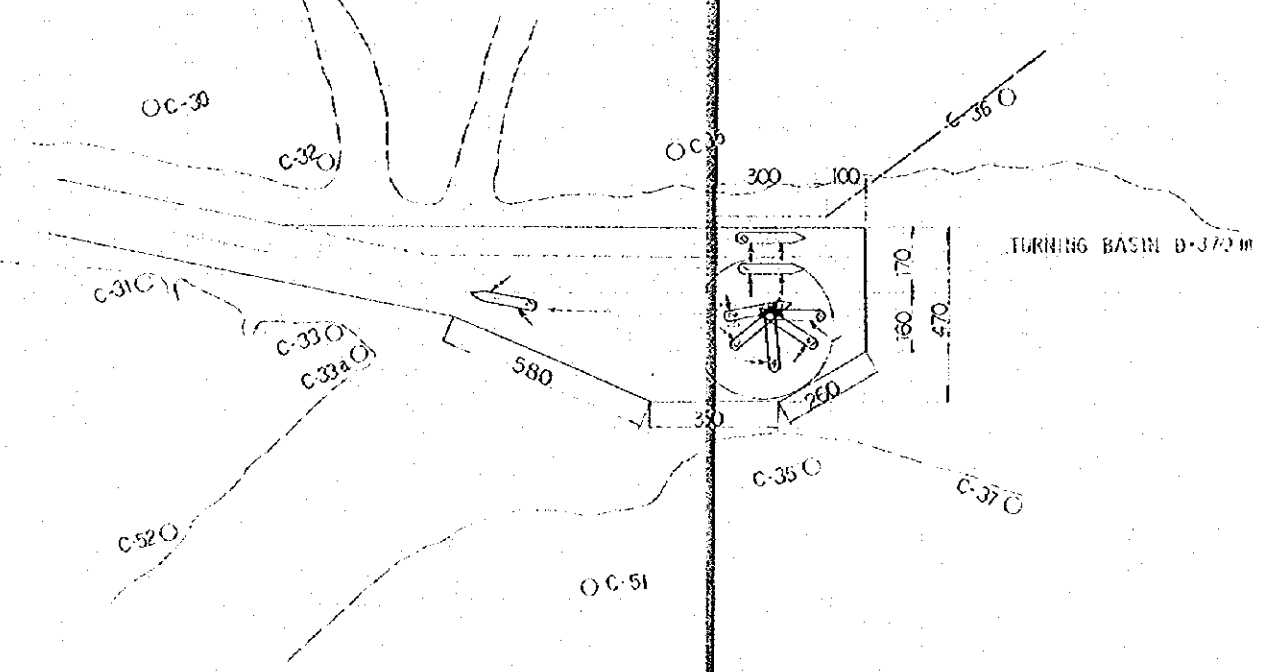
GHARJ CREEK CHANNEL

NO.	DATE	REVISION
PORT MUMBAHAB-BIN QASIM PROJECT PARSIYAR		
V.L.H. DIVISION OFFICE, DUBAI		
GENERAL ENGINEER, PORT MUMBAHAB-BIN QASIM PROJECT		
CONSULTANTS		
APPROVED	CHECKED	DESIGNED
SCALE H = 1:1000 V = 1:200		
DATE OCTOBER 1975		
PAGE NO. 5-4		

BERTHING MANEUVERS OF 25,000 DWT VESSEL SCALE 1:10,000  
UNIT: m



DEBERTHING MANEUVERS OF 25,000 DWT VESSEL SCALE 1:10,000  
UNIT: m

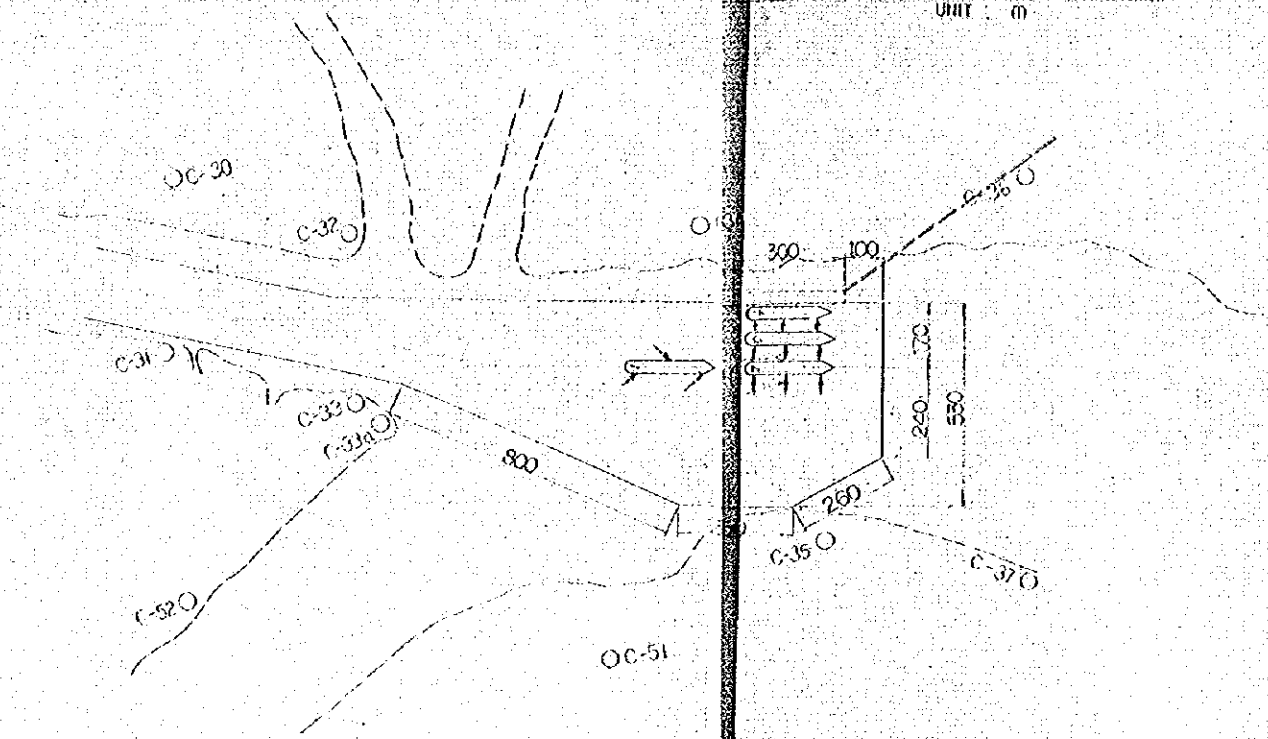


NO.	DATE	DESCRIPTION	APPROVED
REVISION			
PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN			
MULTI-VARIATION CHANNEL BRIDGING			
BERTHING AND DEBERTHING MANEUVERS OF 25,000 DWT VESSEL			
JAPAN INTERNATIONAL COOPERATION AGENCY			
CONSULTANTS			
APPROVED	CHECKED	DESIGNED	DRAWING
SCALE		REV. NO.	
1:10,000			
DATE OCTOBER 1975		DWG. NO. 6-1	

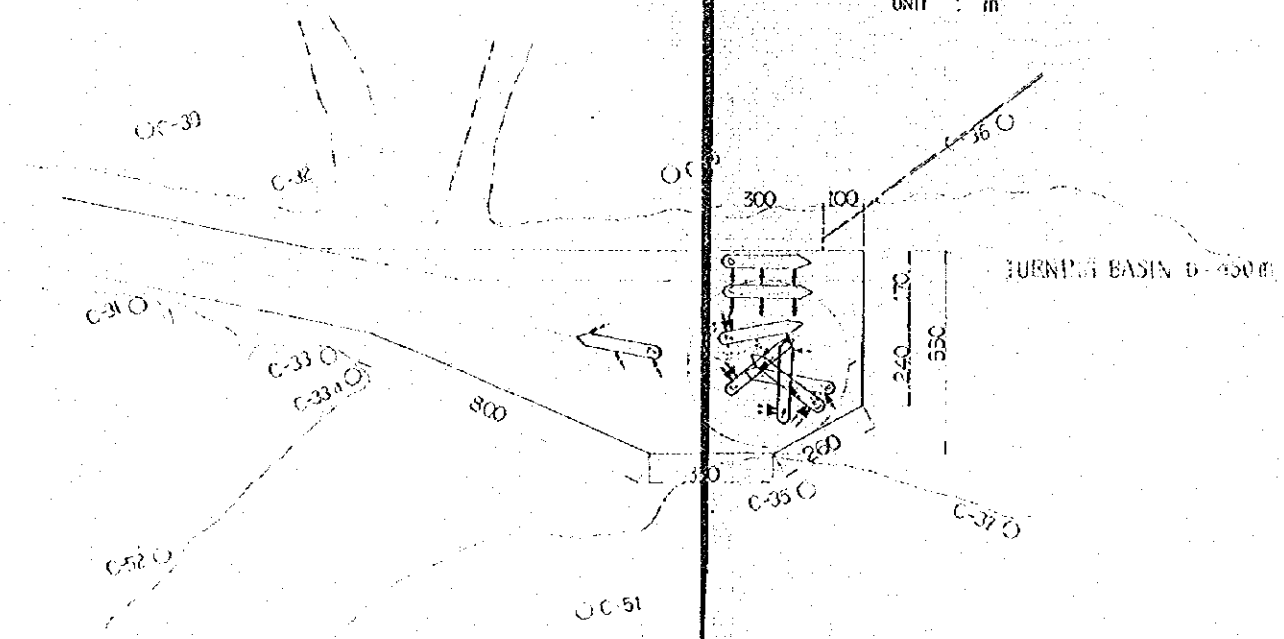


GENERAL NOTES

BERTHING MANEUVERS OF 50,000 DWT VESSEL SCALE 1:10,000  
UNIT : m



DEBERTHING MANEUVERS OF 50,000 DWT VESSEL SCALE 1:10,000  
UNIT : m



NO.	DATE	DESCRIPTION	APPROVED
REVISION			
PORT MUHAMMAD-BIN-QASIM PROJECT PAKISTAN			
VOLI-NAVIGATION CHANNEL DREDGING			
BERTHING AND DEBERTHING MANEUVERS OF 50,000 DWT VESSEL			
JAPAN INTERNATIONAL COOPERATION AGENCY			
CONSULTANTS			
APPROVED	CHECKED	DESIGNED	DRAWING
SCALE		REV. No.	
1:10,000			
DATE OCTOBER 1975		DWG. NO. 6-2	

