

US Army Corps of Engineers® LOS ANGELES DISTRICT

SAN DIEGO COUNTY, CALIFORNIA

OCEANSIDE HARBOR

MAINTENANCE DREDGING

SOLICITATION NO.: W912PL-22-R-0008

CONTRACT NO.:

ISSUE DATE: JANUARY 2022

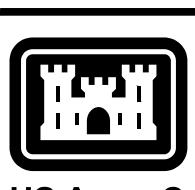
THIS PROJECT WAS DESIGNED BY THE
LOS ANGELES DISTRICT CORPS OF
ENGINEERS. THE INITIALS OR SIGNATURES
AND REGISTRATION DESIGNATIONS OF
INDIVIDUALS APPEAR ON THESE
PROJECT DOCUMENTS WITHIN THE
SCOPE OF THEIR EMPLOYMENT
AS REQUIRED BY ER 1110-1-8152.
SIGNATURES INDICATE OFFICIAL
RECOMMENDATION OF ALL DRAWINGS IN
THIS SET.
PREPARED UNDER THE DIRECTION OF:

COLONEL JULIE A. BALTEN

DISTRICT ENGINEER

APPROVED BY: DATE:
CHIEF ENGINEERING DIVISION

SUBMITTED BY: DATE:
CHIEF DESIGN BRANCH

US Army Corps
of Engineers®

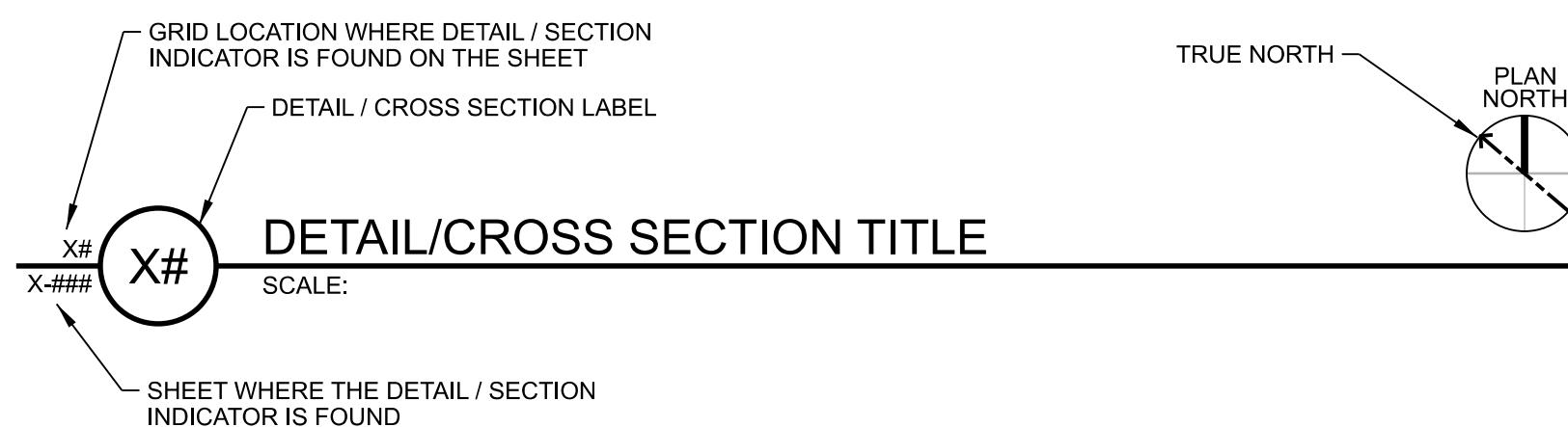
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GENERAL SHEET NOTES

1. HORIZONTAL DATUM: NAD 1983 EPOCH 2004
2. PROJECTION: CA ZONE VI
3. UNITS: U.S. SURVEY FEET
4. VERTICAL DATUM: MEAN LOWER LOW WATER, EPOCH 1983-2001, DATUM ESTABLISHED FROM OCEANSIDE, STATION ID: 9410396
5. ELEVATIONS ARE ESTABLISHED FROM 3096 A (VM#7990), ELEVATION 16.27 U.S. SURVEY FEET
6. SEE SHEET CN101 FOR SURVEY CONTROLS AND COORDINATES

DETAIL / CROSS SECTION DESCRIPTION



C10 OCEANSIDE GENERAL SITE PLAN
SCALE: 1" = 800'

0 800' 1600' PLAN NORTH

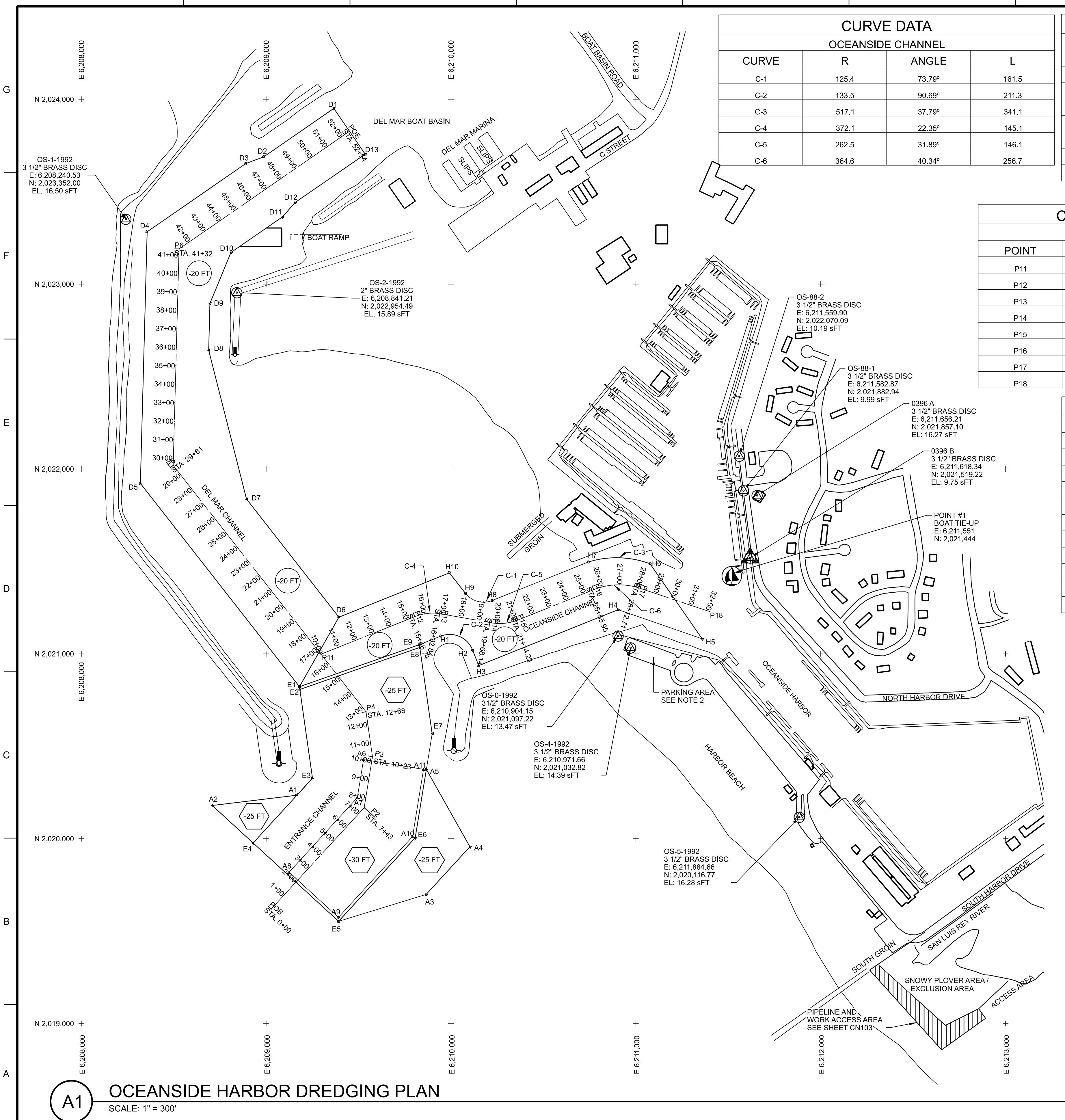
SAN DIEGO COUNTY, CALIFORNIA
OCEANSIDE HARBOR
MAINTENANCE DREDGING
INDEX TO DRAWINGS
GENERAL NOTES, AND SITE PLAN

SHEET ID
G-002

U.S. ARMY CORPS OF ENGINEERS
915 WILSHIRE BLVD.
LOS ANGELES DISTRICT
LOS ANGELES, CALIFORNIA 90017
DESIGNED BY:
C. HAYWARD
DRAWN BY:
C. HAYWARD
CHECKED BY:
J. RYANED
SUBMITTED BY:
OLUFUNKE A. OJURI P.E. C-0154
DISTRICT FILE NUMBER
SIZE: CADFILE
ANSID: 112912 G-002.dwg

INDEX TO DRAWINGS
GENERAL NOTES, AND SITE PLAN

ISSUE DATE:
JANUARY 2022
SOLICITATION NO.:
W912PL-22-R-0008
CONTRACT NO.:
SUBMITTED BY:
OLUFUNKE A. OJURI P.E. C-0154
SIZE: CADFILE
ANSID: 112912 G-002.dwg



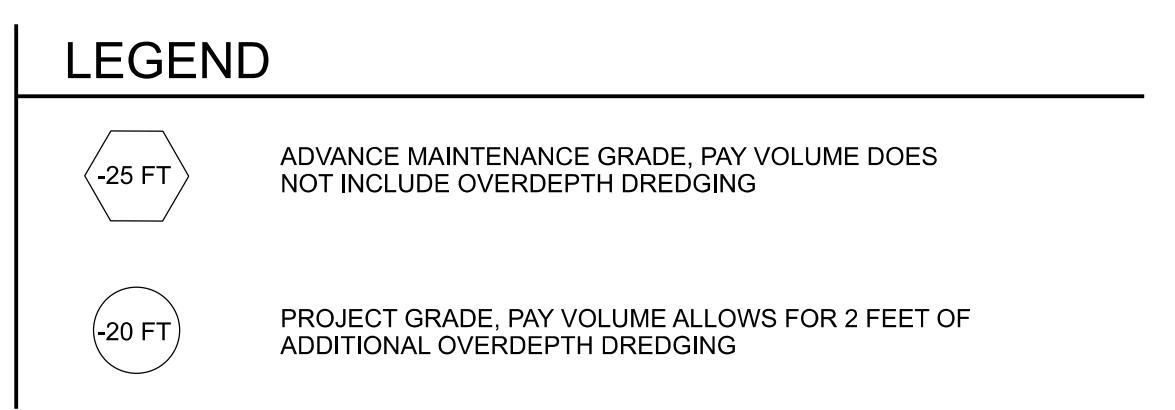
CURVE DATA OCEANSIDE CHANNEL			
CURVE	R	ANGLE	L
C-1	125.4	73.79°	161.5
C-2	133.5	90.69°	211.3
C-3	517.1	37.79°	341.1
C-4	372.1	22.35°	145.1
C-5	262.5	31.89°	146.1
C-6	364.6	40.34°	256.7

CHANNEL ALIGNMENT COORDINATES			
ENTRANCE CHANNEL AND DEL MAR CHANNEL			
POINT	STATION	EASTING	NORTHING
POB	0+00	6,209,027.51	2,019,619.65
P2	7+43.5	6,209,529.94	2,020,167.67
P3	10+23.0	6,209,574.99	2,020,443.59
P4	12+68.3	6,209,450.16	2,020,686.32
P5	29+61.3	6,208,496.72	2,022,019.58
P6	41+32.3	6,208,528.28	2,023,190.18
POE	52+53.5	6,209,450.92	2,023,827.26

CHANNEL LIMIT COORDINATES		
POINT	EASTING	NORTHING
ENTRANCE CHANNEL		
E1	6,209,179.90	2,020,821.90
E2	6,209,182.02	2,020,807.05
E3	6,209,250.60	2,020,327.10
E4	6,208,929.40	2,019,976.70
E5	6,209,391.71	2,019,552.80
E6	6,209,394.28	2,020,646.93
E7	6,209,898.00	2,020,567.70

CHANNEL ALIGNMENT COORDINATES				
OCEANSIDE CHANNEL				
POINT	TYPE	STATION	EASTING	NORTHING
P11	POB	10+00	6,209,296.39	2,020,997.82
P12	PC	15+46.7	6,209,803.90	2,021,201.19
P13	PT	16+91.9	6,209,947.36	2,021,215.98
P14	PC	19+67.2	6,210,218.43	2,021,167.91
P15	PT	21+13.3	6,210,361.88	2,021,182.70
P16	PC	25+56.1	6,210,771.91	2,021,349.99
P17	PT	28+12.8	6,211,023.29	2,021,354.28
P18	POE	32+10.1	6,211,400.06	2,021,228.12

SURVEY CONTROL POINTS			
OCEANSIDE HARBOR			
POINT	EASTING	NORTHING	ELEVATION
OS-0-1992	6,210,904.15	2,021,097.22	13.47
OS-1-1992	6,208,240.53	2,023,352.00	16.50
OS-2-1992	6,208,841.21	2,022,954.49	15.89
OS-4-1992	6,210,971.66	2,021,032.82	14.39
OS-5-1992	6,211,884.66	2,020,116.77	16.28
OS-88-1	6,211,582.87	2,021,882.94	9.99
OS-88-2	6,211,559.90	2,022,070.09	10.19
0396 A	6,211,656.21	2,021,857.10	16.27
0396 B	6,211,618.34	2,021,519.22	9.75
POINT #1	6,211,551	2,021,444	N/A



GENERAL SHEET NOTES

1. SEE SPECIFICATIONS FOR AVAILABLE VIBRA-CORE BORING LOGS AND LOCATIONS.
 2. COORDINATE WITH CITY OF OCEANSIDE HARBOR MANAGER REGARDING CONTRACTOR'S PARKING AREA AND TRAILER STORAGE AREA

OCEANSIDE CHANNEL		
E1	6,209,179.90	2,020,821.90
E9	6,209,828.81	2,021,049.59
H1	6,209,944.70	2,021,096.00
H2	6,210,117.30	2,021,019.70
H3	6,210,149.70	2,020,936.10
H4	6,210,904.70	2,021,238.60
H5	6,211,358.68	2,021,081.21
H6	6,211,077.20	2,021,486.90
H7	6,210,742.40	2,021,496.80
H8	6,210,222.90	2,021,288.60
H9	6,210,077.50	2,021,327.70
H10	6,209,991.20	2,021,437.90
D6	6,209,393.30	2,021,198.30

U.S. ARMY CORPS OF ENGINEERS	
LOS ANGELES DISTRICT	
LOS ANGELES, CALIFORNIA	
C.HAYWARD	JANUARY 2022
DRAWN BY:	SOLICITATION NO.:
C.HAYWARD	W912PL-22-R-0008
CHECKED BY:	CONTRACT NO.:
J.RYAN	
SUBMITTED BY:	FILE NAME
OLUFUNKE A. OJURI, P.E.	C-0155
SIZE:	CAD FILE
ANSID	112812 CN101.dgn

**SAN DIEGO COUNTY, CALIFORNIA
OCEANSIDE HARBOR
MAINTENANCE DREDGING**

**DREDGING PLAN AND
SURVEY CONTROL**

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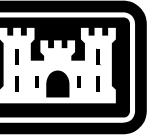
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Version 1.0 | M/W/F 10/2022

✓ DBTALO_pumpkey DBTALO_Screen_.ansclescript

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SHEET ID
CN101

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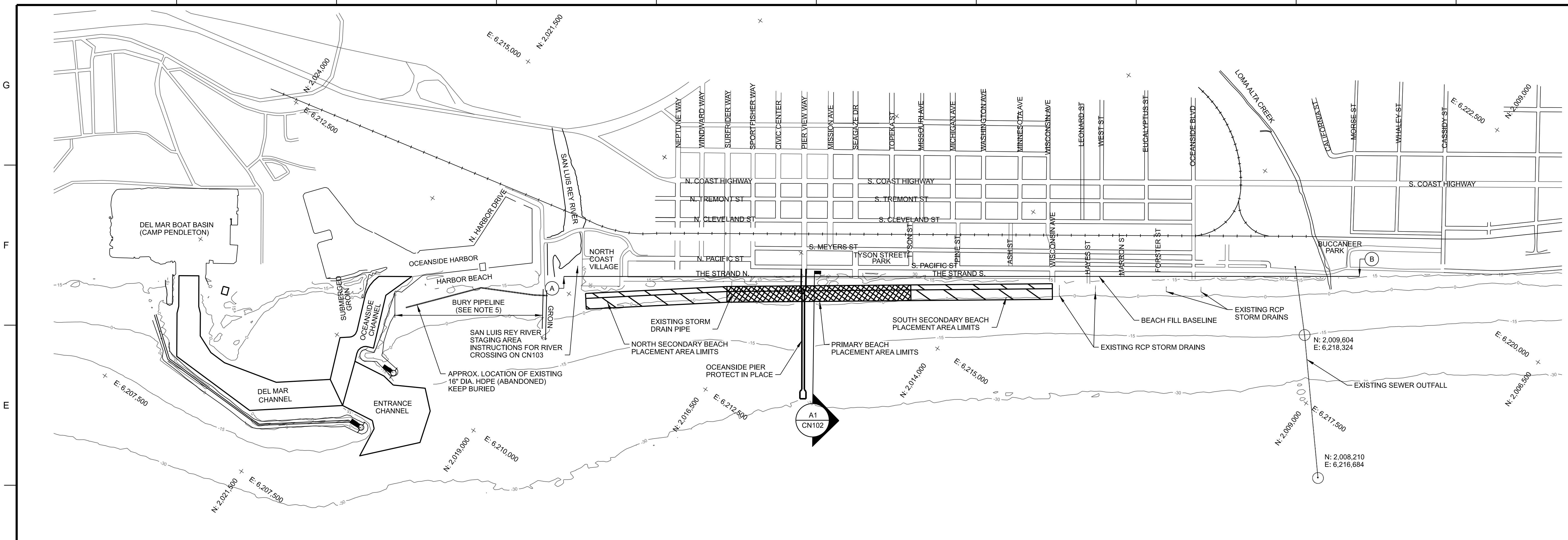
DATE
MARK
DESCRIPTION

DESIGNED BY: C.HAYWARD	ISSUE DATE: JANUARY 2022
DRAWN BY: C.HAYWARD	SOLICITATION NO.: W912PL-22-R-0008
CHECKED BY: J.RYAN	CONTRACT NO.:
SUBMITTED BY: OLUFUNKA OJURI P.E.	FILE NAME: C-0156
SIZE: CAD FILE	ANSI: 112812_CN102.dwg

PLAN NORTH
TRUEVUE

SAN DIEGO COUNTY, CALIFORNIA
OCEANSIDE HARBOR
MAINTENANCE DREDGING
BEACH PLACEMENT AREA
PLAN AND CROSS-SECTION

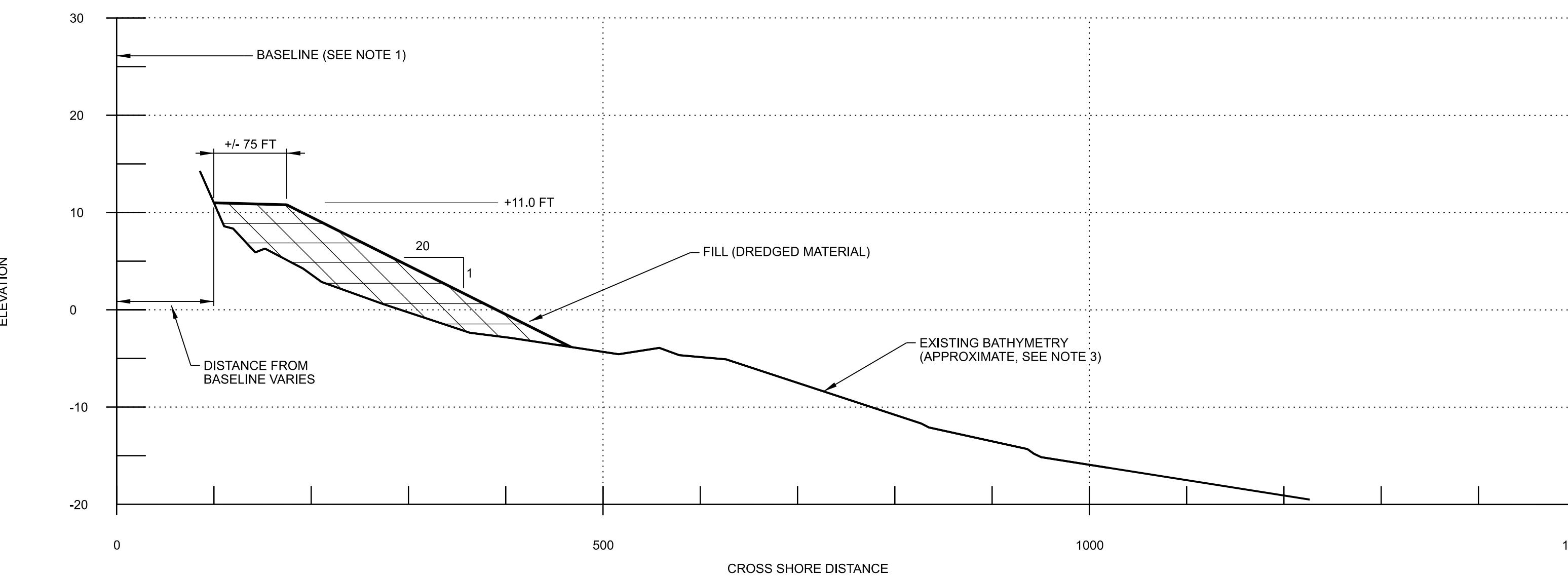
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D1 DRAWING AREA TITLE

SCALE: 1" = 800'

0 800' 1600'

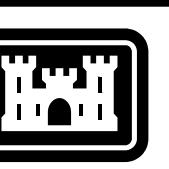


A1 TYPICAL SECTION - BEACH PLACEMENT AREAS

GENERAL SHEET NOTES

1. BASELINE COORDINATES ARE:
 - Ⓐ E: 6,212,668.89, N: 2,019,211.87
 - Ⓑ E: 6,219,516.56, N: 2,009,433.38
2. EXISTING STORM DRAIN OUTLETS MUST NOT BE OBSTRUCTED. LOCATIONS AND INVERT ELEVATIONS ARE AS FOLLOWS:

18' RCP AT SURF RIDER WAY	I.E. = 4.62 FT
48' RCP AT WISCONSIN AVE	I.E. = 7.94 FT
36' RCP AT HAYES ST	I.E. = 8.98 FT
18' RCP AT FORSTER ST	I.E. = 8.10 FT
3. NEARSHORE BATHYMETRY IS APPROXIMATE BASED ON SITE CONDITIONS IN NOVEMBER, 2015.
4. PLACEMENT AREA LIMITS SHOWN ARE APPROXIMATE. EXACT PLACEMENT LOCATIONS MUST BE COORDINATED WITH THE CONTRACTING OFFICER.
5. BURY THE DISCHARGE PIPELINE WHERE IT TRAVERSES HARBOR BEACH.

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DATE

SHEET NOTES

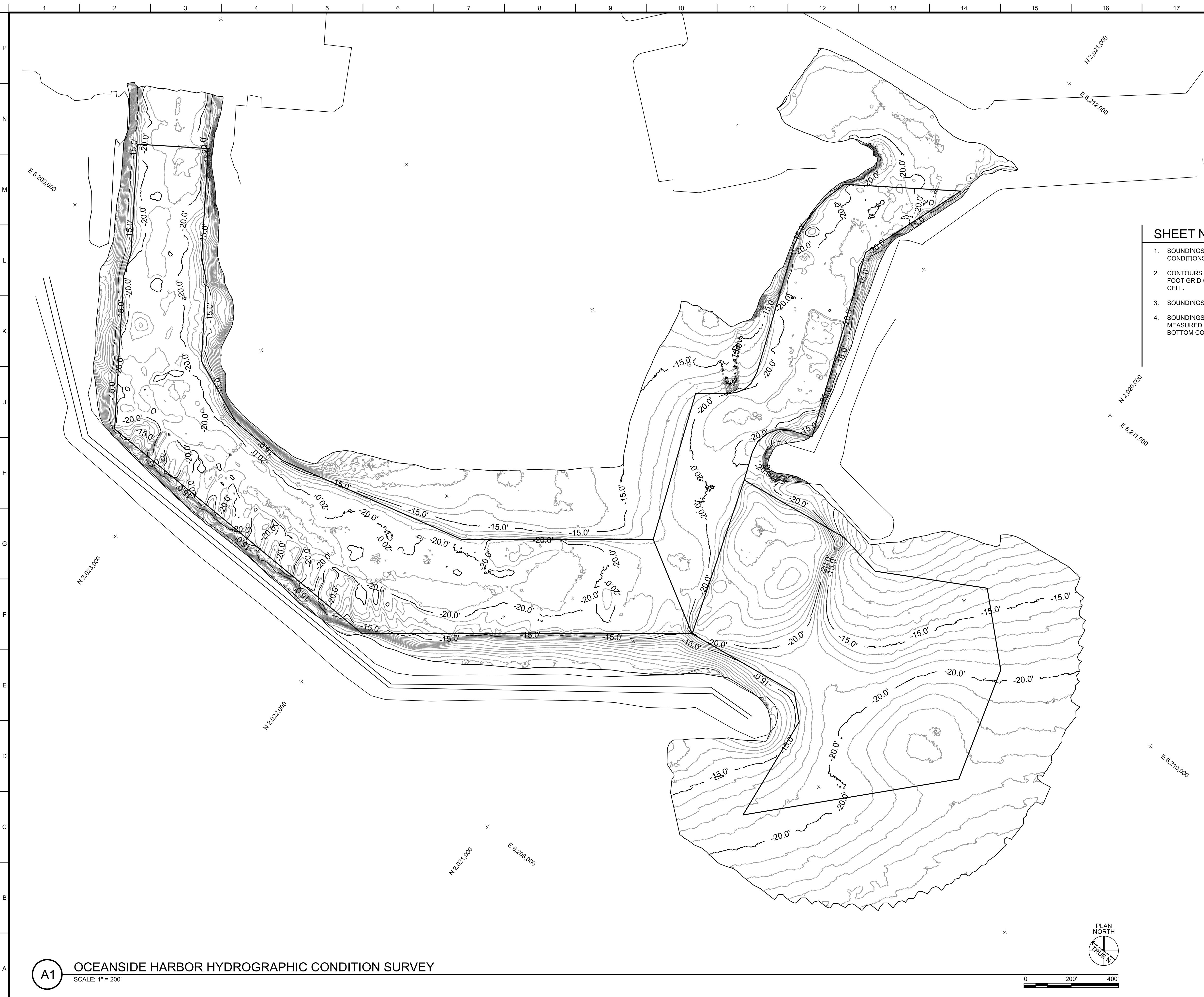
1. SOUNDINGS AND ELEVATIONS, IN U.S. SURVEY FEET, INDICATE THE GENERAL CONDITIONS EXISTING ONLY AT TIME OF SURVEY, NOVEMBER 15-17, 2021.
2. CONTOURS ARE BASED ON THE AVERAGE DEPTH OF SOUNDINGS WITHIN A 3 FOOT GRID CELL AND ARE GIVEN THE COORDINATES IN THE CENTER OF THAT CELL.
3. SOUNDINGS AND ELEVATIONS ARE SHOWN TO THE NEAREST 0.1 FOOT.
4. SOUNDINGS LOCATED BY POST-PROCESSED KINEMATIC GPS. DEPTHS MEASURED USING A MULTI-BEAM ECHO SOUNDER PROVIDING NEAR FULL BOTTOM COVERAGE.

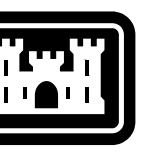
U.S. ARMY CORPS OF ENGINEERS 915 WILSHIRE BLVD. LOS ANGELES DISTRICT LOS ANGELES, CALIFORNIA 90017	DESIGNED BY: C.HAYWARD DRAWN BY: C.HAYWARD SOLICITATION NO.: W912PL-22R-0008 CONTRACT NO.: J.RYANED SUBMITTED BY: OLUFUNKA OJURI P.E. C-0158 SIZE: ANSI D 112812 CN104.dwg	ISSUE DATE: JANUARY 2022 CHECKED BY: J.RYANED MARK
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SAN DIEGO COUNTY, CALIFORNIA OCEANSIDE HARBOR MAINTENANCE DREDGING	HYDROGRAPHIC CONDITION SURVEY
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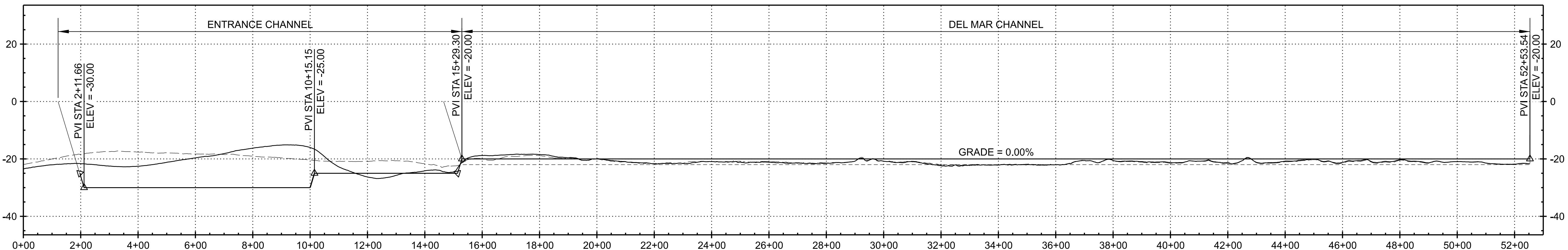
SHEET ID

CN104



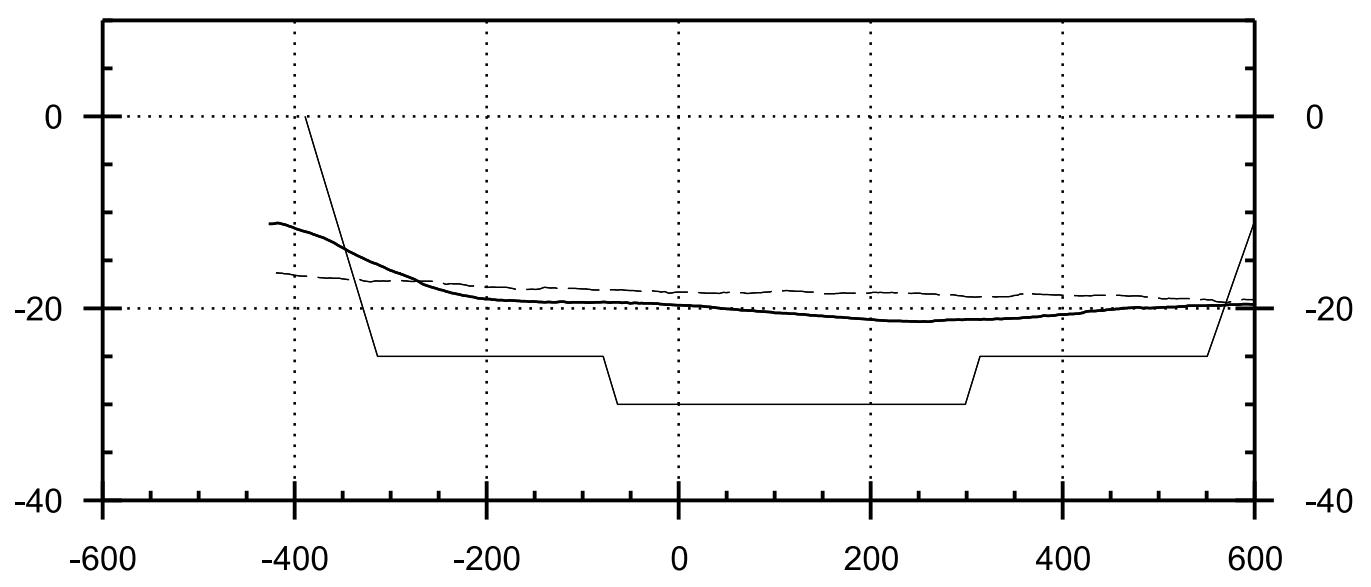
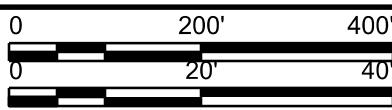
US Army Corps
of Engineers®

DATE



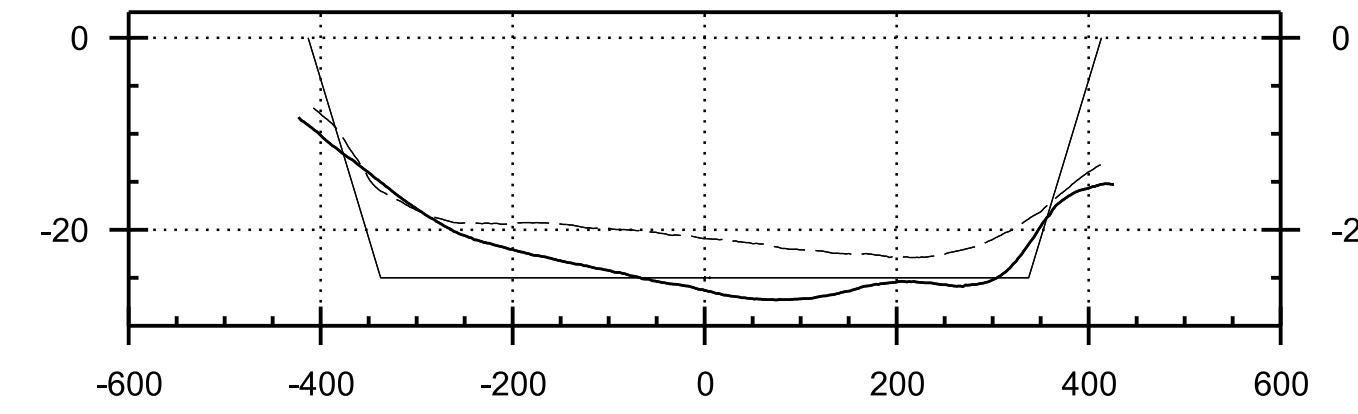
K1 PROFILE: ENTRANCE CHANNEL AND DEL MAR CHANNEL

SCALE: HORIZ. 1" = 200', VERT. 1" = 20'

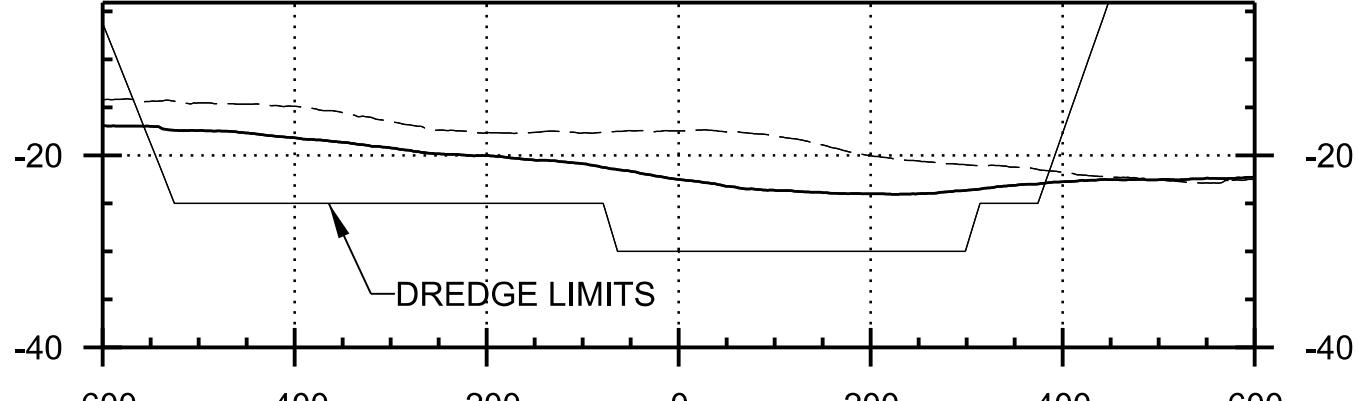


F1 ENTRANCE CHANNEL STA. 6+00

SCALE: HORIZ. 1" = 200', VERT. 1" = 20'

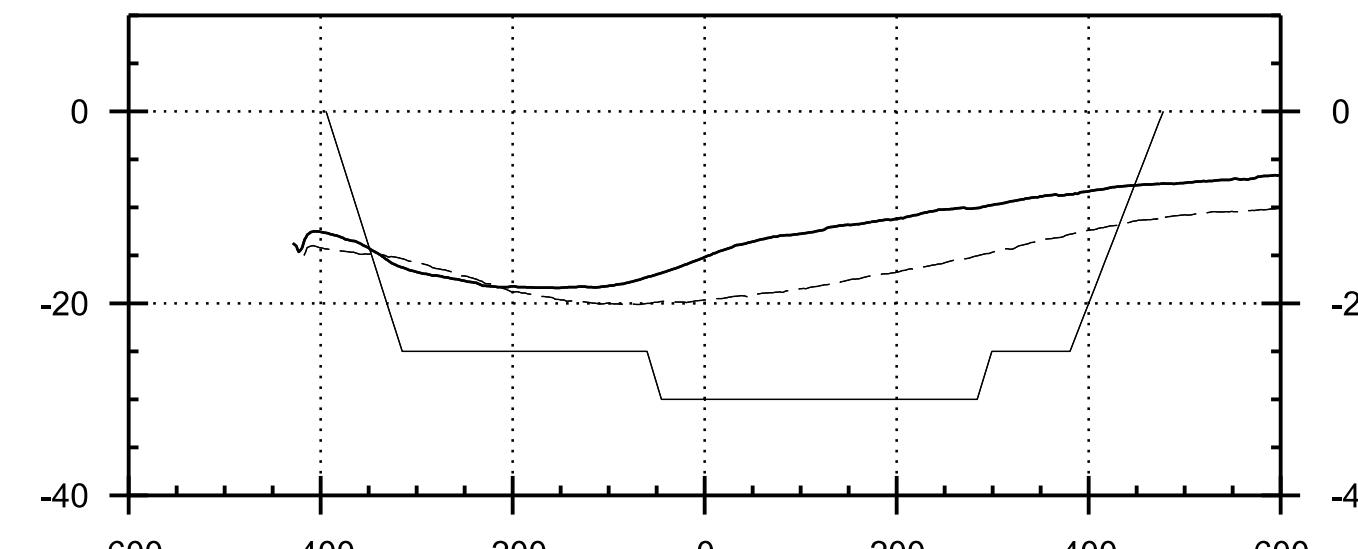


F7 ENTRANCE CHANNEL STA. 12+00



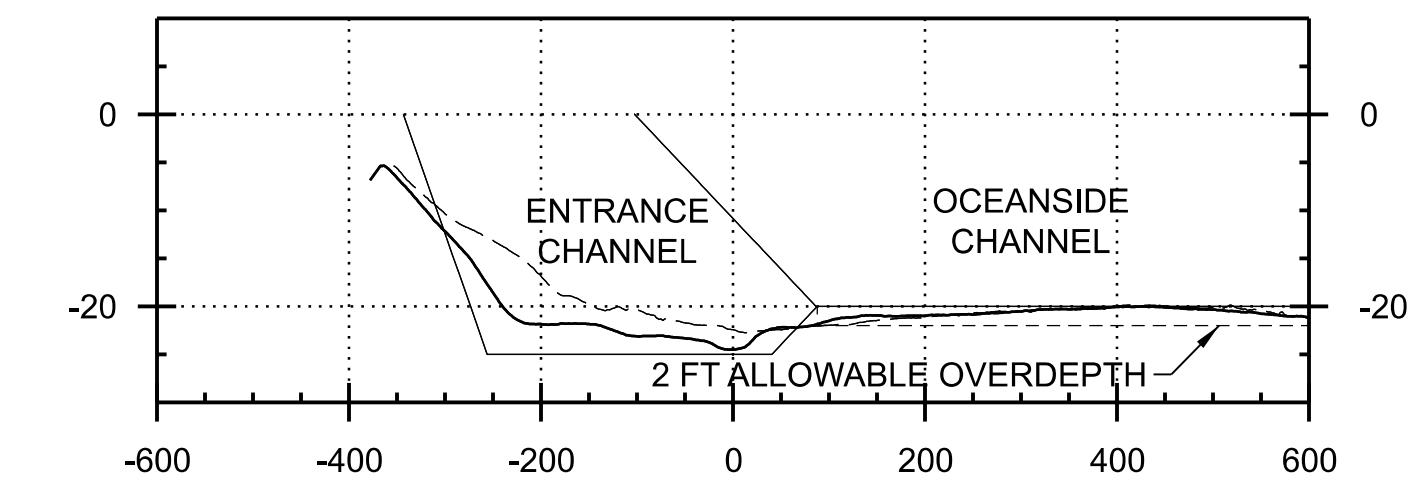
C1 ENTRANCE CHANNEL STA. 3+00

SCALE: HORIZ. 1" = 200', VERT. 1" = 20'



C7 ENTRANCE CHANNEL STA. 9+00

SCALE: HORIZ. 1" = 200', VERT. 1" = 20'



C13 ENTRANCE CHANNEL STA. 15+00

SCALE: HORIZ. 1" = 200', VERT. 1" = 20'

LEGEND

NOVEMBER 2021 CONDITION SURVEY

APRIL 2021 PRE-DREDGE SURVEY

SHEET NOTES

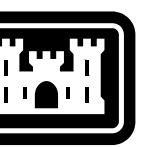
1. ALL PAY SLOPES ARE 1 VERTICAL TO 3 HORIZONTAL UNLESS INDICATED OTHERWISE.
2. ALL CROSS-SECTIONS ARE SHOWN IN THE DIRECTION OF INCREASING STATION.
3. SEE SPECIFICATIONS, SECTION 35 20 23 FOR REQUIREMENTS REGARDING ADVANCE MAINTENANCE DREDGING.

SHEET ID

CN301

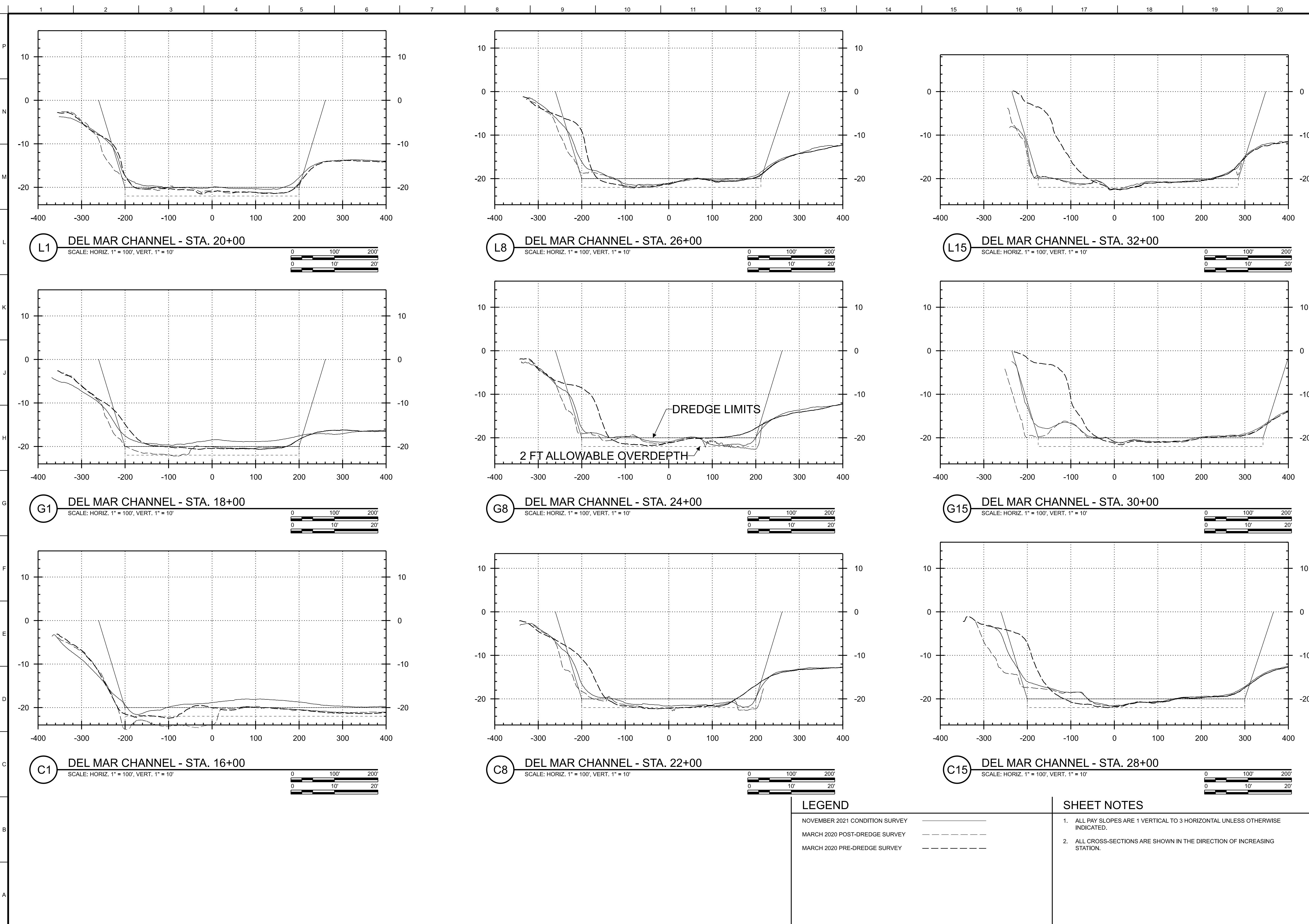
U.S. ARMY CORPS OF ENGINEERS 915 WILSHIRE BLVD. LOS ANGELES DISTRICT LOS ANGELES, CALIFORNIA 90017	DESIGNED BY: C.HAYWARD	ISSUE DATE: JANUARY 2022
	DRAWN BY: C.HAYWARD	SOLICITATION NO.: W912PL-22-R-0008
	CHECKED BY: J.RYANED	CONTRACT NO.: C1059
	SUBMITTED BY: OLUFUNKE OJURI P.E. C1059	DISTRICT FILE NUMBER SIZE: CADFILE ANSID: 112912 CN301.dwg

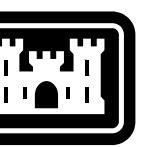
SAN DIEGO COUNTY, CALIFORNIA OCEANSIDE HARBOUR MAINTENANCE DREDGING	ENTRANCE CHANNEL AND DEL MAR CHANNEL PROFILE AND CROSS SECTIONS STATION 3+00 TO 15+00
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US Army Corps
of Engineers®

DATE

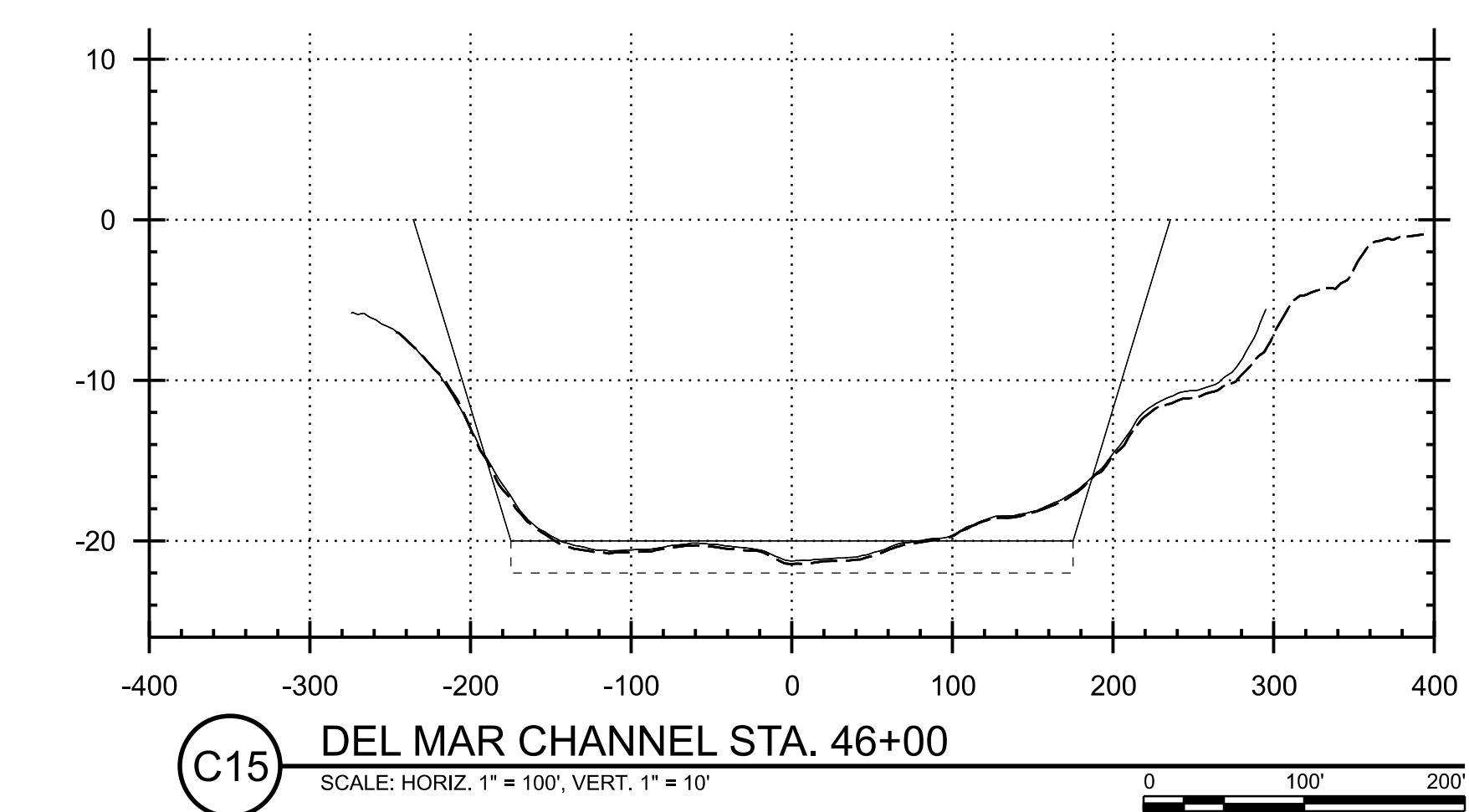
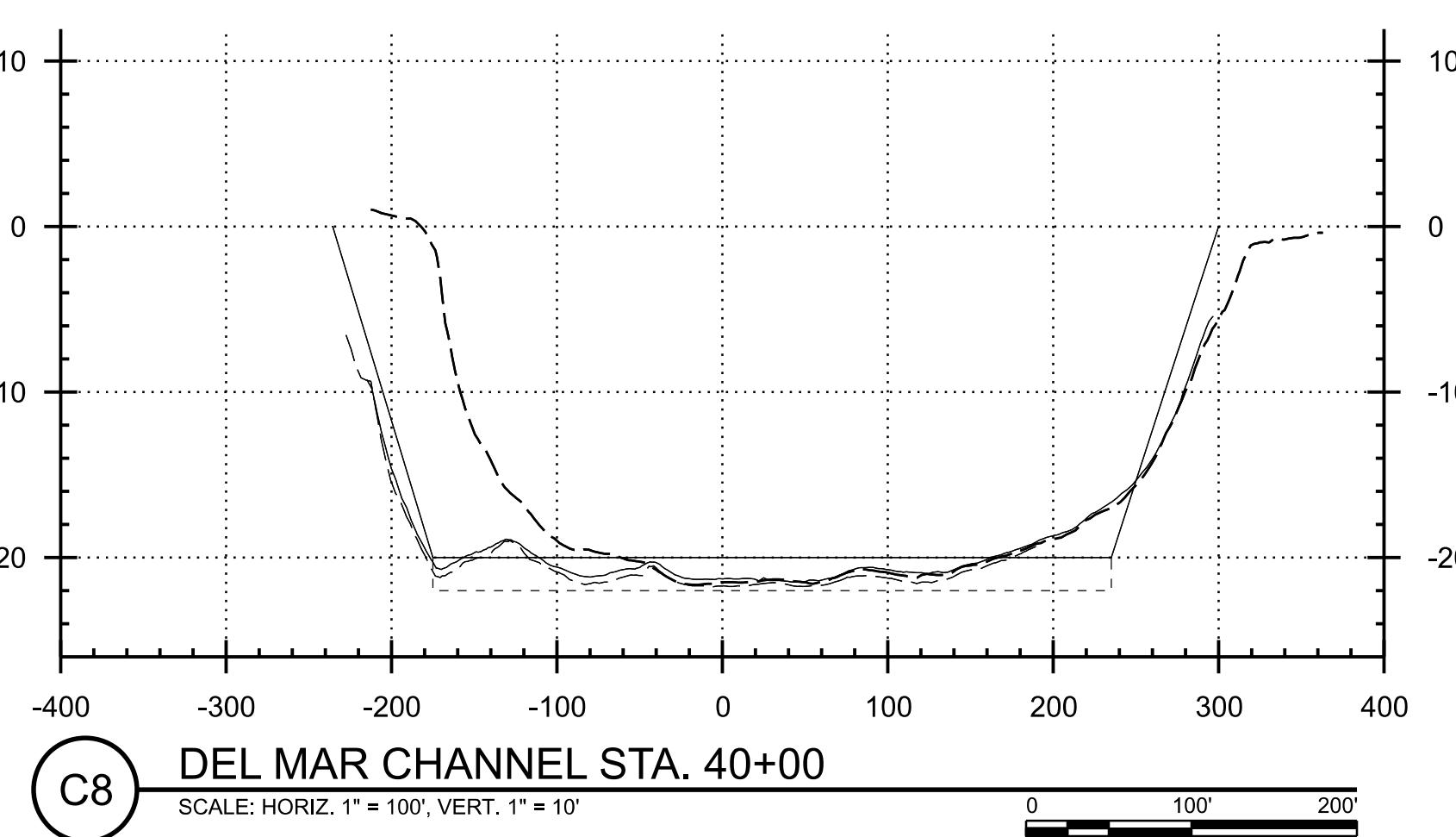
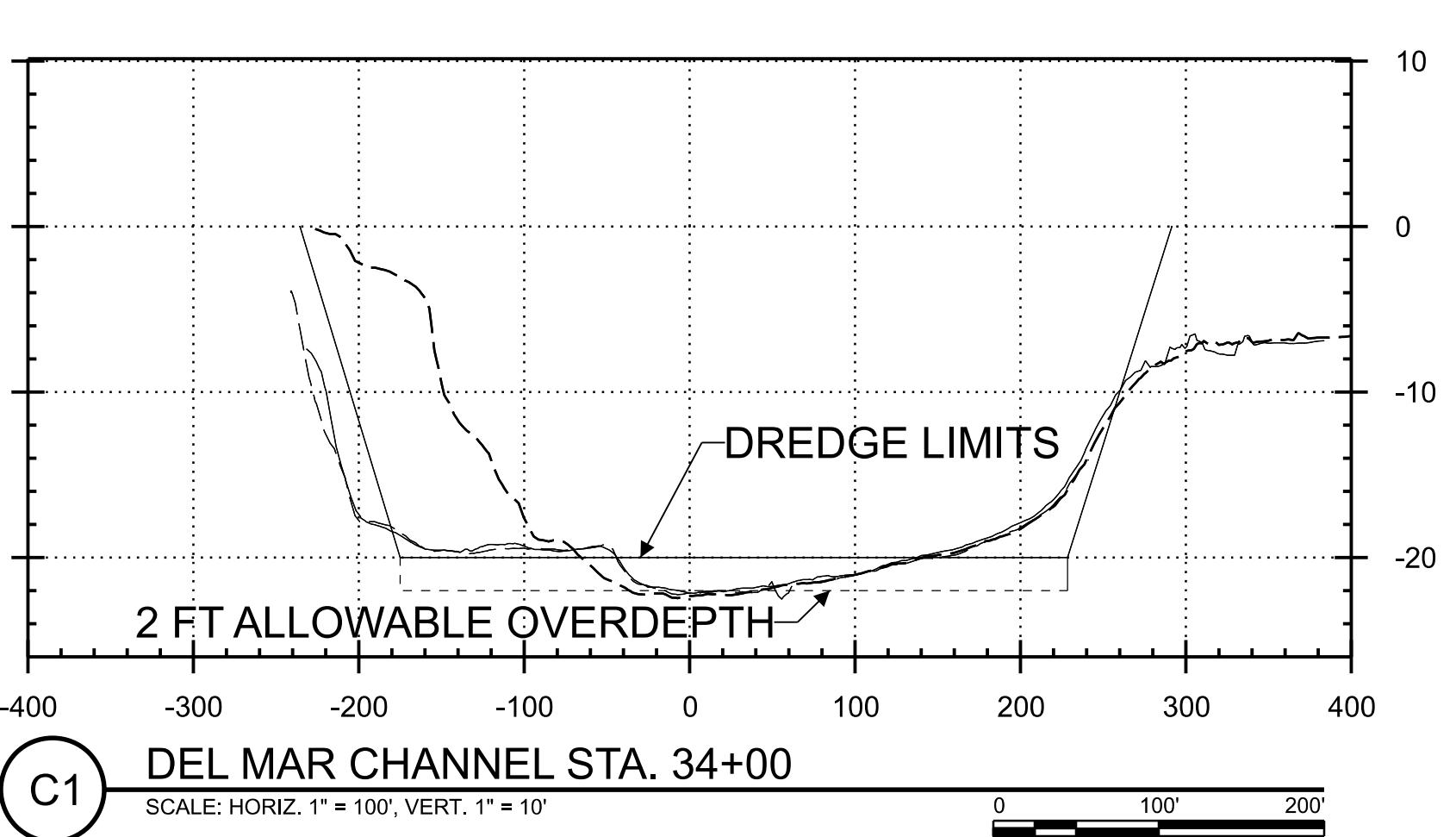
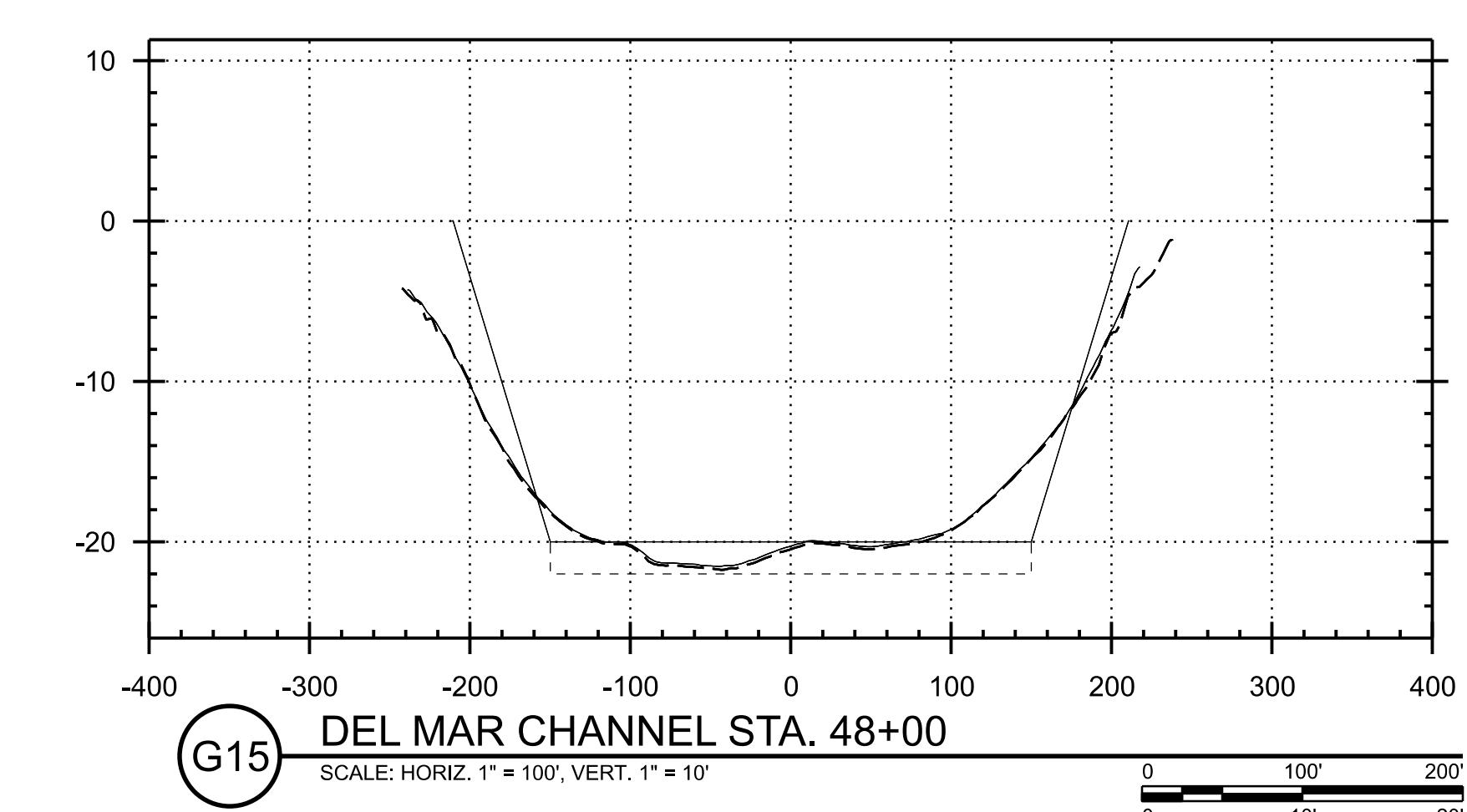
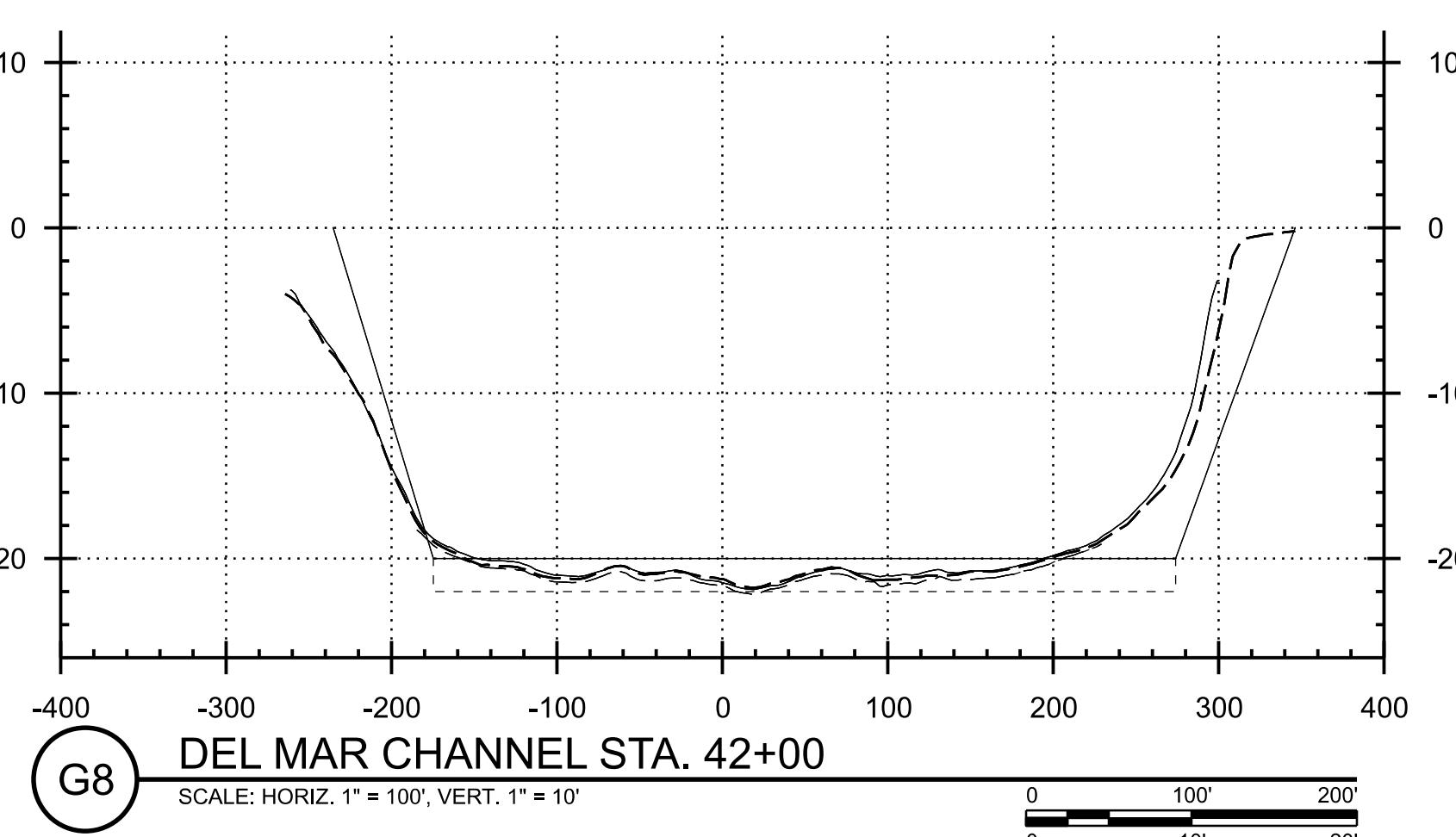
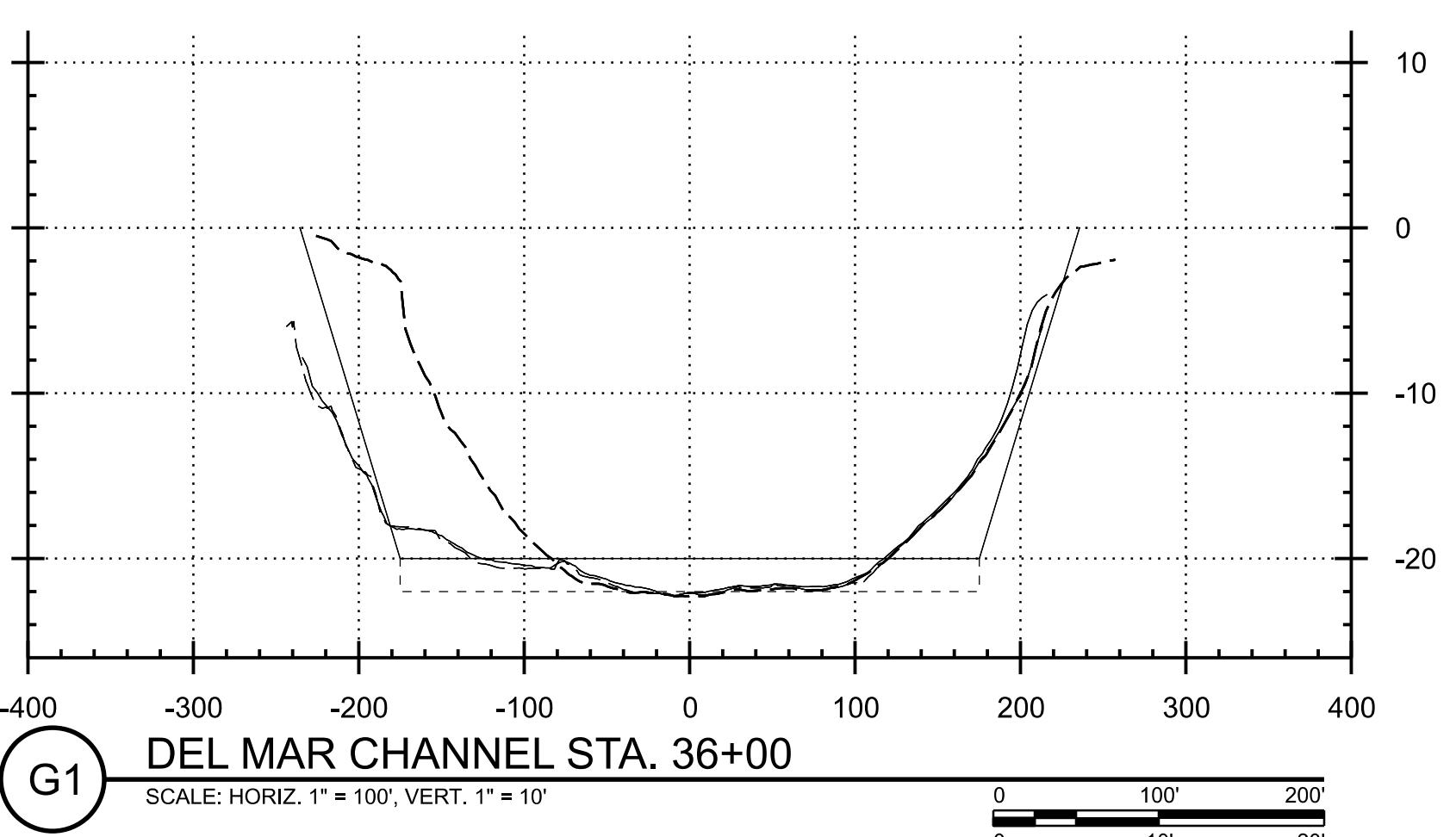
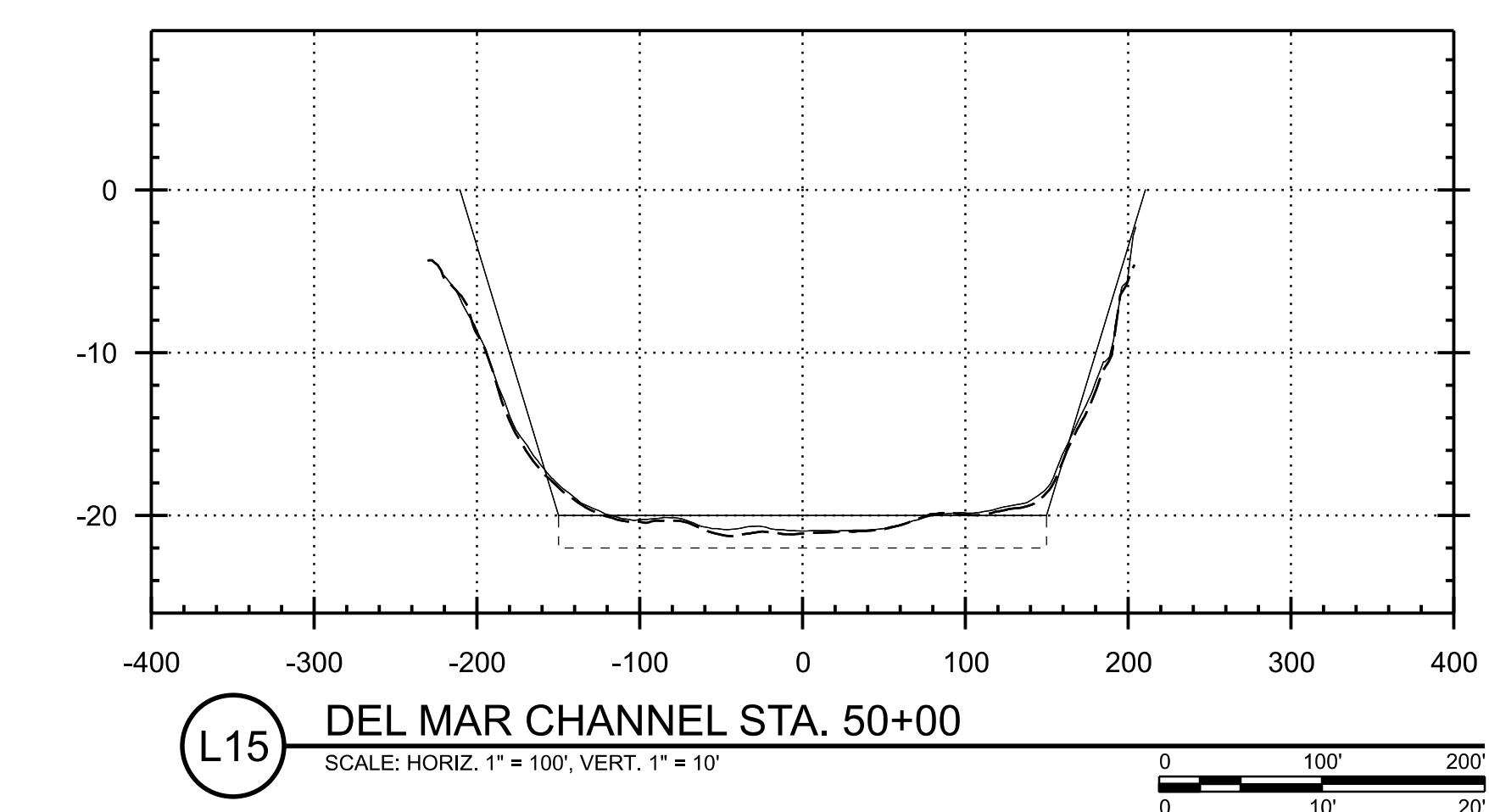
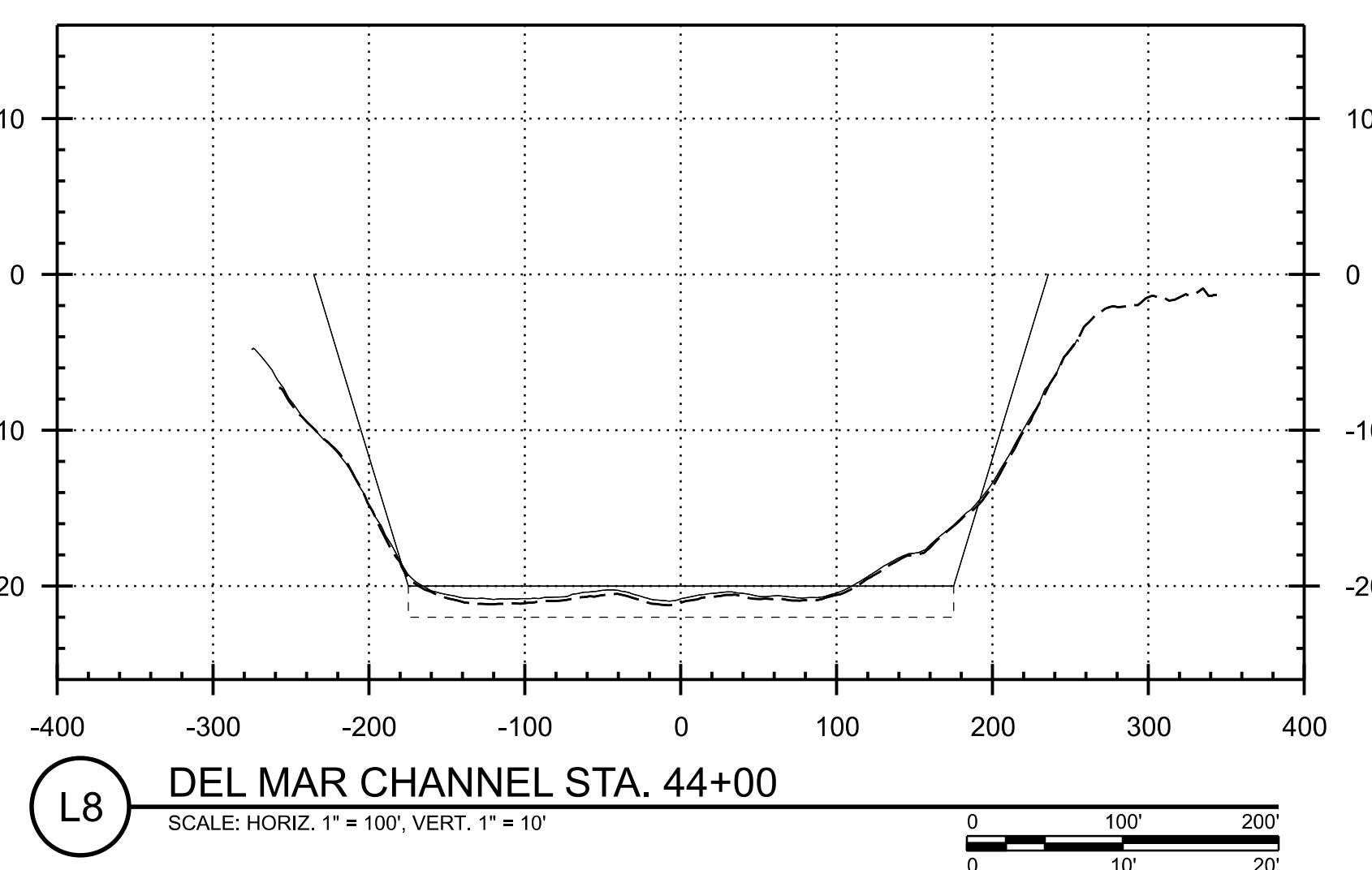
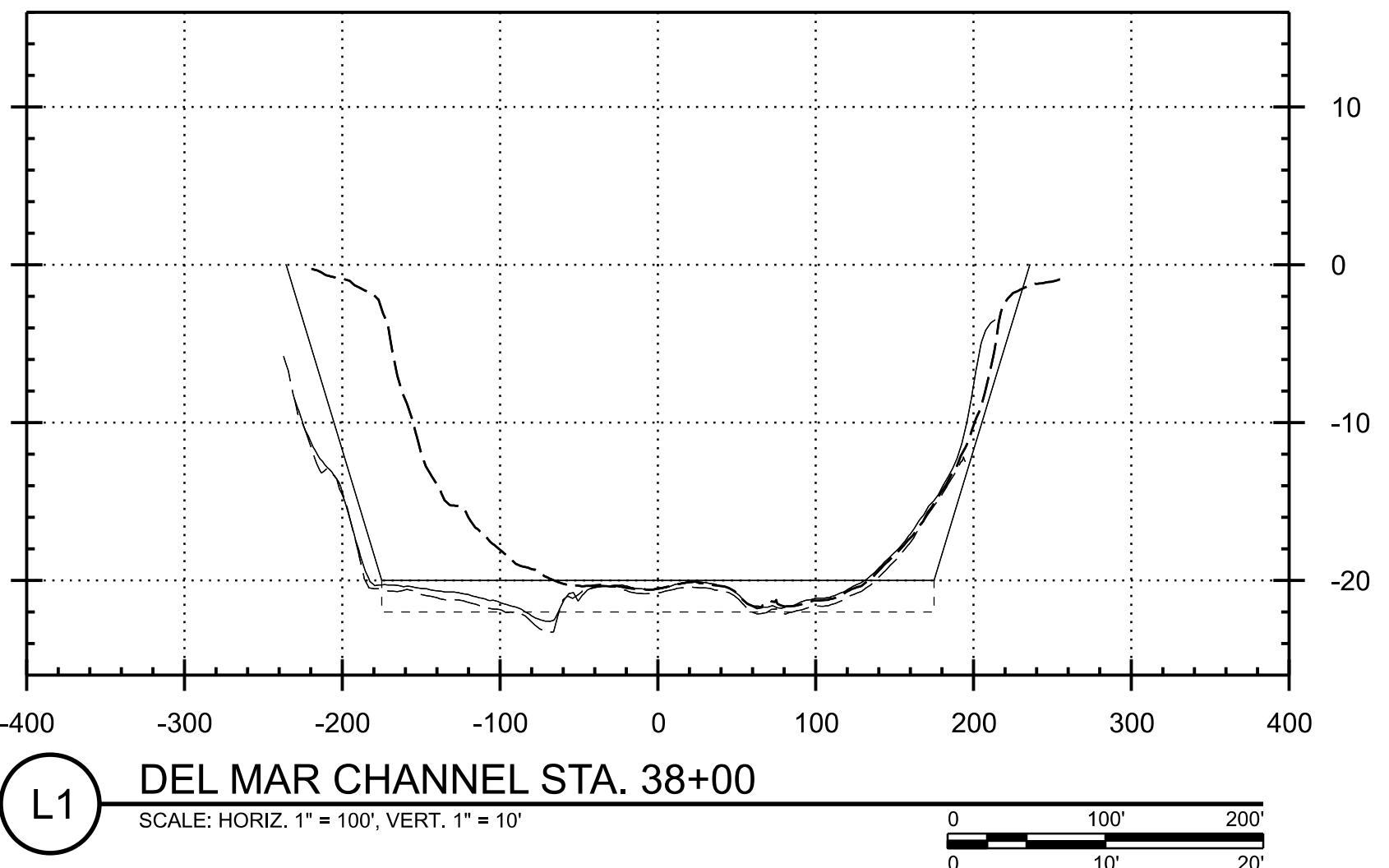
DATE



US Army Corps
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DATE

DATE



LEGEND

NOVEMBER 2021 CONDITION SURVEY
MARCH 2020 POST-DREDGE SURVEY
MARCH 2020 PRE-DREDGE SURVEY

SHEET NOTES

1. ALL PAY SLOPES ARE 1 VERTICAL TO 3 HORIZONTAL UNLESS INDICATED OTHERWISE.
2. ALL CROSS-SECTIONS ARE SHOWN IN THE DIRECTION OF INCREASING STATION.

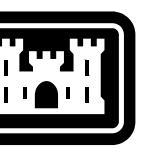
SHEET ID

CN303

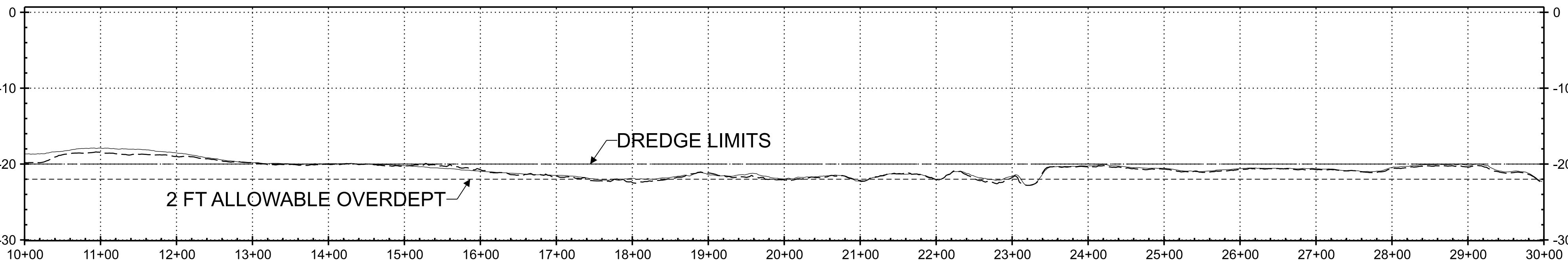
SAN DIEGO COUNTY, CALIFORNIA
OCEANSIDE HARBOR
MAINTENANCE DREDGING
STATION 34+00 TO 50+00

U.S. ARMY CORPS OF ENGINEERS
915 WILSHIRE BLVD.
LOS ANGELES DISTRICT
LOS ANGELES, CALIFORNIA 90017

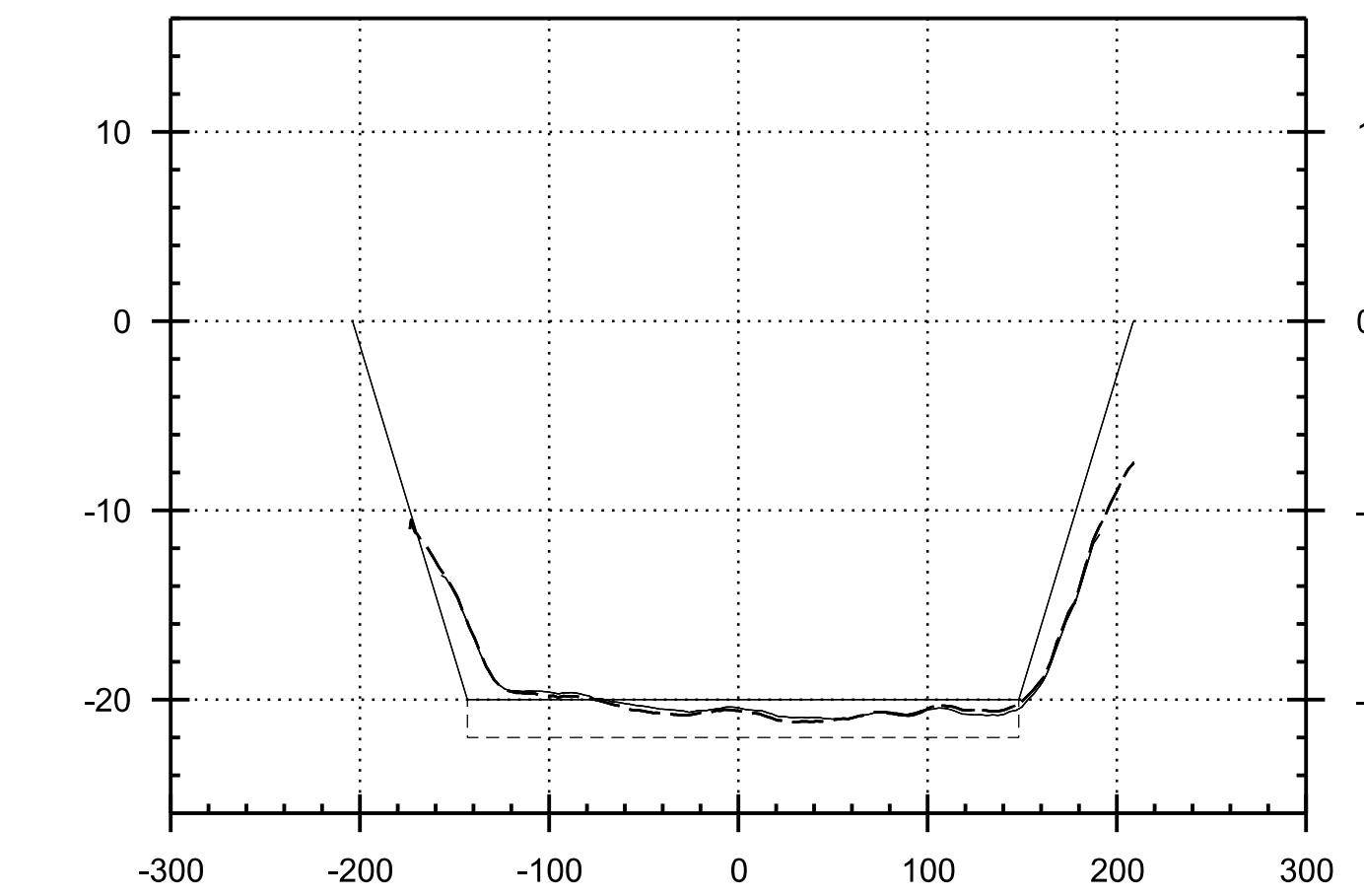
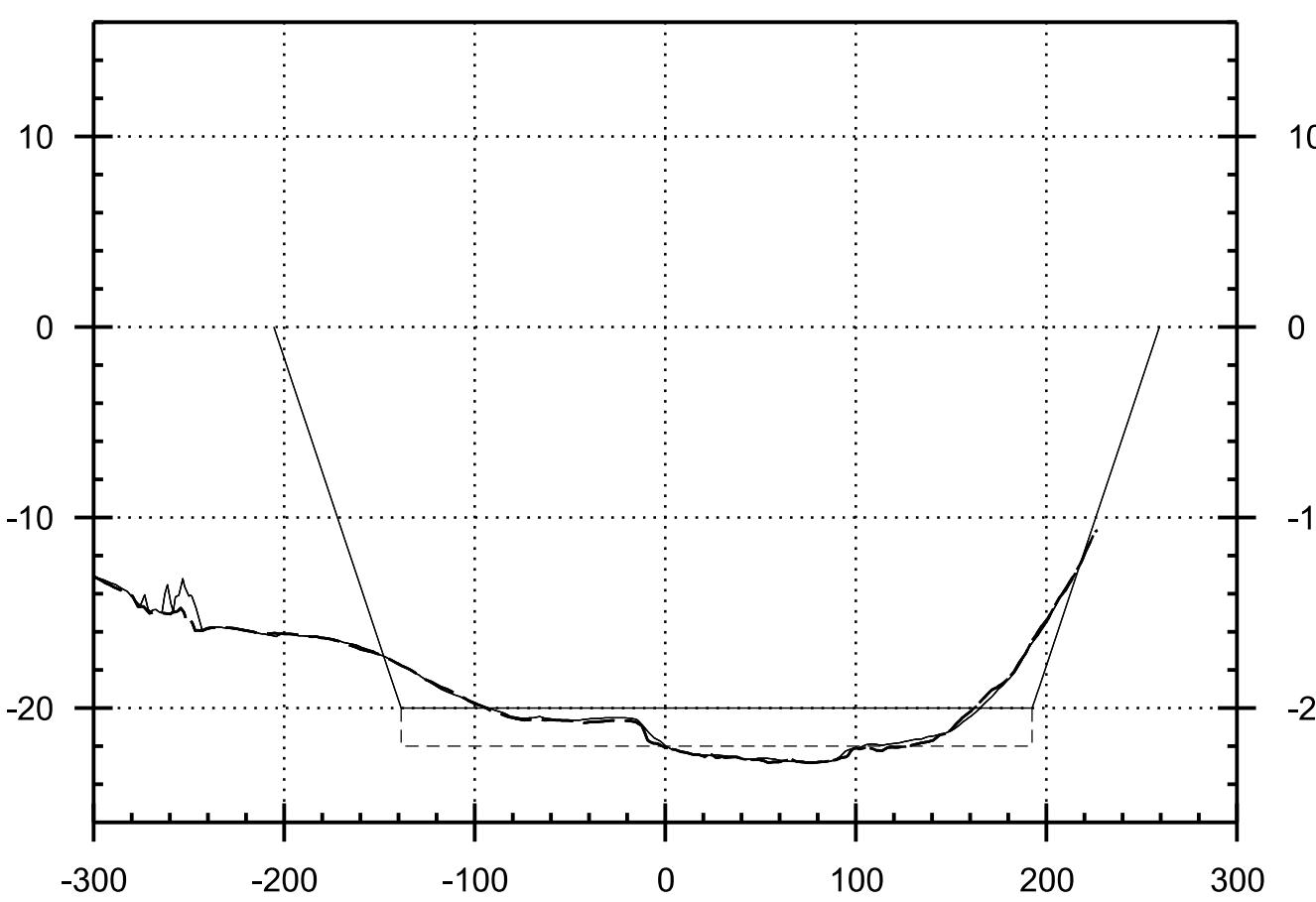
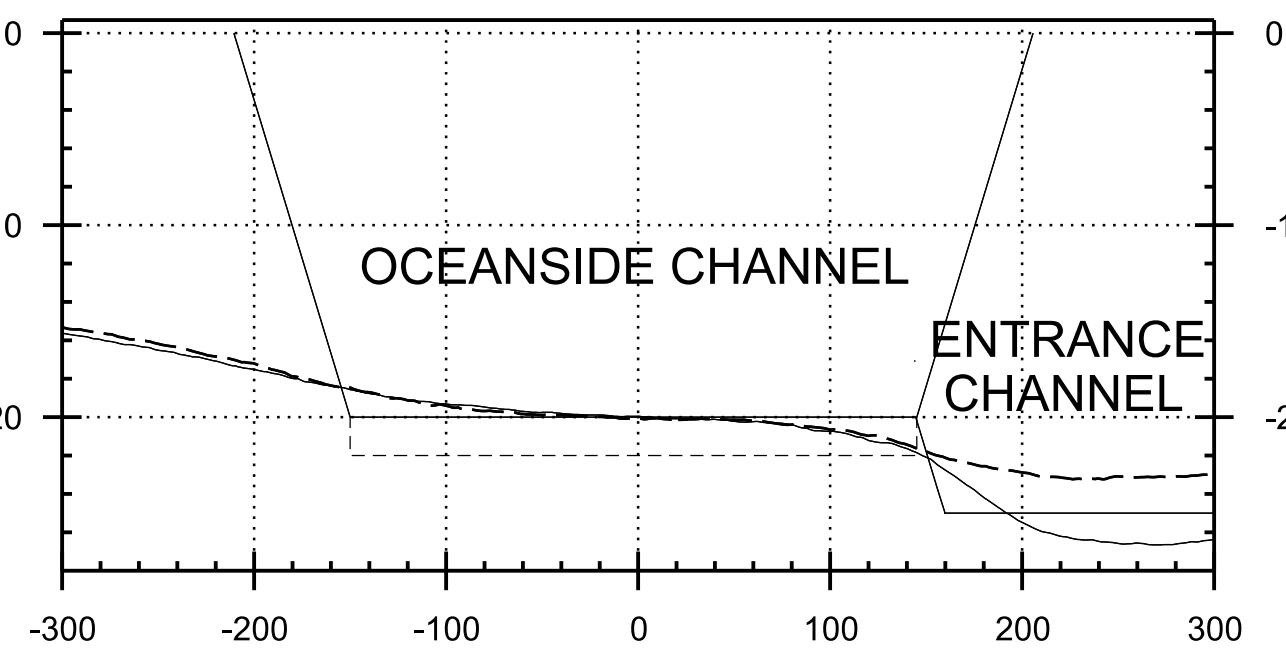
ISSUE DATE: JANUARY 2022
SOLICITATION NO: W912PL-22-R-0008
DRAWN BY: C.HAYWARD
CHECKED BY:
J.RYANED BY: OLFUNKA, QOURI P.E. C-0161
SUBMITTED BY: CADFILE
SIZE: 112x12 CN303.dwg
ANSID: 112x12 CN303.dwg

US Army Corps
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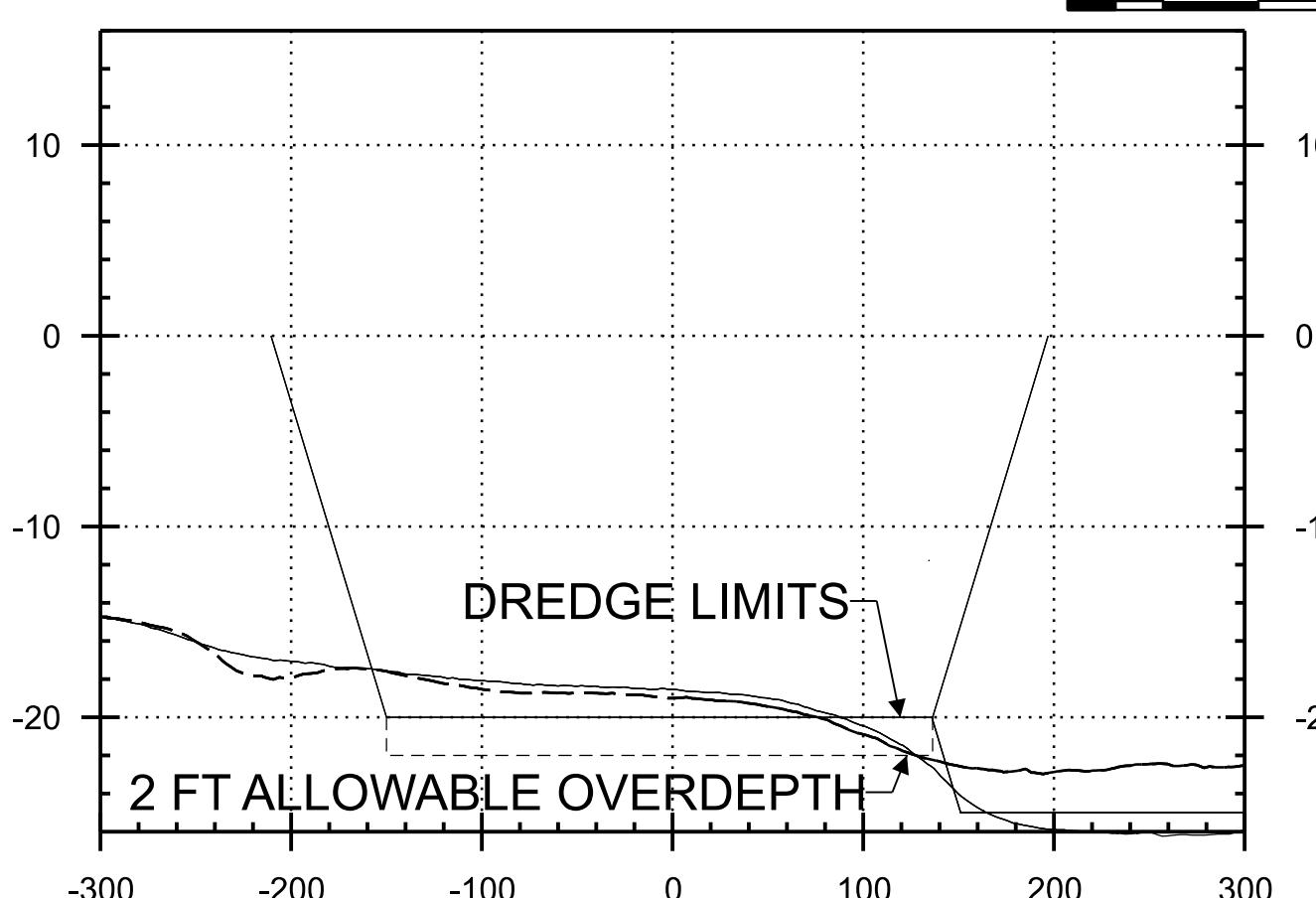
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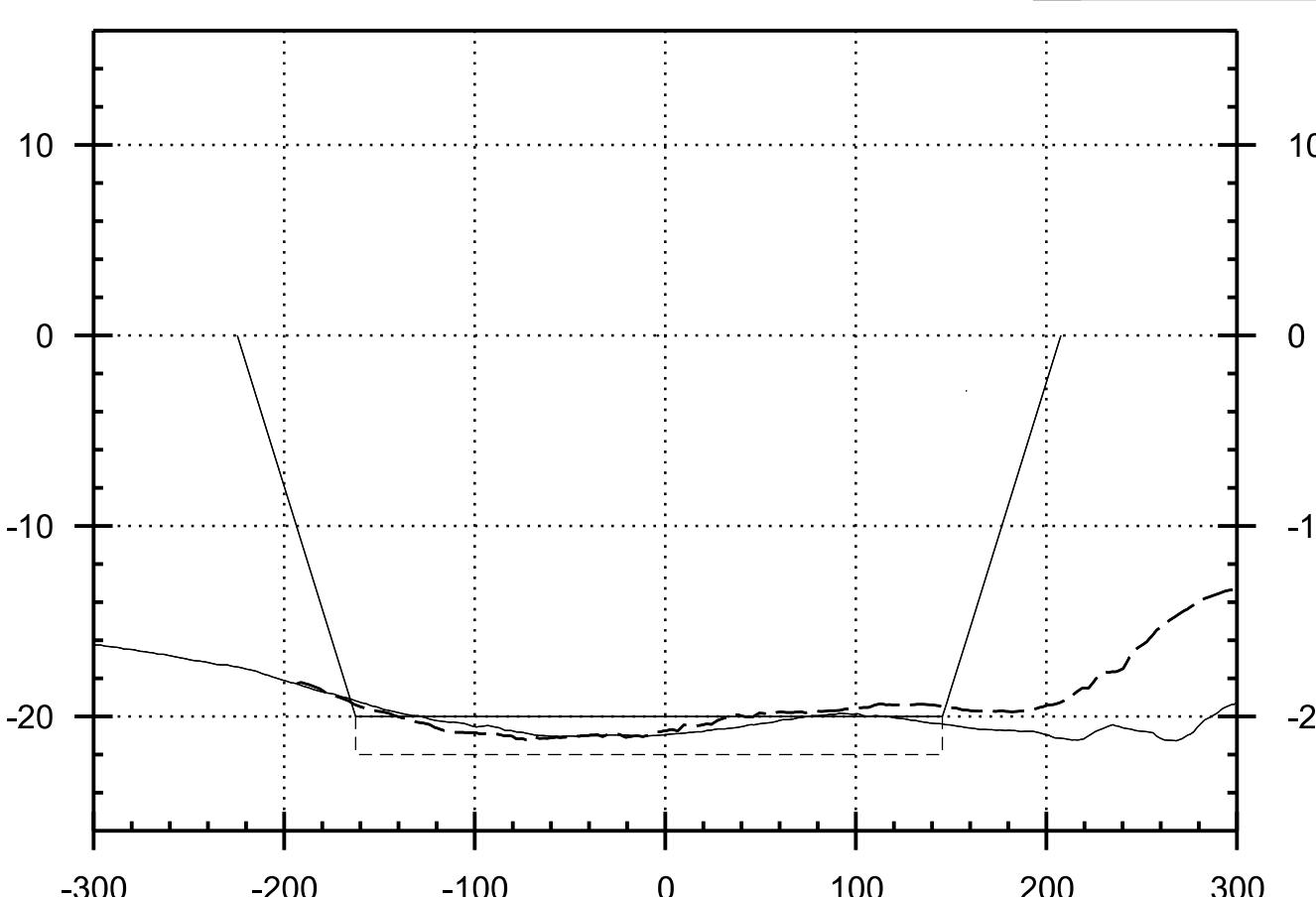
L1 OCEANSIDE CHANNEL PROFILE



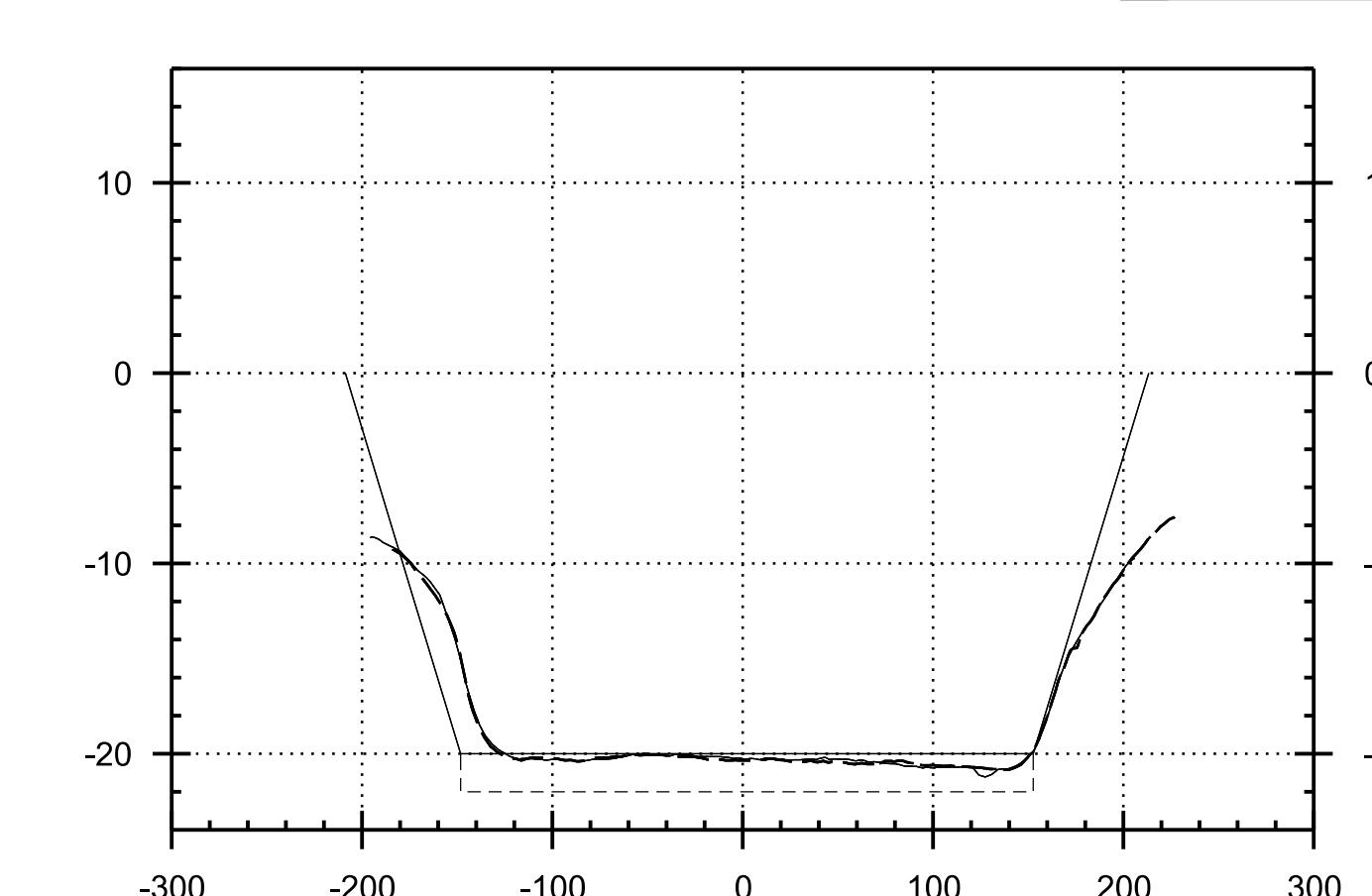
G1 OCEANSIDE CHANNEL 14+00



G7 OCEANSIDE CHANNEL 20+00



G13 OCEANSIDE CHANNEL 28+00



C1 OCEANSIDE CHANNEL 12+00



C7 OCEANSIDE CHANNEL 16+00

C13 OCEANSIDE CHANNEL 24+00



LEGEND

NOVEMBER 2021 CONDITION SURVEY

APRIL 2021 PRE-DREDGE SURVEY

SHEET NOTES

- ALL PAY SLOPES ARE 1 VERTICAL TO 3 HORIZONTAL UNLESS OTHERWISE INDICATED.
- ALL CROSS-SECTIONS ARE SHOWN IN THE DIRECTION OF INCREASING STATION.

U.S. ARMY CORPS OF ENGINEERS	ISSUE DATE:
915 WILSHIRE BLVD	JANUARY 2022
LOS ANGELES DISTRICT	SOLICITATION NO.:
LOS ANGELES, CALIFORNIA 90017	W912PL-22-R-0008
	CONTRACT NO.:
	C.HAYWARD
	CHECKED BY:
	J.RYANED
	SUBMITTED BY:
	OLUFUNKE A. OJURI P.E. C-0162
	DISTRICT FILE NUMBER
	CADFILE
	SIZE: 112x12 CN304.dwg
	ANSID:

SAN DIEGO COUNTY, CALIFORNIA	OCEANSIDE HARBOR
Maintenance dredging	
OCEANSIDE CHANNEL	
PROFILE AND CROSS SECTIONS	
STATION 12+00 TO 28+00	

SHEET ID

CN304