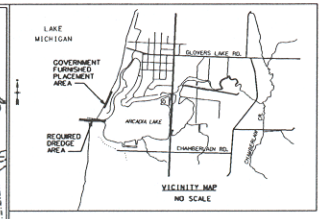
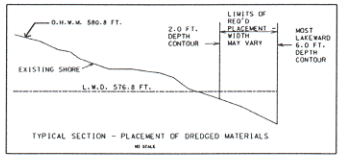
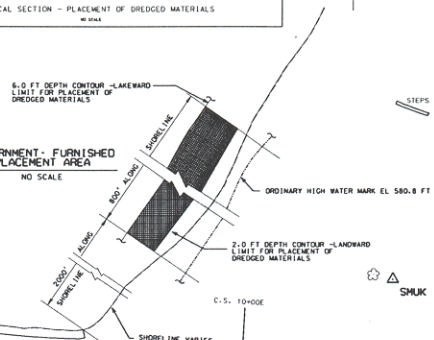


NOTES:

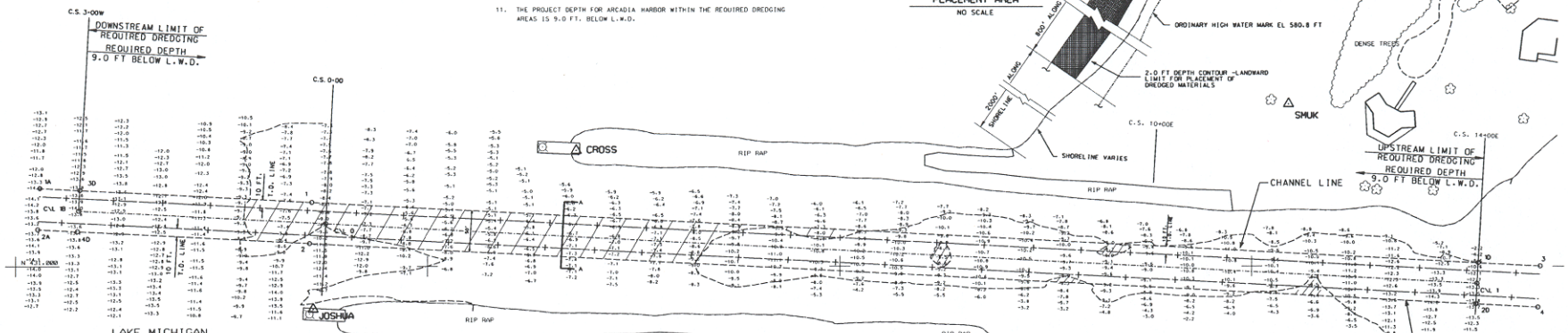
1. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF AN AUTOMATED HYDROGRAPHIC SURVEY MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
2. SURVEY MADE BY: GRAND HAVEN AREA OFFICE, 20 APRIL 2004
3. DREDGING WORK UNDER THIS CONTRACT FOR THE CONDITION SHOWN IS MARKED REQUIRED.
4. ALL DEPTHS AND SOUNDINGS ARE REFERRED TO LOW WATER DATUM (L.W.D.) FOR LAKE MICHIGAN, ELEVATION 576.8 FT. ABOVE MEAN WATER LEVEL AT FATHER POINT, QUEBEC (I.G.L.D. 1955). SOUNDINGS ARE SHOWN AS THUS: -8.4
5. ELEVATIONS ARE REFERRED TO MEAN WATER LEVEL AT FATHER POINT, QUEBEC (I.G.L.D. 1955)
6. REFER TO THE SPECIFICATIONS FOR DETAILED DESCRIPTIONS OF BENCH MARKS AND HORIZONTAL CONTROL POINTS.
7. THE GRID SYSTEM AND COORDINATE DATA SHOWN ARE BASED ON THE LAMBERT PROJECTION, MICHIGAN STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, 1983 NORTH AMERICAN DATUM.
8. ALL AZIMUTHS ARE REFERENCED TO GRID NORTH.
9. THE CONTRACTOR SHALL VERIFY THE LOCATION OF AUTHORIZED CROSSINGS IN ACCORDANCE WITH THE SPECIFICATIONS.
10. REFER TO SECTION 02482 OF THE SPECIFICATIONS FOR INFORMATION REGARDING REQUIREMENTS FOR PLACEMENT OF DREDGED MATERIALS IN THE GOVERNMENT FURNISHED NOURISHMENT AREA.
11. THE PROJECT DEPTH FOR ARCADIA HARBOR WITHIN THE REQUIRED DREDGING AREAS IS 9.0 FT. BELOW L.W.D.



TYPICAL SECTION - PLACEMENT OF DREDGED MATERIALS
NO SCALE

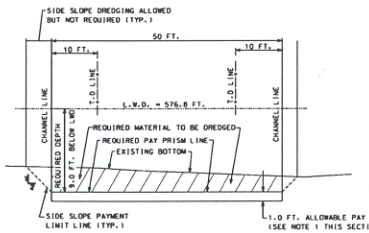


GOVERNMENT- FURNISHED PLACEMENT AREA
NO SCALE



DREDGE PLAN

50 25 0 50 100FT
SCALE: 1"= 50'



SECTION A-A

HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=5'

NOTES:

1. THE ALLOWABLE OVERDEPTH QUANTITY IS COMPUTED IMMEDIATELY BELOW THE REQUIRED MATERIAL TO BE DREDGED.
2. FOR SIDE SLOPE DREDGING, PAYMENT WILL BE MADE FOR MATERIALS REMOVED WHICH EXIST ABOVE THE SIDE SLOPE PAYMENT LIMIT LINE SHOWN.
3. THIS SECTION IS A PICTORIAL REPRESENTATION OF A TYPICAL AREA WITHIN THE REQUIRED DREDGING AREA.

FISCAL YEAR	ARCADIA HARBOR HISTORICAL QUANTITIES QUANTITY REMOVED (C.Y.)
03	3,762
02	4,108
01	3,732
00	4,200
99	4,297
98	5,500
97	4,230

STATION	CHANNEL & CENTER LINE COORDINATES NORTH	EAST
1A	431,094.95	19,193,029.42
2A	431,044.97	19,193,026.83
3	431,000.29	19,194,850.92
4	430,950.31	19,194,848.32
CL\ 1B	431,067.42	19,193,076.53
CL\0	431,051.88	19,193,376.13
CL\1	430,979.20	19,194,774.25
1D	431,004.21	19,194,775.55
2D	430,954.23	19,194,772.95
3D	431,092.43	19,193,077.83
4D	431,042.46	19,193,075.24

STATION	HORIZONTAL CONTROL COORDINATES NORTH	EAST
BETTY	430,726.108	19,194,418.605
CROSS	431,140.897	19,193,680.025
EMIL	430,719.092	19,193,923.697
JOSHUA	430,948.16	19,193,360.95
ROCK	430,878.74	19,194,546.15
SMUK	431,196.998	19,194,544.063

LEGEND

- 9.0 FT. DEPTH CONTOUR
- REQUIRED MAINTENANCE DREDGING AREA TO 9.0 FT CONTOUR BELOW L.W.D.
- CHANNEL LINE
- ORDINARY HIGH WATER MARK
- SHORELINE
- TOLERANCE DIMENSION LINE (T.D.)
- CENTER LINE
- 1D — CHANNEL LINE TURNING POINT
- CROSS — SURVEY CONTROL POINTS
- C.S. — CHANNEL STATION
- L.W.D. — LOW WATER DATUM
- (TYP.) — TYPICAL
- GOVERNMENT-FURNISHED PLACEMENT AREA

NUMBER	DATE	REVISION	BY

U.S. ARMY CORPS OF ENGINEERS, DETROIT DISTRICT
DESIGN BRANCH

DESIGNED BY: J.F.K
DRAWN BY: E.B.
CHECKED BY: K.W.
REVIEWED BY: INI
APPROVED BY: INI

ARCADIA HARBOR, MI

FY 04 MAINTENANCE DREDGING

DREDGE PLAN, PLACEMENT AREA, CROSS SECTION, LEGEND, NOTES, CONTROL DATA, VICINITY AND LOCATION MAP

PLOT SCALE: FULL
DATE: 4 MAY 04
SHEET: 1 OF 1
FILE NAME: ARD01A04.DGN
SOLICITATION NUMBER: XXXXXXXXXXXXXX
CONTRACT NUMBER: XXXXXXXXXXXXXX

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