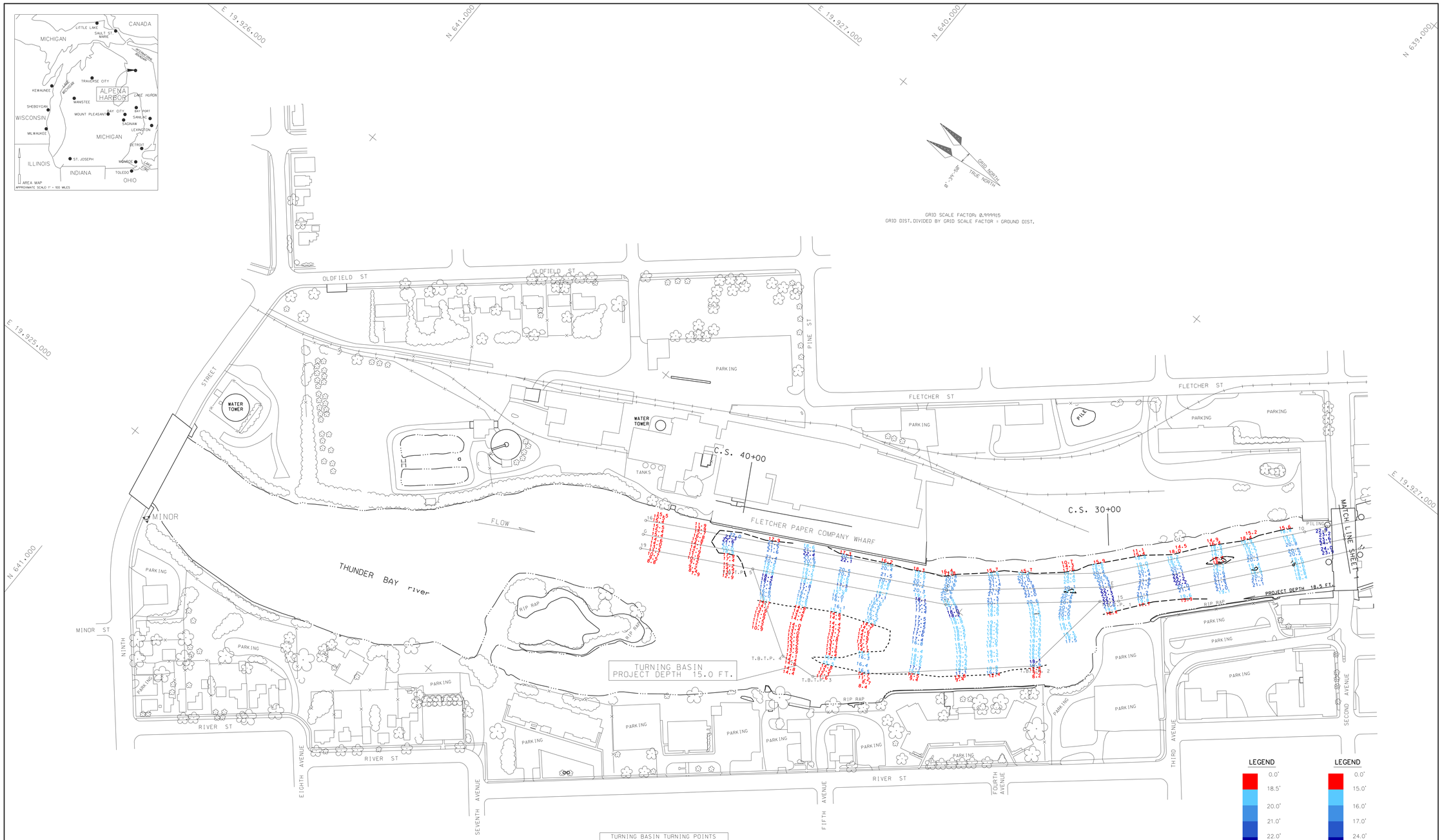

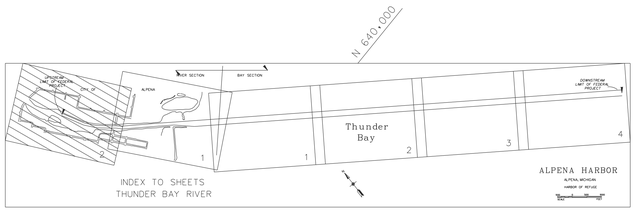

CENTERLINE (CORPSCON)		
STATION NUMBER	COORDINATES EAST	NORTH
E	19.926.307.05	638.727.74
F	19.926.025.17	639.062.31
G	19.925.633.97	639.780.92

HORIZONTAL GROUND CONTROL		
STATION NUMBER	COORDINATES EAST	NORTH
MINOR	19.924.837.86	640.829.31

TURNING BASIN TURNING POINTS		
T.B.T.P. NUMBER	COORDINATES EAST	NORTH
1	19.926..257.50	638.728.39
2	19.926.012.54	638.758.58
3	19.925.624.36	639.194.47
4	19.925.616.17	639.290.20
5	19.925.745.47	639.497.72

CHANNEL LINE (CORPSCON ADJUSTED)		
STATION NUMBER	COORDINATES EAST	NORTH
10	19.926.742.32	638.422.62
12	19.926.324.70	638.765.00
13	19.926.655.26	638.390.55
14	19.926.056.29	639.083.57
15	19.926.289.41	638.690.48
16	19.925.666.91	639.798.85
17	19.925.994.05	639.041.04
19	19.925.601.03	639.762.99

NOTES:

1) THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULT OF SURVEYS MADE ON THE DATE AS INDICATED AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.

2) THE SOUNDINGS DEPICTED HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND TENTHS THEREOF AND ARE REFERENCED TO THE FOLLOWING DATUMS:
HORIZONTAL: MICHIGAN STATE PLANE COORDINATE SYSTEM, MICHIGAN CENTRAL ZONE #2112, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985. (L.W.D. = 577.5)

3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL SKIFF EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: TRIMBLE DSM
SONAR: ODOM CV-300
SOFTWARE: HYPACK 2013

4) TIDE CORRECTION VALUES DERIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATION(S) AS FOLLOWS:
ALPENA, MI (#9075065) @ 100%

US ARMY CORPS OF ENGINEERS DETROIT DISTRICT

UNITED STATES ARMY CORPS OF ENGINEERS
DETROIT AREA OFFICE, DETROIT, MICHIGAN

CONDITION SURVEY
ALPENA HARBOR, MI.
RIVER SECTION
CS 24+00 TO CS 42+48

DRAWN BY: B.R.
CHECKED BY: C.V.L.
DATE OF SURVEY: 3 JUNE 2016

100' 0' 100' 200'
SCALE 1" = 100'

SHEET 3 OF 3