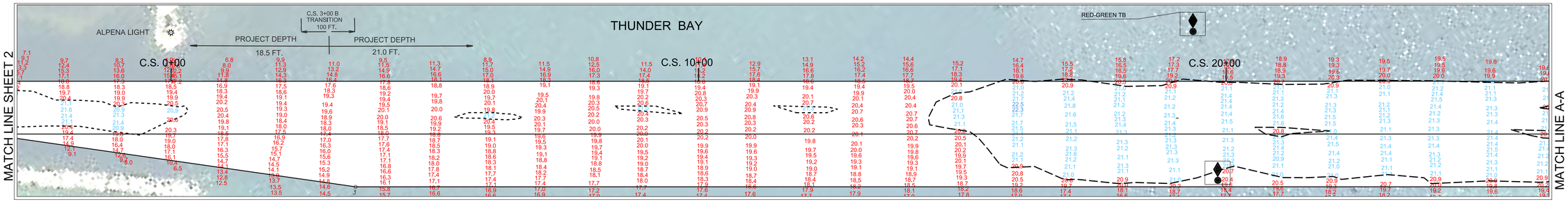

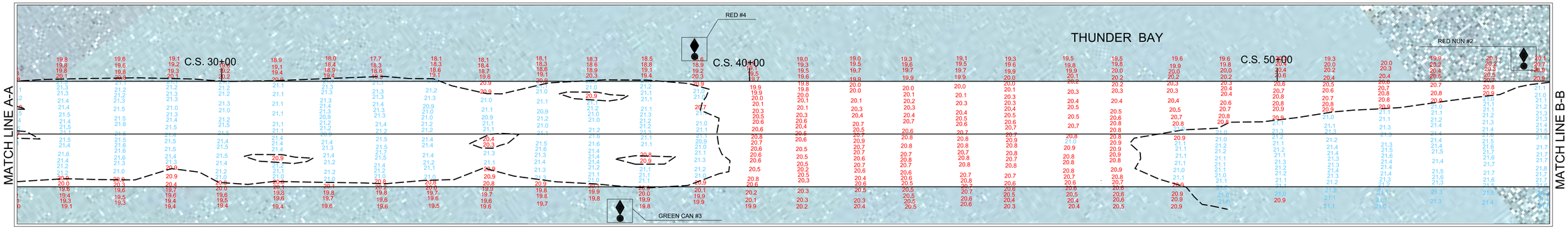

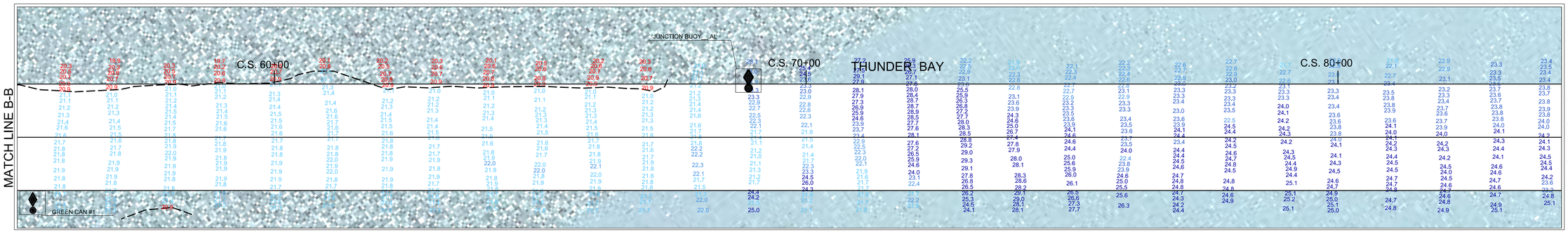

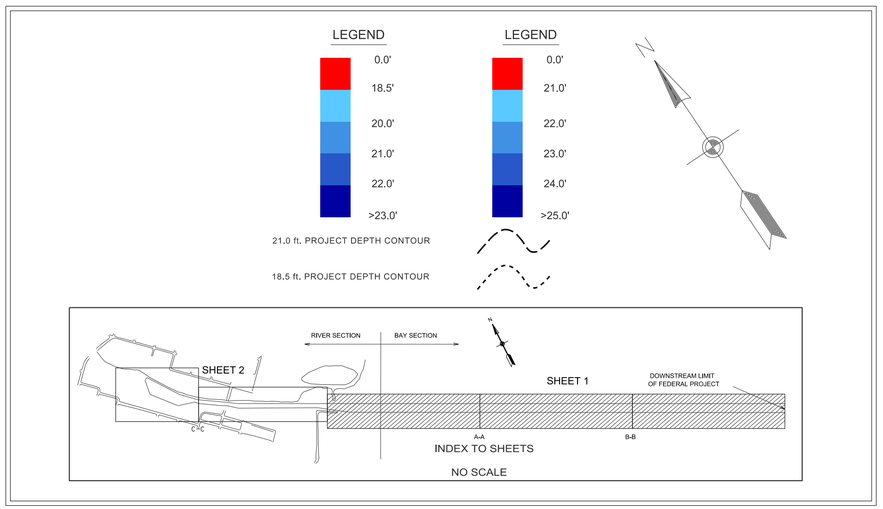

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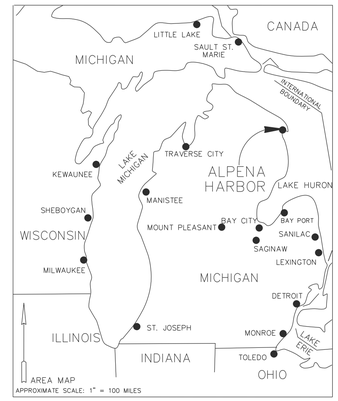
   VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985. LOW WATER DATUM 577.5

3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY BULTON EMPLOYING THE FOLLOWING COMPONENTS:
   POSITIONING: APPLANIX POS M/V
   MOTION COMPENSATION: APPLANIX POS M/V
   SONAR: ODOM CV-300
   SOFTWARE: HYPACK 2015

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



100' 0' 100' 200'

SCALE 1" = 100'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE	APPR.

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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
DETROIT, MI

DETROIT AREA OFFICE
6309 WEST JEFFERSON AVE.
DETROIT MICHIGAN, 48209

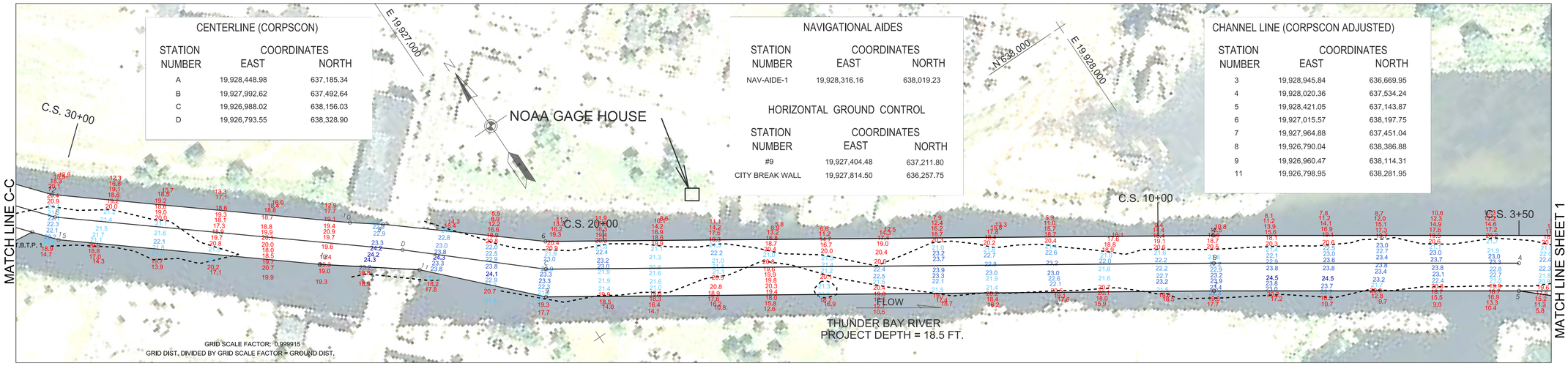
SURVEYOR: K.J.K./M.E.S.	DRAWN BY: B.R.
REVIEWED BY: C.V.H.	SUBMITTED BY:
APPROVED BY:	CONTRACT NO.:
PLOT SCALE:	IMAGE DATE: 23 AUG 2018
SIZE:	IMAGE SOURCE: U.S.C.G.S.
FILE NUMBER:	
FILE NAME:	

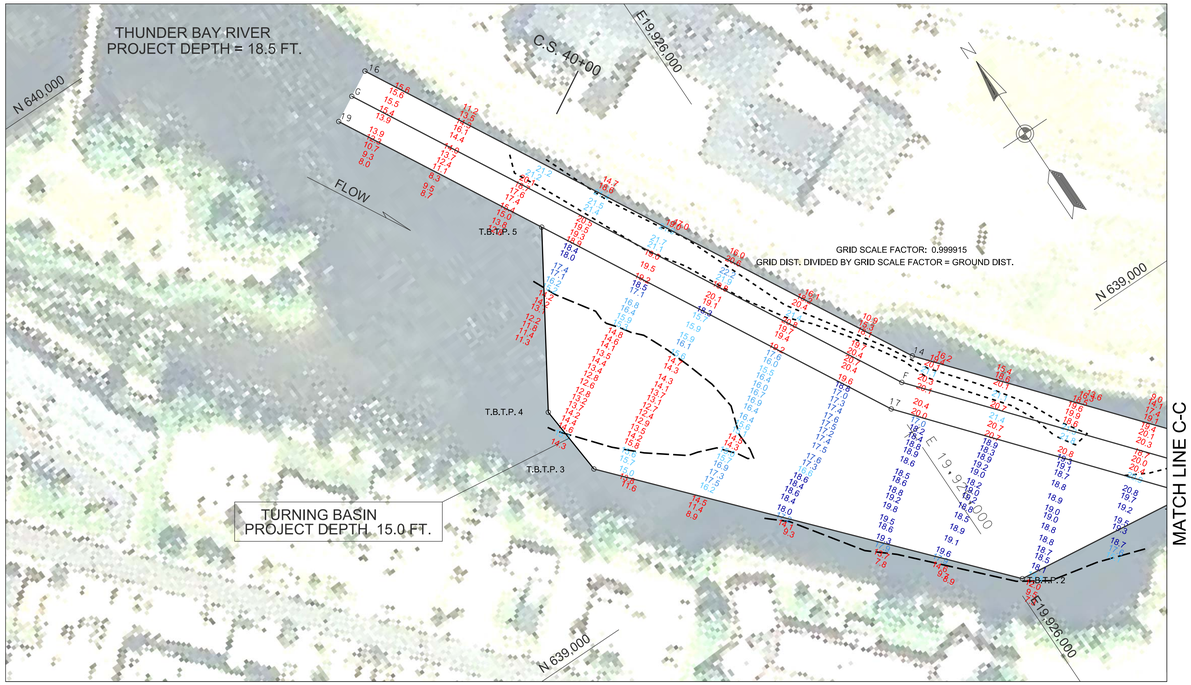
ALPENA HARBOR MICHIGAN

CONDITION SURVEY
24 JULY 2018

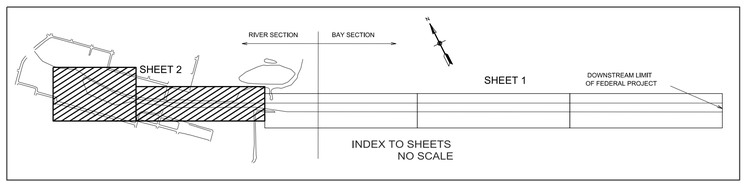
SHEET IDENTIFICATION

SHEET 1 OF 2





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
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



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   ALPENA, MI (#9075065) @ 100%

LEGEND

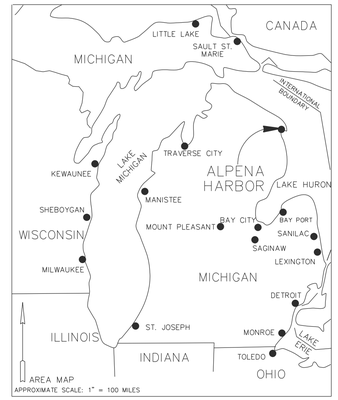
0.0'	
18.5'	
20.0'	
21.0'	
22.0'	
>23.0'	

18.5 ft. PROJECT DEPTH CONTOUR

LEGEND

0.0'	
15.0'	
16.0'	
17.0'	
18.0'	
>19.0'	

15.0 ft. PROJECT DEPTH CONTOUR



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