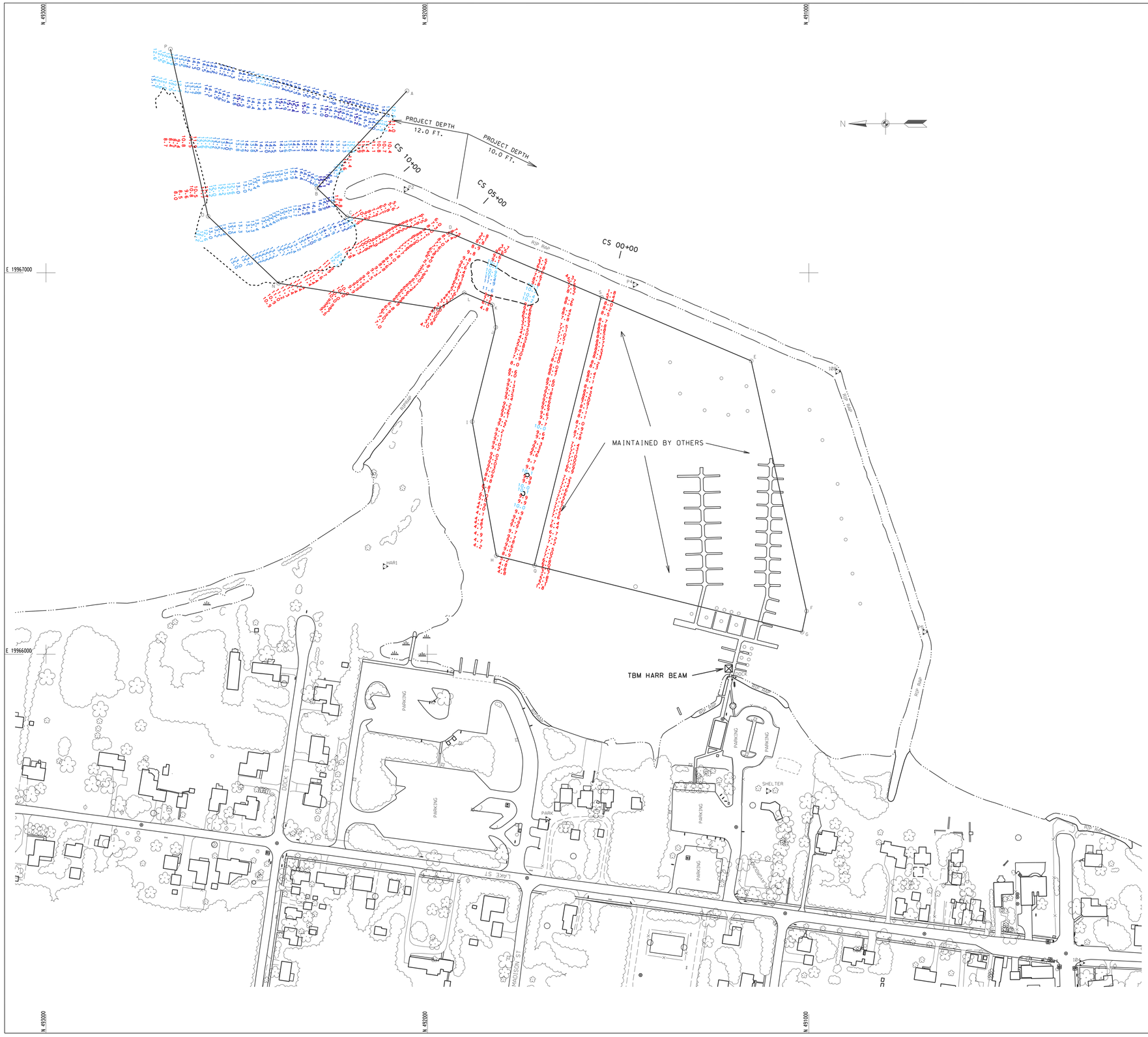

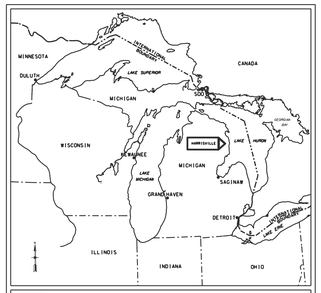

SURVEY CONTROL POINTS

STATION	COORDINATES EAST X	NORTH Y
DOCK	19.965.938.887	491.198.329
HAR1	19.966.230.245	492.111.558
PARK	19.965.566.772	491.685.372
SHELTER	19.965.641.427	491.106.695
P2	19.967.218.848	492.056.664
P4	19.966.969.049	491.456.005
P5	19.966.058.627	490.696.223
104	19.965.190.467	490.284.899
108	19.966.741.290	490.924.963
NAVAID 1	19.967.212.721	492.193.437
NAVAID 2	19.966.886.493	491.185.325

CHANNEL LINE POINTS

STATION	COORDINATES EAST X	NORTH Y
A	19.967.477.150	492.053.430
B	19.967.221.994	492.289.628
C	19.967.146.877	492.210.475
D	19.967.103.924	491.939.392
E	19.966.769.042	491.150.961
F	19.966.113.173	491.006.074
G	19.966.058.071	491.017.597
H	19.966.258.132	491.819.360
I	19.966.609.898	491.882.510
J	19.966.857.343	491.820.752
K	19.966.916.265	491.829.962
L	19.966.947.429	491.903.535
M	19.966.906.346	491.970.582
N	19.966.972.712	492.390.372
O	19.967.148.118	492.575.099
P	19.967.586.779	492.673.903
Q	19.966.233.000	491.719.039
S	19.966.935.847	491.543.521

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 TIED TO THEREIN 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, LWD=577.5

3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL SKIFF EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: TRIMBLE R10-WAA RTK-WAA W/DGPS
TIDE COMPENSATION: N/A
SONAR: ODOM CV100
SOFTWARE: HYPACK 2013

4) GAGES USED WERE REFERENCED FROM TBM HARR BEAM WHICH WAS ESTABLISHED FROM NGS VERTICAL CONTROL POINT # 301 (PID QH0514).

LEGEND

LEGEND

10.0 ft. PROJECT DEPTH CONTOUR

12.0 ft. PROJECT DEPTH CONTOUR

US ARMY CORPS OF ENGINEERS DETROIT DISTRICT

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

CONDITION SURVEY
HARRISVILLE HARBOR, MI

CS 00+00 TO CS 12+50

SURVEYED BY: D.E.H.

CHECKED BY: C.V.L.

DATE OF SURVEY: 27 JULY 2016

100' 0' 100' 200'

SCALE 1" = 100'

SHEET 1 OF 1