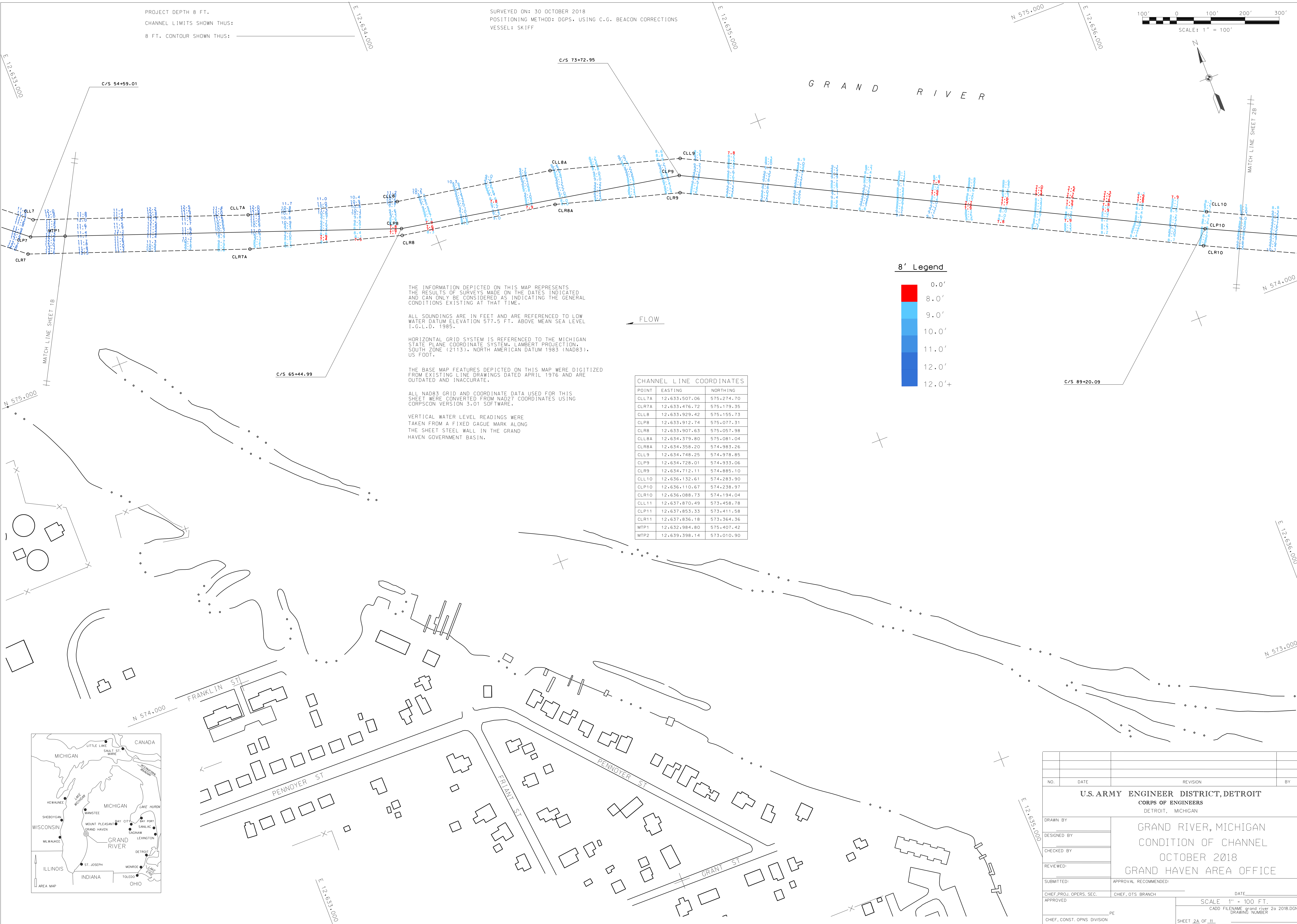
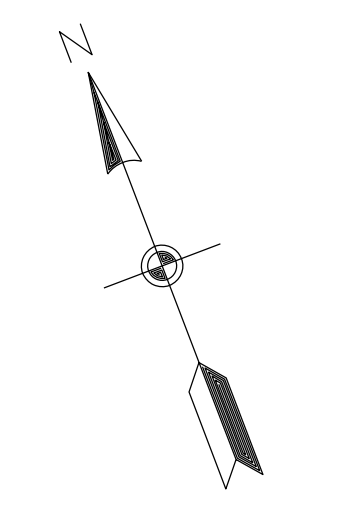
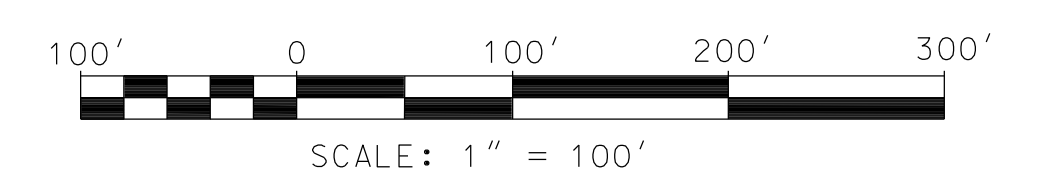


PROJECT DEPTH 8 FT.  
CHANNEL LIMITS SHOWN THUS:  
8 FT. CONTOUR SHOWN THUS:

SURVEYED ON: 30 OCTOBER 2018  
POSITIONING METHOD: DGPS, USING C.G. BEACON CORRECTIONS  
VESSEL: SKIFF



THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LW WATER DATUM ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL I-G.L.D., 1985.

HORIZONTAL GRID SYSTEM IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983 (NAD83), US FOOT.

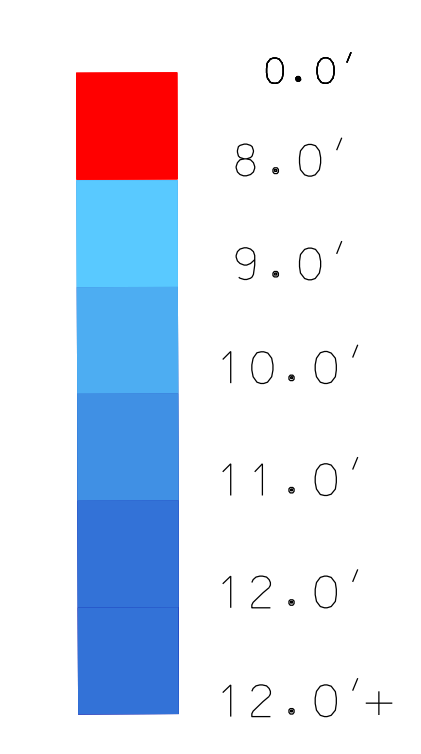
THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING LINE DRAWINGS DATED APRIL 1976 AND ARE OUTDATED AND INACCURATE.

ALL NAD83 GRID AND COORDINATE DATA USED FOR THIS SHEET WERE CONVERTED FROM NAD27 COORDINATES USING CORPSCON VERSION 3.01 SOFTWARE.

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL IN THE GRAND HAVEN GOVERNMENT BASIN.

FLOW

**8' Legend**



POINT	EASTING	NORTHING
CLL7A	12.633.507.06	575.274.70
CLR7A	12.633.476.72	575.179.35
CLL8	12.633.929.42	575.155.73
CLR8	12.633.912.74	575.077.31
CLL9	12.633.907.63	575.057.98
CLR9	12.634.748.25	574.978.85
CLL10	12.634.728.01	574.933.06
CLR10	12.634.712.11	574.885.10
CLL11	12.636.132.61	574.283.90
CLR11	12.636.110.67	574.238.97
CLL12	12.636.088.73	574.194.04
CLR12	12.637.070.49	573.458.78
CLL13	12.637.053.33	573.411.58
CLR13	12.637.036.18	573.364.36
MTP1	12.632.984.80	575.407.42
MTP2	12.639.398.14	573.010.90



NO.	DATE	REVISION	BY

**U.S. ARMY ENGINEER DISTRICT, DETROIT**  
CORPS OF ENGINEERS  
DETROIT, MICHIGAN

DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
REVIEWED: \_\_\_\_\_  
SUBMITTED: \_\_\_\_\_  
APPROVED: \_\_\_\_\_

GRAND RIVER, MICHIGAN  
CONDITION OF CHANNEL  
OCTOBER 2018  
GRAND HAVEN AREA OFFICE

APPROVAL RECOMMENDED: \_\_\_\_\_  
DATE: \_\_\_\_\_

SCALE 1" = 100 FT.  
CADD FILENAME: grand\_river\_2a\_2018.dgn  
DRAWING NUMBER: \_\_\_\_\_

SHEET 2A OF 11