



UTM GRID NORTH
ZONE 21 (NAD83)

B.M.
PWC BM 1-88
BRASS PLAQUE IN WALL

NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATE(S) BETWEEN AUGUST 27,2018 & FEBRUARY 05,2020

SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING MIN/INST VEL. OF SOUND 1460 m/s
DEPTH GATE USED N/A FREQ. OF TRANS. 210 kHz

POSITIONING SYSTEM USED TRIMBLE R7 GNSS DGPS (WITH OTF)
LAND SURVEY POSITION BY TRIMBLE R7 GNSS DGPS (WITH OTF)

DATA TAPE/DISC(S) USED
CAD DRAWING FILE(S)
TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS
DATE OF PROCESSING FEBRUARY 2020

MODE OF PLOTTING LEAST OF MINIMUM DEPTHS
MATRIX CELL WIDTH X LENGTH
REDUCTION OF MATRIX CELLS

CONTROL POINTS:	PT. NAME	NORTHING	EASTING	CD ELEV	DESCRIPTION
	PWC 1-2007	5217245.955	594878.768	3.42	PUNCH MARK ON STEEL IN CONC. WALL.
	PWC 9003	5217305.770	594864.964	4.41	NAIL IN CONC. DECK OF BREAKWATER.
	76G2575	5217117.478	594711.486		C.I. MON. SET IN CONC. CYLINDER.
	76G2574	5217195.435	594481.174		C.I. MON. SET IN CONC. CYLINDER.
	BM 1-88	5217241.887	594806.977	4.73	BRASS PLAQUE SET IN CONC. WALL.
	CHS BM 1-1981	5216937.576	594736.401	3.402	CHS BRASS PLAQUE SET IN CONCRETE DECK
	CHS BM 2-1981	5216925.470	594754.802	3.386	CHS BRASS PLAQUE SET IN CONCRETE DECK
	BM 92F244	5216863.067	594784.704	7.09	GEODETIC BM SET IN SW CORNER OF BRIDGE

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 1-1981 ELEV. +3.402 m (BRASS PLAQUE SET IN CONCRETE DECK.)

SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM BETWEEN AUGUST 27,2018 & SEPTEMBER 24,2018 BY PWGSC SURVEY CREW.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 22, USING THE NORTH AMERICAN DATUM OF 1983(NAD83).

SOUNDINGS WERE REDUCED BY DIGITRACE & RE-CHECKED FROM SOUNDING CHARTS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.

SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013"A".

SPEED OF SOUND WAS OBTAINED BY "BAR CHECK" METHOD.

ALL FIELD NOTES ARE IN GRAND BANK BOOK #77"B".

LEGEND

SYMBOLS

- ⊕ ACQUACULTURE
- ⊕ ANCHOR BLOCK
- ⊕ BOLLARD
- ⊕ BORDHOLE
- ⊕ BOUNDARY MARKER
- ⊕ CARD POSITION BUOY
- ⊕ CATCH BASIN
- ⊕ CLEAT
- ⊕ CULVERT
- ⊕ DERRICK
- ⊕ DISPOSAL
- ⊕ SEWER CONTROL
- ⊕ ELECTRICAL OUTLET
- ⊕ FIRE HYDRANT
- ⊕ FIRST AID
- ⊕ FISH HANDLING EQUIP.
- ⊕ FOG HORN
- ⊕ FUEL PUMP
- ⊕ H PILE
- ⊕ HORIZONTAL CONTROL
- ⊕ ICE PLANT
- ⊕ INVERT PIPE
- ⊕ JIB CRANE
- ⊕ FLAG POLE
- ⊕ LADDER
- ⊕ LIFE RING
- ⊕ LIGHT STANDARD
- ⊕ MANHOLE
- ⊕ MARSH
- ⊕ MAST/TOWER
- ⊕ NAVIGATION BUOY
- ⊕ OBSERVED BUOY
- ⊕ OBSERVED SPAR BUOY
- ⊕ PIPE PILE
- ⊕ RANGE LIGHT
- ⊕ SAFETY POST
- ⊕ SEWER OUTFLOW PIPE
- ⊕ SIGN
- ⊕ TELEPHONE
- ⊕ TELEPHONE POLE
- ⊕ TIDE GAUGE/STAFF
- ⊕ TREE
- ⊕ UTILITY POLE
- ⊕ VERTICAL CONTROL
- ⊕ WATER TAP/OUTLET
- ⊕ WATER VALVE
- ⊕ WATER WELL
- ⊕ WOOD PILE

LINE TYPE

- ARMOUR STONE
- CL RAILROAD
- DRAIN PIPE
- EDGE ROAD / SHOULDER
- FENCE LINE
- FLOATING WAVEBREAK
- GUARD RAIL
- HIGH WATER MARK
- LOW WATER MARK
- MARSH OUTLINE
- PROPERTY BOUNDARY
- RANGE LIGHT EXTENSION
- RETAINING WALL
- RIPRAP
- TOE OF BANK
- TREE LINE
- UNDERGROUND CABLE

SCALE: 1:250
0m 5m 10m 15m 20m 25m

Fisheries and Oceans Canada
Pêches et Océans Canada

SMALL CRAFT HARBOURS

- NOTES:**
- ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
APN ENGINEERING INC.

To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by APGNL, F0282, which is valid for the year 2021.

REGISTERED PROFESSIONAL ENGINEER
NEIL C. HUNT
NEWFOUNDLAND & LABRADOR

J	RE-ISSUED FOR TENDER BASED ON 2021 SCOPE	6/19/21
I	RE-ISSUED FOR TENDER BASED ON 2021 SCOPE	3/24/21
H	RE-ISSUED FOR TENDER BASED ON 2021 SCOPE	8/19/20
G	RE-ISSUED FOR REVIEW BASED ON 2020 SCOPE	3/26/20
F	RE-ISSUED FOR TENDER	5/11/18
E	ISSUED FOR TENDER	3/19/18
D	RE-ISSUED FOR 99% REVIEW	6/9/17
C	ISSUED FOR 99% REVIEW	2/20/17
B	ISSUED FOR 66% REVIEW	2/13/17
A	ISSUED FOR 33% REVIEW	11/12/16

revisions

project **WHARF RECONSTRUCTION (PHASE II) GRAND BANK, NL**

drawing

SOUNDING AND TOPOGRAPHIC SURVEY

designed	N.H.	concu
drawn	P.H.	desine
date	JUNE 19, 2021	
approved		approval
Tender		Submission
DFO Project Manager		
project number	C2-00200	no. du projet
drawing no.	C1	no. du dessin