NOTE:

1. NEW PWGSC SOUNDING SURVEY MAY BE PROVIDED PRIOR TO CONSTRUCTION. CONFIRM LAYOUT OF ALL NEW WORKS WITH THE DEPARTMENTAL REPRESENTATIVE PRIOR TO PROCEEDING.

LEGEND:

BH4 INDICATES BOREHOLES (FRACFLOW 2015)

BH6/ BH6-PC

BH1

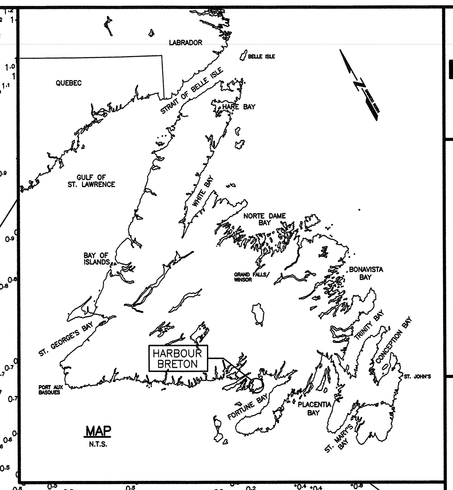
BH2

BH5

GEODETIC BM 76F357
BRASS PLAQUE IN DECK
ELEV.+3.726 m

BH3/ BH3-PC

BH4



MAP
N.T.S.

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

0 10 20mm 40 60 80 100 120 140 160 180 200mm

NOTES

SURVEY PARTY CHIEF: RICHARD HEALEY
SURVEY VESSEL: ALUMINUM BOAT (SSV LUNO 16)
SURVEY DATE(S): BETWEEN 03,2010 & JUNE 03,2015

SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING: MIN/INST VEL. OF SOUND 1481m/s
DEPTH GATE USED: N/A FRE. 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: TRIMBLE R7 GNSS DGPS (WITH OTF)

OFFICE PROCESSOR: EDDIE BEARNS
DATE OF PROCESSING: JUNE 2015

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

CONTROL POINTS:

Pt. NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
6967-1982	589561.727	5259056.772	+3.188 m	CHS BRASS PLAQUE SET IN CONCRETE DECK
76F357	590006.902	5259245.839	+3.726 m	GEODETIC BRASS PLAQUE SET IN CONCRETE DECK
BM 2-1980			+4.030 m	CHS BRASS PLAQUE SET IN CONCRETE FOUNDATION
BM 4-1973			+3.481 m	CHS BRASS PLAQUE SET IN CONCRETE BASE ON BOLLARD
BM 5-1973			+3.592 m	CHS BRASS PLAQUE SET IN CONCRETE BLOCK
9305019	590213.853	5259878.120	+46.67 m	PROVINCIAL BRASS PLAQUE SET IN BEDROCK
9305020	589697.275	5259342.485	+52.51 m	PROVINCIAL BRASS PLAQUE SET IN BEDROCK
PWC 1-2010	589721.185	5259296.350	+15.853 m	NAIL IN EDGE OF PAVED ROAD
PWC 2-2010	589584.528	5259276.658	+15.860 m	NAIL IN PAVED WALKWAY —"NEAR LOOK-OUT"
PWC 3-2010	589786.050	5259347.945	+15.740 m	OPERATING NUT ON TOP OF FIRE HYDRANT

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 5-1973 ELEV. +3.592 m
(BRASS PLAQUE SET IN CONCRETE BLOCK NEAR GOVERMENT WHARF).

SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM BETWEEN MARCH 03,2010 & JUNE 03,2015 BY PWGSC SURVEY CREW.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 21, 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 HARBOUR BRETON BOOK #274.

LEGEND

SYMBOLS

- ACQUACULTURE
- ANCHOR BLOCK
- BOLLARD
- BOREHOLE
- BOUNDARY MARKER
- CARD POSITION BUOY
- CATCH BASIN
- CLEAT
- CULVERT
- DERRICK
- DISPOSAL
- DREDGE 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 LIGHT
- OBSERVED BUOY
- OBSERVED SPAR BUOY
- PIPE PILE
- RANGE LIGHT
- SAFETY POST
- SEWER OUTFLOW PIPE
- SIGN
- TELEPHONE
- TELEPHONE POLE
- TIDE GUAGE/STAFF
- TREE
- UTILITY POLE
- VERTICAL CONTROL
- WATER TAP/OUTLET
- WATER VALVE
- WATER WELL
- WOOD PILE

LINETYPE

- 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

PWGSC B1 (2004)

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
AFN ENGINEERING INC.
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by APEGNL F0292 which is valid for the year 2015.

STAMP
REGISTERED PROFESSIONAL ENGINEER
NEIL C. HUNT
SIGNATURE
7/7/15
DATE
NEWFOUNDLAND & LABRADOR

C	ISSUED FOR TENDER	7/7/15
B	ISSUED FOR 66% REVIEW	26/11/14
A	ISSUED FOR 33% REVIEW	14/10/14
revisions		date

project / projet

HARBOUR DEVELOPMENT

HARBOUR BRETON, NL

drawing / dessin

SOUNDING AND TOPOGRAPHIC SURVEY

designed N.H. / conçu
date JANUARY 3, 2015
drawn P.H. / dessiné
date JANUARY 3, 2015
approved / approuvé
date
Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC
project number / no. du projet
R.075160.001
drawing no. / no. du dessin
C1

E-DRM/GDD-E: 513845