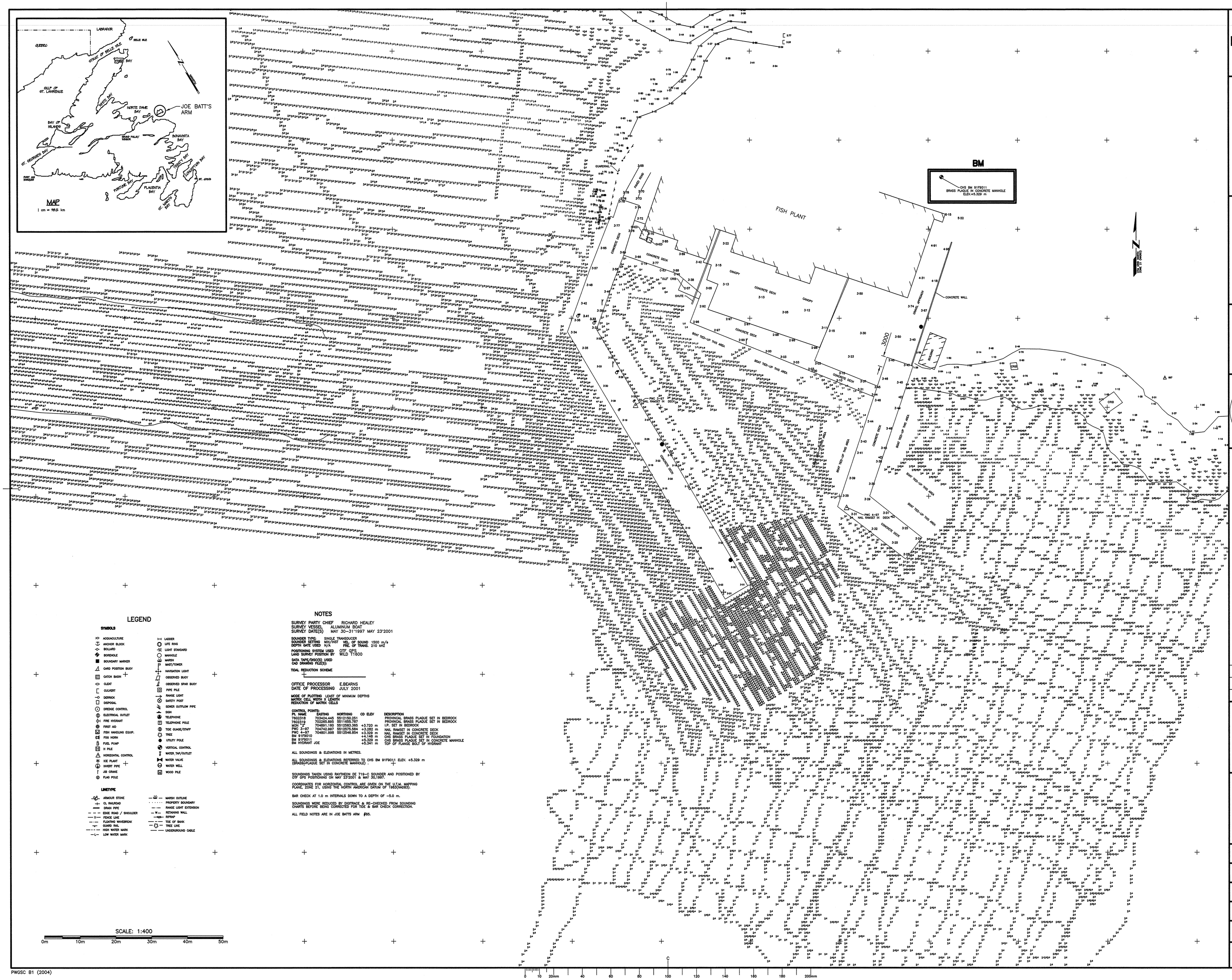

LEGEND

SYMBOLS

- AQUACULTURE
- 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

NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATE(S) MAY 30–31'1997 MAY 23'2001

SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING mm/INST VEL. OF SOUND 1500 m/s
DEPTH GATE USED N/A FREQ. OF TRANS. 210 kHz

POSITIONING SYSTEM USED OTF GPS
LAND SURVEY POSITION BY WILD T1600

DATA TAPE/DISC(S) USED
CAD DRAWING FILE(S):

TIDAL REDUCTION SCHEME

OFFICE PROCESSOR E.BEARNS
DATE OF PROCESSING JULY 2001

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

CONTROL POINTS:

PL NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
7602318	703424.445	5512150.251		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
7602319	702265.895	5511655.787		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
MON "5"	704891.160	5512583.365	+3.720 m	U.P. SET IN BEDROCK
PWC 2–97	704742.997	5513575.584	+3.332 m	NAIL RAMSET IN CONCRETE DECK
PWC 3–97	704801.998	5512546.854	+3.329 m	NAIL RAMSET IN CONCRETE DECK
BM 91F9010			+4.148 m	CHS BRASS PLAQUE SET IN FOUNDATION
BM 91F5011			+5.329 m	CHS BRASS PLAQUE SET IN CONCRETE MANHOLE
BM HYDRANT JOE			+5.341 m	TOP OF FLANGE BOLT OF HYDRANT

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 91F9011 ELEV. +5.329 m (BRASS PLAQUE SET IN CONCRETE MANHOLE) .

SOUNDINGS TAKEN USING RAYTHEON DE 719–C SOUNDER AND POSITIONED BY OTF GPS POSITIONING ON MAY 23'2001 & MAY 30,1997.

COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 21, USING THE NORTH AMERICAN DATUM OF 1983(NAD83).

BAR CHECK AT 1.0 m INTERVALS DOWN TO A DEPTH OF –5.0 m.

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

ALL FIELD NOTES ARE IN JOE BATTS ARM #85.

SCALE: 1:400

0m 10m 20m 30m 40m 50m

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

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 ENGINEERS
NEIL C. HUNT
SIGNATURE
6/5/15
DATE
NEWFOUNDLAND & LABRADOR

B	ISSUED FOR TENDER	6/5/15
A	ISSUED FOR 33% REVIEW	28/12/14
revisions		date

project / projet

HARBOUR DEVELOPMENT

JOE BATT'S ARM, NL

drawing / dessin

SOUNDING AND TOPOGRAPHIC SURVEY

designed N.H. / conçu
date JUNE 5, 2015
drawn P.H. / dessiné
date JUNE 5, 2015
approved / approuvé
date
Tender / Soumission
PWGSC Project Manager 16 June 2015 Administrateur de projets TPSGC
project number / no. du projet
R.077427.001
drawing no. / no. du dessin
C1 OF 8

E-DRM/GDD-E: 521899 Version 1