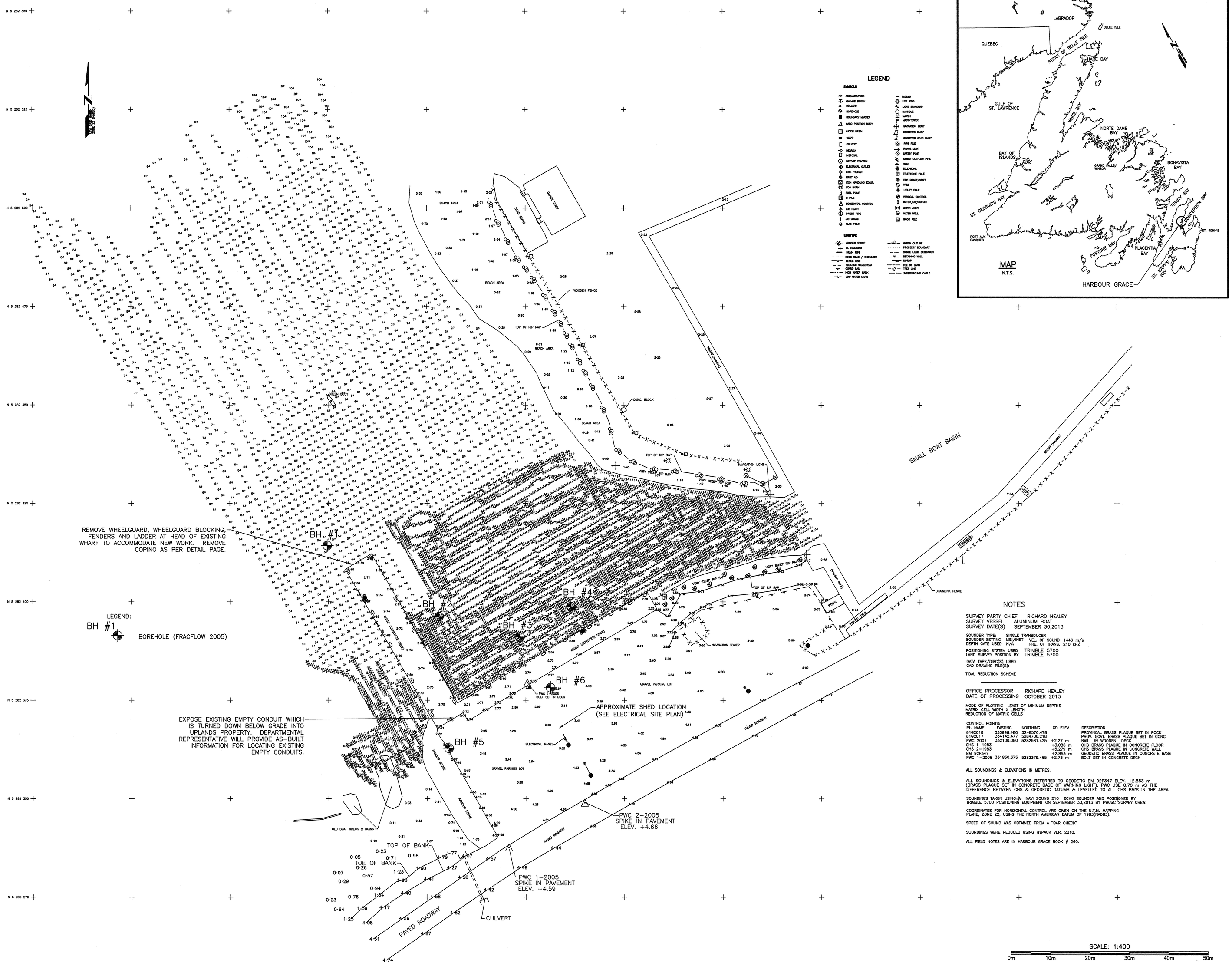

LEGEND

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 OUTLOW PIPE
- SIGN
- TELEPHONE
- TELEPHONE POLE
- TIDE GUAGE/TEMPT
- 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 BREAKWATER
- 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) SEPTEMBER 30,2013

SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING MIN/INST VEL. OF SOUND 1446 m/s
DEPTH GATE USED N/A FREQ. OF TRANS. 210 kHZ

POSITIONING SYSTEM USED TRIMBLE 5700
LAND SURVEY POSITION BY TRIMBLE 5700

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

TIDAL REDUCTION SCHEME

OFFICE PROCESSOR RICHARD HEALEY
DATE OF PROCESSING OCTOBER 2013

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
81C2018	333968.480	5248570.478		PROVINCIAL BRASS PLAQUE SET IN ROCK
81C2017	334142.477	5284708.218		PROV. GOVT. BRASS PLAQUE SET IN CONC.
PWC 2001	332100.080	5282581.425	+2.27 m	NAIL IN WOODEN DECK
CHS 1-1983			+3.066 m	CHS BRASS PLAQUE IN CONCRETE FLOOR
CHS 2-1983			+5.279 m	CHS BRASS PLAQUE IN CONCRETE WALL
BM 92F347			+2.853 m	GEODETIC BRASS PLAQUE IN CONCRETE BASE
PWC 1-2006	331850.375	5282379.465	+2.73 m	BOLT SET IN CONCRETE DECK

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO GEODETIC BM 92F347 ELEV. +2.853 m (BRASS PLAQUE SET IN CONCRETE BASE OF WARNING LIGHT). PWC USE 0.70 m AS THE DIFFERENCE BETWEEN CHS & GEODETIC DATUMS & LEVELLED TO ALL CHS BM'S IN THE AREA.

SOUNDINGS TAKEN USING A NAVI SOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE 5700 POSITIONING EQUIPMENT ON SEPTEMBER 30,2013 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).

SPEED OF SOUND WAS OBTAINED FROM A "BAR CHECK"

SOUNDINGS WERE REDUCED USING HYPACK VER. 2010.

ALL FIELD NOTES ARE IN HARBOUR GRACE BOOK # 260.

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 P0292
which is valid for the year 2014.

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

revisions		date
B	ISSUED FOR TENDER	13/08/14
A	ISSUED FOR 33% REVIEW	09/05/14

project / projet

WHARF EXTENSION
HARBOUR GRACE, NL

drawing / dessin

SOUNDING AND TOPOGRAPHIC SURVEY

designed N.H. / conçu
date AUGUST 13, 2014
drawn P.H. / dessiné
date AUGUST 13, 2014
approved / approuvé
date
Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC
project number / no. du projet
R.071732.001
drawing no. / no. du dessin
C1 OF 8

PWGSC B1 (2004)

E-DRM/GDD-E: #495515 Version 1