SURVEY NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATE(S) BETWEEN NOVEMBER 18,2013 & JULY 15,2015

SOUNDER TYPE: SINGLE TRANSDUCER
SOUNDER SETTING MIN/INST VEL. OF SOUND 1520 m/s
DEPTH GATE USED N/A FRE. OF TRANS. 210 kHz

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

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

TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS
DATE OF PROCESSING JULY 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
87G3077	458375.292	5565621.543		PROVINCAL BRASS PLAQUE IN ROCK
87G3073	457831.695	5565530.310		PROVINCAL BRASS PLAQUE IN ROCK
PWC 1–03	457949.131	5565583.517	+3.970 m	BOLT SET IN CONC. WALL
PWC 1–07	457901.33	5565523.30		NAIL SET IN CONCRETE DECK
BM 77G0020	457915.322	5565543.712	+4.330 m	BRASS PLAQUE IN CONC. WALL
BM 77G0019	457897.592	5565528.642	+3.800 m	BRASS PLAQUE SET IN BEDROCK

ALL SOUNDINGS & ELEVATIONS IN METRES.

ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 77G0020 ELEV.=+4.330 m (BRASS PLAQUE SET IN CONCRETE RETAINING WALL) LOCATED AT NEAR THE COVERMENT WHARF AT DANIELS HARBOUR.

SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 DGPS POSITIONING SYSTEM BETWEEN NOVEMBER 18, 2013 & JULY 15,2015 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".

ALL FIELD NOTES ARE IN DANIELS HARBOUR BOOK #178.

CONSTRUCTION NOTES:

1. WORK UNDER THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
   (a) SITEWORK: EXCAVATION, REMOVALS & RECONSTRUCTION.
   (b) SUPPLY AND INSTALL NEW MATERIAL.
2. THE CONTRACTOR SHALL BE HELD TO HAVE VISITED THE SITE AND TO HAVE BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE PLAN BEFORE STARTING WORK.
3. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES. DO NOT SCALE FROM DRAWINGS, FIGURED DIMENSIONS ARE TO BE FOLLOWED.
4. IN THE AREA OF RECONSTRUCTION, CONTRACTOR IS REMOVE TOP LAYER OF ARMOUR STONE, SUPPLY AND INSTALL 1 NEW LAYER OF 4–6 TONNE ARMOUR STONE AS PER THE SECTION SHOWN. CONTRACTOR WILL INCORPERATE ALL MATERIAL REMOVED INTO NEW CONSTRUCTION AS FILTER STONE.

LEGEND

SYMBOLS

AQUACULTURE, ANCHOR BLOCK, BOLLARD, BOREHOLE, BOUNDARY MARKER, CAIRD 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, J/B 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

LEGEND

HORIZONTAL CONTROL POINT

SLOPE 1:2 — SLOPE: ALL SLOPES TO BE EXPRESSED AS THE RATIO OF RISE OVER RUN.

– NEW BREAKWATER CONSTRUCTION

– EXISTING BREAKWATER TO BE RECONSTRUCTED

HORIZONTAL CONTROL POINTS

MARK	EASTING	NORTHING	DESCRIPTION
A	E 457 912.027	N 5 565 508.661	POINT OF EXISTING BREAKWATER
B	E 457 895.950	N 5 565 520.520	POINT OF EXISTING BREAKWATER
C	E 457 895.757	N 5 565 528.748	POINT OF EXISTING BREAKWATER
D	E 457 903.568	N 5 565 537.355	POINT OF EXISTING BREAKWATER
E	E 457 921.524	N 5 565 561.388	POINT OF NEW BREAKWATER
F	E 457 982.960	N 5 565 634.280	POINT OF NEW BREAKWATER

NEW WORK PLAN

SCALE: 1:300

0m 5m 10m 15m 20m 25m 30m

MAP N.T.S.

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

revisions | date

project / projet

BREAKWATER CONSTRUCTION

DANIEL'S HARBOUR, NL

drawing / dessin

NEW WORK PLAN

designed PAUL DAVISON / conçu
date MAY 2010
drawn ED.BEARNS / dessiné
date JANUARY 2015
approved Sandy Pike / approuvé
date 2016-02-25
Tender Eddie Bears Feb 19/16 / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC

project number / no. du projet
R.079649.001

drawing no. / no. du dessin
1 OF 2

PWGSC B1 (2004)

E-DRM/GDD-E: 531128