

AREA "C" DREDGE COORDINATES		
MARK	EASTING	NORTHING
K	E 272 503.713	N 5 120 305.472
L	E 272 484.874	N 5 120 323.172
M	E 272 482.460	N 5 120 329.826
N	E 272 482.956	N 5 120 341.025
P	E 272 594.603	N 5 120 377.568
Q	E 272 548.645	N 5 120 321.077

SURVEY NOTES

SURVEY PARTY CHIEF: DARRYL GREEN
SURVEY VESSEL: SCOTIA SURVEYOR
SURVEY DATE(S): APRIL 20, 2021

SOUNDER TYPE: ROSS - SWEEP SYSTEM
SOUNDER SETTING: N/A VEL. OF SOUND 1456 m/s
DEPTH GATE USED: N/A FRE. OF TRANS: 190-210 KHZ
POSITIONING SYSTEM USED: TRIMBLE 5700 RTK
LAND SURVEY POSITION BY: TRIMBLE 5700 RTK

RAW DATA FILE(S): GLB110.ZIP
CAD DRAWING FILE(S): GLB110A.DWG

TIDAL REDUCTION SCHEME: PWC TBM, TOP OF CONCRETE DECK, ELEV. 3.07m
ABOVE CHART DATUM REF. TO CHS BM 87N9155, GLACE BAY, ELEV. 3.573m ABOVE C.D.

OFFICE PROCESSOR: DAVID MELANSON
DATE OF PROCESSING: APRIL 21, 2021

MODE OF PLOTTING: AVERAGE DEPTHS
MATRIX CELL WIDTH X LENGTH: 1.2m x 3.0m

CONTROL POINTS:	PT. NAME	EASTING	NORTHING	HORIZONTAL REF.	CD ELEV	VERTICAL REF.	DESCRIPTION
87N9154	272544.280	5120217.213	N/A	2.71	CHS	CHS MONUMENT	
SLIP	272374.740	5120008.677	GPS NSCM	2.21	LEVEL CHS	NAIL IN DECK (Revised October 25, 2012)	
AUTHORITY	272288.435	5119944.405	GPS NSCM	2.83	LEVEL CHS	BOLT IN DECK (Revised October 25, 2012)	
WEST	272221.622	5119972.635	GPS NSCM	N/A	N/A	BOLT IN DECK (Revised October 25, 2012)	
TBM	272494.513	5120253.871	GPS NSCM	3.07	LEVEL CHS	PWC BENCHMARK TOP OF CURB (Revised October 25, 2012)	

HORIZONTAL CONTROL NOTES:
ALL HORIZONTAL CONTROL POINTS WERE REVISED ON OCTOBER 25, 2012 AS A RESULT OF THE OCTOBER 16-17, 2012 SURVEY. A GPS BASE WAS SETUP ON PWC CONTROL POINT "SLIP". LRIS 219722, 202260, & 21797 WERE OBSERVED AND A DIFFERENCE WAS FOUND BETWEEN PROVINCIAL CONTROL VALUES AND PWGSC OBSERVED VALUES. THIS DIFFERENCE WAS AVERAGED AND APPLIED TO PWGSC HORIZONTAL CONTROL. ALL HORIZONTAL CONTROL WAS REVISED AS OF OCTOBER 25, 2012.

VERTICAL CONTROL NOTES:
ON NOVEMBER 3, 2011, A LEVEL LOOP WAS COMPLETED USING CHS BM 87N9155 AS A STARTING POINT AND LEVELLING TO "TBM", "SLIP", AND "AUTHORITY". AS A RESULTS, THE ELEVATIONS HAVE BEEN REVISED AND ARE AS NOTED ON THE PLAN.

SURVEY PLAN NOTES:
THE INFRASTRUCTURE PLAN IS A COMPOSITE OF VARIOUS SOURCE OF CURRENT AND HISTORICAL SURVEYS. ALL LINWORK IN LIGHT GRAY IS FROM HISTORICAL PWC PLAN FROM WHICH THE DATES ARE NOT KNOWN. THE TOPOGRAPHICAL SURVEYS CARRIED OUT IN 2012, 2015, 2016 & 2019 BY PWC ARE ON SEPARATE AUTOCAD LAYERS AND ARE COLORED IN ORDER TO DIFFER THE SOURCE YEAR OF THE LINWORK.

KEYED PLAN NOTES:

- 1 EXISTING STEEL SHEET PILING TO BE REMOVED AS REQUIRED TO ACHIEVE DREDGE DEPTH OF 2.5 METRES BELOW CHART DATUM IN DREDGE AREA "C" ONLY.

LEGEND

- TBM TEMPORARY BENCHMARK
- A CONTROL POINT
- HP UTILITY POLE
- MH MANHOLE
- D DERRICK
- CB CATCH BASIN
- A DREDGE COORDINATE
- DREDGE AREA "A"
- DREDGE AREA "B"
- DREDGE AREA "C"

AREA "A" DREDGE COORDINATES		
MARK	EASTING	NORTHING
A	E 272 644.346	N 5 120 423.552
B	E 272 663.097	N 5 120 407.017
C	E 272 494.578	N 5 120 253.715
D	E 272 513.318	N 5 120 237.189

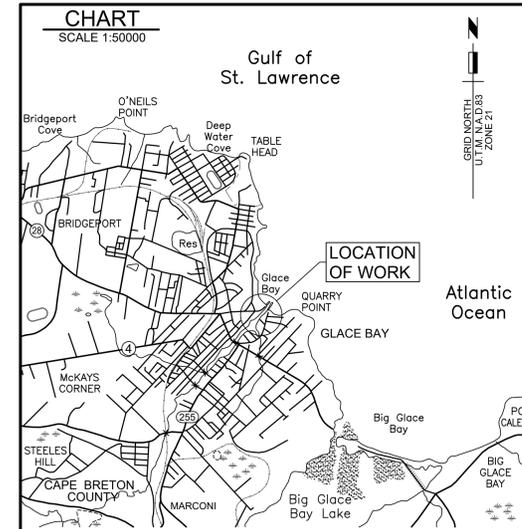
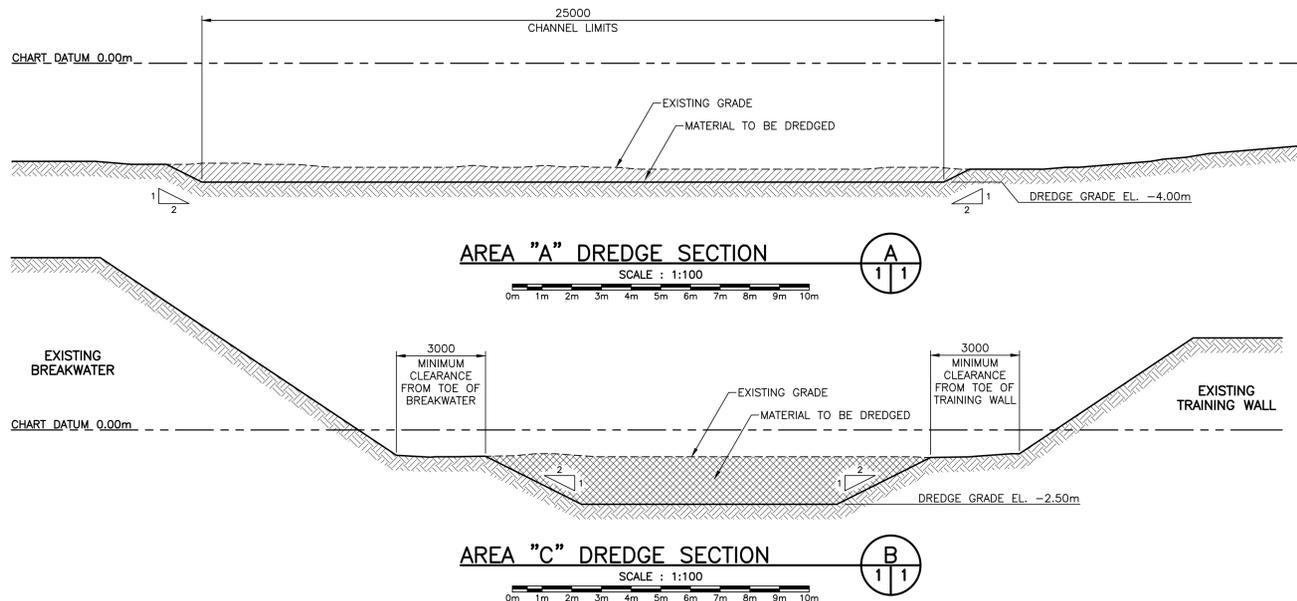
DREDGE PLAN AREA "A" AND "C"

SCALE : 1:500



CONSTRUCTION NOTES:

- THE WORK UNDER THIS CONTRACT CONSISTS OF, BUT IS NOT LIMITED TO, THE FOLLOWING:
 - DREDGING OF AREAS "A" TO 4.0 METRES, AREA "B" TO 3.0 METRES AND AREA "C" TO 2.5 METRES BELOW CHART DATUM INCLUDING SIDE SLOPES INDICATED ON SECTIONS; AND THE TRANSPORTATION AND DISPOSAL OF DREDGE MATERIAL TO DESIGNATED DISPOSAL SITE.
 - REMOVAL OF EXISTING STEEL SHEET PILING AS REQUIRED TO ACHIEVE DREDGE DEPTH OF 2.5 METRES BELOW CHART DATUM IN DREDGE AREA "C" ONLY.
- DREDGE MATERIAL TO BE DISPOSED OF AT DFO-SCH DISPOSAL FACILITY LOCATED ALONG HINCHAY AVENUE IN NEW WATERFORD (LINGAN), NS AND WILL INCLUDE THE CONSTRUCTION OF A NEW BERM AS REQUIRED USING INSITU MATERIAL.
- DREDGING OPERATIONS ARE NOT TO UNDERMINE THE EXISTING BREAKWATERS, MAINTAIN A MINIMUM 3m CLEARANCE FROM TOE OF BREAKWATERS.
- ELEVATIONS REFER TO BENCHMARK, TBM (TOP OF CURB OF PUBLIC WHARF), WHERE INDICATED ON LOCATION PLAN, WITH AN ELEVATION OF 3.07 METRES ABOVE CHART DATUM.
- GRID NORTH REFERS TO UNIVERSAL TRANSVERSE MERCATOR PROJECTION COORDINATES, NORTH AMERICAN DATUM 1983, ZONE 21.
- CHART DATUM IS, BY INTERNATIONAL AGREEMENT, A PLANE BELOW WHICH THE TIDE WILL SELDOM FALL. THE CANADIAN HYDROGRAPHIC SERVICE HAS ADOPTED THE PLANE OF LOWEST NORMAL TIDE (L.N.T.) AS CHART DATUM. AS THE RISE, FALL AND RANGE OF TIDES VARIES DAILY, THE CANADIAN TIDE AND CURRENT TABLES, AS ISSUED BY THE CANADIAN HYDROGRAPHIC SERVICE, SHOULD BE CONSULTED WITH PREDICTIONS AND OTHER TIDAL INFORMATION RELATING TO WORK.
- DREDGE SIDE SLOPES AT 1 VERTICAL TO 2 HORIZONTAL.
- PRIOR TO ANY REMOVAL/REINSTALLATION OF NAVIGATIONAL AIDS/BUOYS, CONTACT CANADIAN COAST GUARD IN CHARLOTTETOWN AT 1-902-566-7936.
- ALL DIMENSIONS SHOWN ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES. DO NOT SCALE FROM DRAWINGS, FIGURED DIMENSIONS ARE TO BE FOLLOWED.
- THE CONTRACTOR IS TO EXERCISE EXTREME CAUTION WHEN OPERATING HEAVY EQUIPMENT ON THE PUBLIC WHARF.



0	ISSUED FOR TENDER	JUNE 2021
revisions		date
project	DREDGING	project
drawing	GLACE BAY CAPE BRETON COUNTY NOVA SCOTIA	dessin
approved	DREDGE PLAN AND SECTIONS AREAS "A" AND "C"	approuvé
designed	A. DIQUINZIO	conçu
date	SEPTEMBER 2020	date
drawn	G. PROSPER	dessiné
date	SEPTEMBER 2020	date
approved		approuvé
date		date
Tender		Soumission
PWGC Project Manager	Administrateur de projets TPSC	
project number	R.112424.001	no. du projet
drawing no.	SHT 1	no. du dessin