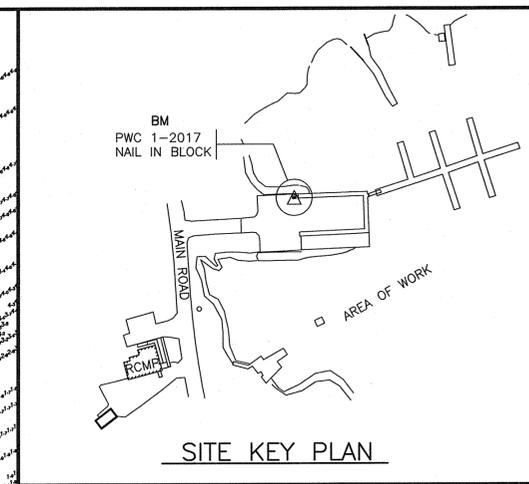




PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
 This Permit Allows
DILLON CONSULTING LIMITED
 To Practice Professional Engineering
 in Newfoundland and Labrador.
 Permit No. as issued by PEGNL D0161
 which is valid for the year 2018



- GENERAL NOTES**
- DO NOT SCALE FROM DRAWING.
 - CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE PRIOR TO PROCEEDING WITH ANY PORTION OF THIS WORK.
 - ALL DIMENSIONS IN MILLIMETERS. ALL ELEVATIONS IN METERS.

- DREDGING NOTES**
- TIMBER AND OTHER DEBRIS MAY BE IN ENCOUNTERED IN THE DREDGE AREA. TIMBER AND OTHER DEBRIS TO BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
 - SUITABLE DREDGE SPOILS TO BE USED AS FILL FOR NEW INFILL AREA. ANY EXCESS DREDGE SPOILS TO BE DISPOSED OF AT THE LANDFILL IN NORRIS ARM.

- DESIGN LOADING FOR NEW MARGINAL WHARF**
- UNIFORMLY DISTRIBUTED LIVE LOAD OF 15kPa.
 - "B1" TYPE CLEATS RATED FOR A FACTORED MOORING LINE PULL LOAD OF 50kN.
 - CL-625 DESIGN VEHICLE.

LEGEND

SYMBOLS

- ANCHOR BLOC
- BOLLARD
- BORCHOLE
- BOUNDRY MARKER
- CHAD POSITION BODY
- CATCH BASIN
- CELEST
- CLUMBER
- CONDUIT
- DREDGE CONTROL
- ELECTRICAL OUTLET
- FIRE HYDRANT
- FISH HOODING EQUIP.
- FOD HOSE
- FUEL PUMP
- H PILE
- HORIZONTAL CONTROL
- ICE PLANT
- INVERT PIPE
- JOB CRANE
- FLAG POLE
- LADDER
- LIFE RING
- LIGHT STANDARD
- MANHOLE
- MESH
- MAST/TOWER
- NAVIGATION LIGHT
- OBSERVED BODY
- OBSERVED SPAN BUOY
- PIPE PILE
- RANGE LIGHT
- SAFETY POST
- SEWER OUTFLOW PIPE
- SIGN
- TELEPHONE
- TELEPHONE POLE
- TIDE GAUGE/STAFF
- TREE
- UTILITY POLE
- VERTICAL CONTROL
- WATER VALVE
- WATER WELL
- WOOD PILE

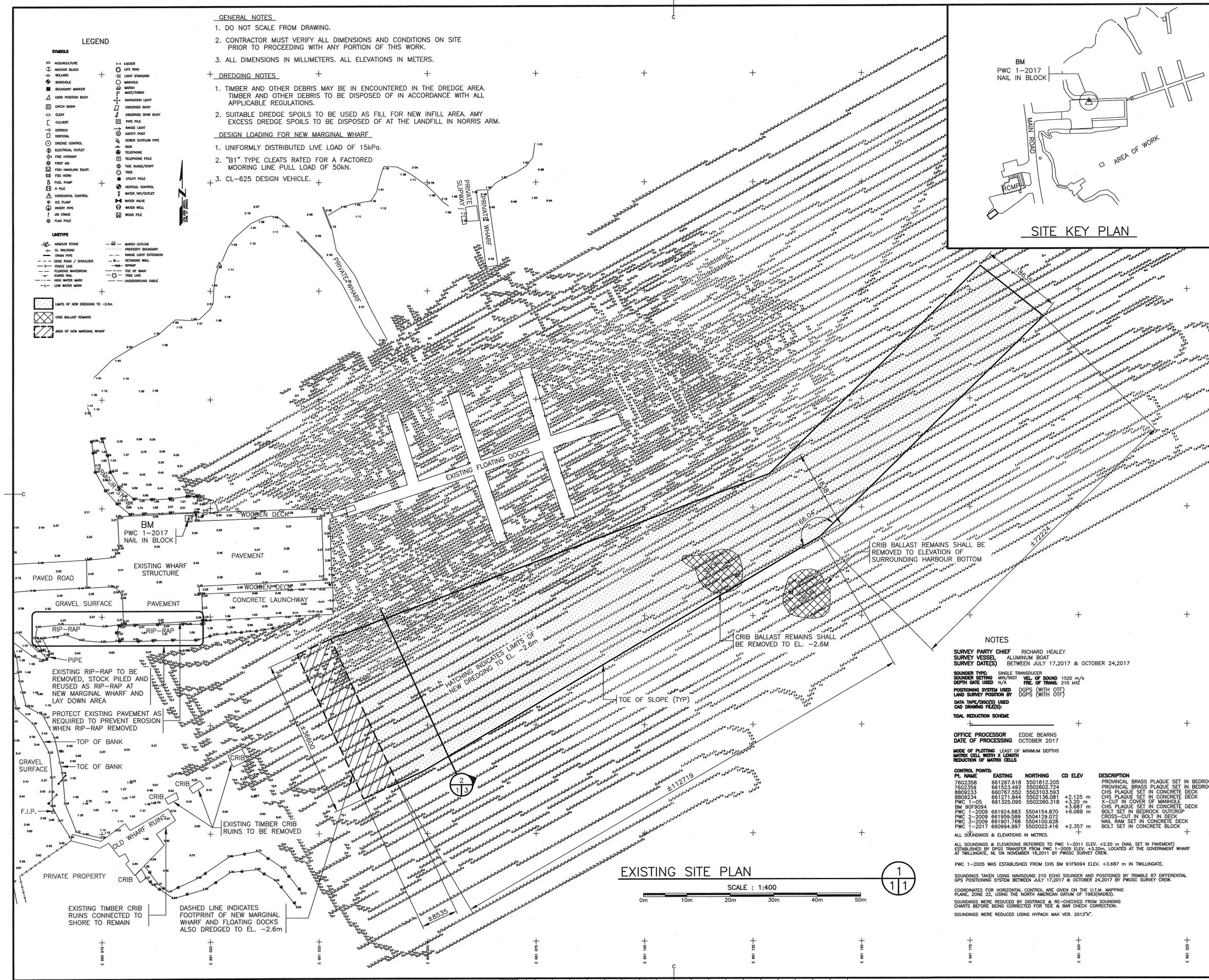
LINE TYPE

- ARMOUR STONE
- CL ROAD
- DRAIN PIPE
- EDGE ROAD / SHOULDER
- FENCE LINE
- FLOODING WATERBREAK
- GRAND PALE
- HIGH WATER MARK
- LOW WATER MARK
- MARSH OUTLINE
- PROPERTY BOUNDARY
- RANGE LIGHT EXTENSION
- RETAINING WALL
- REPAIR
- TOE OF BANK
- TREE LINE
- UNDERGROUND CABLE

LIMITS OF NEW DREDGING TO -2.6m

CRIB BALLAST REMAINS

AREA OF NEW MARGINAL WHARF



NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY VESSEL ALUMINUM BOAT
SURVEY DATE(S) BETWEEN JULY 17, 2017 & OCTOBER 24, 2017

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 OCTOBER 2017

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

PL. NAME	EASTING	NORTHING	CD ELEV.	DESCRIPTION
7602358	661267.618	5501812.205		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
7602359	661523.492	5502602.724		PROVINCIAL BRASS PLAQUE SET IN BEDROCK
8809233	660767.852	5501103.583		CHS PLAQUE SET IN CONCRETE DECK
8809234	661271.844	5502136.081	+2.125 m	CHS PLAQUE SET IN CONCRETE DECK
PWC 1-05	661325.095	5502260.318	+3.687 m	CHS PLAQUE SET IN CONCRETE DECK
BM 90F9094			+3.687 m	CHS PLAQUE SET IN CONCRETE DECK
PWC 1-2009	661924.883	5504154.870	+6.069 m	BOLT SET IN BEDROCK OUTCROP
PWC 2-2009	661959.589	5504129.072		CROSS-CUT IN BOLT IN DECK
PWC 3-2009	661901.788	5504100.628		NAIL RAM SET IN CONCRETE DECK
PWC 1-2017	660994.997	5502022.416	+2.357 m	BOLT SET IN CONCRETE BLOCK

ALL SOUNDINGS & ELEVATIONS IN METERS.

ALL SOUNDINGS & ELEVATIONS REFERRED TO PWC 1-2011 ELEV. +2.20 m (NAIL SET IN PAVEMENT) ESTABLISHED BY GPS TRANSFER FROM PWC 1-2005 ELEV. +3.30m, LOCATED AT THE GOVERNMENT WHARF AT TWILLINGATE, NL ON NOVEMBER 16, 2011 BY PWSC SURVEY CREW.

PWC 1-2005 WAS ESTABLISHED FROM CHS BM 91F9094 ELEV. +3.687 m IN TWILLINGATE.

SOUNDINGS TAKEN USING NAVSOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 DIFFERENTIAL GPS POSITIONING SYSTEM BETWEEN JULY 17, 2017 & OCTOBER 24, 2017 BY PWSC 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).
 SOUNDINGS WERE REDUCED BY DIGITRACK & RE-CHECKED FROM SOUNDING SHEETS BEFORE BEING CORRECTED FOR TIDE & BATHYMETRY CHECK CORRECTION.
 SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013.7A.

O	ISSUED FOR TENDER	JUN.14 2018
B	ISSUED FOR 90% REVIEW	MAY.18 2018
A	ISSUED FOR 50% REVIEW	APR.24 2018
revisions		date
project		project

**CP1-MARINE PHASE
 DFO FACILITY
 SAR STATION
 TWILLINGATE, NL**

**EXISTING SITE PLAN
 DEMOLITION
 DREDGING LIMITS
 AND NEW MARGINAL
 WHARF LOCATION**

designed	S.PEARCE	conçu
date	APRIL, 2018	
drawn	B. SCAPLEN	dessiné
date	APRIL, 2018	
approved		approuvé
date		
Tender	<i>Stephane Pearce</i> June 25/18	Submission
PWSC Project Manager	Administrateur de projets TPSCC	
project number	no. du projet	
	R.089926.001	
drawing no.	no. du dessin	
	MA1 OF 9	