

LIST OF DRAWINGS - LISTE DES DESSINS

600 CIVIL
CIVIL

#	DWG.	NO.	SUBJECT
1		T-1	COVER SHEET
2		T-2	GENERAL NOTES AND ABBREVIATIONS
3		T-3	EXISTING CONDITIONS
4		G-1	PHYSICAL AND GEOTECHNICAL DATA SAMPLING LOCATIONS
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SITE PLAN/VICINITY MAP
SCALE: 1:10000



DND WOOD WASTE REMEDIATION PILOT PROJECT

Esquimalt | British Columbia
Esquimalt | Columbie-Britannique
ISSUED FOR TENDER

SET NO. - SÉRIE NO.	DATE
	2019/07/24
PWGSC NO.	
	R.104793.001
WBS NO. - NO. OTR	
	N.000159.11.02
PF NO. - NO. DP	
	N/A
JOB NO.	
	170553-21.05

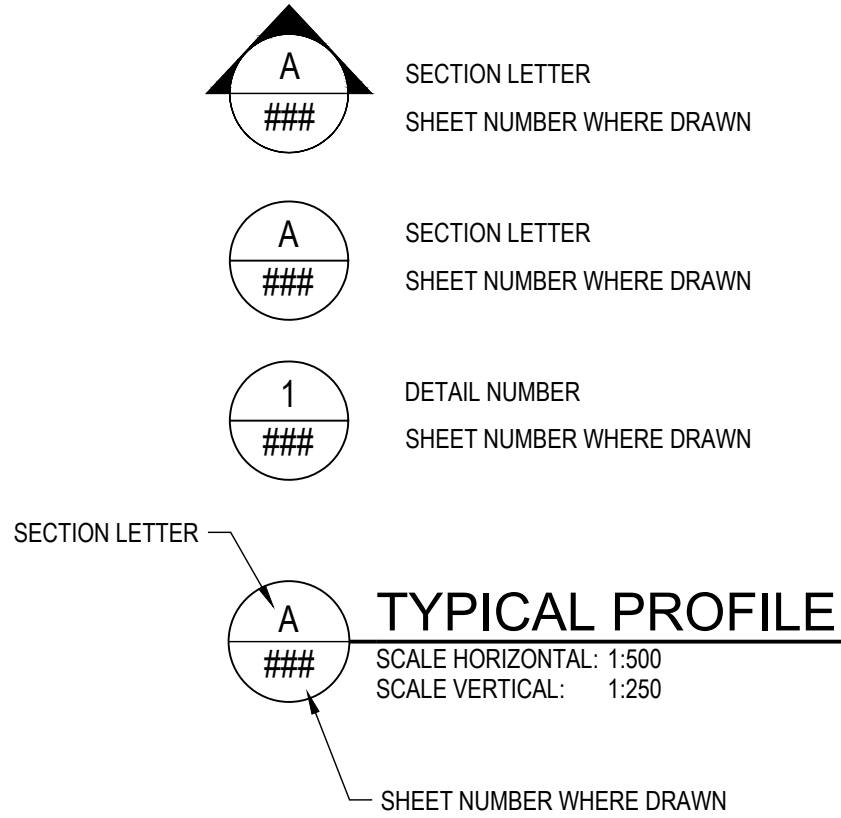
GENERAL NOTES:

- 1.1. DETAILED REQUIREMENTS FOR ACTIVITIES ARE DESCRIBED IN THE SPECIFICATIONS.
- 1.2. ELEVATIONS ARE IN METRES, CHART DATUM (CD).
- 1.3. SCALES INDICATED ON DRAWINGS ARE FULL SIZE A1 DRAWINGS. DRAWINGS ARE DEVELOPED TO BEST DISPLAY INFORMATION AT FULL SIZE FORMAT; IT IS RECOMMENDED THAT THE CONTRACTOR PRODUCE AND REVIEW DRAWINGS IN FULL SIZE FOR BASIS OF TENDER.
- 1.4. PWGSC WILL DESIGNATE A REPRESENTATIVE (TERMED THE DEPARTMENTAL REPRESENTATIVE) TO ADVISE, COORDINATE, AND MONITOR THE WORK ON BEHALF OF DND.
- 1.5. THE CONTRACTOR MUST COORDINATE ALL ACTIVITIES WITH THE DEPARTMENTAL REPRESENTATIVE. ALL TEMPORARY FACILITIES WILL BE ESTABLISHED AT AN OFF-SITE LOCATION ACCEPTED BY THE DEPARTMENTAL REPRESENTATIVE OR ON BARGES WITHIN THE WORK SITE. NO DND PROPERTY WILL BE PROVIDED FOR STAGING OR ESTABLISHMENT OF TEMPORARY FACILITIES.

ABBREVIATIONS:

(LIST SUBJECT TO MODIFICATION)	
APPR	APPROVED
BC	BRITISH COLUMBIA
CAZ	CONTROL ACCESS ZONE
CD	CHART DATUM
CFB	CANADIAN FORCES BASE
CGVD	CANADIAN GEODETIC VERTICAL DATUM
DND	DEPARTMENT OF NATIONAL DEFENCE
DWG	DRAWING
E	EASTING
EMP	ENVIRONMENTAL MANAGEMENT PLAN
GCM	GEODETIC CONTROL MONUMENT
GD	GEODETIC DATUM
H	HORIZONTAL
HHWLT	HIGHER HIGH WATER, LARGE TIDE
LLWLT	LOWER LOW WATER, LARGE TIDE
m	METRE
MAX	MAXIMUM
MIN	MINIMUM
MWL	MEAN WATER LEVEL
N	NORTHING
N/A	NOT APPLICABLE
NAD83	NORTH AMERICAN DATUM OF 1983
NO.	NUMBER
N.T.S.	NOT TO SCALE
PWGSC	PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
QHM	QUEEN'S HARBOUR MASTER
REF	REFERENCE
REQ/REQ'D	REQUIRED
REV	REVISION
TYP.	TYPICAL
UTM	UNIVERSAL TRANSVERSE MERCATOR
V	VERTICAL

IDENTIFIERS:



DATUM NOTES:

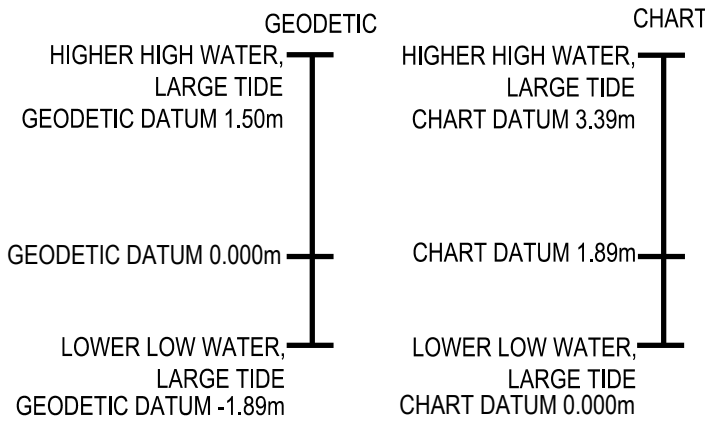
1. HORIZONTAL DATUM IS UTM ZONE 10N, NAD83
2. TIDE ELEVATIONS (GEODETIC):

HIGHER HIGH WATER, LARGE TIDE (HHWLT)

1.5m

MEAN WATER LEVEL (MWL)

0.0m
3. TO CONVERT FROM GEODETIC DATUM TO CHART DATUM, ADD 1.89m.
4. TO CONVERT FROM CHART DATUM TO GEODETIC DATUM, SUBTRACT 1.89m.



DATUM CONVERSION

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SOURCE: BATHYMETRY FROM MCCOI, DATED FEBRUARY 2019.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

0	2019/07/24	ISSUED FOR TENDER	
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NO.	DATE	REVISION	APPR.
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SCALE ÉCHELLE			
N/A			

LOCATION EMPLACEMENT			
ESQUIMALT HARBOUR			

PROJECT PROJET			
DND WOOD WASTE REMEDATION PILOT PROJECT			

TRADE MÉTIER	DATE
CIVIL/ENVIRONMENTAL	2019/07/24

SUBJECT SUJET		
GENERAL NOTES AND ABBREVIATIONS		

PRODUCTION		REVIEWED REVU	
DESIGNED ÉTUDIÉ	XX XX	DES O AGENT CONC	
K. KETTERIDGE	X.X.		
S. RODRIGUEZ		PROJ MGR GEST PROJ	
DRAWN DESSINÉ			
C. HEWETT		DES MGR GEST CONC	
CHECKED VÉRIFIÉ			
T. WANG		FIRE INCENDIE	
COORDINATION			

WBS NO. NO. OTP	PF NO. NO. DP
N.000159.11.02	N/A
DWG. NO. NO. DESSIN	

T-2



2019-07-24



SITE PLAN
SCALE: 1:5000

LEGEND:

- WORK AREA
- TEST AREA
- BATHYMETRY IN METERS (1m INTERVAL)
- JONES MARINE SERVICES LTD SITE
- FIRST NATIONS WATERLOT BOUNDARY

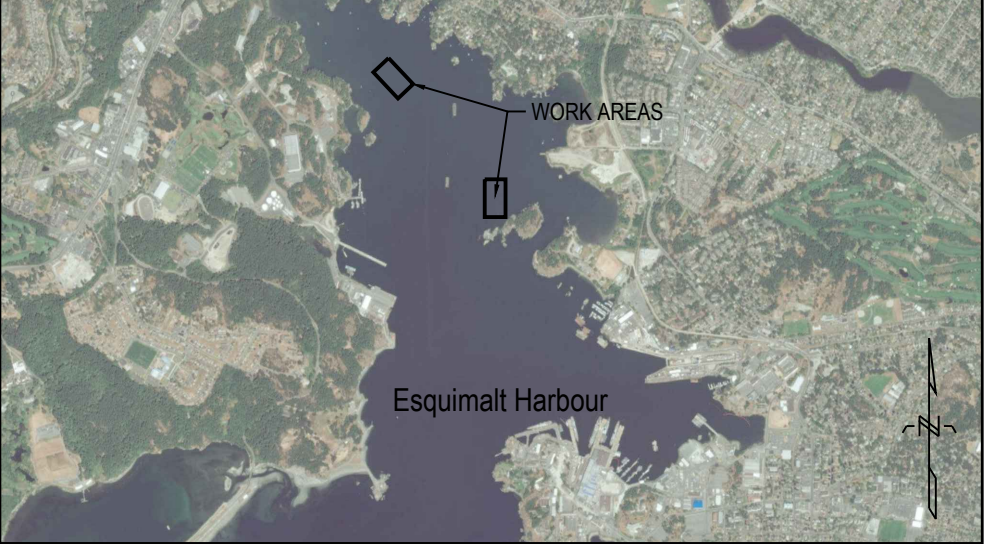


2019-07-24

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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SOURCE: BATHYMETRY FROM MCCOI, DATED FEBRUARY 2019.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
- THE PRE-CONSTRUCTION SURVEY WILL BE COMPLETED BY THE CONTRACTOR'S THIRD-PARTY SURVEYOR (PER SECTION 02 21 13 (SURVEYING AND POSITIONING CONTROL)) TO DOCUMENT BATHYMETRY CONDITIONS WITHIN THE WORK SITE IN ADVANCE OF CONDUCTING WORK. THE CONTRACTOR'S THIRD-PARTY SURVEYOR WILL ALSO PERFORM THE POST-CONSTRUCTION (FINAL) SURVEY FOLLOWING THE DEPARTMENTAL REPRESENTATIVE'S ACCEPTANCE OF THE WORK, BASED ON PROGRESS SURVEY RESULTS. THE PRE- AND POST-CONSTRUCTION SURVEYS WILL BE USED AS THE BASIS FOR MEASUREMENT AND PAYMENT OF CONTRACTOR WORK COMPLETED WITHIN THE WORK AREAS.
 - CONTRACTOR MAY PROPOSE ALTERNATE APPROACH FOR ESTABLISHING SURVEY AND POSITIONING CONTROL (E.G., CAN-NET OR OTHER) IN THE CONTRACTOR'S SURVEY AND POSITIONING CONTROL PLAN.

0	2019/07/24	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
1:5000

LOCATION | EMPLACEMENT
ESQUIMALT HARBOUR

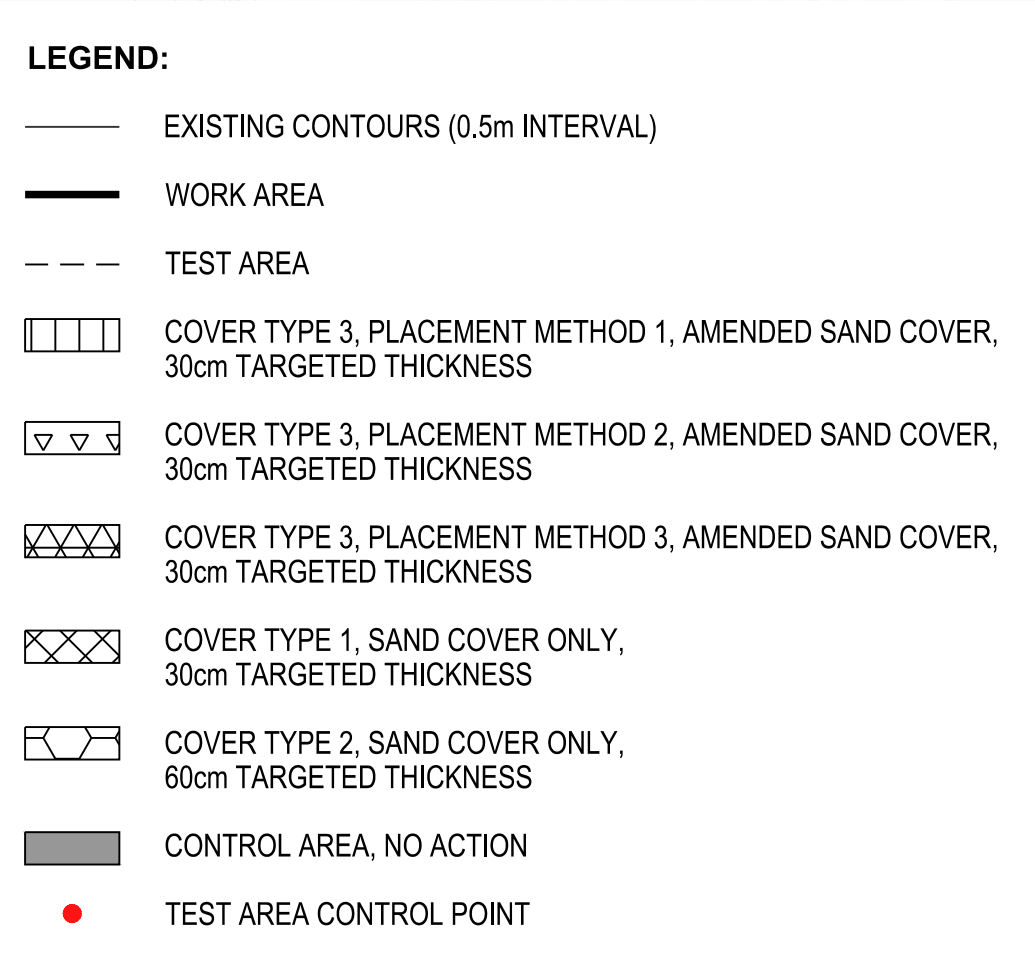
PROJECT | PROJET
DND WOOD WASTE
REMEDATION PILOT PROJECT

TRADE MÉTIER CIVIL/ENVIRONMENTAL	DATE 2019/07/24
---------------------------------------	--------------------

SUBJECT | SUJET
EXISTING CONDITIONS

PRODUCTION	REVIEWED REVU	
DESIGNED ÉTUDIÉ K. KETTERIDGE S. RODRIGUEZ	XX XX X.X.	DES O AGENT CONC
DRAWN DESSINÉ C. HEWETT		PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ T. WANG		DES MGR GEST CONC
COORDINATION		FIRE INCENDIE

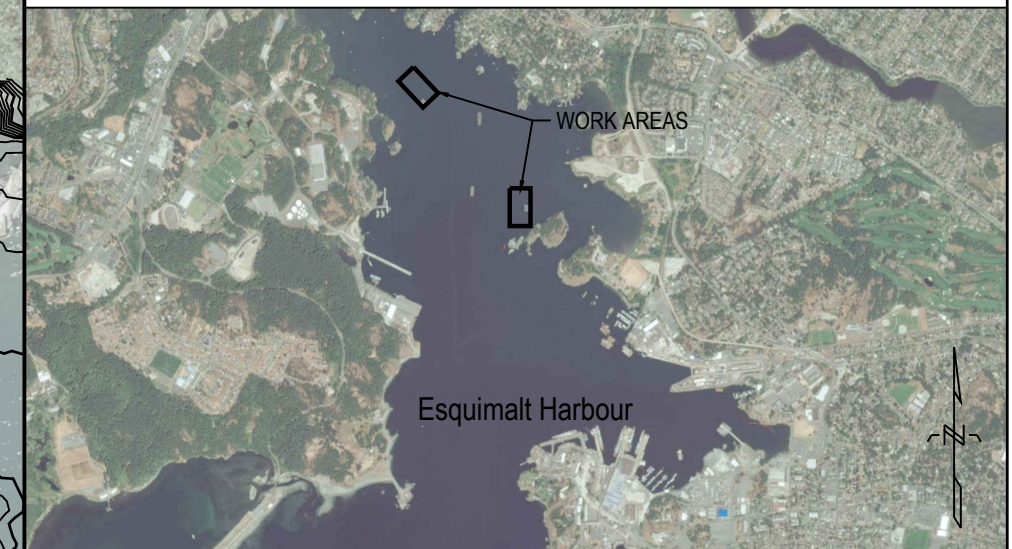
WBS NO. NO. OTP N.000159.11.02	PF NO. NO. DP N/A
DWG. NO. NO. DESSIN	T-3



TEST AREA CONTROL POINTS			
POINT #	NORTHING	EASTING	
1	5366306.01	468941.94	
2	5366484.18	468962.92	
3	5366463.60	468940.70	
4	5366485.43	468920.11	
5	5366447.81	468996.83	
6	5366425.98	467107.41	
7	5366405.40	468995.58	
8	5366427.23	468997.00	
9	5366389.61	467051.71	
10	5366367.78	467702.30	
11	5366347.20	467050.47	
12	5366369.02	467029.89	
13	5366451.12	468883.74	
14	5366429.30	468904.32	
15	5366408.71	468882.50	
16	5366340.54	468861.91	
17	5366392.92	468936.63	
18	5366371.10	468959.21	
19	5366350.51	468937.38	
20	5366372.34	468916.80	
21	5366334.72	468993.51	
22	5366312.89	467014.10	
23	5366292.31	468999.27	
24	5366314.14	468971.69	



ANCHOR
QEA



SOURCE: BATHYMETRY FROM MCCOIL DATUM FEBRUARY 2019.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).
NOTES:

1. CONTRACTOR MUST CONDUIT PLACEMENT TO THE EXTENTS SHOWN IN EACH TEST AREA AND IN ACCORDANCE WITH DETAILS ON DRAWING C-5.
2. THE CONTRACTOR MUST PLACE TYPE 3 IN TEST AREAS 1, 2 AND 3 USING PLACEMENT METHODS 1, 2, AND 3, RESPECTIVELY, PER THE SPECIFICATIONS AND IN TEST AREAS 4 AND 5 USING ANY OF THE ACCEPTABLE PLACEMENT METHODS LISTED IN THE SPECIFICATIONS, OR OTHER METHODS PROPOSED BY THE CONTRACTOR, AND ACCEPTED BY THE DEPARTMENTAL REPRESENTATIVE AS AN ALTERNATE PLACEMENT METHOD.

0	2019/07/24	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
1:1000

LOCATION | EMPLACEMENT

ESQUIMALT HARBOUR

PROJECT | PROJÉT

DND WOOD WASTE
REMEDIATION PILOT PROJECT

TRADE MÉTIER	DATE
CIVIL/ENVIRONMENTAL	2019/07/24

SUBJECT | SUJET

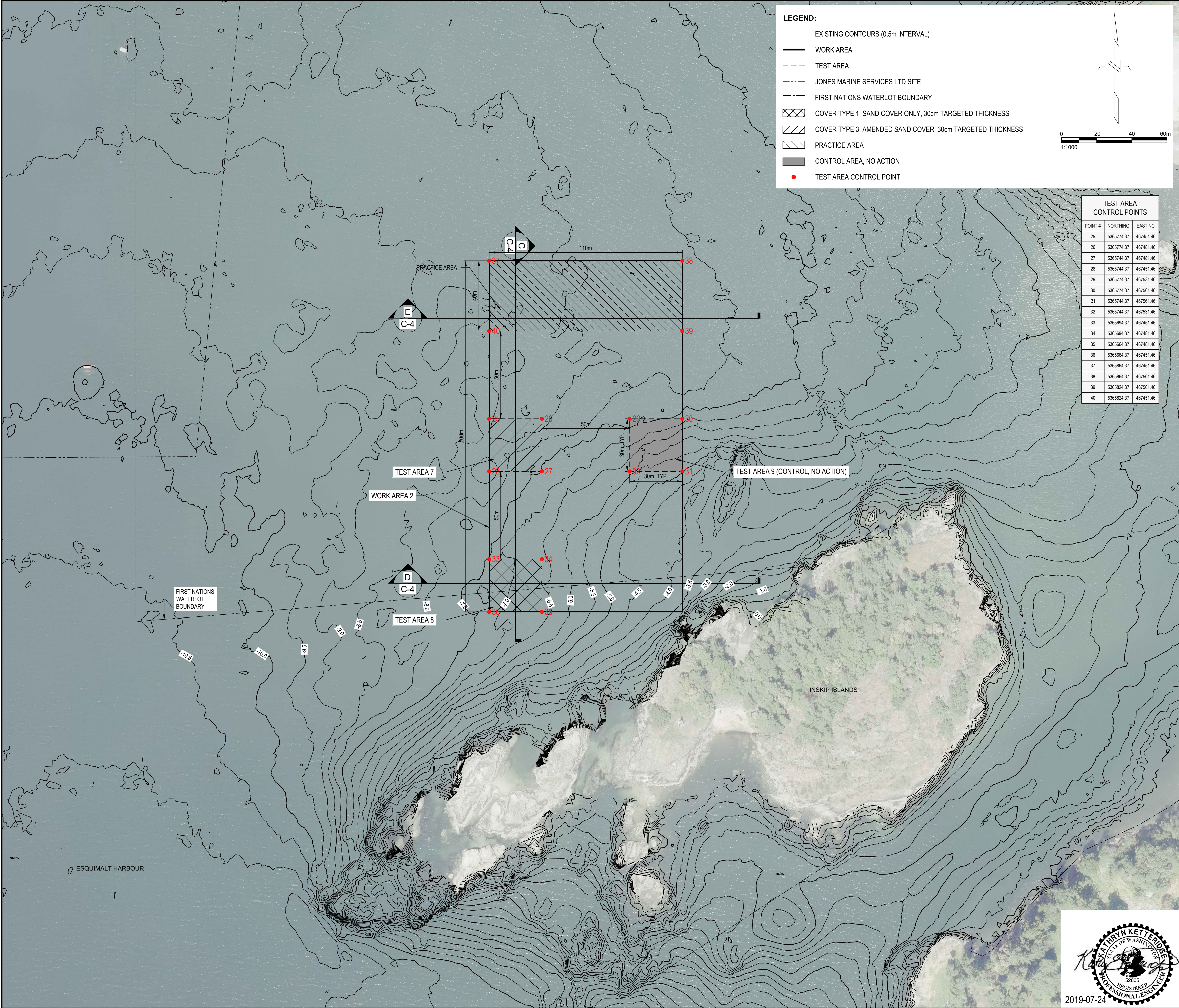
REQUIRED MATERIAL
PLACEMENT PLAN - WORK AREA 1

PRODUCTION	REVIEWED REVU	
DESIGNED ÉTUDIÉ C. KETTERIDGE S. RODRIGUEZ	XX XX X.X.	DES O AGENT CONC
DRAWN DESSINÉ C. HEWETT		PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ T. WANG		DES MGR GEST CONC
COORDINATION ---		FIRE INCENDIE

WBS NO. NO. OTP N.000159.11.02	PF NO. NO. DP N/A
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DWG. NO. NO. DESSIN	C-1
	





LEGEND:

- EXISTING CONTOURS (0.5m INTERVAL)
- WORK AREA
- TEST AREA
- JONES MARINE SERVICES LTD SITE
- FIRST NATIONS WATERLOT BOUNDARY
- COVER TYPE 1, SAND COVER ONLY, 30cm TARGETED THICKNESS
- COVER TYPE 3, AMENDED SAND COVER, 30cm TARGETED THICKNESS
- PRACTICE AREA
- CONTROL AREA, NO ACTION
- TEST AREA CONTROL POINT

TEST AREA CONTROL POINTS		
POINT #	NORTHING	EASTING
25	5365774.37	467451.46
26	5365774.37	467481.46
27	5365744.37	467481.46
28	5365744.37	467451.46
29	5365774.37	467531.46
30	5365774.37	467561.46
31	5365744.37	467561.46
32	5365744.37	467531.46
33	5365694.37	467451.46
34	5365694.37	467481.46
35	5365664.37	467481.46
36	5365664.37	467451.46
37	5365864.37	467451.46
38	5365864.37	467561.46
39	5365824.37	467561.46
40	5365824.37	467451.46

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ

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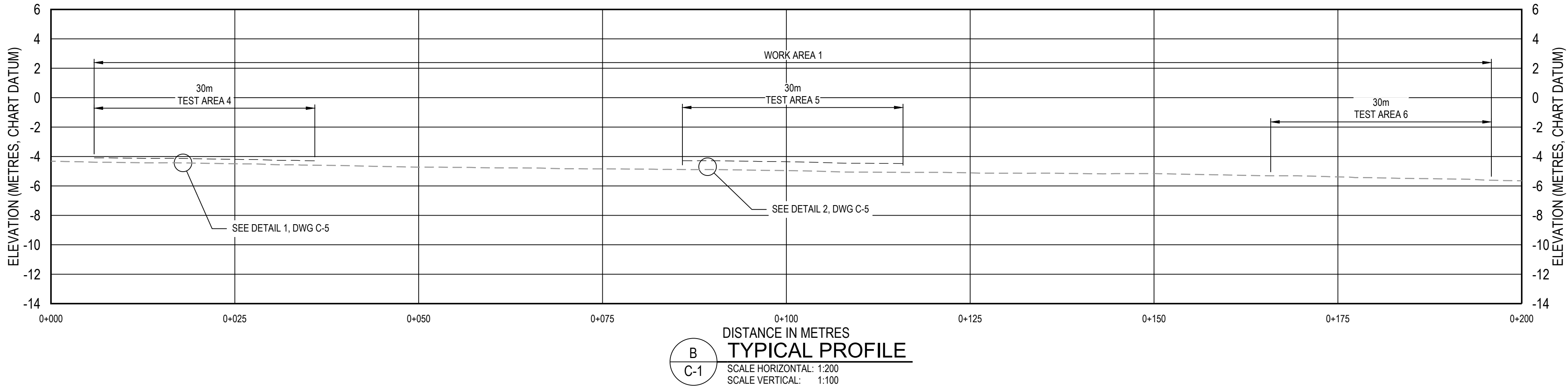
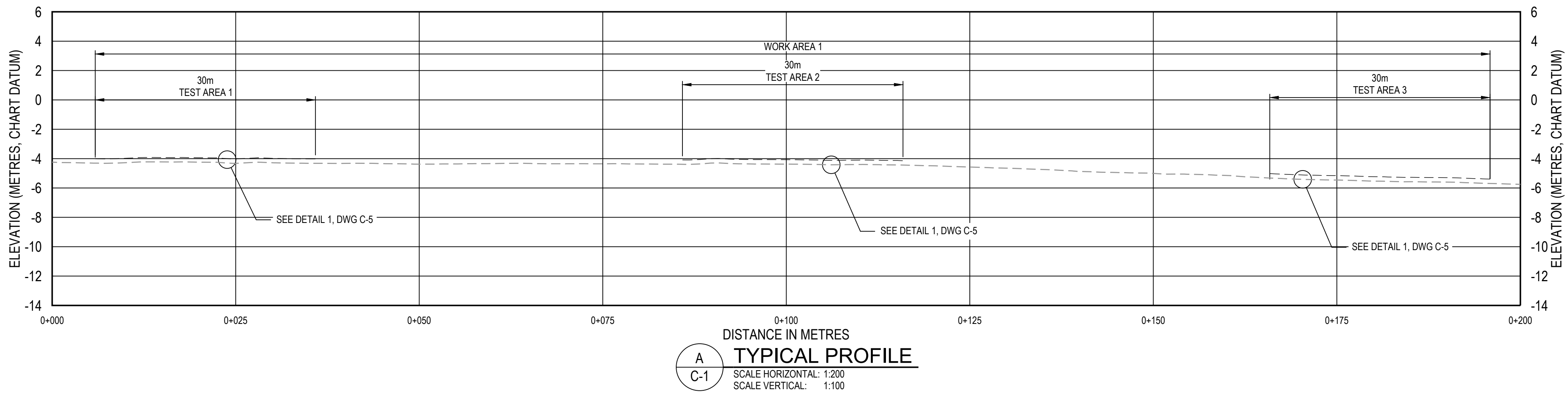
SOURCE: BATHYMETRY FROM MCCOI, DATED FEBRUARY 2019.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
- CONTRACTOR MUST CONDUCT PLACEMENT TO THE EXTENTS SHOWN IN EACH TEST AREA AND IN ACCORDANCE WITH DETAILS ON DRAWING C-5.
 - THE CONTRACTOR MUST PLACE COVER TYPES 1 AND 3 IN TEST AREAS 7 AND 8, RESPECTIVELY, USING ANY OF THE ACCEPTABLE PLACEMENT METHODS LISTED PER THE SPECIFICATIONS, OR OTHER METHODS PROPOSED BY THE CONTRACTOR, AND ACCEPTED BY THE DEPARTMENTAL REPRESENTATIVE AS AN ALTERNATE PLACEMENT METHOD.
 - ROCK MOUNDS (MATERIAL TYPE 3, WITH A 1.5-METRE TARGETED PLACEMENT HEIGHT AND 5-METRE TARGETED PLACEMENT DIAMETER) ARE REQUIRED TO BE PLACED IN TWO DISCRETE LOCATIONS WITHIN THE PRACTICE AREA (IN WORK AREA 2).
 - ROCK MOUNDS MUST BE PLACED IN AREAS WITH EXISTING BED ELEVATIONS OF -7m CD OR BELOW.

0	2019/07/24	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.
SCALE ÉCHELLE			
1:1000			
LOCATION EMPLACEMENT			
ESQUIMALT HARBOUR			
PROJECT PROJET			
DND WOOD WASTE REMEDATION PILOT PROJECT			
TRADE MÉTIER			DATE
CIVIL/ENVIRONMENTAL			2019/07/24
SUBJECT SUJET			
REQUIRED MATERIAL PLACEMENT PLAN - WORK AREA 2			
PRODUCTION		REVIEWED REVU	
DESIGNED ÉTUDIÉ K. KETTERIDGE S. RODRIGUEZ		XX XX X.X.	DES O AGENT CONC
DRAWN DESSINÉ C. HEWETT			PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ T. WANG			DES MGR GEST CONC
COORDINATION			FIRE INCENDIE
WBS NO. NO. OTP N.000159.11.02		PF NO. NO. DP N/A	
DWG. NO. NO. DESSIN		C-2	
Canada			



2019-07-24




LEGEND:

--- EXISTING SEABED ELEVATION


--- COVER (SEE DETAIL, DWG C-5)



2019-07-24



Government of Canada




Gouvernement du Canada

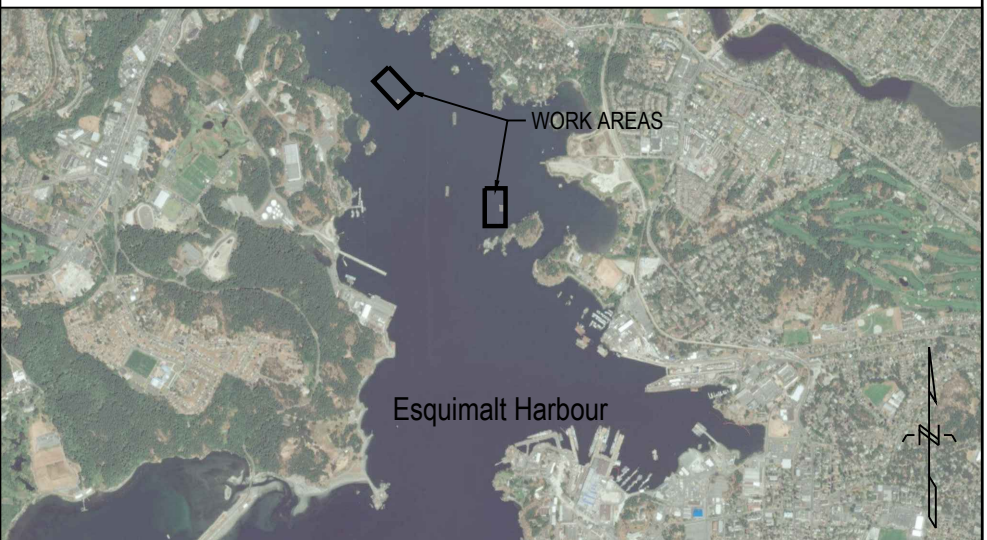
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Esquimalt Harbour

WORK AREAS

SOURCE: BATHYMETRY FROM MCCOI, DATED FEBRUARY 2019.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

NOTES:

- CONTRACTOR MUST CONDUCT PLACEMENT TO THE EXTENTS SHOWN.
- CONTRACTOR MUST NOT CONDUCT PLACEMENT OUTSIDE OF THE LATERAL EXTENT OF THE TEST AREAS AND/OR ABOVE THE VERTICAL PLACEMENT TOLERANCE. DEPARTMENTAL REPRESENTATIVE MAY DIRECT CONTRACTOR TO REMOVE EXCESSIVE OVERPLACEMENT AT NO ADDITIONAL EXPENSE TO CANADA.
- CONTRACTOR MUST TAKE INTO ACCOUNT APPROPRIATE SIDE SLOPES TO ACHIEVE THE REQUIRED TARGETED PLACEMENT THICKNESS OF COVER TYPES AS PART OF THEIR TENDER OF THE WORK.

0	2019/07/24	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE

AS NOTED

LOCATION | EMPLACEMENT

ESQUIMALT HARBOUR

PROJECT | PROJET

DND WOOD WASTE
REMEDATION PILOT PROJECT

TRADE MÉTIER	DATE
CIVIL/ENVIRONMENTAL	2019/07/24

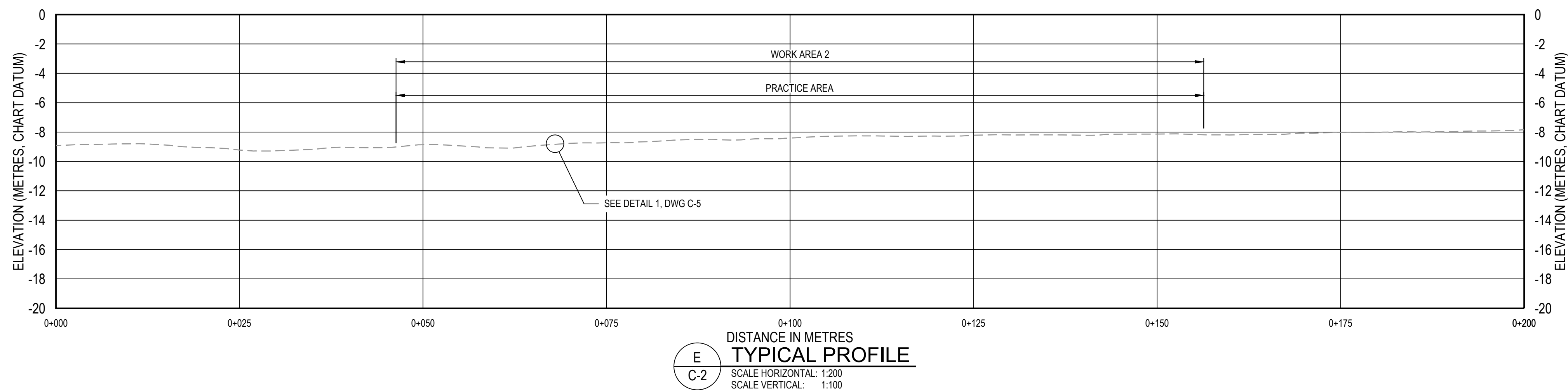
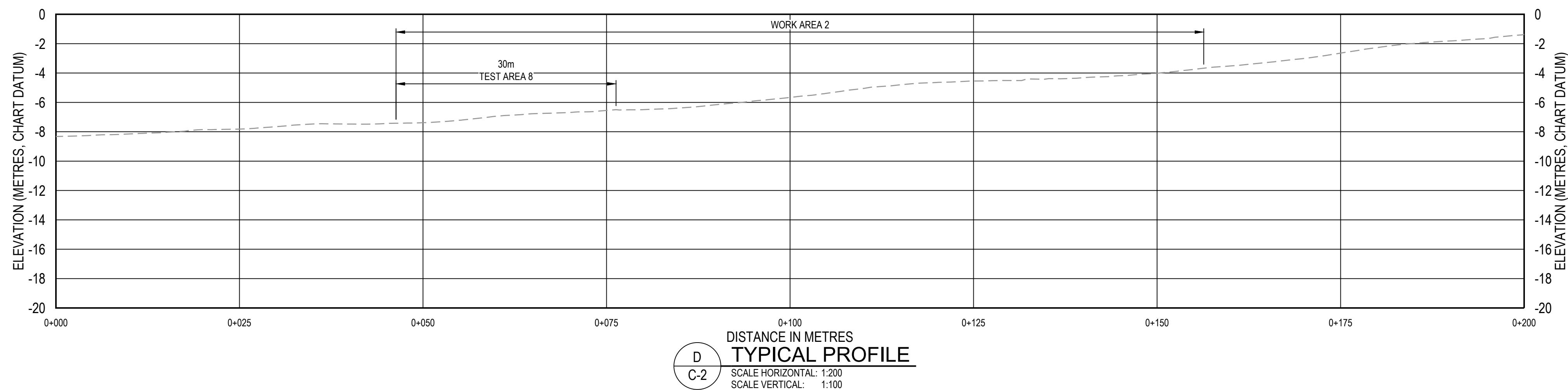
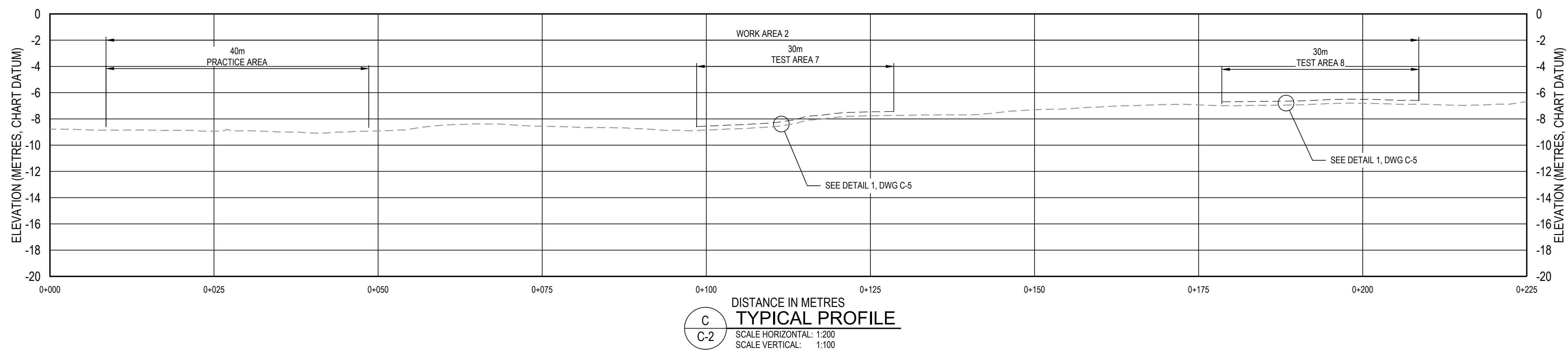
SUBJECT | SUJET

MATERIAL PLACEMENT CROSS
SECTIONS (1 OF 2)

PRODUCTION	REVIEWED REVU
DESIGNED ÉTUDIÉ K. KETTERIDGE S. RODRIGUEZ	XX XX X.X.
DRAWN DESSINÉ C. HEWETT	
CHECKED VÉRIFIÉ T. WANG	
COORDINATION	
	FIRE INCENDIE

WBS NO. NO. OTP	PF NO. NO. DP
N.000159.11.02	N/A
DWG. NO. NO. DESSIN	C-3

Canada



LEGEND:

— — — EXISTING SEABED ELEVATION

— — — COVER (SEE DETAIL, DWG C-5)

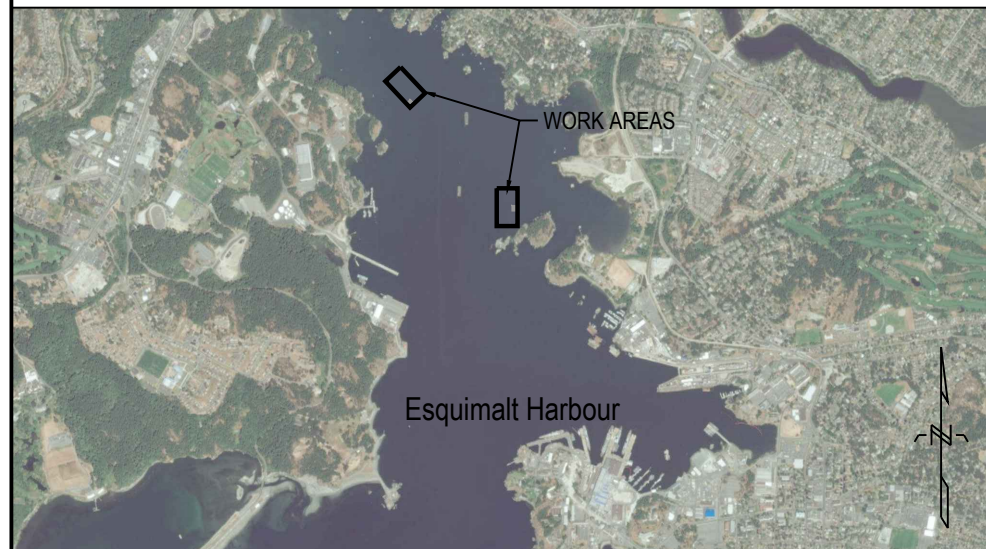


2019-07-24

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SOURCE: BATHYMETRY FROM MCCOI, DATED FEBRUARY 2019.

HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD)

VERTICAL DATUM: CHART DATUM (CD).

NOTES:

1. CONTRACTOR MUST CONDUCT PLACEMENT TO THE EXTENTS SHOWN.
2. CONTRACTOR MUST NOT CONDUCT PLACEMENT OUTSIDE OF THE LATERAL EXTENT OF THE TEST AREAS AND/OR ABOVE THE VERTICAL PLACEMENT TOLERANCE. DEPARTMENTAL REPRESENTATIVE MAY DETERMINE PLACEMENT TO REMOVE EXCESSIVE OVERPLACEMENT AT AN ADDITIONAL EXPENSE TO CANADA.
3. CONTRACTOR MUST TAKE INTO ACCOUNT APPROPRIATE SIDE SLOPES TO ACHIEVE THE REQUIRED TARGETED PLACEMENT THICKNESS OF COVER TYPES AS PART OF THEIR TENDER OF THE WORK.
4. ROCK MOUNDS (MATERIAL TYPE 3, WITH A 1.5-METRE TARGETED PLACEMENT HEIGHT AND 5-METRE TARGETED PLACEMENT DIAMETER) ARE REQUIRED TO BE PLACED IN TWO DISCRETE LOCATIONS WITHIN THE PRACTICE AREA (IN WORK AREA 2).
5. ROCK MOUNDS MUST BE PLACED IN AREAS WITH EXISTING BED ELEVATIONS OF -7m CD OR BELOW.

0	2019/07/24	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE

AS NOTED

LOCATION EMPLACEMENT

ESQUIMALT HARBOUR

PROJECT PROJET

DND WOOD WASTE REMEDIATION PILOT PROJECT

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2019/07/24

SUBJECT SUJET

MATERIAL PLACEMENT CROSS SECTIONS (2 OF 2)

PRODUCTION	REVIEWED REVU	
DESIGNED ÉTUDIÉ K. KETTERIDGE S. RODRIGUEZ	XX XX X.X.	DES O AGENT CONC
DRAWN DESSINÉ C. HEWETT		PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ T. WANG		DES MGR GEST CONC
COORDINATION ---		FIRE INCENDIE

WBS NO. | NO. OTP
N.000159.11.02

PF NO. NO. DP
N/A

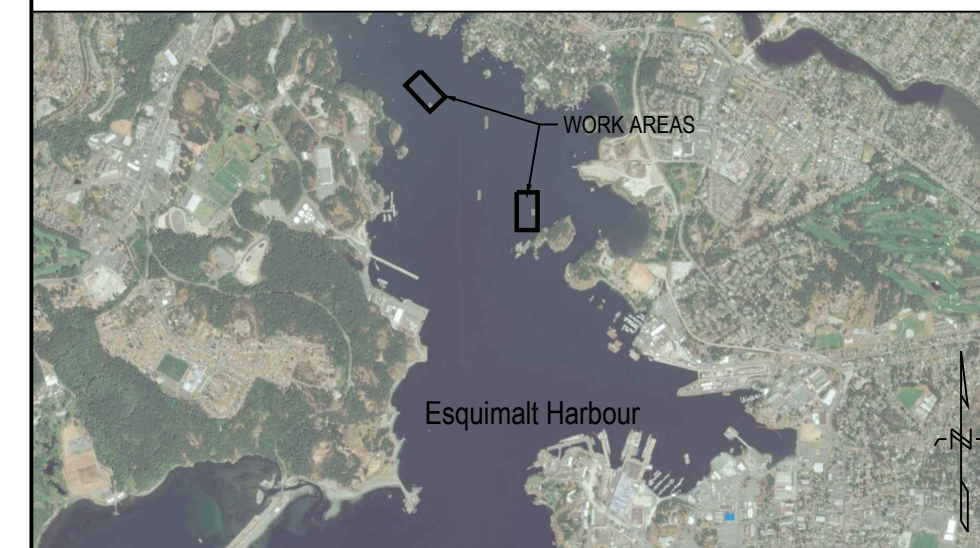
DWG. NO. | NO. DESSIN

C-4

Canada^{🇨🇦}

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SOURCE: BATHYMETRY FROM MCCOI, DATED FEBRUARY 2019

HORIZONTAL DATUM: UTM ZONE 10N, NAD83

VERTICAL DATUM: CHART DATUM (CD)

NOTES:

1. FOR TENDER PURPOSES, CONTRACTOR MUST ASSUME COVER PLACEMENT TO THE EXTENTS SHOWN FOR EACH OF THE TEST AREAS.
2. CONTRACTOR MUST PLACE COVER TO A TARGETED PLACEMENT THICKNESS OF 0.3 WITH A +/- 0.15M VERTICAL PLACEMENT TOLERANCE. THE CONTRACTOR WILL BE PAID FOR MATERIAL PLACED WITHIN THE VERTICAL PLACEMENT TOLERANCE. THE CONTRACTOR MUST ACCOUNT FOR THESE TOLERANCES IN THE TENDER ITEM FOR THE COVER MATERIAL VOLUME. CONTRACTOR MUST NOT CONDUCT PLACEMENT OUTSIDE OF THE LATERAL EXTENT OF THE TEST AREAS AND/OR ABOVE THE VERTICAL PLACEMENT TOLERANCE. DEPARTMENTAL REPRESENTATIVE MAY DIRECT CONTRACTOR TO REMOVE EXCESSIVE OVERPLACEMENT AT NO ADDITIONAL EXPENSE TO CANADA.
3. MATERIAL TYPE 2 FOR TEST AREAS 1, 2, 3, AND 7 MUST BE BLENDED WITH AMENDMENT AS REQUIRED IN SECTION 35 37 10 (MATERIAL PLACEMENT) OF THE SPECIFICATIONS.
4. PLACEMENT OF COVER TYPE 2 IN TEST AREA 5 IS AN OPTIONAL TENDER ITEM, TO BE DIRECTED BY THE DEPARTMENT REPRESENTATIVE. THIS OPTIONAL TENDER ITEM WILL BE INCLUDED AS PART OF THE TENDER PRICE EVALUATION.

0	2019/07/24	ISSUED FOR TENDER	
NO	DATE	REVISION	APP

SCALE | ÉCHELLE

AS NOTED

LOCATION | EMPLACEMENT

ESQUIMALT HARBOUR

PROJECT | PROJETO

DND WOOD WASTE REMEDIATION PILOT PROJECT

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE	2019/07/24
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SUBJECT | SUJET

MATERIAL PLACEMENT DETAILS

PRODUCTION	REVIEWED REVU	
DESIGNED ÉTUDIÉ K. KETTERIDGE S. RODRIGUEZ	XX XX X.X.	DES O AGENT CONO
DRAWN DESSINÉ C. HEWETT		PROJ MGR GEST PR
CHECKED VÉRIFIÉ T. WANG		DES MGR GEST CON
COORDINATION ---		FIRE INCENDIE

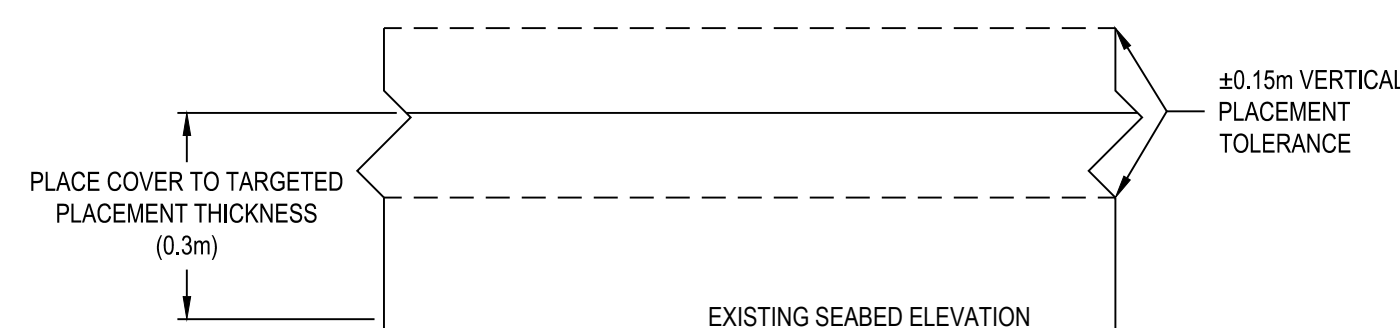
WBS NO. | NO. OTP
N.000159.11.02

PF NO. NO. DP	
N/A	

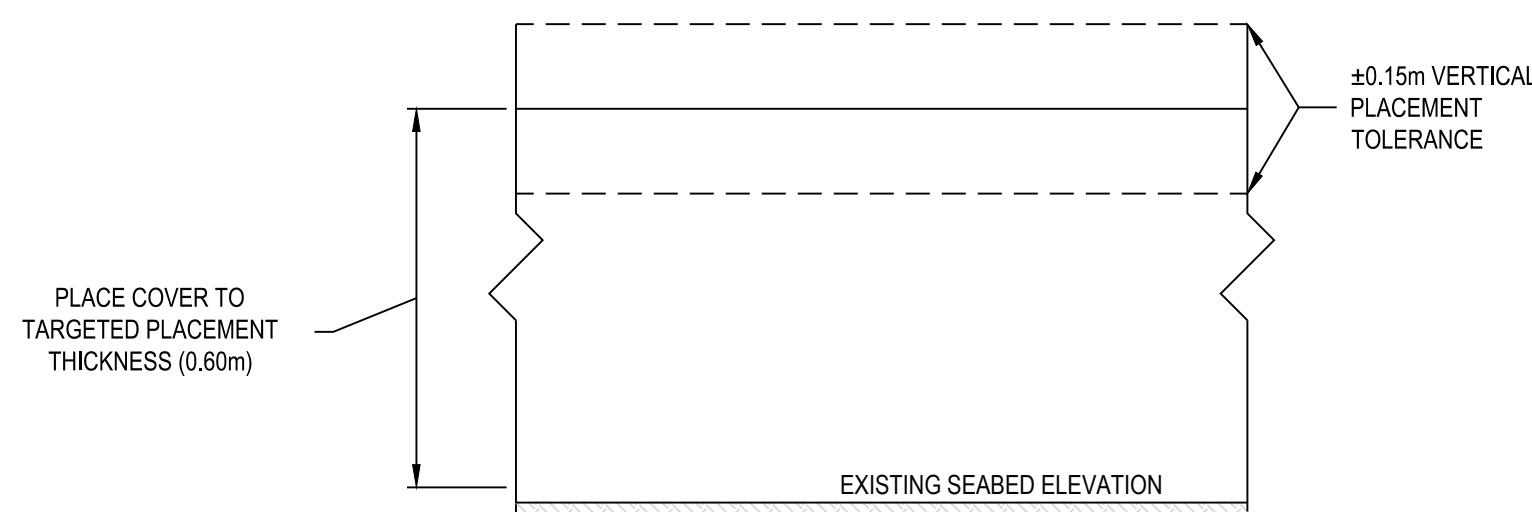
DWG. NO. | NO. DESSIN

C-5

Canada



1 COVER PLACEMENT FOR COVER TYPE 1 (TEST AREAS 4 AND 8 AND PRACTICE AREA) AND COVER TYPE 3 (TEST AREAS 1, 2, 3, AND 7)
SCALE: NTS



2 COVER PLACEMENT FOR COVER TYPE 2 (OPTIONAL TEST AREA 5)

