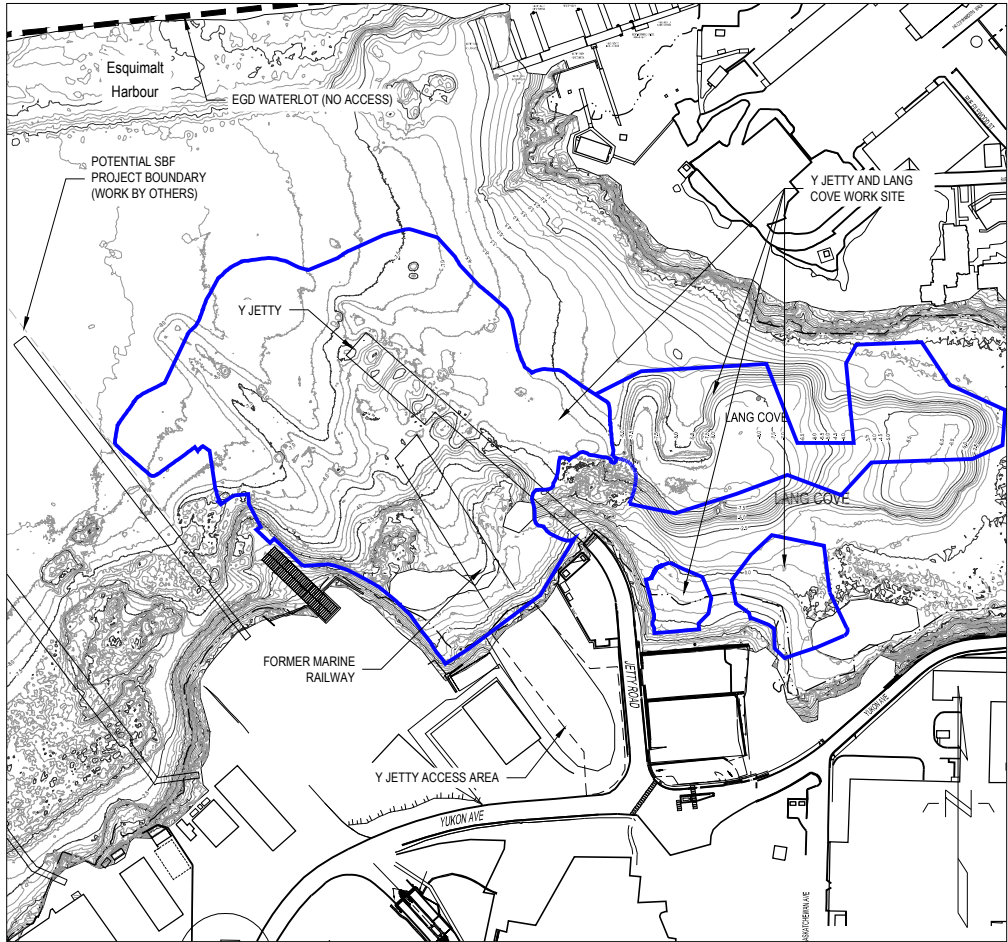




VICINITY MAP
SCALE: 1:15000



SITE PLAN
SCALE: 1:2000

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	BATHYMETRIC SURVEY INFORMATION, DATUM CONVERSIONS, AND CONTROL MONUMENTS
	4	T-4	Y JETTY ACCESS AREA
	5	G-1	EXISTING CONDITIONS
	6	G-2	REMEDIATION SEQUENCING PLAN
	7	G-3	IDENTIFIED DEBRIS, DREDGE DEBRIS, AND FORMER MARINE RAILWAY PLAN
	8	C-1	REQUIRED DREDGING PLAN
	9	C-2	DREDGING CROSS SECTIONS (1 OF 3)
	10	C-3	DREDGING CROSS SECTIONS (2 OF 3)
	11	C-4	DREDGING CROSS SECTIONS (3 OF 3)
	12	C-5	DREDGING DETAILS
	13	C-6	OFFLOADING, STOCKPILING, AND SILT CURTAIN DETAILS
	14	C-7	REQUIRED BACKFILL MATERIAL AND ENGINEERED CAPPING PLAN
	15	C-8	BACKFILL MATERIAL AND ENGINEERED CAPPING CROSS SECTIONS (1 OF 3)
	16	C-9	BACKFILL MATERIAL AND ENGINEERED CAPPING CROSS SECTIONS (2 OF 3)

DWG.	#	NO.	SUBJECT
	17	C-10	BACKFILL MATERIAL AND ENGINEERED CAPPING CROSS SECTIONS (3 OF 3)
	18	C-11	BACKFILL MATERIAL AND ENGINEERED CAPPING DETAILS (1 OF 2)
	19	C-12	BACKFILL MATERIAL AND ENGINEERED CAPPING DETAILS (2 OF 2)
	20	S-1	Y JETTY EXISTING ARRANGEMENT (1 OF 4)
	21	S-2	Y JETTY EXISTING ARRANGEMENT (2 OF 4)
	22	S-3	Y JETTY EXISTING ARRANGEMENT (3 OF 4)
	23	S-4	Y JETTY EXISTING ARRANGEMENT (4 OF 4)
	24	S-5	Y JETTY CONSTRUCTION SEQUENCE PLAN (1 OF 2)
	25	S-6	Y JETTY CONSTRUCTION SEQUENCE PLAN (2 OF 2)
	26	S-7	Y JETTY CONSTRUCTION SEQUENCE SECTIONS (1 OF 2)
	27	S-8	Y JETTY CONSTRUCTION SEQUENCE SECTIONS (2 OF 2)
	28	S-9	Y JETTY UTILITIES PLAN AND SECTIONS
	29	S-10	Y JETTY PHOTOGRAPHS (1 OF 2)
	30	S-11	Y JETTY PHOTOGRAPHS (2 OF 2)
	31	E-1	Y JETTY ELECTRICAL UTILITIES PLAN AND SECTIONS
	32	E-2	Y JETTY ELECTRICAL UTILITIES PHOTOGRAPHS



720 OLIVE WAY, SUITE 1900
SEATTLE, WASHINGTON 98101
PHONE: 1 (206) 287-9130



2955 VIRTUAL WAY #500
VANCOUVER, BRITISH COLUMBIA V5M 4X6
PHONE: 1 (604) 669-3800

SET NO. - SÉRIE NO.	DATE
	2018-08-02
PWGSC NO.	R.097231.001
WBS NO. - NO. OTR	L-23
PF NO. - NO. DP	N/A
JOB NO.	170553-11.02

EHRP PHASE 2C AND 2D Y JETTY AND LANG COVE

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

GENERAL NOTES:

- 1.1.

DETAILED REQUIREMENTS FOR ACTIVITIES ARE DESCRIBED IN THE SPECIFICATIONS.
- 1.2.

ELEVATIONS ARE IN METRES, CHART DATUM (CD).
- 1.3.

FOR TIDE ELEVATIONS, MONUMENT INFORMATION AND DATUM CONVERSIONS, SEE DRAWING T-3.
- 1.4.

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.
- 1.5.

PWGSC WILL DESIGNATE A REPRESENTATIVE (TERMED THE DEPARTMENTAL REPRESENTATIVE) TO ADVISE, COORDINATE, AND MONITOR THE WORK ON BEHALF OF DND.
- 1.6.

THE CONTRACTOR MUST COORDINATE ALL ACTIVITIES WITH THE DEPARTMENTAL REPRESENTATIVE.
- 1.7.

CONTRACTOR MUST RETAIN OR REINSTATE ALL UTILITIES NOT SPECIFIED AS PROJECT WORK.
- 1.8.

THE WORK IS TO BE PERFORMED ON AN OPERATIONAL CFB ESQUIMALT BASE AND NO OPERATIONS ARE TO BE IMPACTED BY THE PROJECT, UNLESS OTHERWISE DESCRIBED IN THESE CONTRACT DOCUMENTS.
- 1.9.

ACTIVE VESSEL OPERATIONS BY DND MAY BE PRESENT DURING PERFORMANCE OF THE WORK. CONTRACTOR TO NOT INTERFERE WITH ANY CFB ESQUIMALT VESSEL TRAFFIC, UNLESS OTHERWISE DESCRIBED IN THESE CONTRACT DOCUMENTS.
- 1.10.

CONTRACTOR MUST COMPLETE PRE-CONSTRUCTION BATHYMETRIC SURVEY TO MEET BATHYMETRY COLLECTION REQUIREMENTS DESCRIBED IN SECTION 02 21 13 - SURVEYING AND POSITIONING CONTROL.
- 1.11.

THE BOUNDARY SHOWN ON THE "AREA OF RESPONSIBILITY" FIGURE TO THE RIGHT REPRESENTS THE LIMIT OF WHERE THE CONTRACTOR PROCESSING FACILITY MAY BE LOCATED.
- 1.12.

MARINE TRAFFIC MOVEMENT WITHIN ESQUIMALT HARBOUR IS CONTROLLED BY QUEEN'S HARBOUR MASTER (QHM). QHM HAS SOLE AUTHORITY CONCERNING ALL MATTERS RELATED TO MARINE TRAFFIC CONTROL. CONTRACTOR IS TO COORDINATE WITH QHM THE MOVEMENT OF ALL MARINE EQUIPMENT AND VESSELS EMPLOYED IN THE CONSTRUCTION. CONTRACTOR MUST ADHERE TO ALL ESQUIMALT HARBOUR PRACTICES AND PROCEDURES.
- 1.13.

THE WORK SITE IS LOCATED IN THE DESIGNATED CONTROL ACCESS ZONE (CAZ) WITHIN ESQUIMALT HARBOUR.
- 1.14.

DURING ALL IN-WATER OPERATIONS, A TRAILING TUG MUST BE REQUIRED FOR ANY TOWED VESSEL PROCEEDING EAST OF A LINE DRAWN BETWEEN ASHE HEAD AND GRANT KNOLL OR WORKING IN OR EXITING FROM CONSTANCE COVE AS SHOWN ON THE VICINITY MAP ON DRAWING T-1. TOWING VESSELS ARE RESPONSIBLE FOR THEIR TOW, IN ALL CONDITIONS, AND MUST ENSURE THAT SUFFICIENT ASSETS ARE EMPLOYED TO ACCOUNT FOR ALL CONTINGENCIES THAT MAY ARISE. CONTRACTOR MUST ADHERE TO ALL ESQUIMALT HARBOUR PRACTICES AND PROCEDURES.
- 1.15.

DIMENSIONS, LAYOUT, AND DETAILS OF EXISTING STRUCTURES ARE BASED ON DRAWINGS OBTAINED FROM DND AND MAY BE SUBJECT TO CONSTRUCTION VARIATIONS AND MODIFICATIONS. THE CONTRACTOR MUST VERIFY DIMENSIONS AND CONFIGURATION PRIOR TO ANY DEMOLITION AND REMOVAL AND BRING ANY DISCREPANCIES OR POTENTIAL CONFLICTS TO THE ATTENTION OF THE DEPARTMENTAL REPRESENTATIVE. REFERENCE DRAWINGS ARE LISTED IN THE SPECIFICATIONS.
- 1.16.

DND MAKES AVAILABLE FOR THE CONTRACTOR THE Y JETTY ACCESS AREA SHOWN ON DRAWING T-4. UTILITY DROP LOCATIONS SHOULD BE COORDINATED WITH THE DEPARTMENTAL REPRESENTATIVE, IF NECESSARY.
- 1.17.

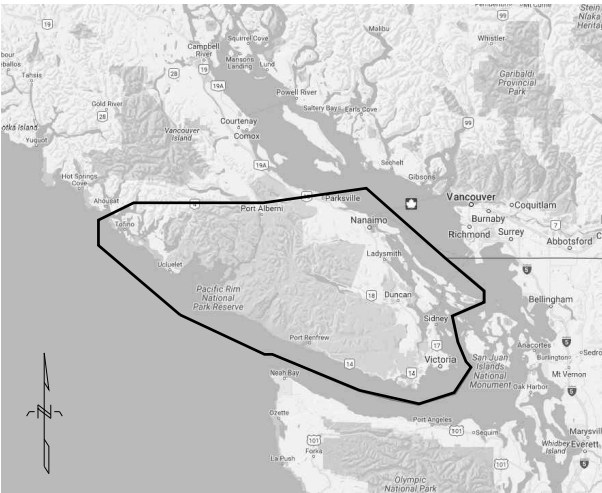
CONTRACTOR MUST MAINTAIN A 120m OFFSET FROM ALL DND ASSETS (I.E. JETTIES AND MOORED VESSELS) WHEN TRANSITING VESSELS OUTSIDE OF THE WORK SITE AS SHOWN ON DRAWING T-1.
- 1.18.

IDENTIFIED EXTENTS OF BEDROCK DETERMINED BASED ON SURVEYS PERFORMED TO DATE. ADDITIONAL BEDROCK MAY BE PRESENT IN THE Y JETTY AND LANG COVE WORK SITE THAT WAS NOT IDENTIFIED BY THE SURVEYS.

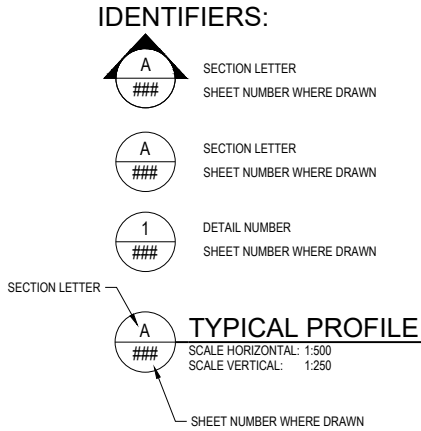
ABBREVIATIONS:

(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
DU	DREDGE UNIT
DWG	DRAWING
E	EASTING
EGD	ESQUIMALT GRAVING DOCK
EHRP	ESQUIMALT HARBOUR REMEDIATION PROJECT
EMP	ENVIRONMENTAL MONITORING PROGRAM
GD	GEODETIC DATUM
H	HORIZONTAL
HHWLT	HIGHER HIGH WATER, LARGE TIDE
LLWLT	LOWER LOW WATER, LARGE TIDE
m	METRE(S)
MAX	MAXIMUM
MIN	MINIMUM
MWL	MEAN WATER LEVEL
N	NORTHING
N/A	NOT APPLICABLE
NO.	NUMBER
N.T.S.	NOT TO SCALE
PWGSC	PUBLIC WORKS GOVERNMENT SERVICES CANADA
QHM	QUEEN'S HARBOUR MASTER
REF	REFERENCE
REQ/REQ'D	REQUIRED
REV	REVISION
SBF	SMALL BOAT FLOATS
TYP.	TYPICAL
UTM	UNIVERSAL TRANSVERSE MERCATOR
V	VERTICAL
X	EASTING
Y	NORTHING



AREA OF RESPONSIBILITY FOR DND'S EXPLOSIVE ORDNANCE DISPOSAL TEAM BASED AT THE FLEET DIVING UNIT (PACIFIC)
MAP SOURCE: GOOGLE



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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

NO.	DATE	REVISION	APPR.
0	2018-08-02	ISSUED FOR TENDER	

SCALE | ÉCHELLE
1:2000

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE MÉTIER CIVIL/ENVIRONMENTAL	DATE 2018-08-02
---------------------------------------	--------------------

SUBJECT | SUJET
GENERAL NOTES AND ABBREVIATIONS

PRODUCTION	REVIEWED REVU	
DESIGNED ÉTUDIÉ R. PICKERING	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 L-23	PF NO. NO. DP R.097231.001
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DWG. NO. NO. DESSIN	T-2
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DATUM NOTES:

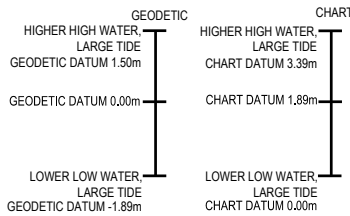
1. TIDE ELEVATIONS (GEODETIC):

HIGHER HIGH WATER, LARGE TIDE (HHWLT) 1.5m

MEAN WATER LEVEL (MWL) 0.0m

2. TO CONVERT FROM GEODETIC DATUM TO CHART DATUM, ADD 1.89m.

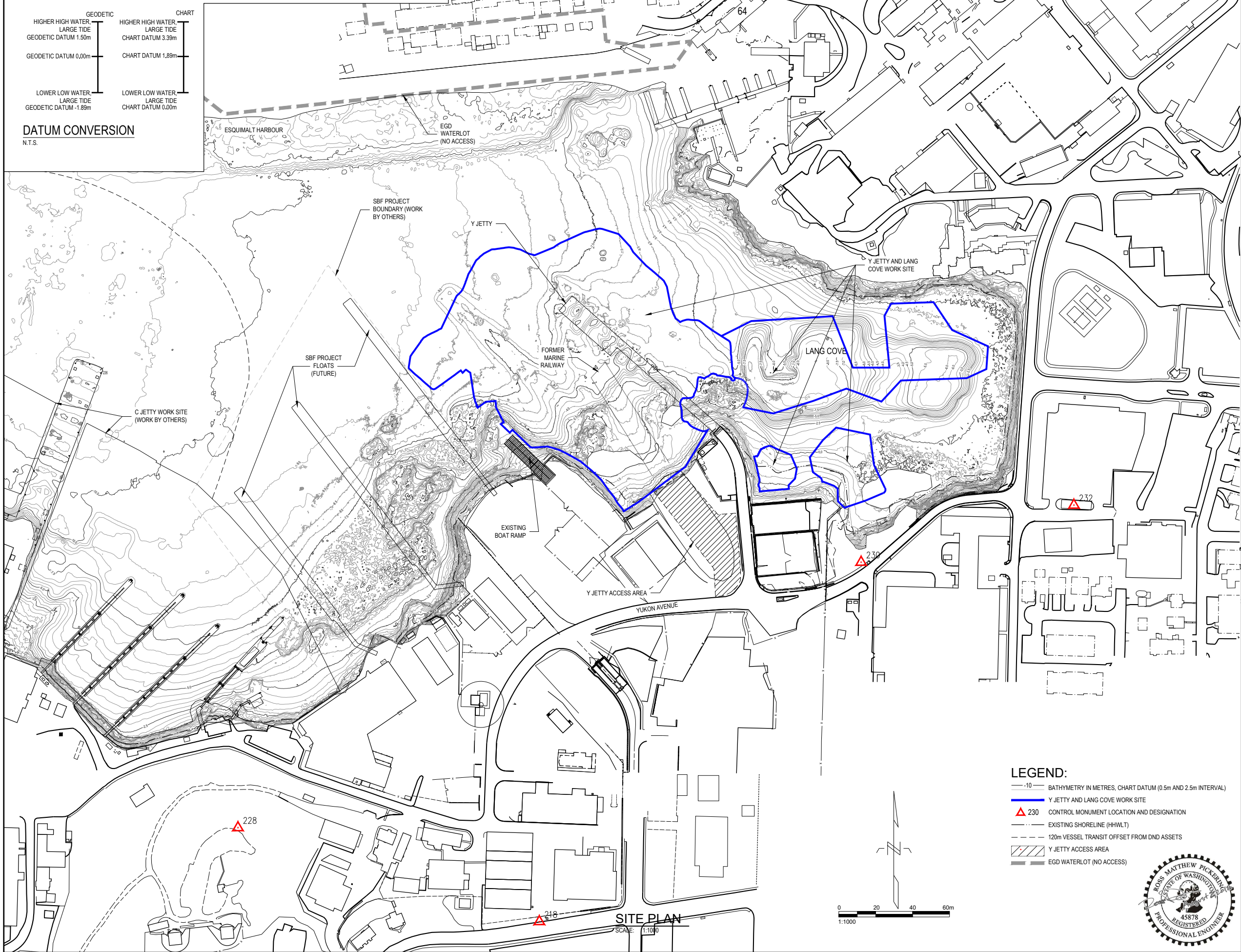
3. TO CONVERT FROM CHART DATUM TO GEODETIC DATUM, SUBTRACT 1.89m.



DATUM CONVERSION

N.T.S.

CONTROL MONUMENT TABLE			
POINT	EASTING	NORTHING	ELEVATION (METRES, CHART DATUM)
218	468524.64	5364102.60	11.25
228	468279.55	5364179.02	34.13
230	468786.35	5364394.84	10.21
232	468959.38	5364441.25	8.96



LEGEND:

- 10 — BATHYMETRY IN METRES, CHART DATUM (0.5m AND 2.5m INTERVAL)
- Y JETTY AND LANG COVE WORK SITE
- ▲ 230 CONTROL MONUMENT LOCATION AND DESIGNATION
- EXISTING SHORELINE (HHWLT)
- 120m VESSEL TRANSIT OFFSET FROM DND ASSETS
- Y JETTY ACCESS AREA
- EGD WATERLOT (NO ACCESS)



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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
- BATHYMETRIC DATA ARE MISSING FROM SOME PORTIONS OF THE WORK SITE AS SHOWN, CONTRACTOR MUST CONDUCT PRE-CONSTRUCTION SURVEY PER SPECIFICATIONS TO VERIFY AND DOCUMENT ALL WORK SITE BATHYMETRY.
 - CONTROL MONUMENTS PROVIDED BY DND.
 - 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.

NO.	DATE	REVISION	APPR.
0	2018-08-02	ISSUED FOR TENDER	

SCALE | ÉCHELLE
1:1500
LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL
DATE
2018-08-02

SUBJECT | SUJET
BATHYMETRIC SURVEY INFORMATION,
DATUM CONVERSIONS, AND CONTROL
MONUMENTS

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

WBS NO. NO. OTP L-23	PF NO. NO. DP R.097231.001
DWG. NO. NO. DESSIN	T-3




LEGEND:

→ CONTRACTOR ACCESS ROUTE

▨ Y JETTY ACCESS AREA

Y JETTY ACCESS AREA
SCALE: 1:1000






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Esquimalt Harbour
Approximate Project Area

SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015. AERIAL IMAGE FROM ESRI.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).
NOTES:

- CONTRACTOR MUST FOLLOW ALL CFB-ESQUIMALT SECURITY PROCEDURES IDENTIFIED IN THE SPECIFICATIONS.
- ALL DREDGED/EXCAVATED MATERIAL REMOVED FROM WITHIN THE WORK SITE MUST LEAVE THE WORK SITE BY IN-WATER TRANSPORTATION PER THE SPECIFICATIONS.

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
1:1000

LOCATION | EMPLACEMENT
**Y JETTY AND LANG COVE
CFB ESQUIMALT**

PROJECT | PROJET
**EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018-08-02

SUBJECT | SUJET
Y JETTY ACCESS AREA


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

WBS NO. | NO. OTP
L-23

PF NO. | NO. DP
R.097231.001

DWG. NO. | NO. DESSIN

T-4



BORDER LAST UPDATED 2012-04-01

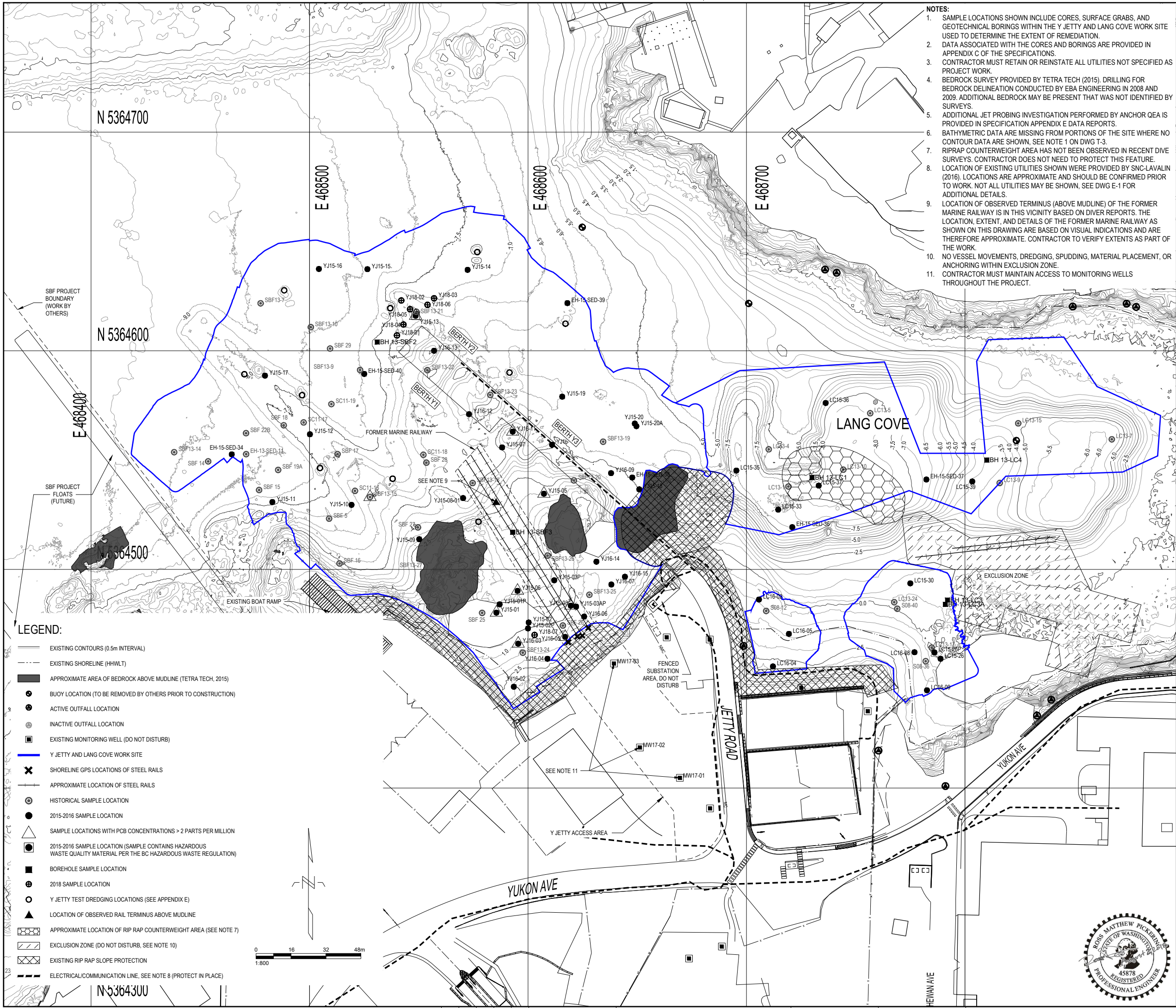
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T-4


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Sheet 4 of 32



- NOTES:
1. SAMPLE LOCATIONS SHOWN INCLUDE CORES, SURFACE GRABS, AND GEOTECHNICAL BORINGS WITHIN THE Y JETTY AND LANG COVE WORK SITE USED TO DETERMINE THE EXTENT OF REMEDIATION.
 2. DATA ASSOCIATED WITH THE CORES AND BORINGS ARE PROVIDED IN APPENDIX C OF THE SPECIFICATIONS.
 3. CONTRACTOR MUST RETAIN OR REINSTATE ALL UTILITIES NOT SPECIFIED AS PROJECT WORK.
 4. BEDROCK SURVEY PROVIDED BY TETRA TECH (2015). DRILLING FOR BEDROCK DELINEATION CONDUCTED BY EBA ENGINEERING IN 2008 AND 2009. ADDITIONAL BEDROCK MAY BE PRESENT THAT WAS NOT IDENTIFIED BY SURVEYS.
 5. ADDITIONAL JET PROBING INVESTIGATION PERFORMED BY ANCHOR QEA IS PROVIDED IN SPECIFICATION APPENDIX E DATA REPORTS.
 6. BATHYMETRIC DATA ARE MISSING FROM PORTIONS OF THE SITE WHERE NO CONTOUR DATA ARE SHOWN. SEE NOTE 1 ON DWG T-3.
 7. RIPRAP COUNTERWEIGHT AREA HAS NOT BEEN OBSERVED IN RECENT DIVE SURVEYS. CONTRACTOR DOES NOT NEED TO PROTECT THIS FEATURE.
 8. LOCATION OF EXISTING UTILITIES SHOWN WERE PROVIDED BY SNC-LAVALIN (2016). LOCATIONS ARE APPROXIMATE AND SHOULD BE CONFIRMED PRIOR TO WORK. NOT ALL UTILITIES MAY BE SHOWN. SEE DWG E-1 FOR ADDITIONAL DETAILS.
 9. LOCATION OF OBSERVED TERMINUS (ABOVE MUDLINE) OF THE FORMER MARINE RAILWAY IS IN THIS VICINITY BASED ON DIVER REPORTS. THE LOCATION, EXTENT, AND DETAILS OF THE FORMER MARINE RAILWAY AS SHOWN ON THIS DRAWING ARE BASED ON VISUAL INDICATIONS AND ARE THEREFORE APPROXIMATE. CONTRACTOR TO VERIFY EXTENTS AS PART OF THE WORK.
 10. NO VESSEL MOVEMENTS, DREDGING, SPUDDING, MATERIAL PLACEMENT, OR ANCHORING WITHIN EXCLUSION ZONE.
 11. CONTRACTOR MUST MAINTAIN ACCESS TO MONITORING WELLS THROUGHOUT THE PROJECT.





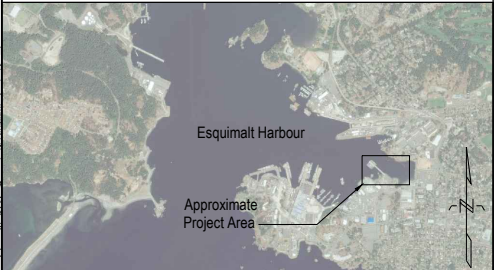
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Esquimalt Harbour
Approximate Project Area

SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015. DRILLING FOR BEDROCK DELINEATION CONDUCTED BY EBA ENGINEERING, DATED 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

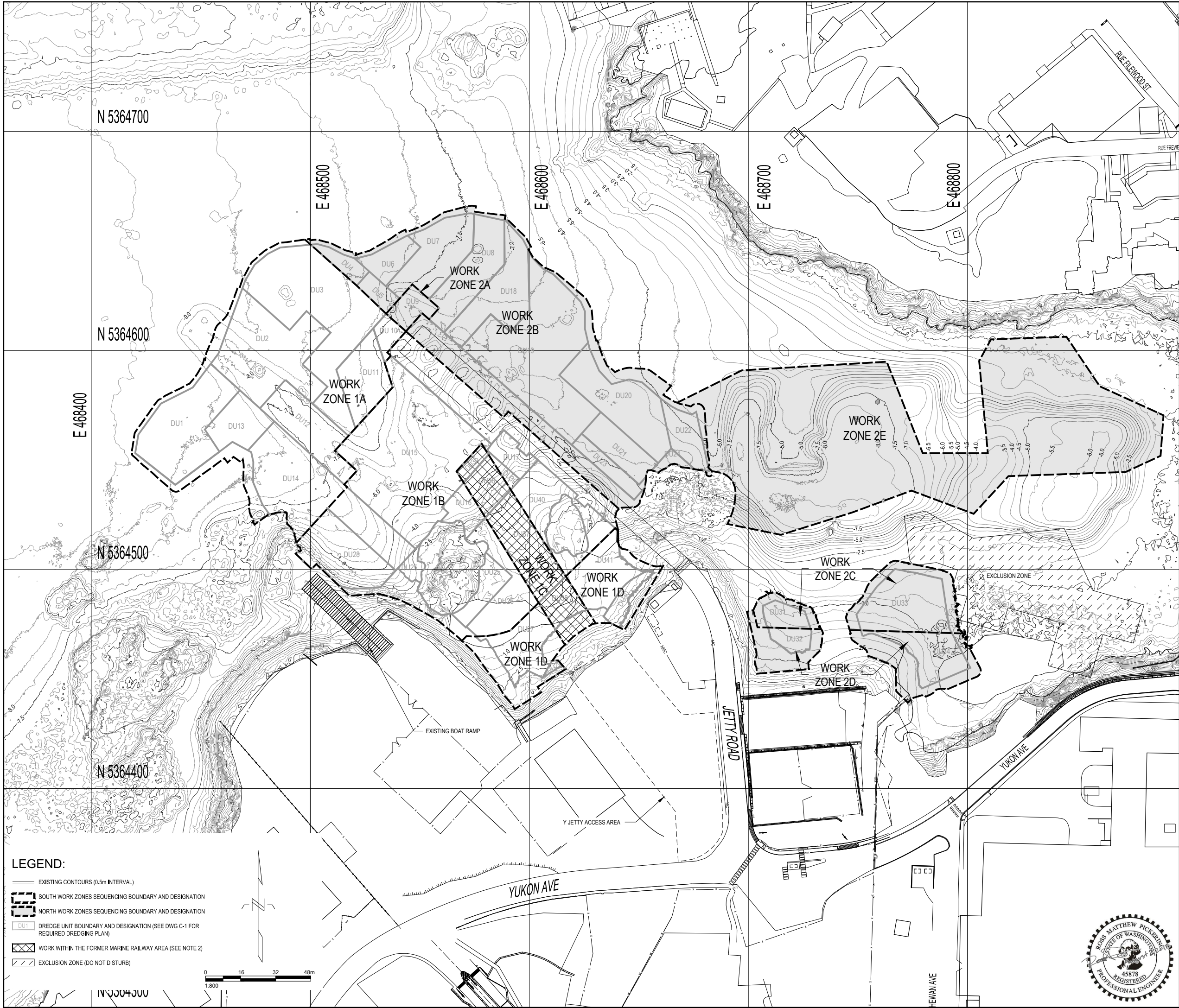
A	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.
SCALE ÉCHELLE 1:800			
LOCATION EMPLACEMENT Y JETTY AND LANG COVE CFB ESQUIMALT			
PROJECT PROJET EHRP PHASE 2C AND 2D Y JETTY AND LANG COVE			
TRADE MÉTIER CIVIL/ENVIRONMENTAL		DATE 2018-08-02	
SUBJECT SUJET EXISTING CONDITIONS			
DESIGNED ÉTUDIÉ R. PICKERING		XX XX X.X.	
DRAWN DESSINÉ C. HEWETT		PROJ MGR GEST PROJ	
CHECKED VÉRIFIÉ T. WANG		DES MGR GEST CONC	
COORDINATION		FIRE INCENDIE	
WBS NO. NO. OTP L-23		PF NO. NO. DP R.097231.001	
DWG. NO. NO. DESSIN		G-1	




ROSS MATTHEW PICKERING
STATE OF WASHINGTON
45878
REGISTERED
PROFESSIONAL ENGINEER

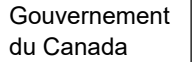


BORDER LAST UPDATED 2012-04-01
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G-1
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ANCHOR QEA



Klohn Crippen Berger



Esquimalt Harbour

Approximate Project Area

SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

NOTES:

- CONTRACTOR MUST COMPLETE WORK ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS IN THE SPECIFICATIONS AND CLAUSE 1.4 OF THE GENERAL INSTRUCTIONS.
- WORK WITHIN THE FORMER MARINE RAILWAY AREA MUST BE SEQUENCED AS DESCRIBED IN THE SPECIFICATIONS.

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE

1:800

LOCATION | EMPLACEMENT

Y JETTY AND LANG COVE

CFB ESQUIMALT

PROJECT | PROJET

EHRP PHASE 2C AND 2D

Y JETTY AND LANG COVE

TRADE | MÉTIER

CIVIL/ENVIRONMENTAL

DATE

2018-08-02

SUBJECT | SUJET

REMEDATION SEQUENCING PLAN

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

WBS NO. | NO. OTP


L-23

PF NO. | NO. DP

R.097231.001

DWG. NO. | NO. DESSIN

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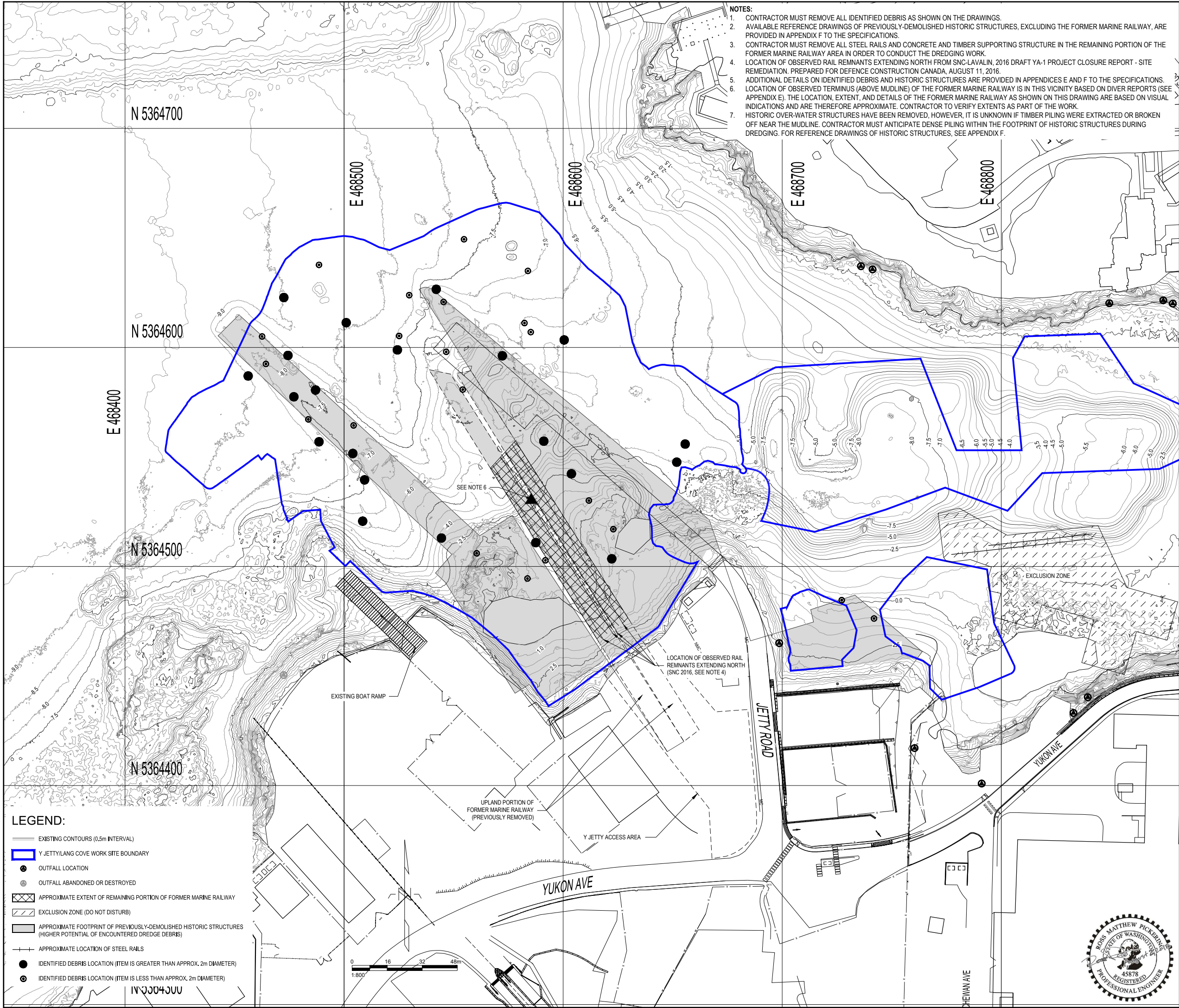
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G-2

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2018/JUL/31, 2:33pm

Sheet 6 of 32



- NOTES:**
1. CONTRACTOR MUST REMOVE ALL IDENTIFIED DEBRIS AS SHOWN ON THE DRAWINGS.
 2. AVAILABLE REFERENCE DRAWINGS OF PREVIOUSLY-DEMOLISHED HISTORIC STRUCTURES, EXCLUDING THE FORMER MARINE RAILWAY, ARE PROVIDED IN APPENDIX F TO THE SPECIFICATIONS.
 3. CONTRACTOR MUST REMOVE ALL STEEL RAILS AND CONCRETE AND TIMBER SUPPORTING STRUCTURE IN THE REMAINING PORTION OF THE FORMER MARINE RAILWAY AREA IN ORDER TO CONDUCT THE DREDGING WORK.
 4. LOCATION OF OBSERVED RAIL REMNANTS EXTENDING NORTH FROM SNC-LAVALIN, 2016 DRAFT YA-1 PROJECT CLOSURE REPORT - SITE REMEDIATION. PREPARED FOR DEFENCE CONSTRUCTION CANADA, AUGUST 11, 2016.
 5. ADDITIONAL DETAILS ON IDENTIFIED DEBRIS AND HISTORIC STRUCTURES ARE PROVIDED IN APPENDICES E AND F TO THE SPECIFICATIONS.
 6. LOCATION OF OBSERVED TERMINUS (ABOVE MUDLINE) OF THE FORMER MARINE RAILWAY IS IN THIS VICINITY BASED ON DIVER REPORTS (SEE APPENDIX E). THE LOCATION, EXTENT, AND DETAILS OF THE FORMER MARINE RAILWAY AS SHOWN ON THIS DRAWING ARE BASED ON VISUAL INDICATIONS AND ARE THEREFORE APPROXIMATE. CONTRACTOR TO VERIFY EXTENTS AS PART OF THE WORK.
 7. HISTORIC OVER-WATER STRUCTURES HAVE BEEN REMOVED, HOWEVER, IT IS UNKNOWN IF TIMBER PILING WERE EXTRACTED OR BROKEN OFF NEAR THE MUDLINE. CONTRACTOR MUST ANTICIPATE DENSE PILING WITHIN THE FOOTPRINT OF HISTORIC STRUCTURES DURING DREDGING. FOR REFERENCE DRAWINGS OF HISTORIC STRUCTURES, SEE APPENDIX F.

Government of Canada
Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
TO BE REVIEWED | À ÊTRE REVISER

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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
1:800

LOCATION | EMPLACEMENT
**Y JETTY AND LANG COVE
CFB ESQUIMALT**

PROJECT | PROJET
**EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE**

TRADE MÉTIER CIVIL/ENVIRONMENTAL	DATE 2018-08-02
SUBJECT SUJET IDENTIFIED DEBRIS, DREDGE DEBRIS, AND FORMER MARINE RAILWAY PLAN	

PRODUCTION	DESIGNED ÉTUDIÉ R. PICKERING	REVIEWED REVU XX XX X.X.	DES O AGENT CONC
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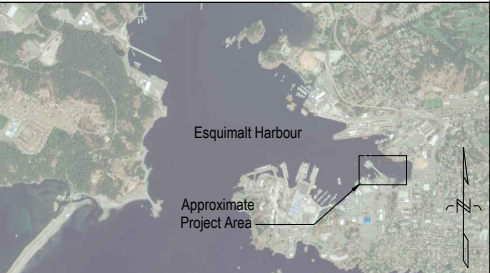
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HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

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SCALE | ÉCHELLE
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LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE MÉTIER	DATE
CIVIL/ENVIRONMENTAL	2018-08-02

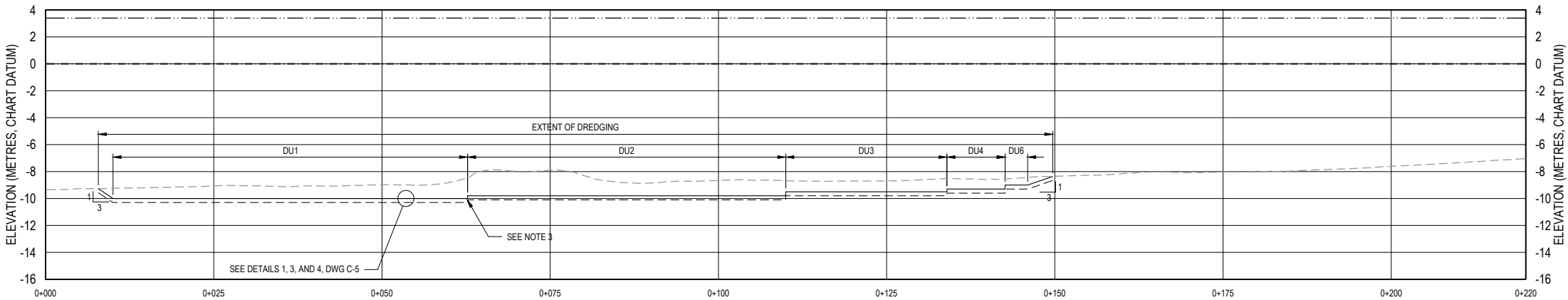
SUBJECT | SUJET
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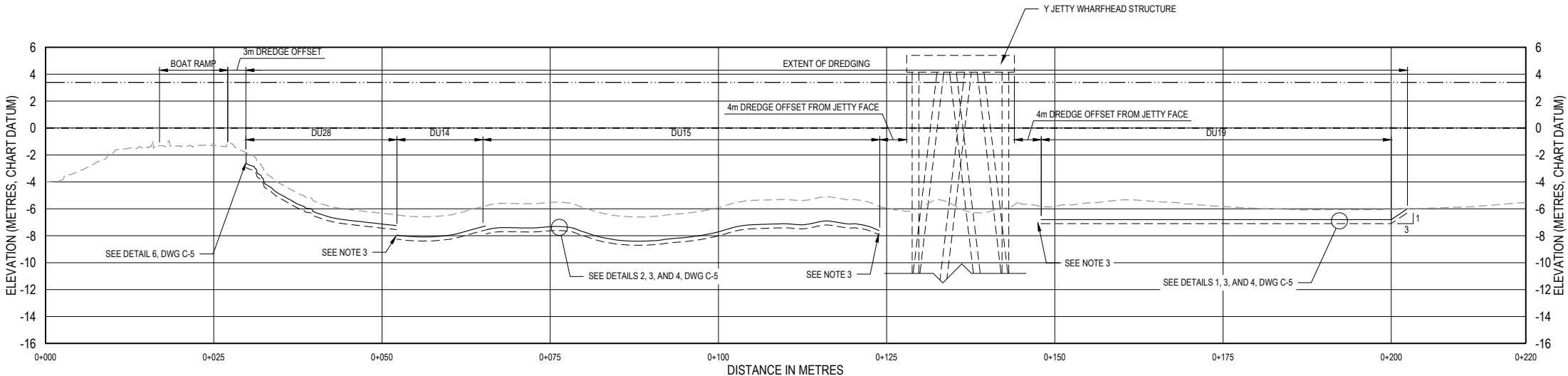
WBS NO. NO. OTP	PF NO. NO. DP
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C-2

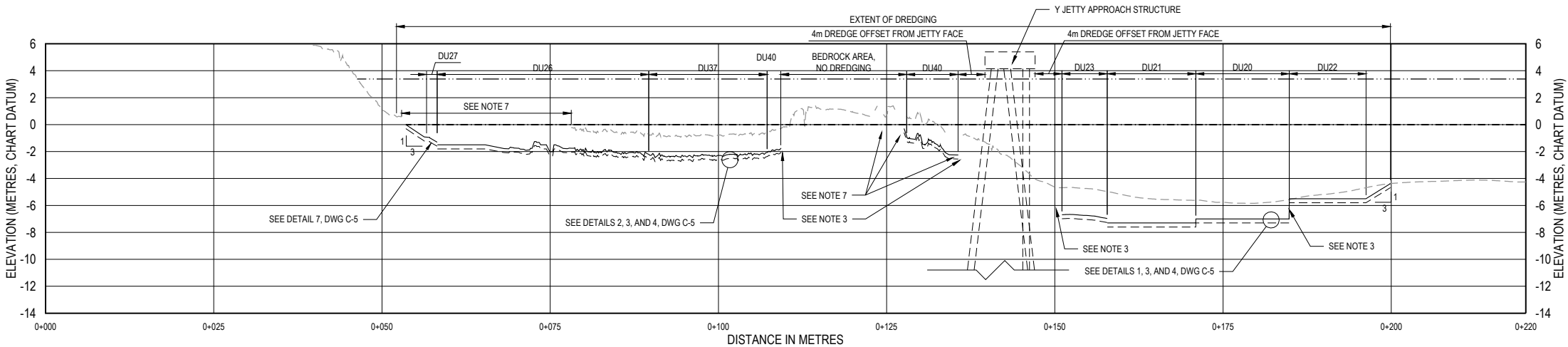
Canada



A
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100



B
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100



C
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100

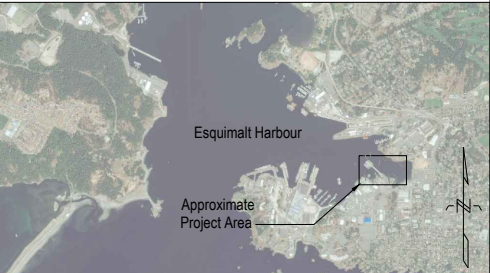
- NOTES:
- CONTRACTOR MUST DREDGE AS SHOWN AND DESCRIBED IN THE SPECIFICATIONS AND AS NOTED ON DRAWING C-1.
 - DO NOT PERFORM EXCESSIVE OVERDREDGING AT TOE OF CUT OR ON SLOPE AREAS. ANY DAMAGE TO EXISTING STRUCTURES OR SLOPES CAUSED BY EXCESSIVE DREDGING MUST BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 - POTENTIAL SLOUGH MATERIAL, OR SLOUGH MATERIAL VOLUME, IS DEFINED AS SEDIMENT ON A SIDE SLOPE THAT LOSES TOE SUPPORT AND SLOUGHS INTO THE DREDGE PRISM, INCLUDING FROM INTERNAL VERTICAL DREDGE CUTS BETWEEN DREDGE UNITS. CONTRACTOR MUST REMOVE SLOUGH MATERIAL TO ACHIEVE THE REQUIRED DREDGE ELEVATION. NO SEPARATE PAYMENT FOR SLOUGH MATERIAL WILL BE MADE. CONTRACTOR TO INCLUDE ANTICIPATED SLOUGH VOLUME COSTS IN BID PRICE. CONTRACTOR MEANS AND METHODS TO PROTECT EXISTING STRUCTURES.
 - PAYABLE OVERDREDGE ALLOWANCE IS 0.3m IN REQUIRED DREDGE AREAS.
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 - BATHYMETRIC DATA ARE MISSING FROM SOME PORTIONS OF WORK SITE AS SHOWN AND THE REQUIRED CUT THICKNESS LINE IS ESTIMATED AND SHOWN FOR INFORMATIONAL PURPOSES. THE CONTRACTOR MUST CONFIRM PRE-CONSTRUCTION ELEVATIONS. DREDGE VOLUMES IN THESE AREAS WERE ESTIMATED AND ARE INCLUDED IN THE VOLUMES IN THE UNIT PRICE TABLE.



- LEGEND:
- EXISTING SEABED ELEVATION
 - REQUIRED CUT THICKNESS OR REQUIRED DREDGE ELEVATION
 - PAYABLE OVERDREDGE ALLOWANCE (0.3m MAX.)
 - HIGHER HIGH WATER, LARGE TIDE (ELEVATION 3.39m CD)
 - LOWER LOW WATER, LARGE TIDE (ELEVATION 0.00m CD)

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

0	2018-08-02	ISSUED FOR TENDER	

NO.	DATE	REVISION	APPR.
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SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE MÉTIER	DATE
CIVIL/ENVIRONMENTAL	2018-08-02

SUBJECT SUJET
DREDGING CROSS SECTIONS (2 OF 3)

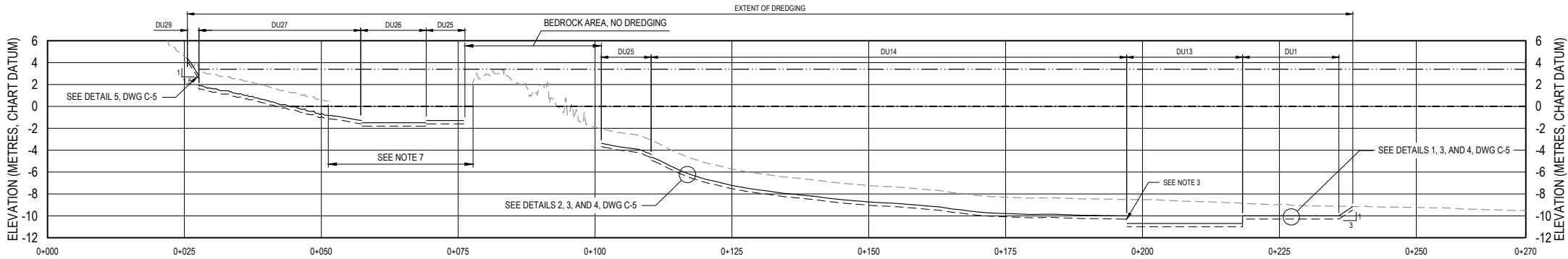
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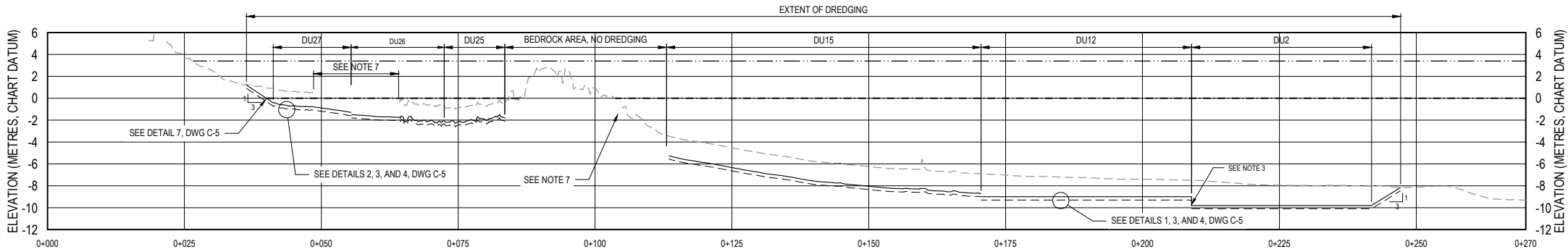
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C-3

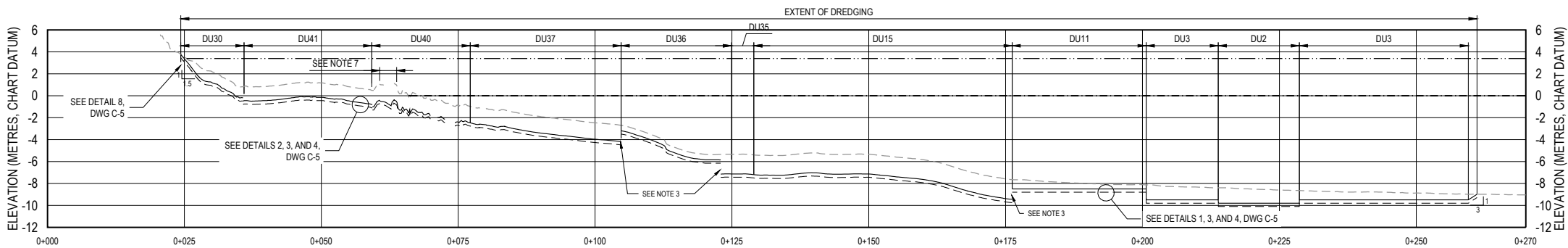
Canada



D
C-1
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100



E
C-1
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100



F
C-1
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100

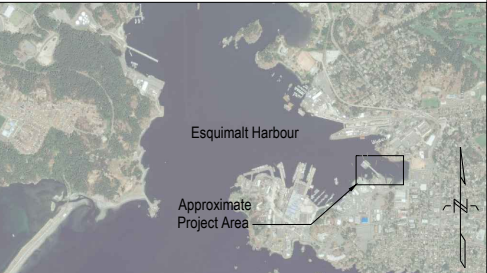
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0	2018-08-02	ISSUED FOR TENDER	
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SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

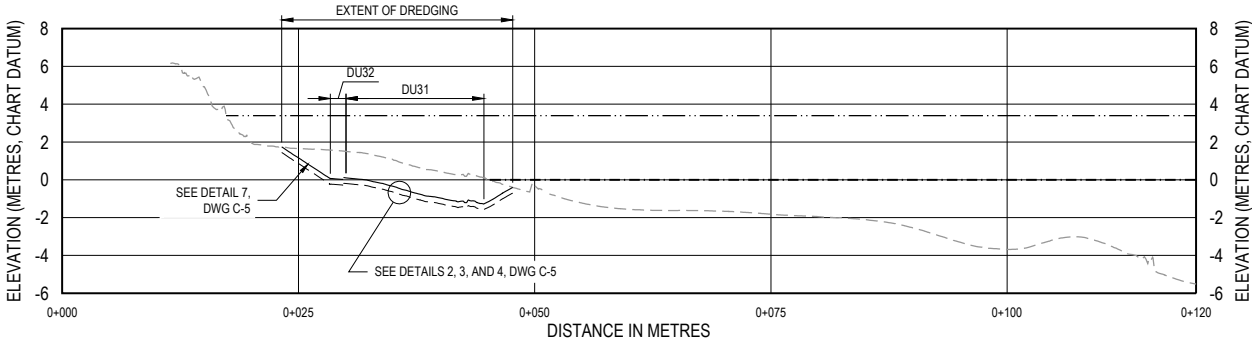
TRADE MÉTIER	DATE
CIVIL/ENVIRONMENTAL	2018-08-02

SUBJECT SUJET
DREDGING CROSS SECTIONS (3 OF 3)

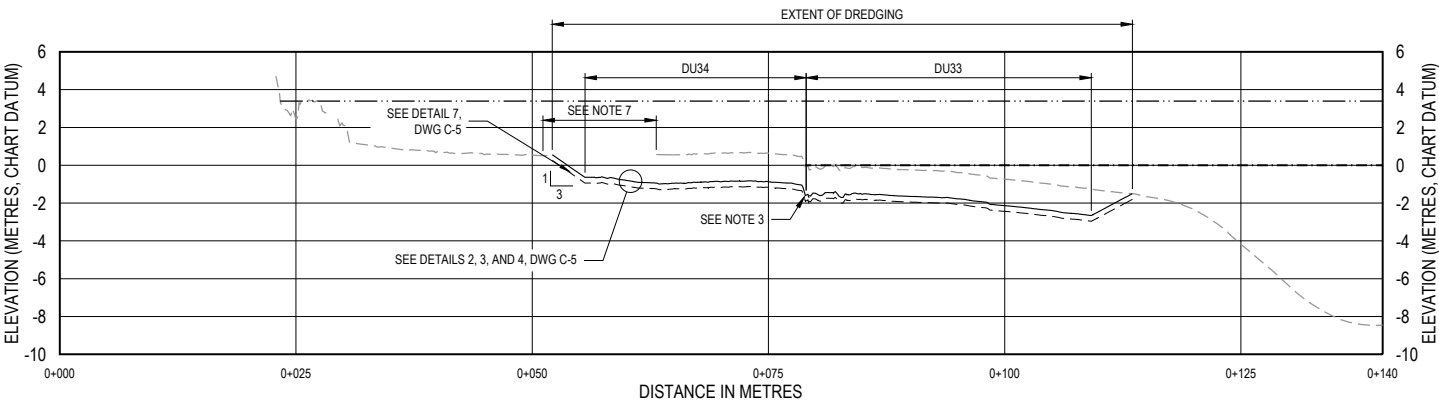
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C. HEWETT			
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T. WANG			
COORDINATION		FIRE INCENDIE	

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C-4



G
C-1
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100



H
C-1
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100

- NOTES:
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- NOTES:
- THE REQUIRED DREDGE ELEVATIONS AND REQUIRED CUT THICKNESSES ARE DEFINED ON DRAWING C-1.
 - OPTIONAL CONTINGENCY RE-DREDGING FOR REMOVAL OF RESIDUALS WILL BE ADDITIONAL DREDGING AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE AFTER REQUIRED DREDGING ACTIVITIES HAVE BEEN COMPLETED AND BASED ON DEPARTMENTAL REPRESENTATIVE-CONDUCTED POST-DREDGE CONFIRMATION SAMPLING AND TESTING RESULTS.

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE MÉTIER CIVIL/ENVIRONMENTAL	DATE 2018-08-02
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SUBJECT | SUJET

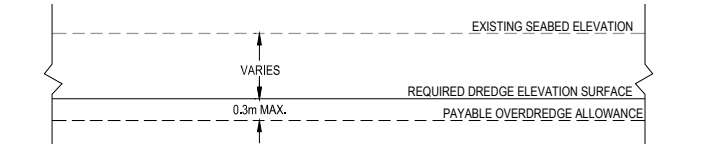
DREDGING DETAILS

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CHECKED VÉRIFIÉ			DES MGR GEST CONC
T. WANG			
COORDINATION			FIRE INCENDIE

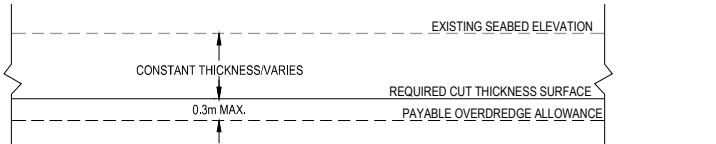
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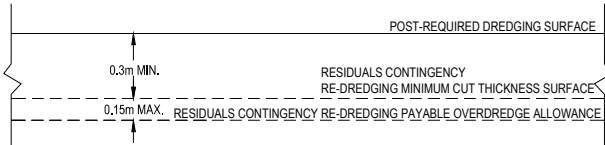
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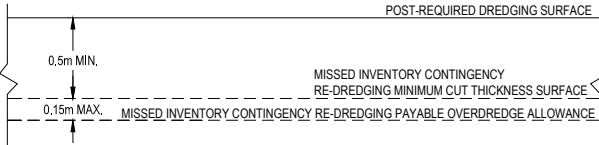
1 REQUIRED DREDGING (REQUIRED DREDGE ELEVATION)
SCALE: N.T.S.



2 REQUIRED DREDGING (REQUIRED CUT THICKNESS)
SCALE: N.T.S.

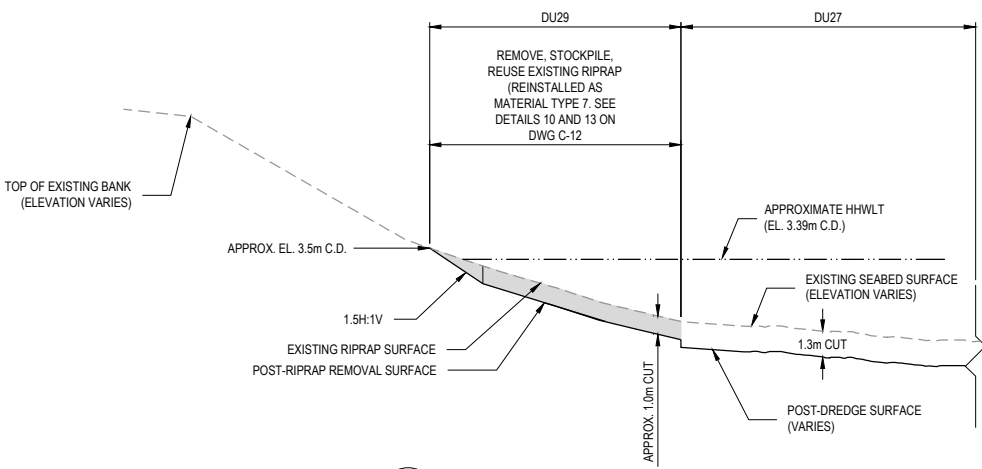


3 RESIDUALS CONTINGENCY RE-DREDGING (OPTIONAL WORK)
SCALE: N.T.S.

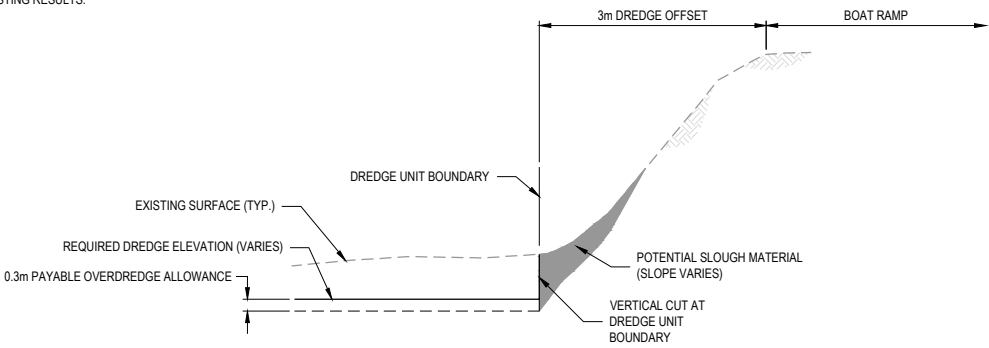


4 MISSED INVENTORY CONTINGENCY RE-DREDGING (OPTIONAL WORK)
SCALE: N.T.S.

- NOTES:
- MISSED INVENTORY CONTINGENCY RE-DREDGING MINIMUM CUT THICKNESS SUBJECT TO DEPARTMENTAL REPRESENTATIVE DIRECTION BASED ON POST-DREDGE CONFIRMATION SAMPLING AND TESTING RESULTS.

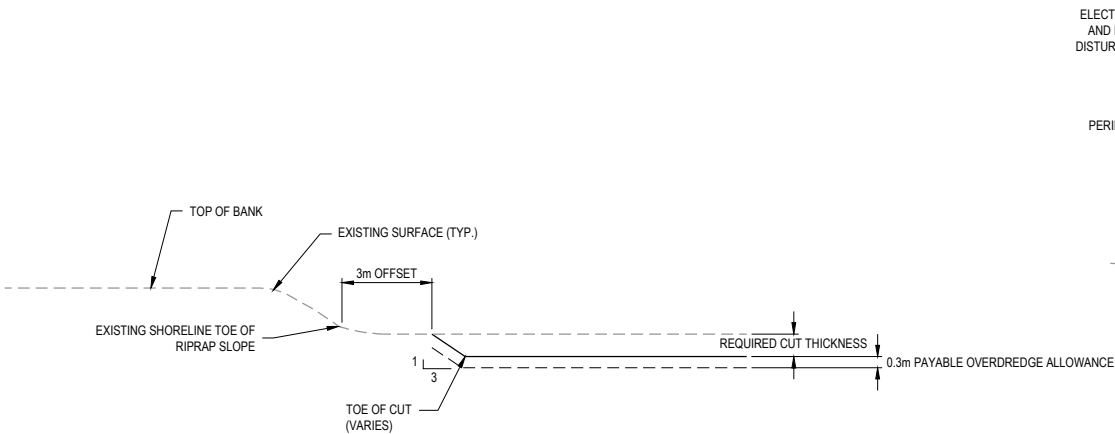


5 SHORELINE RIPRAP REMOVAL - DU29
SCALE: N.T.S.



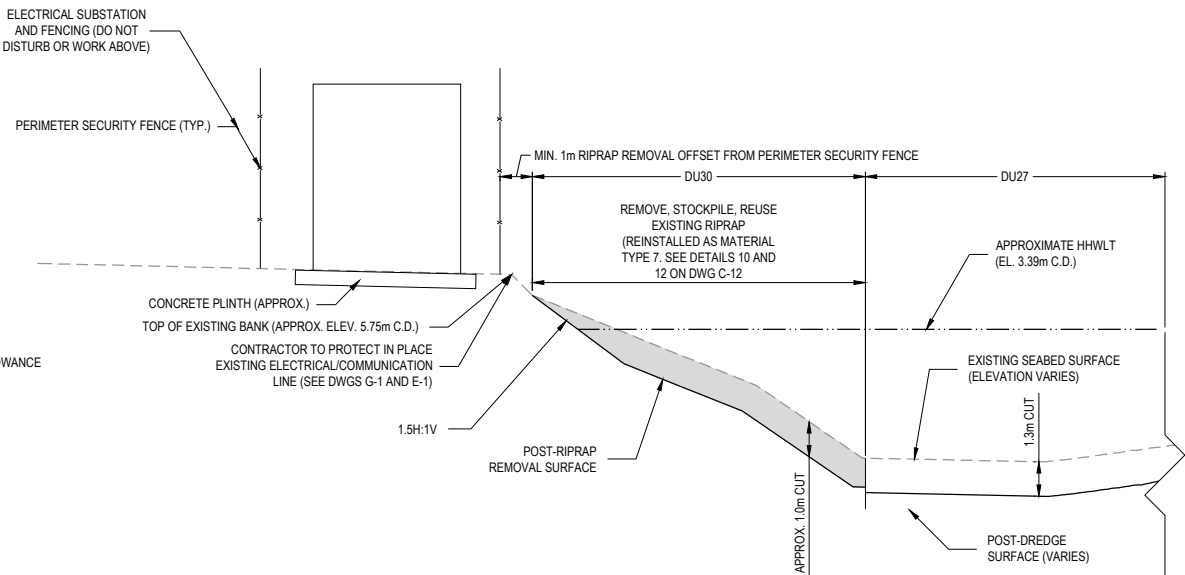
- NOTES:
- CONTRACTOR MUST MAKE VERTICAL CUT AT THE DREDGE UNIT BOUNDARY ALONG SHORELINE IN DU 28 (SEE DWG C-1).
 - THERE IS NO DREDGING REQUIRED OUTSIDE OF THE DU BOUNDARY AT THE WORK SITE BOUNDARY. SLOUGH MATERIAL FROM OUTSIDE THE DU BOUNDARY MUST BE REMOVED WITHIN THE DREDGE UNIT TO ACHIEVE THE REQUIRED DREDGE ELEVATION AND WILL BE INCIDENTAL TO THE DREDGING WORK.

6 NEARSHORE DREDGING IN DU28
SCALE: N.T.S.



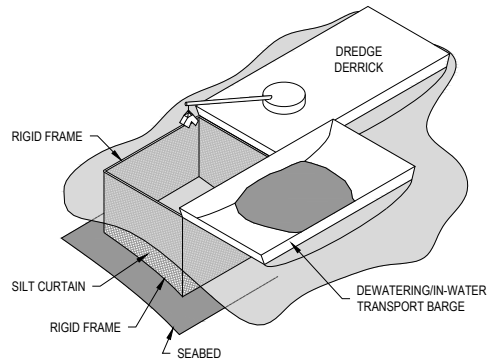
- NOTES:
- CONTRACTOR MUST MAKE SLOPE CUT AS SHOWN AT THE DREDGE UNIT BOUNDARY ALONG SHORELINE EXCEPT IN DU 28 (SEE DETAIL 6, THIS SHEET).
 - CONTRACTOR MUST START DREDGE CUT AT A 3m OFFSET FROM THE EXISTING SHORELINE TOE OF SLOPE SLOPING DOWN AT A 3H:1V GRADE UNTIL REQUIRED CUT THICKNESS IS MET.
 - DO NOT DESTABILIZE EXISTING RIPRAP SHORE PROTECTION MATERIAL EXCEPT WHERE RIPRAP REMOVAL IS REQUIRED AT DU29 AND DU30.
 - CONTRACTOR MUST VERIFY LOCATION OF TOE OF RIPRAP SLOPE PRIOR TO START OF DREDGING AND ENSURE THAT NO DREDGING OCCURS WITHIN THE 3-METRE OFFSET FROM THE TOE OF THE RIPRAP SLOPE.

7 NEARSHORE DREDGING IN DUs 25, 26, 27, 32, AND 34
SCALE: N.T.S.

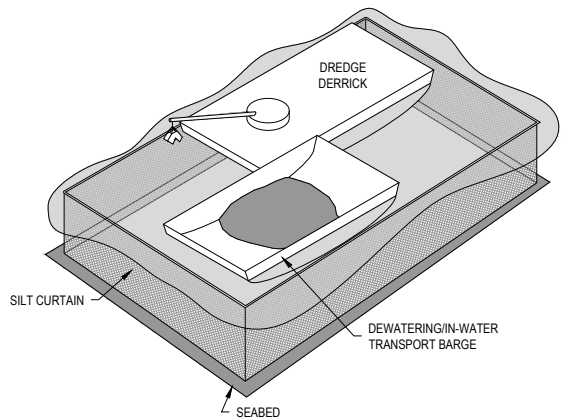


8 SHORELINE RIPRAP REMOVAL - DU30
SCALE: N.T.S.





1
-
EXAMPLE SILT CURTAIN ARRANGEMENT (SILT CURTAIN AFFIXED TO DREDGE EQUIPMENT)
SCALE: N.T.S.



2
-
EXAMPLE SILT CURTAIN ARRANGEMENT (SILT CURTAIN SURROUNDING DREDGE EQUIPMENT)
SCALE: N.T.S.

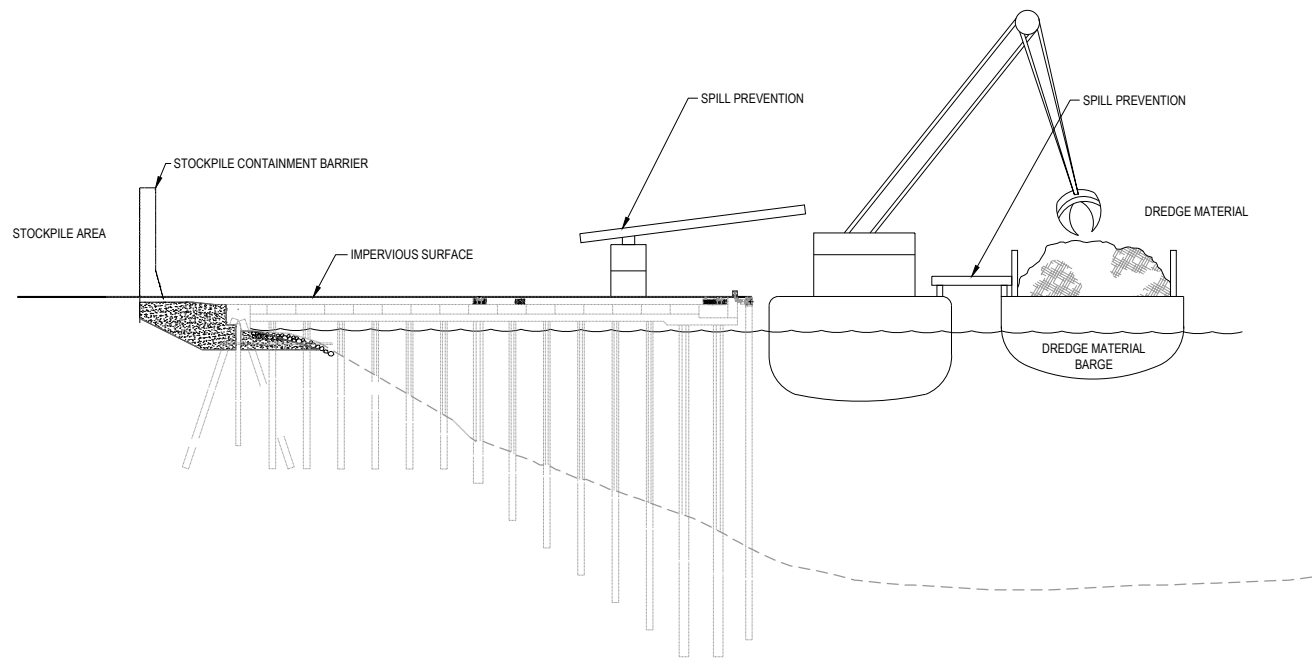


PHOTO 1: EXAMPLE OF OFFLOADING OPERATIONAL CONTROLS



PHOTO 2: EXAMPLE OF OFFLOADING OPERATIONAL CONTROLS

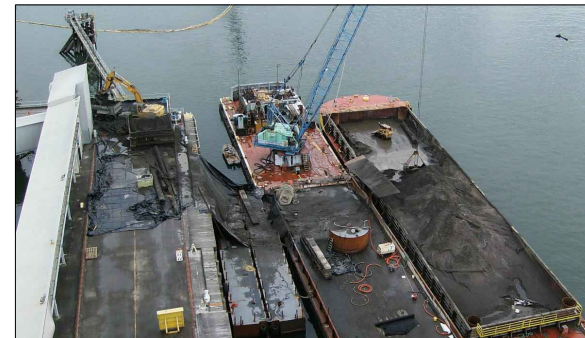


PHOTO 3: EXAMPLE OF OFFLOADING TO TRUCKS OPERATIONAL CONTROLS

3
-
OFFLOADING OPERATIONAL CONTROLS
SCALE: N.T.S.



- NOTES:
1. EXAMPLES SHOWN ARE FOR CONTRACTOR INFORMATION ONLY AND INTENDED TO SHOW EXAMPLE BEST MANAGEMENT PRACTICES. DESIGN AND OPERATIONS OF CONTAINMENT SILT CURTAINS, STOCKPILE MANAGEMENT AND OFFLOADING OPERATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR, COMPLY WITH ALL CONTRACT DOCUMENTS, ENVIRONMENTAL MANAGEMENT PLAN, AND THE FEDERAL, PROVINCIAL, AND MUNICIPAL PERMIT REQUIREMENTS FOR SILT CURTAINS, OFFLOAD FACILITY, AND STOCKPILING.
 2. SPILLS THAT OCCUR DURING OFFLOADING AND TRANSFER MUST DRAIN ONTO BARGE OR WITHIN A CONTAINED UPLAND AREA, SPILL PROTECTION MUST BE CONSTRUCTED FROM IMPERVIOUS MATERIAL.
 3. CONTRACTOR TO DETERMINE OFFSITE OFFLOADING AND DISPOSAL FACILITIES AND OBTAIN DEPARTMENTAL REPRESENTATIVE'S ACCEPTANCE PRIOR TO USE.
 4. THE SILT CURTAIN MUST EXTEND A MINIMUM OF 5m BELOW WATER SURFACE, OR TO JUST ABOVE THE SEABED SURFACE, WHICHEVER IS SHALLOWER. IT MUST BE INSTALLED, MANAGED, AND MOVED SUCH THAT MINIMAL DISPERSION OF SUSPENDED SEDIMENT IN THE WATER COLUMN OCCURS, AND TO MEET THE WATER QUALITY REQUIREMENTS OF THE ENVIRONMENTAL MANAGEMENT PLAN.

0	2018-08-02	ISSUED FOR TENDER	
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SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018-08-02

SUBJECT | SUJET
OFFLOADING, STOCKPILING, AND
SILT CURTAIN DETAILS

PRODUCTION	DESIGNED ÉTUDIÉ	DRAWN DESSINÉ	CHECKED VÉRIFIÉ	COORDINATION	REVIEWED REVU	DES O AGENT CONC	PROJ MGR GEST PROJ	DES MGR GEST CONC	FIRE INCENDIE
	R. PICKERING	C. HEWETT	T. WANG						

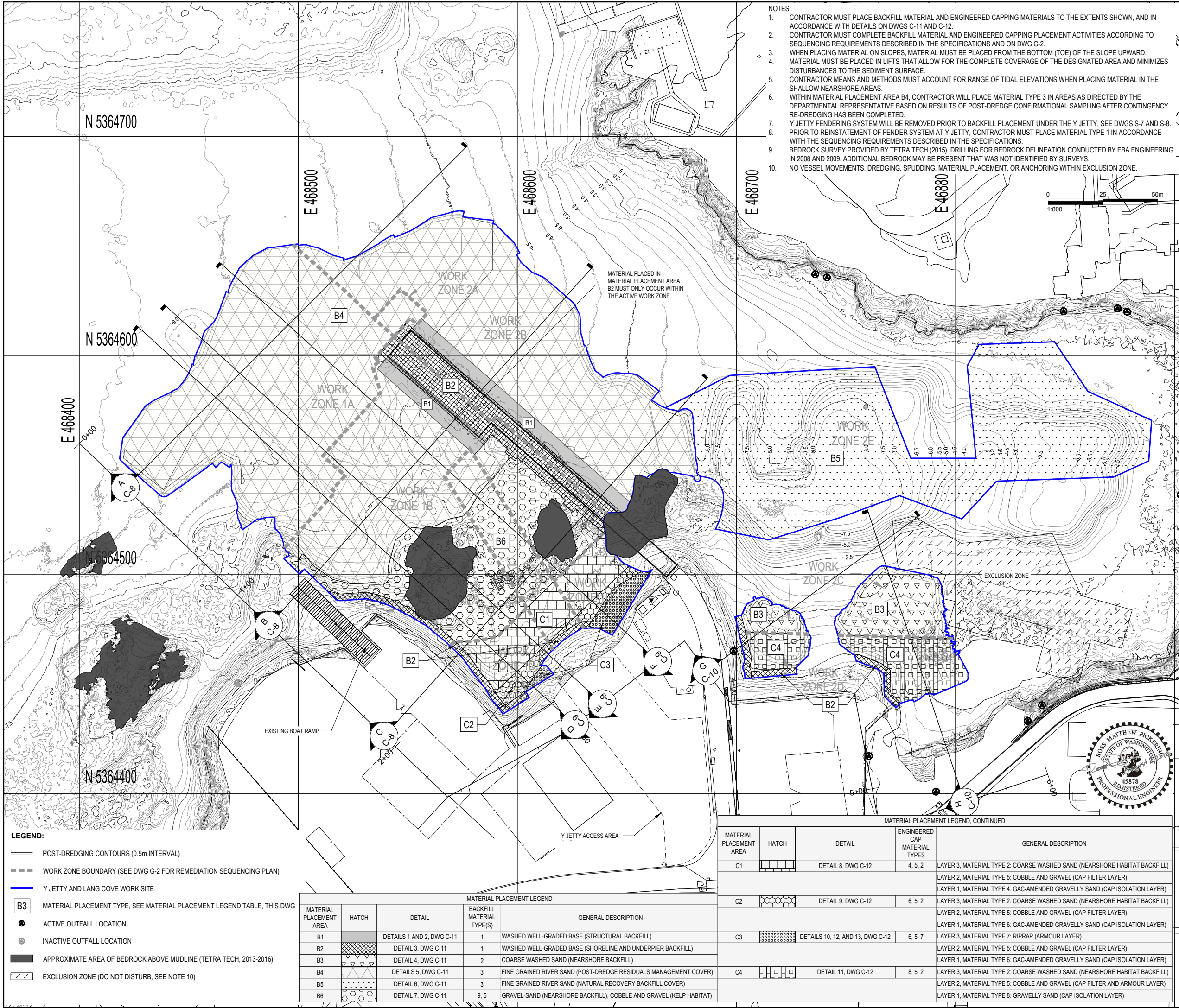
WBS NO. | NO. OTP
L-23


PF NO. | NO. DP
R.097231.001

DWG. NO. | NO. DESSIN
C-6

Canada





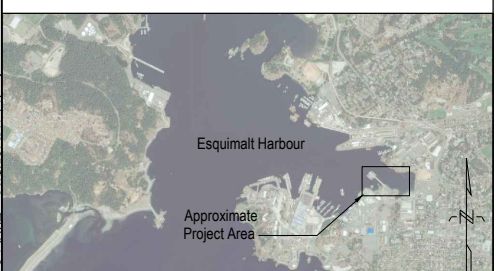




Government of Canada
Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
TO BE REVIEWED | À ÊTRE REVISER


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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.
SCALE ÉCHELLE 1:800			
LOCATION EMPLACEMENT Y JETTY AND LANG COVE CFB ESQUIMALT			
PROJECT PROJET EHRP PHASE 2C AND 2D Y JETTY AND LANG COVE			
TRADE MÉTIER CIVIL/ENVIRONMENTAL		DATE 2018-08-02	
SUBJECT SUJET REQUIRED BACKFILL MATERIAL AND ENGINEERED CAPPING PLAN			
DESIGNED ÉTUDIÉ R. PICKERING		XX XX 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 L-23		PF NO. NO. DP R.097231.001	
DWG. NO. NO. DESSIN		C-7	



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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE MÉTIER	DATE
CIVIL/ENVIRONMENTAL	2018-08-02

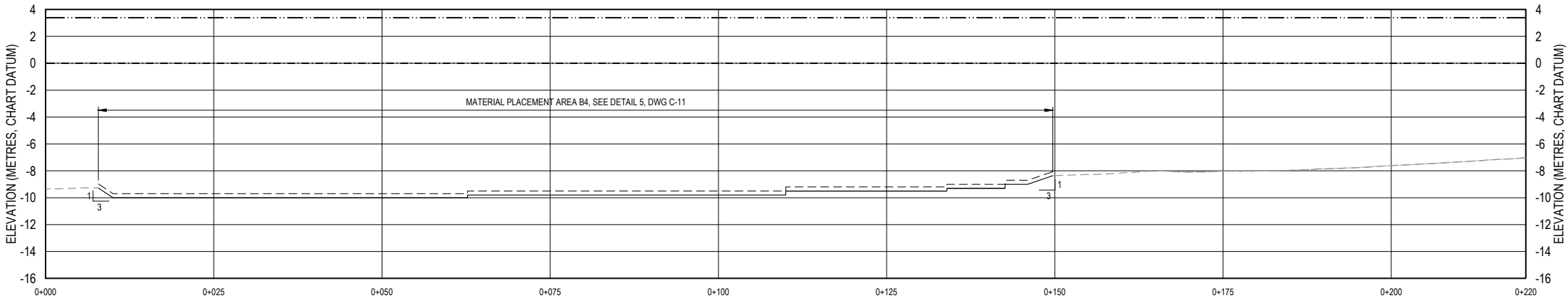
SUBJECT SUJET
BACKFILL MATERIAL AND ENGINEERED CAPPING CROSS SECTIONS (1 OF 3)

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

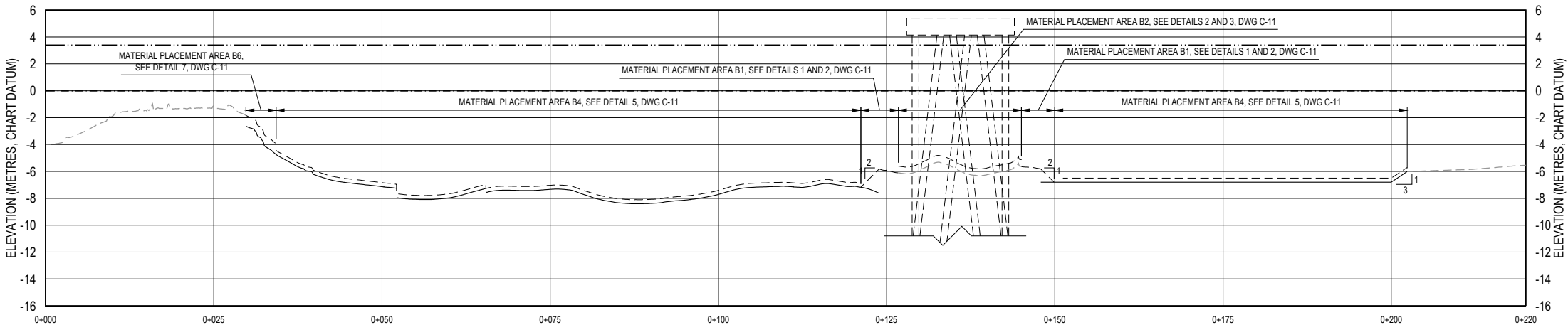
WBS NO. NO. OTP	PF NO. NO. DP
L-23	R.097231.001
DWG. NO. NO. DESSIN	

C-8

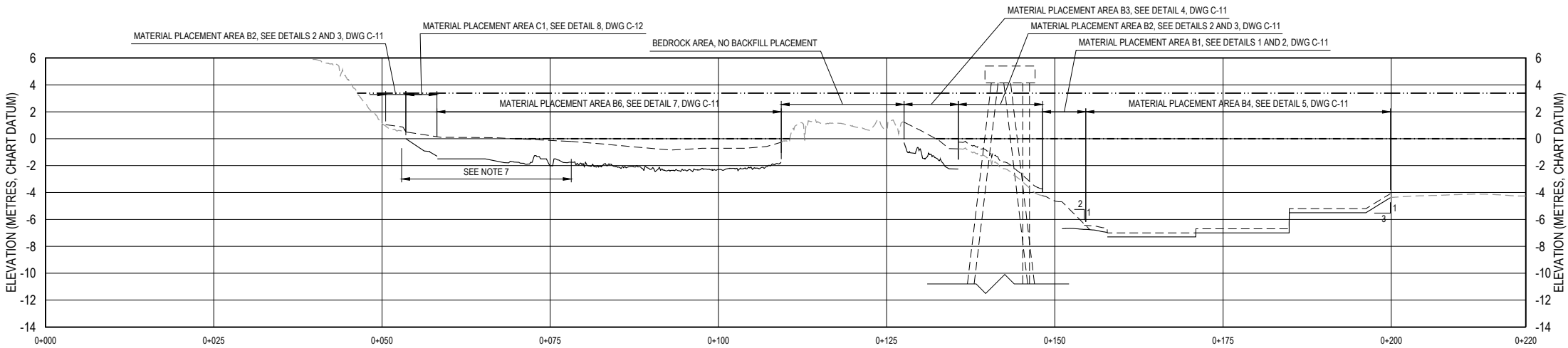
Canada



A
C-7
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100



B
C-7
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100



C
C-7
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100

LEGEND:

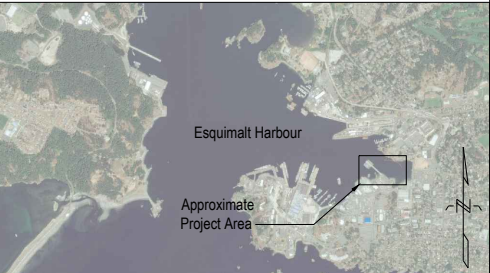
- EXISTING SEABED ELEVATION OR TOP OF BEDROCK
- POST-DREDGE SURFACE (VARIES)
- POST-PLACEMENT SURFACE (VERTICAL PLACEMENT TOLERANCE NOT SHOWN)
- HIGHER HIGH WATER, LARGE TIDE (ELEVATION 3.39m CD)
- LOWER LOW WATER, LARGE TIDE (ELEVATION 0.00m CD)

- NOTES:
- CONTRACTOR MUST PLACE BACKFILL MATERIAL AND ENGINEERED CAPPING MATERIALS TO THE EXTENTS SHOWN.
 - CONTRACTOR MUST COMPLETE BACKFILL MATERIAL AND ENGINEERED CAPPING PLACEMENT ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND ON DWG G-2.
 - WHEN PLACING MATERIAL ON SLOPES, MATERIAL MUST BE PLACED FROM THE BOTTOM (TOE) OF THE SLOPE UPWARD.
 - WITHIN MATERIAL PLACEMENT AREA B4, CONTRACTOR WILL PLACE MATERIAL TYPE 3 IN AREAS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE BASED ON RESULTS OF POST-DREDGE CONFIRMATIONAL SAMPLING AFTER CONTINGENCY RE-DREDGING HAS BEEN COMPLETED.
 - Y JETTY FENDERING SYSTEM WILL BE REMOVED PRIOR TO BACKFILL PLACEMENT UNDER THE Y JETTY, SEE DWGS S-7 AND S-8.
 - PRIOR TO REINSTATEMENT OF FENDER SYSTEM AT Y JETTY, CONTRACTOR MUST PLACE STRUCTURAL MATERIAL TYPE 1 IN ACCORDANCE WITH THE SEQUENCING REQUIREMENTS DESCRIBED IN THE SPECIFICATIONS.
 - BATHYMETRIC DATA ARE MISSING FROM SOME PORTIONS OF WORK SITE. PLACEMENT VOLUMES IN THESE AREAS WERE ESTIMATED AND ARE INCLUDED IN THE VOLUMES IN THE UNIT PRICE TABLE. THE POST-DREDGE AND POST-PLACEMENT SURFACES ARE ESTIMATED AND SHOWN FOR INFORMATIONAL PURPOSES. THE CONTRACTOR MUST CONFIRM PRE-CONSTRUCTION ELEVATIONS.



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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE MÉTIER	DATE
CIVIL/ENVIRONMENTAL	2018-08-02

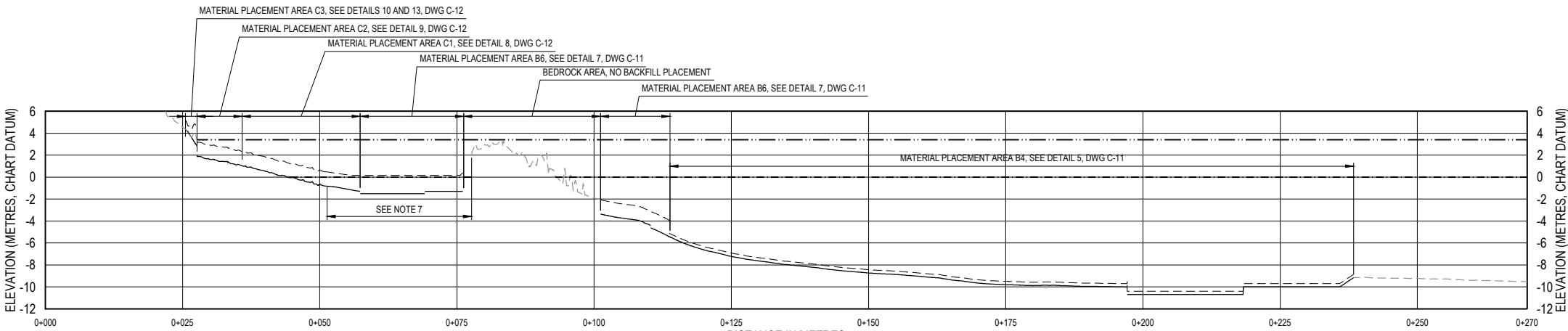
SUBJECT SUJET
BACKFILL MATERIAL AND ENGINEERED CAPPING CROSS SECTIONS (2 OF 3)

PRODUCTION		REVIEWED REVU
DESIGNED ÉTUDIÉ	R. PICKERING	XX XX
DRAWN DESSINÉ	C. HEWETT	X.X.
CHECKED VÉRIFIÉ	T. WANG	
COORDINATION		
		FIRE INCENDIE

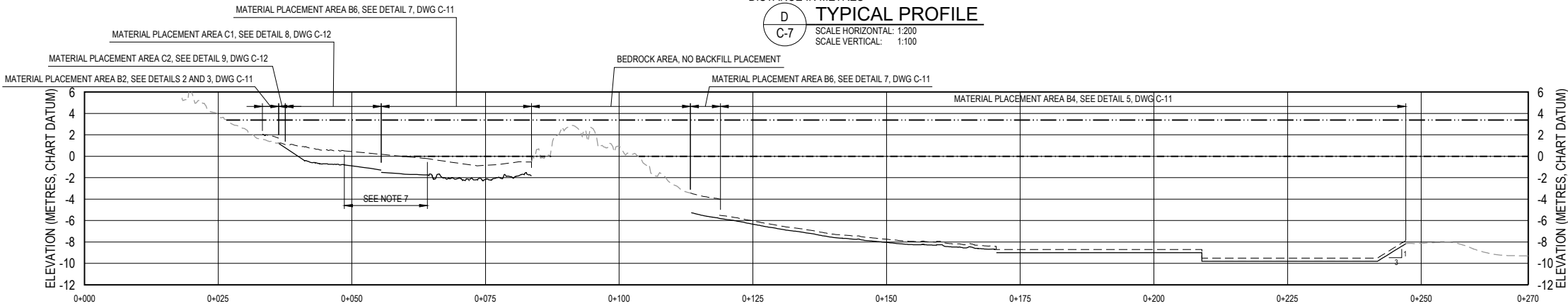
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L-23	R.097231.001
DWG. NO. NO. DESSIN	

C-9

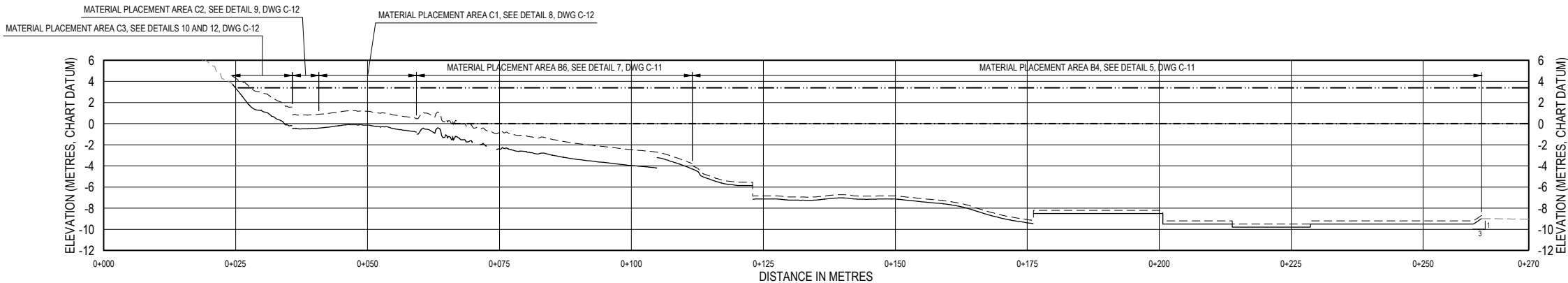
Canada



D
C-7
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100



E
C-7
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100



F
C-7
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100

LEGEND:

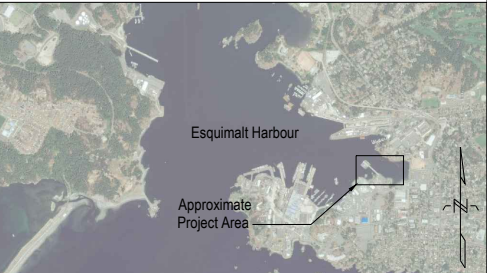
- EXISTING SEABED ELEVATION OR TOP OF BEDROCK
- POST-DREDGE SURFACE (VARIES)
- POST-PLACEMENT SURFACE (VERTICAL PLACEMENT TOLERANCE NOT SHOWN)
- - - HIGHER HIGH WATER, LARGE TIDE (ELEVATION 3.39m CD)
- - - LOWER LOW WATER, LARGE TIDE (ELEVATION 0.00m CD)

- NOTES:
- CONTRACTOR MUST PLACE BACKFILL MATERIAL AND ENGINEERED CAPPING MATERIALS TO THE EXTENTS SHOWN.
 - CONTRACTOR MUST COMPLETE BACKFILL MATERIAL AND ENGINEERED CAPPING PLACEMENT ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND ON DWG G-2.
 - WHEN PLACING MATERIAL ON SLOPES, MATERIAL MUST BE PLACED FROM THE BOTTOM (TOE) OF THE SLOPE UPWARD.
 - CONTRACTOR MEANS AND METHODS MUST ACCOUNT FOR RANGE OF TIDAL ELEVATIONS WHEN PLACING MATERIAL IN THE SHALLOW NEARSHORE AREAS.
 - WITHIN MATERIAL PLACEMENT AREA B4, CONTRACTOR WILL PLACE MATERIAL TYPE 3 IN AREAS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE BASED ON RESULTS OF POST-DREDGE CONFIRMATIONAL SAMPLING AFTER CONTINGENCY RE-DREDGING HAS BEEN COMPLETED.
 - Y JETTY FENDERING SYSTEM WILL BE REMOVED PRIOR TO BACKFILL PLACEMENT UNDER THE Y JETTY, SEE DWGS S-7 AND S-8.
 - PRIOR TO REINSTATEMENT OF FENDER SYSTEM AT Y JETTY, CONTRACTOR MUST PLACE STRUCTURAL MATERIAL TYPE 1 IN ACCORDANCE WITH THE SEQUENCING REQUIREMENTS DESCRIBED IN THE SPECIFICATIONS.
 - BATHYMETRIC DATA ARE MISSING FROM SOME PORTIONS OF WORK SITE. PLACEMENT VOLUMES IN THESE AREAS WERE ESTIMATED AND ARE INCLUDED IN THE VOLUMES IN THE UNIT PRICE TABLE. THE POST-DREDGE AND POST-PLACEMENT SURFACES ARE ESTIMATED AND SHOWN FOR INFORMATIONAL PURPOSES. THE CONTRACTOR MUST CONFIRM PRE-CONSTRUCTION ELEVATIONS.



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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

0	2018-08-02	ISSUED FOR TENDER	

NO.	DATE	REVISION	APPR.
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SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE MÉTIER CIVIL/ENVIRONMENTAL	DATE 2018-08-02
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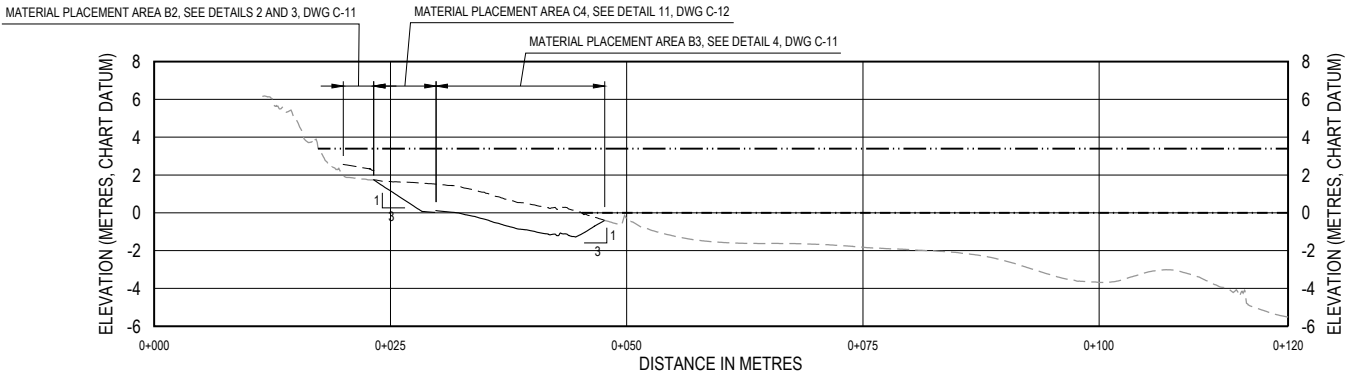
SUBJECT | SUJET
BACKFILL MATERIAL AND
ENGINEERED CAPPING
CROSS SECTIONS (3 OF 3)

PRODUCTION		REVIEWED REVU
DESIGNED ÉTUDIÉ	R. PICKERING	XX XX X.X.
DRAWN DESSINÉ	C. HEWETT	
CHECKED VÉRIFIÉ	T. WANG	
COORDINATION		
		FIRE INCENDIE

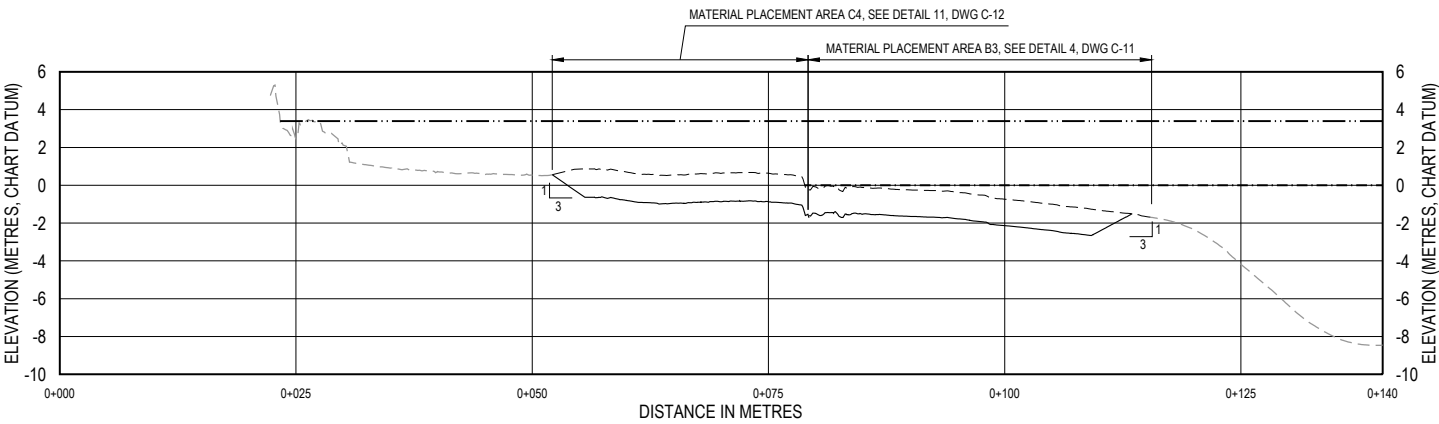
WBS NO. NO. OTP L-23	PF NO. NO. DP R.097231.001
DWG. NO. NO. DESSIN	

C-10

Canada



G
C-7
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100



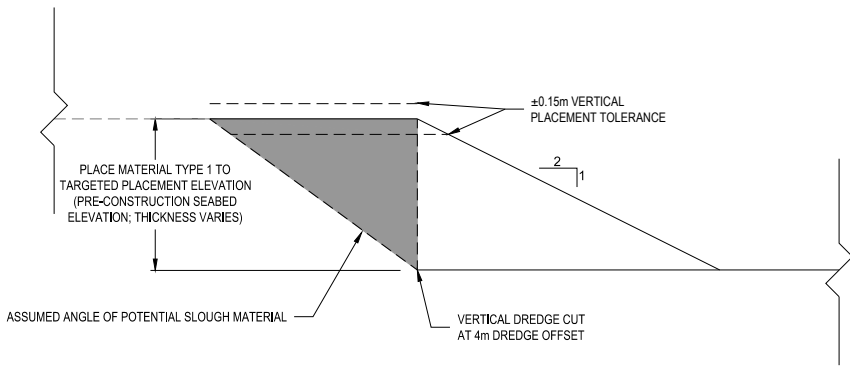
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C-7
TYPICAL PROFILE
SCALE HORIZONTAL: 1:200
SCALE VERTICAL: 1:100

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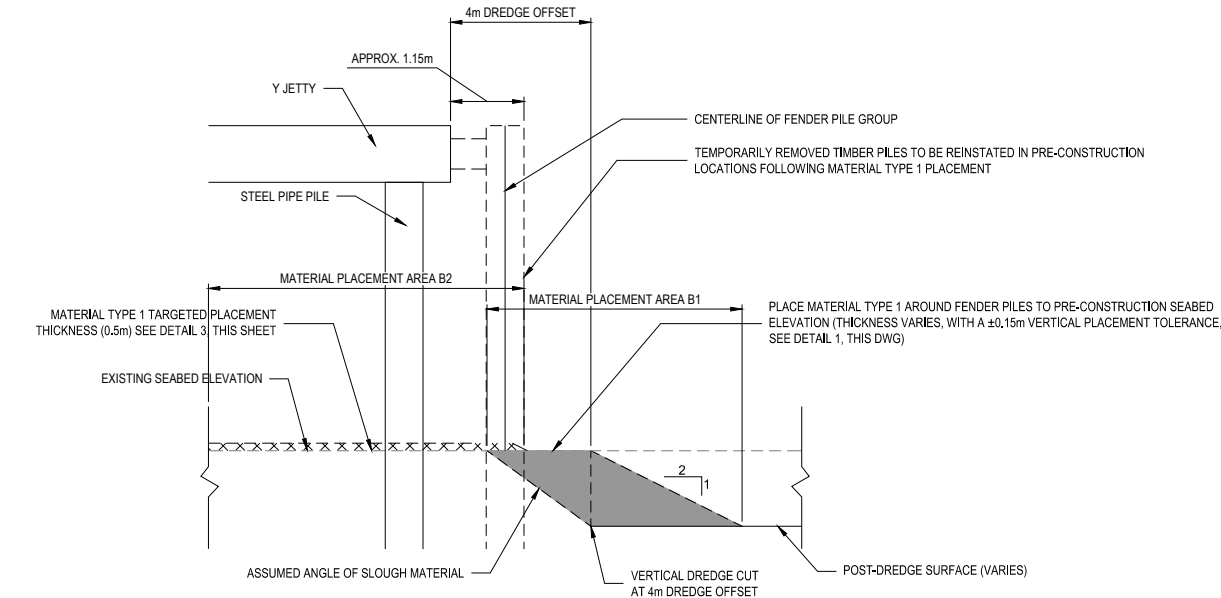
- EXISTING SEABED ELEVATION OR TOP OF BEDROCK
- POST-DREDGE SURFACE (VARIES)
- ... POST-PLACEMENT SURFACE (VERTICAL PLACEMENT TOLERANCE NOT SHOWN)
- - - HIGHER HIGH WATER, LARGE TIDE (ELEVATION 3.39m CD)
- . - . LOWER LOW WATER, LARGE TIDE (ELEVATION 0.00m CD)

- NOTES:
- CONTRACTOR MUST PLACE BACKFILL MATERIAL AND ENGINEERED CAPPING MATERIALS TO THE EXTENTS SHOWN.
 - CONTRACTOR MUST COMPLETE BACKFILL MATERIAL AND ENGINEERED CAPPING PLACEMENT ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND ON DWG G-2.
 - WHEN PLACING MATERIAL ON SLOPES, MATERIAL MUST BE PLACED FROM THE BOTTOM (TOE) OF THE SLOPE UPWARD. MATERIAL MUST BE PLACED IN LIFTS THAT ALLOW FOR THE COMPLETE COVERAGE OF THE DESIGNATED AREA AND MINIMIZES DISTURBANCES TO THE SEDIMENT SURFACE.
 - CONTRACTOR MEANS AND METHODS MUST ACCOUNT FOR RANGE OF TIDAL ELEVATIONS WHEN PLACING MATERIAL IN THE SHALLOW NEARSHORE AREAS.
 - PRIOR TO REINSTATEMENT OF FENDER SYSTEM AT Y JETTY, CONTRACTOR MUST PLACE STRUCTURAL MATERIAL TYPE 1 IN ACCORDANCE WITH THE SEQUENCING REQUIREMENTS DESCRIBED IN THE SPECIFICATIONS.
 - BATHYMETRIC DATA ARE MISSING FROM SOME PORTIONS OF WORK SITE. PLACEMENT VOLUMES IN THESE AREAS WERE ESTIMATED AND ARE INCLUDED IN THE VOLUMES IN THE UNIT PRICE TABLE. THE POST-DREDGE AND POST-PLACEMENT SURFACES ARE ESTIMATED AND SHOWN FOR INFORMATIONAL PURPOSES. THE CONTRACTOR MUST CONFIRM PRE-CONSTRUCTION ELEVATIONS.



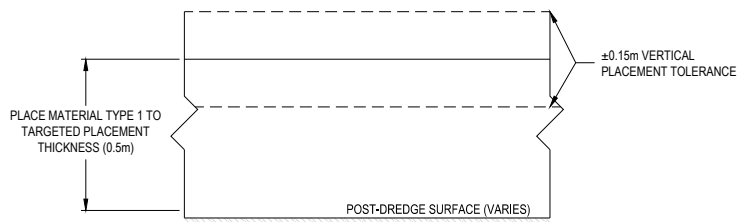


1 MATERIAL PLACEMENT AREA B1
SCALE: NTS

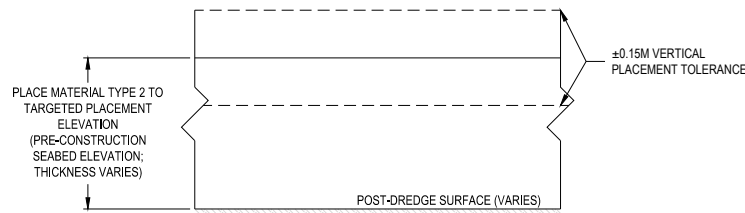


2 MATERIAL PLACEMENT AREA B1 AND MATERIAL PLACEMENT AREA B2 (UNDER Y JETTY)
SCALE: NTS

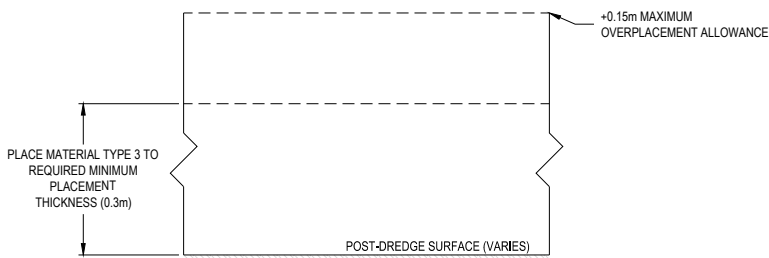
- LEGEND:
- PRE-CONSTRUCTION SEABED ELEVATION
 - POST-DREDGE SURFACE
 - TOP OF MATERIAL TYPE 1 PLACEMENT
 - XXXX MATERIAL TYPE 1 PLACEMENT (MATERIAL PLACEMENT AREA B2)
 - MATERIAL TYPE 1 PLACEMENT (MATERIAL PLACEMENT AREA B1)



3 MATERIAL PLACEMENT AREA B2
SCALE: NTS

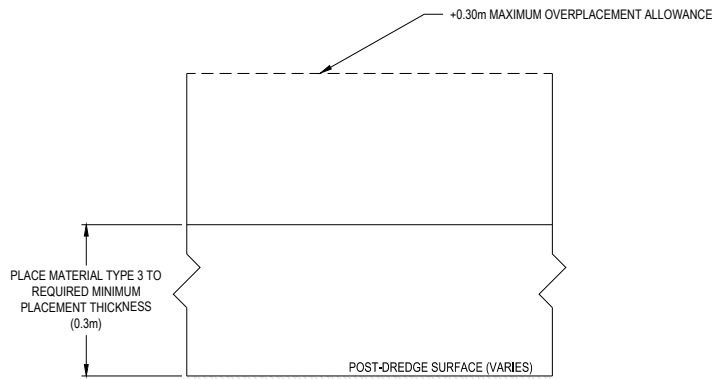


4 MATERIAL PLACEMENT AREA B3
SCALE: NTS



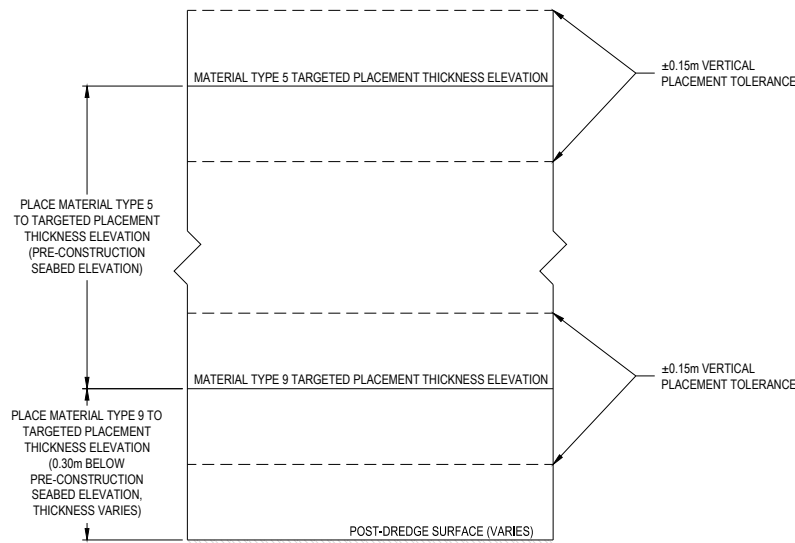
5 MATERIAL PLACEMENT AREA B4
SCALE: NTS

NOTE:
1. THE DEPARTMENTAL REPRESENTATIVE WILL REVIEW PLACEMENT AREAS WITH SLOPES STEEPER THAN 2H:1V THAT THE CONTRACTOR HAS COMPLETED TO DETERMINE WHETHER CONTRACTOR HAS CAREFULLY PLACED MATERIALS AND PROVIDED FULL PLACEMENT COVERAGE TO MEET THE SPECIFICATION REQUIREMENTS. THE DEPARTMENTAL REPRESENTATIVE WILL ACCEPT THOSE AREAS AS COMPLETED IF EVIDENCE EXISTS THAT THE MATERIAL DID NOT REMAIN STABLE.



6 MATERIAL PLACEMENT AREA B5
SCALE: NTS

NOTE:
1. THE DEPARTMENTAL REPRESENTATIVE WILL REVIEW PLACEMENT AREAS WITH SLOPES STEEPER THAN 2H:1V THAT THE CONTRACTOR HAS COMPLETED TO DETERMINE WHETHER CONTRACTOR HAS CAREFULLY PLACED MATERIALS AND PROVIDED FULL PLACEMENT COVERAGE TO MEET THE SPECIFICATION REQUIREMENTS. THE DEPARTMENTAL REPRESENTATIVE WILL ACCEPT THOSE AREAS AS COMPLETED IF EVIDENCE EXISTS THAT THE MATERIAL DID NOT REMAIN STABLE.



7 MATERIAL PLACEMENT AREA B6
SCALE: NTS

NOTE:
1. THE DEPARTMENTAL REPRESENTATIVE WILL REVIEW PLACEMENT AREAS WITH SLOPES STEEPER THAN 2H:1V THAT THE CONTRACTOR HAS COMPLETED TO DETERMINE WHETHER CONTRACTOR HAS CAREFULLY PLACED MATERIALS AND PROVIDED FULL PLACEMENT COVERAGE TO MEET THE SPECIFICATION REQUIREMENTS. THE DEPARTMENTAL REPRESENTATIVE WILL ACCEPT THOSE AREAS AS COMPLETED IF EVIDENCE EXISTS THAT THE MATERIAL DID NOT REMAIN STABLE.



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NOTES:
1. WITHIN MATERIAL PLACEMENT AREA B4, CONTRACTOR MUST PLACE MATERIAL TYPE 3 IN AREAS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE BASED ON RESULTS OF POST-DREDGE CONFIRMATIONAL SAMPLING AFTER OPTIONAL CONTINGENCY RE-DREDGING HAS BEEN COMPLETED.

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

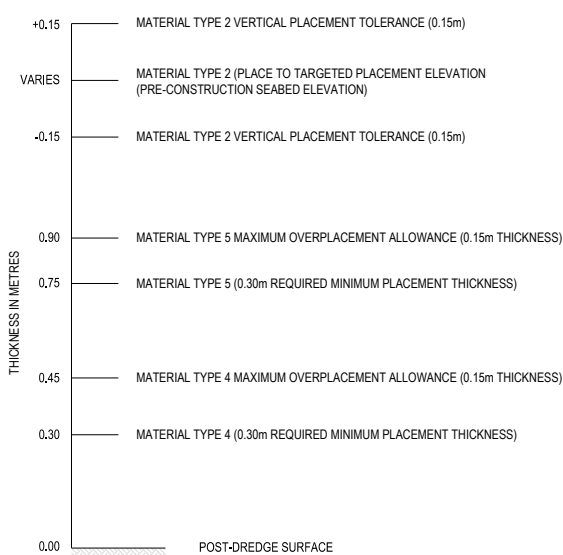
PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL
DATE
2018-08-02

SUBJECT | SUJET
BACKFILL MATERIAL AND
ENGINEERED CAPPING
DETAILS (1 OF 2)

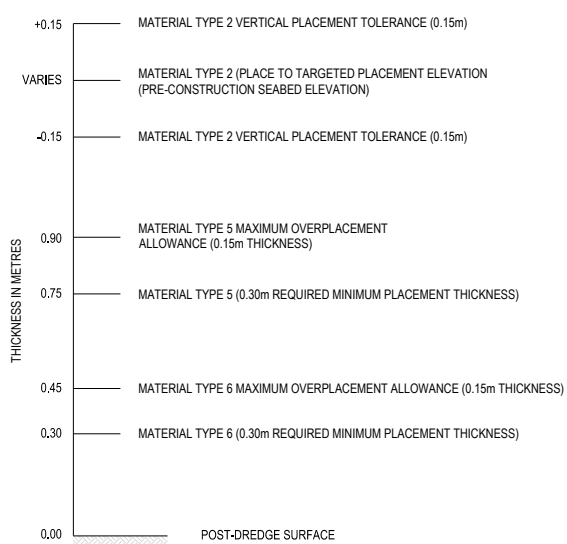
PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. PICKERING	XX XX	X.X.	
DRAWN DESSINÉ	C. HEWETT		PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ	T. WANG		DES MGR GEST CONC
COORDINATION			FIRE INCENDIE

WBS NO. NO. OTP L-23	PF NO. NO. DP R.097231.001
DWG. NO. NO. DESSIN	C-11



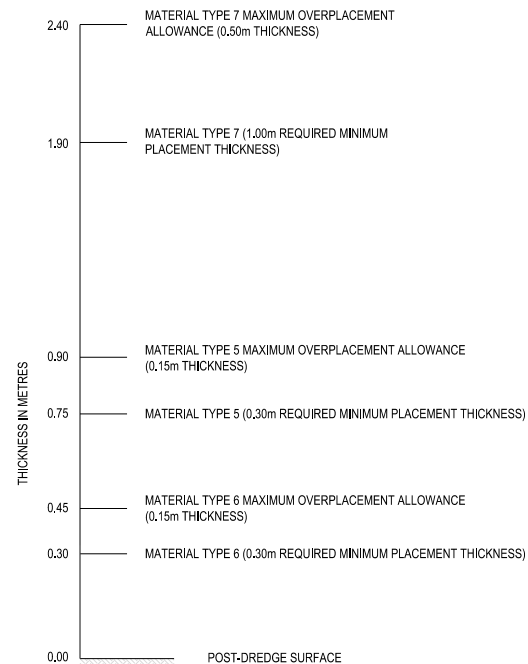
8 MATERIAL PLACEMENT AREA C1

SCALE: NTS
NOTE: THE MAXIMUM OVERPLACEMENT ALLOWANCE IS THE MAXIMUM ALLOWABLE THICKNESS ABOVE THE REQUIRED MINIMUM PLACEMENT THICKNESS THAT WILL BE PAID FOR. ADDITIONAL PLACEMENT ABOVE THE MAXIMUM OVERPLACEMENT TOLERANCE WILL BE CONSIDERED EXCESSIVE OVERPLACEMENT AND WILL NOT BE PAID. THE DEPARTMENTAL REPRESENTATIVE MAY DIRECT THE CONTRACTOR TO REMOVE EXCESSIVE OVERPLACEMENT AT NO EXTRA COST TO CANADA.



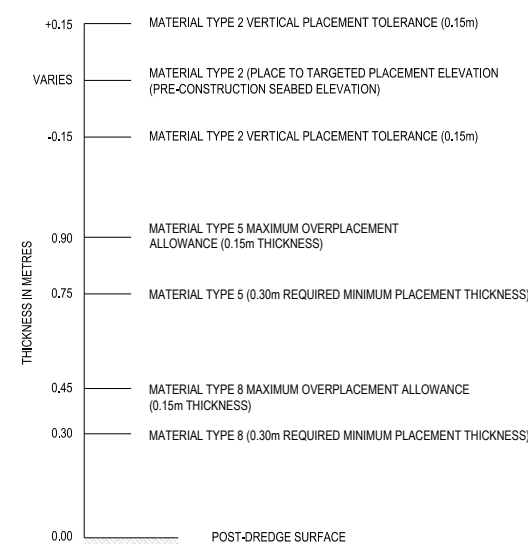
9 MATERIAL PLACEMENT AREA C2

SCALE: NTS
NOTE: THE MAXIMUM OVERPLACEMENT ALLOWANCE IS THE MAXIMUM ALLOWABLE THICKNESS ABOVE THE REQUIRED MINIMUM PLACEMENT THICKNESS THAT WILL BE PAID FOR. ADDITIONAL PLACEMENT ABOVE THE MAXIMUM OVERPLACEMENT TOLERANCE WILL BE CONSIDERED EXCESSIVE OVERPLACEMENT AND WILL NOT BE PAID. THE DEPARTMENTAL REPRESENTATIVE MAY DIRECT THE CONTRACTOR TO REMOVE EXCESSIVE OVERPLACEMENT AT NO EXTRA COST TO CANADA.



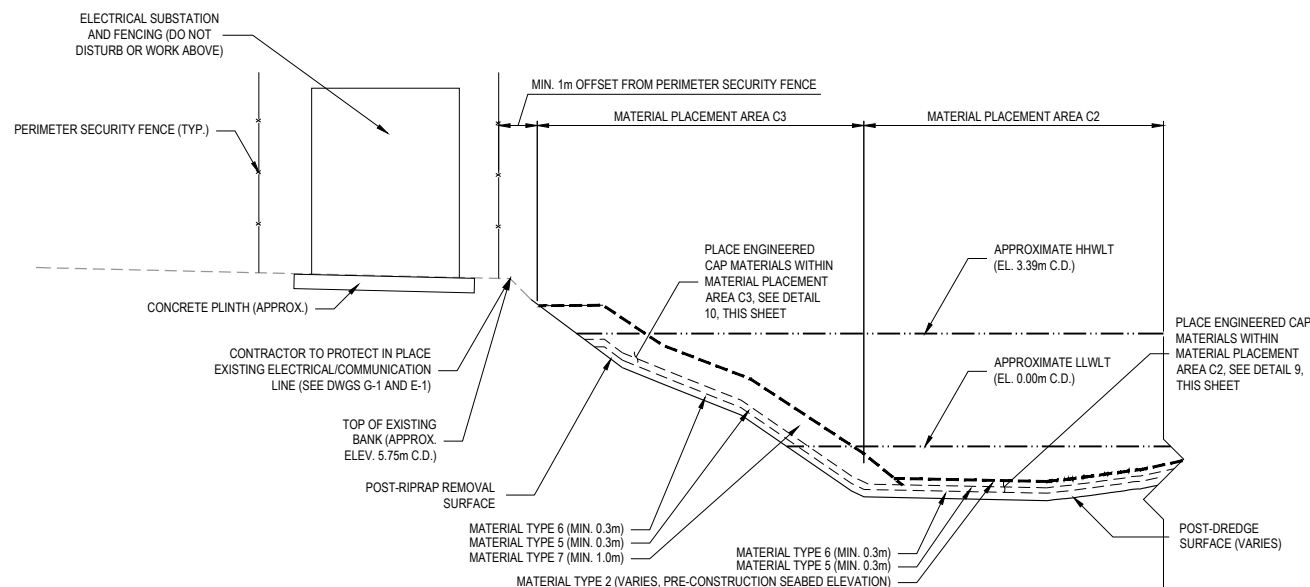
10 MATERIAL PLACEMENT AREA C3

SCALE: NTS
NOTE: THE MAXIMUM OVERPLACEMENT ALLOWANCE IS THE MAXIMUM ALLOWABLE THICKNESS ABOVE THE REQUIRED MINIMUM PLACEMENT THICKNESS THAT WILL BE PAID FOR. ADDITIONAL PLACEMENT ABOVE THE MAXIMUM OVERPLACEMENT TOLERANCE WILL BE CONSIDERED EXCESSIVE OVERPLACEMENT AND WILL NOT BE PAID. THE DEPARTMENTAL REPRESENTATIVE MAY DIRECT THE CONTRACTOR TO REMOVE EXCESSIVE OVERPLACEMENT AT NO EXTRA COST TO CANADA.



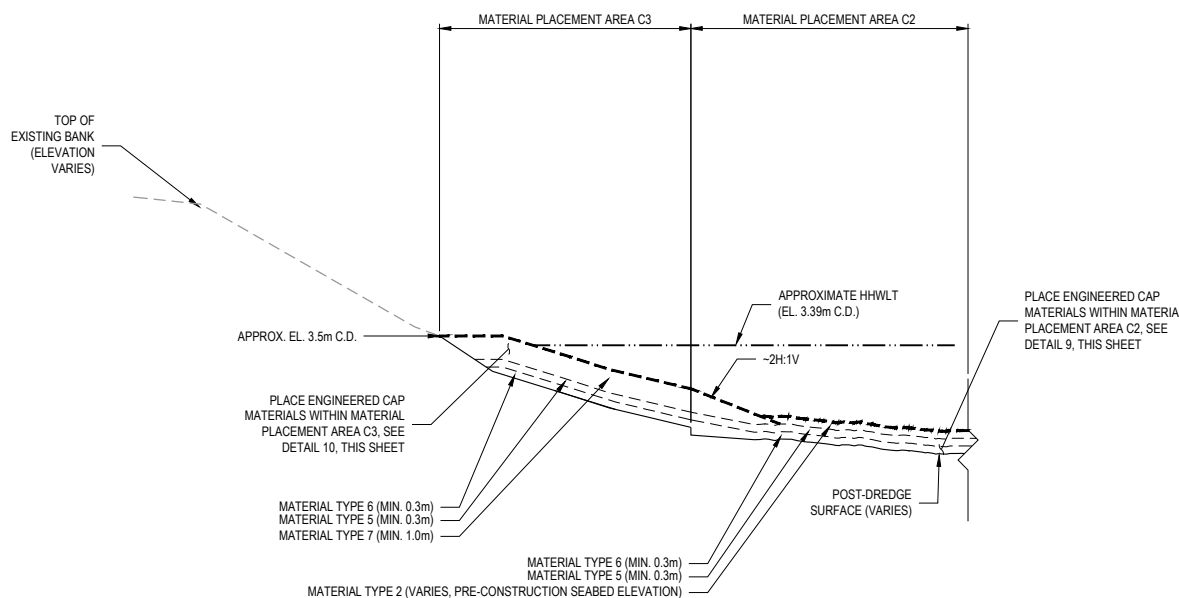
11 MATERIAL PLACEMENT AREA C4

SCALE: NTS
NOTE: THE MAXIMUM OVERPLACEMENT ALLOWANCE IS THE MAXIMUM ALLOWABLE THICKNESS ABOVE THE REQUIRED MINIMUM PLACEMENT THICKNESS THAT WILL BE PAID FOR. ADDITIONAL PLACEMENT ABOVE THE MAXIMUM OVERPLACEMENT TOLERANCE WILL BE CONSIDERED EXCESSIVE OVERPLACEMENT AND WILL NOT BE PAID. THE DEPARTMENTAL REPRESENTATIVE MAY DIRECT THE CONTRACTOR TO REMOVE EXCESSIVE OVERPLACEMENT AT NO EXTRA COST TO CANADA.



12 MATERIAL PLACEMENT AREA C3 - DU30

SCALE: NTS



13 MATERIAL PLACEMENT AREA C3 - DU29

SCALE: NTS



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NOTES:
1. MATERIAL TYPE 4 AND MATERIAL TYPE 6 MUST BE AMENDED WITH GRANULAR ACTIVATED CARBON (GAC) AS REQUIRED IN SECTION 35 37 10 (CAPPING AND MATERIAL PLACEMENT) OF THE SPECIFICATIONS.

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018-08-02

SUBJECT | SUJET
BACKFILL MATERIAL AND
ENGINEERED CAPPING
DETAILS (2 OF 2)

DESIGNED ÉTUDIÉ	XX XX	DES O AGENT CONC
R. PICKERING	X.X.	
DRAWN DESSINÉ		PROJ MGR GEST PROJ
C. HEWETT		
CHECKED VÉRIFIÉ		DES MGR GEST CONC
T. WANG		
COORDINATION		FIRE INCENDIE

WBS NO. | NO. OTP
L-23

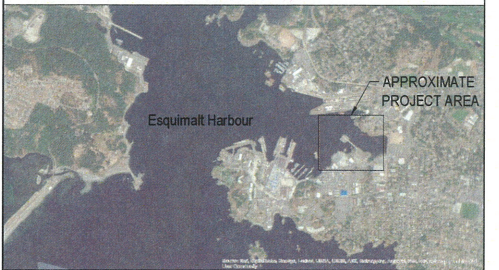
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R.097231.001

DWG. NO. | NO. DESSIN
C-12

Canada

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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED APRIL 2016.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

NOTES:

1. CHART DATUM (CD) IS 1.89m BELOW CANADIAN GEODETIC DATUM (GD)
2. DIMENSIONS ARE SHOWN IN mm UNLESS NOTED OTHERWISE
3. Y JETTY LOCATION AND ORIENTATION BASED ON STRUCTURAL RECORD DRAWINGS (SANDWELL, 1999)
4. DREDGE LIMITS ARE BASED ON CONDITION AND ARRANGEMENT OF EXISTING STRUCTURES.
5. REFERENCE DRAWINGS:
 - 1999 STRUCTURAL RECORD DRAWINGS
 - 2007 STRUCTURAL RETROFIT AS-BUILTS

0 2018-08-02 ISSUED FOR TENDER

NO. DATE REVISION APPR.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT

Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET

EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018/08/02

SUBJECT | SUJET

Y JETTY
EXISTING ARRANGEMENT
SHEET 1 OF 4

DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
D.J. LAWSON		PROJ MGR GEST PROJ
DRAWN DESSINÉ		DES MGR GEST CONC
K.VANDERVEEN		
CHECKED VÉRIFIÉ		
G.COOPER		
COORDINATION		FIRE INCENDIE

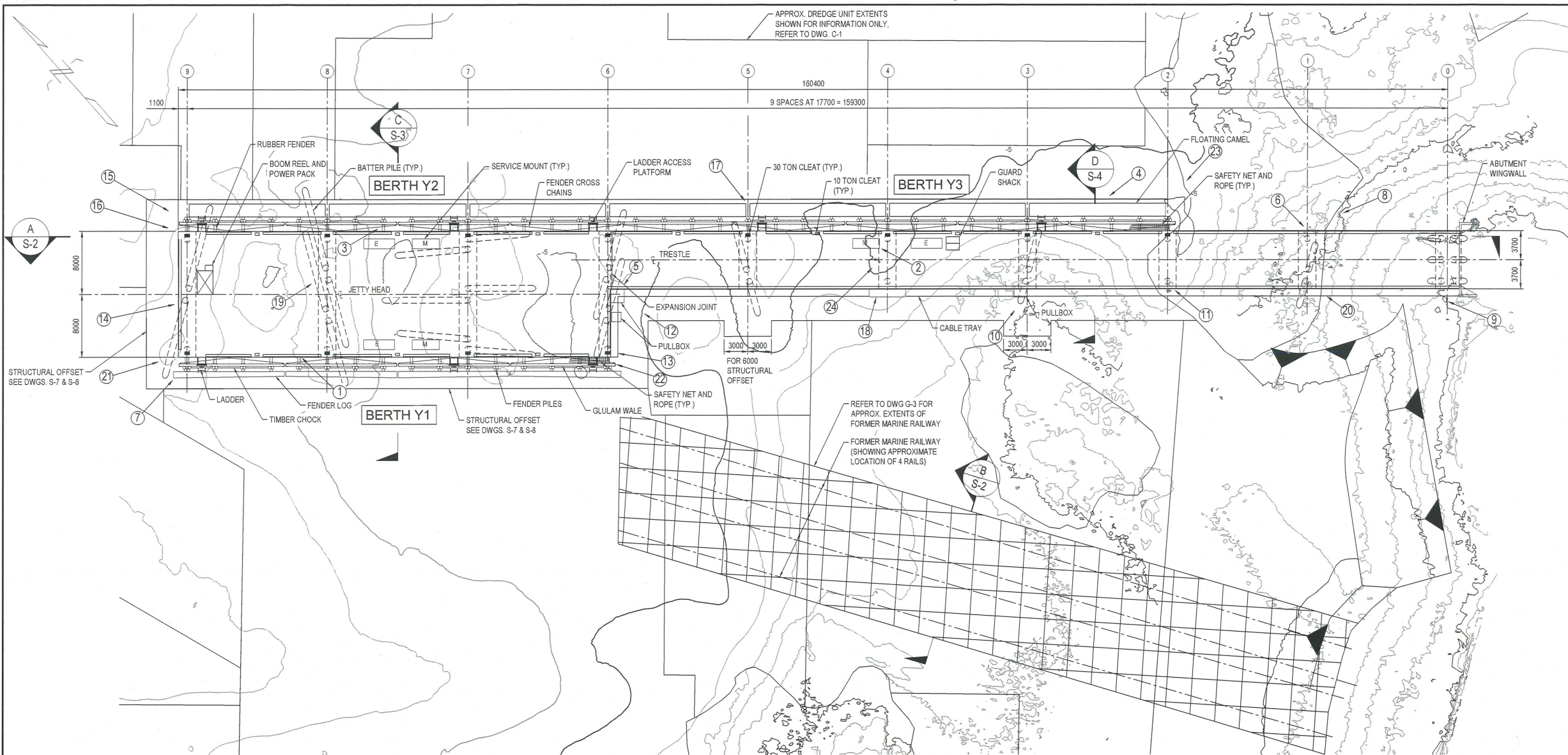
WBS NO. | NO. OTP
L-23

PF NO. | NO. DP
R.097231.001

DWG. NO. | NO. DESSIN

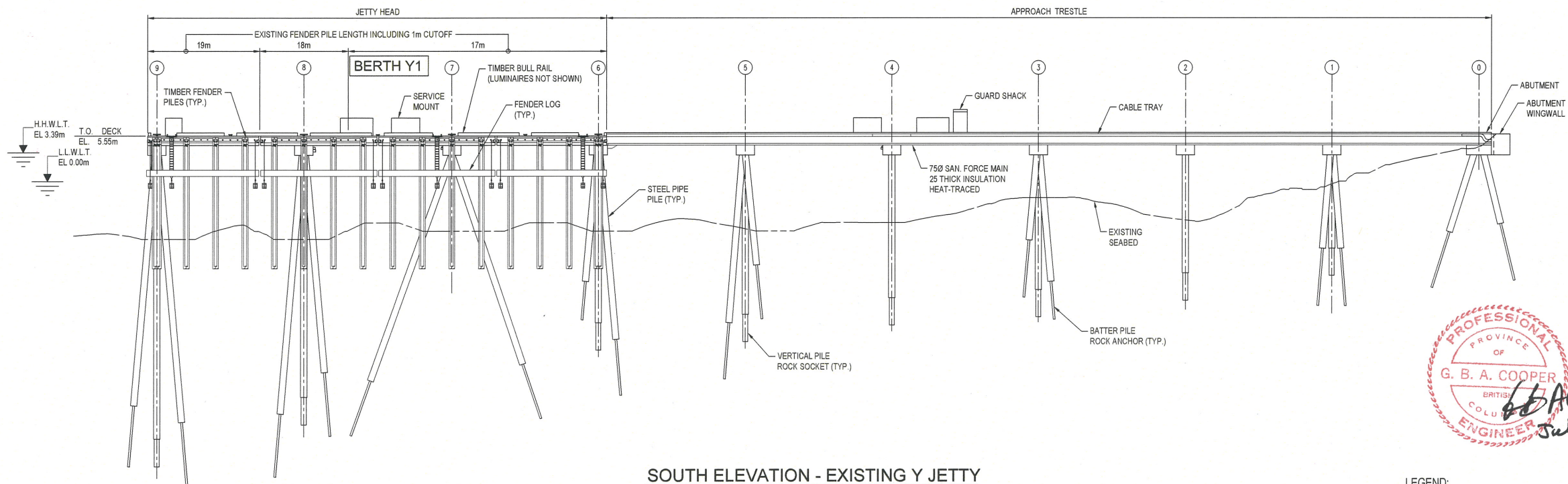
S-1

Canada



PLAN - EXISTING Y JETTY

SCALE: 1:300



SOUTH ELEVATION - EXISTING Y JETTY

SCALE: 1:300 BEDROCK NOT SHOWN



LEGEND:

- 30 TON CLEAT
- 10 TON CLEAT
- M MECHANICAL SERVICE MOUNT
- E ELECTRICAL SERVICE MOUNT
- BERTH Y: BERTH NAME
- (X) SEE DRAWING S-10 AND S-11 FOR PHOTOS

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
TO BE REVIEWED | À ÊTRE RÉVISÉ

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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED APRIL 2016.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83
VERTICAL DATUM: CHART DATUM (CD)

- NOTES:
- CHART DATUM (CD) IS 1.89m BELOW CANADIAN GEODETIC DATUM (GD).
 - DIMENSIONS ARE SHOWN IN mm UNLESS NOTED OTHERWISE.
 - REFERENCE DRAWINGS:
 - 1999 STRUCTURAL RECORD DRAWINGS
 - 2007 STRUCTURAL RETROFIT AS-BUILTS
 - SEE STRUCTURAL RECORD DRAWINGS FOR CATHODIC PROTECTION ANODE STRING LOCATIONS AND DISPOSITION.

NO.	DATE	REVISION	APPR.
0	2018-08-02	ISSUED FOR TENDER	

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
**Y JETTY AND LANG COVE
CFB ESQUIMALT**

PROJECT | PROJET
**EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018/08/02

SUBJECT | SUJET

**Y JETTY
EXISTING ARRANGEMENT
SHEET 2 OF 4**

PRODUCTION	REVIEWED REVU	DES O AGENT CONC
DESIGNED ÉTUDIÉ D.J. LAWSON		PROJ MGR GEST PROJ
DRAWN DESSINÉ K.VANDERVEEN		DES MGR GEST CONC
CHECKED VÉRIFIÉ G.COOPER		FIRE INCENDIE
COORDINATION		

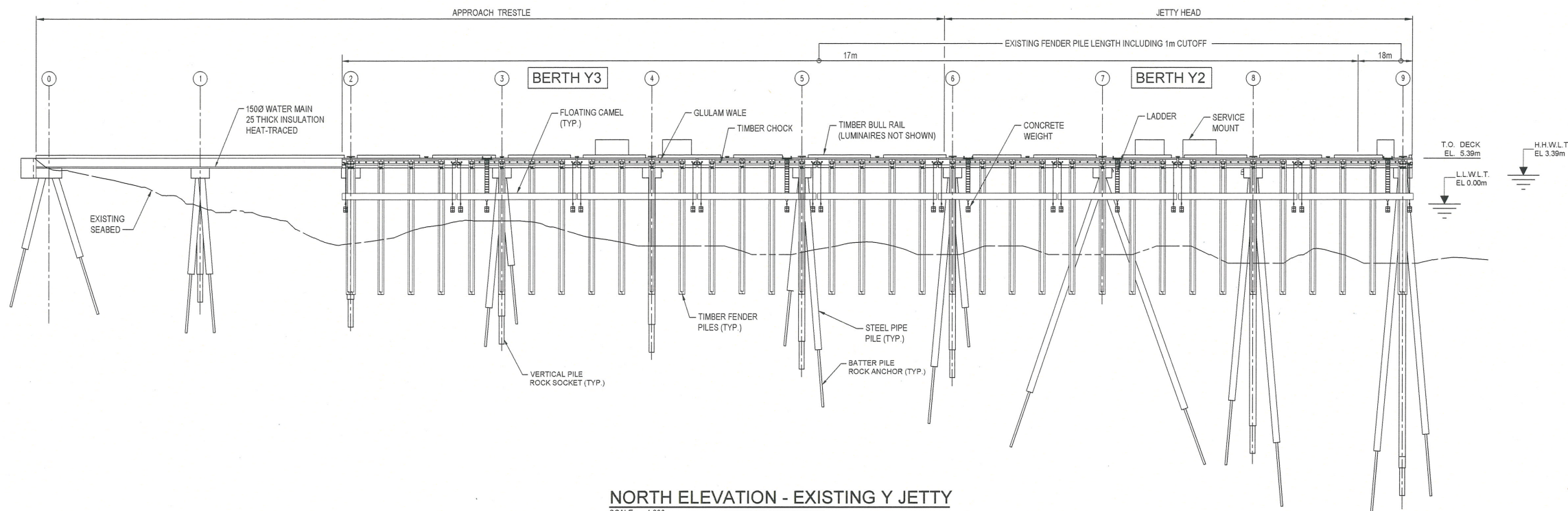
WBS NO. | NO. OTP
L-23

PF NO. | NO. DP
R.097231.001

DWG. NO. | NO. DESSIN

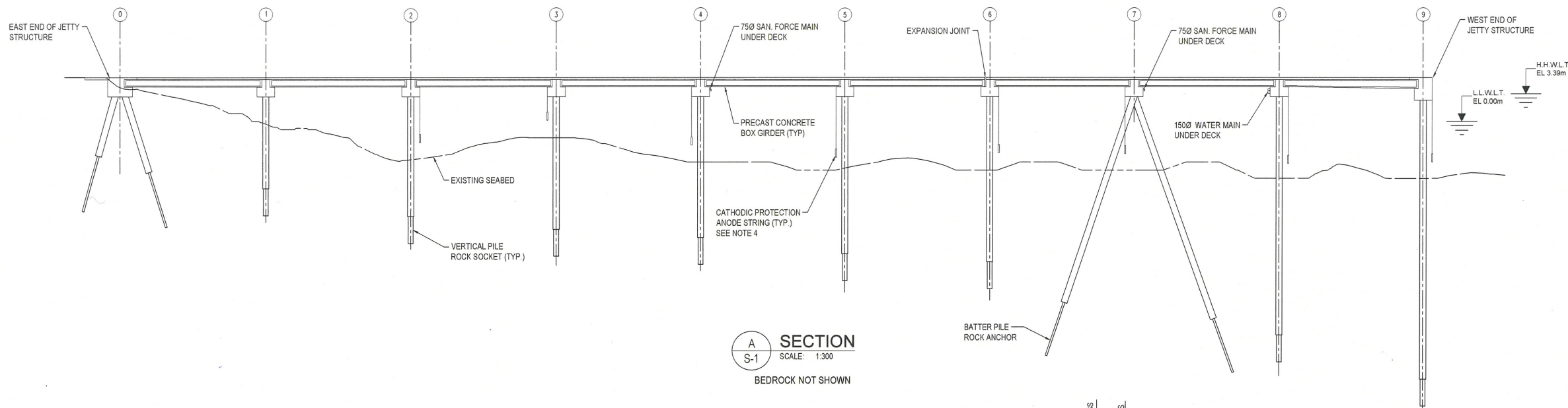
S-2

Canada

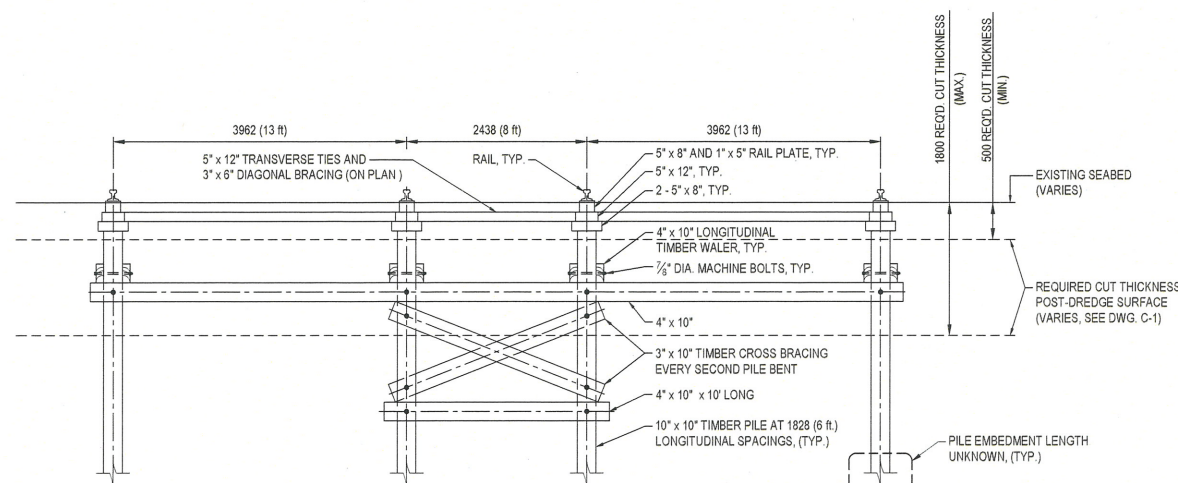


NORTH ELEVATION - EXISTING Y JETTY

SCALE: 1:300
BEDROCK NOT SHOWN
LOOKING SOUTH



**SECTION
A
S-1**
SCALE: 1:300
BEDROCK NOT SHOWN



- NOTES:
- TYPICAL SECTION AND DETAILS REPRESENTATIVE OF 4-RAIL FORMER MARINE RAILWAY SUPPORT STRUCTURE, (INFERRED FROM DETAILS OF SIMILAR 2-RAIL MARINE RAILWAY STRUCTURE ADJACENT TO C JETTY AND ML FLOATS.)
 - NO RECORD DRAWINGS SHOWING SUBSTRUCTURE DETAILS ARE KNOWN TO EXIST FOR THIS 4-RAIL FORMER MARINE RAILWAY ADJACENT TO Y JETTY.
 - REFER ALSO TO THE REFERENCE DRAWINGS.

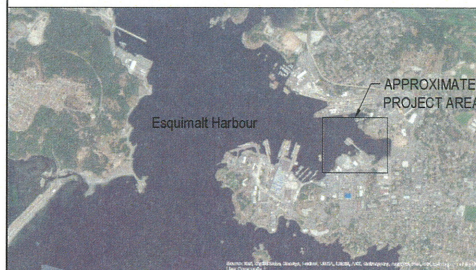
WORK SEQUENCE:

- IDENTIFY LOCATION AND EXTENT OF FORMER MARINE RAILWAY SUBSTRUCTURE BY PROBING THE SEABED AND CONFIRM BY DIVE INSPECTION.
- INSTALL TEMPORARY MARKERS/BUOYS TO SHOW LOCATION AND EXTENT OF IDENTIFIED SUBSTRUCTURE.
- PERFORM REQUIRED DREDGING ON BOTH SIDES DIRECTLY ADJACENT TO THE MARINE RAILWAY SUBSTRUCTURE.
- REMOVE MARINE RAILWAY RAILS, RAIL SUPPORT BEAMS/TIES, LONGITUDINAL WALER BEAMS, BRACINGS, AND TIMBER PILING (AT MINIMUM THE PORTION WITHIN THE REQUIRED DREDGE CUT).
- VERIFY REMOVAL OF RAILS AND TIMBER COMPONENTS BY DIVE SURVEY.
- PERFORM REMAINDER OF REQUIRED DREDGING.

PROFESSIONAL
OF
G. B. A. COOPER
BRITISH
COLUMBIA
ENGINEER
July 31/18

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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED APRIL 2016.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83
VERTICAL DATUM: CHART DATUM (CD)

- NOTES:
- CHART DATUM (CD) IS 1.89m BELOW CANADIAN GEODETIC DATUM (GD)
 - DIMENSIONS ARE SHOWN IN mm UNLESS NOTED OTHERWISE
 - REFERENCE DRAWINGS:
-1999 STRUCTURAL RECORD DRAWINGS
-2007 STRUCTURAL RETROFIT AS-BUILT
 - FOR UTILITY PROTECTION SYSTEM AND PILE PROTECTION SYSTEM, BOTH TO BE DESIGNED BY THE CONTRACTOR, REFER TO SPECIFICATIONS
 - SEE STRUCTURAL RECORD DRAWINGS FOR CATHODIC PROTECTION ANODE STRING LOCATIONS AND DISPOSITION
 - REFER TO STRUCTURAL RECORD DRAWINGS FOR FENDER SYSTEM CONNECTION DETAILS

NO.	DATE	REVISION	APPR.
0	2018-08-02	ISSUED FOR TENDER	

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
**Y JETTY AND LANG COVE
CFB ESQUIMALT**

PROJECT | PROJET
**EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018/08/02

SUBJECT | SUJET

**Y JETTY
EXISTING ARRANGEMENT
SHEET 3 OF 4**

PRODUCTION	DESIGNED ÉTUDE	REVIEWED REVU	DES O AGENT CONC
	D.J. LAWSON		
	DRAWN DESSINÉ		PROJ MGR GEST PROJ
	K. VANDERVEEN		
	CHECKED VÉRIFIÉ		DES MGR GEST CONC
	G. COOPER		
	COORDINATION		FIRE INCENDIE

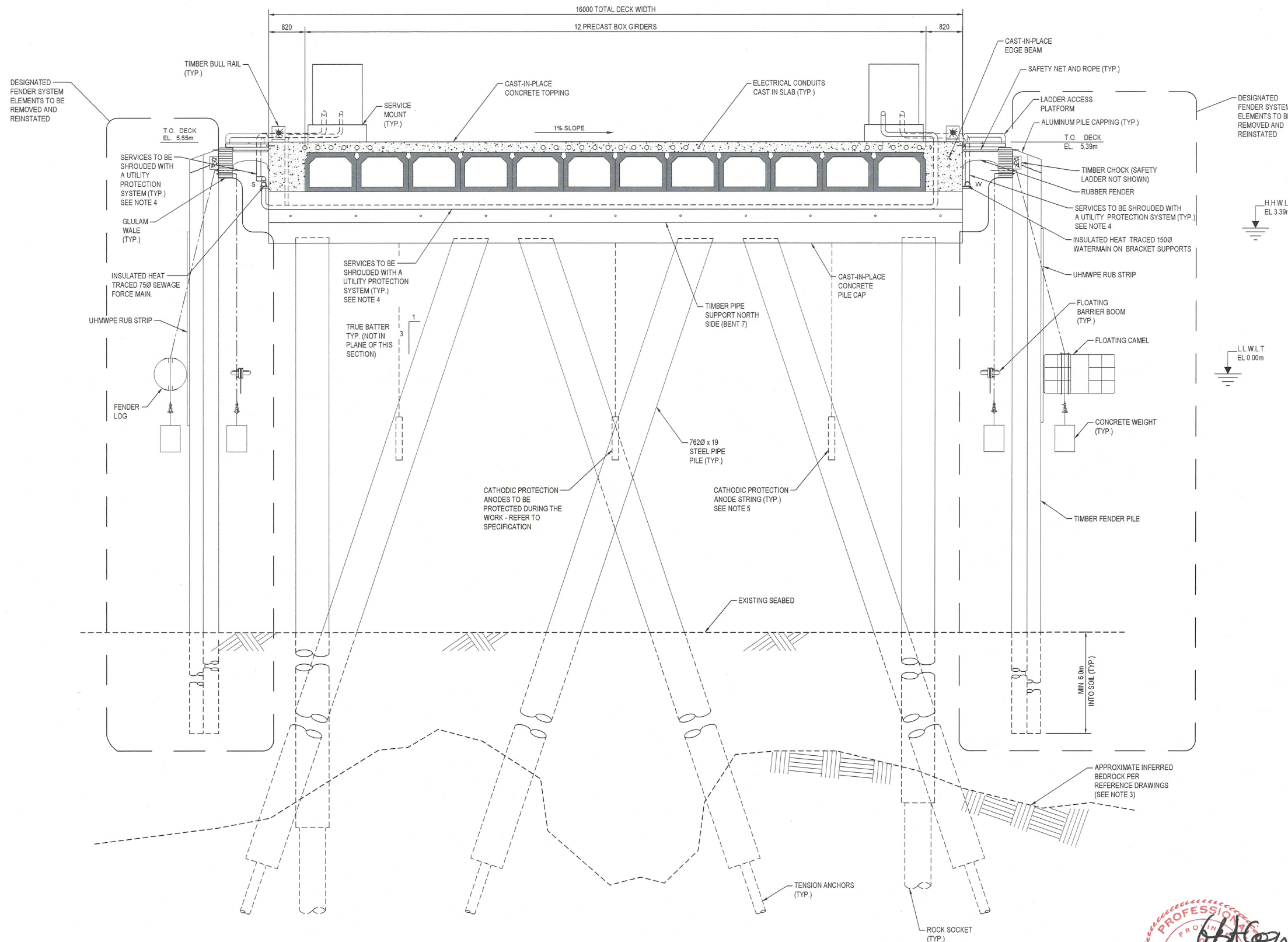
WBS NO. | NO. OTP
L-23

PF NO. | NO. DP
R.097231.001

DWG. NO. | NO. DESSIN

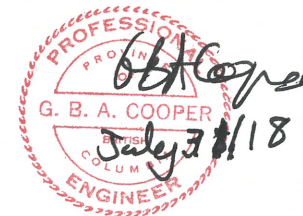
S-3

Canada



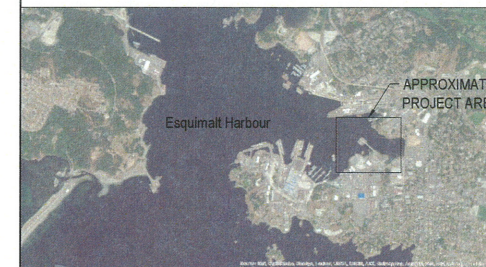
**SECTION
S-1**
SCALE 1:50
JETTY HEAD

LEGEND:
S SEWAGE FORCE MAIN
W WATER MAIN



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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED APRIL 2016.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
1. CHART DATUM (CD) IS 1.39m BELOW CANADIAN GEODETIC DATUM (GD)
 2. DIMENSIONS ARE SHOWN IN mm UNLESS NOTED OTHERWISE.
 3. REFERENCE DRAWINGS
-1999 STRUCTURAL RECORD DRAWINGS
-2007 STRUCTURAL RETROFIT AS-BUILT
 4. FOR UTILITY PROTECTION SYSTEM AND PILE PROTECTION SYSTEM, BOTH TO BE DESIGNED BY THE CONTRACTOR, REFER TO SPECIFICATIONS.
 5. SEE STRUCTURAL RECORD DRAWINGS FOR CATHODIC PROTECTION ANODE STRING LOCATIONS AND DISPOSITION.
 6. REFER TO STRUCTURAL RECORD DRAWINGS FOR FENDER SYSTEM CONNECTION DETAILS.

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
**Y JETTY AND LANG COVE
CFB ESQUIMALT**

PROJECT | PROJET
**EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018/08/02

SUBJECT | SUJET
**Y JETTY
EXISTING ARRANGEMENT
SHEET 4 OF 4**

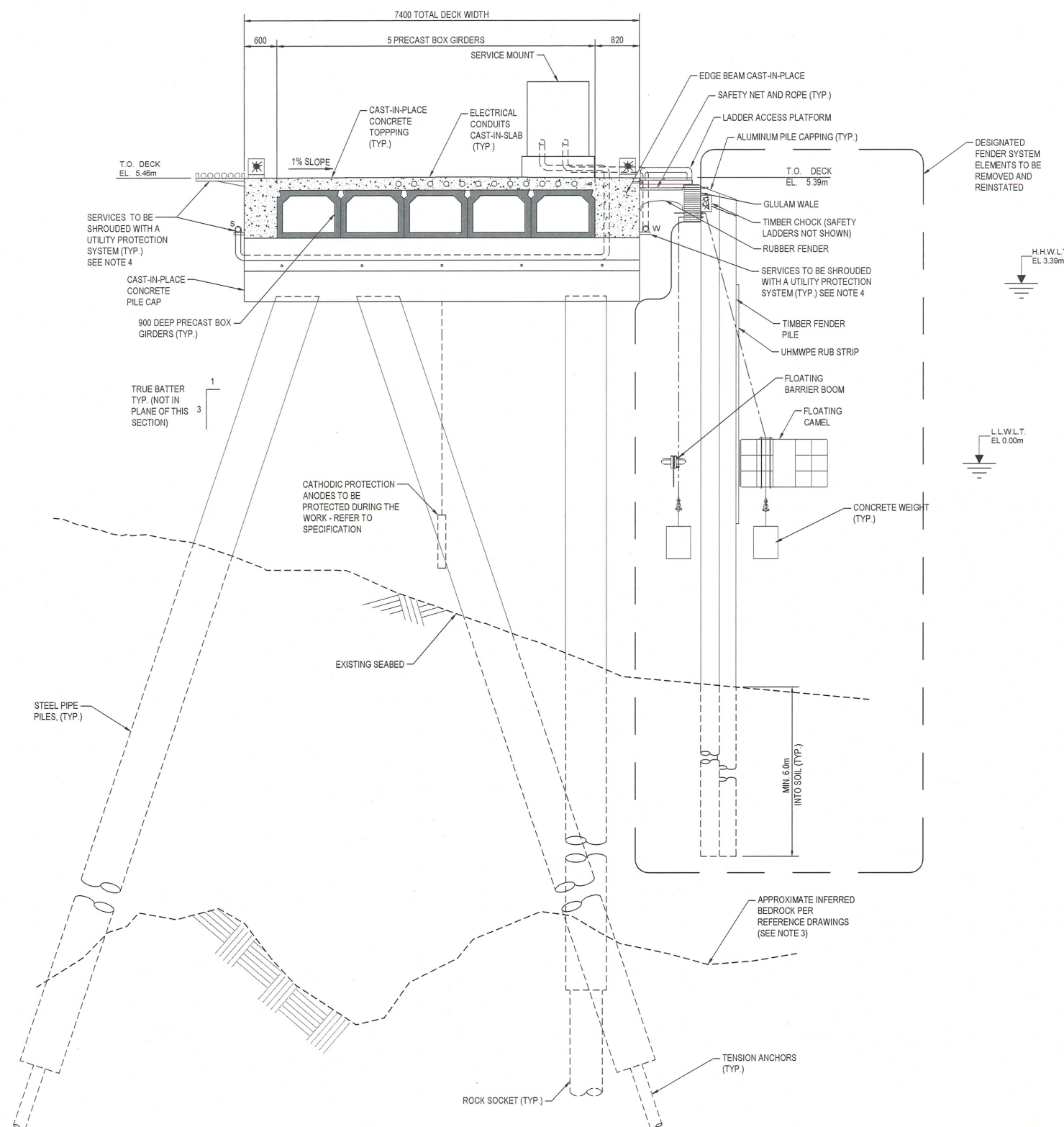
DESIGNED ÉTUDIÉ	DES O AGENT CONC
D.J. LAWSON	PROJ MGR GEST PROJ
DRAWN DESSINÉ	DES MGR GEST CONC
K.VANDERVEEN	FIRE INCENDIE
CHECKED VÉRIFIÉ	
G.COOPER	
COORDINATION	

WBS NO. | NO. OTP
L-23

PF NO. | NO. DP
R.097231.001

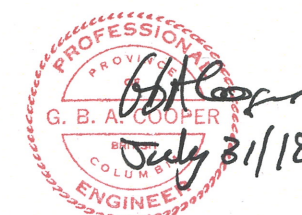
DWG. NO. | NO. DESSIN
S-4

Canada



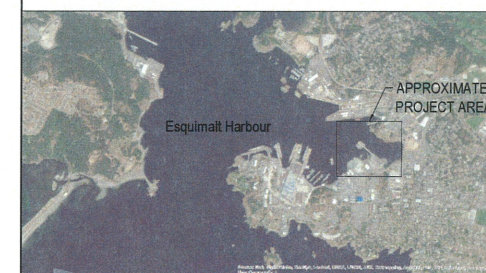
**SECTION
S-1
SCALE: 1:50
TRESTLE**

LEGEND:
S SEWAGE FORCE MAIN
W WATER MAIN

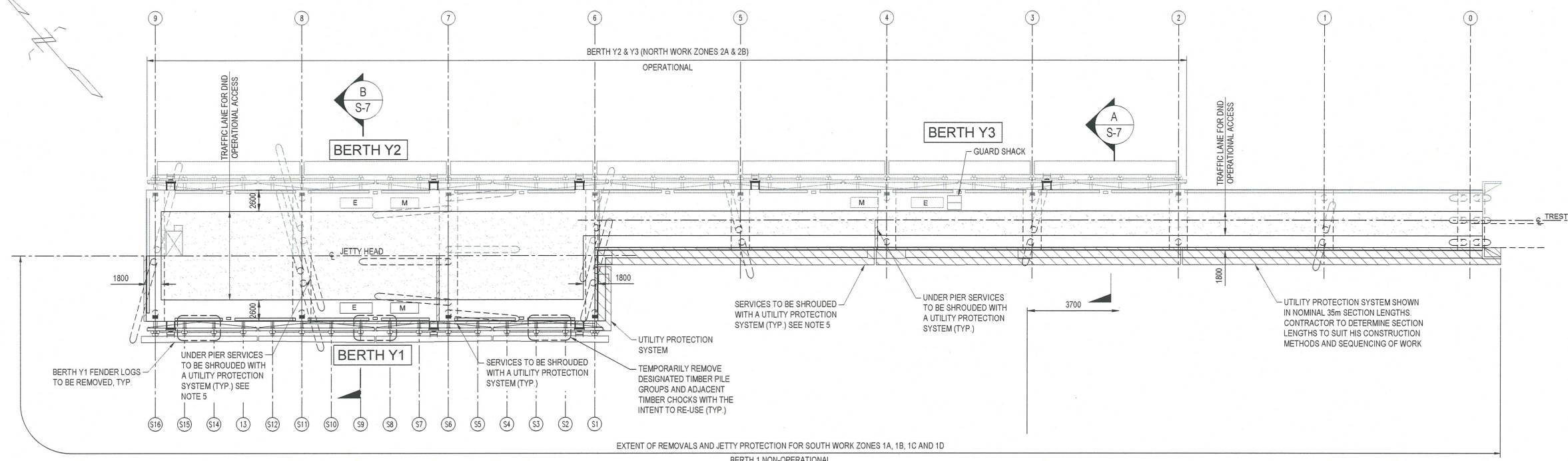


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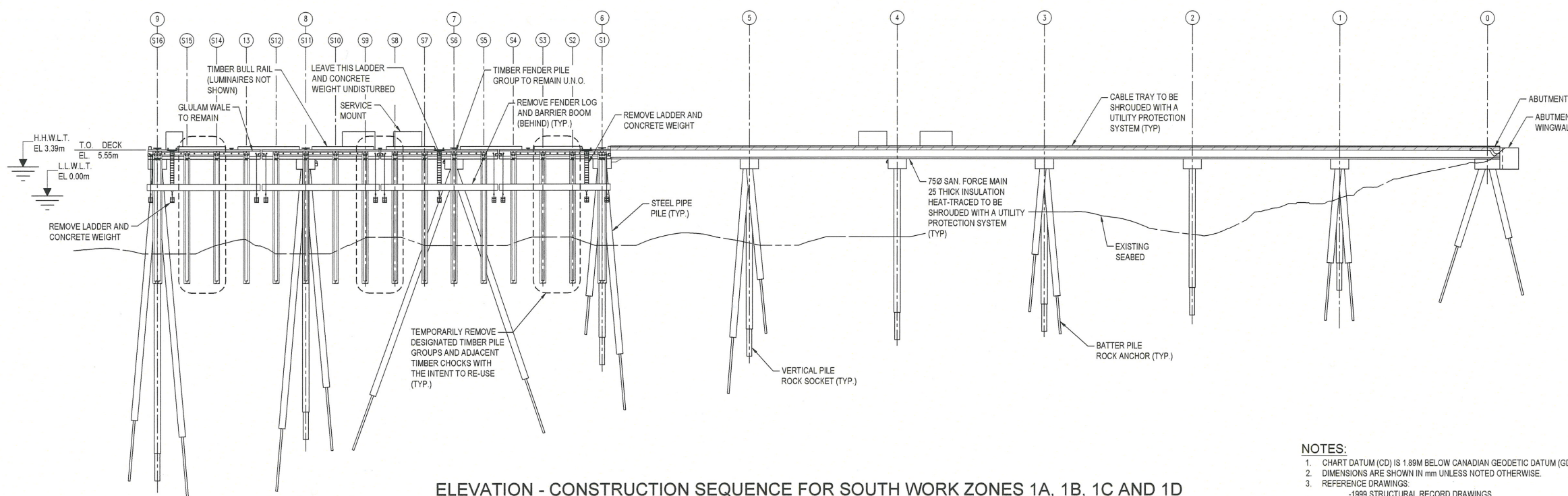


SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED APRIL 2016.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).



PLAN - CONSTRUCTION SEQUENCE FOR SOUTH WORK ZONES 1A, 1B, 1C AND 1D

SCALE: 1:300



ELEVATION - CONSTRUCTION SEQUENCE FOR SOUTH WORK ZONES 1A, 1B, 1C AND 1D

SCALE: 1:300

BEDROCK NOT SHOWN
(LOOKING NORTH)

DESIGNATED TIMBER FENDER PILE GROUPS TO BE REMOVED WITH THE INTENT TO REINSTATE	S2, S3, S8, S9, S14, S15
---	--------------------------

NOTES:

- CHART DATUM (CD) IS 1.89M BELOW CANADIAN GEODETIC DATUM (GD).
- DIMENSIONS ARE SHOWN IN mm UNLESS NOTED OTHERWISE.
- REFERENCE DRAWINGS:
 - 1999 STRUCTURAL RECORD DRAWINGS
 - 2007 STRUCTURAL RETROFIT AS-BUILTS
- SEE DRAWING G-2 REMEDIATION SEQUENCE PLAN FOR WORK ZONE SEQUENCING
- FOR UTILITY PROTECTION SYSTEM AND PILE PROTECTION SYSTEM, BOTH TO BE DESIGNED BY THE CONTRACTOR, REFER TO SPECIFICATIONS.
- PARTIAL FENDERING SYSTEM REMOVAL SEQUENCE INCLUDES:
 - a) STAGED REMOVAL AND STORAGE OF FENDERING COMPONENTS DESIGNATED FOR REMOVAL WITH INTENT TO REINSTATE (NOTE: FENDERING COMPONENTS DESIGNATED FOR TEMPORARY REMOVAL INCLUDES SELECT FENDER PILE GROUPS, SELECT LADDERS, SELECT TIMBER CHOCKS, CONCRETE WEIGHTS, GUIDE WIRES AND BARRIER BOOM).
 - b) INSTALLATION OF THE UTILITY PROTECTION SYSTEM AND PIPE PILE PROTECTION SYSTEM.
 - c) COMPLETE MATERIAL PLACEMENT ACTIVITIES IN CORRESPONDING WORK ZONE PORTION OF MATERIAL PLACEMENT AREA B2.
- REINSTATEMENT SEQUENCE INCLUDES THE REMOVAL OF THE UTILITY PROTECTION SYSTEM AND PILE PROTECTION SYSTEM AND THE REINSTALLATION OF REMOVED FENDER SYSTEM COMPONENTS.
- PRIOR TO REINSTALLATION OF TIMBER FENDER PILES, COMPLETE MATERIAL PLACEMENT ACTIVITIES IN MATERIAL PLACEMENT AREA B1.
- STORE REMOVED FENDER ITEMS AND FENDER PILES WITHIN THE WORK SITE, AT LOCATION ACCEPTABLE TO DEPARTMENTAL REPRESENTATIVE.
- REINSTALL TIMBER FENDER PILES, TIMBER CHOCKS AND ALL OTHER REMOVED COMPONENTS TO MATCH EXISTING ARRANGEMENT AND DETAILS.
- CONTRACTOR TO COMPLY WITH STRUCTURAL DREDGING OFFSETS AS PER DRAWING C-1.
- MINIMIZE TIMBER CHOCK REMOVAL TO THE MINIMUM REQUIRED FOR PILE REMOVAL AND REINSTALLATION.
- INCLUDE NEW ANNEALED ALUMINUM CAPS 0.8mm THK ON ALL REINSTALLED TIMBER PILES, REFER TO SPECIFICATION.

LEGEND:

- UTILITY PROTECTION SYSTEM
- TRAFFIC LANE FOR DND OPERATIONAL ACCESS

0	2018-08-02	ISSUED FOR TENDER	
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NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
**Y JETTY AND LANG COVE
CFB ESQUIMALT**

PROJECT | PROJET
**EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018/08/02

SUBJECT | SUJET
**Y JETTY
CONSTRUCTION SEQUENCE PLAN
SHEET 1 OF 2**

PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
	D.J. LAWSON		
DRAWN DESSINÉ	CHECKED VÉRIFIÉ	COORDINATION	PROJ MGR GEST PROJ
	K.VANDERVEEN		
	G.COOPER		DES MGR GEST CONC
			FIRE INCENDIE

WBS NO | NO. OTP
L-23

PF NO. | NO. DP
R.097231.001

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S-5

Canada



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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED APRIL 2016.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

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NO.	DATE	REVISION	APPR.
SCALE ÉCHELLE			

LOCATION | EMPLACEMENT
**Y JETTY AND LANG COVE
CFB ESQUIMALT**

PROJECT | PROJET
**EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018/08/02

SUBJECT | SUJET
**Y JETTY
CONSTRUCTION SEQUENCE PLAN
SHEET 2 OF 2**

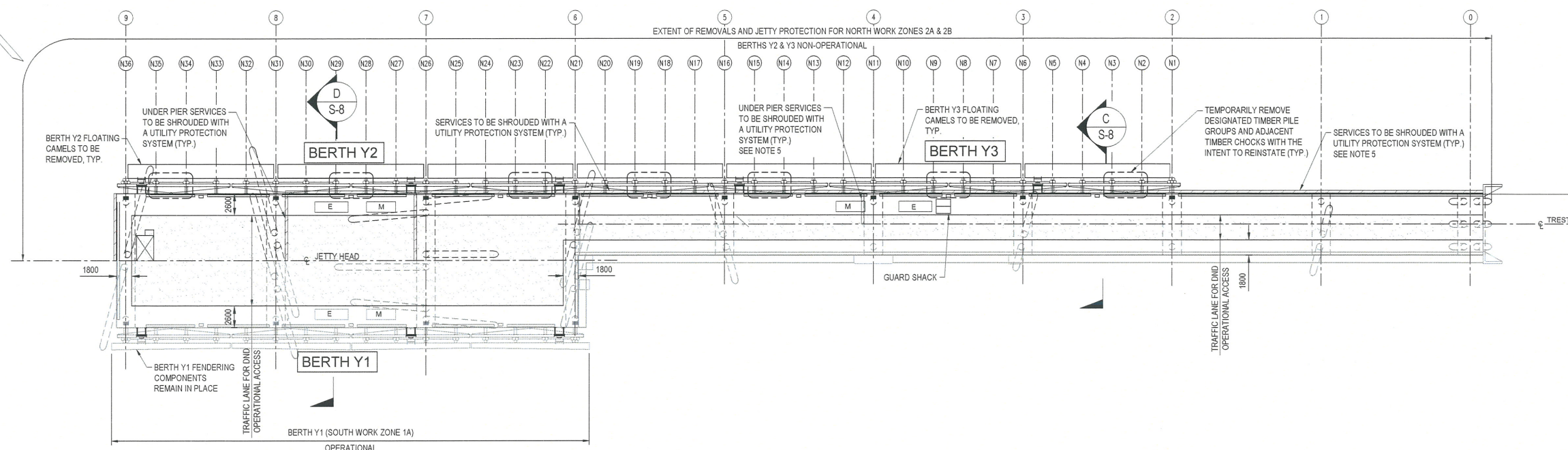
DESIGNED ÉTUDIÉ	DES O AGENT CONC
D.J. LAWSON	PROJ MGR GEST PROJ
DRAWN DESSINÉ	
K.VANDERVEEN	DES MGR GEST CONC
CHECKED VÉRIFIÉ	
G.COOPER	FIRE INCENDIE
COORDINATION	

WBS NO. | NO. OTP
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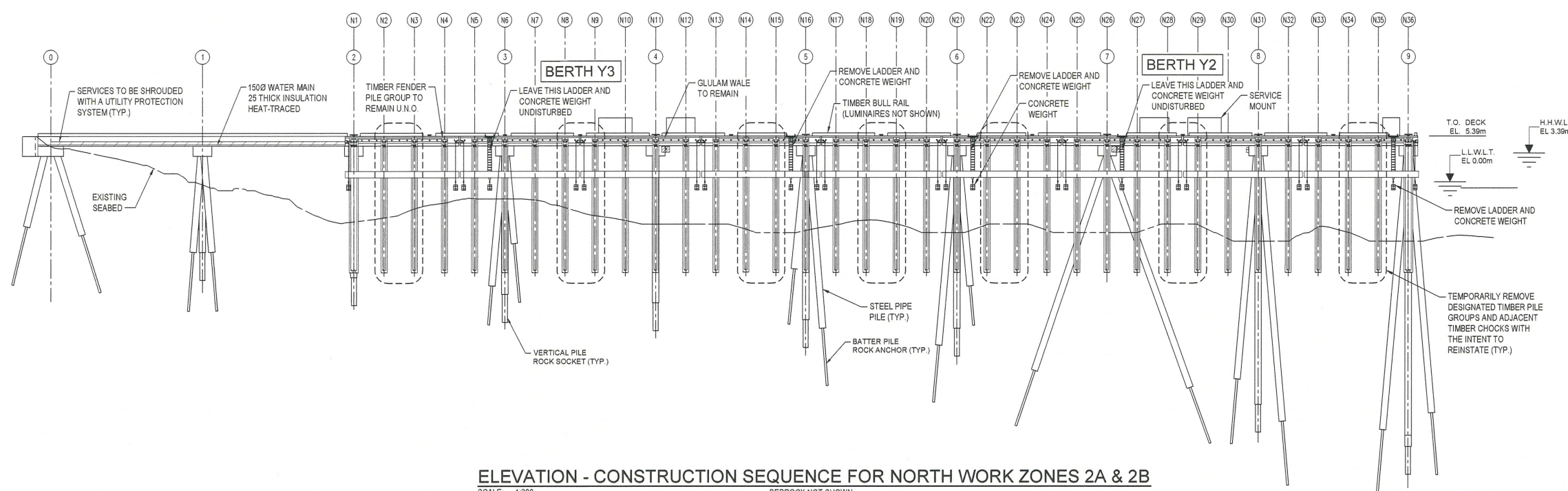
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S-6

Canada



PLAN - CONSTRUCTION SEQUENCE FOR NORTH WORK ZONES 2A & 2B
SCALE: 1:300



ELEVATION - CONSTRUCTION SEQUENCE FOR NORTH WORK ZONES 2A & 2B
SCALE: 1:300
BEDROCK NOT SHOWN (LOOKING SOUTH)

DESIGNATED TIMBER FENDER PILE GROUPS TO BE REMOVED WITH THE INTENT TO REINSTATE	N2, N3, N8, N9, N14, N15, N18, N19, N22, N23, N28, N29, N34, N35
---	--

NOTES:

- CHART DATUM (CD) IS 1.89M BELOW CANADIAN GEODETIC DATUM (GD).
- DIMENSIONS ARE SHOWN IN MM UNLESS NOTED OTHERWISE.
- REFERENCE DRAWINGS:
 - 1999 STRUCTURAL RECORD DRAWINGS
 - 2007 STRUCTURAL RETROFIT AS-BUILTS
- SEE DRAWING G-2 REMEDIATION SEQUENCE PLAN FOR WORK ZONE SEQUENCING.
- FOR UTILITY PROTECTION SYSTEM AND PILE PROTECTION SYSTEM, BOTH TO BE DESIGNED BY THE CONTRACTOR, REFER TO SPECIFICATIONS.
- PARTIAL FENDERING SYSTEM REMOVAL SEQUENCE INCLUDES:
 - a) STAGED REMOVAL AND STORAGE OF FENDERING COMPONENTS DESIGNATED FOR REMOVAL WITH INTENT TO REINSTATE (NOTE: FENDERING COMPONENTS DESIGNATED FOR TEMPORARY REMOVAL INCLUDES SELECT FENDER PILE GROUPS, SELECT LADDERS, SELECT TIMBER CHOCKS, CONCRETE WEIGHTS, GUIDE WIRES AND BARRIER BOOM).
 - b) INSTALLATION OF THE UTILITY PROTECTION SYSTEM AND PILE PROTECTION SYSTEM.
 - c) COMPLETE MATERIAL PLACEMENT ACTIVITIES IN CORRESPONDING WORK ZONE PORTION OF MATERIAL PLACEMENT AREA B2.
 - d) REINSTATEMENT SEQUENCE INCLUDES THE REMOVAL OF THE UTILITY PROTECTION SYSTEM AND PILE PROTECTION SYSTEM AND THE REINSTALLATION OF REMOVED FENDER SYSTEM COMPONENTS.
 - e) PRIOR TO REINSTALLATION OF TIMBER FENDER PILES, COMPLETE MATERIAL PLACEMENT ACTIVITIES IN MATERIAL PLACEMENT AREA B1.
- STORE REMOVED FENDER ITEMS AND FENDER PILES WITHIN THE WORK SITE, AT LOCATION ACCEPTABLE TO DEPARTMENTAL REPRESENTATIVE.
- REINSTALL TIMBER FENDER PILES, TIMBER CHOCKS AND ALL OTHER REMOVED COMPONENTS TO MATCH EXISTING ARRANGEMENT AND DETAILS.
- CONTRACTOR TO COMPLY WITH STRUCTURAL DREDGING OFFSETS AS PER DRAWING C-1.
- MINIMIZE TIMBER CHOCK REMOVAL TO THE MINIMUM REQUIRED FOR PILE REMOVAL AND REINSTALLATION.
- INCLUDE NEW ANNEALED ALUMINUM CAPS 0.8mm THK ON ALL REINSTALLED TIMBER PILES, REFER TO SPECIFICATION.

LEGEND:

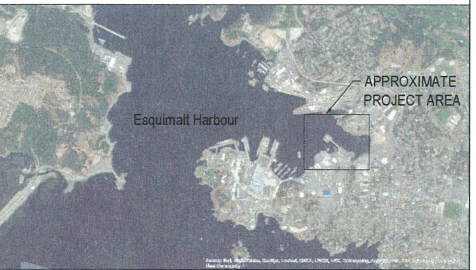
- UTILITY PROTECTION SYSTEM
- TRAFFIC LANE FOR DND OPERATIONAL ACCESS



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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED APRIL 2016.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
- CHART DATUM (CD) IS 1.89m BELOW CANADIAN GEODETIC DATUM (GD)
 - DIMENSIONS ARE SHOWN IN mm UNLESS NOTED OTHERWISE.
 - REFERENCE DRAWINGS:
 - 1999 STRUCTURAL RECORD DRAWINGS
 - 2007 STRUCTURAL RETROFIT AS-BUILTS
 - CONTRACTOR TO OBSERVE STRUCTURAL DREDGING OFFSETS AS PER DRAWING C-1.
 - FOR UTILITY PROTECTION SYSTEM AND PILE PROTECTION SYSTEM, BOTH TO BE DESIGNED BY THE CONTRACTOR, REFER TO SPECIFICATION.
 - DRILLED-IN CONCRETE ANCHORS AS REQUIRED FOR CONTRACTOR - DESIGNED UTILITY PROTECTION SYSTEM, TO BE DESIGNED AND INSTALLED TO AVOID ANY PERMANENT DAMAGE TO EXISTING STRUCTURE.

0	2018-08-02	ISSUED FOR TENDER	
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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
**Y JETTY AND LANG COVE
CFB ESQUIMALT**

PROJECT | PROJET
**EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018/08/02

SUBJECT | SUJET
**Y JETTY
CONSTRUCTION SEQUENCE
SECTIONS SHEET 1 OF 2**

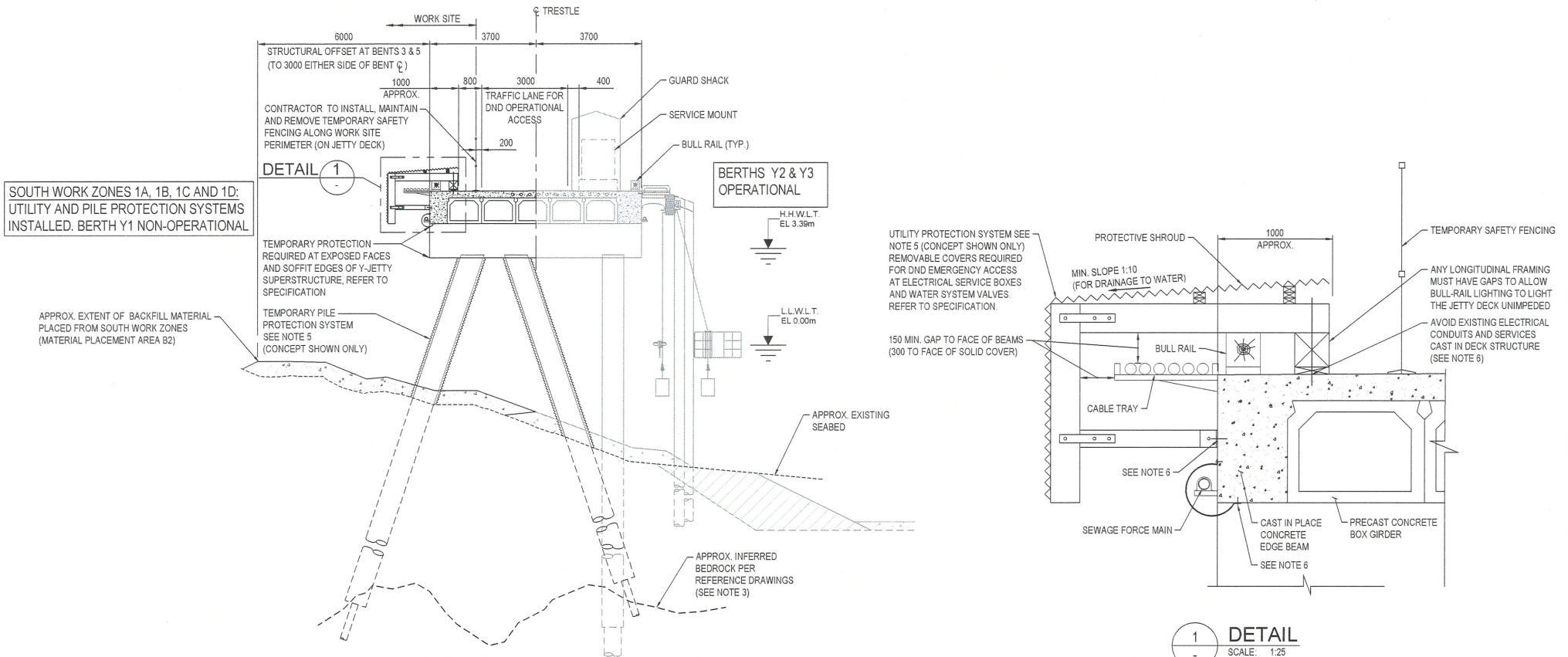
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D.J. LAWSON	
DRAWN DESSINÉ	PROJ MGR GEST PROJ
K.VANDERVEEN	
CHECKED VÉRIFIÉ	DES MGR GEST CONC
G.COOPER	
COORDINATION	FIRE INCENDIE

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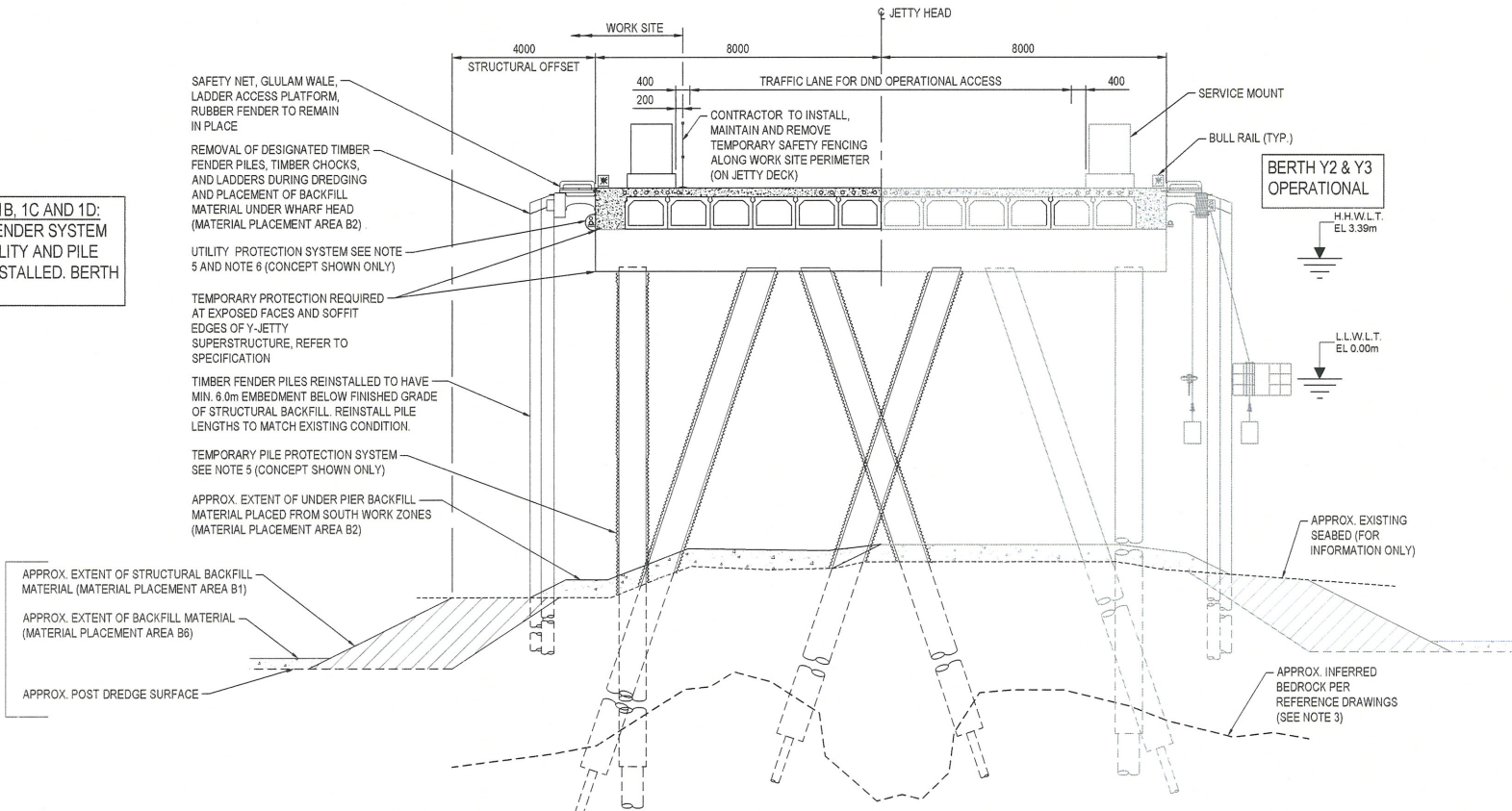
PF NO. | NO. DP
R.097231.001

DWG. NO. | NO. DESSIN
S-7

Canada



A
S-5
SCALE: 1:100



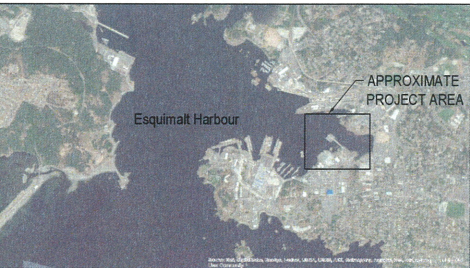
B
S-5
SCALE: 1:100

PROFESSIONAL
G. B. A. COOPER
July 31/18.
ENGINEER

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

- NOTES:
1. CHART DATUM (CD) IS 1.89m BELOW CANADIAN GEODETIC DATUM (GD).
 2. DIMENSIONS ARE SHOWN IN mm UNLESS NOTED OTHERWISE.
 3. REFERENCE DRAWINGS:
 - 1999 STRUCTURAL RECORD DRAWINGS
 - 1997 CIVIL ISSUED FOR CONSTRUCTION DRAWINGS
 - 1997 ELECTRICAL ISSUED FOR CONSTRUCTION DRAWINGS
 - 2007 STRUCTURAL RETROFIT AS-BUILTS
 4. SEWAGE FORCE MAIN AND WATERMAIN TO REMAIN IN SERVICE AND FULLY OPERATIONAL THROUGHOUT THE WORK.
 5. FOR ELECTRICAL ISOLATION SEE DRAWING E-1.
 6. FOR CONSTRUCTION SEQUENCE, SEE DRAWING S-5, S-6, S-7 & S-8.

NO.	DATE	REVISION	APPR.
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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
**Y JETTY AND LANG COVE
CFB ESQUIMALT**

PROJECT | PROJET
**EHRP PHASE 2C AND 2D
Y JETTY AND LANGE COVE**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2018/08/02

SUBJECT | SUJET
**Y JETTY
UTILITIES
PLAN AND SECTIONS**

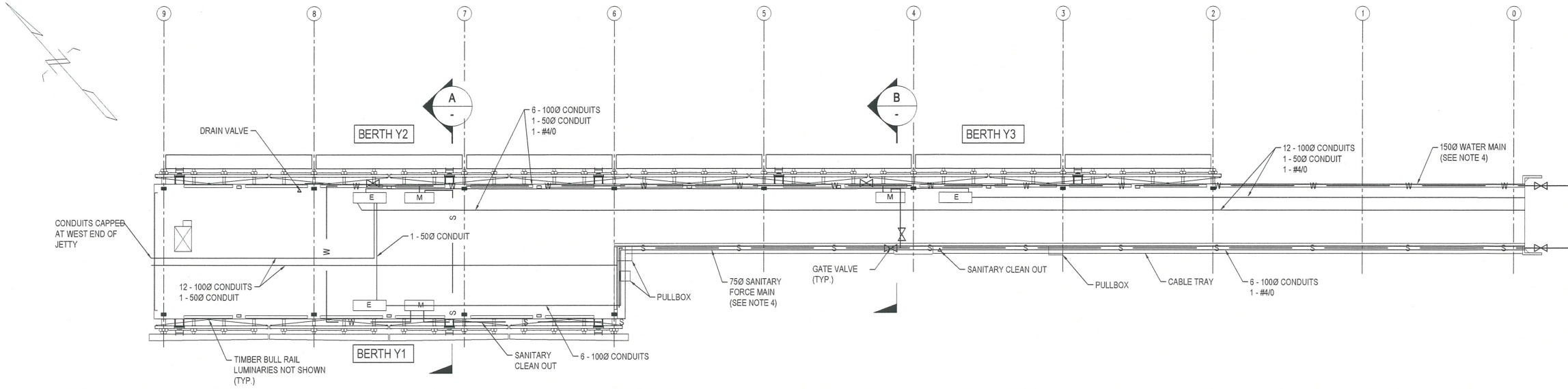
DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
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DRAWN DESSINÉ		DES MGR GEST CONC
K.VANDERVEEN		
CHECKED VÉRIFIÉ		
G.COOPER		
COORDINATION		FIRE INCENDIE

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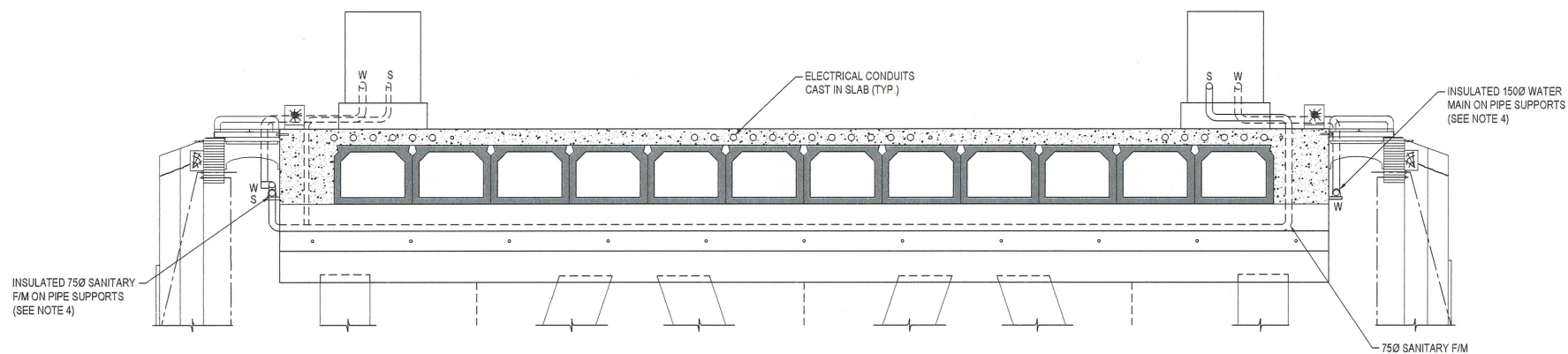
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S-9

Canada

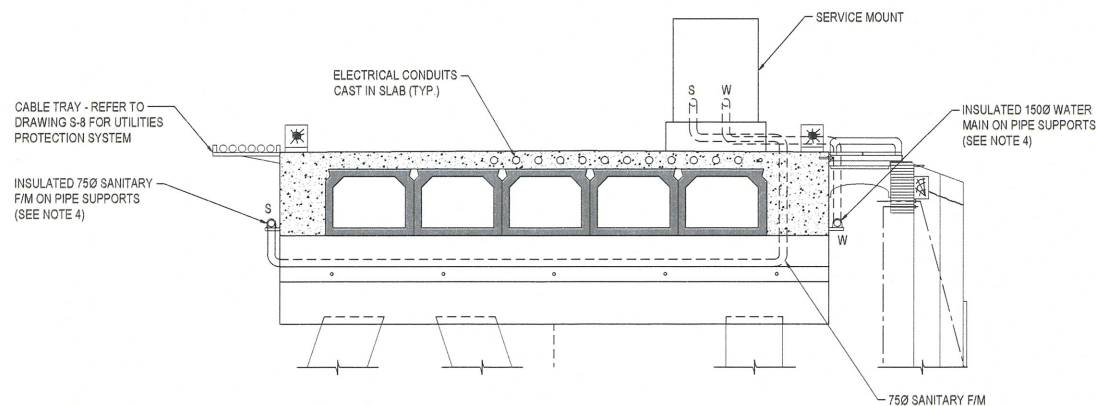


UTILITIES PLAN

SCALE: 1:300
STEEL PILES, HEAT TRACING, LIGHTING AND GUARD SHACK NOT SHOWN



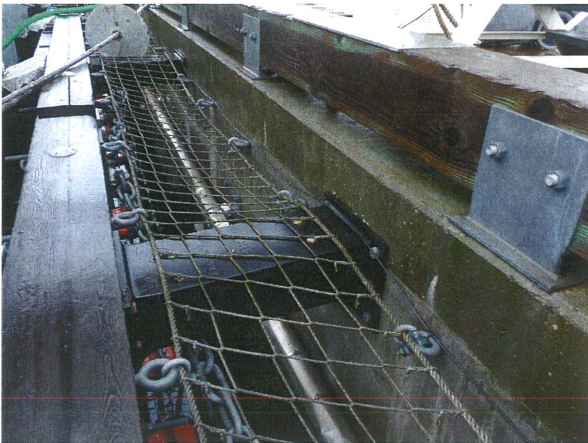
SECTION A
SCALE: 1:50



SECTION B
SCALE: 1:50

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ENGINEER
July 31/18.

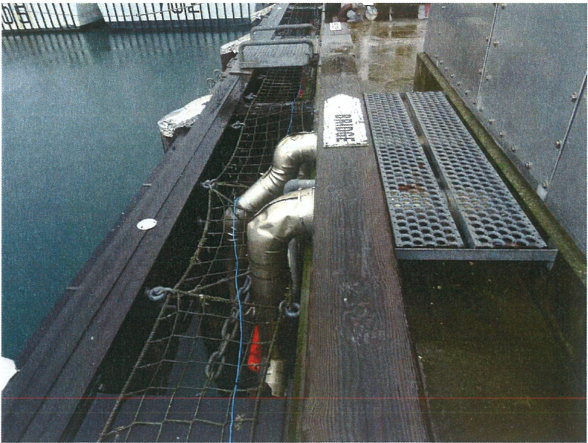
- LEGEND:
- M MECHANICAL SERVICE MOUNT
 - E ELECTRICAL SERVICE MOUNT
 - BERTH Y BERTH NAME
 - S SEWAGE FORCE MAIN
 - W WATER MAIN



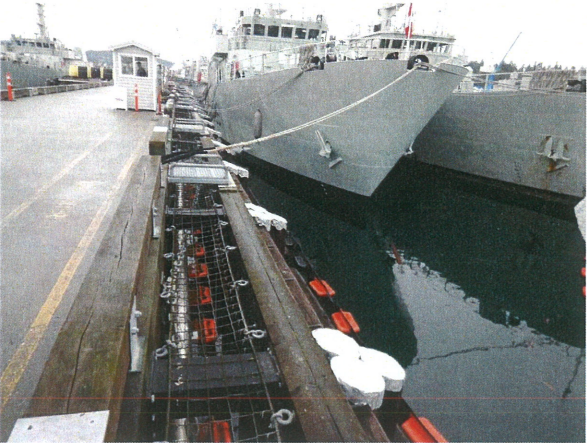
① TYPICAL Y JETTY FENDER SYSTEM CONFIGURATION
(NOTE: BLUE COMMUNICATIONS WIRE LAYING ON NETTING)



② TYPICAL MECHANICAL KIOSK



③ TYPICAL KIOSK SERVICE CONNECTIONS
(NOTE: BLUE COMMUNICATIONS WIRE LAYING ON NETTING)



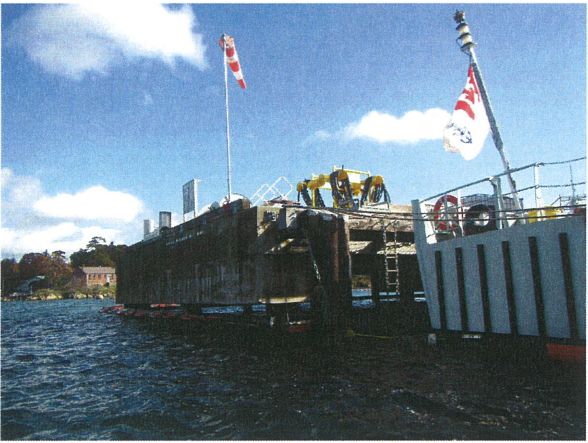
④ TYPICAL FENDER PILE ARRANGEMENT AND GUARD SHACK SHOWN



⑤ PULLBOXES AT JETTY TRESTLE INTERFACE WITH WHARF HEAD



⑥ INSULATED WATERMAIN ON NORTH FACE OF TRESTLE



⑦ CORNER OF WHARF HEAD AND BERTH Y1



⑧ NORTH FACE OF TRESTLE AND BERTH Y3



⑨ SEWER FORCE MAIN - FROM SHORE



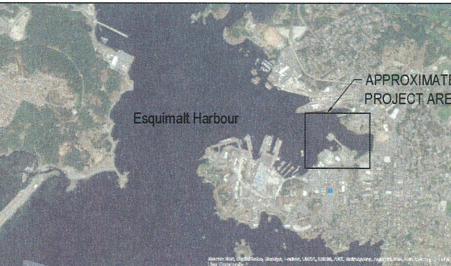
⑩ CATHODIC PROTECTION ANODE HANGING FROM TRESTLE PILE CAP



⑪ SEWER FORCE MAIN TYPICAL PIPE SUPPORT



⑫ PULLBOXES AT JETTY TRESTLE INTERFACE WITH WHARF HEAD - FROM WATER



SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED APRIL 2016.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83
VERTICAL DATUM: CHART DATUM (CD).

NOTES:
1. CHART DATUM (CD) IS 1.89m BELOW CANADIAN GEODETIC DATUM (GD).
2. REFER TO DRAWING S-1 FOR LOCATION AND ORIENTATION OF PHOTOS.

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL
SUBJECT | SUJET

DATE
2018/08/02

Y JETTY
PHOTOGRAPHS
SHEET 1 OF 2

DESIGNED ÉTUDIÉ D.J. LAWSON	DES O AGENT CONC
DRAWN DESSINÉ K.VANDERVEEN	PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ G.COOPER	DES MGR GEST CONC
COORDINATION	FIRE INCENDIE

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S-10

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13 CORNER OF WHARF HEAD AND BERTH Y1



14 EMBEDDED CONDUITS CAPPED AT WHARF HEAD



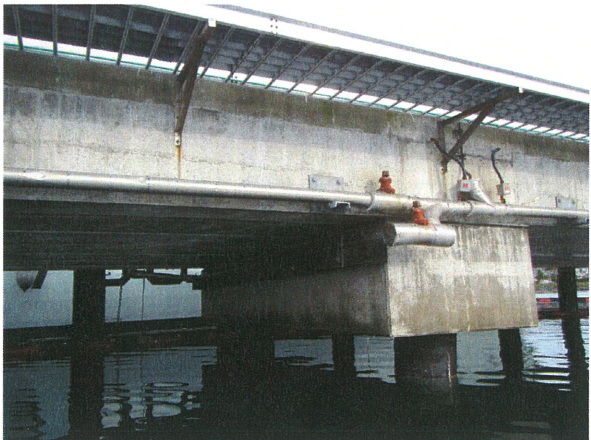
15 CORNER OF WHARF HEAD AND BERTH Y2



16 TYPICAL FENDER PILE GROUP, GLULAM WALE AND BARRIER BOOM



17 TYPICAL FLOATING CAMEL



18 UNDER PIER UTILITIES AT PILE BENT 4



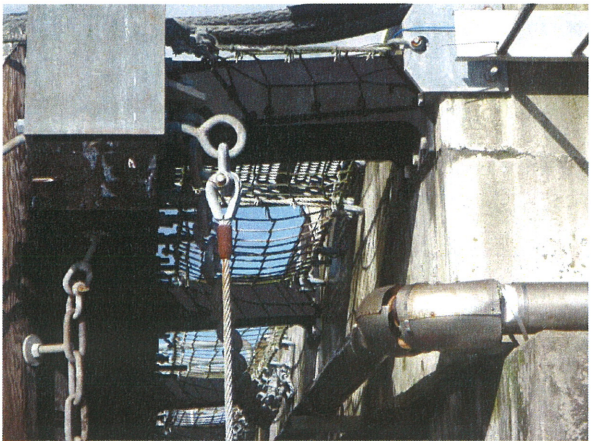
19 CATHODIC PROTECTION ANODES HANGING FROM WHARF HEAD PILE CAP



20 ELECTRICAL CABLE TRAY AND SEWER FORCE MAIN



21 TYPICAL BERTH Y1 FENDER SYSTEM AND UTILITIES



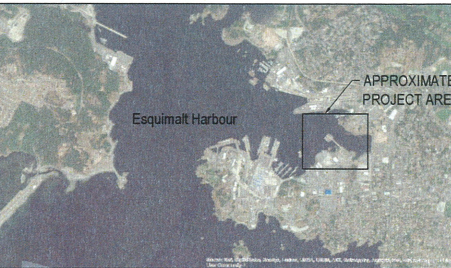
22 GLULAM WALE CONNECTION TO EYE BOLT AND RUBBER FENDER



23 GLULAM WALE AND TIMBER FENDER PILE GROUPS AT BERTH Y3



24 UNDER PIER UTILITY SUPPORT AND HANGING ANODE STRING



SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED APRIL 2016.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83
VERTICAL DATUM: CHART DATUM (CD)

NOTES:
1. CHART DATUM (CD) IS 1.89m BELOW CANADIAN GEODETIC DATUM (GD).
2. REFER TO DRAWING S-1 FOR LOCATION AND ORIENTATION OF PHOTOS.

NO.	DATE	REVISION	APPR.
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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL
DATE
2018/08/02

SUBJECT | SUJET
Y JETTY
PHOTOGRAPHS
SHEET 2 OF 2

DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
D.J. LAWSON		
DRAWN DESSINÉ	PROJ MGR GEST PROJ	
K.VANDERVEEN		
CHECKED VÉRIFIÉ	DES MGR GEST CONC	
G.COOPER		
COORDINATION	FIRE INCENDIE	

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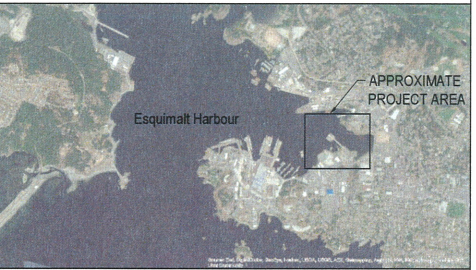
DWG. NO. | NO. DESSIN
S-11

Canada

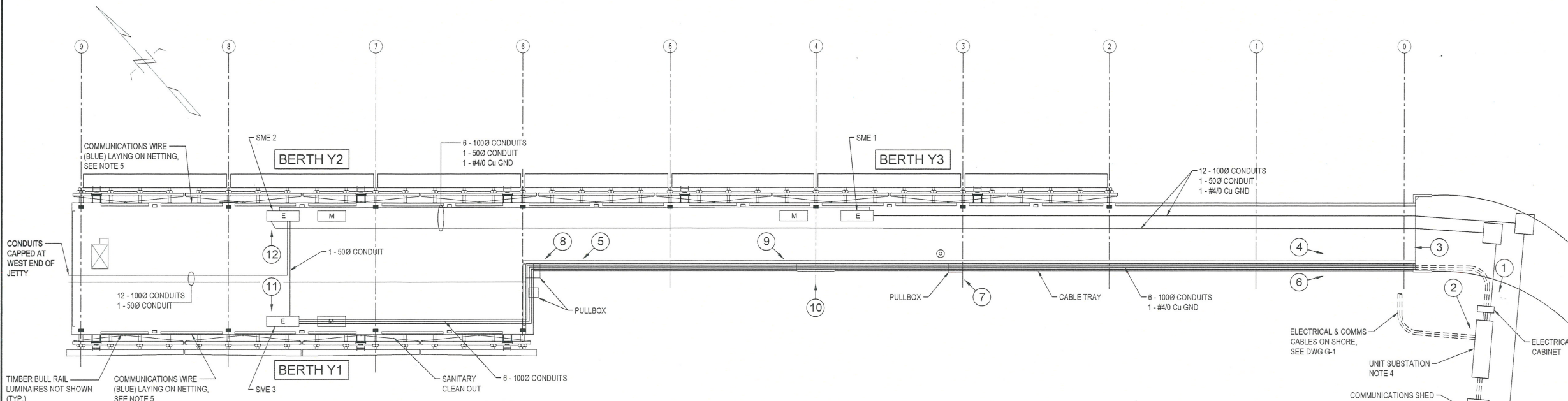
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G. B. A. COOPER
ENGINEER
July 31/18.

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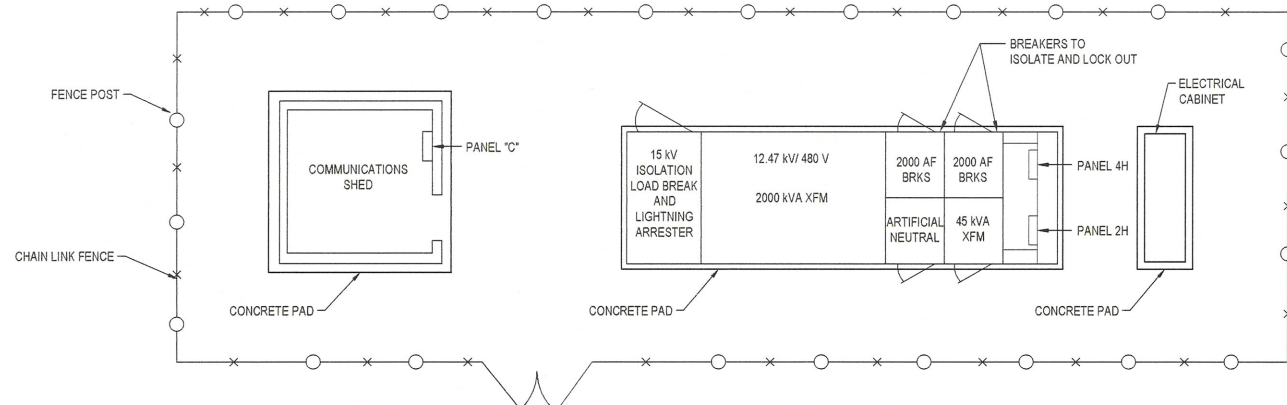
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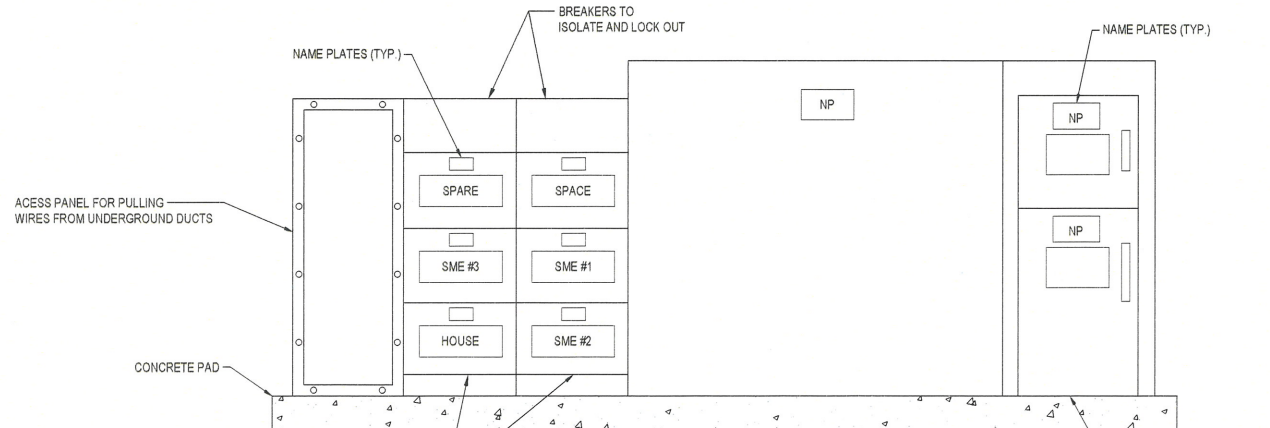
SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED APRIL 2016.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).



ELECTRICAL UTILITIES PLAN
SCALE 1:250
STEEL PILES, HEAT TRACING, LIGHTING AND GUARD SHACK NOT SHOWN



UNIT SUBSTATION LAYOUT
SCALE 1:50



UNIT SUBSTATION WEST ELEVATION
SCALE 1:25
COMMS. SHED AND ELECTRICAL CABINET NOT SHOWN

NOTES:

- CHART DATUM (CD) IS 1.89m ABOVE CANADIAN GEODETIC DATUM (GD)
- DIMENSIONS ARE SHOWN IN mm UNLESS NOTED OTHERWISE
- REFERENCE DRAWINGS:
-1997 ELECTRICAL ISSUED FOR CONSTRUCTION DRAWINGS.
- ISOLATE AND LOCK OUT 480 V BREAKERS AT UNIT SUBSTATION TO DE-ENERGIZE ELECTRICAL SUPPLY TO ELECTRICAL SERVICE MOUNTS ALONG Y-JETTY TO MAKE SAFE WHILE INSTALLING UTILITY PROTECTION SYSTEM.
- DISCONNECT COIL UP AND STORE COMMUNICATIONS WIRE (BLUE).
- WHEN THE INSTALLATION OF THE UTILITY PROTECTION SYSTEM IS COMPLETE RESTORE POWER TO ELECTRICAL SERVICE MOUNTS BY REMOVING LOCKS AND TURNING ON BREAKERS.
- ANY ELECTRICAL OR COMMUNICATIONS EQUIPMENT OR WIRING DAMAGED DURING THE PROJECT WILL BE TESTED TO VERIFY SYSTEM FUNCTIONS AS INTENDED AND EQUIPMENT REPLACED IF REQUIRED.
- FOR CONSTRUCTION SEQUENCE, SEE DRAWINGS S-5.

LEGEND:

- M MECHANICAL SERVICE MOUNT
- E ELECTRICAL SERVICE MOUNT (SME 1, SME 2, SME 3)
- BERTH-Y BERTH NAME
- X SEE DRAWING E-2 FOR PHOTOS

PROFESSIONAL
M. D. ROBERTS
41777
JULY 31, 2018

0	2018-08-02	ISSUED FOR TENDER	
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LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL
DATE
2018/08/02

SUBJECT | SUJET
Y JETTY
ELECTRICAL UTILITIES
PLAN AND SECTIONS

DESIGNED ÉTUDIÉ	DES O AGENT CONC
DRAWN Dessiné	PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ	DES MGR GEST CONC
COORDINATION	FIRE INCENDIE

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DWG. NO. | NO. DESSIN
E-1



① 12.47 kV / 480 V UNIT SUBSTATION



② UNIT SUBSTATION - BREAKERS FOR SME 1, SME 2 AND SME 3 LOCATED ON BACK SIDE



③ 6 x 100 mm ELECTRICAL CONDUITS ON CABLE TRAY



④ 6 x 100 mm ELECTRICAL CONDUITS ON CABLE TRAY



⑤ ELECTRICAL CONDUITS FOR ELECTRICAL SERVICE MOUNT 3



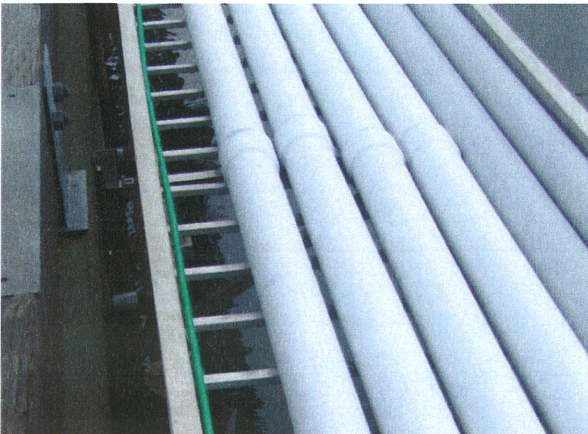
⑥ CABLE TRAY SUPPORTS



⑦ JUNCTION PULL BOX ALONG CABLE TRAY



⑧ JUNCTION PULL BOX



⑨ 4/0 AWG GROUND IN CABLE TRAY



⑩ HEAT TRACE SYSTEM FOR WATER PIPES



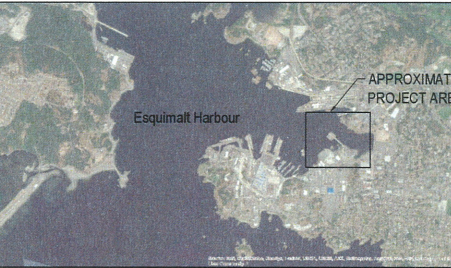
⑪ SME 3 LOOKING SOUTH



⑫ SME 1 LOOKING NORTH

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

NOTES:
1. REFER TO DRAWING E-1 FOR LOCATION AND ORIENTATION OF PHOTOS.

0	2018-08-02	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.
SCALE ÉCHELLE			

LOCATION | EMPLACEMENT
Y JETTY AND LANG COVE
CFB ESQUIMALT

PROJECT | PROJET
EHRP PHASE 2C AND 2D
Y JETTY AND LANG COVE

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL
DATE
2018/08/02

SUBJECT | SUJET
Y JETTY
ELECTRICAL UTILITIES
PHOTOGRAPHS

DESIGNED ÉTUDIÉ M.ROBERTS	DES O AGENT CONC
DRAWN DESSINÉ R.WERNER	PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ G.COOPER	DES MGR GEST CONC
COORDINATION	FIRE INCENDIE

WBS NO. | NO. OTP
L-23
PF NO. | NO. DP
R.097231.001

DWG. NO. | NO. DESSIN
E-2

