



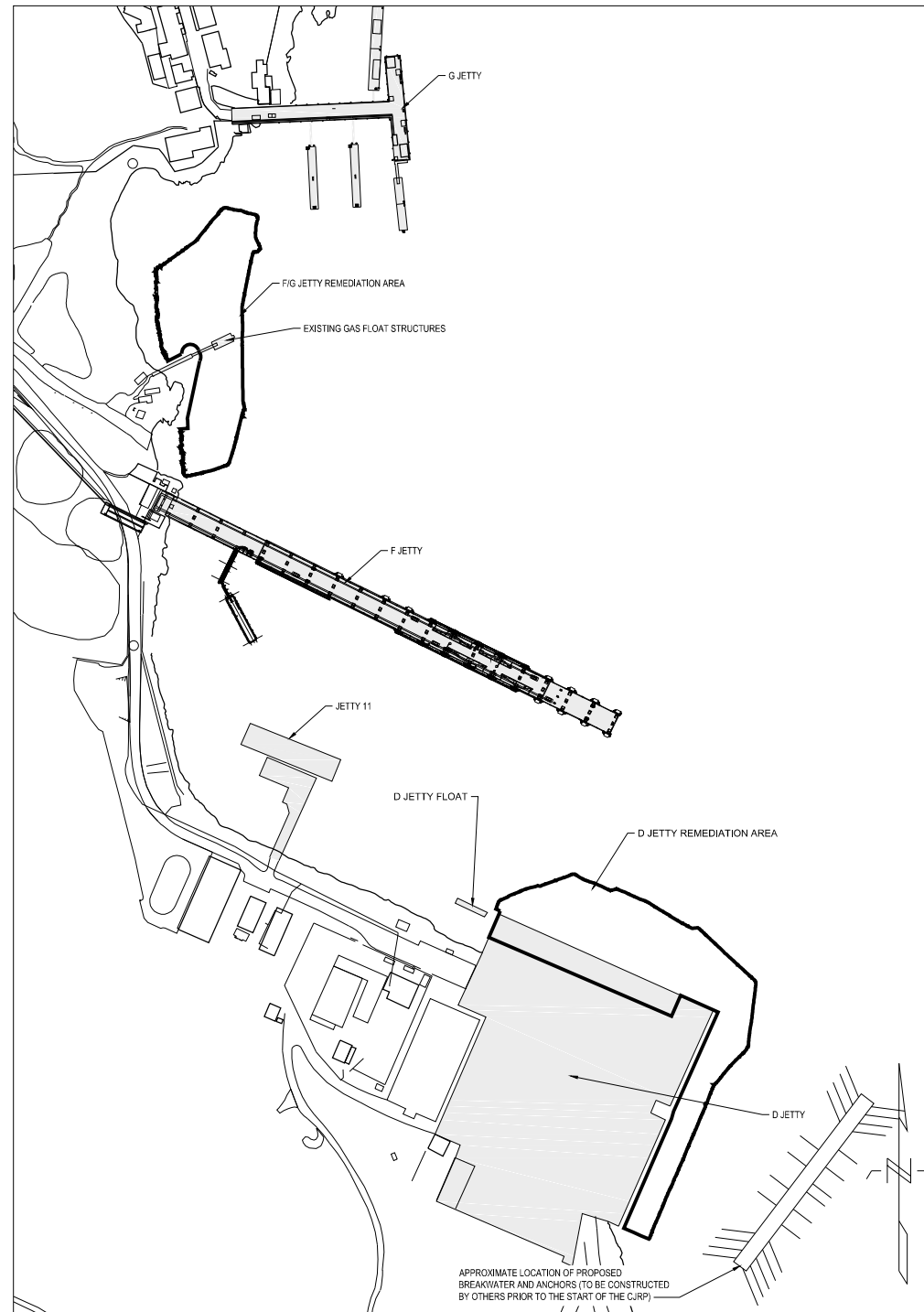
720 OLIVE WAY, SUITE 1900
SEATTLE, WASHINGTON 98101
PHONE: 1 (206) 287-9130



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



VICINITY MAP
SCALE: 1:15000



SITE PLAN
SCALE: 1:2000

LIST OF DRAWINGS - LISTE DES DESSINS

600 CIVIL
CIVIL

DWG. #	NO.	SUBJECT	DWG. #	NO.	SUBJECT
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SET NO. - SÉRIE NO.	2016/07/12
DATE	2016/07/12
PWGS NO.	150553-11.05
WBS NO. - NO. OTR	N/A
PF NO. - NO. DP	R.081525.001/R.081526.001
JOB NO.	150553-11.05

COLWOOD JETTIES REMEDIATION PROJECT

Esquimalt | British Columbia
Esquimalt | Colombie-Britannique
DRAFT - NOT FOR CONSTRUCTION



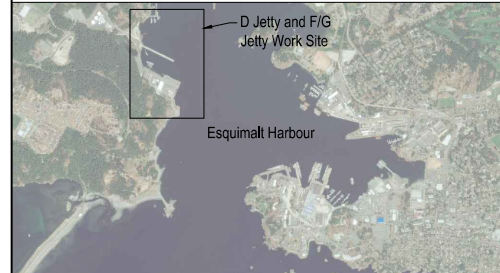
LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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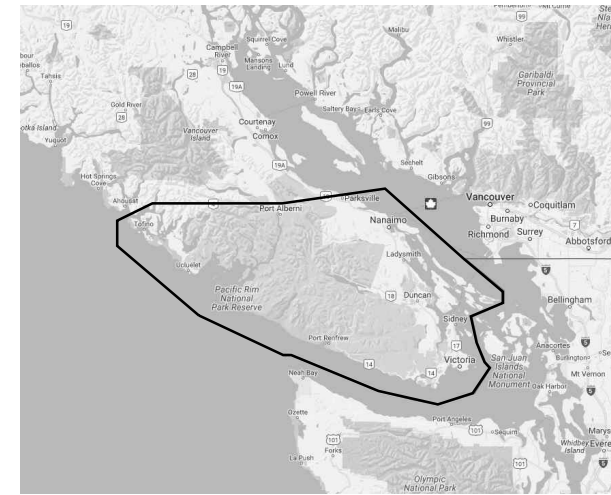
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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

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, DATUM CONVERSIONS, AND MONUMENT INFORMATION, SEE DRAWING T-3.
- 1.4. SCALES INDICATED ON DRAWINGS ARE FULL SIZE A1 DRAWINGS.
- 1.5. PWGSC WILL DESIGNATE A REPRESENTATIVE (TERMED THE DEPARTMENTAL REPRESENTATIVE) TO ADVISE, COORDINATE, AND MONITOR THE WORK ON BEHALF OF DND.
- 1.6. DIMENSIONS, LAYOUT AND DETAILS OF EXISTING STRUCTURES ARE BASED ON DRAWINGS OBTAINED FROM THE DND AND MAY BE SUBJECT TO CONSTRUCTION VARIATIONS AND MODIFICATIONS. THE CONTRACTOR SHALL 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.
- 1.7. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH THE DEPARTMENTAL REPRESENTATIVE. LOCATION OF THE CONTRACTOR'S, DEPARTMENTAL REPRESENTATIVE'S, AND CONSULTANT'S SITE OFFICES SHALL BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- 1.8. CONTRACTOR SHALL RETAIN OR REINSTATE ALL UTILITIES NOT SPECIFIED AS PROJECT WORK.
- 1.9. THE EXISTING GAS FLOAT STRUCTURES ARE COMPOSED OF THE EXISTING GAS FLOAT AND ASSOCIATED TIMBER LOCATOR PILES, PIVOT RAMP, TIMBER APPROACH AND ASSOCIATED CONCRETE ABUTMENT, CONCRETE PIER, AND TIMBER PILED BENTS.
- 1.10. UTILITIES (EXCEPT WATER) ARE NOT CURRENTLY AVAILABLE IN THE ON-SITE STAGING AREA. DROP LOCATIONS SHOULD BE COORDINATED WITH THE DEPARTMENTAL REPRESENTATIVE.
- 1.11. THE WORK IS TO BE PERFORMED ON AN OPERATIONAL CFB ESQUIMALT BASE AND NO OPERATIONS ARE TO BE IMPACTED BY THE PROJECT.
- 1.12. ACTIVE VESSEL OPERATIONS BY DND MAY BE PRESENT DURING PERFORMANCE OF THE WORK. CONTRACTOR TO NOT INTERFERE WITH ANY CFB ESQUIMALT VESSEL TRAFFIC.
- 1.13. CONTRACTOR SHALL COMPLETE PRE-CONSTRUCTION BATHYMETRIC SURVEY TO MEET BATHYMETRY COLLECTION REQUIREMENTS DESCRIBED IN SECTION 02 21 13 - SURVEYING AND POSITIONING CONTROL.
- 1.14. CONTRACTOR SHALL COMPLETE PRE- AND POST-CONSTRUCTION STRUCTURAL CONDITION INSPECTION SURVEY TO MEET CONDITION REQUIREMENTS DESCRIBED IN SECTION 02 41 16.01 - STRUCTURE DEMOLITION.
- 1.15. THE BOUNDARY SHOWN ON THE FIGURE TO THE RIGHT REPRESENTS THE LIMIT OF WHERE THE CONTRACTOR PROCESSING FACILITY MAY BE LOCATED.



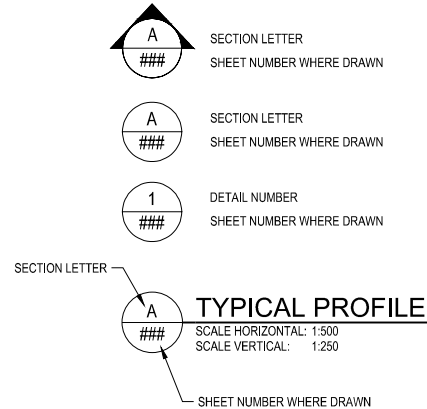
AREA OF RESPONSIBILITY FOR DND'S EXPLOSIVE ORDNANCE DISPOSAL TEAM BASED AT THE FLEET DIVING UNIT (PACIFIC)
MAP SOURCE: GOOGLE

ABBREVIATIONS:

(LIST SUBJECT TO MODIFICATION)

APPR	APPROVED
BC	BRITISH COLUMBIA
CD	CHART DATUM
CFB	CANADIAN FORCES BASE
CGVD	CANADIAN GEODETIC VERTICAL DATUM
CJRP	COLWOOD JETTIES REMEDIATION PROJECT
DND	DEPARTMENT OF NATIONAL DEFENCE
DU	DREDGE UNIT
DWG	DRAWING
E	EASTING
EMP	ENVIRONMENTAL MONITORING PROGRAM
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
NO.	NUMBER
N.T.S.	NOT TO SCALE
PWGSC	PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
REF	REFERENCE
REQ/REQ'D	REQUIRED
REV	REVISION
RMC	RESIDUALS MANAGEMENT COVER
TYP.	TYPICAL
UTM	UNIVERSAL TRANSVERSE MERCATOR
V	VERTICAL
X	EASTING
Y	NORTHING

IDENTIFIERS:



0	2016/08/01	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
N/A

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE MÉTIER CIVIL/ENVIRONMENTAL	DATE 2016/07/12
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SUBJECT | SUJET
**GENERAL NOTES AND
ABBREVIATIONS**

PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
	R. BARTH	XX XX	
DRAWN DESSINÉ	CHECKED VÉRIFIÉ	COORDINATION	FIRE INCENDIE
	T. WANG		

WBS NO. NO. OTP	PF NO. NO. DP R.081525.001/R.081526.001
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T-2

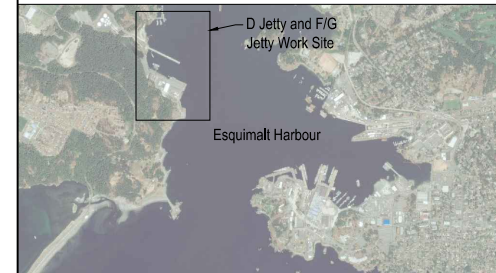
Canada



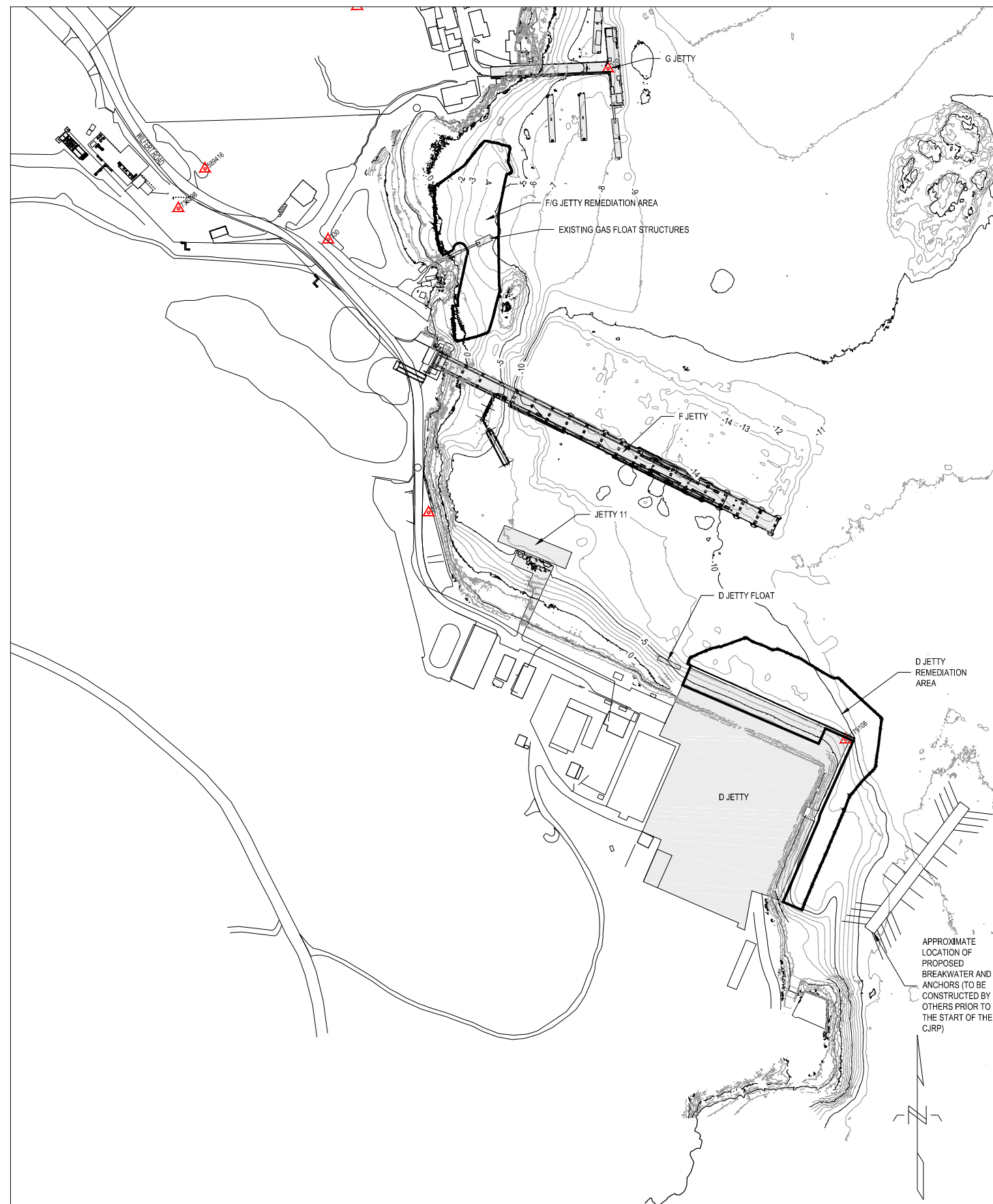
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T-2 chewart 2016/Aug/01, 3:27pm Sheet 2 of 39

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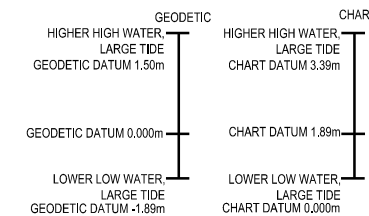
SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).



SITE PLAN
SCALE: 1:2000

DATUM NOTES:

- TIDE ELEVATIONS (GEODETTIC):
HIGHER HIGH WATER, LARGE TIDE (HHWLT) 1.5m
MEAN WATER LEVEL (MWL) 0.0m
- TO CONVERT FROM GEODETTIC DATUM TO CHART DATUM, ADD 1.89m.
- TO CONVERT FROM CHART DATUM TO GEODETTIC DATUM, SUBTRACT 1.89m.



DATUM CONVERSION
N.T.S.

LEGEND:

- 10 BATHYMETRY IN METRES (1m AND 5m INTERVAL)
- REMEDATION AREA
- ▲ 310 CONTROL MONUMENT LOCATION AND DESIGNATION

CONTROL MONUMENT TABLE		
POINT	EASTING	NORTHING
310	466786.87	5365753.67
312	466482.49	5365900.23
330	466569.64	5365621.04
331	466647.75	5365409.43
223214	465945.92	5365443.91
335604	466011.52	5365222.05
589416	466474.16	5365676.04
736298	466453.44	5365645.29
986950	466592.11	5365802.15
9179108	466971.33	5365233.44



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SCALE | ÉCHELLE
1:2000

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL DATE
2016/07/12

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

PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
	R. BARTH	XX XX	
	C. HEWETT		PROJ MGR GEST PROJ
	T. WANG		DES MGR GEST CONC
			FIRE INCENDIE

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

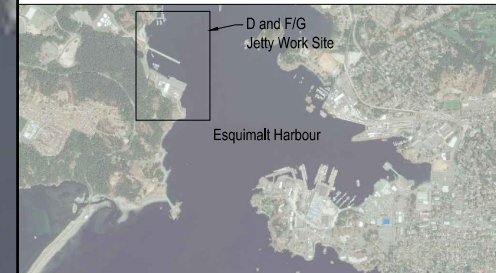
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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015. AERIAL IMAGE FROM ESRI.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
1. AVAILABLE ON-SITE STAGING AREAS TO BE SHARED BETWEEN WORK PERFORMED AT D JETTY AND F/G JETTY WORK SITE.
 2. THE LIVE LOAD RATING FOR D JETTY IS SHOWN ON SHEETS S-1 AND S-2.
 3. ON-SITE STAGING AREAS AVAILABLE TO CONTRACTOR FOR GENERAL LAYDOWN AND STAGING. NO OFFLOADING OF SEDIMENT OR SEDIMENT STOCKPILING IS ALLOWED. NO GAS FLOAT STRUCTURES, OR D JETTY NORTH BERTH STRUCTURES STAGING IS ALLOWED UNLESS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
 4. WATER CONNECTIONS ARE AVAILABLE NEAR ON-SITE STAGING AREAS FOR USE BY CONTRACTOR. NO POWER OR COMPRESSED AIR ARE AVAILABLE FOR USE BY CONTRACTOR.
 5. DO NOT OBSTRUCT ACCESS TO DND PROPERTY OUTSIDE OF THE WORK SITE. MAINTAIN OVERHEAD CLEARANCES, KEEP ROADWAYS AND WALKWAYS CLEAR. MAINTAIN VESSEL NAVIGATION AS DESCRIBED IN THE SPECIFICATIONS, AND MAINTAIN ROUTES FOR EMERGENCY RESPONSE VEHICLES.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
1:3000

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/07/12

SUBJECT | SUJET
SITE STAGING AND ACCESS

PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
	R. BARTH	XX XX	
	C. HEWETT	X.X.	PROJ MGR GEST PROJ
	T. WANG		DES MGR GEST CONC
			FIRE INCENDIE

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
T-4

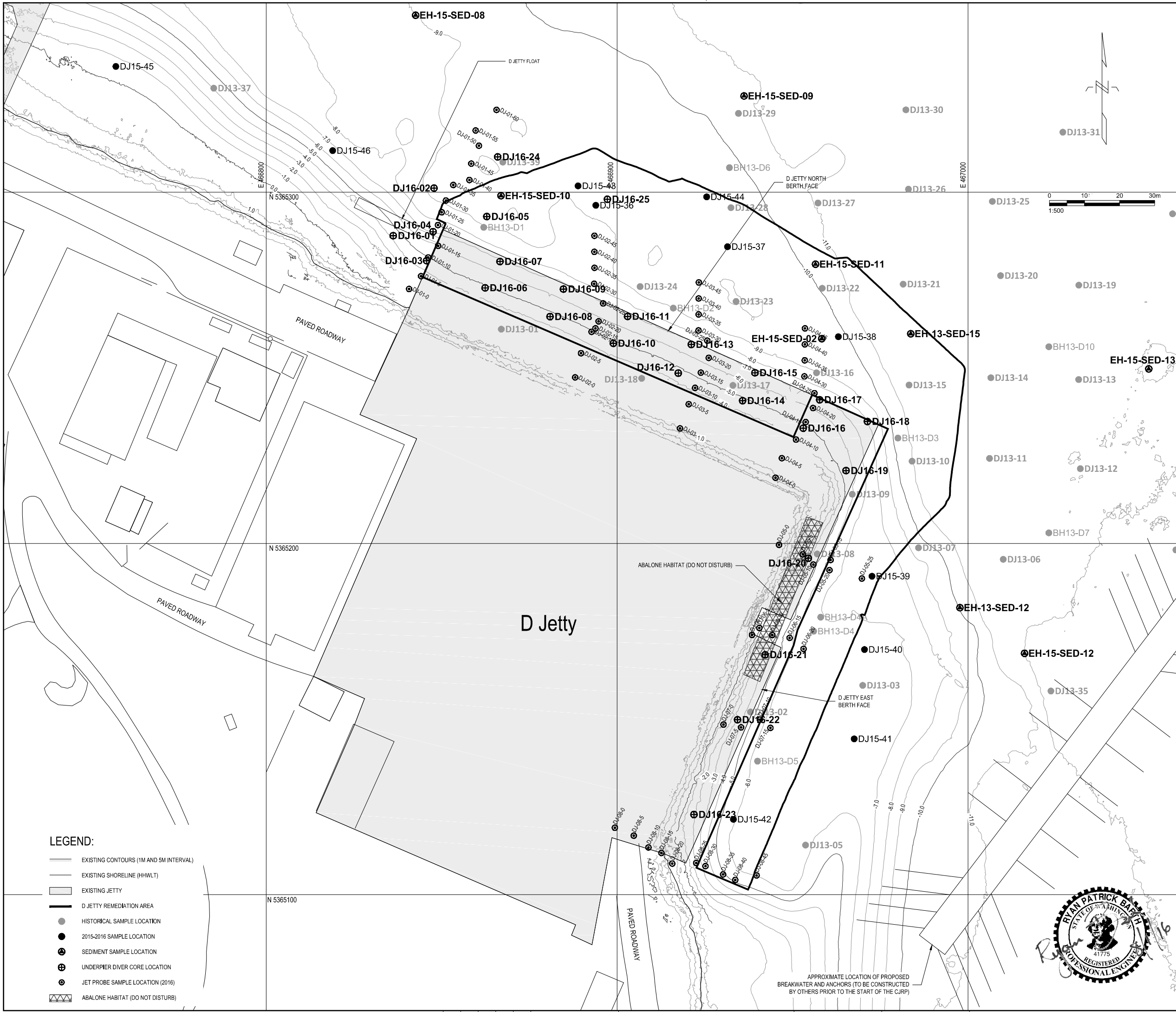


SITE STAGING AND ACCESS PLAN
SCALE: 1:3000



LEGEND:
 REMEDIATION AREA
 CONTRACTOR ACCESS ROUTE
 AVAILABLE ON-SITE STAGING AREA

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Sheet 4 of 39

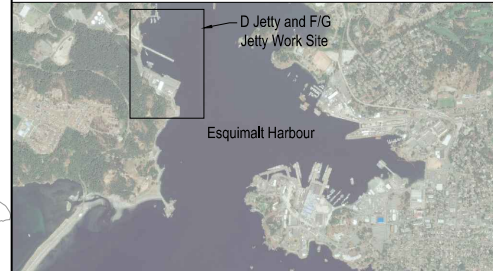


- LEGEND:**
- EXISTING CONTOURS (1M AND 5M INTERVAL)
 - EXISTING SHORELINE (HHWLT)
 - ▭ EXISTING JETTY
 - ▭ D JETTY REMEDIATION AREA
 - HISTORICAL SAMPLE LOCATION
 - 2015-2016 SAMPLE LOCATION
 - ⊕ SEDIMENT SAMPLE LOCATION
 - ⊕ UNDERPIER DIVER CORE LOCATION
 - ⊕ JET PROBE SAMPLE LOCATION (2016)
 - ▭ ABALONE HABITAT (DO NOT DISTURB)

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

NOTES:

- ALL SAMPLE LOCATIONS SHOWN INCLUDE ALL CORES, SURFACE GRABS, JET PROBES, AND GEOTECHNICAL BORINGS USED TO DETERMINE THE EXTENT OF REMEDIATION.
- DATA ASSOCIATED WITH THE CORES AND BORINGS ARE PROVIDED AS AN APPENDIX TO THE SPECIFICATIONS.
- CONTRACTOR SHALL RETAIN OR REINSTATE ALL UTILITIES NOT SPECIFIED AS PROJECT WORK.
- SEE DRAWINGS S-1 THROUGH S-8 FOR D JETTY STRUCTURAL DETAILS.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
1:500

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDICATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL DATE
2016/07/12

SUBJECT | SUJET
EXISTING CONDITIONS - D JETTY

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

WBS NO. NO. OTP	PF NO. NO. DP
	R.081525.001/R.081526.001
DWG. NO. NO. DESSIN	G-1

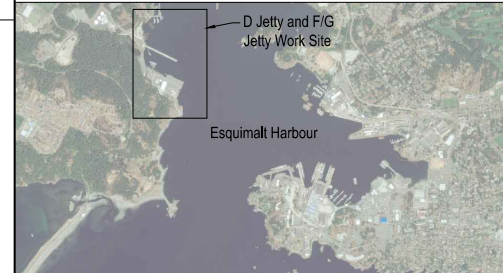


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G-1
chewett

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

- NOTES:
1. ALL SAMPLE LOCATIONS SHOWN INCLUDE ALL CORES, SURFACE GRABS, JET PROBES, AND GEOTECHNICAL BORINGS USED TO DETERMINE THE EXTENT OF REMEDIATION.
 2. DATA ASSOCIATED WITH THE CORES AND BORINGS ARE PROVIDED AS AN APPENDIX TO THE SPECIFICATIONS.
 3. A DIVER RECONNAISSANCE SURVEY PERFORMED ON JANUARY 21, 2016 IDENTIFIED THE VISUAL EXTENTS OF NEARSHORE BEDROCK OUTCROPPING. ADDITIONAL BEDROCK OUTCROPPING MAY BE PRESENT THAT WAS NOT VISIBLE BY DIVERS.
 4. SEE DRAWINGS S-11 THROUGH S-14 FOR F/G JETTY STRUCTURAL DETAILS.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
1:1000

LOCATION | EMPLACEMENT
D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD

PROJECT | PROJET
COLWOOD JETTIES
REMEDATION PROJECT

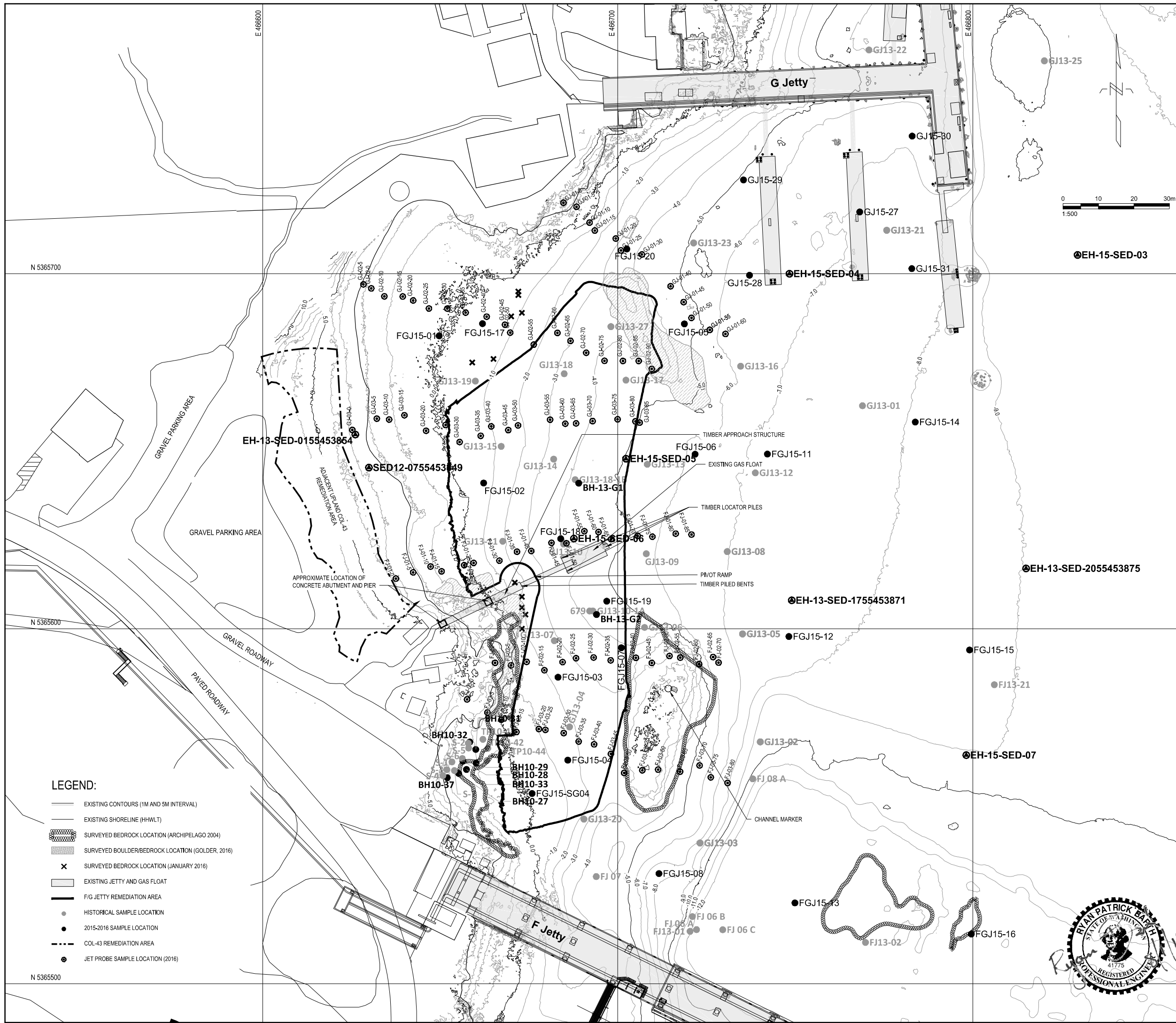
TRADE | MÉTIER
CIVIL/ENVIRONMENTAL
DATE
2016/07/12

SUBJECT | SUJET
EXISTING CONDITIONS -
F/G JETTY

DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	
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
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
G-2



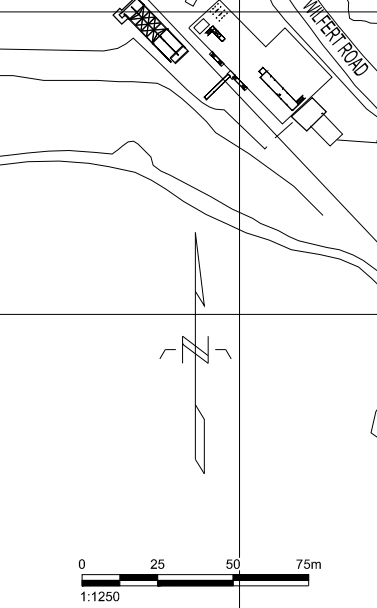
- LEGEND:
- EXISTING CONTOURS (1M AND 5M INTERVAL)
 - EXISTING SHORELINE (HHWLT)
 - SURVEYED BEDROCK LOCATION (ARCHIPELAGO 2004)
 - SURVEYED BOULDER/BEDROCK LOCATION (GOLDER, 2016)
 - SURVEYED BEDROCK LOCATION (JANUARY 2016)
 - EXISTING JETTY AND GAS FLOAT
 - F/G JETTY REMEDIATION AREA
 - HISTORICAL SAMPLE LOCATION
 - 2015-2016 SAMPLE LOCATION
 - COL-43 REMEDIATION AREA
 - JET PROBE SAMPLE LOCATION (2016)



BORDER LAST UPDATED 2012-04-01
2016/AUG/01, 3:28pm
Sheet 6 of 39
K:\Projects\0559-Public Works and Government Services Canada\EHRP Definition Phase\D-F-G Combined\Construction Plans\F-G Jetty\0553-PL-G-1.dwg

LEGEND:

- EXISTING CONTOURS (1M AND 5M INTERVAL)
- WORK SITE SEQUENCING BOUNDARY AND DESIGNATION
- DREDGE UNIT BOUNDARY AND DESIGNATION
- SEQUENCING CONTROL POINT



SEQUENCING CONTROL POINTS - D JETTY NORTH ZONE

POINT #	NORTHING	EASTING
1	5365275.82	466644.60
2	5365295.27	466652.96
3	5365309.69	466693.50
4	5365278.32	466963.61
5	5365249.15	466996.51
6	5365227.84	466994.06
7	5365244.17	466956.30
8	5365230.31	466960.23

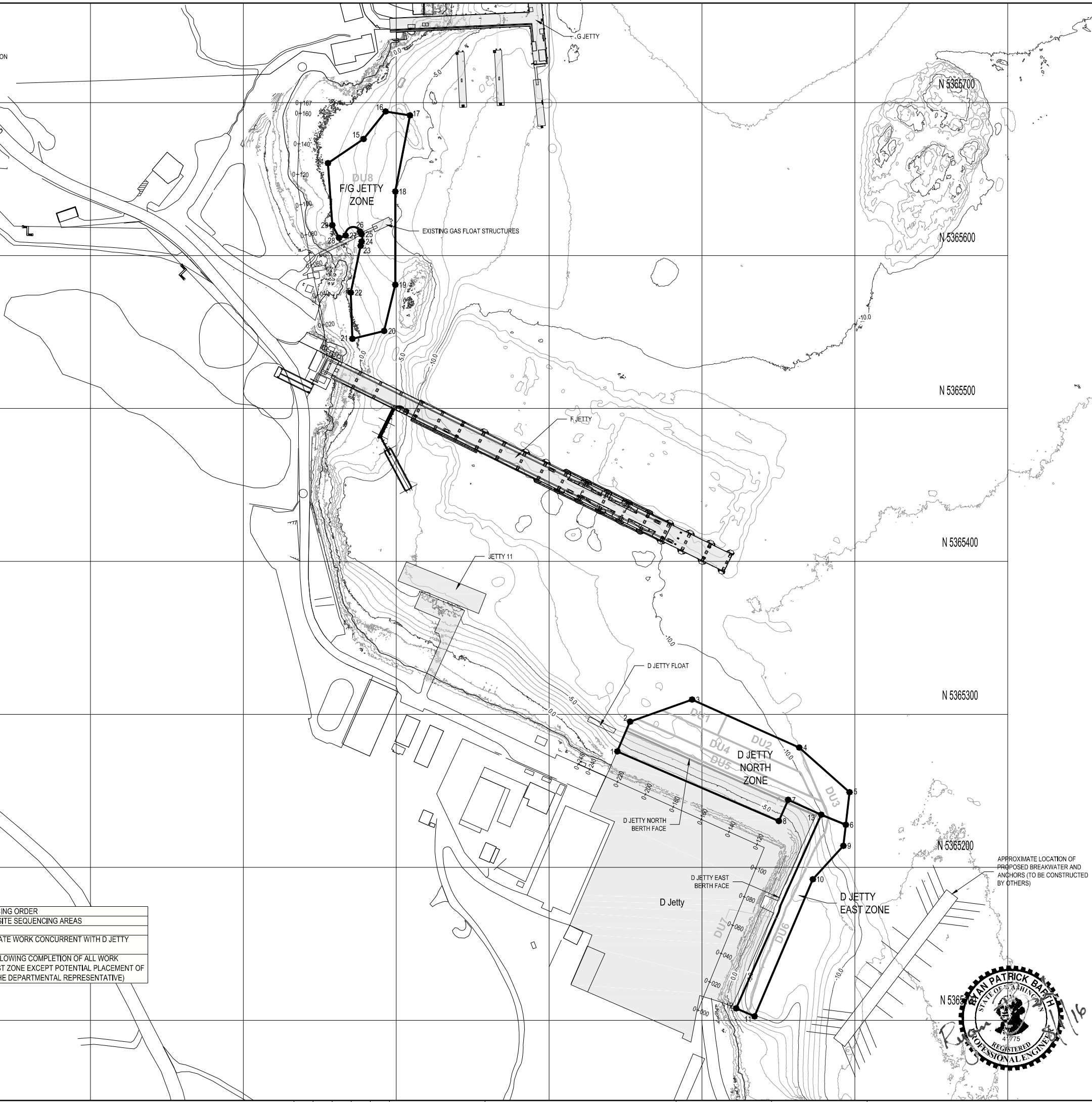
SEQUENCING CONTROL POINTS - D JETTY EAST ZONE

POINT #	NORTHING	EASTING
6	5365227.84	466994.06
9	5365214.09	466992.49
10	5365192.24	466972.54
11	5365102.65	466934.39
12	5365107.81	466922.33
13	5365234.46	466978.00

SEQUENCING CONTROL POINTS - F/G JETTY ZONE

POINT #	NORTHING	EASTING
14	5365960.35	466655.31
15	5366676.16	466678.60
16	5365994.16	466693.00
17	5365991.59	466708.95
18	5365641.84	466699.40
19	5365580.87	466699.40
20	5365550.66	466692.10
21	5365545.55	466671.28
22	5365575.76	466670.24
23	5365606.27	466676.71
24	5365609.12	466677.31
25	5365613.89	466677.25
26	5365615.77	466678.29
27	5365613.12	466666.86
28	5365611.63	466662.58
29	5365619.88	466668.15

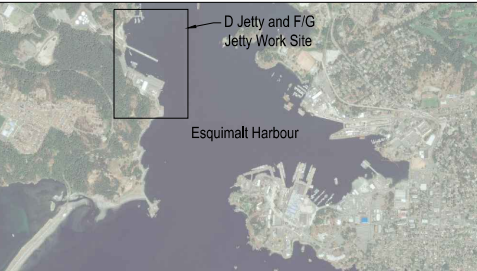
SEQUENCE	WORKSITE SEQUENCING AREAS
1	D JETTY EAST ZONE
2	F/G JETTY ZONE (MAY INITIATE WORK CONCURRENT WITH D JETTY EAST ZONE)
3	D JETTY NORTH ZONE (FOLLOWING COMPLETION OF ALL WORK ACTIVITIES AT D JETTY EAST ZONE EXCEPT POTENTIAL PLACEMENT OF RMC, AND APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE)



LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
- CONTRACTOR SHALL COMPLETE WORK ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND SEQUENCING ORDER TABLE.
 - WORK WITHIN EACH ZONE SHALL BE COMPLETED IN THE FOLLOWING SEQUENCE:
 - COMPLETE ANY STRUCTURE DEMOLITION AND TEMPORARY RELOCATION APPLICABLE TO THAT ZONE.
 - COMPLETE ALL DREDGING ACTIVITIES WITHIN THAT ZONE AND AWAIT ACCEPTANCE FROM THE DEPARTMENTAL REPRESENTATIVE.
 - PLACE BACKFILL MATERIAL WITHIN THAT ZONE AS DESCRIBED IN THE SPECIFICATIONS AND ON THE BACKFILL DRAWINGS.
 - COMPLETE STRUCTURE REINSTATEMENT ACTIVITIES WITHIN THAT ZONE, IF APPLICABLE.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
1:1250

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/07/12

SUBJECT | SUJET
REMEDATION SEQUENCING PLAN

DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	
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
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
G-3

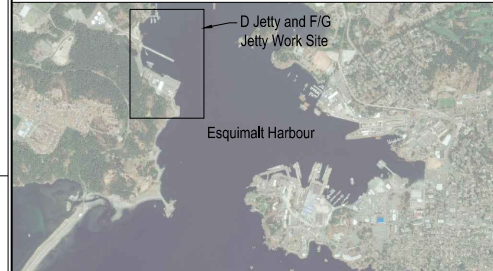


BORDER LAST UPDATED 2012-04-01
K:\Projects\0553-Public Works and Government Services Canada\EHRP - Definition Phase\D-F-G Combined\Construction Plans\0553-PL-SEQUENCING.dwg
2016/Aug/01, 3:30pm chawett

- LEGEND:**
- EXISTING CONTOURS (1M AND 5M INTERVAL)
 - EXISTING SHORELINE
 - EXISTING JETTY
 - EXTENT OF REQUIRED DREDGING
 - ▨ REQUIRED SLOPE DREDGING
 - DREDGING CONTROL POINT
 - ▧ ABALONE HABITAT (DO NOT DISTURB)

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

- NOTES:**
1. CONTRACTOR SHALL COMPLETE DREDGING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND SHEET G-3.
 2. NO IN-WATER STOCKPILING OF SEDIMENT OR DEBRIS IS ALLOWED.
 3. CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR PROTECTION OF EXISTING JETTY STRUCTURES.
 4. THE D JETTY NORTH BERTH AND EAST BERTH STRUCTURES REQUIRED TO BE REMOVED ARE SHOWN ON SHEETS S-3 AND S-4, THE STORAGE LOCATION SHALL BE IDENTIFIED IN THE CONSTRUCTION WORK PLAN.
 5. NO DREDGING SHALL BE PERFORMED WITHIN 2M OF THE NORTH BERTH JETTY FACE.
 6. NO DREDGING SHALL BE PERFORMED WITHIN 3M OF THE EAST BERTH JETTY FACE.
 7. REQUIRED DREDGING ELEVATION AT THE 2M NORTH PIER FACE OFFSET IS -9m CD.
 8. UNLESS NOTED, DREDGE SLOPE AREAS TO BE CUT AT 2H:1V.
 9. NO PASSIVE DEWATERING OR DISCHARGE FROM BARGES IS ALLOWED DURING DREDGING IN DU4 AND DU5.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
1:750

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMIEDIATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

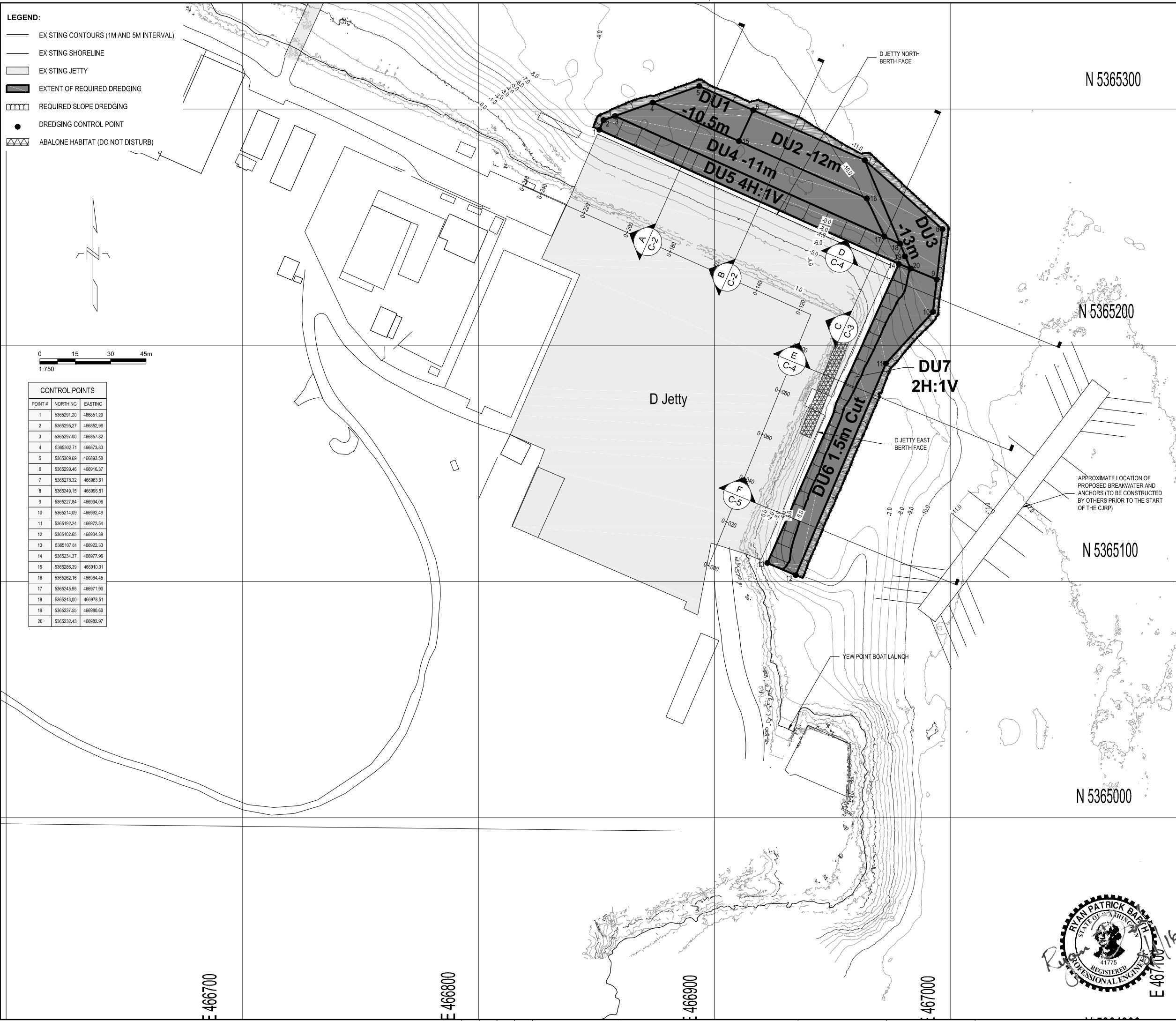
DATE
2016/07/12

SUBJECT | SUJET
**REQUIRED DREDGING PLAN -
D JETTY**

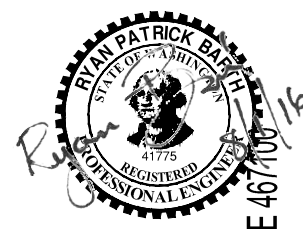
PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	XX.	
DRAWN DESSINÉ	C. HEWETT		PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ	T. WANG		DES MGR GEST CONC
COORDINATION			FIRE INCENDIE

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-1



POINT #	NORTHING	EASTING
1	5365291.20	466851.20
2	5365295.27	466852.96
3	5365297.00	466857.82
4	5365302.71	466873.83
5	5365309.69	466893.50
6	5365290.46	466916.37
7	5365278.32	466963.61
8	5365249.15	466996.51
9	5365227.84	466994.06
10	5365214.09	466992.49
11	5365192.24	466972.54
12	5365102.65	466934.39
13	5365107.81	466922.33
14	5365234.37	466977.96
15	5365286.39	466910.31
16	5365262.16	466904.45
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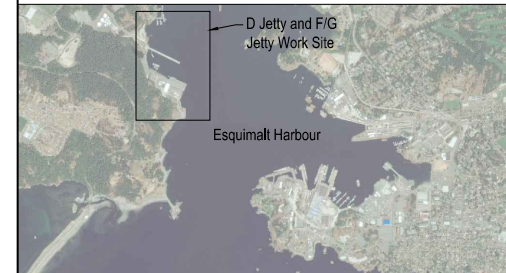


2016/Aug/03, 8:18am Sheet 6 of 39 K:\Projects\0653-Public Works and Government Services Canada\EHRP Definition Phase\D-F-G Combined\Construction Plans\0653-PL-C_C_SERIES.dwg

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).

- NOTES:
- CONTRACTOR SHALL DREDGE D JETTY WORK ZONE SLOPES 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 CAUSED BY EXCESSIVE DREDGING SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 - POTENTIAL SLOUGH MATERIAL OR SLOUGH VOLUME, IS DEFINED AS SEDIMENT ON A SIDE SLOPE THAT LOSES TOE SUPPORT AND SLOUGHS INTO THE DREDGE PRISM. CONTRACTOR SHALL REMOVE SLOUGH MATERIAL TO ACHIEVE THE REQUIRED DREDGE ELEVATION. NO SEPARATE PAYMENT FOR SLOUGH MATERIAL SHALL BE MADE. CONTRACTOR TO INCLUDE ANTICIPATED SLOUGH VOLUME COSTS IN BID PRICE.
 - UNDERPIER SLOUGH ANGLE ESTIMATED AT 1.5H:1V FOR PURPOSES OF BID. CONTRACTOR TO INCLUDE ANTICIPATED SLOUGH VOLUME COSTS IN BID PRICE.
 - CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR PROTECTION OF EXISTING STRUCTURES.
 - PAYABLE ALLOWABLE OVERDREDGE IS 0.3m IN REQUIRED DREDGE AREAS.
 - HARD BOTTOM SURFACE MAY BE ENCOUNTERED WHILE DREDGING. IF HARD BOTTOM IS ENCOUNTERED, DO NOT DREDGE HARD BOTTOM AND INFORM DEPARTMENTAL REPRESENTATIVE. HARD BOTTOM INCLUDES BEDROCK, TILL, UNDERLYING CLAY OR ROCK, OR CONTIGUOUS RIP RAP.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

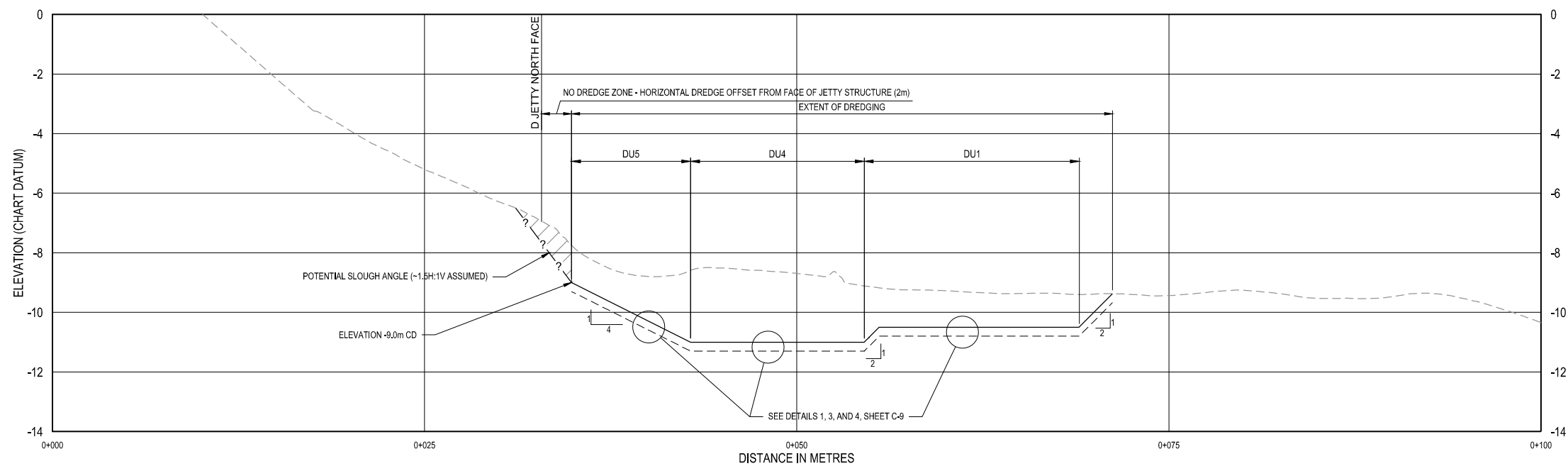
DATE
2016/07/12

SUBJECT | SUJET
**DREDGE CROSS SECTIONS -
D JETTY NORTH ZONE (1 OF 2)**

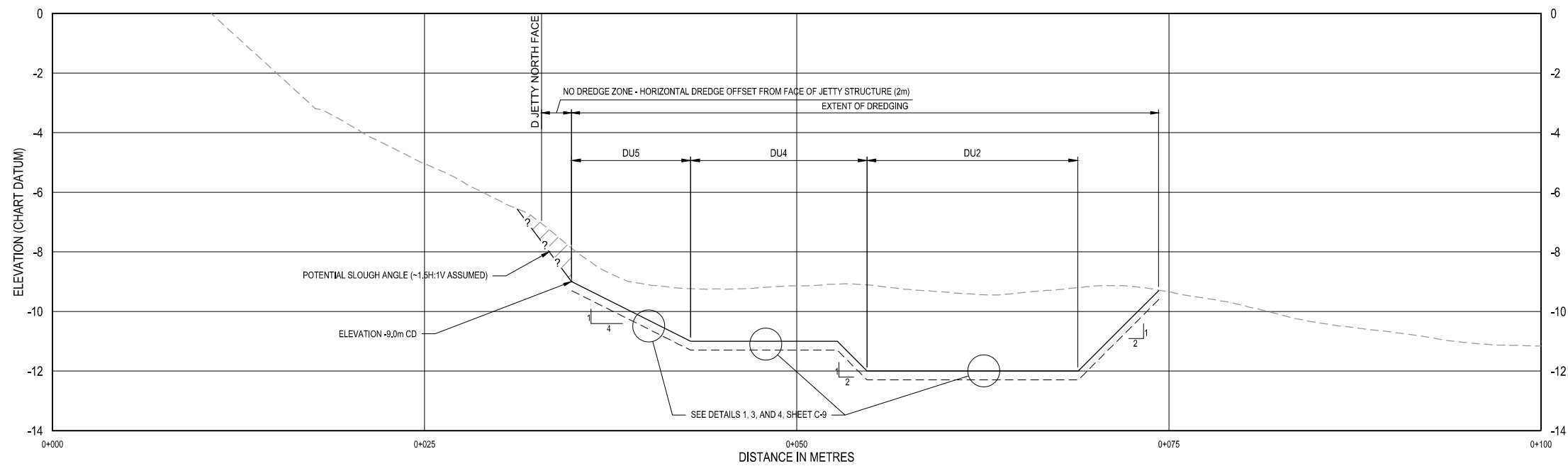
PRODUCTION	ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	X.X.	
C. HEWETT			PROJ MGR GEST PROJ
T. WANG			DES MGR GEST CONC
COORDINATION			FIRE INCENDIE

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-2

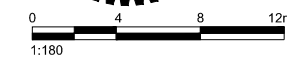


A
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90



B
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

- LEGEND:
- EXISTING SEABED ELEVATION
 - REQUIRED DREDGE THICKNESS OR ELEVATION
 - PAYABLE OVERDREDGE ALLOWANCE (0.3m MAX.)
 - /// ANTICIPATED SLOUGH MATERIAL

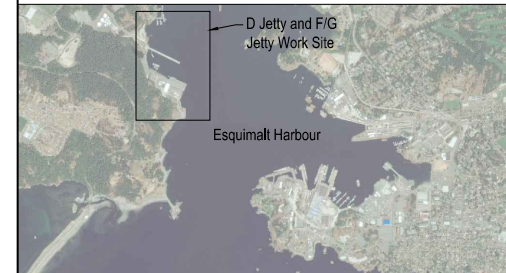


BORDER LAST UPDATED 2012-04-01
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C-2
2016/Aug/01, 3:31pm
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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
- CONTRACTOR SHALL DREDGE D JETTY WORK ZONE SLOPES 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 CAUSED BY EXCESSIVE DREDGING SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 - POTENTIAL SLOUGH MATERIAL OR SLOUGH VOLUME, IS DEFINED AS SEDIMENT ON A SIDE SLOPE THAT LOSES TOE SUPPORT AND SLOUGHS INTO THE DREDGE PRISM. CONTRACTOR SHALL REMOVE SLOUGH MATERIAL TO ACHIEVE THE REQUIRED DREDGE ELEVATION. NO SEPARATE PAYMENT FOR SLOUGH MATERIAL SHALL BE MADE. CONTRACTOR TO INCLUDE ANTICIPATED SLOUGH VOLUME COSTS IN BID PRICE.
 - UNDERPIER SLOUGH ANGLE ESTIMATED AT 1.5H:1V FOR PURPOSES OF BID. CONTRACTOR TO INCLUDE ANTICIPATED SLOUGH VOLUME COSTS IN BID PRICE.
 - CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR PROTECTION OF EXISTING STRUCTURES.
 - PAYABLE ALLOWABLE OVERDREDGE IS 0.3m IN REQUIRED DREDGE AREAS.
 - HARD BOTTOM SURFACE MAY BE ENCOUNTERED WHILE DREDGING. IF HARD BOTTOM IS ENCOUNTERED, DO NOT DREDGE HARD BOTTOM AND INFORM DEPARTMENTAL REPRESENTATIVE. HARD BOTTOM INCLUDES BEDROCK, TILL, UNDERLYING CLAY OR ROCK, OR CONTIGUOUS RIP RAP.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

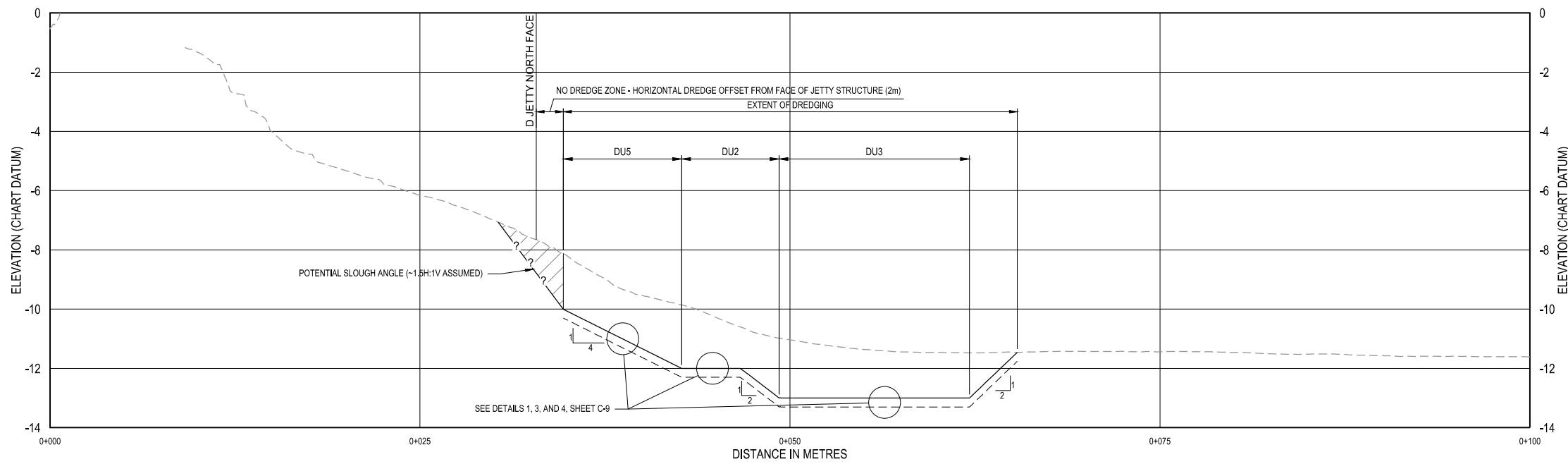
DATE
2016/07/12

SUBJECT | SUJET
**DREDGE CROSS SECTIONS -
D JETTY NORTH ZONE (2 OF 2)**

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

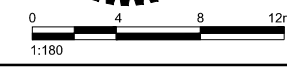
WBS NO. | NO. OTP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-3



C
C-1
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

- LEGEND:
- EXISTING SEABED ELEVATION
 - REQUIRED DREDGE THICKNESS OR ELEVATION
 - - - PAYABLE OVERDREDGE ALLOWANCE (0.3m MAX.)
 - /// ANTICIPATED SLOUGH MATERIAL

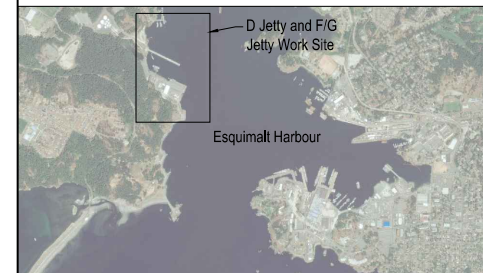


BORDER LAST UPDATED 2012-04-01
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C-3 chawett 2016/Aug/01, 3:31pm Sheet 10 of 39

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).

- NOTES:
- CONTRACTOR SHALL DREDGE D JETTY WORK ZONE SLOPES 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 CAUSED BY EXCESSIVE DREDGING SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
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 - UNDERPIER SLOUGH ANGLE ESTIMATED AT 1:5H:1V FOR PURPOSES OF BID. CONTRACTOR TO INCLUDE ANTICIPATED SLOUGH VOLUME COSTS IN BID PRICE.
 - CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR PROTECTION OF EXISTING STRUCTURES.
 - PAYABLE ALLOWABLE OVERDREDGE IS 0.3m IN REQUIRED DREDGE AREAS.
 - HARD BOTTOM SURFACE MAY BE ENCOUNTERED WHILE DREDGING. IF HARD BOTTOM IS ENCOUNTERED, DO NOT DREDGE HARD BOTTOM AND INFORM DEPARTMENTAL REPRESENTATIVE. HARD BOTTOM INCLUDES BEDROCK, TILL, UNDERLYING CLAY OR ROCK, OR CONTIGUOUS RIP RAP.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

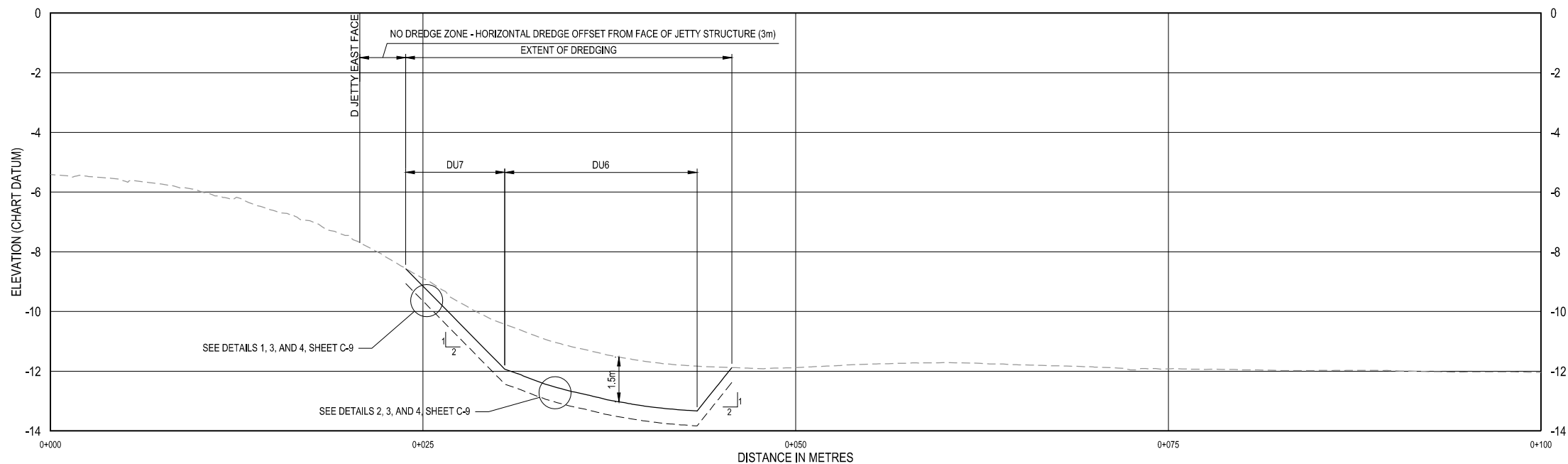
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2016/07/12

SUBJECT | SUJET
**DREDGE CROSS SECTIONS -
D JETTY EAST ZONE (1 OF 2)**

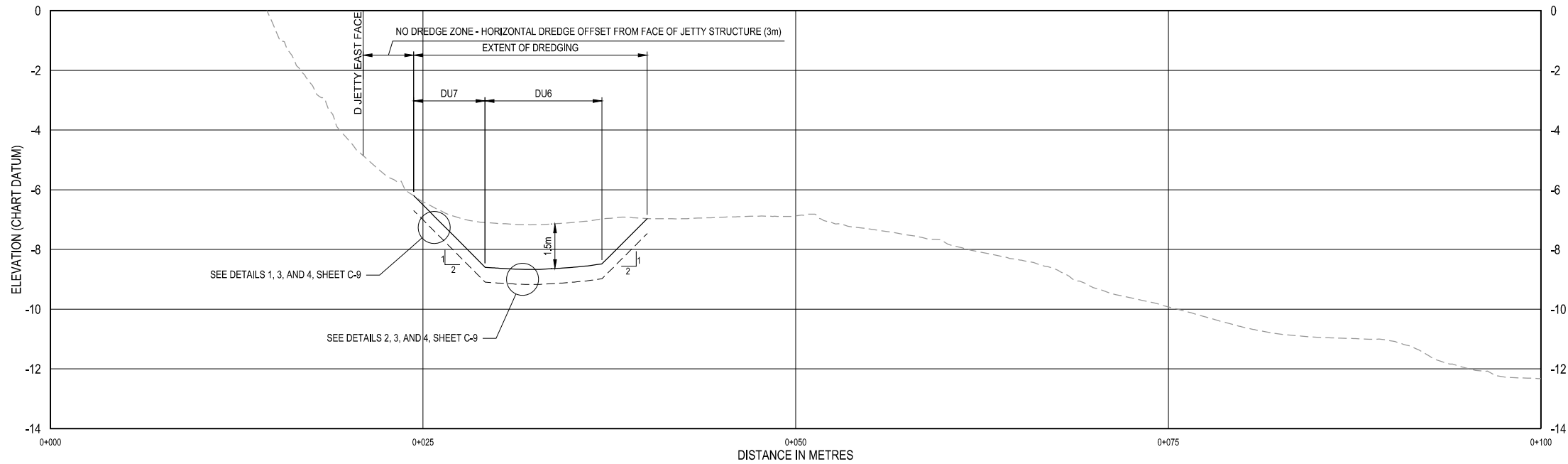
PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	XX.	
DRAWN DESSINÉ	C. HEWETT		PROJ MGR GEST PROJ
CHECKED VÉRIFIÉ	T. WANG		DES MGR GEST CONC
COORDINATION			FIRE INCENDIE

WBS NO. | NO. OTP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-4

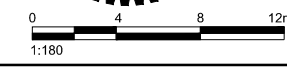


D
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90



E
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

LEGEND:
--- EXISTING SEABED ELEVATION
--- REQUIRED DREDGE THICKNESS
--- PAYABLE OVERDREDGE ALLOWANCE (0.3m MAX.)

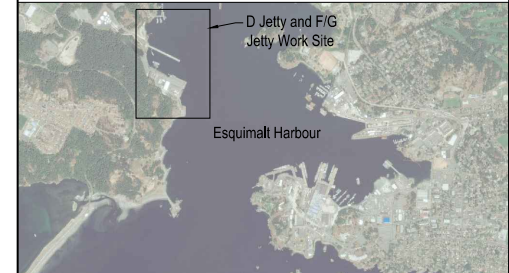


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C-4
2016/Aug/01, 3:31pm
Sheet 11 of 39

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

- NOTES:
- CONTRACTOR SHALL DREDGE D JETTY WORK ZONE SLOPES 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 CAUSED BY EXCESSIVE DREDGING SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 - POTENTIAL SLOUGH MATERIAL OR SLOUGH VOLUME, IS DEFINED AS SEDIMENT ON A SIDE SLOPE THAT LOSES TOE SUPPORT AND SLOUGHS INTO THE DREDGE PRISM. CONTRACTOR SHALL REMOVE SLOUGH MATERIAL TO ACHIEVE THE REQUIRED DREDGE ELEVATION. NO SEPARATE PAYMENT FOR SLOUGH MATERIAL SHALL BE MADE. CONTRACTOR TO INCLUDE ANTICIPATED SLOUGH VOLUME COSTS IN BID PRICE.
 - UNDERPIER SLOUGH ANGLE ESTIMATED AT 1:5H:1V FOR PURPOSES OF BID. CONTRACTOR TO INCLUDE ANTICIPATED SLOUGH VOLUME COSTS IN BID PRICE.
 - CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR PROTECTION OF EXISTING STRUCTURES.
 - PAYABLE ALLOWABLE OVERDREDGE IS 0.3m IN REQUIRED DREDGE AREAS.
 - HARD BOTTOM SURFACE MAY BE ENCOUNTERED WHILE DREDGING. IF HARD BOTTOM IS ENCOUNTERED, DO NOT DREDGE HARD BOTTOM AND INFORM DEPARTMENTAL REPRESENTATIVE. HARD BOTTOM INCLUDES BEDROCK, TILL, UNDERLYING CLAY OR ROCK, OR CONTIGUOUS RIP RAP.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

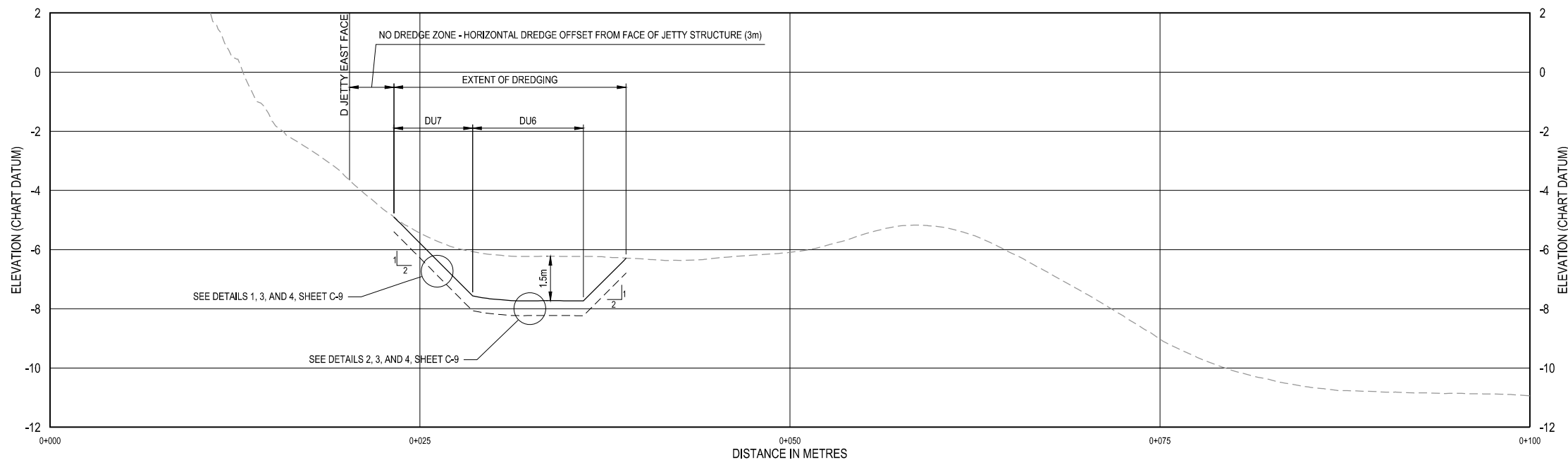
DATE
2016/07/12

SUBJECT | SUJET
**DREDGE CROSS SECTIONS -
D JETTY EAST ZONE (2 OF 2)**

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

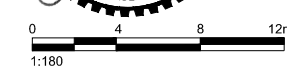
WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-5



F
C-1
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

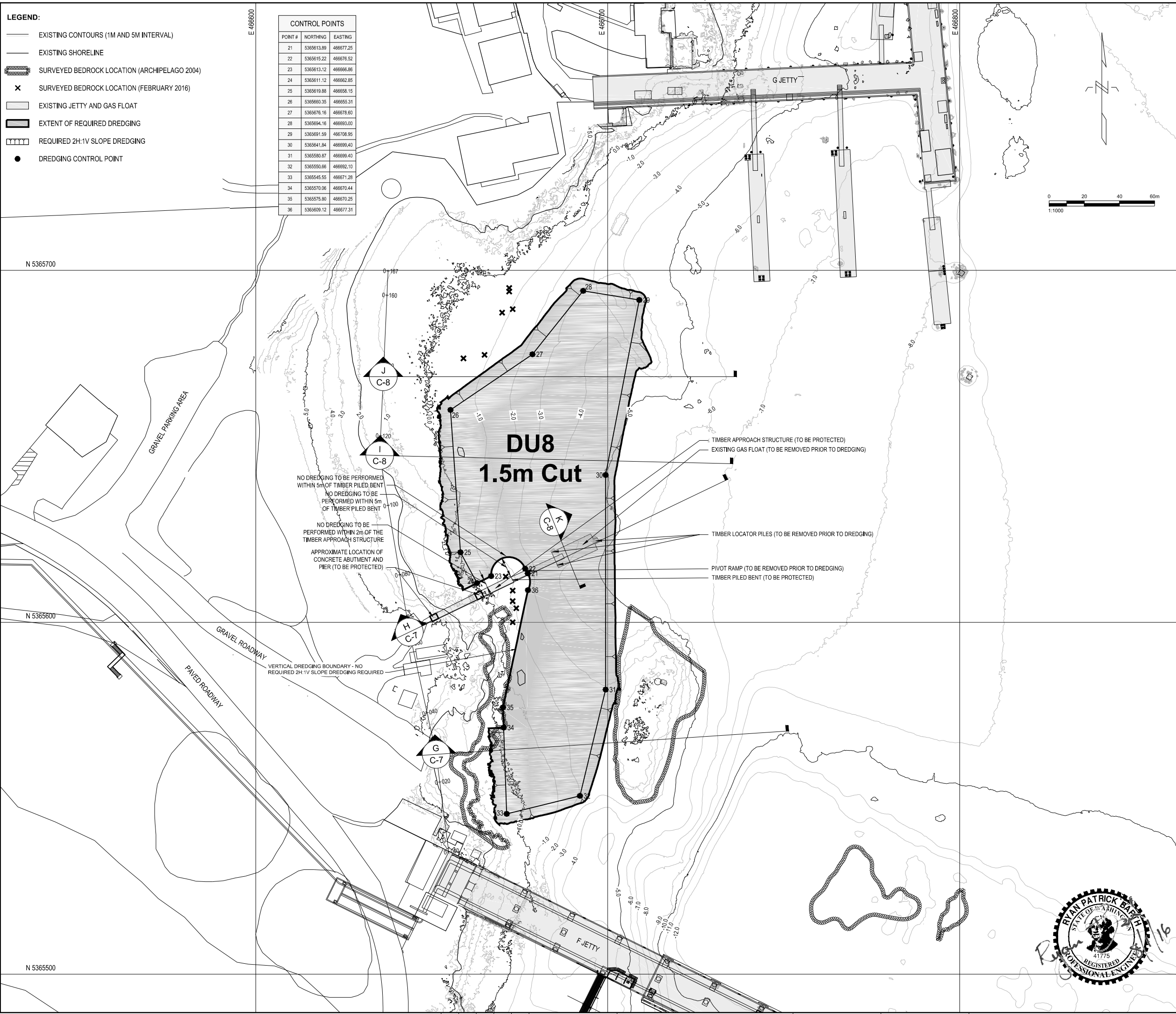
LEGEND:
--- EXISTING SEABED ELEVATION
— REQUIRED DREDGE THICKNESS
- - - PAYABLE OVERDREDGE ALLOWANCE (0.3m MAX.)



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C-5 chawett

- LEGEND:**
- EXISTING CONTOURS (1M AND 5M INTERVAL)
 - EXISTING SHORELINE
 - SURVEYED BEDROCK LOCATION (ARCHIPELAGO 2004)
 - SURVEYED BEDROCK LOCATION (FEBRUARY 2016)
 - EXISTING JETTY AND GAS FLOAT
 - EXTENT OF REQUIRED DREDGING
 - REQUIRED 2H:1V SLOPE DREDGING
 - DREDGING CONTROL POINT

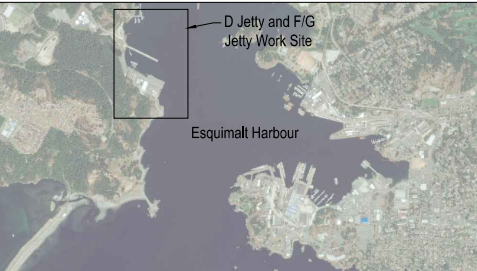
CONTROL POINTS		
POINT #	NORTHING	EASTING
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22	5365615.22	466676.52
23	5365613.12	466696.86
24	5365611.12	466682.85
25	5365619.88	466656.15
26	5365660.35	466655.31
27	5365676.16	466678.60
28	5365694.16	466693.00
29	5365691.99	466708.95
30	5365641.84	466699.40
31	5365590.87	466699.40
32	5365550.66	466692.10
33	5365545.55	466671.28
34	5365570.06	466670.44
35	5365575.80	466670.25
36	5365609.12	466677.31



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

- NOTES:**
- CONTRACTOR SHALL COMPLETE DREDGING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND SHEET G-3.
 - NO IN-WATER STOCKPILING OF SEDIMENT OR DEBRIS IS ALLOWED.
 - CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR SHALLOW WATER DEPTHS UNDER RANGE OF TIDAL CONDITIONS AND PROTECTION OF EXISTING STRUCTURES.
 - THE F/G JETTY STRUCTURES REQUIRED TO BE REMOVED ARE SHOWN ON SHEET S-12. CONTRACTOR TO STORE REMOVED LOCATOR PILES, PIVOT RAMP, AND GAS FLOAT AT TEMPORARY STORAGE LOCATION IDENTIFIED IN CONSTRUCTION WORK PLAN.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
1:1000

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMIEDIATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/07/12

SUBJECT | SUJET
**REQUIRED DREDGING PLAN -
F/G JETTY**

PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	XX.	
C. HEWETT			PROJ MGR GEST PROJ
T. WANG			DES MGR GEST CONC
COORDINATION			FIRE INCENDIE

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-6

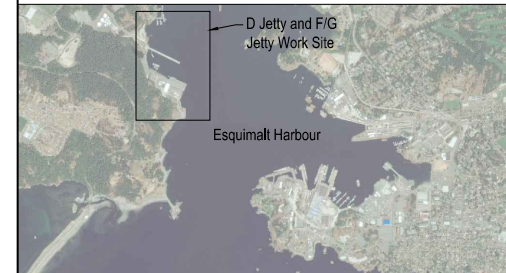


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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
- CONTRACTOR SHALL DREDGE FIG JETTY ZONE SLOPE AT 2H:1V AS SHOWN AND DESCRIBED IN THE SPECIFICATIONS, EXCEPT AS NOTED ON DRAWING C-6.
 - DO NOT PERFORM EXCESSIVE OVERDREDGING AT TOE OF CUT OR ON SLOPE AREAS. ANY DAMAGE TO EXISTING STRUCTURES CAUSED BY EXCESSIVE DREDGING SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
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NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMIEDIATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

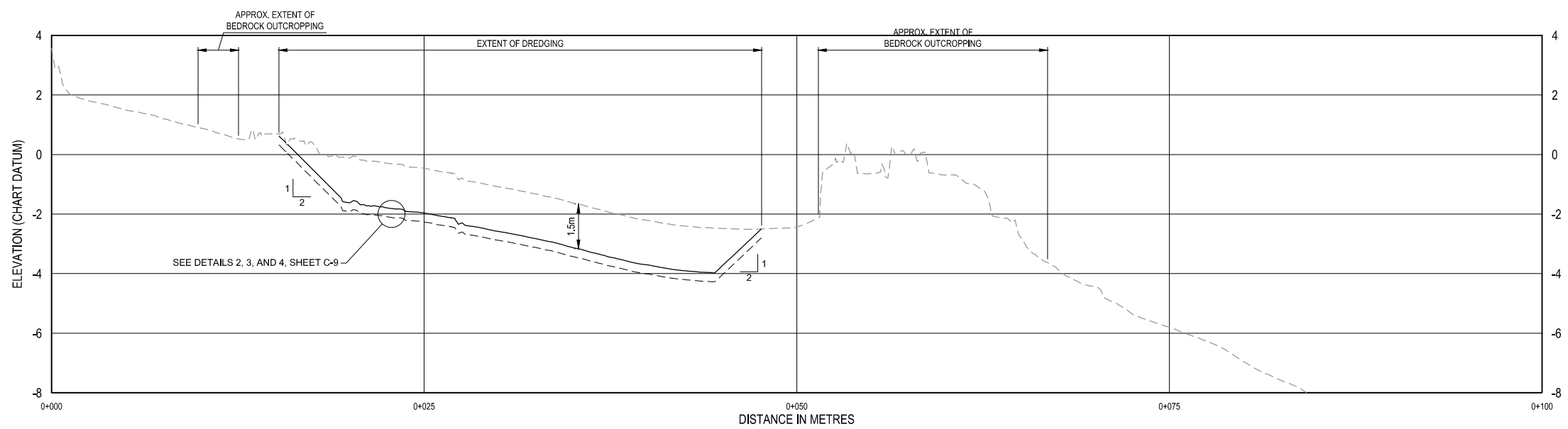
DATE
2016/07/12

SUBJECT | SUJET
**DREDGE CROSS SECTIONS -
F/G JETTY ZONE (1 OF 2)**

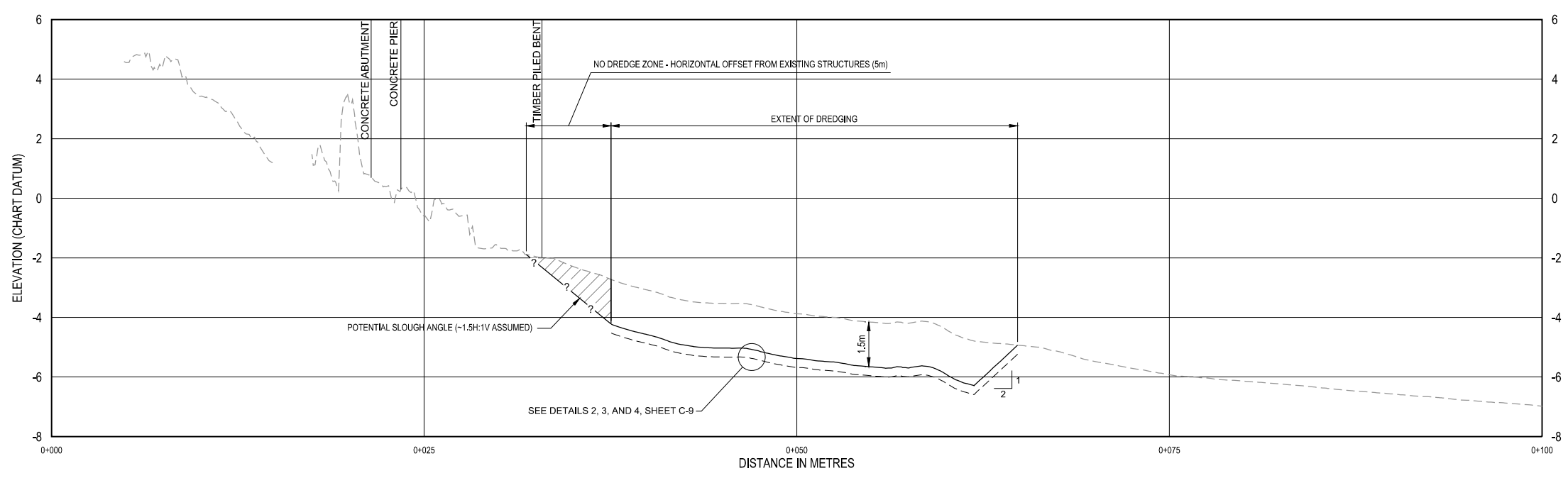
PRODUCTION ÉTUDE	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	
C. HEWETT		PROJ MGR GEST PROJ
T. WANG		DES MGR GEST CONC
COORDINATION		FIRE INCENDIE

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-7



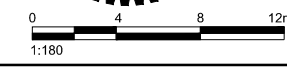
G
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90



H
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

LEGEND:

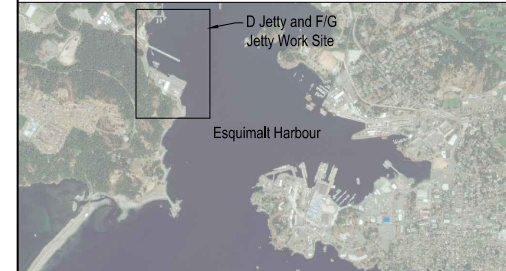
- EXISTING SEABED ELEVATION
- REQUIRED DREDGE THICKNESS (1.5m MIN.)
- PAYABLE OVERDREDGE ALLOWANCE (0.3m MAX.)
- /// ANTICIPATED SLOUGH MATERIAL



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Esquimalt Harbour

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

- NOTES:
- CONTRACTOR SHALL DREDGE FIG JETTY ZONE SLOPE AT 2H:1V AS SHOWN AND DESCRIBED IN THE SPECIFICATIONS, EXCEPT AS NOTED ON DRAWING C-6.
 - DO NOT PERFORM EXCESSIVE OVERDREDGING AT TOE OF CUT OR ON SLOPE AREAS. ANY DAMAGE TO EXISTING STRUCTURES CAUSED BY EXCESSIVE DREDGING SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
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 - PAYABLE ALLOWABLE OVERDREDGE IS 0.3m IN REQUIRED DREDGE AREAS.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMIEDIATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

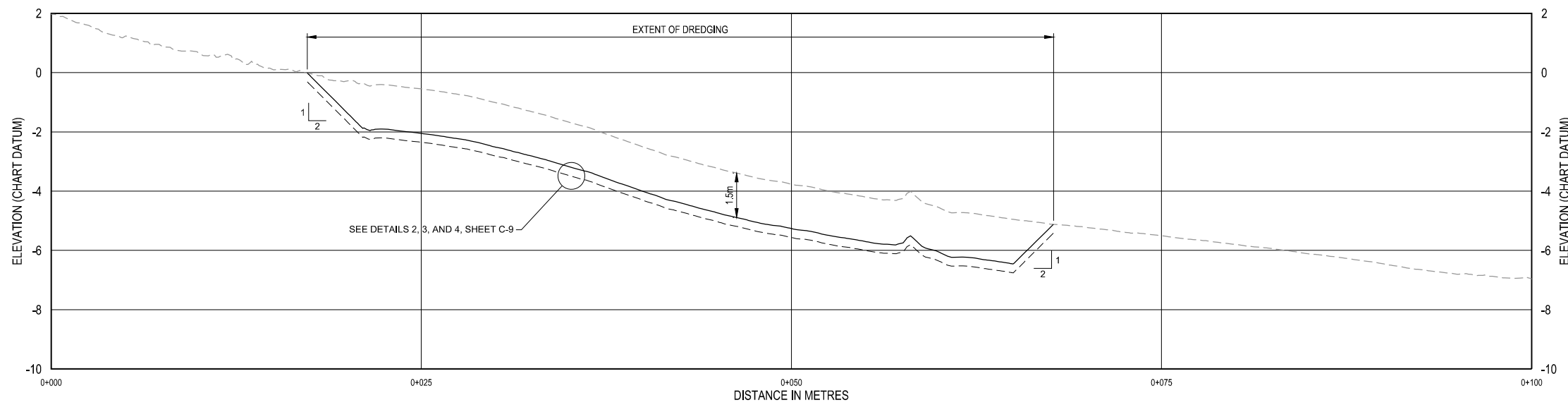
DATE
2016/07/12

SUBJECT | SUJET
**DREDGE CROSS SECTIONS -
F/G JETTY ZONE (2 OF 2)**

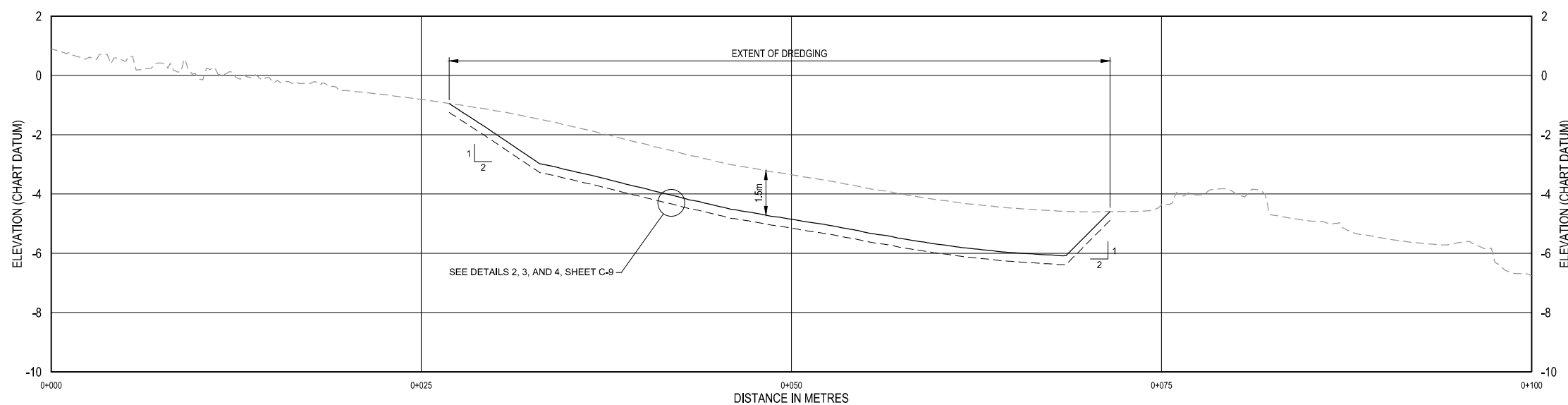
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R. BARTH	XX XX	XX.	
C. HEWETT			PROJ MGR GEST PROJ
T. WANG			DES MGR GEST CONC
			FIRE INCENDIE

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

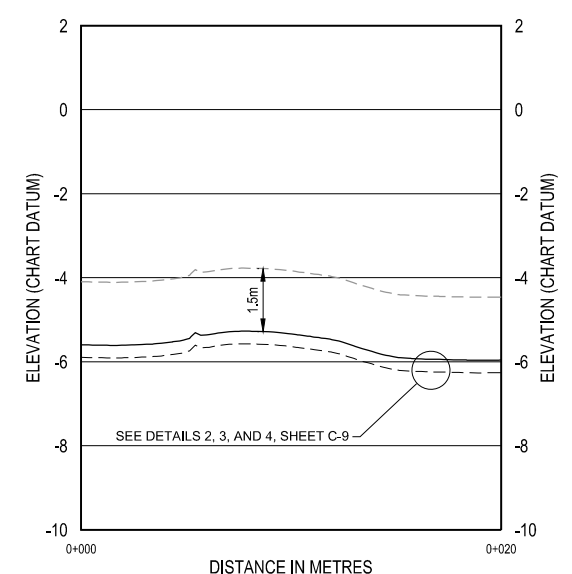
DWG. NO. | NO. DESSIN
C-8



I
C-6
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

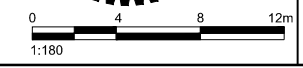


J
C-6
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90



K
C-6
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

LEGEND (REQUIRED DREDGING):
 - - - EXISTING SEABED ELEVATION
 ——— REQUIRED DREDGE THICKNESS (1.5m MIN.)
 - - - PAYABLE OVERDREDGE ALLOWANCE (0.3m MAX.)



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Sheet 15 of 39

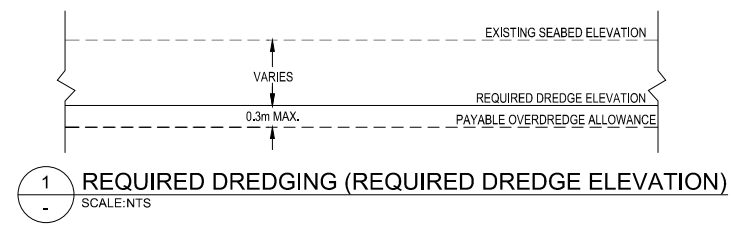
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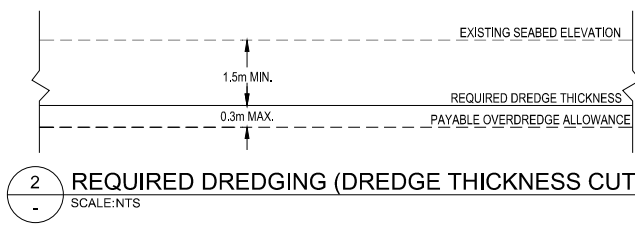
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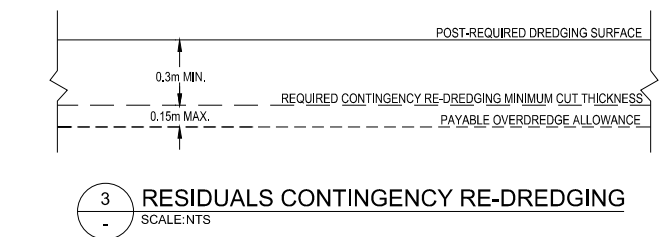
- NOTES:**
1. THE REQUIRED DREDGE ELEVATION AND DREDGE THICKNESS CUTS ARE DEFINED ON DRAWINGS C-1 AND C-6.
 2. CONTINGENCY RE-DREDGING FOR REMOVAL OF EITHER RESIDUALS AND/OR MISSED INVENTORY SHALL BE ADDITIONAL DREDGING AS SPECIFIED BY THE DEPARTMENTAL REPRESENTATIVE AFTER REQUIRED DREDGING ACTIVITIES HAVE BEEN COMPLETED AND BASED ON DEPARTMENTAL REPRESENTATIVE CONDUCTED POST-DREDGE CONFIRMATION SAMPLING AND TESTING RESULTS.



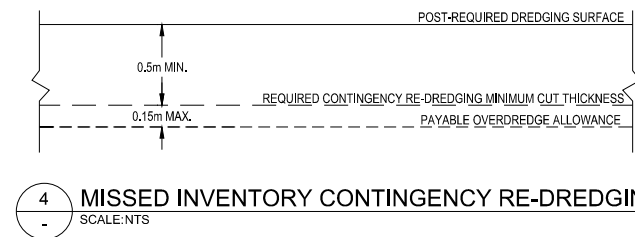
1 REQUIRED DREDGING (REQUIRED DREDGE ELEVATION)
SCALE: NTS



2 REQUIRED DREDGING (DREDGE THICKNESS CUT)
SCALE: NTS



3 RESIDUALS CONTINGENCY RE-DREDGING
SCALE: NTS



4 MISSED INVENTORY CONTINGENCY RE-DREDGING
SCALE: NTS

0	2016/08/01	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD

PROJECT | PROJET
COLWOOD JETTIES
REMEDICATION PROJECT

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/07/12

SUBJECT | SUJET
DREDGING DETAILS

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

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-9

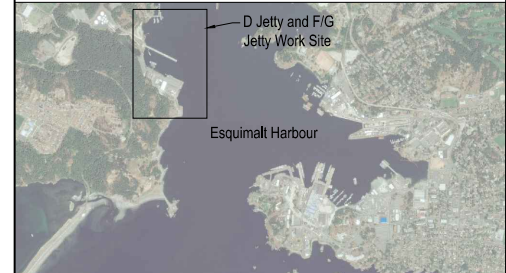


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C-9 chawett

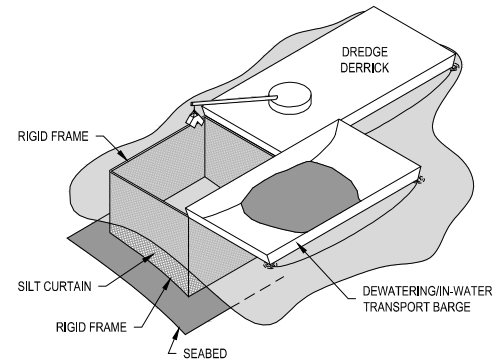
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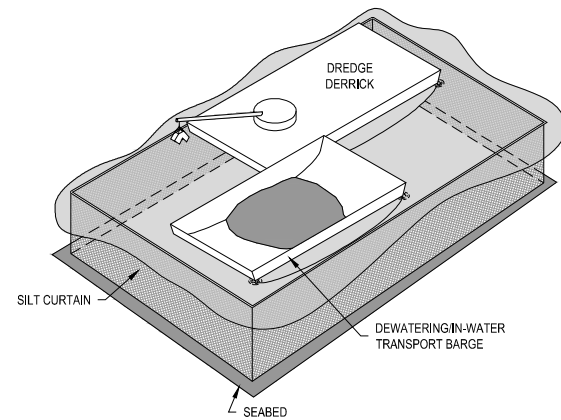
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- NOTES:**
1. EXAMPLES SHOWN ARE FOR CONTRACTOR INFORMATION ONLY AND INTENDED TO SHOW EXAMPLE BEST MANAGEMENT PRACTICES. DESIGN AND OPERATIONS OF CONTAINMENT SILT CURTAINS, STOCKPILE MANAGEMENT AND OFFLOADING OPERATIONS ARE THE RESPONSIBILITY OF THE 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 SHALL DRAIN ONTO BARGE OR WITHIN A CONTAINED UPLOAD AREA. SPILL PROTECTION SHALL BE CONSTRUCTED FROM IMPERVIOUS MATERIAL.
 3. CONTRACTOR TO DETERMINE OFFSITE OFFLOADING AND DISPOSAL FACILITIES AND OBTAIN DEPARTMENTAL REPRESENTATIVE'S ACCEPTANCE PRIOR TO USE. THE SILT CURTAIN SHALL EXTEND A MINIMUM OF 5m BELOW WATER SURFACE, OR TO JUST ABOVE THE SEABED SURFACE, WHICHEVER IS SHALLOWER. IT SHALL 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 EMP.
 - 4.



EXAMPLE SILT CURTAIN ARRANGEMENT
SILT CURTAIN AFFIXED TO DREDGE DERRICK (NOT TO SCALE)



EXAMPLE SILT CURTAIN ARRANGEMENT
SILT CURTAIN SURROUNDING DREDGING FLOATING EQUIPMENT
(NOT TO SCALE)

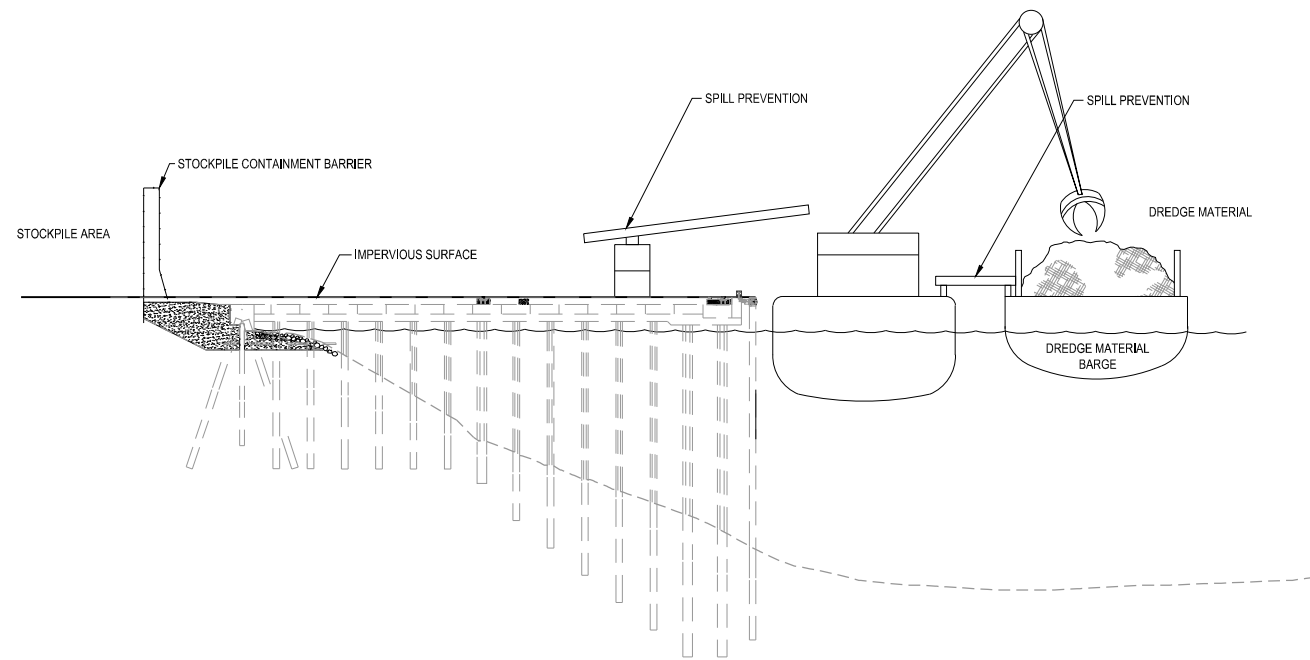


PHOTO 1: EXAMPLE OF OFFLOADING OPERATIONAL CONTROLS



PHOTO 2: EXAMPLE OF OFFLOADING OPERATIONAL CONTROLS

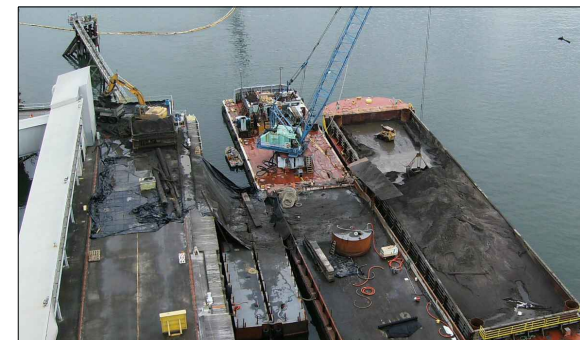


PHOTO 3: EXAMPLE OF OFFLOADING TO TRUCKS OPERATIONAL CONTROLS

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE

N/A

LOCATION | EMPLACEMENT

D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD

PROJECT | PROJET

COLWOOD JETTIES
REMIEDIATION PROJECT

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/07/12

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. BARTH	C. HEWETT	T. WANG		XX XX				

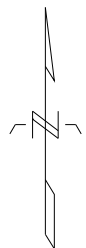
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PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-10

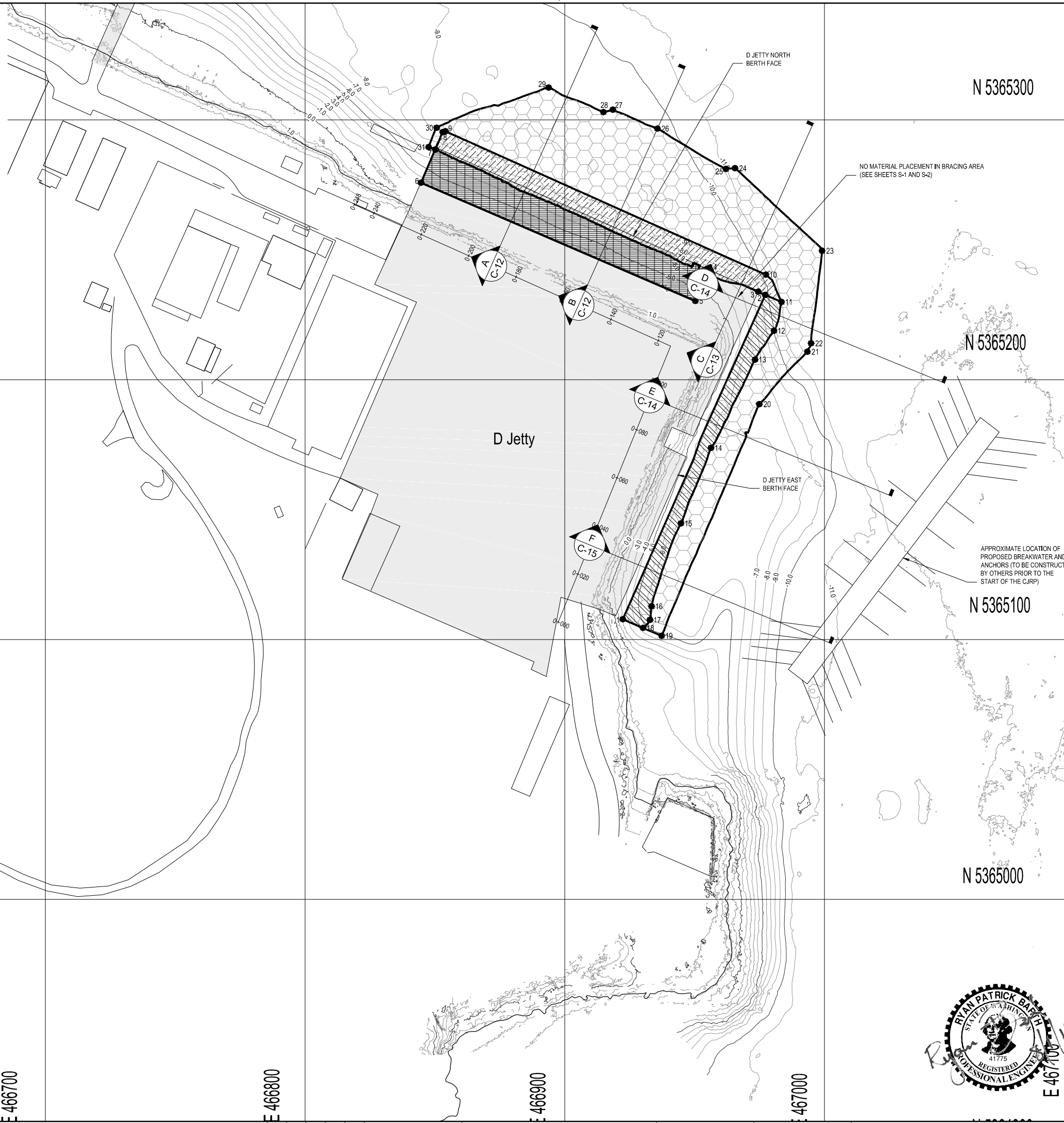


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C-10 chawett

- LEGEND:**
- EXISTING CONTOURS (1M AND 5M INTERVAL)
 - EXISTING SHORELINE
 - EXISTING JETTY
 - ▨ POTENTIAL RMC PLACEMENT AREA
 - ▨ STRUCTURAL BACKFILL TYPE A PLACEMENT AREA
 - ▨ STRUCTURAL BACKFILL TYPE B PLACEMENT AREA
 - ▨ UNDERPIER COVER PLACEMENT AREA
 - EXTENT OF BACKFILL MATERIAL



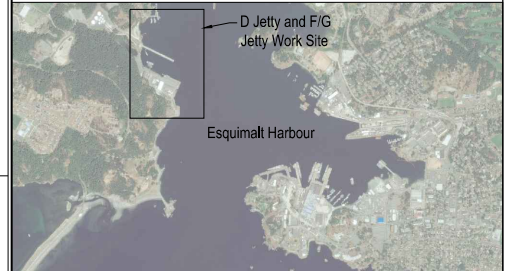
CAPPING CONTROL POINTS		
POINT #	NORTHING	EASTING
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2	5365232.83	466977.18
3	5365233.86	466974.44
4	5365242.30	466965.59
5	5365230.32	466990.24
6	5365275.82	466844.60
7	5365288.61	466850.12
8	5365295.27	466852.96
9	5365295.63	466853.99
10	5365240.41	466977.30
11	5365229.92	466983.42
12	5365218.84	466980.53
13	5365207.74	466973.24
14	5365173.75	466956.27
15	5365144.88	466944.70
16	5365112.78	466933.39
17	5365107.55	466932.74
18	5365104.46	466930.12
19	5365101.42	466937.27
20	5365190.57	466974.89
21	5365210.77	466993.40
22	5365214.00	466994.83
23	5365249.61	466999.06
24	5365281.40	466965.53
25	5365281.11	466962.04
26	5365296.85	466935.64
27	5365303.90	466918.47
28	5365303.00	466914.86
29	5365312.46	466893.73
30	5365296.97	466850.64
31	5365289.52	466847.54



LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
 HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
 VERTICAL DATUM: CHART DATUM (CD).

NOTES:

- CONTRACTOR SHALL COMPLETE BACKFILL MATERIAL PLACEMENT ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND SHEET G-3.
- WHEN PLACING BACKFILL MATERIALS ON SLOPES, ALL BACKFILL MATERIAL SHALL BE PLACED FROM THE BOTTOM (TOE) OF SLOPE UPWARD EXCEPT FOR UNDERPIER COVER MATERIAL, AS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS THAT ALLOW FOR THE COMPLETE COVERAGE OF THE DESIGNATED AREA AND MINIMIZES DISTURBANCE TO THE EXISTING DREDGED SEDIMENT SURFACE. CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR RANGE OF TIDAL ELEVATIONS AND JETTY BOTTOM OF DECK ELEVATION ACCESS WHEN PLACING UNDERPIER COVER.
- CONTRACTOR SHALL PLACE RMC MATERIAL IN AREAS IDENTIFIED BY THE DEPARTMENTAL REPRESENTATIVE BASED ON THE RESULTS OF POST-DREDGE CONFIRMATION TESTING PERFORMED BY DEPARTMENTAL REPRESENTATIVE.

0	2016/08/01	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
 1:750

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
 CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
 REMEDIATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

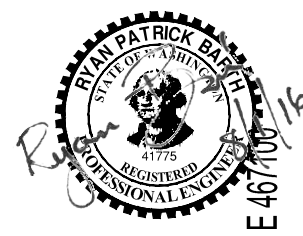
DATE
 2016/07/12

SUBJECT | SUJET
**REQUIRED BACKFILL PLAN -
 D JETTY**

PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	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
 PF NO. | NO. DP
 R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
 C-11

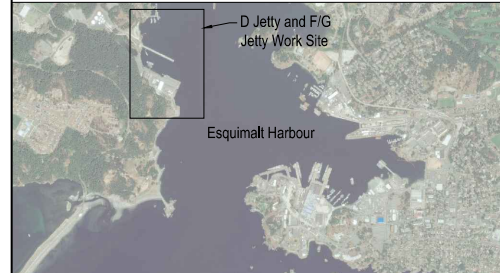


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HORIZONTAL DATUM: UTM ZONE 10N, NAD83.

VERTICAL DATUM: CHART DATUM (CD).

NOTES:

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- 1.1. PLACE STRUCTURAL BACKFILL TYPE A
- 1.2. PLACE UNDERPIER COVER
- 1.3. PLACE RMC

2. ALL BACKFILL MATERIAL TO BE PLACED PRIOR TO REINSTATEMENT OF REMOVED D JETTY NORTH ZONE STRUCTURES.

3. PLACE BACKFILL MATERIAL TO MAINTAIN STABLE SIDE SLOPES. WHEN PLACING BACKFILL MATERIALS ON SLOPES, ALL BACKFILL MATERIAL SHALL BE PLACED FROM THE BOTTOM (TOE) OF SLOPE UPWARD EXCEPT FOR UNDERPIER COVER MATERIAL, AS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS THAT ALLOW FOR THE COMPLETE COVERAGE OF THE DESIGNATED AREA AND MINIMIZES DISTURBANCE TO THE EXISTING DREDGED SEDIMENT SURFACE.

4. CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR RANGE OF TIDAL ELEVATIONS AND JETTY BOTTOM OF DECK ELEVATION ACCESS WHEN PLACING UNDERPIER COVER.

5. CONTRACTOR SHALL PLACE RMC MATERIAL IN AREAS IDENTIFIED BY THE DEPARTMENTAL REPRESENTATIVE BASED ON THE RESULTS OF POST-DREDGE CONFIRMATION TESTING.

NO.	DATE	REVISION	APPR.
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SCALE | ÉCHELLE

AS NOTED

LOCATION | EMPLACEMENT

D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD

PROJECT | PROJET

COLWOOD JETTIES
REMIEDIATION PROJECT

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

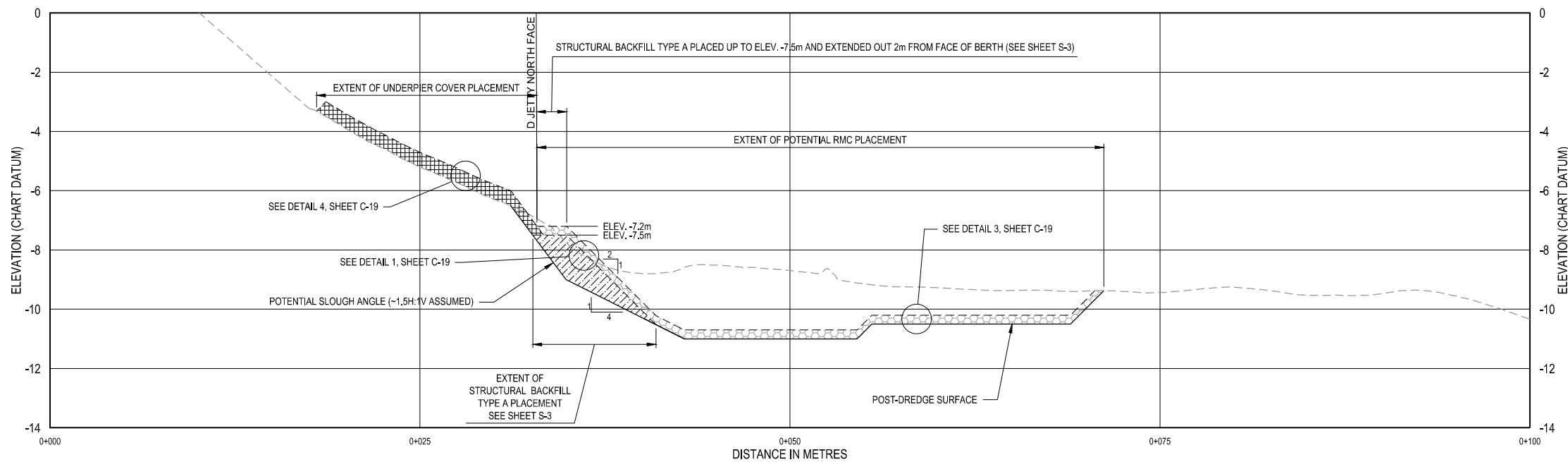
DATE
2016/07/12

SUBJECT | SUJET
BACKFILL CROSS SECTIONS -
D JETTY NORTH ZONE (1 OF 2)

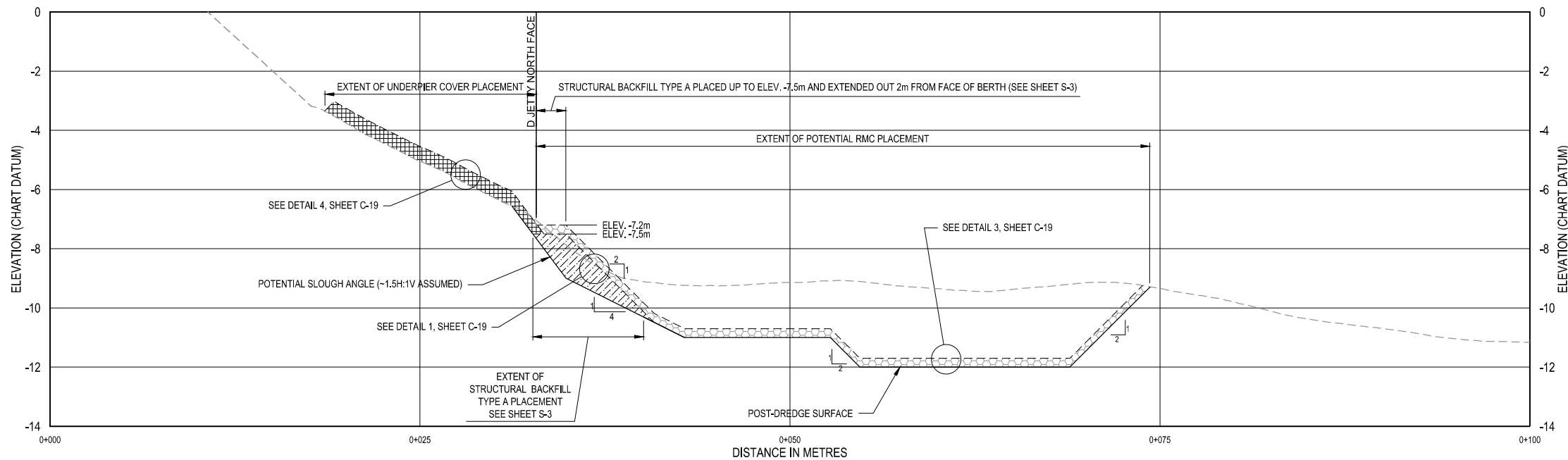
DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	
DRAWN DESSINÉ		PROJ MGR GEST PROJ
C. HEWETT		
CHECKED VÉRIFIÉ		DES MGR GEST CONC
T. WANG		
COORDINATION		FIRE INCENDIE

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PF NO. | NO. DP
R.081525.001/R.081526.001

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C-12



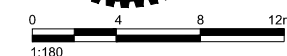
A
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90



B
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

LEGEND:

- EXISTING SEABED ELEVATION
- POST-DREDGE SURFACE
- TOP OF RMC/STRUCTURAL BACKFILL TYPE A/UNDERPIER COVER MATERIAL PLACEMENT
- [Pattern] POTENTIAL RMC PLACEMENT
- [Pattern] STRUCTURAL BACKFILL TYPE A PLACEMENT
- [Pattern] UNDERPIER COVER PLACEMENT

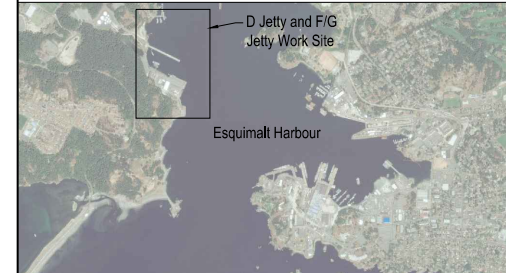


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C-12 chawett

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VERTICAL DATUM: CHART DATUM (CD).

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 - PLACE STRUCTURAL BACKFILL TYPE A
 - PLACE UNDERPIER COVER
 - PLACE RMC
- ALL BACKFILL MATERIAL TO BE PLACED PRIOR TO REINSTATEMENT OF REMOVED D JETTY NORTH ZONE STRUCTURES.
- PLACE BACKFILL MATERIAL TO MAINTAIN STABLE SIDE SLOPES. WHEN PLACING BACKFILL MATERIALS ON SLOPES, ALL BACKFILL MATERIAL SHALL BE PLACED FROM THE BOTTOM (TOE) OF SLOPE UPWARD EXCEPT FOR UNDERPIER COVER MATERIAL, AS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS THAT ALLOW FOR THE COMPLETE COVERAGE OF THE DESIGNATED AREA AND MINIMIZES DISTURBANCE TO THE EXISTING DREDGED SEDIMENT SURFACE.
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0	2016/08/01	ISSUED FOR TENDER	
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SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

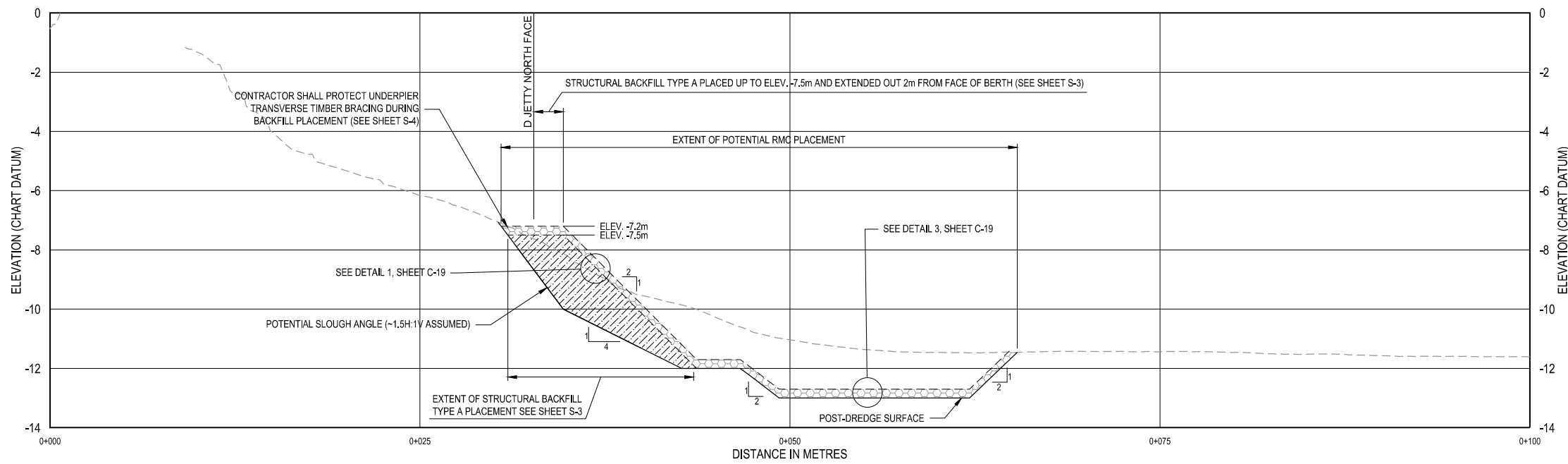
DATE
2016/07/12

SUBJECT | SUJET
**BACKFILL CROSS SECTIONS -
D JETTY NORTH ZONE (2 OF 2)**

DESIGNED ÉTUDIÉ	XX XX	DES O AGENT CONC
R. BARTH	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
R.081525.001/R.081526.001

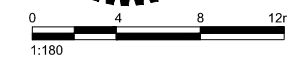
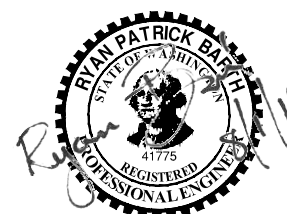
DWG. NO. | NO. DESSIN
C-13



C
C-10
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

LEGEND:

- EXISTING SEABED ELEVATION
- POST-DREDGE SURFACE
- TOP OF RMC/STRUCTURAL BACKFILL TYPE A MATERIAL PLACEMENT
- [Pattern] POTENTIAL RMC PLACEMENT
- [Pattern] STRUCTURAL BACKFILL TYPE A PLACEMENT

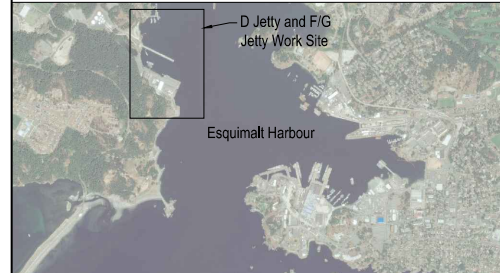


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HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
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NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE

AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDIAION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

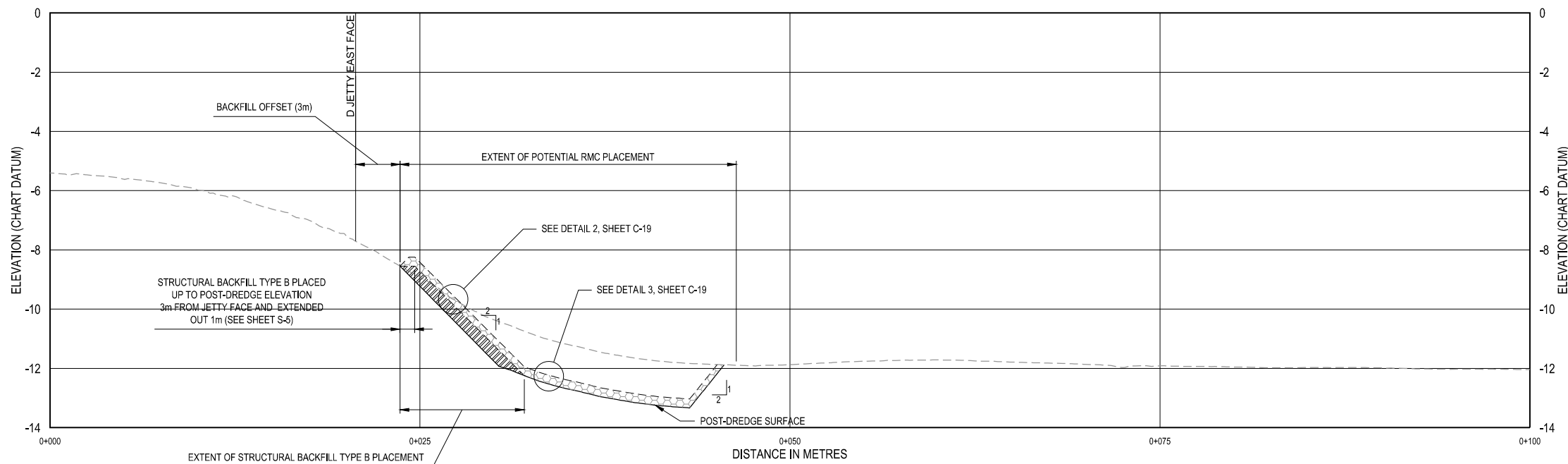
DATE
2016/07/12

SUBJECT | SUJET
**BACKFILL CROSS SECTIONS -
D JETTY EAST ZONE (1 OF 2)**

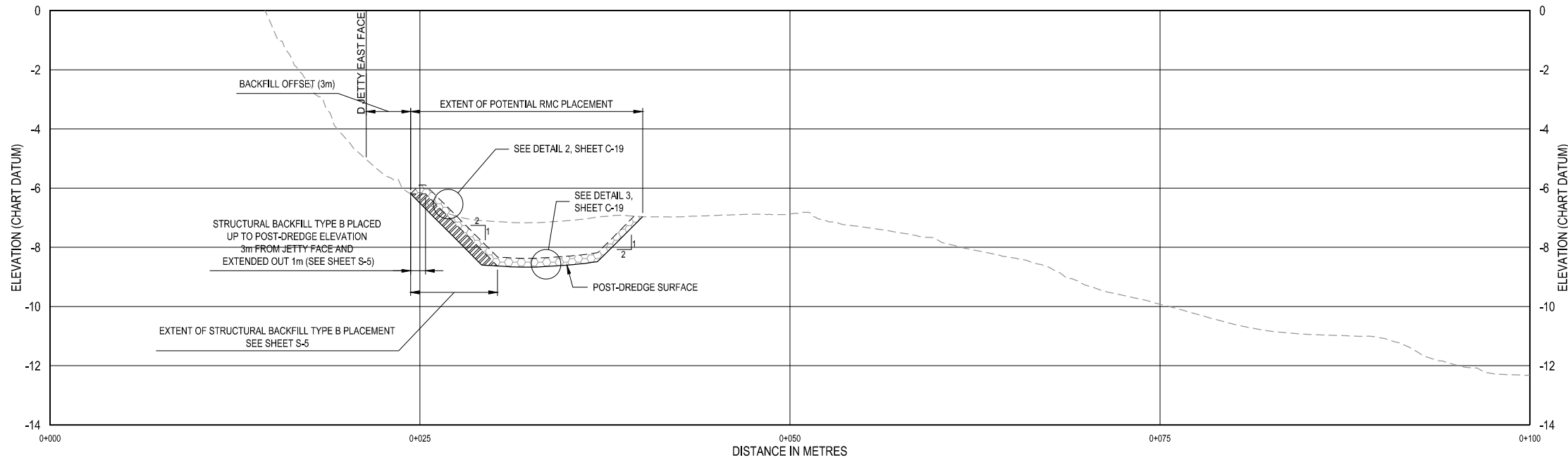
DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	
DRAWN DESSINÉ		PROJ MGR GEST PROJ
C. HEWETT		
CHECKED VÉRIFIÉ		DES MGR GEST CONC
T. WANG		
COORDINATION		FIRE INCENDIE

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-14



D
C-10
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90



E
C-10
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

LEGEND:

- EXISTING SEABED ELEVATION
- POST-DREDGE SURFACE
- TOP OF RMC/STRUCTURAL BACKFILL TYPE B MATERIAL PLACEMENT
- ▨ POTENTIAL RMC PLACEMENT
- ▨ STRUCTURAL BACKFILL TYPE B PLACEMENT

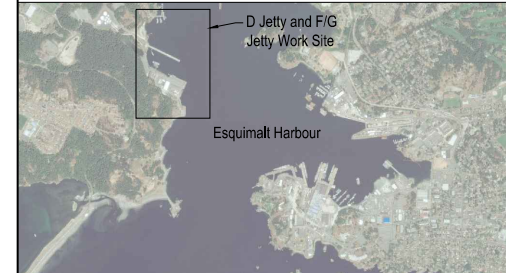


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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
- CONTRACTOR SHALL COMPLETE BACKFILL MATERIAL PLACEMENT ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND SHEET G-3. IN ADDITION, BACKFILL SEQUENCING TO BE AS FOLLOWS UNLESS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
 - PLACE STRUCTURAL BACKFILL TYPE A
 - PLACE UNDERPIER COVER
 - PLACE RMC
 - ALL BACKFILL MATERIAL TO BE PLACED PRIOR TO REINSTATEMENT OF REMOVED D JETTY NORTH ZONE STRUCTURES.
 - PLACE BACKFILL MATERIAL TO MAINTAIN STABLE SIDE SLOPES. WHEN PLACING BACKFILL MATERIALS ON SLOPES, ALL BACKFILL MATERIAL SHALL BE PLACED FROM THE BOTTOM (TOE) OF SLOPE UPWARD EXCEPT FOR UNDERPIER COVER MATERIAL, AS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS THAT ALLOW FOR THE COMPLETE COVERAGE OF THE DESIGNATED AREA AND MINIMIZES DISTURBANCE TO THE EXISTING DREDGED SEDIMENT SURFACE.
 - CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR RANGE OF TIDAL ELEVATIONS AND JETTY BOTTOM OF DECK ELEVATION ACCESS WHEN PLACING UNDERPIER COVER.
 - CONTRACTOR SHALL PLACE RMC MATERIAL IN AREAS IDENTIFIED BY THE DEPARTMENTAL REPRESENTATIVE BASED ON THE RESULTS OF POST-DREDGE CONFIRMATION TESTING.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMIEDIATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

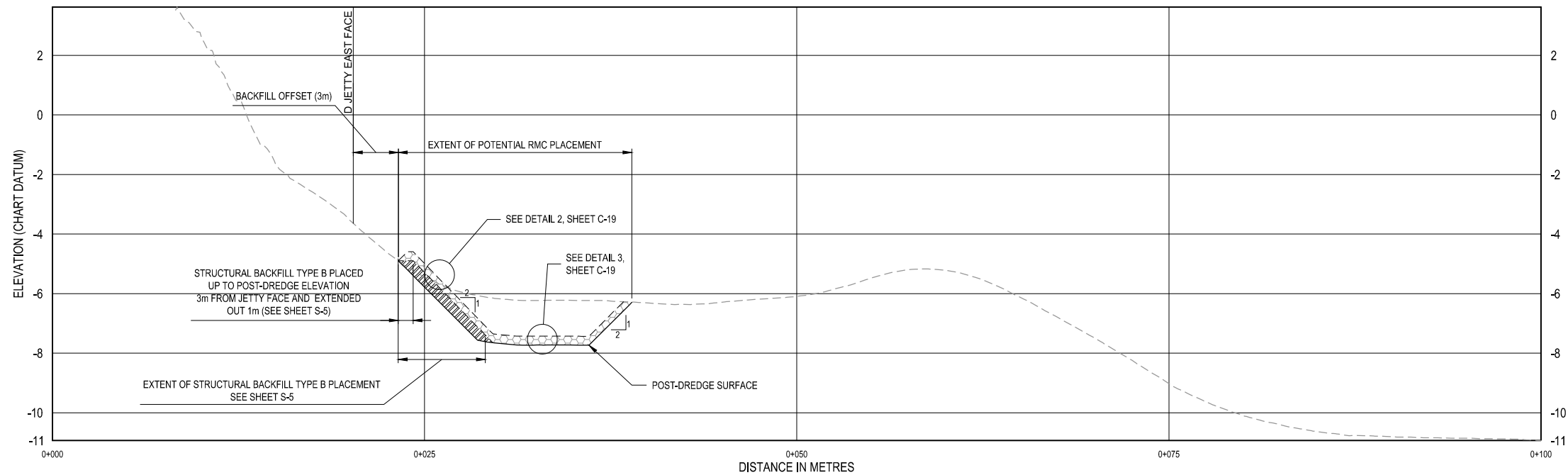
DATE
2016/07/12

SUBJECT | SUJET
**BACKFILL CROSS SECTIONS -
D JETTY EAST ZONE (2 OF 2)**

DESIGNED ÉTUDIÉ	XX XX	DES O AGENT CONC
R. BARTH	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
R.081525.001/R.081526.001

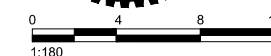
DWG. NO. | NO. DESSIN
C-15



F
C-10
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

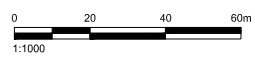
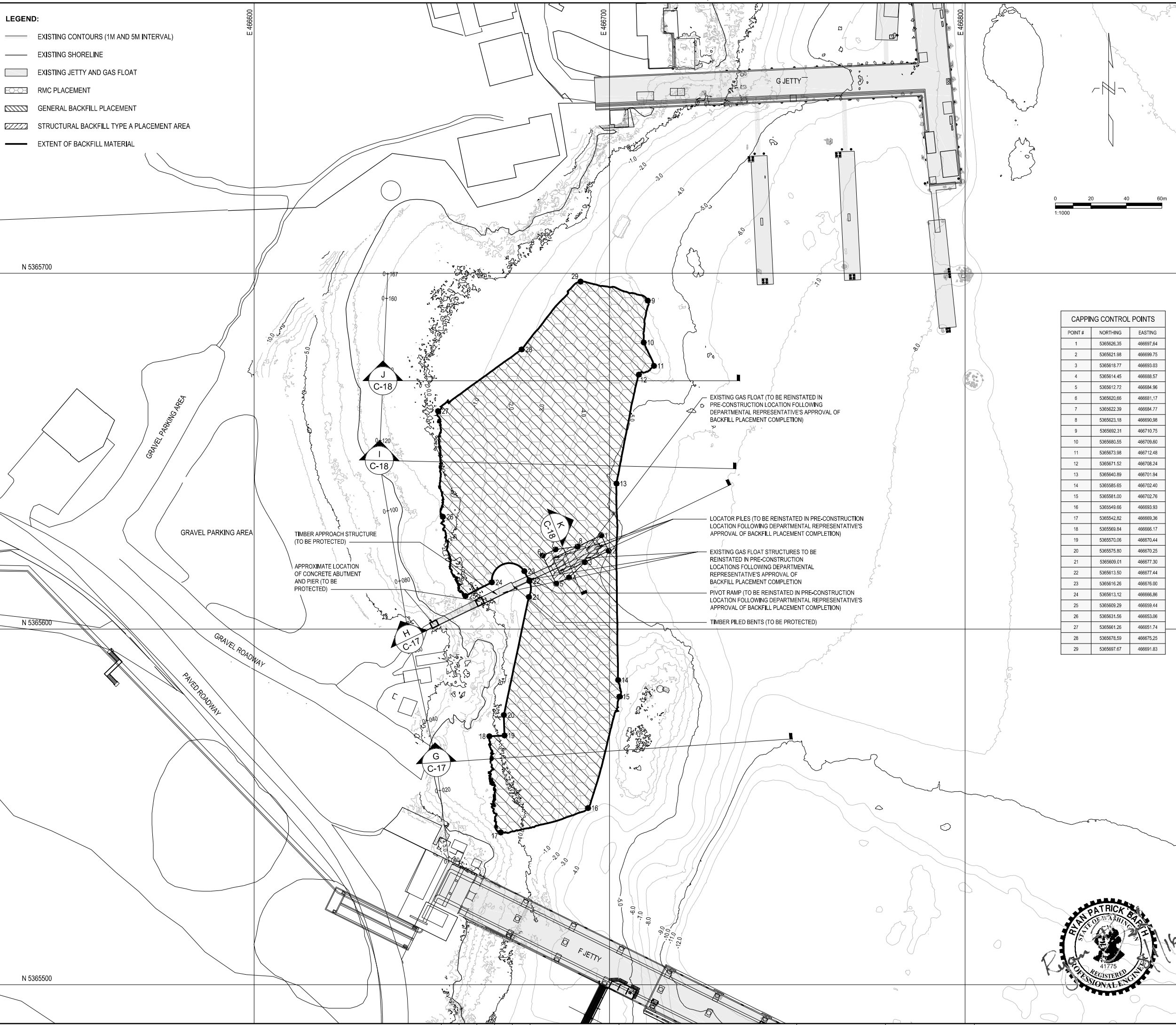
LEGEND:

- EXISTING SEABED ELEVATION
- POST-DREDGE SURFACE
- TOP OF RMC/STRUCTURAL BACKFILL TYPE B MATERIAL PLACEMENT
- POTENTIAL RMC PLACEMENT
- STRUCTURAL BACKFILL TYPE B PLACEMENT



BORDER LAST UPDATED 2012-04-01
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C-15 chewett

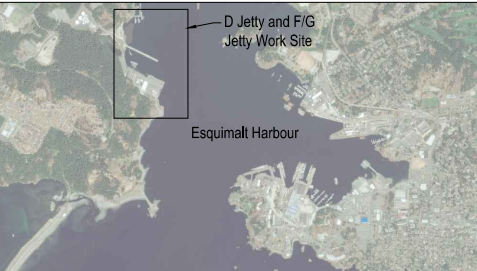
- LEGEND:**
- EXISTING CONTOURS (1M AND 5M INTERVAL)
 - EXISTING SHORELINE
 - EXISTING JETTY AND GAS FLOAT
 - ▨ RMC PLACEMENT
 - ▨ GENERAL BACKFILL PLACEMENT
 - ▨ STRUCTURAL BACKFILL TYPE A PLACEMENT AREA
 - EXTENT OF BACKFILL MATERIAL



CAPPING CONTROL POINTS		
POINT #	NORTHING	EASTING
1	5365626.35	466697.64
2	5365621.98	466696.75
3	5365618.77	466693.03
4	5365614.45	466688.57
5	5365612.72	466684.96
6	5365620.66	466681.17
7	5365622.39	466684.77
8	5365623.18	466680.98
9	5365692.31	466710.75
10	5365680.55	466709.60
11	5365673.98	466712.48
12	5365671.52	466708.24
13	5365640.89	466701.94
14	5365585.65	466702.40
15	5365581.00	466702.78
16	5365549.66	466693.93
17	5365542.82	466689.38
18	5365569.84	466686.17
19	5365570.06	466670.44
20	5365575.80	466670.25
21	5365609.01	466677.30
22	5365613.50	466677.44
23	5365616.26	466676.00
24	5365613.12	466666.86
25	5365609.29	466659.44
26	5365631.56	466653.06
27	5365661.26	466651.74
28	5365678.59	466675.25
29	5365697.67	466691.83

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

- NOTES:
- CONTRACTOR SHALL COMPLETE BACKFILL MATERIAL PLACEMENT ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND SHEET G-3.
 - WHEN PLACING BACKFILL MATERIALS ON SLOPES, ALL BACKFILL MATERIAL SHALL BE PLACED IN LIFTS THAT ALLOW FOR THE COMPLETE COVERAGE OF THE DESIGNATED AREA AND MINIMIZE DISTURBANCE TO THE EXISTING DREDGED SEDIMENT SURFACE.
 - CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR SHALLOW WATER DEPTHS UNDER RANGE OF TIDAL ELEVATIONS.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
1:1000

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMIEDIATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/07/12

SUBJECT | SUJET
**REQUIRED BACKFILL PLAN -
F/G JETTY**

DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	
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
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-16

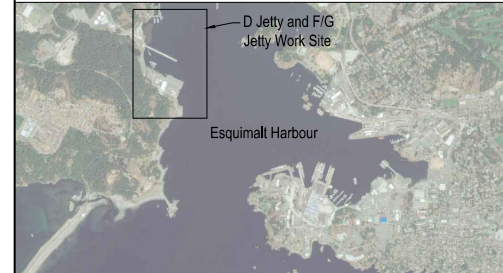


BORDER LAST UPDATED 2012-04-01
2016/Aug/01, 3:37pm
Sheet 23 of 39
K:\Projects\0553-Public Works and Government Services Canada\EHPR Definition Phase\D-F-G Combined\Construction Plans\F-G Jetty\0553-PL-C_SERIES (BACKFILL).dwg

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83. VERTICAL DATUM: CHART DATUM (CD).

- NOTES:
- GENERAL BACKFILL AND STRUCTURAL BACKFILL TYPE A TARGETED PLACEMENT ELEVATION TO APPROXIMATELY 40.3m BELOW THE PRE-CONSTRUCTION ELEVATION WITH A 40.15m PAYABLE VERTICAL PLACEMENT TOLERANCE. PLACEMENT GREATER THAN THE +0.15m VERTICAL PLACEMENT TOLERANCE WILL BE CONSIDERED EXCESSIVE OVERPLACEMENT. THE DEPARTMENTAL REPRESENTATIVE MAY DIRECT THE CONTRACTOR TO REMOVE EXCESSIVE OVERPLACEMENT AT NO ADDITIONAL COST. CONTRACTOR SHALL COMPLETE BACKFILL MATERIAL PLACEMENT ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND SHEET G-3. IN ADDITION, BACKFILL SEQUENCING TO BE AS FOLLOWS:
 - PLACE STRUCTURAL BACKFILL TYPE A IN GAS FLOAT AREA AND PLACE GENERAL BACKFILL (WHERE APPLICABLE)
 - PLACE RMC
 - ALL BACKFILL MATERIAL TO BE PLACED PRIOR TO REINSTATEMENT OF THE REMOVED F/G JETTY ZONE STRUCTURES WITH THE EXCEPTION OF RMC AS APPROVED IN WRITING BY THE DEPARTMENTAL REPRESENTATIVE.
 - WHEN PLACING BACKFILL MATERIALS ON SLOPES, ALL BACKFILL MATERIAL SHALL BE PLACED FROM THE BOTTOM (TOE) OF SLOPE UPWARD. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS THAT ALLOW FOR THE COMPLETE COVERAGE OF THE DESIGNATED AREA AND MINIMIZES DISTURBANCE TO THE EXISTING DREDGED SEDIMENT SURFACE.
 - CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR SHALLOW WATER DEPTHS UNDER RANGE OF TIDAL ELEVATIONS.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD

PROJECT | PROJET
COLWOOD JETTIES
REMEDATION PROJECT

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/07/12

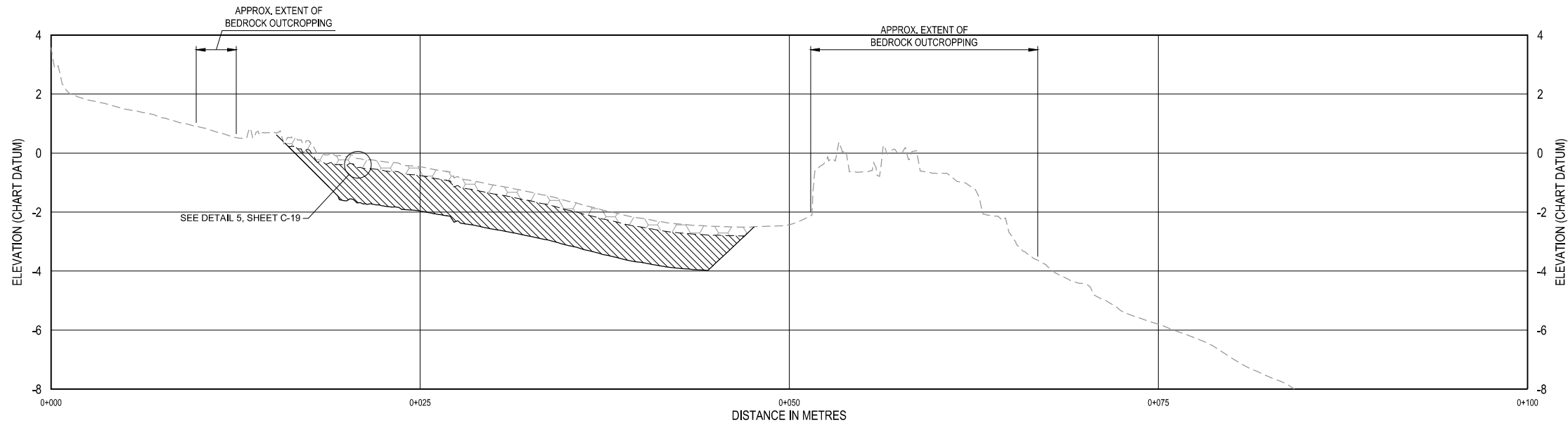
SUBJECT | SUJET
BACKFILL CROSS SECTIONS
- F/G JETTY ZONE (1 OF 2)

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

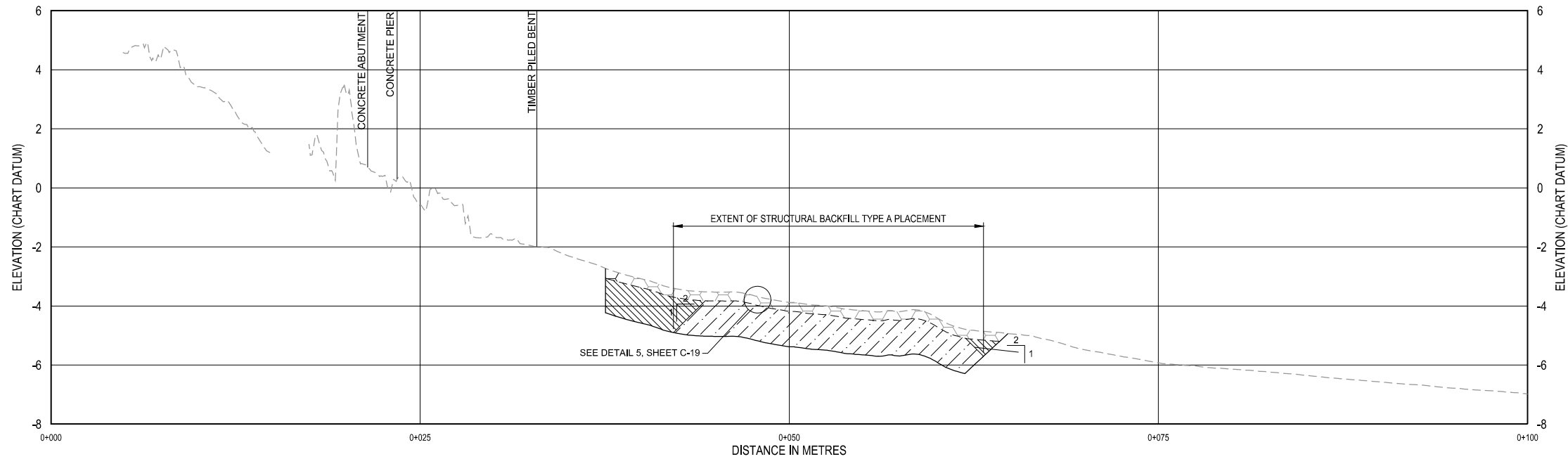
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PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-17

Canada

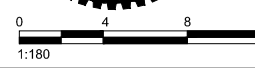


G TYPICAL PROFILE
C-15 SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90



H TYPICAL PROFILE
C-15 SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

- LEGEND:
- PRE-CONSTRUCTION GRADE AND TOP OF RMC PLACEMENT
 - POST-DREDGE SURFACE
 - TOP OF GENERAL/STRUCTURAL BACKFILL TYPE A MATERIAL PLACEMENT
 - STRUCTURAL BACKFILL TYPE A PLACEMENT
 - GENERAL BACKFILL PLACEMENT
 - RMC PLACEMENT

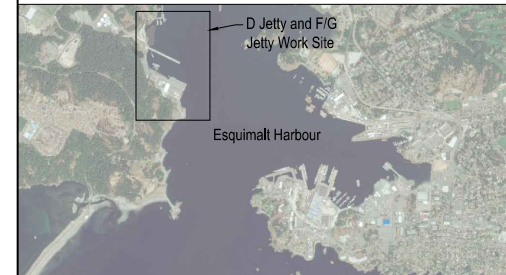


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K:\Projects\0563-Public Works and Government Services Canada\EHPP Definition Phase\D-F-G Combined\Construction Plans\F-G Series (BACKFILL).dwg
C-17 chewart

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).

- NOTES:
- GENERAL BACKFILL AND STRUCTURAL BACKFILL TYPE A TARGETED PLACEMENT ELEVATION TO APPROXIMATELY 40.3m BELOW THE PRE-CONSTRUCTION ELEVATION WITH A ±0.15m PAYABLE VERTICAL PLACEMENT TOLERANCE. PLACEMENT GREATER THAN THE +0.15m VERTICAL PLACEMENT TOLERANCE WILL BE CONSIDERED EXCESSIVE OVERPLACEMENT. THE DEPARTMENTAL REPRESENTATIVE MAY DIRECT THE CONTRACTOR TO REMOVE EXCESSIVE OVERPLACEMENT AT NO ADDITIONAL COST. CONTRACTOR SHALL COMPLETE BACKFILL MATERIAL PLACEMENT ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS DESCRIBED IN SPECIFICATIONS AND SHEET G-3. IN ADDITION, BACKFILL SEQUENCING TO BE AS FOLLOWS:
 - PLACE STRUCTURAL BACKFILL TYPE A IN GAS FLOAT AREA AND PLACE GENERAL BACKFILL (WHERE APPLICABLE)
 - PLACE RMC
 - ALL BACKFILL MATERIAL TO BE PLACED PRIOR TO REINSTATEMENT OF THE REMOVED F/G JETTY ZONE STRUCTURES WITH THE EXCEPTION OF RMC AS APPROVED IN WRITING BY THE DEPARTMENTAL REPRESENTATIVE.
 - WHEN PLACING BACKFILL MATERIALS ON SLOPES, ALL BACKFILL MATERIAL SHALL BE PLACED FROM THE BOTTOM (TOE) OF SLOPE UPWARD. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS THAT ALLOW FOR THE COMPLETE COVERAGE OF THE DESIGNATED AREA AND MINIMIZES DISTURBANCE TO THE EXISTING DREDGED SEDIMENT SURFACE.
 - CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR SHALLOW WATER DEPTHS UNDER RANGE OF TIDAL ELEVATIONS.

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMIEDIATION PROJECT**

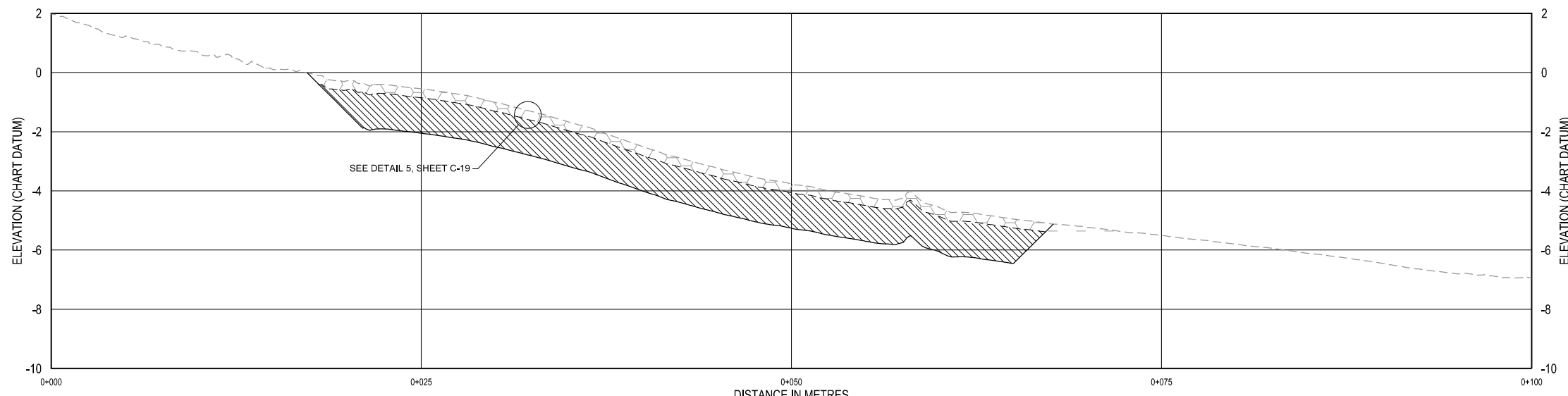
TRADE | MÉTIER
CIVIL/ENVIRONMENTAL DATE
2016/07/12

SUBJECT | SUJET
**BACKFILL CROSS SECTIONS
- F/G JETTY ZONE (2 OF 2)**

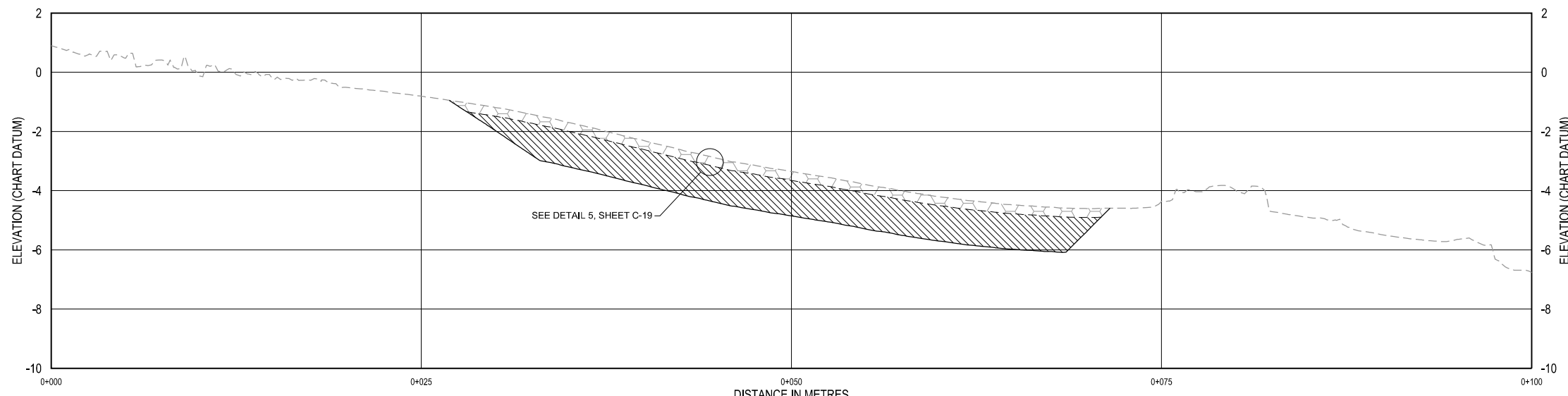
DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
R. BARTH	XX XX	
DRAWN DESSINÉ		PROJ MGR GEST PROJ
C. HEWETT		
CHECKED VÉRIFIÉ		DES MGR GEST CONC
T. WANG		
COORDINATION		FIRE INCENDIE

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

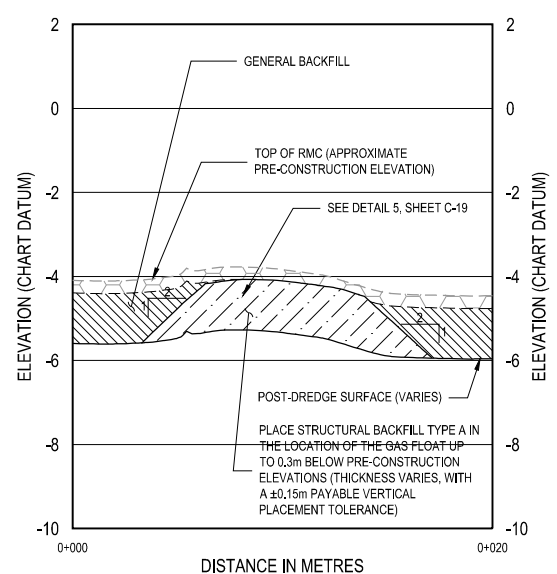
DWG. NO. | NO. DESSIN
C-18



I
C-15
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

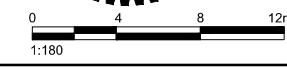
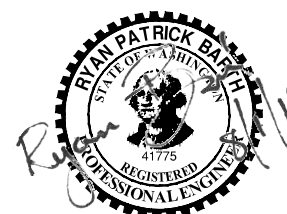


J
C-15
TYPICAL PROFILE
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90



K
C-15
STRUCTURAL BACKFILL IN THE GAS FLOAT AREA
SCALE HORIZONTAL: 1:180
SCALE VERTICAL: 1:90

- LEGEND:**
- PRE-CONSTRUCTION GRADE AND TOP OF RMC PLACEMENT
 - POST-DREDGE SURFACE
 - TOP OF GENERAL/STRUCTURAL BACKFILL TYPE A MATERIAL PLACEMENT
 - ▨ STRUCTURAL BACKFILL TYPE A PLACEMENT
 - ▨ GENERAL BACKFILL PLACEMENT
 - ▨ RMC PLACEMENT

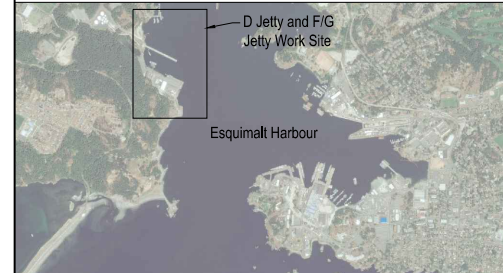


BORDER LAST UPDATED 2012-04-01
K:\Projects\0563-Public Works and Government Services Canada\EHPP Definition Phase\D-F-G Combined\Construction Plans\F-G Series\BACKFILL.dwg
C-18 chawett

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

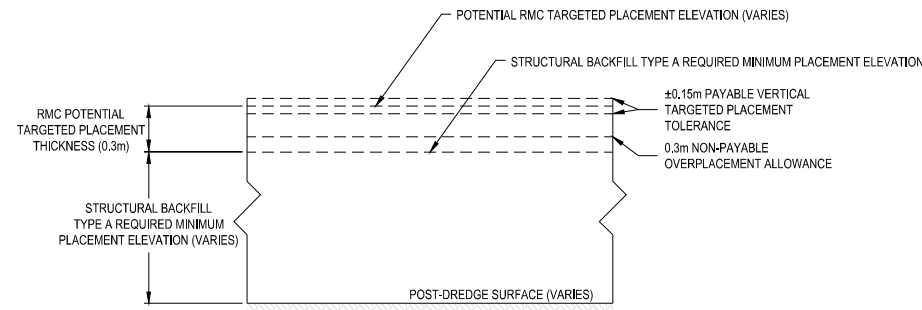
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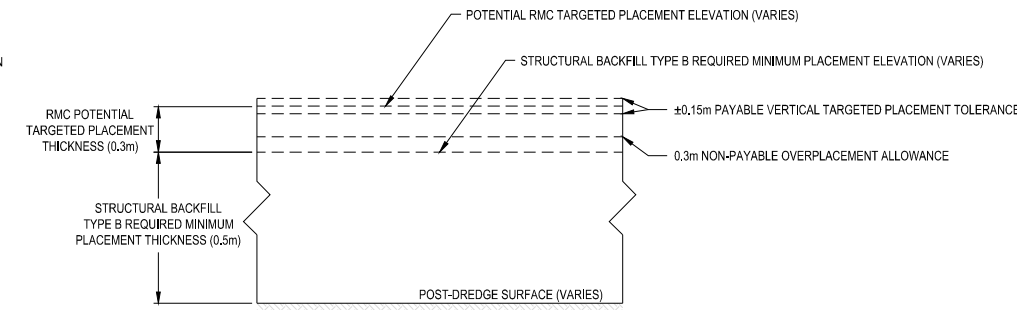


SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83.
VERTICAL DATUM: CHART DATUM (CD).

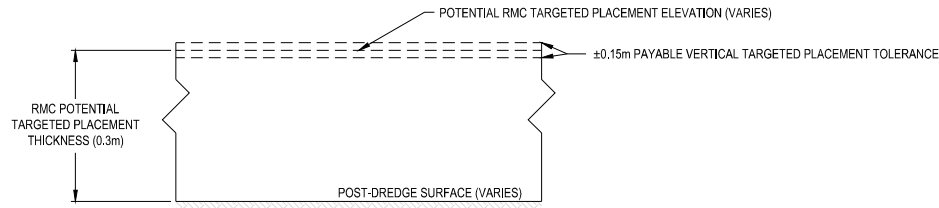
- NOTES:
- GENERAL BACKFILL AND STRUCTURAL BACKFILL TYPE A TARGETED PLACEMENT ELEVATION TO APPROXIMATELY ±0.3m BELOW THE PRE-CONSTRUCTION ELEVATION WITH A ±0.15m PAYABLE VERTICAL PLACEMENT TOLERANCE. PLACEMENT GREATER THAN THE ±0.15m VERTICAL PLACEMENT TOLERANCE WILL BE CONSIDERED EXCESSIVE OVERPLACEMENT. THE DEPARTMENTAL REPRESENTATIVE MAY DIRECT THE CONTRACTOR TO REMOVE EXCESSIVE OVERPLACEMENT AT NO ADDITIONAL COST.
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 - PLACE STRUCTURAL BACKFILL
 - PLACE GENERAL BACKFILL (WHERE APPLICABLE)
 - PLACE UNDERPIER COVER (WHERE APPLICABLE)
 - PLACE RMC
 - ALL BACKFILL MATERIAL TO BE PLACED PRIOR TO REINSTATEMENT OF THE REMOVED FIG JETTY ZONE STRUCTURES WITH THE EXCEPTION OF RMC AS APPROVED IN WRITING BY THE DEPARTMENTAL REPRESENTATIVE.
 - WHEN PLACING BACKFILL MATERIALS ON SLOPES, ALL BACKFILL MATERIAL SHALL BE PLACED FROM THE BOTTOM (TOE) OF SLOPE UPWARD. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS THAT ALLOW FOR THE COMPLETE COVERAGE OF THE DESIGNATED AREA AND MINIMIZES DISTURBANCE TO THE EXISTING DREDGED SEDIMENT SURFACE. CONTRACTOR MEANS AND METHODS TO ACCOUNT FOR SHALLOW WATER DEPTHS UNDER RANGE OF TIDAL ELEVATIONS.



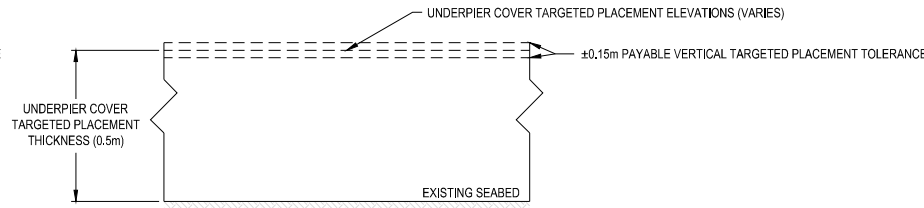
1 STRUCTURAL BACKFILL TYPE A PLACEMENT (D JETTY NORTH ZONE)
SCALE: NTS



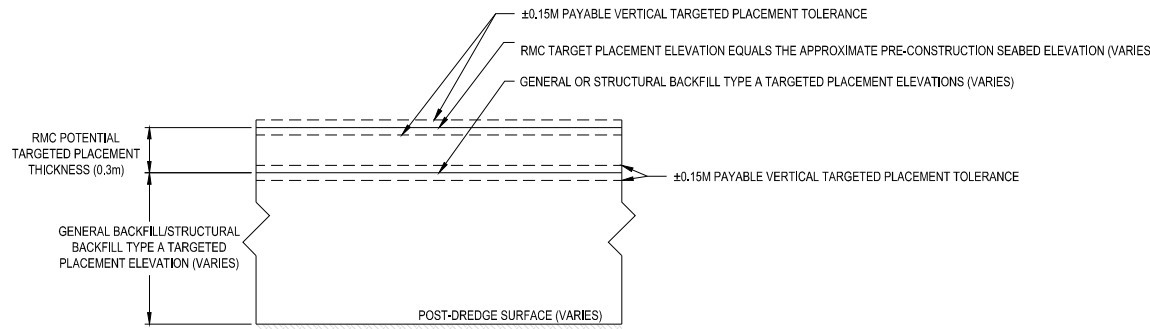
2 STRUCTURAL BACKFILL TYPE B PLACEMENT (D JETTY EAST ZONE)
SCALE: NTS



3 RMC PLACEMENT (D JETTY NORTH ZONE AND D JETTY EAST ZONE)
SCALE: NTS



4 UNDERPIER COVER PLACEMENT (D JETTY NORTH ZONE)
SCALE: NTS



5 BACKFILL DETAILS (F/G JETTY ZONE)
SCALE: NTS

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD

PROJECT | PROJET
COLWOOD JETTIES
REMEDATION PROJECT

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL
DATE
2016/07/12

SUBJECT | SUJET
BACKFILL DETAILS

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

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO. | NO. DESSIN
C-19

Canada



BORDER LAST UPDATED 2012-04-01
K:\Projects\0563-Public Works and Government Services Canada\EHPP Definition Phase\D-F-G Combined\Construction Plans\0563-PL-C_SERIES (BACKFILL).dwg
C-19 chewett

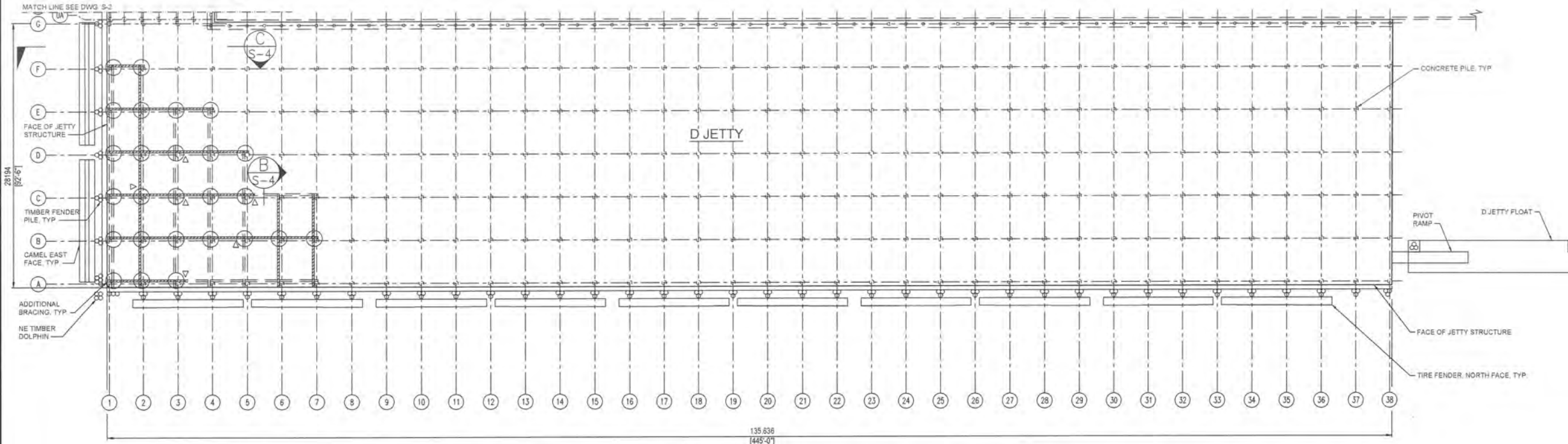
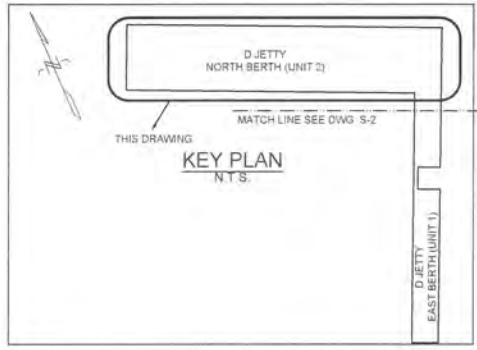
LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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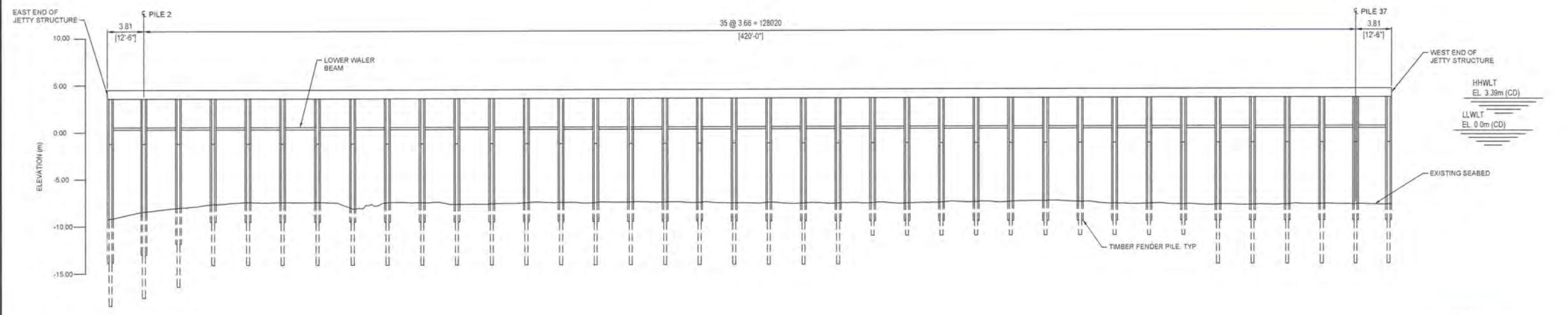


SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015
HORIZONTAL DATUM: UTM ZONE 10N, NAD83
VERTICAL DATUM: CHART DATUM (CD)
NOTES:
1. CHART DATUM (CD) IS 1.89m BELOW CANADIAN GEODETIC DATUM (GD)
2. PRIMARY DIMENSIONS SHOWN IN mm, ORIGINAL IMPERIAL DIMENSIONS SHOWN IN PARENTHESES, E.G. 3048 (10'-0")
3. REFERENCE DRAWINGS:
2007 SANDWELL REPAIR DRAWINGS
1955 CONSTRUCTION DRAWINGS
1993 STRUCTURAL REPAIR DRAWINGS
4. SPACING SHOWN FOR CONCRETE PILES, U.N.O.
5. FOR MAXIMUM ALLOWABLE LIVE LOAD ON D JETTY DECK, SEE REFERENCE DRAWING 99145-00-003 (AUGUST 2010-DND)

NORTH BERTH - DECK LOAD CAPACITY			
VEHICLE LOADING		UNIFORMLY DISTRIBUTED LOADS	
SINGLE AXLE LOAD (kg)	GWW (kg)	kg/sq-m	lbs/sq-ft
8000	20000	2000	400



PLAN - NORTH BERTH (UNIT 2)
SCALE: 1:250



ELEVATION - NORTH BERTH (UNIT 2)
SCALE: 1:250



0	20160801	ISSUED FOR TENDER	
NO	DATE	REVISION	APPR.

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/05/16

SUBJECT | SUJET
**EXISTING ARRANGEMENT
SHEET 1 OF 2
D JETTY**

DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
J.O.	xx xx	PROJ MGR GEST PROJ
DRAWN DESSINÉ		DES MGR GEST CONC
M.B.		
CHECKED VÉRIFIÉ		FIRE INCENDIE

WBS NO | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG NO | NO. DESSIN
S-1



2016/Jun/26, 6:10pm klohnra G-1 \\n\klohn.com\ProjData\PVCR\0824\01 AQ-DND Esq Harbour Env Remed\400 Drawings\2016001 - Drawings\0 Jetty\S-1 - S-8.dwg BORDER LAST UPDATED 2016-04-01

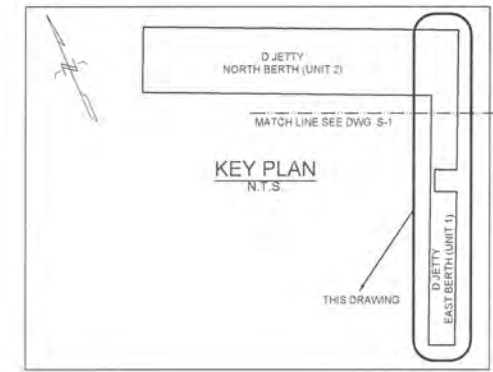
LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
TO BE REVIEWED | À ÊTRE REVISER

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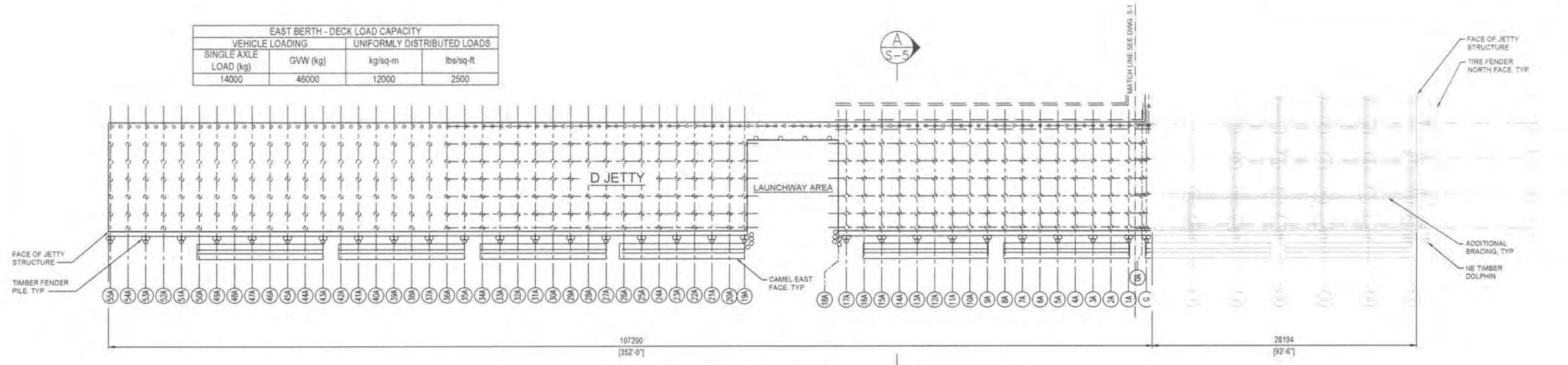
Cette conception est un instrument de service protégé par le droit d'auteur. Le droit d'auteur sur l'instrument de service de l'expert-conseil appartient à ce dernier. Les exemplaires de ce dessin, y compris les exemplaires électroniques, ne peuvent servir qu'aux fins prévues, et ce, qu'une fois, sur le même chantier et pour le même projet. Ils ne peuvent être offerts en vente ni transférés sans le consentement écrit exprès de l'expert-conseil.



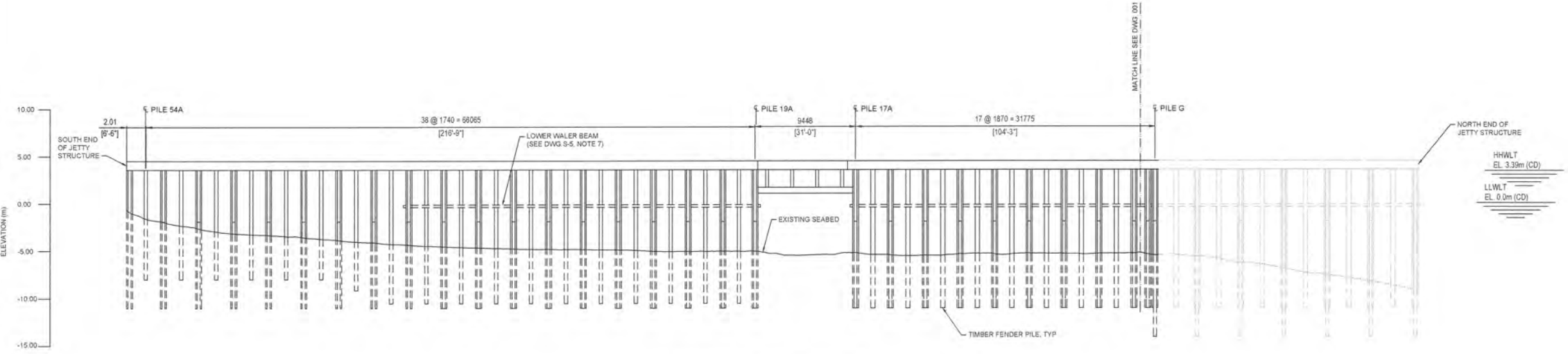
SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015
HORIZONTAL DATUM: UTM ZONE 10N, NAD83
VERTICAL DATUM: CHART DATUM (CD)
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3 REFERENCE DRAWINGS:
2007 SANDWELL REPAIR DRAWINGS
1985 CONSTRUCTION DRAWINGS
1983 STRUCTURAL REPAIR DRAWINGS
4 SPACING SHOWN FOR CONCRETE PILES, U.N.O.
5 FOR MAXIMUM ALLOWABLE LIVE LOAD ON D JETTY DECK, SEE REFERENCE DRAWING 99145-00-003 (AUGUST 2010 DND)



EAST BERTH - DECK LOAD CAPACITY			
VEHICLE LOADING		UNIFORMLY DISTRIBUTED LOADS	
SINGLE AXLE LOAD (kg)	GVW (kg)	kg/sq-m	lbs/sq-ft
14000	48000	12000	2500



PLAN - EAST BERTH (UNIT 1)
SCALE: 1:250



ELEVATION - EAST BERTH (UNIT 1)
SCALE: 1:250



0	20160801	ISSUED FOR TENDER	
NO	DATE	REVISION	APPR.

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/05/16

SUBJECT | SUJET
**EXISTING ARRANGEMENT
SHEET 2 OF 2
D JETTY**

DESIGNED ÉTUDE	REVIEWED REVU	DES O AGENT CONC
J.O.	XX XX	
DRAWN DESSINÉ		PROJ MGR GEST PROJ
M.B.		
CHECKED VÉRIFIÉ		DES MGR GEST CONC

COORDINATION		FIRE INCENDIE

WBS NO. | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG NO. | NO. DESSIN
S-2



BORDER LAST UPDATED 2015-04-01
2016/05/26 6:10pm kkhaira G-1 \\net.klohn.com\ProjData\PC\PC\992401 AQ-DND Esq Harbour Env Remed\400 Drawings\2016001 - Drawings\D JettyS-1 - S-6.dwg

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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VERTICAL DATUM: CHART DATUM (CD)

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1993 STRUCTURAL REPAIR DRAWINGS
 4. SPACING SHOWN FOR CONCRETE PILES, U.N.O.
 5. TOP OF DECK ELEVATION TO BE CONFIRMED IN THE FIELD (INCONSISTENCIES NOTED IN REPAIR DRAWINGS VS. ORIGINAL CONSTRUCTION DRAWINGS)
 6. REFER TO DREDGING DRAWINGS FOR DREDGE GRADES, LIMITS AND TOLERANCES.

0	20160801	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDICATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/05/16

SUBJECT | SUJET
**NORTH BERTH - SECTION
D JETTY**

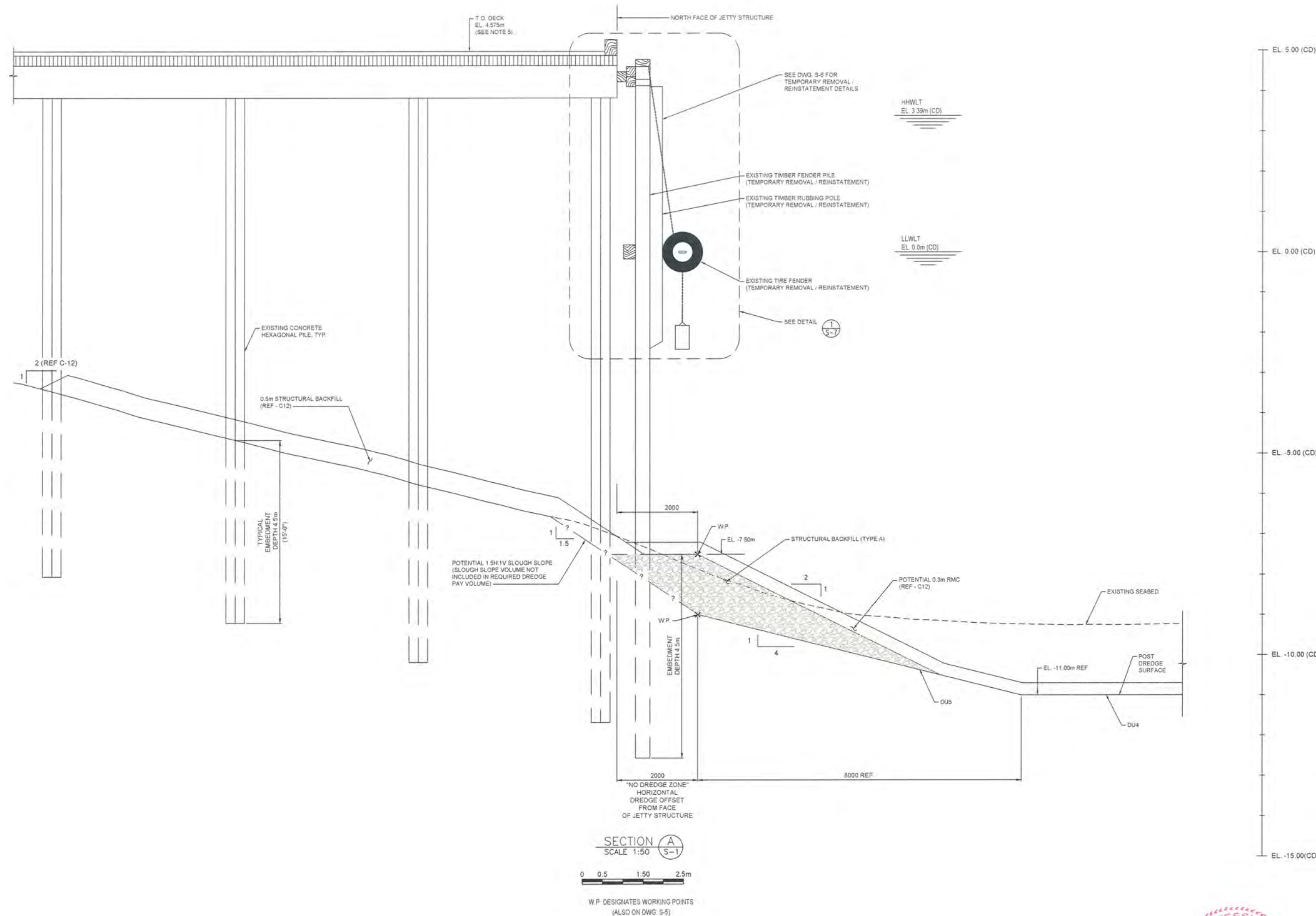
DESIGNED ÉTUDIÉ	xx xx	DES O AGENT CONC
J.O.		PROJ MGR GEST PROJ
DRAWN DESSINÉ		DES MGR GEST CONC
M.B.		FIRE INCENDIE
CHECKED VÉRIFIÉ		
COORDINATION		

WBS NO | NO. OTP
R.081525.001/R.081526.001

PF NO. | NO. DP
R.081525.001/R.081526.001

DWG. NO | NO. DESSIN
S-3

Canada



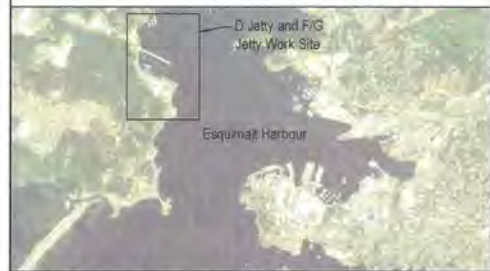
G. B. A. Cooper
Aug 11/16



2016/05/26, 8:10pm kchaitira G-1 \\net.klohn.com\ProjData\P\CR\0824\01 AQ-DND Esq Harbour Env Remed\400 Drawings\2016001 - Drawings\D Jetty\S-1 - S-3.dwg

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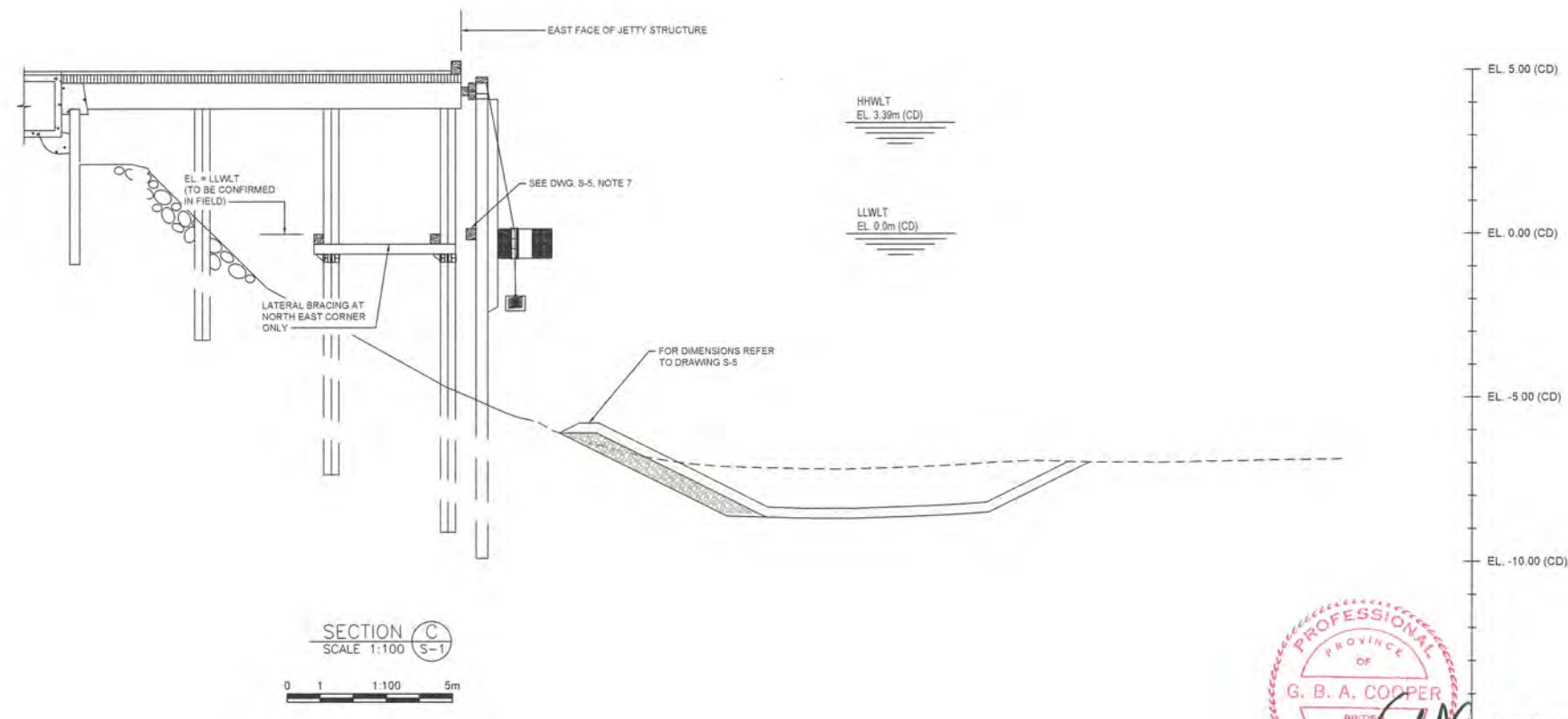
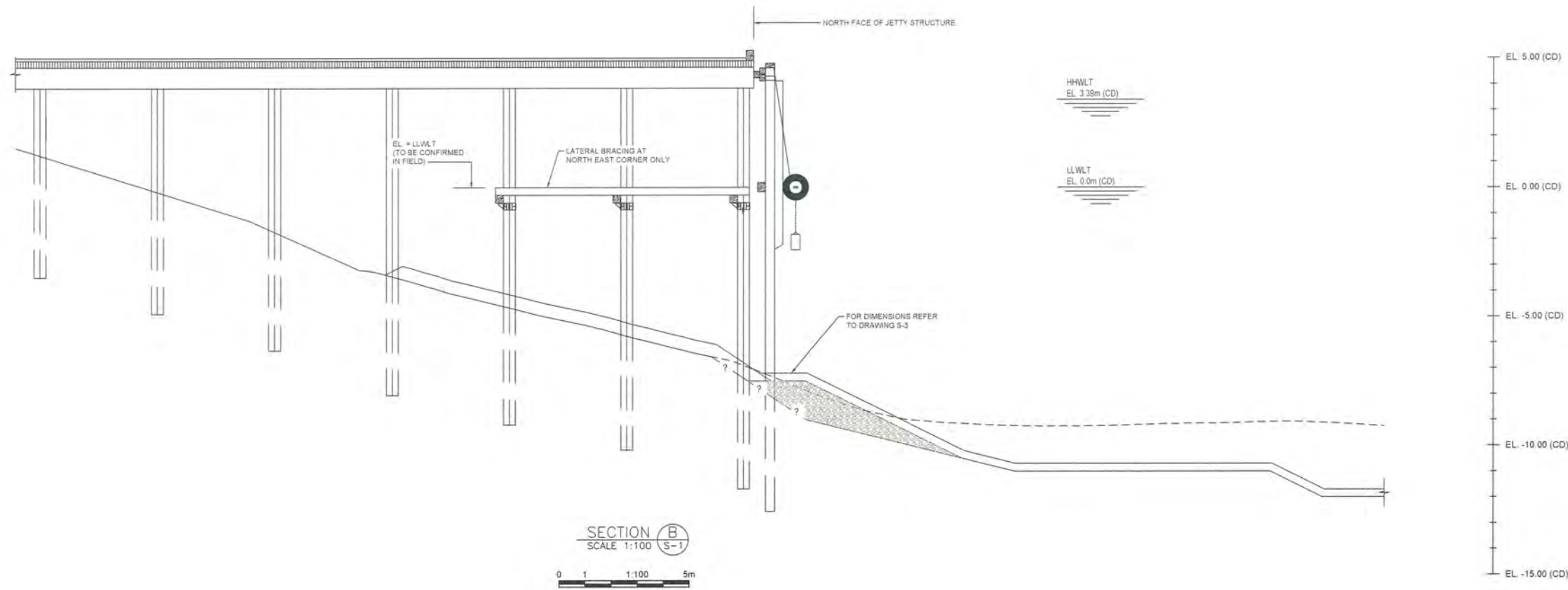
SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015

HORIZONTAL DATUM: UTM ZONE 10N, NAD83

VERTICAL DATUM: CHART DATUM (CD)

NOTES

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1983 STRUCTURAL REPAIR DRAWINGS
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0	2016/08/01	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR

SCALE | ÉCHELLE

AS NOTED

LOCATION | EMPLACEMENT

**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET

**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/05/16

SUBJECT | SUJET

**NORTH / EAST BERTH - SECTIONS
D JETTY**

PRODUCTION	DESIGNED ÉTUDIÉ	REVIEWED REVU	DES O AGENT CONC
J.O.	J.O.	XX XX	
DRAWN DESSINÉ	CHECKED VÉRIFIÉ	COORDINATION	PROJ MGR GEST PROJ
M.B.			
			DES MGR GEST CONC
			FIRE INCENDIE

WBS NO | NO. OTP
R.081525.001/R.081526.001

DWG NO | NO. DESSIN
S-4

PROFESSIONAL ENGINEER
G. B. A. COOPER
BRITISH COLUMBIA
Aug 11/16

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1955 CONSTRUCTION DRAWINGS
1983 STRUCTURAL REPAIR DRAWINGS
- SPACING SHOWN FOR CONCRETE PILES, U.H.O.
- TOP OF DECK ELEVATION TO BE CONFIRMED IN THE FIELD. (INCONSISTENCIES NOTED IN REPAIR DRAWINGS VS. ORIGINAL CONSTRUCTION DRAWINGS).
- REFER TO DREDGING DRAWINGS FOR DREDGE GRADES, LIMITS AND TOLERANCES.
- THE LOWER WALER BEAM AT THE EAST BERTH, SHOWN ON ORIGINAL DESIGN DRAWINGS, WAS NOTED AS MISSING DURING A FENDER SYSTEM CONDITION ASSESSMENT IN JUNE 2016 (KCB).

NO.	DATE	REVISION	APPR.
0	2016/08/01	ISSUED FOR TENDER	

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/05/16

SUBJECT | SUJET
**EAST BERTH - SECTION
D JETTY**

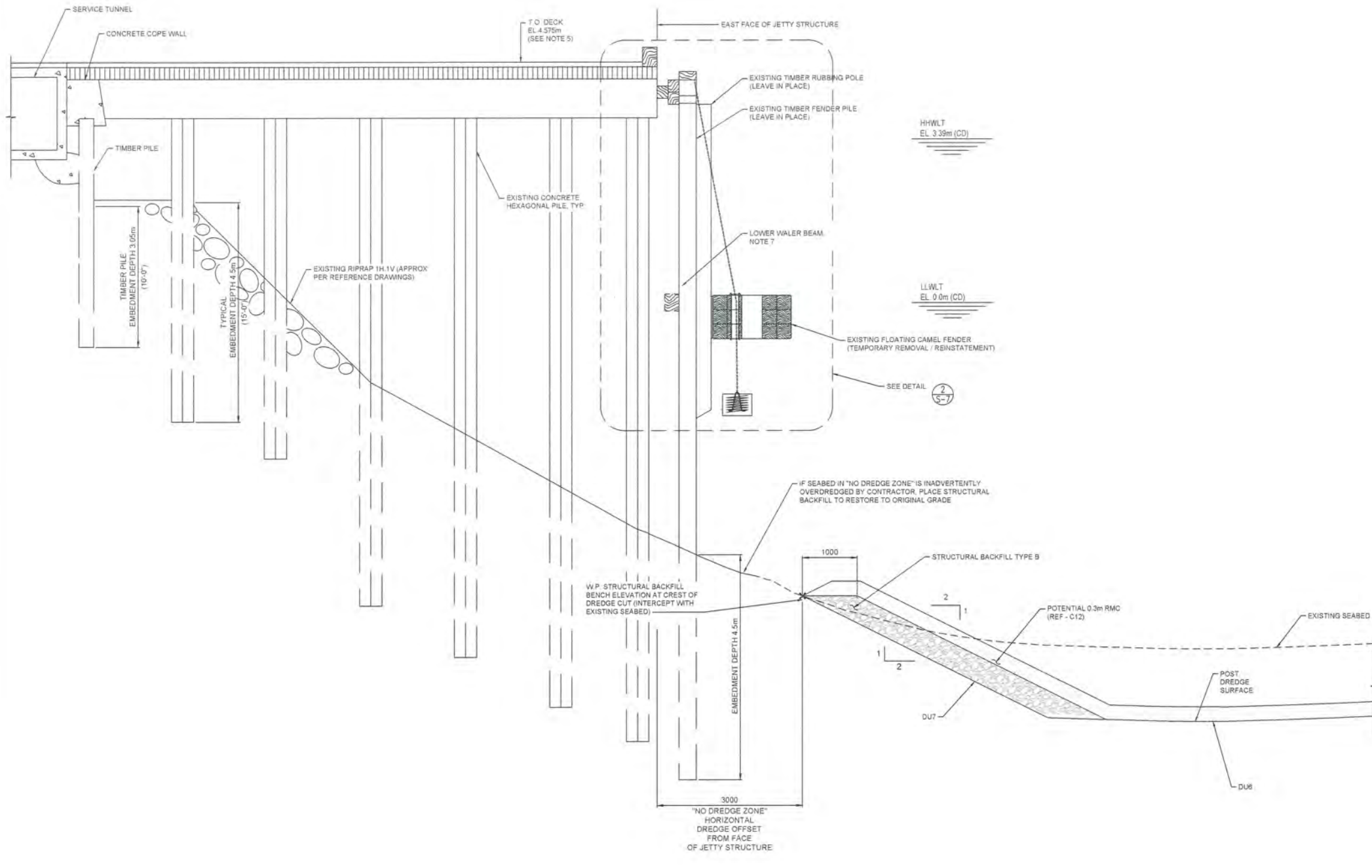
DESIGNED ÉTUDIÉ	XX XX	DES O AGENT CONC
J.O.		
DRAWN DESSINÉ		PROJ MGR GEST PROJ
M.B.		
CHECKED VÉRIFIÉ		DES MGR GEST CONC

COORDINATION		FIRE INCENDIE

WBS NO | NO. OTP
PF NO. | NO. DP
R.081525.001/R.081526.001

DWG NO | NO. DESSIN
S-5

Canada



SECTION A
SCALE 1:50
S-2



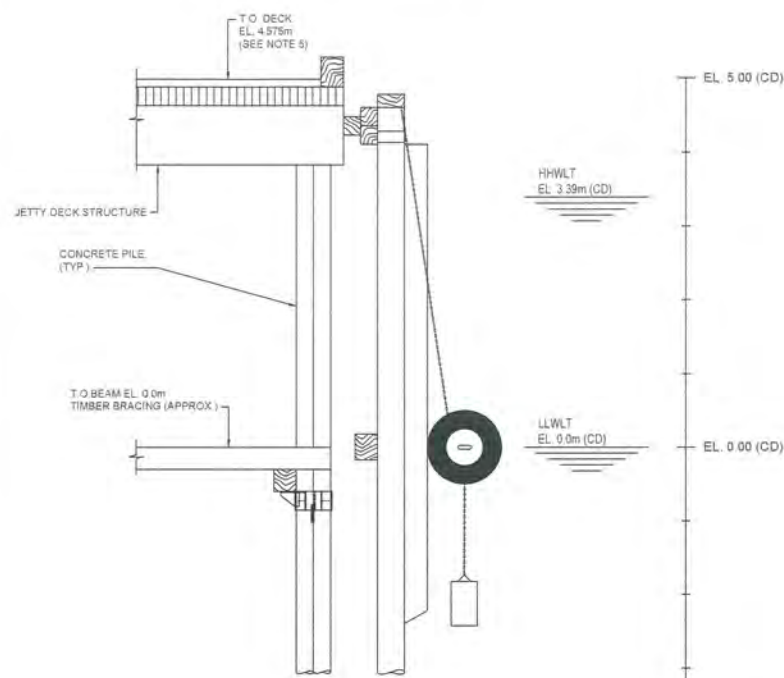
W.P. DESIGNATES WORKING POINTS
(ALSO ON DWG S-5)



BORDER LAST UPDATED 2015-04-01
2016Jul26, 6:11pm
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\\linkhcn.com\ProdData\PC\PC\20160824\01_AQ-DND Esq Harbour Env Remed\400 Drawings\20160801 - Drawings\D JettyS-1 - S-5.dwg

REMOVAL / REINSTATEMENT SEQUENCE:

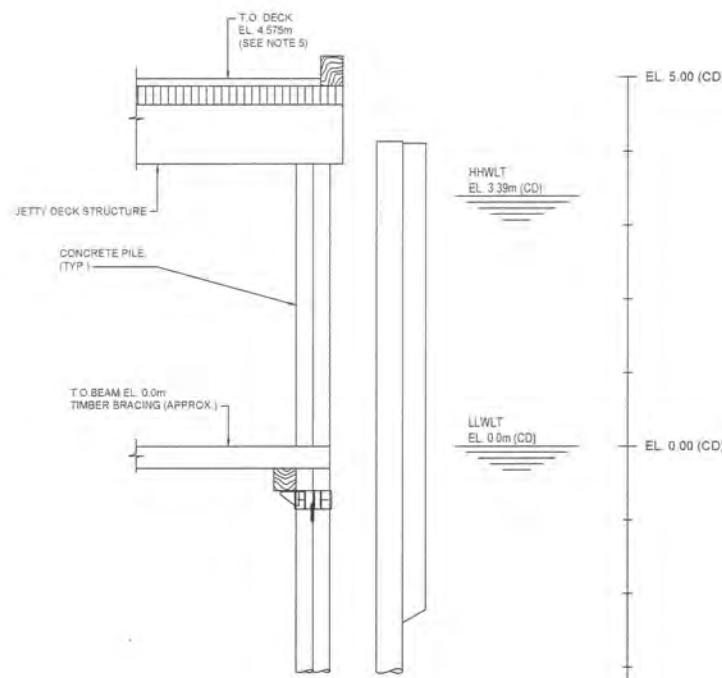
1. REMOVAL AND REINSTATEMENT SEQUENCE MAY BE CARRIED OUT IN SEQUENTIAL STAGES DEPENDING ON OPERATIONAL CONSTRAINTS AND / OR AVAILABLE STORAGE SPACE.



STAGE 1 - EXISTING STRUCTURE
SCALE: 1:50



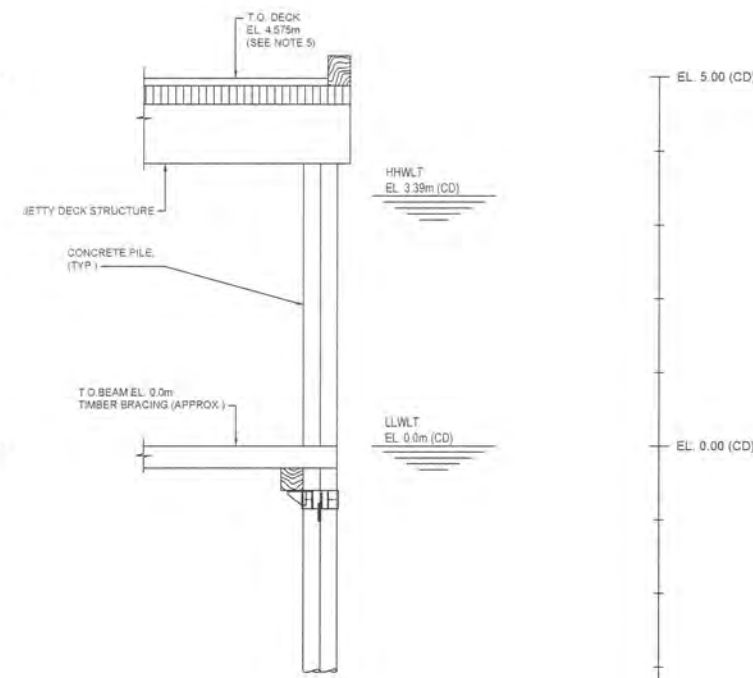
1. DISCONNECT CHAINS SECURING ALL CHAIN LADDERS NORTH BERTH ONLY. FLOATING NORTH & EAST BERTHS TIRE FENDERS AND ASSOCIATED WEIGHTS AND STORE SECURELY PER SPECIFICATION.
2. DISCONNECT FLOATING CAMEL FENDERS AND ASSOCIATED WEIGHTS AT EAST BERTH AND STORE SECURELY AS PER SPECIFICATIONS
3. DISCONNECT CHAINS SECURING THE RUBBER BUFFER UNITS AT THE UPPER WALER BEAM / JETTY FACE. MOVE COMPONENTS TO STORAGE NORTH BERTH ONLY.
4. DISCONNECT CHAINS ANCHORING FENDER PILES TO CONCRETE JETTY FACE. MOVE TO STORAGE NORTH BERTH ONLY.



STAGE 2 - FENDER COMPONENTS REMOVAL
SCALE: 1:50



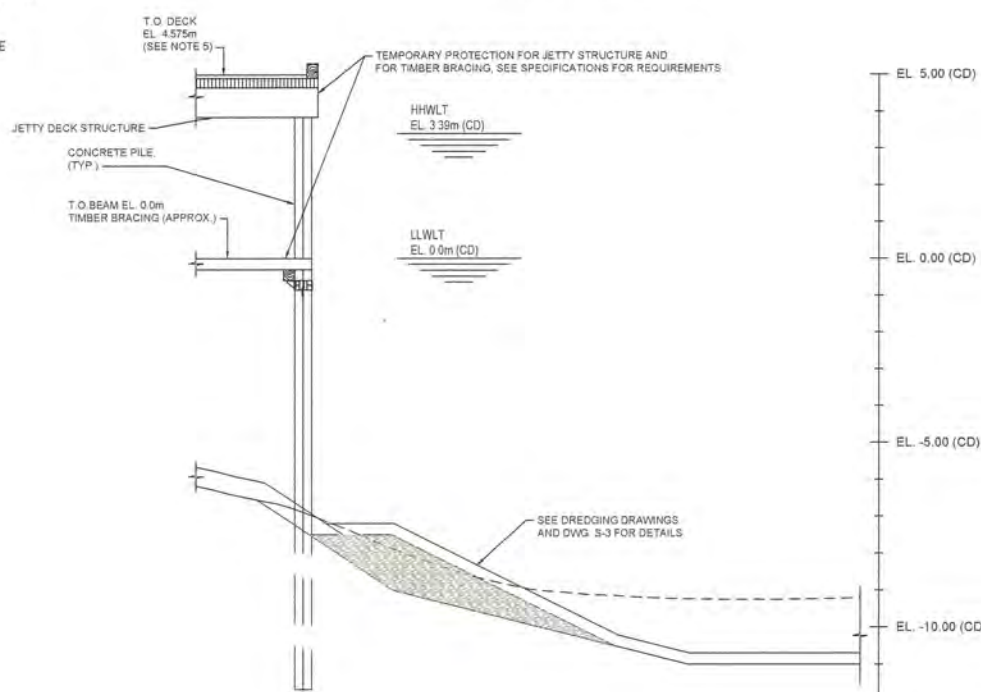
1. UNBOLT AND REMOVE TIMBER CAP BEAM, MOVE COMPONENTS TO STORAGE.
2. UNBOLT AND REMOVE TIMBER CHOCKS, MOVE COMPONENTS TO STORAGE.
3. UNBOLT AND REMOVE TIMBER WALER BEAMS (UPPER AND LOWER LEVELS), MOVE COMPONENTS TO STORAGE.



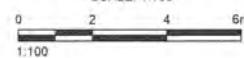
STAGE 3 - FENDER PILES REMOVAL
SCALE: 1:50



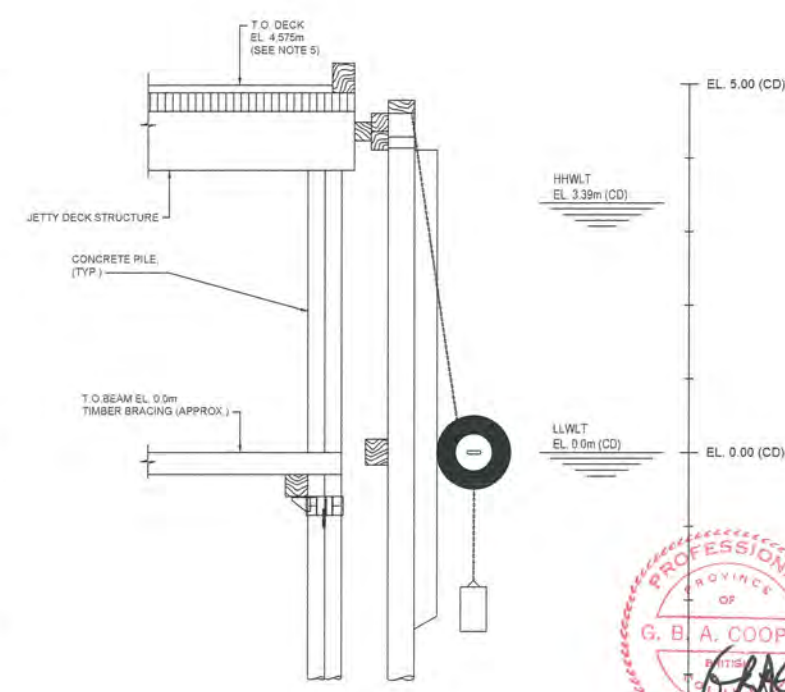
1. UNBOLT AND REMOVE TIMBER RUBBING POLES, MOVE COMPONENTS TO STORAGE.
2. UNBOLT TIMBER FENDER PILES AND EXTRACT FROM SEALED. MOVE PILES TO STORAGE.



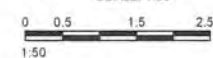
STAGE 4 - REMEDIATION
SCALE: 1:100



1. INSTALL TEMPORARY PROTECTION FOR JETTY STRUCTURE AND FOR TIMBER BRACINGS.
2. COMPLETE REMEDIATION DREDGING AND PLACEMENT OF UNDER-PIER COVER AND STRUCTURAL BACKFILL.



STAGE 5 - FENDER SYSTEM REINSTATEMENT
SCALE: 1:50



1. REMOVE TEMPORARY PROTECTION.
2. REINSTATEMENT SEQUENCE FOLLOWS REMOVAL SEQUENCE IN REVERSE ORDER (NOTE ANY COMPONENTS DEEMED UNSUITABLE FOR RE-USE SHALL BE REPLACED BY NEW MATERIAL PER THE SPECIFICATION).



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

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HORIZONTAL DATUM: UTM ZONE 10N, NAD83
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1983 STRUCTURAL REPAIR DRAWINGS
SPACING SHOWN FOR CONCRETE PILES, U.N.O.
 4. TOP OF DECK ELEVATION TO BE CONFIRMED IN THE FIELD (INCONSISTENCIES NOTED IN REPAIR DRAWINGS VS. ORIGINAL CONSTRUCTION DRAWINGS).
 5. REMOVAL OF LOWER WATER BEAM SHOULD BE COORDINATED WITH LOW TIDE, DUE TO ACCESS.

0	2016/08/01	ISSUED FOR TENDER	
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NO.	DATE	REVISION	APPR.
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AS NOTED
LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDICATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/05/16

SUBJECT | SUJET
**NORTH BERTH - FENDER
CONSTRUCTION SEQUENCE
D JETTY**

DESIGNED ÉTUDIÉ	J.O.	REVIEWED REVU	XX XX	DES O AGENT CONC
DRAWN DESSINÉ	M.B.	PROJ MGR GEST PROJ		
CHECKED VÉRIFIÉ		DES MGR GEST CONC		
COORDINATION		FIRE INCENDIE		

WBS NO | NO OTP
PF NO | NO DP
R.081525.001/R.081526.001

DWG NO | NO DESSIN
S-6

BORNER LAST UPDATED 2015-04-01
2016/05/28, 8:11pm
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http://klohn.com/ProjDetail/PCVCRP0662/401 AQ-DND Esq Harbour Env Remed400 Drawings/2016/0001 - Drawings/D JettyS-1 - S-6.dwg

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015
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. PRIMARY DIMENSIONS SHOWN IN mm, ORIGINAL IMPERIAL DIMENSIONS SHOWN IN PARENTHESES, E.G. 3048 (10'-0").
3. REFERENCE DRAWINGS:
2007 SANDWELL REPAIR DRAWINGS
1955 CONSTRUCTION DRAWINGS
1983 STRUCTURAL REPAIR DRAWINGS
4. SPACING SHOWN FOR CONCRETE PILES, U.N.O.
5. TOP OF DECK ELEVATION TO BE CONFIRMED IN THE FIELD.
(INCONSISTENCIES NOTED IN REPAIR DRAWINGS VS. ORIGINAL CONSTRUCTION DRAWINGS).

0	20160801	ISSUED FOR TENDER	
NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
AS NOTED

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/05/16

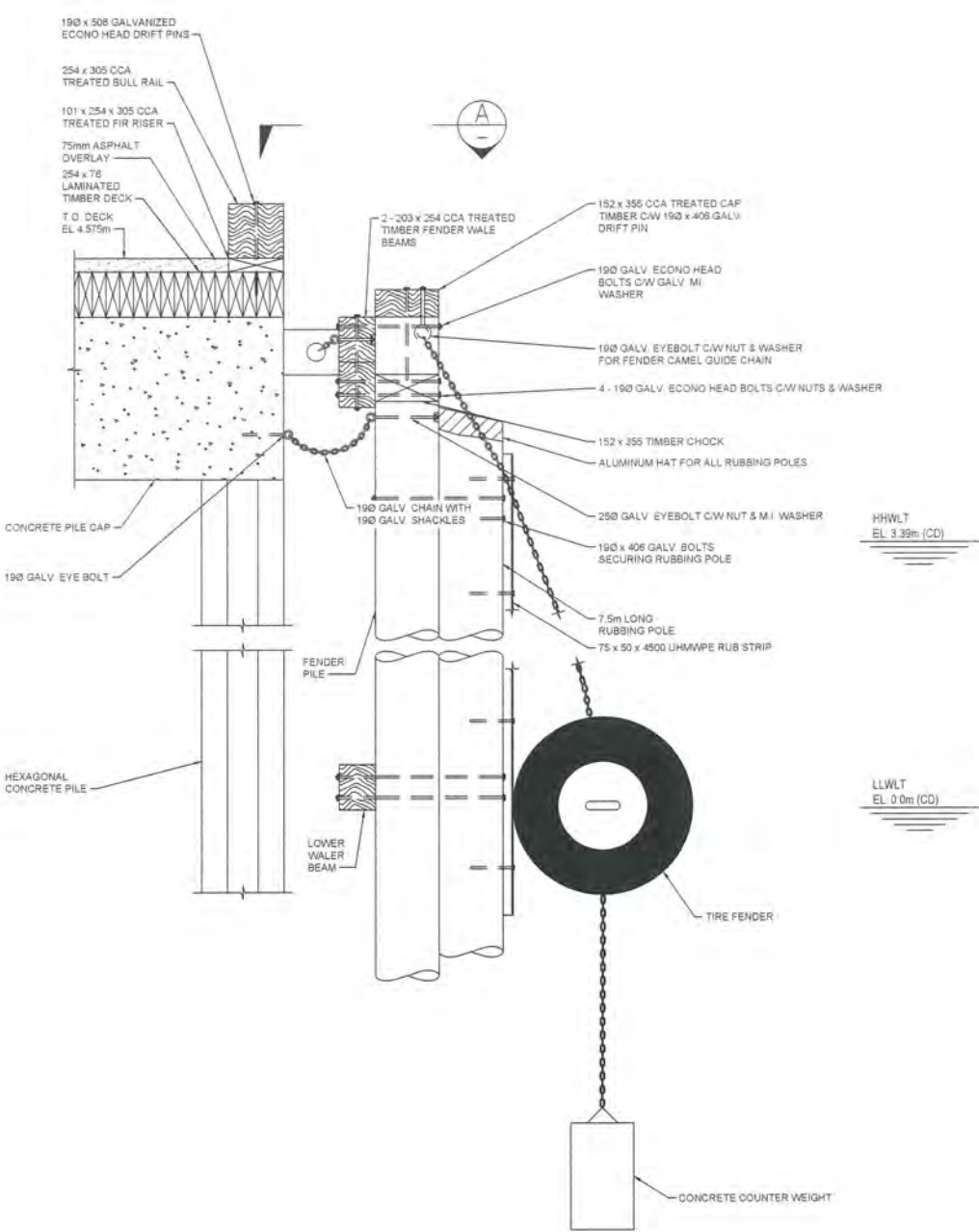
SUBJECT | SUJET
**NORTH / EAST BERTH -
FENDER DETAILS
D JETTY**

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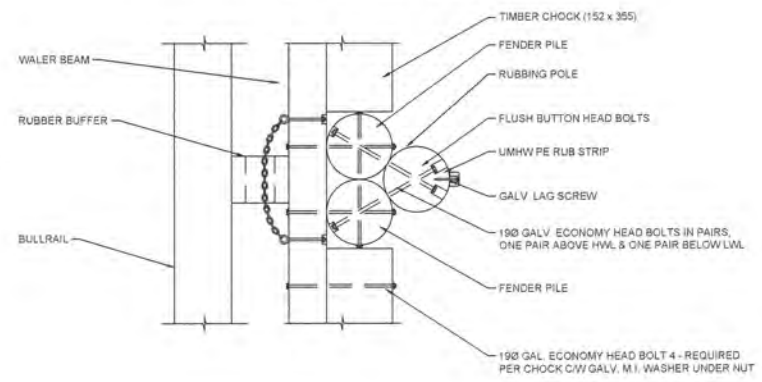
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R.081525.001/R.081526.001

DWG NO | NO DESSIN
S-7

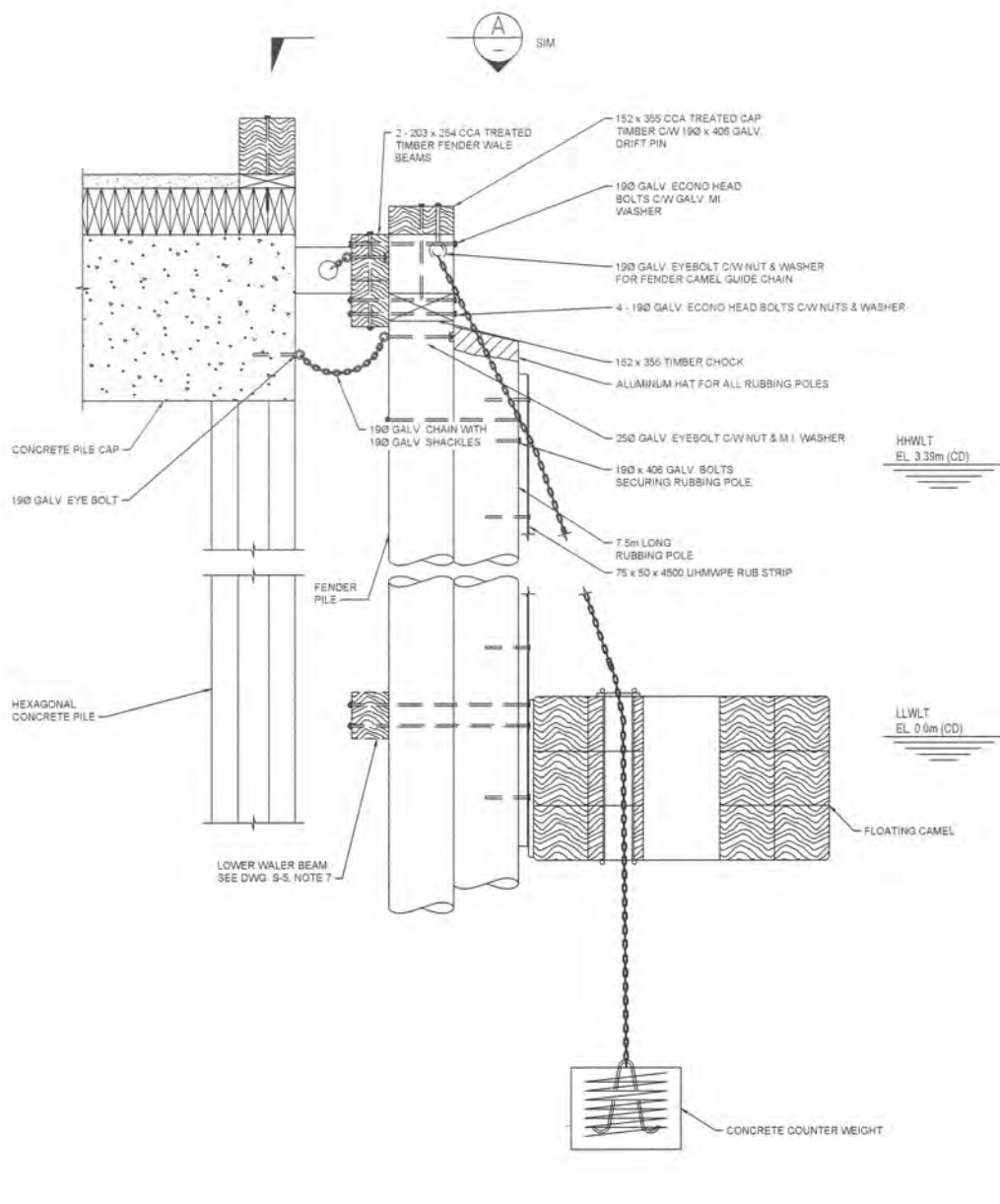
Canada



DETAIL 1
SCALE 1:20
S-3



SECTION A
SCALE 1:20



DETAIL 2
SCALE 1:20
S-5

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2016/05/26, 6:12pm Kchaira G-1 \\n\klohn.com\Proj\Dalp\PCV\0824\01 AQ-DND Esq Harbour Env Remed\400 Drawings\2016001 - Drawings\D Jetty\S-1 - S-9.dwg



1. NORTH BERTH FENDER SYSTEM



2. EAST BERTH FENDER SYSTEM



3. NORTH BERTH - EAST CORNER



4. LATERAL BRACING (NE CORNER) VISIBLE AT LOW TIDE



5. HEAVILY WORN TIMBER RUBBING POLE AT NORTH BERTH



6. VIEW LOOKING WEST ALONG THE NORTH BERTH



7. D JETTY FLOAT AT WEST END OF NORTH BERTH



8. CONCRETE/TIMBER JETTY DECK STRUCTURE

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SCALE | ÉCHELLE
N.T.S.

LOCATION | EMPLACEMENT
D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD

PROJECT | PROJET
COLWOOD JETTIES
REMEDATION PROJECT

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/05/16

SUBJECT | SUJET
D JETTY
PHOTOGRAPHS
SHEET 1 OF 2

DESIGNED ÉTUDIÉ	XX XX	DES O AGENT CONC
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DRAWN DESSINÉ		DES MGR GEST CONC
M.B.		FIRE INCENDIE
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S-8



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2016Jul26, 6:12pm
Sheet# of #

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NO.	DATE	REVISION	APPR.

SCALE | ÉCHELLE
N.T.S.

LOCATION | EMPLACEMENT
D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD

PROJECT | PROJET
COLWOOD JETTIES
REMEDATION PROJECT

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/05/16

SUBJECT | SUJET
D JETTY
PHOTOGRAPHS
SHEET 2 OF 2

DESIGNED ÉTUDIÉ	XX XX	DES O AGENT CONC
J.O.		PROJ MGR GEST PROJ
DRAWN DESSINÉ		DES MGR GEST CONC
M.B.		FIRE INCENDIE
CHECKED VÉRIFIÉ		
COORDINATION		

WBS NO | NO. OTP
PF NO. | NO. DP
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DWG. NO | NO. DESSIN
S-9

Canada



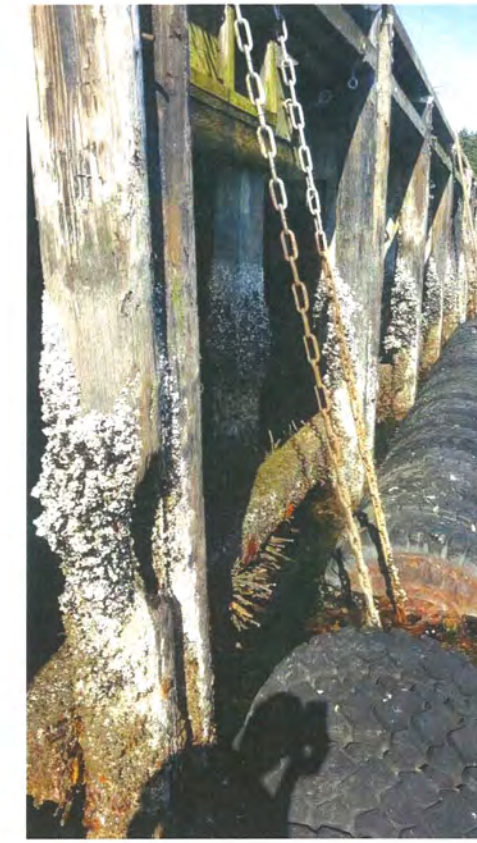
9. HEAVY MARINE GROWTH, BROKEN LOWER WALER BEAM AT THE WEST END OF THE NORTH BERTH



10. HEAVY WEAR ON RUBBING POLES AT NORTH BERTH



11. VIEW LOOKING NORTH ALONG THE EAST BERTH



12. VIEW LOOKING WEST ALONG THE NORTH BERTH



13. UNDERSIDE OF JETTY STRUCTURE AND TIMBER CHOCKS



14. CHAIN LADDER AT NORTH BERTH



15. HEAVY MARINE GROWTH ON LOWER TIMBER WALER



16. WEAR STRIPS ON RUBBING POLES AT EAST BERTH

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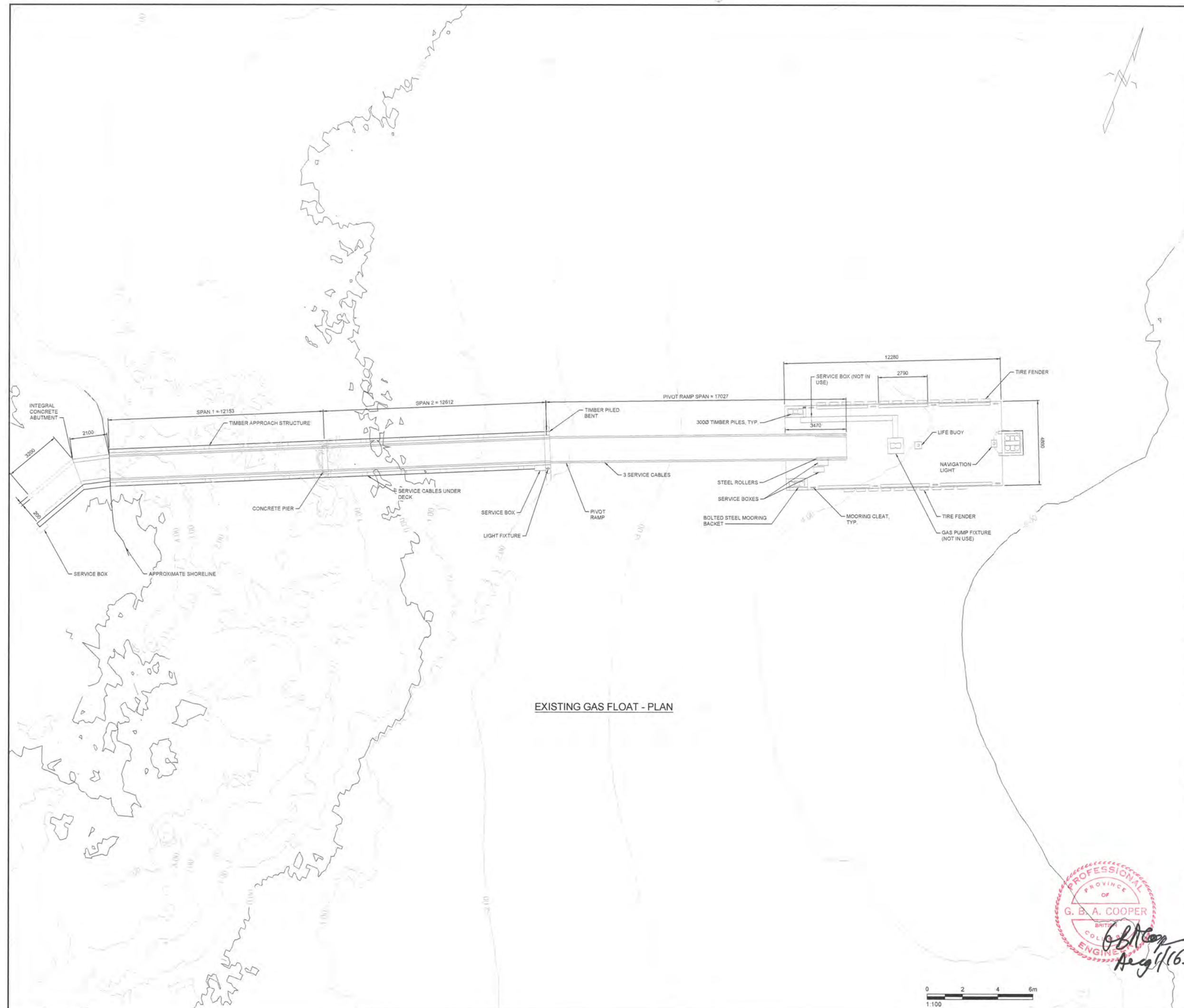
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NOTES:

1. CHART DATUM (CD) IS 1.89m BELOW CANADIAN GEOODETIC DATUM (GD)
2. DIMENSIONS SHOWN ON DRAWING ARE TAKEN FROM FIELD MEASUREMENTS FOLLOWING A STRUCTURAL RECONNAISSANCE ON JANUARY 21, 2016. DRAWING IS FOR INFORMATION PURPOSES ONLY, IN ORDER TO ILLUSTRATE THE GAS FLOAT STRUCTURES GENERAL ARRANGEMENT AND CURRENT SERVICES/CONDITION
3. STRUCTURE DIMENSIONS PROVIDED IN MILLIMETERS
4. THE PIVOT RAMP STRUCTURE IS CONNECTED VIA A PINNED HINGE AT THE TIMBER PILED BENT AND IS RESTRAINED BY A GUIDED ROLLER.
5. THE STEEL MOORING BRACKETS ON THE GAS FLOAT ARE BOLTED INTO THE TIMBER FENDERS.
6. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND NOT RELY ON THE DIMENSIONS SHOWN ON THIS DRAWING.



EXISTING GAS FLOAT - PLAN



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SCALE | ÉCHELLE
 1:100

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
 CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
 REMEDIATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
 2016/02/19

SUBJECT | SUJET
**GAS FLOAT STRUCTURES
 EXISTING ARRANGEMENT
 F/G JETTY**

DESIGNED ÉTUDIÉ	JOR	REVIEWED REVU	XX XX	DES O AGENT CONC
DRAWN DESSINÉ	MB	PROJ MGR GEST PROJ		
CHECKED VÉRIFIÉ		DES MGR GEST CONC		
COORDINATION		FIRE INCENDIE		

WBS NO | NO. OTP
 PF NO. | NO. DP
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DWG NO | NO. DESSIN
S-11

BORDER LAST UPDATED 2012-04-01
 2016/Jul/28, 8:13pm kchhara S-11 \\nt.klohn.com\Proj\Drawings\400 Drawings\2016\001 - Drawings\Gas Float\S-11 - S-14.dwg

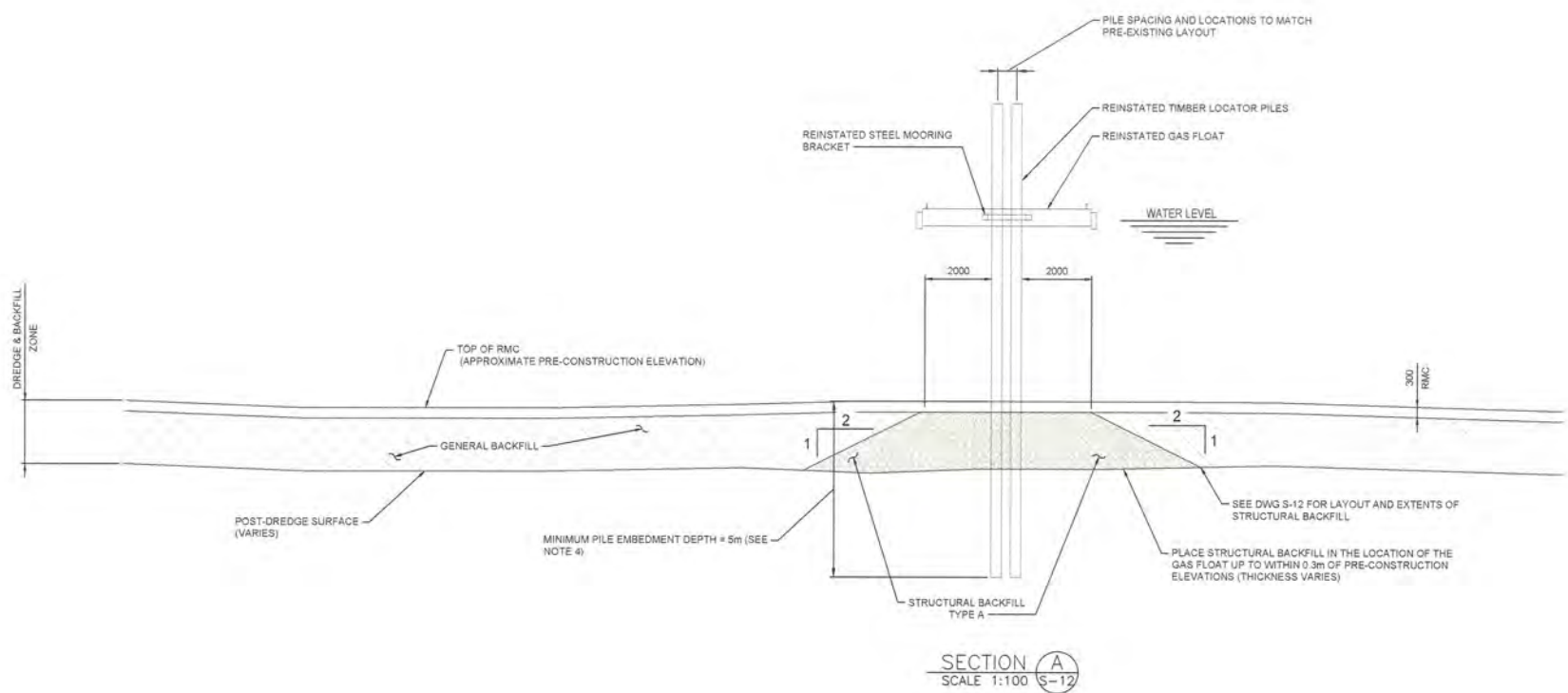
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SOURCE: BATHYMETRY FROM PWGSC SURVEYORS, DATED OCTOBER 2015.
HORIZONTAL DATUM: UTM ZONE 10N, NAD83
VERTICAL DATUM: CHART DATUM (CD)

- NOTES:
- DIMENSIONS SHOWN ON DRAWING ARE TAKEN FROM FIELD MEASUREMENTS FOLLOWING A STRUCTURAL RECONNAISSANCE ON JANUARY 21, 2016. DRAWING IS FOR INFORMATION PURPOSES ONLY, IN ORDER TO ILLUSTRATE THE GAS FLOAT STRUCTURES GENERAL ARRANGEMENT AND CURRENT SERVICES/CONDITION.
 - STRUCTURE DIMENSIONS PROVIDED IN MILLIMETERS.
 - DEPTH OF EMBEDMENT OF EXISTING LOCATOR PILES IS UNKNOWN, BUT ASSUMED TO BE 5.0m BASED ON SIMILAR EXAMPLES OF MOORING PILES.
 - REINSTATEMENT DESIGN IS BASED ON ASSUMED RE-DRIVE EMBEDMENT OF 5.0m. IF ACTUAL PILE LENGTHS (MEASURED AT THE TIME OF PILE EXTRACTION) ARE LESS THAN 5.0m LENGTH, THEN SEEK DIRECTION OF OWNERS REPRESENTATIVE.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND NOT RELY ON THE DIMENSIONS SHOWN ON THIS DRAWING.



PROFESSIONAL ENGINEER
PROVINCE OF
G. B. A. COOPER
BRITISH COLUMBIA
ENGINEER
G. B. A. Cooper
Aug 1/16



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SCALE | ÉCHELLE
1:100

LOCATION | EMPLACEMENT
**D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD**

PROJECT | PROJET
**COLWOOD JETTIES
REMEDATION PROJECT**

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL

DATE
2016/02/19

SUBJECT | SUJET
**STRUCTURAL BACKFILL
F/G JETTY**

DESIGNED ÉTUDIÉ	JOR	REVIEWED REVU	XX XX	DES O AGENT CONC
DRAWN DESSINÉ	MB	PROJ MGR GEST PROJ		
CHECKED VÉRIFIÉ		DES MGR GEST CONC		
COORDINATION		FIRE INCENDIE		

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PF NO. | NO. DP
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DWG NO. | NO. DESSIN
S-13

BORDER LAST UPDATED 2016-04-07
2016Jul26 6:15pm khaira S-13 \\nt.klohn.com\ProjData\FV\CFR\9804\01 AC-DND Esq Harbour Env Remed\400 Drawings\2016\001 - Drawings\Gas FloatS-11 - S-14.dwg



1. PIVOT RAMP AND GAS FLOAT



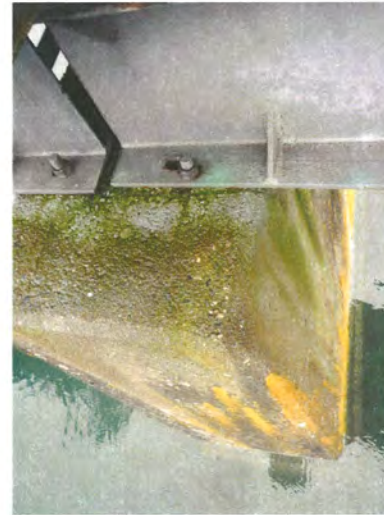
2. PINNED HINGE AT TIMBER PILED BENT



3. TIMBER LOCATOR PILES AND MOORING BRACKET



4. PIVOT RAMP



5. CONCRETE PIER AT MIDSPAN OF APPROACH STRUCTURE



6. UNDERSIDE OF PIVOT RAMP



7. TIMBER APPROACH STRUCTURE



8. SEAWARD LOCATOR PILE GROUP AND MOORING BRACKET



9. SHOREWARD END OF TIMBER APPROACH STRUCTURE

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

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NO	DATE	REVISION	APPR

SCALE | ÉCHELLE
N.T.S.

LOCATION | EMPLACEMENT
D JETTY AND F/G JETTY
CFB ESQUIMALT COLWOOD

PROJECT | PROJET
COLWOOD JETTIES
REMEDATION PROJECT

TRADE | MÉTIER
CIVIL/ENVIRONMENTAL
DATE
2016/02/19

SUBJECT | SUJET
PHOTOGRAPHS
F/G JETTY

DESIGNED ÉTUDIÉ	JOR	REVIEWED REVU	XX XX	DES O AGENT CONC
DRAWN DESSINÉ	MB	PROJ MGR GEST PROJ		
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S-14