



ISSUED FOR
TENDER



PORT STANLEY HARBOUR LNAPL REMEDIATION PROJECT

PWGSC Project No. R.013137.006



LIST OF DRAWINGS

- C01 COVER SHEET
- C02 SITE LOCATION PLAN
- C03 EAST HEADLANDS - EXISTING CONDITIONS
- C04 EAST HEADLANDS - LNAPL DISTRIBUTION PLAN
- C05 EAST HEADLANDS - REMEDIATION PLAN AND CROSS SECTION
- C06 EAST HEADLANDS - SITE RESTORATION PLAN AND SECTION
- C07 WEST PIER - EXISTING CONDITIONS
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- C09 WEST PIER - REMEDIATION PLAN AND CROSS SECTION
- C10 WEST PIER - SITE RESTORATION AND SECTIONS
- C11 EAST HEADLANDS AND WEST PIER - SITE ACCESS AND SOIL MOVEMENT PLAN
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REV	DESCRIPTION	DATE
2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JAN/22/2016

REFERENCE:
Based on Sept. 2013 Google Image

project title

LNAPL REMEDIATION
PROGRAM

PORT STANLEY HARBOUR

drawing title

COVER SHEET

designed by C.G. concu par

drawn by I.S.Z. dessine par

approved by M.W. approuve par

PWGSC Project Manager Administrateur de Projets TPSCG


scale echelle sheet feuille

project no. R.013137.006 project no. C01


date FEBRUARY 2016 date of 17

Mar 09, 2016 -- 10:38am -- USER iziba
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Canada




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Services gouvernementaux
Canada

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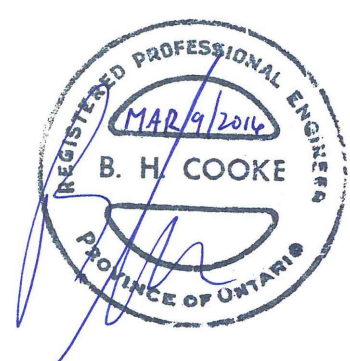


LEGEND:

PROPERTY LIMITS

LIMITS OF LNAPL WORK AREA

Engineer Stamp



02550metres

SCALE 1:1250a

2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JUN/22/2016
REVISIONS	DESCRIPTION	DATE

REFERENCE:

Based on Sept. 2013 Google Image

project title

titre du projet

LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR

drawing title

titre du dessin

SITE LOCATION PLAN
EAST HEADLANDS AND
WEST PIER

designed by

C.G.

conçu par

drawn by

I.S.Z.

dessiné par

approved by

M.W.

approuvé par

PWSC Project Manager

Administrateur de Projets TPSCG

scale

1:1250

échelle

sheet

feuille

project no.

R.013137.006

project no.

C02

date


FEBRUARY 2016

date

of 17

Mar 09, 2016 - 10:48am - USER izitba
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ARCADIS

LEGEND:

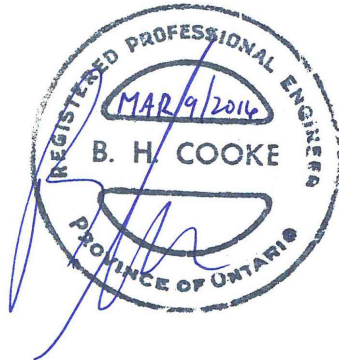
PROPERTY LIMITS

LIMITS OF LNAPL WORK AREA

CONSTRUCTION LIMITS

EXISTING FENCE

Engineer Stamp



2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JAN/22/2016
REVISIONS	DESCRIPTION	DATE

02050metres

SCALE 1:1250±

project title

titre du projet

LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR - EAST HEADLANDS

drawing title

titre du dessin

EAST HEADLANDS
EXISTING CONDITIONS

designed by

C.G.

conçu par

drawn by

I.S.Z.

dessiné par

approved by

M.W.

approuvé par

PWOSC Project Manager

Administrateur de Projets TPSCG

scale

1:750

échelle

sheet

C03

feuille

project no.

R.013137.006

projet no.

OF 17

date

FEBRUARY 2016


date

Mar 09, 2016 - 10:48am - USER iziboa
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Public Works and
Government Services
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Services gouvernementaux
Canada


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LEGEND:


PROPERTY LIMITS


EXISTING MONITORING WELL
LOCATION


TEST PIT LOCATION (APR. 2015)


LIMIT OF LNAPL WORK AREA

VISIBLE SHEEN (LNAPL)

NO VISIBLE SHEEN (LNAPL)

CONSTRUCTION LIMITS

EXISTING FENCE

FUTURE MONITORING WELLS
(TO BE INSTALLED BY OTHERS)

Engineer Stamp



2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JAN/22/2016
REVISIONS	DESCRIPTION	DATE

01020metres

SCALE 1:500±

project title

titre du projet

LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR - EAST HEADLANDS

drawing title

titre du dessin

EAST HEADLANDS
LNAPL DISTRIBUTION PLAN

designed by

C.G.

conçu par

drawn by

I.S.Z.

dessiné par

approved by

M.W.

approuvé par

PWGS&C Project Manager

Administrateur de Projets TPSGC

scale

1:500

échelle

sheet

C04

feuille

project no.

R.013137.006

projet no.

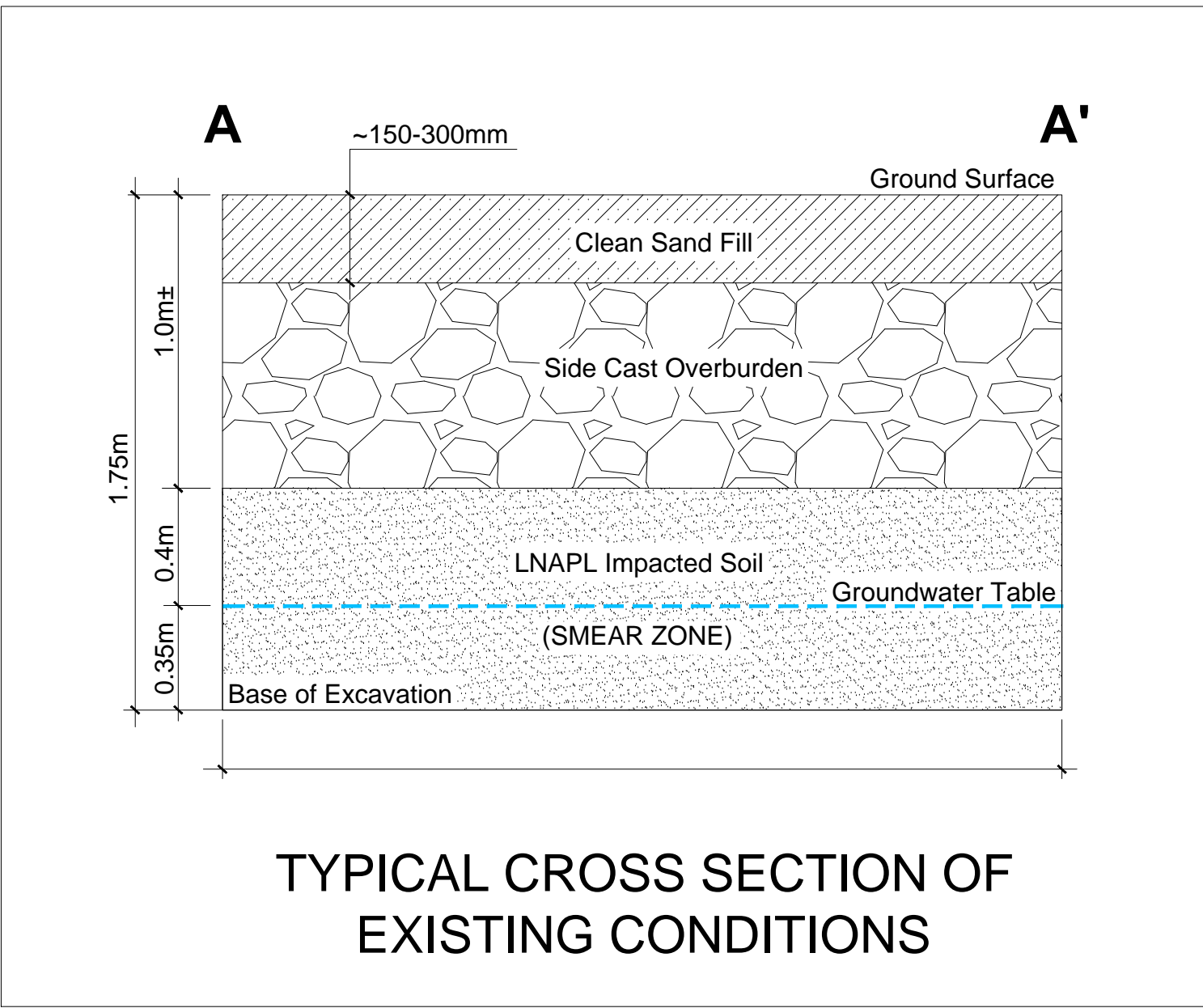
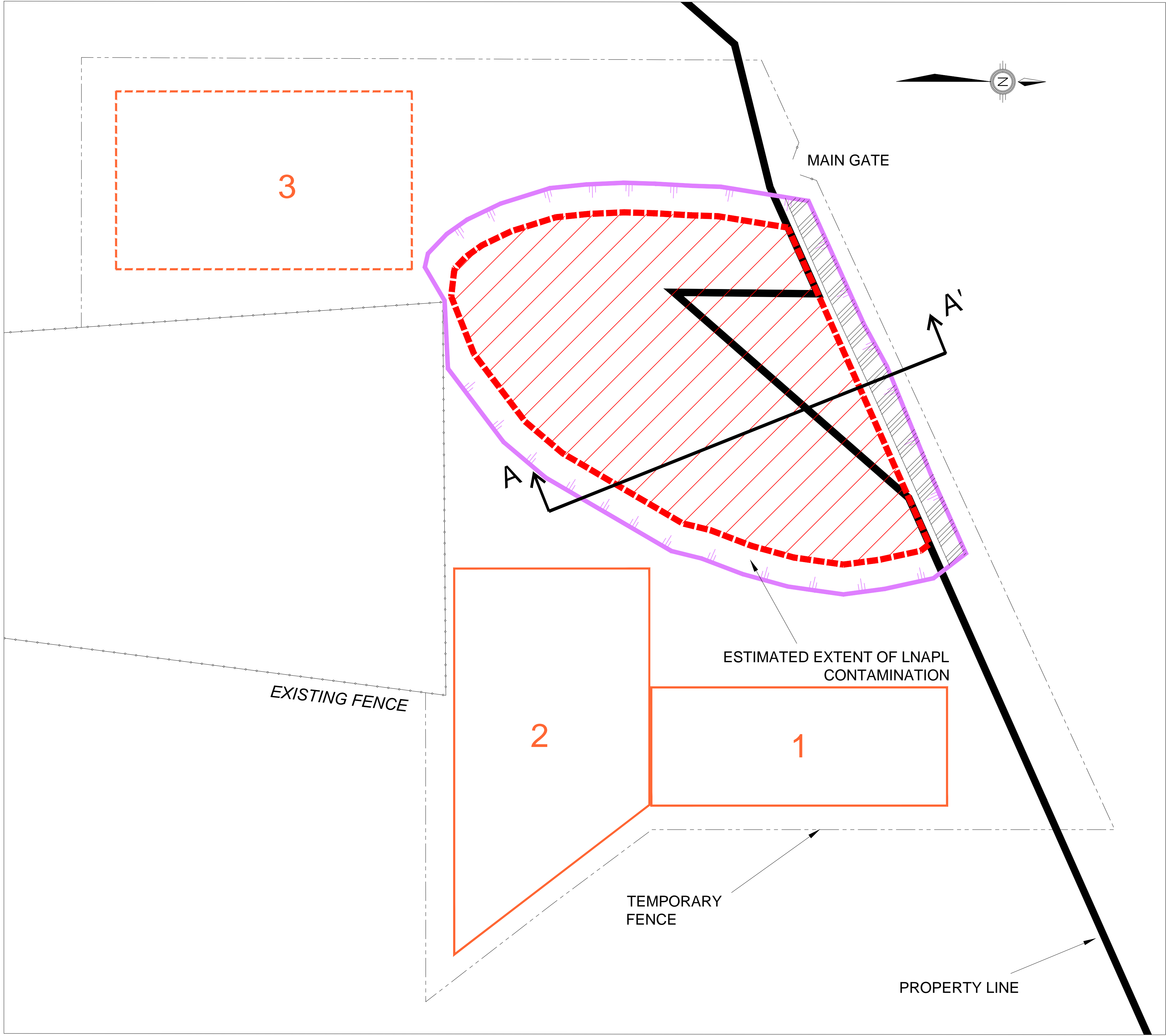
date

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OF 17

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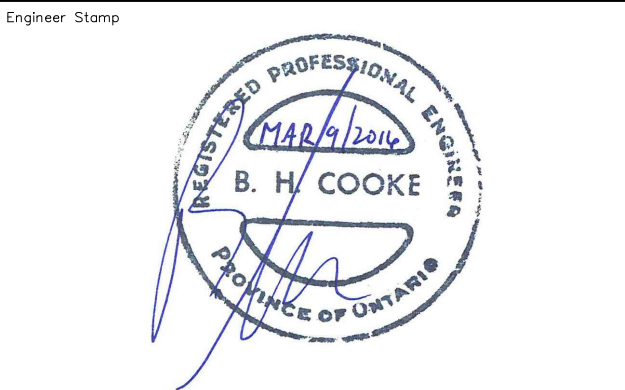


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- LEGEND:
- LIMITS OF LNAPL CONTAMINATION
 - EXCAVATION SLOPE (5 m WIDE) BASED ON 2H:1V SLOPE
 - SURFICIAL SAND STOCKPILE
 - SUBSURFACE OVERBURDEN STOCKPILE
 - LAYDOWN AREA
 - EXISTING FENCE LINE
 - TEMPORARY FENCE LINE
 - PROPERTY LINE
 - AREA OF ASPHALT AFFECTED BY REMEDIATION

NOTE:
LNAPL - LIGHT NON AQUEOUS PHASE LIQUID



0 10 20 metres
SCALE 1:400s

2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JAN/22/2016
REVISIONS	DESCRIPTION	DATE

BASED ON CH2MHILL UPDATED PHASE TWO ESA FIGURE 6-4A
JANUARY 2013

project title
titre du projet

LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR - EAST HEADLANDS

drawing title
titre du dessin

EAST HEADLANDS
REMEDIATION PLAN AND
CROSS SECTION

designed by
conçu par

drawn by
dessiné par

approved by
approuvé par

PWGSSC Project Manager
Administrateur de Projets TPSGC

scale
échelle

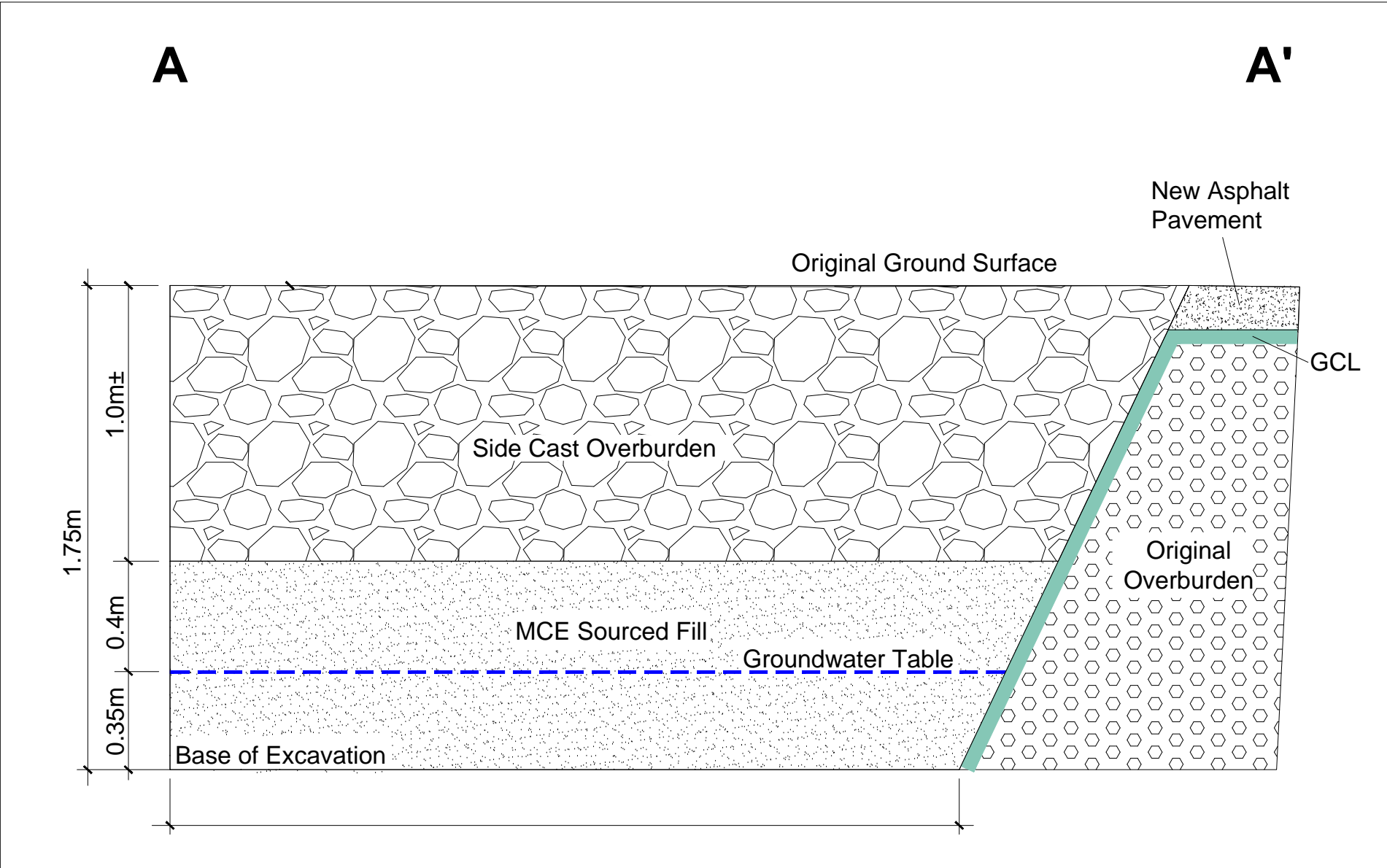
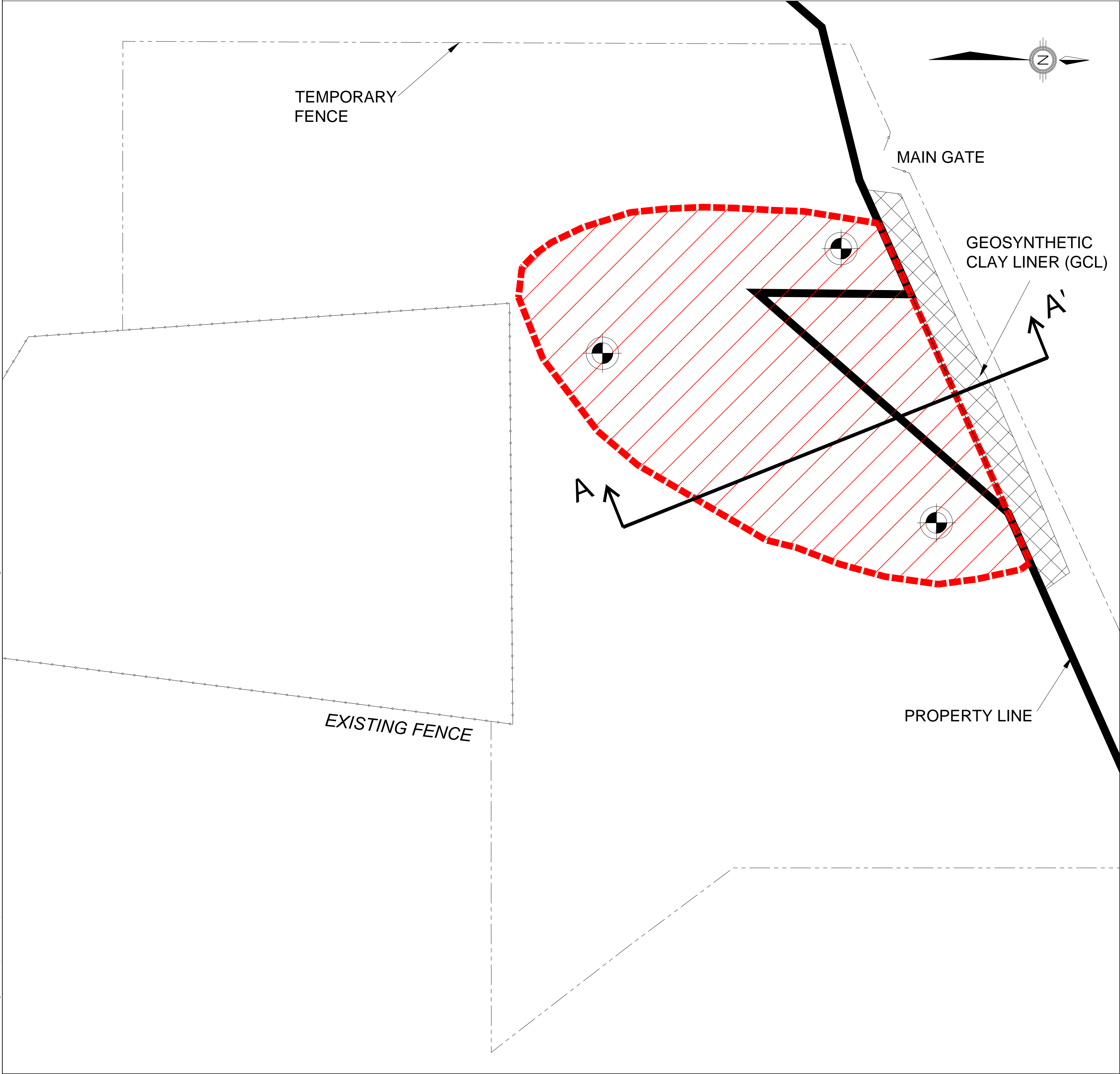
project no.
projet no.

date
date


C05
OF 17

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BACKFILLING SECTION




Public Works and
Government Services
Canada


Travaux publics et
Services gouvernementaux
Canada


ISSUED FOR
TENDER





LEGEND:


LOCATION OF NEW GROUNDWATER MONITORING WELL INSTALLATIONS

LIMITS OF LNAPL CONTAMINATION

AREA OF GEOSYNTHETIC CLAY LINER (GCL) AND POTENTIAL ASPHALT REPLACEMENT

GCL

EXISTING FENCE LINE

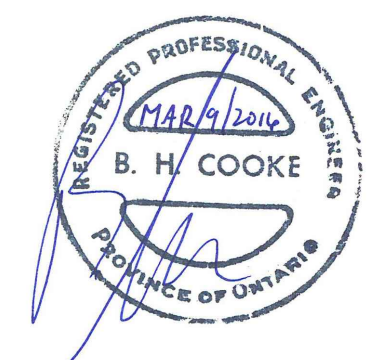
TEMPORARY FENCE LINE

NOTE:

1. REPAIR ASPHALT PAVEMENT AS SPECIFIED IF REMOVAL IS REQUIRED TO EXPEDITE REMEDIAL WORKS AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.

2. UPON REMOVAL OF GEOTEXTILE GRADE AREA BENEATH FORMER SOIL STOCKPILES TO LEVEL ANY SURPLUS MATERIAL.

Engineer Stamp



010metres

SCALE 1:400s

2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JAN/22/2016
REVISIONS	DESCRIPTION	DATE

project title

titre du projet

LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR - EAST HEADLANDS

drawing title

titre du dessin

EAST HEADLANDS
SITE RESTORATION PLAN
AND SECTION

designed by

C.G.

conçu par

drawn by

I.S.Z.

dessiné par

approved by

M.W.

approuvé par

PWSGC Project Manager

Administrateur de Projets TPSGC

scale	1:400	echelle	sheet	feuille
project no.	R.013137.006	projet no.	C06	
date	FEBRUARY 2016	date	OF	17

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Services gouvernementaux
Canada

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LEGEND:

WEST PIER PROPERTY LIMITS

LIMITS OF LNAPL WORK AREA

Engineer Stamp



01020metres

SCALE 1:500s

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1	75% SET	JAN/22/2016
REVISIONS	DESCRIPTION	DATE

REFERENCE:

1. Sept. 2013 Google Image
2. Holstead & Redmond Limited OLS, Plan of Survey Item No 10-032-3,
File No 96-0233 E, Dated 11/02/28

project title

titre du projet

LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR - WEST PIER

drawing title

titre du dessin

WEST PIER
EXISTING CONDITIONS

designed by

C.G.

conçu par

drawn by

I.S.Z.

dessiné par

approved by

M.W.

approuvé par

PWSSC Project Manager

Administrateur de Projets TPSGC

scale

1:500

echelle

sheet

feuille

project no.

R.013137.006

project no.

C07

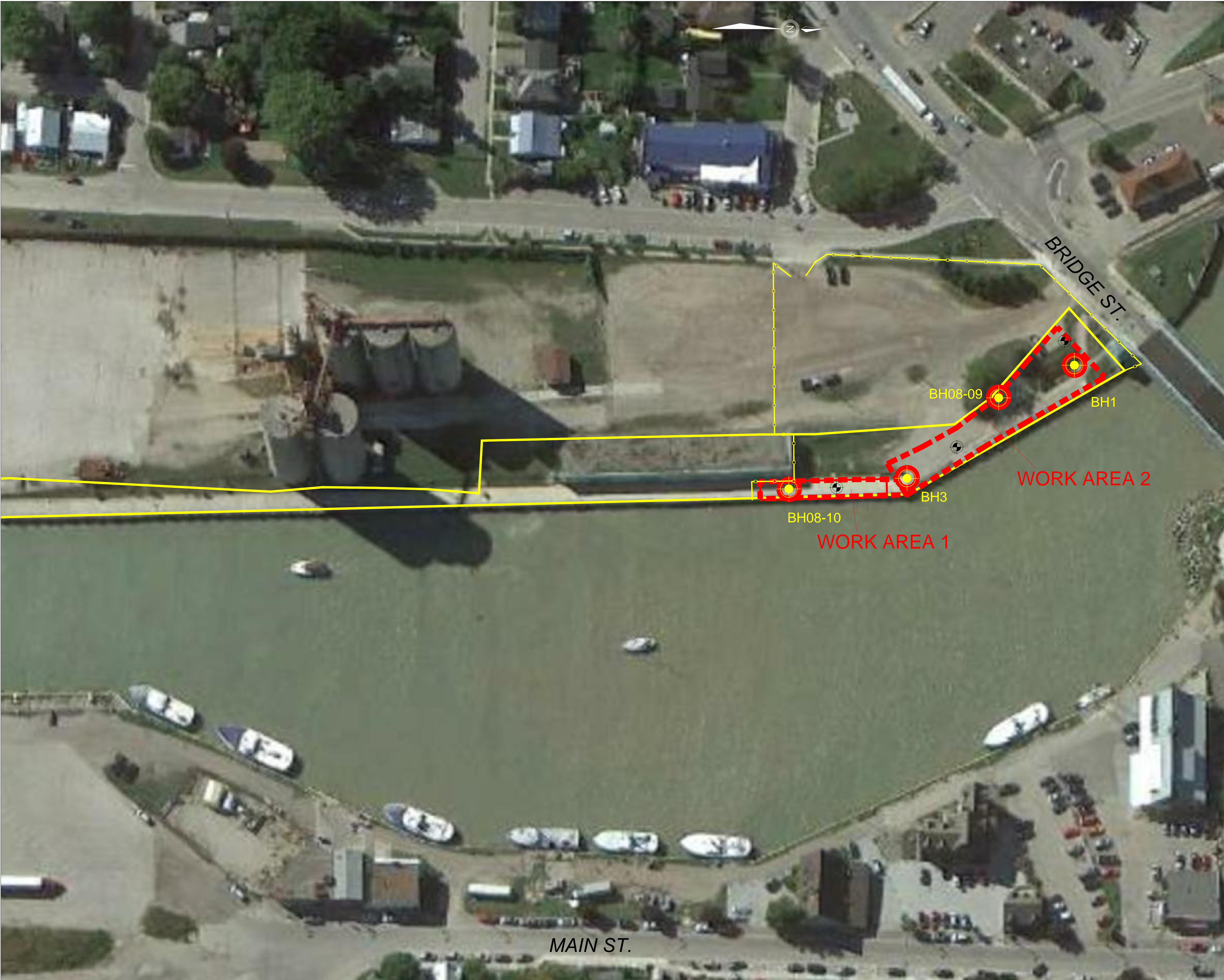
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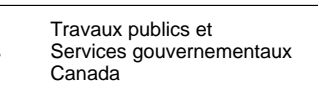
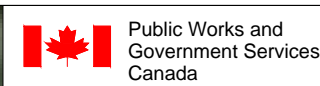
FEBRUARY 2016

date


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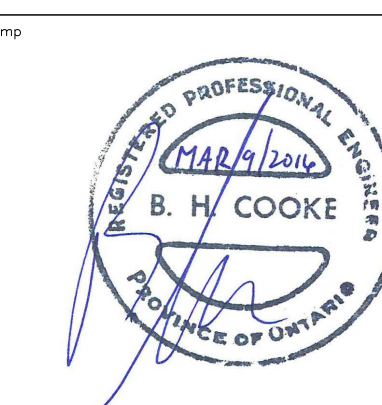
ISSUED FOR TENDER



LEGEND:

- WEST PIER PROPERTY LIMITS
- LIMIT OF LNAPL WORK AREA
- EXISTING MONITORING WELL WITH LNAPL
- FENCED WORK AREA
- FUTURE MONITORING WELLS (TO BE INSTALLED BY OTHERS)

Engineer Stamp



0 10 20 metres
SCALE 1:500s

2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JAN/22/2016
REVISIONS	DESCRIPTION	DATE

REFERENCE:

1. Sept. 2013 Google Image
2. Holstead & Redmond Limited OLS, Plan of Survey Item No 10-032-3, File No 96-0233 E, Dated 11/02/28

project title titre du projet

LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR - WEST PIER

drawing title titre du dessin

**WEST PIER
LNAPL DISTRIBUTION PLAN**

designed by conçu par
C.G.

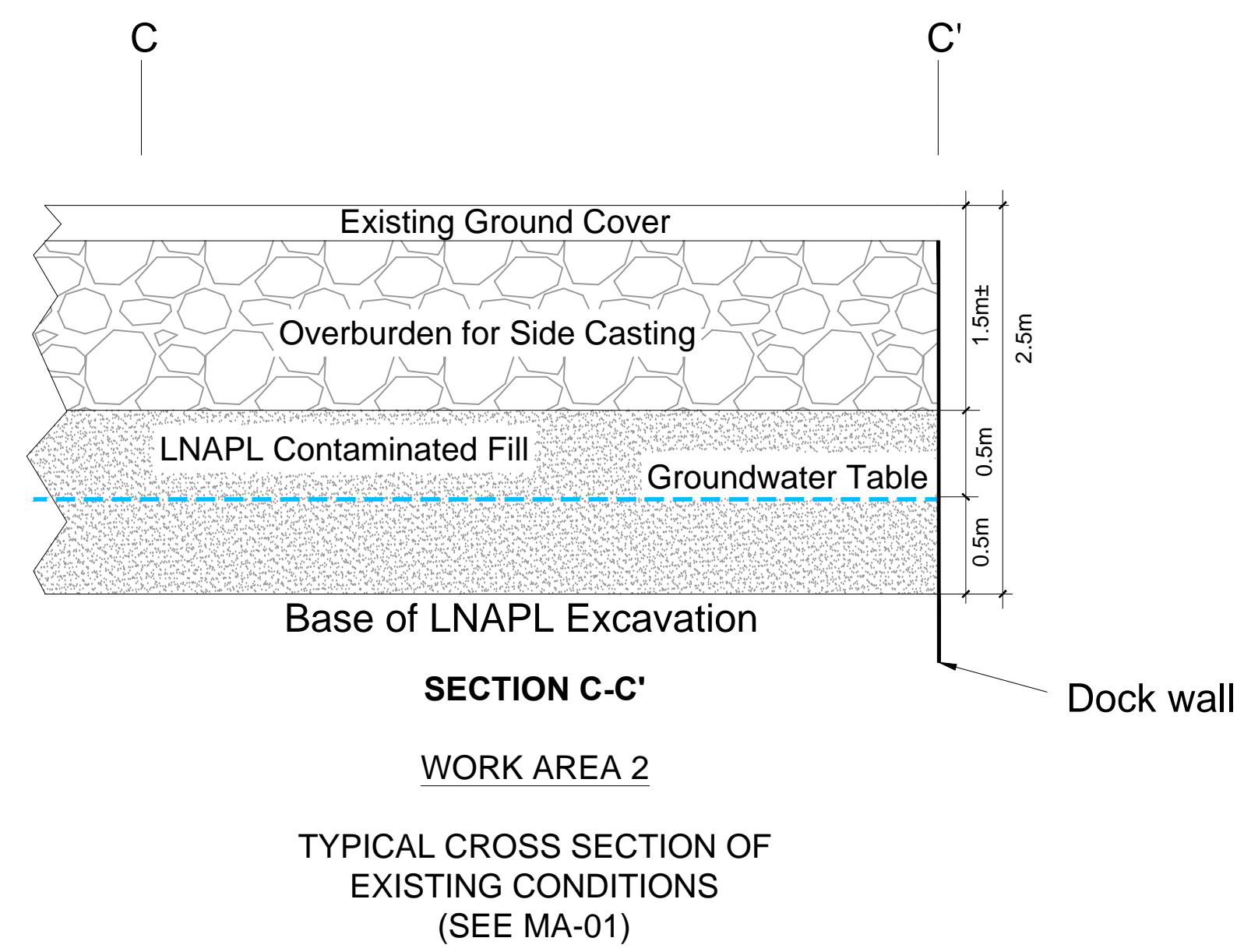
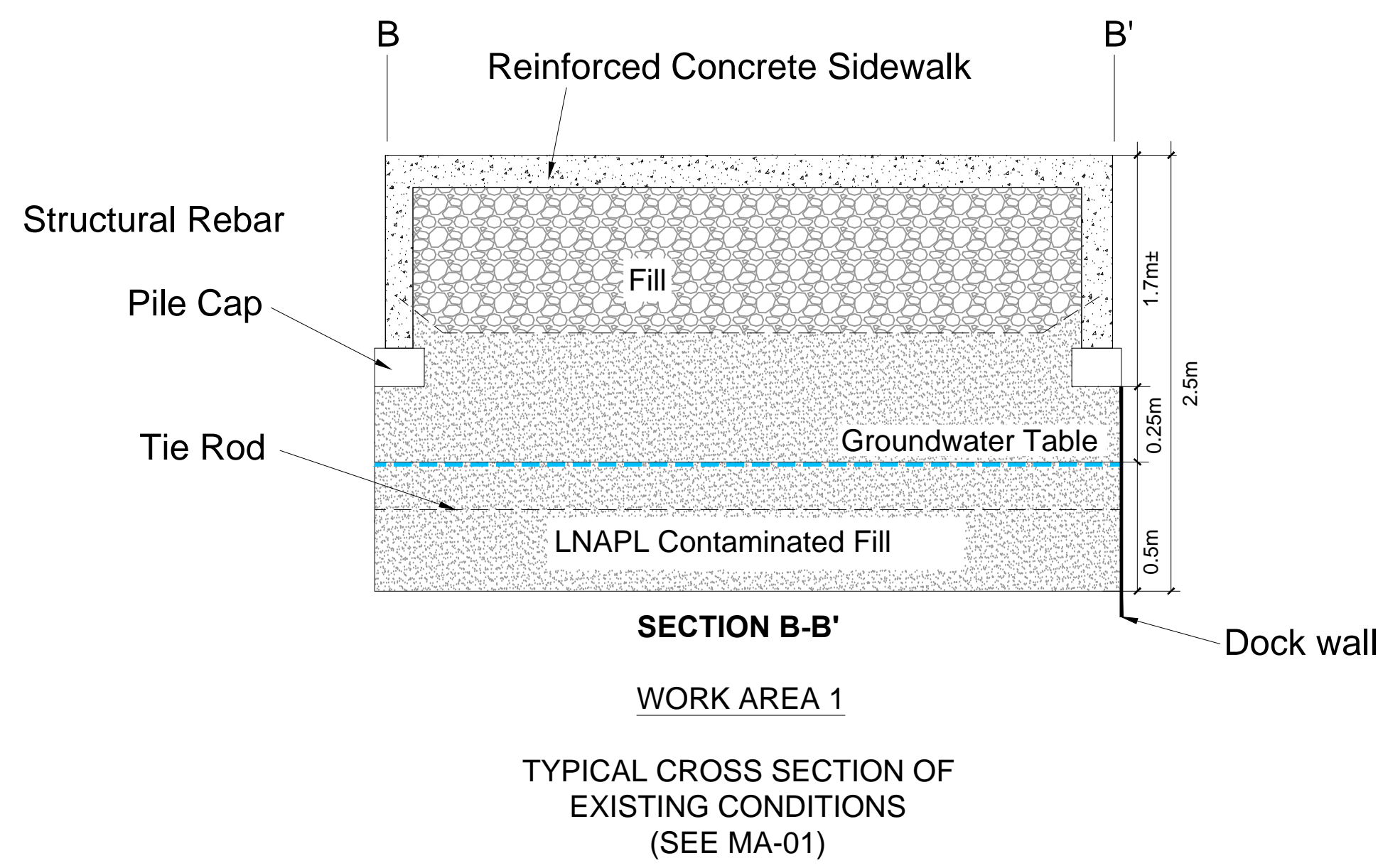
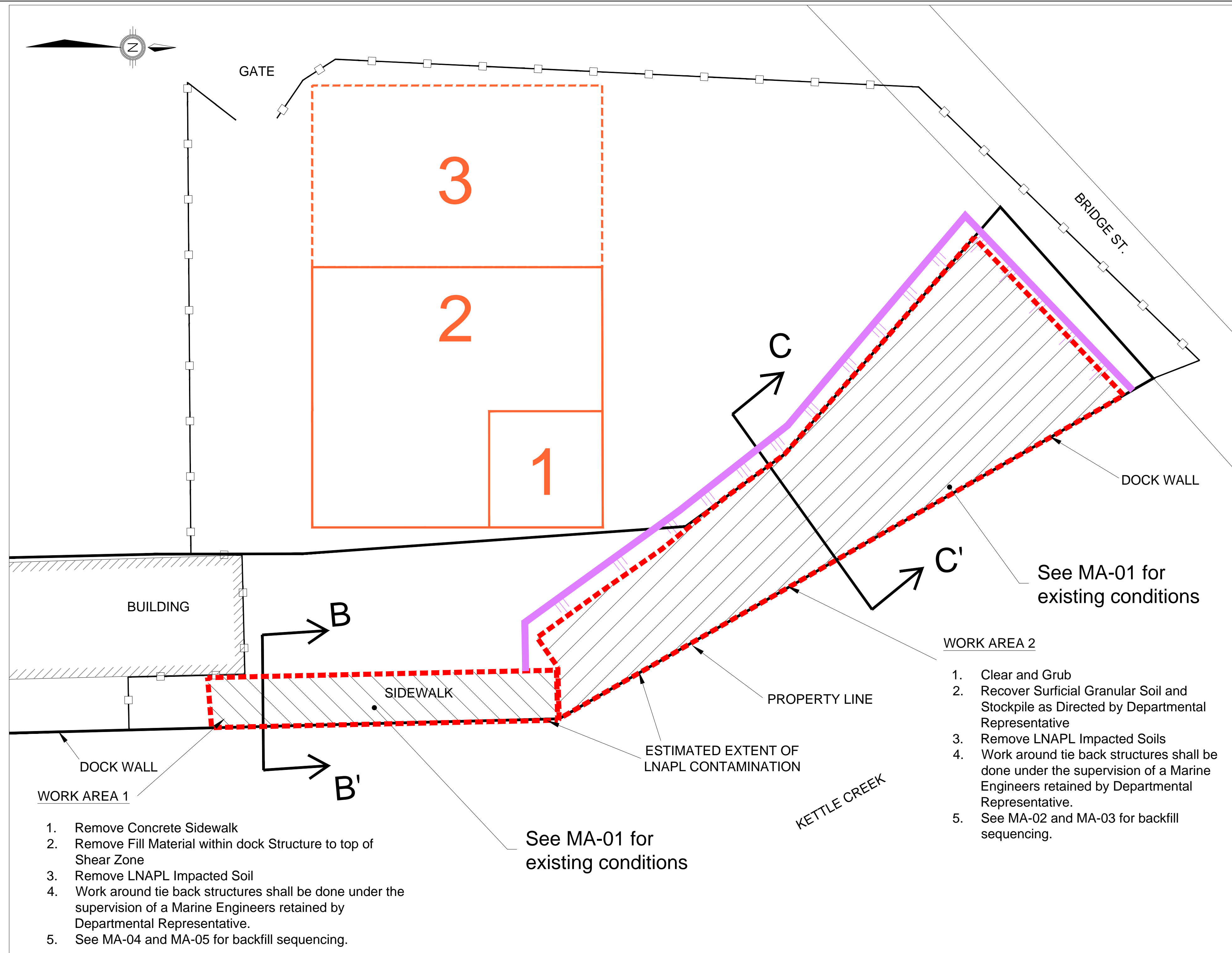
drawn by dessinée par
I.S.Z.

approved by approuvé par
M.W.

PWSSC Project Manager Administrateur de Projets TPSGC

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project no.	R.013137.006	project no.	C08	
date	FEBRUARY 2016	date	OF 17	

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LEGEND:

- LIMITS OF REMEDIAL WORK
- PROPERTY LINE
- 1 AGGREGATE STOCKPILE
- 2 FILL STOCKPILE
- 3 LAYDOWN AREA
- EXTENT OF EXCAVATION SLOPE (3m WIDE)
- TEMPORARY FENCE
- LIMITS OF LNAPL CONTAMINATION - WORK AREA 1
- LIMITS OF LNAPL CONTAMINATION - WORK AREA 2



0 5 10 metres
SCALE 1:250±

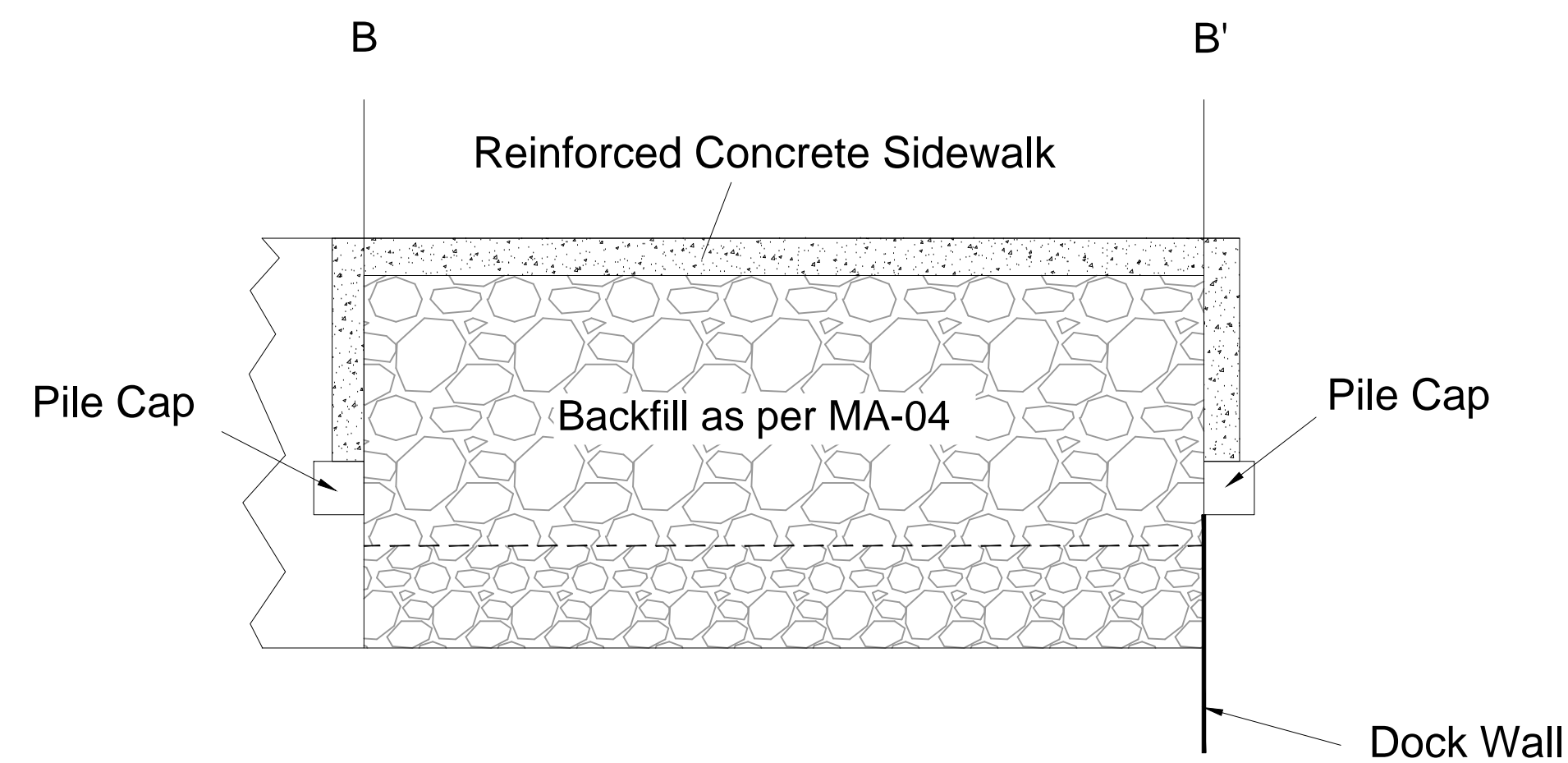
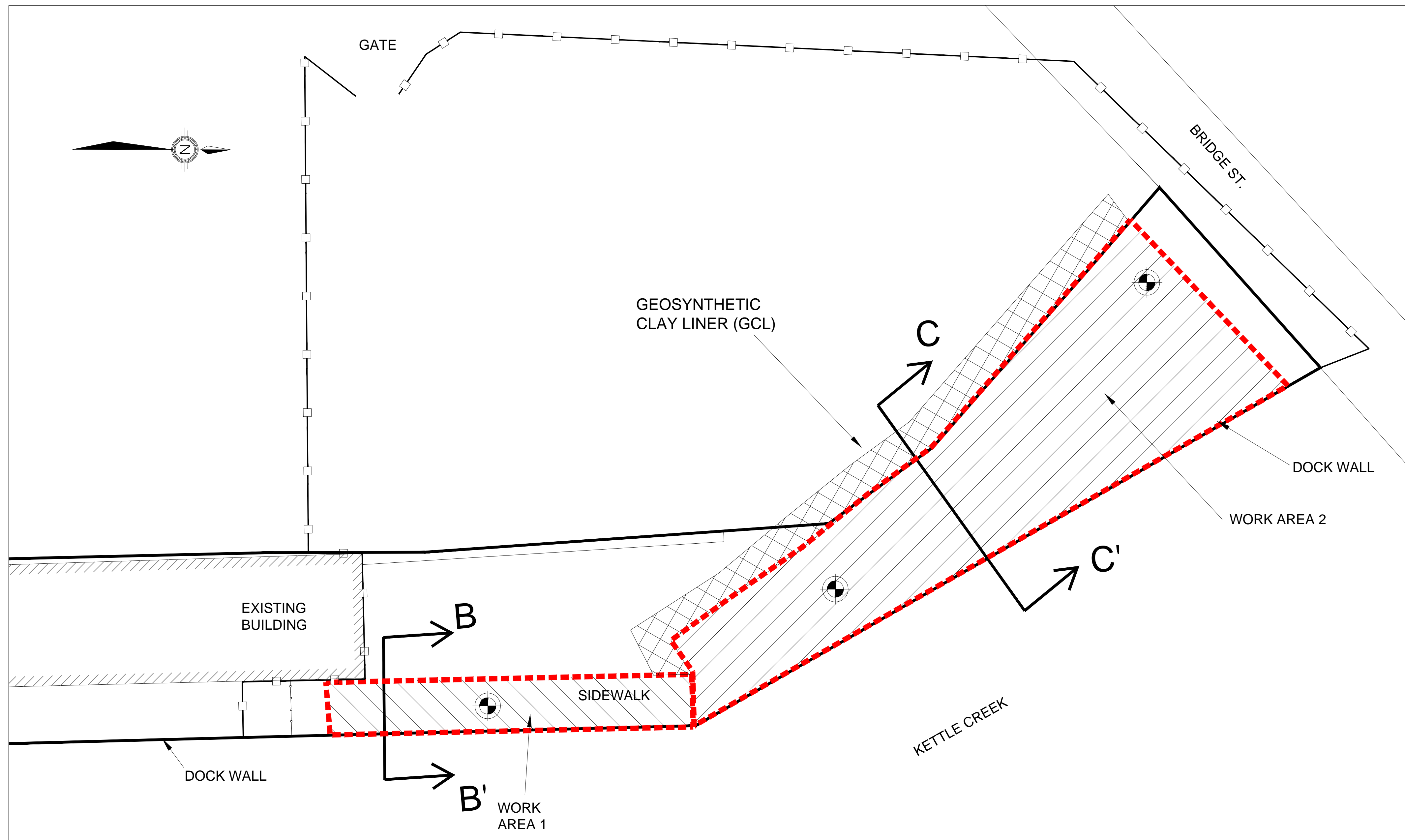
REVISIONS	DESCRIPTION	DATE
2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JAN/22/2016

project title
LNAPL REMEDIATION PROGRAM
PORT STANLEY HARBOUR - WEST PIER

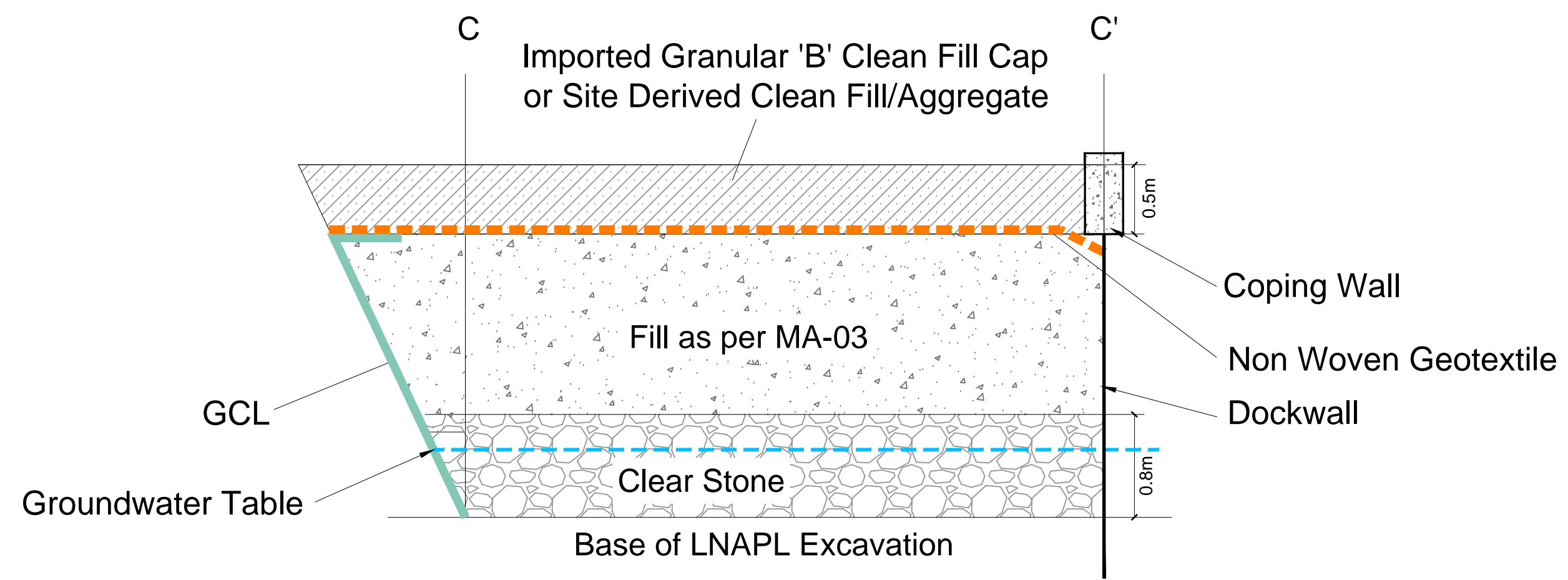
drawing title
**WEST PIER
REMEDIATION PLAN AND
CROSS SECTION**

designed by	C.G.	conçu par	
drawn by	I.S.Z.	dessiné par	
approved by	M.W.	approuvé par	
PWSSC Project Manager	Administrateur de Projets TPSSC		
scale	1:250	échelle	sheet
project no.	R.013137.006	projet no.	C09
date	FEBRUARY 2016	date	of 17

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SECTION B-B'
TYPICAL CROSS SECTION OF
REMEDATION WORK
(See MA-04 & MA-05 for sequencing)



SECTION C-C'
TYPICAL CROSS SECTION OF
REMEDATION WORK
(See MA-02 & MA-03 for sequencing)

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TENDER**



LEGEND:

- LIMITS OF REMEDIAL WORK
- ⊕ LOCATION OF NEW GROUNDWATER MONITORING WELL INSTALLATIONS (BY OTHERS)
- GCL
- AREA OF GEOSYNTHETIC CLAY LINER (GCL)
- NON WOVEN GEOTEXTILE
- LIMITS OF LNAPL CONTAMINATION - WORK AREA 1
- LIMITS OF LNAPL CONTAMINATION - WORK AREA 2

Engineer Stamp



0 5 10 metres
SCALE 1:250a

REVISIONS	DESCRIPTION	DATE
2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JAN/22/2016

project title titre du projet

LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR - WEST PIER

drawing title titre du dessin

**WEST PIER
SITE RESTORATION PLAN
AND SECTIONS**

designed by C.G. conçu par

drawn by I.S.Z. dessinée par

approved by M.W. approuvé par

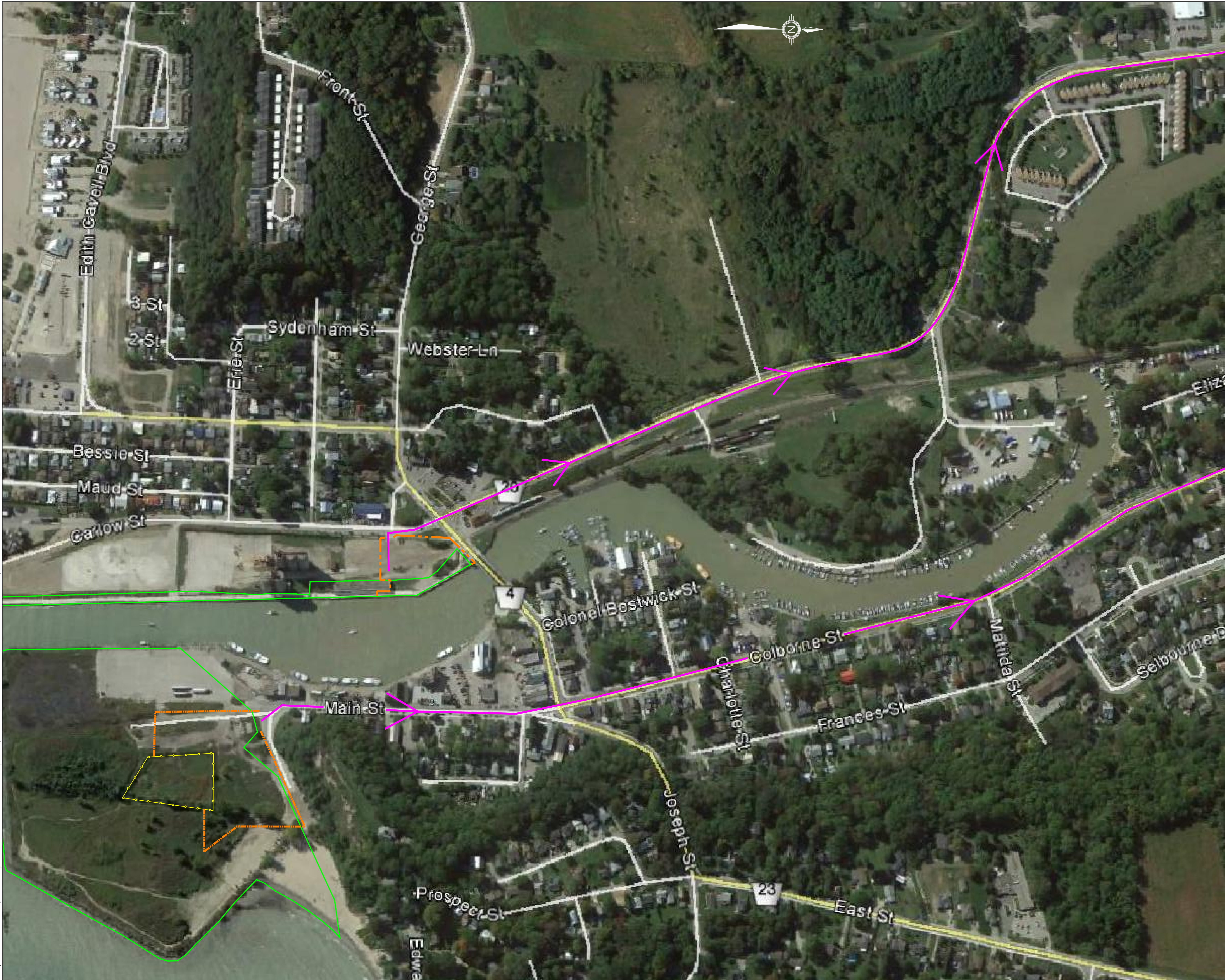
PM/SC Project Manager Administrateur de Projets TP/SC


scale 1:500 échelle sheet feuille

project no. R.013137.006 projet no. C10


date FEBRUARY 2016 date OF 17

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LEGEND:

PROPERTY LIMITS

SOIL MOVEMENT ROUTE

CONSTRUCTION LIMITS

Engineer Stamp



0 40 80 metres

SCALE 1:2000s

REVISIONS	DESCRIPTION	DATE
2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JAN/19/2016

NOTE:

IMPACTED SOIL TO BE TRANSPORTED TO A LICENSED RECEIVER ALONG MUNICIPAL ROADWAYS AND PROVINCIAL HIGHWAYS.

REFERENCE:

Based on Sept. 2013 Google Image

project title

titre du projet

LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR - WEST PIER

drawing title

titre du dessin

EAST HEADLANDS AND WEST PIER
SITE ACCESS AND
SOIL MOVEMENT PLAN

designed by

C.G.

conçu par

drawn by

I.S.Z.

dessiné par

approved by

M.W.

approuvé par

PWSGC Project Manager

Administrateur de Projets TPSGC

scale

1:2000

échelle

project no.

R.013137.006

projet no.

date

FEBRUARY 2016

date

sheet

C11

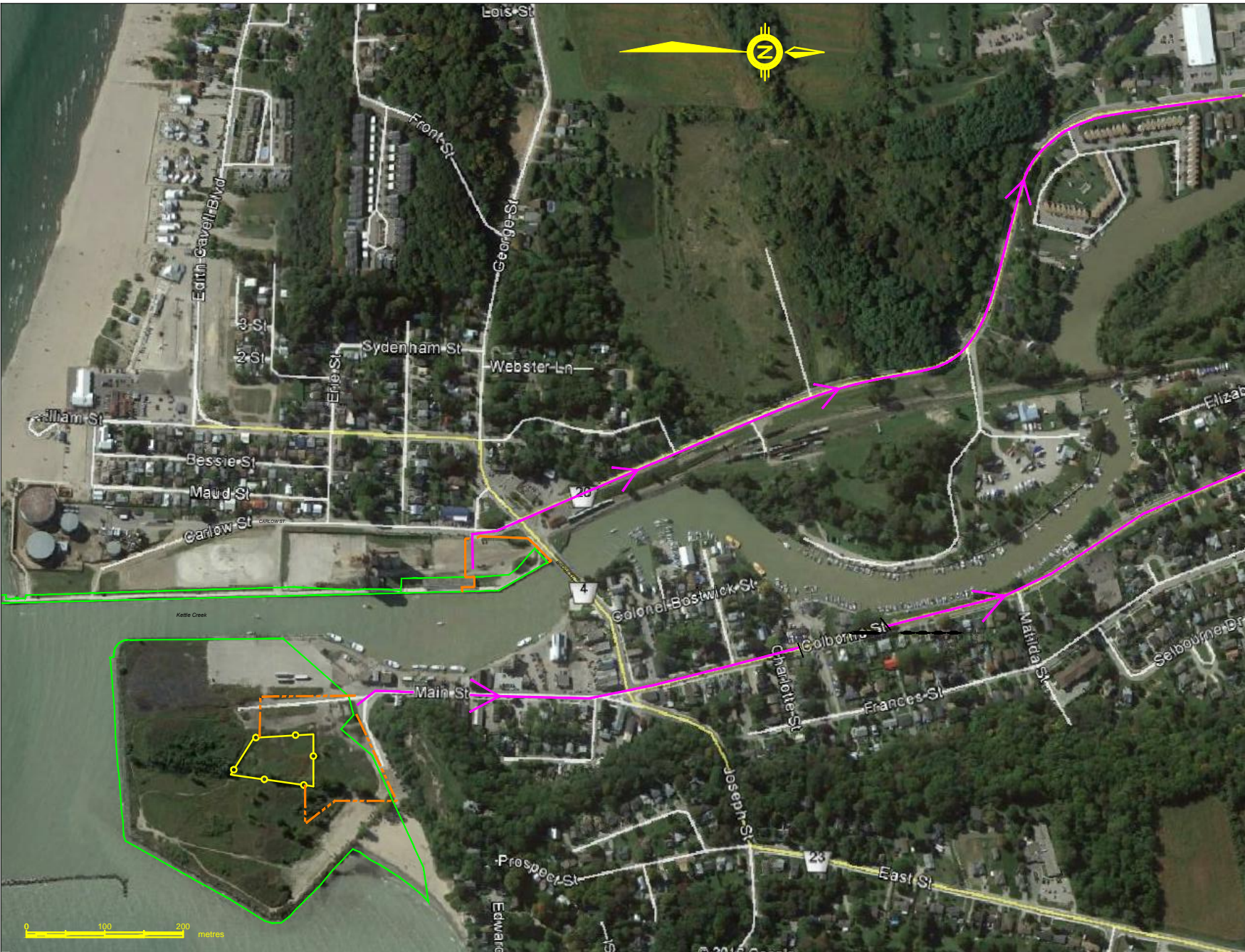
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OF

17

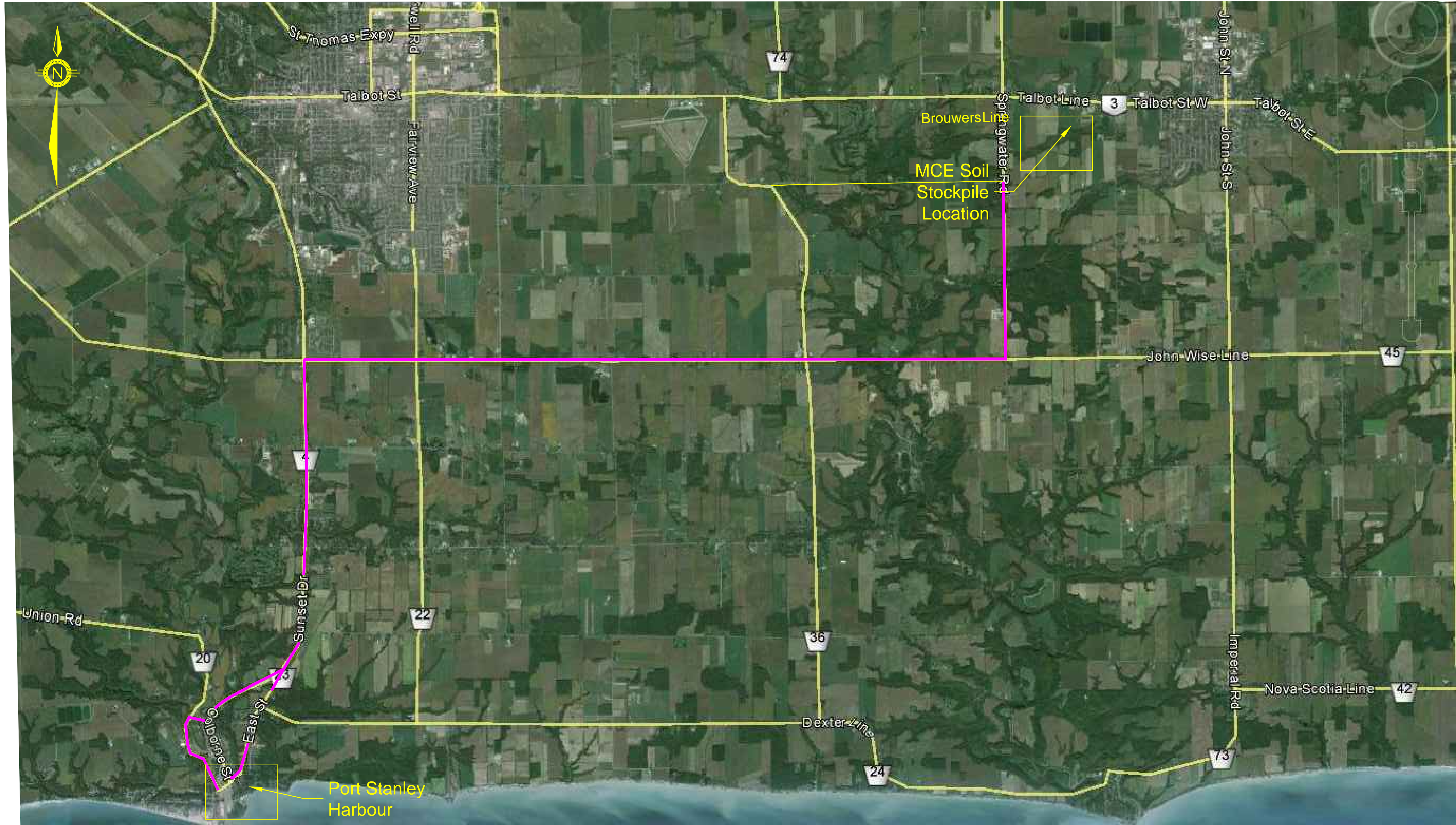
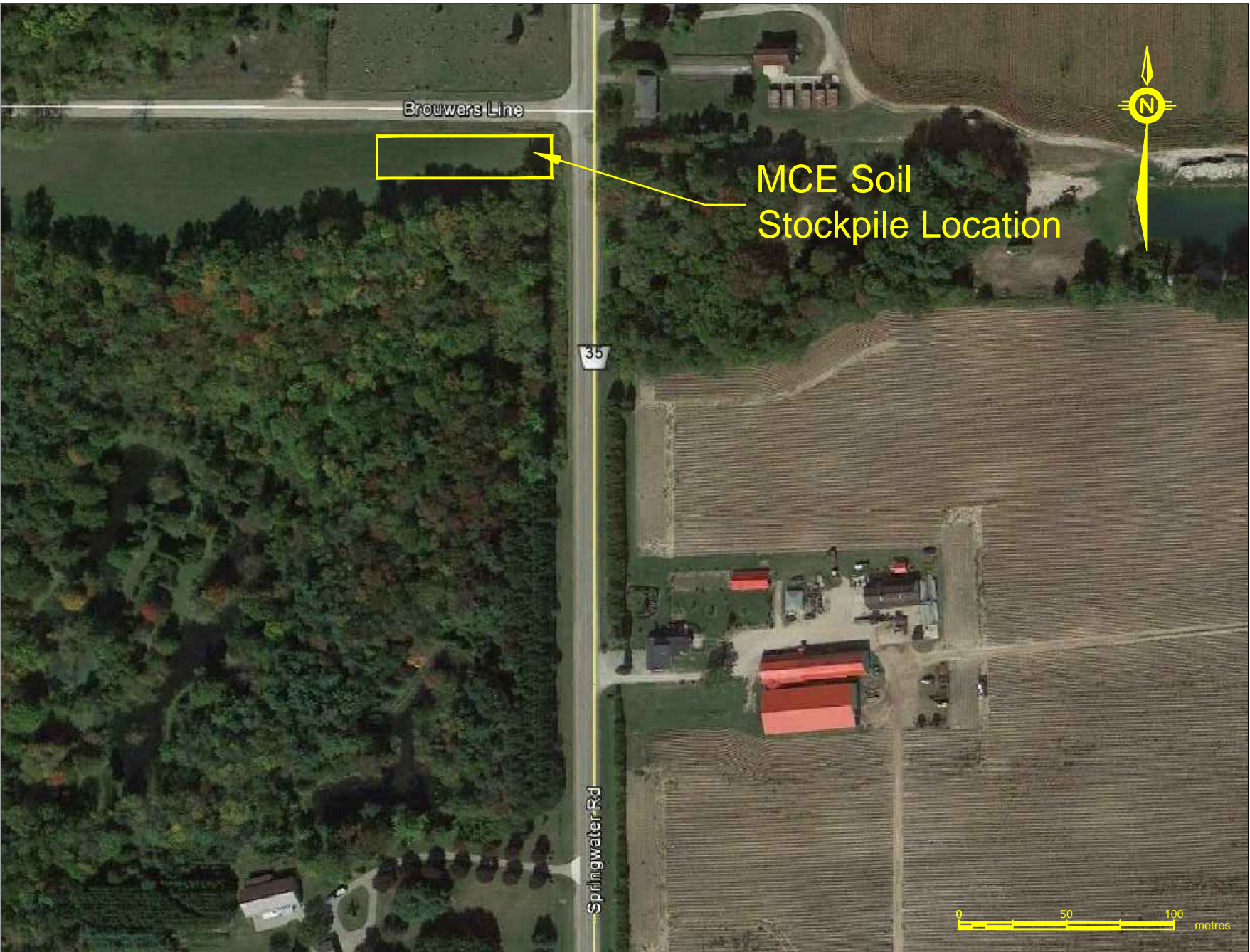
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PORT STANLEY TRAFFIC PLAN



ROUTE PLAN

SITE LOCATION PLAN



ISSUED FOR
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LEGEND:

- PROPERTY LIMITS
- SOIL MOVEMENT ROUTE
- CONSTRUCTION LIMITS

Engineer Stamp



REVISIONS	DESCRIPTION	DATE
2	ISSUED FOR TENDER	MAR/9/2016
1	75% SET	JAN/19/2016

REFERENCE:

Based on Google Maps 2013 Imagery

project title titre du projet

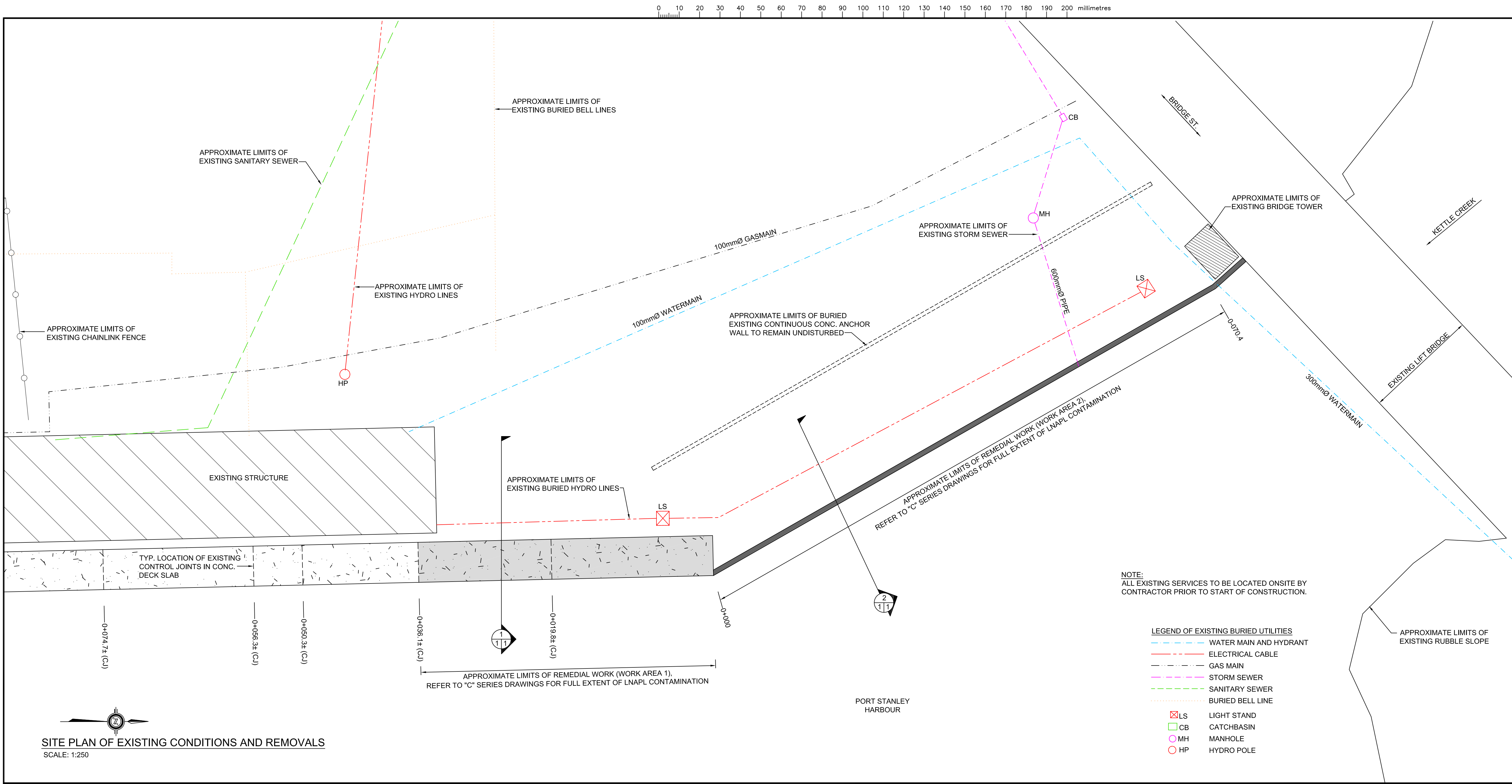
LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR - WEST PIER

drawing title titre du dessin

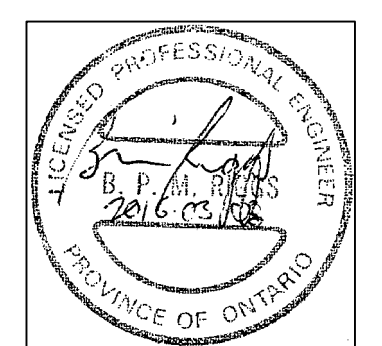
**MCE BORROW SOURCE
LOCATION PLAN**

designed by	C.G.	conçu par	
drawn by	I.S.Z.	dessiné par	
approved by	M.W.	approuvé par	
PWSSC Project Manager		Administrateur de Projets TPSGC	
scale	AS SHOWN	échelle	sheet
project no.	R.013137.006	projet no.	C12
date	FEBRUARY 2016	date	OF 17



Public Works and
Government Services Canada
Architectural and Engineering Services
Ontario Region
Travaux publics et
Services gouvernementaux Canada
Services d'architecture et de génie
Région de l'Ontario

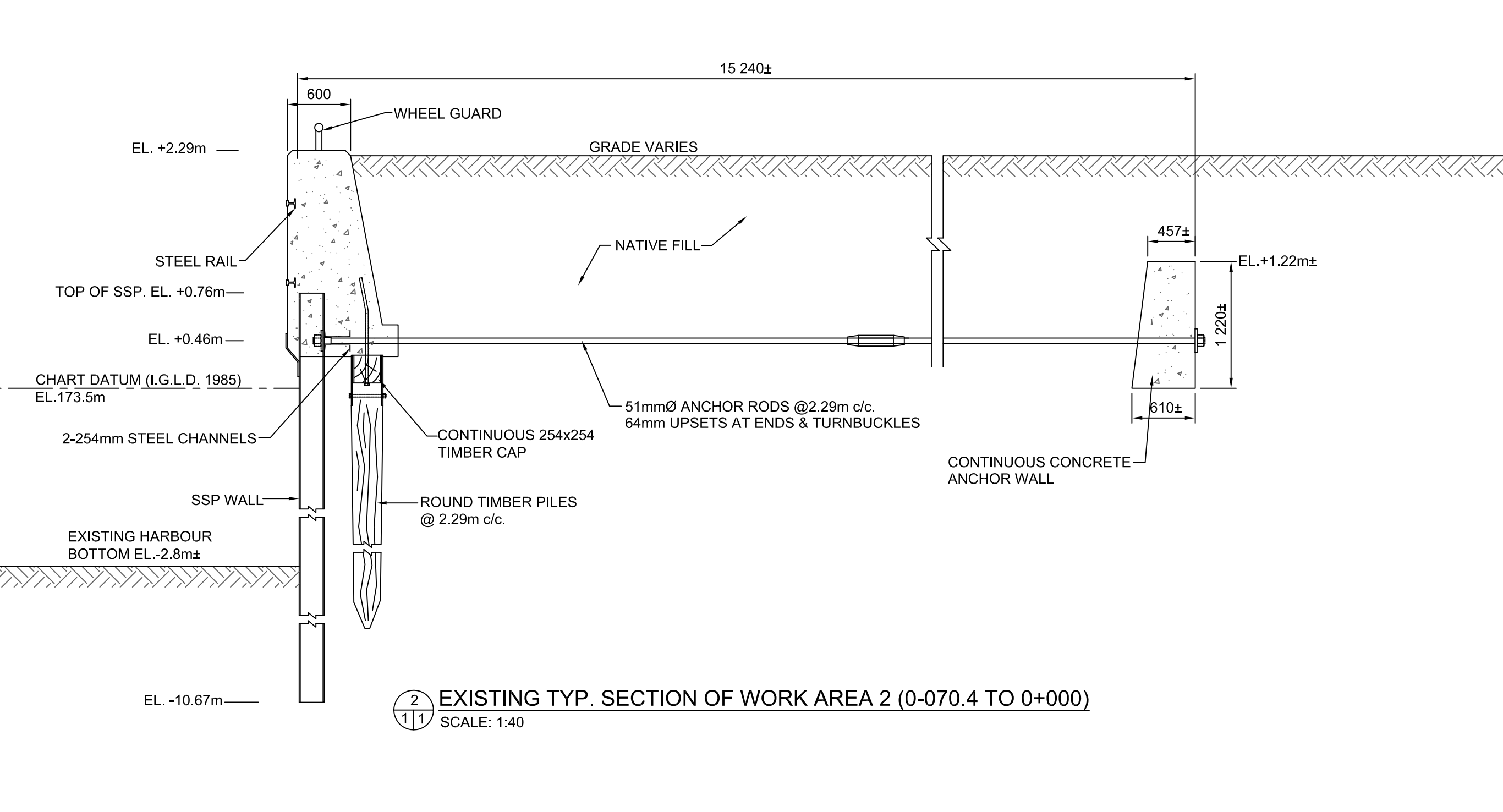
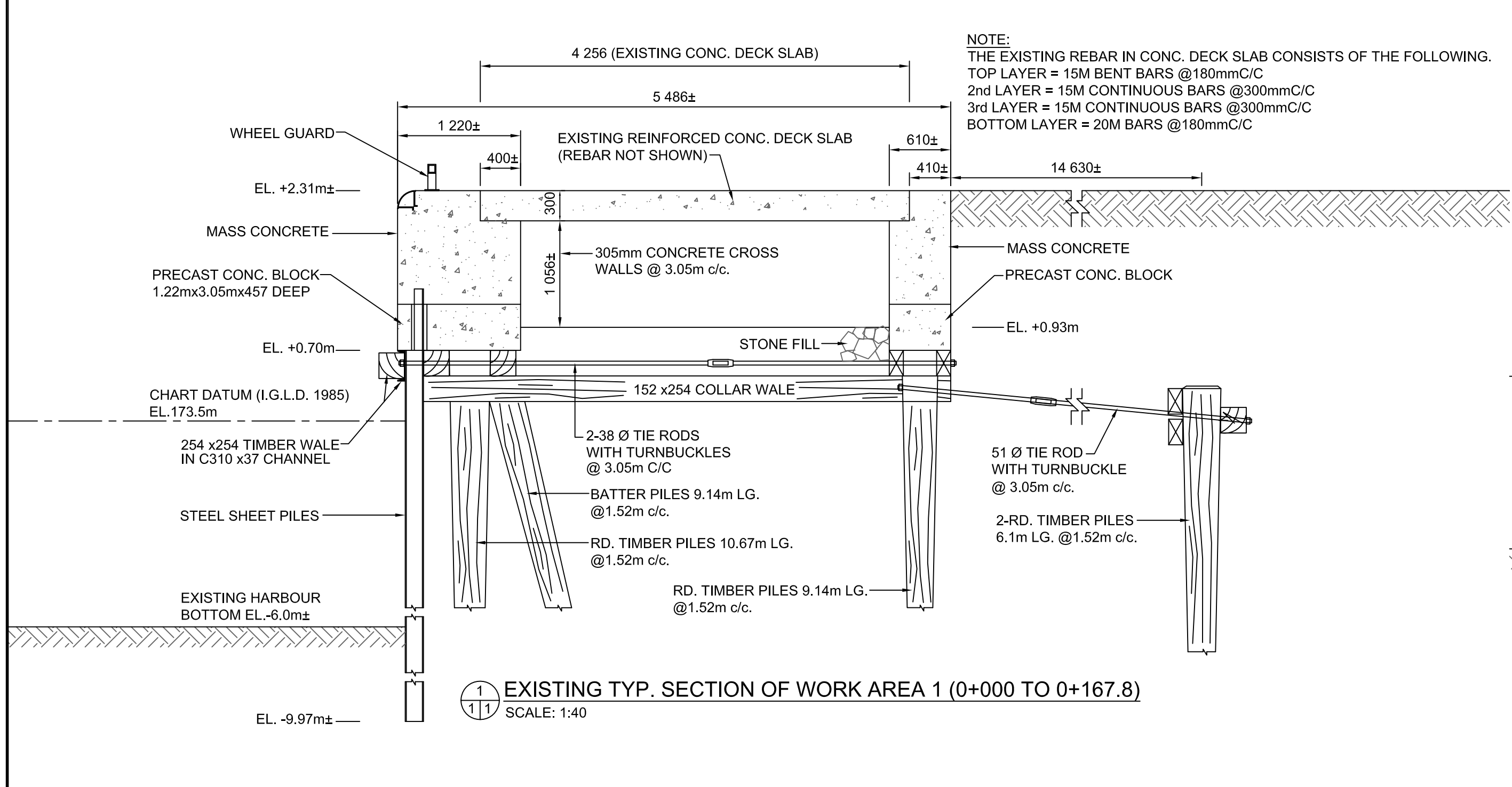
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RIGGS ENGINEERING Ltd.
1240 COMMISSIONERS Rd. WEST
SUITE 205
LONDON, ONTARIO
N6K 1C7
(519)-657-1040
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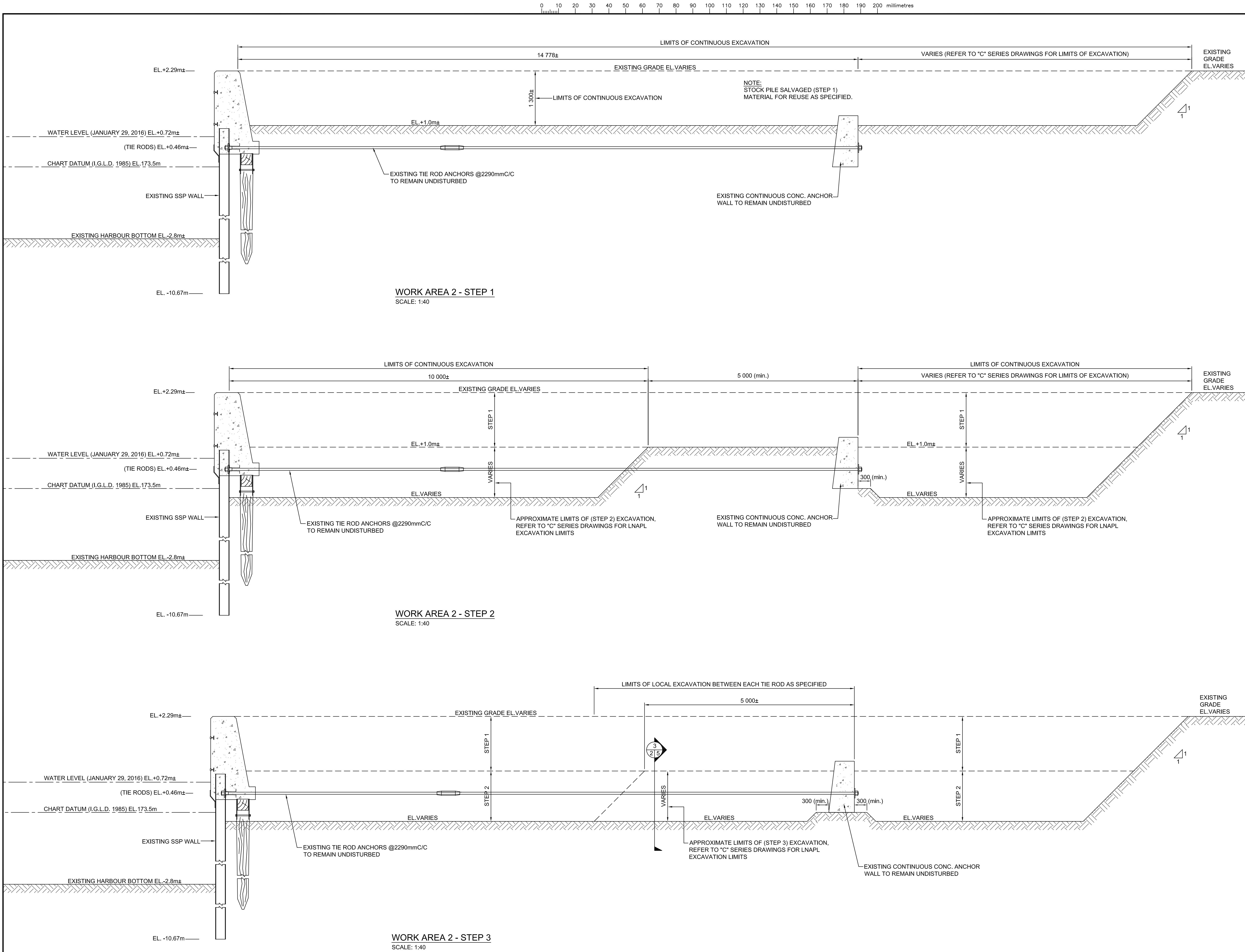
1	ISSUED FOR TENDER	MAR/8/2016
revision		date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately
notify the department representative of all discrepancies.

A	Detail No. No. du détail
B	drawing no. - where detail required dessin no. - où détail exigé
C	drawing no. - where detailed dessin no. - où détaillé



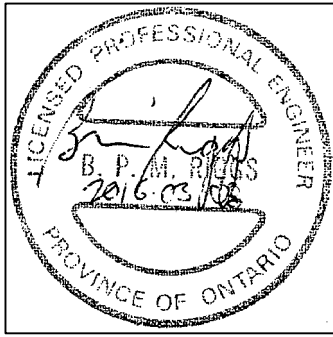
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drawing title titre du dessin	LNAPl REMEDIATION PROJECT	
drawing title titre du dessin	EXISTING CONDITIONS AND REMOVALS	
drawn by dessiné par	A. MARCZENKO	
designed by conc. par	B. RIGGS	
approved by approuvé par	M. WEBER	
bid offre	S. THOMPSON	project manager administrateur de projets
project date date du projet	FEBRUARY 29, 2016	
project no. no. du projet	R.013137.006	
drawing no. dessiné no.	MA-01	



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A	Detail No.
B	No. du détail
C	drawing no. - where detail required
	dessin no. - où détail exigé
	drawing no. - where detailed
	dessin no. - où détaillé

project title
titre du projet
PORT STANLEY ONTARIO

LNAPL REMEDIATION PROJECT

drawing title
titre du dessin
WORK AREA 2
SEQUENCING OF CONSTRUCTION

drawn by
dessiné par
A. MARCZENKO

designed by
conc. par
B. RIGGS

approved by
approuvé par
M. WEBER

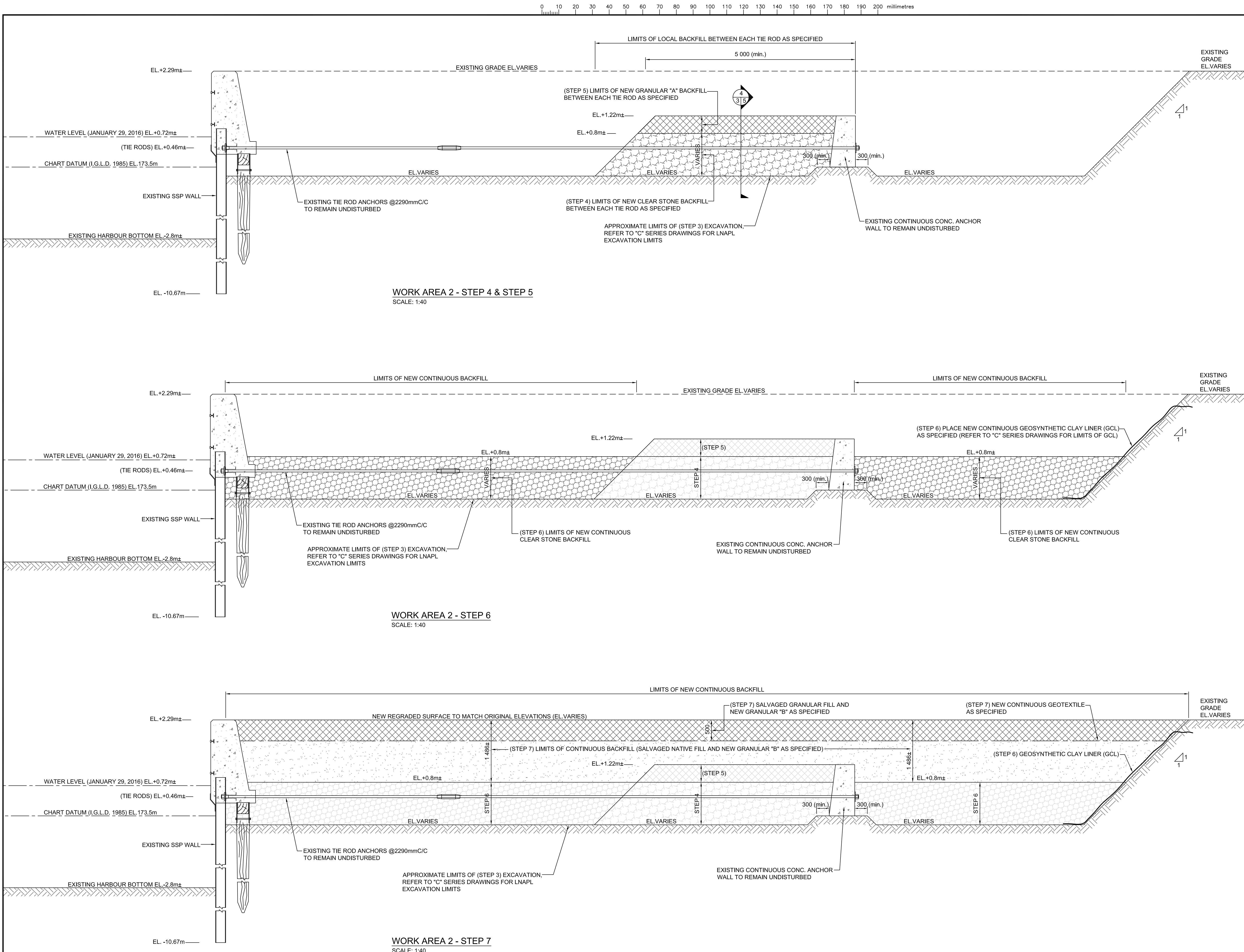
bid
offre
S. THOMPSON

project manager
administrateur
de projets

project date
date du projet
FEBRUARY 29, 2016

project no.
no. du projet
R.013137.006

drawing no.
dessiné no.
MA-02



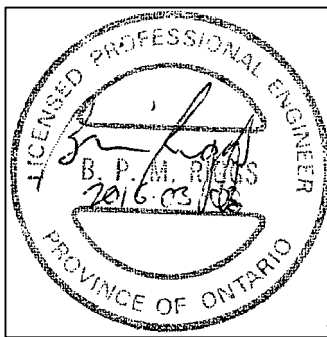
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WORK AREA 2 - STEP 6
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WORK AREA 2 - STEP 7
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	A Detail No.
	No. du détail
	drawing no. - where detail required dessin no. - où détail exigé
	C drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
PORT STANLEY ONTARIO

LNAPL REMEDIATION PROJECT

drawing title
titre du dessin
**WORK AREA 2
SEQUENCING OF CONSTRUCTION**

drawn by
dessiné par
A. MARCZENKO

designed by
conc. par
B. RIGGS

approved by
approuvé par
M. WEBER

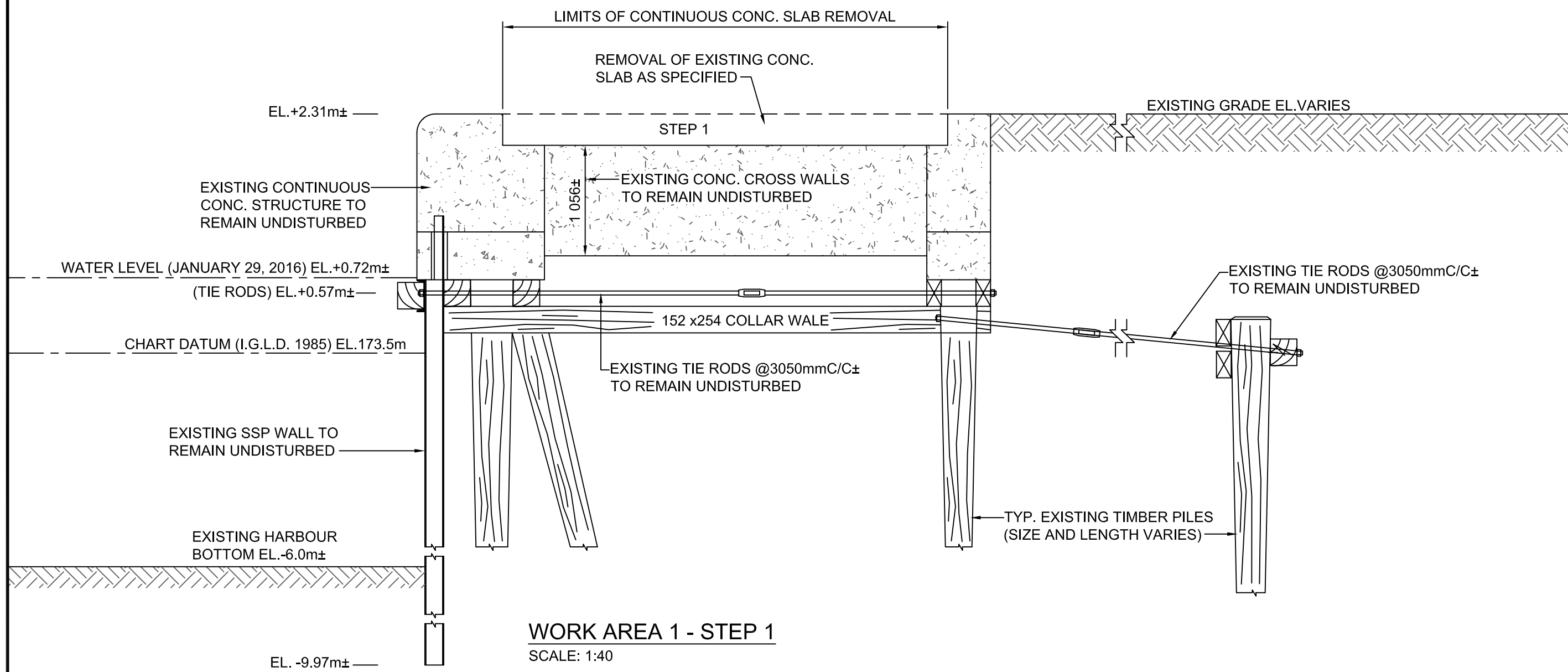
bid
offre
S. THOMPSON project manager
administrateur de projets

project date
date du projet
FEBRUARY 29, 2016

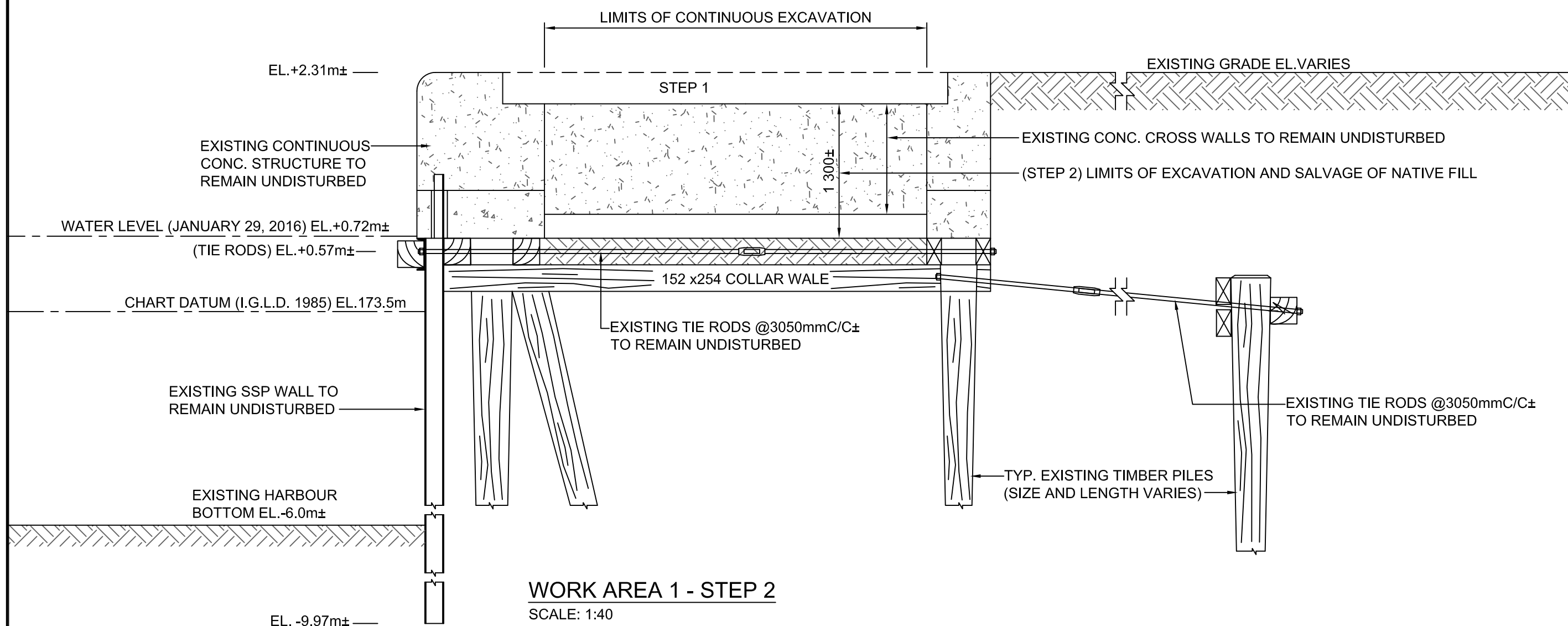
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no. du projet
R.013137.006

drawing no.
dessiné no.
MA-03

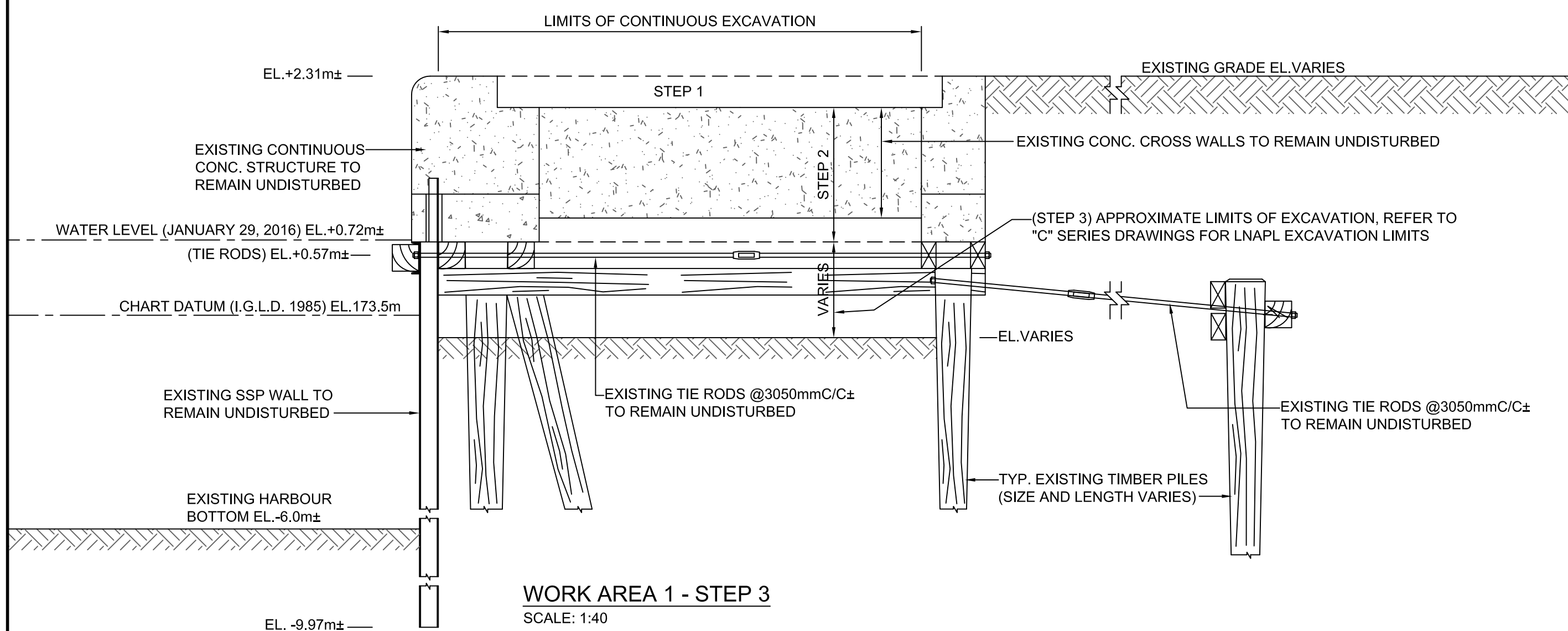
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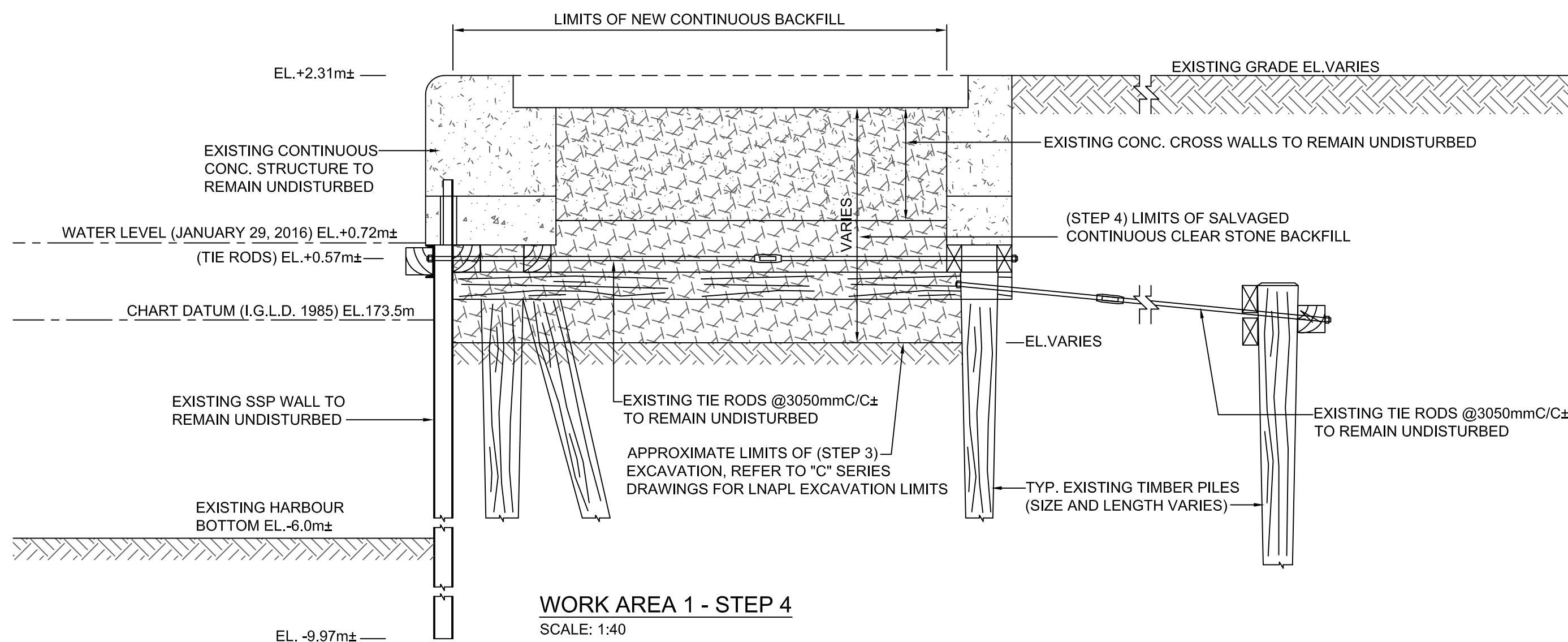
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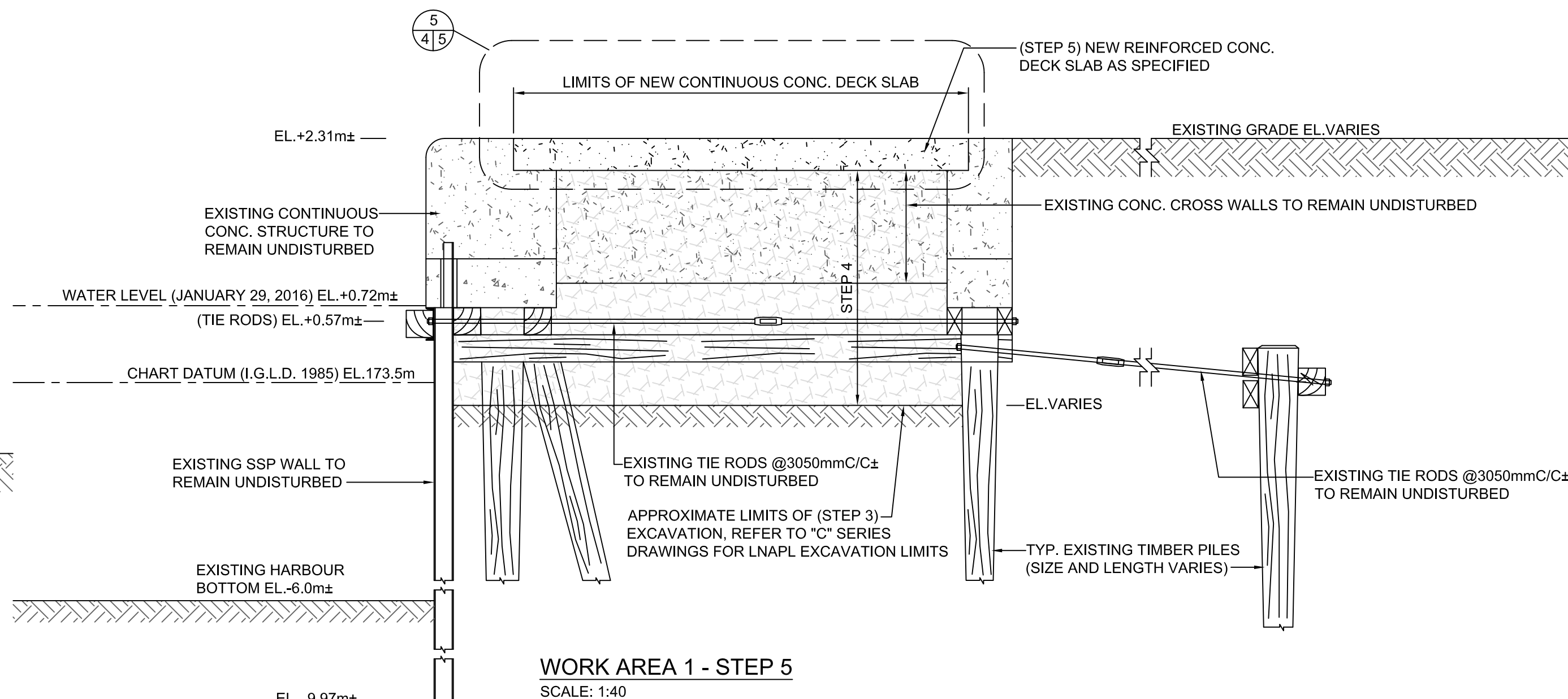
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WORK AREA 1 - STEP 3
SCALE: 1:40



WORK AREA 1 - STEP 4
SCALE: 1:40



WORK AREA 1 - STEP 5
SCALE: 1:40

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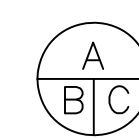


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	A Detail No. No. du détail B drawing no. - where detail required dessin no. - où détail exigé C drawing no. - where detailed dessin no. - où détaillé
---	--

project title
titre du projet
PORT STANLEY ONTARIO

LNAPL REMEDIATION PROJECT

drawing title
titre du dessin
**WORK AREA 1
SEQUENCING OF CONSTRUCTION**

drawn by
dessiné par
A. MARCZENKO

designed by
conc. par
B. RIGGS

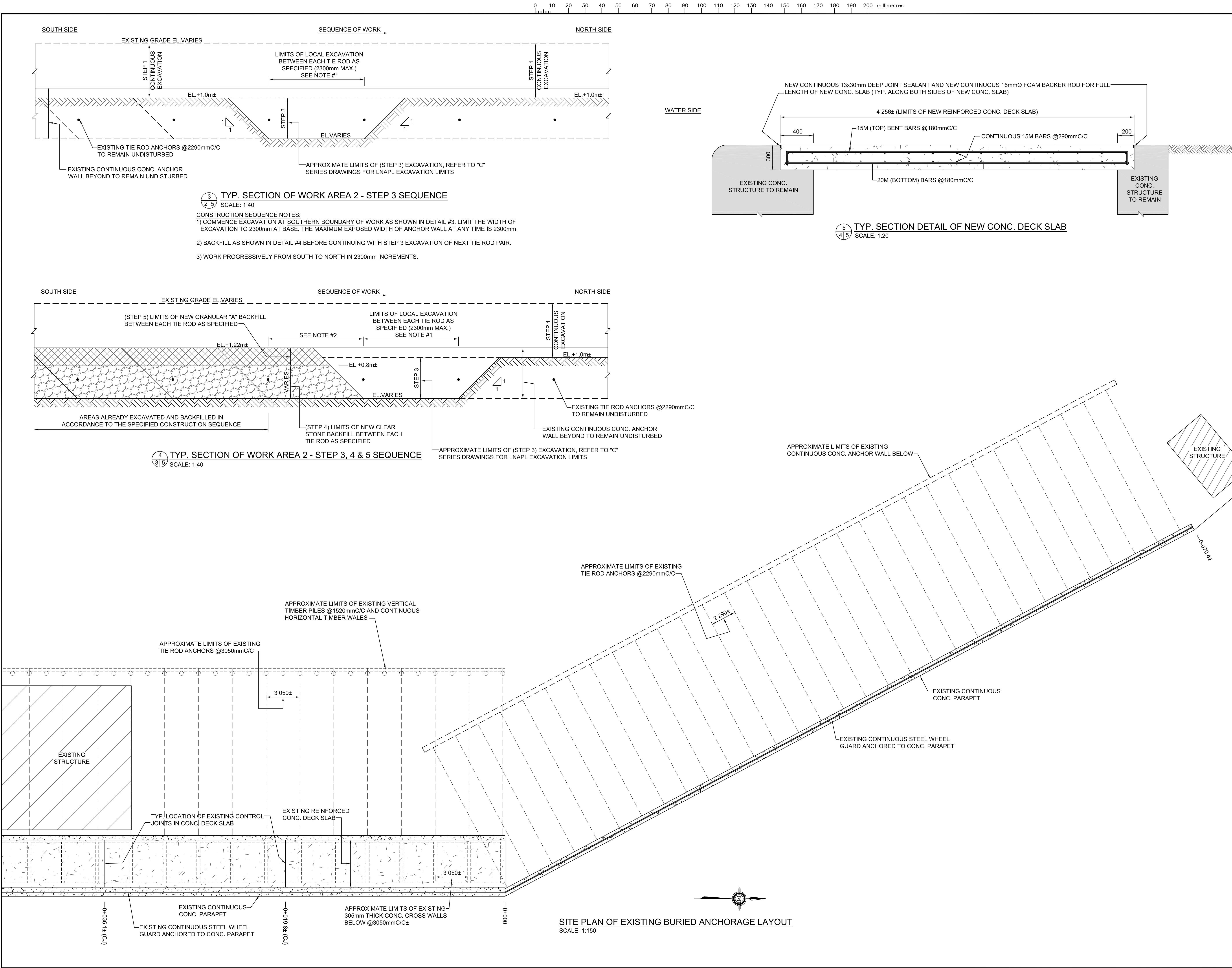
approved by
approuvé par
M. WEBER

bid
offre
S. THOMPSON project manager
administrateur de projets

project date
date du projet
FEBRUARY 29, 2016

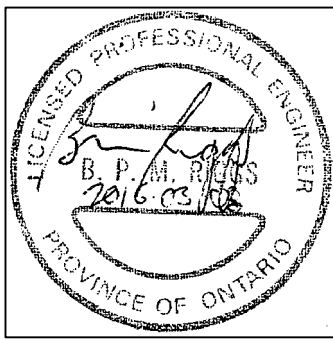
project no.
no. du projet
R.013137.006

drawing no.
dessiné no.
MA-04



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A	Detail No.
B	drawing no. - where detail required
C	drawing no. - where detailed

project title
titre du projet
PORT STANLEY ONTARIO

LNA PL REMEDIATION PROJECT

drawing title
titre du dessin
**TYP. DETAILS
(WORK AREA 1 & WORK AREA 2)**

drawn by
dessiné par
A.MARCZENKO

designed by
conc par
B. RIGGS

approved by
approuvé par
M. WEBER

bid
offre
S. THOMPSON project manager
administrateur de projets

project date
date du projet
FEBRUARY 29, 2016

project no.
no. du projet
R.013137.006

drawing no.
dessiné no.
MA-05