



PORT STANLEY HARBOUR LNAPL REMEDIATION PROJECT

PWGSC Project No. R.013137.006



LIST OF DRAWINGS

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- 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
- C08 WEST PIER - LNAPL DISTRIBUTION PLAN
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- C10 WEST PIER - SITE RESTORATION AND SECTIONS
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- MA-03 WORK AREA 2 SEQUENCING OF CONSTRUCTION
- MA-04 WORK AREA 1 SEQUENCING OF CONSTRUCTION
- MA-05 TYP. DETAILS (WORK AREA 1 & WORK AREA 2)

Engineer Stamp



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

REFERENCE:

Based on Sept. 2013 Google Image

project title titre du projet

**LNAPL REMEDIATION
PROGRAM**

PORT STANLEY HARBOUR

drawing title titre du dessin

COVER SHEET

designed by C.G. conçu par

drawn by I.S.Z. dessiné par

approved by M.W. approuvé par

PWGSC Project Manager Administrateur de Projets TPSCC

scale échelle sheet feuille

project no. R.013137.006 project no. C01

date FEBRUARY 2016 date or 17

ISSUED FOR TENDER



LEGEND:
 PROPERTY LIMITS
 LIMITS OF LNAPL WORK AREA



0 20 50 metres
 SCALE 1:1250a

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

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 / conçu par: C.G.
 drawn by / dessiné par: I.S.Z.
 approved by / approuvé par: M.W.
 PWSC Project Manager / Administrateur de Projets TPSCC

scale / échelle: 1:1250
 project no. / projet no.: R.013137.006
 date / date: FEBRUARY 2016
 sheet / feuille: C02 of 17

Mar 09, 2016 - 10:38am - USER izibo
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Mar 09, 2016 - 10:48am - USER iziba
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ISSUED FOR TENDER

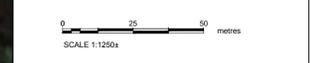


LEGEND:

	PROPERTY LIMITS
	LIMITS OF LNAPL WORK AREA
	CONSTRUCTION LIMITS
	EXISTING FENCE



REVISIONS	DESCRIPTION	DATE
2	ISSUED FOR TENDER	MAR/9/2016
1	70% SET	JAN/22/2016



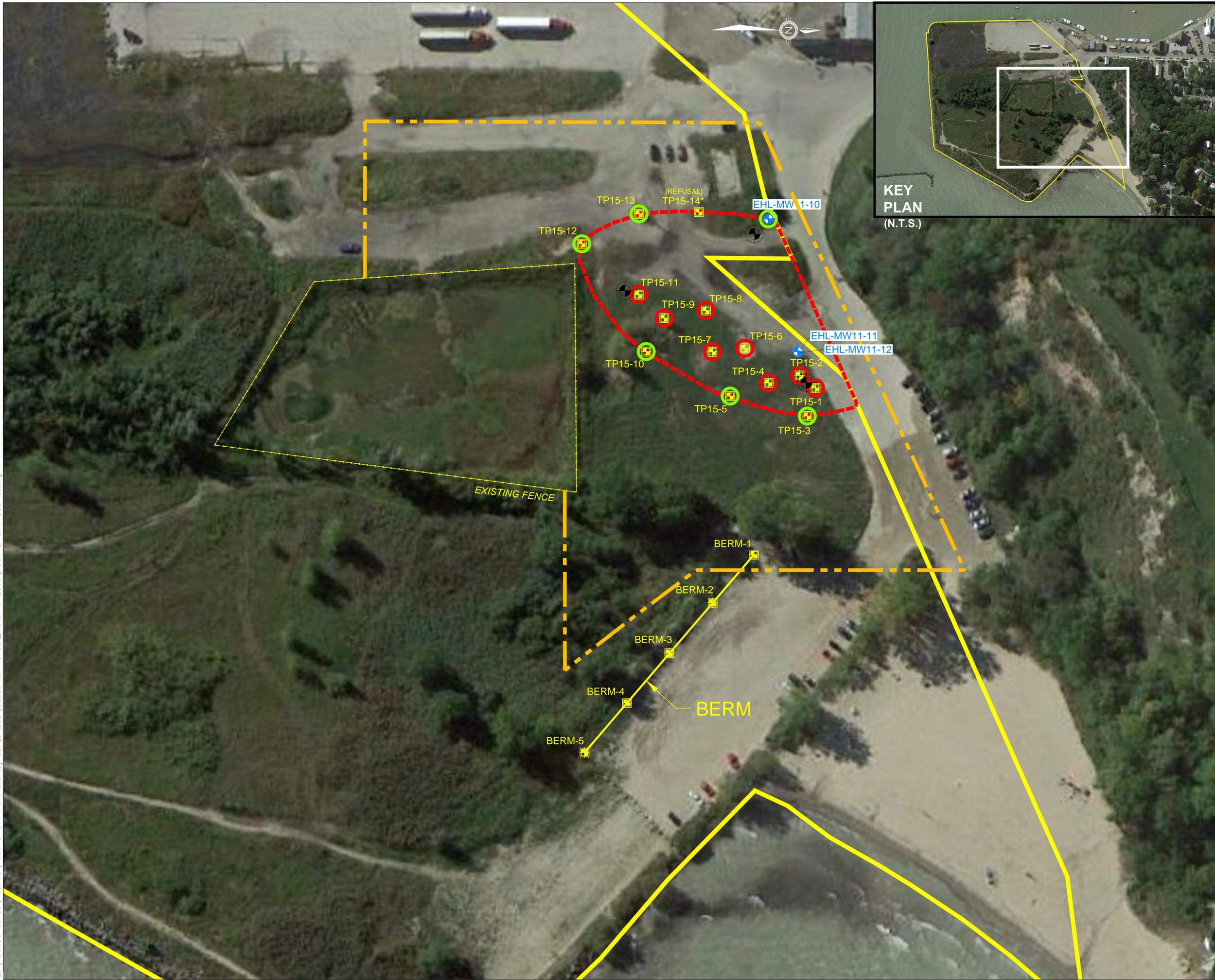
project title / titre du projet
LNAPL REMEDIATION PROGRAM

PORT STANLEY HARBOUR - EAST HEADLANDS

drawing title / titre du dessin
EAST HEADLANDS EXISTING CONDITIONS

designed by / conçu par	C.G.
drawn by / dessiné par	I.S.Z.
approved by / approuvé par	M.W.
PWSC Project Manager / Administrateur de Projets TPSGC	
scale / échelle	1:750
project no. / projet no.	R.013137.006
date / date	FEBRUARY 2016
sheet / feuille	C03 OF 17

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KEY PLAN
(N.T.S.)



ISSUED FOR TENDER

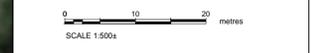


LEGEND:

- 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)



REVISIONS	DESCRIPTION	DATE
2	ISSUED FOR TENDER	MAR/9/2016
1	70% SET	JAN/22/2016

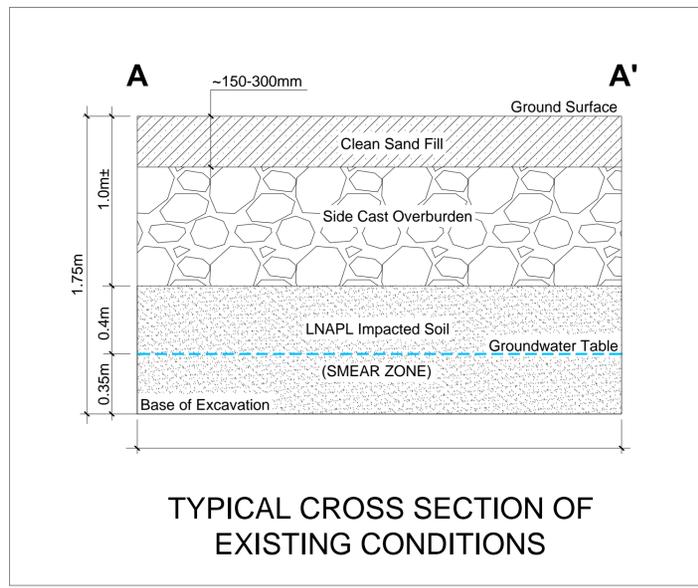
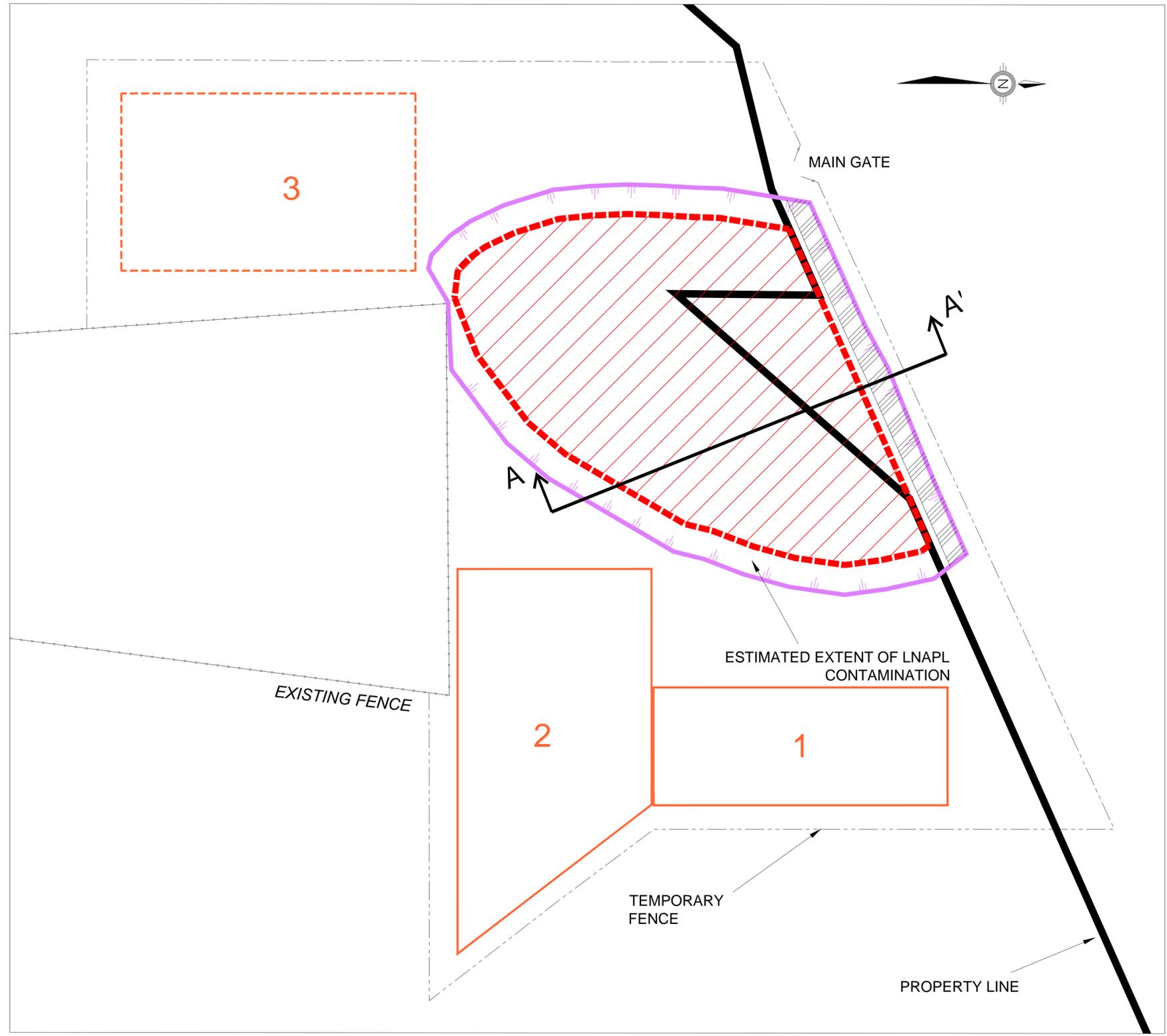


project title / titre du projet
LNAPL REMEDIATION PROGRAM
 PORT STANLEY HARBOUR - EAST HEADLANDS

drawing title / titre du dessin
EAST HEADLANDS LNAPL DISTRIBUTION PLAN

designed by / conçu par	C.G.	drawn by / dessiné par	I.S.Z.	approved by / approuvé par	M.W.
PWSC Project Manager / Administrateur de Projets TPSC		scale / échelle	1:500	sheet / feuille	C04
project no. / projet no.	R.013137.006	date	FEBRUARY 2016	of / de	17

ISSUED FOR TENDER



- 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



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

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

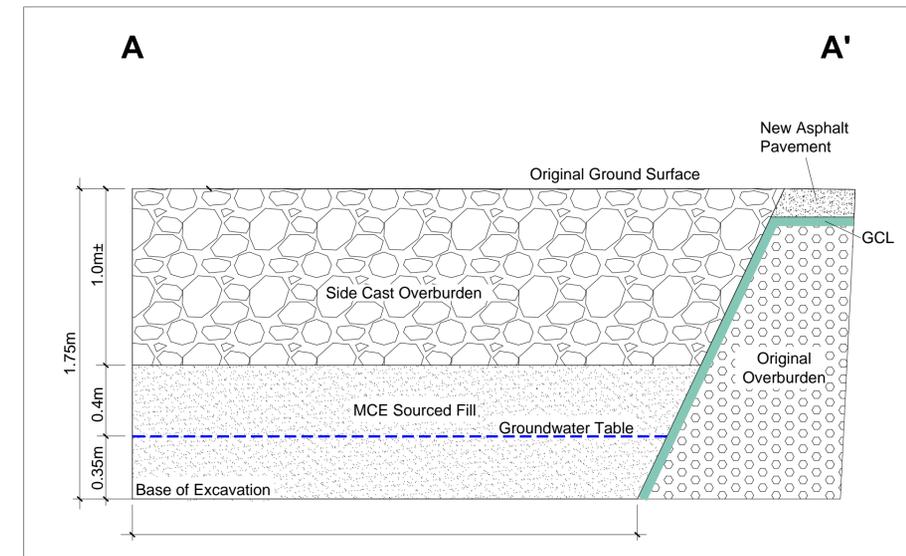
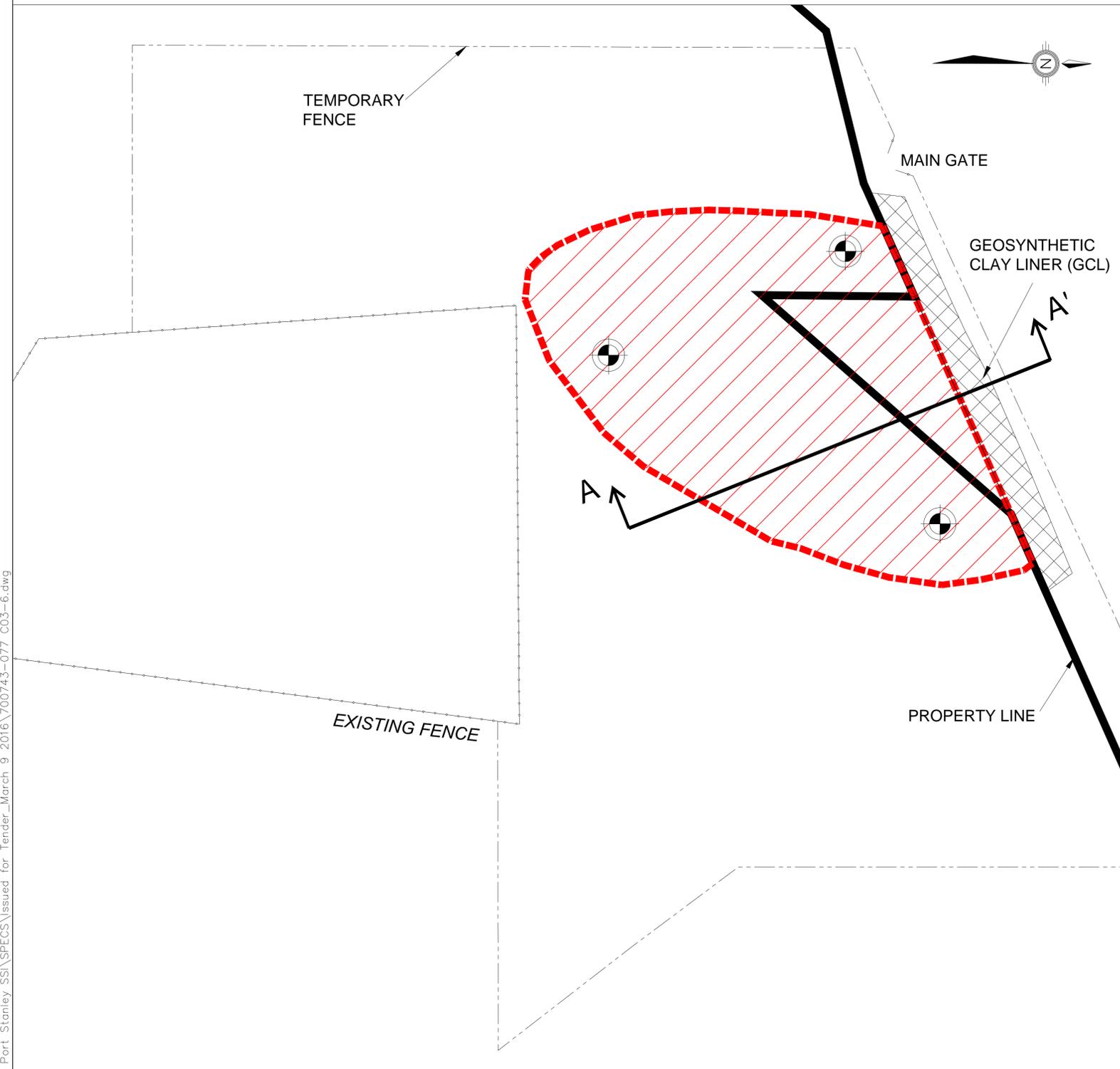
drawing title / titre du dessin
EAST HEADLANDS REMEDIATION PLAN AND CROSS SECTION

designed by / conçu par: C.G.
drawn by / dessiné par: I.S.Z.
approved by / approuvé par: M.W.
PWOSC Project Manager / Administrateur de Projets TPSCC

scale / échelle: 1:500
sheet / feuille: C05 OF 17
date: FEBRUARY 2016

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ISSUED FOR TENDER



BACKFILLING SECTION

- 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.



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 - EAST HEADLANDS

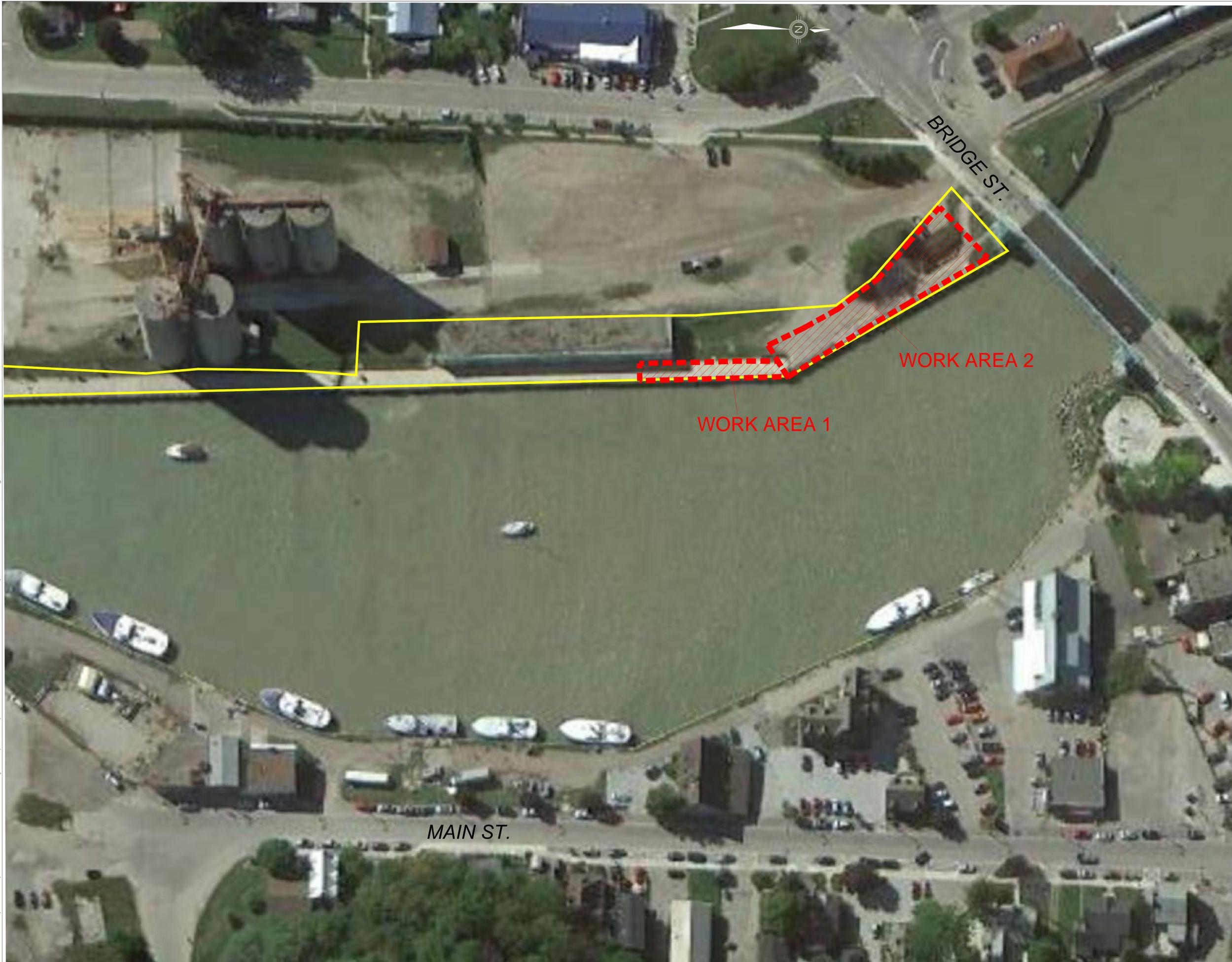
drawing title / titre du dessin

**EAST HEADLANDS
SITE RESTORATION PLAN
AND SECTION**

designed by / conçu par	C.G.
drawn by / dessiné par	I.S.Z.
approved by / approuvé par	M.W.
PM/SC Project Manager / Administrateur de Projets TP/SCC	
scale / échelle	1:400
sheet / feuille	C06
project no. / projet no.	R.013137.006
date / date	FEBRUARY 2016
	OF 17

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LEGEND:

WEST PIER PROPERTY LIMITS
 LIMITS OF LNAPL WORK AREA



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

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 conçu par

C.G.

drawn by dessinée par

I.S.Z.

approved by approuvé par

M.W.

PWSC Project Manager Administrateur de Projets TPSGC

scale échelle sheet feuille

1:500

project no. projet no. **C07**

R.013137.006

date date **OF 17**

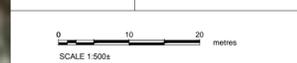
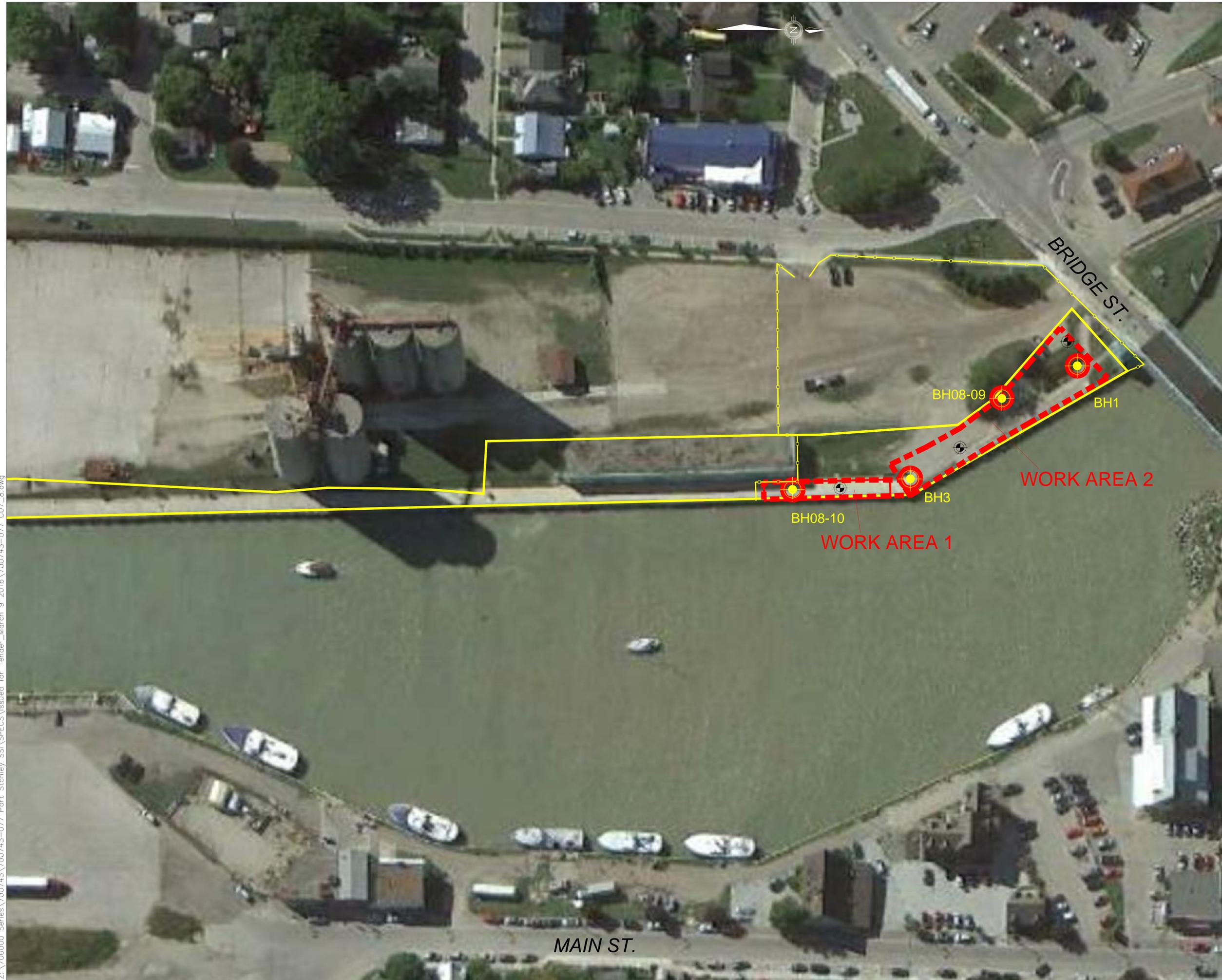
FEBRUARY 2016

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)



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

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.

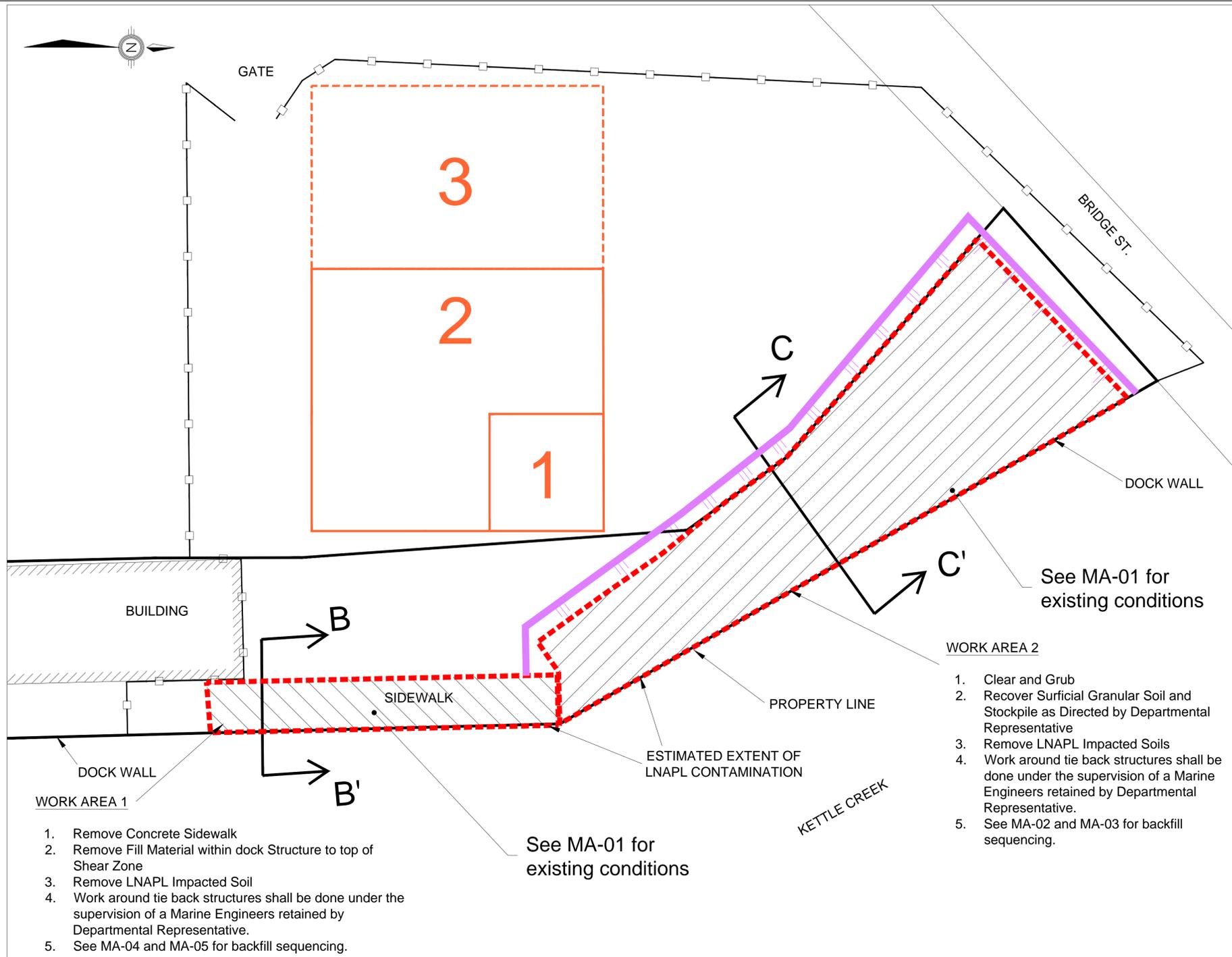
PWSSC Project Manager / Administrateur de Projets TPSGC

scale / échelle: 1:500
 sheet / feuille: C08 OF 17

project no. / projet no.: R.013137.006
 date / date: FEBRUARY 2016

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ISSUED FOR TENDER



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

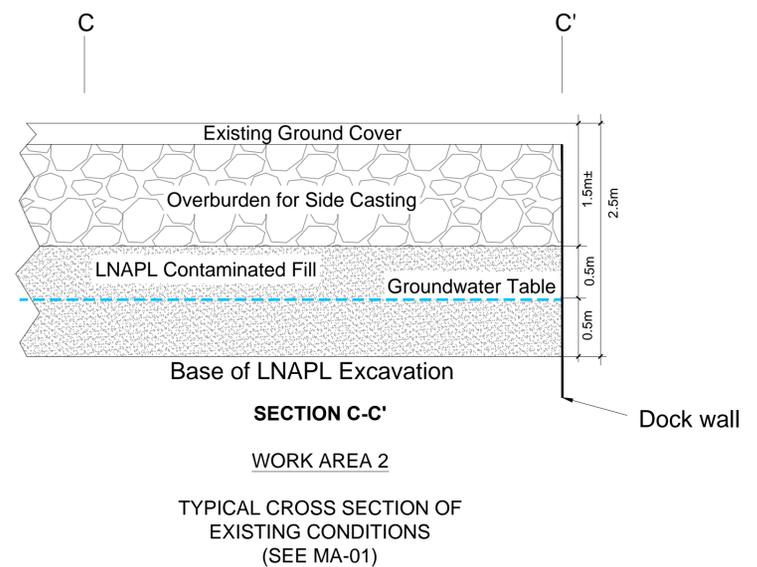
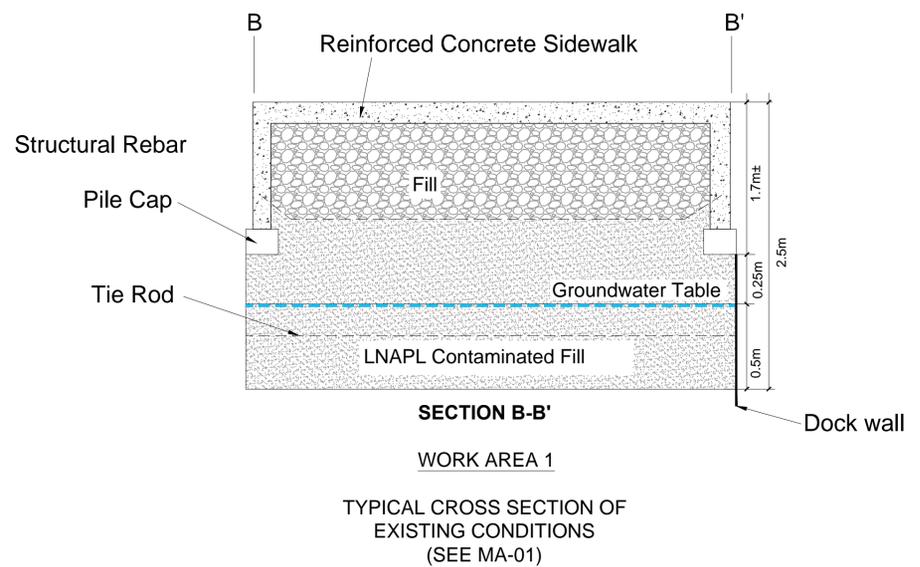


- WORK AREA 2**
1. Clear and Grub
 2. Recover Surficial Granular Soil and Stockpile as Directed by Departmental Representative
 3. Remove LNAPL Impacted Soils
 4. Work around tie back structures shall be done under the supervision of a Marine Engineers retained by Departmental Representative.
 5. See MA-02 and MA-03 for backfill sequencing.

- WORK AREA 1**
1. Remove Concrete Sidewalk
 2. Remove Fill Material within dock Structure to top of Shear Zone
 3. Remove LNAPL Impacted Soil
 4. Work around tie back structures shall be done under the supervision of a Marine Engineers retained by Departmental Representative.
 5. See MA-04 and MA-05 for backfill sequencing.



REVISIONS	DESCRIPTION	DATE
2	ISSUED FOR TENDER	MAR/9/2016
1	70% SET	JAN/22/2016



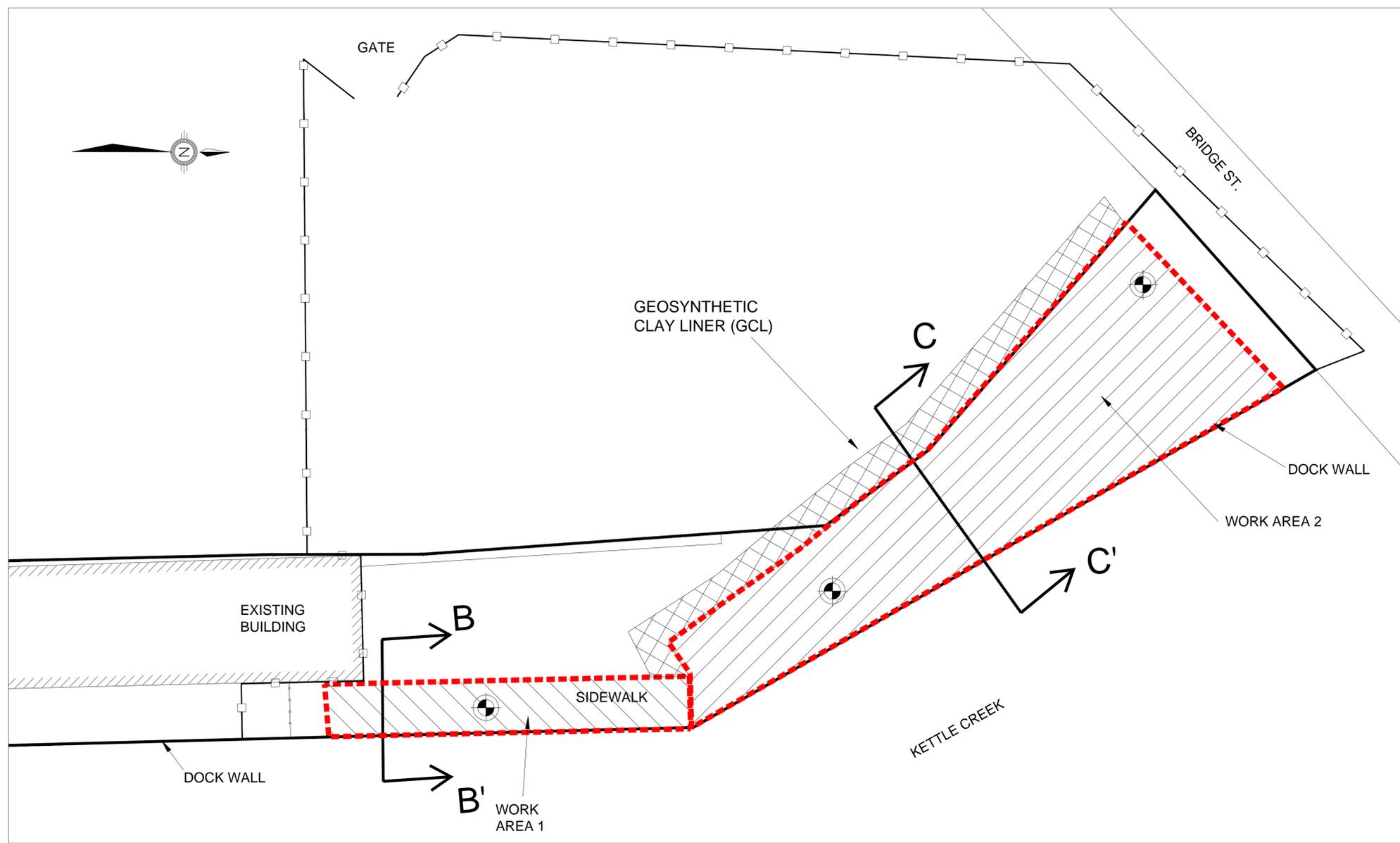
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project title	titre du projet		
LNAPL REMEDIATION PROGRAM			
PORT STANLEY HARBOUR - WEST PIER			
drawing title	titre du dessin		
WEST PIER REMEDATION PLAN AND CROSS SECTION			
designed by	C.G.	conçu par	
drawn by	I.S.Z.	dessiné par	
approved by	M.W.	approuvé par	
PWSC Project Manager		Administrateur de Projets IPSCC	
scale	1:250	échelle	feuille
project no.	R.013137.006	projet no.	C09
date	FEBRUARY 2016	date	of 17

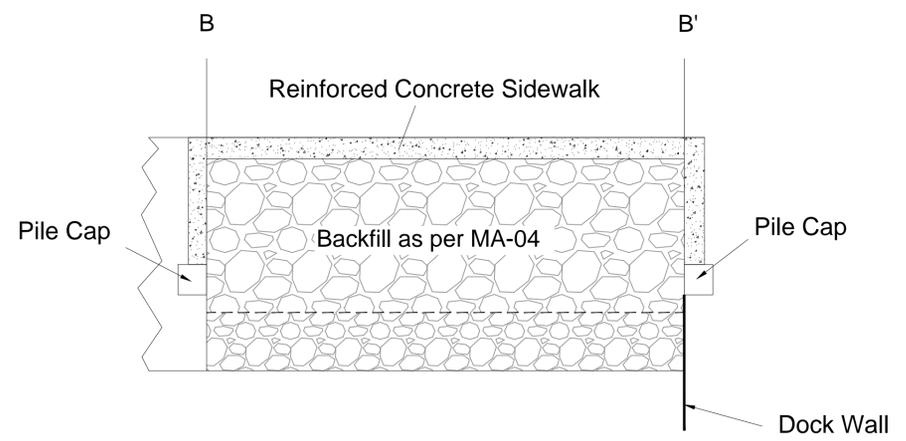
ISSUED FOR TENDER



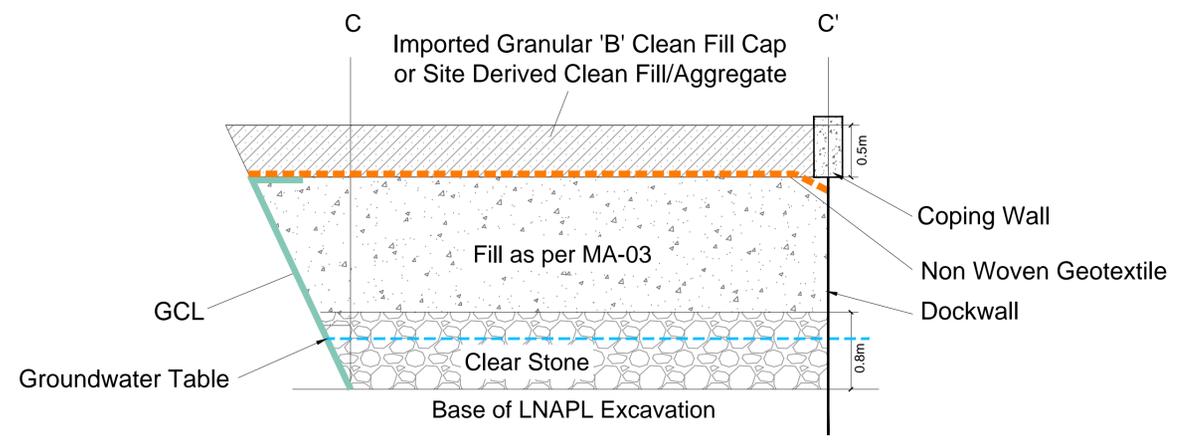
- LEGEND:**
- LIMITS OF REMEDIAL WORK
 - LOCATION OF NEW GROUNDWATER MONITORING WELL INSTALLATIONS (BY OTHERS)
 - GCL
 - AREA OF GEOSYNTHETIC CLAY LINER (GCL)
 - NON WOVEN GEOTEXTILE
 - LIMITS OF LNAPL CONTAMINATION - WORK AREA 1
 - LIMITS OF LNAPL CONTAMINATION - WORK AREA 2



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



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



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

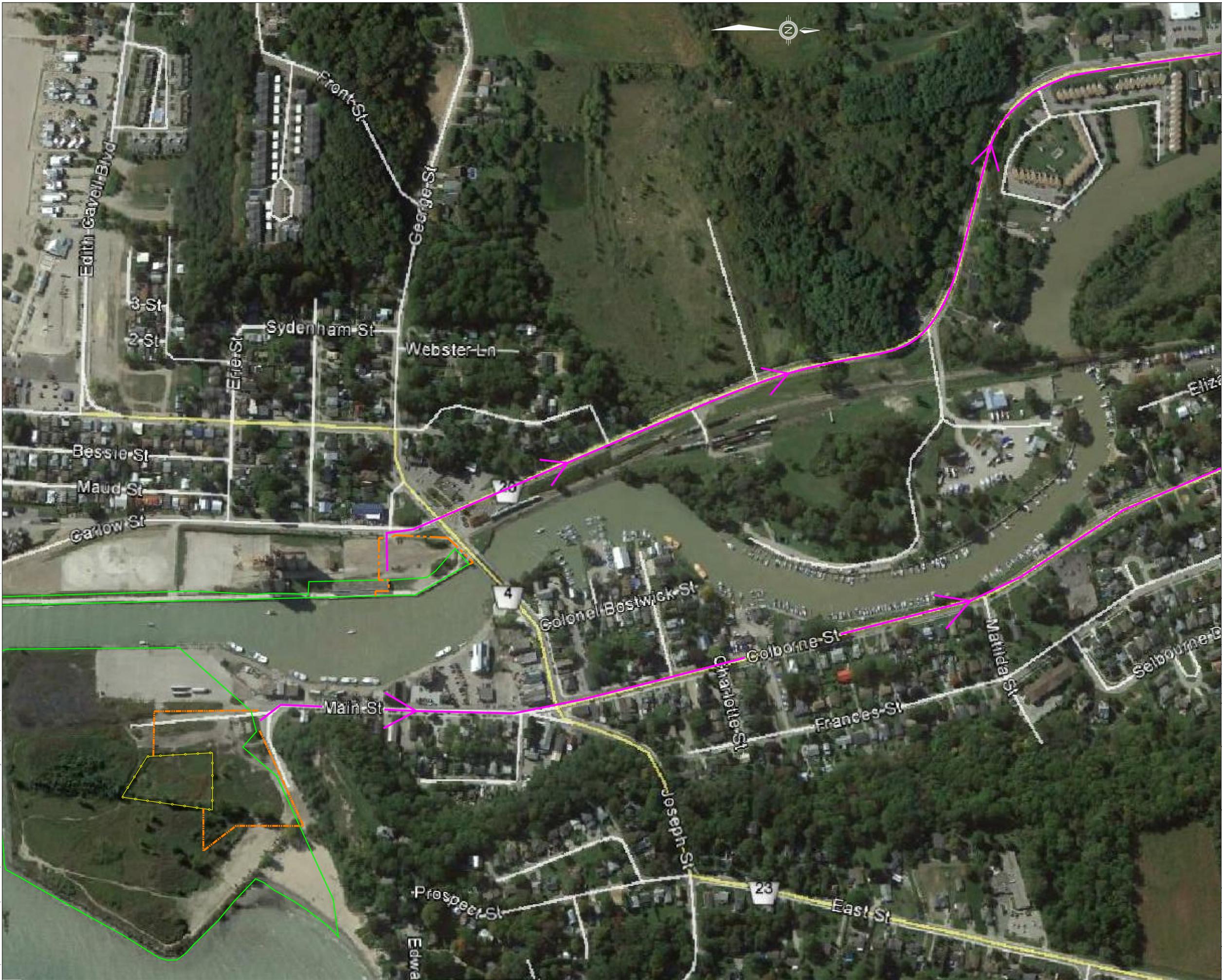
project title: **LNAPL REMEDIATION PROGRAM**
PORT STANLEY HARBOUR - WEST PIER

drawing title: **WEST PIER SITE RESTORATION PLAN AND SECTIONS**

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 TPSCC	
scale	1:500	echelle	feuille
project no.	R.013137.006	project no.	C10
date	FEBRUARY 2016	date	OF 17

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ISSUED FOR TENDER



LEGEND:

- PROPERTY LIMITS
- SOIL MOVEMENT ROUTE
- CONSTRUCTION LIMITS

Engineer Stamp



REVISIONS	DESCRIPTION	DATE
2	ISSUED FOR TENDER	MAR/9/2016
1	70% 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: L NAPL REMEDIATION PROGRAM
 titre du projet: L NAPL REMEDIATION PROGRAM

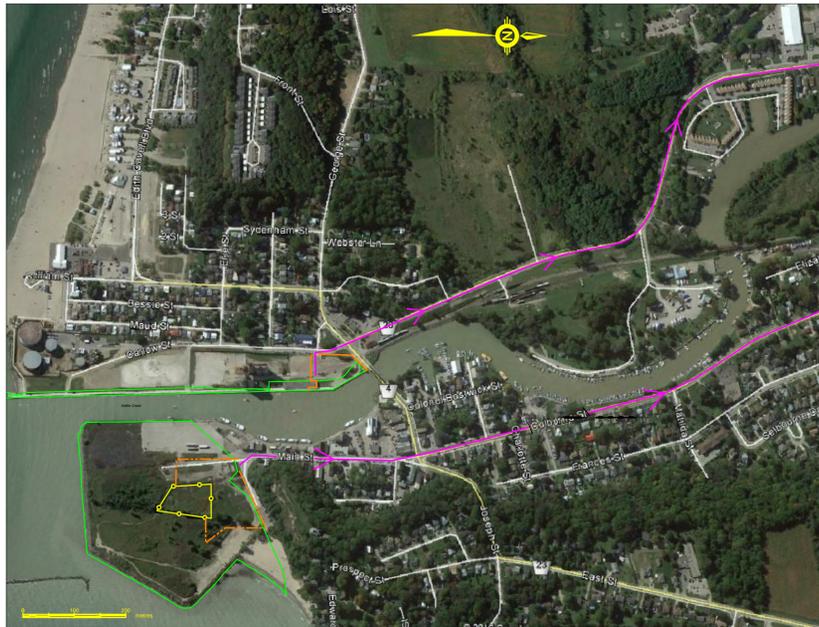
drawing title: EAST HEADLANDS AND WEST PIER SITE ACCESS AND SOIL MOVEMENT PLAN
 titre du dessin: EAST HEADLANDS AND WEST PIER SITE ACCESS AND SOIL MOVEMENT PLAN

designed by	C.G.	conçu par	
drawn by	I.S.Z.	dessiné par	
approved by	M.W.	approuvé par	
PWSC Project Manager		Administrateur de Projets TPSGC	

scale	1:2000	échelle	
project no.	R.013137.006	projet no.	C11
date	FEBRUARY 2016	date	OF 17

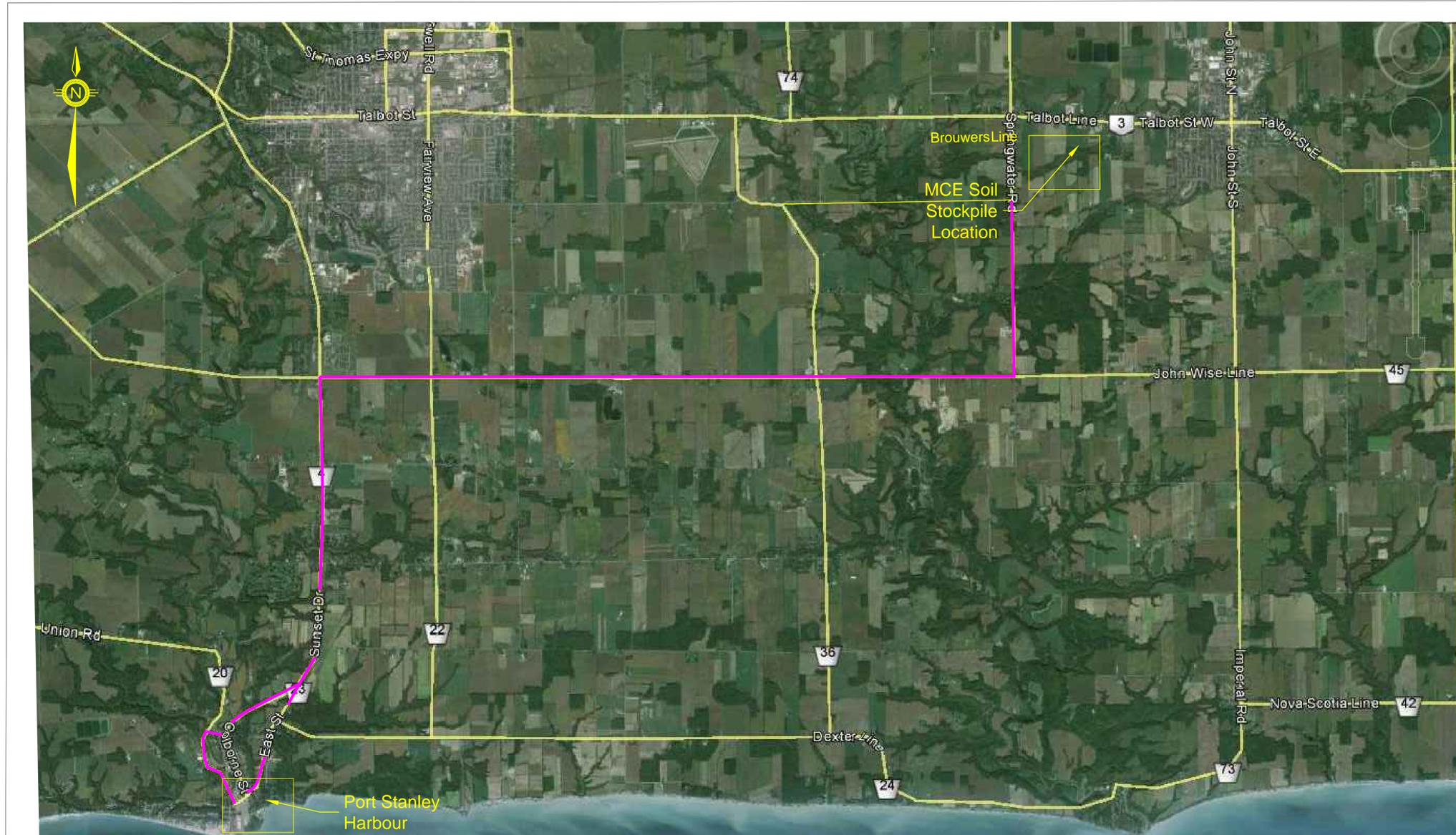
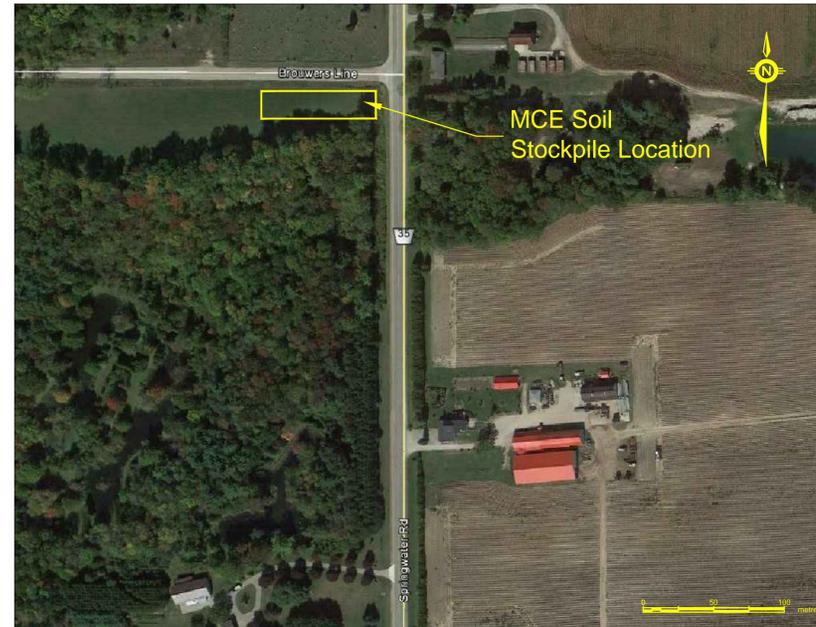
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PORT STANLEY TRAFFIC PLAN



ROUTE PLAN

SITE LOCATION PLAN



ISSUED FOR TENDER



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: **LNAPL REMEDIATION PROGRAM**
 site du projet: **PORT STANLEY HARBOUR - WEST PIER**

drawing title: **MCE BORROW SOURCE LOCATION PLAN**

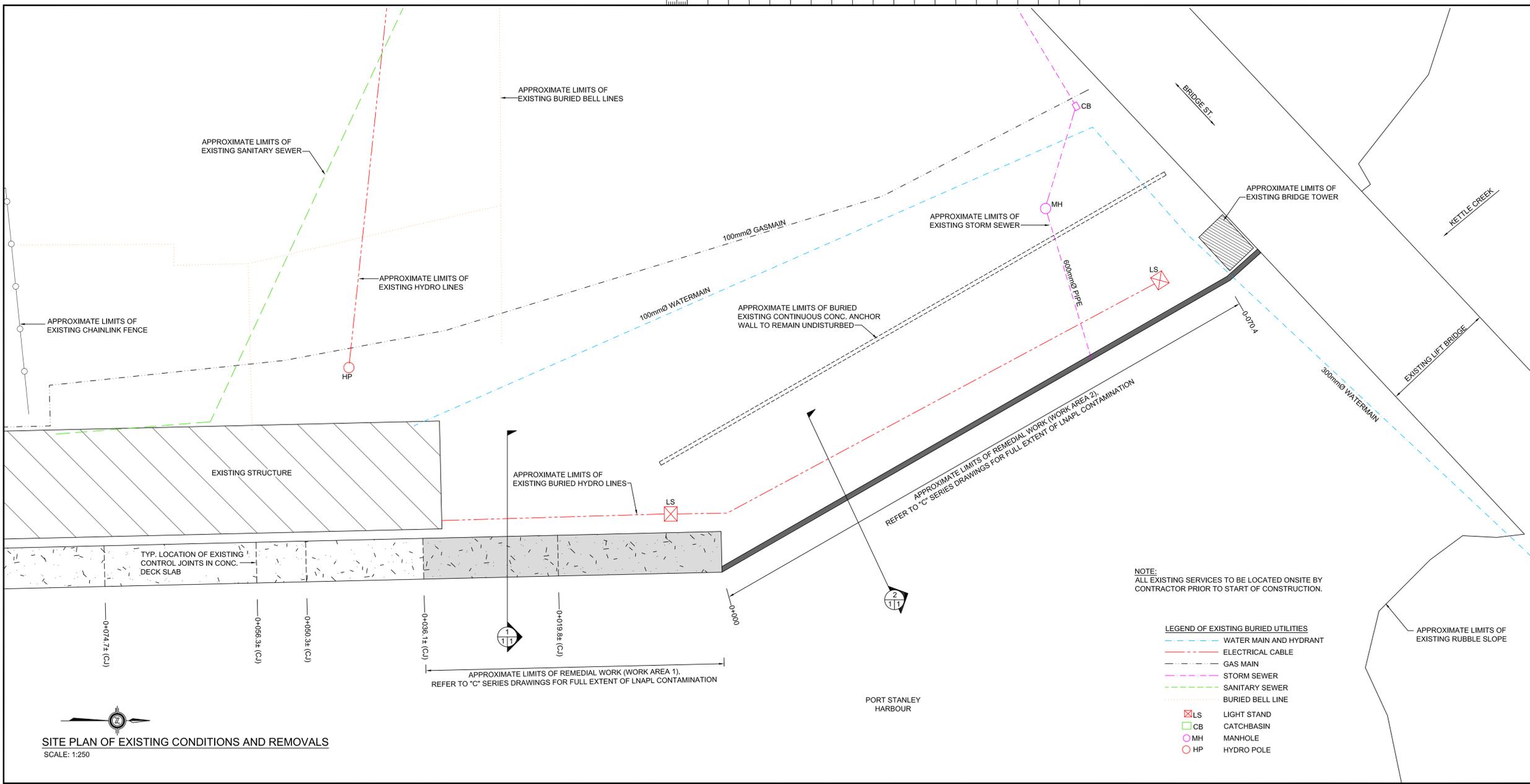
designed by: C.G. / conçu par
 drawn by: I.S.Z. / dessiné par
 approved by: M.W. / approuvé par
 PWSC Project Manager / Administrateur de Projets TPSGC

scale: AS SHOWN / échelle
 project no.: R.013137.006 / projet no.: **C12**
 date: FEBRUARY 2016 / date: **OF 17**

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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

RIGGS ENGINEERING
 RIGGS ENGINEERING Ltd.
 1240 COMMISSIONERS Rd. WEST
 SUITE 205
 LONDON, ONTARIO
 N6K 1C7
 (519)-657-1040
 WWW.RIGGSENGINEERING.COM

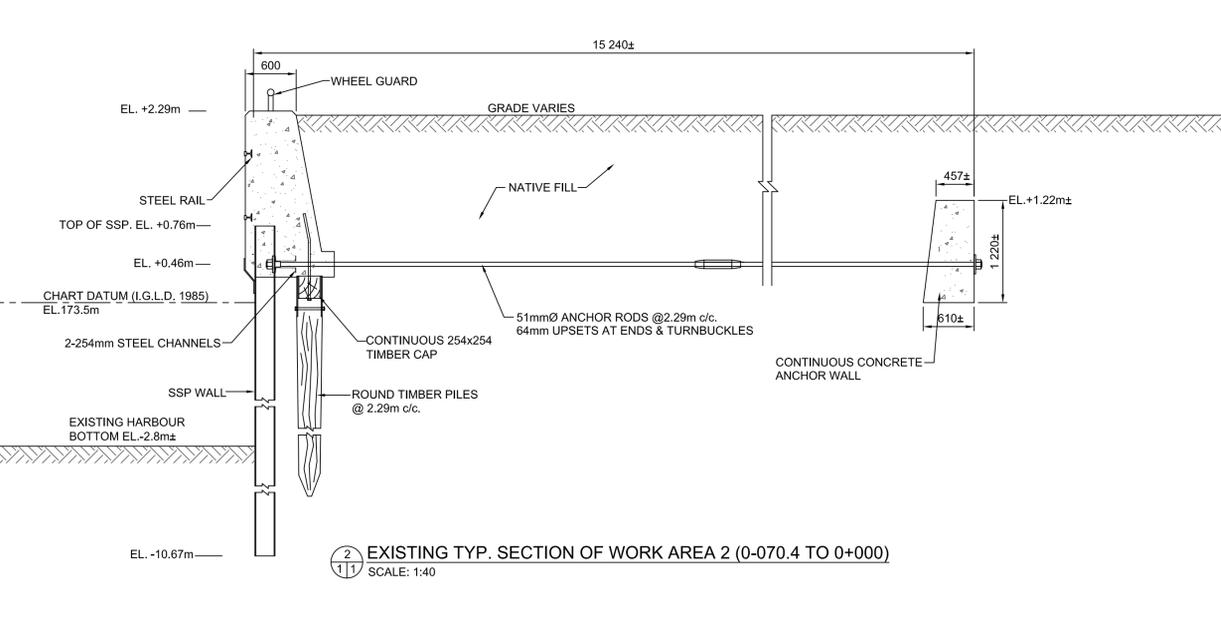
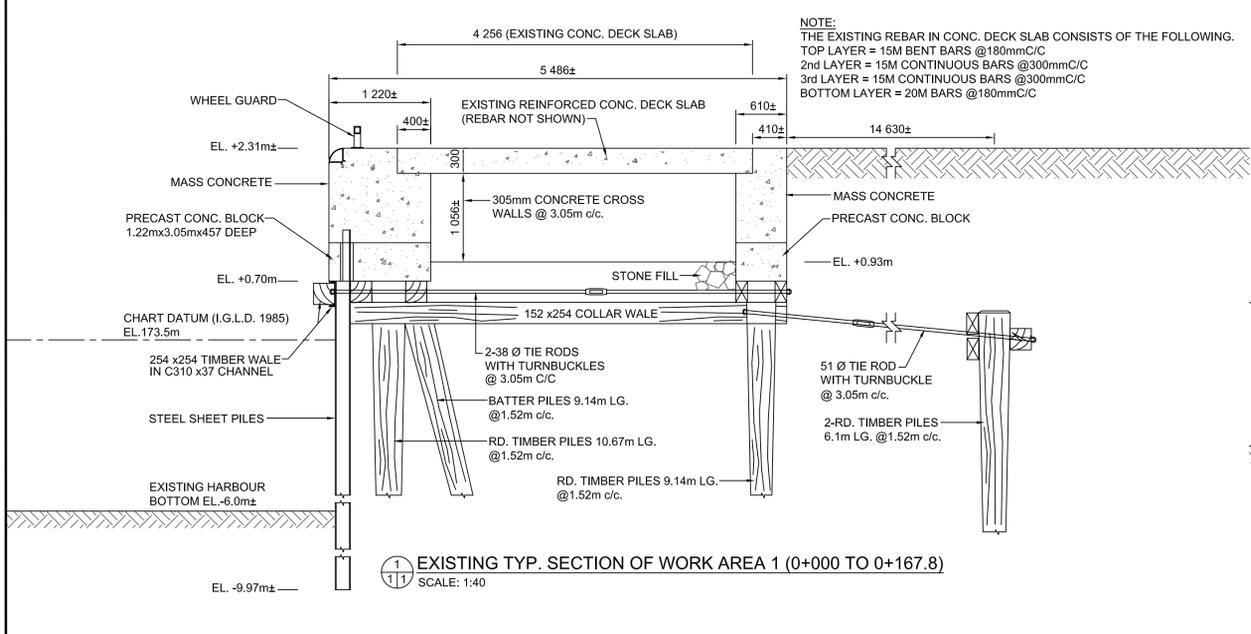


SITE PLAN OF EXISTING CONDITIONS AND REMOVALS
 SCALE: 1:250

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



project title / titre du projet: PORT STANLEY ONTARIO

LNAPL REMEDIATION PROJECT

drawing title / titre du dessin: EXISTING CONDITIONS AND REMOVALS

drawn by / dessiné par: A.MARCZENKO

designed by / conçu par: B. RIGGS

approved by / approuvé par: M. WEBER

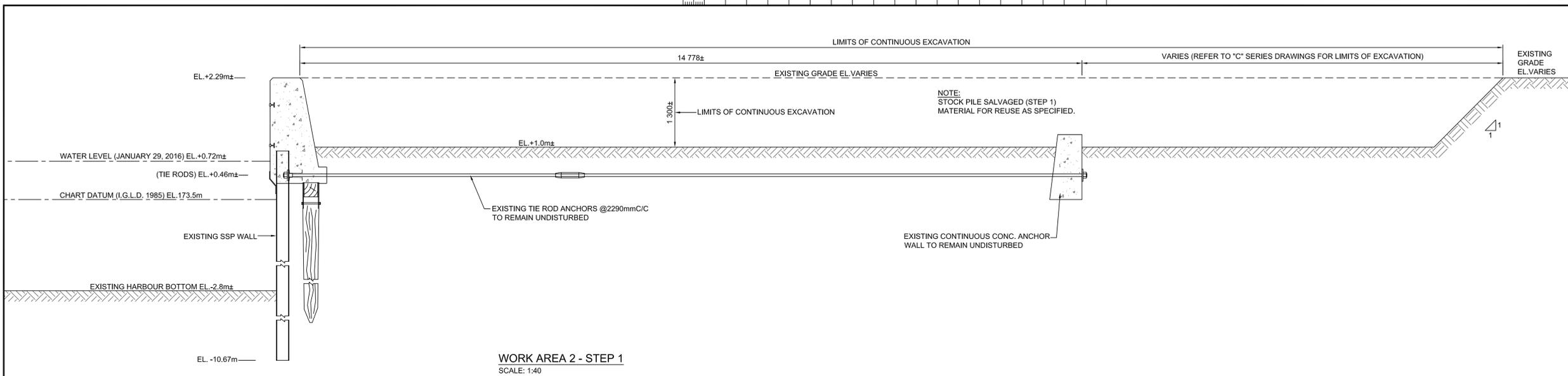
bid offre: S. THOMPSON project manager / administrateur de projets

project date / date du projet: FEBRUARY 29, 2016

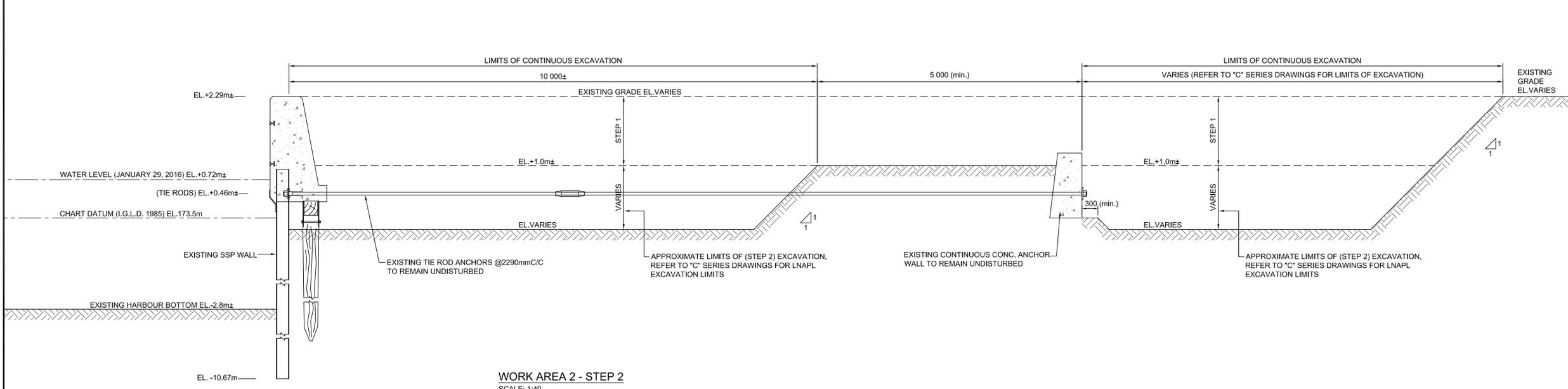
project no. / no. du projet: R.013137.006

drawing no. / dessin no.: MA-01

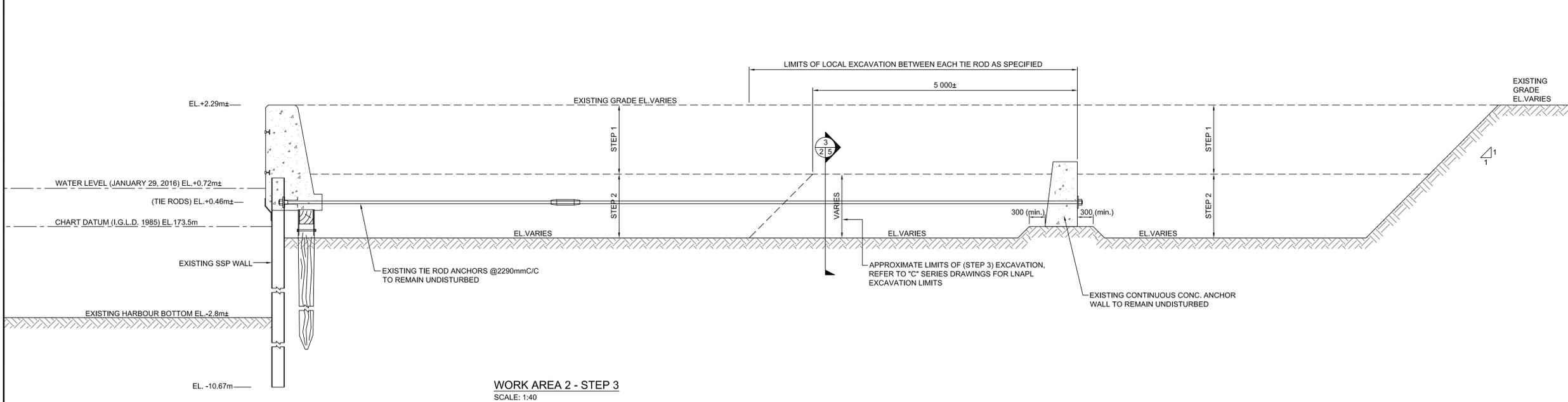
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WORK AREA 2 - STEP 1
SCALE: 1:40



WORK AREA 2 - STEP 2
SCALE: 1:40



WORK AREA 2 - STEP 3
SCALE: 1:40

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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LONDON, ONTARIO
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WWW.RIGGSENGINEERING.COM

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.
B	No. du détail
B/C	drawing no. - where detail required
C	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
conçue par
B. RIGGS

approved by
approuvé par
M. WEBER

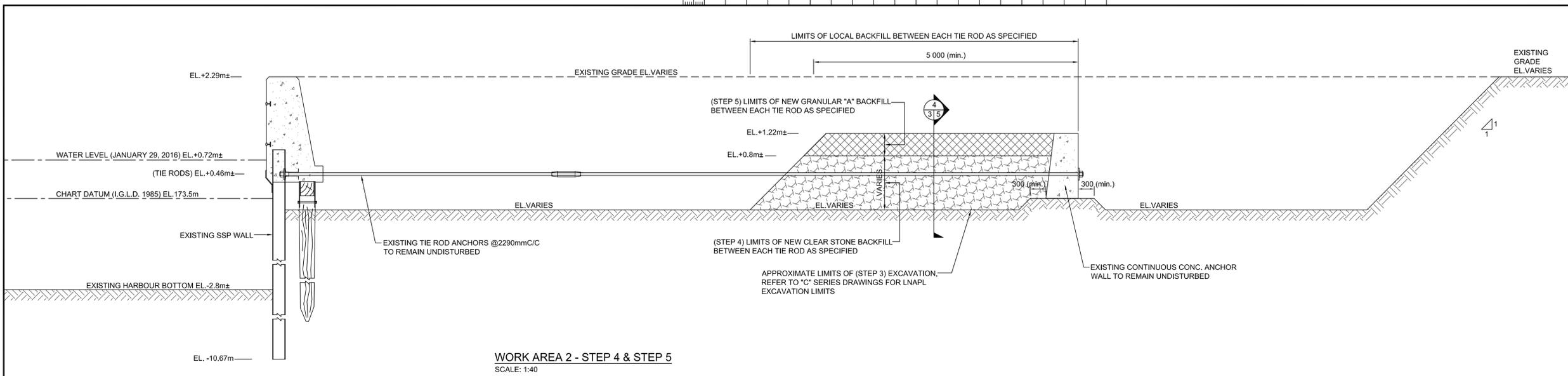
bid offer
offre
S. THOMPSON project manager
administrateur de projets

project date
date du projet
FEBRUARY 29, 2016

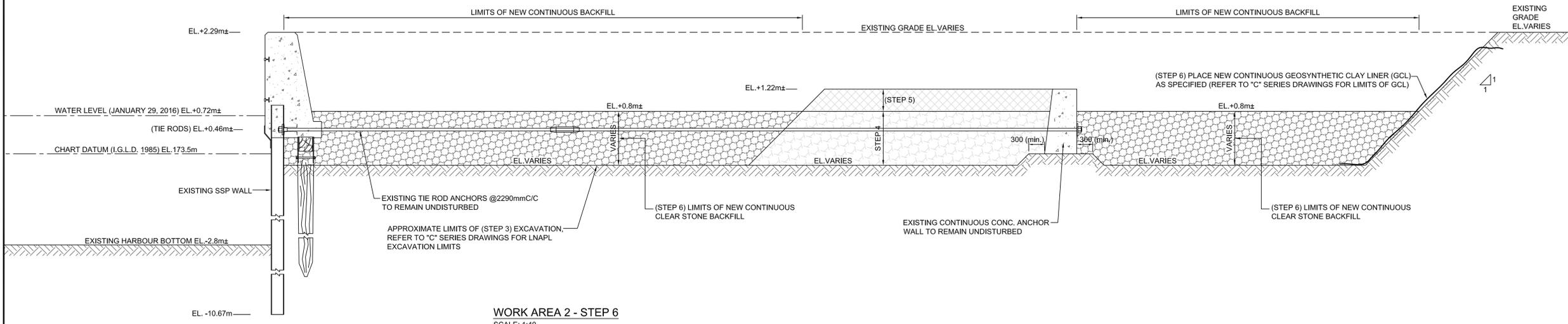
project no.
no. du projet
R.013137.006

drawing no.
dessiné no.
MA-02

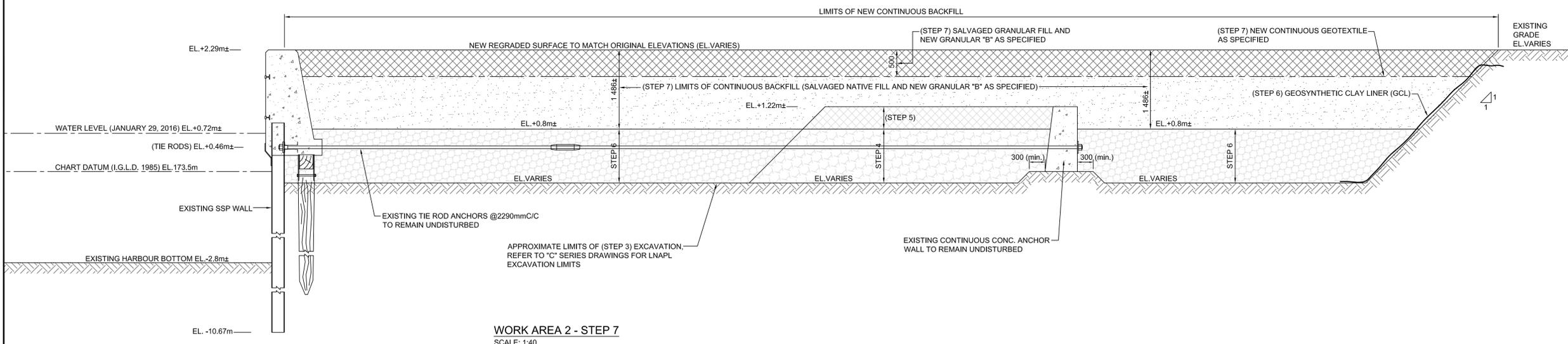
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WORK AREA 2 - STEP 4 & STEP 5
SCALE: 1:40



WORK AREA 2 - STEP 6
SCALE: 1:40



WORK AREA 2 - STEP 7
SCALE: 1:40

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

RIGGS ENGINEERING
RIGGS ENGINEERING Ltd.
1240 COMMISSIONERS Rd. WEST
SUITE 205
LONDON, ONTARIO
N6K 1C7
(519)-657-1040
WWW.RIGGSENGINEERING.COM



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

project title
titre du projet
PORT STANLEY ONTARIO

LNAPL REMEDIATION PROJECT

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titre du dessin
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designed by
conc par
B. RIGGS

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approuvé par
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bid offer
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-03



1	ISSUED FOR TENDER	MAR/8/2016
revision		date

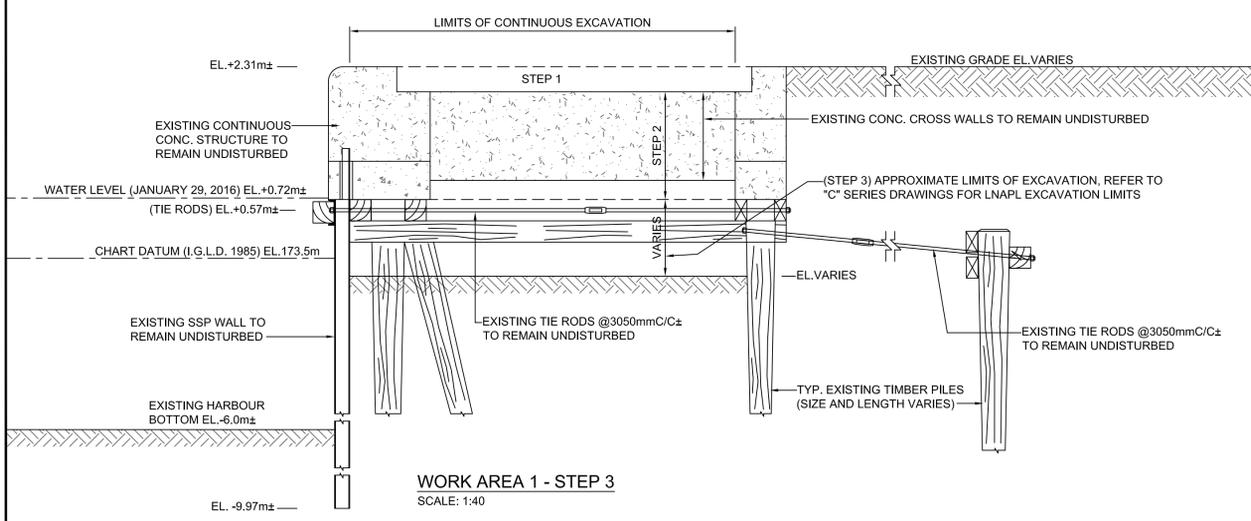
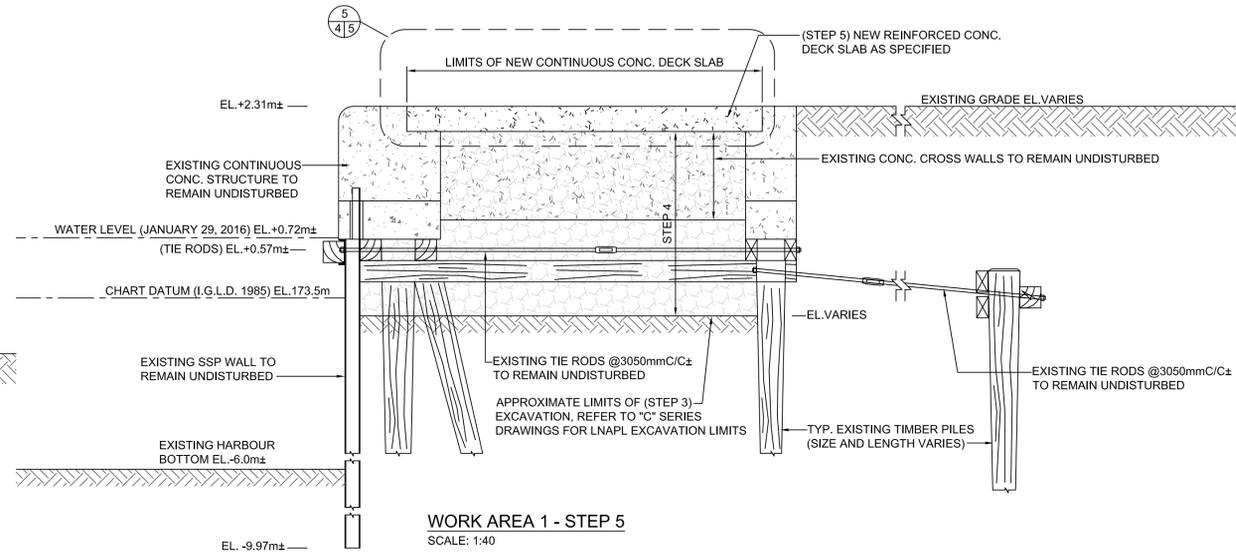
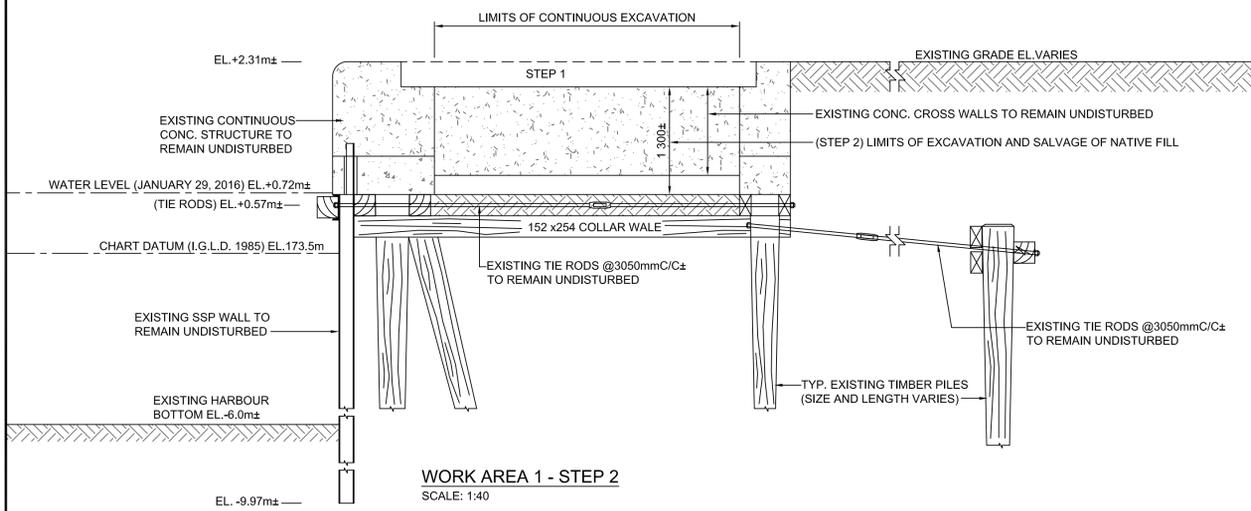
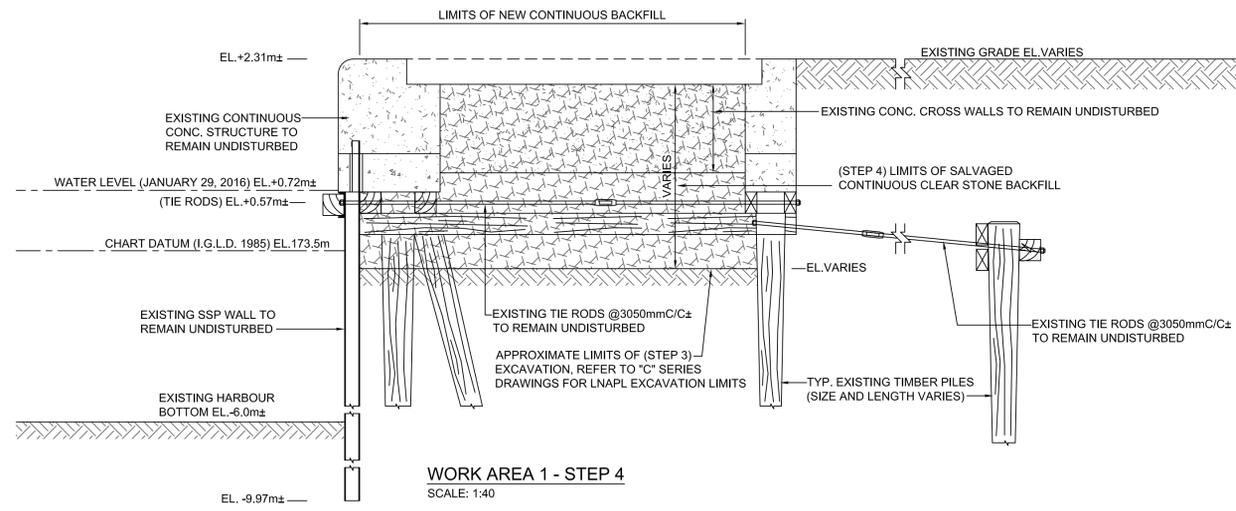
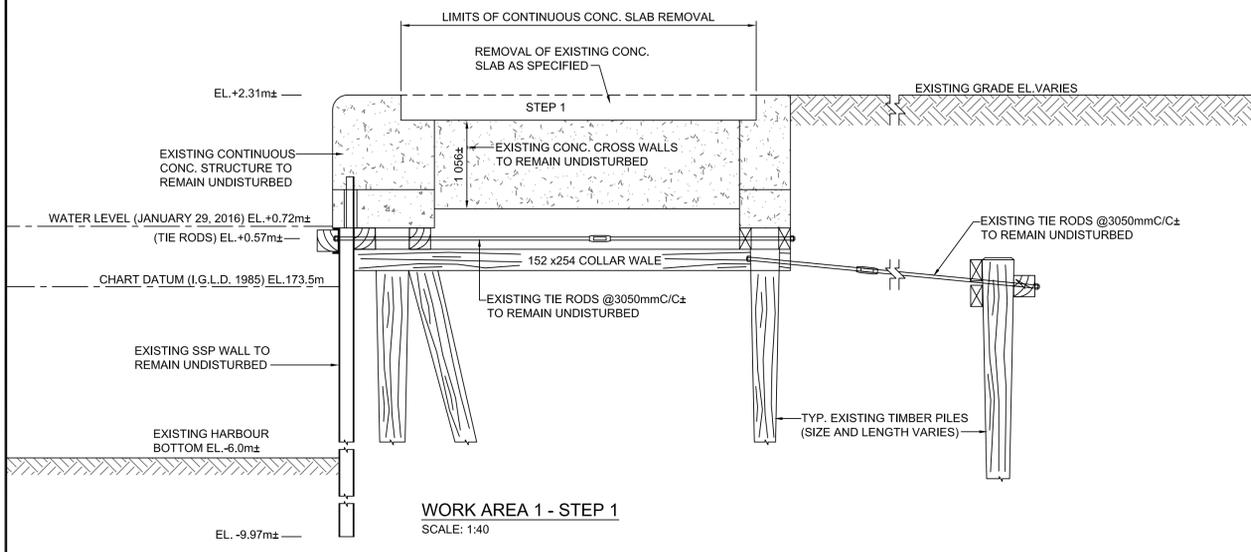
Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the department representative of all discrepancies.

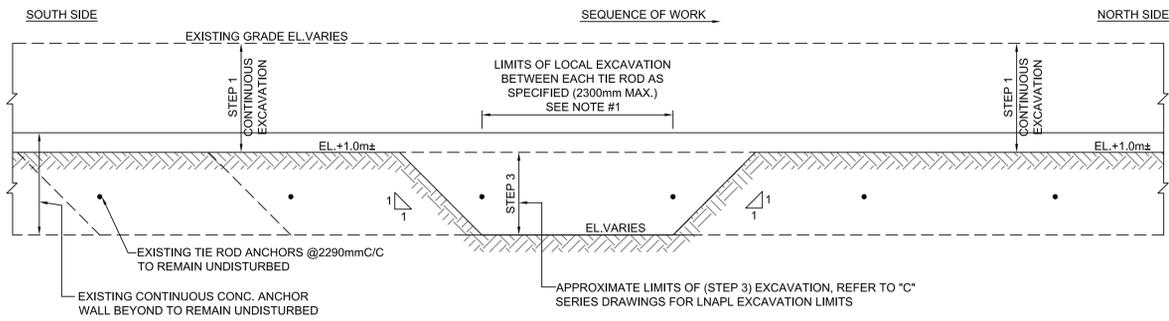
A	Detail No. No. du détail
B	drawing no. - where detail required dessin no. - où détail exigé
C	drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
PORT STANLEY ONTARIO

project title
titre du dessin
WORK AREA 1 SEQUENCING OF CONSTRUCTION

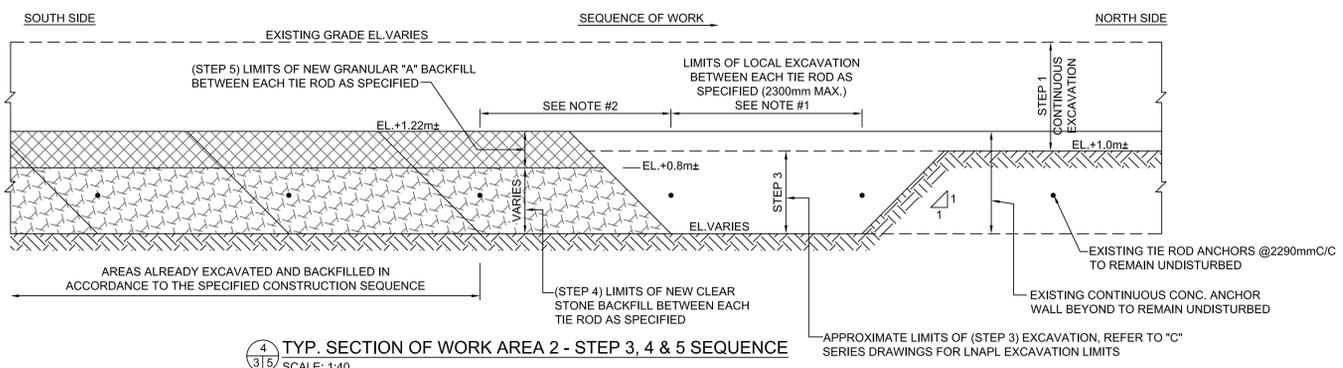
drawn by dessiné par	A. MARCZENKO
designed by conçu par	B. RIGGS
approved by approuvé par	M. WEBER
bid offer	S. THOMPSON project manager administrateur de projets
project date date du projet	FEBRUARY 29, 2016
project no. no. du projet	R.013137.006
drawing no. dessiné no.	MA-04



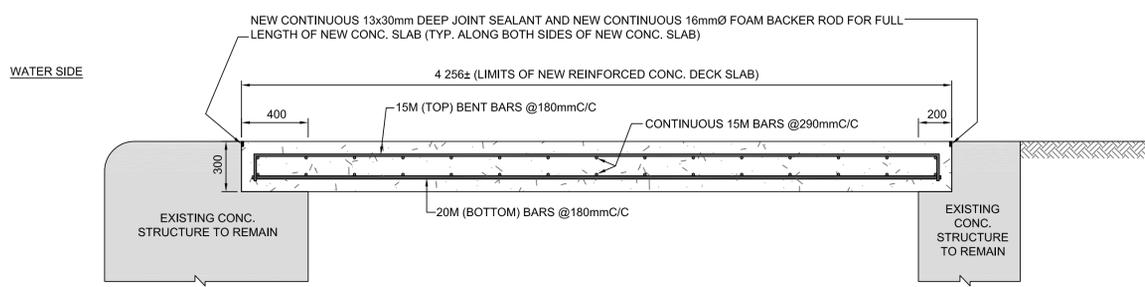


3 TYP. SECTION OF WORK AREA 2 - STEP 3 SEQUENCE
SCALE: 1:40

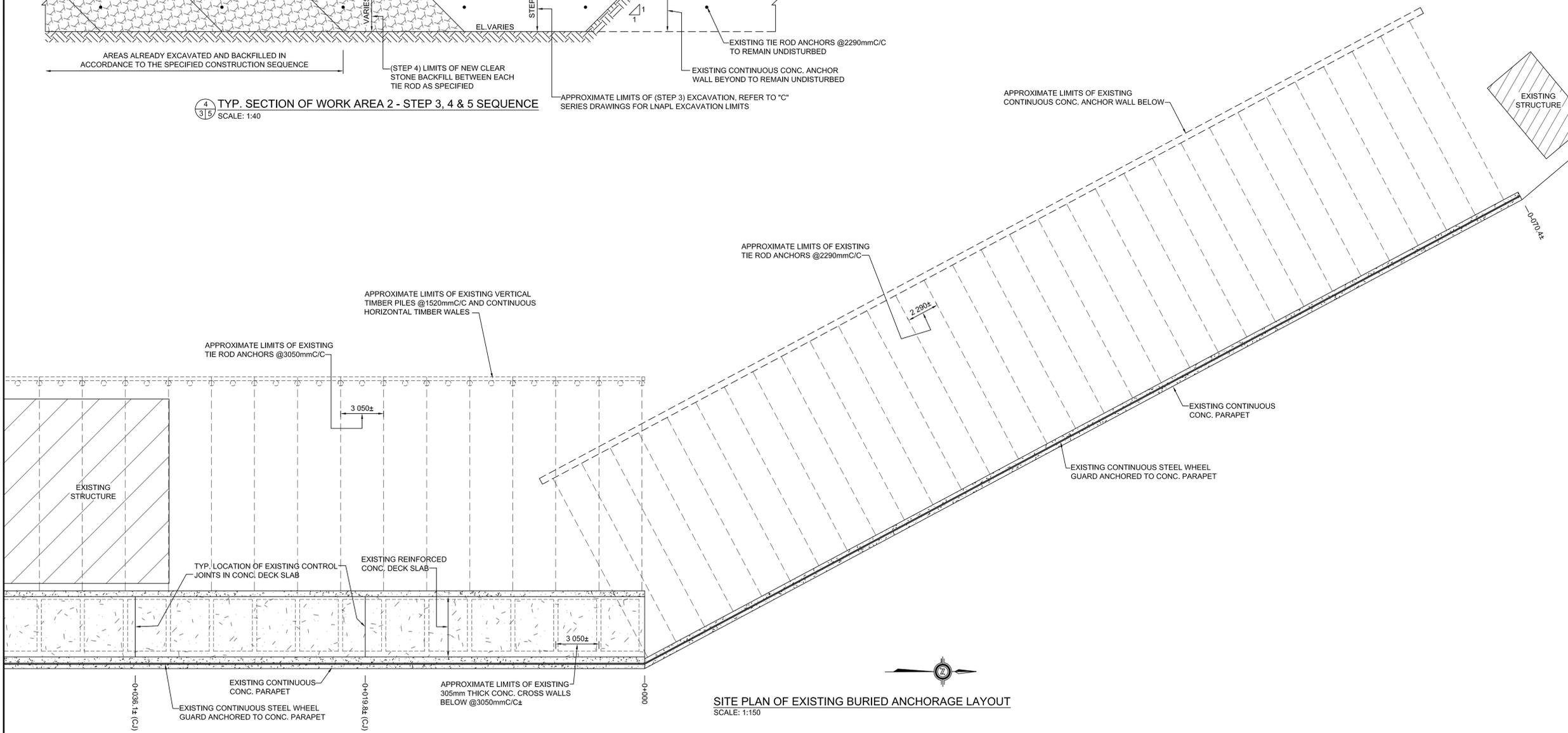
- CONSTRUCTION SEQUENCE NOTES:
- 1) COMMENCE EXCAVATION AT SOUTHERN BOUNDARY OF WORK AS SHOWN IN DETAIL #3. LIMIT THE WIDTH OF EXCAVATION TO 2300mm AT BASE. THE MAXIMUM EXPOSED WIDTH OF ANCHOR WALL AT ANY TIME IS 2300mm.
 - 2) BACKFILL AS SHOWN IN DETAIL #4 BEFORE CONTINUING WITH STEP 3 EXCAVATION OF NEXT TIE ROD PAIR.
 - 3) WORK PROGRESSIVELY FROM SOUTH TO NORTH IN 2300mm INCREMENTS.



4 TYP. SECTION OF WORK AREA 2 - STEP 3, 4 & 5 SEQUENCE
SCALE: 1:40



5 TYP. SECTION DETAIL OF NEW CONC. DECK SLAB
SCALE: 1:20



SITE PLAN OF EXISTING BURIED ANCHORAGE LAYOUT
SCALE: 1:150

Public Works and Government Services Canada
Architectural and Engineering Services
Ontario Region
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Services d'architecture et de génie
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project title
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PORT STANLEY ONTARIO

LNAPL REMEDIATION PROJECT

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**TYP. DETAILS
(WORK AREA 1 & WORK AREA 2)**

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designed by
conc par
B. RIGGS

approved by
approuvé par
M. WEBER

bid offer
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