

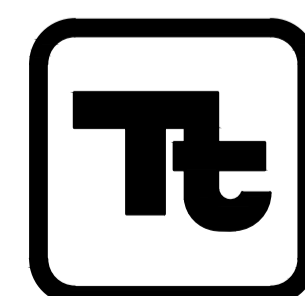


**Public Works and
Government Services
Canada
Pacific Region**

**Travaux publics et
Services gouvernementaux
Canada
Région du Pacifique**

**MUNCHO LAKE ROADSIDE STABILIZATION
RETAINING WALLS**

**ALASKA HIGHWAY
BRITISH COLUMBIA**

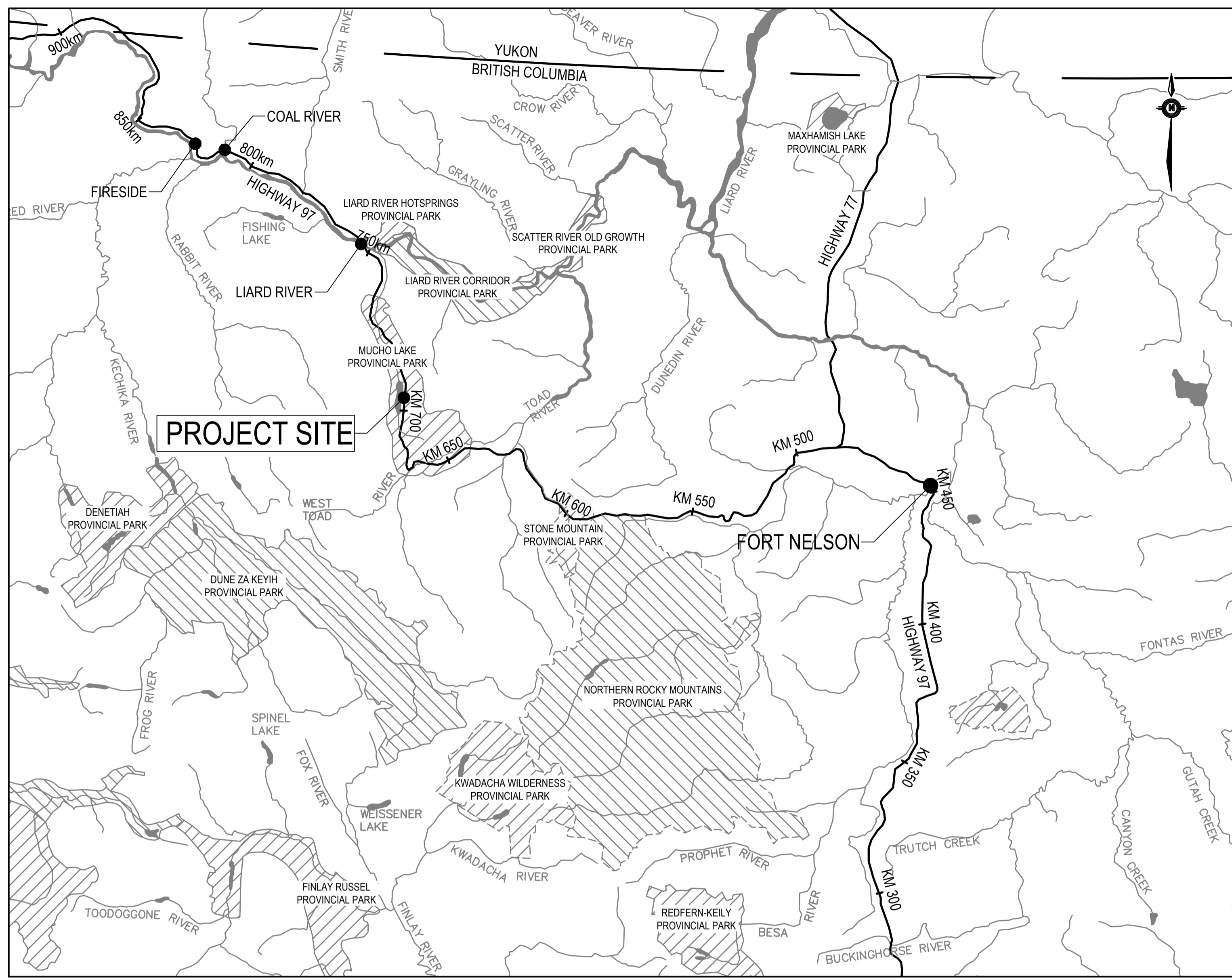


TETRA TECH EBA

**ISSUED FOR TENDER
JULY 2014**

PROJECT No. R017173.030

ISSUED FOR TENDER



PROJECT LOCATION PLAN
 SCALE: 1:1,000,000

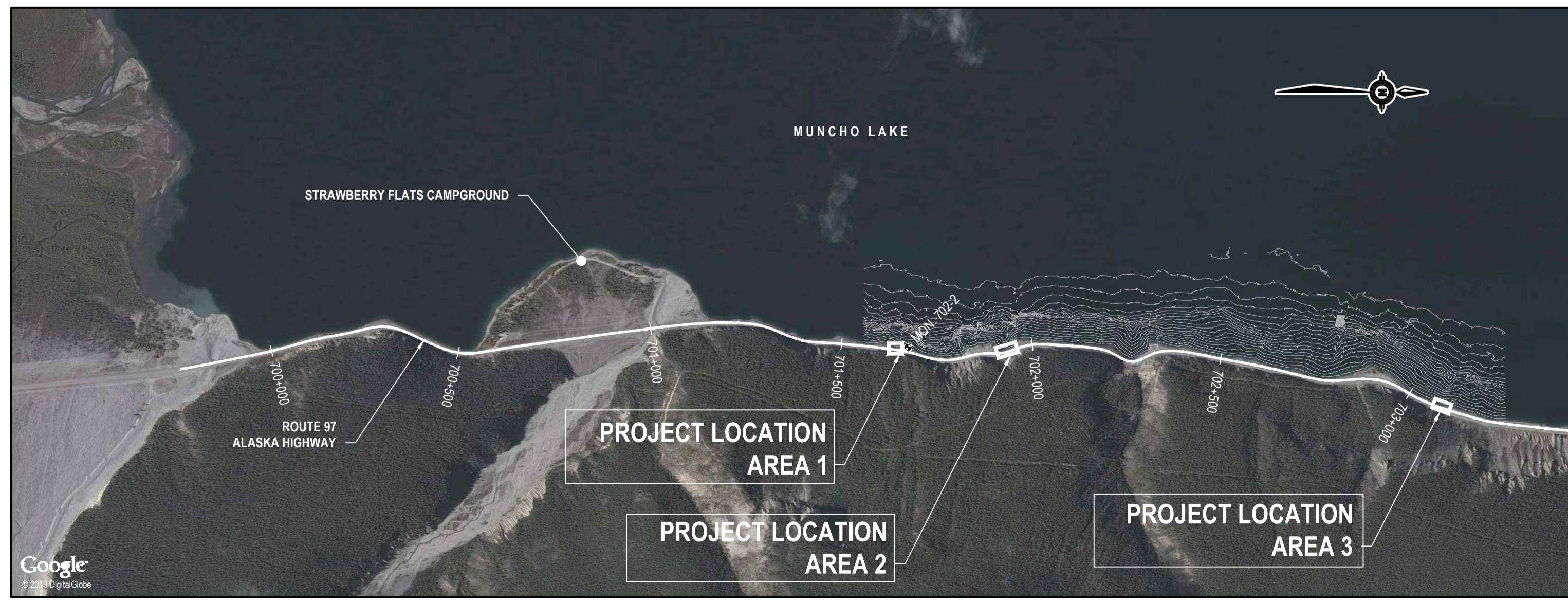
DRAWING INDEX	
DRAWING	DESCRIPTION
C000	COVER PAGE
C001	PROJECT LOCATION PLAN, PROJECT KEY PLAN, DRAWING INDEX, SURVEY CONTROL MONUMENTS, AND LEGEND
C101	RETAINING WALL PLAN AND TYPICAL SECTIONS (AREA 1)
C102	RETAINING WALL DETAILS, ELEVATION, AND CROSS SECTIONS (AREA 1)
C103	RETAINING WALL CROSS SECTIONS (AREA 1)
C201	RETAINING WALL PLAN AND TYPICAL SECTIONS (AREA 2)
C202	RETAINING WALL TYPICAL SECTIONS AND DETAILS (AREA 2)
C203	RETAINING WALL ELEVATION VIEW AND CROSS SECTIONS 1 OF 5 (AREA 2)
C204	RETAINING WALL CROSS SECTIONS 2 OF 5 (AREA 2)
C205	RETAINING WALL CROSS SECTIONS 3 OF 5 (AREA 2)
C206	RETAINING WALL CROSS SECTIONS 4 OF 5 (AREA 2)
C207	RETAINING WALL CROSS SECTIONS 5 OF 5 (AREA 2)
C301	RETAINING WALL PLAN, TYPICAL SECTION, ELEVATION AND DETAILS (AREA 3)
C302	RETAINING WALL DETAILS AND CROSS SECTIONS (AREA 3)
C303	RETAINING WALL CROSS SECTIONS (AREA 3)

SURVEY CONTROL MONUMENTS:

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
MON 702-2	6538526.304	340697.146	819.320	SURVEY CONTROL MONUMENT (SEE PROJECT KEY PLAN THIS SHEET)
MON 706-1	6542442.262	341233.636	819.319	SURVEY CONTROL MONUMENT (LOCATED OUTSIDE PROJECT KEY PLAN LIMITS)
MON 706-2	6542741.170	341205.305	819.122	SURVEY CONTROL MONUMENT (LOCATED OUTSIDE PROJECT KEY PLAN LIMITS)

LEGEND:

EXISTING	PROPOSED



PROJECT KEY PLAN
 SCALE: 1:10,000

1	ISSUED FOR TENDER	2014/07/04
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Revision Description/Description Date/Date

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

TETRA TECH EBA

Project title/Titre du projet

MUNCHO LAKE ROADSIDE STABILIZATION RETAINING WALLS

Approved by/Approuvé par
J. PELLETT, G. WILKINS

Designed by/Concept par
A. AFKHAM, A. HORWOOD

Drawn by/Dessiné par
A. HERZOG

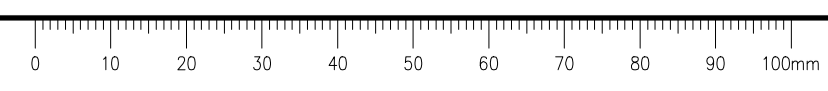
PWGSC Project Manager/Administrateur de Projets TFSGC
A. TAHERI

PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TFSGC

Client/client
PWGSC

Drawing title/Titre du dessin
**PROJECT LOCATION PLAN
 PROJECT KEY PLAN
 DRAWING INDEX
 SURVEY CONTROL MONUMENTS
 AND LEGEND**

Project No./No. du projet R017173.030	Sheet/Fauille C001 OF C303	Revision no./La Révision no. 1
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ISSUED FOR TENDER

- GENERAL NOTES:**
- DIMENSIONS, COORDINATES, AND ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
 - ELEVATIONS ARE RELATIVE TO GSC DATUM.
 - TOPOGRAPHIC BASE PLAN BASED ON OCTOBER, 2013, SURVEY CONDUCTED BY APEX SURVEYING, AND JUNE, 2010, SURVEY CONDUCTED BY I.R. ROBERTSON AND PROVIDED TO EBA BY PWGSC.
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 - MINOR ADJUSTMENTS (+/- 0.3) TO THE FINAL LOCATION, HEIGHT, AND LAYOUT OF THE PROPOSED RETAINING WALL AND GABION MATS MAY BE MADE DURING CONSTRUCTION BY THE DEPARTMENT REPRESENTATIVE TO ENSURE THE WALL CONFORMS WITH THE EXISTING SITE CONDITIONS / DESIGN CONSTRAINTS.
 - LAYOUT OF WORK BASED ON LAYOUT POINT OF EXISTING GABIONS. CENTERLINE AND CONTROL LINE SHOWN FOR REFERENCE ONLY AND LAYOUT OF DRIVING LANE.
 - STOP WORK IMMEDIATELY AND NOTIFY THE DEPARTMENTAL REPRESENTATIVE IF MATERIALS SUCH AS TIMBER CRIBBING, WIRE ROPE, CORDUROY / TIMBER LOSS, OR OTHER UNEXPECTED MATERIALS ARE ENCOUNTERED WITHIN THE LIMITS OF EXCAVATION.



SCALES AS SHOWN

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PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

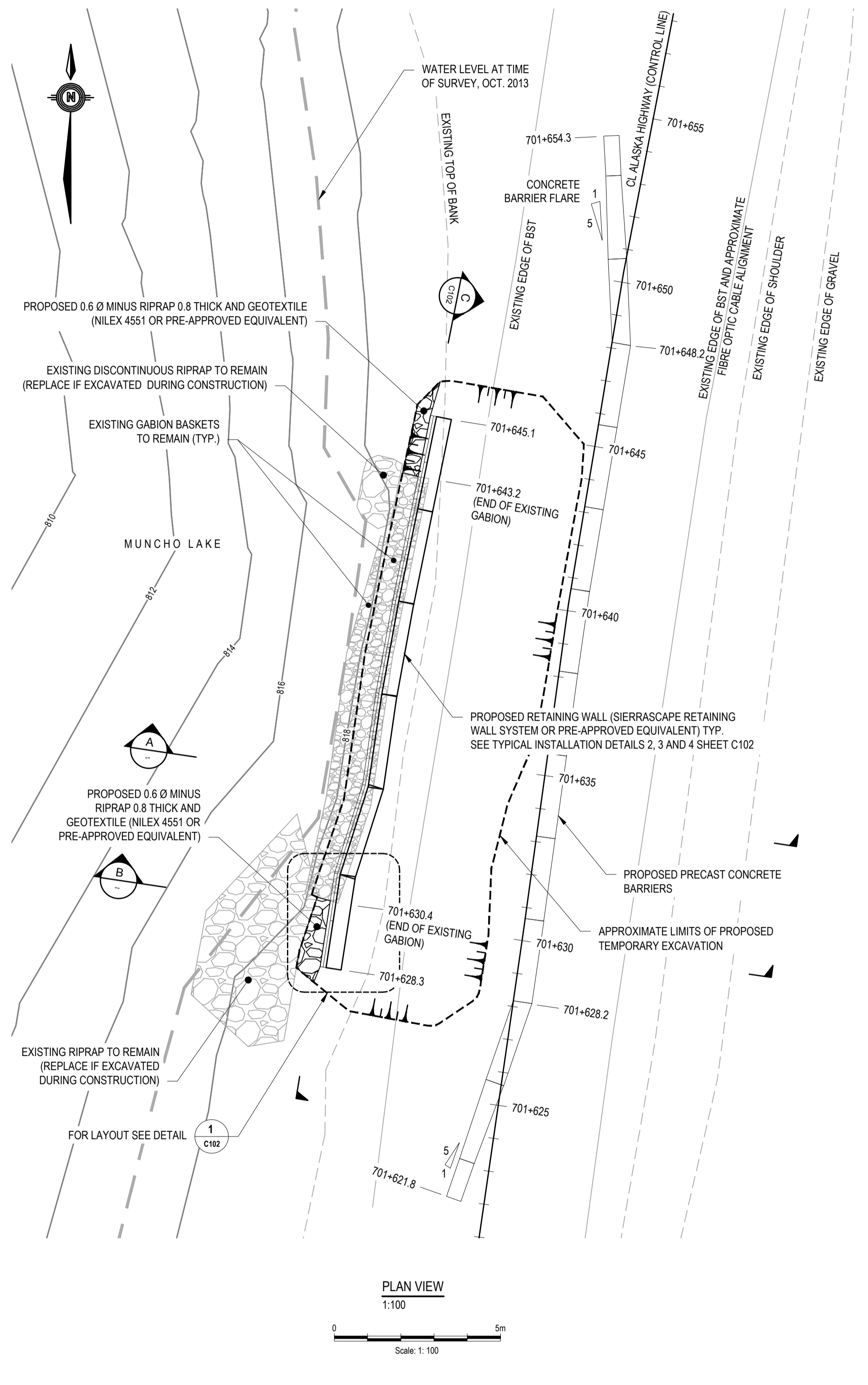
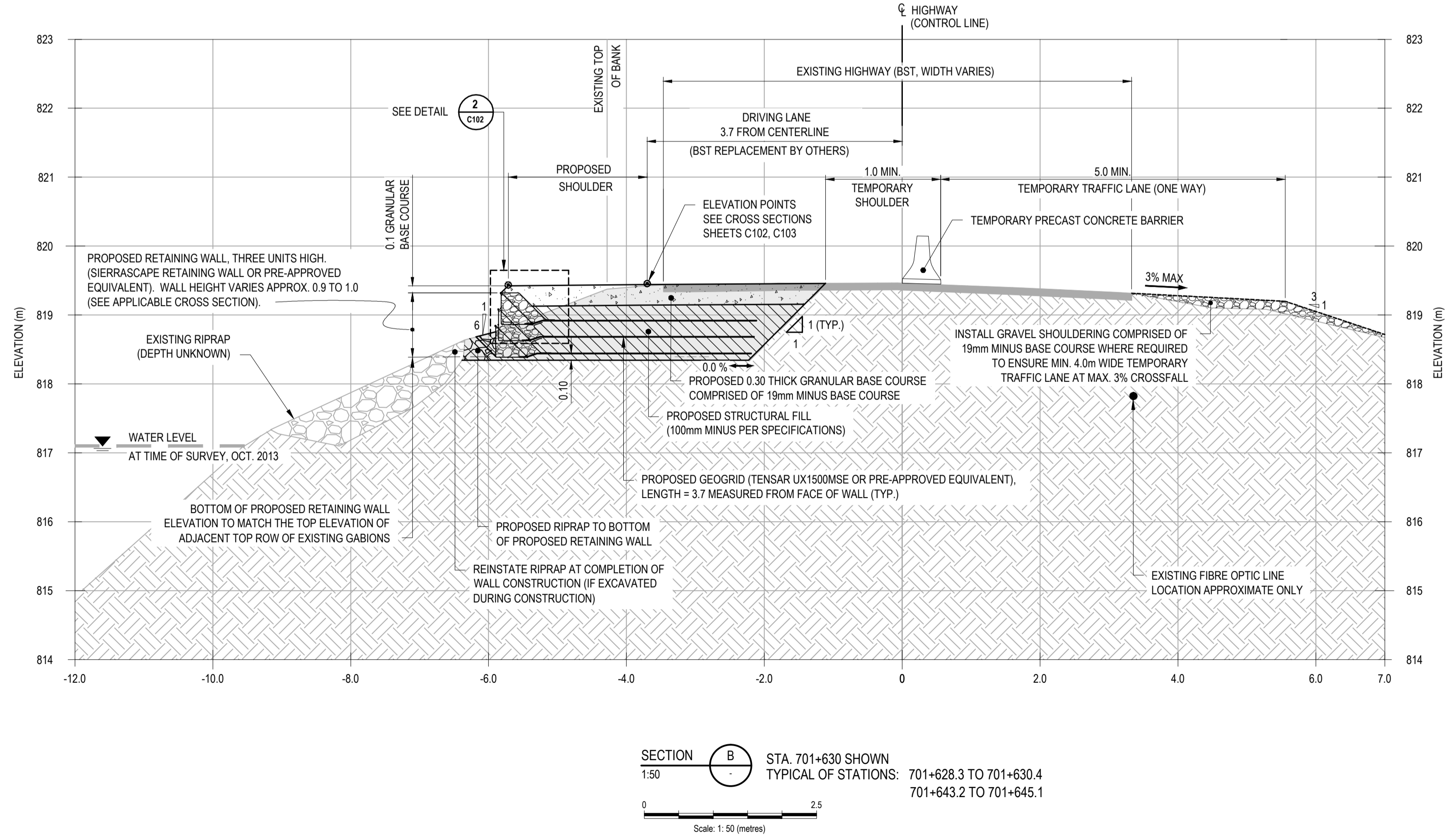
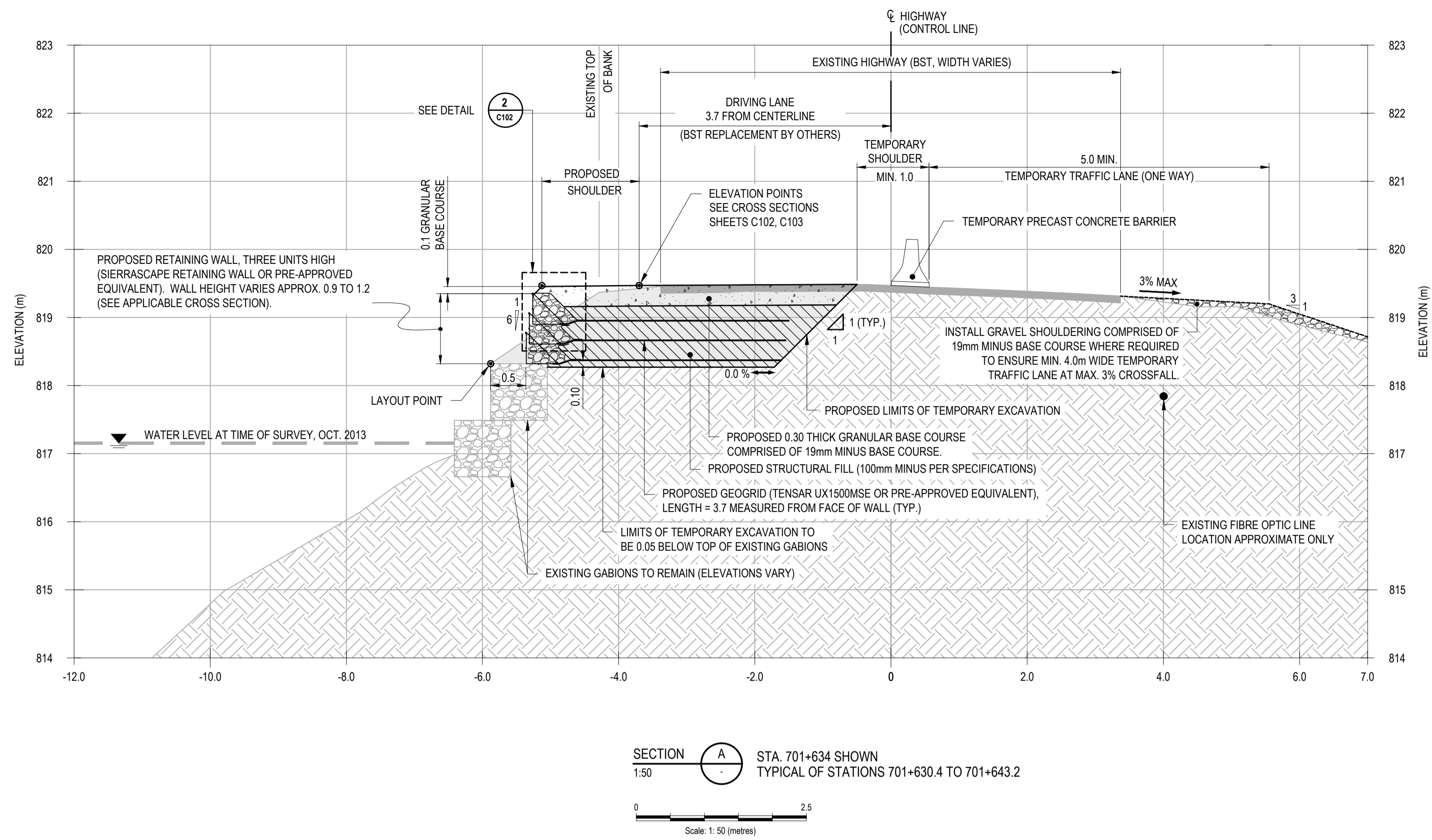


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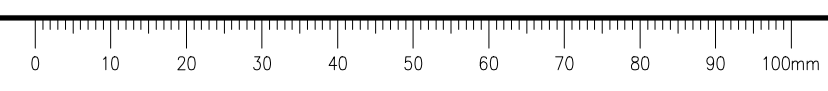
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A. HERZOG
 PWGSC Project Manager/Administrateur de Projets TPSCG
A. TAHERI
 PWGSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSCG

Client/client
PWGSC
 Drawing title/Titre du dessin
RETAINING WALL PLAN AND TYPICAL SECTIONS (AREA 1)

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R017173.030	C101 OF C303	1

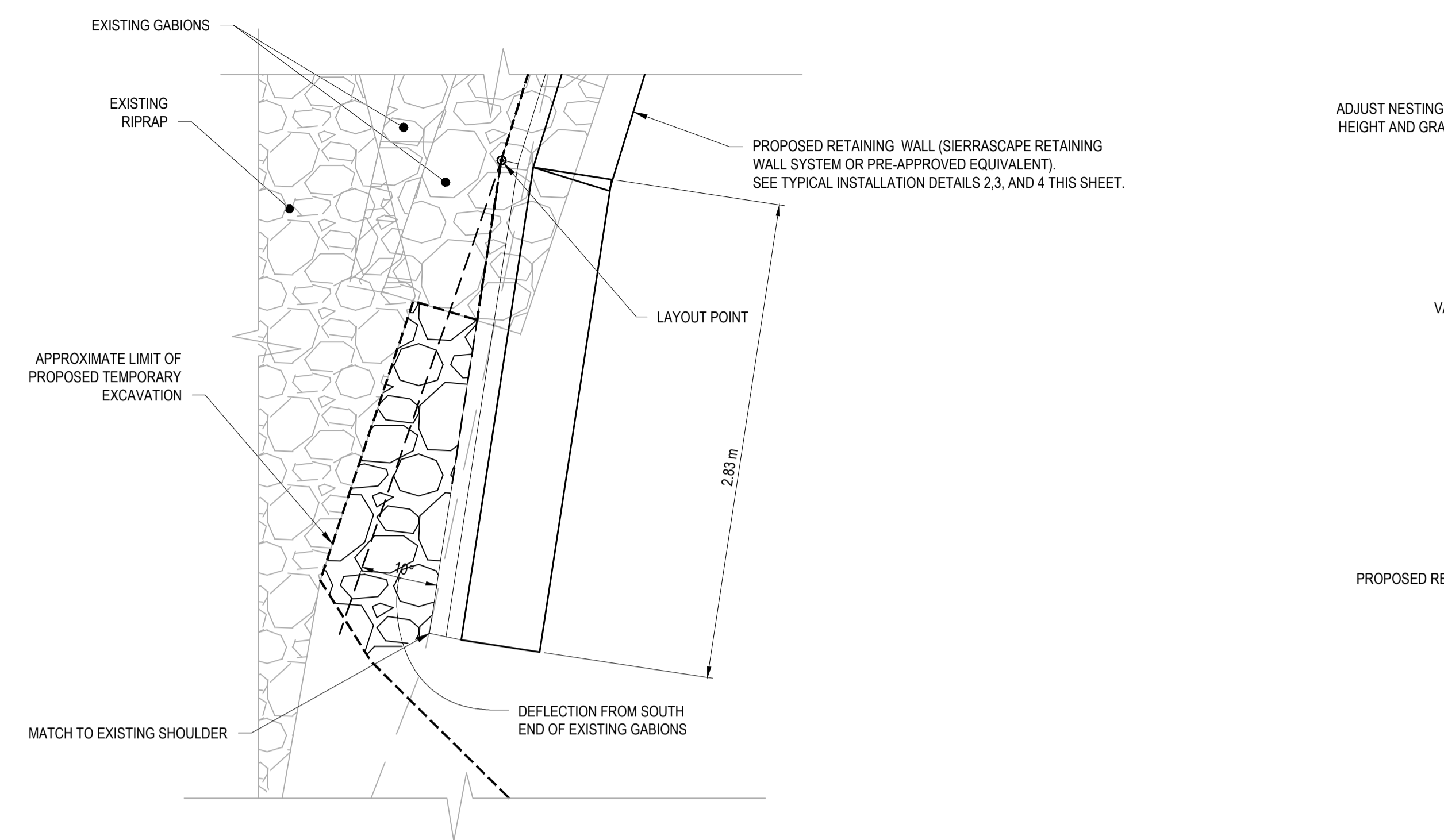


- SUGGESTED CONSTRUCTION SEQUENCING (AREA 1)**
- INSTALL TEMPORARY TRAFFIC CONTROL DEVICES (INCLUDING PRECAST CONCRETE BARRIERS, GRAVEL SHOULDERING, AND SIGNAGE) FOR ONE-WAY TRAFFIC.
 - COMPLETE EXCAVATION.
 - INSTALL RETAINING WALL.
 - BACKFILL WITH STRUCTURAL FILL AND GRANULAR BASE COURSE IN PREPARATION OF BST BY OTHERS.
 - REMOVE TEMPORARY TRAFFIC CONTROL DEVICES.

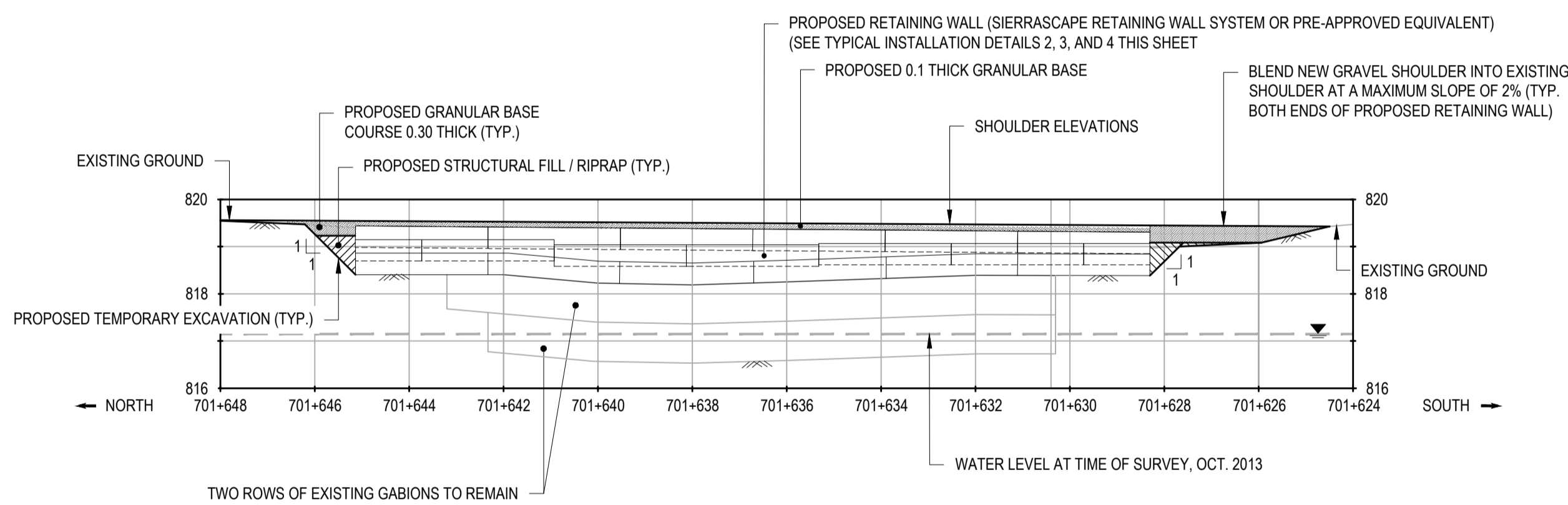
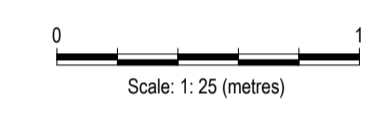


ISSUED FOR TENDER

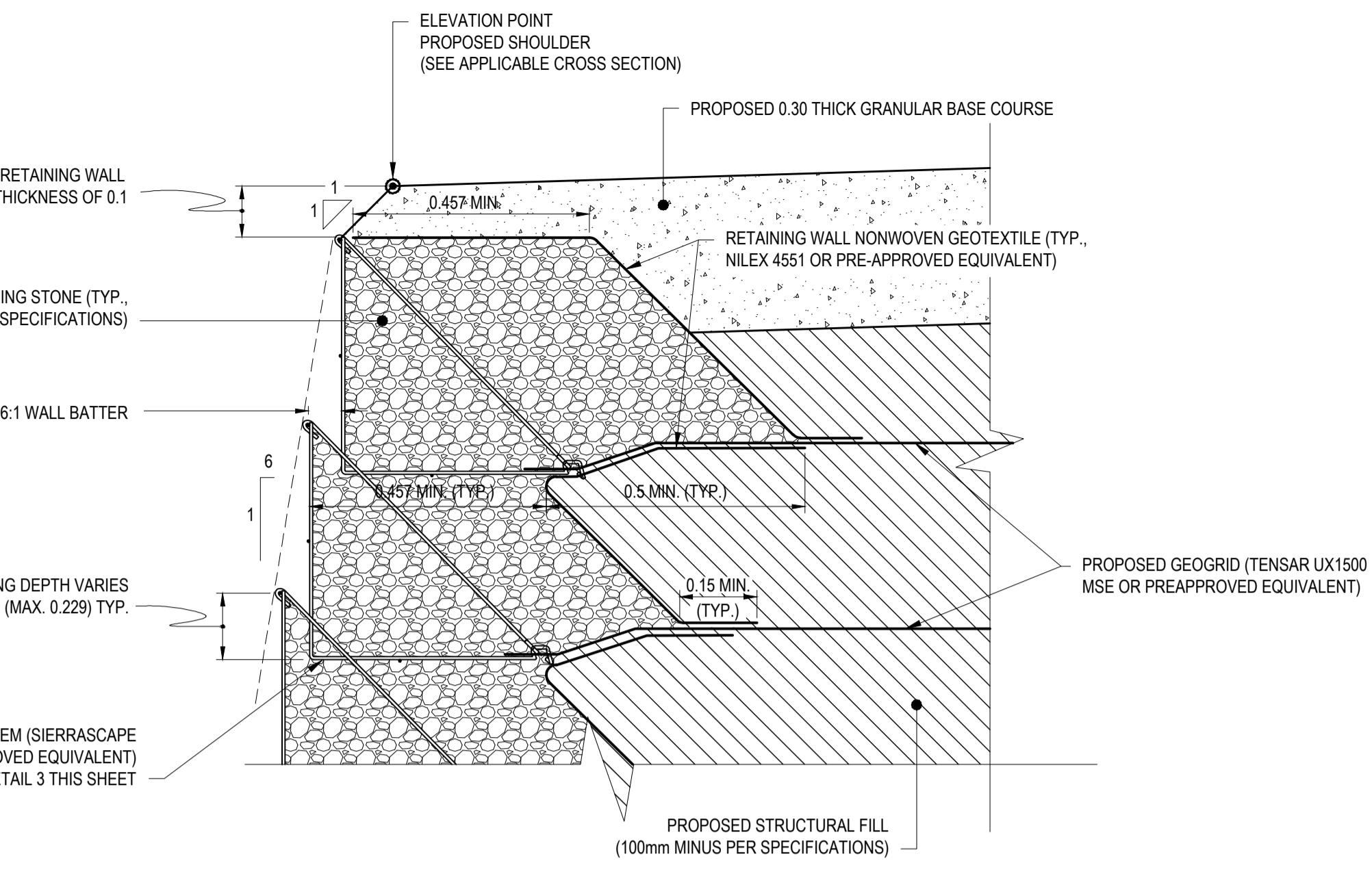
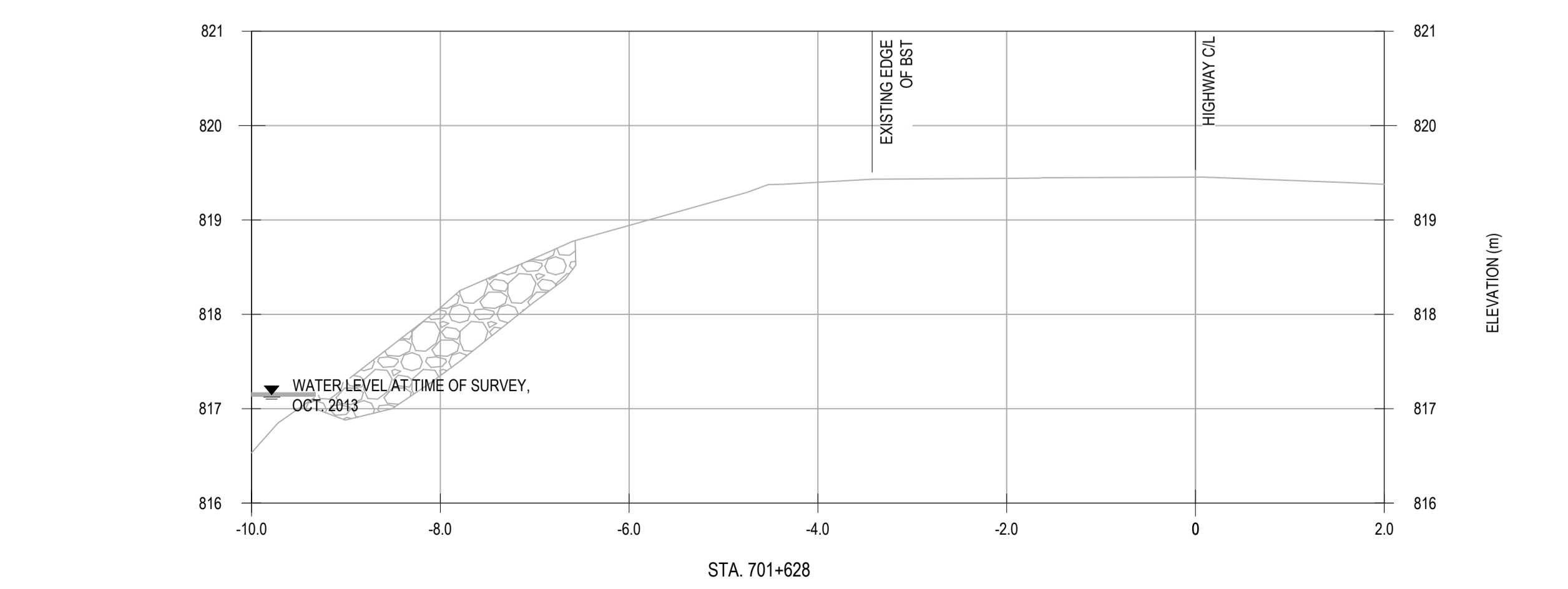
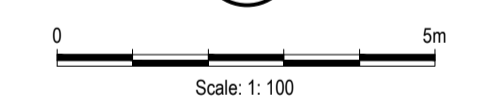
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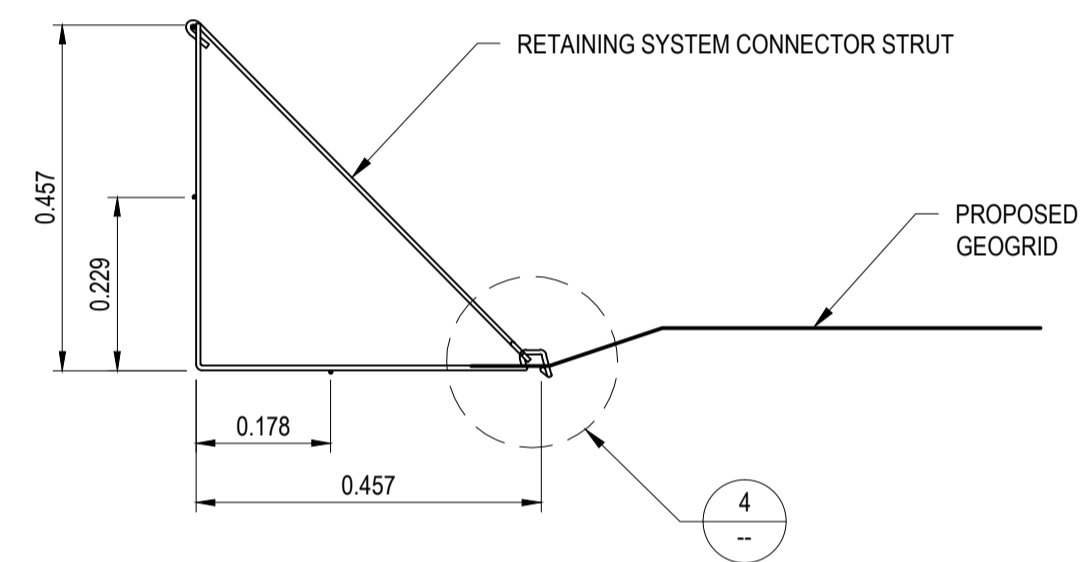
DETAIL 1
1:25
RETAINING WALL LAYOUT ALIGNMENT
SOUTH END OF EXISTING GABIONS



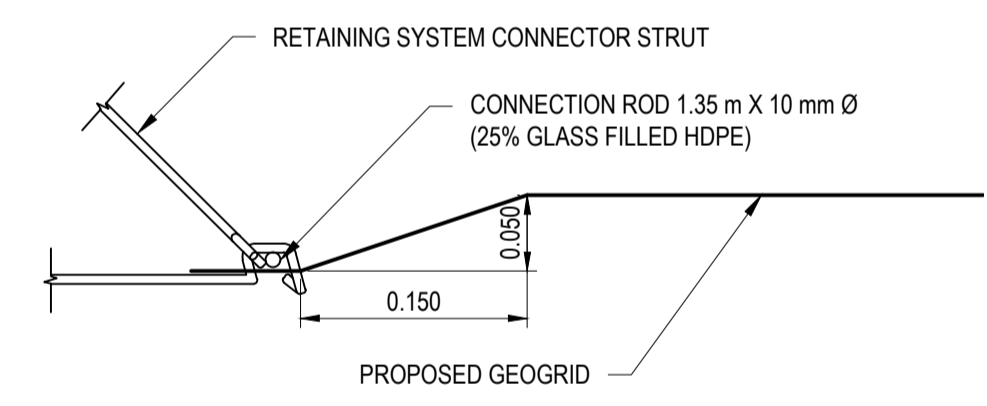
SECTION C
1:100
RETAINING WALL ELEVATION VIEW



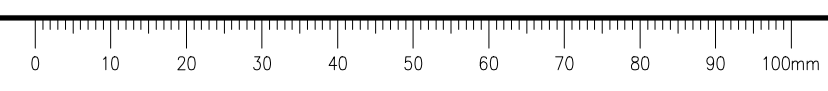
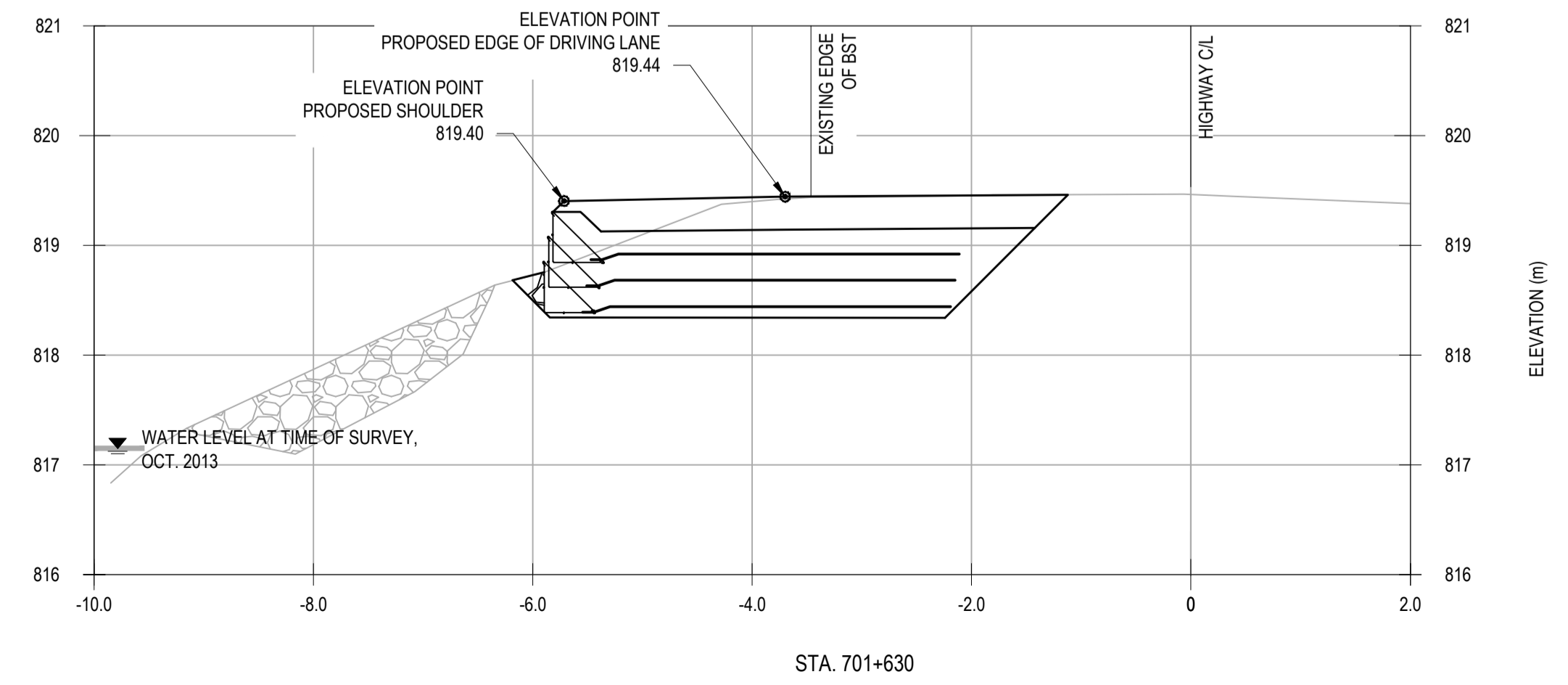
DETAIL 2
1:10
PROPOSED RETAINING WALL AND
GRANULAR BASE COURSE EDGE TREATMENT AT SHOULDER



DETAIL 3
1:10
PROPOSED RETAINING WALL SYSTEM (WIRE MESH FACED MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL SYSTEM BY SIERRASCAPE OR PRE-APPROVED EQUIVALENT)



DETAIL 4
1:5
CONNECTION LOOP DETAIL



Professional Engineer
 G. E. WILKINS
 CIVIL
 Professional Engineer
 J. PELLETT
 GEOTECHNICAL

Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2014/07/04

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

TETRA TECH EBA

Project Title/Titre du projet
MUNCHO LAKE ROADSIDE STABILIZATION RETAINING WALLS

Approved by/Approve par
J. PELLETT, G. WILKINS
 Designed by/Concept par
A. AFKHAM, A. HORWOOD
 Drawn by/Dessiné par
A. HERZOG
 PWGSC Project Manager/Administrateur de Projets TPSCG
A. TAHERI
 PWGSC, Architectural and Engineering Resources Manager/
 Ressources Architectural et de Directeur d'ingénierie, TPSCG

Client/client
PWGSC
 Drawing Title/Titre du dessin
RETAINING WALL DETAILS ELEVATION AND CROSS SECTIONS (AREA 1)

Project No./No. du projet R017173.030	Sheet/Fauille C102 OF C303	Revision no./ La Révision no. 1
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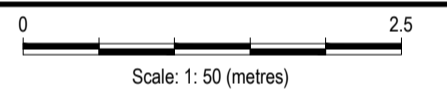


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J. Pellett, G. Wilkins
 2014
 CIVIL

J. Pellett
 2014
 GEOTECHNICAL



Revision	Description/Description	Date/Date
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Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



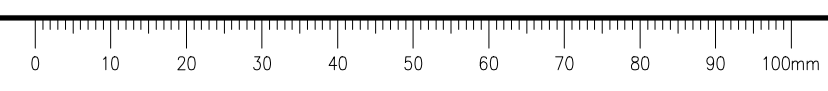
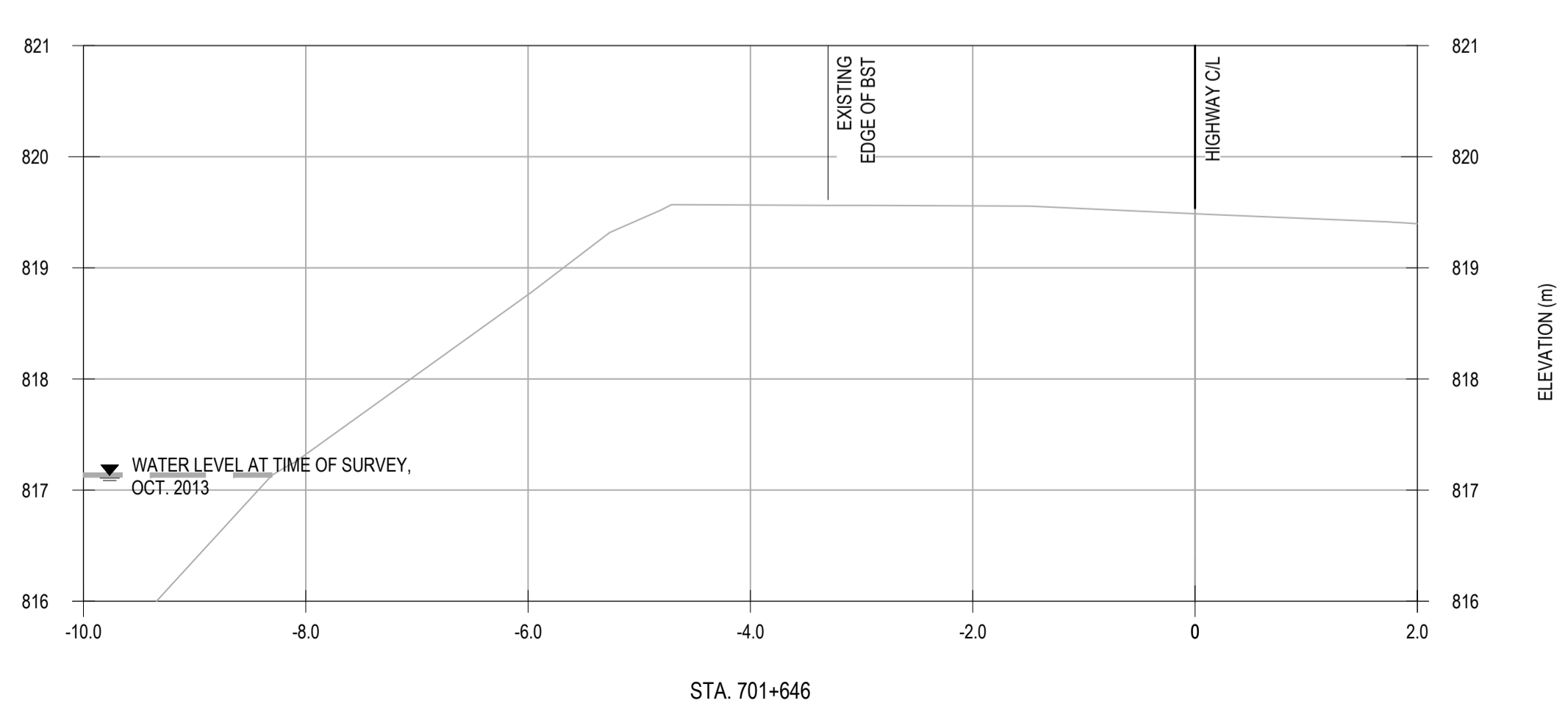
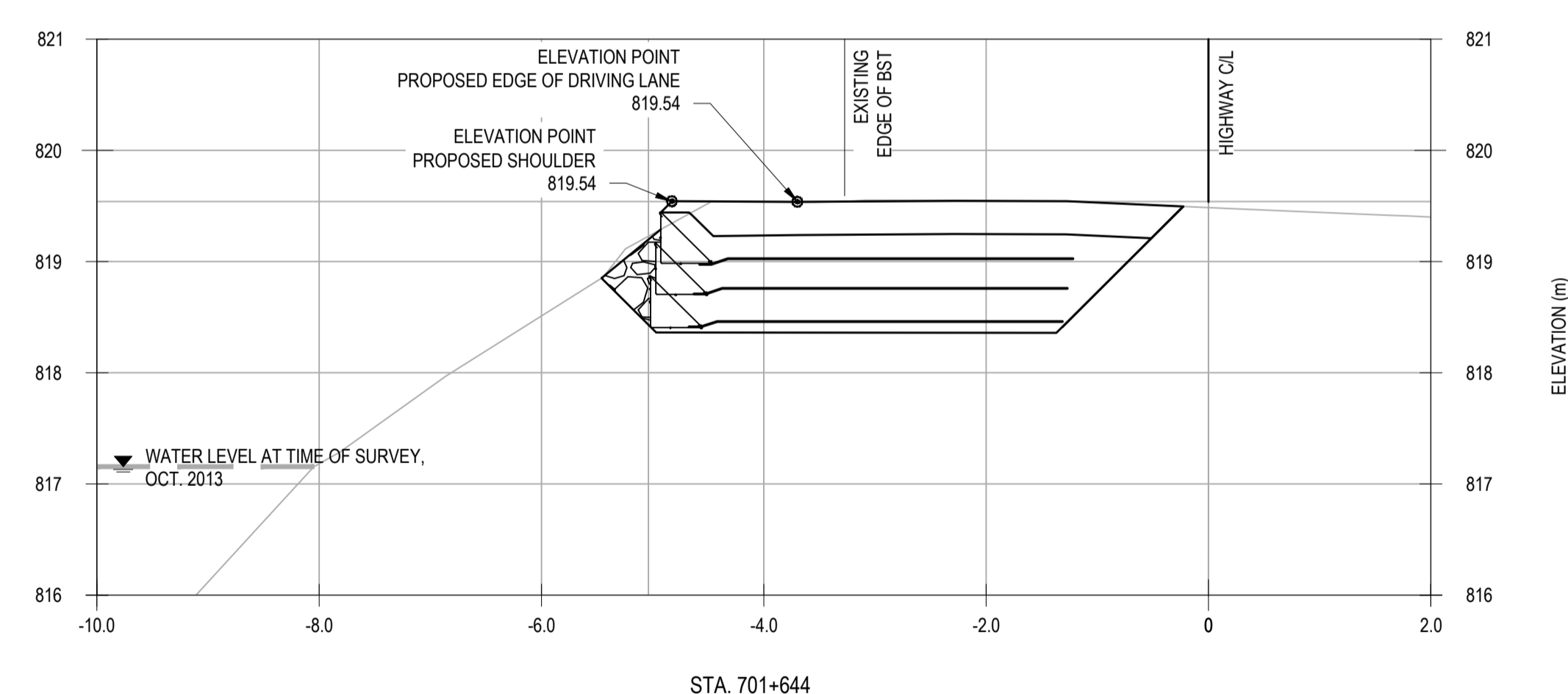
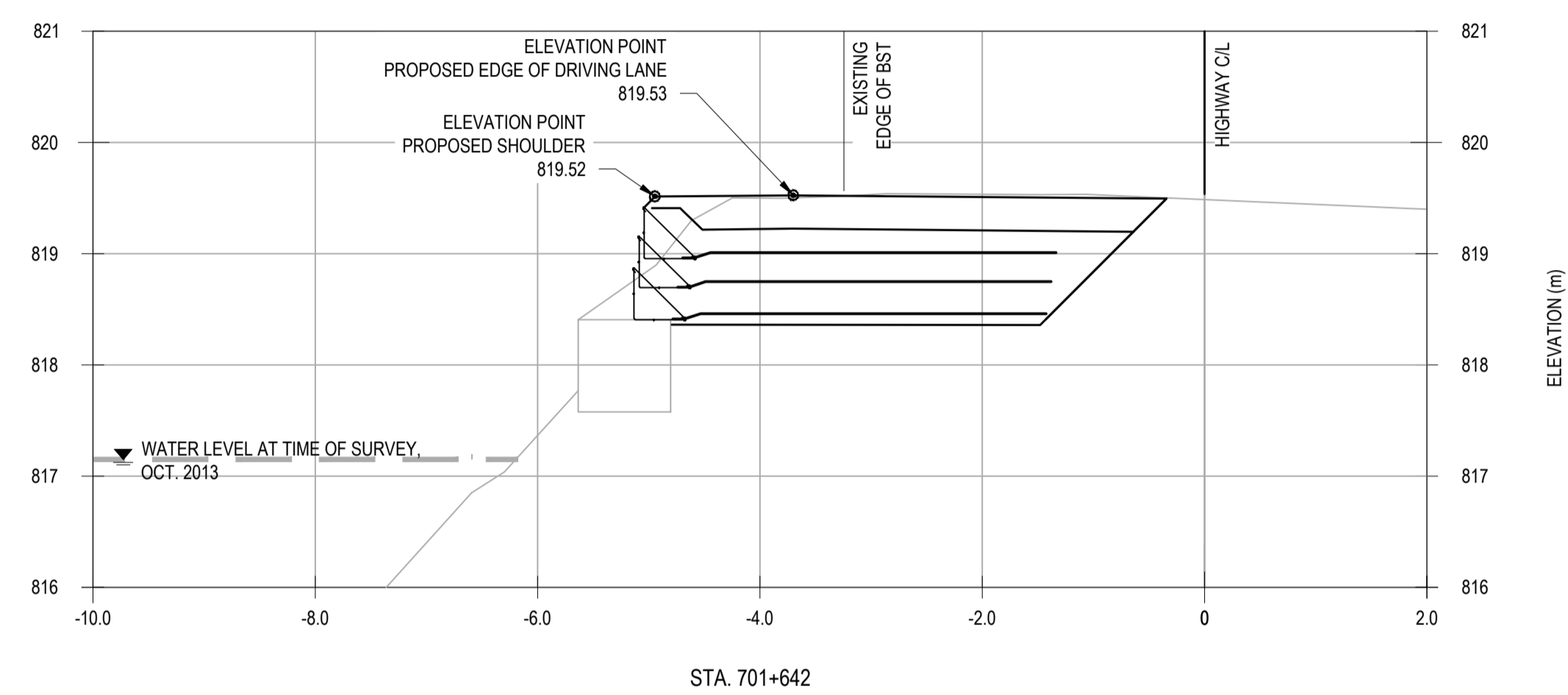
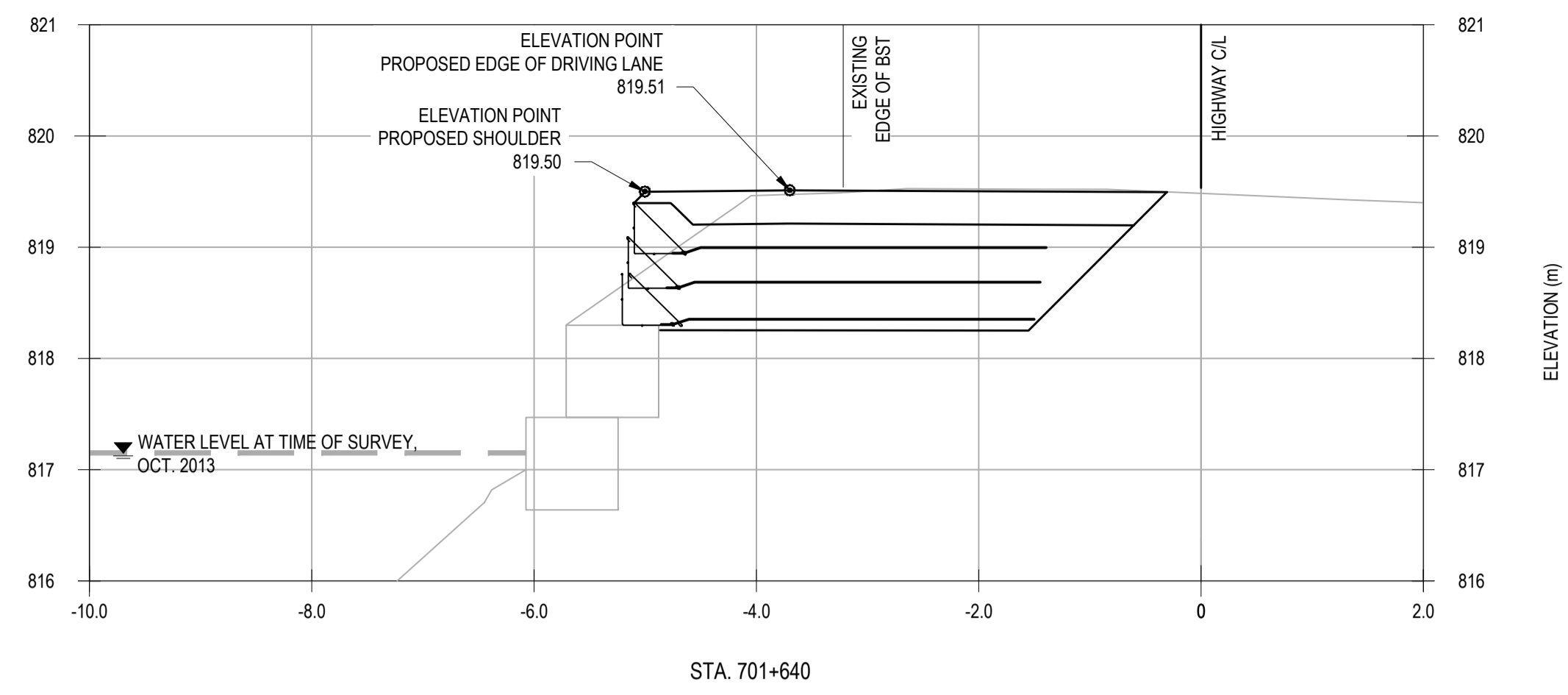
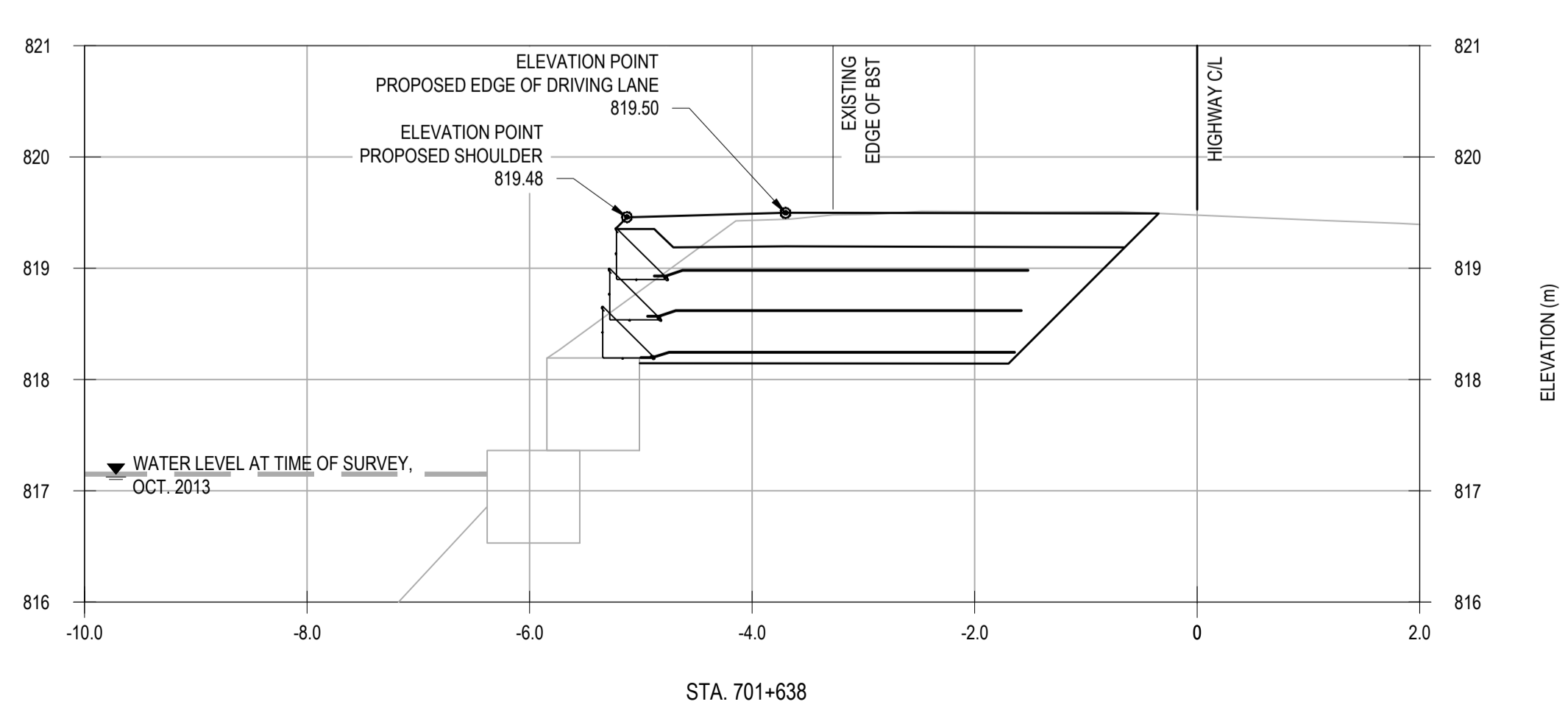
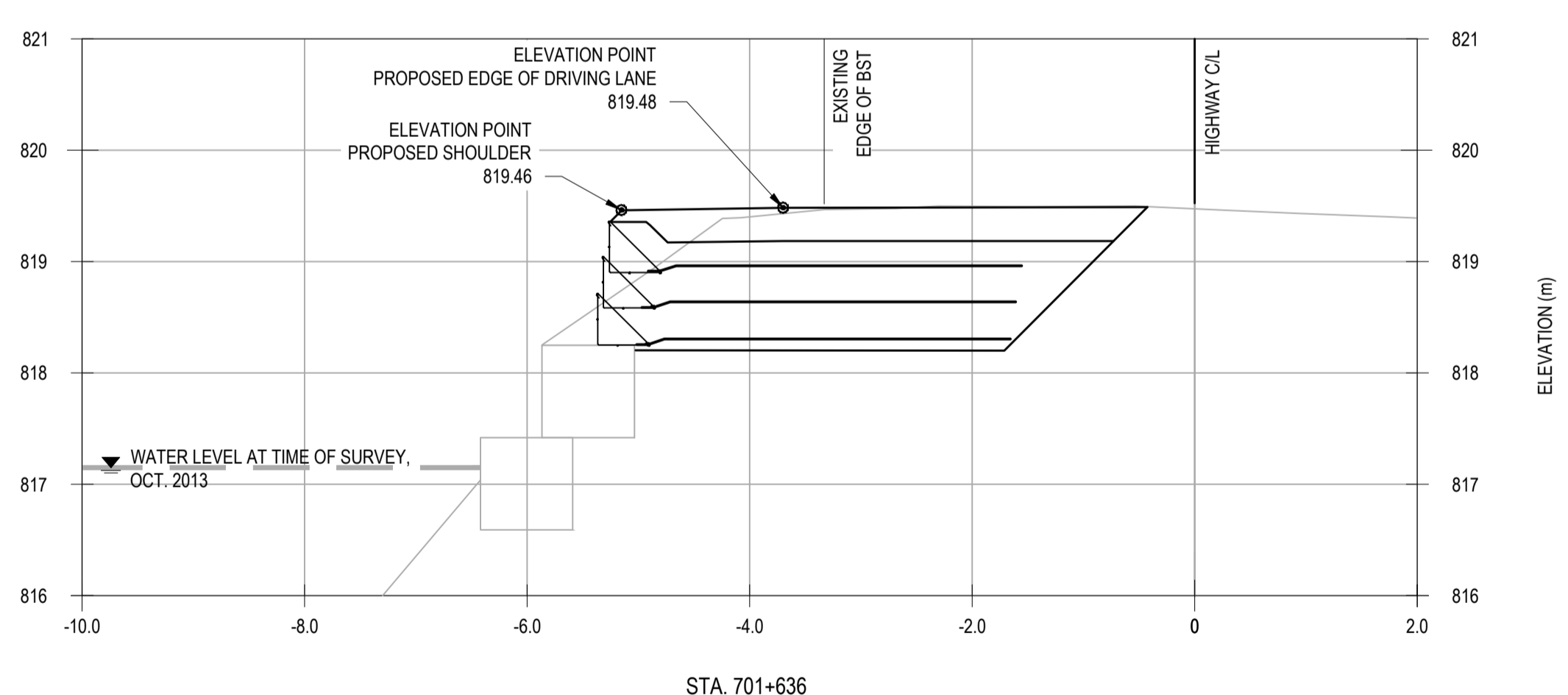
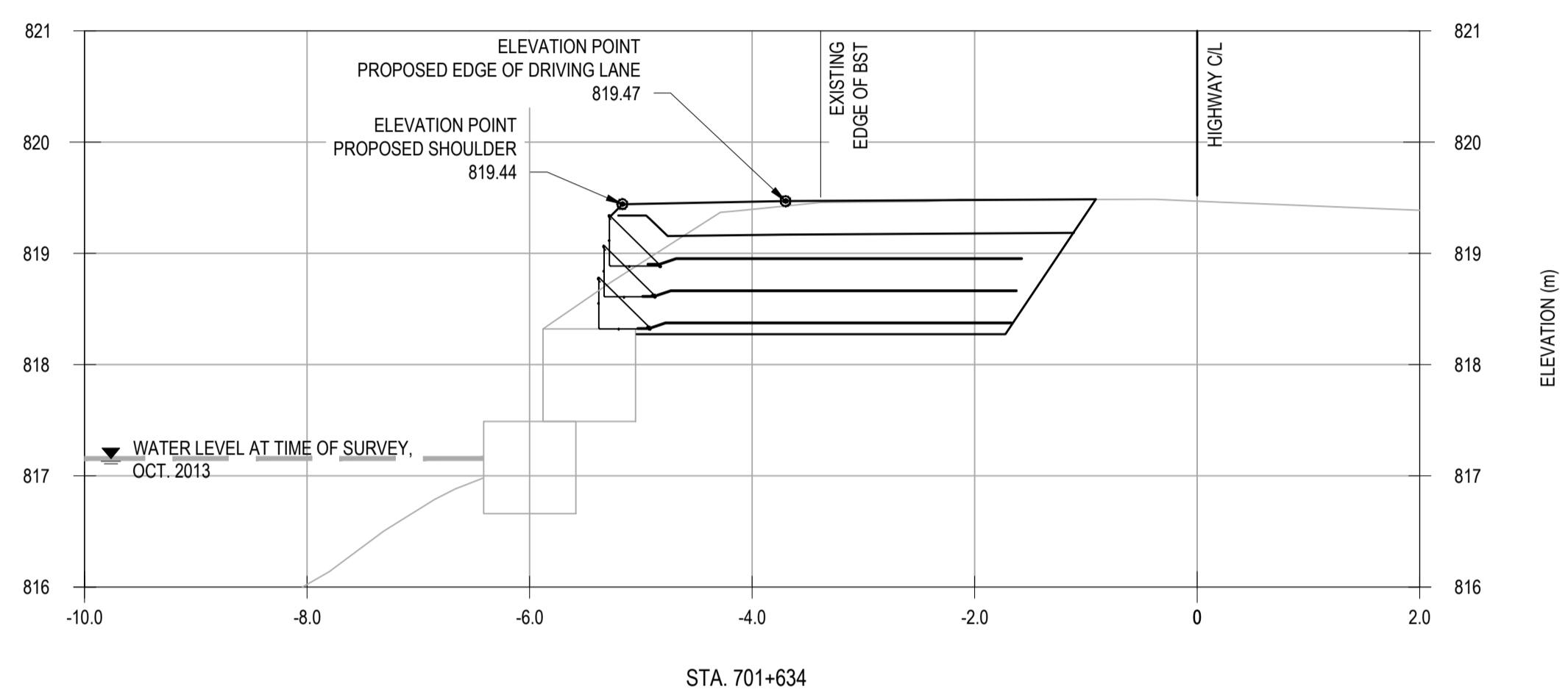
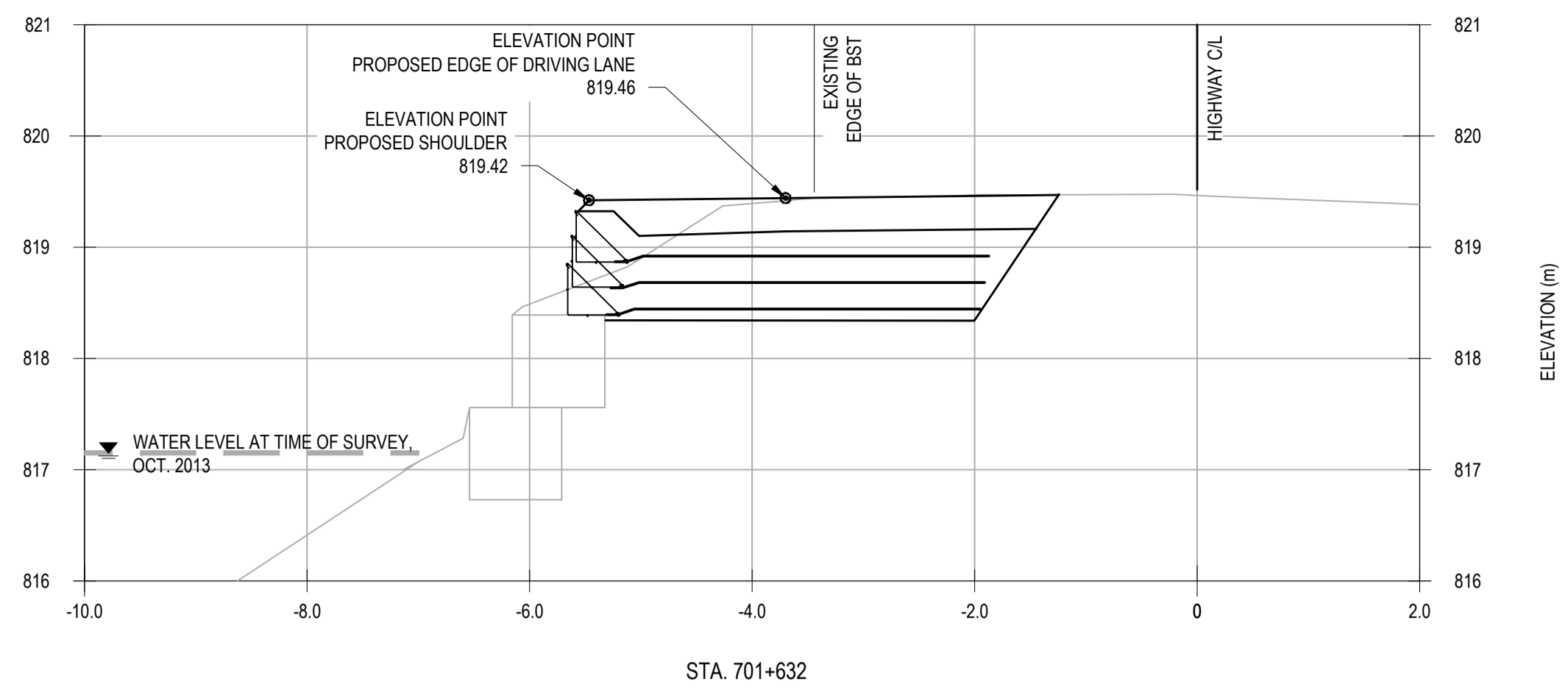
Project title/Titre du projet
MUNCHO LAKE ROADSIDE STABILIZATION RETAINING WALLS

Approved by/Approve par
J. PELLETT, G. WILKINS
 Designed by/Concept par
A. AFKHAM, A. HORWOOD
 Drawn by/Dessine par
A. HERZOG
 PWGSC Project Manager/Administrateur de Projets TPSCG
A. TAHERI
 PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSCG

Client/client
PWGSC

Drawing title/Titre du dessin
RETAINING WALL CROSS SECTIONS (AREA 1)

Project No./No. du projet R017173.030	Sheet/Fauille C103 OF C303	Revision no./La Révision no. 1
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ISSUED FOR TENDER

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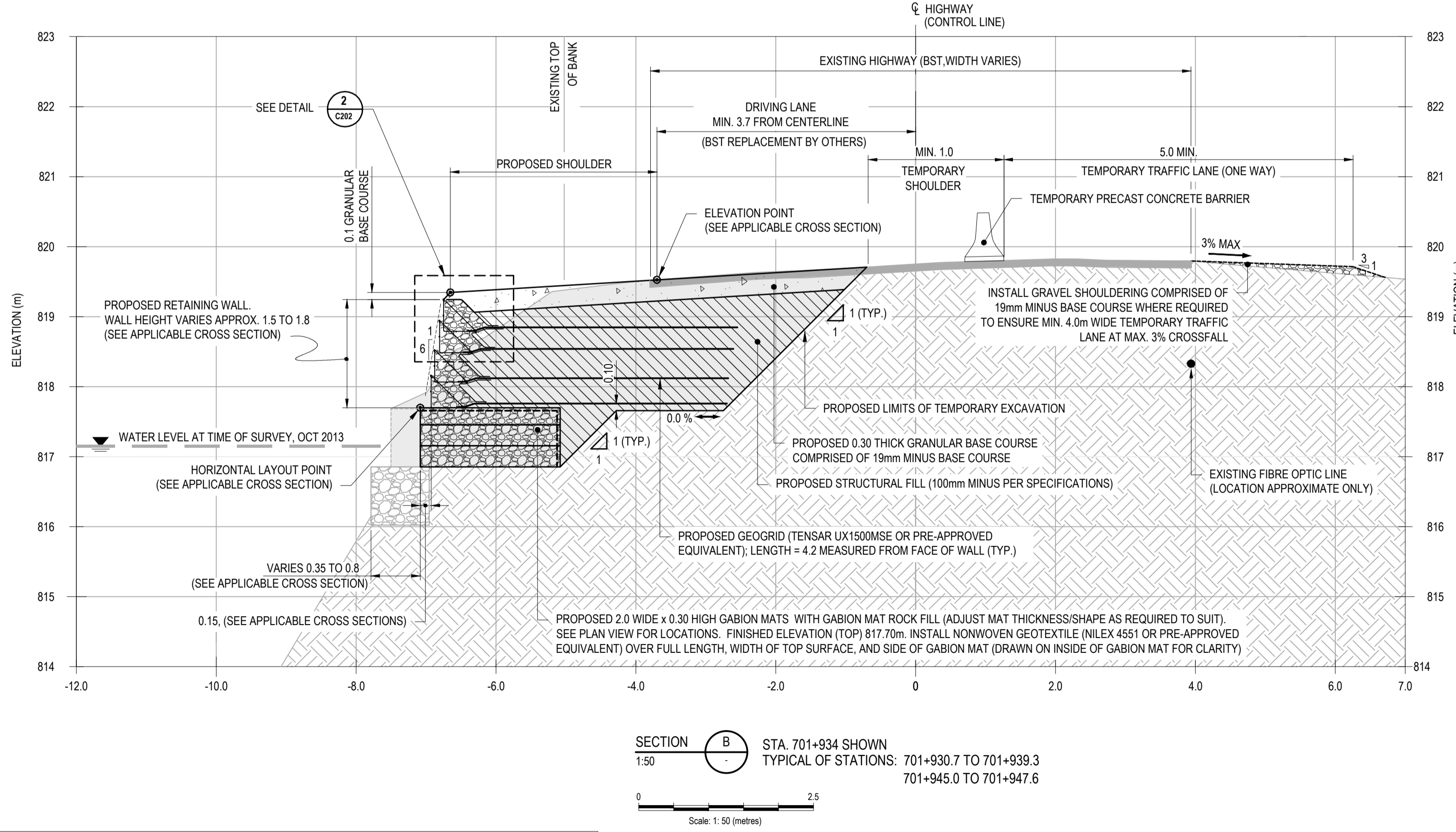
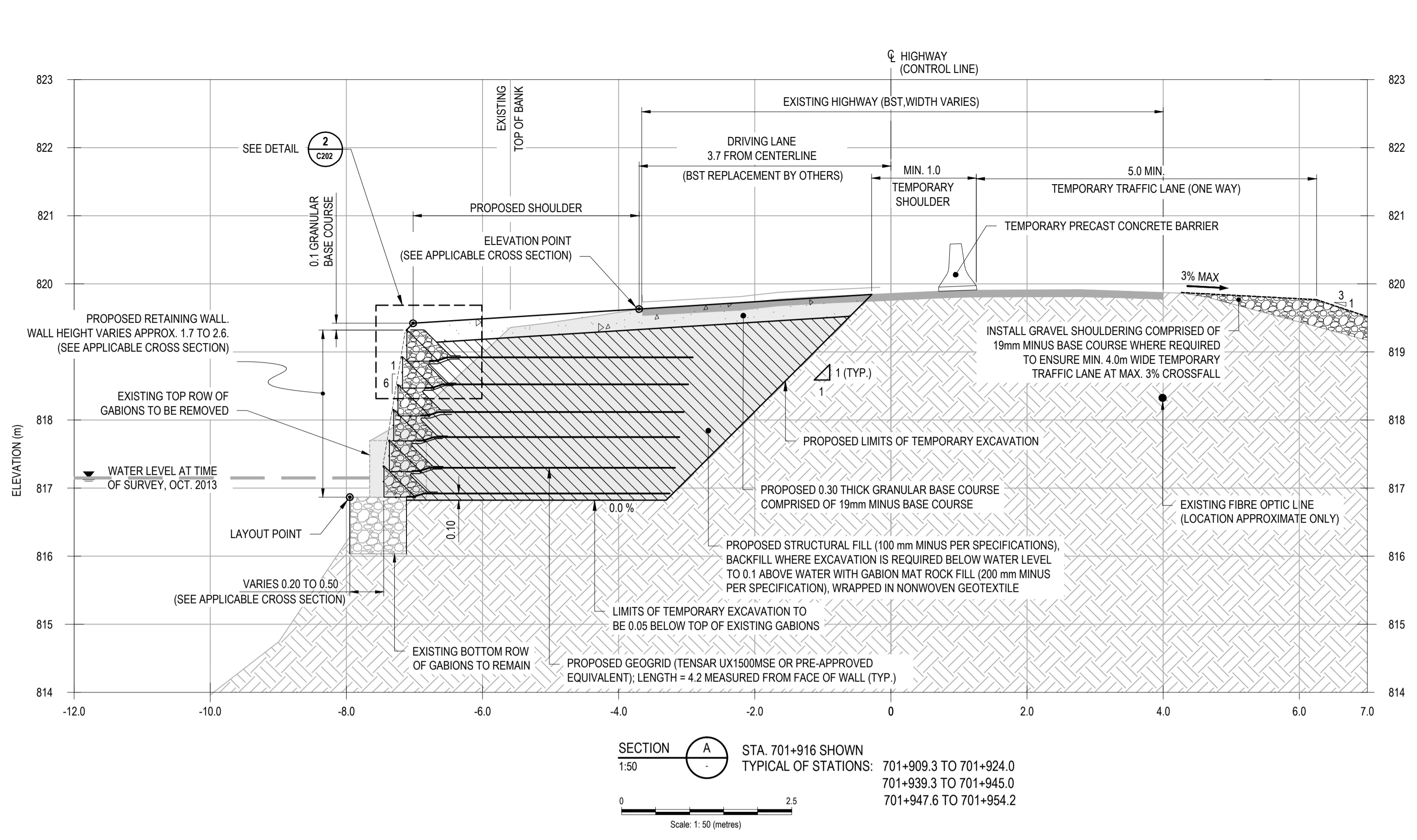
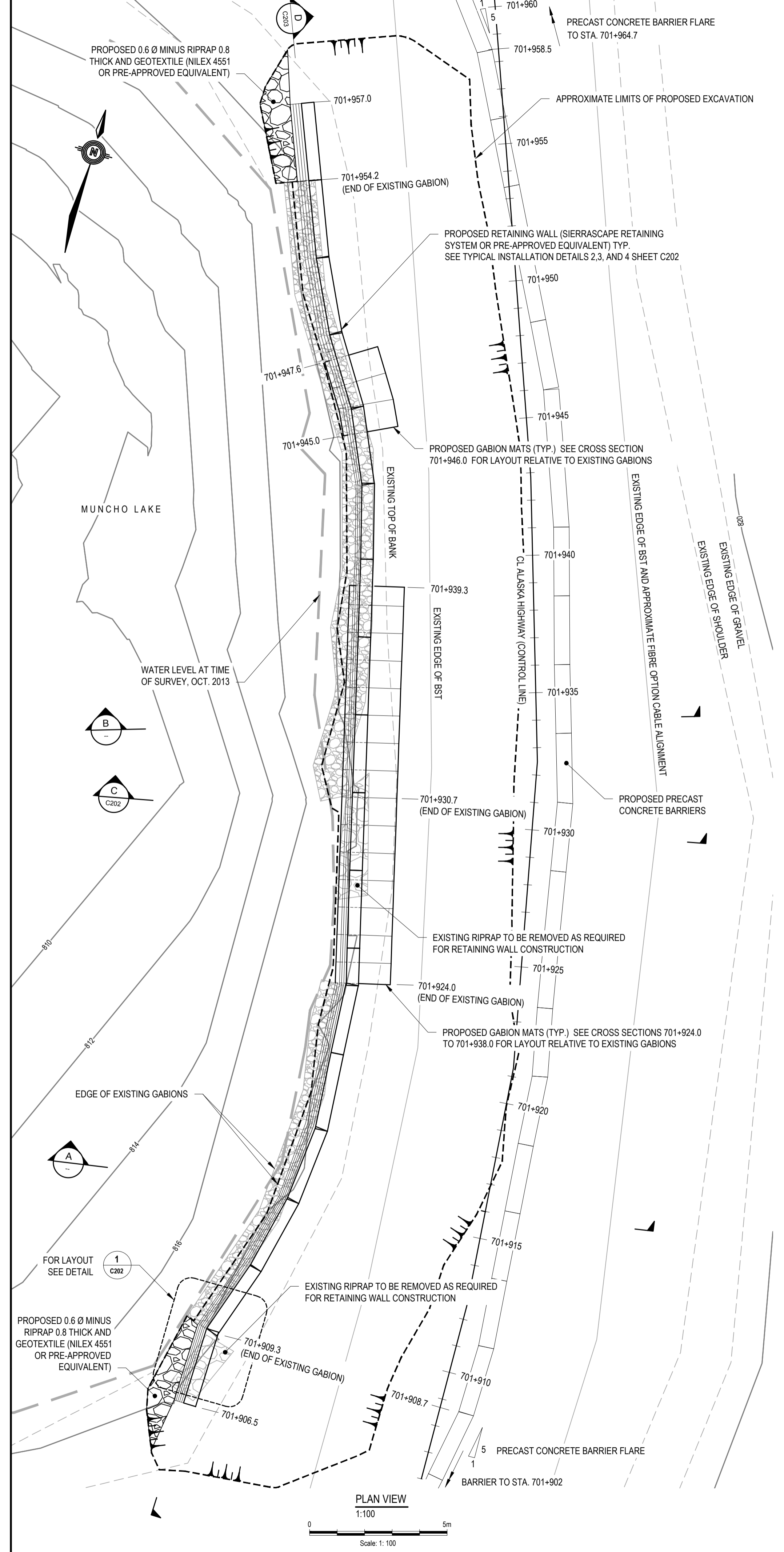
Drawn by/Dessiné par
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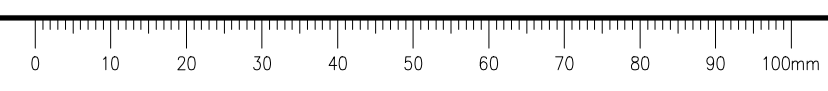
Client/client
PWGSC

Drawing title/Titre du dessin
RETAINING WALL PLAN AND TYPICAL SECTIONS (AREA 2)

Project No./No. du projet	Sheet/Fauille	Revision no./Révision no.
R017173.030	C201 OF C303	1

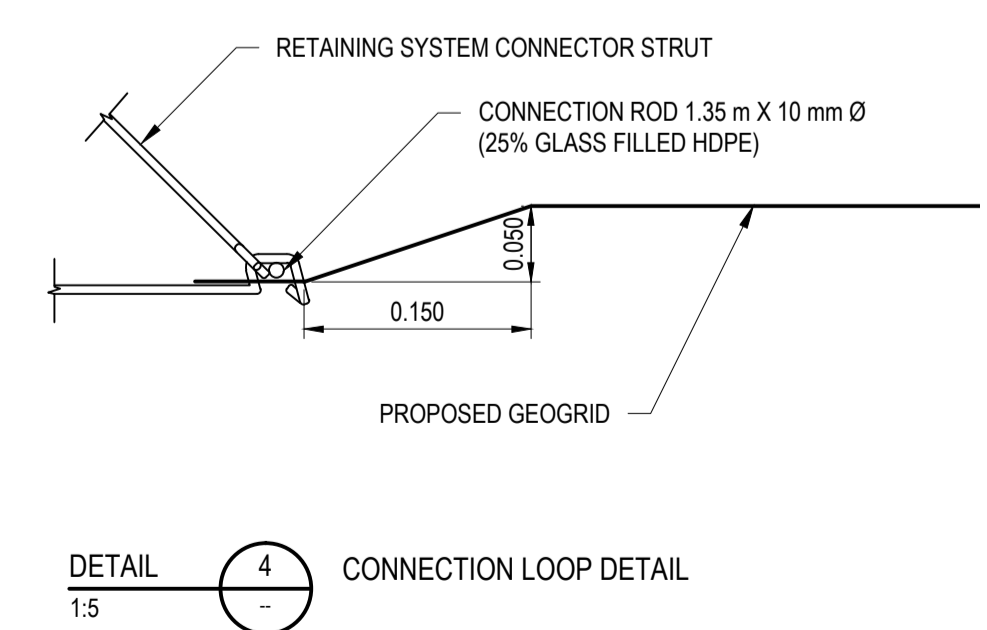
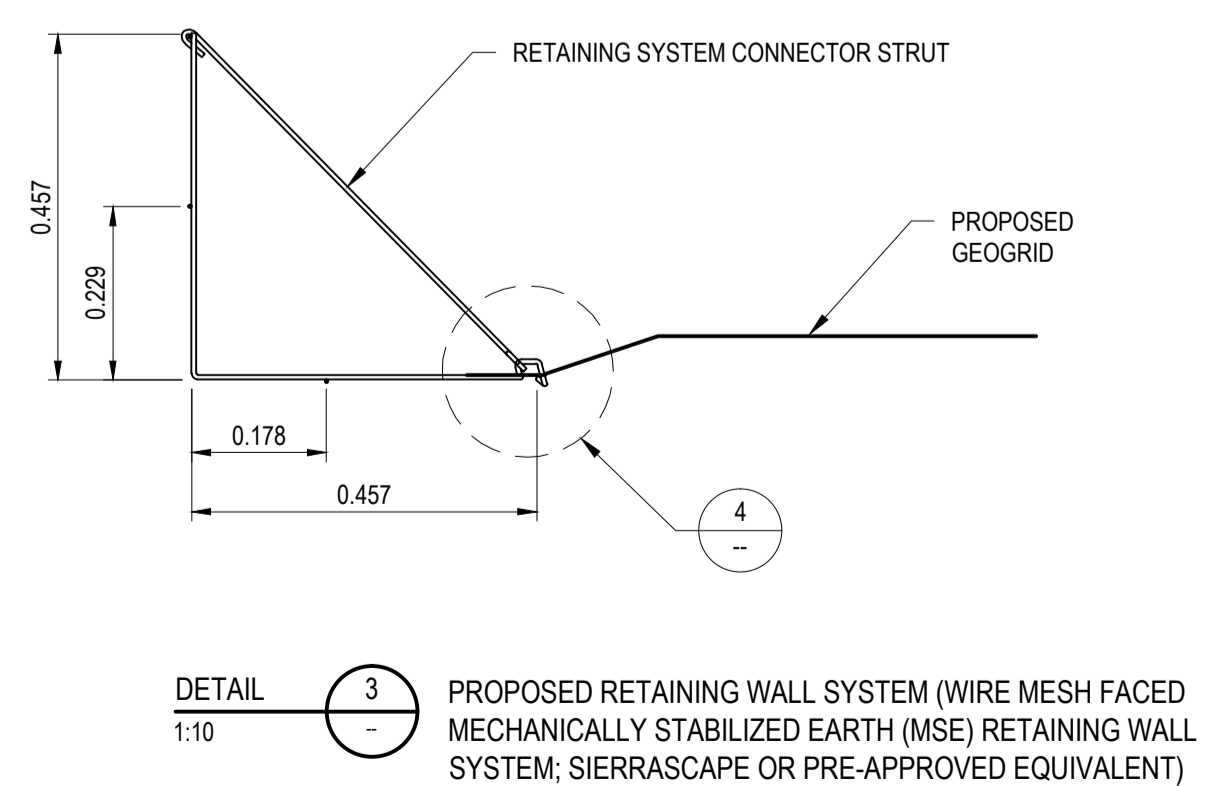
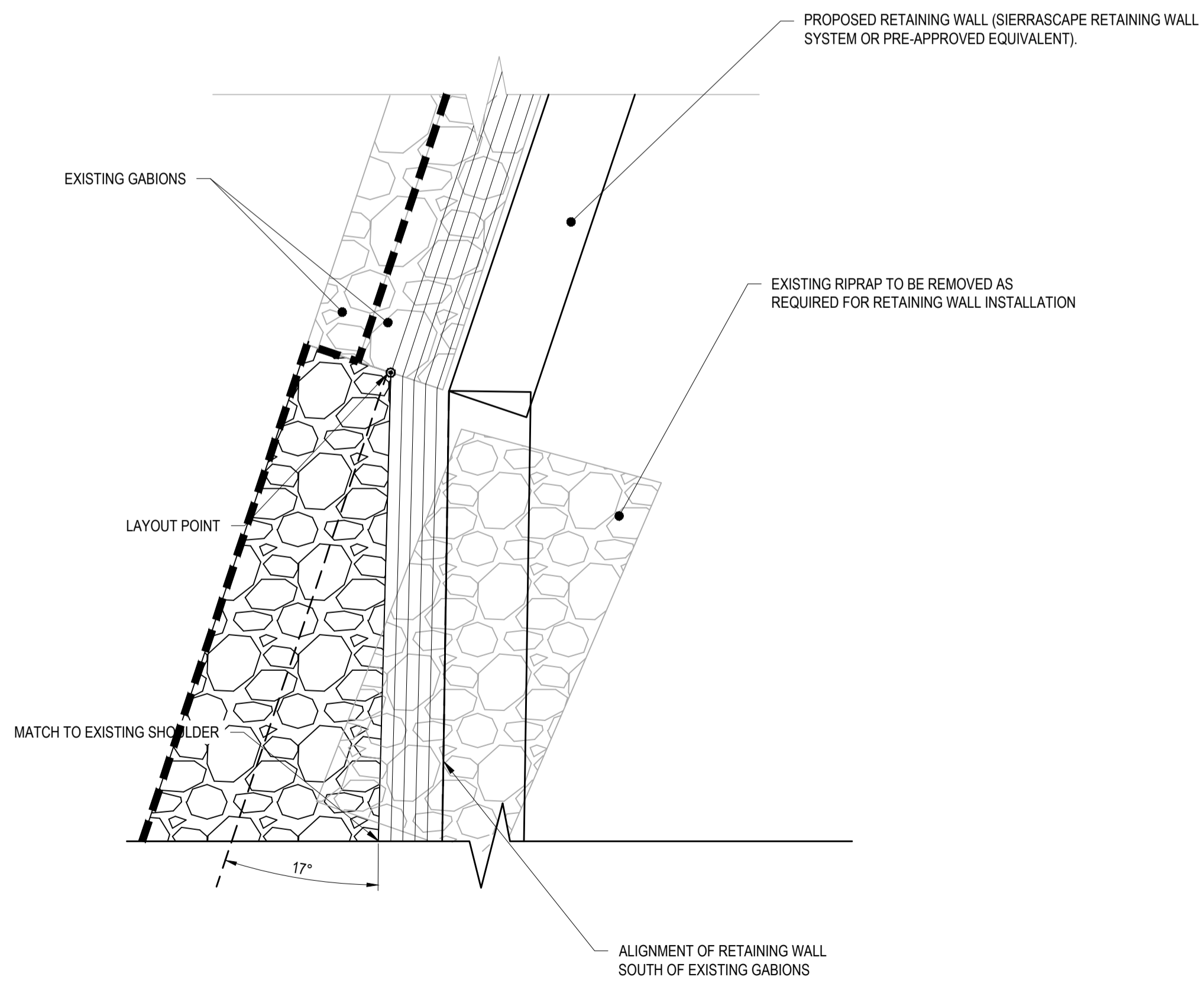
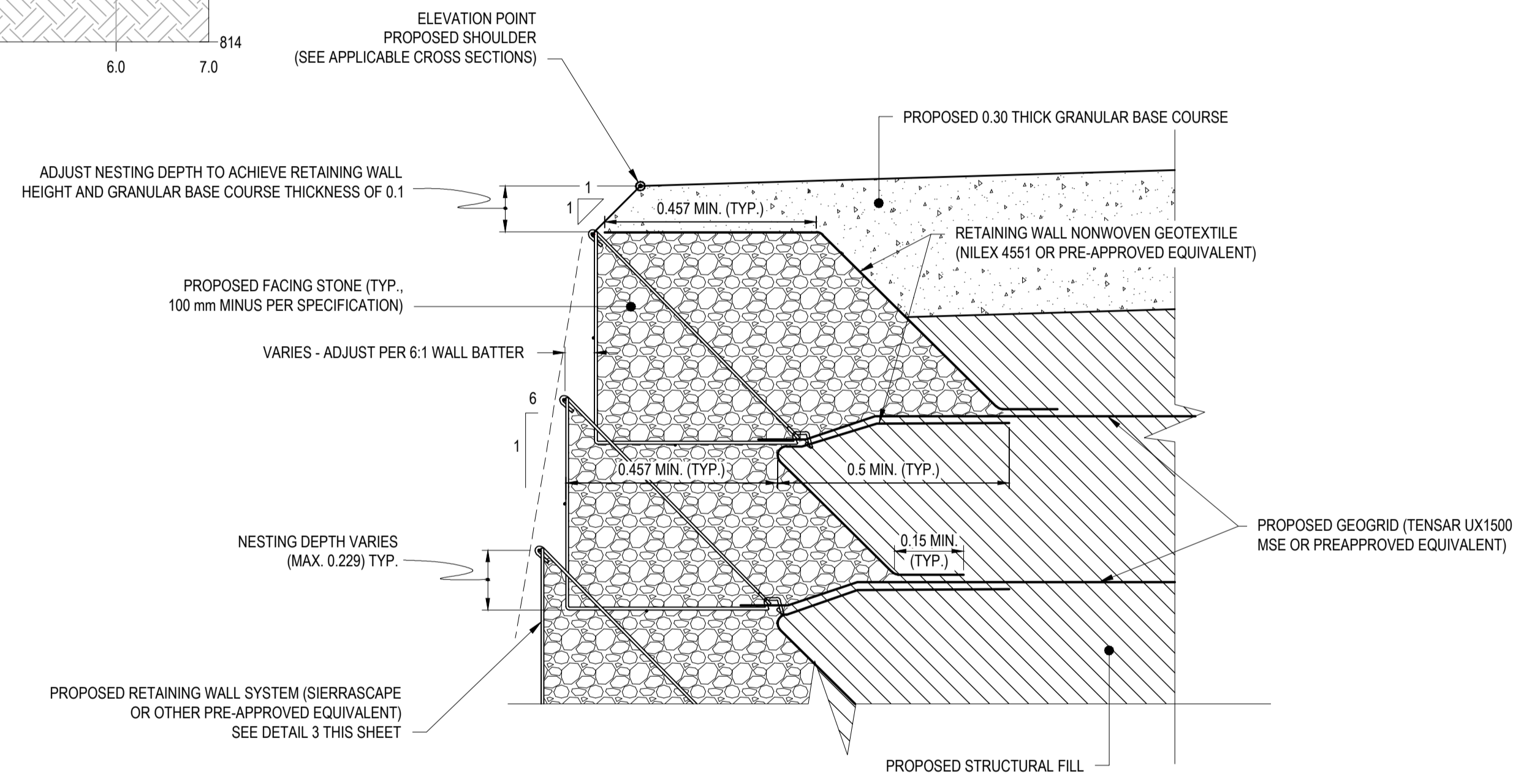
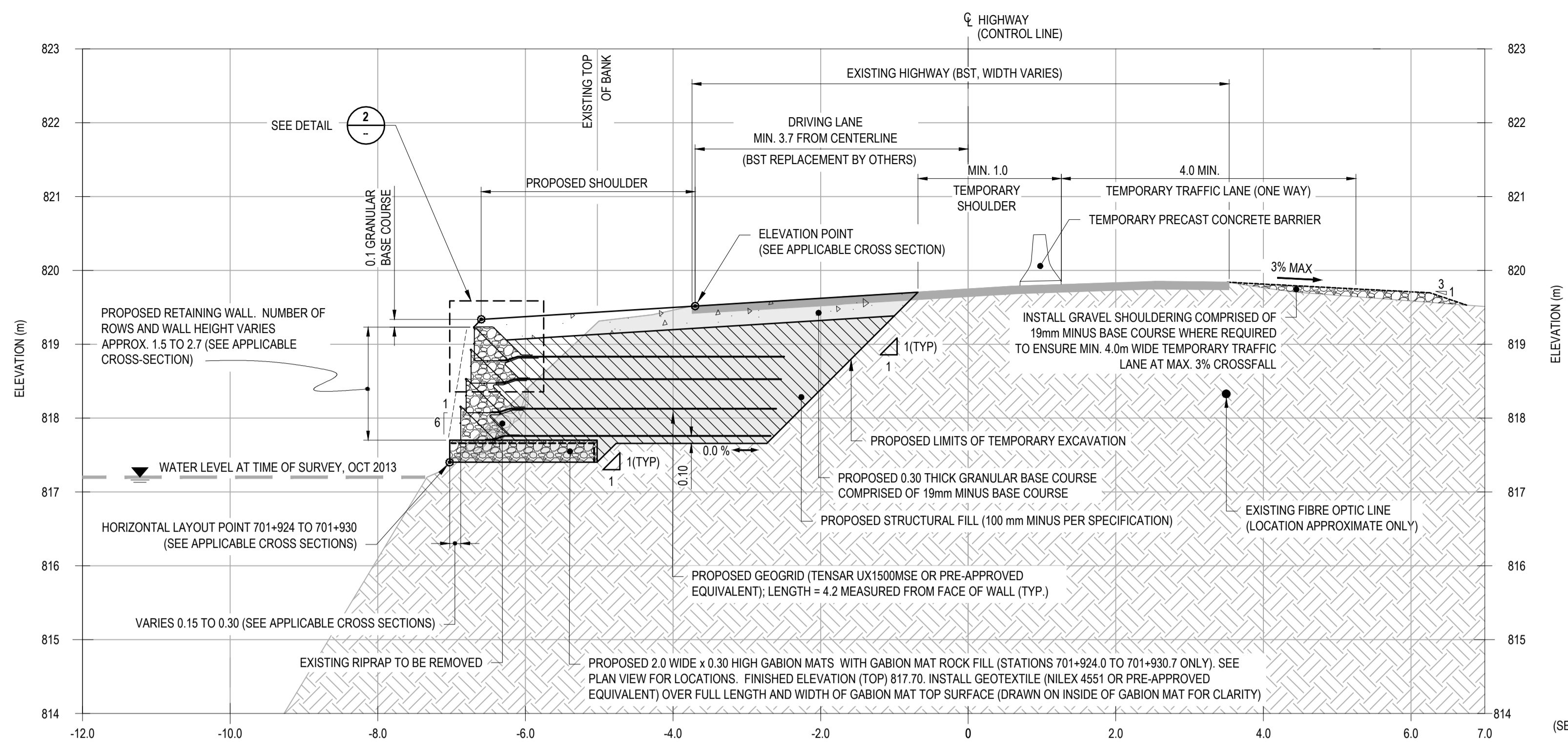


- SUGGESTED CONSTRUCTION SEQUENCING (AREA 2)
- INSTALL TEMPORARY TRAFFIC CONTROL DEVICES (INCLUDING PRE-CAST CONCRETE BARRIERS, GRAVEL SHOULDERING, AND SIGNAGE) FOR ONE-WAY TRAFFIC.
 - COMPLETE EXCAVATION AND REMOVAL OF RIPRAP AND EXISTING GABIONS DESIGNATED FOR REMOVAL.
 - INSTALL GABION MATS AND RETAINING WALL.
 - BACKFILL WITH STRUCTURAL FILL AND GRANULAR BASE COURSE IN PREPARATION OF BST BY OTHERS.
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PROFESSIONAL ENGINEER
 G. E. WILKINS
 CIVIL
 2014

PROFESSIONAL ENGINEER
 J. PELLETT
 GEOTECHNICAL
 2014

SCALES AS SHOWN

Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2014/07/04

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



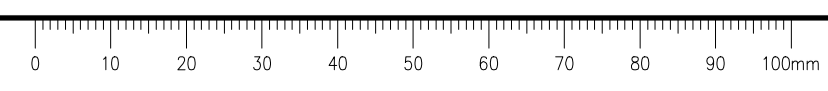
Project Title/Titre du projet
MUNCHO LAKE ROADSIDE STABILIZATION RETAINING WALLS

Approved by/Approve par
J. PELLETT, G. WILKINS
 Designed by/Concept par
A. AFKHAM, A. HORWOOD
 Drawn by/Dessiné par
A. HERZOG
 PWGSC Project Manager/Administrateur de Projets TPSCG
A. TAHERI
 PWGSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSCG

Client/client
PWGSC

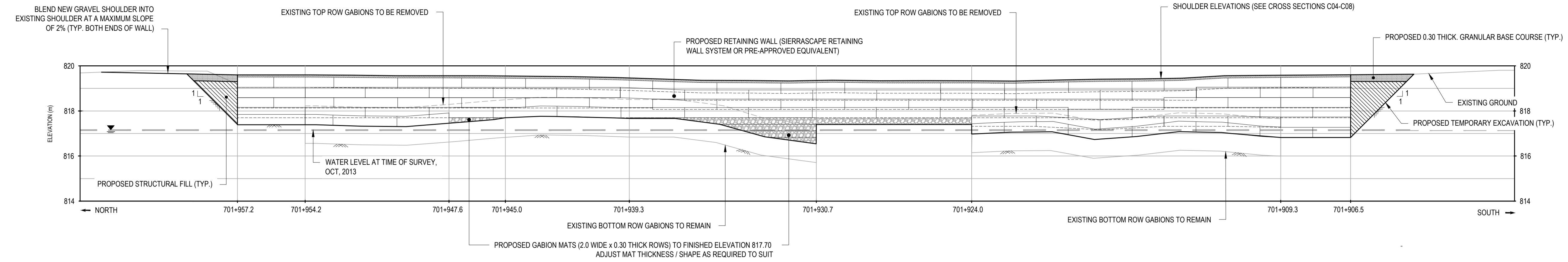
Drawing title/Titre du dessin
RETAINING WALL TYPICAL SECTIONS AND DETAILS (AREA 2)

Project No./No. du projet R017173.030	Sheet/Feuille C202 OF C303	Revision no./La Révision no. 1
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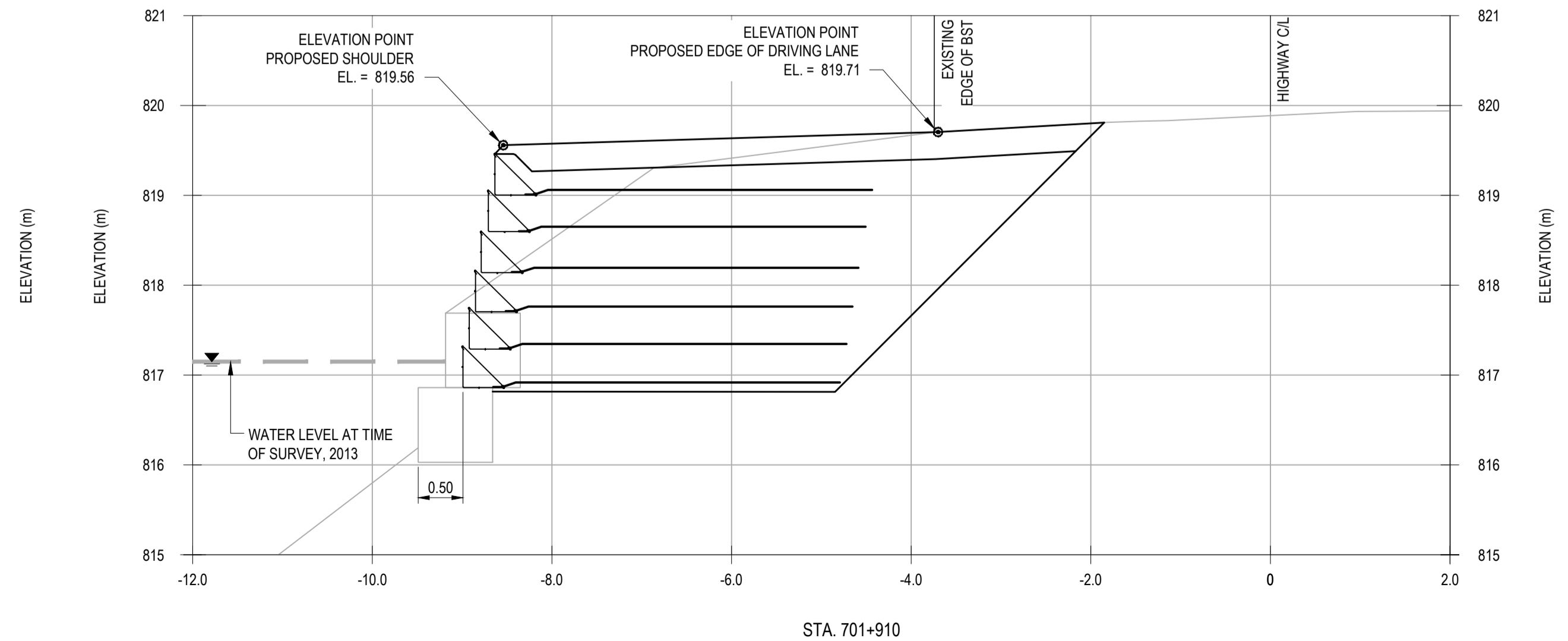
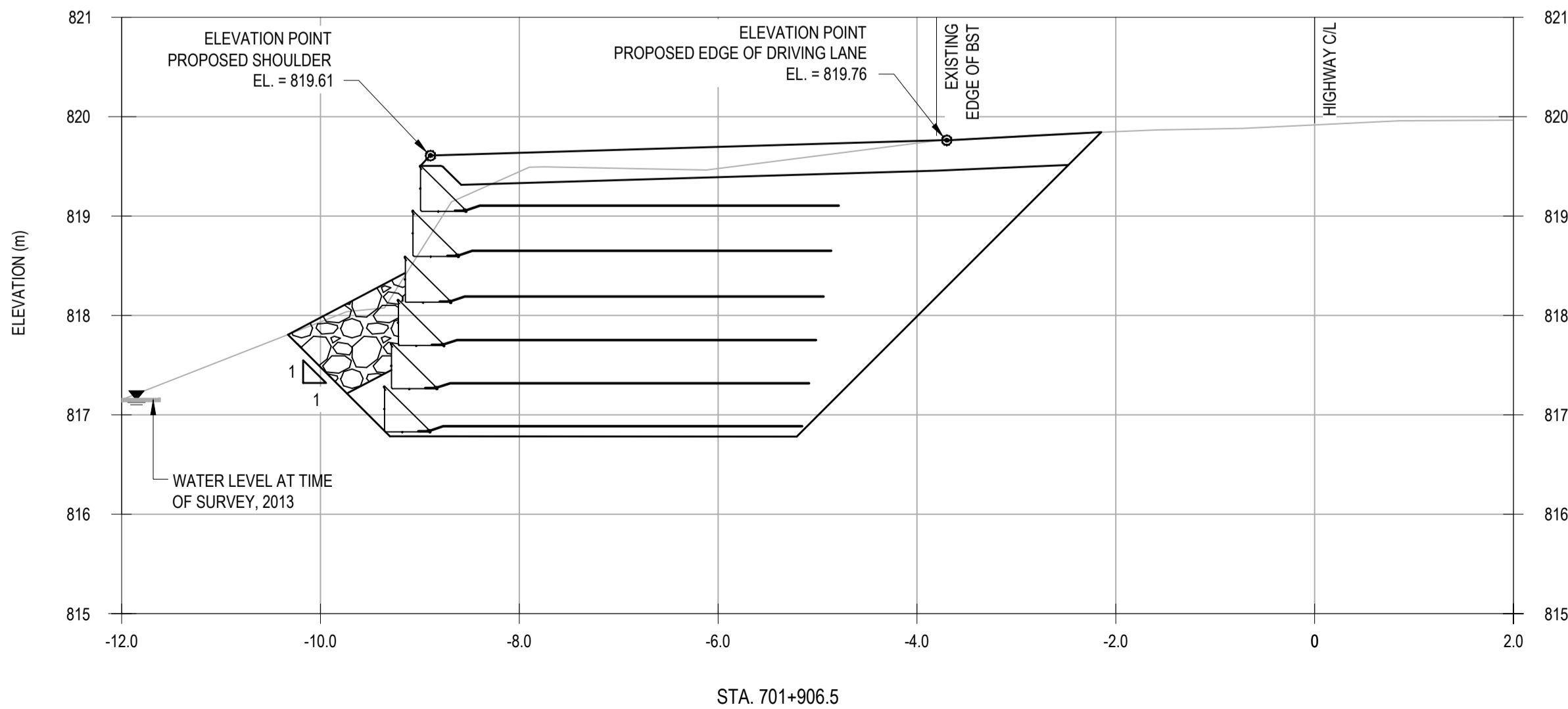
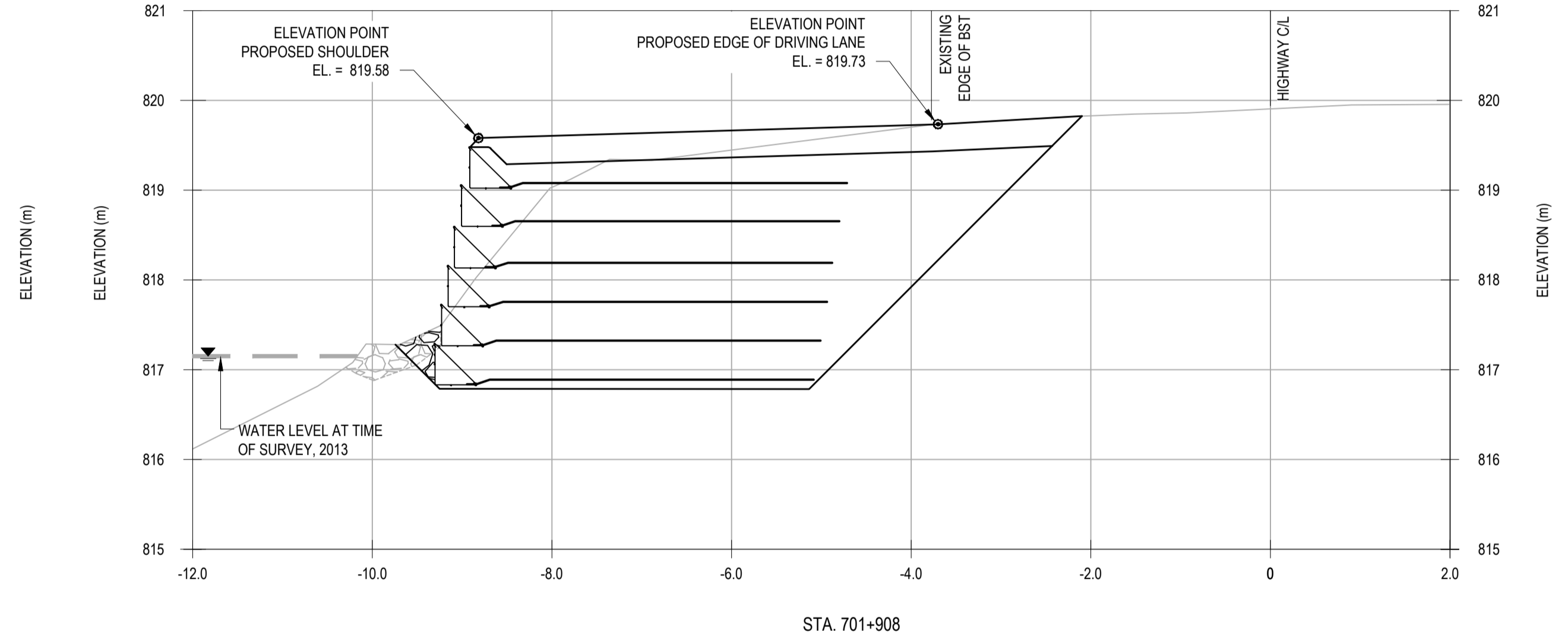
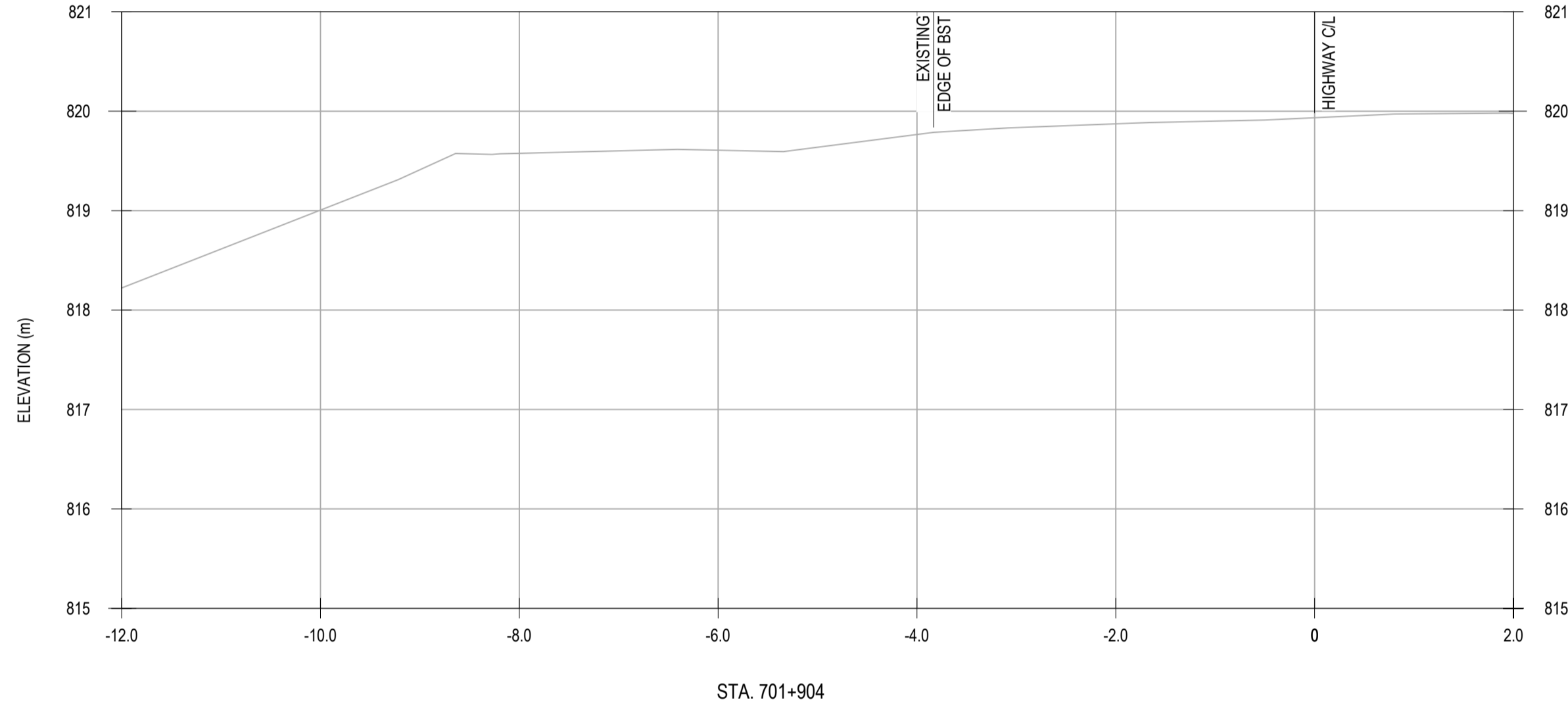


ISSUED FOR TENDER

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SECTION D
 1:100 RETAINING WALL ELEVATION VIEW
 Scale: 1:100



Professional Engineer
 G. E. WILKINS
 CIVIL
 Professional Engineer
 J. PELLETT
 GEOTECHNICAL

Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2014/07/04

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

TETRA TECH EBA

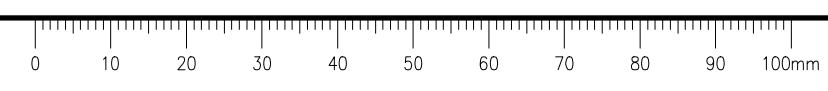
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Client/client
PWGSC

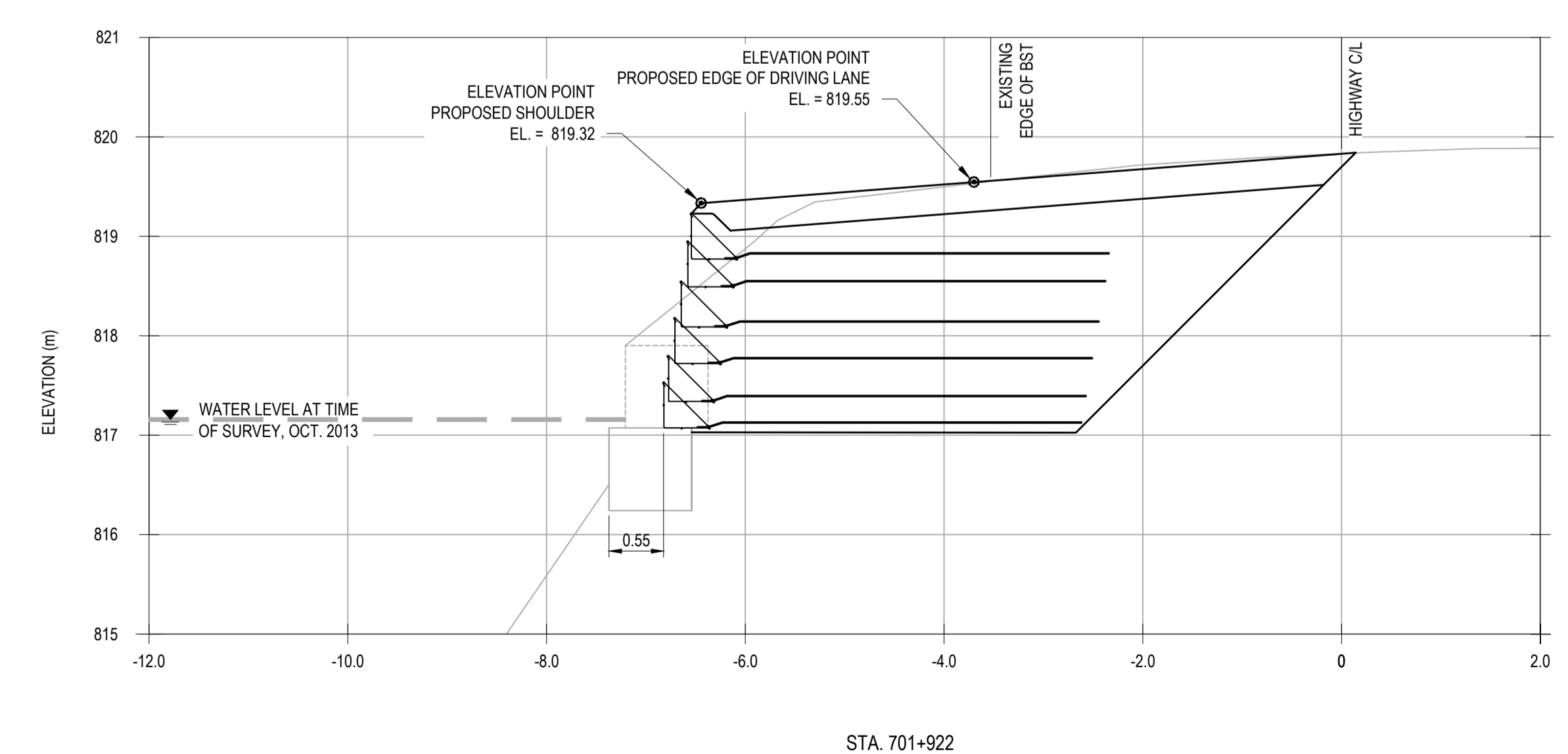
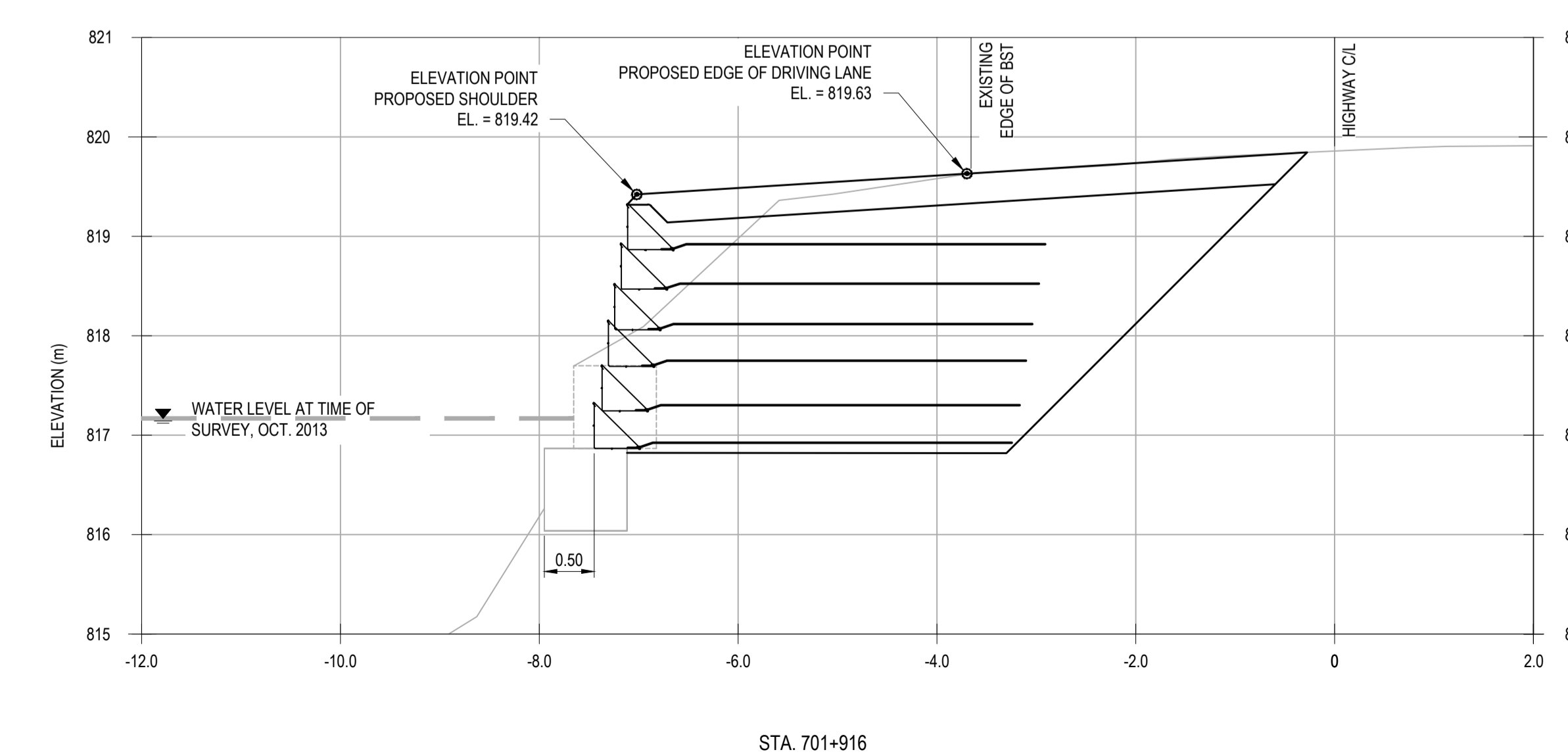
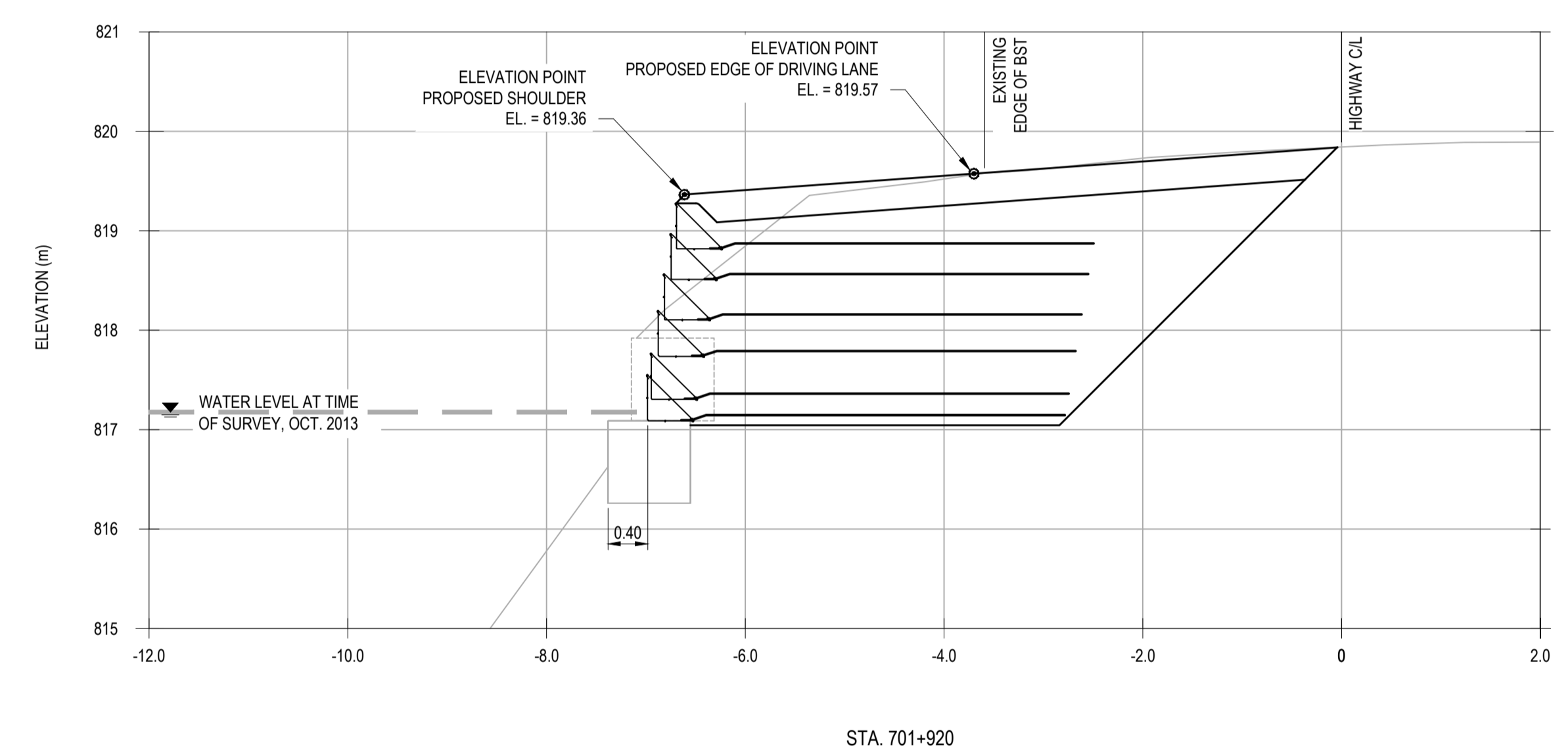
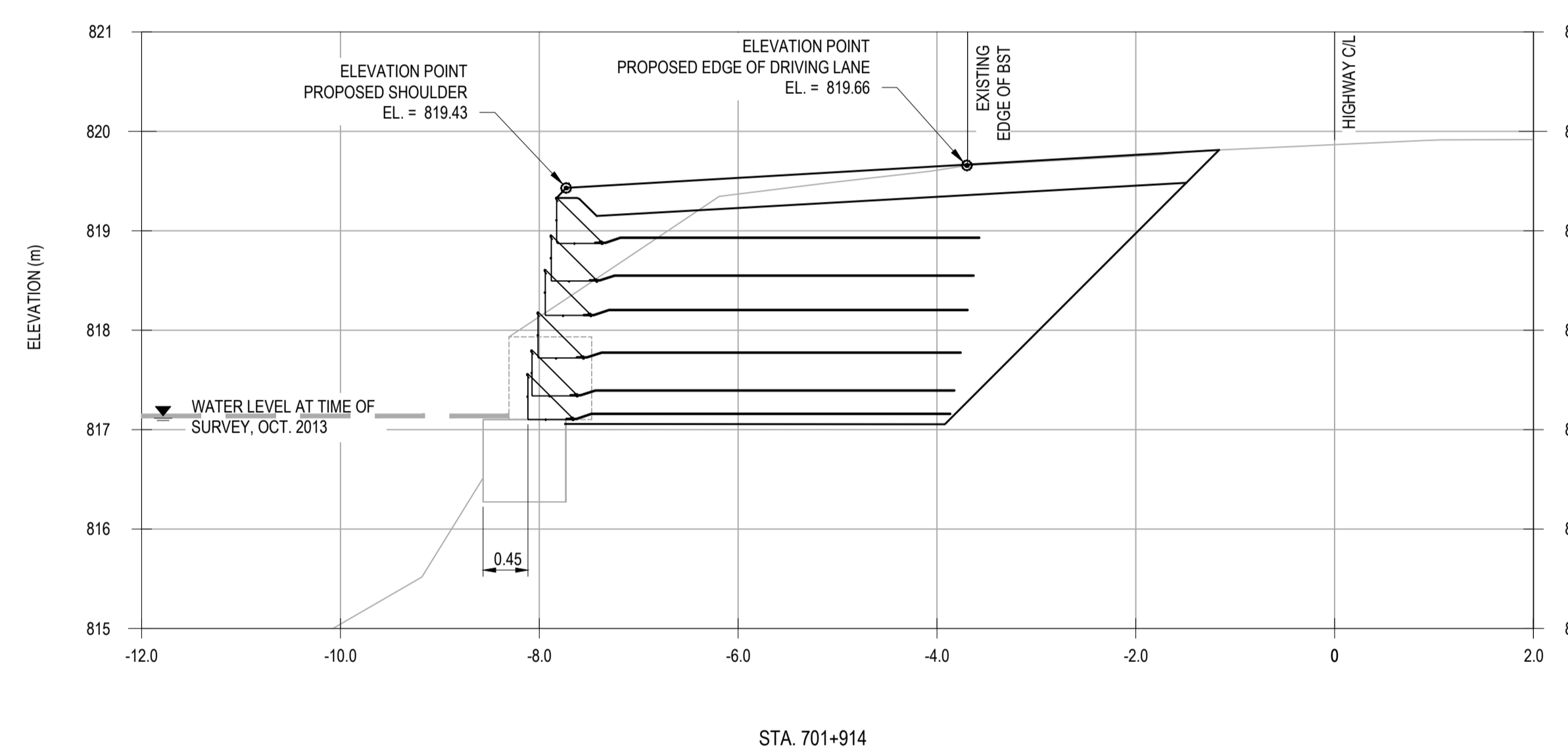
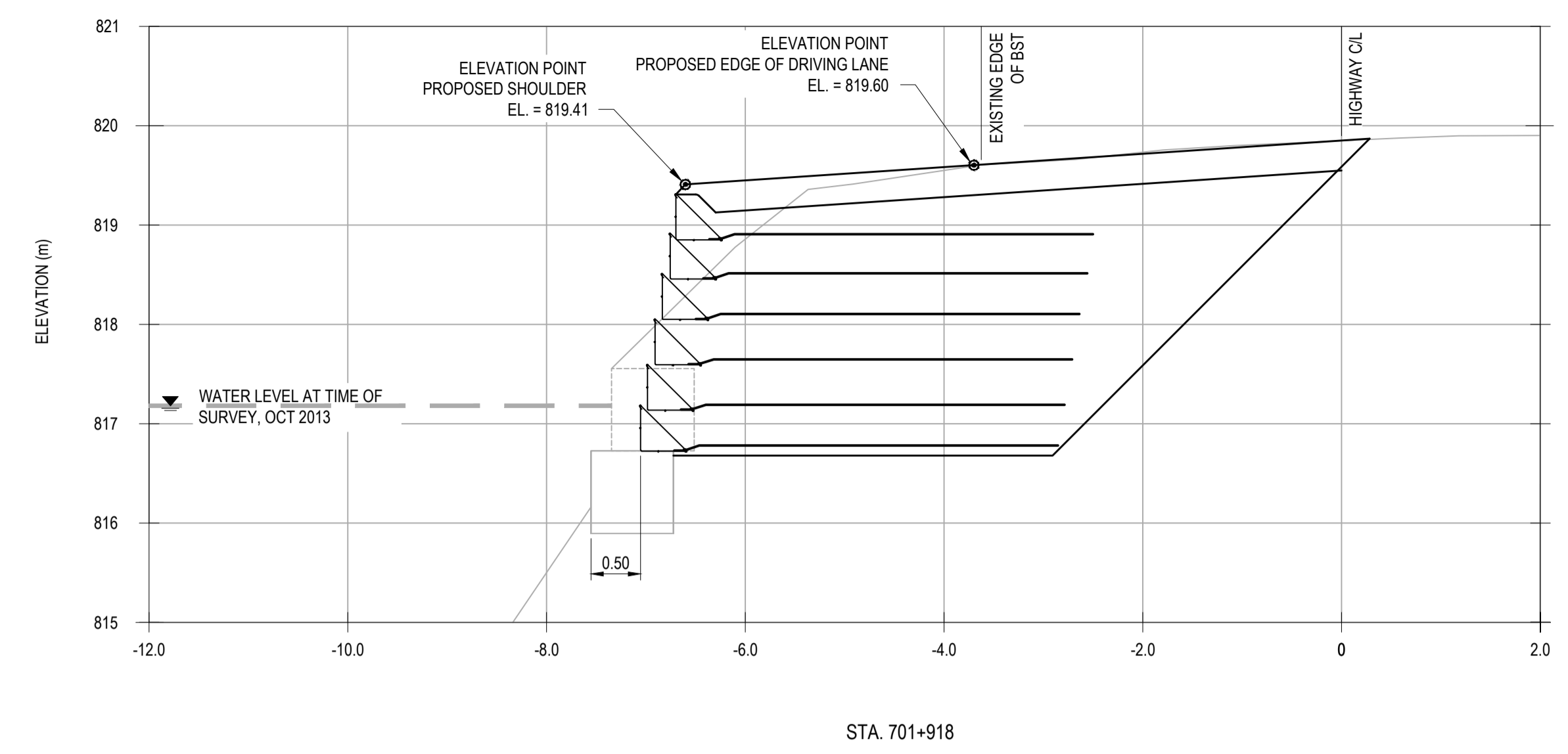
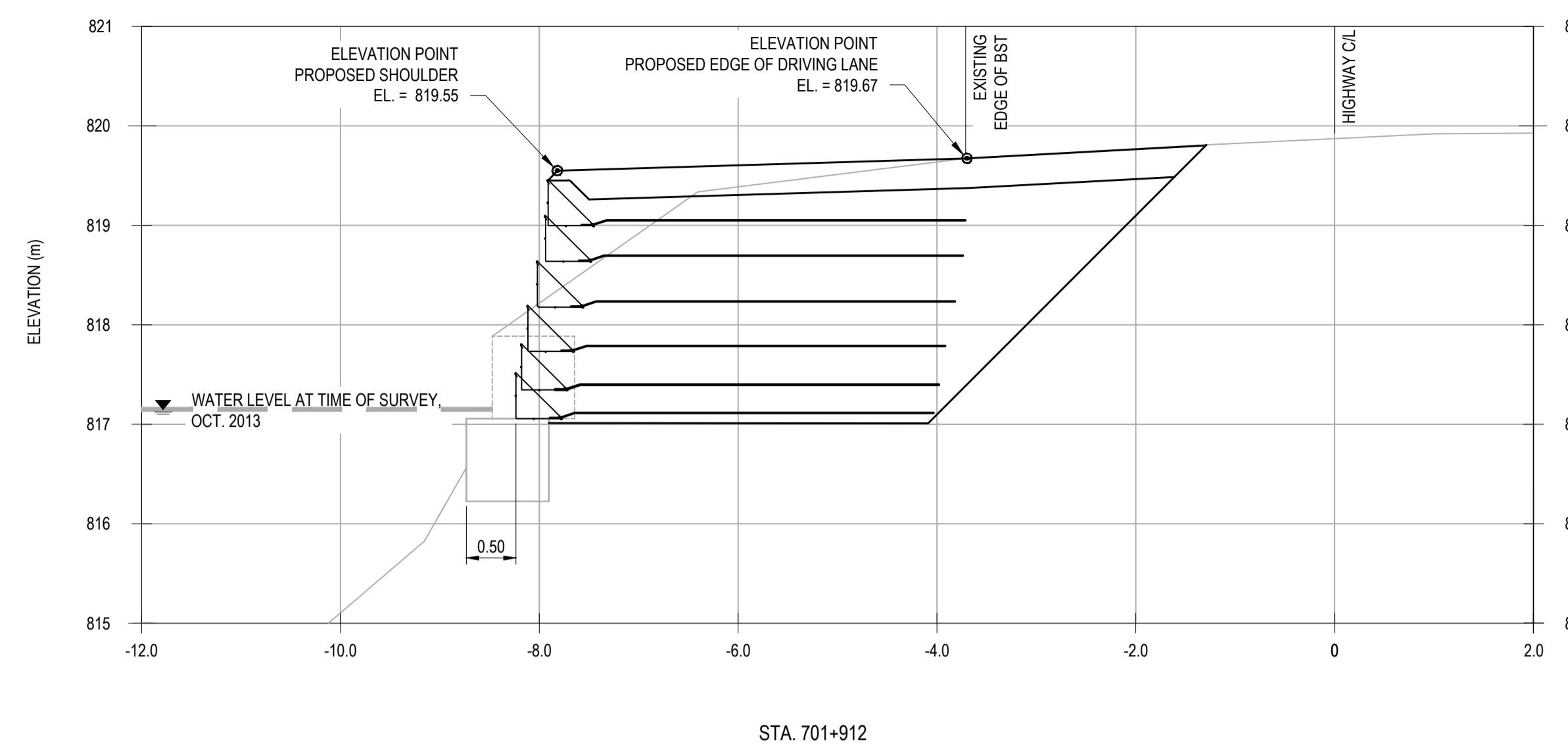
Drawing title/Titre du dessin
RETAINING WALL ELEVATION VIEW AND CROSS SECTIONS 1 OF 5 (AREA 2)

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R017173.030	C203 OF C303	1

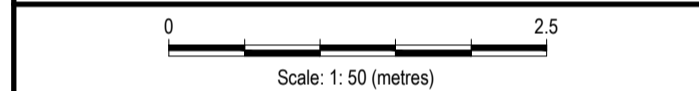


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Professional Engineer
 G. E. WILKINS
 CIVIL
 Professional Engineer
 J. PELLETT
 GEOTECHNICAL



Revision	Description/Description	Date/Date
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Client/client
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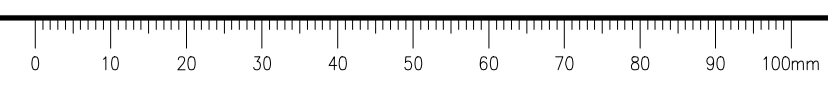
Project Title/Titre du projet
MUNCHO LAKE ROADSIDE STABILIZATION RETAINING WALLS

Approved by/Approve par
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Client/client
PWGSC

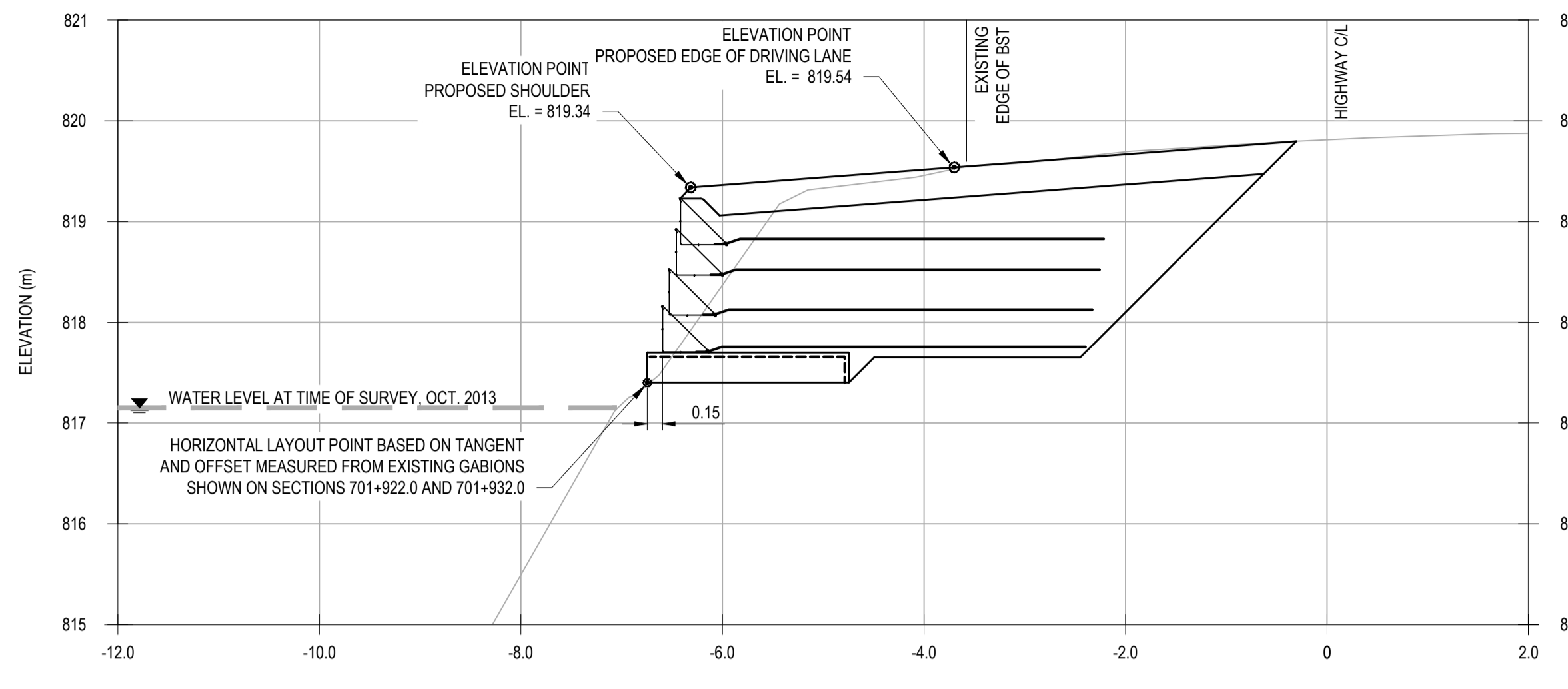
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RETAINING WALL CROSS SECTIONS 2 OF 5 (AREA 2)

Project No./No. du projet R017173.030	Sheet/Fauille C204 OF C303	Revision no./La Révision no. 1
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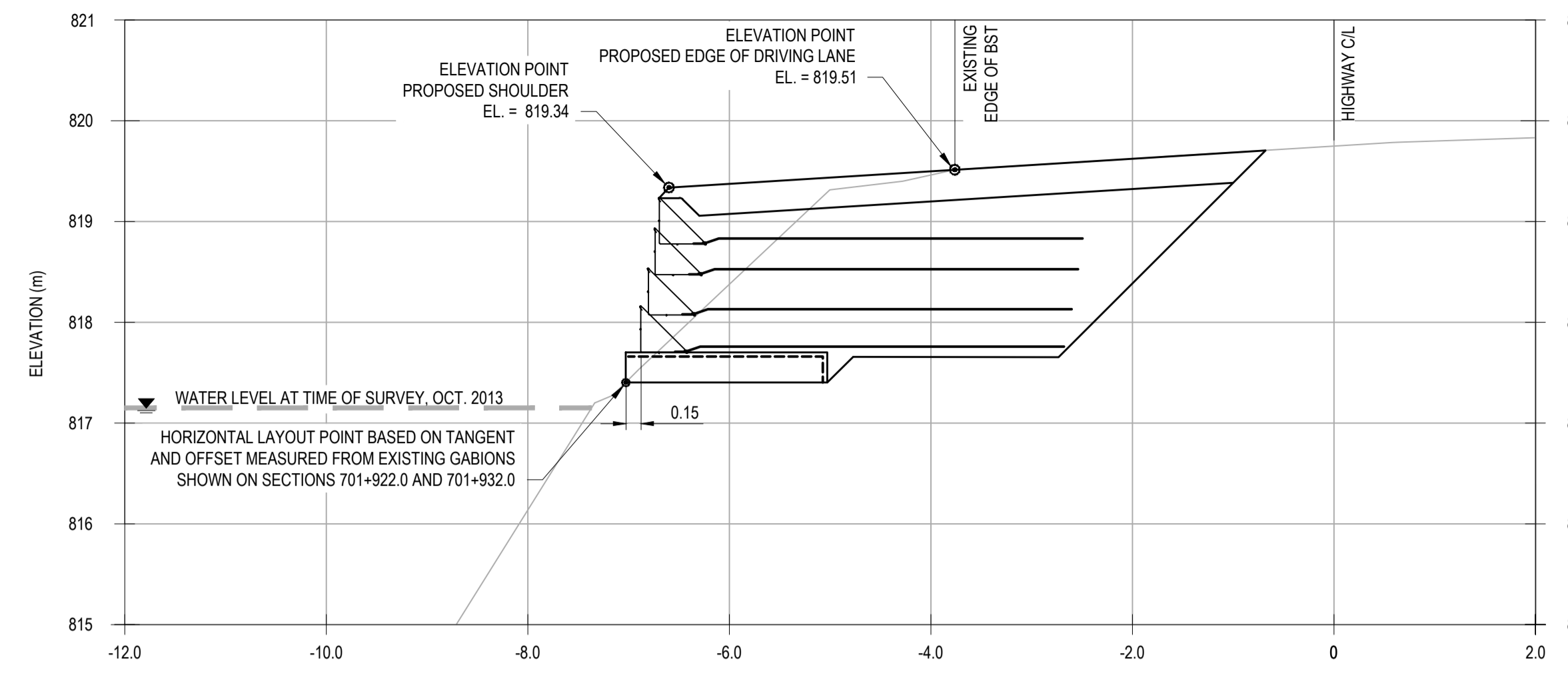


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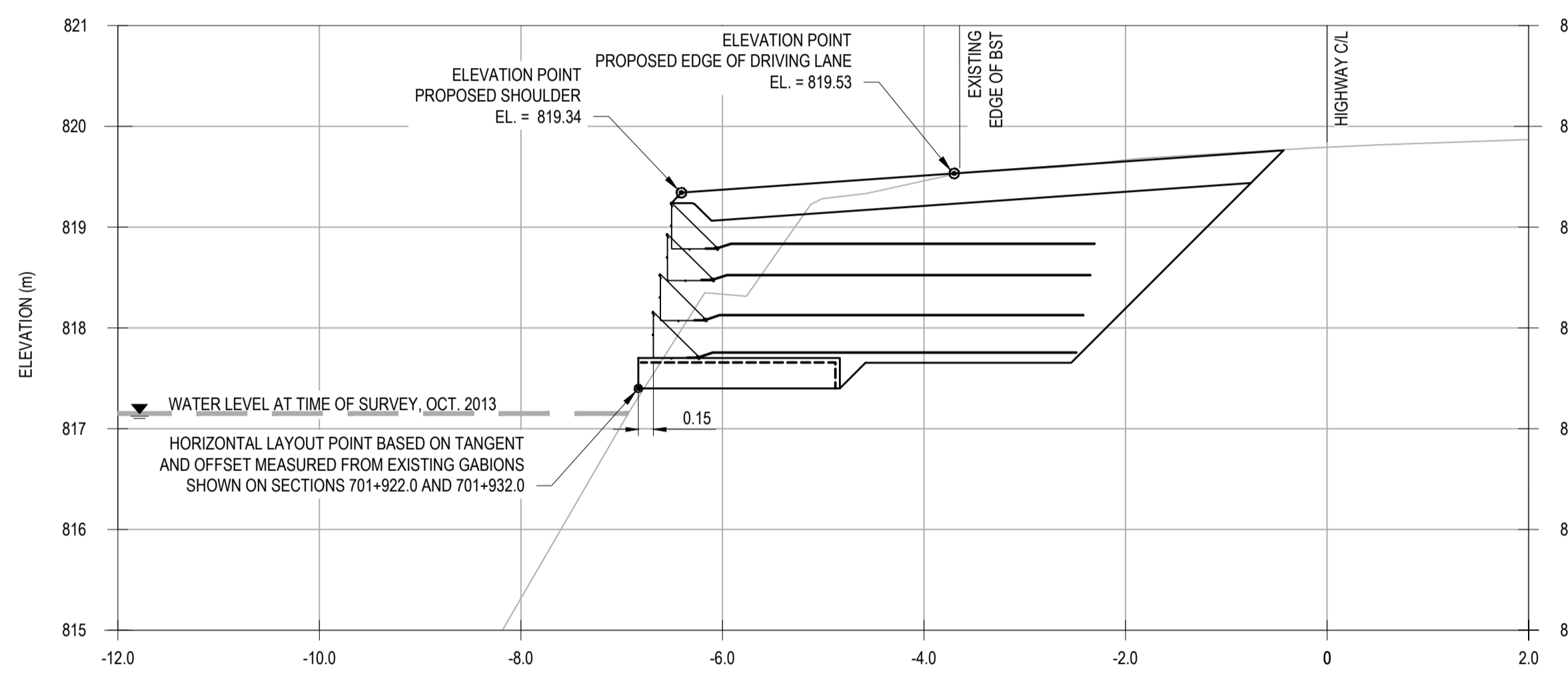


STA. 701+924

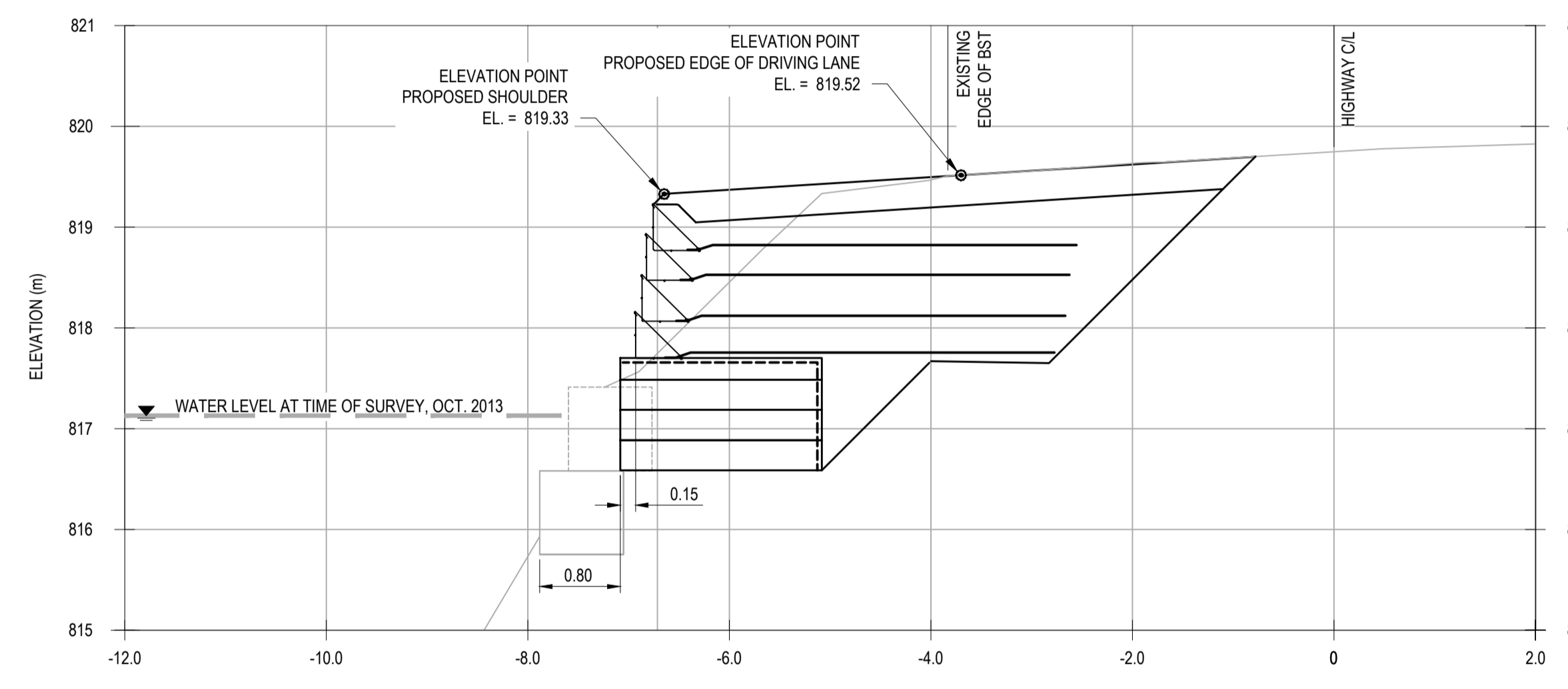


STA. 701+930

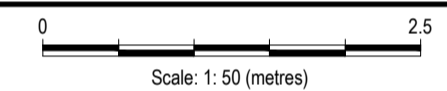
NONWOVEN GEOTEXTILE TO BE PLACED ON OUTSIDE OF GABION MATS, DRAWN ON INSIDE FOR CLARITY ONLY



STA. 701+926



STA. 701+932



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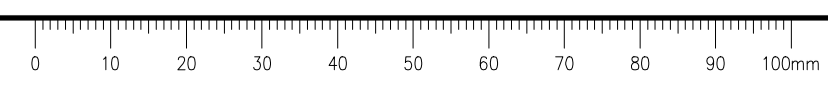
Project title/Titre du projet
MUNCHO LAKE ROADSIDE STABILIZATION RETAINING WALLS

Approved by/Approve par
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A. AFKHAM, A. HORWOOD
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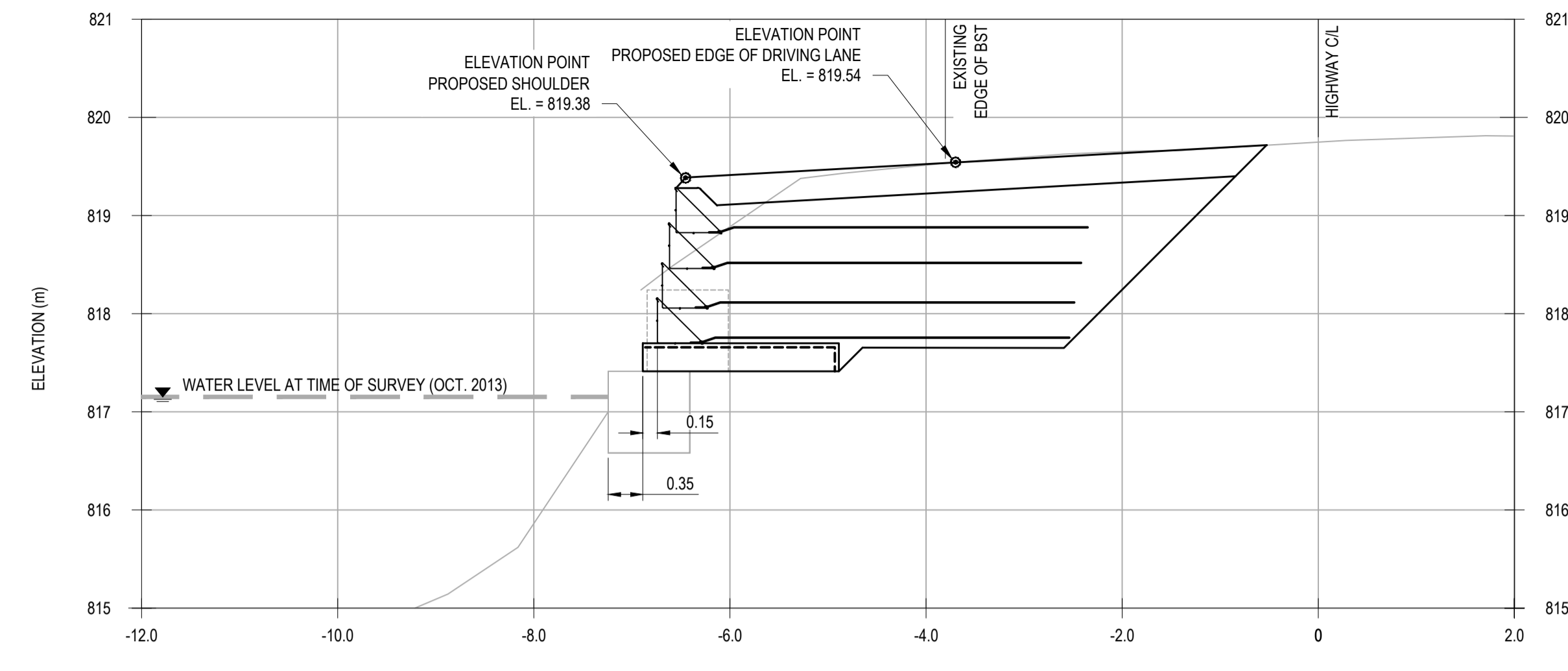
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RETAINING WALL CROSS SECTIONS 3 OF 5 (AREA 2)

Project No./No. du projet R017173.030	Sheet/Fauille C205 OF C303	Revision no./La Révision no. 1
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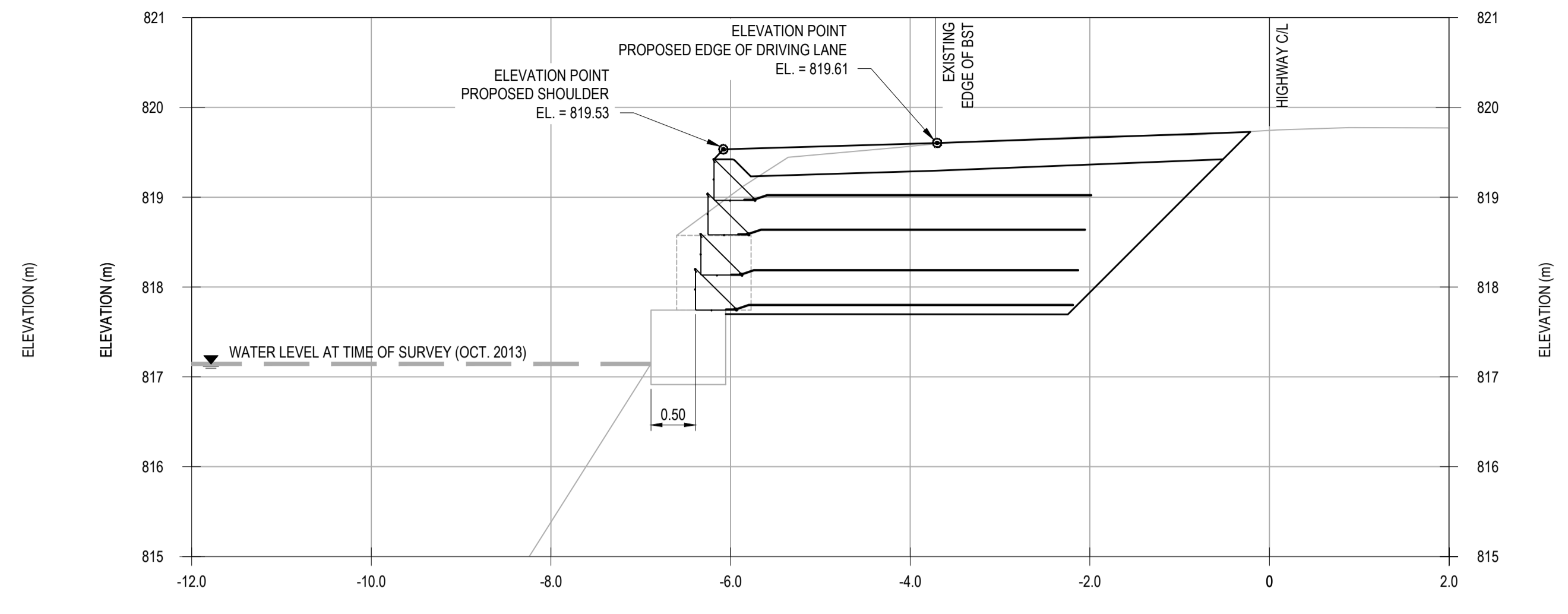
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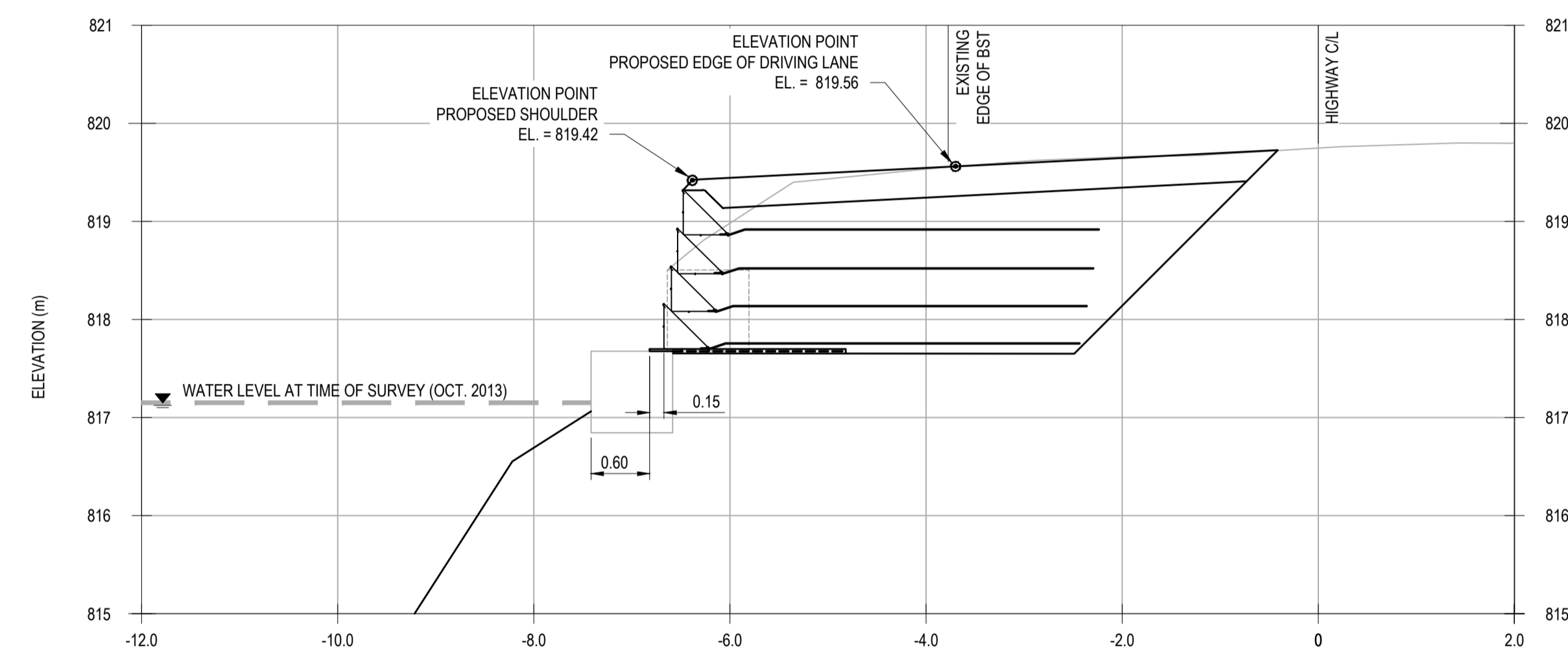


STA. 701+936

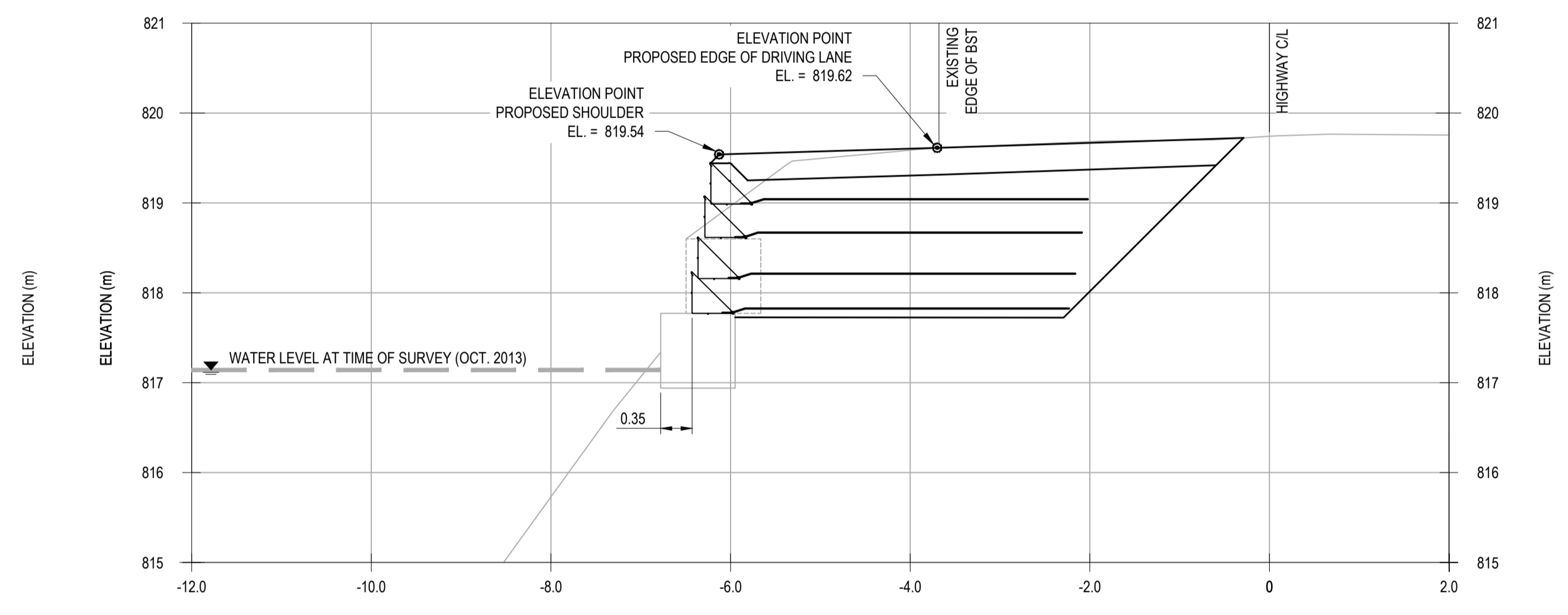
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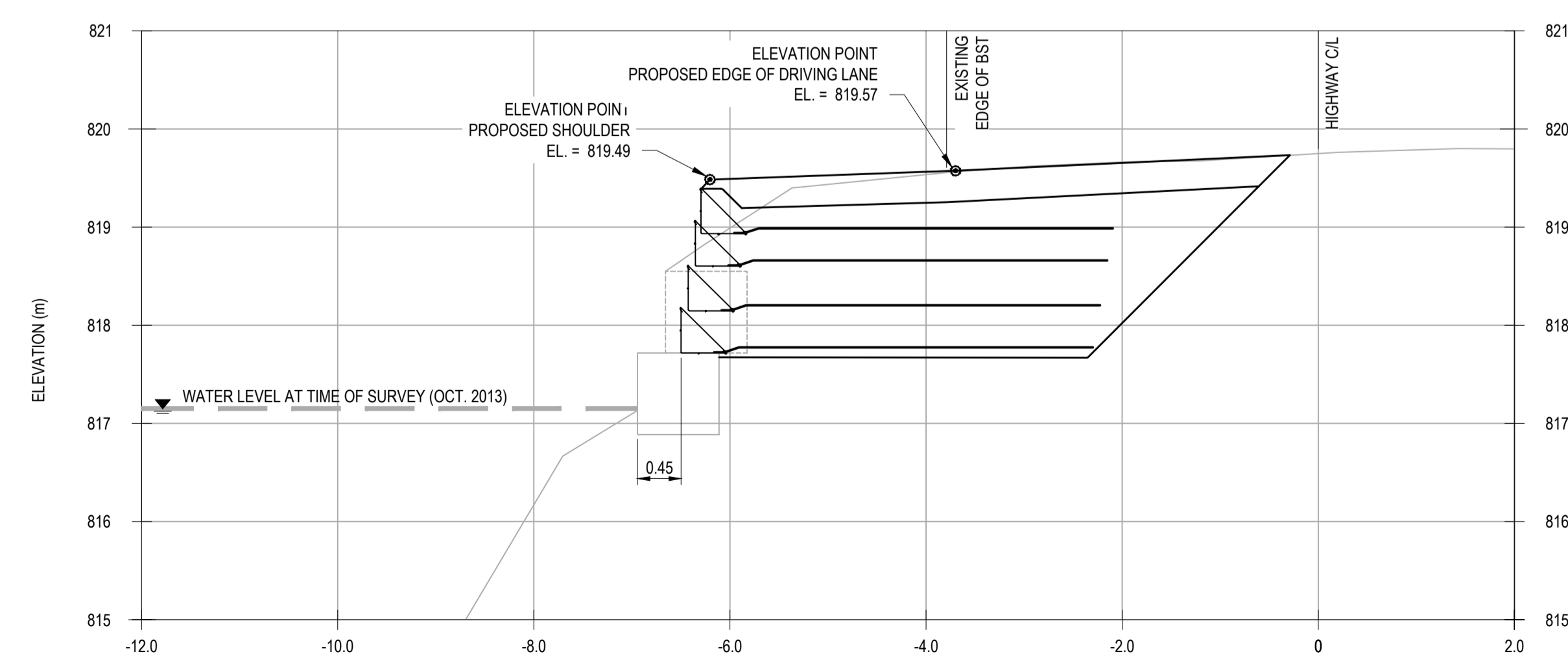
STA. 701+942



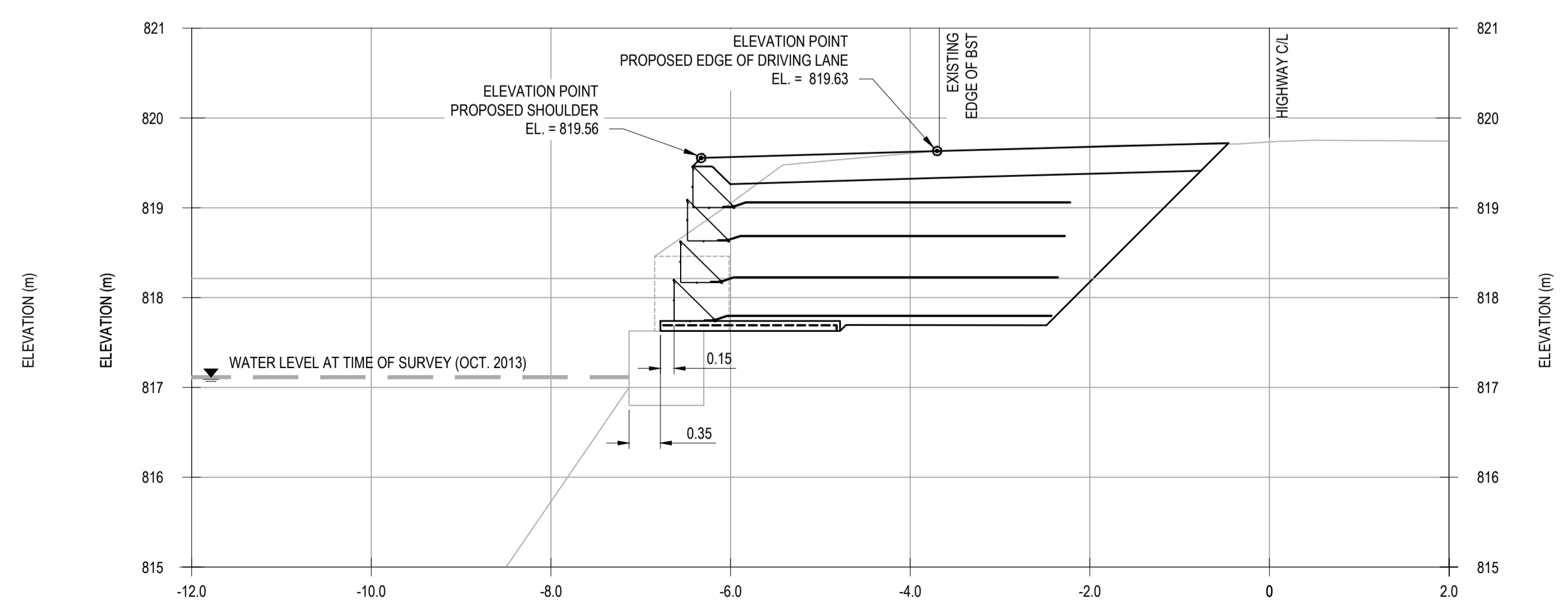
STA. 701+938



STA. 701+944



STA. 701+940



STA. 701+946

Professional Engineer
 G. E. WILKINS
 CIVIL
 Professional Engineer
 J. PELLETT
 32789
 GEOTECHNICAL

Scale: 1:50 (metres)

Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2014/07/04

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

TETRA TECH EBA

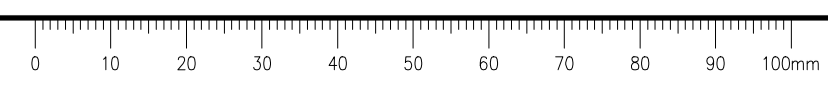
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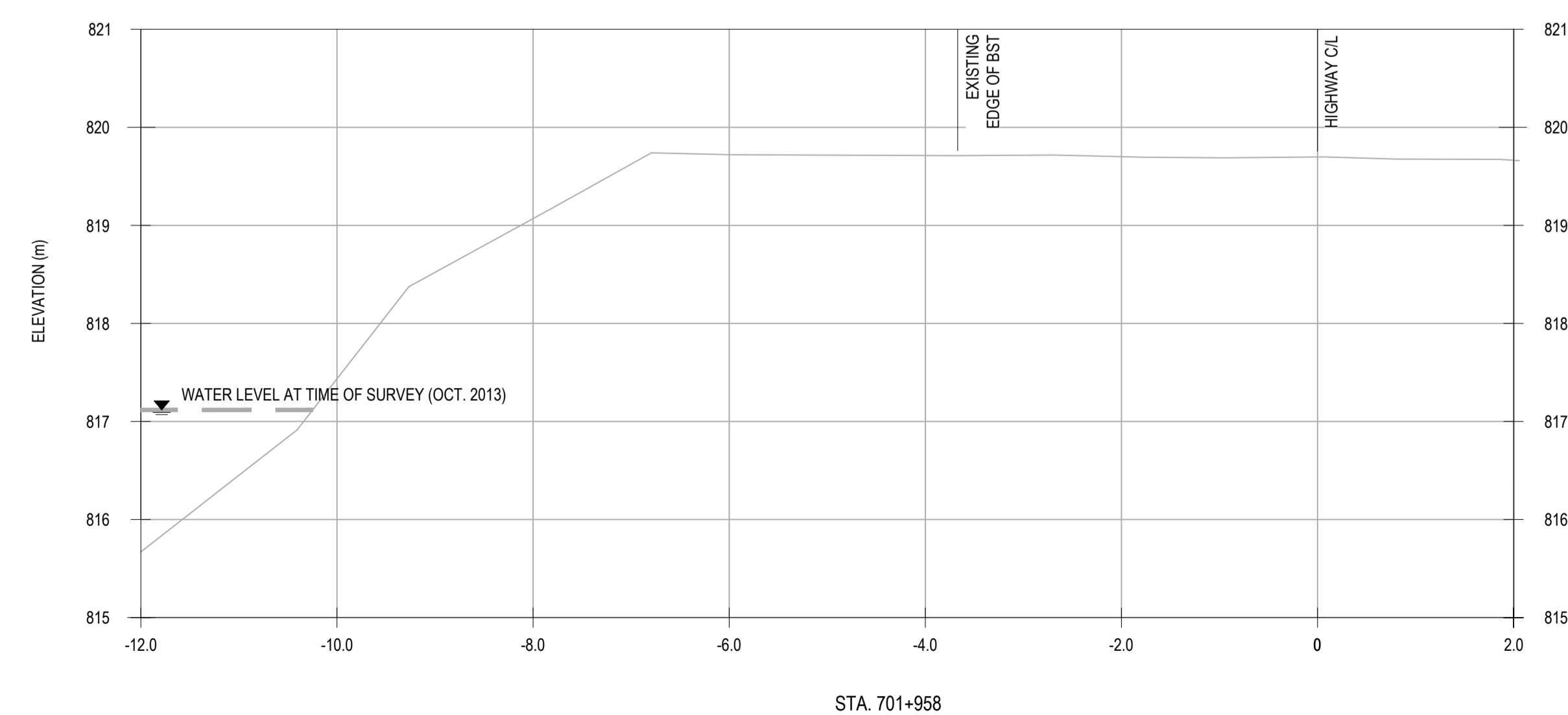
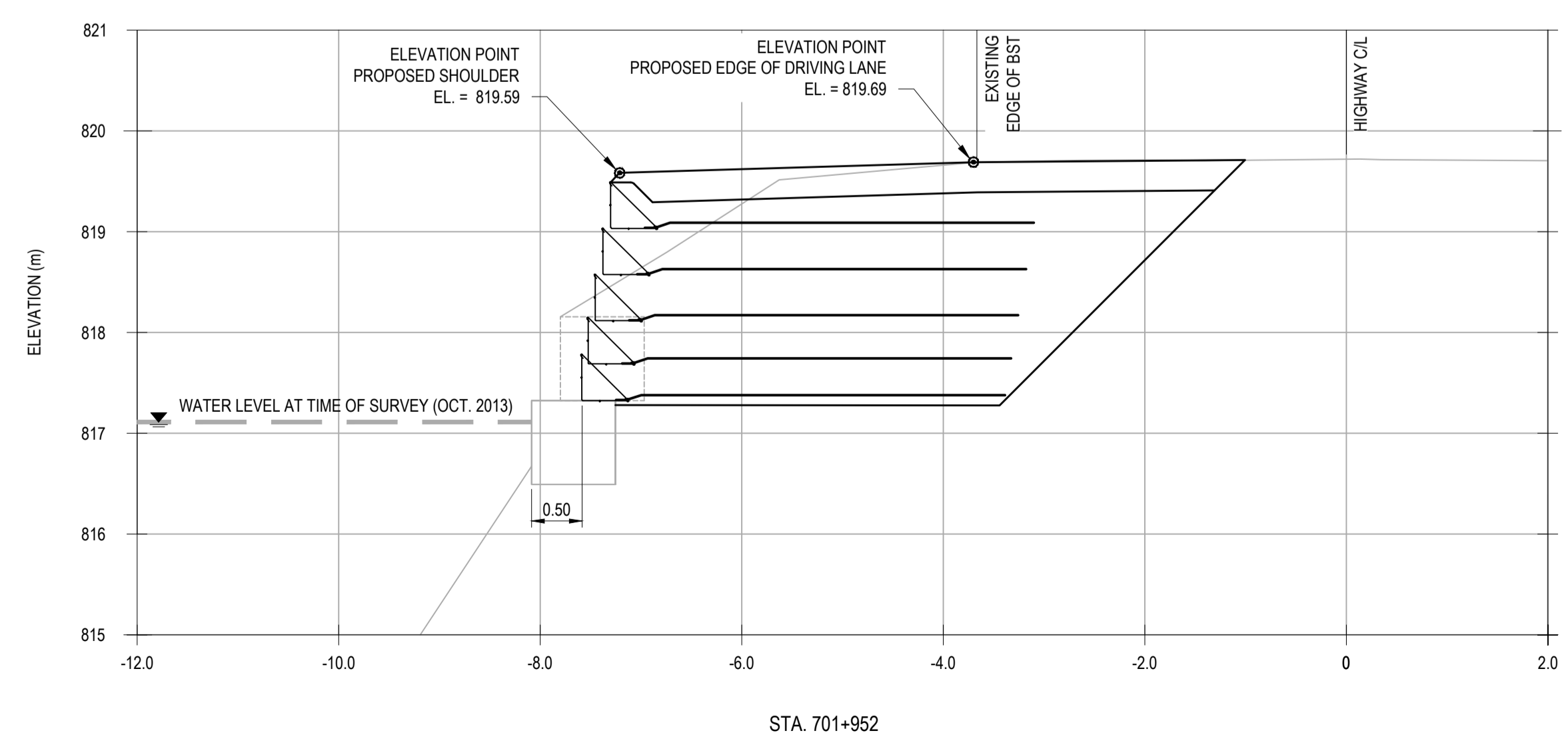
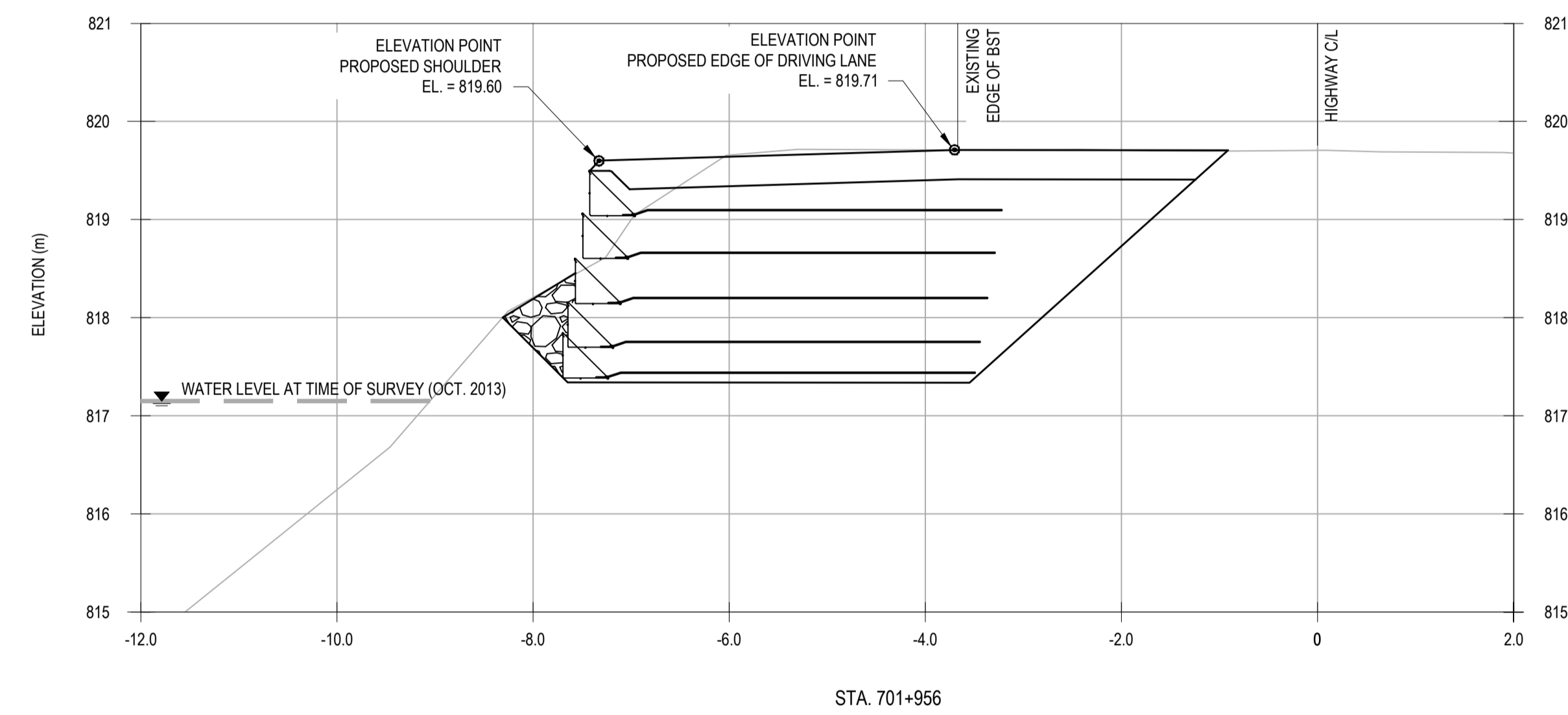
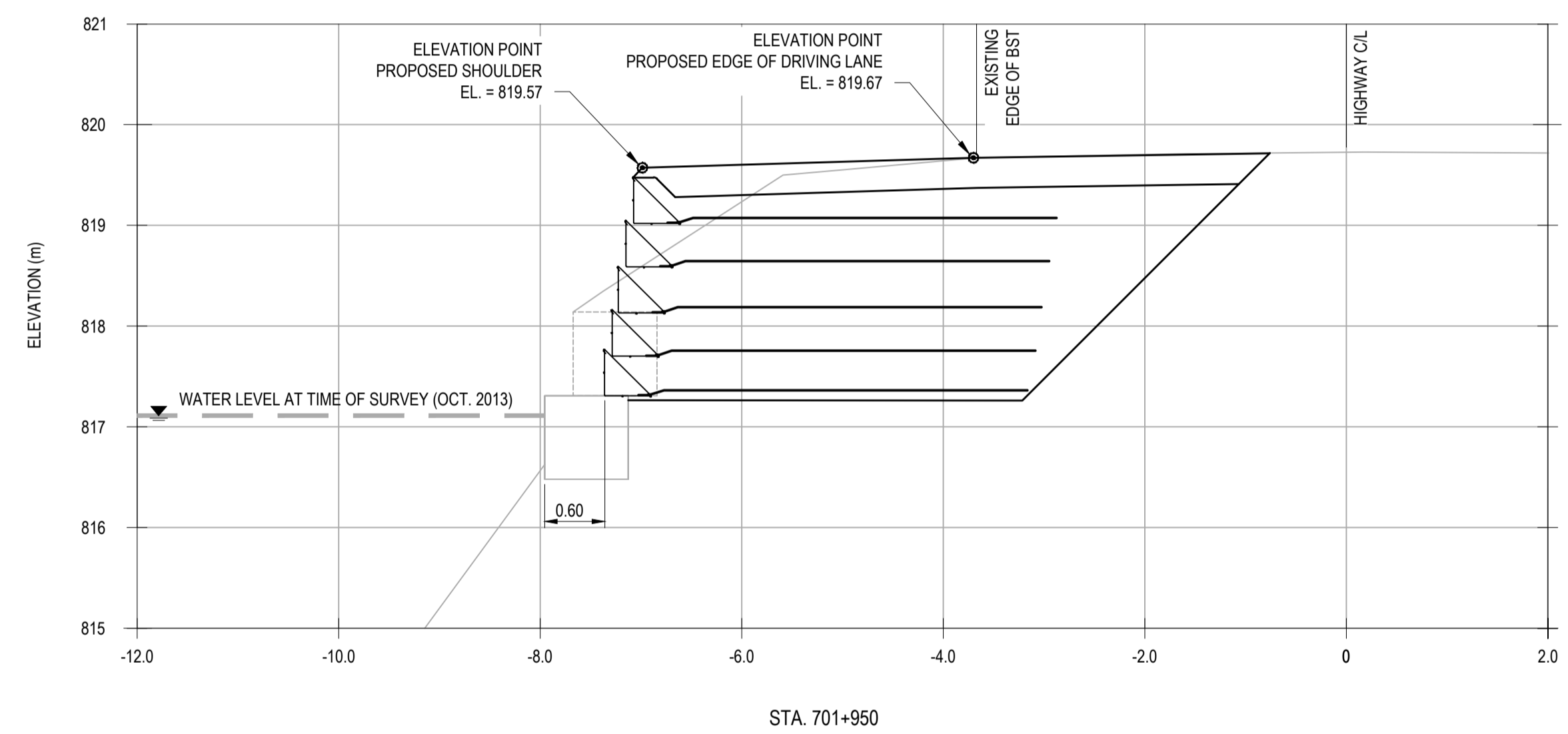
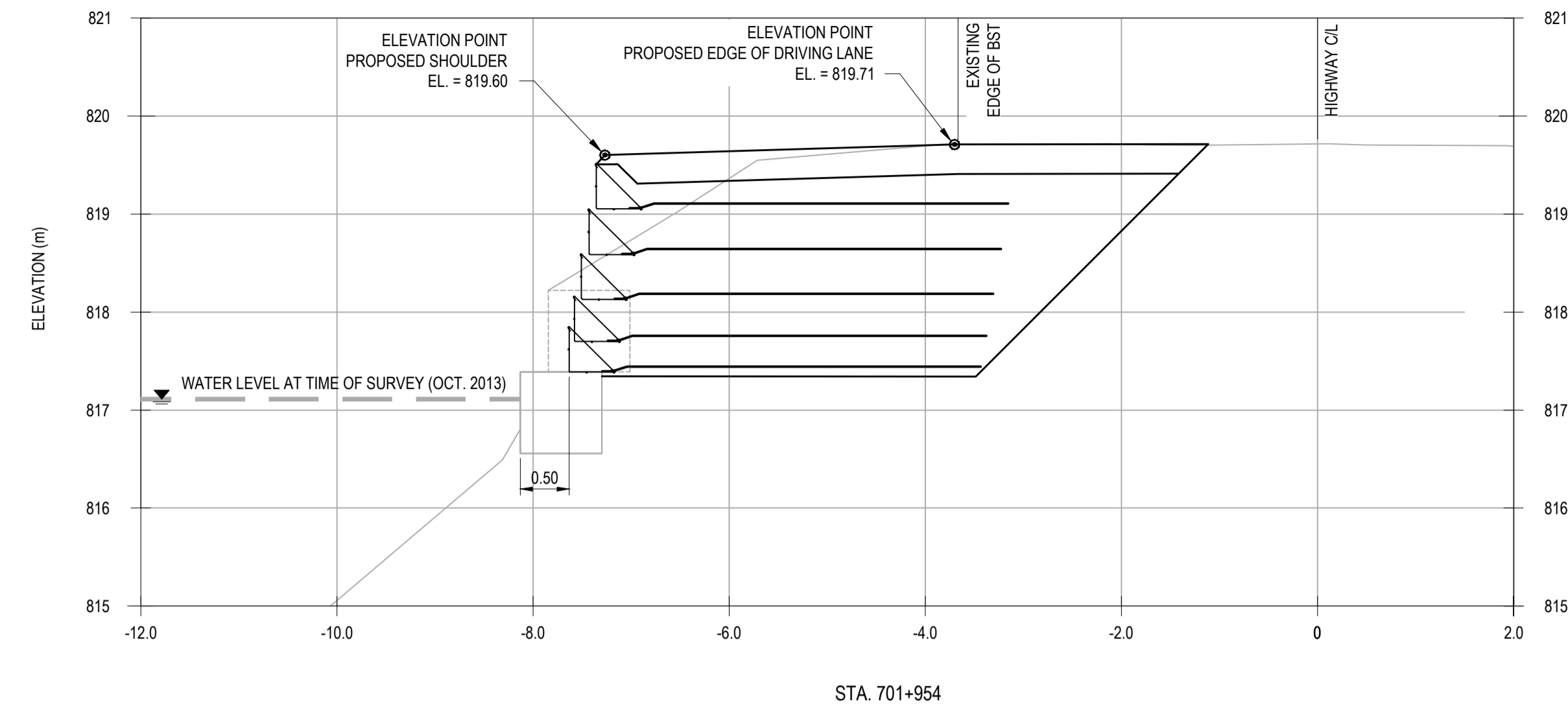
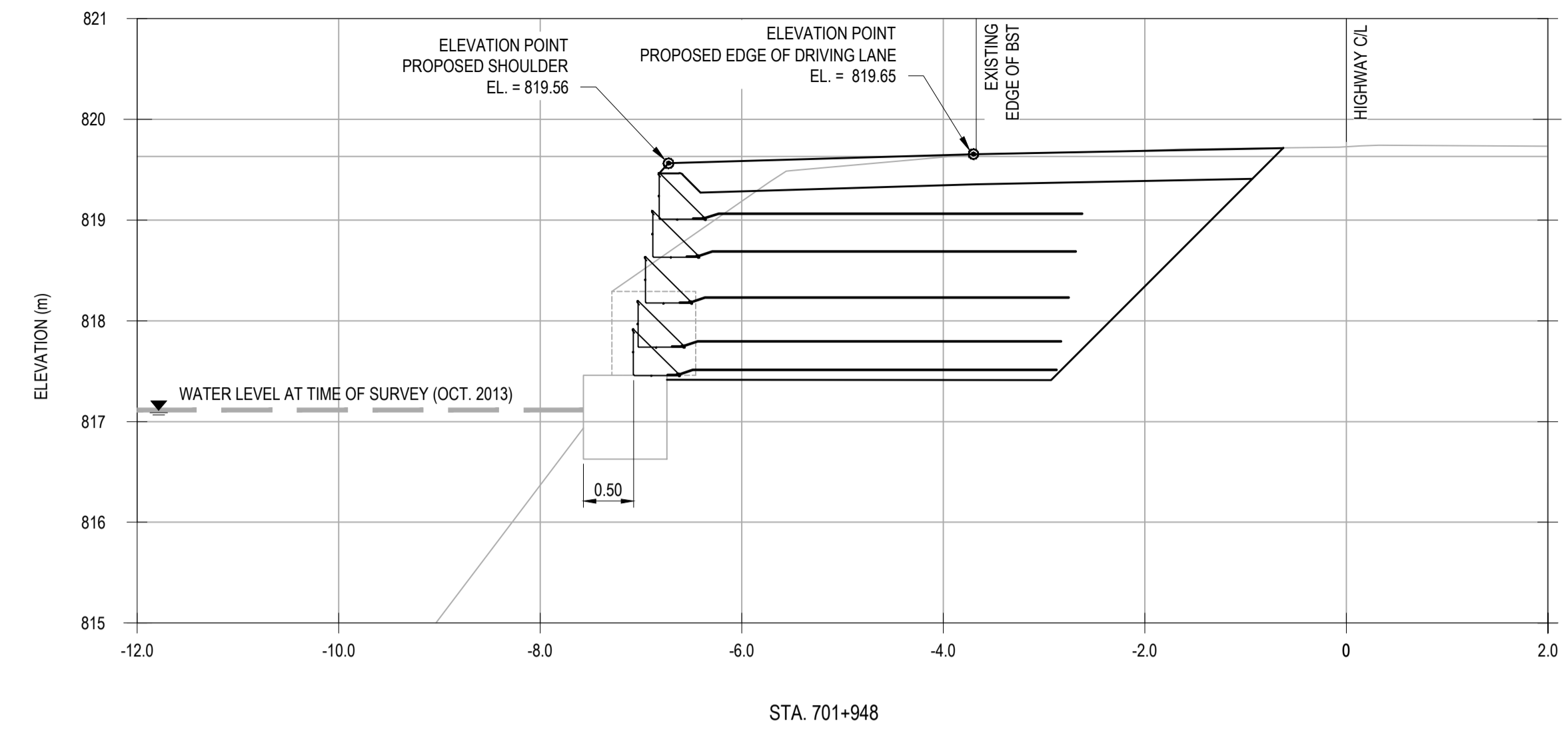
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RETAINING WALL CROSS SECTIONS 4 OF 5 (AREA 2)

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R017173.030	C206 OF C303	1

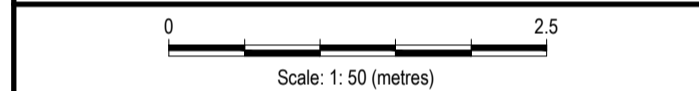


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Professional Engineer
 G. E. WILKINS
 CIVIL
 Professional Engineer
 J. PELLETT
 GEOTECHNICAL



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Client/client
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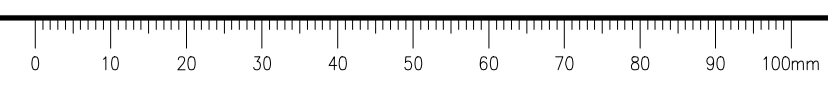
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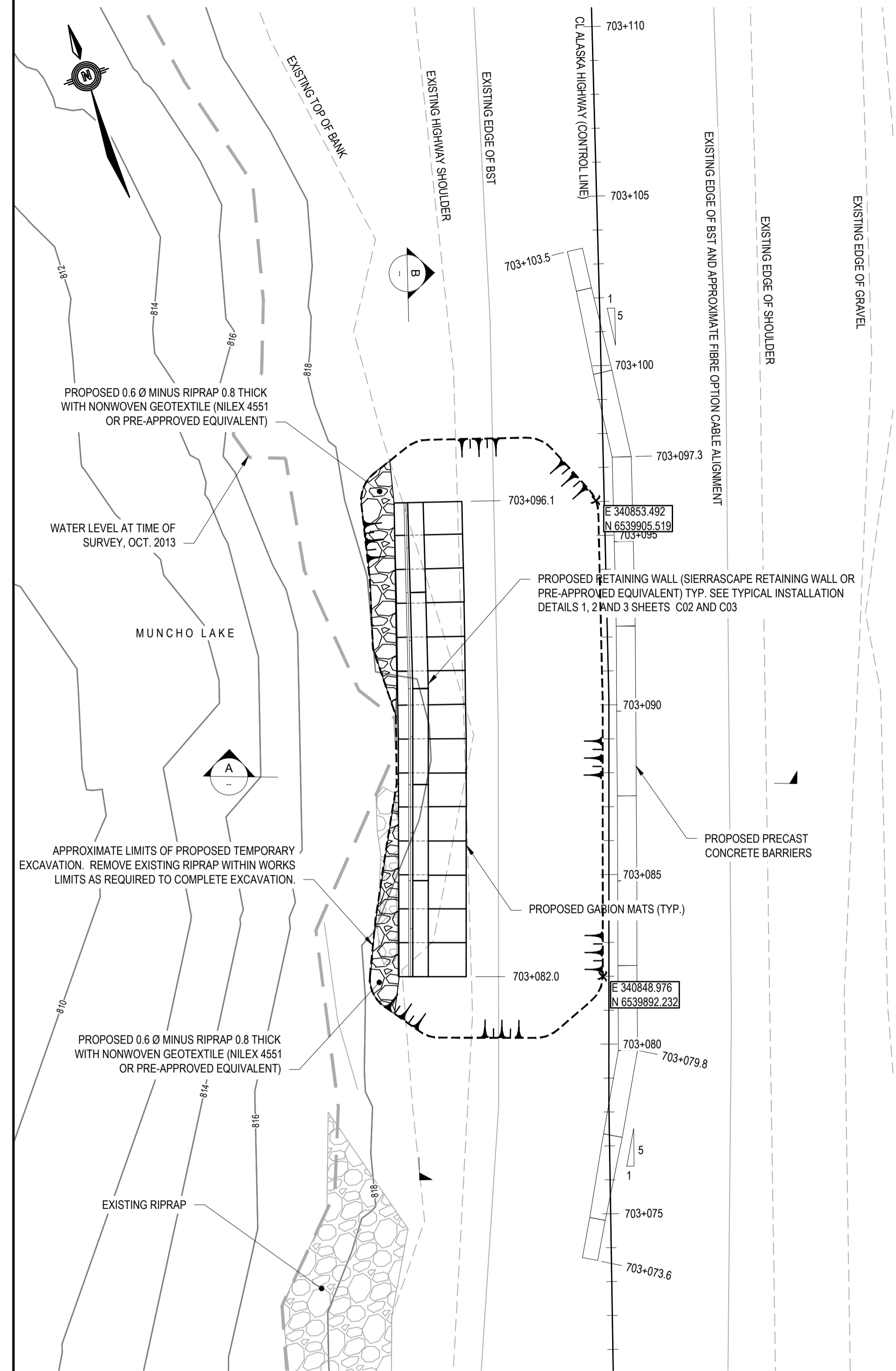
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RETAINING WALL CROSS SECTIONS 5 OF 5 (AREA 2)

Project No./No. du projet R017173.030	Sheet/Fauille C207 OF C303	Revision no./La Révision no. 1
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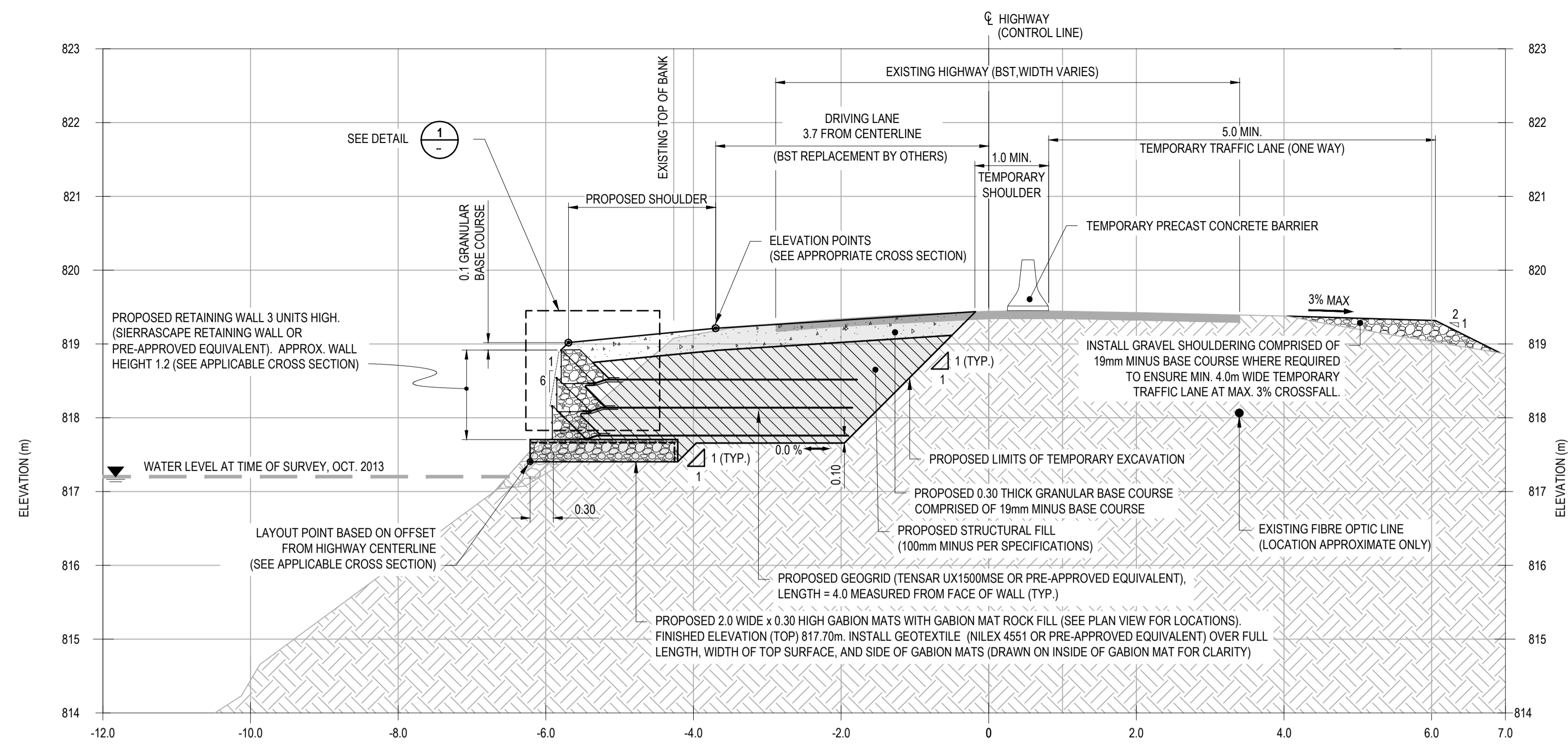


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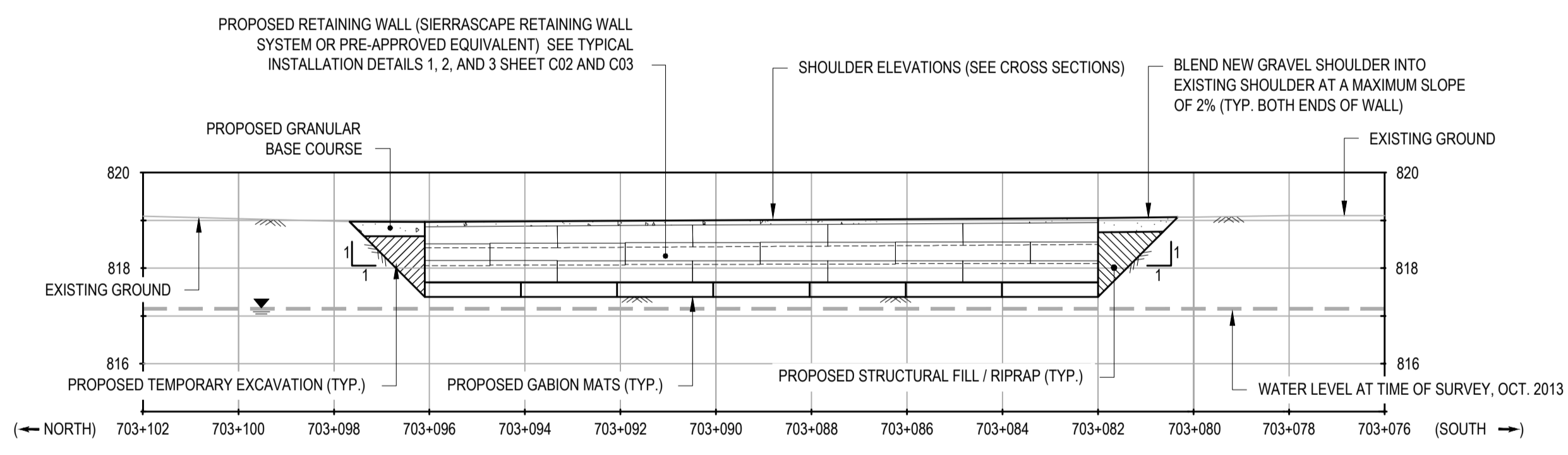
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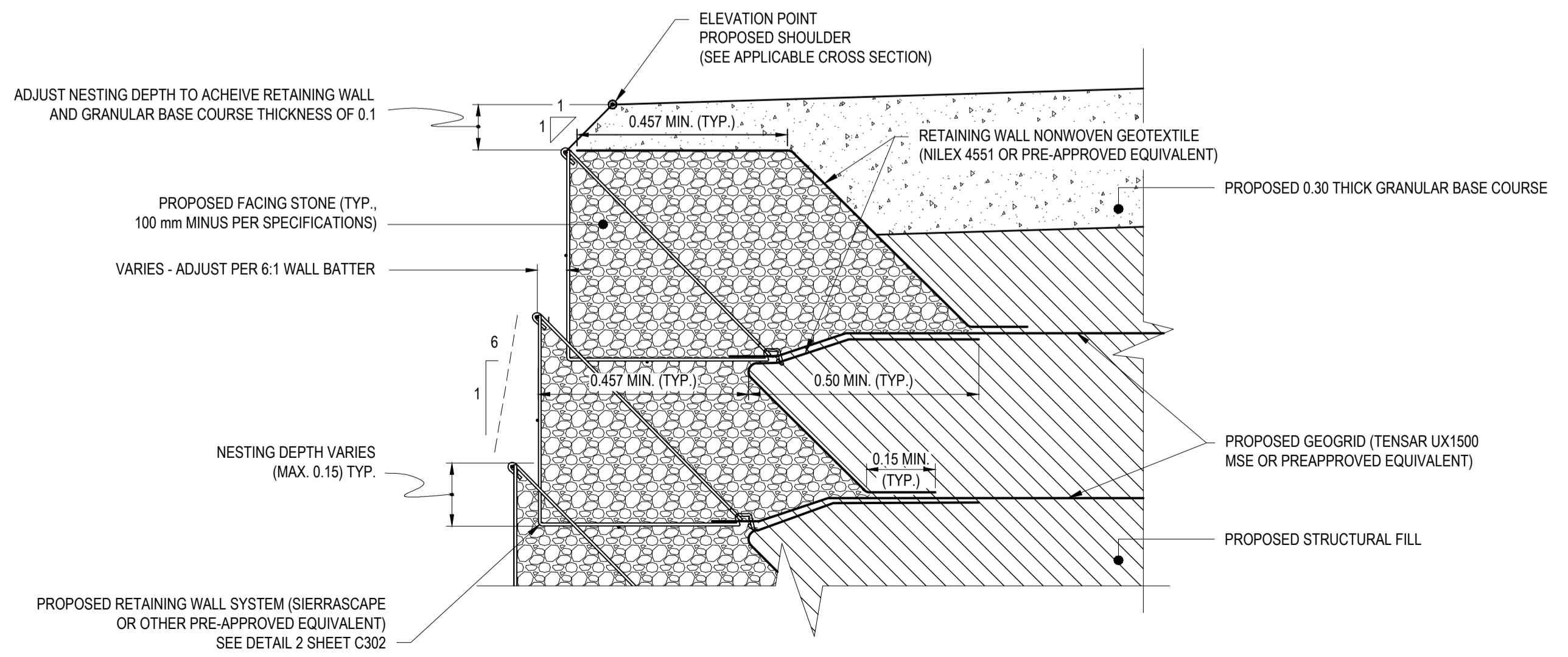
- SUGGESTED CONSTRUCTION SEQUENCING (AREA 3)**
- INSTALL TEMPORARY TRAFFIC CONTROL DEVICES (INCLUDING PRE-CAST CONCRETE BARRIERS, GRAVEL SHOULDERING, AND SIGNAGE) FOR ONE-WAY TRAFFIC.
 - COMPLETE EXCAVATION AND REMOVE EXISTING RIPRAP WITHIN CONSTRUCTION LIMITS.
 - INSTALL GABION MATS AND RETAINING WALL.
 - BACKFILL WITH STRUCTURAL FILL AND GRANULAR BASE COURSE IN PREPARATION OF BST BY OTHERS.
 - REMOVE TEMPORARY TRAFFIC CONTROL DEVICES.



SECTION A STA. 703+088 SHOWN
TYPICAL OF FULL LENGTH OF GEOGRID REINFORCED MSE RETAINING WALL
Scale: 1:50 (metres)



SECTION B GEOGRID REINFORCED MSE RETAINING WALL ELEVATION VIEW
Scale: 1:100



DETAIL 1 PROPOSED RETAINING WALL AND GRANULAR BASE COURSE EDGE TREATMENT AT SHOULDER
Scale: 1:10 (metres)

Professional Engineer
 G. E. WILKINS
 CIVIL
 Professional Engineer
 J. PELLETT
 GEOTECHNICAL

SCALES AS SHOWN

Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2014/07/04

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

TETRA TECH EBA

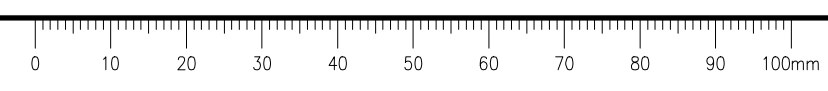
Project Title/Titre du projet
MUNCHO LAKE ROADSIDE STABILIZATION RETAINING WALLS

Approved by/Approve par
J. PELLETT, G. WILKINS
 Designed by/Concept par
A. AFKHAM, A. HORWOOD
 Drawn by/Dessine par
A. HERZOG
 PWGSC Project Manager/Administrateur de Projets TPSCG
A. TAHERI
 PWGSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSCG

Client/client
PWGSC

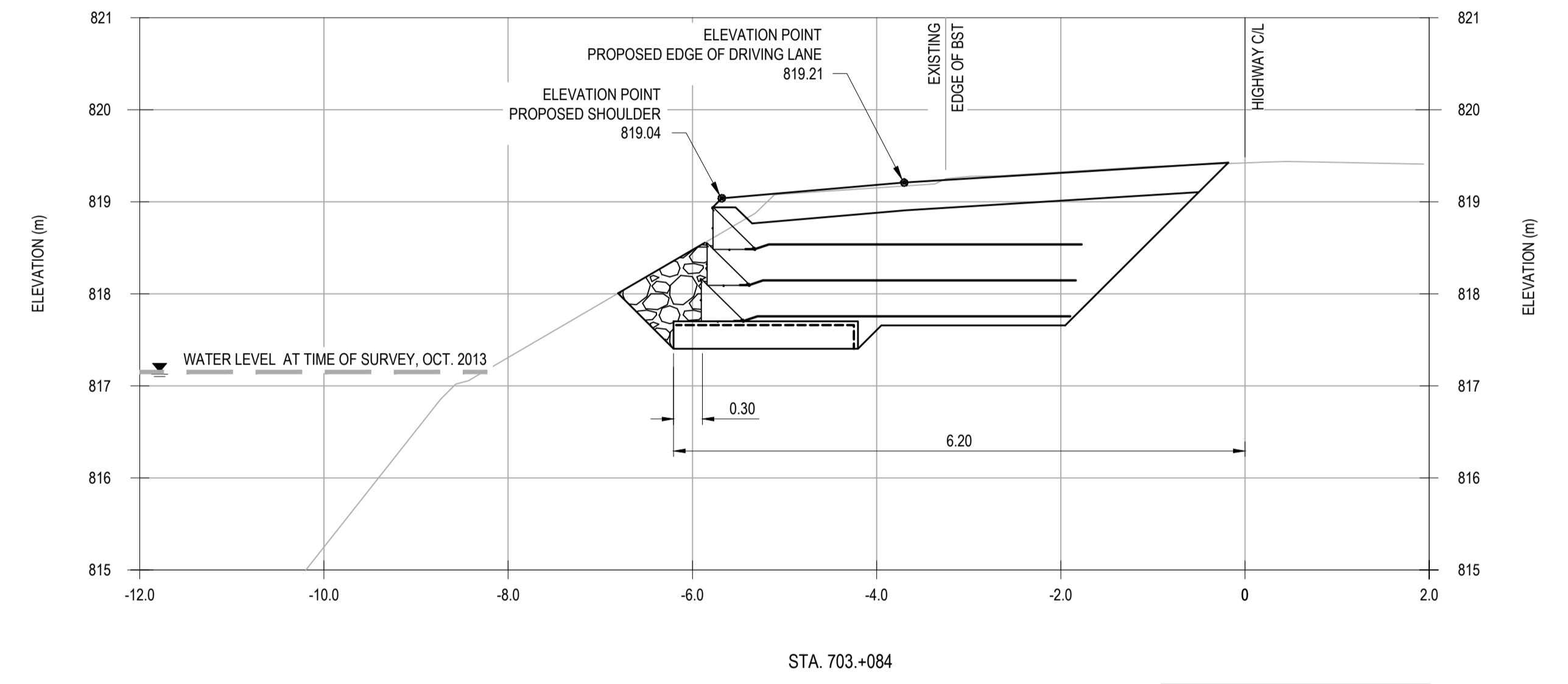
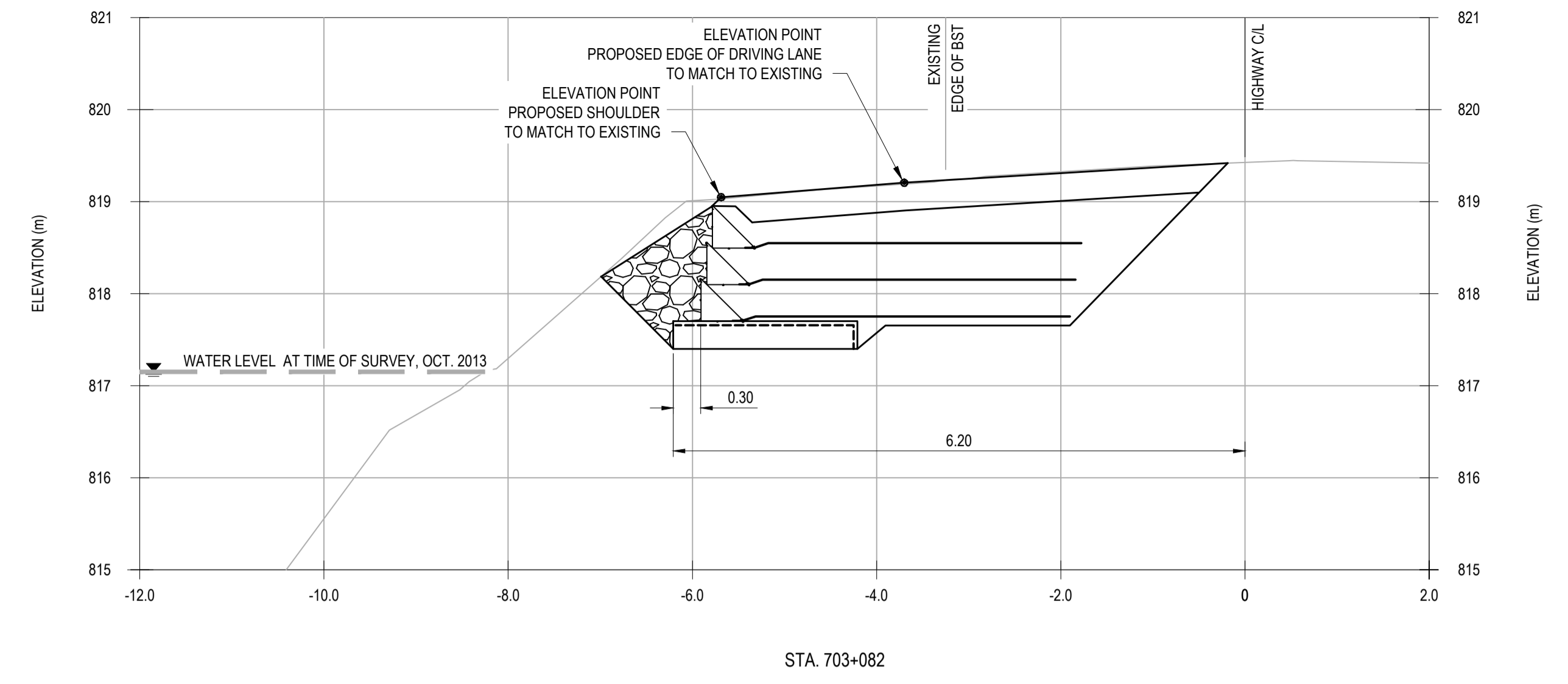
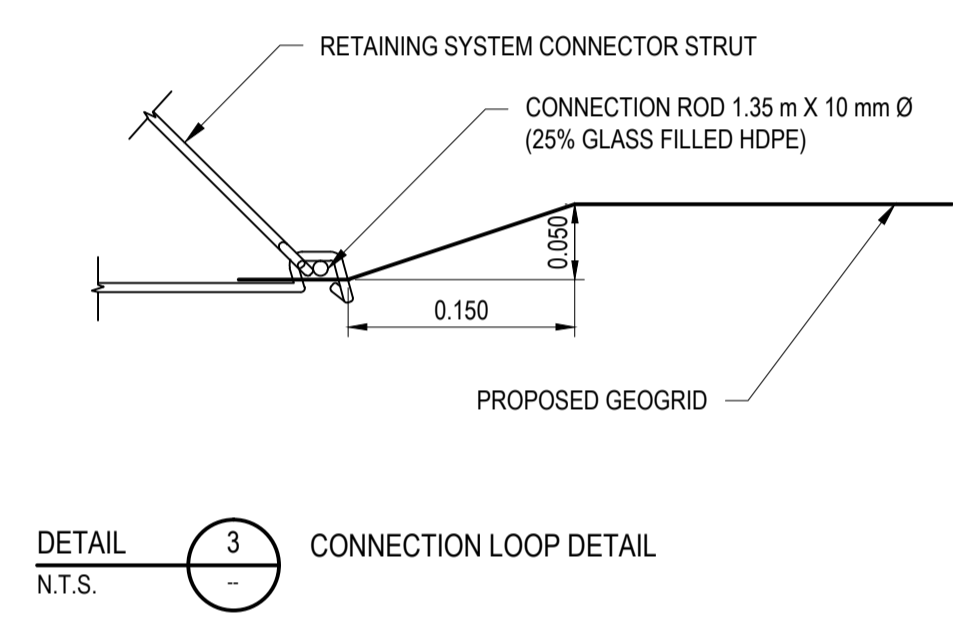
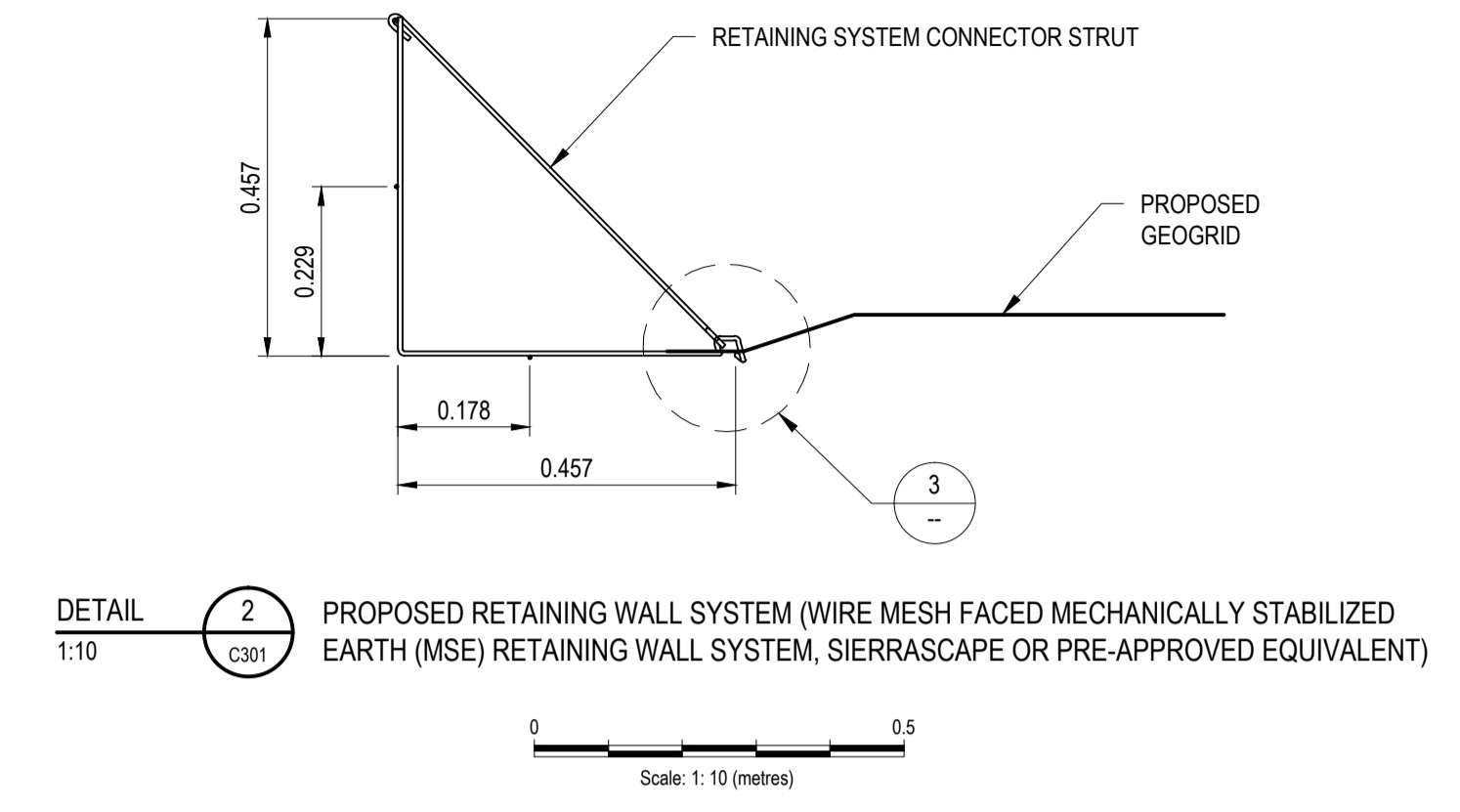
Drawing title/Titre du dessin
RETAINING WALL PLAN, TYPICAL SECTIONS, ELEVATION, AND DETAILS (AREA 3)

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
R017173.030	C301 OF C303	1

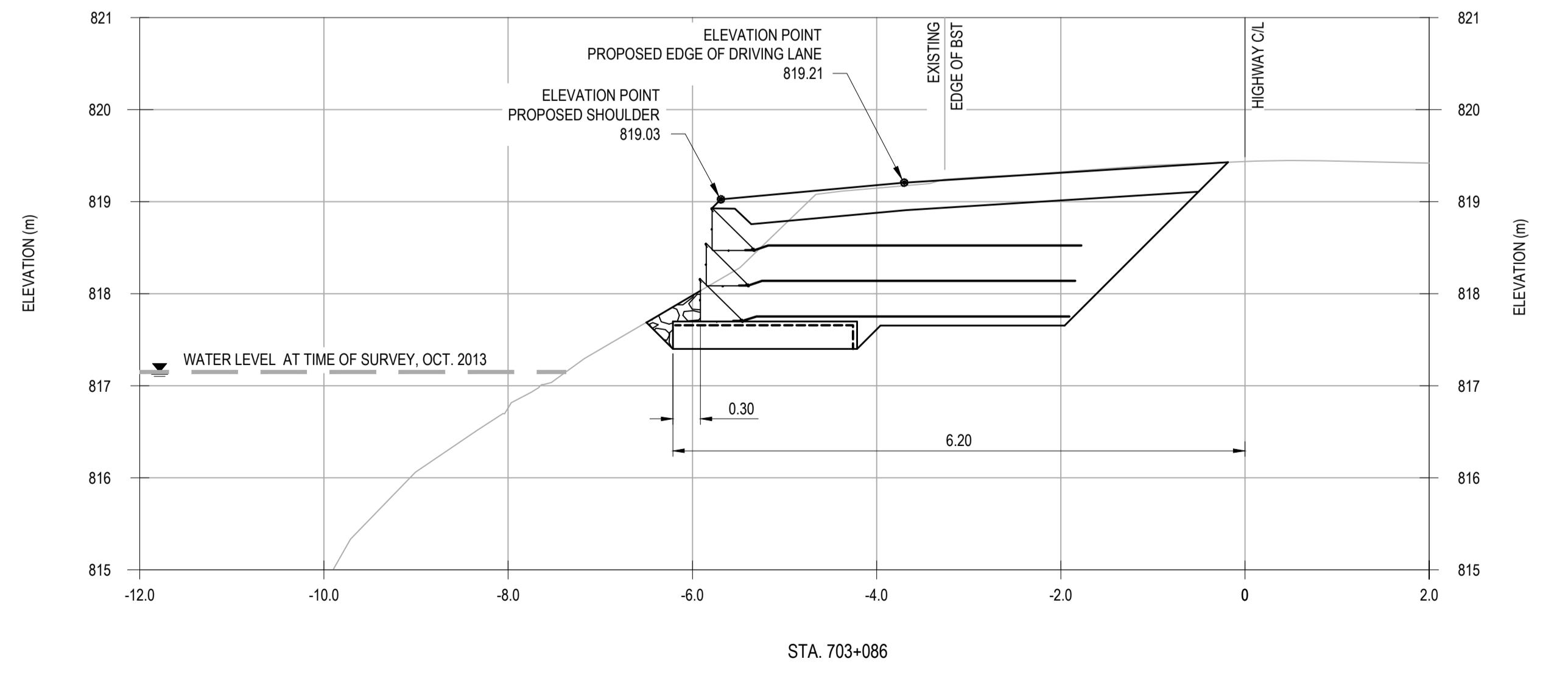
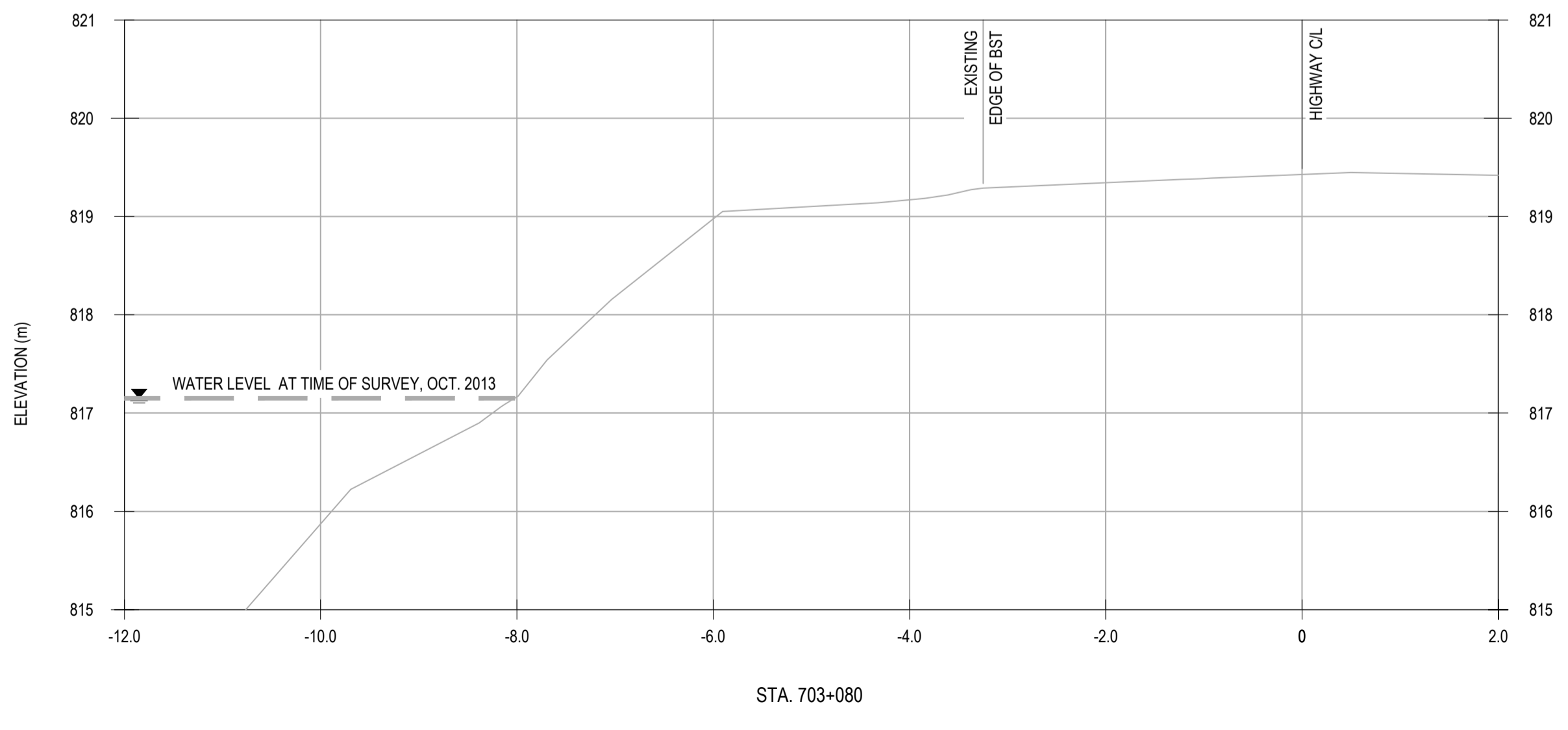


ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, AND ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
 - ELEVATIONS ARE RELATIVE TO GSC DATUM.
 - TOPOGRAPHIC BASE PLAN BASED ON OCTOBER, 2013. SURVEY CONDUCTED BY APEX SURVEYING, AND JUNE, 2010, SURVEY CONDUCTED BY I.R. ROBERTSON AND PROVIDED TO EBA BY PWGSC.
 - INDICATED LOCATION OF FIBRE OPTIC CABLE WAS SUPPLIED BY NORTHWEST TEL AND IS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF THE CABLE AND PROTECTING IT THROUGHOUT THE WORK. DAMAGE TO THE CABLE SUSTAINED DURING CONSTRUCTION TO BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
 - MINOR ADJUSTMENTS (+/- 0.3) TO THE FINAL LOCATION, HEIGHT, AND LAYOUT OF THE PROPOSED RETAINING WALL AND GABION MATS MAY BE MADE DURING CONSTRUCTION BY THE DEPARTMENT REPRESENTATIVE TO ENSURE THE WALL CONFORMS WITH THE EXISTING SITE CONDITIONS / DESIGN CONSTRAINTS.
 - LAYOUT OF WORK BASED ON LAYOUT POINTS PROVIDED.
 - STOP WORK IMMEDIATELY AND NOTIFY THE DEPARTMENTAL REPRESENTATIVE IF MATERIALS SUCH AS TIMBER CRIBBING, WIRE ROPE, CORDUROY / TIMBER LOGS, OR OTHER UNEXPECTED MATERIALS ARE ENCOUNTERED WITHIN THE LIMITS OF EXCAVATION.



NONWOVEN GEOTEXTILE TO BE PLACED ON OUTSIDE OF GABION MATS, DRAWN ON INSIDE FOR CLARITY ONLY



CROSS SECTIONS
Scale: 1:50 (metres)

Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2014/07/04

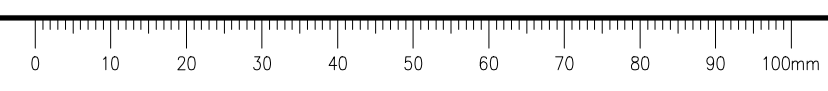
Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

TETRA TECH EBA
 Project title/Titre du projet
MUNCHO LAKE ROADSIDE STABILIZATION RETAINING WALLS

Approved by/Approuvé par
J. PELLETT, G. WILKINS
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 Drawn by/Dessiné par
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A. TAHERI
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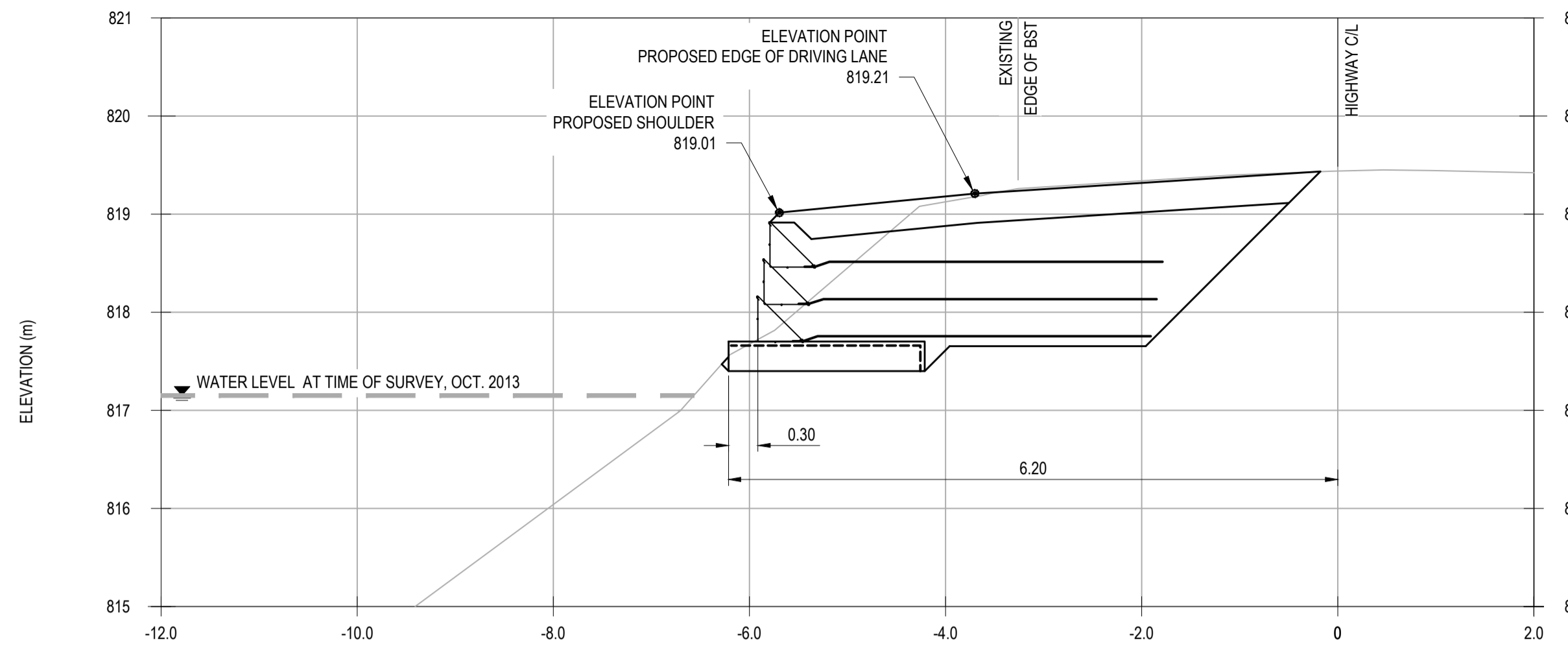
Client/client
PWGSC
 Drawing title/Titre du dessin
RETAINING WALL DETAILS AND CROSS SECTIONS (AREA 3)

Project No./No. du projet R017173.030	Sheet/Fauille C302 OF C303	Revision no./ La Révision no. 1
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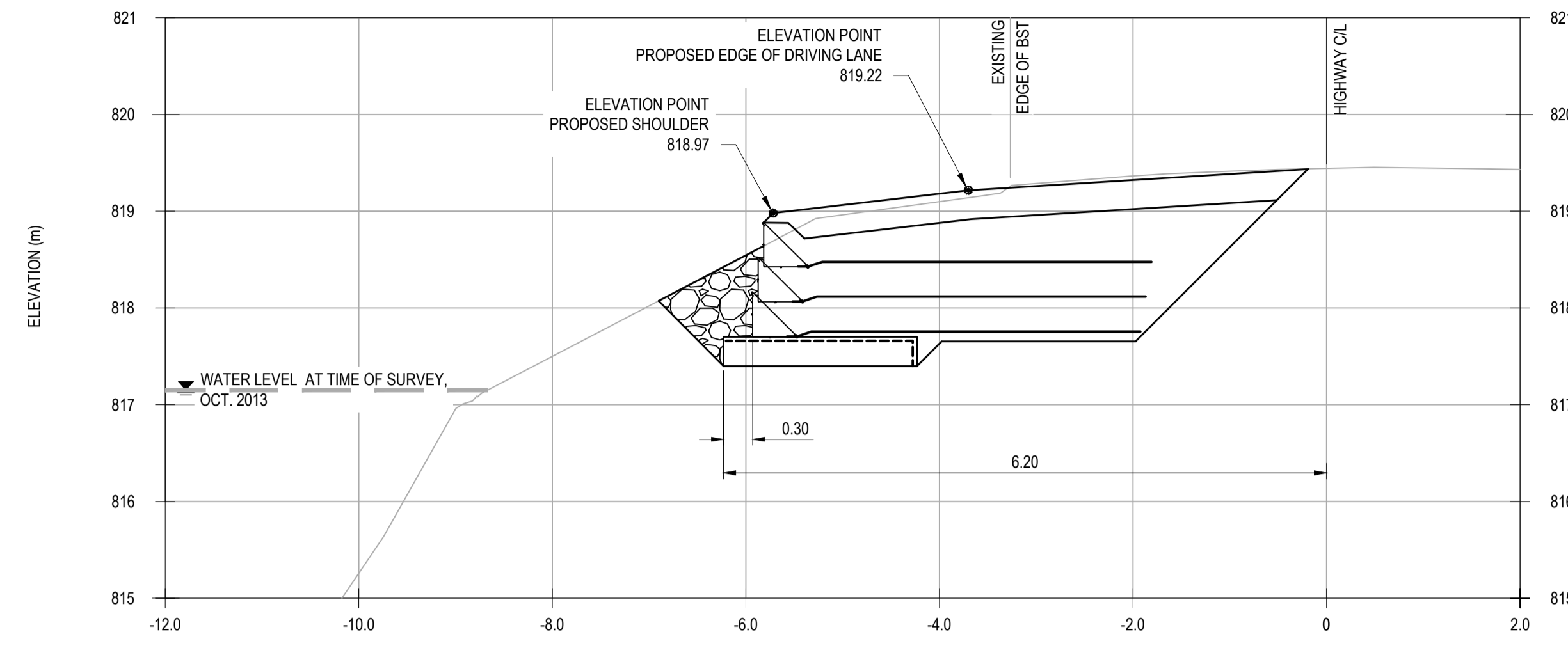


ISSUED FOR TENDER

- GENERAL NOTES:
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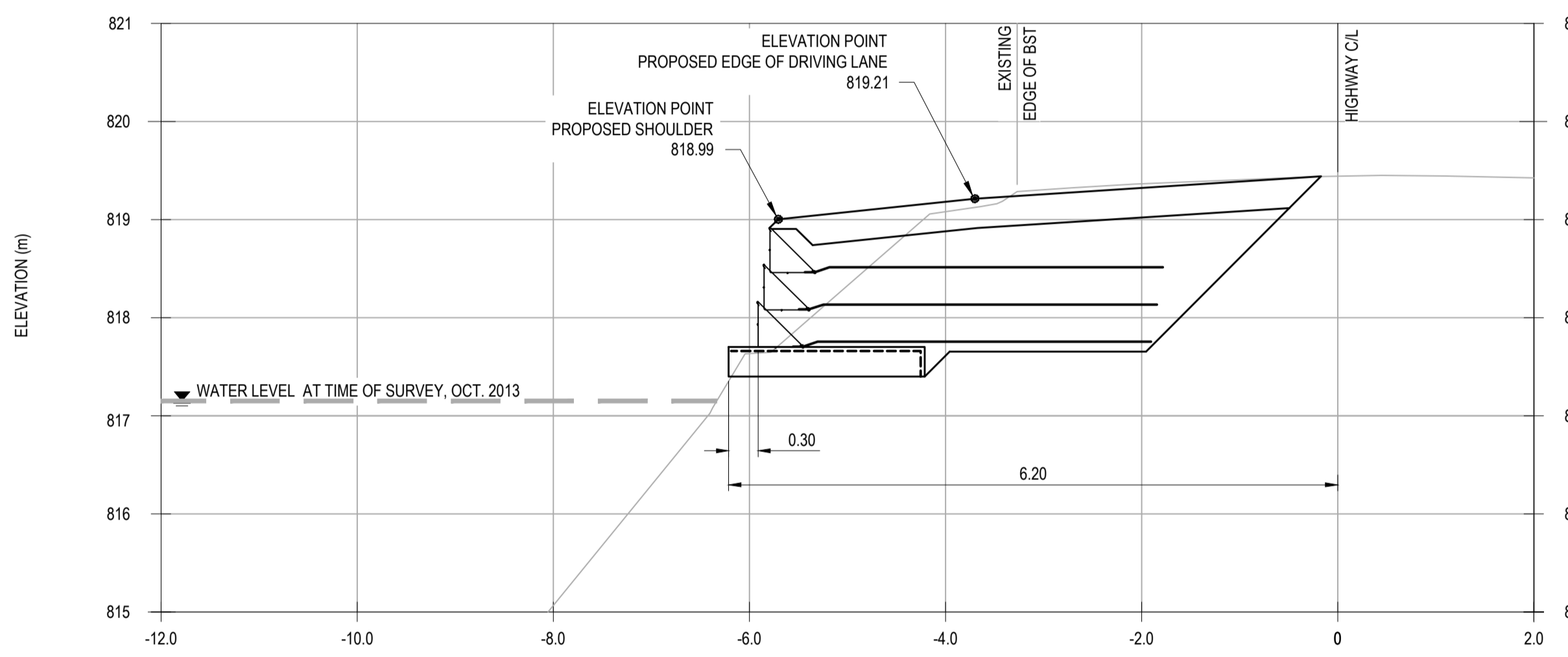


STA. 703+088

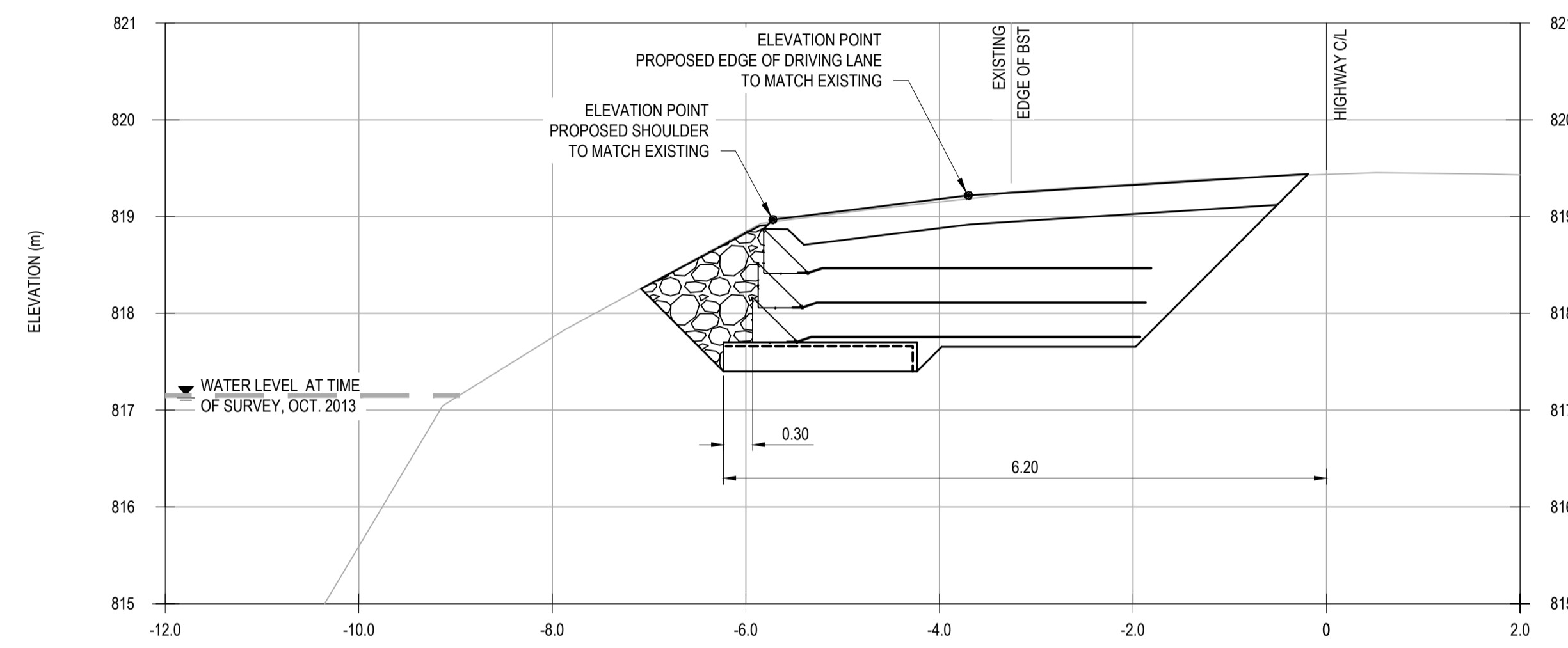


STA. 703+094

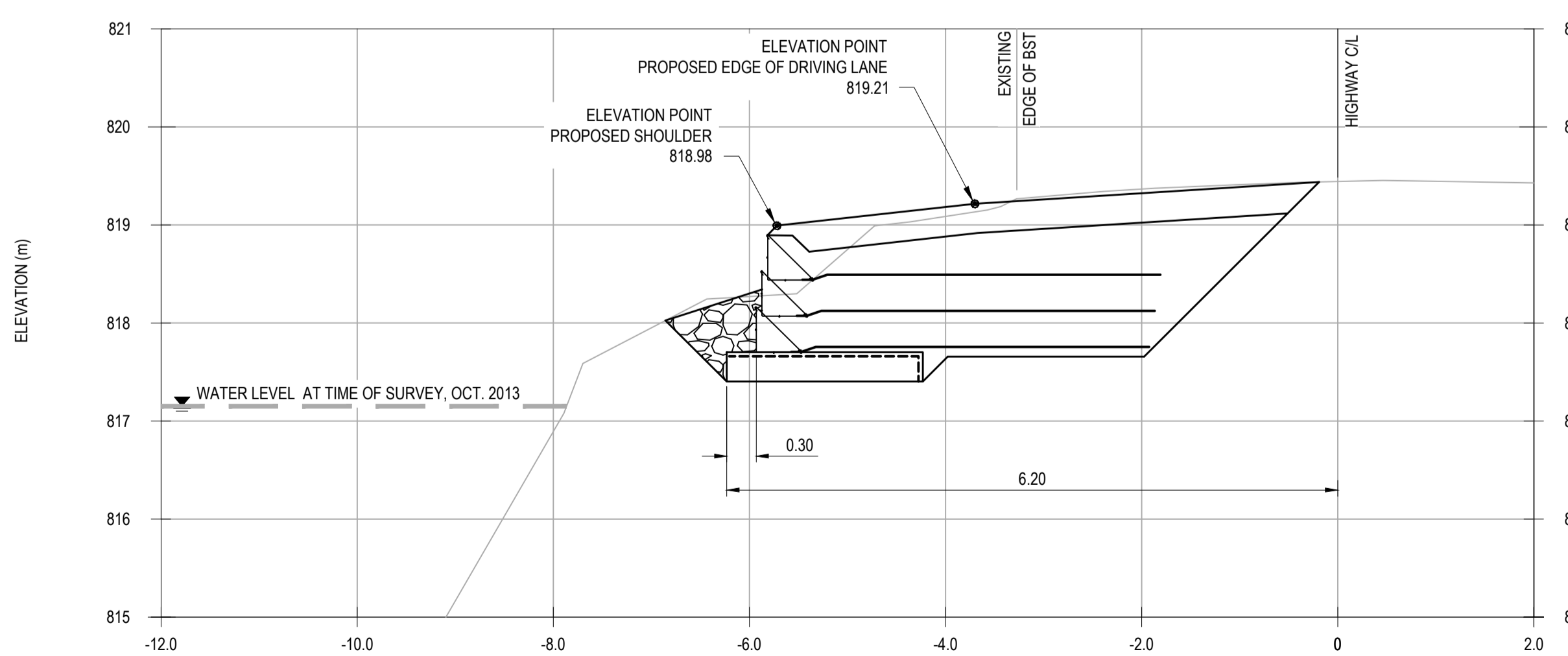
NONWOVEN GEOTEXTILE TO BE PLACED ON OUTSIDE OF GABION MATS, DRAWN ON INSIDE FOR CLARITY ONLY



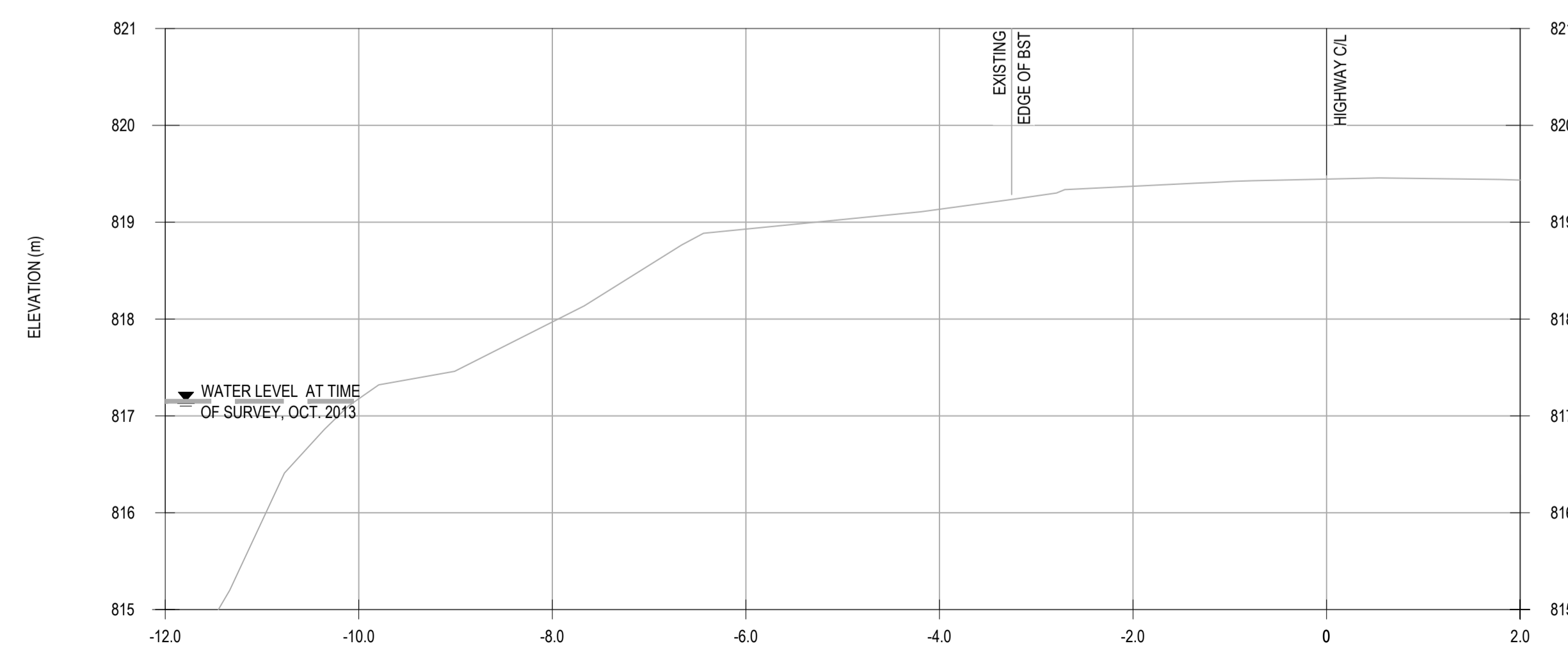
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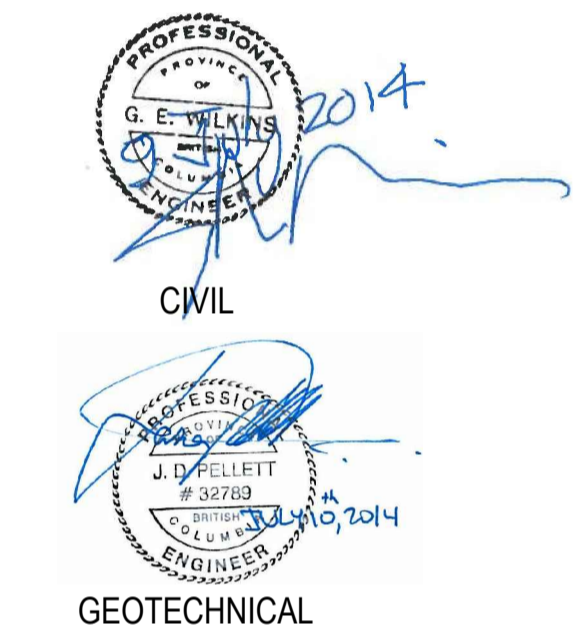
STA. 703+096



STA. 703+092



STA. 703+098



Scale: 1:50 (metres)

Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2014/07/04

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



Project title/Titre du projet
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Client/client
PWGSC

Drawing title/Titre du dessin
RETAINING WALL CROSS SECTIONS (AREA 3)

Project No./No. du projet R017173.030	Sheet/Fauille C303 OF C303	Revision no./ La Révision no. 1
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