



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

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

**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

**ALASKA HIGHWAY
BRITISH COLUMBIA**



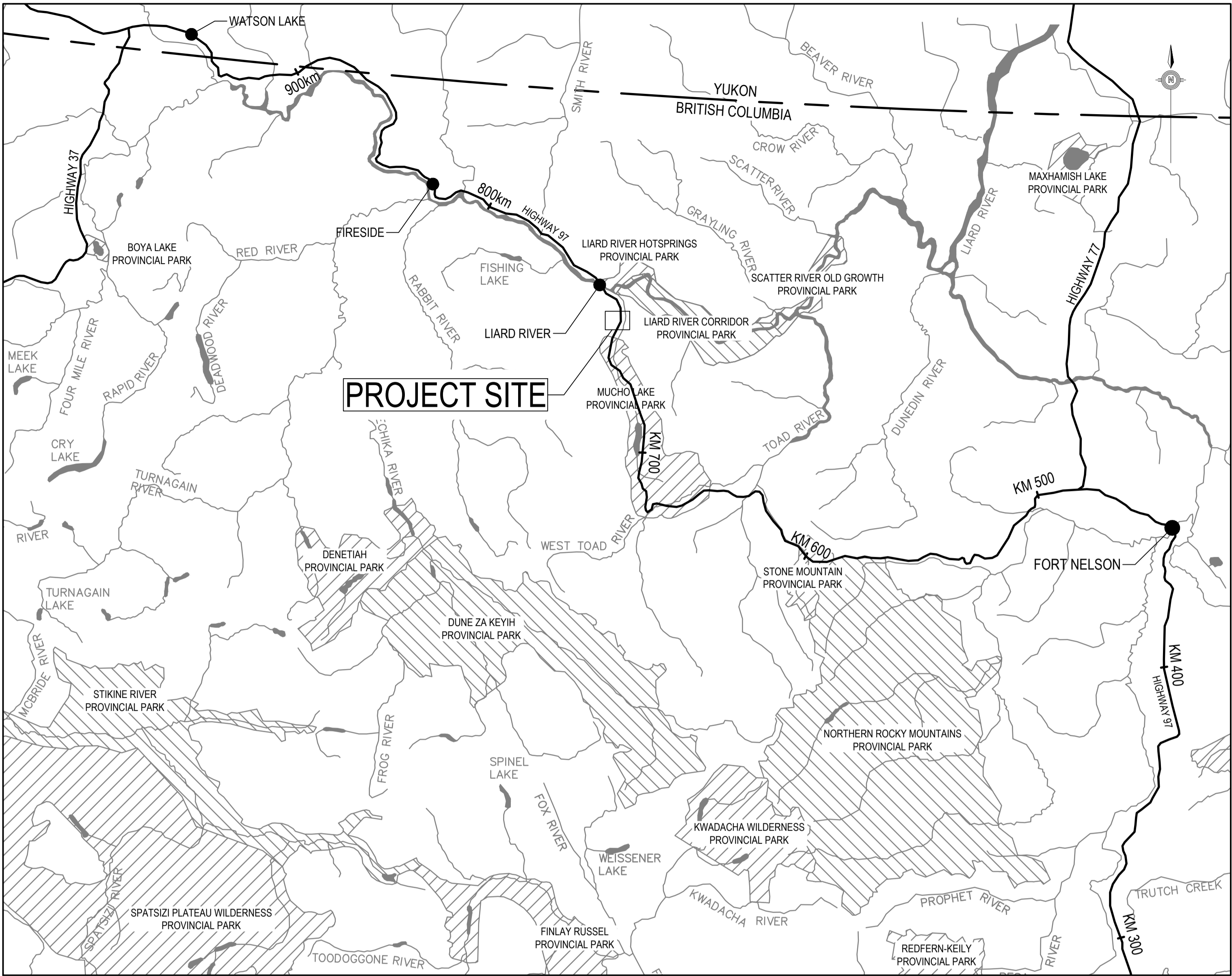
TETRA TECH EBA

PROJECT No. R.017173.701

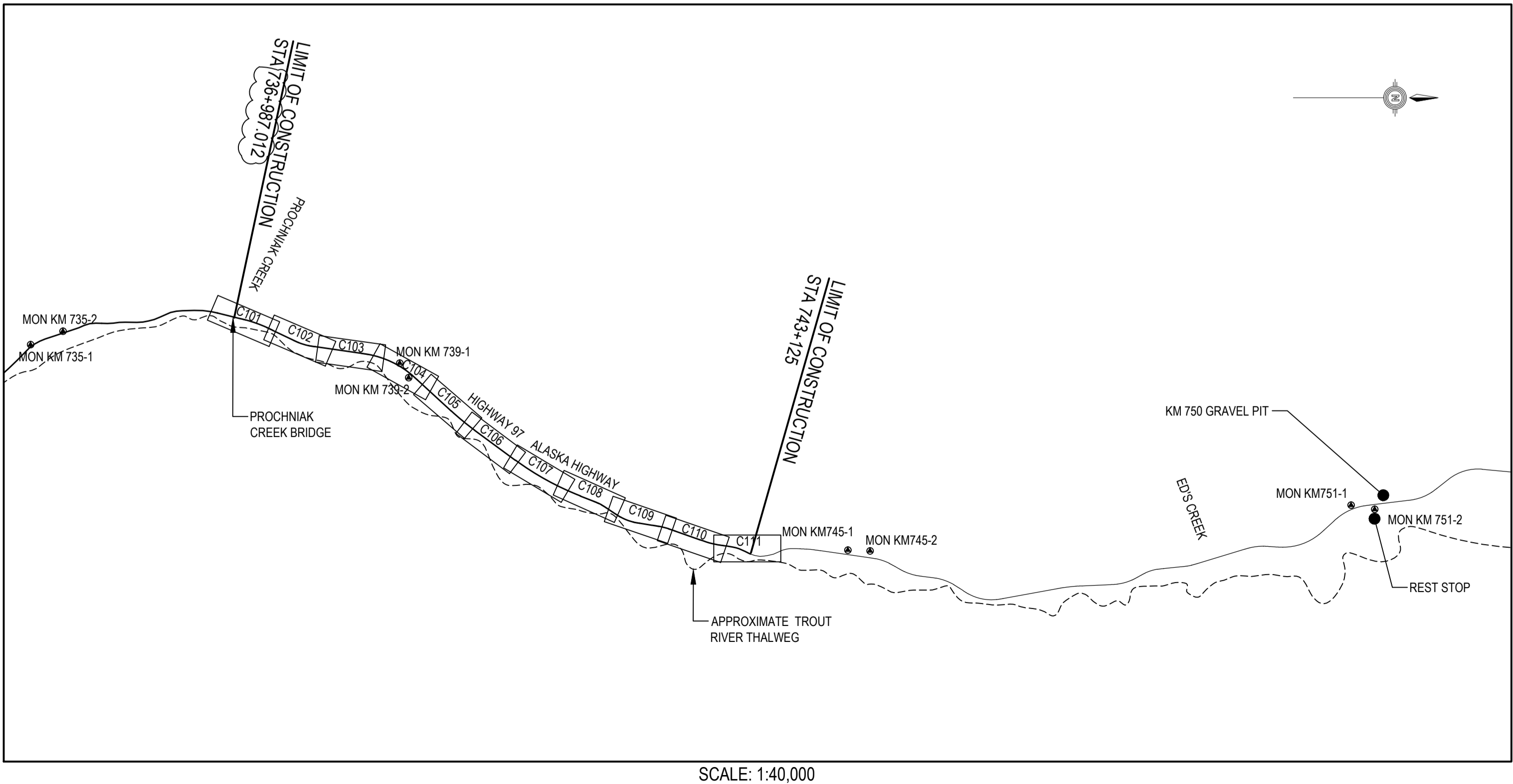
**TENDER SUBMISSION
REV. 0 - MARCH 27, 2015**

\\atl.local\atl\Legacy\Hastings\Transportation\331\Projects\33103085 - Highway Design\km 737-743\CADD\2014 04 25 Detail Design Report\C001 - PROJECT LOCATION PLAN - SOUTH.dwg [C001] April 21, 2015 - 5:35:54 pm (BY: MATSUDA, STAN)

PROJECT LOCATION PLAN



PROJECT KEY PLAN



DRAWING INDEX

DRAWING	DESCRIPTION
C000	COVER PAGE
C001	PROJECT LOCATION PLAN, PROJECT KEY PLAN, DRAWING INDEX, SURVEY CONTROL MONUMENTS, AND LEGEND
C101 TO C111	PLAN / PROFILE
C201 TO C209	DRAINAGE AND ASSOCIATED ROAD DETAILS
C301 TO C305	TYPICAL SECTIONS AND DETAILS
C401	MASS HAUL DIAGRAM (FOR INFORMATION ONLY)
XS01 TO XS24	CROSS SECTIONS

SURVEY CONTROL MONUMENTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
MON KM735-1	6568602.578	330267.344	658.712	CONTROL MONUMENT
MON KM735-2	6568945.927	330124.436	666.882	CONTROL MONUMENT
MON KM739-1	6572518.712	330462.282	611.799	CONTROL MONUMENT
MON KM739-2	6572613.969	330616.531	608.394	CONTROL MONUMENT
MON KM745-1	6577273.411	332446.790	563.582	CONTROL MONUMENT
MON KM745-2	6577508.475	332455.097	563.608	CONTROL MONUMENT
MON KM751-1	6582612.286	331970.540	563.350	CONTROL MONUMENT
MON KM751-2	6582862.531	332014.145	562.051	CONTROL MONUMENT

VERIFY MONUMENT COORDINATES PRIOR TO CONSTRUCTION

NOTES:

- ELEVATIONS ARE GEODETIC AND DERIVED FROM DUAL FREQUENCY CARRIER PHASE GPS OBSERVATIONS PROCESSED USING PWGSC CONTROL MONUMENTS
- COORDINATE SYSTEM: UTM NAD 83 ZONE 10
- SURVEYING PROVIDED BY: APEX SURVEYING, OCTOBER 2013 AND JULY 2014
- ADDITIONAL TOPOGRAPHIC DATA (USED IN LIMITED AREAS BEYOND TREELINE) PREPARED BY NORTHWESTEL / YUKON ENGINEERING SERVICES - APRIL 2008
- ORTHOPHOTOS TAKEN: JUNE 12, 2001

LEGEND

LINETYPE (EXISTING)	LINETYPE (PROPOSED)
CULVERTS	CULVERTS
TOP OF BANK	HIGHWAY CONTROL LINE
HIGHWAY CENTERLINE	CONCRETE BARRIER
CONCRETE BARRIER	LIMIT OF GRADING / LIMIT OF CUT
1.0 m CONTOUR	CLEARING & GRUBBING
5.0 m CONTOUR	EDGE OF BST
EDGE OF WATER	DECOMMISSIONED HIGHWAY (PULVERIZE AND HYDROSEED)
EDGE OF BST	CUT SLOPE STABILIZATION MATERIAL
EDGE OF GRAVEL	SPECIALTY EMBANKMENT MATERIAL
EDGE OF SHOULDER	
FIBER OPTIC	
TREE LINE	
BUSH LINE	
ROAD SIGN	
UTILITY POLE	
GUY WIRE	
BOREHOLE	

ISSUED FOR TENDER

1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision/Revision	Description/Description	Date/Date

Client/client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



Project title/Titre du projet

KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC

Approved by/Approuvé par
G.WILKINS

Designed by/Conçue par
A.HORWOOD / S.MATSUDA

Drawn by/Dessiné par
A.DEEPWELL

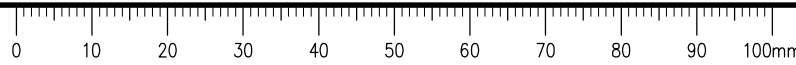
PWGSC Project Manager/Administrateur de Projets TPSGC
A. TAHERI

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

Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

PROJECT LOCATION PLAN,
PROJECT KEY PLAN,
DRAWING INDEX, SURVEY
MONUMENTS AND LEGEND

Project No./No. du projet	Sheet/Feuille	Revision no./ La Revision no.
R.017173.701	C001	1





GENERAL NOTES:

1. DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
2. PROFILE DRAWN AT 10x VERTICAL EXAGGERATION.
3. LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.
4. UNLESS NOTED OTHERWISE, ALL EXISTING TREES AND POSTS WITHIN THE LIMITS OF WORK SHALL BE REMOVED AND STOCKPILED IN A LOCATION DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
5. SEE TABLE DRAWING C208 FOR CULVERT AND SIGN LAYOUT DETAILS.
6. REFER TO GEOTECHNICAL DATA REPORT FOR BORROWPILE DETAILS.
7. EXTENTS OF CUT SLOPE STABILIZATION MATERIAL AND SPECIALTY EMBANKMENT TO BE VERIFIED BY DEPARTMENTAL REPRESENTATIVE DURING CONSTRUCTION.



SUPERELEVATION: _____
RIGHT HAND SIDE _____
LEFT HAND SIDE -----

A scale bar with markings for 0, 10, 1:1000, and 50m.

Client/client

**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**



**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

Designed by/Concept par

Designed by/Concept par

Drawn by/Dessine par
A.DEEPWELL

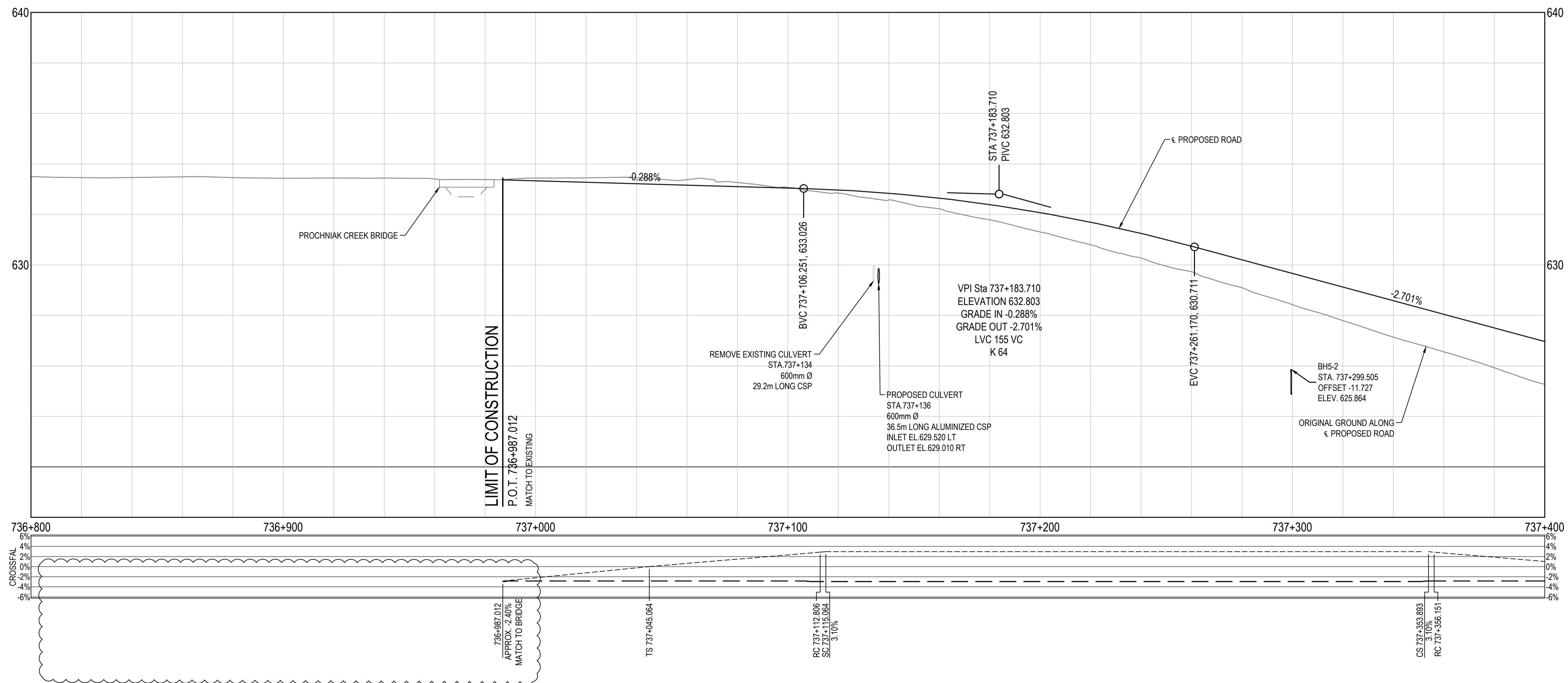
A. TAHERI

PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

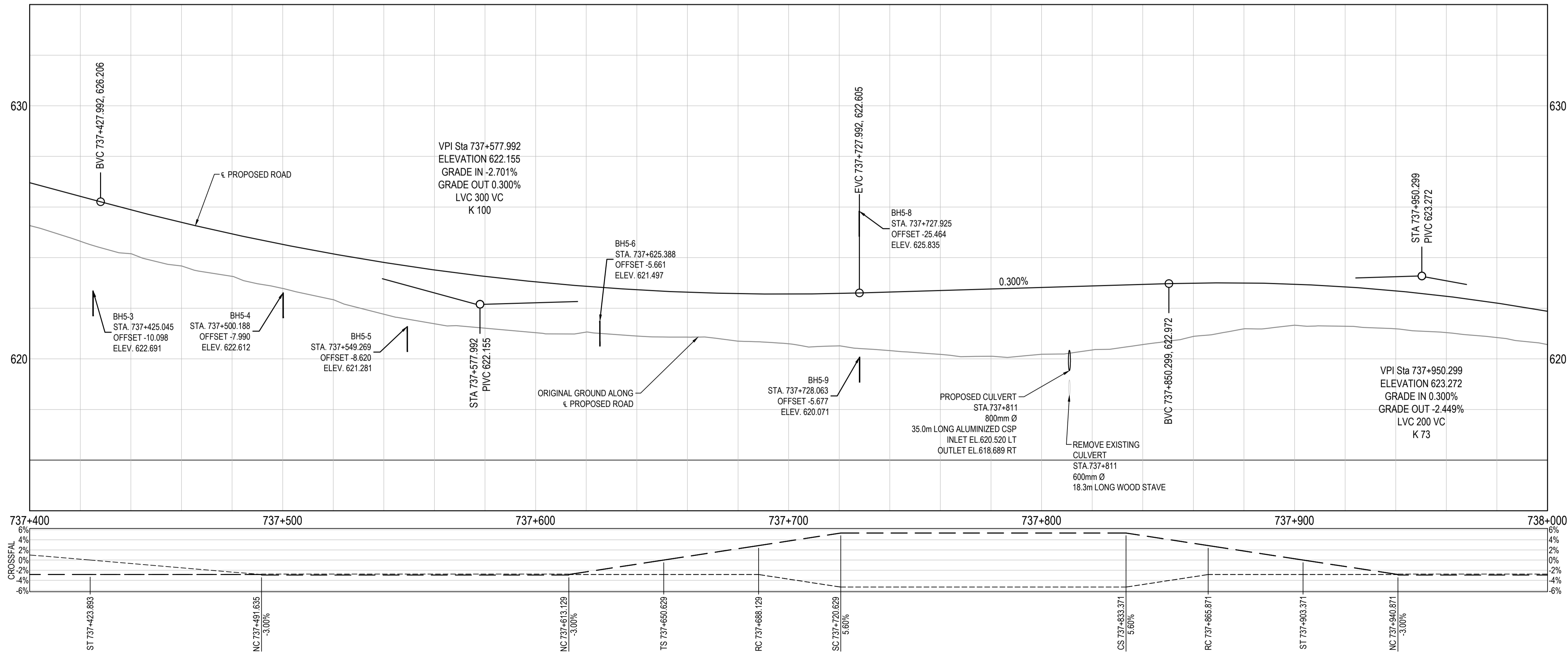
Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

PLAN / PROFILE
STA 737+000 TO 737+400

Project No./No. du projet R.017173.701	Sheet/Feuille C101	Revision no./La Révision no. 1
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C:\temp\338-750\C101 - C111 RUN 11 PLAN PROFILES-SOUTH.dwg [C102] March 26, 2015 - 2:38:52 pm (BY: MATSUDA, STAN)



ISSUED FOR TENDER

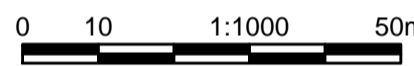
- GENERAL NOTES:
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 - SEE TABLE DRAWING C212 FOR CULVERT LAYOUT DETAILS.
 - REFER TO GEOTECHNICAL DATA REPORT FOR BOREHOLE DETAILS.
 - EXTENTS OF CUT SLOPE STABILIZATION MATERIAL AND SPECIALTY EMBANKMENT TO BE VERIFIED BY DEPARTMENTAL REPRESENTATIVE DURING CONSTRUCTION.



PROFILE:
TOP OF EX. BST
TOP OF PROP. BST

SUPERELEVATION:
RIGHT HAND SIDE
LEFT HAND SIDE

DESIGN SPEED 100 km/h



Revision	Description/Description	Date/Date
0	ORIGINAL TENDER SUBMISSION	15/03/27

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



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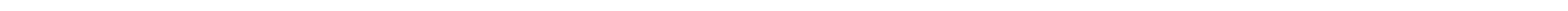
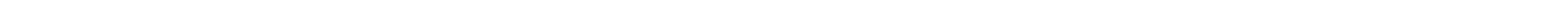
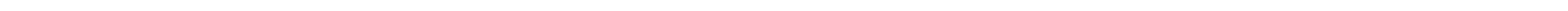
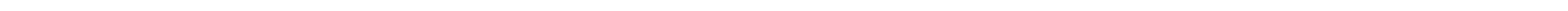
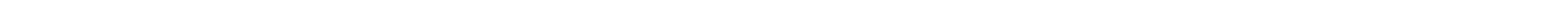
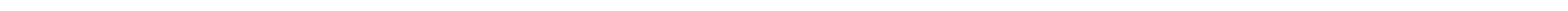
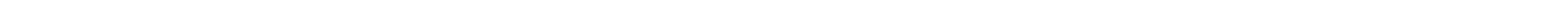
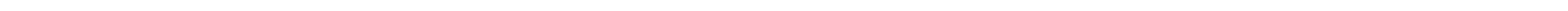
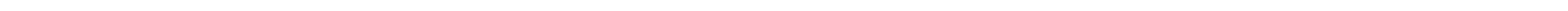
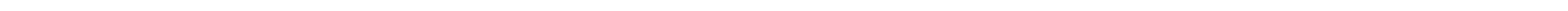
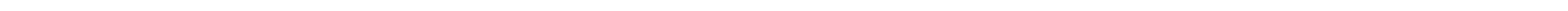
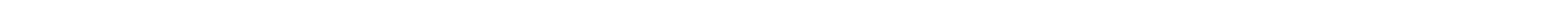
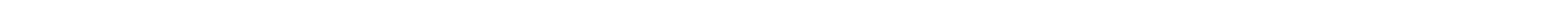
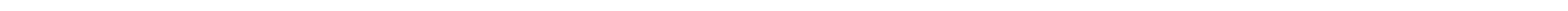
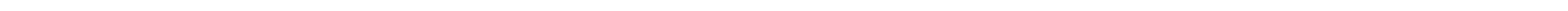
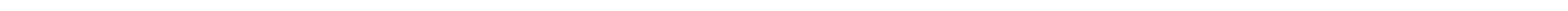
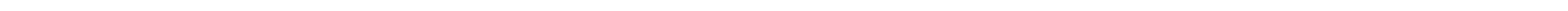
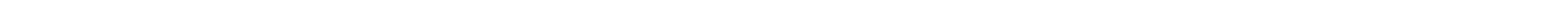
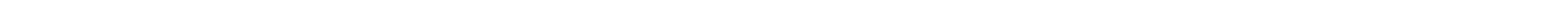
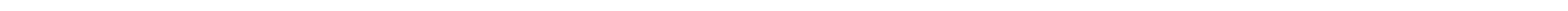
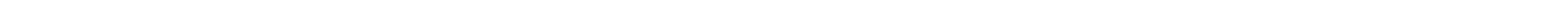
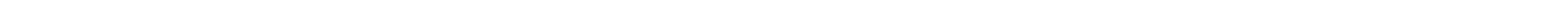
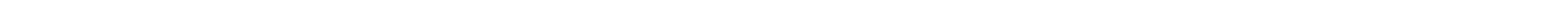
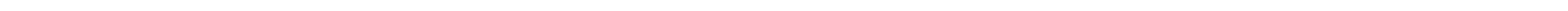
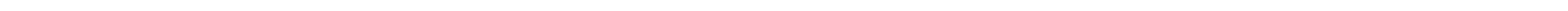
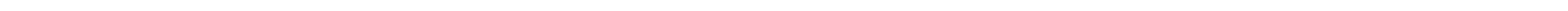
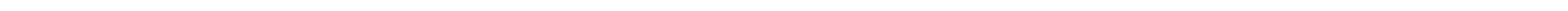
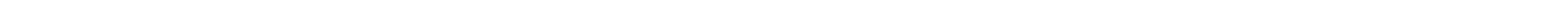
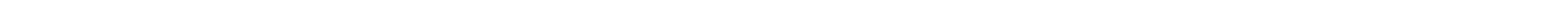
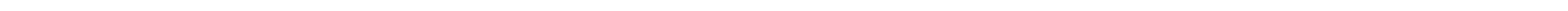
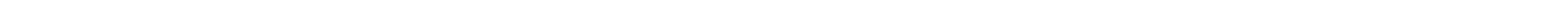
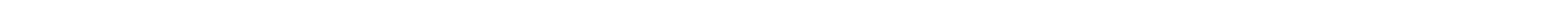
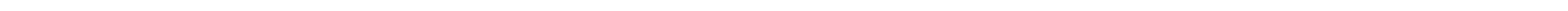
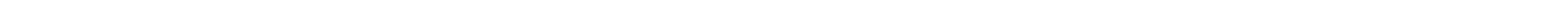
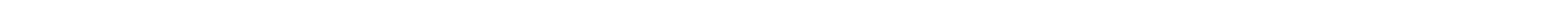
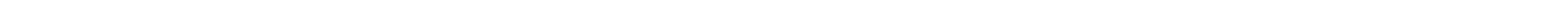
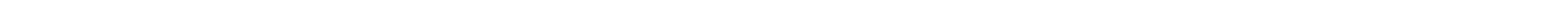
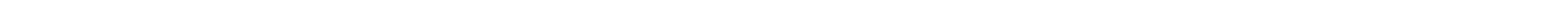
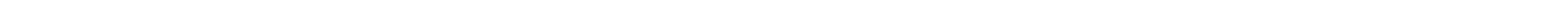
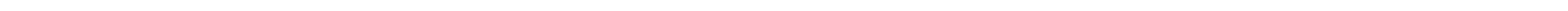
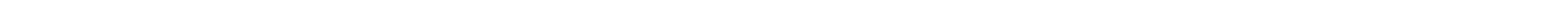
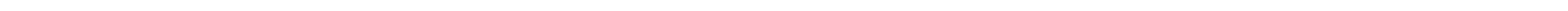
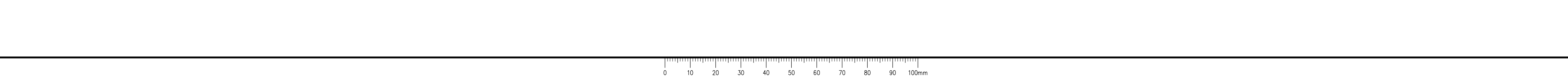
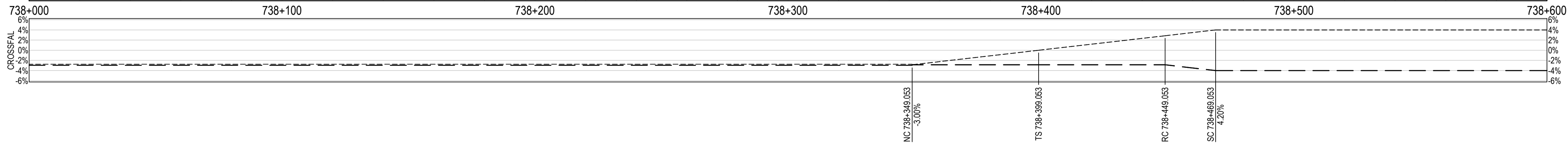
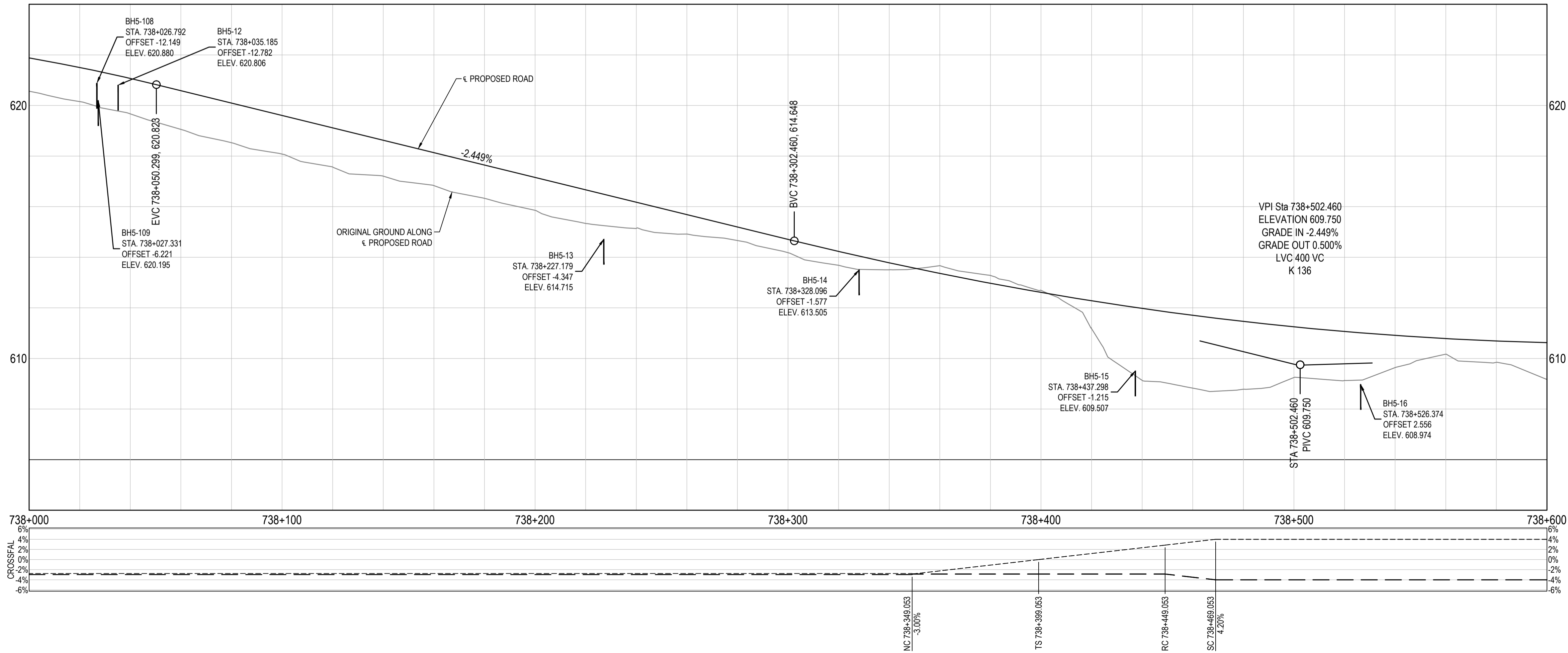
Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin
**PLAN / PROFILE
STA 737+400 TO 738+000**

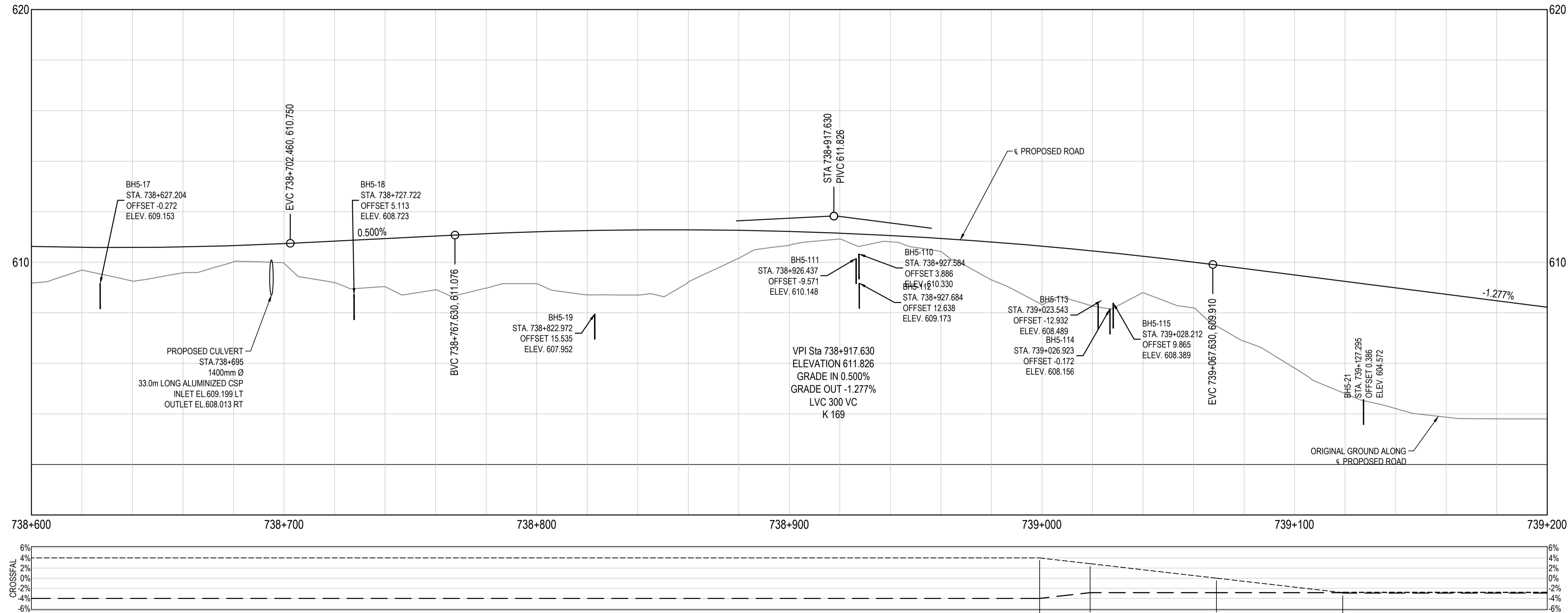
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.017173.701	C102	0



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C:\temp\338-750\C101 - C111 RUN 11 PLAN PROFILES SOUTH.dwg [C104] March 26, 2015 - 8:24:39 am (BY: MATSUDA, STAN)



ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
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 - LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.
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 - SEE TABLE DRAWING C212 FOR CULVERT LAYOUT DETAILS.
 - REFER TO GEOTECHNICAL DATA REPORT FOR BOREHOLE DETAILS.
 - EXTENTS OF CUT SLOPE STABILIZATION MATERIAL AND SPECIALTY EMBANKMENT TO BE VERIFIED BY DEPARTMENTAL REPRESENTATIVE DURING CONSTRUCTION.



PROFILE:
TOP OF EX. BST
TOP OF PROP. BST

SUPERELEVATION:
RIGHT HAND SIDE
LEFT HAND SIDE

DESIGN SPEED 100 km/h

0 10 1:1000 50m

0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client

**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**



Project title/Titre du projet

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ALASKA HIGHWAY, BC**

Approved by/Approuvé par

G.WILKINS

Designed by/Concept par

A.HORWOOD / S. MATSUDA

Drawn by/Dessiné par

A.DEEPWELL

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

PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

**PLAN / PROFILE
STA 738+600 TO 739+200**

Project No./No. du
projet

R.017173.701

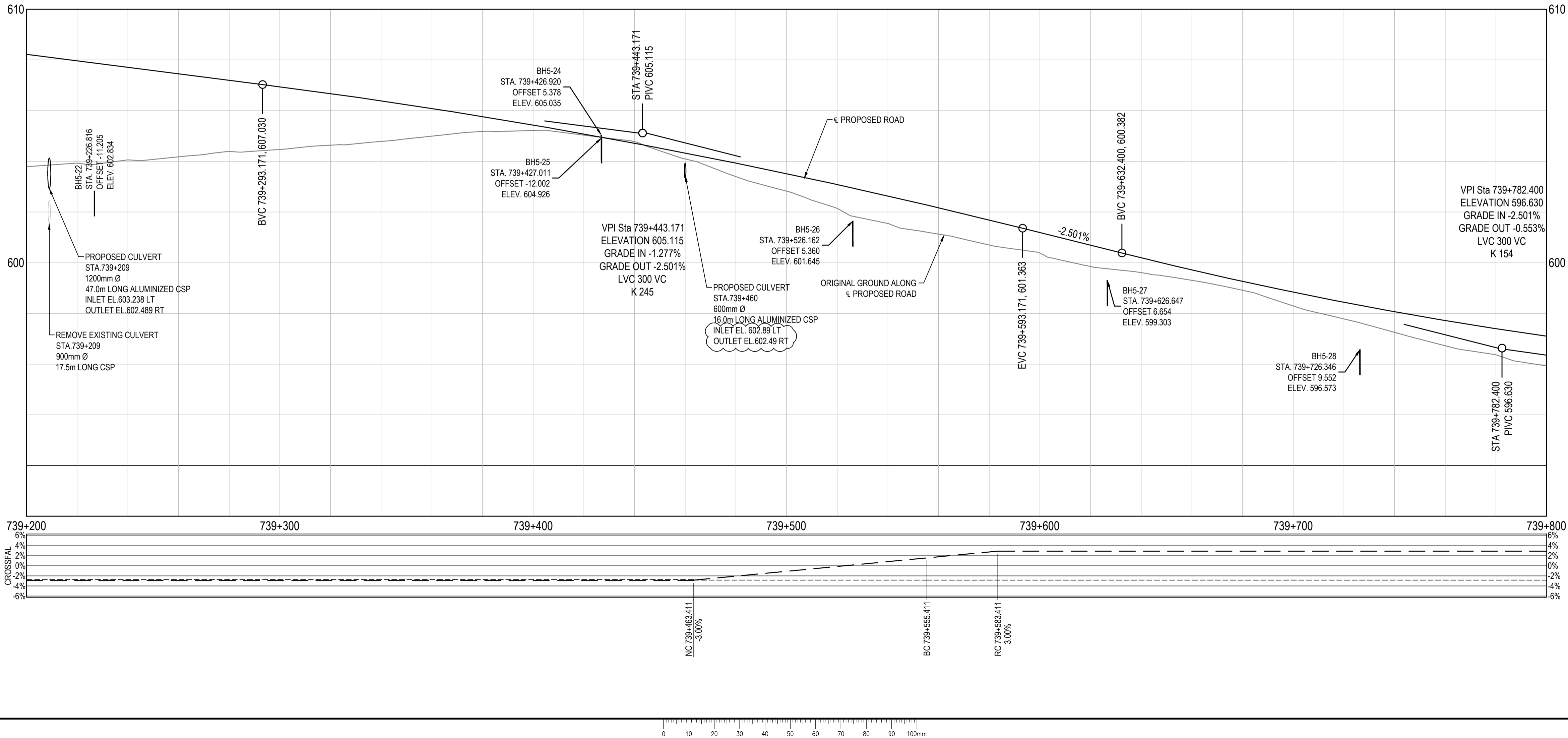
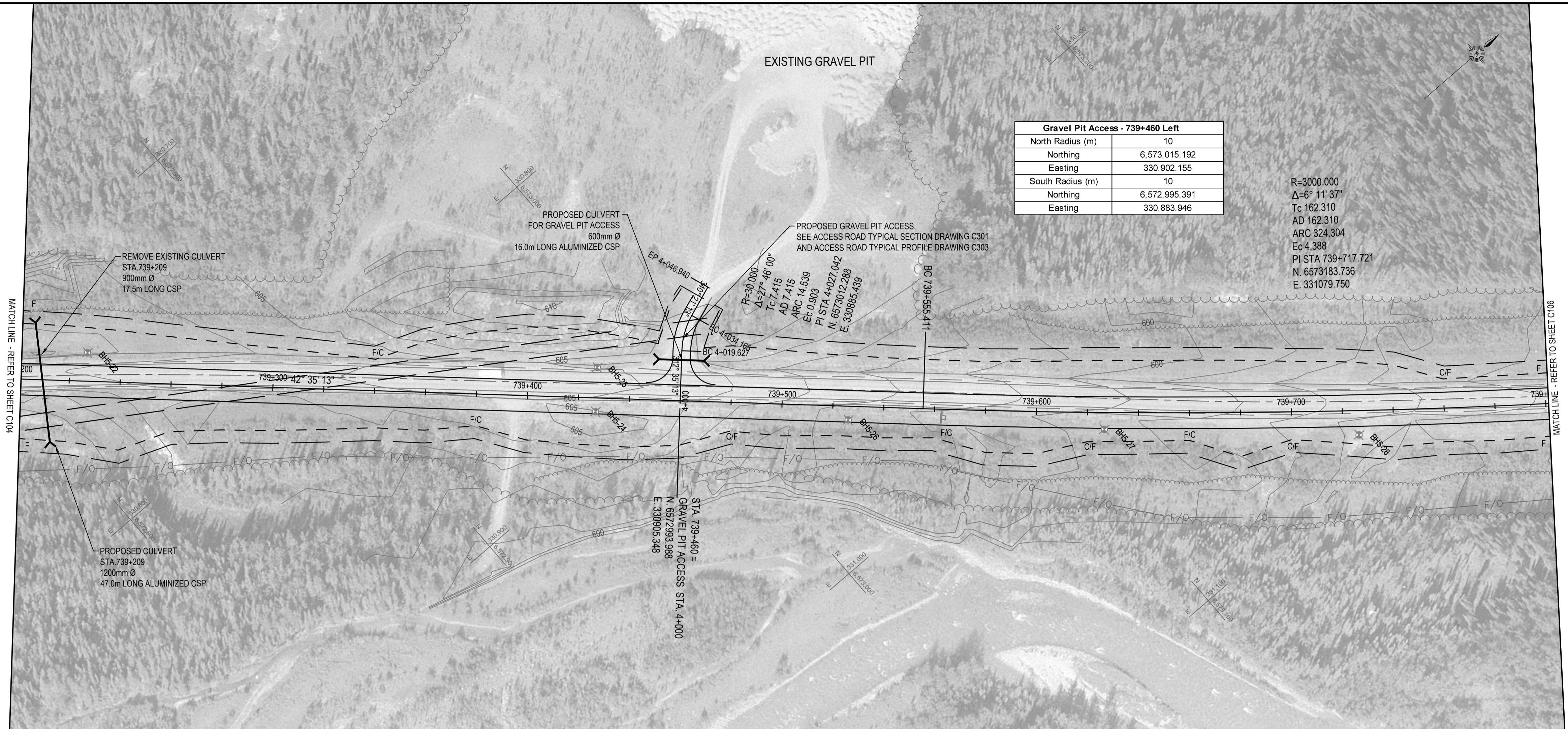
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C104

Revision no./
Lo Révision
no.

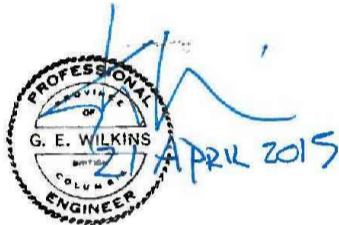
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C:\temp\338-750\C101 - C111 RUN 11 PLAN PROFILES SOUTH.dwg [C105] April 21, 2015 - 7:20:49 pm (BY: MATSUDA, STAN)



ISSUED FOR TENDER

- GENERAL NOTES:
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PROFILE:
TOP OF EX. BST
TOP OF PROP. BST
SUPERELEVATION:
RIGHT HAND SIDE
LEFT HAND SIDE

DESIGN SPEED 100 km/h

0 10 1:1000 50m

1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



Project title/Titre du projet
**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

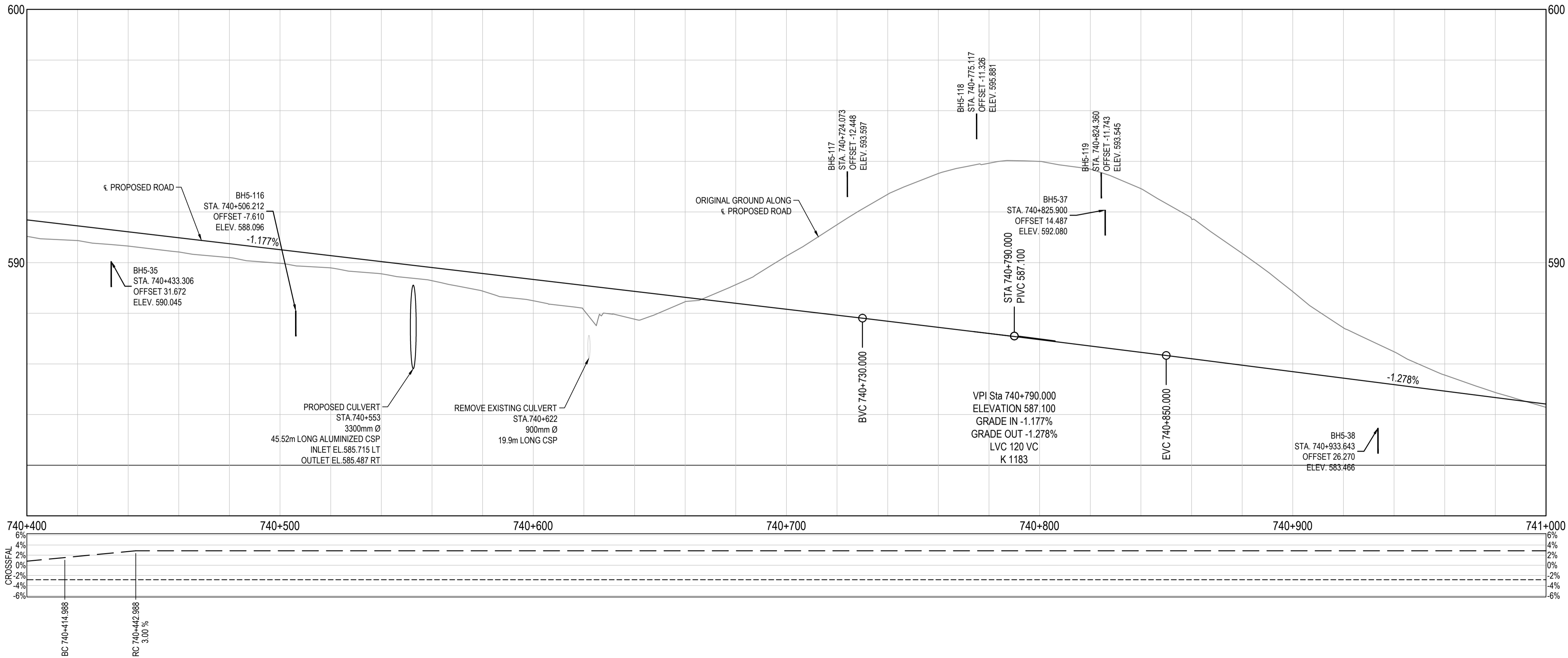
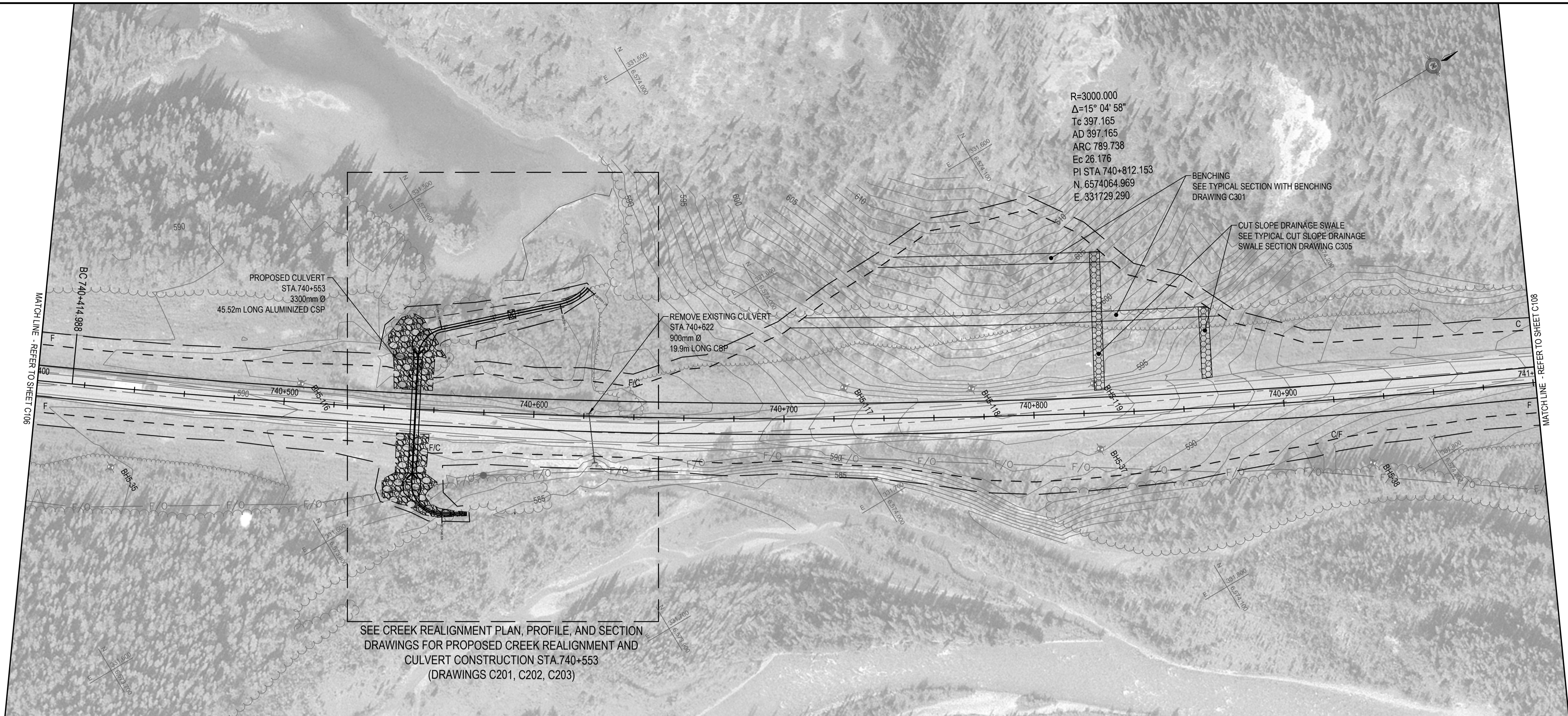
Approved by/Approuvé par
G.WILKINS
Designed by/Concept par
A.HORWOOD / S. MATSUDA
Drawn by/Dessiné par
A.DEEPWELL
PWGSC Project Manager/Administrateur de Projets TPSGC
A. TAHERI
PWGSC Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin
**PLAN / PROFILE
STA 739+200 TO 739+800**

Project No./No. du projet
R.017173.701
Sheet/Feuille
C105
Revision no./
La Révision
1

C:\temp\338-750\C101 - C111 RUN 11 PLAN PROFILES SOUTH.dwg [C107] March 26, 2015 - 10:58:40 am (BY: MATSUDA, STAN)



ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED. PROFILE DRAWN AT 10x VERTICAL EXAGGERATION
 - LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.
 - UNLESS NOTED OTHERWISE, ALL EXISTING SIGNS AND POSTS WITHIN THE LIMITS OF WORK SHALL BE REMOVED AND STOCKPILED IN A LOCATION DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
 - SEE TABLE DRAWING C212 FOR CULVERT LAYOUT DETAILS.
 - REFER TO GEOTECHNICAL DATA REPORT FOR BOREHOLE DETAILS.
 - EXTENTS OF CUT SLOPE STABILIZATION MATERIAL AND SPECIALTY EMBANKMENT TO BE VERIFIED BY DEPARTMENTAL REPRESENTATIVE DURING CONSTRUCTION.



PROFILE:
TOP OF EX. BST
TOP OF PROP. BST

SUPERELEVATION:
RIGHT HAND SIDE
LEFT HAND SIDE

DESIGN SPEED 100 km/h

0 10 1:1000 50m

Revision	Description/Description	Date/Date
0	ORIGINAL TENDER SUBMISSION	15/03/27

Client/client

PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA



Project title/Titre du projet

KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC

Approved by/Approuvé par
G.WILKINS

Designed by/Concept par
A.HORWOOD / S. MATSUDA

Drawn by/Dessiné par
A.DEEPWELL

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
PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

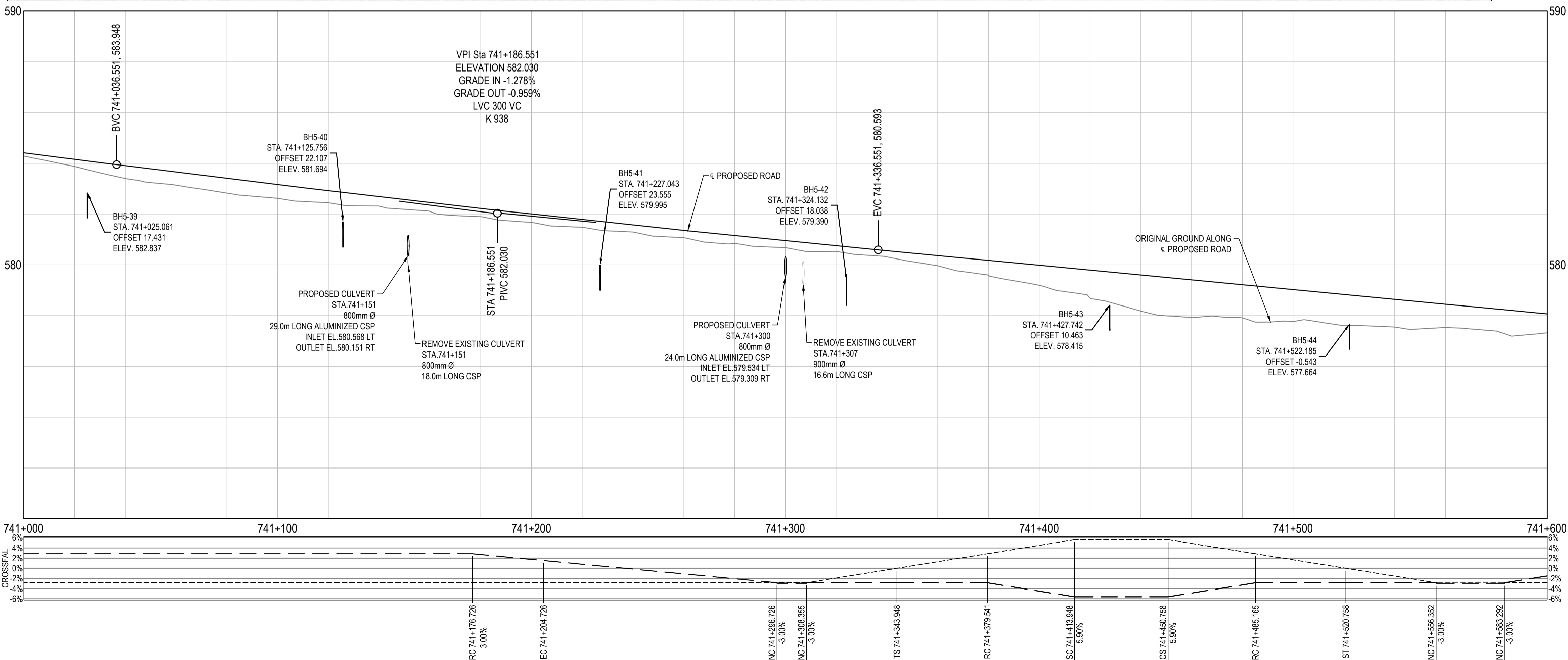
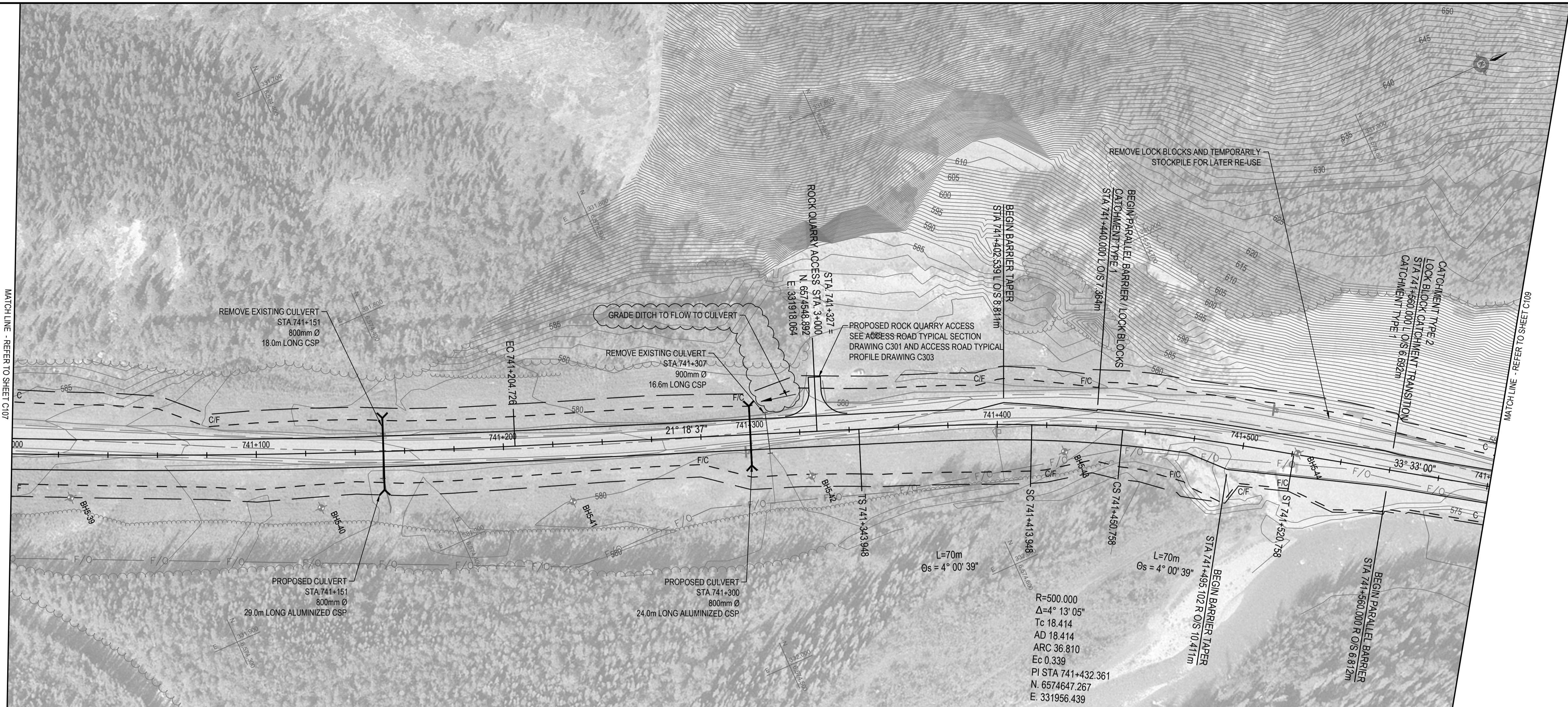
PLAN / PROFILE
STA 740+400 TO 741+000

Project No./No. du
projet
R.017173.701

Sheet/Feuille
C107

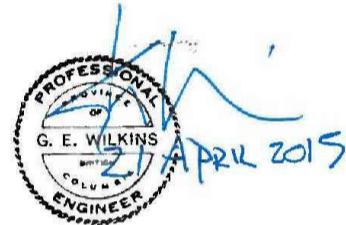
Revision no./
La Révision
no.
0

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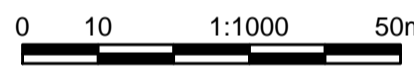
ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
 - PROFILE DRAWN AT 10x VERTICAL EXAGGERATION
 - LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.
 - UNLESS NOTED OTHERWISE, ALL EXISTING SIGNS AND POSTS WITHIN THE LIMITS OF WORK SHALL BE REMOVED AND STOCKPILED IN A LOCATION DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
 - SEE TABLE DRAWING C208 FOR CULVERT AND SIGN LAYOUT DETAILS.
 - REFER TO GEOTECHNICAL DATA REPORT FOR BOREHOLE DETAILS.
 - EXTENTS OF CUT SLOPE STABILIZATION MATERIAL AND SPECIALTY EMBANKMENT TO BE VERIFIED BY DEPARTMENTAL REPRESENTATIVE DURING CONSTRUCTION.



PROFILE:
TOP OF EX. BST
TOP OF PROP. BST
SUPERELEVATION:
RIGHT HAND SIDE
LEFT HAND SIDE

DESIGN SPEED 100 km/h



1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



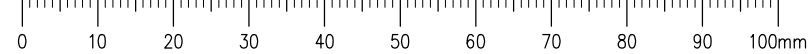
Project title/Titre du projet
**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

Approved by/Approuvé par
G.WILKINS
Designed by/Concept par
A.HORWOOD / S. MATSUDA
Drawn by/Dessiné par
A.DEEPWELL
PWGSC Project Manager/Administrateur de Projets TPWGC
A. TAHERI
PWGSC Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPWGC

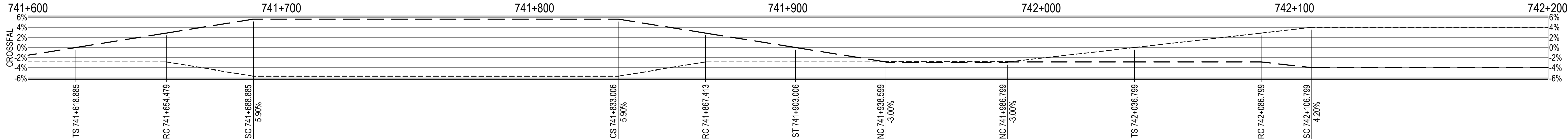
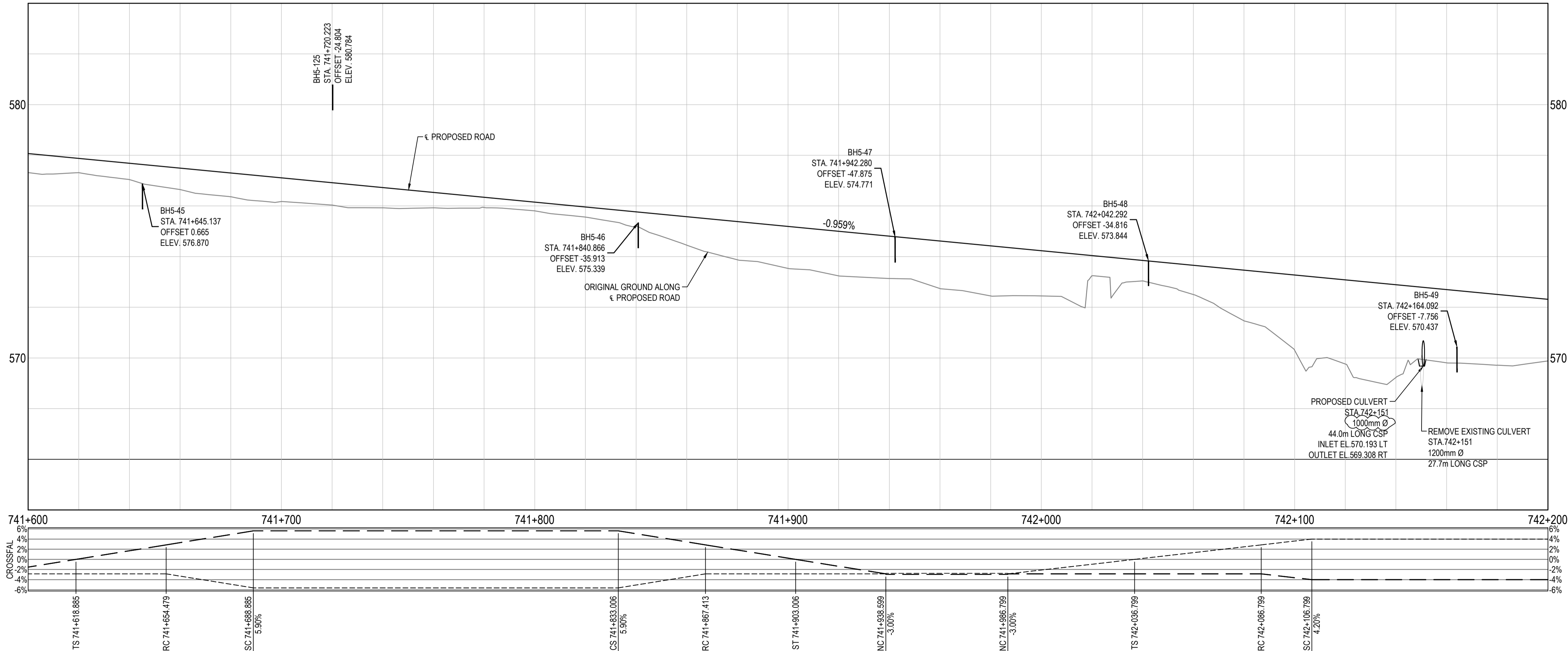
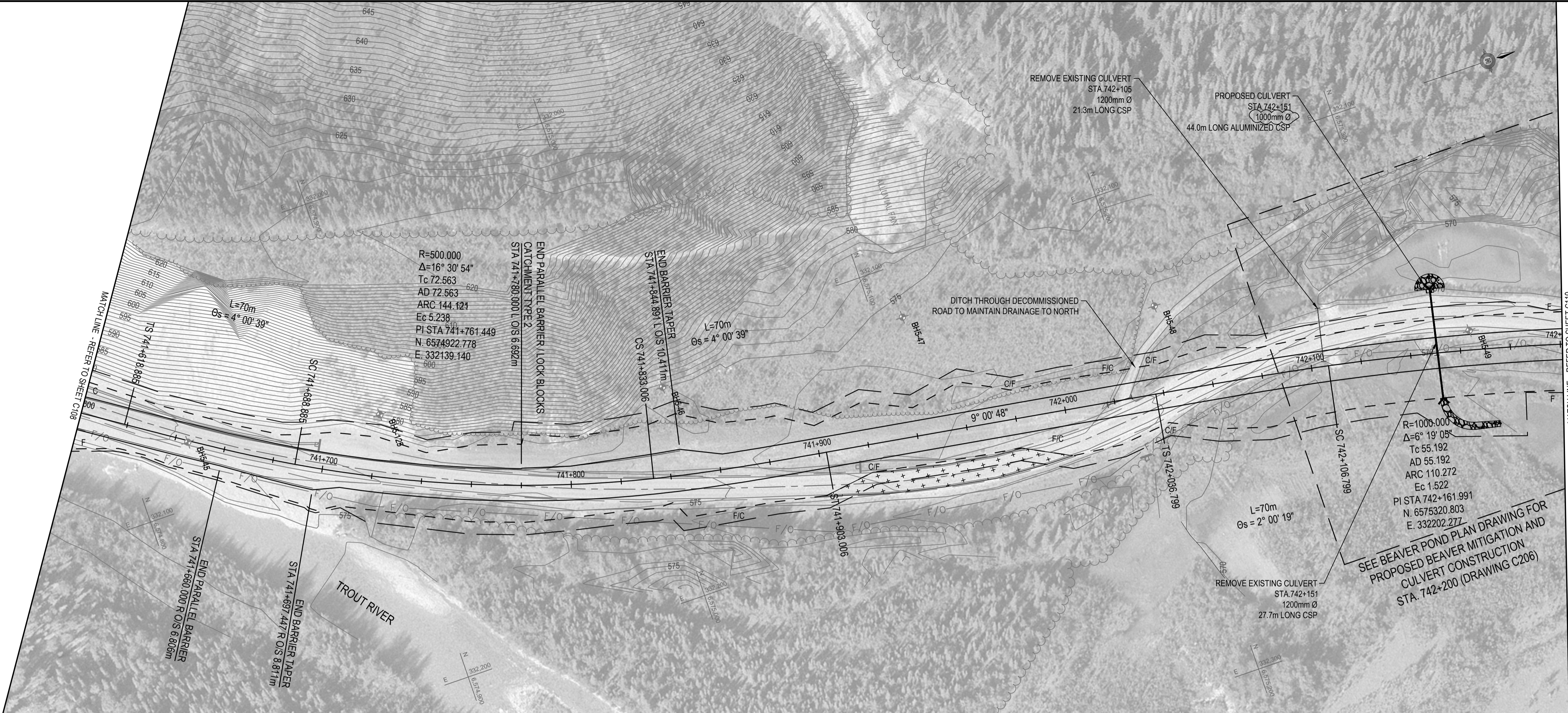
Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin
**PLAN / PROFILE
STA 741+000 TO 741+600**

Project No./No. du projet R.017173.701	Sheet/Feuille C108	Revision no./ Lo Révision 1
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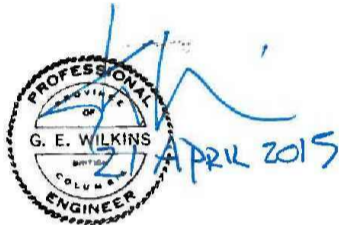


C:\temp\338-750\01 - C111 RUN 11 PLAN PROFILES SOUTH.dwg [C109] April 21, 2015 - 7:25:55 pm (BY: MATSUDA, STAN)



ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
 - PROFILE DRAWN AT 10x VERTICAL EXAGGERATION
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PROFILE:
TOP OF EX. BST
TOP OF PROP. BST
SUPERELEVATION:
RIGHT HAND SIDE
LEFT HAND SIDE

DESIGN SPEED 100 km/h

0 10 1:1000 50m

1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



Project title/Titre du projet
**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

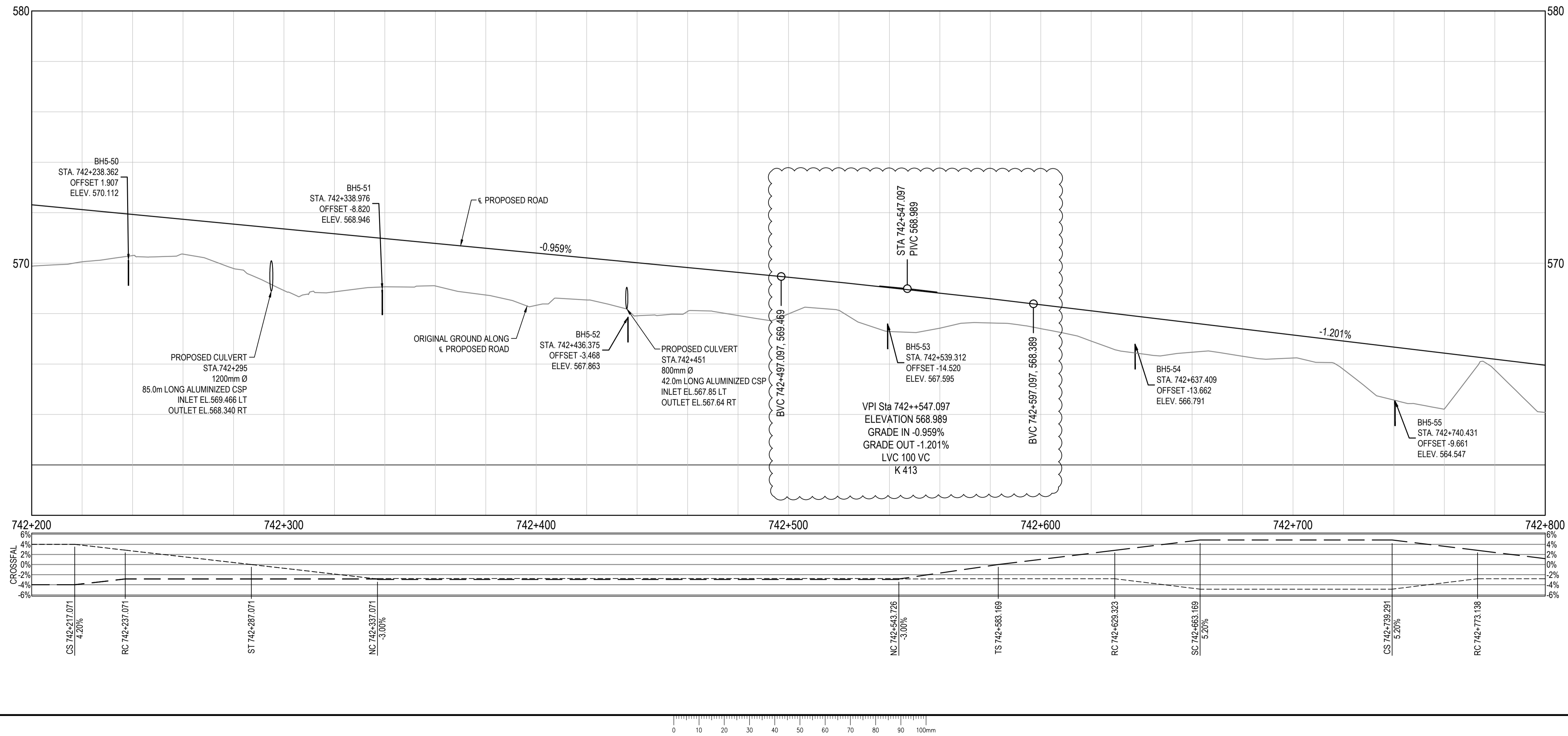
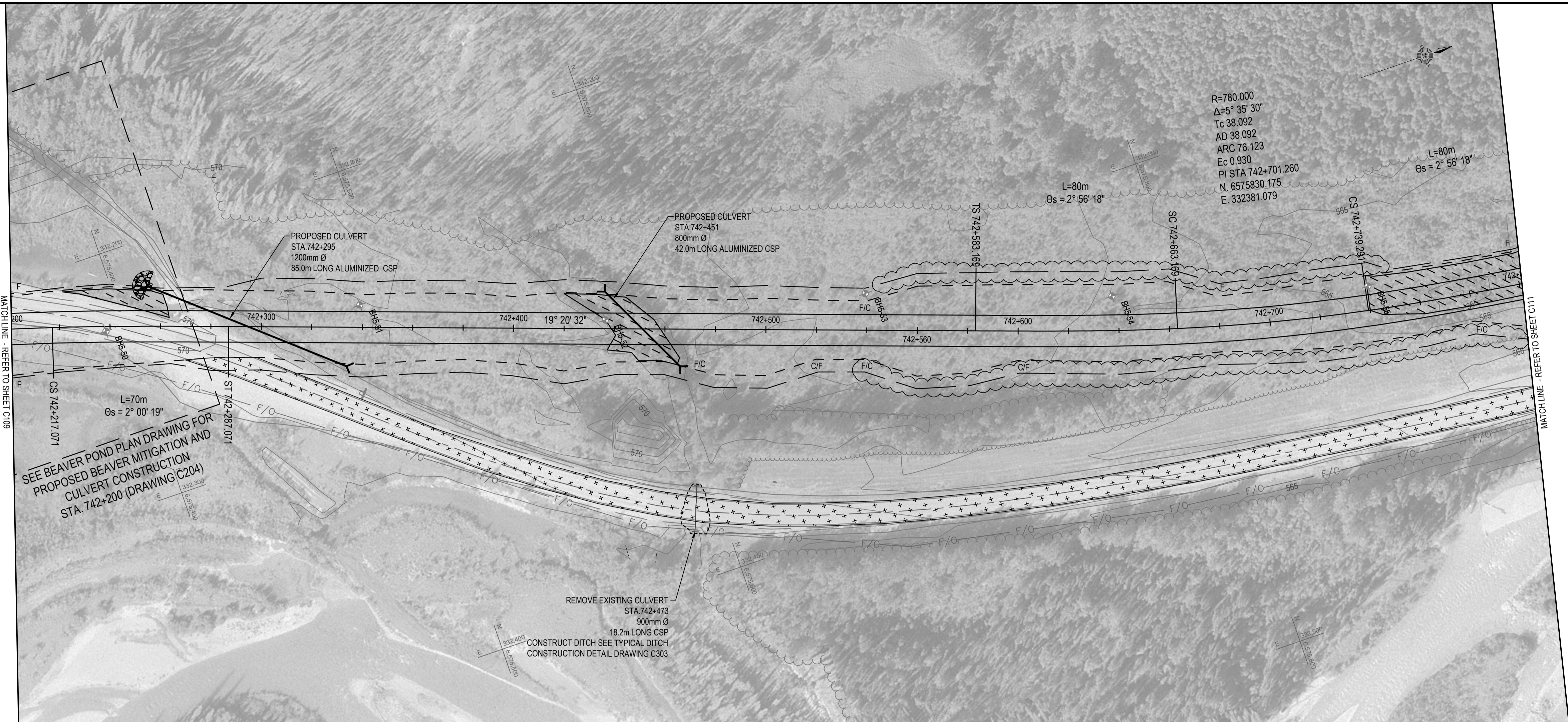
Approved by/Approuvé par
G.WILKINS
Designed by/Concept par
A.HORWOOD / S. MATSUDA
Drawn by/Dessiné par
A.DEEPWELL
PWGSC Project Manager/Administrateur de Projets TPSGC
A. TAHERI
PWGSC Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSGC

Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin
**PLAN / PROFILE
STA 741+600 TO 742+200**

Project No./No. du projet R.017173.701	Sheet/Feuille C109	Revision no./ La Révision no. 1
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C:\temp\338-750\C101 - C111 RUN 11 PLAN PROFILES SOUTH.dwg [C110] April 21, 2015 - 5:53:27 pm (BY: MATSUDA, STAN)



ISSUED FOR TENDER

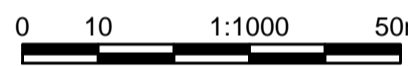
- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
 - PROFILE DRAWN AT 10x VERTICAL EXAGGERATION
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 - EXTENTS OF CUT SLOPE STABILIZATION MATERIAL AND SPECIALTY EMBANKMENT TO BE VERIFIED BY DEPARTMENTAL REPRESENTATIVE DURING CONSTRUCTION.



PROFILE:
TOP OF EX. BST _____
TOP OF PROP. BST _____

SUPERELEVATION:
RIGHT HAND SIDE _____
LEFT HAND SIDE _____

DESIGN SPEED 100 km/h



1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



Project title/Titre du projet
**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

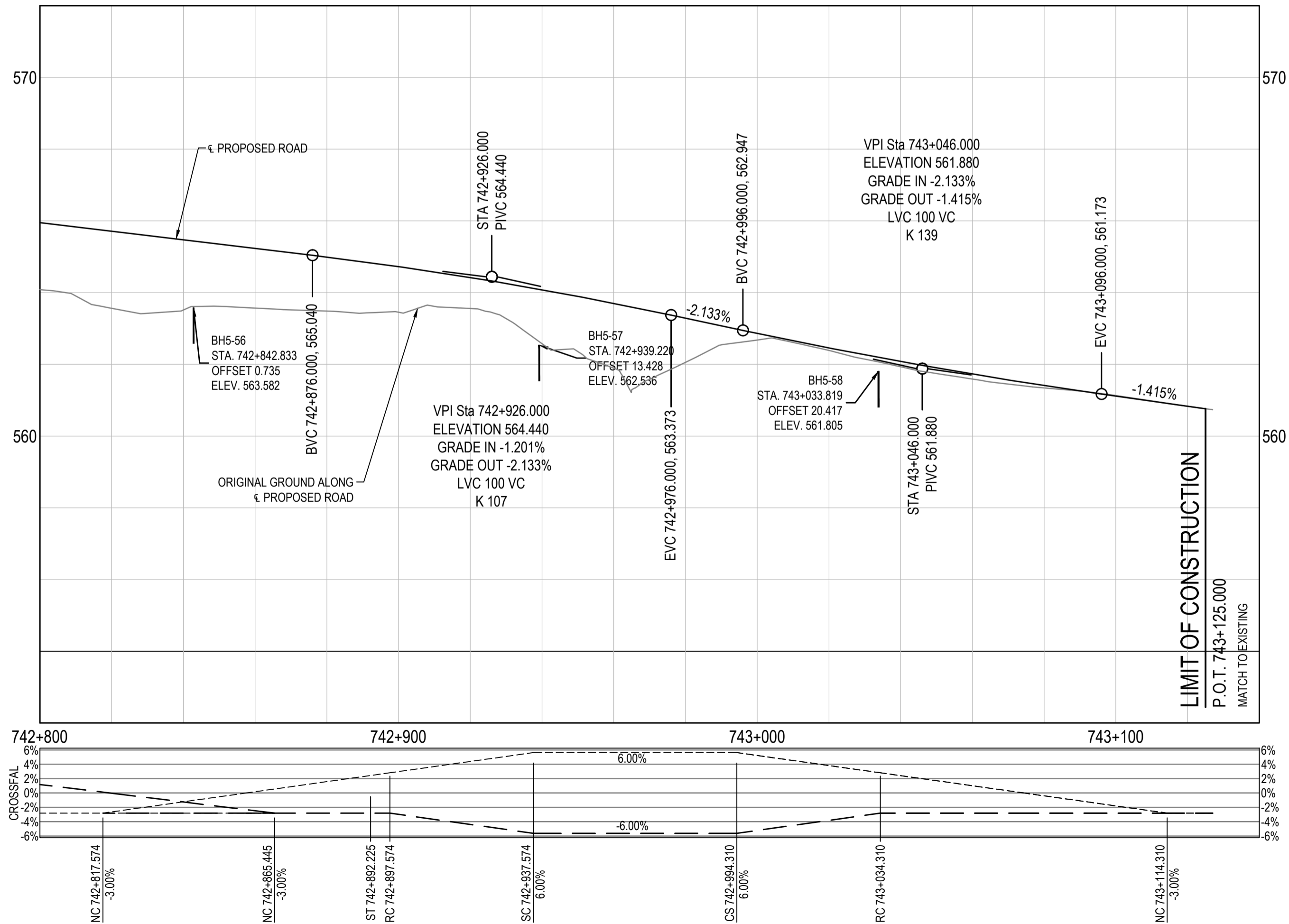
Approved by/Approuvé par
G.WILKINS
Designed by/Concept par
A.HORWOOD / S. MATSUDA
Drawn by/Dessiné par
A.DEEPWELL
PWGSC Project Manager/Administrateur de Projets TPSCG
A. TAHERI
PWGSC Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSCG

Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin
**PLAN / PROFILE
STA 742+200 TO 742+800**

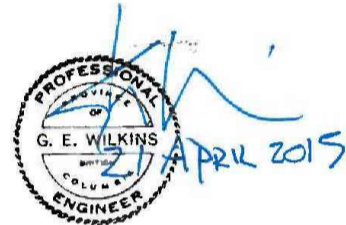
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.017173.701	C110	1

C:\temp\38-750\C101 - C111 RUN 11 PLAN PROFILES SOUTH.dwg [C111] April 21, 2015 - 5:53:50 pm (BY: MATSUDA, STAN)



ISSUED FOR TENDER

- GENERAL NOTES:
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED. PROFILE DRAWN AT 10x VERTICAL EXAGGERATION
 2. LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.
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 4. SEE TABLE DRAWING C208 FOR CULVERT AND SIGN LAYOUT DETAILS.
 5. REFER TO GEOTECHNICAL DATA REPORT FOR BOREHOLE DETAILS.
 6. EXTENTS OF CUT SLOPE STABILIZATION MATERIAL AND SPECIALTY EMBANKMENT TO BE VERIFIED BY DEPARTMENTAL REPRESENTATIVE DURING CONSTRUCTION.



PROFILE:
TOP OF EX. BST _____
TOP OF PROP. BST _____
SUPERELEVATION:
RIGHT HAND SIDE _____
LEFT HAND SIDE _____

DESIGN SPEED 100 km/h

0 10 1:1000 50m

1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client

PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA



Project title/Titre du projet

KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC

Approved by/Approuvé par G.WILKINS
Designed by/Concept par A.HORWOOD / S. MATSUDA
Drawn by/Dessiné par A.DEEPWELL
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
PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin
PLAN / PROFILE
STA 742+800 TO 743+400

Project No./No. du projet R.017173.701	Sheet/Feuille C111	Revision no./ La Révision no. 1
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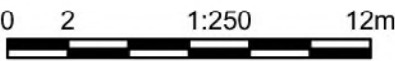
C:\temp\338-750\C101 - C111 RUN 11 PLAN PROFILES-SOUTH.dwg [C201] April 21, 2015 - 6:11:06 pm (BY: MATSUDA, STAN)



CREEK REALIGNMENT LAYOUT DATA					
STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
1+000.001	0.0	6573941.732	331566.481	587.55	L.O.C.
1+012.880	0.0	6573929.075	331566.387	587.25	E.C.
1+061.252	0.0	6573983.304	331550.737	586.11	B.C.
1+076.964	0.0	6573969.446	331555.422	585.71	E.C. - CULVERT INV. GRADE
1+127.010	0.0	6573941.642	331597.010	583.98	B.C. - IN POOL
1+146.539	0.0	6573945.524	331614.017	585.48	E.C.
1+156.406	0.0	6573954.024	331619.028	585.24	L.O.C.

ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
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1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client
**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**

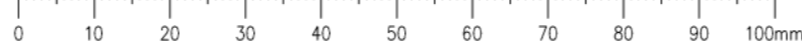


Project title/Titre du projet
**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

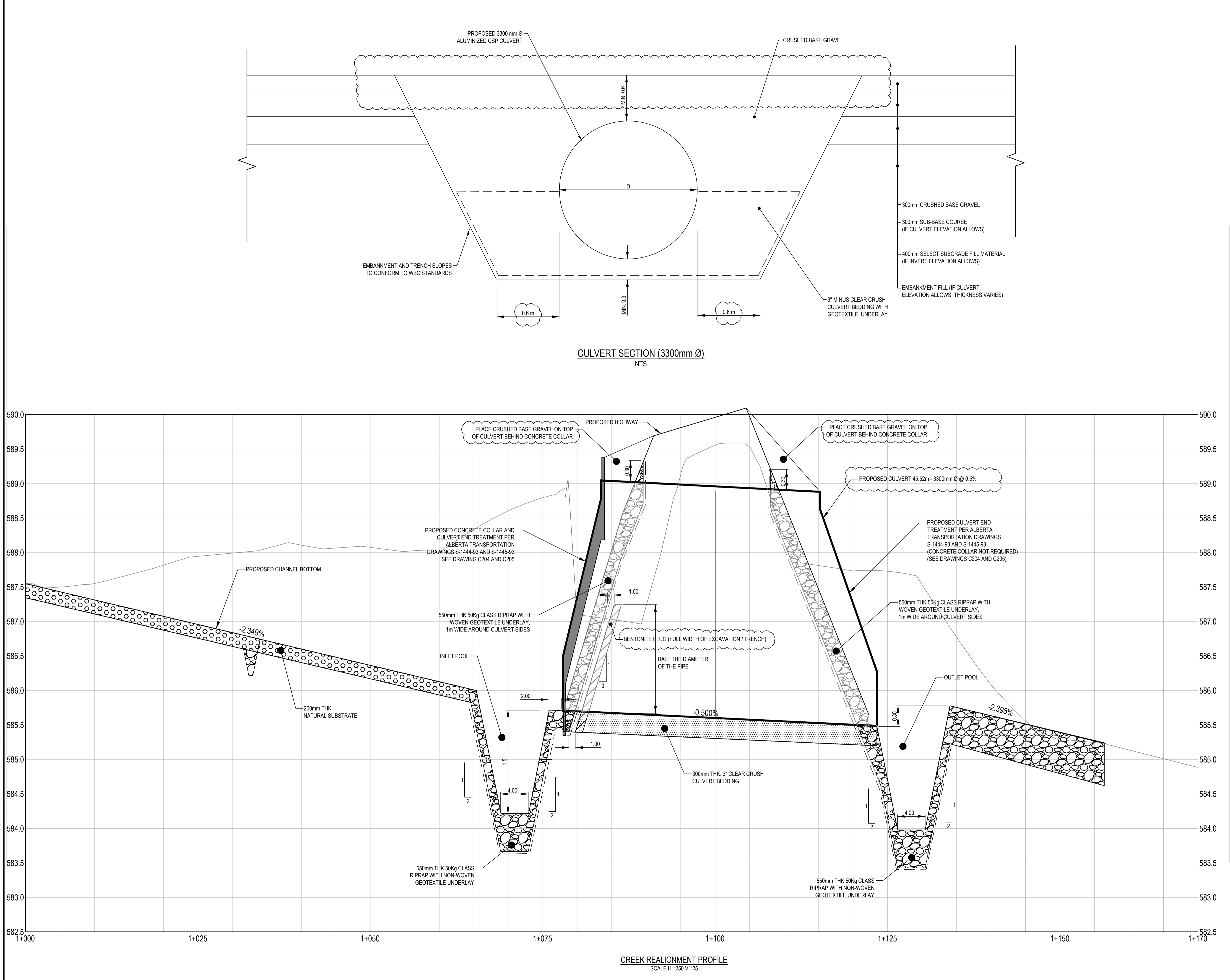
Approved by/Approuvé par
G.WILKINS
Designed by/Concepté par
A.HORWOOD / S.MATSUDA
Drawn by/Dessiné par
A.DEEPWELL
PWGSC Project Manager/Administrateur de Projets TPSCG
A. TAHERI
PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSCG

Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA
Drawing title/Titre du dessin
**CREEK REALIGNMENT PLAN
CULVERT AT STA. 740+553**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.017173.701	C201	1



C:\temp\338-750\C101 - C111 RUN 11 PLAN PROFILES SOUTH.dwg [C202] April 21, 2015 - 6:08:28 pm (BY: MATSUDA, STAN)



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES

Western Region

SERVICES IMMOBILIERS

Région de l'ouest

ISSUED FOR TENDER

GENERAL NOTES:

1. DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.

2. LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.

0 2 1:250 12m

1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Project title/Titre du projet

KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC

Approved by/Approuvé par
G.WILKINS

Designed by/Concept par
A.HORWOOD / S.MATSUDA

Drawn by/Dessiné par
A.DEEPWELL

PWGSC Project Manager/Administrateur de Projets TPSGC
A. TAHERI

PWGSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie, TPSGC

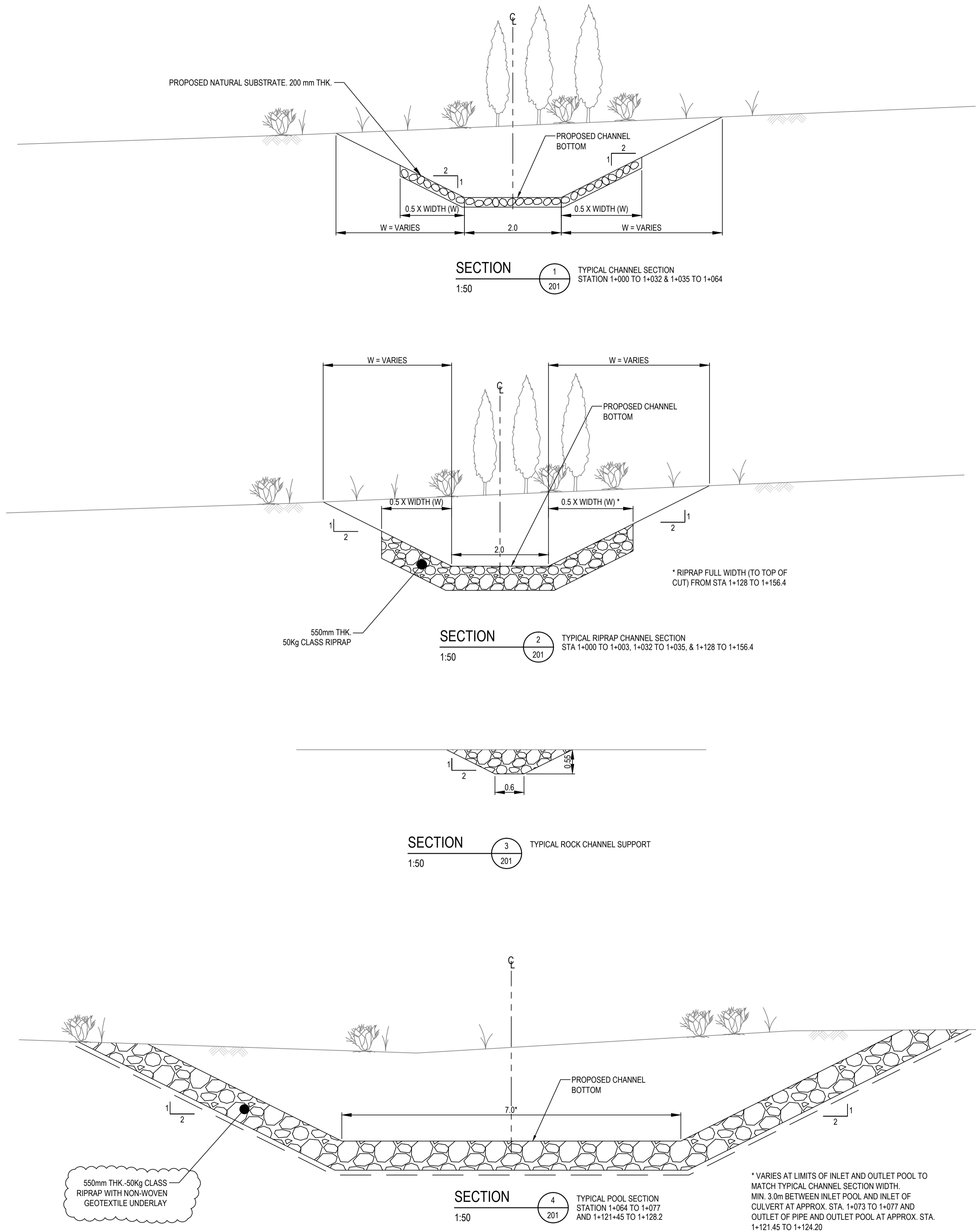
Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin
CREEK REALIGNMENT PROFILE
CULVERT AT STA. 740+553

Project No./No. du projet R.017173.701	Sheet/Feuille C202	Revision no./Lo Révision no. 1
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C:\temp\338-750\C101 - C111 RUN 11 PLAN PROFILES SOUTH.dwg [C203] April 21, 2015 - 6:08:43 pm (BY: MATSUDA, STAN)



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES

Western Region

SERVICES IMMOBILIERS

Région de l'ouest

ISSUED FOR TENDER

GENERAL NOTES:

1. DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.

2. LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.

00.51.502.5m

1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date
Client/client		
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA		
Project title/Titre du projet		
KM 737 - 743.1 HIGHWAY REALIGNMENT ALASKA HIGHWAY, BC		
Approved by/Approuvé par G.WILKINS		
Designed by/Concept par A.HORWOOD / S.MATSUDA		
Drawn by/Dessiné par A.DEEPWELL		
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 PUBLIC WORKS GOVERNMENT SERVICES CANADA		
Drawing title/Titre du dessin CREEK REALIGNMENT SECTIONS CULVERT AT STA. 740+553		
Project No./No. du projet R.017173.701	Sheet/Feuille C203	Revision no./Lo Révision no. 1

GENERAL NOTES:

1. DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
2. LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.
3. CONTRACTOR MAY ELECT TO USE ALTERNATIVE ANCHOR BOLT. REFER TO SPECIFICATION SECTION 03 30 00 - CONCRETE CULVERT END TREATMENT FOR DETAILS.



BAR LISTS FOR PIPE DIAMETERS 2 700 mm AND 2 740 mm

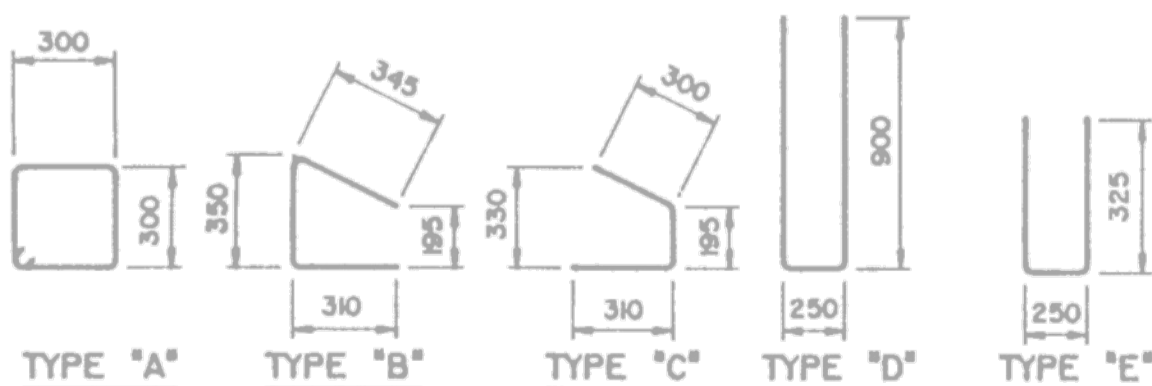
DIA	MARK	SIZE	NO.	TYPE	LENGTH (mm)	MASS (kg)
2 700 mm CSP	A 1001	10	14	A	1 480	16
	A 1501	15	6	STR	3 300	31
	C 1501	15	4	STR	12 000	75
	C 1502	15	15	D	2 050	48
	C 1503	15	15	E	900	21
	S 1001	10	30	C	995	19
	S 1002	10	30	B	1 005	24
	S 1501	15	14	STR	5 000	110
	TOTAL					344
2 740 mm SPCSP	A 1001	10	15	A	1 480	17
	A 1501	15	6	STR	3 500	33
	C 1501	15	4	STR	12 000	75
	C 1502	15	15	D	2 050	48
	C 1503	15	15	E	900	21
	S 1001	10	30	C	805	19
	S 1002	10	30	B	1 005	24
	S 1501	15	14	STR	4 800	106
	TOTAL					343

BAR LISTS FOR PIPE DIAMETERS FROM 3 000 mm TO 4 610 mm

DIA	MARK	SIZE	NO.	TYPE	LENGTH (mm)	MASS (kg)
3 000 mm CSP	A 1001	10	16	A	1 680	21
	A 1501	15	6	STR	4 000	38
	C 1501	15	5	STR	12 000	94
	C 1502	15	16	D	2 250	57
	C 1503	15	16	E	900	23
	S 1001	10	32	C	995	25
	S 1002	10	32	B	1 320	33
	S 1501	15	14	STR	5 200	114
	TOTAL					405
3 060 mm SPCSP	A 1001	10	17	A	1 680	22
	A 1501	15	6	STR	4 300	41
	C 1501	15	6	STR	12 000	113
	C 1502	15	16	D	2 250	57
	C 1503	15	16	E	900	23
	S 1001	10	30	C	995	23
	S 1002	10	30	B	1 320	31
	S 1501	15	14	STR	4 800	106
	TOTAL					416
3 300 mm CSP	A 1001	10	16	A	1 680	21
	A 1501	15	6	STR	4 100	39
	C 1501	15	6	STR	12 000	113
	C 1502	15	17	D	2 250	60
	C 1503	15	17	E	900	24
	S 1001	10	36	C	995	28
	S 1002	10	36	B	1 320	37
	S 1501	15	14	STR	5 900	130
	TOTAL					452
3 360 mm SPCSP	A 1001	10	19	A	1 680	25
	A 1501	15	6	STR	4 900	46
	C 1501	15	6	STR	12 000	113
	C 1502	15	17	D	2 250	60
	C 1503	15	17	E	900	24
	S 1001	10	30	C	995	23
	S 1002	10	30	B	1 320	31
	S 1501	15	14	STR	4 800	106
	TOTAL					428
3 600 mm CSP	A 1001	10	18	A	1 680	24
	A 1501	15	6	STR	4 500	42
	C 1501	15	6	STR	12 000	113
	C 1502	15	18	D	2 250	64
	C 1503	15	18	E	900	25
	S 1001	10	38	C	995	30
	S 1002	10	38	B	1 320	39
	S 1501	15	14	STR	6 200	136
	TOTAL					473
3 670 mm SPCSP	A 1001	10	21	A	1 680	28
	A 1501	15	6	STR	5 400	51
	C 1501	15	7	STR	12 000	132
	C 1502	15	18	D	2 250	64
	C 1503	15	18	E	900	25
	S 1001	10	30	C	995	23
	S 1002	10	30	B	1 320	31
	S 1501	15	14	STR	4 800	106
	TOTAL					460

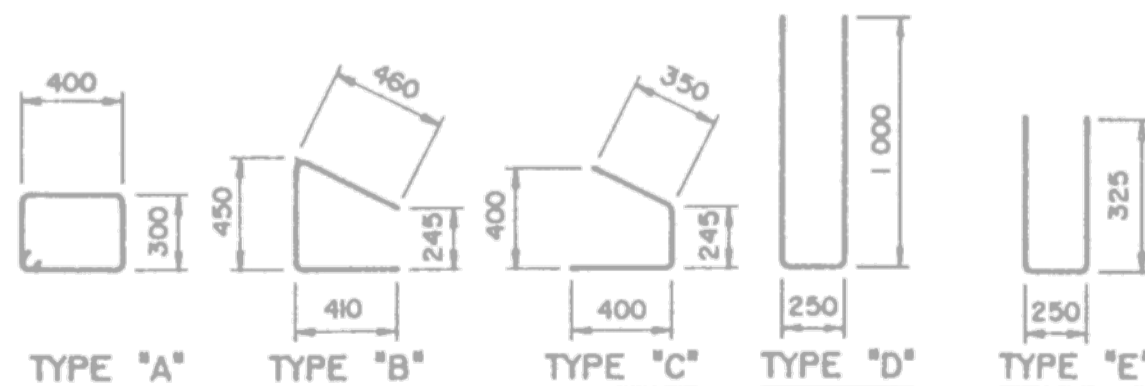
BAR TYPES FOR PIPE DIAMETERS 2 700 mm AND 2 740 mm

- BAR DIMENSIONS ARE OUT TO OUT. NTS



BAR TYPES FOR PIPE DIAMETERS FROM 3 000 mm TO 4 610 mm

- BAR DIMENSIONS ARE OUT TO OUT. NTS



DATA FOR STANDARD CONCRETE END TREATMENT

DIAMETER DATA		2 700 CSP		2 740 SPCSP	3 000 CSP	3 050 SPCSP	3 300 CSP	3 360 SPCSP	3 600 CSP	3 670 SPCSP	3 990 SPCSP	4 300 SPCSP	4 610 SPCSP	4 920 SPCSP	5 230 SPCSP	5 540 SPCSP	5 850 SPCSP	6 160 SPCSP
CUT-OFF	WIDTH	A	4 200	4 240	4 500	4 550	4 800	4 860	5 100	5 170	5 490	5 800	6 110	6 920	7 230	7 540	7 850	8 160
	DEPTH - MIN.	B	600	600	700	700	700	700	700	700	700	700	700	1 000	1 000	1 000	1 000	1 000
	DEPTH - MAX.	C	1 250	1 305	1 500	1 610	1 500	1 765	1 600	1 920	2 080	2 235	2 390	2 336	2 491	2 646	2 496	2 651
SHOULDER	THICKNESS	D	350	350	350	350	350	350	350	350	350	350	350	450	450	450	450	450
	WIDTH	E	500	500	600	600	600	600	600	600	600	600	600	800	800	800	800	800
	DEPTH	F	500	500	600	600	600	600	600	600	600	600	600	800	800	800	800	800
ARCH	WIDTH	J	400	400	500	500	500	500	500	500	500	500	500	500	500	500	500	500
	DEPTH	K	400	400	400	400	400	400	400	400	400	400	400	500	500	500	500	500
	RADIUS	L	1 750	1 770	1 900	1 925	2 050	2 080	2 200	2 235	2 395	2 550	2 705	2 960	3 115	3 270	3 435	3 580
BEVEL	LENGTH	H	3 800	3 658	4 000	3 658	4 600	3 658	4 800	3 658	3 658	3 658	3 658	6 096	6 096	6 096	7 315	7 315
	CENTRE	V	1 900	1 830	2 000	1 830	2 300	1 830	2 400	1 830	1 830	1 830	1 830	3 048	3 048	3 048	3 658	3 658
	TOP & BOTTOM	Y	400	455	500	610	500	765	600	920	1 080	1 235	1 390	936	1 091	1 246	1 096	1 251
CONCRETE	CUT-OFF WALL (m³)		1.6	1.6	2.0	2.0	2.2	2.2	2.4	2.4	2.7	3.0	3.3	5.5	5.9	6.3	6.4	6.9
	SHOULDER (m³)		1.8	1.6	2.6	2.2	2.8	2.2	3.0	2.2	2.2	2.2	2.2	6.6	6.6	6.6	8.0	8.0
	ARCH (m³)		0.6	0.7	0.8	0.9	0.9	1.0	0.9	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0
BOLTS	TOTAL (m³)		4.0	3.9	5.4	5.1	5.9	5.4	6.3	5.7	6.1	6.5	6.9	13.7	14.2	14.7	16.3	16.9
	NUMBER OF ANCHOR BOLTS (c/w 2 NUTS)		46	46	50	50	54	54	58	58	62	66	70	80	84	88	94	98

DIMENSION REVISED FOR
THIS PROJECT TO 6900

NOTE :

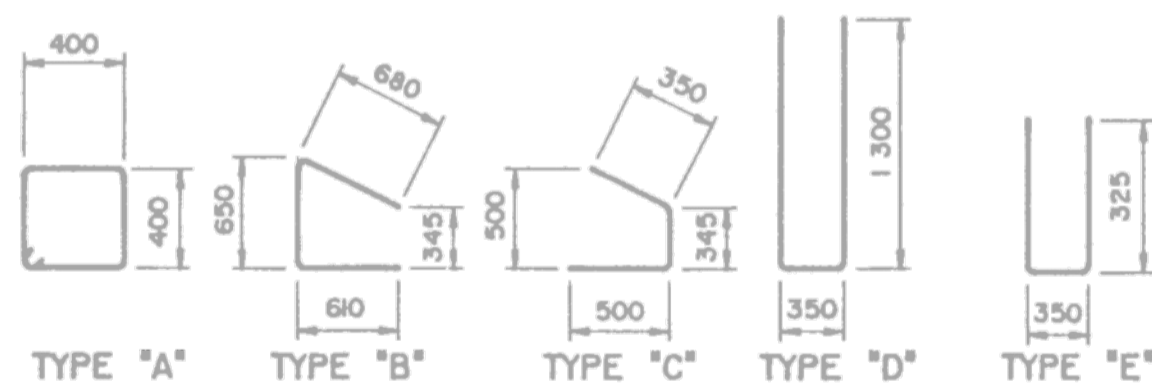
INDIVIDUAL BAR LISTS AND
DATA QUANTITIES ARE GIVEN
FOR ONE CONCRETE END
TREATMENT ONLY.

GENERAL NOTES FOR SPCSP AND CSP CONCRETE END TREATMENT

- DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS NOTED OTHERWISE.
- HOLES IN THE CULVERT PLATE (22 mm DIA) TO BE FIELD DRILLED TO RECEIVE ANCHOR BOLTS (DO NOT BURN).
- AFTER PIPE HAS BEEN COMPLETELY BACKFILLED, CONCRETE END TREATMENT SHALL BE BUILT STARTING WITH THE CUT-OFF WALL, FOLLOWED BY THE SHOULDERS AND THE ARCH. EACH CONCRETE SHOULD BE POURED IN ONE CONTINUOUS POUR BEGINNING FROM THE CUT-OFF WALL.
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA-630J8-M92 "BILLET-STEEL FOR CONCRETE REINFORCEMENT".
- ALL REINFORCING STEEL SHALL BE GRADE 400 UNLESS NOTED OTHERWISE.
- DIAMETERS OF ALL BENDS AND DETAILS OF ALL HOOKS, UNLESS NOTED OTHERWISE SHALL CONFORM TO THE RECOMMENDED SIZES DETAILED IN THE REINFORCING STEEL MANUAL OF STANDARD PRACTICE, FIRST EDITION 1992, PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF CANADA.
- ALL REINFORCING BARS TO HAVE A MINIMUM OF 50 mm COVER UNLESS NOTED OTHERWISE.
- ALL LAP SPLICES TO BE A MINIMUM OF 30 TIMES THE DIAMETER OF THE REBAR.
- REINFORCING STEEL TO BE CONTINUOUS BETWEEN EACH SECTION, WELDING OF REINFORCEMENT IS NOT PERMITTED. REFER TO THE CURRENT VERSION OF B352 "REINFORCEMENT" SECTION 5 OF THE BRIDGE CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REINFORCING STEEL AS NOTED IN THE BAR LIST IS CALLED UP BY THE FOLLOWING CONVENTION :
A - CONCRETE ARCH
C - CONCRETE CUT-OFF WALL
S - CONCRETE SHOULDER
- ALL CONCRETE SHALL BE CLASS "B", STRENGTH REQUIREMENT 25MPa AT 28 DAYS.
- CAST-IN-PLACE CONCRETE SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF B351 "CAST-IN-PLACE CONCRETE" SECTION 4 OF THE BRIDGE CONSTRUCTION SPECIFICATIONS.
- CONCRETE SHOULDERS AND CONCRETE ARCH TO BE GIVEN A BROOM FINISH AT RIGHT ANGLES TO THE EDGE OF THE CULVERT; EXPOSED VERTICAL FACES TO BE GIVEN A CLASS 1 FINISH.
- ALL OUTSIDE EDGES TO BE SHAPED WITH A CONCRETE EDGER.
- CONCRETE TO BE COVERED WITH A CURING MEMBRANE UPON COMPLETION OF POUR.
- FORMS ARE TO BE LEFT IN PLACE FOR A MINIMUM OF 24 HOURS FOLLOWING POUR.

BAR TYPES FOR PIPE DIAMETERS FROM 4 920 mm TO 6 160 mm

- BAR DIMENSIONS ARE OUT TO OUT. NTS



DESIGNED J.O'B. J.A.E.		DRAWN H.W.M.	DATE 93-11-03	CHECKED C.T.C.	DATE 93-11-17	STREAM	LOCATION	HIGHWAY	FILE	SHEET 2 of 2	DRAWING S-1445-93
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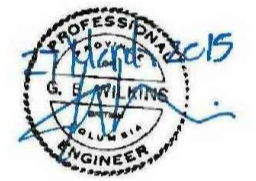
ORIGINAL DRAWING
APPROVED BY
W. W. KRAUSE
FOR
EXECUTIVE DIRECTOR
BRIDGE ENGINEERING
DEC. 2, 1993

Alberta TRANSPORTATION AND UTILITIES
BRIDGE ENGINEERING BRANCH

**CONCRETE END TREATMENT
FOR LARGE STEEL CULVERTS
SHEET 2**

ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
 - LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.



0 2 1:250 12m

Revision	Description/Description	Date/Date
0	ORIGINAL TENDER SUBMISSION	15/03/27

Client/client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



Project title/Titre du projet

KM 737 - 743.1 HIGHWAY REALIGNMENT ALASKA HIGHWAY, BC


Approved by/Approuvé par G.WILKINS
Designed by/Concept par AHORWOOD / S.MATSUDA
Drawn by/Dessiné par A.DEEPWELL
PWSSC Project Manager/Administrateur de Projets TPSSC A.TAHERI
PWSSC Architectural and Engineering Resources Manager/ Ressources Architectural et de Directeur d'Ingénierie, TPSSC
Client/client PUBLIC WORKS GOVERNMENT SERVICES CANADA
Drawing title/Titre du dessin CONCRETE END TREATMENT FOR LARGE STEEL CULVERTS SHEET 2 OF 2

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.017173.701	C205	0

C:\temp\338-750\C101 - C111 RUN 11 PLAN PROFILES SOUTH.dwg [C206] April 21, 2015 - 6:56:36 pm (BY: MATSUDA, STAN)



LAYOUT DATA				
WORKPOINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
WP1	6575314.229	332178.674	570.19	CULVERT INLET
WP2	6575305.171	332221.616	569.31	CULVERT OUTLET
WP3	6575313.915	332236.216	569.13	END OF CURVE
WP4	6575323.531	332238.610	569.03	L.O.C.



Public Works and
Government Services
Canada

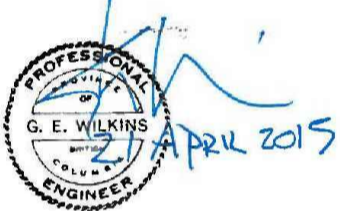
Travaux publics et
Services gouvernementaux
Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

ISSUED FOR TENDER

GENERAL NOTES:

- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
- LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.




0 2 1:250 12m

1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client

PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA



Project title/Titre du projet

KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC

Approved by/Approuvé par
G.WILKINS

Designed by/Concept par
A.HORWOOD / S.MATSUDA

Drawn by/Dessiné par
A.DEEPWELL

PWGSC Project Manager/Administrateur de Projets TPSCG
A. TAHERI

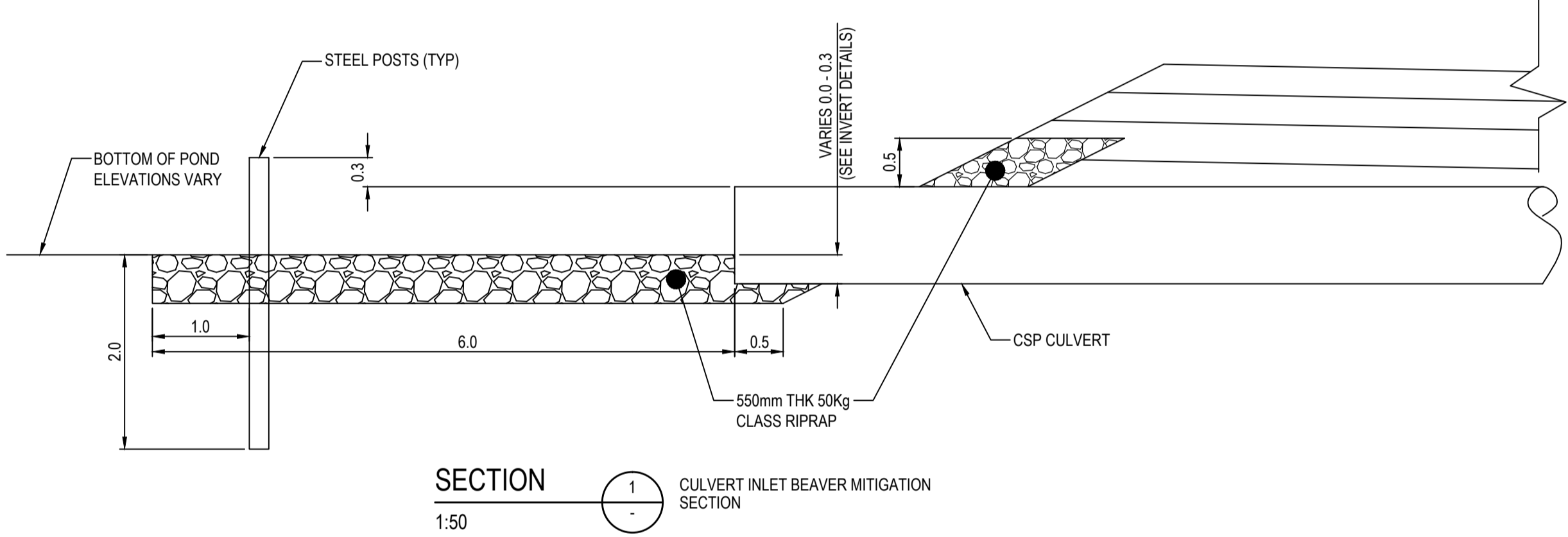
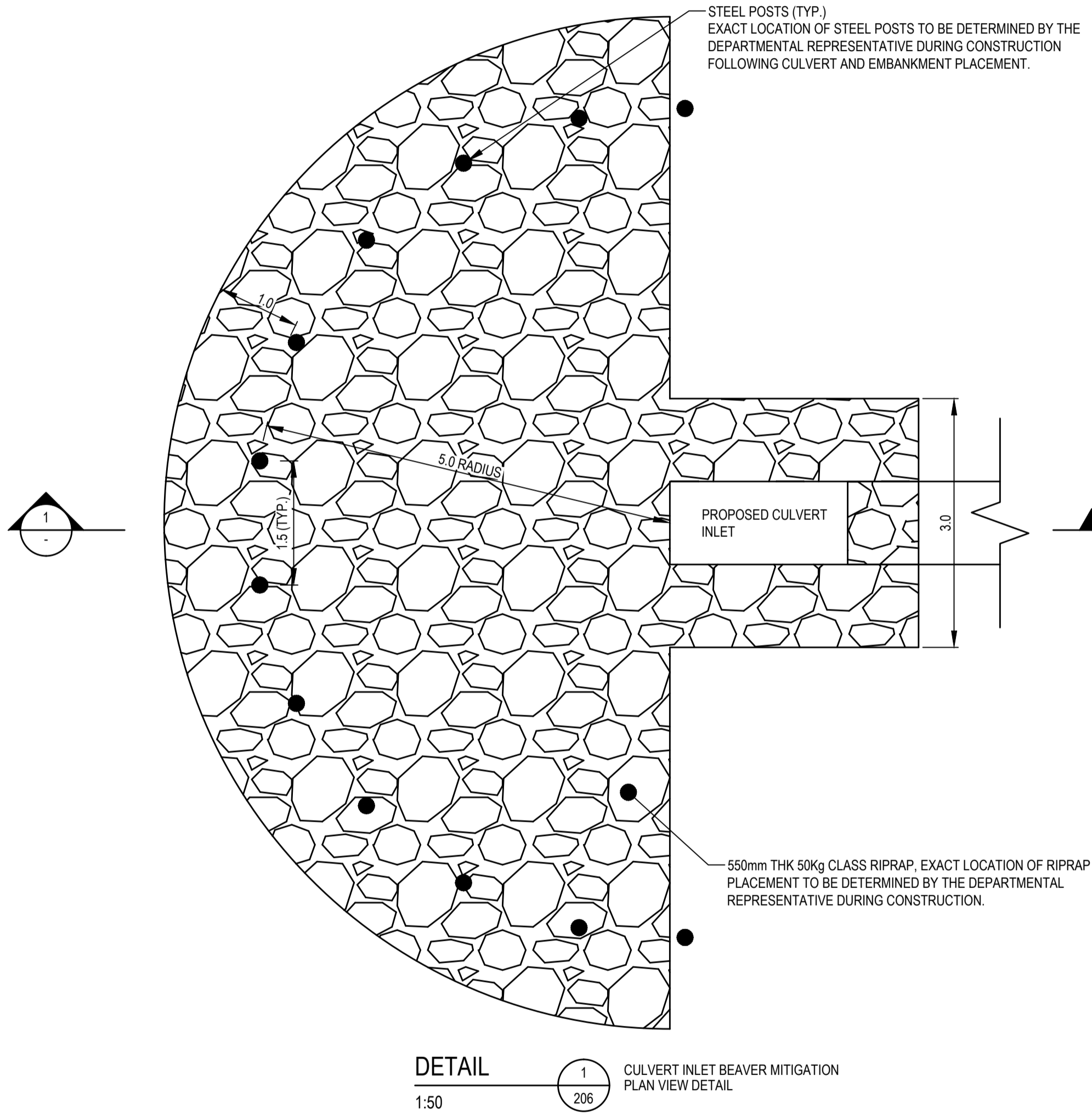
PWGSC Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'Ingénierie, TPSCG

Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin
BEAVER POND PLAN
742+200

Project No./No. du projet	Sheet/Feuille	Revision no./ Lo Révision no.
R.017173.701	C206	1

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ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
 - LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.



0 2 1:250 12m

0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client

**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**



Project title/Titre du projet

**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

Approved by/Approuvé par

G.WILKINS

Designed by/Concept par

A.HORWOOD / S.MATSUDA

Drawn by/Dessiné par

A.DEEPWELL

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

PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

BEAVER MITIGATION DETAILS

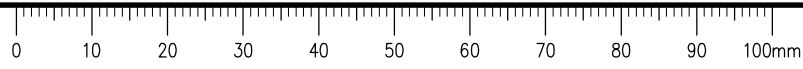
Project No./No. du
projet
R.017173.701

Sheet/Feuille
C207
C112

Revision no./
Lo Révision
no.
0




C:\temp\738-750C\01 - C111 RUN 11 PLAN PROFILE-SOUTH.dwg [C208] April 21, 2015 - 7:44:49 pm (BY: MATSUDA, STAN)



CULVERTS ASSOCIATED WITH THIS PROJECT													
UNIQUE CULVERT	PROPOSAL	INLET NORTHING	INLET EASTING	INLET INVERT	OUTLET NORTHING	OUTLET EASTING	OUTLET INVERT	LENGTH (M)	DIAMETER (MM)	MATERIAL	WALL THICKNESS (MM)	TYPE	NOTE
737+134	REMOVE							29.2	600	ALUMINIZED CSP	2.0	CIRC.	
737+136	NEW	6570911.762	329993.348	629.520	6570906.248	330029.411	629.010	36.5	600	ALUMINIZED CSP	2.0	CIRC.	
737+811	REMOVE							18.3	600	WOOD STAVE	-	-	
737+811	NEW	6571532.756	330257.779	620.520	6571526.966	330292.114	618.689	35.0	800	ALUMINIZED CSP	2.0	CIRC.	
738+677	REMOVE							16.4	700	WOOD STAVE	-	-	
738+695	NEW	6572408.680	330424.853	609.199	6572382.149	330444.477	608.013	33.0	1400	ALUMINIZED CSP	2.0	CIRC.	
739+209	REMOVE							17.5	900	CSP	-	-	
739+209	NEW	6572822.103	330717.152	603.238	6572795.865	330756.146	602.489	47.0	1200	ALUMINIZED CSP	2.0	CIRC.	
739+460	NEW	6572998.293	330887.573	602.890	6573011.337	330899.562	602.490	16.0	600	ALUMINIZED CSP	2.0	CIRC.	GRAVEL PIT ACCESS ROAD
740+553	NEW	6573869.088	331555.958	585.715	6573843.791	331593.796	585.487	45.52	3300	ALUMINIZED CSP	3.5	CIRC.	740+553 CULVERT INLET/OUTLET INV. SET
740+622	REMOVE							19.9	900	CSP	-	-	300MM BELOW THE BED OF THE STREAM
741+151	REMOVE							18.0	800	CSP	-	-	
741+151	NEW	6574390.634	331841.332	580.568	6574379.615	331868.157	580.151	29.0	800	ALUMINIZED CSP	2.0	CIRC.	
741+300	NEW	6574527.918	331897.537	579.534	6574519.196	331919.897	579.309	24.0	800	ALUMINIZED CSP	2.0	CIRC.	
741+307	REMOVE							16.6	900	CSP	-	-	
742+105	REMOVE							21.3	1200	CSP	-	-	
742+151	REMOVE							27.7	1200	CSP	-	-	
742+151	NEW	6575314.250	332178.566	570.193	6575305.172	332221.616	569.308	44.0	1000	ALUMINIZED CSP	2.0	CIRC.	
742+295	NEW	6575413.920	332218.175	569.466	6575478.111	332273.893	568.340	85.0	1200	ALUMINIZED CSP	2.0	CIRC.	742+295 CULVERT INLET/OUTLET INV. SET
742+451	NEW	6575584.636	332279.297	567.850	6575603.129	332317.018	567.740	42.0	800	ALUMINIZED CSP	2.0	CIRC.	300MM BELOW THE BED OF THE STREAM
742+473	REMOVE							18.2	900	CSP	-	-	
742+954	REMOVE							15.4	660	CSP	-	-	

SIGNS ASSOCIATED WITH THIS PROJECT				
SIGN TYPE	STATION	SIDE OF HWY	SIGN FACING DIRECTION	DESCRIPTION
W-49	736+600	RIGHT	NORTHBOUND	PAVEMENT ENDS
W-54 R	736+988	LEFT	SOUTHBOUND	RIGHT OBJECT MARKER
W-54 L	736+988	RIGHT	SOUTHBOUND	LEFT OBJECT MARKER
CUSTOM	737+000	LEFT	SOUTHBOUND	"RUISSEAU PROCHNIAK CREEK"
WC-23	737+130	LEFT	SOUTHBOUND	BRIDGE ICES
R-4X	737+200	RIGHT	NORTHBOUND	MAXIMUM 80 KM/H
W-51	737+260	LEFT	SOUTHBOUND	NARROW STRUCTURE
R-4X	737+390	LEFT	SOUTHBOUND	MAXIMUM 80KM/H
CUSTOM	737+450	RIGHT	NORTHBOUND	"50 KM/H WHEN PASSING EQUIPMENT
R-3X	737+520	LEFT	SOUTHBOUND	MAXIMUM 80KM/H AHEAD
G-104	739+563	RIGHT	NORTHBOUND / SOUTHBOUND	"KM 740"
W-42	741+200	RIGHT	NORTHBOUND	WATCH FOR ROCKS/DEBRIS ON ROAD
W-54 L	741+440	LEFT	NORTHBOUND	LEFT OBJECT MARKER
W-54 R	741+560	RIGHT	NORTHBOUND	RIGHT OBJECT MARKER
W-54 L	741+660	RIGHT	SOUTHBOUND	LEFT OBJECT MARKER
W-54 R	741+780	LEFT	SOUTHBOUND	RIGHT OBJECT MARKER
W-42	741+920	LEFT	SOUTHBOUND	WATCH FOR ROCKS/DEBRIS ON ROAD
W-26	743+020	RIGHT	NORTHBOUND	ROAD NARROWS
W-49	743+225	LEFT	SOUTHBOUND	PAVEMENT ENDS
R-4X	743+225	RIGHT	NORTHBOUND	MAXIMUM 80KM/H



Public Works and Government Services Canada

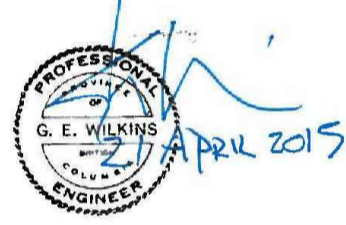
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

ISSUED FOR TENDER

GENERAL NOTES:

- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
- PROFILE DRAWN AT 10x VERTICAL EXAGGERATION
- LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.
- UNLESS NOTED OTHERWISE, ALL EXISTING SIGNS AND POSTS WITHIN THE LIMITS OF WORK SHALL BE REMOVED AND STOCKPILED IN A LOCATION DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
- SEE TABLE DRAWING C208 FOR CULVERT AND SIGN LAYOUT DETAILS.
- REFER TO GEOTECHNICAL DATA REPORT FOR BOREHOLE DETAILS.
- EXTENTS OF CUT SLOPE STABILIZATION MATERIAL AND SPECIALTY EMBANKMENT TO BE VERIFIED BY DEPARTMENTAL REPRESENTATIVE DURING CONSTRUCTION.




0101100050m

1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



Project title/Titre du projet

KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC

Approved by/Approuvé par
G.WILKINS

Designed by/Concepté par
A.HORWOOD / S. MATSUDA

Drawn by/Dessiné par
A.DEEPWELL

PWGSC Project Manager/Administrateur de Projets TPSGC
A. TAHERI

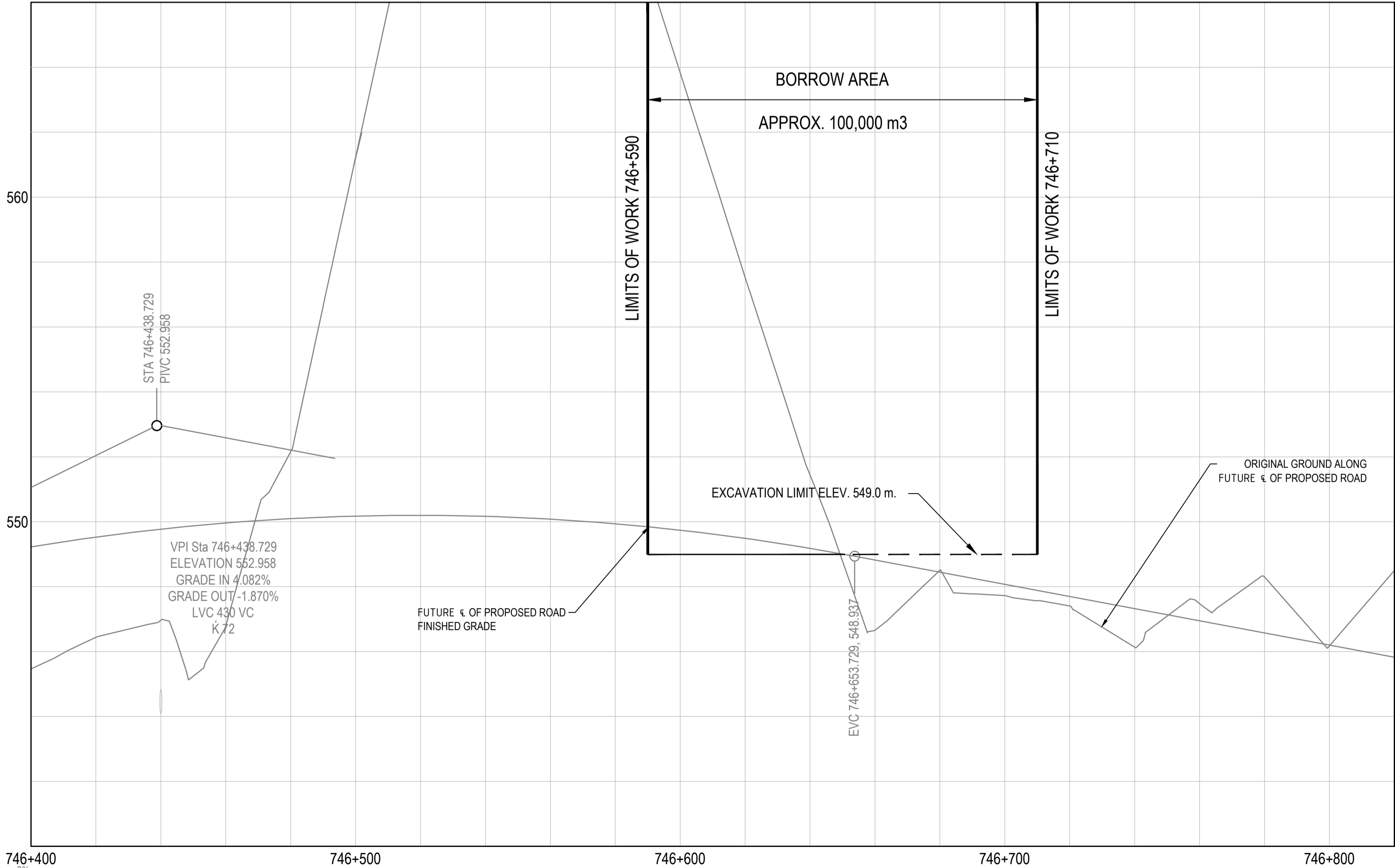
PWGSC, Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

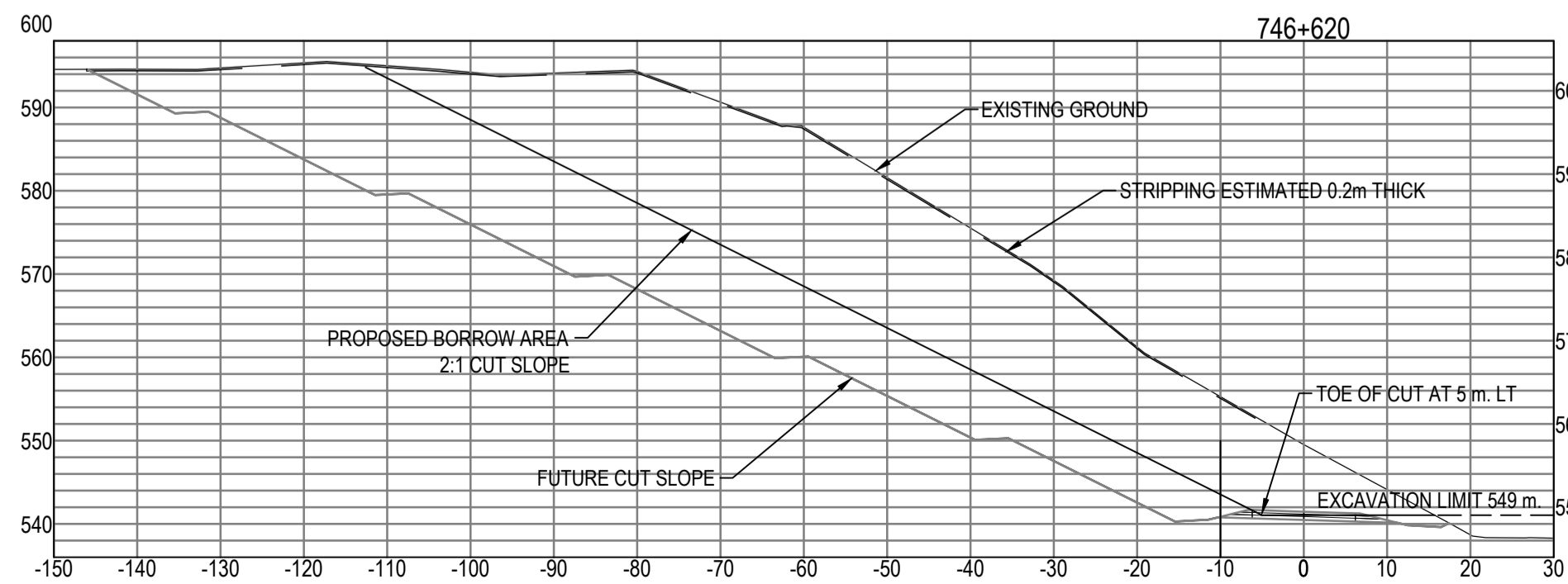
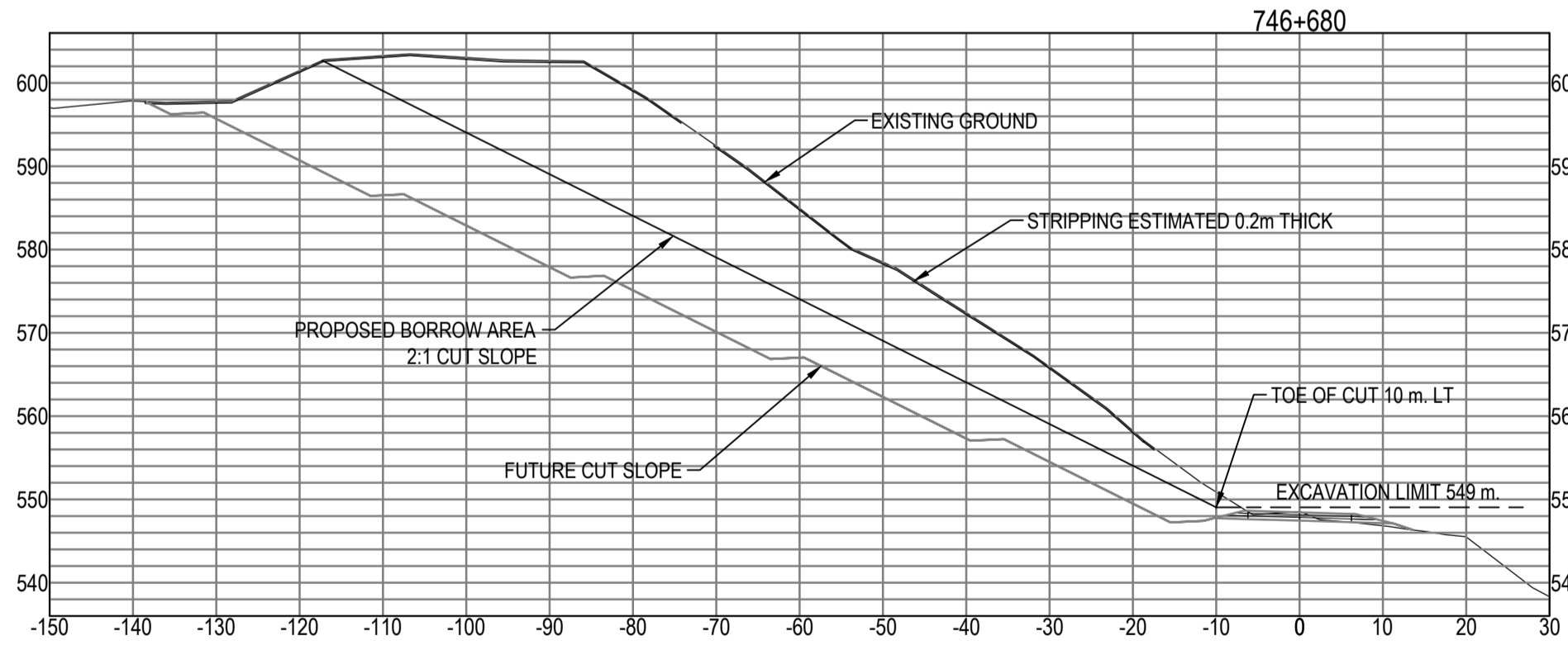
Drawing title/Titre du dessin
CULVERT AND SIGN DETAILS

Project No./No. du projet R.017173.701	Sheet/Feuille C208	Revision no./ La Révision no. 1
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Q:\Hastings\Transportation\331\03085 - Highway Design km 738-750\CADD\2014 04 25 Detail Design Report\C101 - C111 RUN 11 PLAN PROFILES-SOUTH.dwg [C209] April 20, 2015 - 12:27:19 pm (BY: MATSUDA, STAN)



CLEARING AND GRUBBING LAYOUT TABLE			
STATION	OFFSET	NORTHING	EASTING
746+590	125 LT	6579590.913	332713.795
746+590	38 RT	6579611.076	332875.542
746+660	4 RT	6579676.327	332834.790
746+710	CL	6579725.919	332827.675
746+710	125 LT	6579719.654	332702.852



ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
 - PROFILE DRAWN AT 10x VERTICAL EXAGGERATION.
 - LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.
 - REFER TO GEOTECHNICAL DATA REPORT FOR BOREHOLE DETAILS.

0	TENDER ADDENDUM No.1	15/04/20
Revision	Description/Description	Date/Date

Client/client

**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**



Project title/Titre du projet

**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

Approved by/Approuvé par

G. WILKINS

Designed by/Concepté par

A. HORWOOD / S. MATSUDA

Drawn by/Dessiné par

A. DEEPWELL

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

PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

**PLAN, PROFILE, AND XSECTIONS
BORROW AREA**

STA 746+590 TO 746+710

Project No./No. du projet

R.017173.701

Sheet/Feuille

C209

Revision no./
Lo Révision
no.

0

GENERAL NOTES:

1. DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
2. LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.

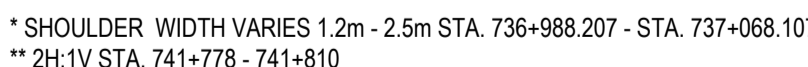
1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**



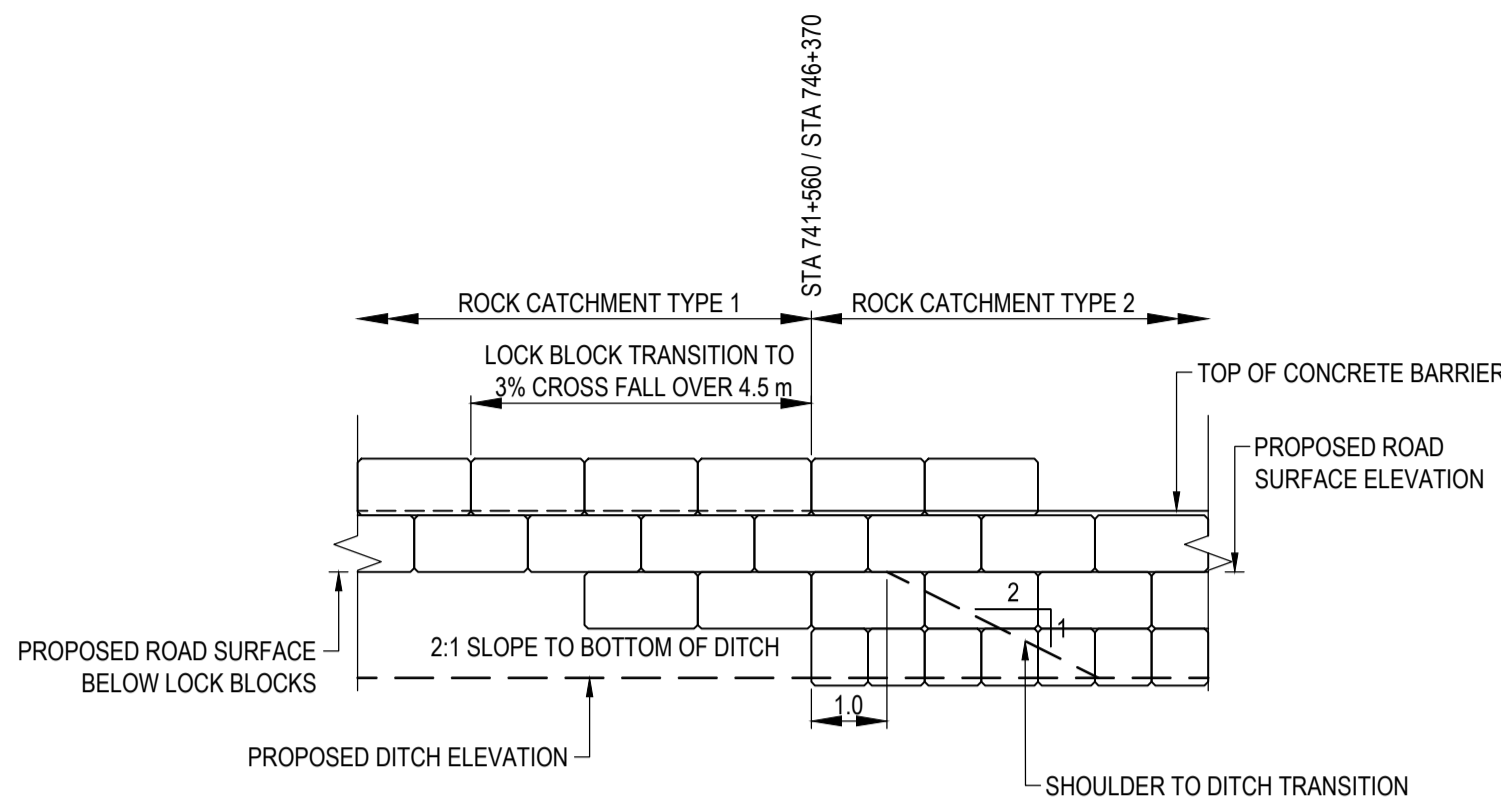
TYPICAL SECTIONS

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.017173.701	C301	1

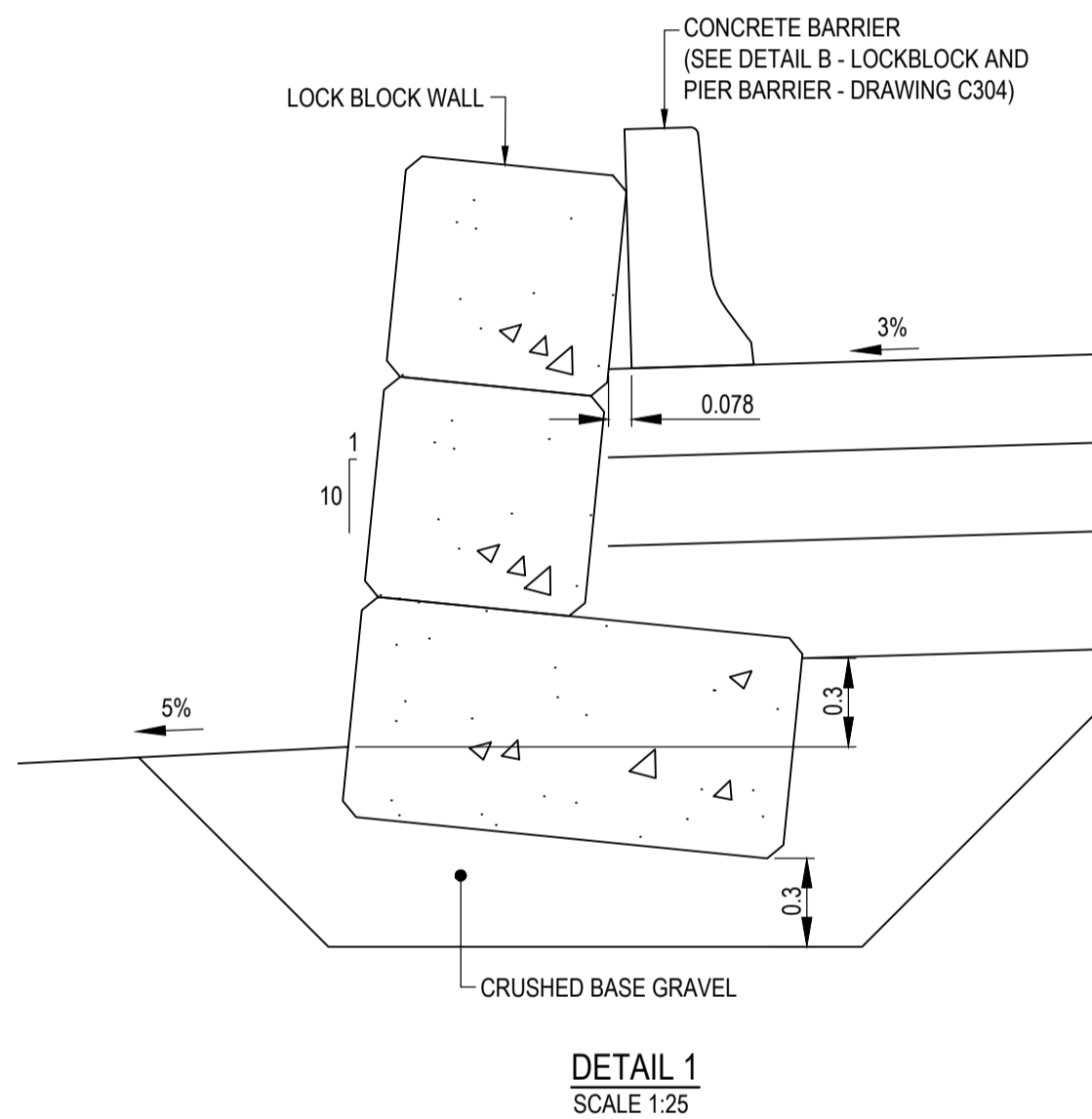


GENERAL NOTES:

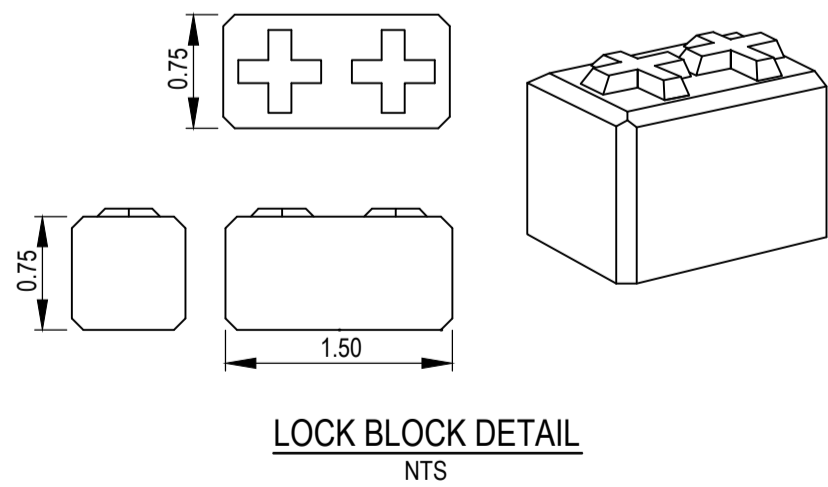
1. DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
2. LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.



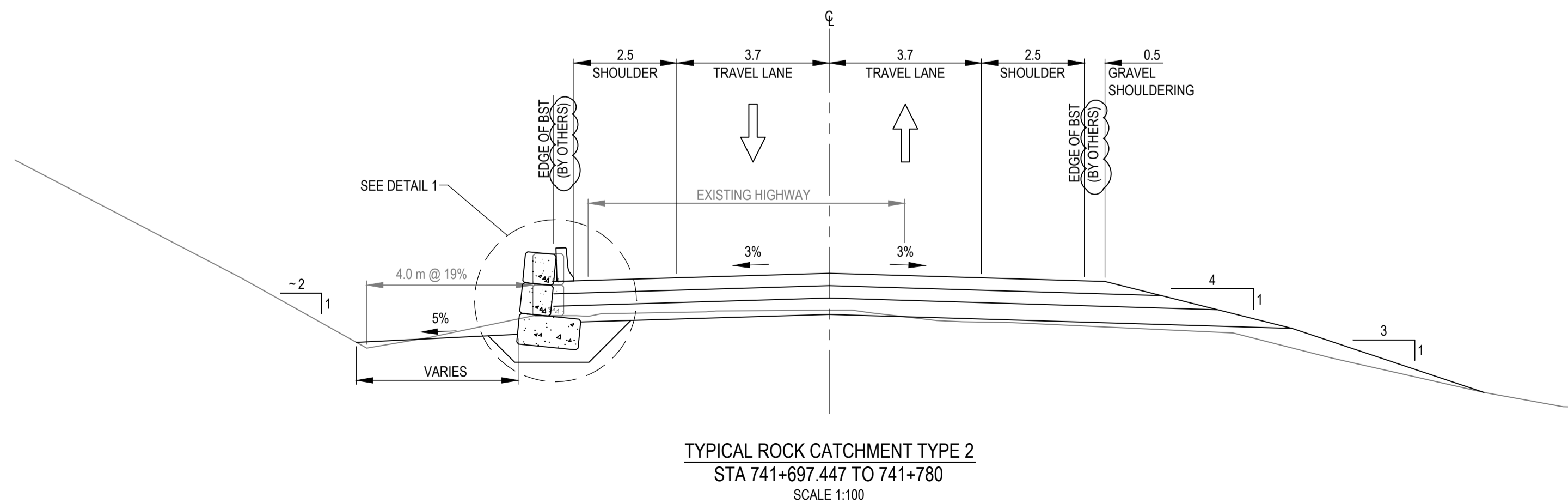
LOCK BLOCK PROFILE AT CATCHMENT TYPE 1 & 2 TRANSITION



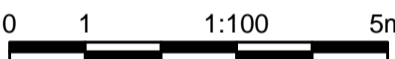
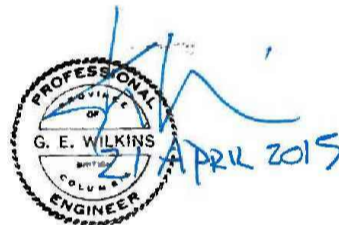
DETAIL 1
SCALE 1:25



LOCK BLOCK DETAIL
NTS



TYPICAL ROCK CATCHMENT TYPE 2
STA 741+697.447 TO 741+780
SCALE 1:100



1	TENDER ADDENDUM No.1	15/04/20
0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client

**PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA**



Project title/Titre du projet

**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

Approved by/Approuvé par _____

G. WILKINS

Designed by/Concept par

A. HORWOOD / S. MATSUDA

Drawn by/Dessine par
A.DEEPWELL

PWGSC Project Manager/Administrateur de Projets TPSGC
A. TAHERI

PWGSC, Architectural and Engineering Resources Manager
Ressources Architectural et de Directeur d'Ingénierie, TPS

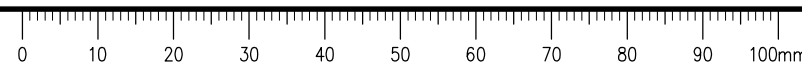
Client/client

PUBLIC WORKS GOVERNMENT SERVICES CANADA

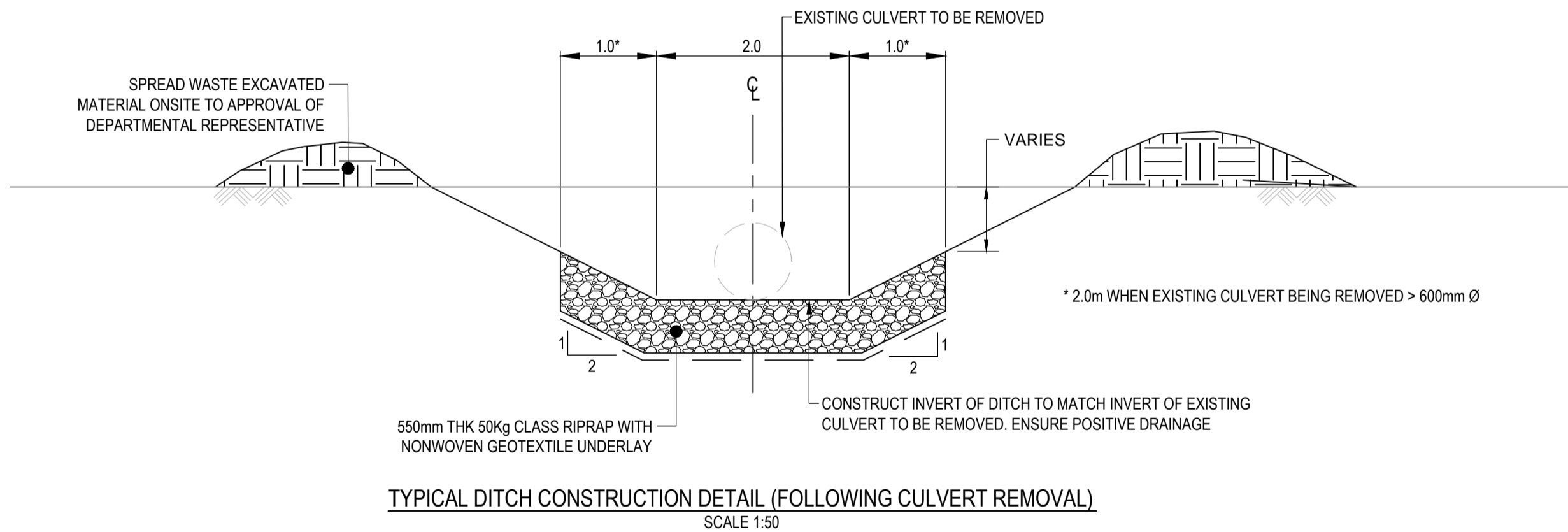
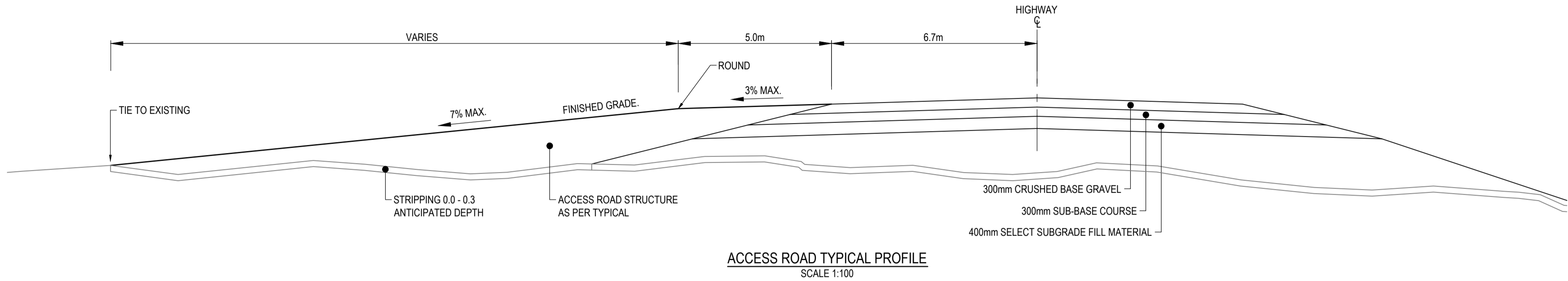
Drawing title/Titre du dessin

TYPICAL SECTIONS - ROCK CATCHMENT TYPE 1 & 2

Project No./No. du projet R.017173.701	Sheet/Feuille C302	Revision no./ La Révision no. 1
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C:\Hastings\Transportation\331\Projects\33103065 - Highway Design km 737-750\CADD\2014 04 25 Detail Design Report\C301 - C305 TYPICAL SECTIONS - SOUTH.dwg [C303] March 27, 2015 - 10:50:32 am (BY: HORWOOD, ANDREW)



ISSUED FOR TENDER

- GENERAL NOTES:
- DIMENSIONS, COORDINATES, ELEVATIONS ARE SHOWN IN METRES UNLESS NOTED.
 - LOCATION OF FIBRE OPTIC CABLE SUPPLIED BY NORTHWESTEL AS OF OCT. 2013 AND IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION PRIOR TO CONSTRUCTION.



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0	ORIGINAL TENDER SUBMISSION	15/03/27
Revision	Description/Description	Date/Date

Client/client

PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA



Project title/Titre du projet

KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC

Approved by/Approuvé par
G.WILKINS

Designed by/Conçue par
A.HORWOOD / S.MATSUDA

Drawn by/Dessiné par
A.DEEPWELL

PWGSC Project Manager/Administrateur de Projets TPSGC
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PWGSC Architectural and Engineering Resources Manager/
Ressources Architectural et de Directeur d'ingénierie, TPSGC

Client/client

PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

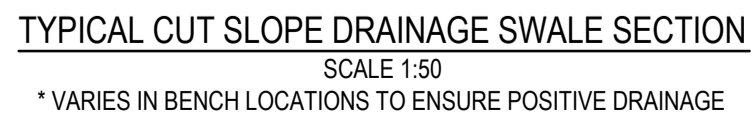
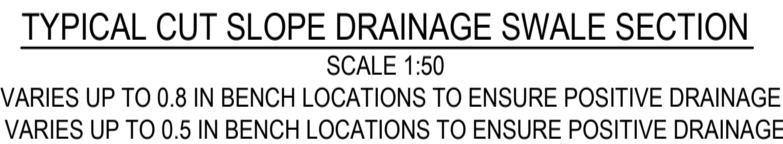
TYPICAL ACCESS ROAD PROFILE
AND DITCH CONSTRUCTION
TYPICAL SECTIONS

Project No./No. du
projet
R.017173.701

Sheet/Feuille
C303
C112

Revision no./
La Revision
no.
0



Client/client

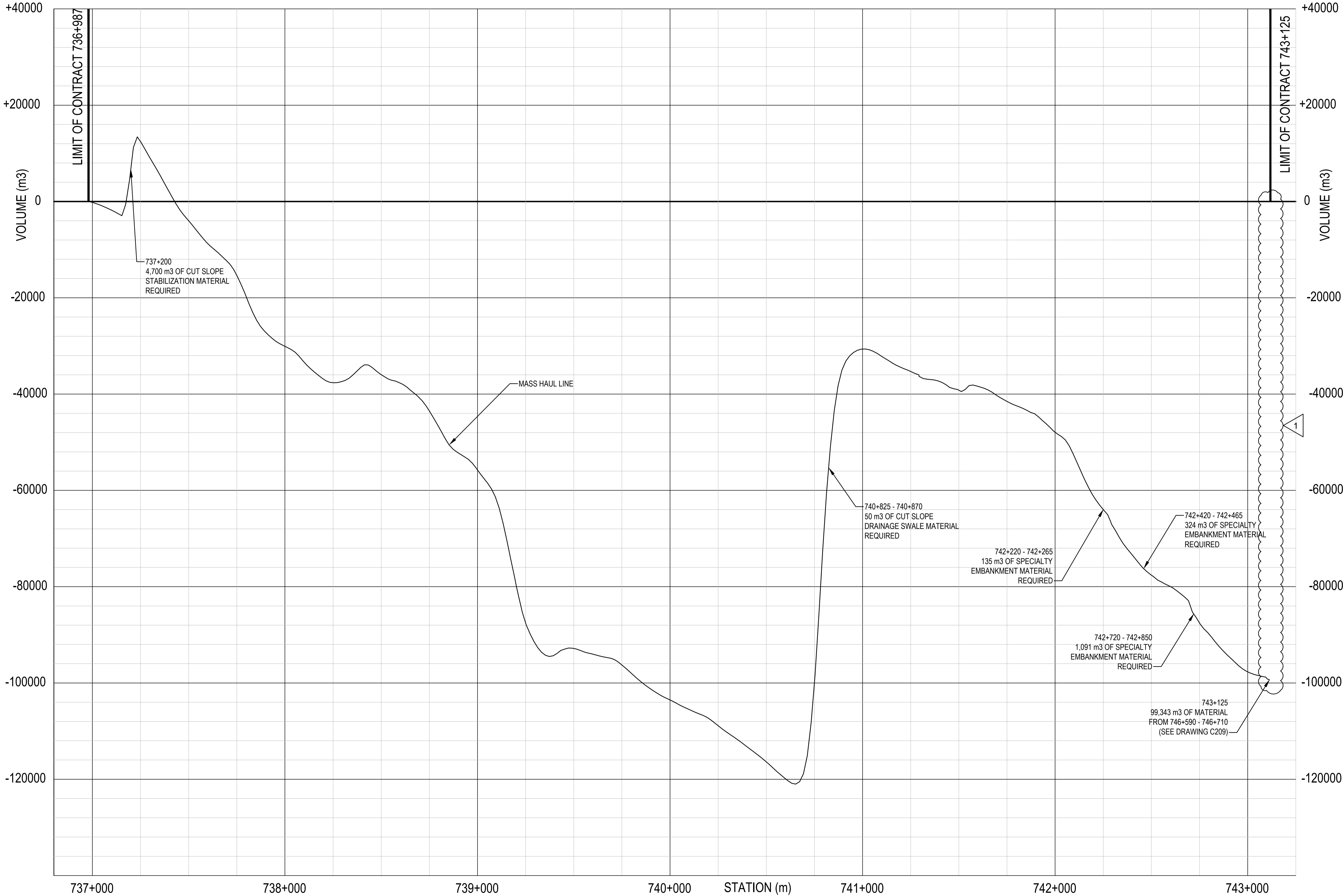
Project title/Titre du projet

Drawing title/Titre du dessin

Revision no./
La Révision
no.
1



\\l\local\at\at\Legacy\Hastings\Transportation\331\Projects\33103085 - Highway Design\km 738-750\CAD\2014\14 25 Detail Design Report\C401 - MASS HAUL.dwg [C401] April 24, 2015 - 8:45:31 am (BY: MATSUDA, STAN)



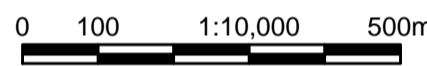
NEAT LINE QUANTITIES (EXCLUDES SHRINKAGE / SWELL)

1) EMBANKMENT	110,000 m3
2) EXCAVATION	154,500 m3
3) CRUSHED BASE GRAVEL	27,600 m3
4) SUB-BASE COURSE	32,000 m3
5) SELECT SUBGRADE FILL MATERIAL	49,800 m3
6) SPECIALTY EMBANKMENT MATERIAL	1,550 m3
7) CUT SLOPE STABILIZATION MATERIAL	4,700 m3
8) CUT SLOPE DRAINAGE MATERIAL	50 m3
9) EXCAVATION (STA 746+590 - 746+710)	99,350 m3

ISSUED FOR TENDER

GENERAL NOTES:
THE MASS HAUL LINE REPRESENTS THE FOLLOWING NEAT LINE CONSTRUCTED MATERIAL QUANTITIES (PLACED AND COMPACTED) WITH THE PLACED QUANTITIES INCREASED BY 15% TO ACCOUNT FOR SHRINKAGE WHEN COMPACTED:
- EMBANKMENT
- GRAVELS: CRUSHED BASE GRAVEL
- SUB-BASE COURSE, SELECT SUBGRADE FILL MATERIALS
- SPECIALTY EMBANKMENT
- CUT SLOPE STABILIZATION MATERIAL

1. QUANTITIES SHOWN SHALL BE FOR INFORMATION ONLY AND NOT FOR PAYMENT.



1	TENDER ADDENDUM No.2	15/04/24
0	TENDER ADDENDUM No.1	15/04/20
Revision	Description/Description	Date/Date

Client/client
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA



Project title/Titre du projet
**KM 737 - 743.1
HIGHWAY REALIGNMENT
ALASKA HIGHWAY, BC**

Approved by/Approuvé par
G.WILKINS
Designed by/Concept par
A.HORWOOD / S.MATSUDA
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Ressources Architectural et de Directeur d'ingénierie, TPSCG
Client/client
PUBLIC WORKS GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin
**MASS HAUL DIAGRAM
(FOR INFORMATION ONLY)**

Project No./No. du projet R.017173.701	Sheet/Feuille C401	Revision no./ Lo Révision no. 1
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