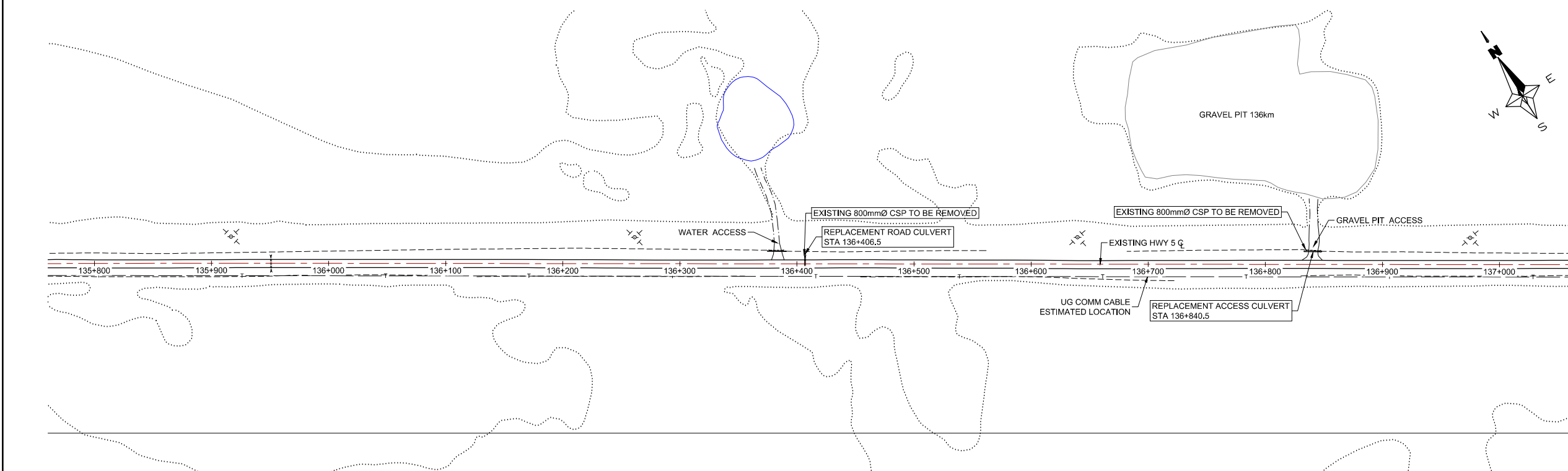


LOCATION PLAN
NOT TO SCALE

DRAWING INDEX	
SHEET No.	SHEET TITLE
001	LOCATION PLAN & DRAWING INDEX
101	PLAN-PROFILE - STA 136+000 - 137+060
102	PLAN-PROFILE - STA 137+060 - 138+360
103	PLAN-PROFILE - STA 138+360 - 139+660
104	PLAN-PROFILE - STA 139+660 - 140+960
105	PLAN-PROFILE - STA 140+960 - 142+260
106	PLAN-PROFILE - STA 142+260 - 143+560
107	PLAN-PROFILE - STA 143+560 - 144+860
108	PLAN-PROFILE - STA 144+860 - 146+160
109	PLAN-PROFILE - STA 146+160 - 147+460
110	PLAN-PROFILE - STA 147+460 - 148+760
111	PLAN-PROFILE - STA 148+760 - 150+060
112	PLAN-PROFILE - STA 150+060 - 151+360
113	PLAN-PROFILE - STA 151+360 - 152+660
114	PLAN-PROFILE - STA 152+660 - 153+960
115	PLAN-PROFILE - STA 153+960 - 155+260
116	PLAN-PROFILE - STA 155+260 - 156+560
117	PLAN-PROFILE - STA 156+560 - 157+860
118	PLAN-PROFILE - STA 157+860 - 159+160
119	PLAN-PROFILE - STA 159+160 - 160+460
120	PLAN-PROFILE - STA 160+460 - 161+760
121	PLAN-PROFILE - STA 161+760 - 163+060
122	PLAN-PROFILE - STA 163+060 - 164+360
123	PLAN-PROFILE - STA 164+360 - 165+660
124	PLAN-PROFILE - STA 165+660 - 166+960
125	PLAN-PROFILE - STA 166+960 - 168+260
126	PLAN-PROFILE - STA 168+260 - 169+560
127	PLAN-PROFILE - STA 169+560 - 169+627
201	CULVERT - CROSS SECTIONS
202	CULVERT - CROSS SECTIONS
301	DITCHING CROSS SECTIONS
302	DITCHING CROSS SECTIONS
303	DITCHING CROSS SECTIONS
304	DITCHING CROSS SECTIONS
305	DITCHING CROSS SECTIONS
401	TYPICAL SECTIONS
501	PIT DEVELOPMENT PLAN

INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES IS COMPILED FROM SOME RECORD DRAWINGS AND SOME SURVEYS, AND MAY NOT BE COMPLETE OR FULLY ACCURATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AND ADVISE THE DEPARTMENTAL REPRESENTATIVE OF ANY POTENTIAL CONFLICTS.

1	17-01-20	ISSUED FOR TENDER	CH	HW			
0	17-01-12	ISSUED FOR REVIEW	CH	HW			
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé			
Revision / Revision							
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur					
		Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada					
Client Services Team Southern Alberta Operations Branch		Le Client Entretien l'Équipe Alberta Méridional Branche d'Opérations					
Client/client		Parks Canada Agency L'Agence Parcs Canada					
		Western and Northern Region Ouest et Nord du Canada					
Project title/Titre du projet							
HIGHWAY 5 ROAD REHABILITATION PHASE 2 – SEGMENT 2							
WOOD BUFFALO NATIONAL PARK							
Drawing title/Titre du dessin							
LOCATION PLAN & DRAWING INDEX							
Surveyed by/Arpenté par		Drawn by/Dessiné par WSP CANADA INC.		Date/Date 2017-01-20			
Designed by/Concept par WSP CANADA INC.		Reviewed by/Revisé par		Scale/Échelle NTS			
PWGSC Project Manager/Administrateur de Projets TPSGC							
Client Acceptance/Acceptation du client			Approved by/Approuvé par				
Park Responsible Officer/Agent Responsable			PWGSC Project Manager/Administrateur de Projets TPSGC				
Project No./No. du projet 161-11147-01		Asset No./No. du-bien		Sheet No./ No. de la feuille 001			
Drawing Reference No./No. de référence du dessin							



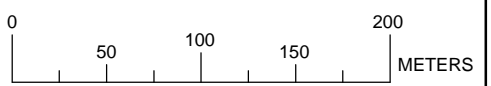
LEGEND	
EXISTING	
SHOULDER OF HIGHWAY	---
SHOULDER OF GRAVEL ROAD	- - - -
DITCH LINE	----
TREE LINE
WATER	~~~~~
ROAD CULVERT	=====
ACCESS CULVERT INLET/OUTLET	>
TOWER LOCATION	+
ANCHOR LOCATION	+
DITCHING REQUIRED	XXXXX

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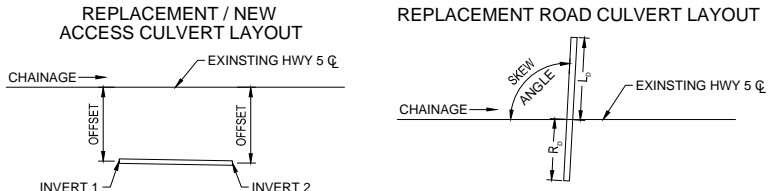
1	17-01-20	ISSUED FOR TENDER	CH	HW
0	17-01-12	ISSUED FOR REVIEW	CH	HW

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision

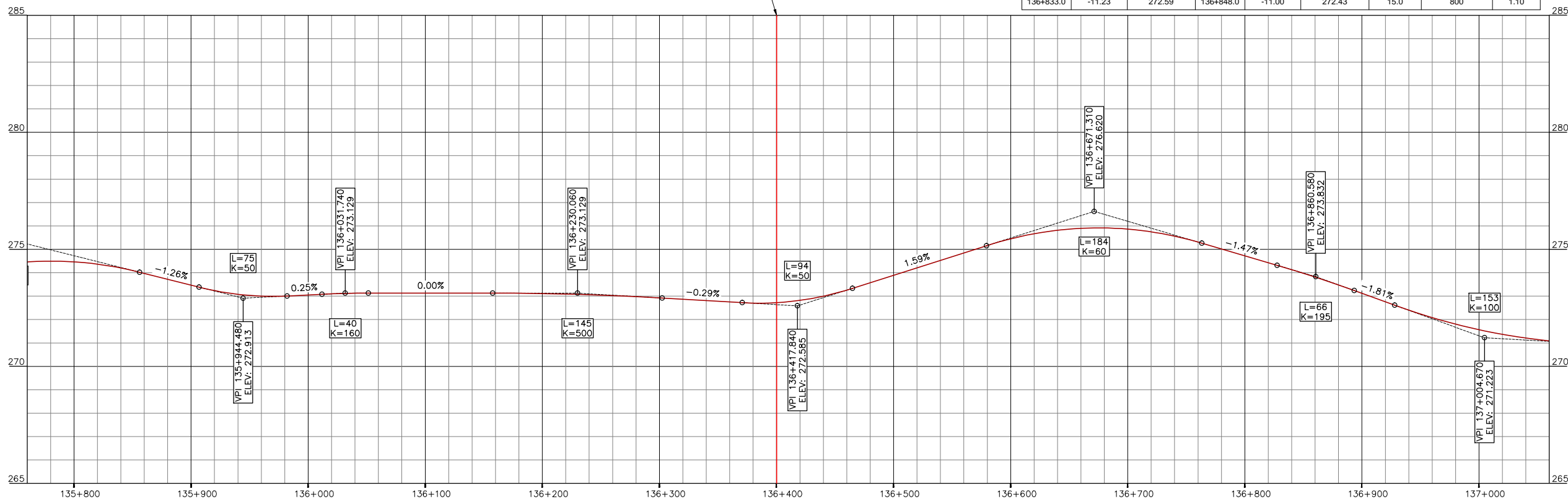


SURVEY CONTROL POINTS (UTM12)			
POINT NUMBER	NORTHING	EASTING	ELEVATION
586	6683196.157	337465.116	274.652



REPLACEMENT ROAD CULVERT TABLE								
STATION @ C	SKEW ANGLE	L _o (m)	R _o (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
136+406.5	90.7°	7.93	8.07	16.0	800	-0.31	271.20	271.15

REPLACEMENT / NEW ACCESS CULVERT TABLE							
INVERT 1				INVERT 2			
STATION	OFFSET (m)	ELEVATION (m)		STATION	OFFSET (m)	ELEVATION (m)	
136+833.0	-11.23	272.59		136+848.0	-11.00	272.43	
				LENGTH (m)		DIAMETER (mm)	SLOPE (%)
				15.0		800	1.10



Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Client Services Team
Southern Alberta Operations Branch

Le Client Entretien l'Équipe Alberta Méridional Branche d'Opérations

Client/client

Parks Canada Agency

L'Agence Parcs Canada

Western and Northern Region

Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

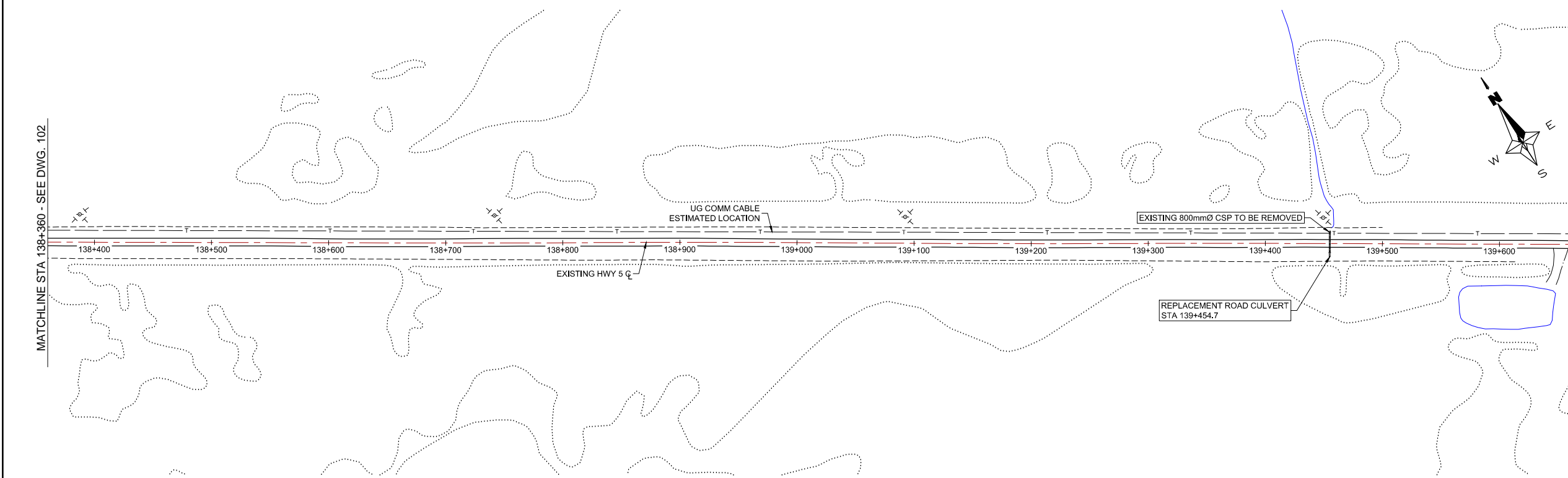
WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

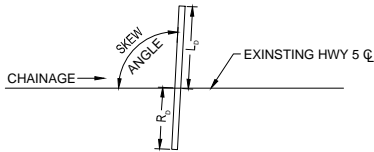
PLAN—PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
WSP CANADA INC.	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
WSP CANADA INC.		1:2000

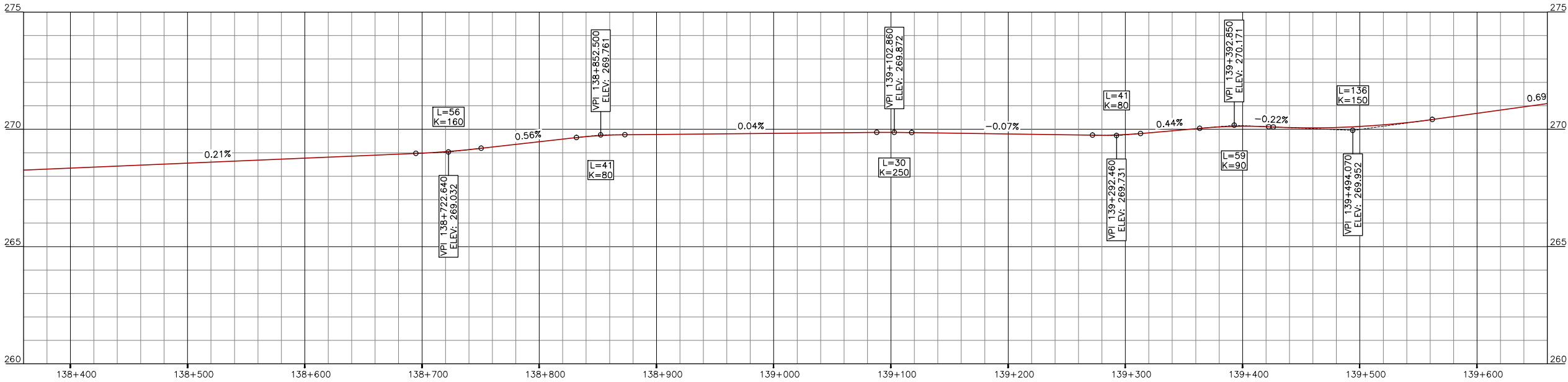
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
161-11147-01		101
Drawing Reference No./No. de référence du dessin		



REPLACEMENT ROAD CULVERT LAYOUT



REPLACEMENT ROAD CULVERT TABLE								
STATION @ C	SKEW ANGLE	L _s (m)	R _s (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
139+454.7	90.2°	11.27	10.73	22.0	800	0.68	267.40	267.55



LEGEND

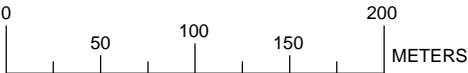
- EXISTING
- SHOULDER OF HIGHWAY
 - SHOULDER OF GRAVEL ROAD
 - DITCH LINE
 - TREE LINE
 - WATER
 - ROAD CULVERT
 - ACCESS CULVERT INLET/OUTLET
 - TOWER LOCATION
 - ANCHOR LOCATION
 - DITCHING REQUIRED

INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES IS COMPILED FROM SOME RECORD DRAWINGS AND SOME SURVEYS, AND MAY NOT BE COMPLETE OR FULLY ACCURATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AND ADVISE THE DEPARTMENTAL REPRESENTATIVE OF ANY POTENTIAL CONFLICTS.

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision



Consultant's Name
Nom de l'expert-conseil



Eng. Stamp
Sceau de l'ingénieur

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

Client Services Team
Southern Alberta Operations Branch
Le Client Entretien l'Équipe Alberta Méridional Branche d'Opérations

Canada

Client/client
Parks Canada Agency
L'Agence Parcs Canada

Western and Northern Region
Ouest et Nord du Canada

Project title/Titre du projet
HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

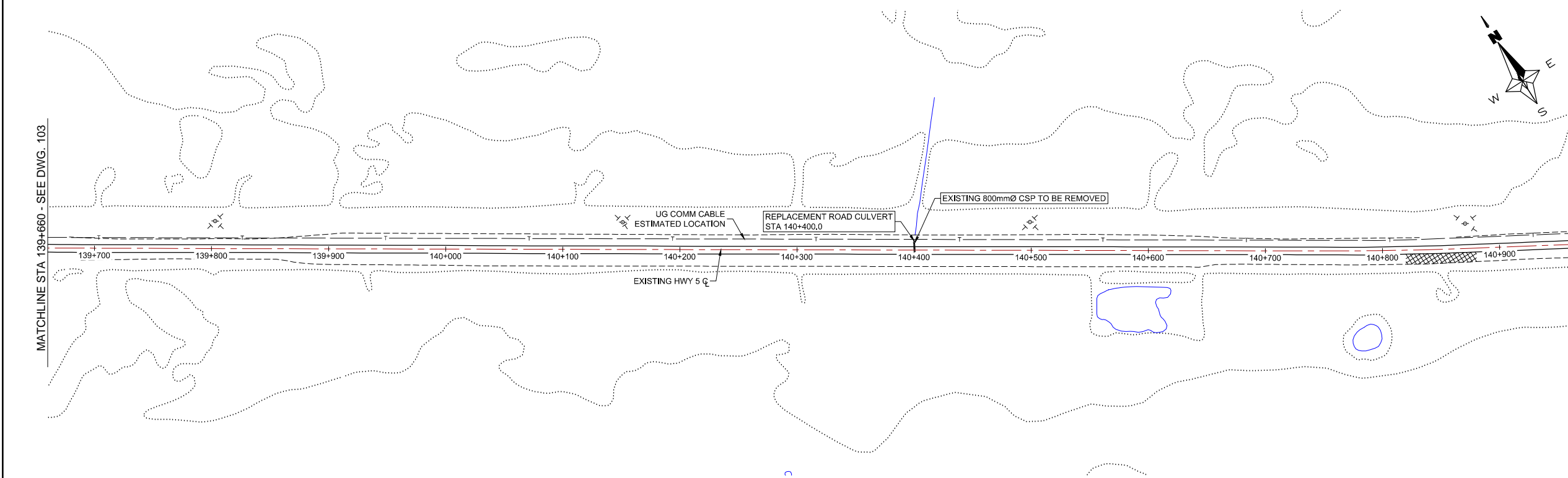
Drawing title/Titre du dessin
PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
WSP CANADA INC.	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

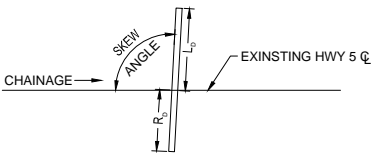
Client Acceptance/Acceptation du client	Approved by/Approuvé par
Park Responsible Officer/Agent Responsable	PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
161-11147-01		103
Drawing Reference No./No. de référence du dessin		

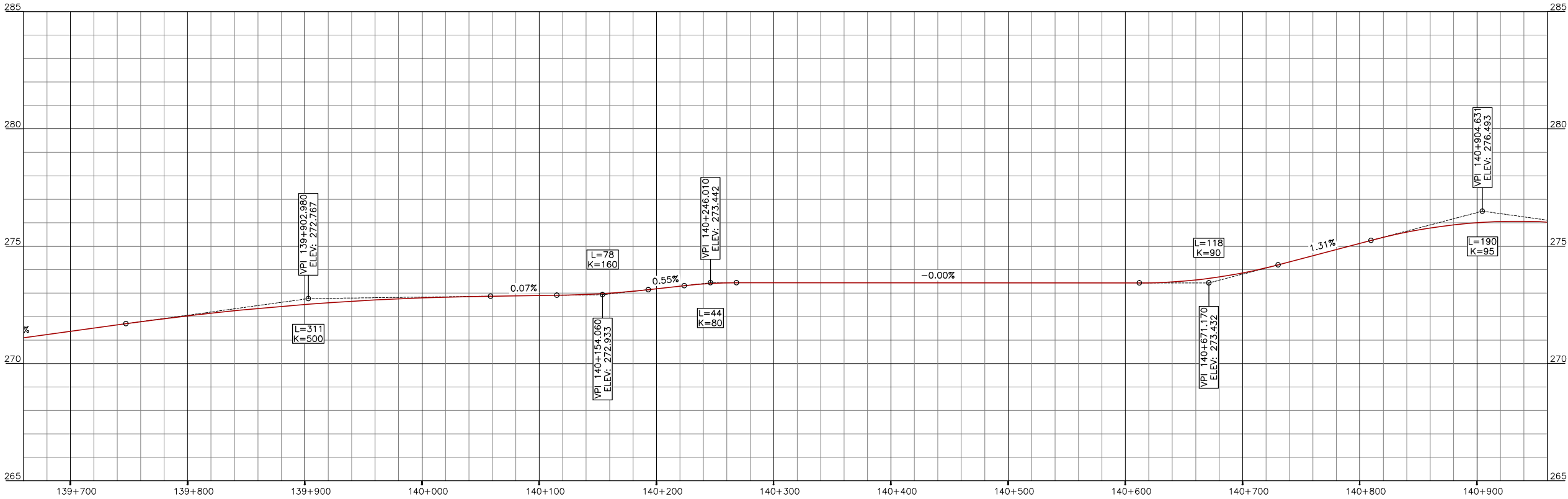


SURVEY CONTROL POINTS (UTM12)			
POINT NUMBER	NORTHING	EASTING	ELEVATION
584	6680473.346	341816.663	275.505

REPLACEMENT ROAD CULVERT LAYOUT



REPLACEMENT ROAD CULVERT TABLE								
STATION @ CL	SKEW ANGLE	L _s (m)	R _s (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
140+400.0	87.5°	8.34	7.64	16.0	800	1.38	271.78	272.00



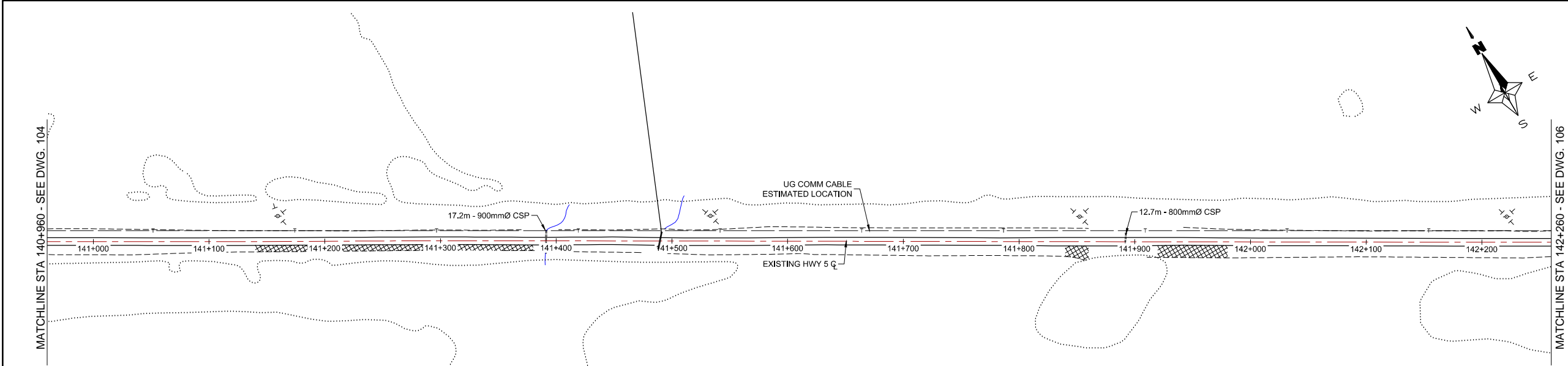
LEGEND

EXISTING

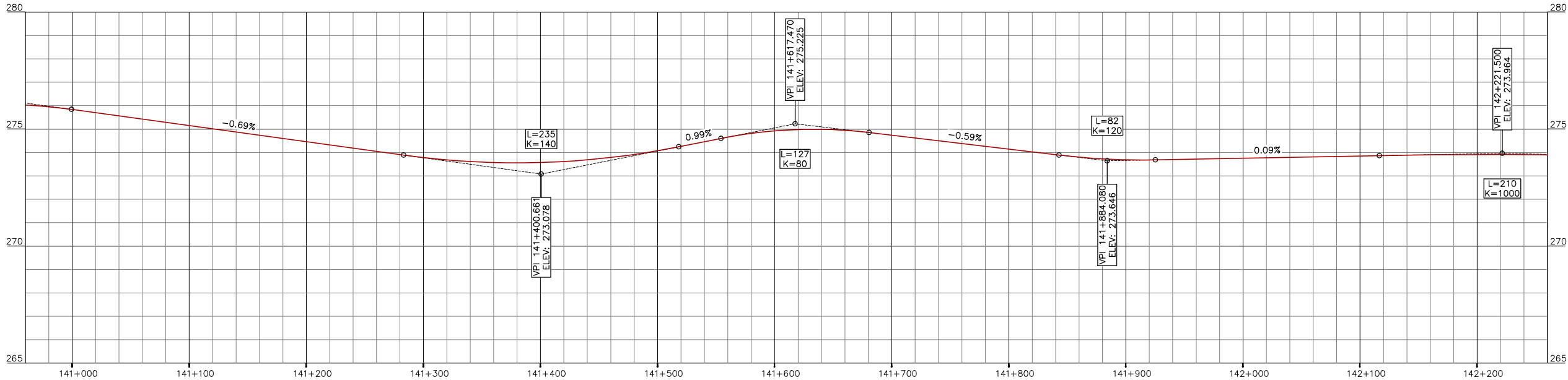
- SHOULDER OF HIGHWAY
- SHOULDER OF GRAVEL ROAD
- DITCH LINE
- TREE LINE
- WATER
- ROAD CULVERT
- ACCESS CULVERT INLET/OUTLET
- TOWER LOCATION
- ANCHOR LOCATION
- DITCHING REQUIRED

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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé		
Revision / Revision						
0 50 100 150 200 METERS						
Consultant's Name Nom de l'expert-conseil			Eng. Stamp Sceau de l'ingénieur			
			Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada			
Client Services Team Southern Alberta Operations Branch			Le Client Entretien l'Équipe Alberta Méridional Branche d'Opérations			
Client/client			Parks Canada Agency L'Agence Parcs Canada			
			Western and Northern Region Ouest et Nord du Canada			
Project title/Titre du projet						
HIGHWAY 5 ROAD REHABILITATION PHASE 2 – SEGMENT 2						
WOOD BUFFALO NATIONAL PARK						
Drawing title/Titre du dessin						
PLAN–PROFILE						
Surveyed by/Arpenté par		Drawn by/Dessiné par		Date/Date		
		WSP CANADA INC.		2017-01-20		
Designed by/Concept par		Reviewed by/Revisé par		Scale/Échelle		
WSP CANADA INC.				1:2000		
PWGSC Project Manager/Administrateur de Projets TPSGC						
Client Acceptance/Acceptation du client			Approved by/Approuvé par			
Park Responsible Officer/Agent Responsable			PWGSC Project Manager/Administrateur de Projets TPSGC			
Project No./No. du projet		Asset No./No. du-bien		Sheet No./No. de la feuille		
161-11147-01				104		
Drawing Reference No./No. de référence du dessin						



ROAD CULVERT EXTENSION TABLE					
STATION @ CL	SIDE TO EXTEND	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	INVERT (m)
141+390.8	RIGHT	3.0	900	0.01	271.21



LEGEND

EXISTING

- SHOULDER OF HIGHWAY
- SHOULDER OF GRAVEL ROAD
- DITCH LINE
- TREE LINE
- WATER
- ROAD CULVERT
- ACCESS CULVERT INLET/OUTLET
- TOWER LOCATION
- ANCHOR LOCATION
- DITCHING REQUIRED


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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

050100150200METERS

Consultant's Name
Nom de l'expert-conseil



Eng. Stamp
Sceau de l'ingénieur

Public Works and
Government Services
Canada


Travaux publics et
Services gouvernementaux
Canada

Client Services Team
Southern Alberta
Operations Branch

Le Client Entretien l'Équipe
Alberta Méridional
Branche d'Opérations

Canada

Client/client

Parks Canada
Agency

L'Agence Parcs
Canada

Western and
Northern Region

Ouest et Nord
du Canada

Project title/Titre du projet

HIGHWAY 5 ROAD REHABILITATION PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
<div>Park Responsible Officer/Agent Responsable</div>	<div>PWGSC Project Manager/Administrateur de Projets TPSGC</div>

Project No./No. du projet	Asset No./No. du-bien	Sheet No./ No. de la feuille
161-11147-01		105

Drawing Reference No./No. de référence du dessin

MATCHLINE STA 143+560 - SEE DWG. 106

MATCHLINE STA 144+860 - SEE DWG. 108

FISH BEARING STREAM
- ALL APPLICABLE PERMITS AND APPROVALS REQUIRED BEFORE
CONSTRUCTION AND FINALIZATION OF THE DESIGN CAN PROCEED.

EXISTING 900mmØ CSP TO BE REMOVED

REPLACEMENT ROAD CULVERT
STA 144+154.0

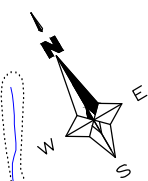
NEW ACCESS CULVERT
STA 144+395.6

WATER ACCESS

EXISTING HWY 5

UG COMM CABLE
ESTIMATED LOCATION

16.1m - 900mmØ CSP



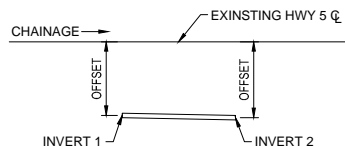
ROAD CULVERT EXTENSION TABLE

STATION @ C/L	SIDE TO EXTEND	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	INVERT (m)
144+790.9	RIGHT	5.0	900	-0.59	273.35

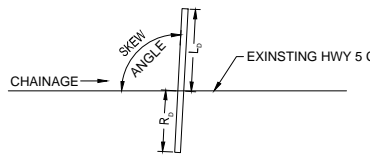
SURVEY CONTROL POINTS (UTM12)

POINT NUMBER	NORTHING	EASTING	ELEVATION
84	6679122.963	344104.711	273.767

REPLACEMENT / NEW
ACCESS CULVERT LAYOUT



REPLACEMENT ROAD CULVERT LAYOUT

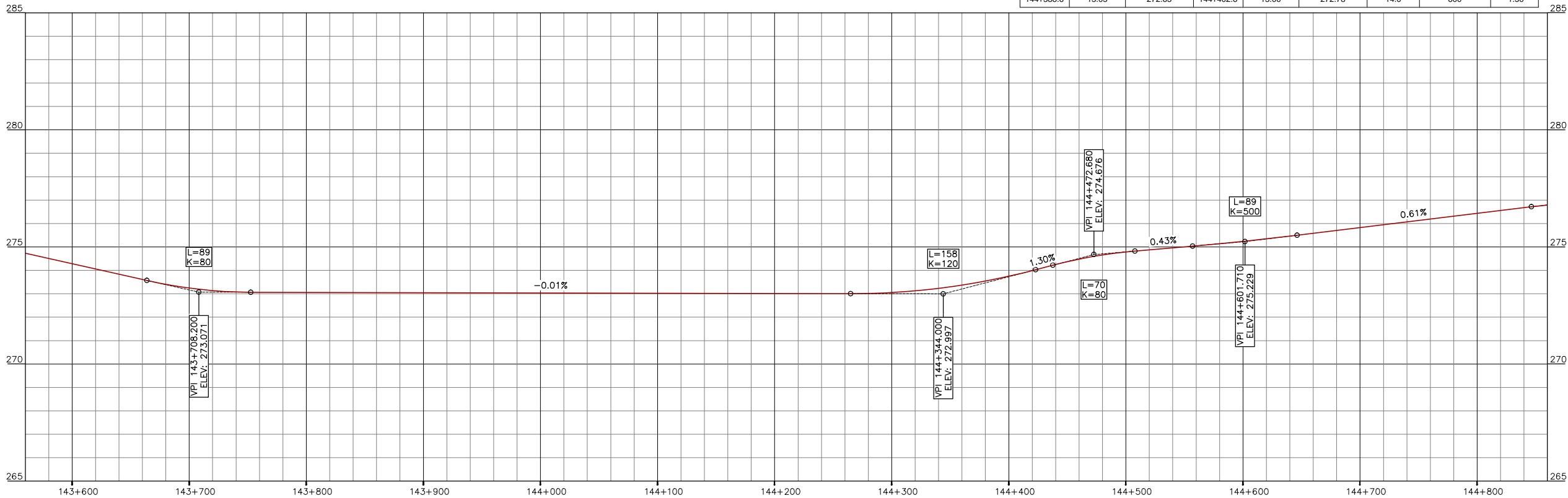


REPLACEMENT ROAD CULVERT TABLE

STATION @ C/L	SKEW ANGLE	L _s (m)	R _s (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
144+154.0	90.3°	9.15	8.85	18.0	900	0.65	270.97	271.09

REPLACEMENT / NEW ACCESS CULVERT TABLE

INVERT 1			INVERT 2			LENGTH (m)	DIAMETER (mm)	SLOPE (%)
STATION	OFFSET (m)	ELEVATION (m)	STATION	OFFSET (m)	ELEVATION (m)			
144+388.6	13.05	272.65	144+402.6	13.00	272.78	14.0	600	-1.50



LEGEND

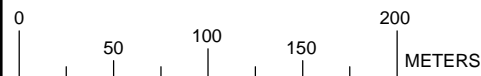
EXISTING

---	SHOULDER OF HIGHWAY
---	SHOULDER OF GRAVEL ROAD
---	DITCH LINE
---	TREE LINE
---	WATER
=====	ROAD CULVERT
>	ACCESS CULVERT INLET/OUTLET
+	TOWER LOCATION
+	ANCHOR LOCATION
XXXXXX	DITCHING REQUIRED

INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES IS COMPILED FROM SOME RECORD DRAWINGS AND SOME SURVEYS, AND MAY NOT BE COMPLETE OR FULLY ACCURATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AND ADVISE THE DEPARTMENTAL REPRESENTATIVE OF ANY POTENTIAL CONFLICTS.

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
1	17-01-20	ISSUED FOR TENDER	CH	HW
0	17-01-12	ISSUED FOR REVIEW	CH	HW

Revision / Revision



Consultant's Name
Nom de l'expert-conseil



Eng. Stamp
Sceau de l'ingénieur



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

Client Services Team
Southern Alberta
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Alberta Méridional
Branche d'Opérations

Canada

Client/client



Parks Canada
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L'Agence Parcs
Canada

Western and
Northern Region

Ouest et Nord
du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

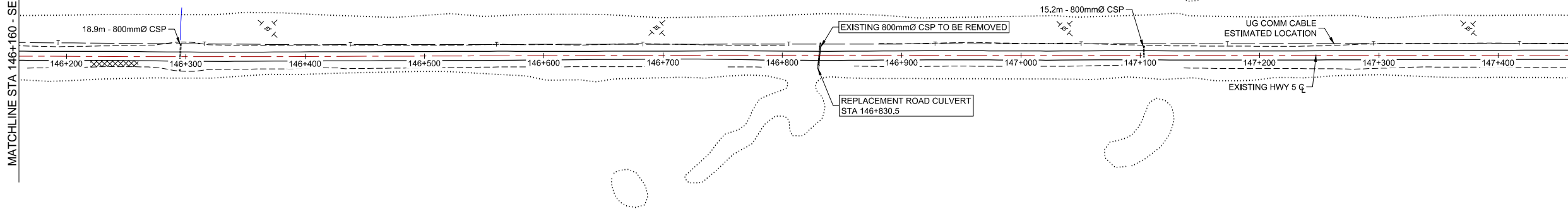
PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
WSP CANADA INC.	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./ No. de la feuille	
161-11147-01		107	
Drawing Reference No./No. de référence du dessin			

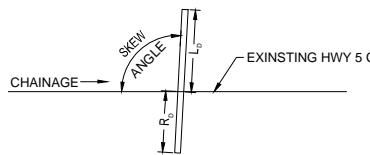
MATCHLINE STA 146+160 - SEE DWG. 108



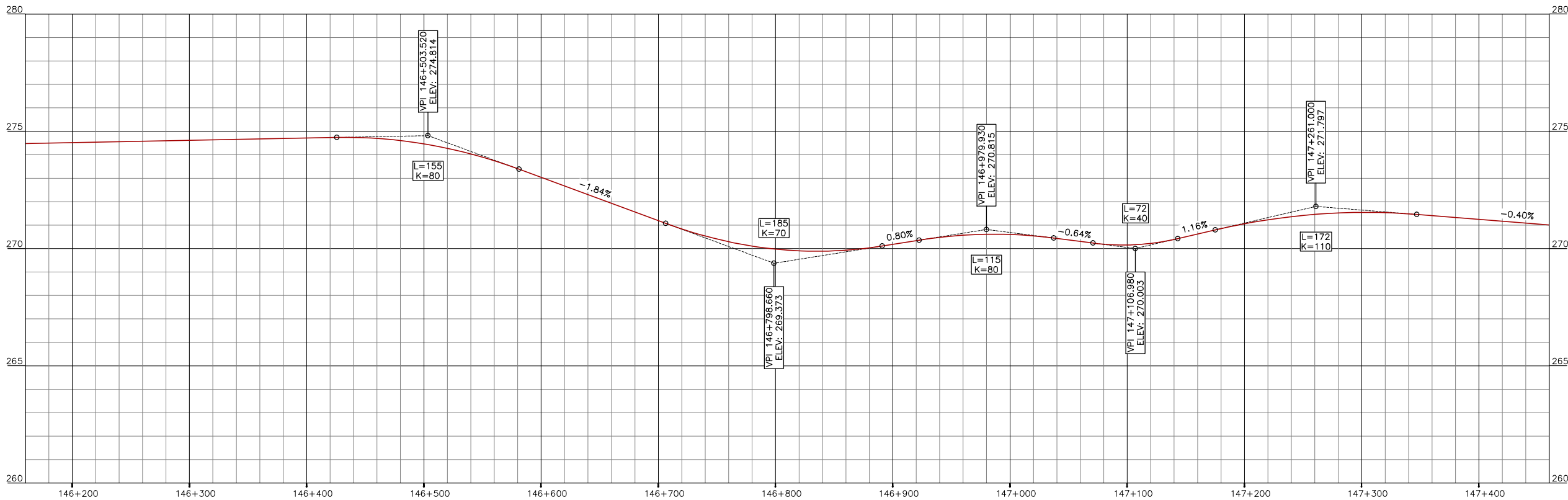
MATCHLINE STA 147+460 - SEE DWG. 110

ROAD CULVERT EXTENSION TABLE					
STATION @ C	SIDE TO EXTEND	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	INVERT (m)
146+294.5	RIGHT	4.0	800	-1.09	271.98
147+102.8	RIGHT	2.0	800	-0.46	268.28

REPLACEMENT ROAD CULVERT LAYOUT



REPLACEMENT ROAD CULVERT TABLE								
STATION @ C	SKEW ANGLE	L _o (m)	R _o (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
146+830.5	95.0°	11.12	10.79	22.0	800	0.68	267.35	267.50



LEGEND

EXISTING	
	SHOULDER OF HIGHWAY
	SHOULDER OF GRAVEL ROAD
	DITCH LINE
	TREE LINE
	WATER
	ROAD CULVERT
	ACCESS CULVERT INLET/OUTLET
	TOWER LOCATION
	ANCHOR LOCATION
	DITCHING REQUIRED

INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES IS COMPILED FROM SOME RECORD DRAWINGS AND SOME SURVEYS, AND MAY NOT BE COMPLETE OR FULLY ACCURATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AND ADVISE THE DEPARTMENTAL REPRESENTATIVE OF ANY POTENTIAL CONFLICTS.

1	17-01-20	ISSUED FOR TENDER	CH	HW
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Nom de l'expert-conseil

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Public Works and Government Services Canada

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Southern Alberta Operations Branch

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Canada

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Parks Canada Agency

L'Agence Parcs Canada

Western and Northern Region

Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

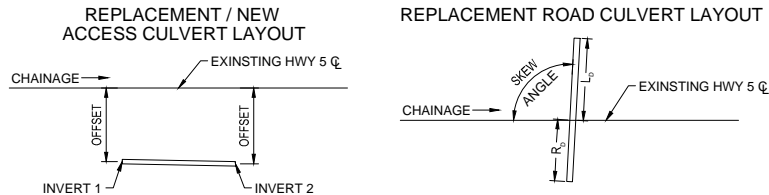
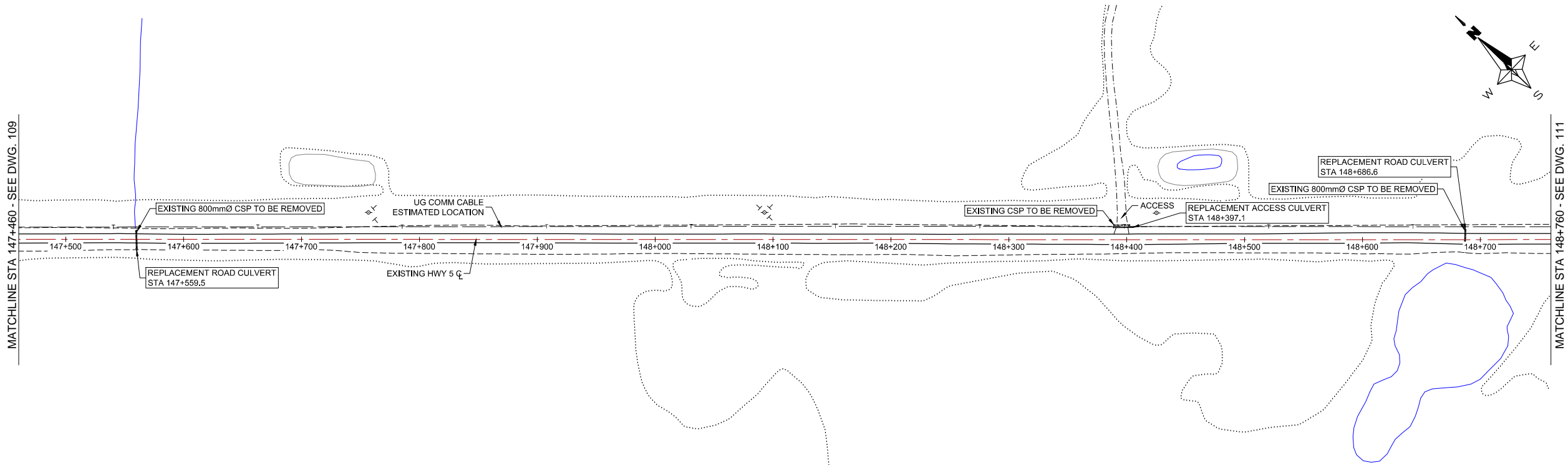
PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

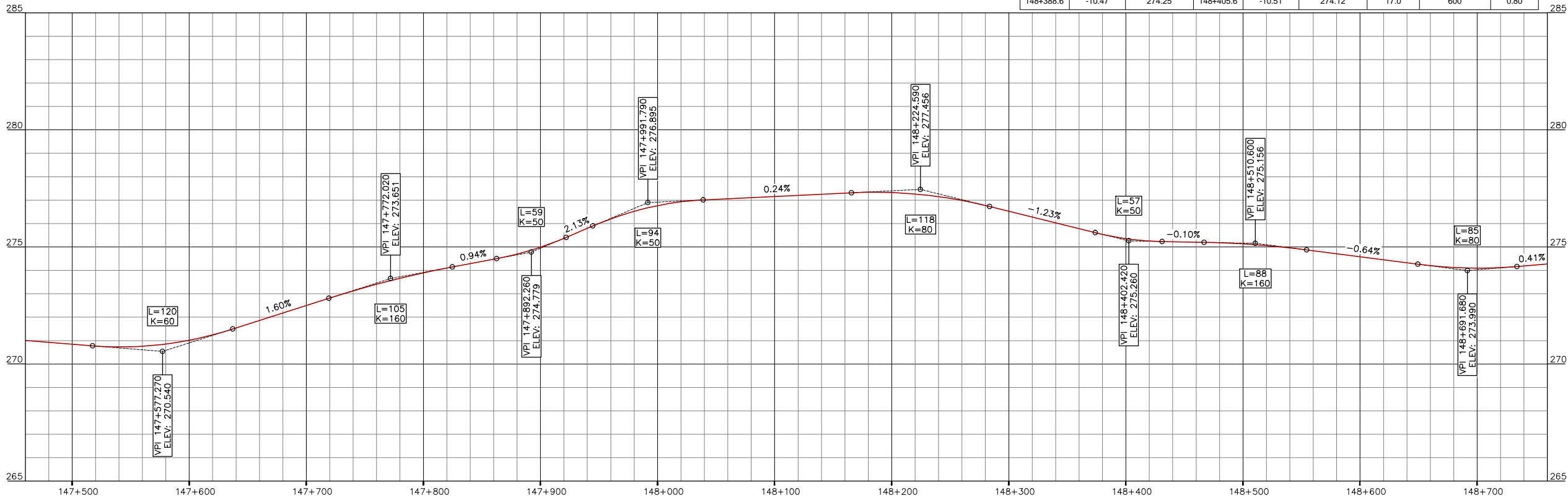
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille	
161-11147-01		109	
Drawing Reference No./No. de référence du dessin			

MATCHLINE STA 147+460 - SEE DWG. 109



REPLACEMENT ROAD CULVERT TABLE							
STATION @ CL	SKW ANGLE	L _o (m)	R _o (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	
147+559.5	88.7°	8.63	8.37	17.0	800	0.59	
148+686.6	91.3°	8.85	9.15	18.0	800	-0.83	
LEFT INVERT (m)	RIGHT INVERT (m)						
269.05	269.15						
272.35	272.20						

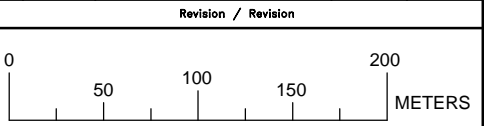
REPLACEMENT / NEW ACCESS CULVERT TABLE							
INVERT 1			INVERT 2			LENGTH (m)	DIAMETER (mm)
STATION	OFFSET (m)	ELEVATION (m)	STATION	OFFSET (m)	ELEVATION (m)		
148+388.6	-10.47	274.25	148+405.6	-10.51	274.12	17.0	600
							0.80



LEGEND			
EXISTING	SHOULDER OF HIGHWAY		
	SHOULDER OF GRAVEL ROAD		
	DITCH LINE		
	TREE LINE		
	WATER		
=====	ROAD CULVERT		
>	ACCESS CULVERT INLET/OUTLET		
o	TOWER LOCATION		
+	ANCHOR LOCATION		
XXXXXX	DITCHING REQUIRED		

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Western and Northern Region

Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

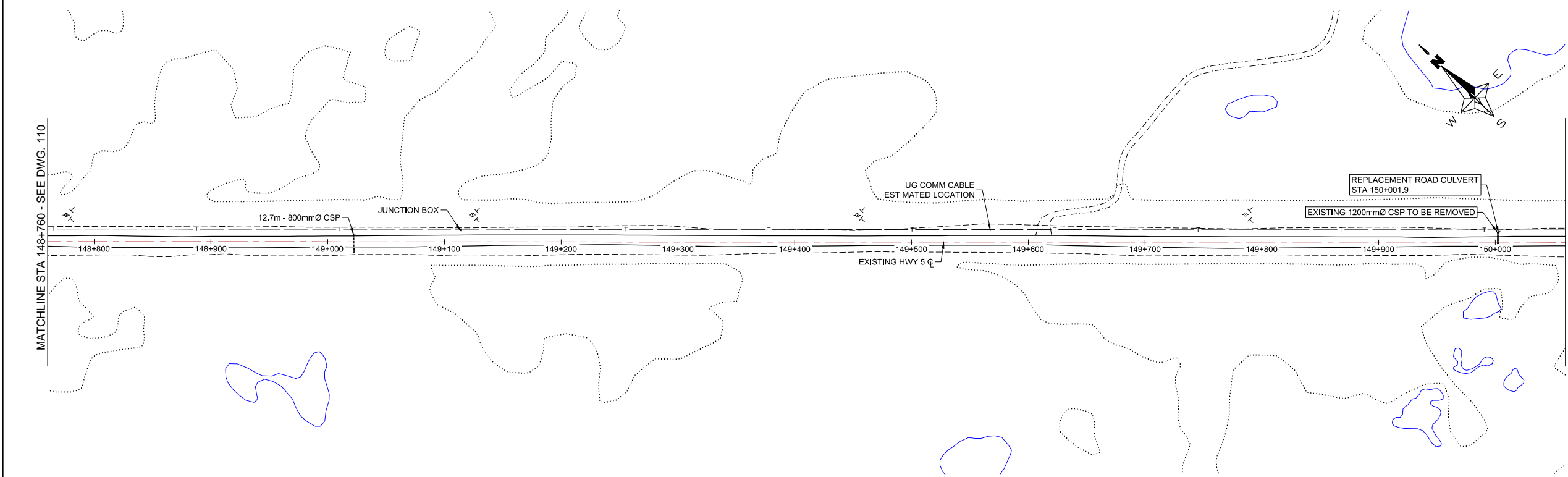
Drawing title/Titre du dessin

PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2017-01-20
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PWGSC Project Manager/Administrateur de Projets TPSGC

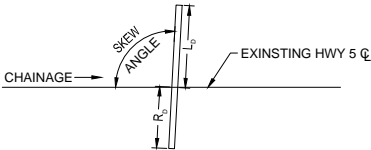
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille	
161-11147-01		110	
Drawing Reference No./No. de référence du dessin			



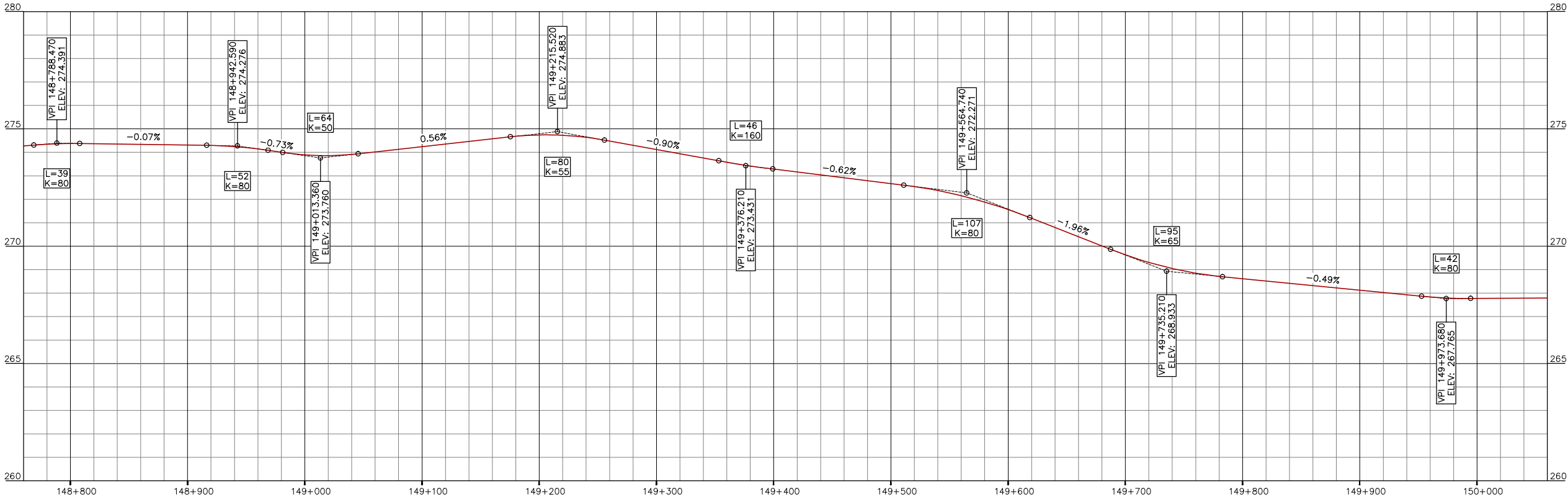
ROAD CULVERT EXTENSION TABLE					
STATION @ C	SIDE TO EXTEND	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	INVERT (m)
149+022.0	RIGHT	3.0	800	0.50	272.04

SURVEY CONTROL POINTS (UTM12)			
POINT NUMBER	NORTHING	EASTING	ELEVATION
581	6675353.349	348463.659	272.246

REPLACEMENT ROAD CULVERT LAYOUT



REPLACEMENT ROAD CULVERT TABLE								
STATION @ C	SKEW ANGLE	L _c (m)	R _c (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
150+001.9	90.8°	9.13	8.87	18.0	1200	0.00	265.78	265.78



LEGEND

EXISTING

SHOULDER OF HIGHWAY

SHOULDER OF GRAVEL ROAD

DITCH LINE

TREE LINE

WATER

ROAD CULVERT

ACCESS CULVERT INLET/OUTLET

TOWER LOCATION

ANCHOR LOCATION

DITCHING REQUIRED

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050100150200

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Consultant's Name
Nom de l'expert-conseil

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Client Services Team
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HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

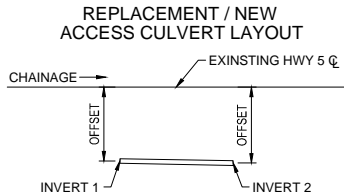
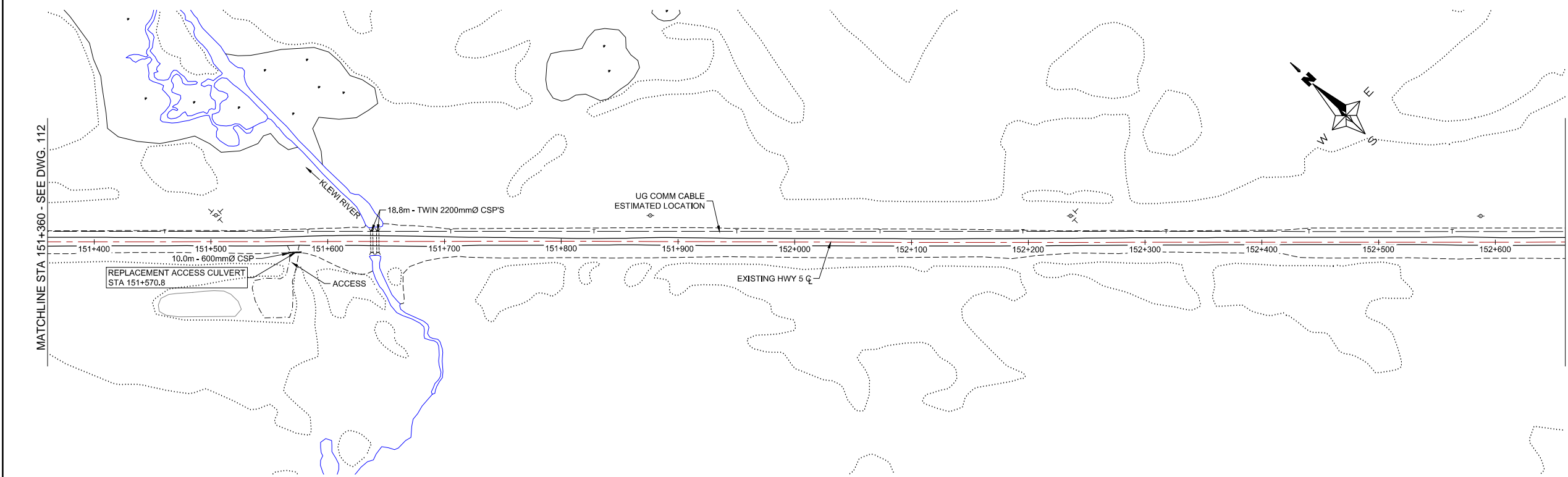
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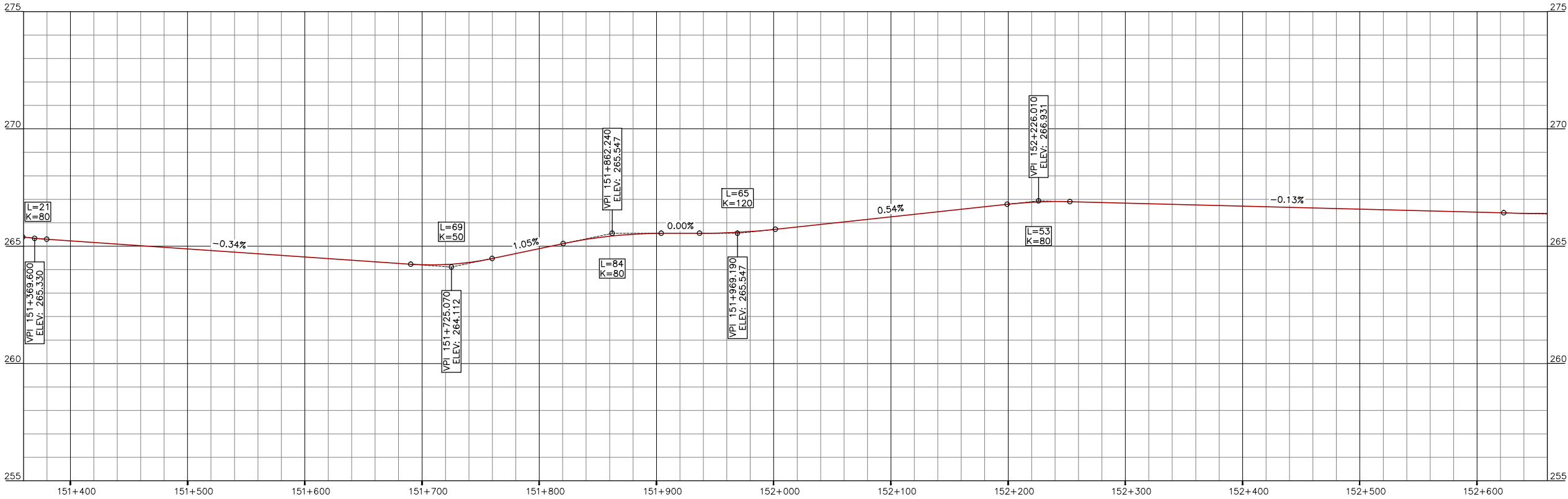
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2017-01-20
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WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./ No. de la feuille	
161-11147-01		111	
Drawing Reference No./No. de référence du dessin			



REPLACEMENT / NEW ACCESS CULVERT TABLE								
INVERT 1			INVERT 2			LENGTH (m)	DIAMETER (mm)	SLOPE (%)
STATION	OFFSET (m)	ELEVATION (m)	STATION	OFFSET (m)	ELEVATION (m)			
151+565.9	10.18	263.14	151+575.7	11.94	263.06	10.0	600	0.70



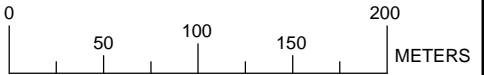
LEGEND			
EXISTING	SHOULDER OF HIGHWAY		
	SHOULDER OF GRAVEL ROAD		
	DITCH LINE		
	TREE LINE		
	WATER		
=====	ROAD CULVERT		
>	ACCESS CULVERT INLET/OUTLET		
+	TOWER LOCATION		
+	ANCHOR LOCATION		
XXXXXX	DITCHING REQUIRED		

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Nom de l'expert-conseil

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Western and Northern Region
Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

PLAN-PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par

Park Responsible Officer/Agent Responsable

PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet

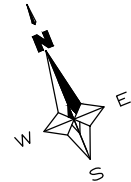
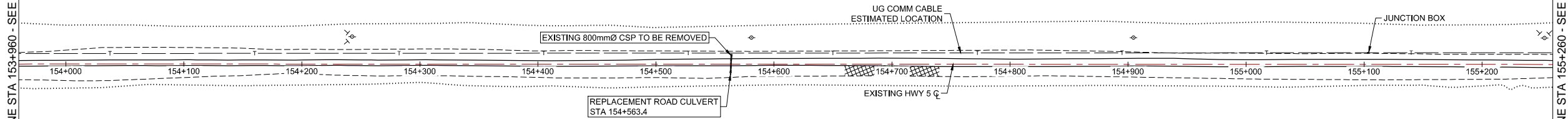
Asset No./No. du-bien

Sheet No./No. de la feuille

Drawing Reference No./No. de référence du dessin

113

MATCHLINE STA 153+960 - SEE DWG. 114

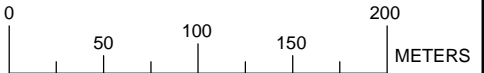


LEGEND	
EXISTING	
—	SHOULDER OF HIGHWAY
- - - - -	SHOULDER OF GRAVEL ROAD
- · - · -	DITCH LINE
· · · · ·	TREE LINE
—	WATER
=====	ROAD CULVERT
>	ACCESS CULVERT INLET/OUTLET
⊕	TOWER LOCATION
⊥	ANCHOR LOCATION
XXXXXX	DITCHING REQUIRED

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Consultant's Name
Nom de l'expert-conseil



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Client Services Team
Southern Alberta
Operations Branch

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Alberta Méridional
Branche d'Opérations

Canada

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Parks Canada
Agency

L'Agence Parcs
Canada

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Northern Region

Ouest et Nord
du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

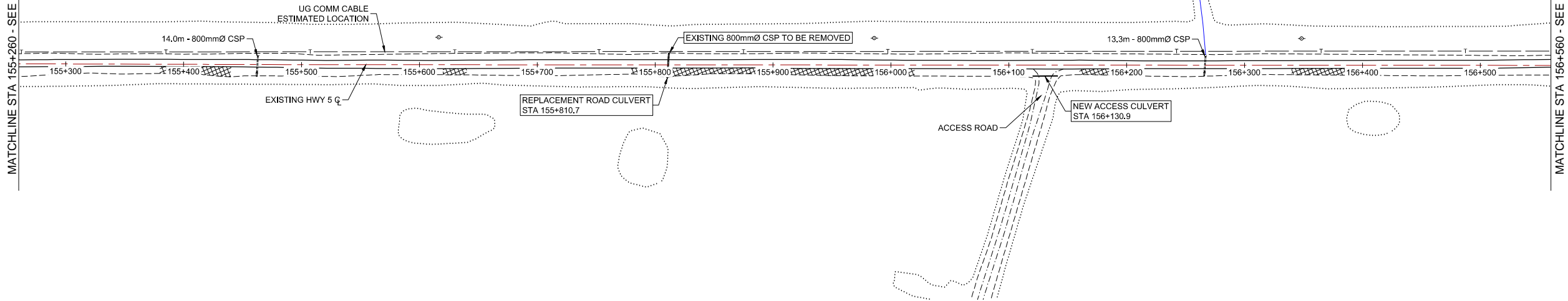
PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par WSP CANADA INC.	Date/Date 2017-01-20
Designed by/Concept par WSP CANADA INC.	Reviewed by/Revisé par	Scale/Échelle 1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

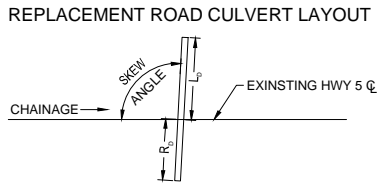
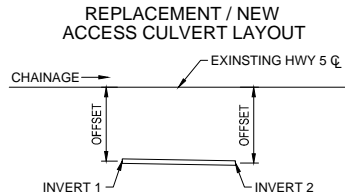
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet 161-11147-01	Asset No./No. du-bien	Sheet No./ No. de la feuille 115	
Drawing Reference No./No. de référence du dessin			

MATCHLINE STA 155+260 - SEE DWG. 115



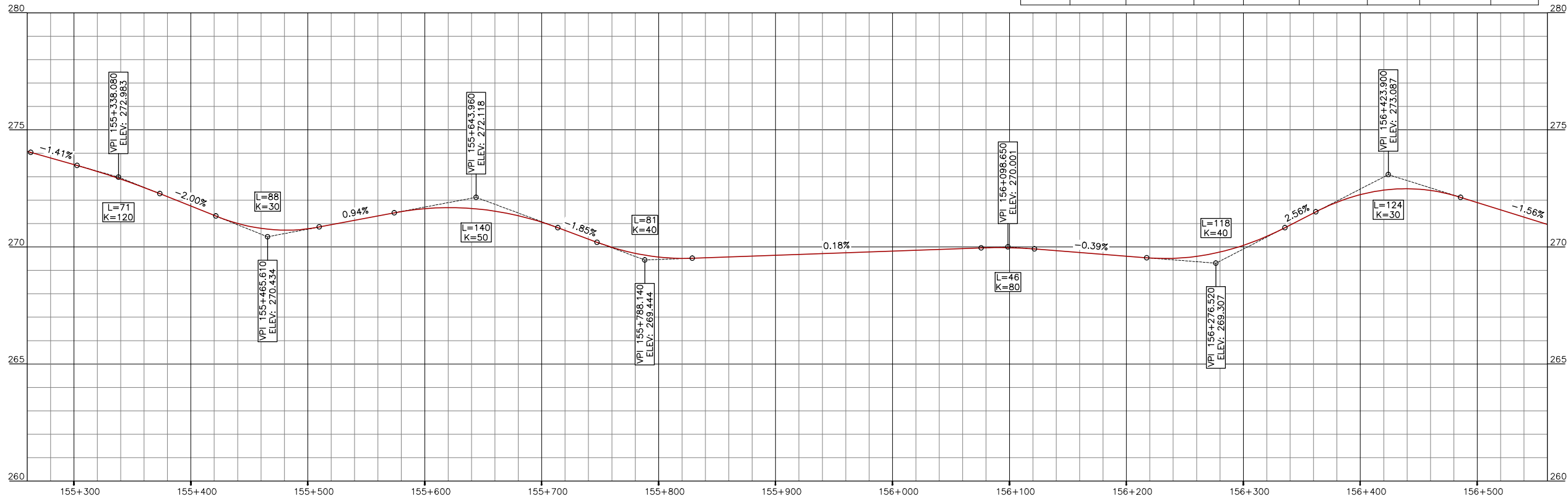
MATCHLINE STA 156+560 - SEE DWG. 117

ROAD CULVERT EXTENSION TABLE					
STATION @ CL	SIDE TO EXTEND	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	INVERT (m)
155+461.9	RIGHT	4.0	800	0.22	268.90
156+265.7	RIGHT	4.0	800	-1.88	268.06



REPLACEMENT ROAD CULVERT TABLE								
STATION @ CL	SKIEW ANGLE	L _o (m)	R _o (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
155+810.7	91.2°	10.47	10.49	21.0	800	0.00	267.12	267.12

REPLACEMENT / NEW ACCESS CULVERT TABLE								
INVERT 1			INVERT 2			LENGTH (m)	DIAMETER (mm)	SLOPE (%)
STATION	OFFSET (m)	ELEVATION (m)	STATION	OFFSET (m)	ELEVATION (m)			
156+120.4	9.38	268.65	156+141.4	9.15	268.53	21.0	600	0.50



LEGEND

EXISTING

	SHOULDER OF HIGHWAY
	SHOULDER OF GRAVEL ROAD
	DITCH LINE
	TREE LINE
	WATER
	ROAD CULVERT
	ACCESS CULVERT INLET/OUTLET
	TOWER LOCATION
	ANCHOR LOCATION
	DITCHING REQUIRED

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Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

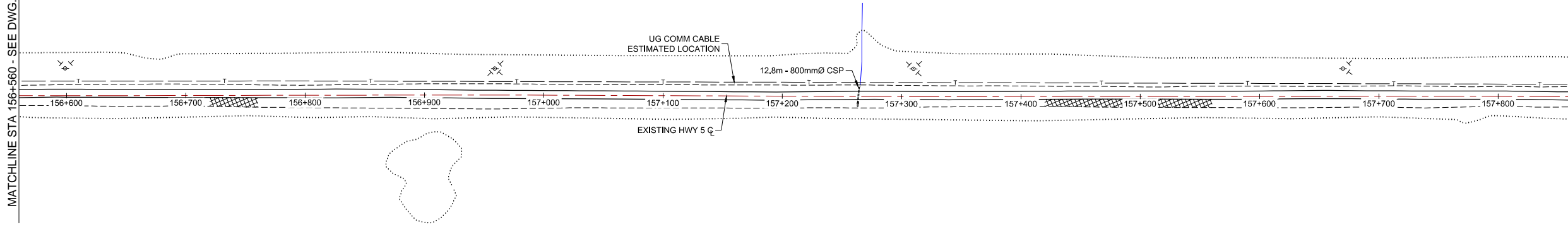
PLAN-PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
WSP CANADA INC.	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

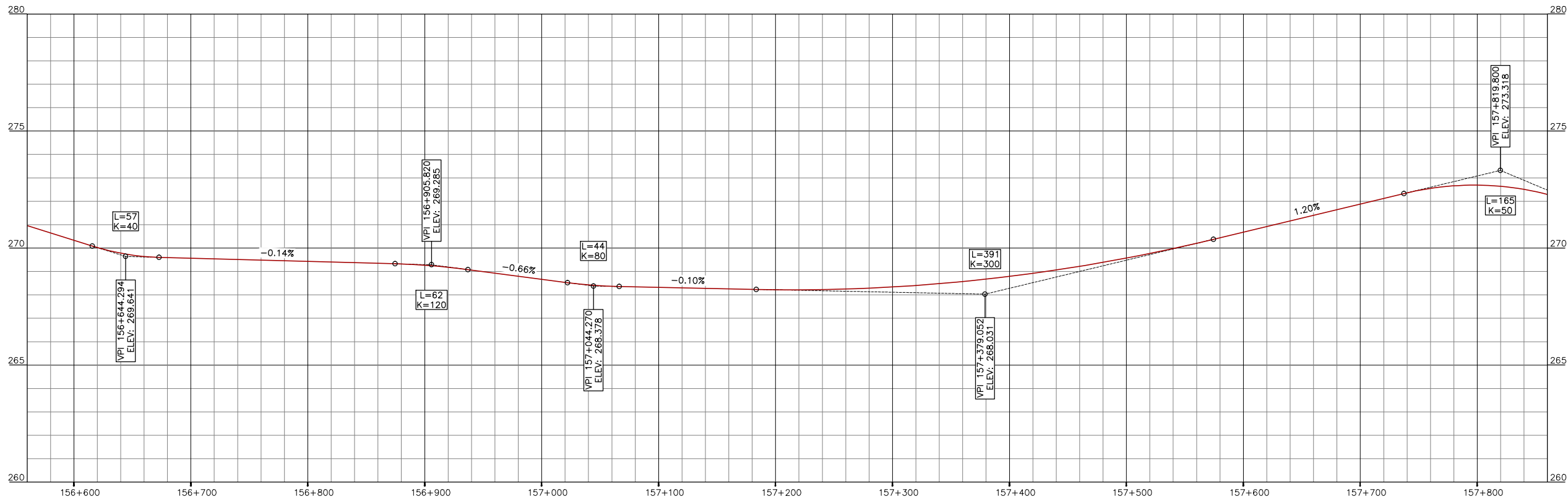
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille	
161-11147-01		116	
Drawing Reference No./No. de référence du dessin			

MATCHLINE STA 156+560 - SEE DWG. 116



MATCHLINE STA 157+860 - SEE DWG. 118

ROAD CULVERT EXTENSION TABLE					
STATION @ C/L	SIDE TO EXTEND	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	INVERT (m)
157+263.0	RIGHT	4.0	800	-0.31	266.61



LEGEND

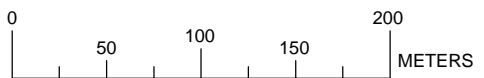
EXISTING

- SHOULDER OF HIGHWAY
- SHOULDER OF GRAVEL ROAD
- DITCH LINE
- TREE LINE
- WATER
- ROAD CULVERT
- ACCESS CULVERT INLET/OUTLET
- TOWER LOCATION
- ANCHOR LOCATION
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Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

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Western and Northern Region

Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

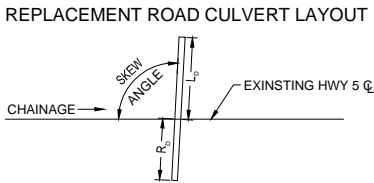
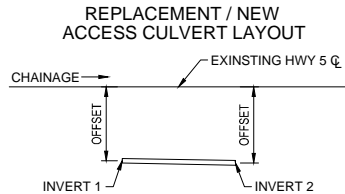
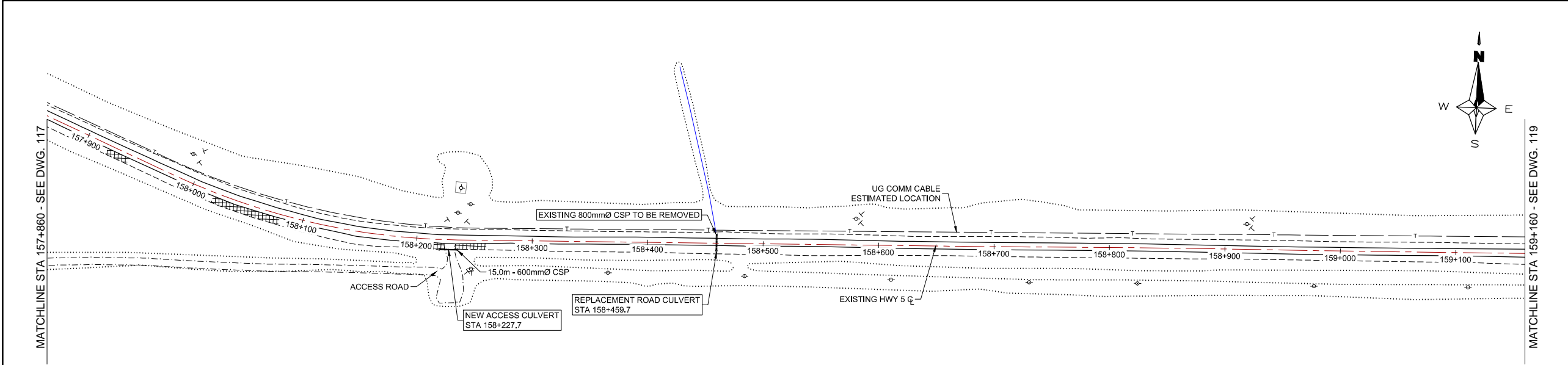
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PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
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WSP CANADA INC.		1:2000

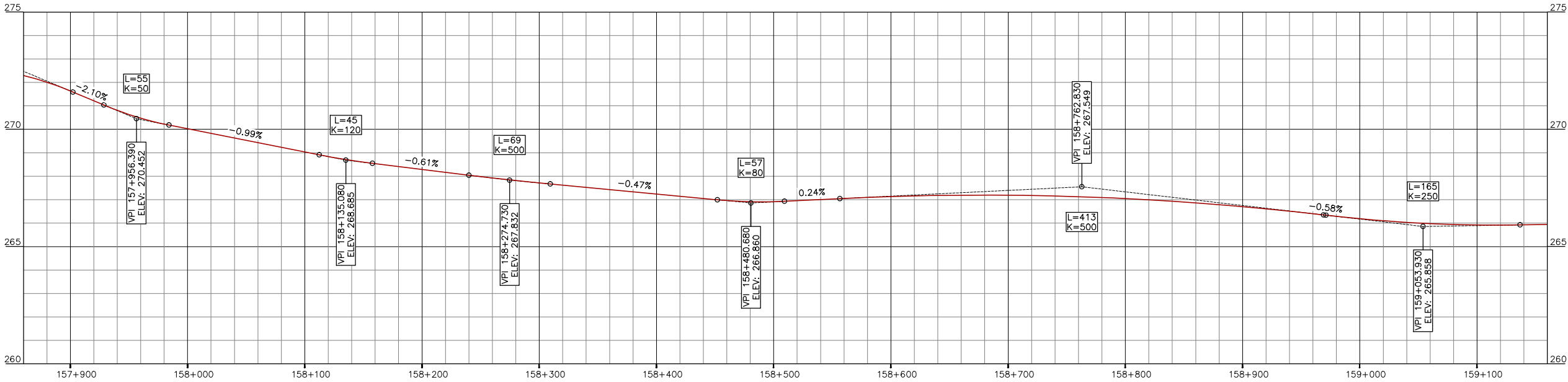
PWGSC Project Manager/Administrateur de Projets TPSGC

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Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille	
161-11147-01		117	
Drawing Reference No./No. de référence du dessin			



REPLACEMENT ROAD CULVERT TABLE								
STATION @ CL	SKIEW ANGLE	L _o (m)	R _o (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
158+459.7	90.1°	7.64	7.36	15.0	800	0.67	265.40	265.50

REPLACEMENT / NEW ACCESS CULVERT TABLE								
INVERT 1			INVERT 2			LENGTH (m)	DIAMETER (mm)	SLOPE (%)
STATION	OFFSET (m)	ELEVATION (m)	STATION	OFFSET (m)	ELEVATION (m)			
158+220.3	8.68	266.85	158+235.1	8.46	266.78	15.0	600	0.50



LEGEND

EXISTING

- SHOULDER OF HIGHWAY
- SHOULDER OF GRAVEL ROAD
- DITCH LINE
- TREE LINE
- WATER

ROAD CULVERT

ACCESS CULVERT INLET/OUTLET

TOWER LOCATION

ANCHOR LOCATION

DITCHING REQUIRED

INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES IS COMPILED FROM SOME RECORD DRAWINGS AND SOME SURVEYS, AND MAY NOT BE COMPLETE OR FULLY ACCURATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AND ADVISE THE DEPARTMENTAL REPRESENTATIVE OF ANY POTENTIAL CONFLICTS.

1	17-01-20	ISSUED FOR TENDER	CH	HW
0	17-01-12	ISSUED FOR REVIEW	CH	HW

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

0 50 100 150 200 METERS

Consultant's Name
Nom de l'expert-conseil

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Sceau de l'ingénieur

WSP

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

Client Services Team
Southern Alberta Operations Branch

Le Client Entretien l'Équipe Alberta Méridional Branche d'Opérations

Canada

Client/client
Parks Canada Agency
L'Agence Parcs Canada

Western and Northern Region
Ouest et Nord du Canada

Project title/Titre du projet
**HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2**

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin
PLAN-PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
WSP CANADA INC.	WSP CANADA INC.	2017-01-20

Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

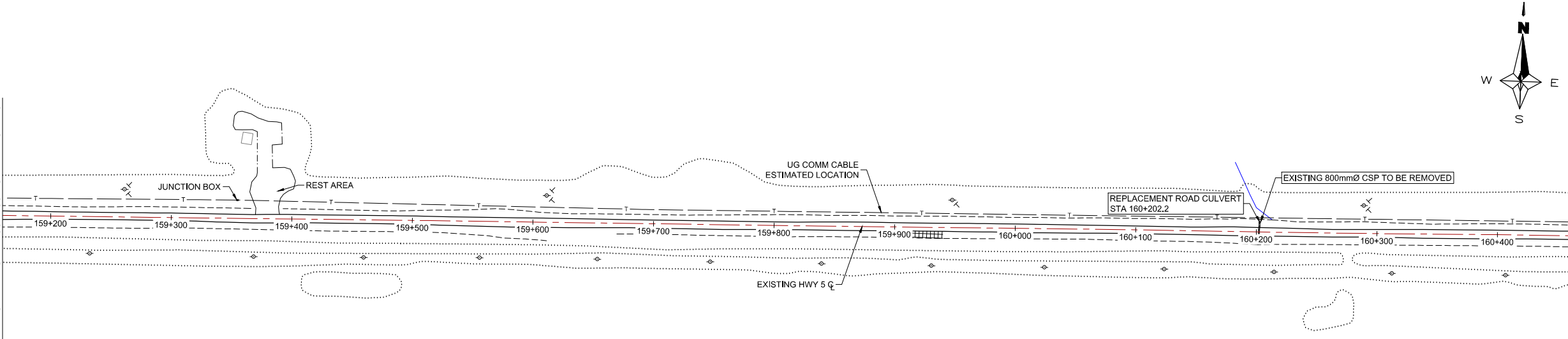
PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Park Responsible Officer/Agent Responsable	PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
161-11147-01		118

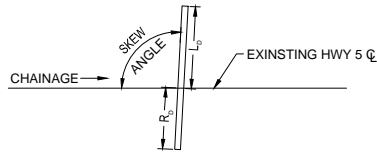
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MATCHLINE STA 159+160 - SEE DWG. 118

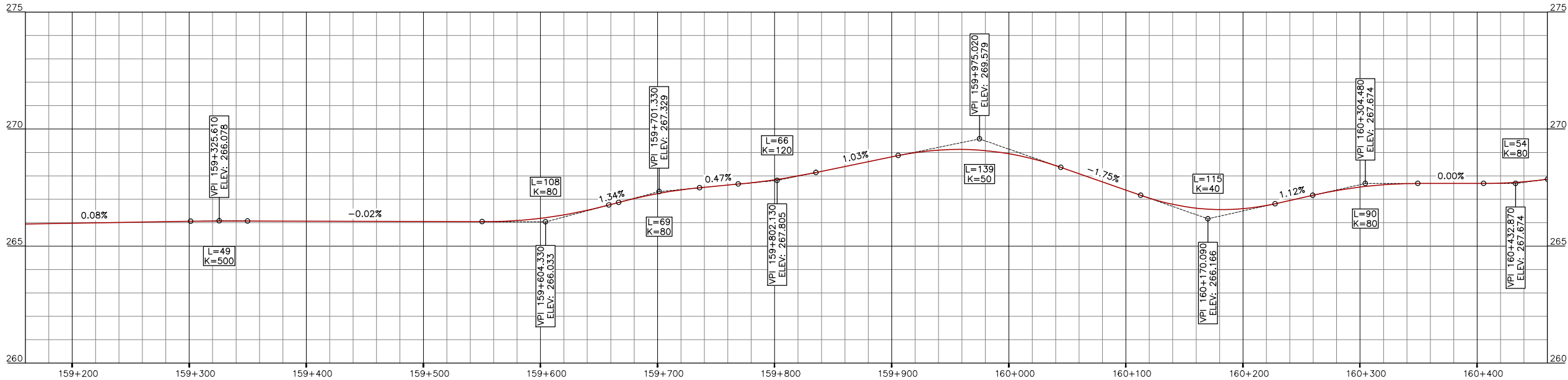


MATCHLINE STA 160+460 - SEE DWG. 120

REPLACEMENT ROAD CULVERT LAYOUT



REPLACEMENT ROAD CULVERT TABLE								
STATION @ C	SKEW ANGLE	L _o (m)	R _o (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
160+202.2	93.8°	8.85	8.11	17.0	800	1.18	264.75	264.95



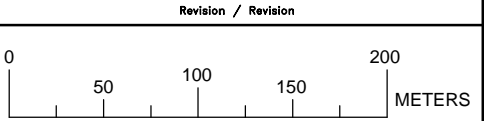
LEGEND

EXISTING

- SHOULDER OF HIGHWAY
- SHOULDER OF GRAVEL ROAD
- DITCH LINE
- TREE LINE
- WATER
- ROAD CULVERT
- ACCESS CULVERT INLET/OUTLET
- TOWER LOCATION
- ANCHOR LOCATION
- DITCHING REQUIRED

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Consultant's Name
Nom de l'expert-conseil

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Travaux publics et Services gouvernementaux Canada

Client Services Team
Southern Alberta
Operations Branch

Le Client Entretien l'Équipe
Alberta Méridional
Branche d'Opérations

Canada

Client/client

Parks Canada Agency

L'Agence Parcs Canada

Western and Northern Region

Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

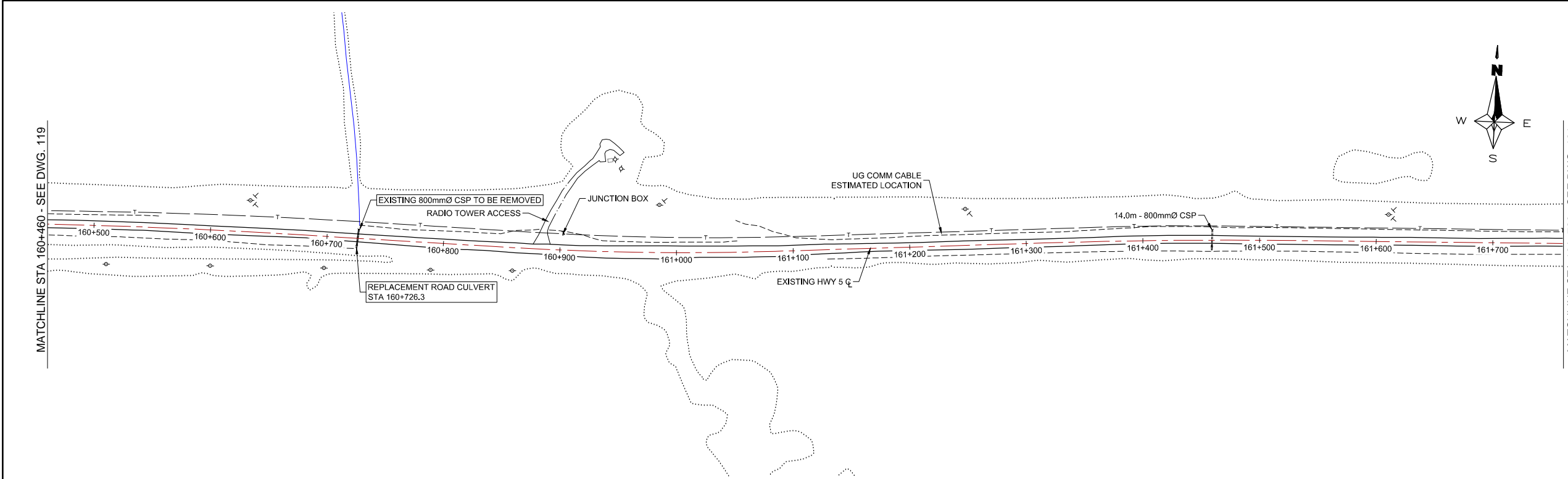
Drawing title/Titre du dessin

PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

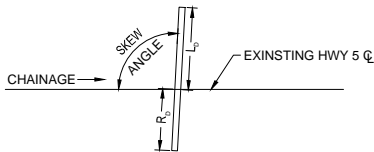
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille	
161-11147-01		119	
Drawing Reference No./No. de référence du dessin			



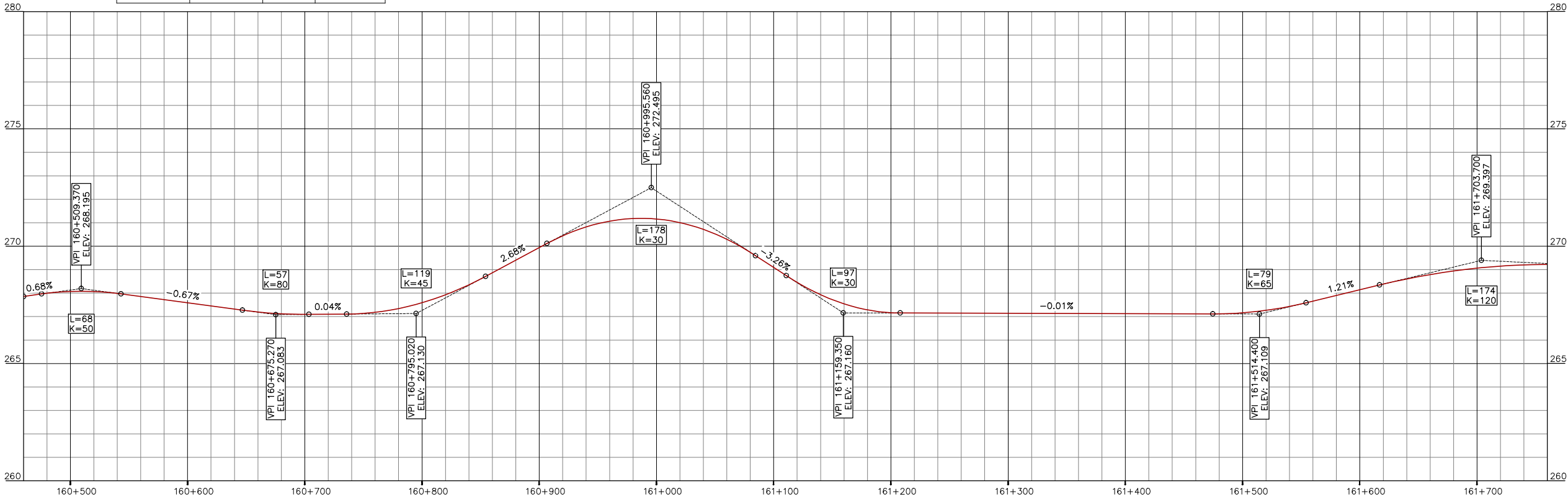
ROAD CULVERT EXTENSION TABLE					
STATION @ C	SIDE TO EXTEND	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	INVERT (m)
161+459.2	RIGHT	4.0	800	0.94	265.65

SURVEY CONTROL POINTS (UTM12)			
POINT NUMBER	NORTHING	EASTING	ELEVATION
582	6670774.508	358417.711	278.295

REPLACEMENT ROAD CULVERT LAYOUT



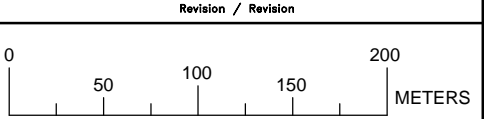
REPLACEMENT ROAD CULVERT TABLE								
STATION @ C	SKW ANGLE	L _s (m)	R _s (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
160+726.3	93.8°	8.23	7.74	16.0	800	0.94	265.50	265.65



LEGEND	
EXISTING	
-----	SHOULDER OF HIGHWAY
-----	SHOULDER OF GRAVEL ROAD
-----	DITCH LINE
-----	TREE LINE
-----	WATER
=====	ROAD CULVERT
>	ACCESS CULVERT INLET/OUTLET
+	TOWER LOCATION
+	ANCHOR LOCATION
=====	DITCHING REQUIRED

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1	17-01-20	ISSUED FOR TENDER	CH	HW
0	17-01-12	ISSUED FOR REVIEW	CH	HW



Consultant's Name
Nom de l'expert-conseil

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Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Client Services Team
Southern Alberta Operations Branch

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Client/client

Parks Canada Agency

L'Agence Parcs Canada

Western and Northern Region

Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

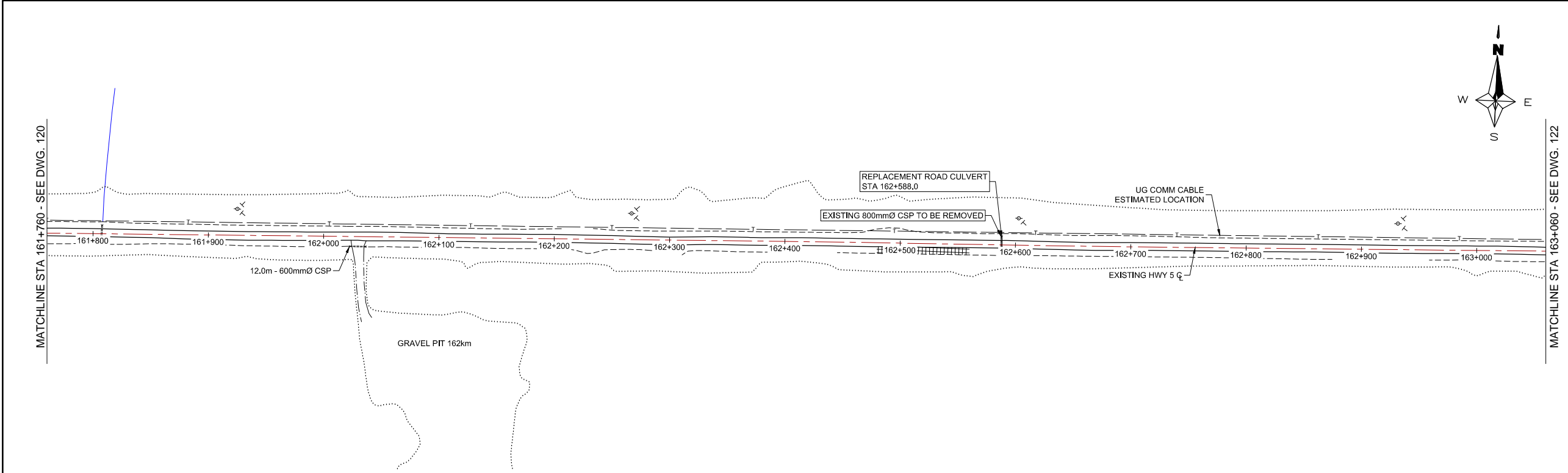
PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
WSP CANADA INC.	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

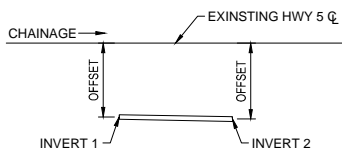
PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Park Responsible Officer/Agent Responsable	PWGSC Project Manager/Administrateur de Projets TPSGC

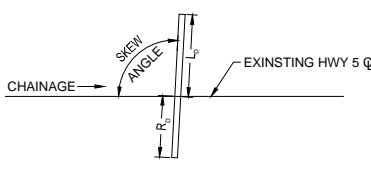
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
161-11147-01		120
Drawing Reference No./No. de référence du dessin		



REPLACEMENT / NEW ACCESS CULVERT LAYOUT

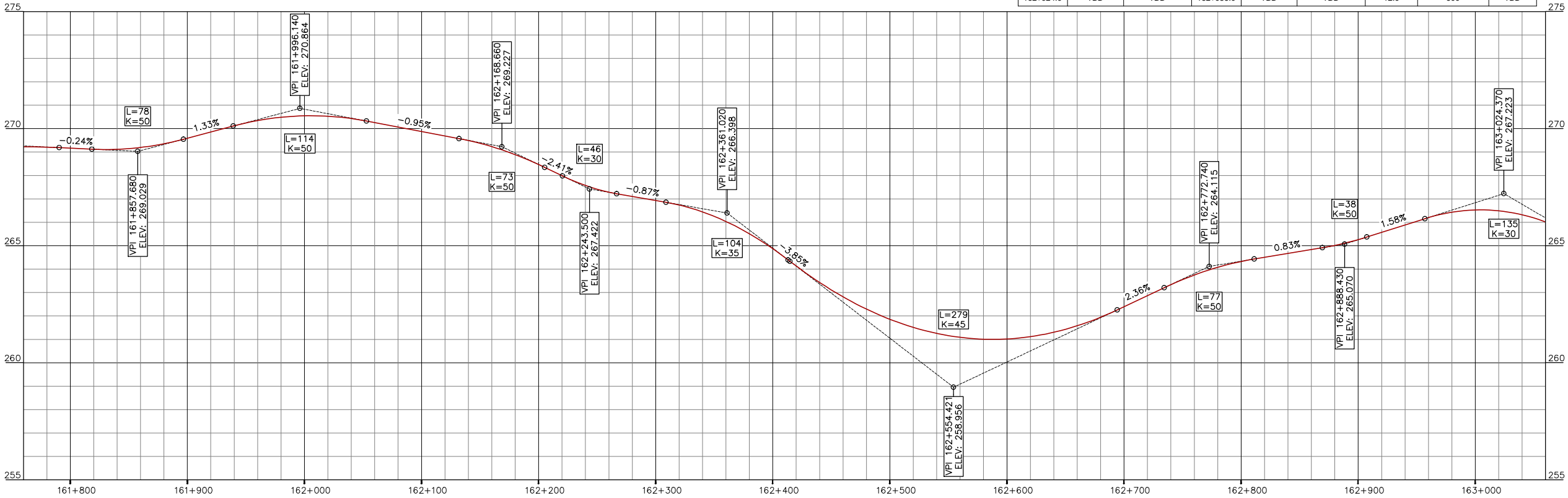


REPLACEMENT ROAD CULVERT LAYOUT



REPLACEMENT ROAD CULVERT TABLE								
STATION @ CL	SKIEW ANGLE	L _o (m)	R _o (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
162+588.0	89.2°	7.87	8.13	16.0	800	-0.31	259.45	259.40

REPLACEMENT / NEW ACCESS CULVERT TABLE								
INVERT 1			INVERT 2			LENGTH (m)	DIAMETER (mm)	SLOPE (%)
STATION	OFFSET (m)	ELEVATION (m)	STATION	OFFSET (m)	ELEVATION (m)			
162+024.0	TBD	TBD	162+036.0	TBD	TBD	12.0	600	TBD



LEGEND

EXISTING

- SHOULDER OF HIGHWAY
- SHOULDER OF GRAVEL ROAD
- DITCH LINE
- TREE LINE
- WATER
- ROAD CULVERT
- ACCESS CULVERT INLET/OUTLET
- TOWER LOCATION
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
Revision / Revision				

050100200METERS

Consultant's Name
Nom de l'expert-conseil

WSP

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Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Client Services Team
Southern Alberta Operations Branch

Le Client Entretien l'Équipe Alberta Méridional Branche d'Opérations

Canada

Client/client

Parks Canada Agency

L'Agence Parcs Canada

Western and Northern Region

Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
WSP CANADA INC.	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

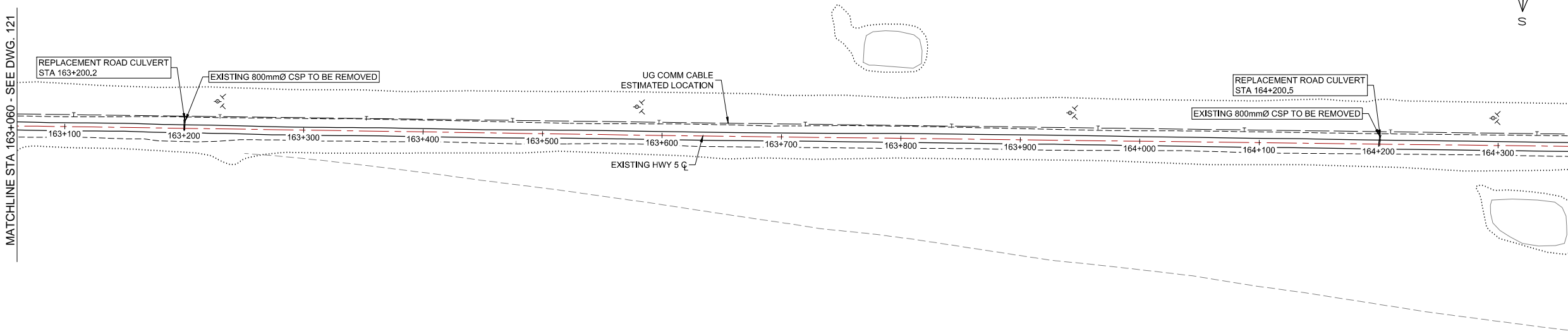
PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Park Responsible Officer/Agent Responsable	PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille
161-11147-01		121

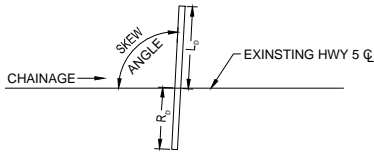
Drawing Reference No./No. de référence du dessin

MATCHLINE STA 163+060 - SEE DWG. 121



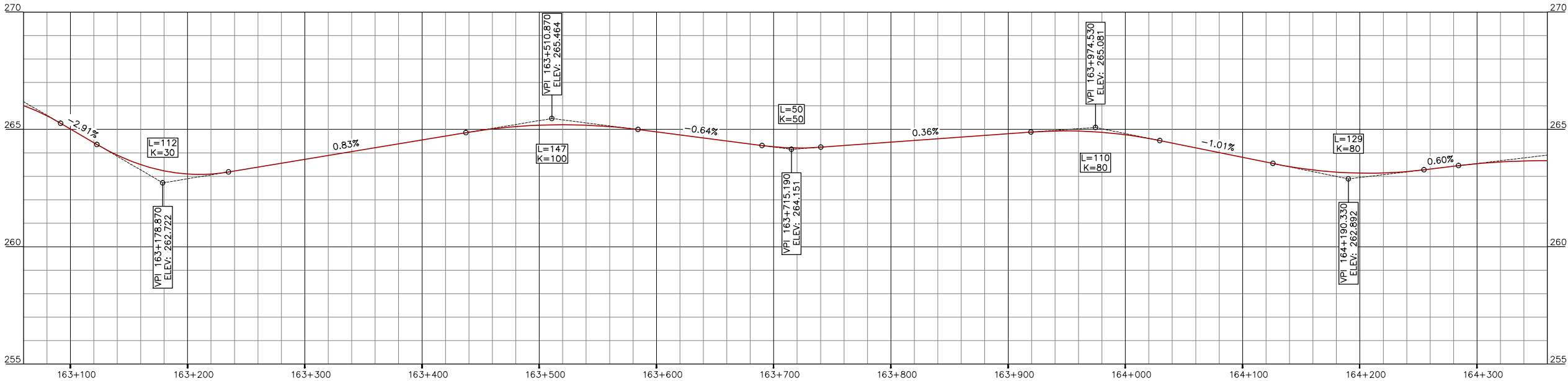
MATCHLINE STA 164+360 - SEE DWG. 123

REPLACEMENT ROAD CULVERT LAYOUT



REPLACEMENT ROAD CULVERT TABLE

STATION @ CL	SKEW ANGLE	L _s (m)	R _s (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
163+200.2	91.1°	8.01	7.99	16.0	800	0.00	261.55	261.55
164+200.5	94.8°	7.47	8.47	16.0	800	-1.57	261.65	261.40



LEGEND

EXISTING

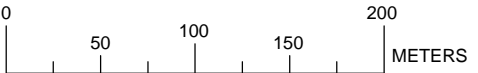
- SHOULDER OF HIGHWAY
- SHOULDER OF GRAVEL ROAD
- DITCH LINE
- TREE LINE
- WATER
- ROAD CULVERT
- ACCESS CULVERT INLET/OUTLET
- TOWER LOCATION
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0	17-01-12	ISSUED FOR REVIEW	CH	HW

No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
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Revision / Revision



Consultant's Name
Nom de l'expert-conseil



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Sceau de l'ingénieur

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
Client Services Team Southern Alberta Operations Branch
Le Client Entretien l'Équipe Alberta Méridional Branche d'Opérations

Canada

Client/client
Parks Canada Agency
L'Agence Parcs Canada

Western and Northern Region
Ouest et Nord du Canada

Project title/Titre du projet
HIGHWAY 5
ROAD REHABILITATION
PHASE 2 - SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin
PLAN-PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
WSP CANADA INC.	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client
Approved by/Approuvé par

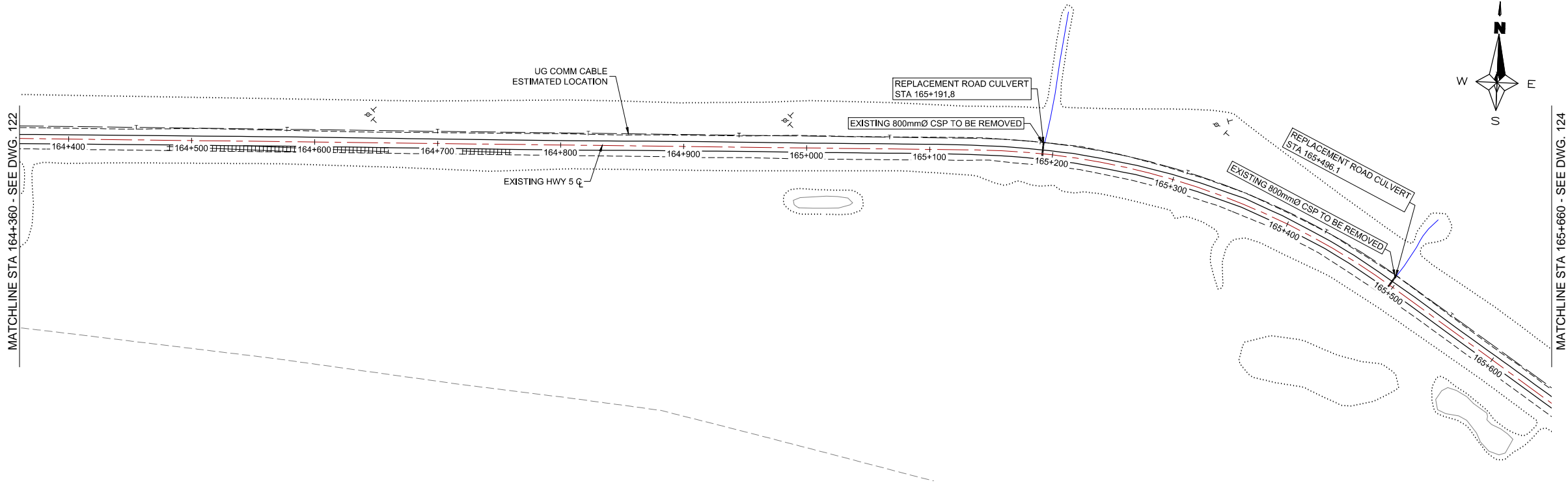
Park Responsible Officer/Agent Responsable
PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet
161-11147-01

Asset No./No. du-bien

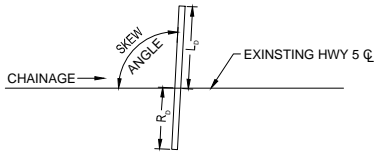
Sheet No./No. de la feuille

Drawing Reference No./No. de référence du dessin

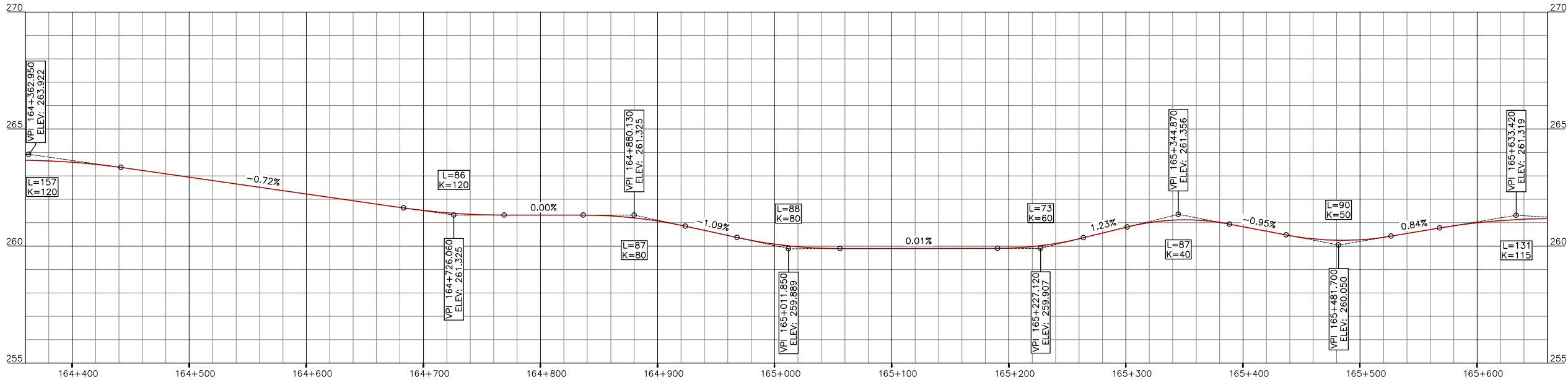


SURVEY CONTROL POINTS (UTM12)			
POINT NUMBER	NORTHING	EASTING	ELEVATION
541	6670879.404	362798.287	260.299

REPLACEMENT ROAD CULVERT LAYOUT



REPLACEMENT ROAD CULVERT TABLE								
STATION @ CL	SKEW ANGLE	L _s (m)	R _s (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
165+191.8	89.4°	9.40	7.60	17.0	800	0.29	258.25	258.30
165+496.1	90.9°	9.42	7.58	17.0	800	0.88	258.55	258.70



LEGEND

EXISTING

SHOULDER OF HIGHWAY

SHOULDER OF GRAVEL ROAD

DITCH LINE

TREE LINE

WATER

ROAD CULVERT

ACCESS CULVERT INLET/OUTLET

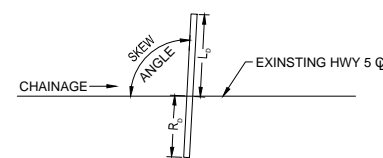
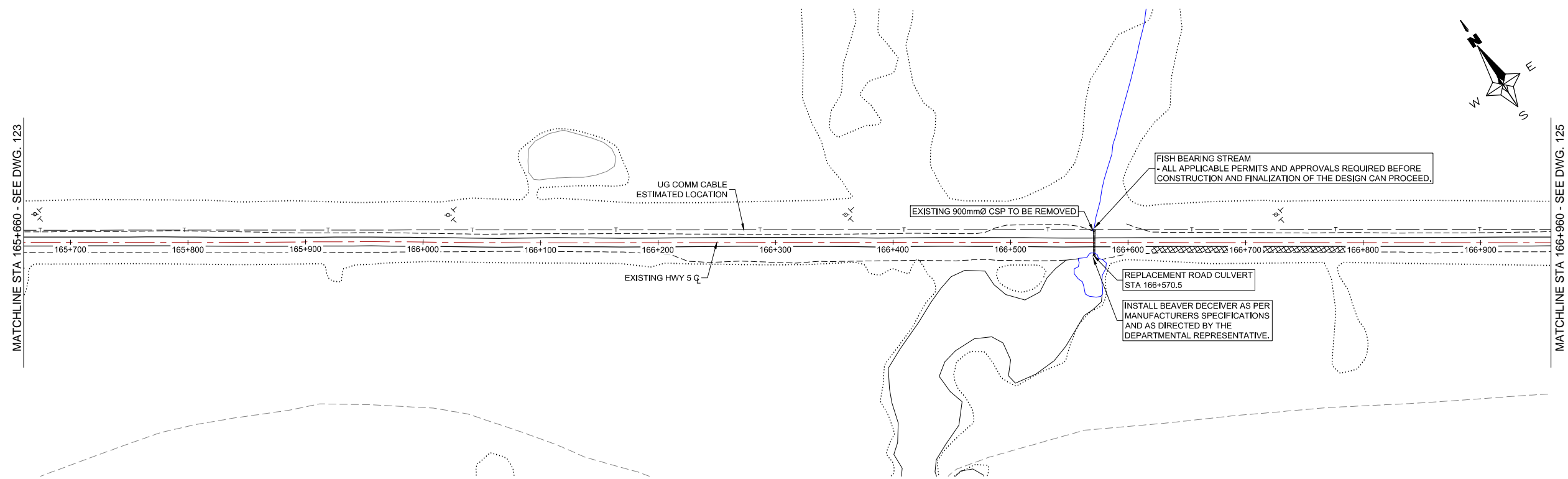
TOWER LOCATION

ANCHOR LOCATION

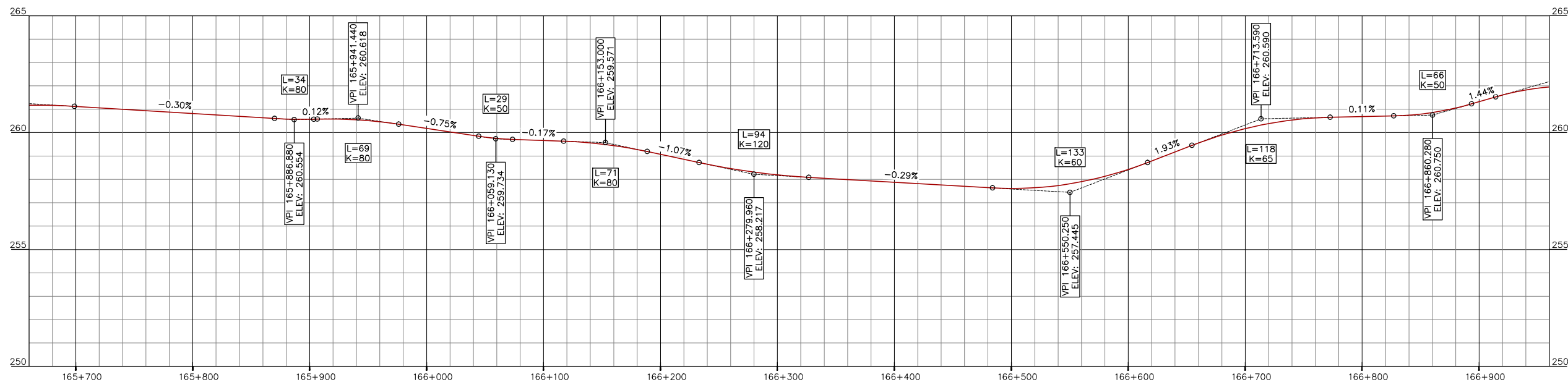
DITCHING REQUIRED

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No.	Date/Date	Description/Description	Drawn by Dessiné par Approved Approuvé		
Revision / Revision					
<div><div>050100150200</div><div>METERS</div></div>					
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur			
<div><div></div><div>WSP</div></div>		<div><div><div></div><div>Public Works and Government Services Canada</div><div>Client Services Team Southern Alberta Operations Branch</div></div><div><div>Travaux publics et Services gouvernementaux Canada</div><div>Le Client Entretien l'Équipe Alberta Méridional Branches d'Opérations</div></div></div>			
<div>Canada</div>					
Client/client		<div><div><div></div><div>Parks Canada Agency</div><div>Western and Northern Region</div></div><div><div>L'Agence Parcs Canada</div><div>Ouest et Nord du Canada</div></div></div>			
<div>Project title/Titre du projet</div> <div>HIGHWAY 5 ROAD REHABILITATION PHASE 2 – SEGMENT 2</div> <div>WOOD BUFFALO NATIONAL PARK</div>					
<div>Drawing title/Titre du dessin</div> <div>PLAN–PROFILE</div>					
Surveyed by/Arpenté par		Date/Date			
Designed by/Concept par		Scale/Échelle			
PWGSC Project Manager/Administrateur de Projets TPSGC					
Client Acceptance/Acceptation du client		Approved by/Approuvé par			
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC			
Project No./No. du projet		Sheet No./No. de la feuille			
Drawing Reference No./No. de référence du dessin		123			



REPLACEMENT ROAD CULVERT TABLE								
STATION @ C	SKEW ANGLE	L _s (m)	R _s (m)	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	LEFT INVERT (m)	RIGHT INVERT (m)
166+570.5	90.0°	10.98	11.02	22.0	1200	0.91	255.80	256.00

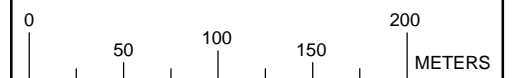


LEGEND

<u>EXISTING</u>	
	SHOULDER OF HIGHWAY
	SHOULDER OF GRAVEL ROAD
	DITCH LINE
	TREE LINE
	WATER
	ROAD CULVERT
	ACCESS CULVERT INLET/OUTLET
	TOWER LOCATION
	ANCHOR LOCATION
	DITCHING REQUIRED

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Consultant's Name Nom de l'expert-conseil	
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Eng. Stamp
Sceau de l'ingénieur

Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

Client Services Team
Southern Alberta
Operations Branch

Le Client Entretien l'Équipe
Alberta Méridional
Branche d'Opérations

Canada

Client/client



 Parks Canada
Agency

L'Agence Parcs
Canada

Western and Northern Region

Ouest et Nord
du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 - SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

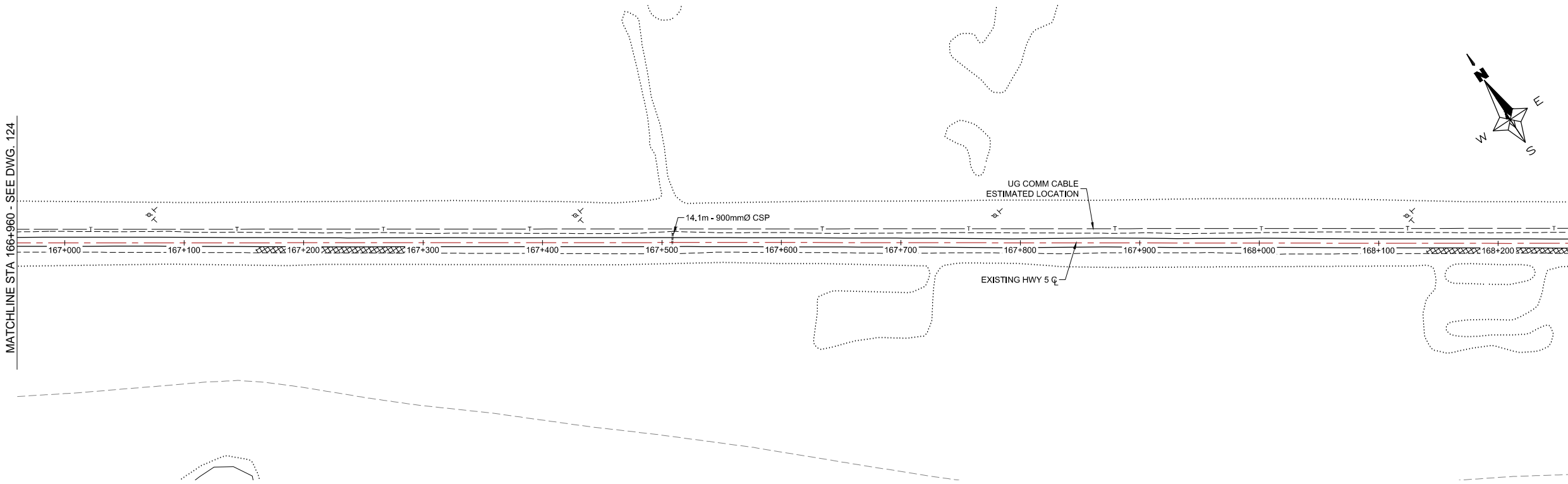
PLAN-PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par WSP CANADA INC.	Date/Date 2017-01-20
Designed by/Concept par WSP CANADA INC.	Reviewed by/Revisé par	Scale/Échelle 1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC	
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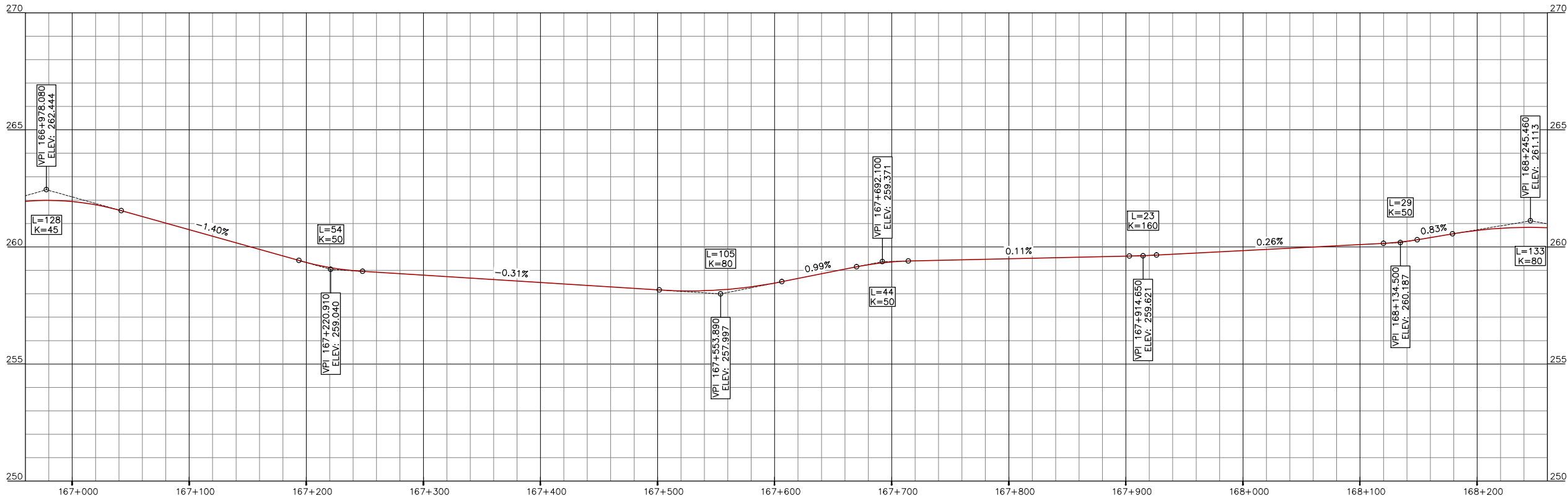
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PMSC Project Manager/Administrateur de Projets TPSC	
Project No./No. du projet	Asset No./No. du bien	Sheet No./No. de la feuille	
161-11147-01		124	
Drawing Reference No./No. de référence du dessin			

MATCHLINE STA 166+960 - SEE DWG. 124



MATCHLINE STA 168+260 - SEE DWG. 126

ROAD CULVERT EXTENSION TABLE					
STATION @ CL	SIDE TO EXTEND	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	INVERT (m)
167+507.6	RIGHT	3.0	900	-0.80	256.67



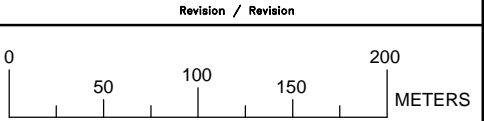
LEGEND

EXISTING

- SHOULDER OF HIGHWAY
- SHOULDER OF GRAVEL ROAD
- DITCH LINE
- TREE LINE
- WATER
- ROAD CULVERT
- ACCESS CULVERT INLET/OUTLET
- TOWER LOCATION
- ANCHOR LOCATION
- DITCHING REQUIRED

INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES IS COMPILED FROM SOME RECORD DRAWINGS AND SOME SURVEYS, AND MAY NOT BE COMPLETE OR FULLY ACCURATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AND ADVISE THE DEPARTMENTAL REPRESENTATIVE OF ANY POTENTIAL CONFLICTS.

1	17-01-20	ISSUED FOR TENDER	CH	HW
0	17-01-12	ISSUED FOR REVIEW	CH	HW
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé



Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Client Services Team
Southern Alberta Operations Branch

Le Client Entretien l'Équipe Alberta Méridional Branche d'Opérations

Canada

Client/client

Parks Canada Agency

L'Agence Parcs Canada

Western and Northern Region

Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

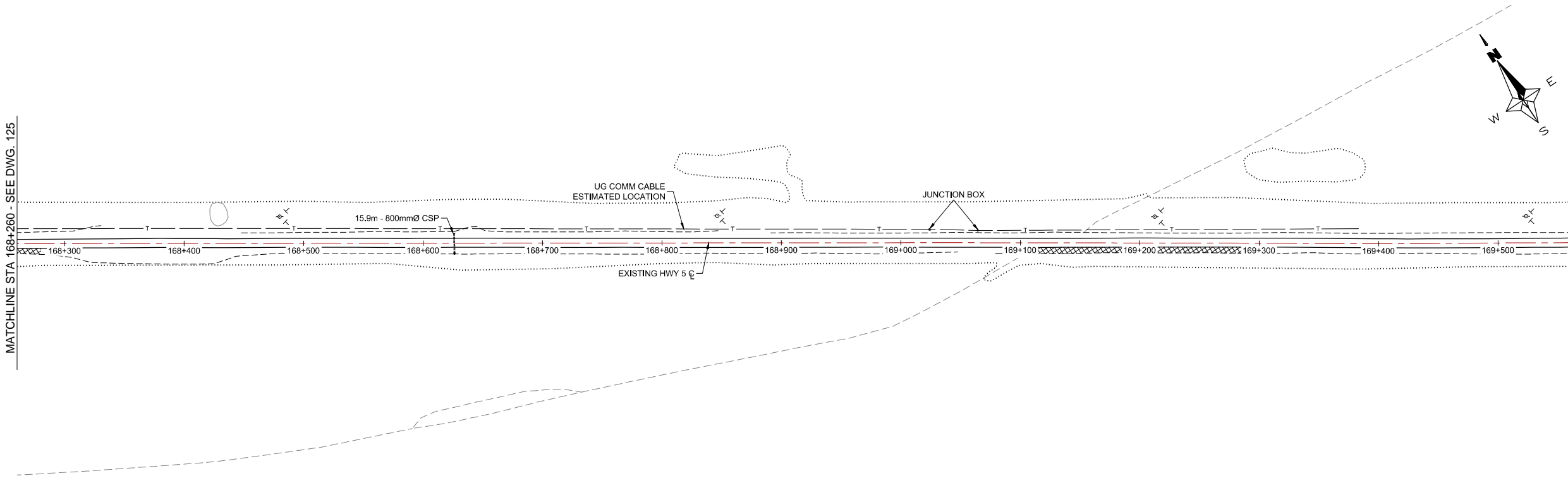
PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

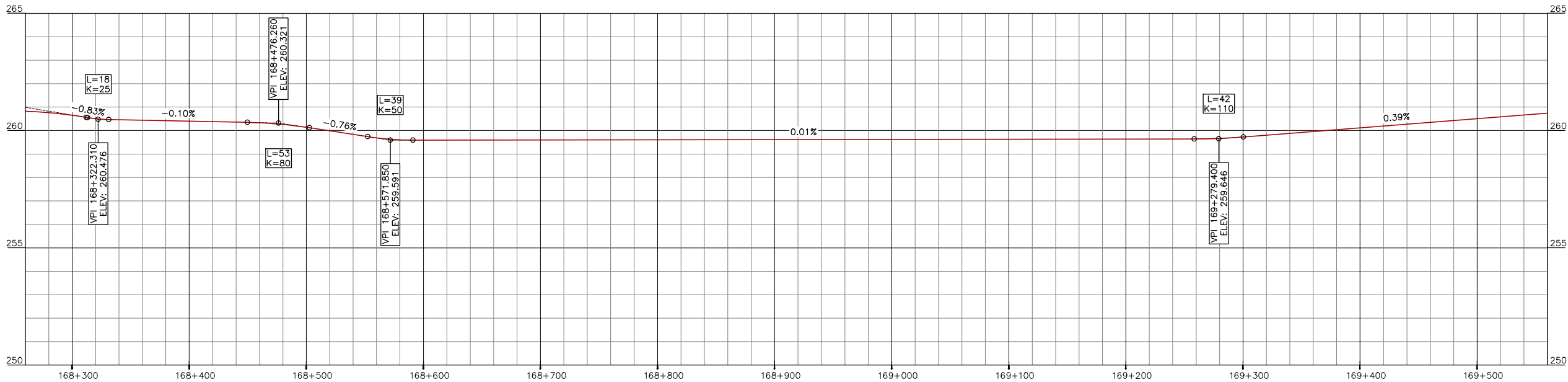
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille	
161-11147-01		125	
Drawing Reference No./No. de référence du dessin			

MATCHLINE STA 168+260 - SEE DWG. 125



MATCHLINE STA 169+560 - SEE DWG. 127

ROAD CULVERT EXTENSION TABLE					
STATION @ CL	SIDE TO EXTEND	LENGTH (m)	DIAMETER (mm)	SLOPE (%)	INVERT (m)
168+625.7	RIGHT	2.0	800	0.60	257.87



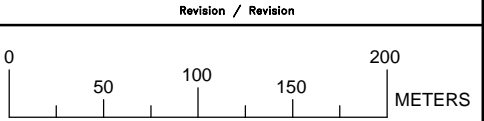
LEGEND

EXISTING

- SHOULDER OF HIGHWAY
- SHOULDER OF GRAVEL ROAD
- DITCH LINE
- TREE LINE
- WATER
- ROAD CULVERT
- ACCESS CULVERT INLET/OUTLET
- TOWER LOCATION
- ANCHOR LOCATION
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No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé
1	17-01-20	ISSUED FOR TENDER	CH	HW
0	17-01-12	ISSUED FOR REVIEW	CH	HW



Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Public Works and
Government Services
Canada

Client Services Team
Southern Alberta
Operations Branch

Travaux publics et
Services gouvernementaux
Canada

Le Client Entretien l'Équipe
Alberta Méridional
Branche d'Opérations

Canada

Client/client

Parks Canada
Agency

L'Agence Parcs
Canada

Western and
Northern Region

Ouest et Nord
du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

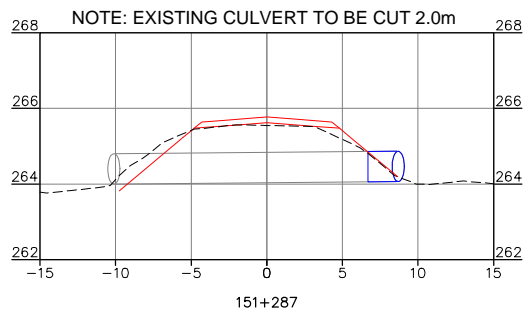
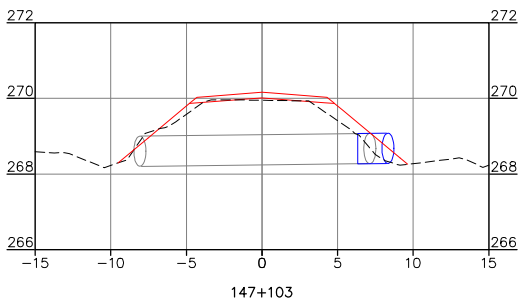
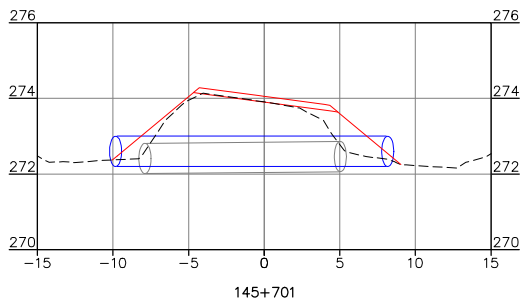
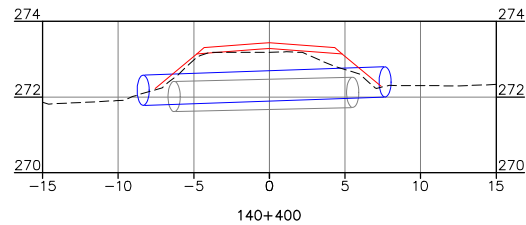
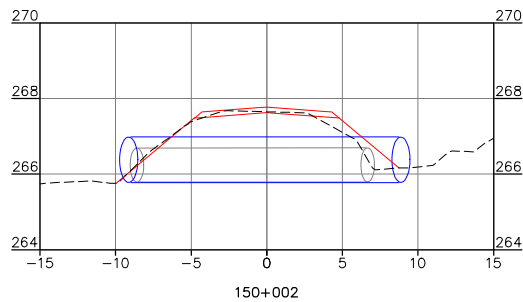
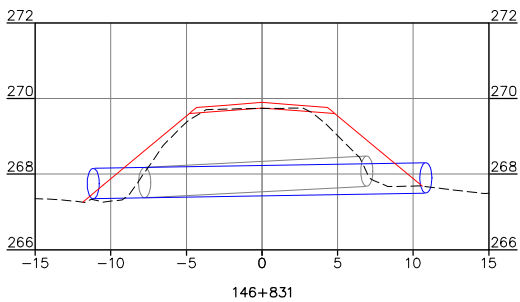
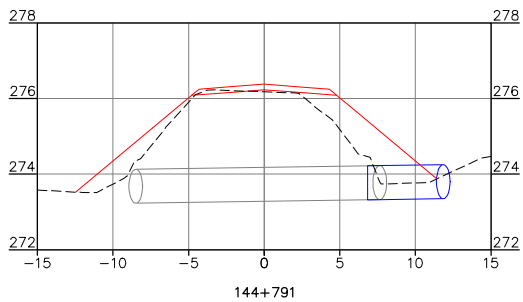
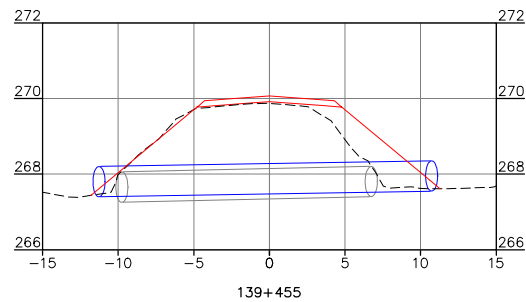
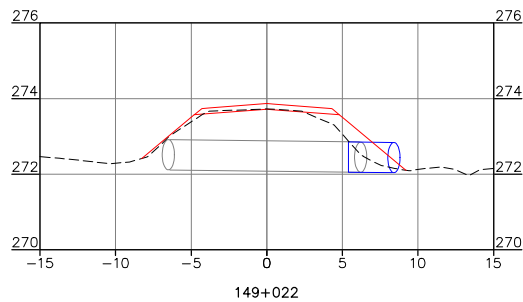
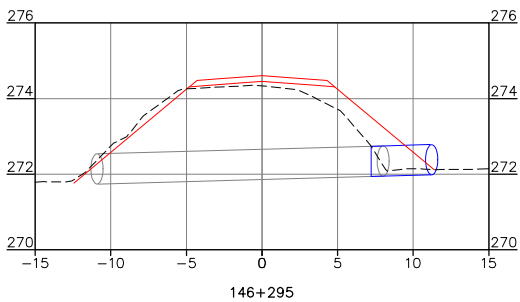
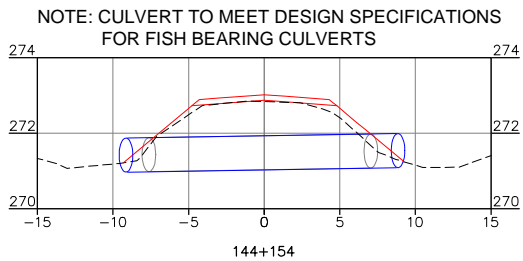
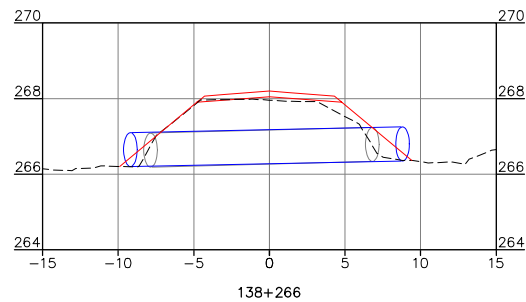
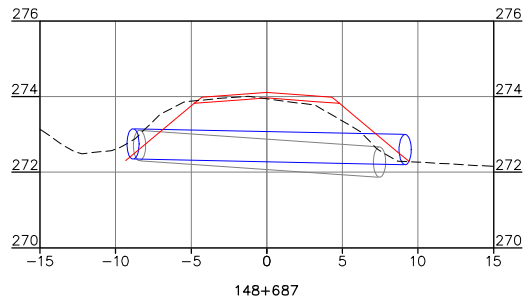
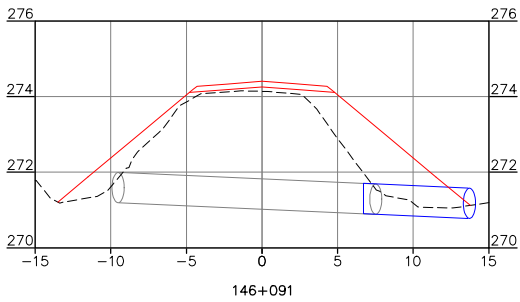
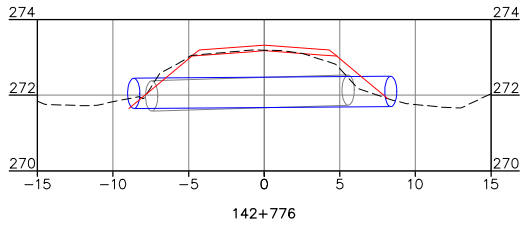
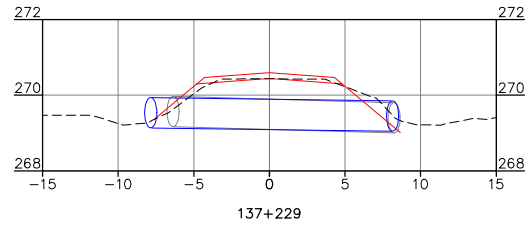
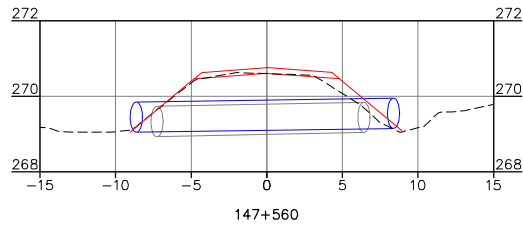
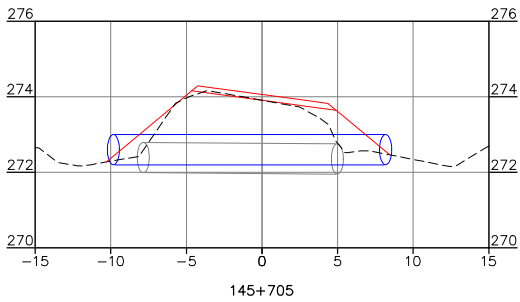
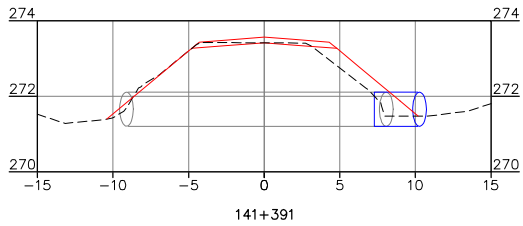
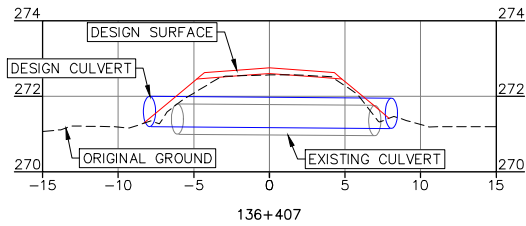
PLAN–PROFILE

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
WSP CANADA INC.	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:2000

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Park Responsible Officer/Agent Responsable	PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./ No. de la feuille
161-11147-01		126
Drawing Reference No./No. de référence du dessin		



NOTE: APPLICABLE END SECTIONS NOT SHOWN

THE SURVEY AND LAYOUT OF THE CSP CULVERTS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DESIGN DIMENSIONS AND TOLERANCES ARE TO BE VERIFIED FOR CONFORMITY WITH FIELD CONDITIONS BY THE CONTRACTOR PRIOR TO THE START OF INSTALLATION. THE CONTRACTOR MUST OBTAIN THE DEPARTMENTAL REPRESENTATIVE'S APPROVAL OF THE TRENCH LINE AND DEPTH PRIOR TO PLACING BEDDING MATERIAL OR PIPE.

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1	17-01-20	ISSUED FOR TENDER	CH	HW
0	17-01-12	ISSUED FOR REVIEW	CH	HW
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

Consultant's Name
Nom de l'expert-conseil



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

Client Services Team
Southern Alberta
Operations Branch

Le Client Entretien l'Équipe
Alberta Méridional
Branche d'Opérations

Canada

Client/client
Parks Canada
Agency

L'Agence Parcs
Canada

Western and
Northern Region

Ouest et Nord
du Canada

Project title/Titre du projet
HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2
WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin
REPLACEMENT AND EXTENSION
CULVERT CROSS SECTIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
WSP CANADA INC.		1:250 (H) 1:100 (V)

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Park Responsible Officer/Agent Responsable

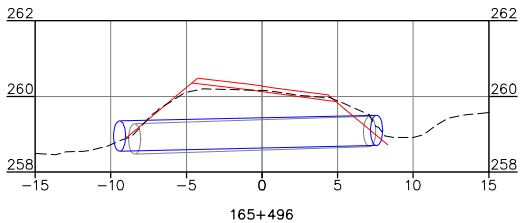
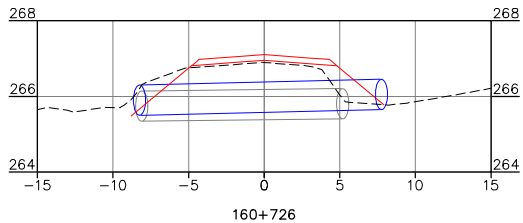
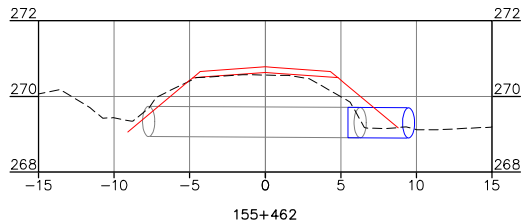
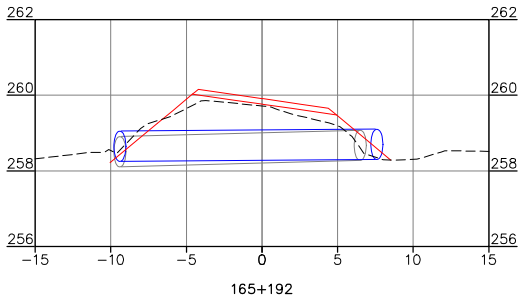
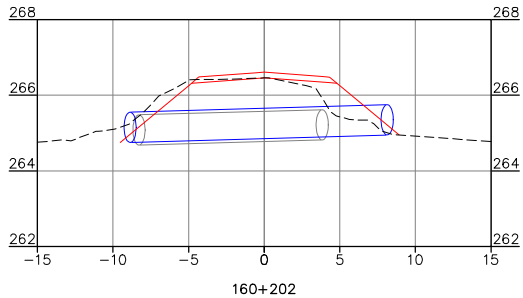
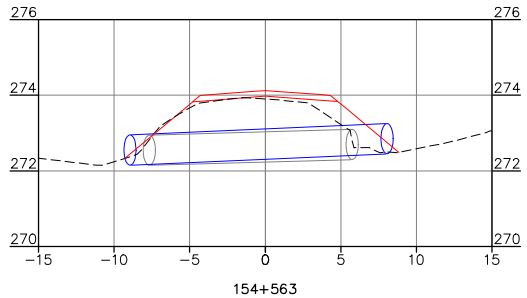
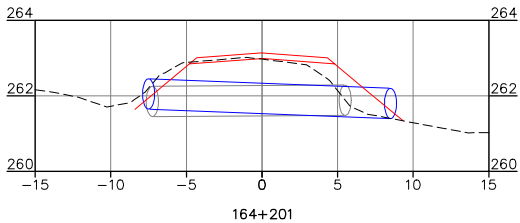
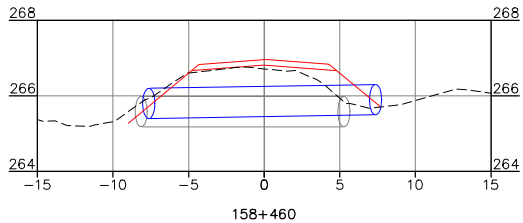
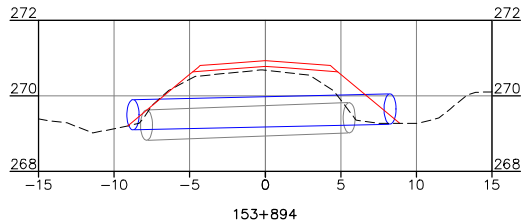
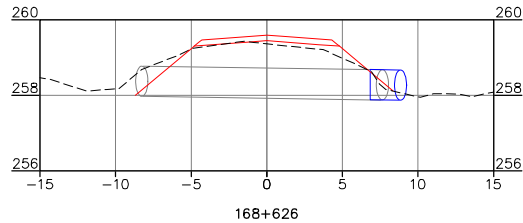
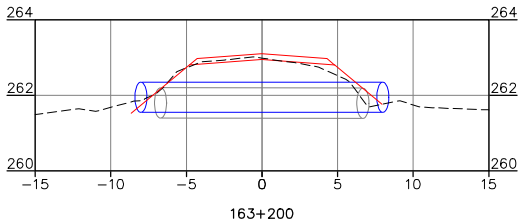
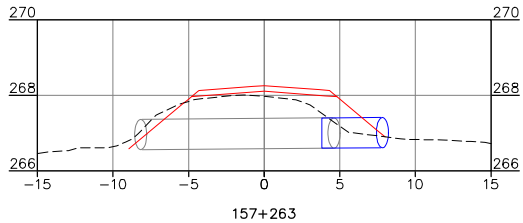
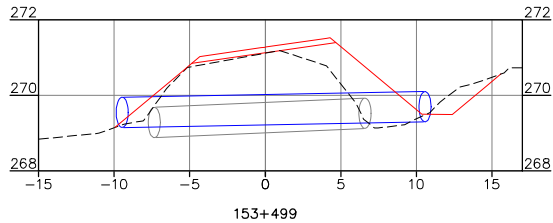
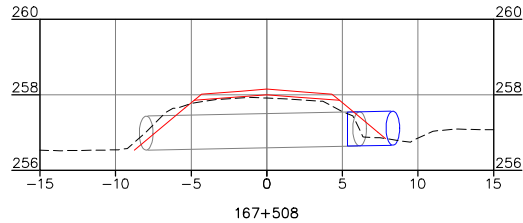
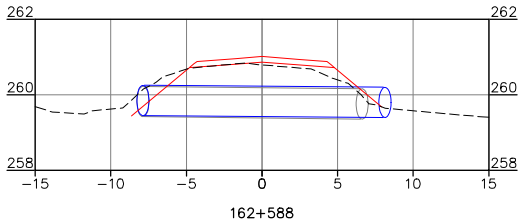
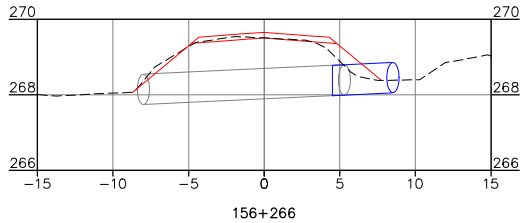
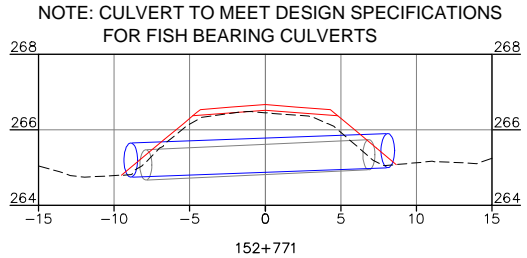
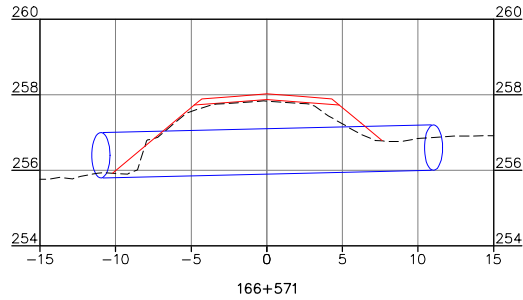
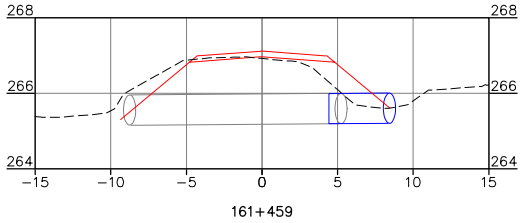
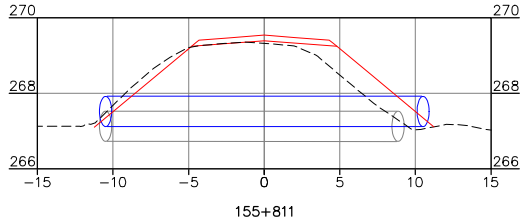
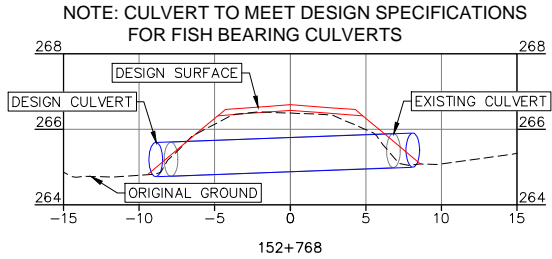
PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet
161-11147-01

Asset No./No. du-bien

Sheet No./
No. de la feuille
201

Drawing Reference No./No. de référence du dessin



NOTE: APPLICABLE END SECTIONS NOT SHOWN

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1	17-01-20	ISSUED FOR TENDER	CH HW
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Revision / Revision

Consultant's Name
Nom de l'expert-conseil



Eng. Stamp
Sceau de l'ingénieur

Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

Client Services Team
Southern Alberta
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Le Client Entretien l'Équipe
Alberta Méridional
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Client/client
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L'Agence Parcs
Canada

Western and
Northern Region

Ouest et Nord
du Canada

Project title/Titre du projet
HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2
WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin
REPLACEMENT AND EXTENSION
CULVERT CROSS SECTIONS

Surveyed by/Arpenté par
Designed by/Concept par
WSP CANADA INC.

Drawn by/Dessiné par
Reviewed by/Revisé par
WSP CANADA INC.

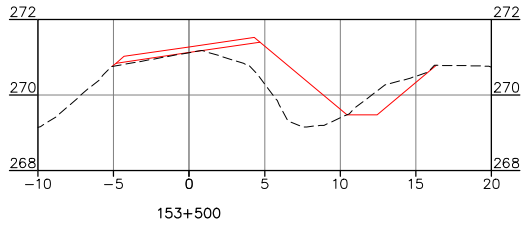
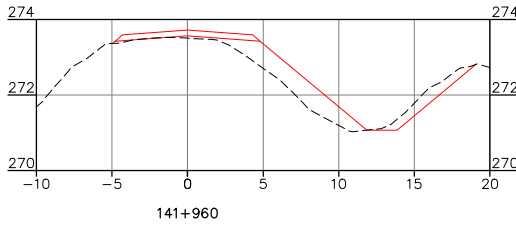
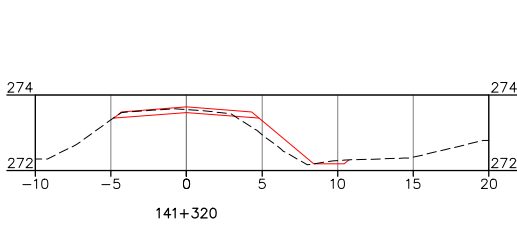
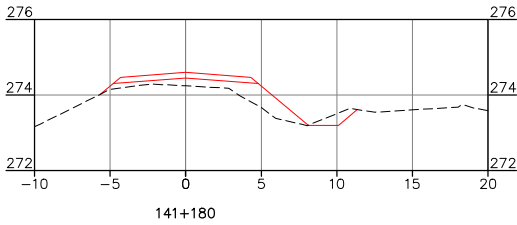
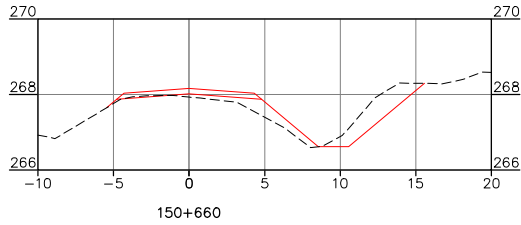
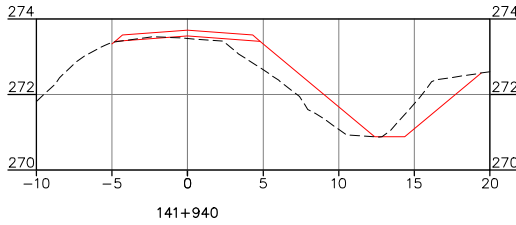
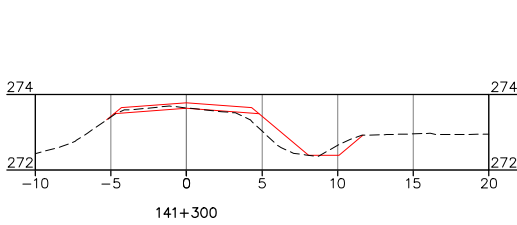
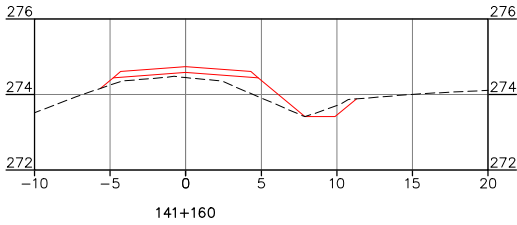
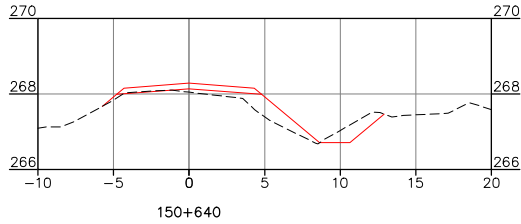
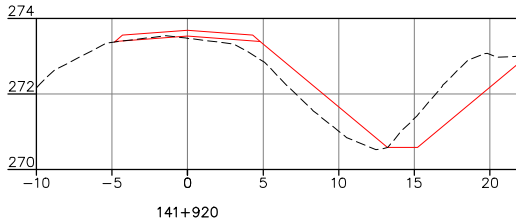
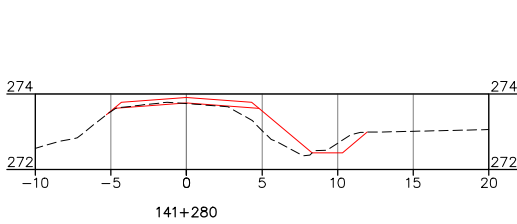
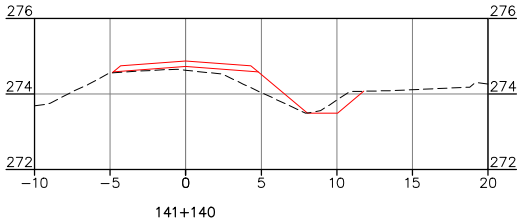
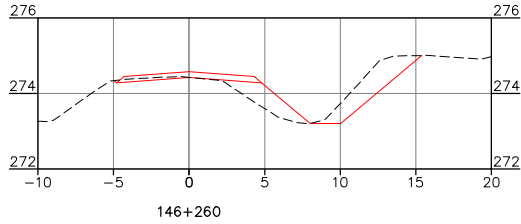
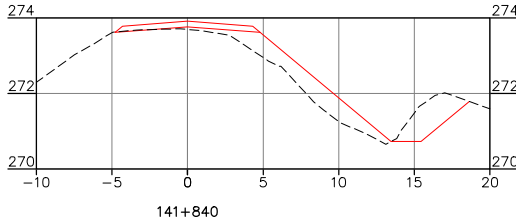
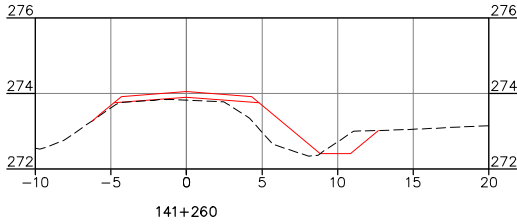
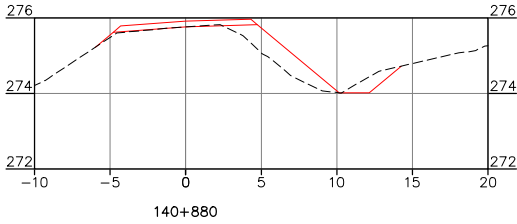
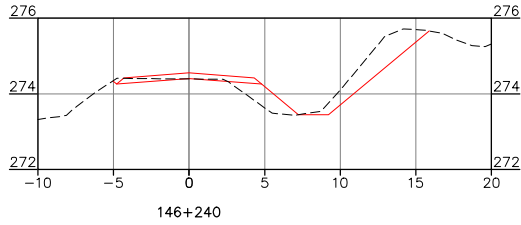
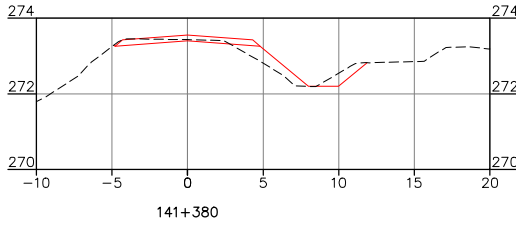
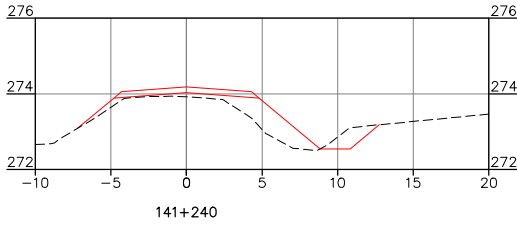
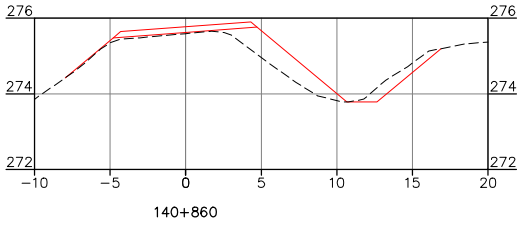
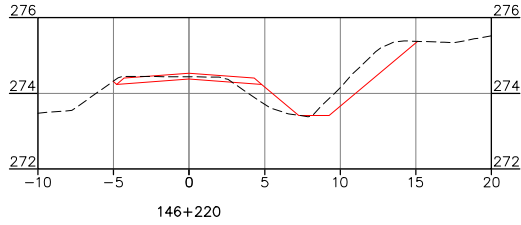
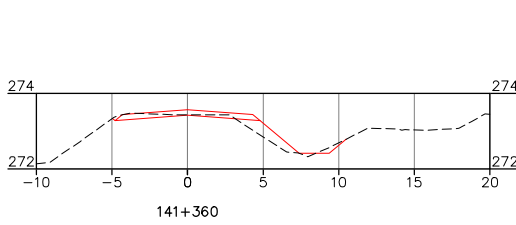
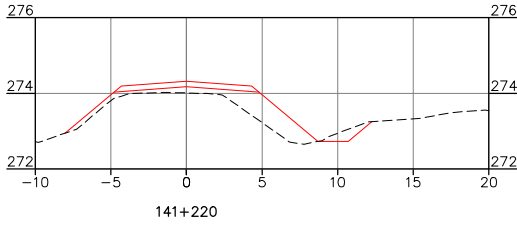
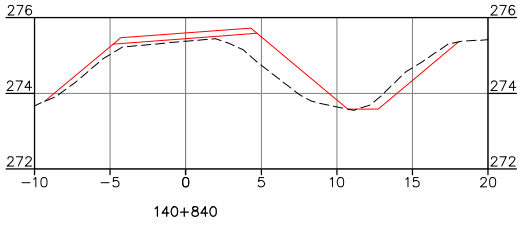
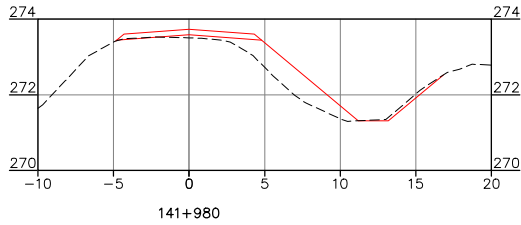
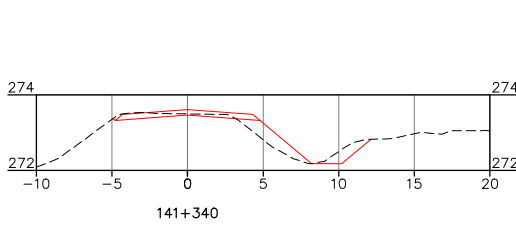
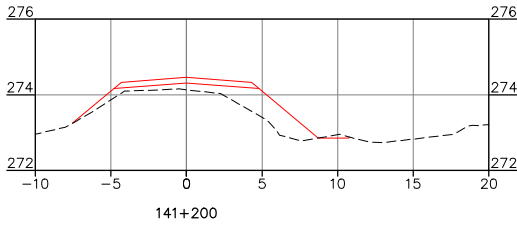
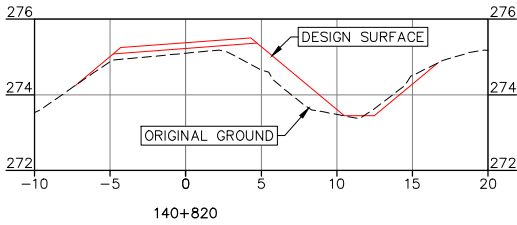
Date/Date
2017-01-20
Scale/Échelle
1:250 (H)
1:100 (V)

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client
Park Responsible Officer/Agent Responsable

Approved by/Approuvé par
PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet
161-11147-01
Asset No./No. du bien
Sheet No./
No. de la feuille
202
Drawing Reference No./No. de référence du dessin



THE SURVEY AND LAYOUT OF THE DITCHING IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DESIGN DIMENSIONS AND TOLERANCES ARE TO BE VERIFIED FOR THE CONFORMITY WITH FIELD CONDITIONS BY THE CONTRACTOR PRIOR TO EXCAVATION. THE CONTRACTOR MUST OBTAIN THE DEPARTMENTAL REPRESENTATIVE'S APPROVAL OF THE DITCHING LIMITS PRIOR TO EXCAVATION.

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No.	Date/Date	Description/Description	Drawn by Dessiné par Approved Approuvé
Revision / Revision			

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
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Client Services Team
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Ouest et Nord
du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

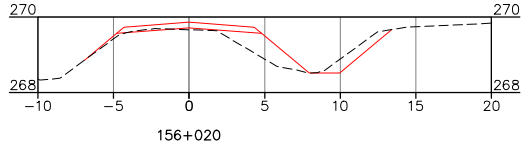
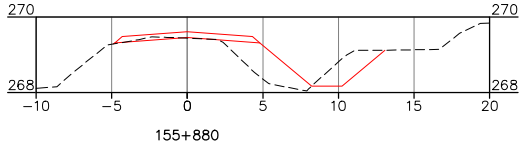
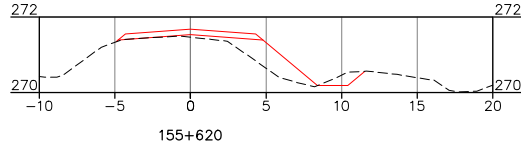
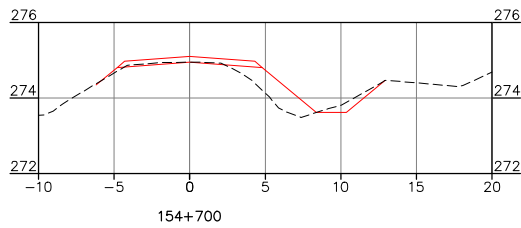
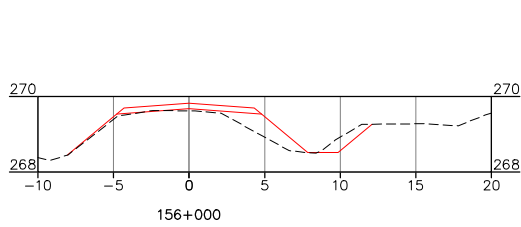
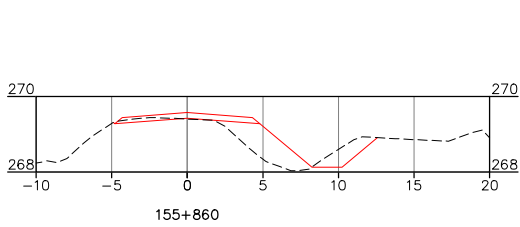
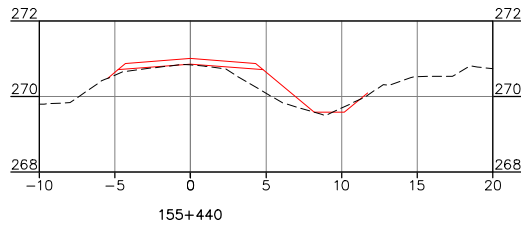
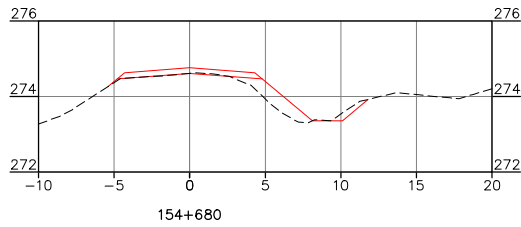
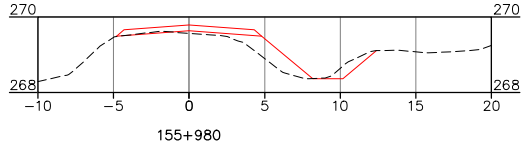
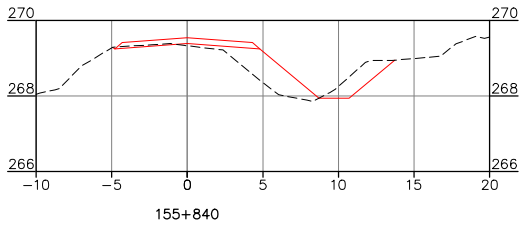
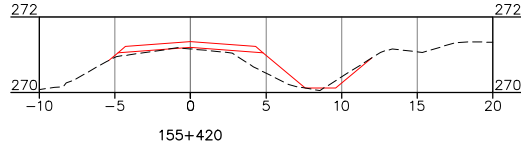
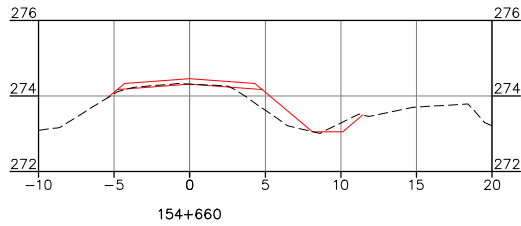
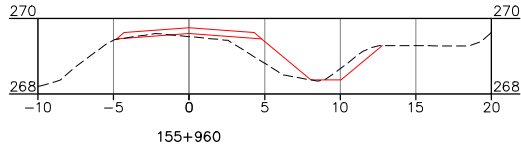
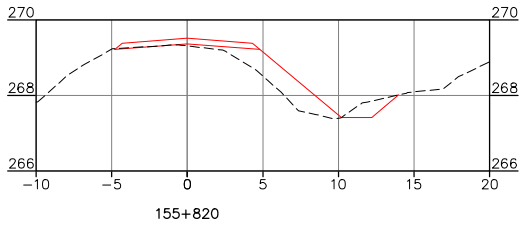
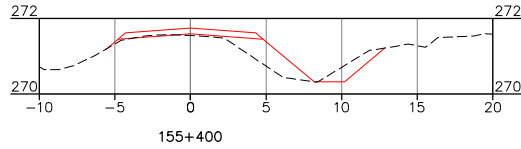
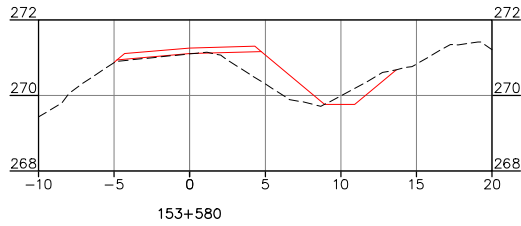
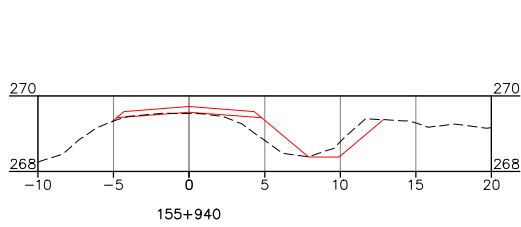
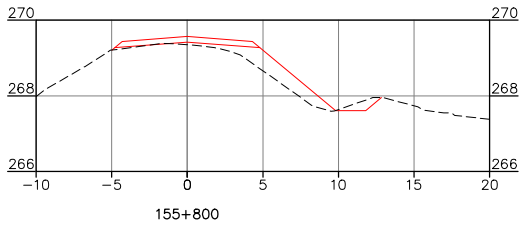
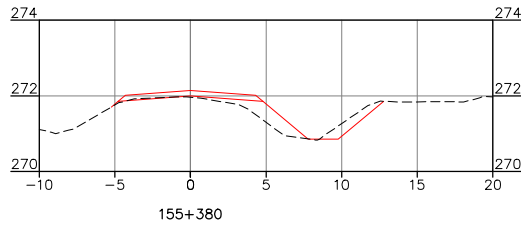
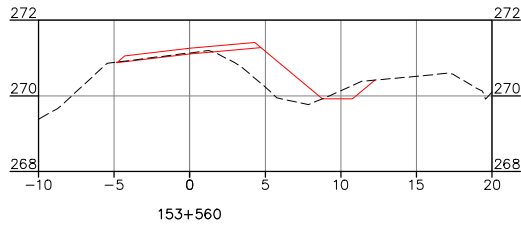
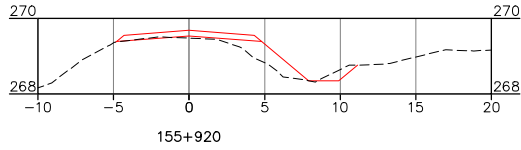
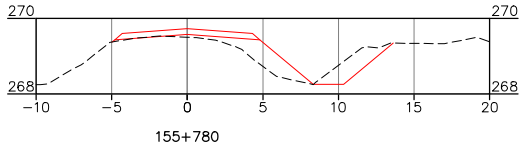
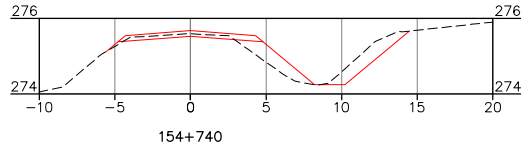
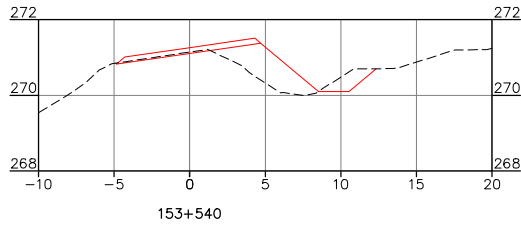
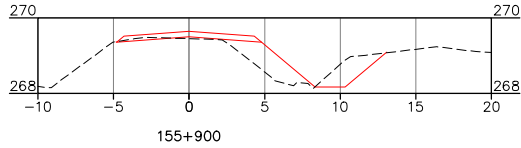
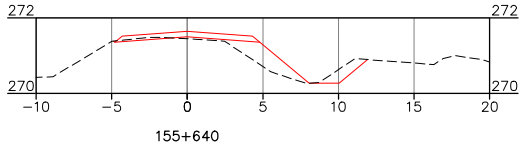
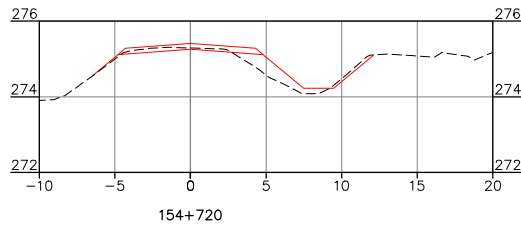
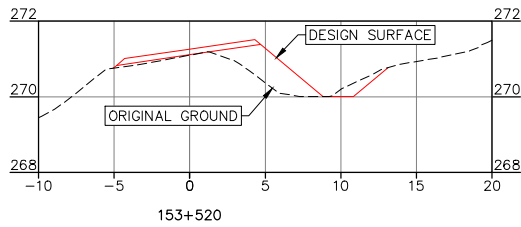
REQUIRED DITCHING
CROSS SECTIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par WSP CANADA INC.	Date/Date 2017-01-20
Designed by/Concept par WSP CANADA INC.	Reviewed by/Revisé par	Scale/Échelle 1:250 (H) 1:100 (V)

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Park Responsible Officer/Agent Responsable	PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet 161-11147-01	Asset No./No. du-bien	Sheet No./ No. de la feuille 301
Drawing Reference No./No. de référence du dessin		



THE SURVEY AND LAYOUT OF THE DITCHING IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DESIGN DIMENSIONS AND TOLERANCES ARE TO BE VERIFIED FOR THE CONFORMITY WITH FIELD CONDITIONS BY THE CONTRACTOR PRIOR TO EXCAVATION. THE CONTRACTOR MUST OBTAIN THE DEPARTMENTAL REPRESENTATIVE'S APPROVAL OF THE DITCHING LIMITS PRIOR TO EXCAVATION.

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Revision / Revision

Consultant's Name
Nom de l'expert-conseil



Public Works and
Government Services
Canada

Travaux publics et
Services gouvernementaux
Canada

Client Services Team
Southern Alberta
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Le Client Entretien l'Équipe
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Western and
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Ouest et Nord
du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

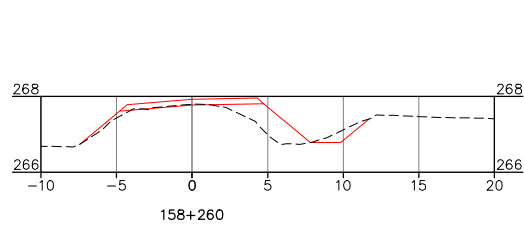
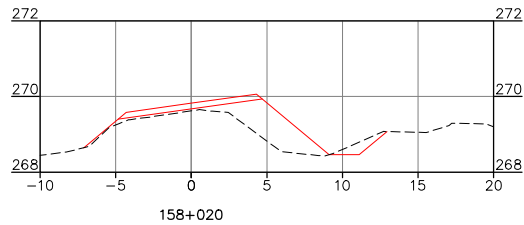
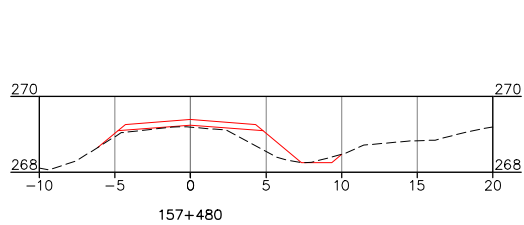
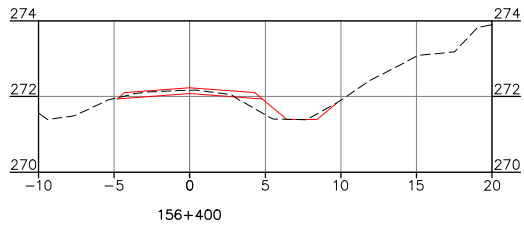
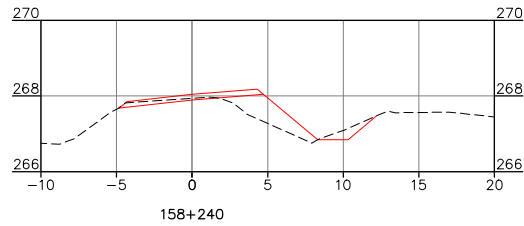
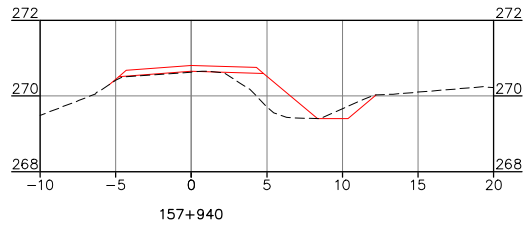
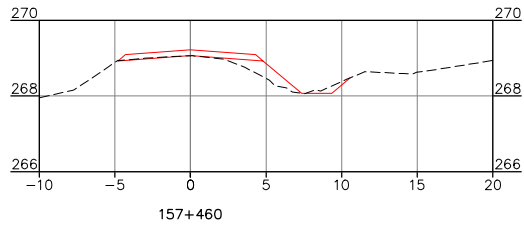
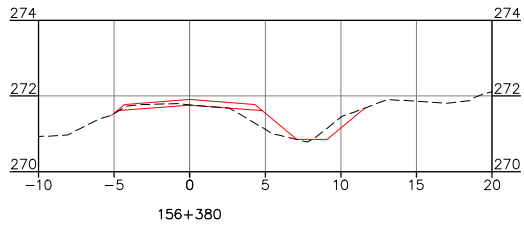
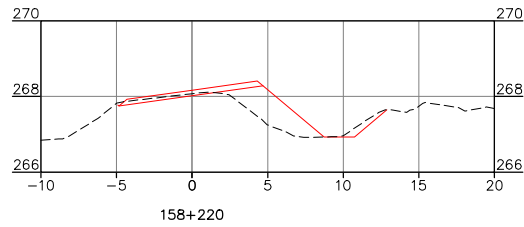
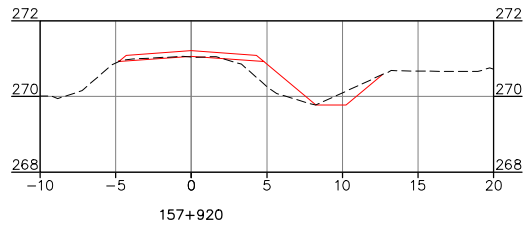
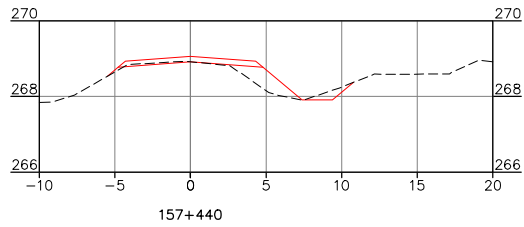
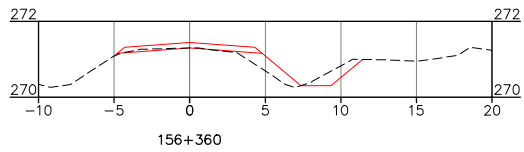
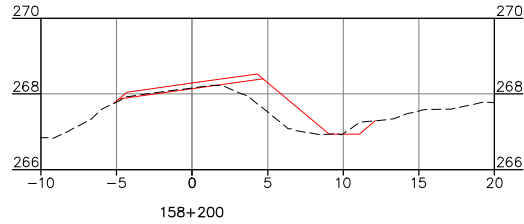
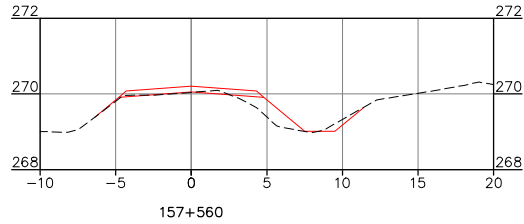
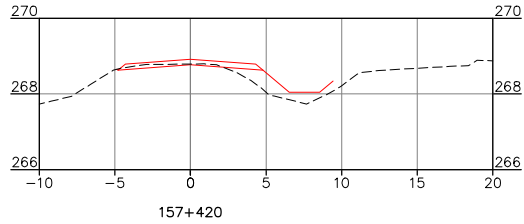
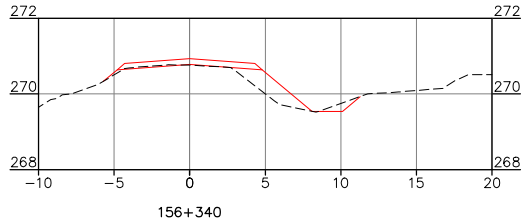
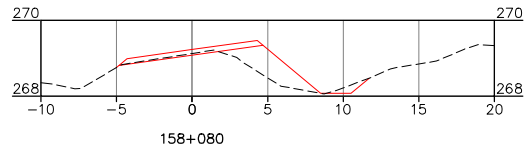
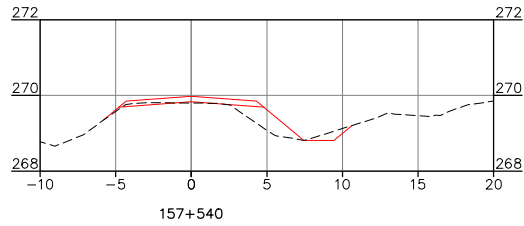
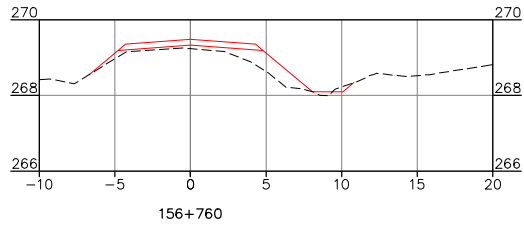
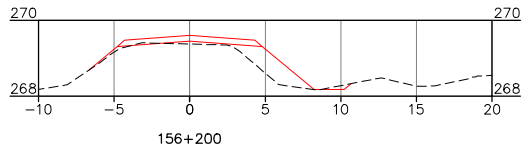
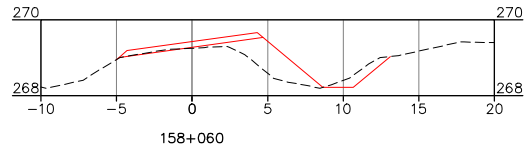
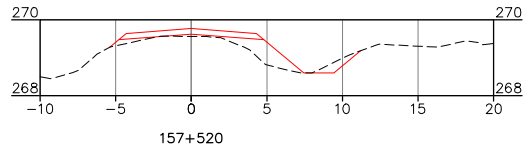
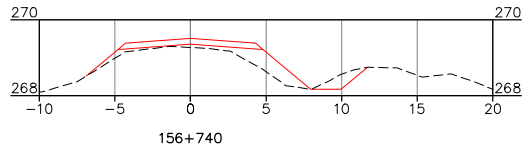
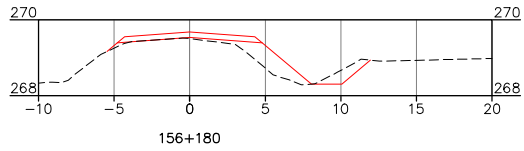
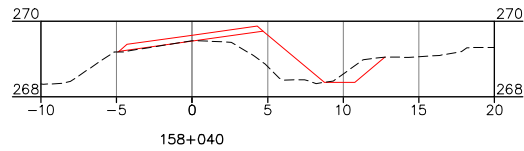
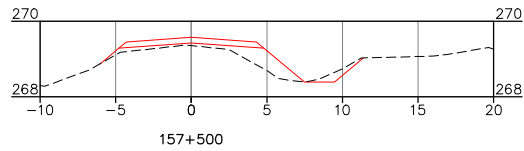
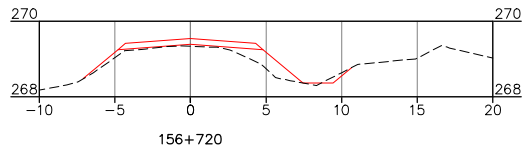
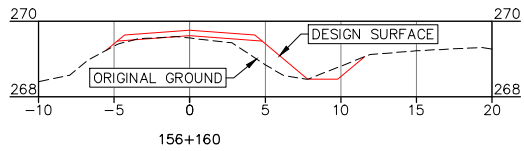
REQUIRED DITCHING
CROSS SECTIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par WSP CANADA INC.	Date/Date 2017-01-20
Designed by/Concept par WSP CANADA INC.	Reviewed by/Revisé par	Scale/Échelle 1:250 (H) 1:100 (V)

PWGCSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Park Responsible Officer/Agent Responsable	PWGCSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet 161-11147-01	Asset No./No. du-bien	Sheet No./ No. de la feuille 302
Drawing Reference No./No. de référence du dessin		



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Eng. Stamp
Sceau de l'ingénieur

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Canada

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Ouest et Nord
du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

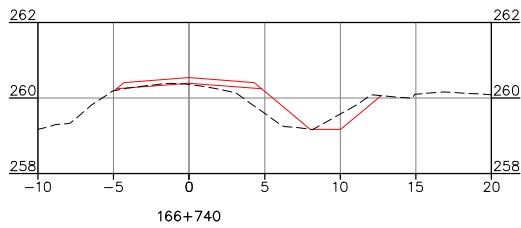
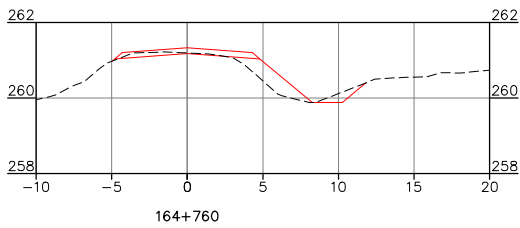
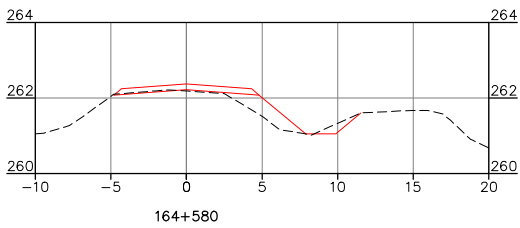
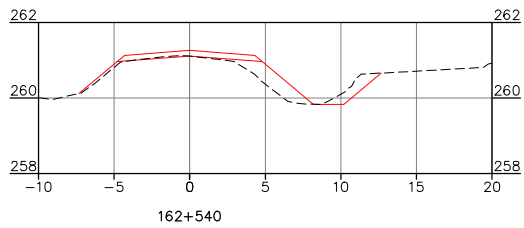
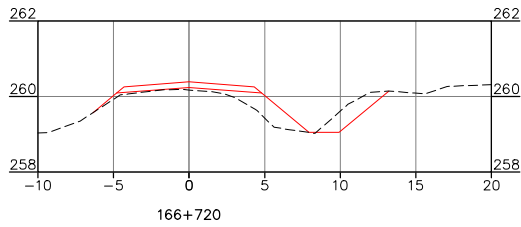
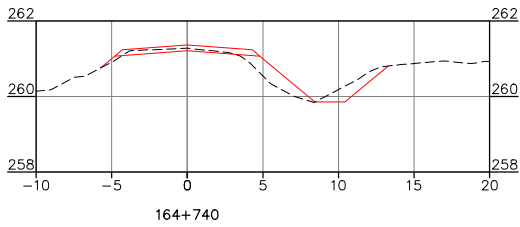
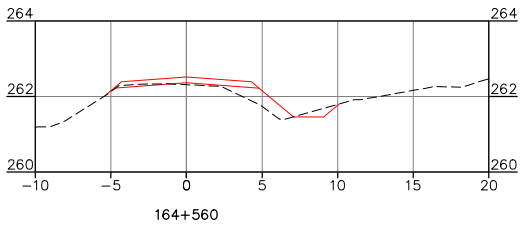
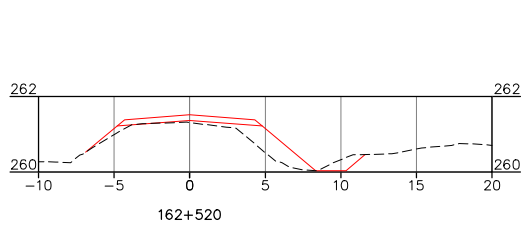
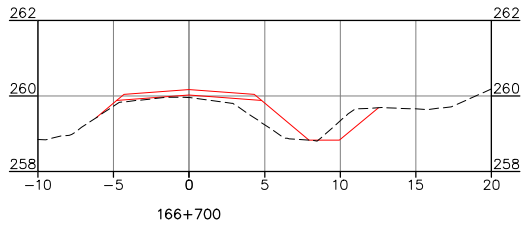
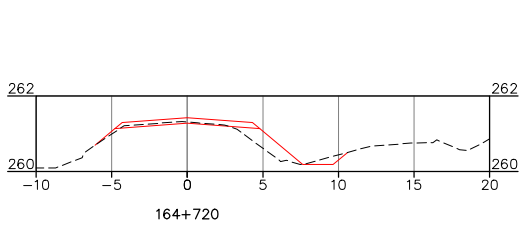
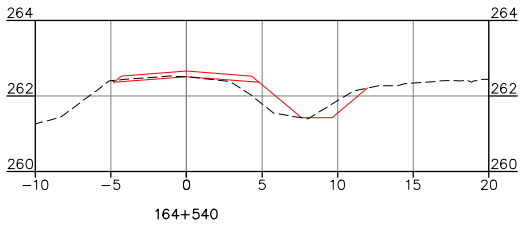
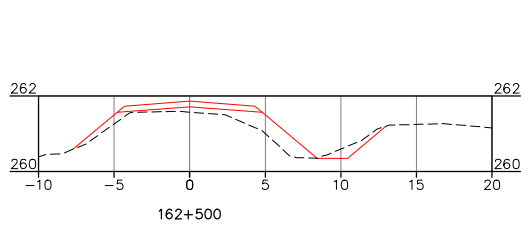
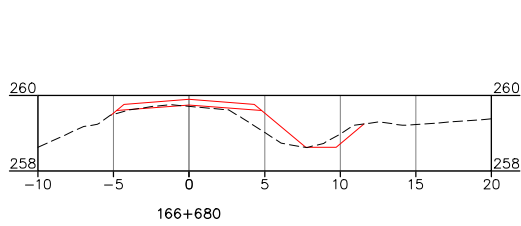
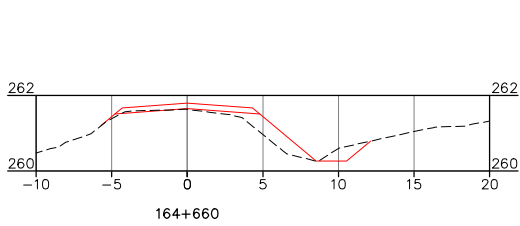
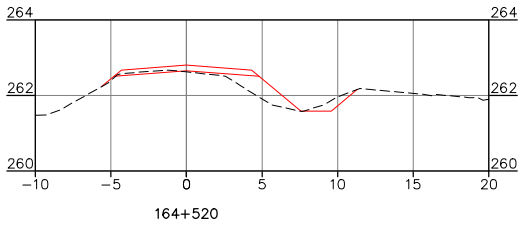
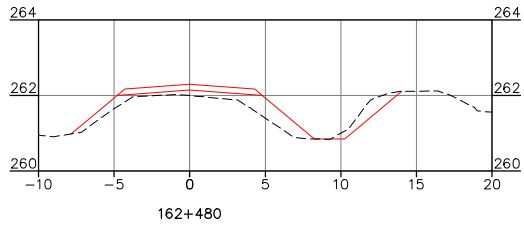
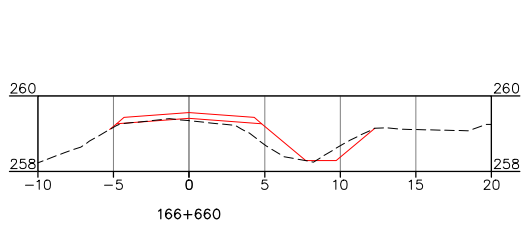
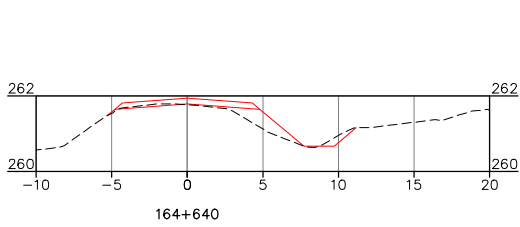
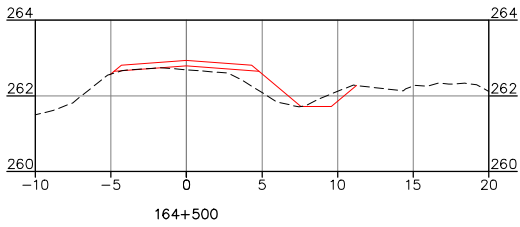
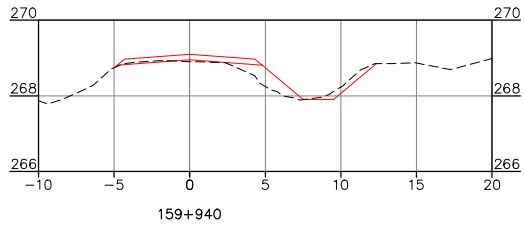
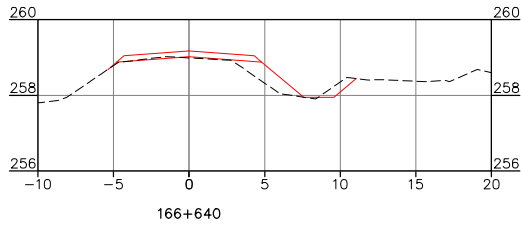
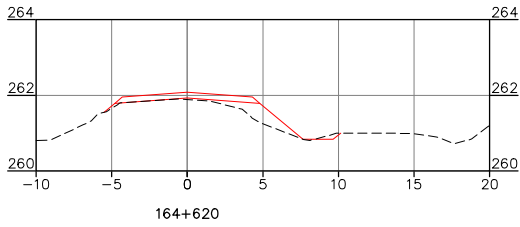
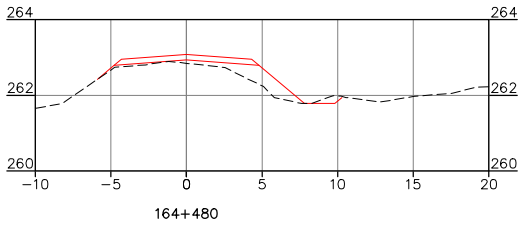
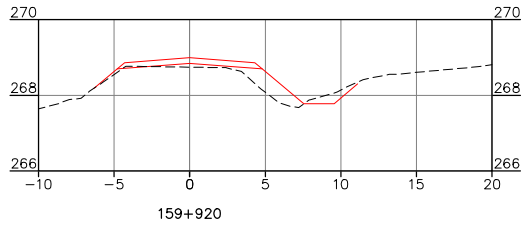
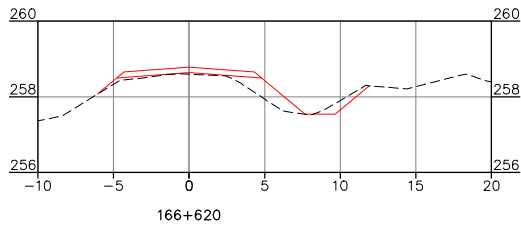
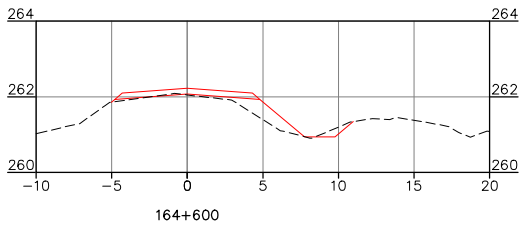
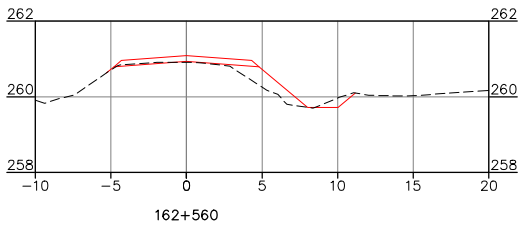
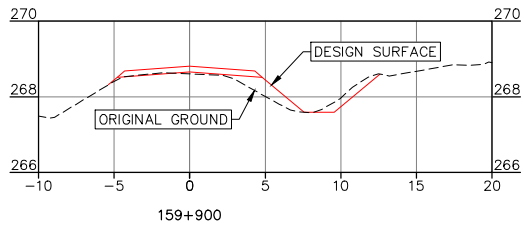
WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

REQUIRED DITCHING
CROSS SECTIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par WSP CANADA INC.	Date/Date 2017-01-20
Designed by/Concept par WSP CANADA INC.	Reviewed by/Revisé par	Scale/Echelle 1:250 (H) 1:100 (V)

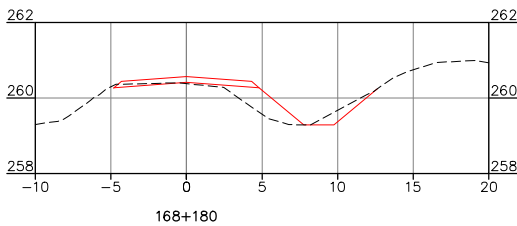
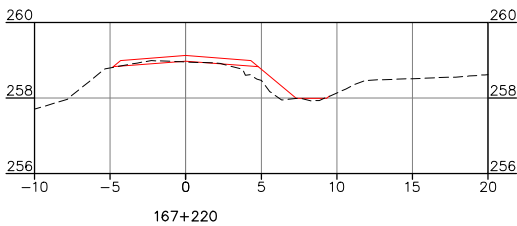
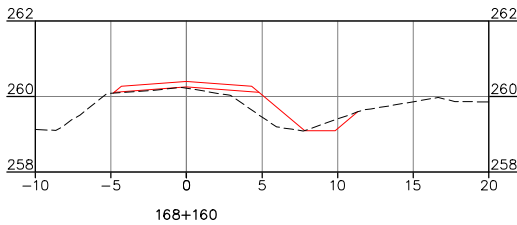
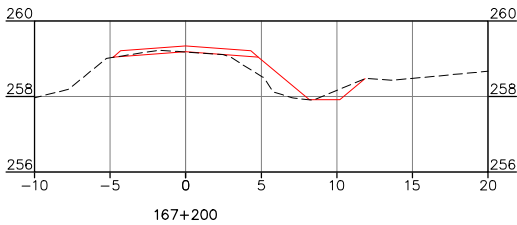
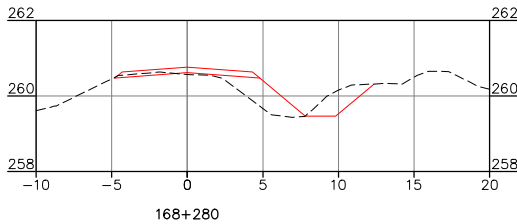
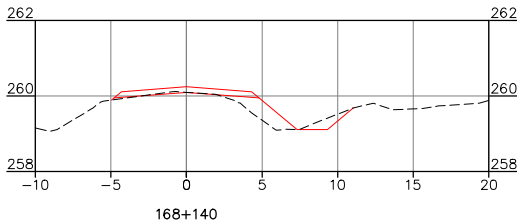
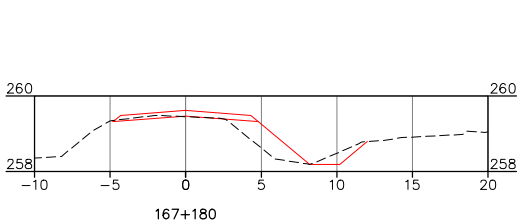
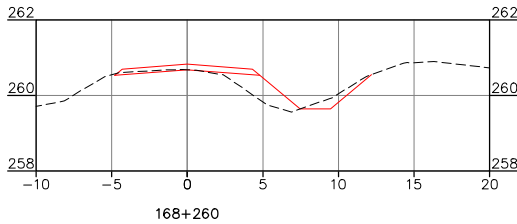
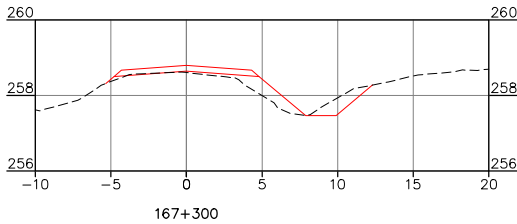
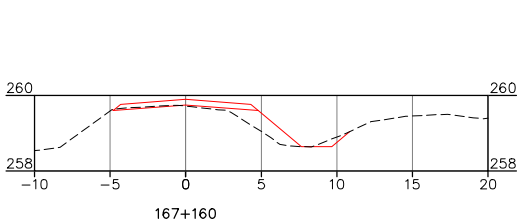
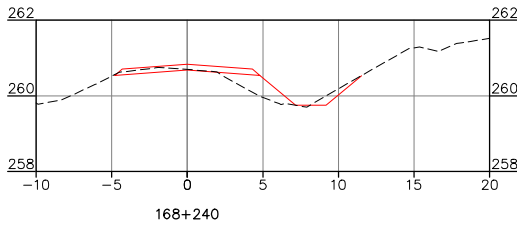
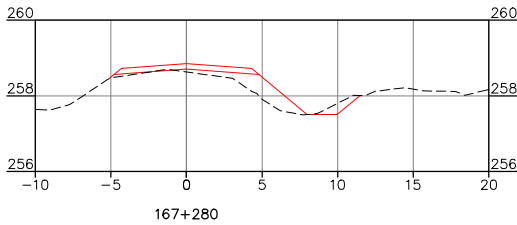
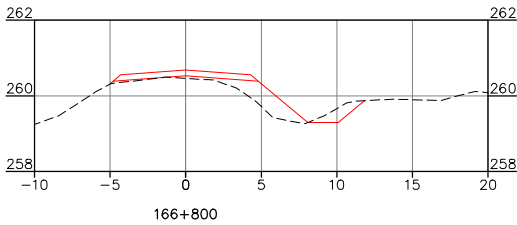
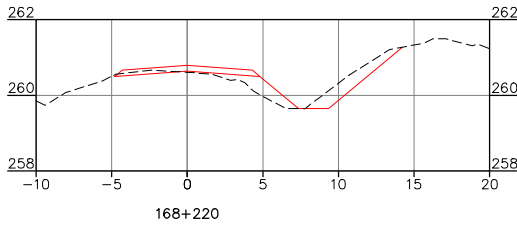
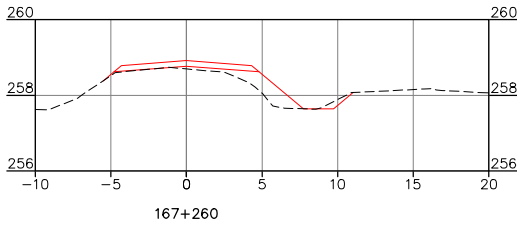
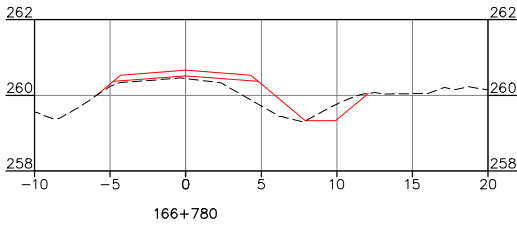
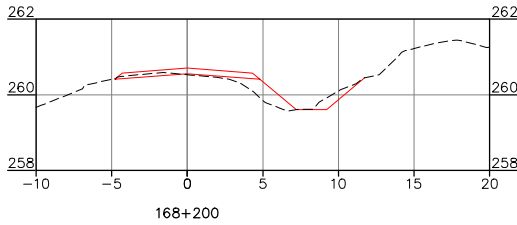
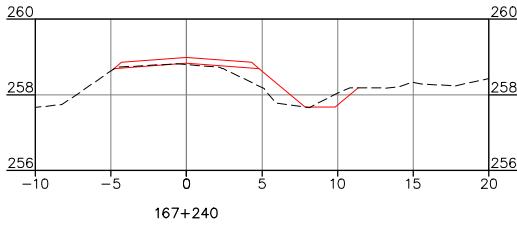
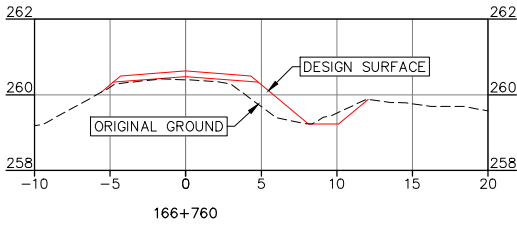
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC
Project No./No. du projet 161-11147-01	Asset No./No. du-bien	Sheet No./ No. de la feuille 303
Drawing Reference No./No. de référence du dessin		



THE SURVEY AND LAYOUT OF THE DITCHING IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DESIGN DIMENSIONS AND TOLERANCES ARE TO BE VERIFIED FOR THE CONFORMITY WITH FIELD CONDITIONS BY THE CONTRACTOR PRIOR TO EXCAVATION. THE CONTRACTOR MUST OBTAIN THE DEPARTMENTAL REPRESENTATIVE'S APPROVAL OF THE DITCHING LIMITS PRIOR TO EXCAVATION.

INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES IS COMPILED FROM SOME RECORD DRAWINGS AND SOME SURVEYS, AND MAY NOT BE COMPLETE OR FULLY ACCURATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AND ADVISE THE DEPARTMENTAL REPRESENTATIVE OF ANY POTENTIAL CONFLICTS.

1	17-01-20	ISSUED FOR TENDER	CH HW
0	17-01-12	ISSUED FOR REVIEW	CH HW
No.	Date/Date	Description/Description	Drawn by Dessiné par Approved Approuvé
Revision / Revision			
Consultant's Name Nom de l'expert-conseil			
		Eng. Stamp Sceau de l'ingénieur	
		Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada	
Client Services Team Southern Alberta Operations Branch		Le Client Entretien l'Équipe Alberta Méridional Branche d'Opérations	
Canada			
Client/client		Parks Canada Agency L'Agence Parcs Canada	
Western and Northern Region		Ouest et Nord du Canada	
Project title/Titre du projet			
HIGHWAY 5 ROAD REHABILITATION PHASE 2 – SEGMENT 2 WOOD BUFFALO NATIONAL PARK			
Drawing title/Titre du dessin			
REQUIRED DITCHING CROSS SECTIONS			
Surveyed by/Arpenté par		Drawn by/Dessiné par	
WSP CANADA INC.		WSP CANADA INC.	
Designed by/Concept par		Reviewed by/Revisé par	
WSP CANADA INC.		WSP CANADA INC.	
Date/Date		Scale/Échelle	
2017-01-20		1:250 (H) 1:100 (V)	
PWGSC Project Manager/Administrateur de Projets TPSGC			
Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet		Asset No./No. du-bien	
161-11147-01			
Drawing Reference No./No. de référence du dessin		Sheet No./No. de la feuille	
		304	



THE SURVEY AND LAYOUT OF THE DITCHING IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DESIGN DIMENSIONS AND TOLERANCES ARE TO BE VERIFIED FOR THE CONFORMITY WITH FIELD CONDITIONS BY THE CONTRACTOR PRIOR TO EXCAVATION. THE CONTRACTOR MUST OBTAIN THE DEPARTMENTAL REPRESENTATIVE'S APPROVAL OF THE DITCHING LIMITS PRIOR TO EXCAVATION.

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Revision / Revision

Consultant's Name
Nom de l'expert-conseil



Eng. Stamp
Sceau de l'ingénieur

Public Works and
Government Services
Canada


Travaux publics et
Services gouvernementaux
Canada

Client Services Team
Southern Alberta
Operations Branch

Le Client Entretien l'Équipe
Alberta Méridional
Branche d'Opérations

Canada

Client/client

Parks Canada
Agency

L'Agence Parcs
Canada

Western and
Northern Region

Ouest et Nord
du Canada

Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

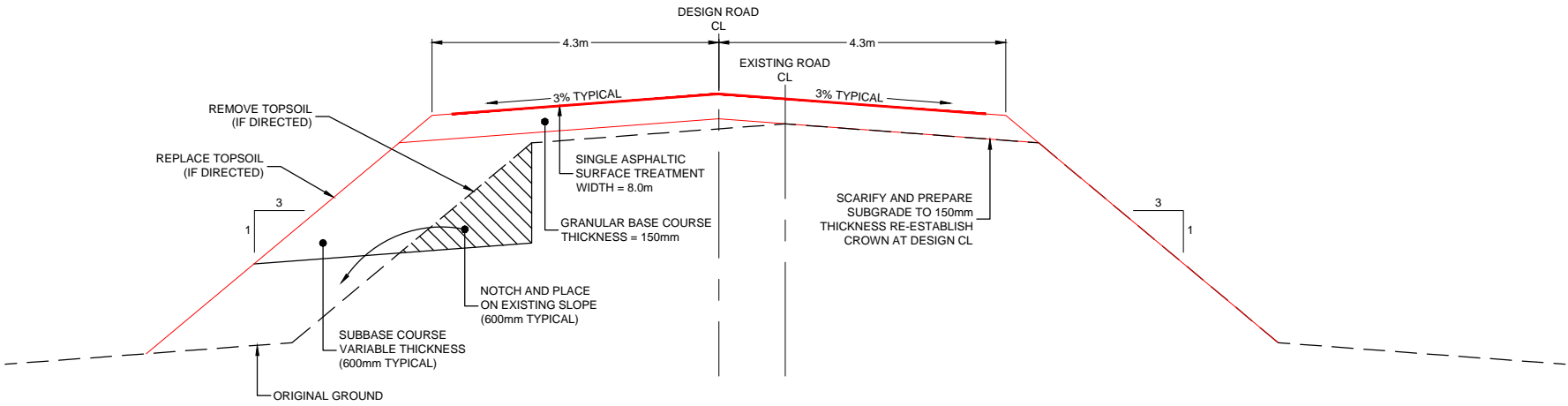
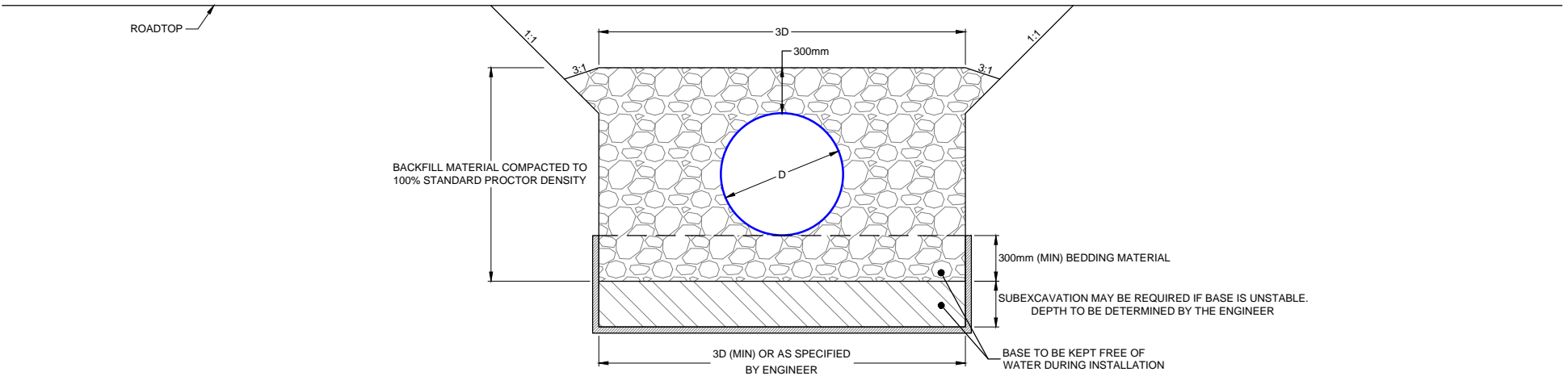
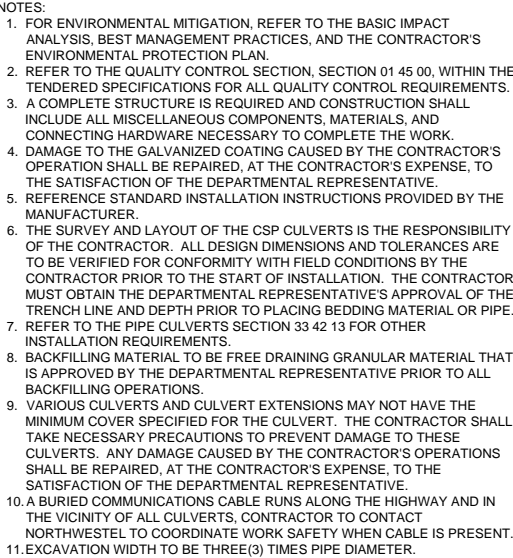
REQUIRED DITCHING
CROSS SECTIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2017-01-20
Designed by/Concept par	Reviewed by/Revisé par	Scale/Échelle
WSP CANADA INC.		1:250 (H) 1:100 (V)

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Park Responsible Officer/Agent Responsable	PWGSC Project Manager/Administrateur de Projets TPSGC

Project No./No. du projet	Asset No./No. du-bien	Sheet No./ No. de la feuille
161-11147-01		305
Drawing Reference No./No. de référence du dessin		



INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES IS COMPILED FROM SOME RECORD DRAWINGS AND SOME SURVEYS, AND MAY NOT BE COMPLETE OR FULLY ACCURATE. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AND ADVISE THE DEPARTMENTAL REPRESENTATIVE OF ANY POTENTIAL CONFLICTS.				
1	17-01-20	ISSUED FOR TENDER	CH	HW
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Revision / Revision				
Consultant's Name Nom de l'expert-conseil			Eng. Stamp Sceau de l'ingénieur	
				
 Public Works and Government Services Canada			Travaux publics et Services gouvernementaux Canada	
Client Services Team Southern Alberta Operations Branch			Le Client Entretien l'Équipe Alberta Méridional Branche d'Opérations	
				
Client/client		L'Agence Parcs Canada		
		Western and Northern Region		
		Ouest et Nord du Canada		
Project title/Titre du projet				
HIGHWAY 5 ROAD REHABILITATION PHASE 2 – SEGMENT 2				
WOOD BUFFALO NATIONAL PARK				
Drawing title/Titre du dessin				
TYPICAL SECTIONS				
Surveyed by/Arpenté par		Drawn by/Dessiné par WSP CANADA INC.		Date/Date 2017-01-20
Designed by/Concept par WSP CANADA INC.		Reviewed by/Revisé par		Scale/Echelle 1:50 (H) 1:20 (V)
PWGSC Project Manager/Administrateur de Projets TPSGC				
Client Acceptance/Acceptation du client			Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable			PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet 161-11147-01		Asset No./No. du bien		Sheet No./ No. de la feuille
Drawing Reference No./No. de référence du dessin				401



Hole					% Passing (mm)													
	150	125	80	50	40	25	20	16	12.5	10	8	5	1.25	0.63	0.315	0.16	0.08	
5	100	100	100	100	100	100	100	100	99	99	99	98	63	43	20	2.9	2	
6	100	100	100	100	100	100	97	95	93	92	91	90	87	75	38	8.1	2.6	1.7
10	100	100	100	93	89	80	71	61	52	46	43	39	26	13	4.6	2.4	1.8	
12	100	100	100	90	85	79	70	66	62	58	55	52	47	31	13	3.5	2.4	2
13	100	100	100	100	91	86	72	65	60	55	51	48	43	27	8.2	1.3	0.8	0.7
15	100	100	100	100	100	97	96	95	94	94	93	91	85	77	50	25	13	
16	100	100	100	100	100	100	99	99	99	99	99	99	98	97	88	39	21	
17	100	100	100	92	92	90	87	85	83	81	79	75	61	40	16	9.3	6.1	
19	100	100	100	100	81	71	61	55	51	48	46	45	42	34	23	9.2	4.7	3.6
20	100	100	100	100	98	95	93	89	85	82	77	70	47	24	8.1	3.1	1.8	
21	100	100	100	100	97	92	90	88	82	81	78	72	58	47	39	34	32	
22	100	100	100	100	100	96	94	92	90	88	86	82	71	63	58	55	51	
GBC Stockpile Average				% Fracture = 72%			100	94	84	73		52	28	18	12	8.8	7	

CONTROL POINTS COORDINATES (UTM12)

CP586 N: 6683196.157 E: 337465.116 Z: 274.652
CP584 N: 6680473.346 E: 341816.663 Z: 275.505

ESTIMATED QUANTITY OF AVAILABLE AGGREGATE: 93,567 cu.m

NOTES:

- ADDITIONAL UNPROVEN MATERIAL MAY BE AVAILABLE AS THE BOTTOM OF THE DEPOSIT WAS NOT FOUND.
- GROUNDWATER WAS NOT ENCOUNTERED IN ANY OF THE TEST PITS. IT IS EXPECTED THAT THE PIT WILL BE A DRY PIT.
- THERE IS AN AVERAGE TOPSOIL DEPTH OF 0.1 m AND AN ADDITIONAL OVERBURDEN OF 0.2 m OVER THE AGGREGATE IN THE AREA TO BE WORKED.
- WORK PIT IN DIRECTION INDICATED TO PIT FLOOR PRIOR TO PROCEEDING TO NEW ZONES WITHIN THE AREA TO BE WORKED.
- ALL WORK IN THE PIT MUST ADHERE TO THE BASIC IMPACT ANALYSIS (BIA), APPLICABLE RESTRICTED ACTIVITY PERMITS (RAP), AND THE SPECIFICATIONS OF THE CONTRACT.
- STOCKPILE TOPSOIL & OVERBURDEN SEPARATELY AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.

LEGEND

EXISTING

- PIT BOUNDARY
- SHOULDER OF GRAVEL ROAD
- TREE LINE
- AREA TO BE GRUBBED & REMOVE OVERBURDEN (1.23 ha)
- TEST PIT LOCATION
- TOWER LOCATION
- ANCHOR LOCATION

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Revision / Revision



Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Public Works and Government Services Canada
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Client Services Team
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Project title/Titre du projet

HIGHWAY 5
ROAD REHABILITATION
PHASE 2 – SEGMENT 2

WOOD BUFFALO NATIONAL PARK

Drawing title/Titre du dessin

PIT DEVELOPMENT PLAN
KM 136.6

Surveyed by/Arpenté par	Drawn by/Dessiné par WSP CANADA INC.	Date/Date 2017-01-20
Designed by/Concept par WSP CANADA INC.	Reviewed by/Revisé par	Scale/Échelle 1:1000

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client		Approved by/Approuvé par	
Park Responsible Officer/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC	
Project No./No. du projet 161-11147-01	Asset No./No. du-bien	Sheet No./No. de la feuille 501	
Drawing Reference No./No. de référence du dessin			