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103	PLAN VIEW - STA 42+300 - 43+600
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203	CUSTOM CULVERT INSTALLATION DRAWINGS
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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	18-02-15	ISSUED FOR TENDER	DL	HW
0	18-01-31	ISSUED FOR REVIEW	DL	HW
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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 10
ROAD REHABILITATION
SEGMENT 4

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

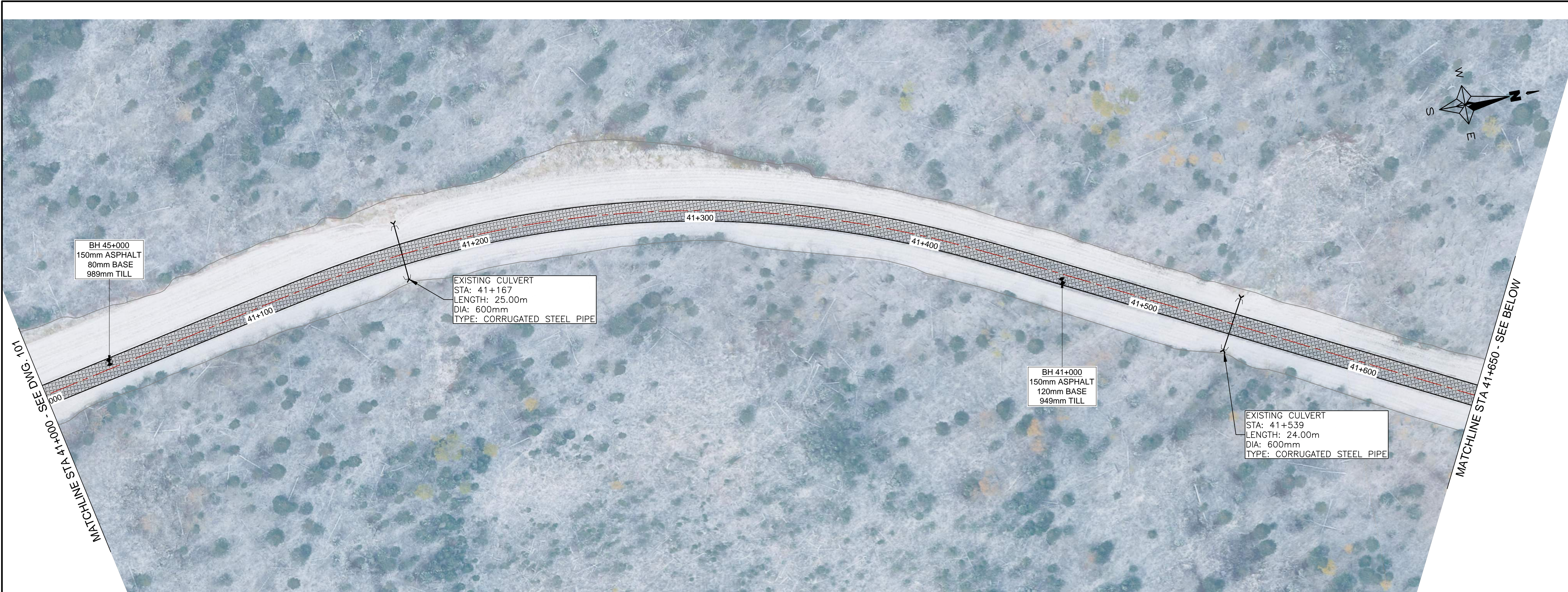
LOCATION PLAN &
DRAWING INDEX

Surveyed by/Arpenté par	Drawn by/Dessiné par WSP CANADA INC.	Date/Date 2018-01-31
Designed by/Concept par WSP CANADA INC.	Reviewed by/Revisé par	Scale/Echelle 1:100 000

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 35804	Asset No./No. du-bien	Sheet No./ No. de la feuille 001
Drawing Reference No./No. de référence du dessin		



LEGEND

- SHOULDER OF HIGHWAY
- DITCH FLOW
- DITCH CUT REQUIRED
- GRUBBING REQUIRED
- WATER
- SWAMP
- CULVERT
- MILL & FILL WITH 70mm OVERLAY
- FDR & 100mm OVERLAY
- 70mm OVERLAY
- 50mm OVERLAY

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1	18-02-15	ISSUED FOR TENDER	DL	HW
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0 25 50 75 100 METERS

Consultant's Name
Nom de l'expert-conseil

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Operations Branch

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Project title/Titre du projet

HIGHWAY 10 ROAD REHABILITATION SEGMENT 4

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

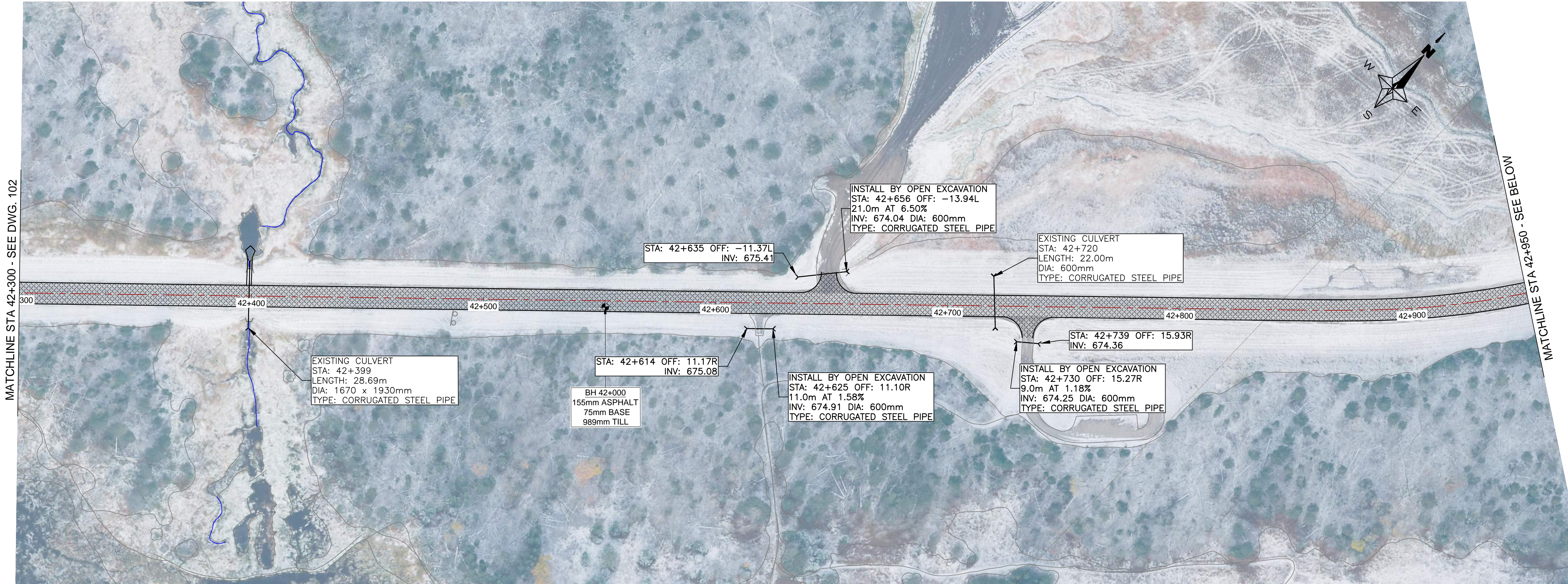
PLAN VIEWS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2018-01-30
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WSP CANADA INC.		1:1000

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Park Responsible Office/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
35804		102
Drawing Reference No./No. de référence du dessin		

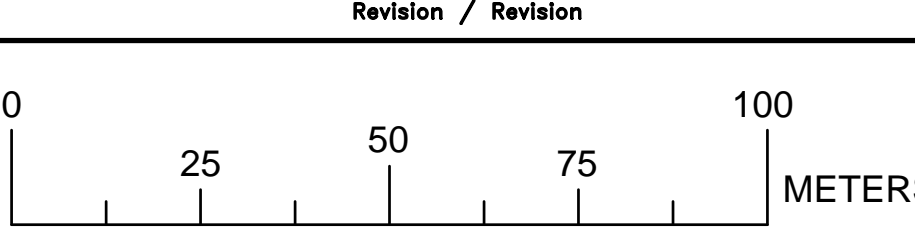


LEGEND

- SHOULDER OF HIGHWAY
- DITCH FLOW
- DITCH CUT REQUIRED
- GRUBBING REQUIRED
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du Canada

Project title/Titre du projet

HIGHWAY 10
ROAD REHABILITATION
SEGMENT 4

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

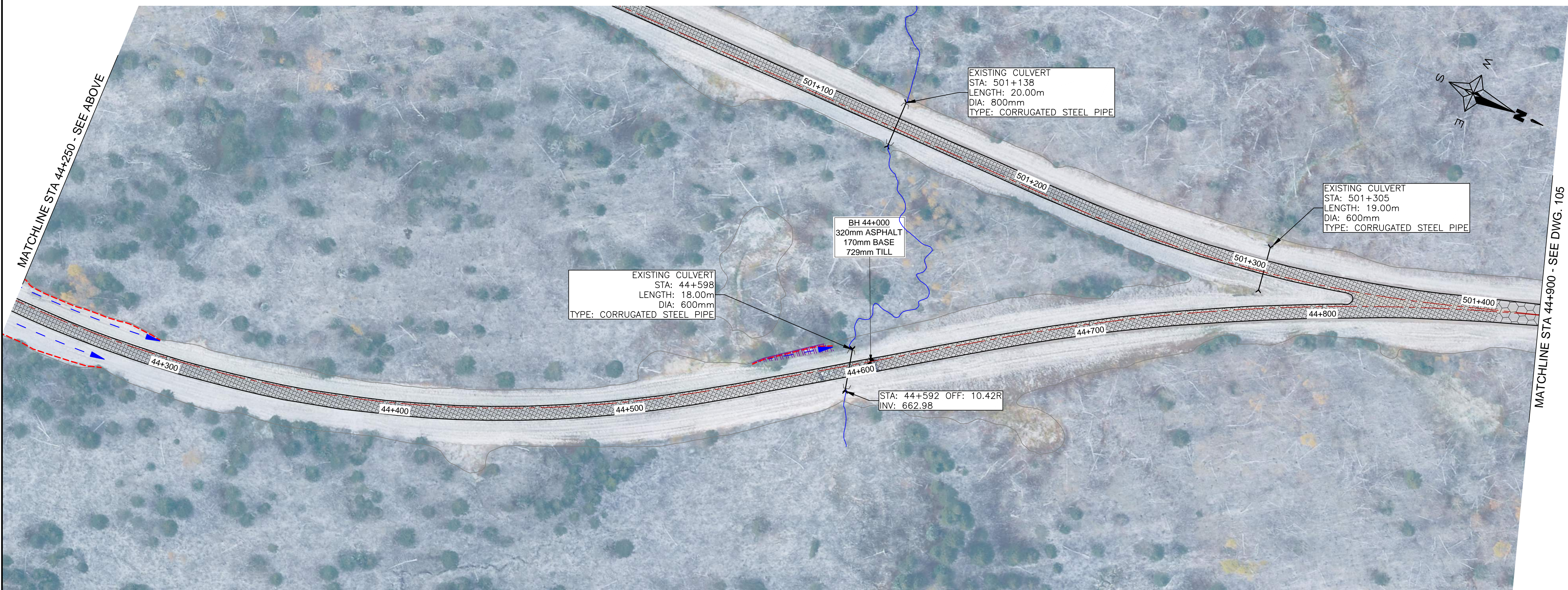
PLAN VIEWS

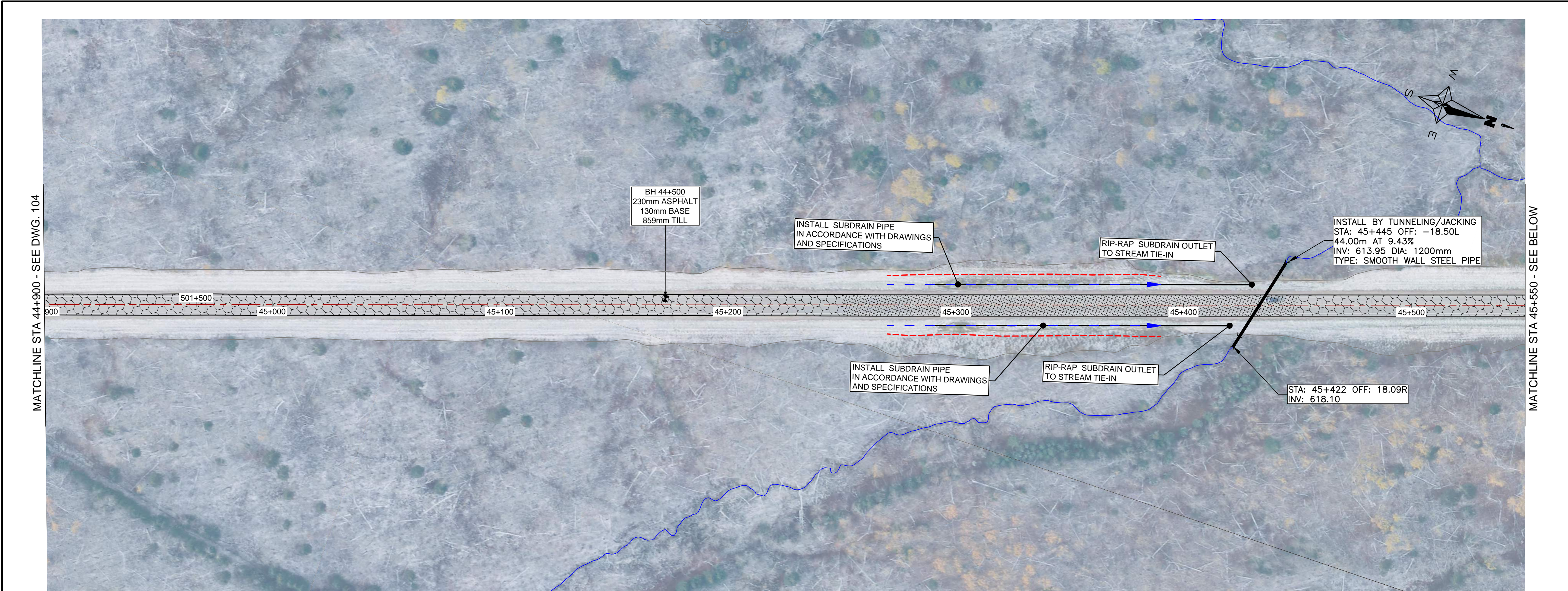
Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2018-01-30
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WSP CANADA INC.		1:1000

PWGSC Project Manager/Administrateur de Projets TPSGC

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Park Responsible Office/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
35804		103
Drawing Reference No./No. de référence du dessin		





LEGEND

- SHOULDER OF HIGHWAY
- DITCH FLOW
- DITCH CUT REQUIRED
- GRUBBING REQUIRED
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Revision / Revision

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Consultant's Name
Nom de l'expert-conseil

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Public Works and Government Services Canada

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Alberta Méridional
Branche d'Opérations

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Client/client

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Western and Northern Region

L'Agence Parcs Canada

Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 10
ROAD REHABILITATION
SEGMENT 4

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

PLAN VIEWS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2018-01-30
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WSP CANADA INC.		1:1000

PWGSC Project Manager/Administrateur de Projets TPSGC

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Park Responsible Office/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
35804		105

Drawing Reference No./No. de référence du dessin



LEGEND

- SHOULDER OF HIGHWAY
- DITCH FLOW
- DITCH CUT REQUIRED
- GRUBBING REQUIRED
- WATER
- SWAMP
- CULVERT
- MILL & FILL WITH 70mm OVERLAY
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0 25 50 75 100 METERS				

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Client Services Team
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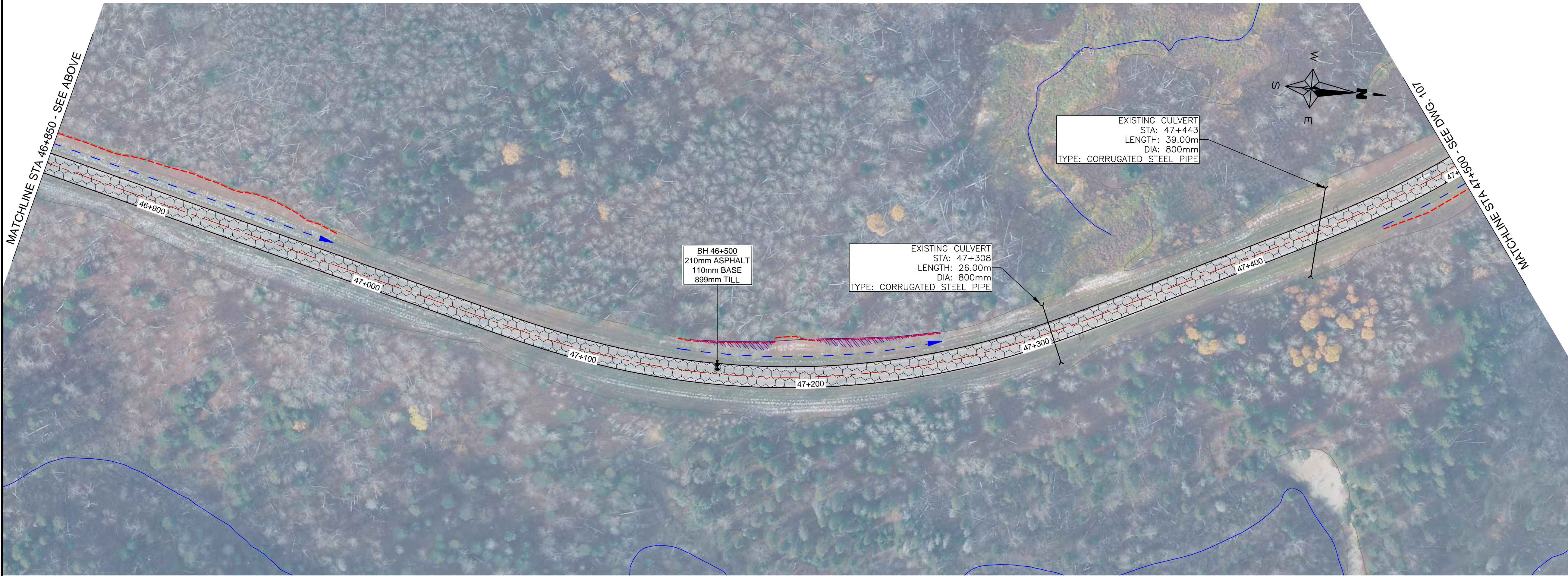
Client/client

Parks Canada
Agency

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Northern Region

L'Agence Parcs
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Project title/Titre du projet

HIGHWAY 10
ROAD REHABILITATION
SEGMENT 4

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

PLAN VIEWS

Surveyed by/Arpenté par

Drawn by/Dessiné par

Date/Date

Designed by/Concept par

Reviewed by/Revisé par

Scale/Echelle

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Park Responsible Office/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

106



LEGEND

SHOULDER OF HIGHWAY

DITCH FLOW

DITCH CUT REQUIRED

GRUBBING REQUIRED

WATER

SWAMP

CULVERT

MILL & FILL WITH 70mm OVERLAY

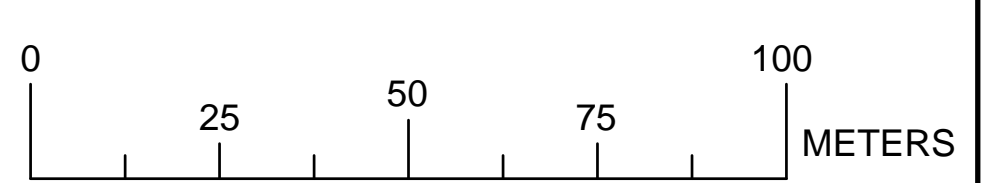
FDR & 100mm OVERLAY

70mm OVERLAY

50mm OVERLAY

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du Canada

Project title/Titre du projet

HIGHWAY 10
ROAD REHABILITATION
SEGMENT 4

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

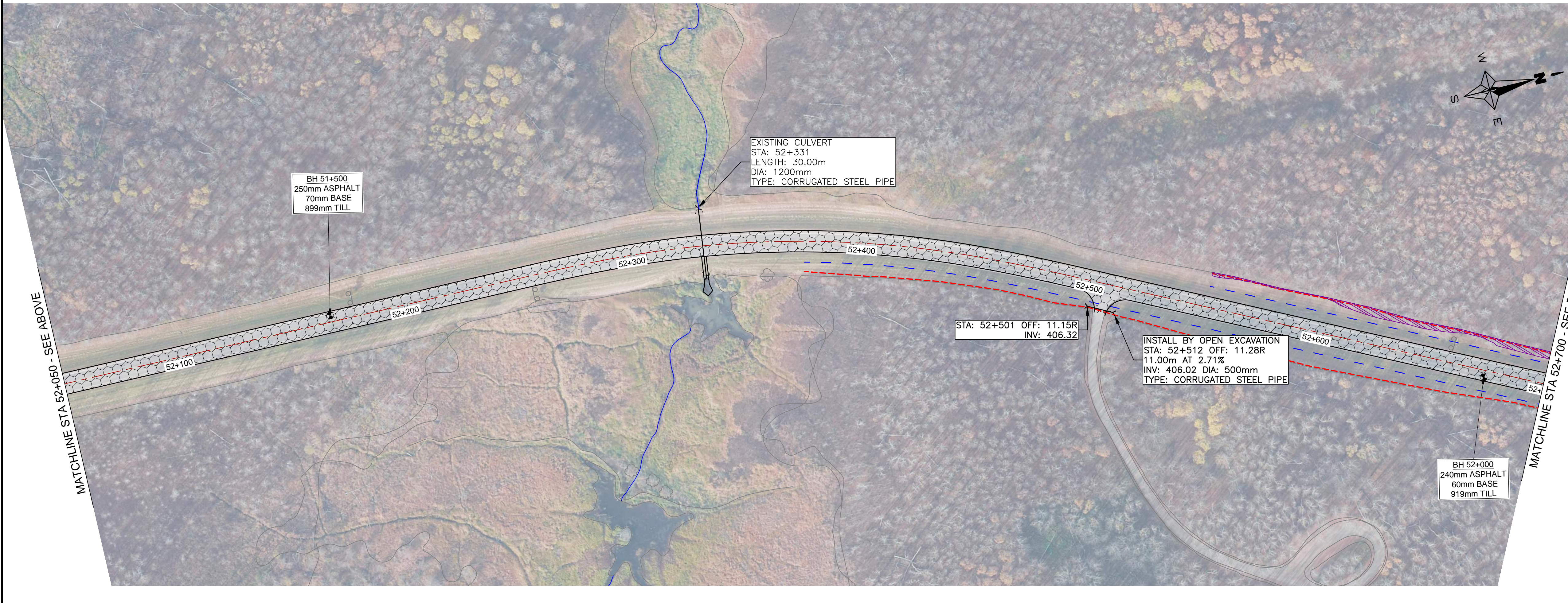
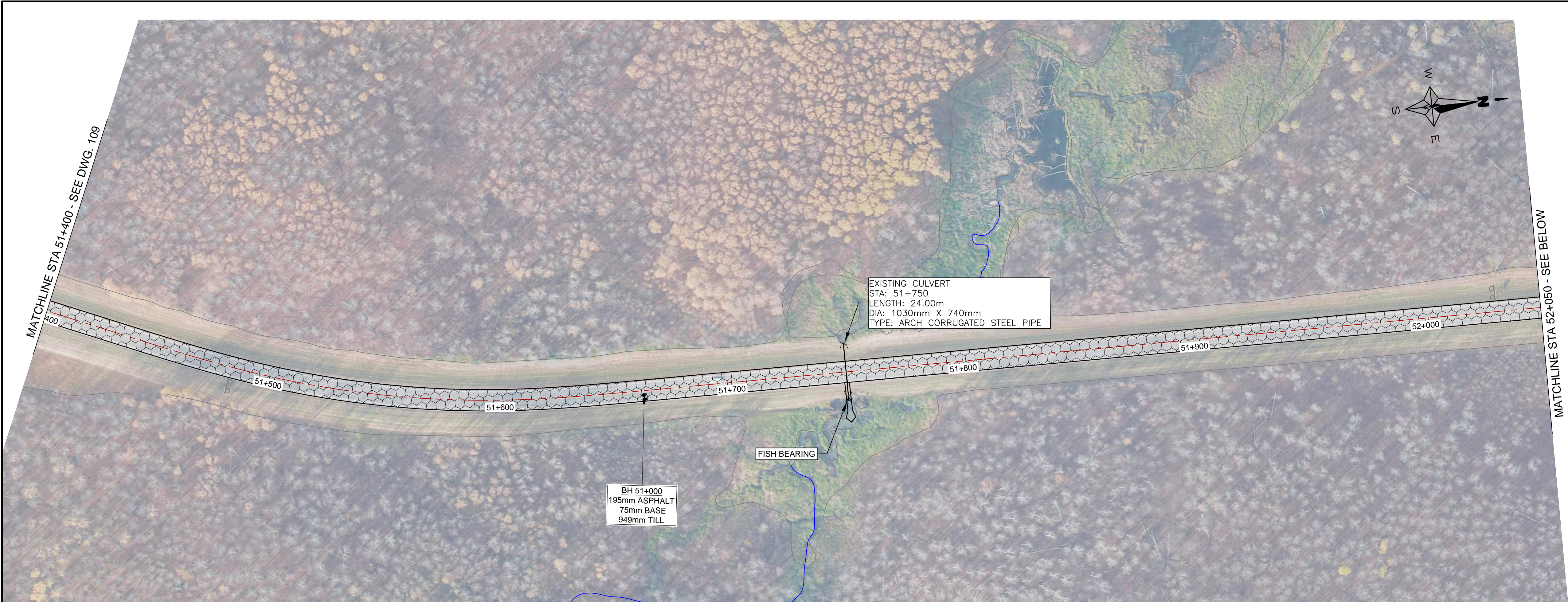
PLAN VIEWS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2018-01-30
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
WSP CANADA INC.		1:1000

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
35804		109
Drawing Reference No./No. de référence du dessin		

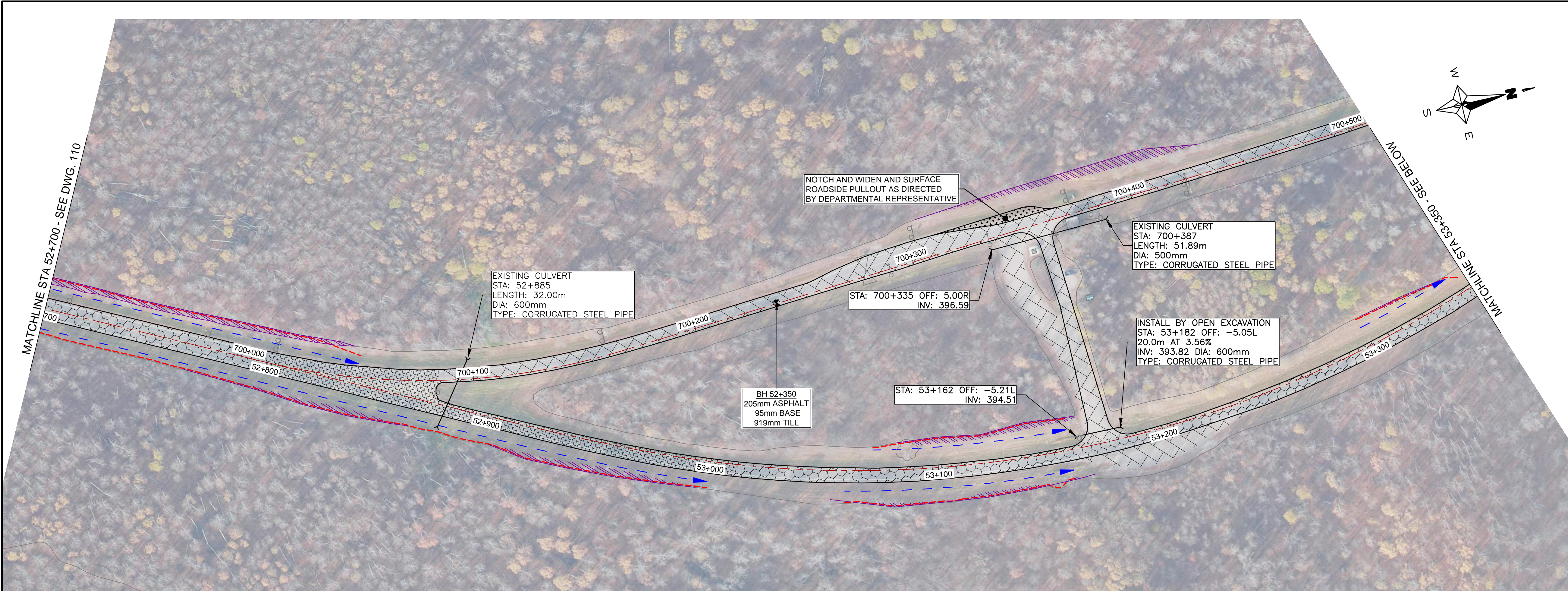


LEGEND

	SHOULDER OF HIGHWAY
	DITCH FLOW
	DITCH CUT REQUIRED
	GRUBBING REQUIRED
	WATER
	SWAMP
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Revision / Revision				
0 25 50 75 100 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		
<h1>Canada</h1>				
	Client/client Parks Canada Agency	L'Agence Parcs Canada		
Western and Northern Region		Ouest et Nord du Canada		
Project title/Titre du projet HIGHWAY 10 ROAD REHABILITATION SEGMENT 4 RIDING MOUNTAIN NATIONAL PARK				
Drawing title/Titre du dessin PLAN VIEWS				
Surveyed by/Arpenté par	Drawn by/Dessiné par WSP CANADA INC.	Date/Date 2018-01-30		
Designed by/Concept par WSP CANADA INC.	Reviewed by/Revisé par	Scale/Echelle 1:1000		
PWGSC Project Manager/Administrateur de Projets TPSGC				
Client Acceptance/Acceptation du client		Approved by/Approuvé par		
Park Responsible Office/Agent Responsable		PWGSC Project Manager/Administrateur de Projets TPSGC		
Project No./No. du projet 35804		Asset No./No. du-bien		Sheet No./No. de la feuille 110
Drawing Reference No./No. de référence du dessin				



LEGEND

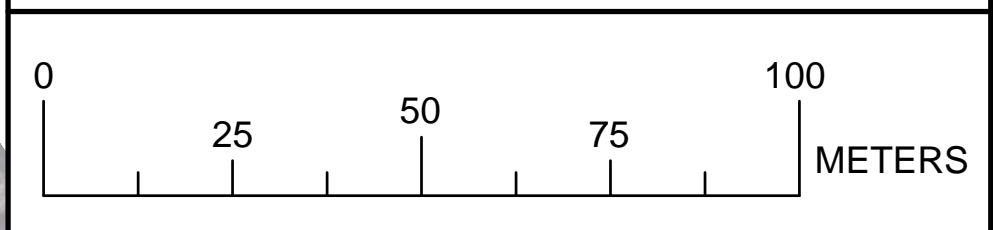
- SHOULDER OF HIGHWAY
- DITCH FLOW
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MILL & FILL WITH 70mm OVERLAY
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Consultant's Name
Nom de l'expert-conseil

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Southern Alberta Operations Branch
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Ouest et Nord du Canada

Project title/Titre du projet

**HIGHWAY 10
ROAD REHABILITATION
SEGMENT 4**

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

PLAN VIEWS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
WSP CANADA INC.	WSP CANADA INC.	2018-01-30
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WSP CANADA INC.		1:1000

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par

Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
35804		111
Drawing Reference No./No. de référence du dessin		



LEGEND

- SHOULDER OF HIGHWAY
- DITCH FLOW
- DITCH CUT REQUIRED
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- WATER
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Consultant's Name
Nom de l'expert-conseil

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HIGHWAY 10
ROAD REHABILITATION
SEGMENT 4

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

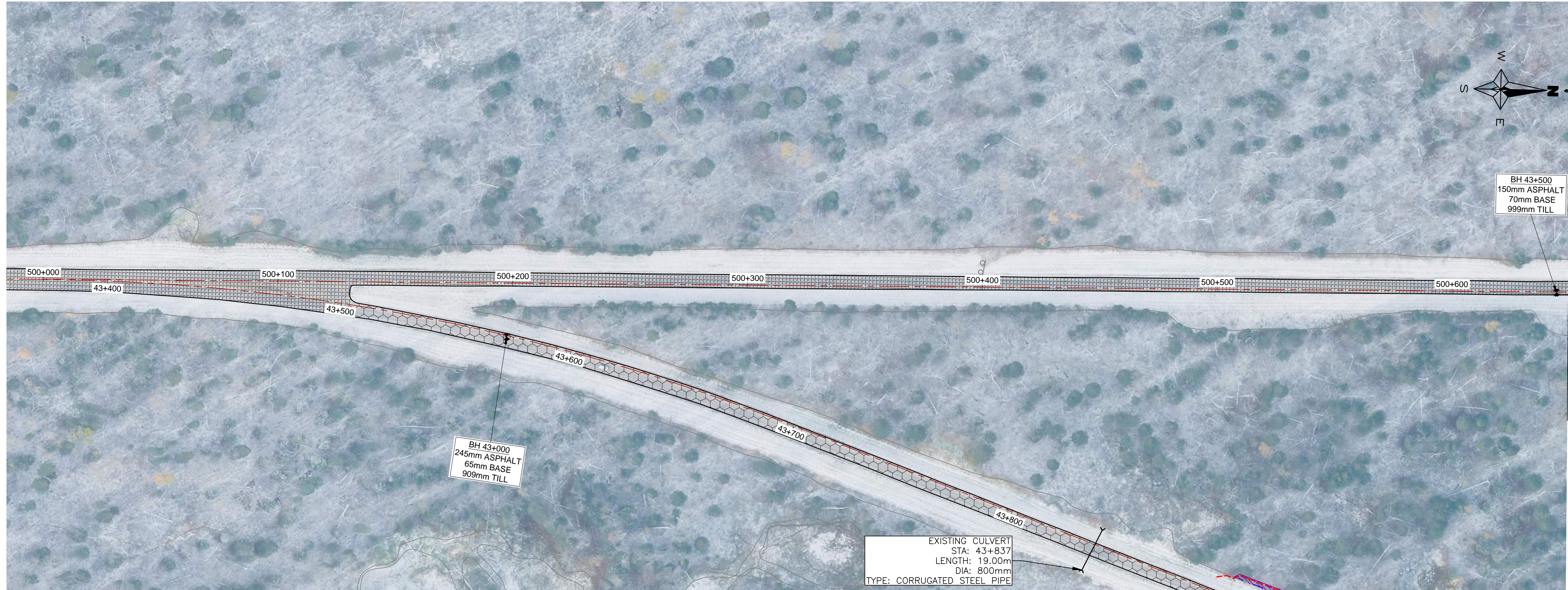
PLAN VIEWS

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PWGSC Project Manager/Administrateur de Projets TPSGC

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

Project No./No. du projet 35804	Asset No./No. du-bien	Sheet No./ No. de la feuille 112
Drawing Reference No./No. de référence du dessin		



LEGEND

- SHOULDER OF HIGHWAY
- DITCH FLOW
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0 25 50 75 100 METERS				

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Drawing title/Titre du dessin

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Project No./No. du projet	Asset No./No. du-bien	Sheet No./No. de la feuille
35804		113
Drawing Reference No./No. de référence du dessin		





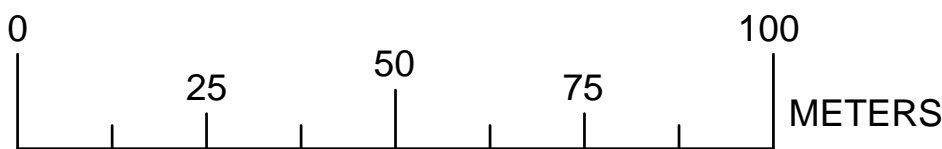
LEGEND

- SHOULDER OF HIGHWAY
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SWAMP
CULVERT
- MILL & FILL WITH 70mm OVERLAY
FDR & 100mm OVERLAY
70mm OVERLAY
50mm OVERLAY

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1	18-02-15	ISSUED FOR TENDER	DL	HW
0	18-01-30	ISSUED FOR REVIEW	DL	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

Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 10
ROAD REHABILITATION
SEGMENT 4

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

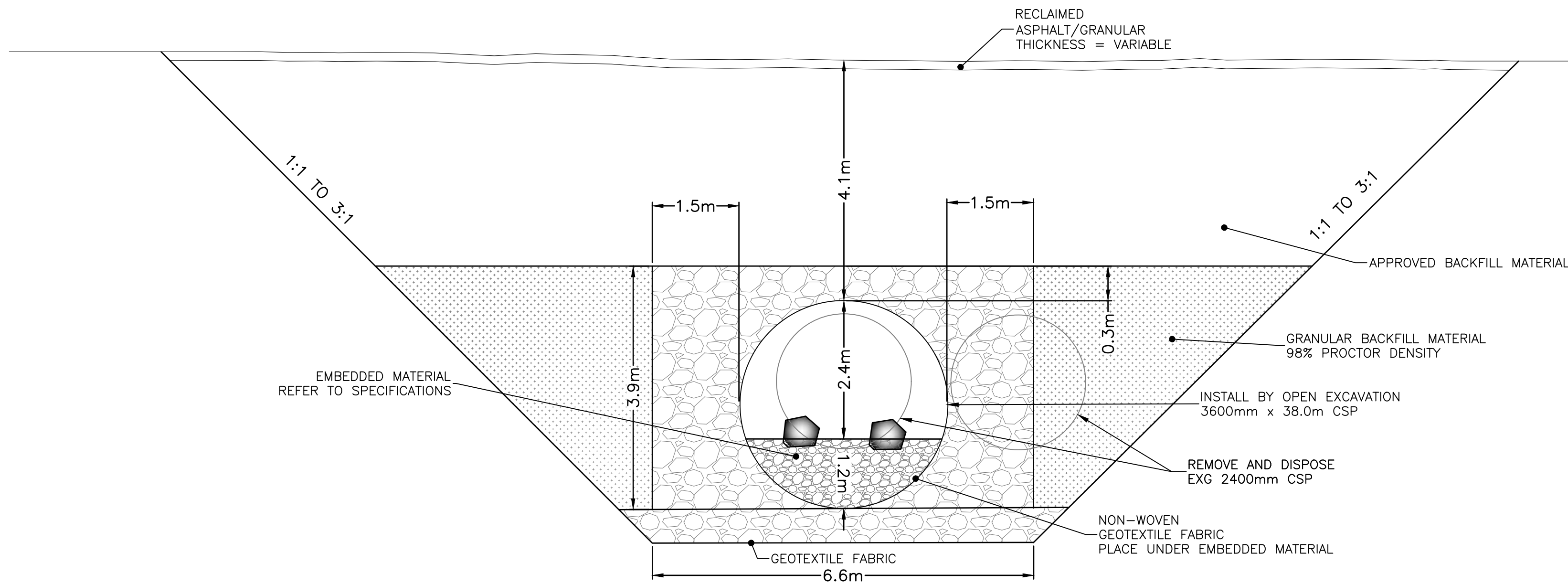
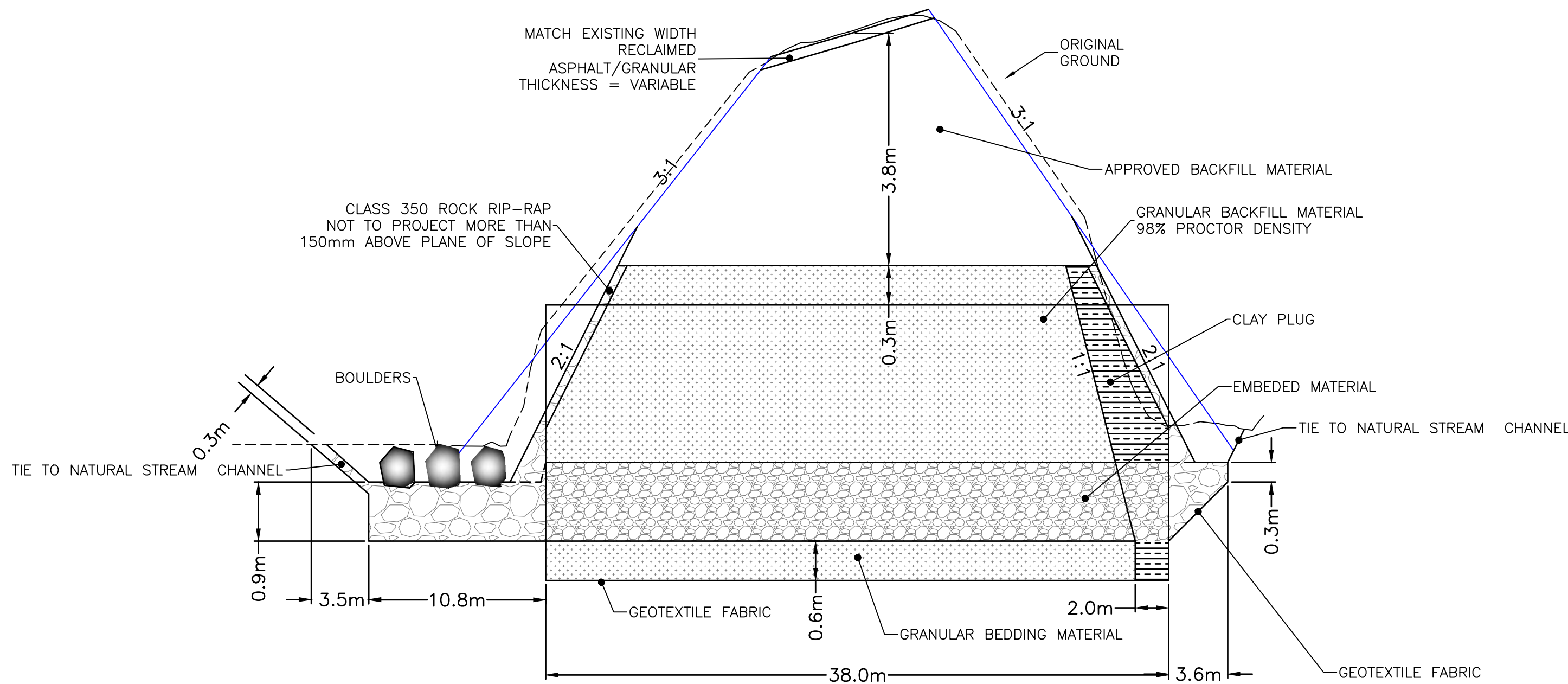
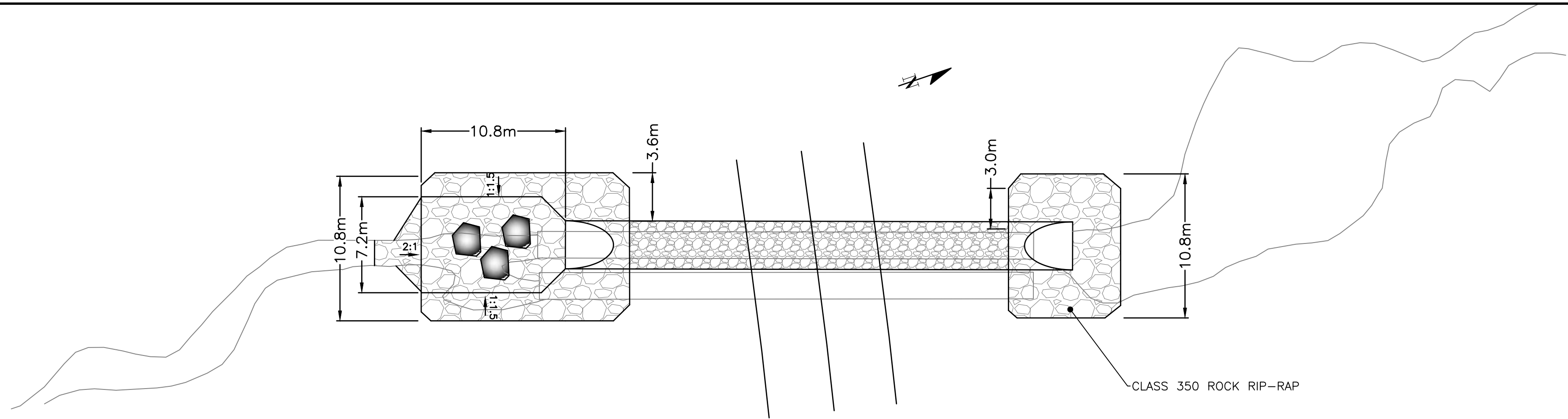
PLAN VIEWS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2018-01-30
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
WSP CANADA INC.		1:1000

PWGSC Project Manager/Administrateur de Projets TPSGC

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Park Responsible Office/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
35804		114
Drawing Reference No./No. de référence du dessin		



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.

CULVERT INVERTS TO BE ADJUSTED TO 300 mm BELOW THE DOWNSTREAM RIFFLE AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.

1	18-02-15	ISSUED FOR TENDER	DL	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

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 10
CULVERT INSTALLATIONS
SEGMENT 4

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

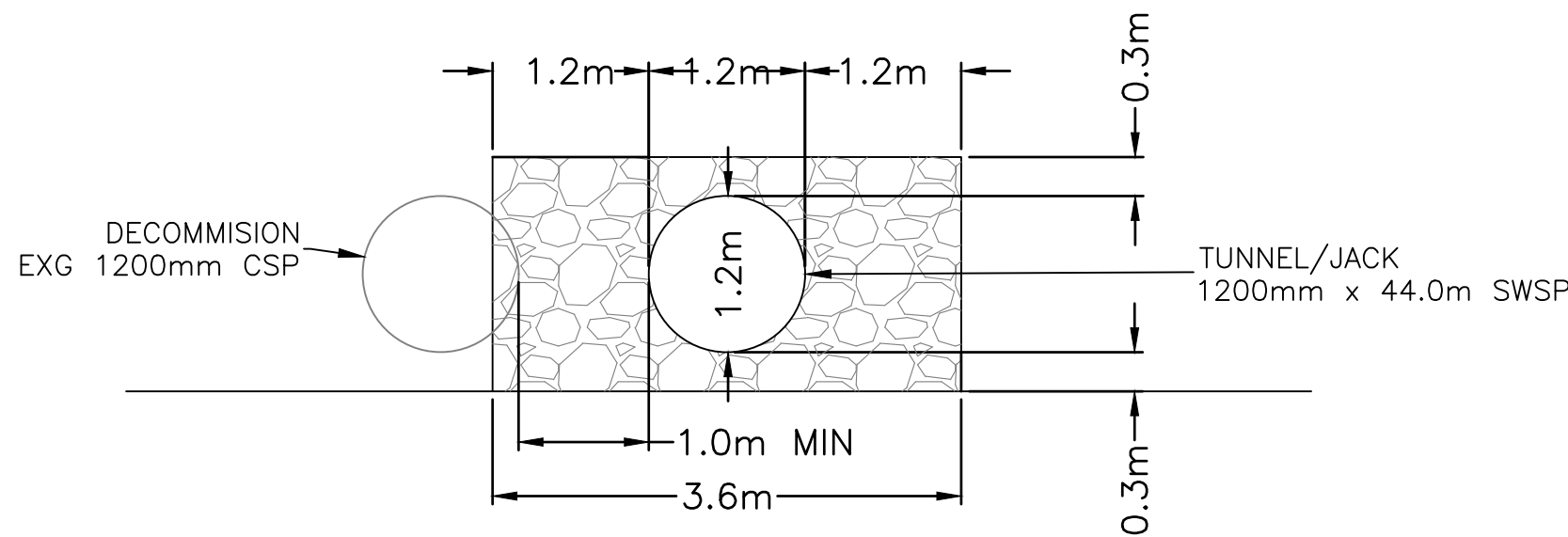
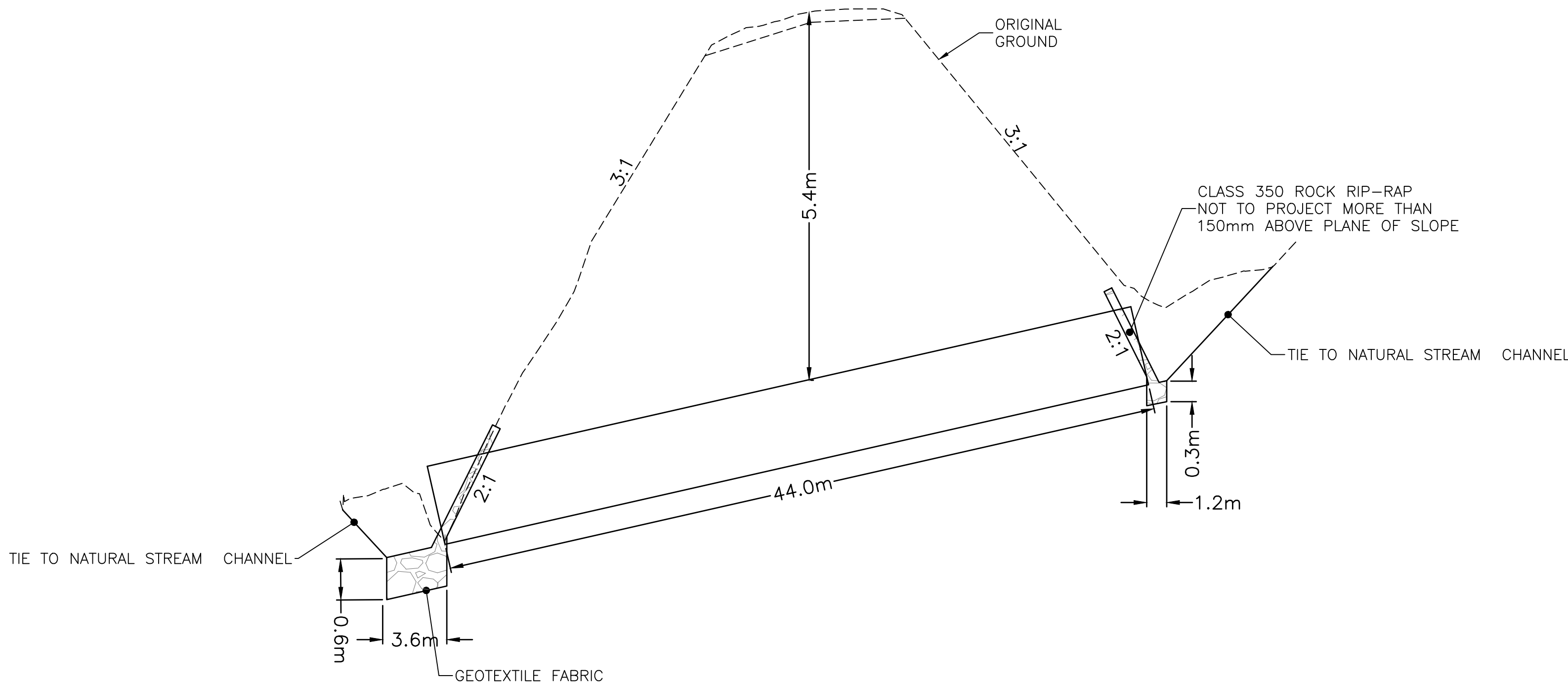
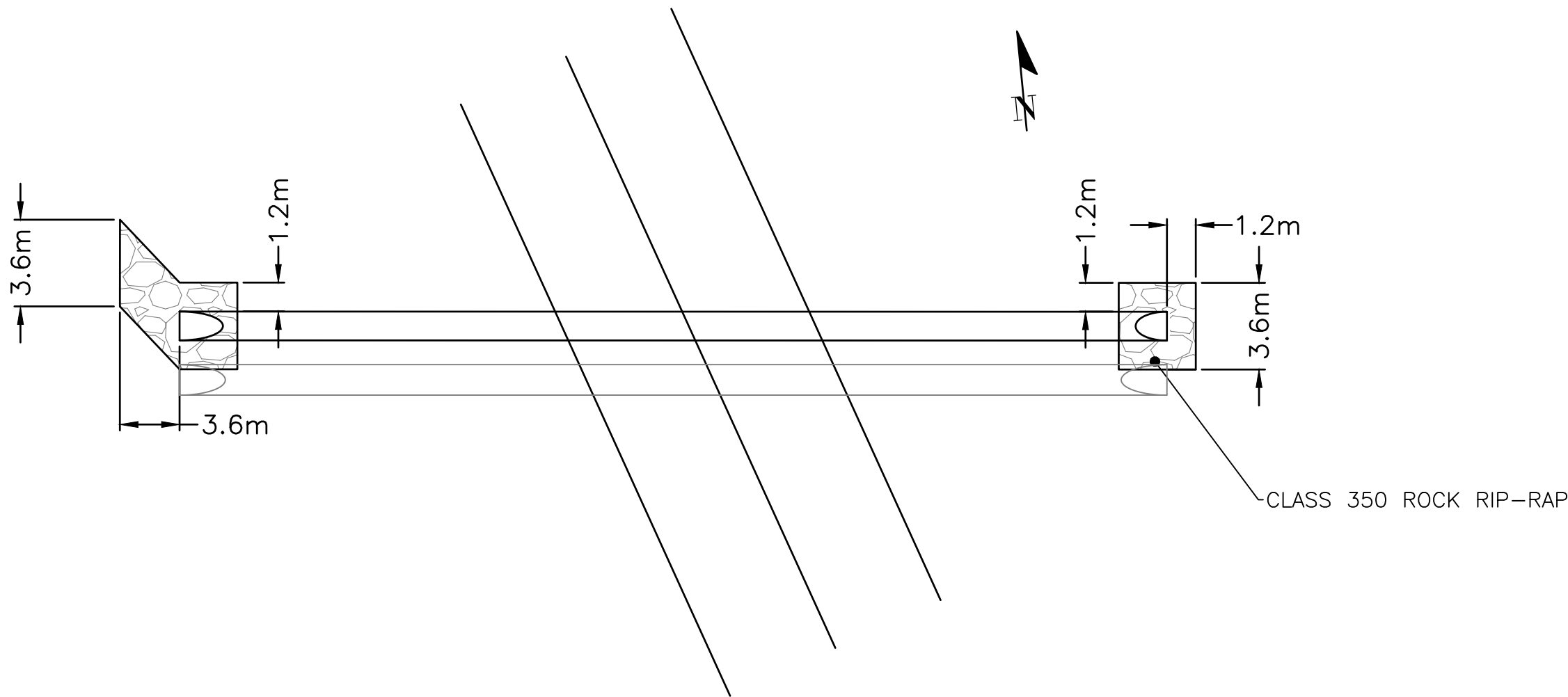
CULVERT CROSS SECTIONS
35+115

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2018-01-31
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 Office/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
35804		202
Drawing Reference No./No. de référence du dessin		




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

Revision / Revision

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

 Parks Canada Agency	L'Agence Parcs Canada
Western and Northern Region	Ouest et Nord du Canada

Project title/Titre du projet

HIGHWAY 10
CULVERT INSTALLATIONS
SEGMENT 4

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

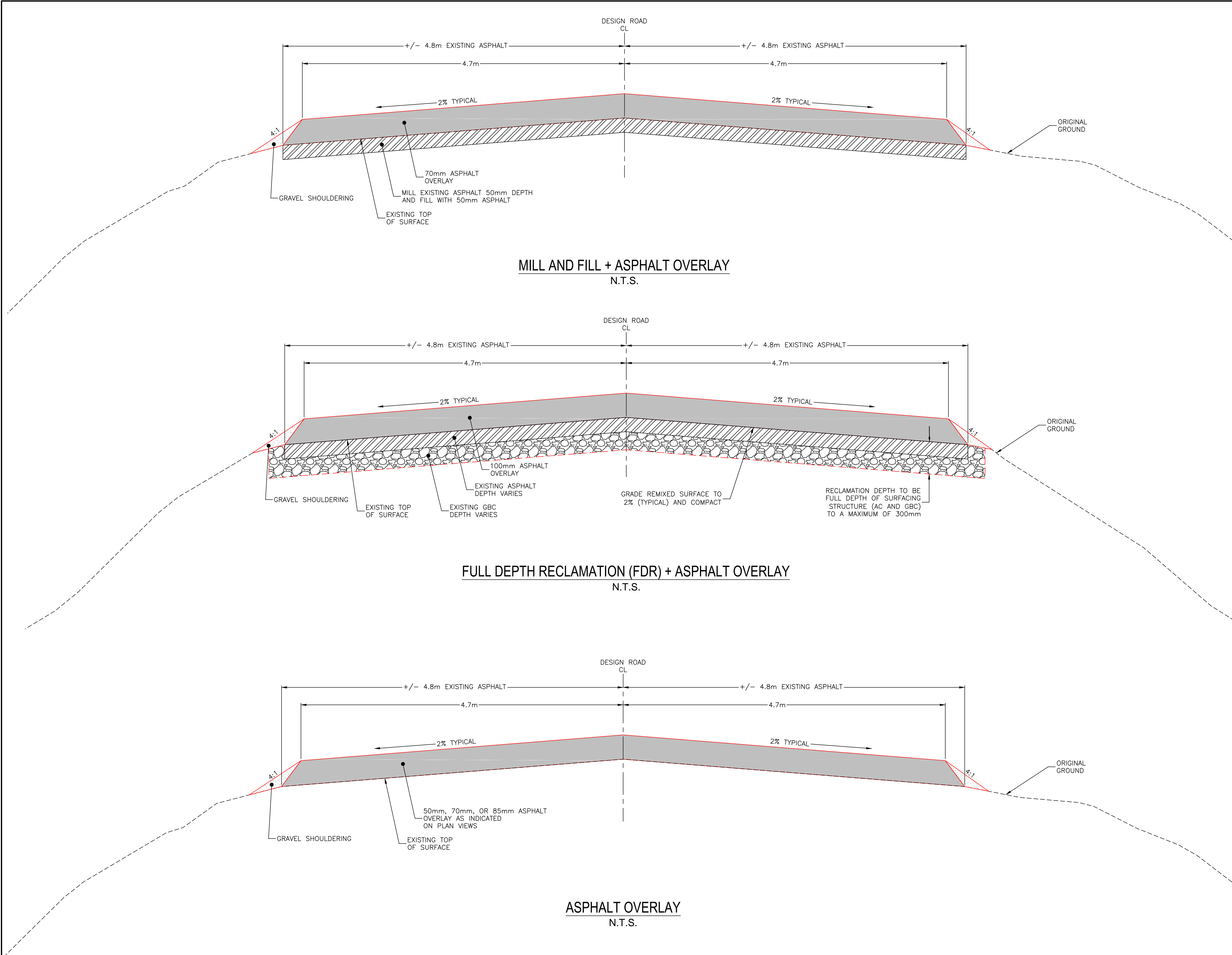
CULVERT CROSS SECTIONS
45+430

Surveyed by/Arpenté par	Drawn by/Dessiné par WSP CANADA INC.	Date/Date 2018-01-31
Designed by/Concept par WSP CANADA INC.	Reviewed by/Revisé par	Scale/Echelle 1:250 (H) 1:100 (V)

PWGSC Project Manager/Administrateur de Projets TPSGC

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

Project No./No. du projet 35804	Asset No./No. du-bien	Sheet No./ No. de la feuille 203
Drawing Reference No./No. de référence du dessin		



MILL AND FILL + ASPHALT OVERLAY
N.T.S.


FULL DEPTH RECLAMATION (FDR) + ASPHALT OVERLAY
N.T.S.


ASPHALT OVERLAY
N.T.S.

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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 10 ROAD REHABILITATION SEGMENT 4
RIDING MOUNTAIN NATIONAL PARK

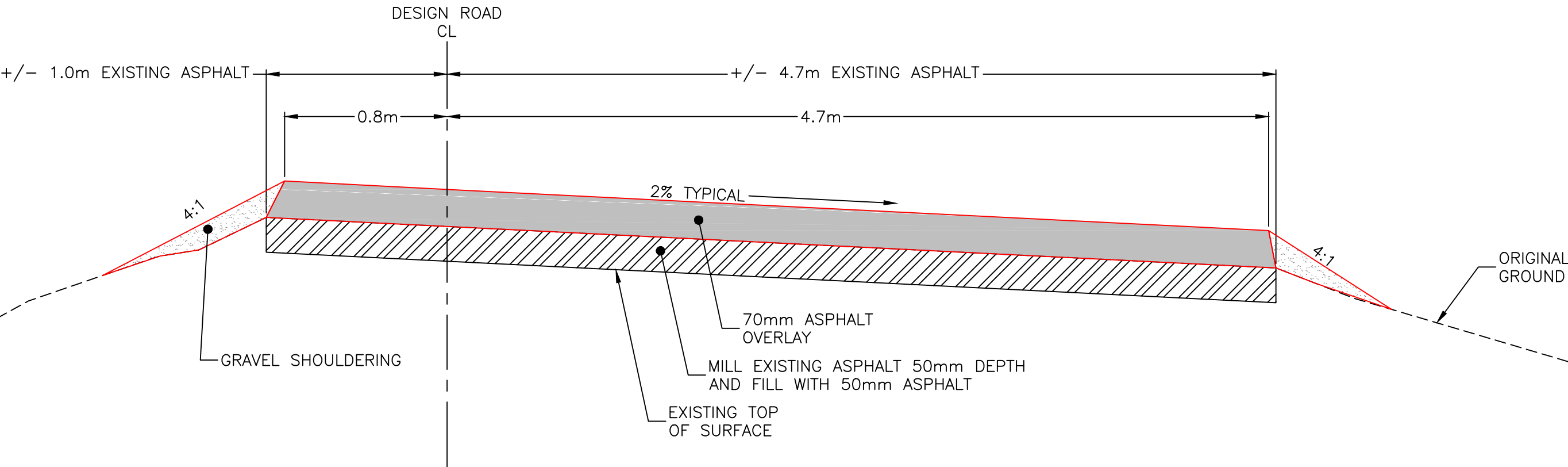
Drawing title/Titre du dessin

TYPICAL SECTIONS

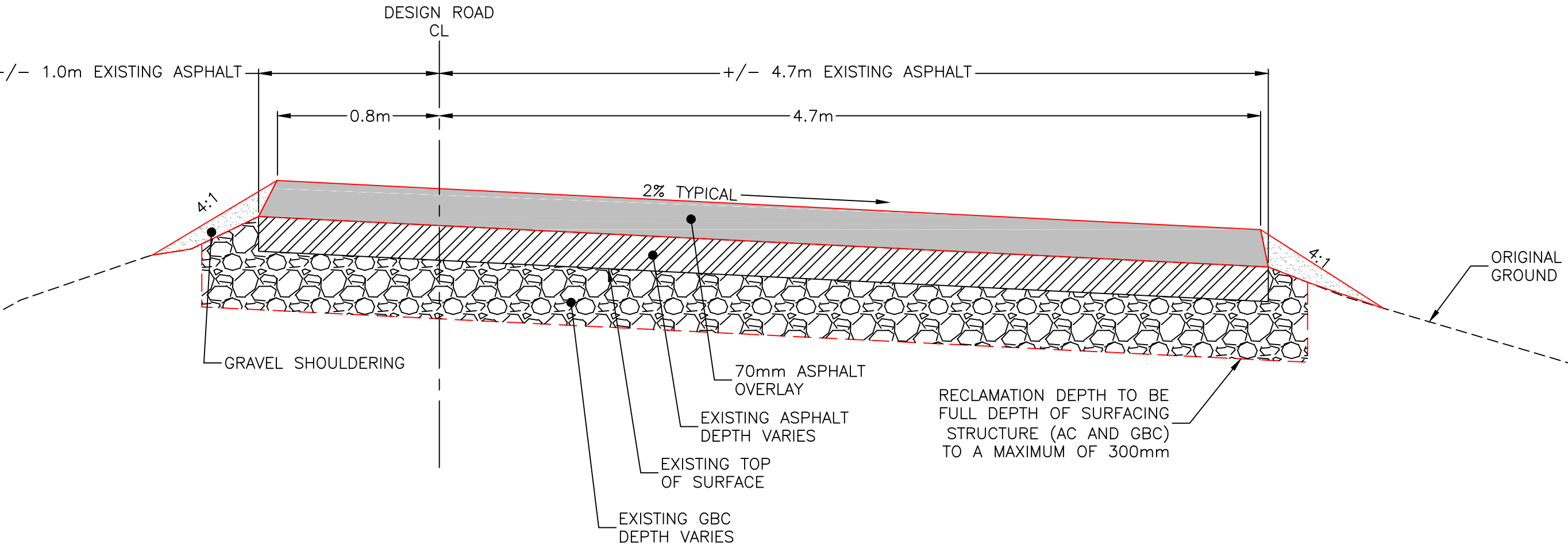
Surveyed by/Arpenté par	Drawn by/Dessiné par WSP CANADA INC.	Date/Date 2018-01-30
Designed by/Concept par WSP CANADA INC.	Reviewed by/Revisé par	Scale/Echelle N.T.S.

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
35804		301
Drawing Reference No./No. de référence du dessin		



MILL AND FILL + ASPHALT OVERLAY
N.T.S.





FULL DEPTH RECLAMATION (FDR) + ASPHALT OVERLAY
N.T.S.

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Revision / Revision

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Client Services Team Southern Alberta Operations Branch	Le Client Entretient 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 10 ROAD REHABILITATION SEGMENT 4
RIDING MOUNTAIN NATIONAL PARK

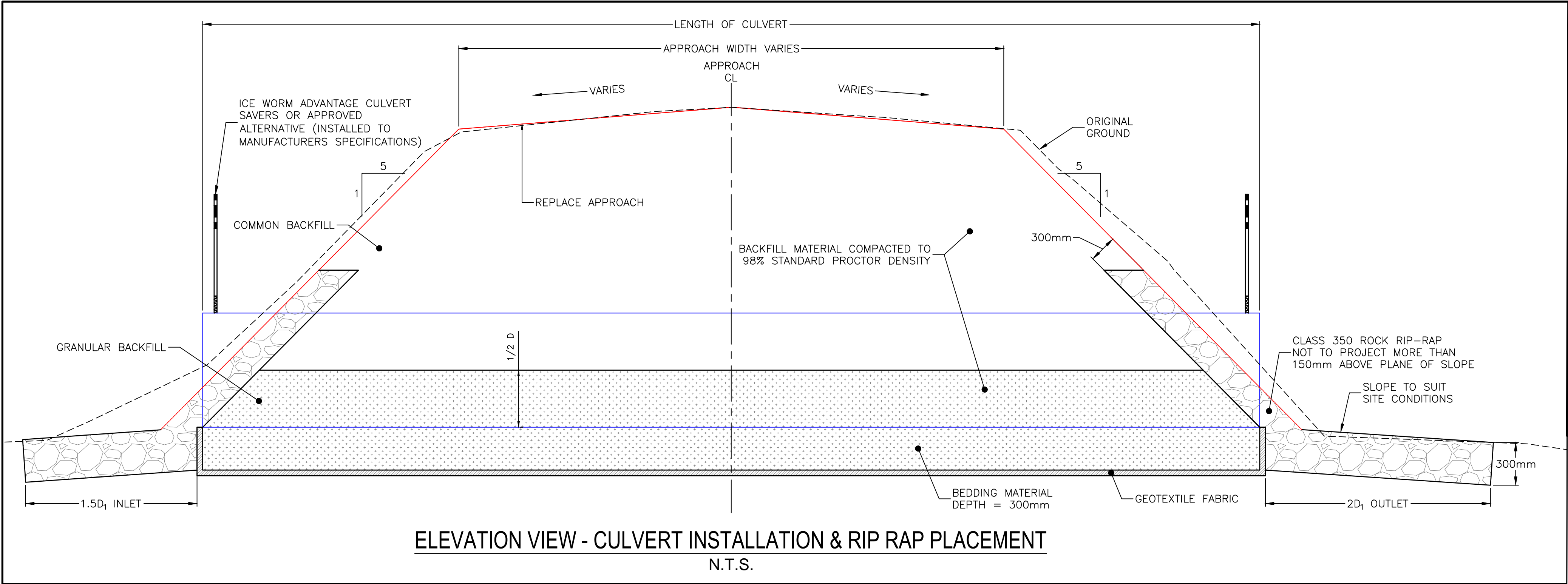
Drawing title/Titre du dessin
TYPICAL SECTIONS

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	WSP CANADA INC.	2018-01-30
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
WSP CANADA INC.		N.T.S.

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
35804		302
Drawing Reference No./No. de référence du dessin		



- NOTES:
1. FOR ENVIRONMENTAL MITIGATION, REFER TO THE BASIC IMPACT ANALYSIS, AND THE ENVIRONMENTAL PROTECTION PLAN.
 2. REFER TO THE QUALITY CONTROL SECTION, SECTION 01 45 00, WITHIN THE TENDERED SPECIFICATIONS FOR ALL QUALITY CONTROL REQUIREMENTS.
 3. A COMPLETE STRUCTURE IS REQUIRED AND CONSTRUCTION SHALL INCLUDE ALL MISCELLANEOUS COMPONENTS, MATERIALS, AND CONNECTING HARDWARE NECESSARY TO COMPLETE THE WORK.
 4. DAMAGE TO THE COATING CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 5. REFERENCE STANDARD INSTALLATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER.
 6. 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.
 7. REFER TO THE PIPE CULVERTS SECTION 33 42 13 FOR OTHER INSTALLATION REQUIREMENTS.
 8. VARIOUS CULVERTS MAY NOT HAVE THE MINIMUM COVER SPECIFIED FOR THE CULVERT. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THESE CULVERTS. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
 9. EXCAVATION WIDTH TO BE THREE(3) TIMES PIPE DIAMETER(D₁) AND COMPACTION MUST BE ACHIEVED ON ALL LIFTS INCLUDING UNDER HUNCHES.
 10. CONTRACTOR MAY ELECT TO CONSTRUCT STEEPER SLOPES TO MINIMIZE EXCAVATION BY USING TEMPORARY SUPPORT STRUCTURES OR SHORING. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE ALL OH&S REGULATIONS ARE MET.

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Revision / Revision

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
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 10
CULVERT INSTALLATIONS
SEGMENT 4**

RIDING MOUNTAIN NATIONAL PARK

Drawing title/Titre du dessin

TYPICAL SECTIONS

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	WSP CANADA INC.	2018-01-30
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WSP CANADA INC.		N.T.S.

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35804		303
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