



McElhanney

for / pour



Parks Canada Agency

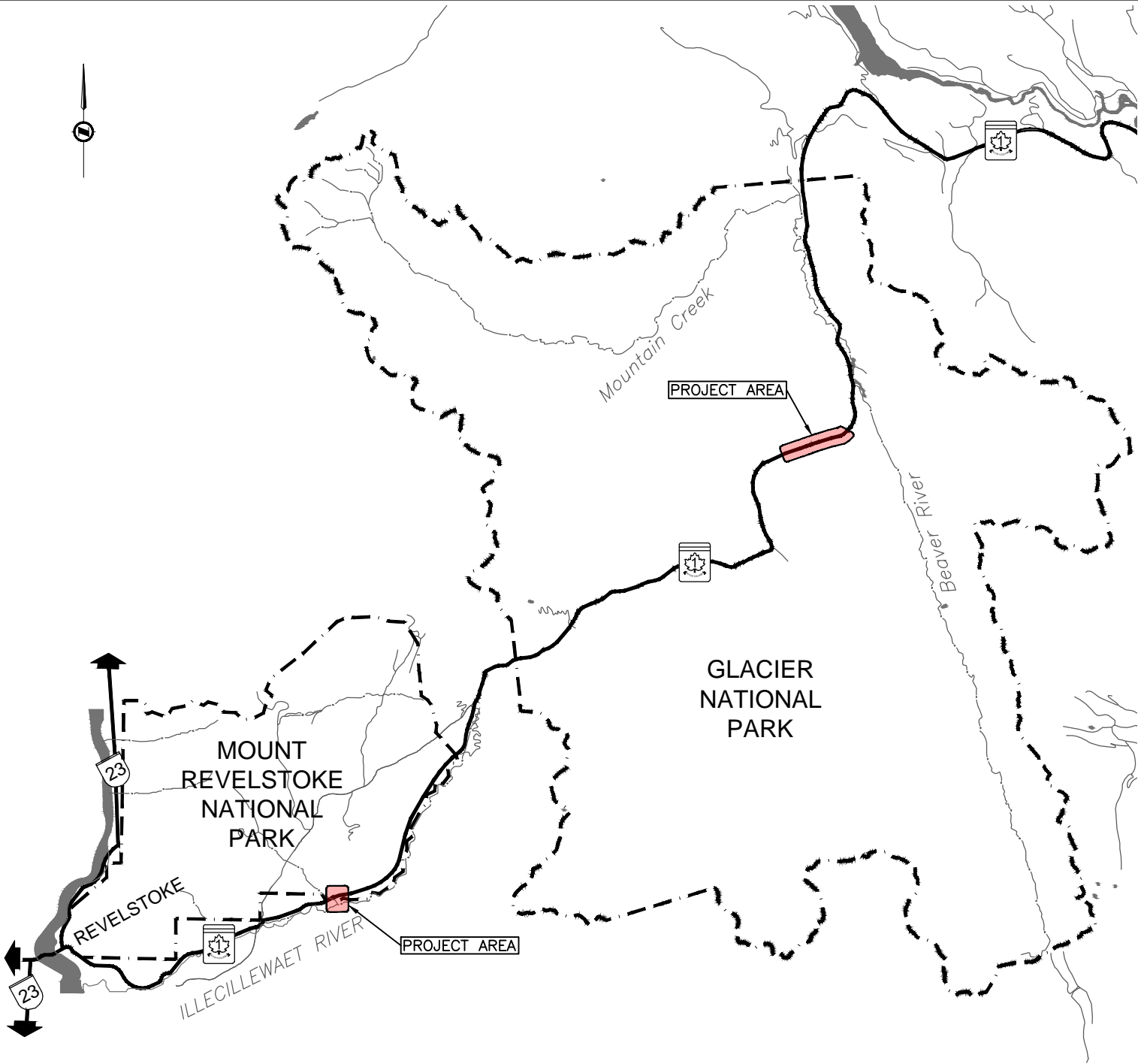
L'Agence Parcs Canada

**TRANS CANADA HIGHWAY
PAVEMENT REHABILITATION
& BARRIER IMPROVEMENTS**

**HIGHWAY 1
GLACIER NATIONAL PARK, BC
MOUNT REVELSTOKE NATIONAL PARK, BC**

ISSUED FOR TENDER

FILE: G:\PROJECTS\2511-01107-00-AVALANCHE MITIGATION\GNP\10.0 DRAWINGS\10.0 GNP BARRIERS\10.0 SHEET FILES\G-1107-002 LOC PAVING.DWG PLOTTED: 2022/06/21 1:53 PM



LOCATION PLAN

DRAWING INDEX					
SHEET NO	DRAWING NO	SUBSET	DRAWING TITLE		
000-GENERAL					
1	G-000		COVER		
2	G-002		LOCATION PLAN	LEGEND & DRAWING INDEX	
100-PAVEMENT REHABILITATION PLANS					
3	C-101	SITE PLAN	PAVEMENT TREATMENT	STA 15+680 TO STA 16+100	
4	C-102	SITE PLAN	PAVEMENT TREATMENT	STA 16+100 TO STA 17+400	
5	C-103	SITE PLAN	PAVEMENT TREATMENT	STA 17+400 TO STA 18+700	
6	C-104	SITE PLAN	PAVEMENT TREATMENT	STA 18+700 TO STA 19+900	
200-BARRIER FLARE PLANS					
7	C-201	BARRIER FLARE	LAYOUT PLAN	SITE 1 - KM 17.2	SITE 2 - KM 18.0
8	C-202	MOUNT REVELSTOKE	KM12.24 EX CSP REMOVAL	PLAN & SECTION	
300-TYPICAL DETAILS					
9	C-301	TYPICAL SECTIONS	PAVEMENT OVERLAY	& BARRIER FLARE WIDENING	
10	C-302	TYPICAL SECTIONS	MILLING, BARRIER,	& SPILLWAY DETAILS	

ALIGNMENT ABBREVIATIONS

BC - BEGINNING OF CURVE
EC - END OF CURVE
TC - TANGENT TO CURVE
TS - TANGENT TO SPIRAL
SC - SPIRAL TO CURVE
CS - CURVE TO SPIRAL
ST - SPIRAL TO TANGENT
CT - CURVE TO TANGENT
PCC - POINT OF COMPOUND CURVATURE
POT - POINT ON TANGENT
POC - POINT ON CURVE
POS - POINT ON SPIRAL
BVC - BEGINNING OF VERTICAL CURVE
EVC - END OF VERTICAL CURVE
PVI - POINT OF VERTICAL INTERSECTION
ELEV - ELEVATION
PI - POINT OF INTERSECTION
STA - STATION

MISCELLANEOUS ABBREVIATIONS

AT - ALBERTA TRANSPORTATION
BH - BORE HOLE
BW - BACK OF SIDEWALK
CB - CATCH BASIN
C&G - CURB AND GUTTER
CDB - CONCRETE DRAINAGE BARRIER
CI - CULVERT INLET
C.I.P. - CAST IN PLACE CONCRETE
CMB - CONCRETE MEDIAN BARRIER
CO - CULVERT OUTLET
CULV - CULVERT
DES - DESIGN
E.O.P. - EDGE OF PAVEMENT
EB - EASTBOUND
EX - EXISTING
INV - INVERT
LOG - LIP OF GUTTER
LS - LIGHT STANDARD
LT - LEFT TURN
MH - MANHOLE
MoTI - BC MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
NB - NORTHBOUND
N.I.C. - NOT IN CONTRACT
PROP - PROPOSED
PP - POWER POLE
RT - RIGHT TURN
S - SANITARY
SB - SOUTHBOUND
ST - STORM
W - WATER
WB - WESTBOUND

LEGEND

ROAD CONSTRUCTION

EXISTING	DESCRIPTION	PROPOSED
	CONTROL LINE AND STATIONING	T.S. 55+325.101 67+500
EW	EDGE OF WATER	
	TREE LINE	
	CANADIAN PACIFIC RAILWAY	
	GUARD RAIL C/W POSTS	
	EDGE OF GRAVEL ROAD	
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL SHOULDER	
1012.14	SUBGRADE ELEVATION	
	CONCRETE BARRIER	
	OVERLAY (50mm)	
	MILL & INLAY (50mm)	
	MILLED TIE IN	
	RECLAMITE SURFACE TREATMENT	
	BARRIER FLARE	
	DRAINAGE ROAD SIDE DITCH	
	CULVERT	
	TOP OF BANK	T.O.C.
	TOP OF CUT	
	BOTTOM OF FILL	B.O.F.
	TREELINE	
	GATE	
	FENCE LINE	
	POWER POLE	
	UNDERGROUND TEL & MANHOLE	
	POWER POLE WITH LIGHT	
	UTILITY POLE	
	ROAD SIGN (SINGLE POLE)	
	ROAD SIGN (MULTIPLE POLES)	
	ROAD SIGN (DOUBLESIDED)(SINGLE POLE)	
	ROAD SIGN (CANTILEVER)	
DP	DELINEATOR POLE	DP
	RETAINING WALL	
	STREETLIGHT	
	SURVEY CONTROL POINT	

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To	2022-06-03	ISSUED FOR TENDER	MMK	JH	DL
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

<div>A</div> <div>B</div> <div>C</div>	A detail number numéro de detail B source drawing no. de dessin no. C detail on drawing no. detail sur dessin no.	<div>A</div> <div>B</div> <div>C</div>
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Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client		
	Parks Canada Agency	L'Agence Parcs Canada

Consultant's Name Nom de l'expert-conseil	
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Project Title Titre du projet	TRANS CANADA HIGHWAY PAVEMENT REHABILITATION & BARRIER IMPROVEMENTS GLACIER NATIONAL PARK, BC MOUNT REVELSTOKE NATIONAL PARK, BC
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Drawing Title Titre du dessin	LOCATION PLAN LEGEND & DRAWING INDEX
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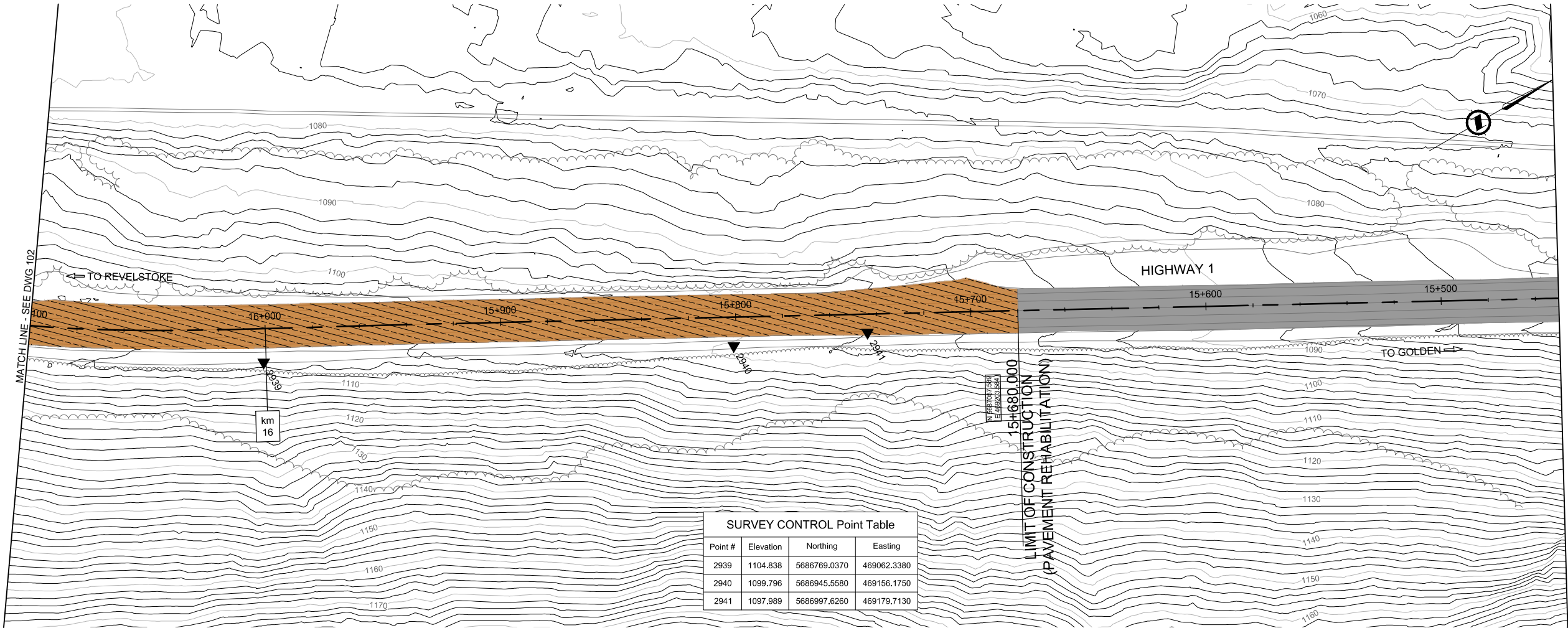
Surveyed by / Arpenté par McELHANNEY	Drawn by / Dessiné par MMK	Date 2022-06-03
Designed by / Conçu par JH	Reviewed by / Révisé par DL	Scale / Echelle NOT TO SCALE

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Client Acceptance / Acceptation du client		Approved by / Approuvé par

Project No. / No. du projet 2511-01292-00	Asset No. / No. du bien	Sheet No. No. de la feuille 2
Drawing Reference No. / No. de référence du dessin G-002		

FILE: G:\PROJECTS\2511-01\107-00-AVALANCHE MITIGATION\GNP\100-DRAWINGS\100-GNP-BARRIERS\100-SHEET FILES\C-1107-00-PLANS.DWG PLOTTED: 2022/06/03 1:48 PM



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LEGEND

- OVERLAY (50mm)
- MILLED TIE-IN
- MILL & INLAY (50mm)
- PROPOSED RECLAMITE SURFACE TREATMENT
- REMOVE AND DISPOSE OF EX BARRIER
- PROPOSED BARRIER FLARE

0 1:1,000 50

T0	2022-06-03	ISSUED FOR TENDER	MMK	JH	DL
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de dessin no.
C detail on drawing no.
détail sur dessin no.



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Client
Parks Canada Agency L'Agence Parcs Canada

Consultant's Name Nom de l'expert-conseil

Project Title Titre du projet
TRANS CANADA HIGHWAY PAVEMENT REHABILITATION & BARRIER IMPROVEMENTS HIGHWAY 1 GLACIER NATIONAL PARK, BC

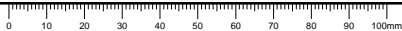
Drawing Title Titre du dessin
SITE PLAN PAVEMENT TREATMENT STA 15+680 TO STA 16+100

Surveyed by / Arpenté par McELHANNEY	Drawn by / Dessiné par MMK	Date 2022-06-03
Designed by / Conçu par JH	Reviewed by / Révisé par DL	Scale / Echelle 1:1000

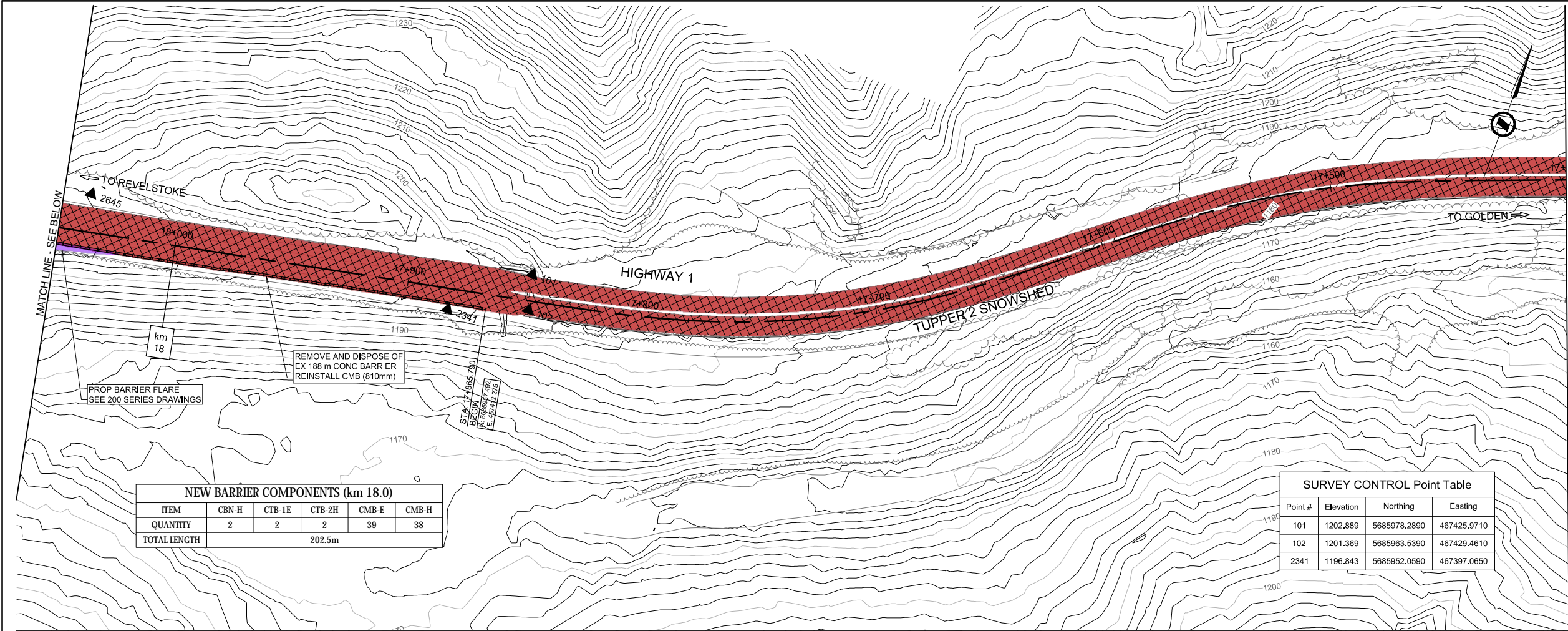
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Project No. / No. du projet 2511-01292-00	Asset No. / No. du-bien	Sheet No. / No. de la feuille 3
Drawing Reference No. / No. de référence du dessin C-101		



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MATCH LINE - SEE DWG 102

NEW BARRIER COMPONENTS (km 18.0)					
ITEM	CBN-H	CTB-1E	CTB-2H	CMB-E	CMB-H
QUANTITY	2	2	2	39	38
TOTAL LENGTH	202.5m				

SURVEY CONTROL Point Table				
Point #	Elevation	Northing	Easting	
101	1202.889	5685978.2890	467425.9710	
102	1201.369	5685963.5390	467429.4610	
2341	1196.843	5685952.0590	467397.0650	

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LEGEND

- OVERLAY (50mm)
- MILLED TIE-IN
- MILL & INLAY (50mm)
- PROPOSED RECLAMITE SURFACE TREATMENT
- REMOVE AND DISPOSE OF EX BARRIER
- PROPOSED BARRIER FLARE

0 1:1,000 50

Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé



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de dessin no.
detail on drawing no.
detail sur dessin no.



Consultant's Stamp
Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur



Client

Parks Canada Agency
L'Agence Parcs Canada

Consultant's Name
Nom de l'expert-conseil



Project Title
Titre du projet

**TRANS CANADA HIGHWAY
PAVEMENT REHABILITATION
& BARRIER IMPROVEMENTS**
HIGHWAY 1
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

**SITE PLAN
PAVEMENT TREATMENT
STA 17+400 TO STA 18+700**

Surveyed by / Arpenté par McELHANNEY	Drawn by / Dessiné par MMK	Date 2022-06-03
Designed by / Conçu par JH	Reviewed by / Révisé par DL	Scale / Echelle 1:1000

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Parks Canada Project Manager / Administrateur de Projets Parcs Canada

Project No. / No. du projet

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Sheet No.
No. de la feuille

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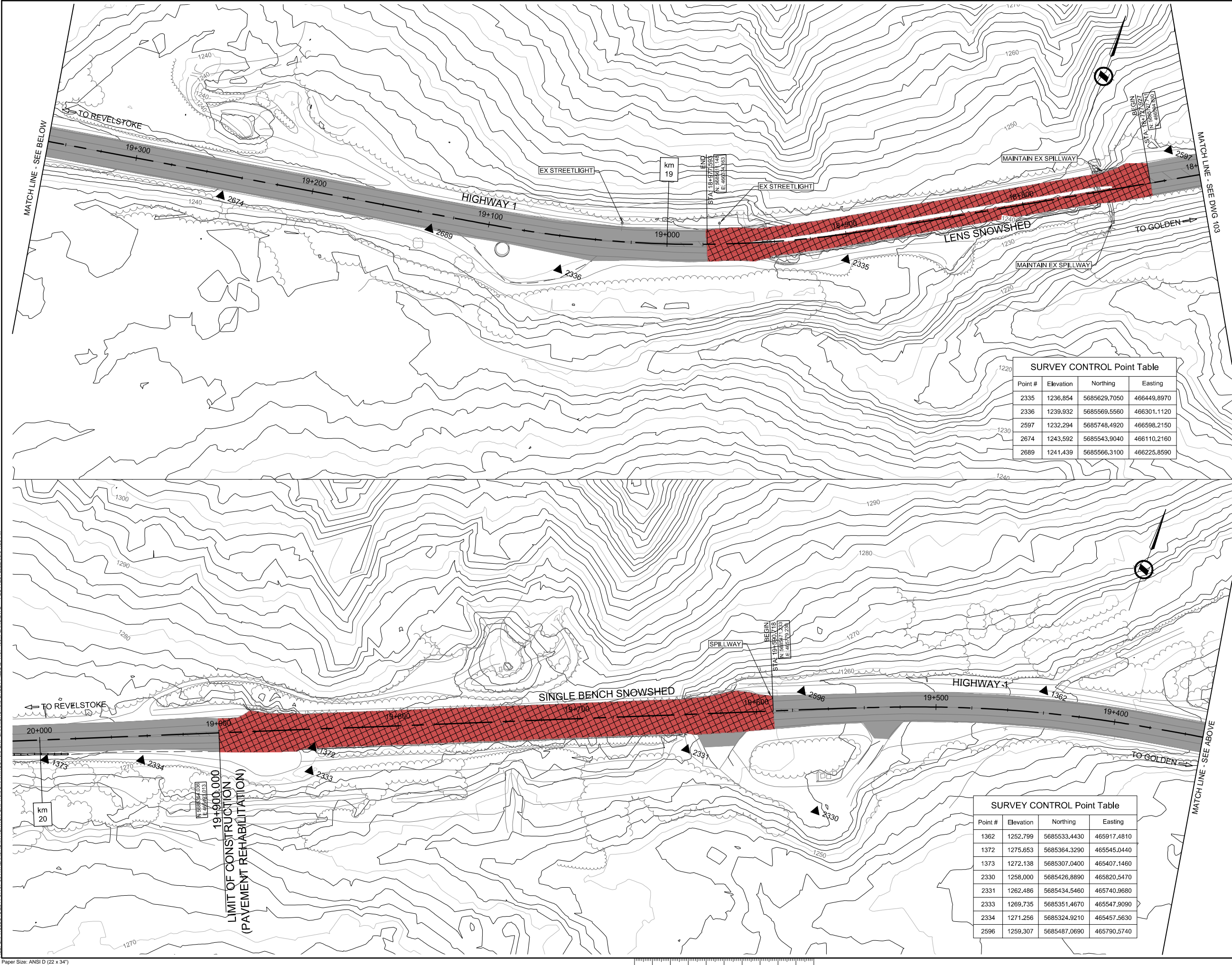
Drawing Reference No. / No. de référence du dessin

C-103

SURVEY CONTROL Point Table				
Point #	Elevation	Northing	Easting	
2337	1230.876	5685754.8910	466657.5970	
2338	1225.571	5685837.0570	466802.6680	
2339	1221.075	5685880.3860	466919.6360	
2340	1207.939	5685916.8040	467214.4440	
2590	1228.745	5685805.1720	466708.3700	
2600	1225.010	5685874.9760	466833.0080	
2751	1221.131	5685884.4210	466923.3080	

0 10 20 30 40 50 60 70 80 90 100mm

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LEGEND

- OVERLAY (50mm)
- MILLED TIE-IN
- MILL & INLAY (50mm)
- PROPOSED RECLAMITE SURFACE TREATMENT
- REMOVE AND DISPOSE OF EX BARRIER
- PROPOSED BARRIER FLARE

0 1:1,000 50

TO	2022-06-03	ISSUED FOR TENDER	MMK	JH	DL
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé

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C

A

detail number
numéro de detail

B

source drawing no.
de dessin no.

C

detail on drawing no.
detail sur dessin no.

Consultant's Stamp
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Eng. Stamp
Sceau de l'ingénieur

Parks Canada Agency

L'Agence Parcs Canada

Consultant's Name
Nom de l'expert-conseil

McElhanney

Project Title
Titre du projet

**TRANS CANADA HIGHWAY
PAVEMENT REHABILITATION
& BARRIER IMPROVEMENTS**
HIGHWAY 1
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

**SITE PLAN
PAVEMENT TREATMENT
STA 18+700 TO STA 19+900**

Surveyed by / Arpenté par	Drawn by / Dessiné par	Date
McELHANNEY	MMK	2022-06-03
Designed by / Conçu par	Reviewed by / Révisé par	Scale / Echelle
JH	DL	1:1000

Parks Canada Project Manager / Administrateur de Projets Parcs Canada

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<div>Parks Canada Responsable Office / Agent Responsable Parcs Canada</div>	<div>Parks Canada Project Manager / Administrateur de Projets Parcs Canada</div>

Project No. / No. du projet	Asset No. / No. du bien	Sheet No. / No. de la feuille
2511-01292-00		6

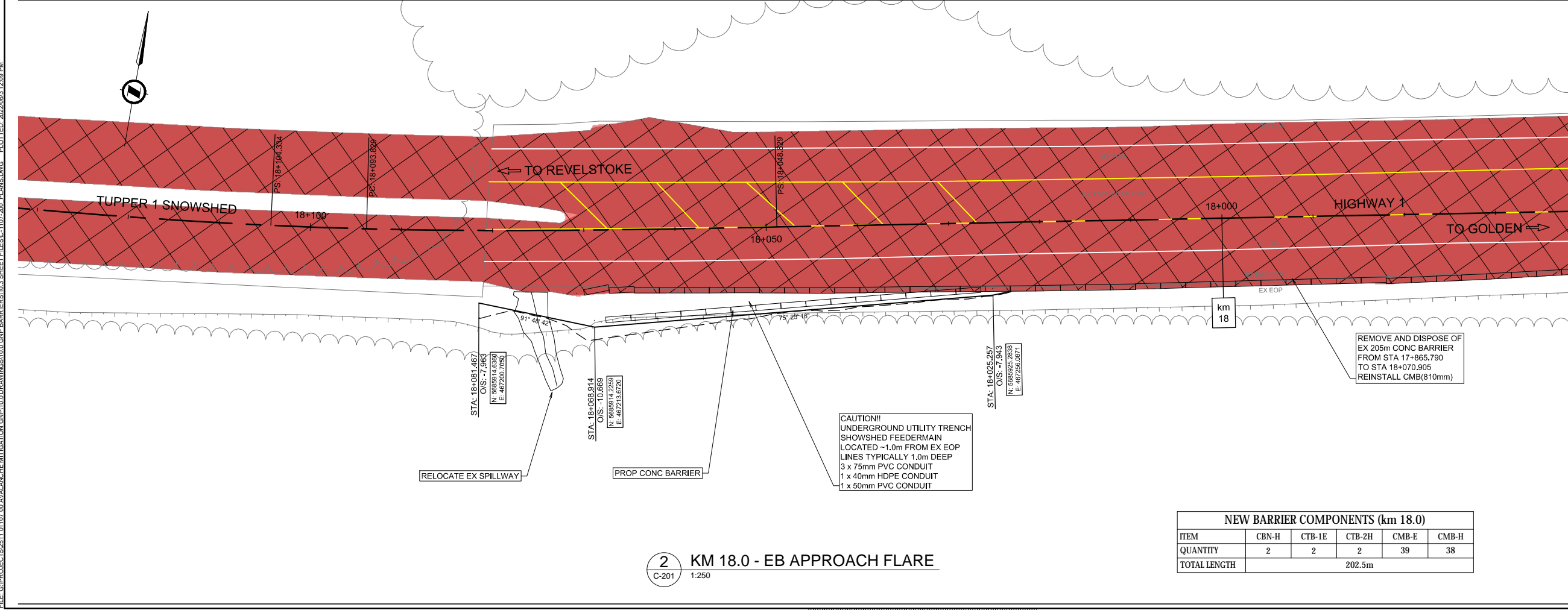
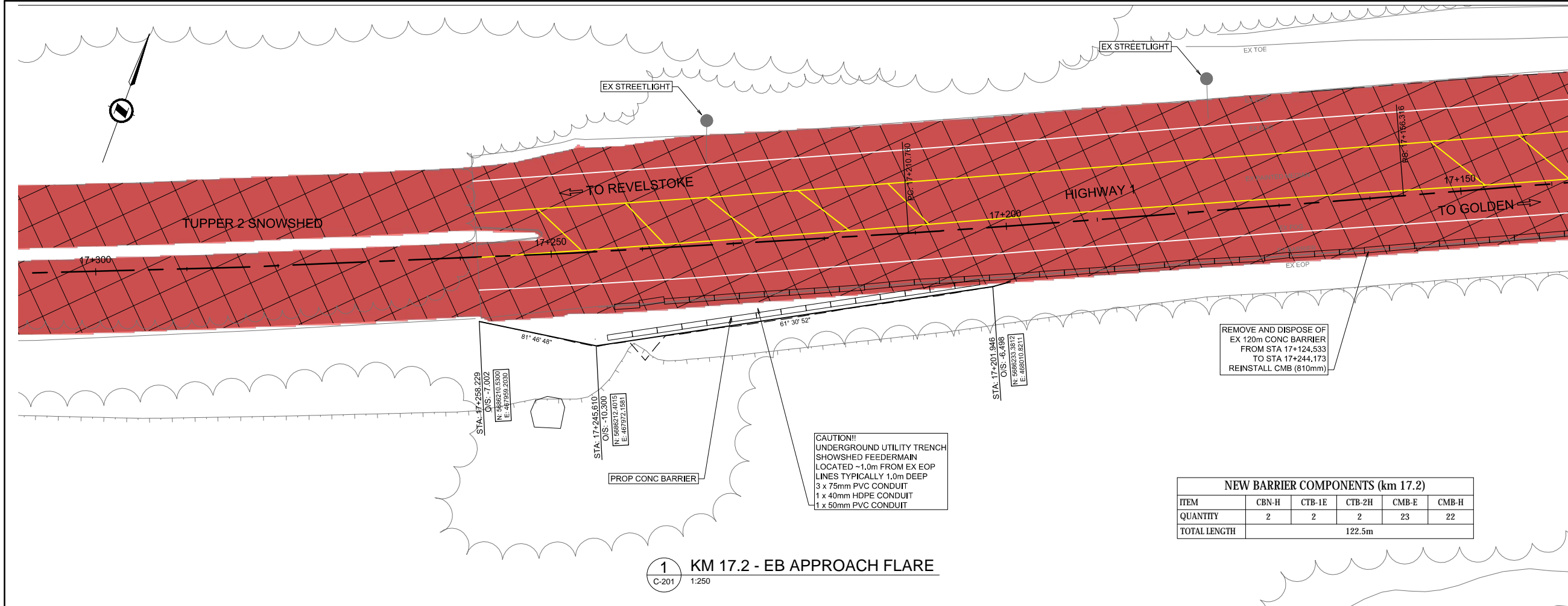
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C-104

Paper Size: ANSI D (22 x 34")

0 10 20 30 40 50 60 70 80 90 100mm

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LEGEND

MILL & INLAY (50mm)

0 1:250 10

TO	2022-06-03	ISSUED FOR TENDER	MMK	JH	DL
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C

A

detail number
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B

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C

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detail sur dessin no.

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Sceau de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

Client

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L'Agence Parcs Canada

Consultant's Name
Nom de l'expert-conseil

Project Title
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TRANS CANADA HIGHWAY
PAVEMENT REHABILITATION
& BARRIER IMPROVEMENTS
HIGHWAY 1
GLACIER NATIONAL PARK, BC

Drawing Title
Titre du dessin

BARRIER FLARE
LAYOUT PLAN
SITE 1 - KM 17.2
SITE 2 - KM 18.0

Surveyed by / Arpenté par
McELHANNEY

Drawn by / Dessiné par
MMK

Date
2022.06.03

Designed by / Conçu par
JH

Reviewed by / Révisé par
DL

Scale / Echelle
1:250

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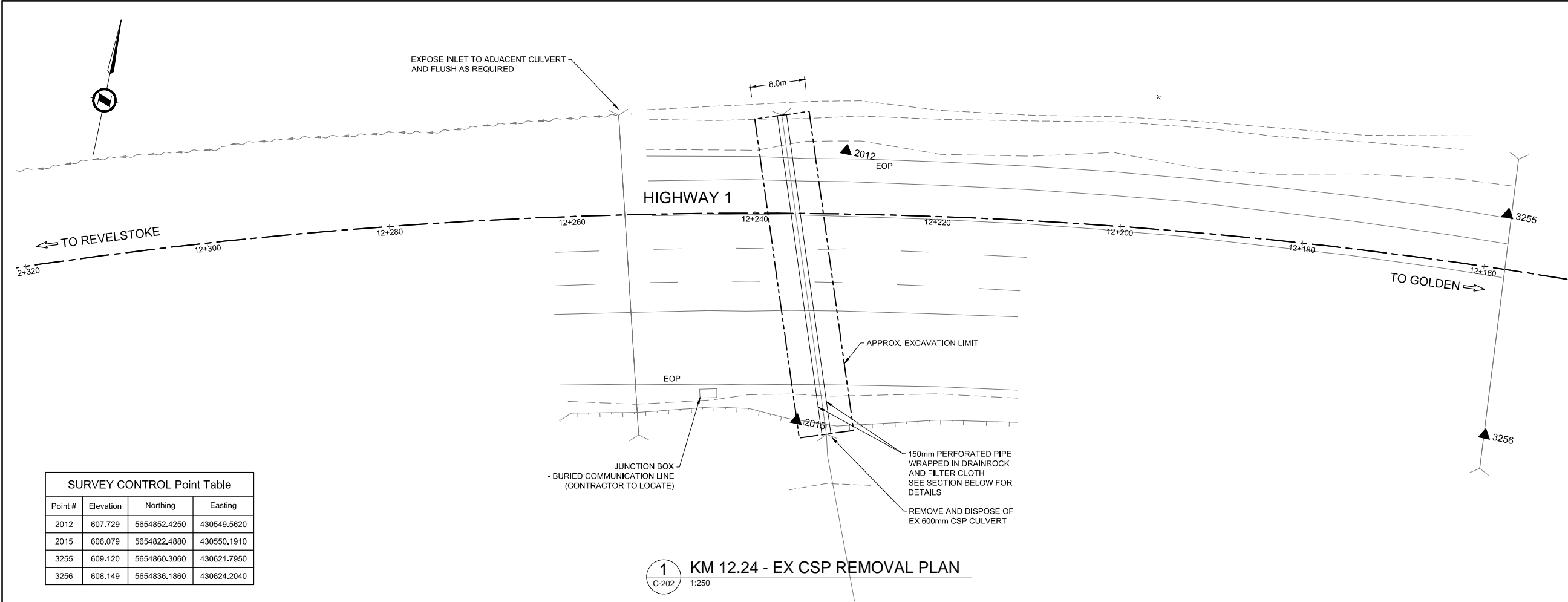
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Sheet No.
No. de la feuille
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Drawing Reference No. / No. de référence du dessin

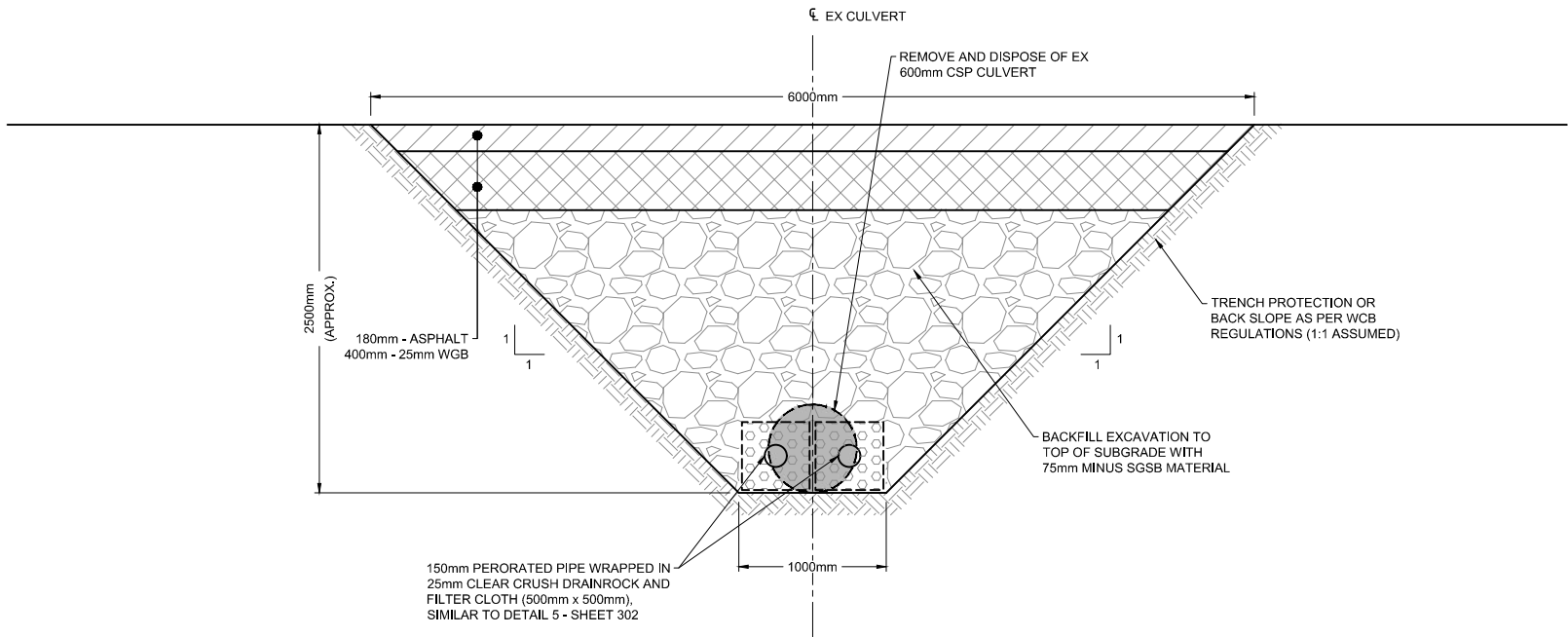
C-201

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SURVEY CONTROL Point Table			
Point #	Elevation	Northing	Easting
2012	607.729	5654852.4250	430549.5620
2015	606.079	5654822.4880	430550.1910
3255	609.120	5654860.3060	430621.7950
3256	608.149	5654836.1860	430624.2040

1 KM 12.24 - EX CSP REMOVAL PLAN
C-202 1:250



2 KM 12.24 - EX CSP REMOVAL SECTION
C-202 1:25

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0 1:250 10

T0	2022-06-03	ISSUED FOR TENDER	MMK	JH	DL
Rev.	Date	Description	Drawn Dessiné	Designed Conçu	Approved Approuvé



A detail number
B numéro de détail
C source drawing no.
de dessin no.
detail on drawing no.
détail sur dessin no.



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

Client
Parks Canada Agency L'Agence Parcs Canada

Consultant's Name Nom de l'expert-conseil

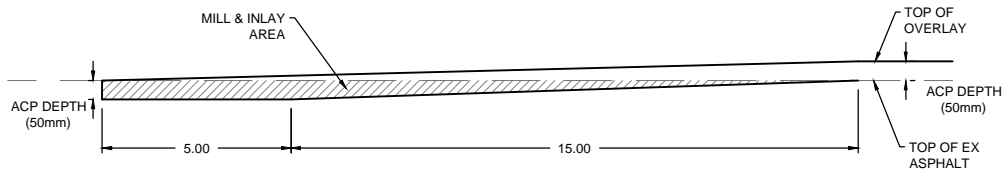
Project Title Titre du projet
TRANS CANADA HIGHWAY PAVEMENT REHABILITATION & BARRIER IMPROVEMENTS HIGHWAY 1 MOUNT REVELSTOKE NATIONAL PARK, BC

Drawing Title Titre du dessin
MOUNT REVELSTOKE KM 12.24 EX CSP REMOVAL PLAN & SECTION

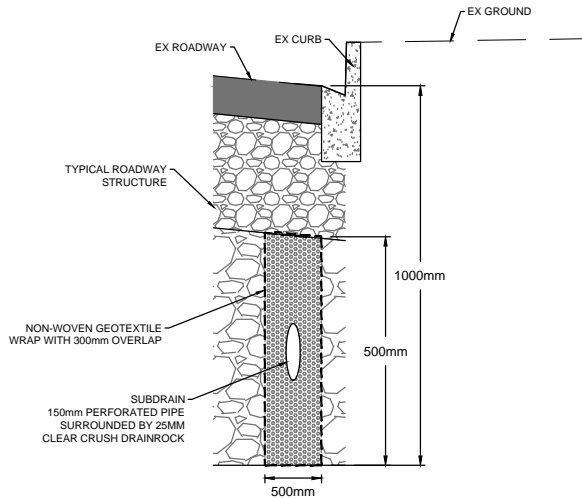
Surveyed by / Arpenté par McELHANNEY	Drawn by / Dessiné par MMK	Date 2022-06-03
Designed by / Conçu par JH	Reviewed by / Révisé par DL	Scale / Echelle AS NOTED

Parks Canada Project Manager / Administrateur de Projets Parcs Canada		
Client Acceptance / Acceptation du client	Approved by / Approuvé par	
Parks Canada Responsable Officiel / Agent Responsable Parcs Canada	Parks Canada Project Manager / Administrateur de Projets Parcs Canada	
Project No. / No. du projet 2511-01292-00	Asset No. / No. du bien	Sheet No. No. de la feuille 8
Drawing Reference No. / No. de référence du dessin C-202		

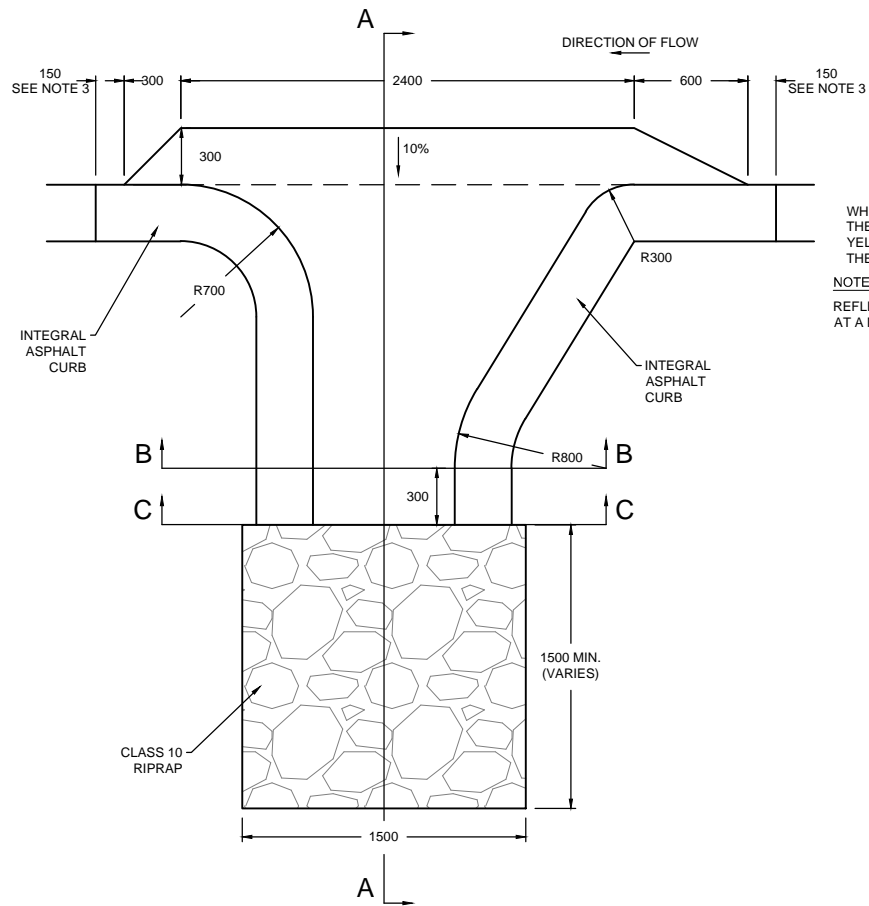
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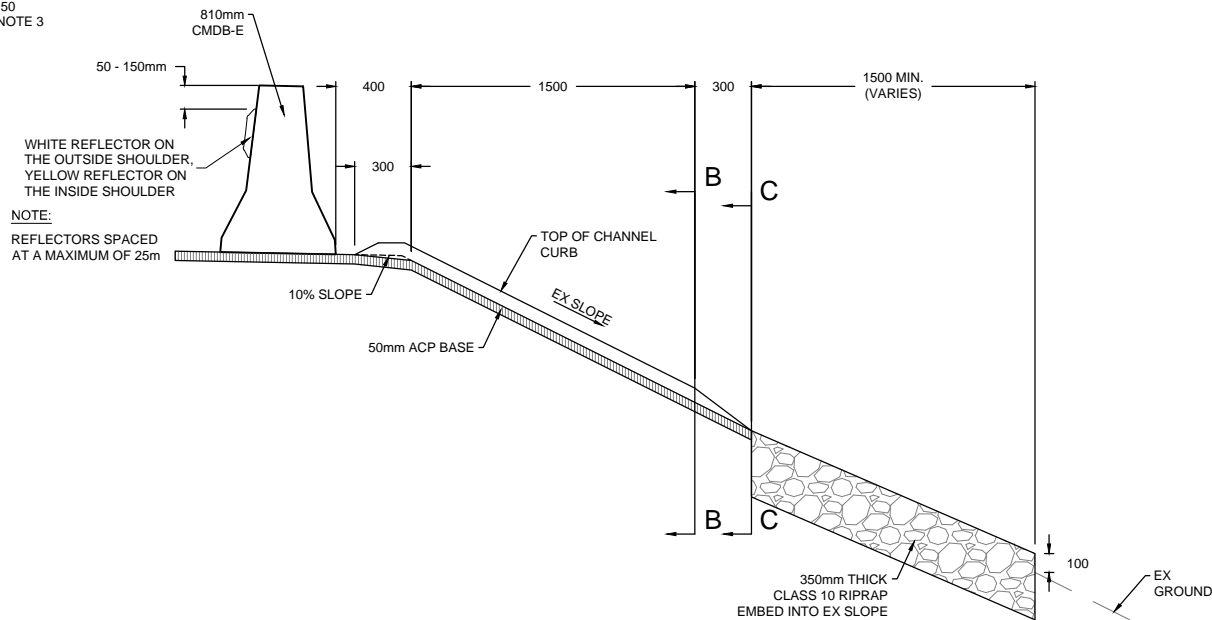
4 TYPICAL MILLING TIE-IN (LONGITUDINAL)
C-302 1:100



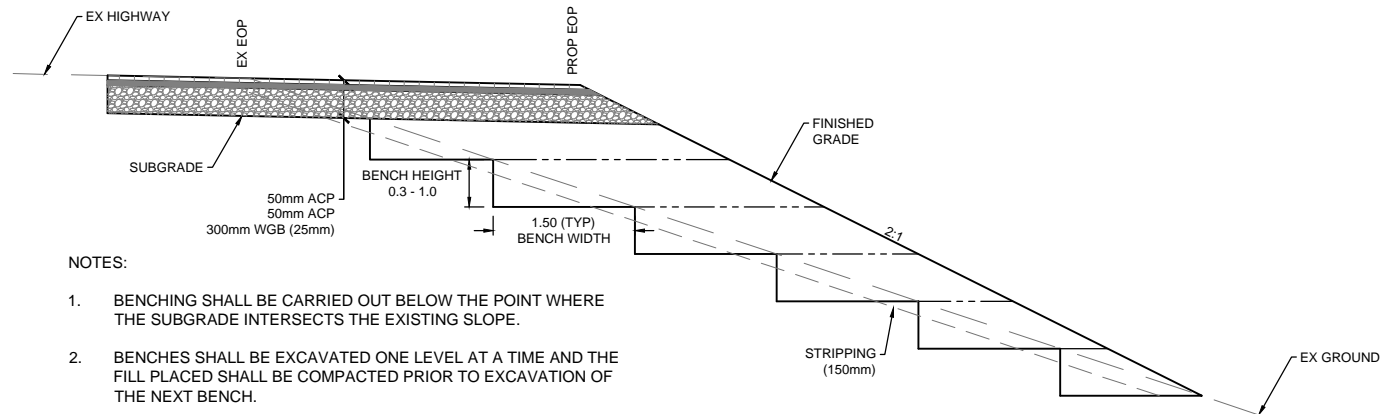
5 TYPICAL SUBDRAIN PLACEMENT
C-302 1:40 (V.E.) 4:1



8 TYPICAL ASPHALT SPILLWAY - PLAN
C-302 1:20



A SECTION A-A: ASPHALT SPILLWAY
C-302 1:40



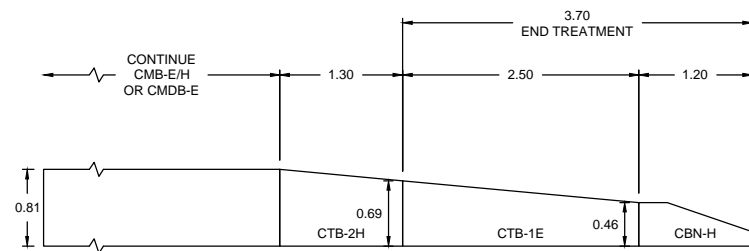
NOTES:

- BENCHING SHALL BE CARRIED OUT BELOW THE POINT WHERE THE SUBGRADE INTERSECTS THE EXISTING SLOPE.
- BENCHES SHALL BE EXCAVATED ONE LEVEL AT A TIME AND THE FILL PLACED SHALL BE COMPACTED PRIOR TO EXCAVATION OF THE NEXT BENCH.
- BENCHING IS NOT REQUIRED ON SLOPES FLATTER THAN 3:1.
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.

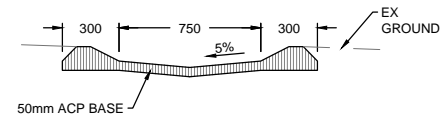
6 TYPICAL SLOPE BENCHING
C-302 1:20

NOTES:

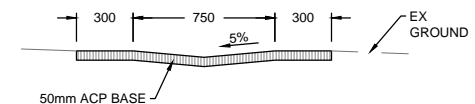
- REFER TO BC MOTI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 941 FOR STANDARD BARRIER DRAWINGS.
- DRAINAGE BARRIER PIECES (CMB-E) SHALL BE INSTALLED AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.



7 TYPICAL BARRIER END TREATMENT
C-302 1:40



B SECTION B-B: ASPHALT SPILLWAY
C-302 1:40



C SECTION C-C: ASPHALT SPILLWAY
C-302 1:40

NOTES:

- SPILLWAYS ARE TO BE LOCATED AT THE DOWNHILL END OF INTEGRAL ASPHALT CURBS OR BARRIER STRINGS.
- ADDITIONAL SPILLWAYS SHALL BE PROVIDED AT 100m INTERVALS ALONG CURBS AND BARRIERS.
- INTEGRAL ASPHALT CURB SHALL BE FORMED AT DRAINAGE BARRIER OUTLETS USING A 150mm TRANSITION.
- SPILLWAYS ARE NOT REQUIRED WHERE ROADWAY GRADE IS FLATTER THAN 3%.

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B	numero de detail	B
C	source drawing no.	C
	de dessin no.	
	detail on drawing no.	
	detail sur dessin no.	

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

Client
Parks Canada Agency L'Agence Parcs Canada

Consultant's Name Nom de l'expert-conseil

Project Title Titre du projet
TRANS CANADA HIGHWAY PAVEMENT REHABILITATION & BARRIER IMPROVEMENTS GLACIER NATIONAL PARK, BC MOUNT REVELSTOKE NATIONAL PARK, BC

Drawing Title Titre du dessin
TYPICAL SECTIONS MILLING, BARRIER, & SPILLWAY DETAILS

Surveyed by / Arpenté par McELHANNEY	Drawn by / Dessiné par MMK	Date 2022-06-03
Designed by / Conçu par JH	Reviewed by / Révisé par DL	Scale / Echelle AS NOTED

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Client Acceptance / Acceptation du client		Approved by / Approuvé par
Project No. / No. du projet 2511-01292-00		Asset No. / No. du bien Sheet No. / No. de la feuille 10
Drawing Reference No. / No. de référence du dessin C-302		