



for / pour



Parks Canada
Agency

L'Agence Parcs
Canada

ROAD CONSTRUCTION
HIGHWAY 93 SOUTH
PAVING AND SAFETY IMPROVEMENTS
KM 32.00 TO KM 40.56

KOOTENAY NATIONAL PARK, BRITISH COLUMBIA

ISSUED FOR TENDER

PROJECT NO. 67308

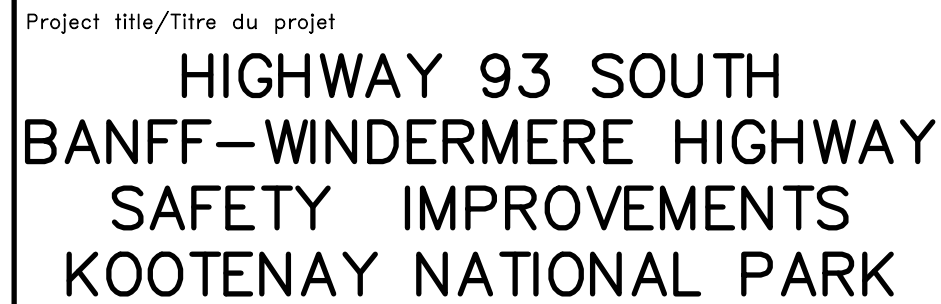
APRIL 2019

00-G1-C01



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LOCATION MAP, KEY PLAN AND DRAWING INDEX

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet 67308	Asset No./N° du bien	Sheet No./ N° de la feuille C02
Drawing Set No./N° de série du dessin 60570877-G1		

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ALIGNMENT ABBREVIATIONS

BC – BEGINNING OF CURVE
EC – END OF CURVE
TS – TANGENT TO SPIRAL
SC – SPIRAL TO CURVE
CS – CURVE TO SPIRAL
ST – SPIRAL 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
B.O.F. – BOTTOM OF FILL
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
CRB – CONCRETE ROAD BARRIER
CULV – CULVERT
DES – DESIGN
EB – EASTBOUND
EOP – EDGE OF PAVEMENT
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
T.O.C. – TOP OF CUT
W – WATER
WB – WESTBOUND

LEGEND

ROAD CONSTRUCTION

EXISTING	DESCRIPTION	PROPOSED
	CONTROL POINT & ID	△ CTRL1455
	CONTROL MONUMENT & ID	● MON2757
	CONTROL BENCHMARK & ID	⊠ BM2738
	BORE HOLE & ID	⬮ 2015B–BH44
	TEST HOLE & ID	● TH2756
	CONTROL LINE AND STATIONING	67+500 +
	ALIGNMENT GEOMETRY POINTS & STATIONING	T.S. 55+325.101○
EW	EDGE OF WATER	
	TREE LINE	
	CANADIAN PACIFIC RAILWAY	
	GUARDRAIL C/W POSTS	—○—○—○—
	EDGE OF GRAVEL ROAD	— — — —
	EDGE OF PAVEMENT	— — — —
	EDGE OF GRAVEL SHOULDER	— — — —
1012.14 ⊠	SUBGRADE ELEVATION	
	CURB AND GUTTER	=====
	CONCRETE BARRIER	=====
	DRAINAGE BARRIER	DB DB
	TOP OF CUT	--- T.O.C. ---
	BOTTOM OF FILL	--- B.O.F. ---
	70 mm PAVEMENT OVERLAY	=====
	PAVEMENT MILLING AND INLAY	=====
	MILLED TIE IN	=====
	FULL DEPTH PAVEMENT	=====
	SUBGRADE PREPARATION BASE & PAVEMENT	=====
	DRAINAGE SIDE DITCH	-----
	DRAINAGE MEDIAN DITCH	-----
	CULVERT	=====
	CONCRETE BOX CULVERT	=====
	DITCH BLOCK	□
	CATCH BASIN AND LEAD	□ —
	BARRIER DRAIN AND LEAD c/w SPLASH PAD	BD OR BD
	ASPHALT SPILLWAY c/w SPLASH PAD	
	RETAINING WALL	-----
	WILDLIFE FENCING	— x — x —
	WILDERNESS ZONE BOUNDARY	— WZB —
	CLEARING LINE	— ... —
	GATE	=====
	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)	— — — —
	GUIDE POST	■ DP

ENVIRONMENTAL CLASS

	ARCHEOLOGICAL & CULTURAL AREA:
	PROJECT RISK – HIGH
	PROJECT RISK – MODERATE
	PROJECT RISK – NEGLIGIBLE
	AQUATIC SENSITIVITY:
	FISH BEARING, GOOD HABITAT
	FISH BEARING UNCERTAIN, GOOD HABITAT
	NOT FISH BEARING, POTENTIAL HABITAT
	NO HABITAT

	VEGETATION ELEMENTS OF MANAGEMENT CONCERN:
	PROJECT RISK – HIGH
	PROJECT RISK – MODERATE
	PROJECT RISK – LOW
	PROJECT RISK – NEGLIGIBLE

	RARE PLANTS:
	1: FEDERALLY PROTECTED SPECIES AT RISK
	2: PROVINCIAL RARE SPECIES OR ECOLOGICAL COMMUNITY
	3: PROVINCIAL RARE SPECIES OR ECOLOGICAL COMMUNITY

	NOXIOUS PLANT WEEDS:
	SPECIES CATEGORY 0 – NUMBER & NAME
	SPECIES CATEGORY 1 – NUMBER & NAME
	SPECIES CATEGORY 2 – NUMBER & NAME
	SPECIES CATEGORY 3 – NUMBER & NAME
	SPECIES CATEGORY 4 – NUMBER & NAME
	SPECIES CATEGORY 5 – NUMBER & NAME

	ANIMALS AT RISK:
	SPECIES CATEGORY 1 – NAME
	SPECIES CATEGORY 2 – NAME
	SPECIES CATEGORY 3 – NAME

1	19.05.22	ISSUED FOR ADDENDUM 1	AU	RL
0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision	
A B	Detail number Sheet number A Numéro de détail B Numéro de la feuille
Linear dimensions in millimetres Dimensions linéaires en millimètres	
Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
AECOM	

🇨🇦	Parks Canada Asset Management Western and Northern Region	Parcs Canada Gestion des biens Région de l'Ouest et du Nord
Canada		

Project title/Titre du projet
HIGHWAY 93 SOUTH BANFF–WINDERMERE HIGHWAY SAFETY IMPROVEMENTS KOOTENAY NATIONAL PARK

Drawing title/Titre du dessin		
LEGEND		
Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019–04–18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille
Drawing Set No./Nº de série du dessin 60570877–G1		C03

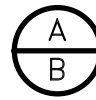
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NOTES:

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- CONTRACTOR TO CONFIRM EXISTING AND RELOCATED SIGNS MEET CURRENT REFLECTIVITY STANDARDS.
- CONTRACTOR TO REMOVE DEBRIS FROM ALL EXISTING CULVERTS WITHIN THE PROJECT LIMITS.

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0	19.04.18	ISSUED FOR TENDER	AU	RL

Revision / Revision



Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

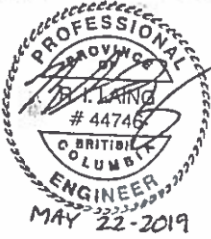
Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

AECOM



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

**PLAN
STA 32+000 TO STA 33+050**

Surveyed by/Arpenté par
JM

Drawn by/Dessiné par
AU

Date
2019-04-18

Designed by/Concept par
RL

Reviewed by/Revisé par
BAS

Scale/Echelle
0 25 m

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Date

Project No./N° du projet

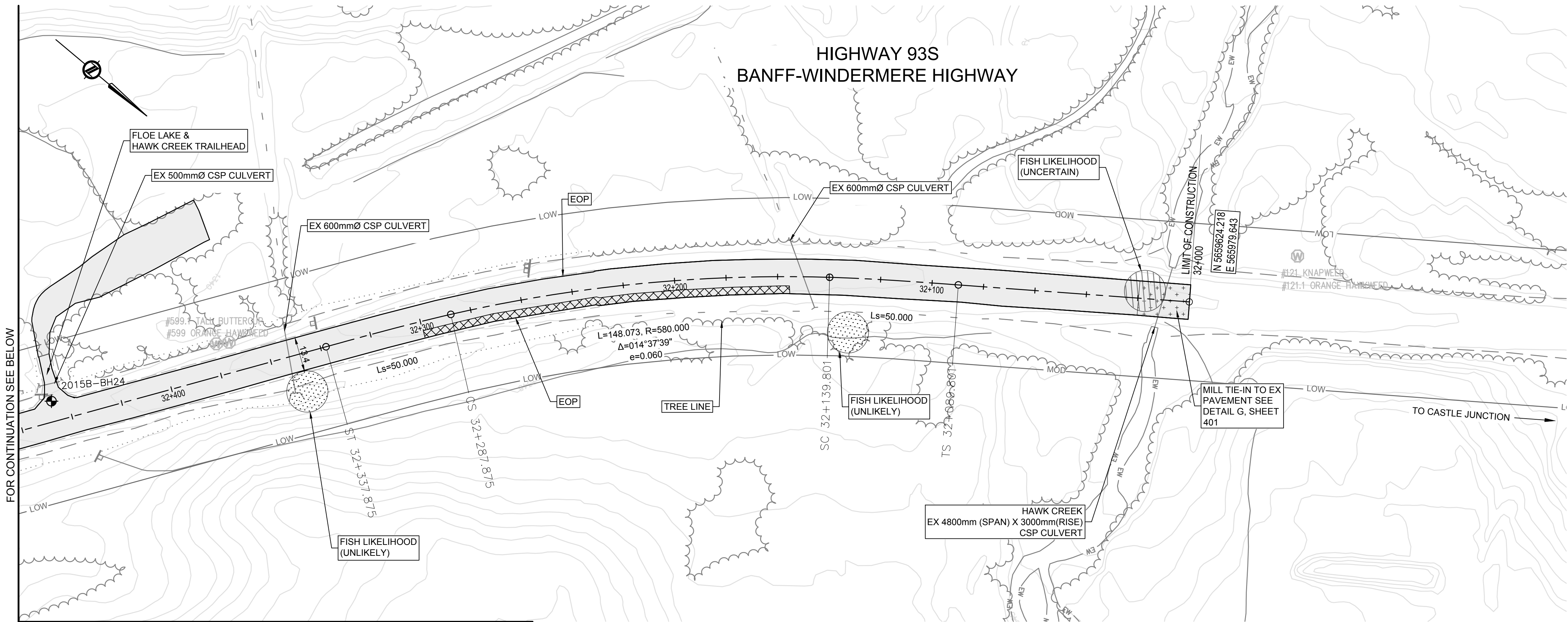
67308

Asset No./N° du bien

Drawing Set No./N° de série du dessin
60570877-C2

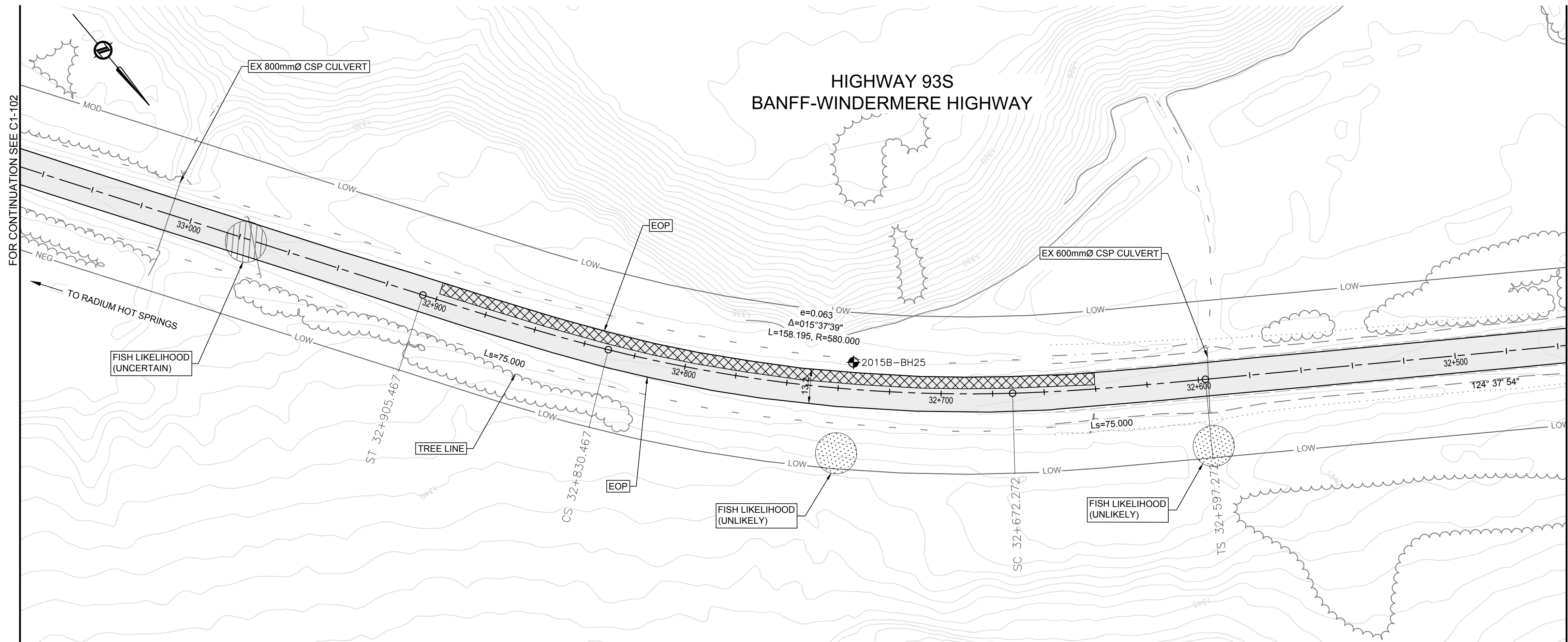
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N° de la feuille

101



CORRIDOR DESIGN SPEED

HIGHWAY 93S 100 km/h STA 32+000 TO STA 33+050



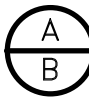
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0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision



Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

AECOM



Parks Canada
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Western and
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Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

**PLAN
STA 33+050 TO STA 34+250**

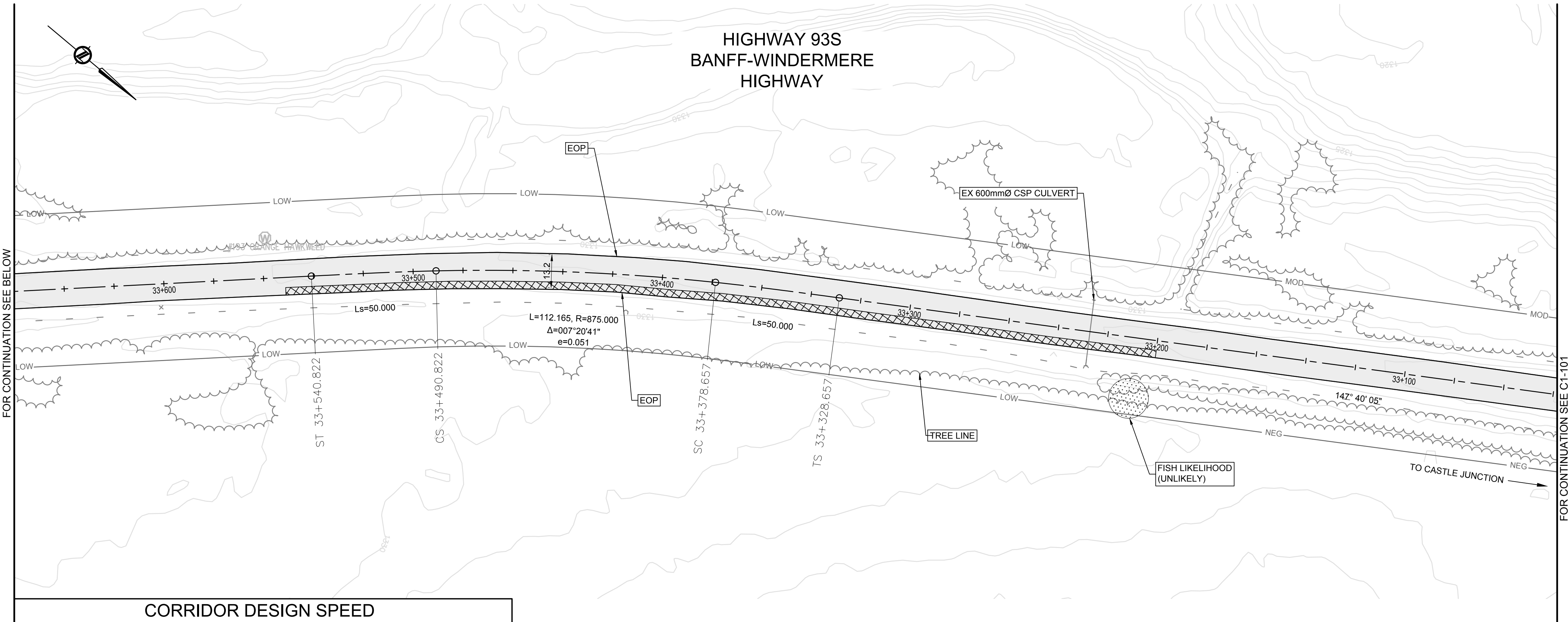
Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 25 m

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Date	Date

Project No./N° du projet 67308	Asset No./N° du bien	Sheet No./ N° de la feuille
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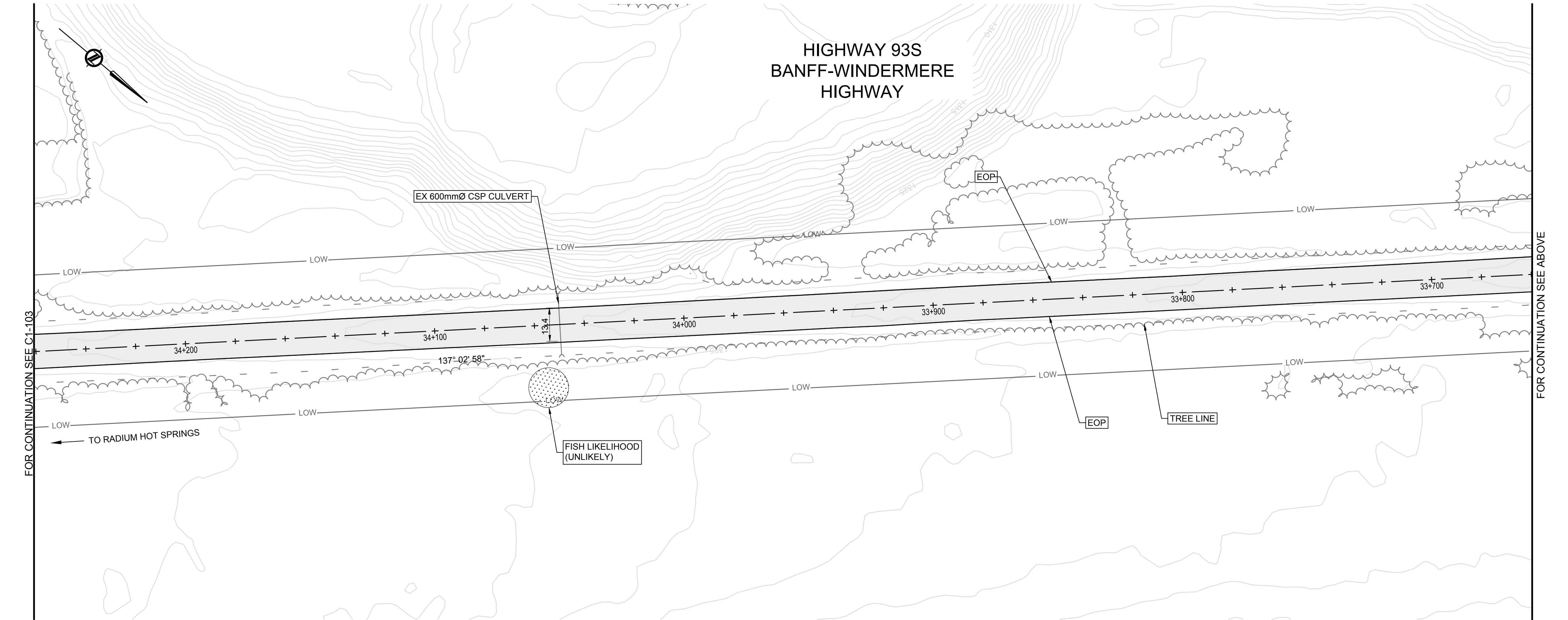
Drawing Set No./N° de série du dessin
60570877-C2

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CORRIDOR DESIGN SPEED

HIGHWAY 93S | 100 km/h | STA 33+050 TO STA 34+250



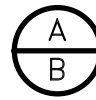
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0	19.04.18	ISSUED FOR TENDER	AU	RL
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Detail number
Sheet number

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B Numéro de la feuille

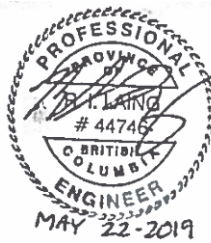
Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

AECOM



Parks Canada
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Western and
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Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

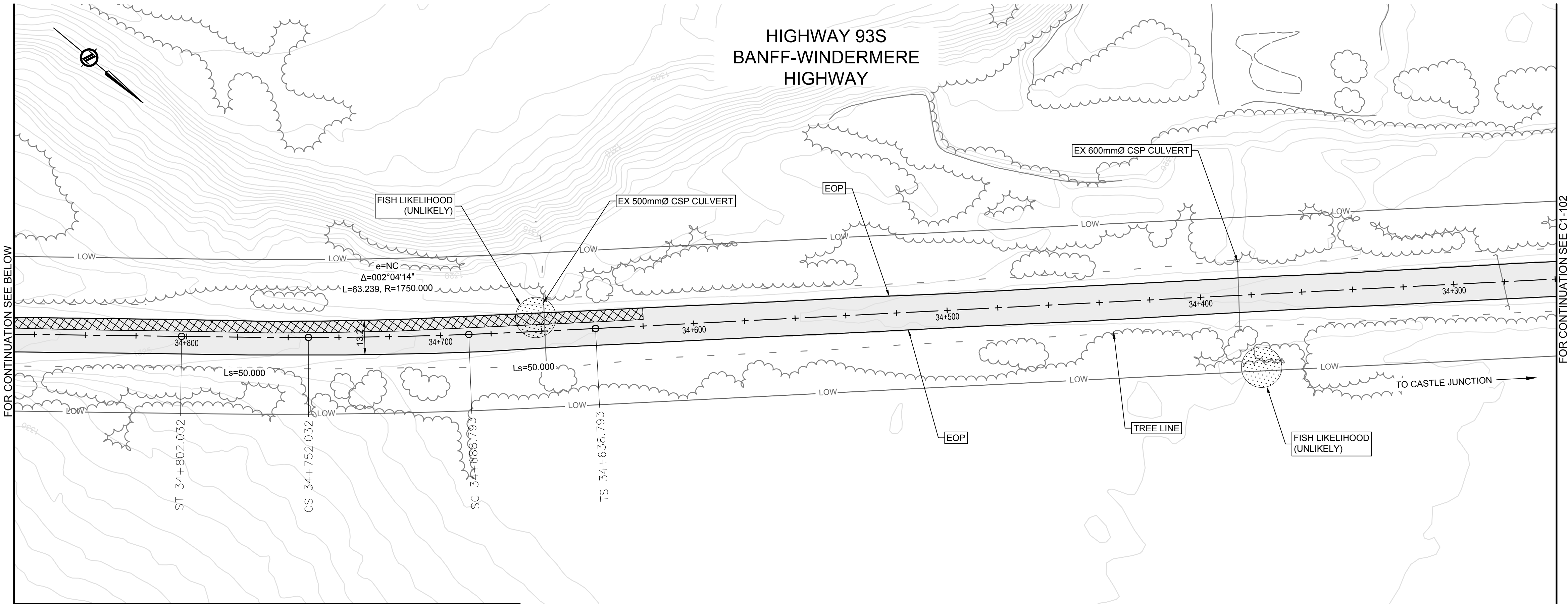
**PLAN
STA 34+250 TO STA 35+450**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 25 m

Client Acceptance/Acceptation du client Date	Approved by/Approuvé par Date
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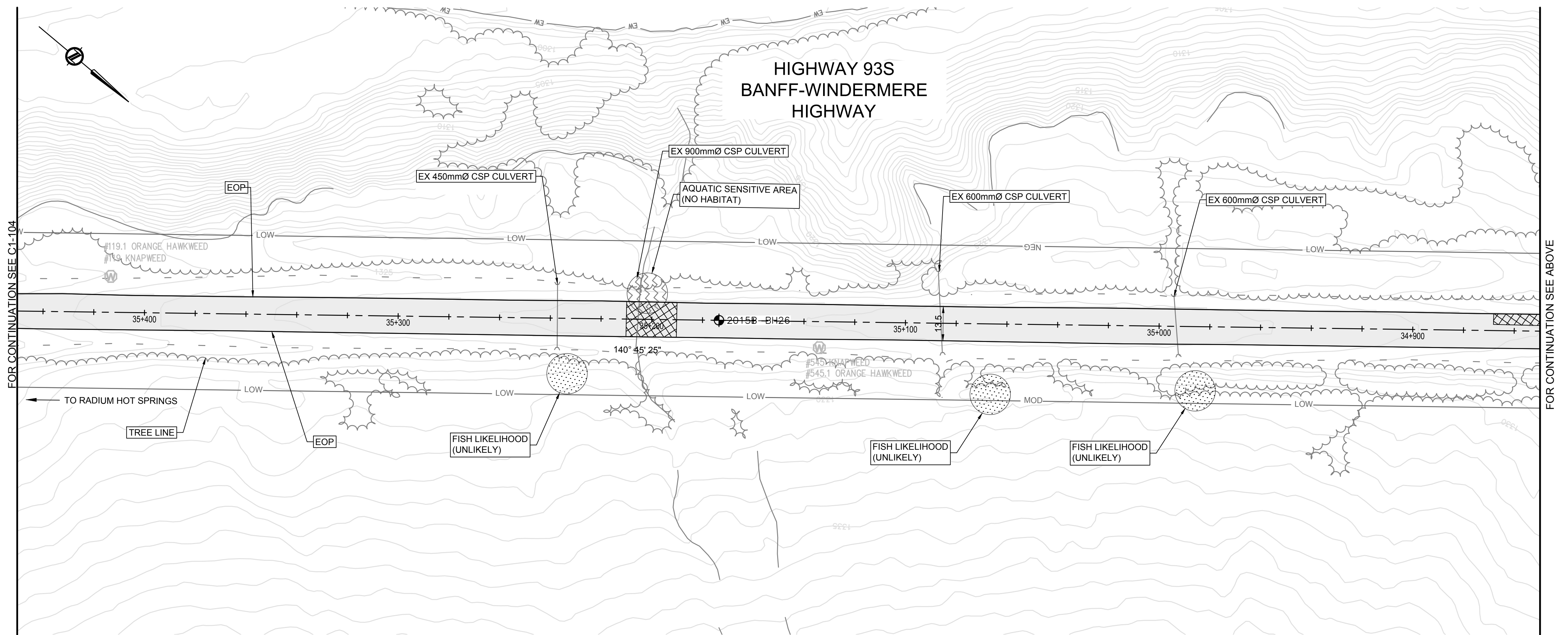
Project No./N° du projet 67308	Asset No./N° du bien	Sheet No./ N° de la feuille 103
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Drawing Set No./N° de série du dessin
60570877-C2



CORRIDOR DESIGN SPEED

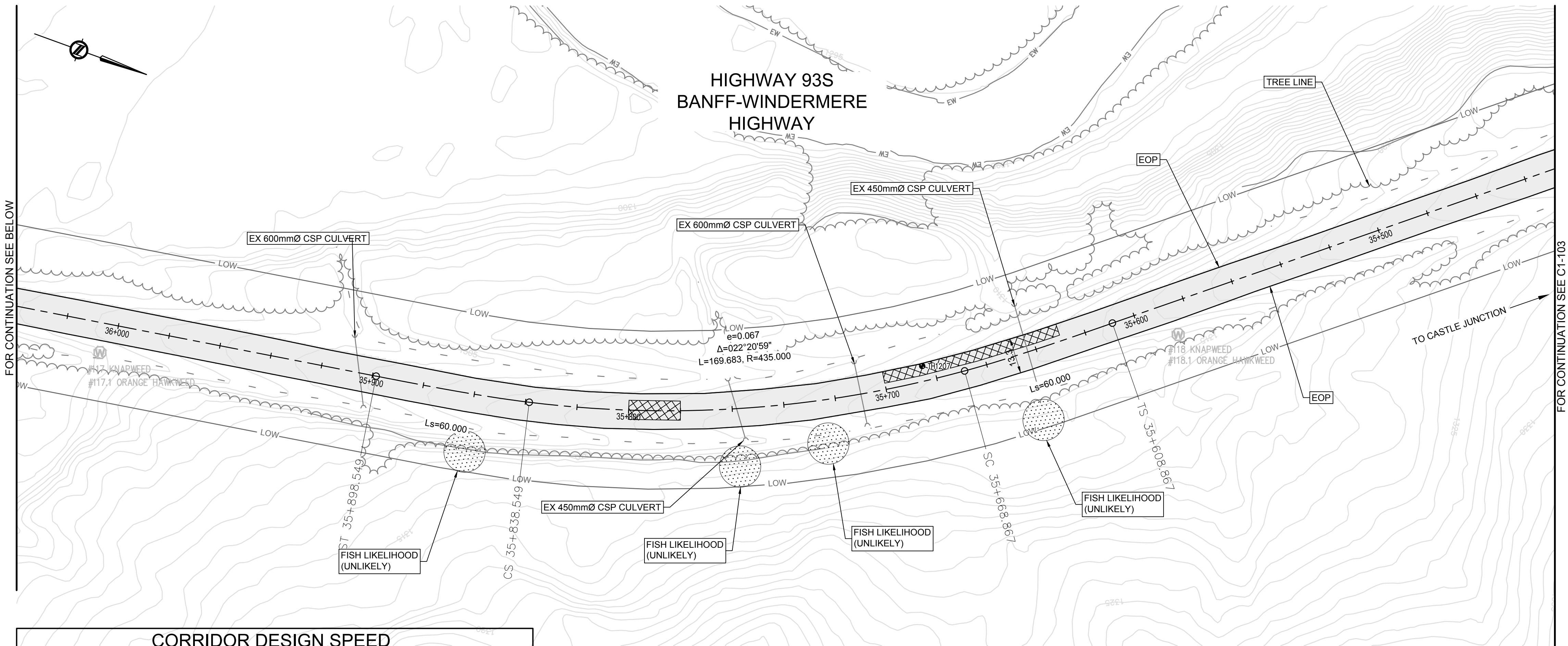
HIGHWAY 93S | 100 km/h | STA 34+250 TO STA 35+450



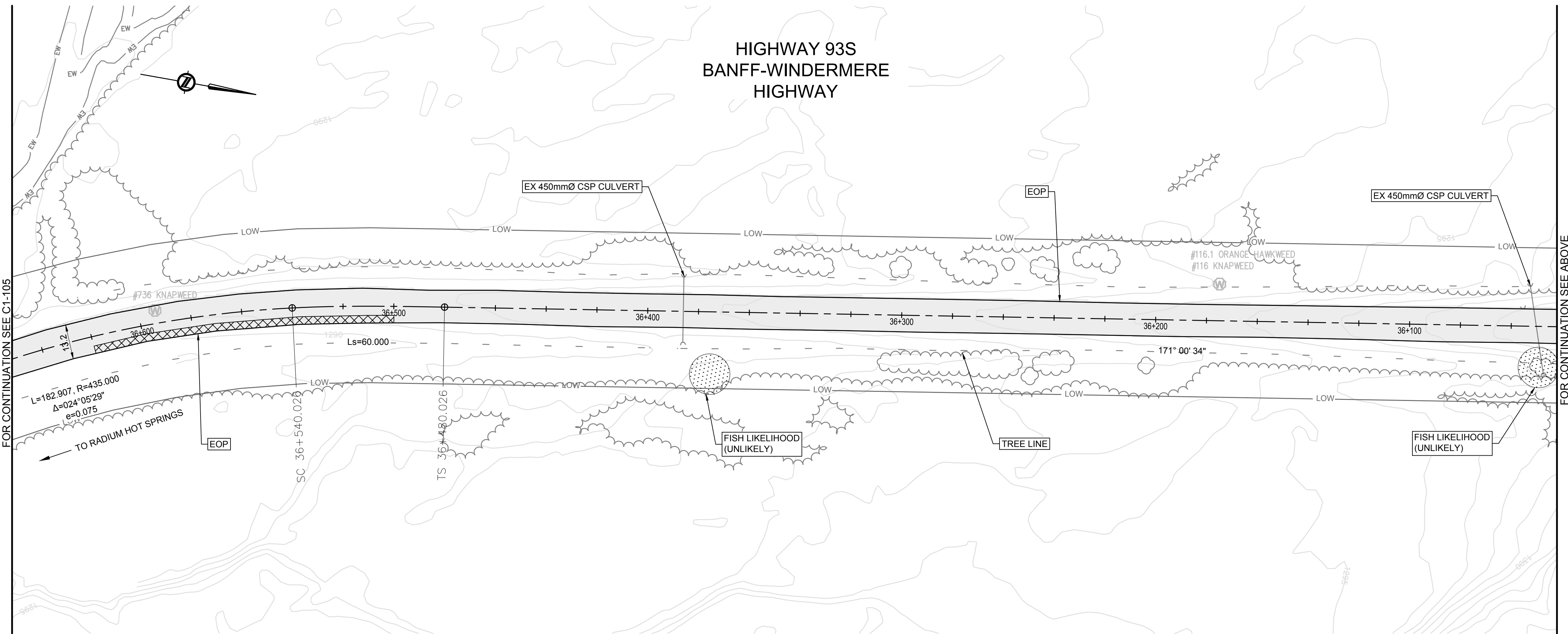
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CORRIDOR DESIGN SPEED		
HIGHWAY 93S	100 km/h	STA 35+450 TO STA 36+650



Parks Canada

Asset Management
Western and
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Region

Parcs Canada

Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK

Drawing title/Titre du dessin

PLAN
STA 35+450 TO STA 36+650

Surveyed by/Arpenté par

JM

Drawn by/Dessiné par

AU

Date

2019-04-18

Designed by/Concept par

RL

Reviewed by/Revisé par

BAS

Scale/Echelle

0 25 m

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Date

Date

Project No./N° du projet

67308

Asset No./N° du bien

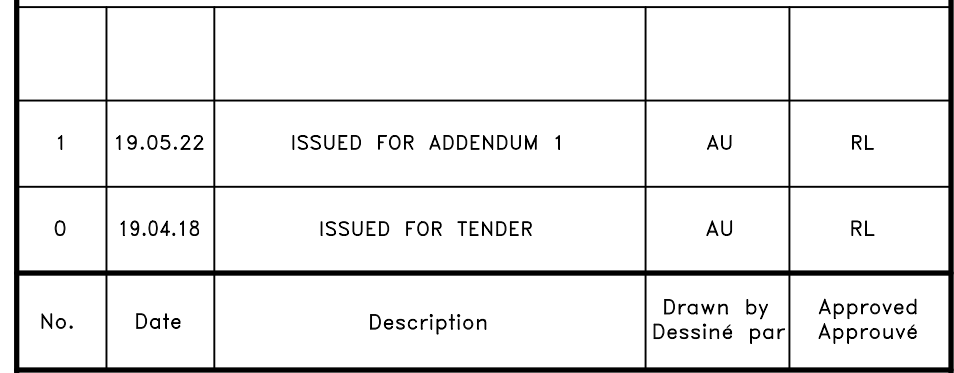
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Sheet No./N° de la feuille

104

NOTES:

1. MILLING TO BE 50mm MILL AND FILL UNLESS OTHERWISE NOTED. LOCATIONS TO BE CONFIRMED ON SITE BY DEPARTMENTAL REPRESENTATIVE.
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4. COORDINATES SHOWN ARE IN UTM ZONE 11, NAD 83(CRS).
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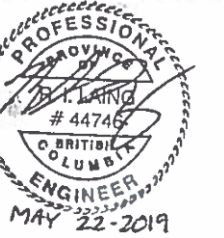


Revision / Revision

	Detail number	A Numéro de détail
	Sheet number	B Numéro de la feuille

Linear dimensions in millimetres	Dimensions linéaires en millimètres
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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AECOM

Parks Canada
Asset Management
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Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet


HIGHWAY 93 SOUTH
BANFF—WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK

Drawing title/Titre du dessin

PLAN

STA 36+650 TO STA 37+850

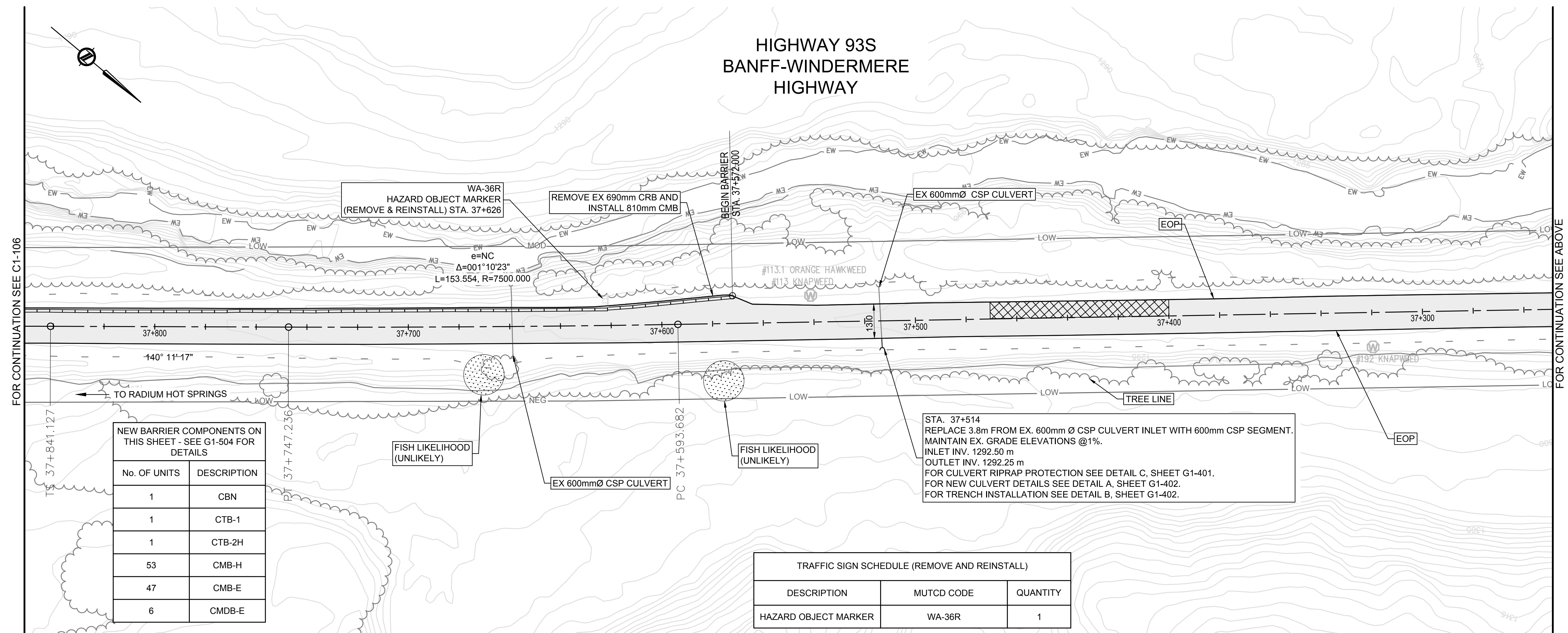
Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
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Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Échelle 0  25 m
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Client Acceptance/Acceptation du client	Approved by/Approuvé par
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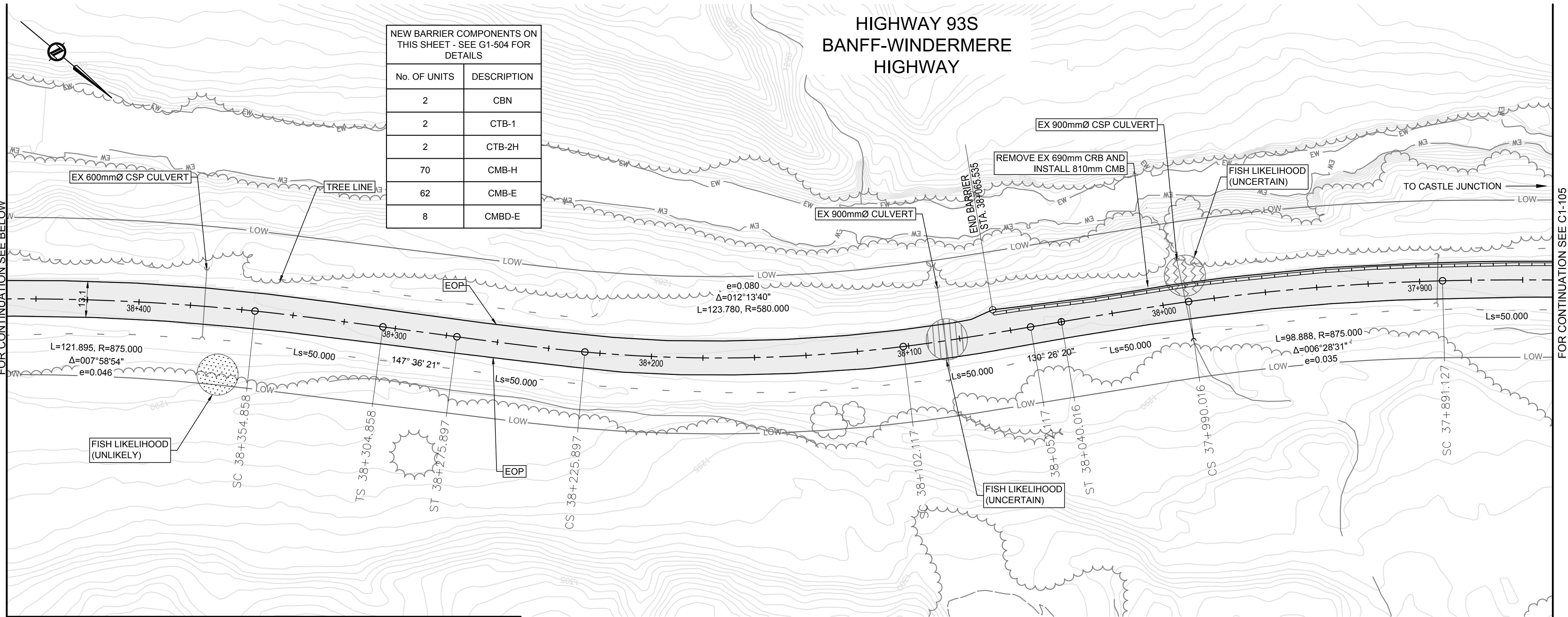
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Drawing Set No./N° de série du dessin		105
60570877-C2		



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CORRIDOR DESIGN SPEED		
HIGHWAY 93S	100 km/h	STA 37+850 TO STA 39+050

Revision / Revision				
A	Detail number	A Numéro de détail		
	Sheet number	B Numéro de la feuille		
Linear dimensions in millimetres		Dimensions linéaires en millimètres		
Consultant's Name Nom de l'expert-conseil		Eng. Stamp Sceau de l'ingénieur		
AECOM		PROFESSIONAL ENGINEER INGÉNIEUR MAY 22, 2019		

Parks Canada **Parcs Canada**

Asset Management **Gestion des biens**
Western and Northern Region **Région de l'Ouest et du Nord**

Canada

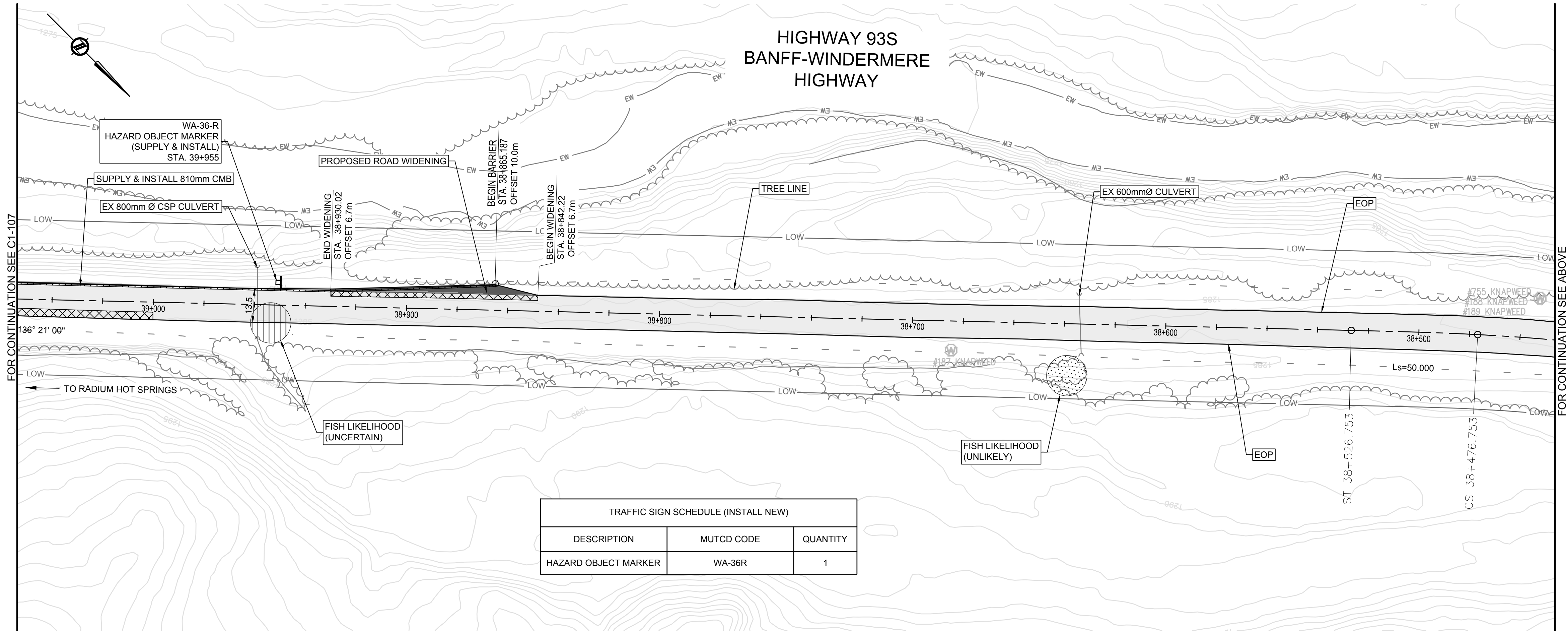
Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

**PLAN
STA 37+850 TO STA 39+050**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concep par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 25 m
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./N° du projet 67308	Asset No./N° du bien	Sheet No./ N° de la feuille 106
Drawing Set No./N° de série du dessin 60570877-C2		



TRAFFIC SIGN SCHEDULE (INSTALL NEW)		
DESCRIPTION	MUTCD CODE	QUANTITY
HAZARD OBJECT MARKER	WA-36R	1

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NOTES:

- MILLING TO BE 50mm MILL AND FILL UNLESS OTHERWISE NOTED. LOCATIONS TO BE CONFIRMED ON SITE BY DEPARTMENTAL REPRESENTATIVE.
- SHALLOW MILL AND FILL LOCATIONS TO BE CONFIRMED ON SITE BY DEPARTMENTAL REPRESENTATIVE.
- ALL SIGNS TO BE MUTCD CANADA SIGN NUMBERING EXCEPT AS NOTED.
- COORDINATES SHOWN ARE IN UTM ZONE 11, NAD 83(CRS).
- CONTRACTOR TO CONFIRM EXISTING AND RELOCATED SIGNS MEET CURRENT REFLECTIVITY STANDARDS.
- CONTRACTOR TO REMOVE DEBRIS FROM ALL EXISTING CULVERTS WITHIN THE PROJECT LIMITS..

1	19.05.22	ISSUED FOR ADDENDUM 1	AU	RL
0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision



Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

AECOM



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

**PLAN
STA 39+050 TO STA 40+250**

Surveyed by/Arpenté par
JM

Drawn by/Dessiné par
AU

Date
2019-04-18

Designed by/Concept par
RL

Reviewed by/Revisé par
BAS

Scale/Echelle
0 25 m

Client Acceptance/Acceptation du client

Approved by/Approuvé par

Date

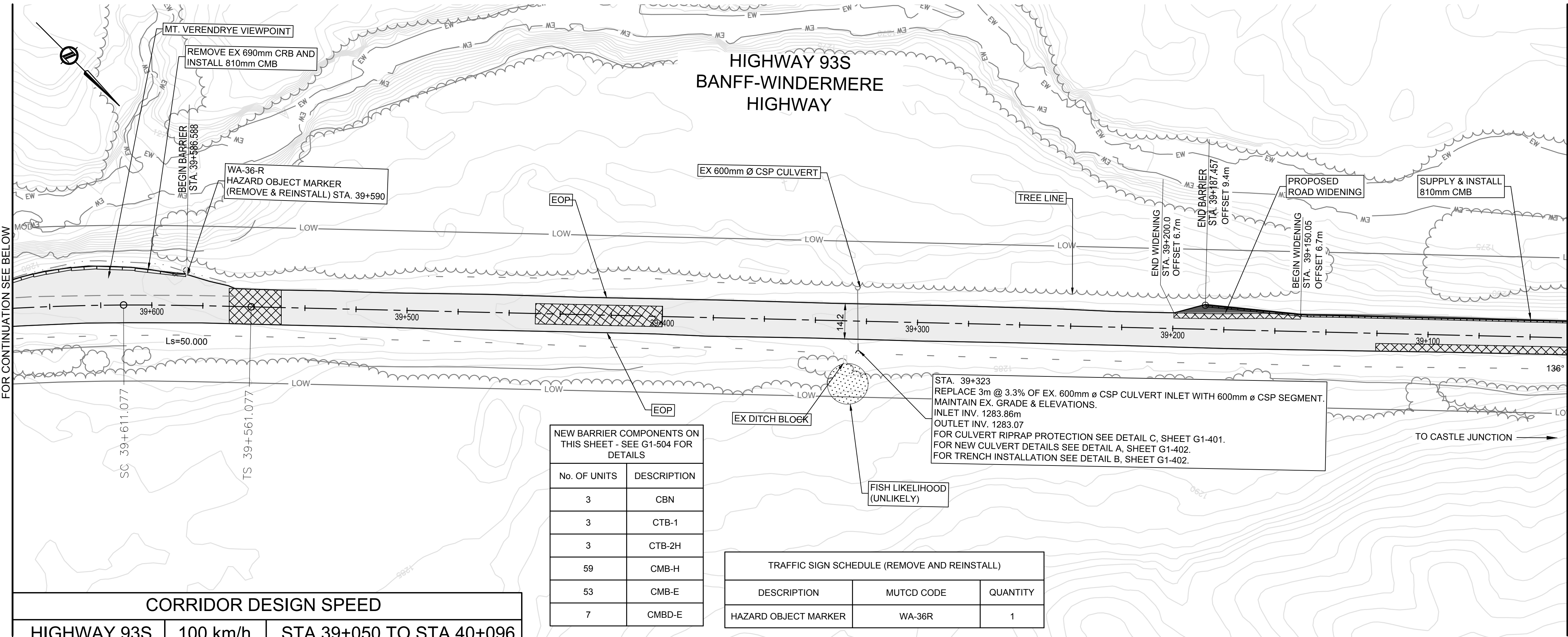
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Project No./N° du projet
67308

Asset No./N° du bien

Sheet No./
N° de la feuille
107

Drawing Set No./N° de série du dessin
60570877-C2

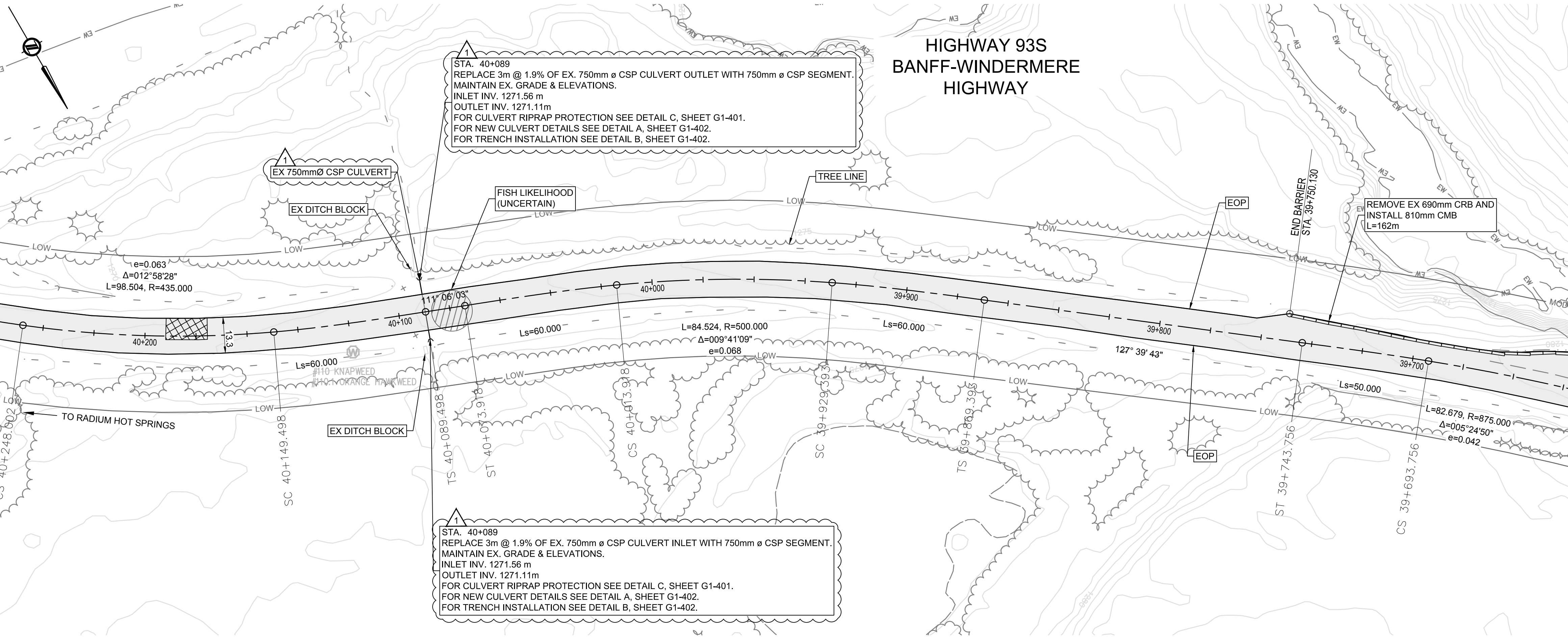


NEW BARRIER COMPONENTS ON THIS SHEET - SEE G1-504 FOR DETAILS	
No. OF UNITS	DESCRIPTION
3	CBN
3	CTB-1
3	CTB-2H
59	CMB-H
53	CMB-E
7	CMBD-E

TRAFFIC SIGN SCHEDULE (REMOVE AND REINSTALL)

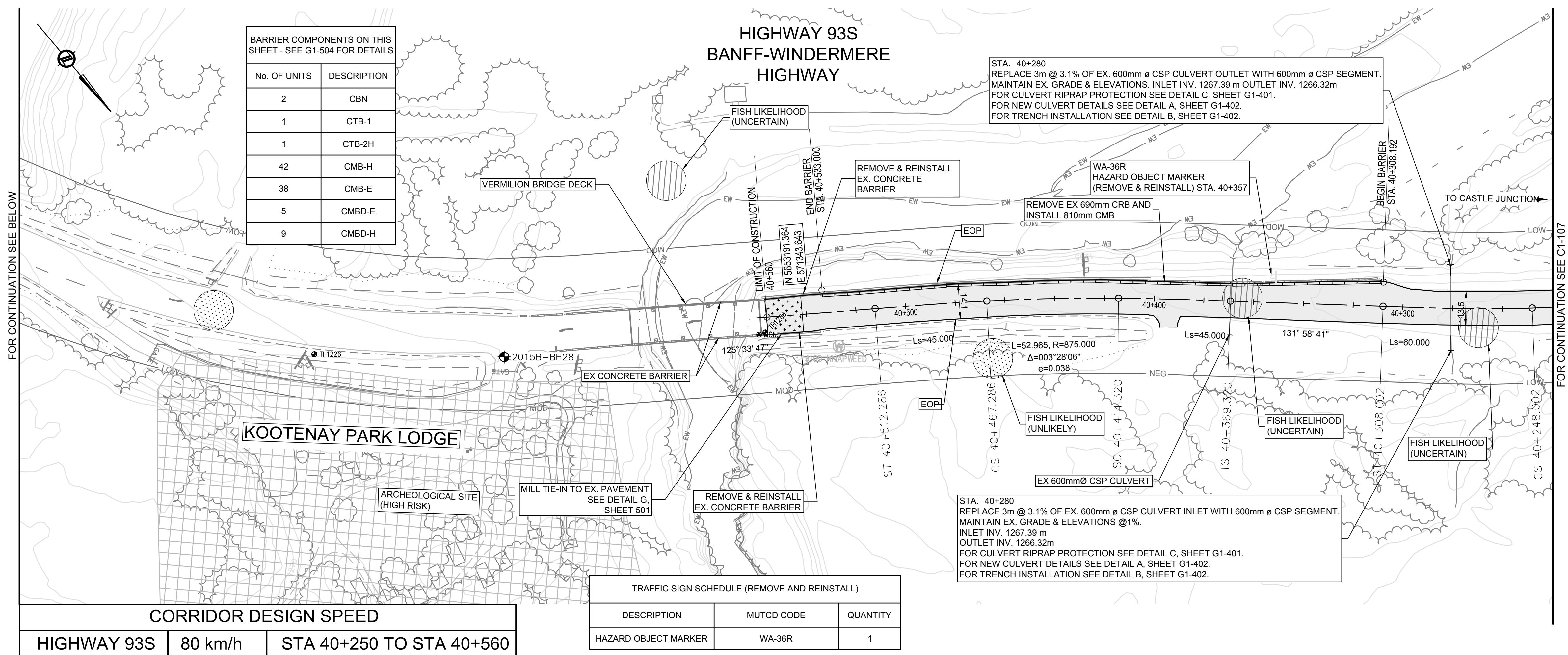
DESCRIPTION	MUTCD CODE	QUANTITY
HAZARD OBJECT MARKER	WA-36R	1

CORRIDOR DESIGN SPEED		
HIGHWAY 93S	100 km/h	STA 39+050 TO STA 40+096
HIGHWAY 93S	80 km/h	STA 40+096 TO STA 40+250



STA. 40+089
REPLACE 3m @ 1.9% OF EX. 750mm ϕ CSP CULVERT OUTLET WITH 750mm ϕ CSP SEGMENT.
MAINTAIN EX. GRADE & ELEVATIONS.
INLET INV. 1271.56 m
OUTLET INV. 1271.11m
FOR CULVERT RIPRAP PROTECTION SEE DETAIL C, SHEET G1-401.
FOR NEW CULVERT DETAILS SEE DETAIL A, SHEET G1-402.
FOR TRENCH INSTALLATION SEE DETAIL B, SHEET G1-402.

STA. 40+089
REPLACE 3m @ 1.9% OF EX. 750mm ϕ CSP CULVERT INLET WITH 750mm ϕ CSP SEGMENT.
MAINTAIN EX. GRADE & ELEVATIONS.
INLET INV. 1271.56 m
OUTLET INV. 1271.11m
FOR CULVERT RIPRAP PROTECTION SEE DETAIL C, SHEET G1-401.
FOR NEW CULVERT DETAILS SEE DETAIL A, SHEET G1-402.
FOR TRENCH INSTALLATION SEE DETAIL B, SHEET G1-402.



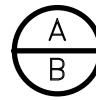
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- CONTRACTOR TO REMOVE DEBRIS FROM ALL EXISTING CULVERTS WITHIN THE PROJECT LIMITS..

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0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

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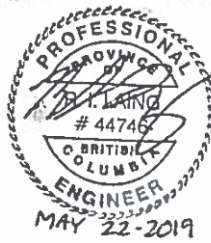
Detail number Sheet number	A Numéro de détail B Numéro de la feuille
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Linear dimensions in millimetres	Dimensions linéaires en millimètres
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Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

AECOM



Parks Canada
Asset Management
Western and
Northern
Region

Parcs Canada
Gestion des biens
Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

**PLAN
STA 40+250 TO STA 40+560**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 25 m

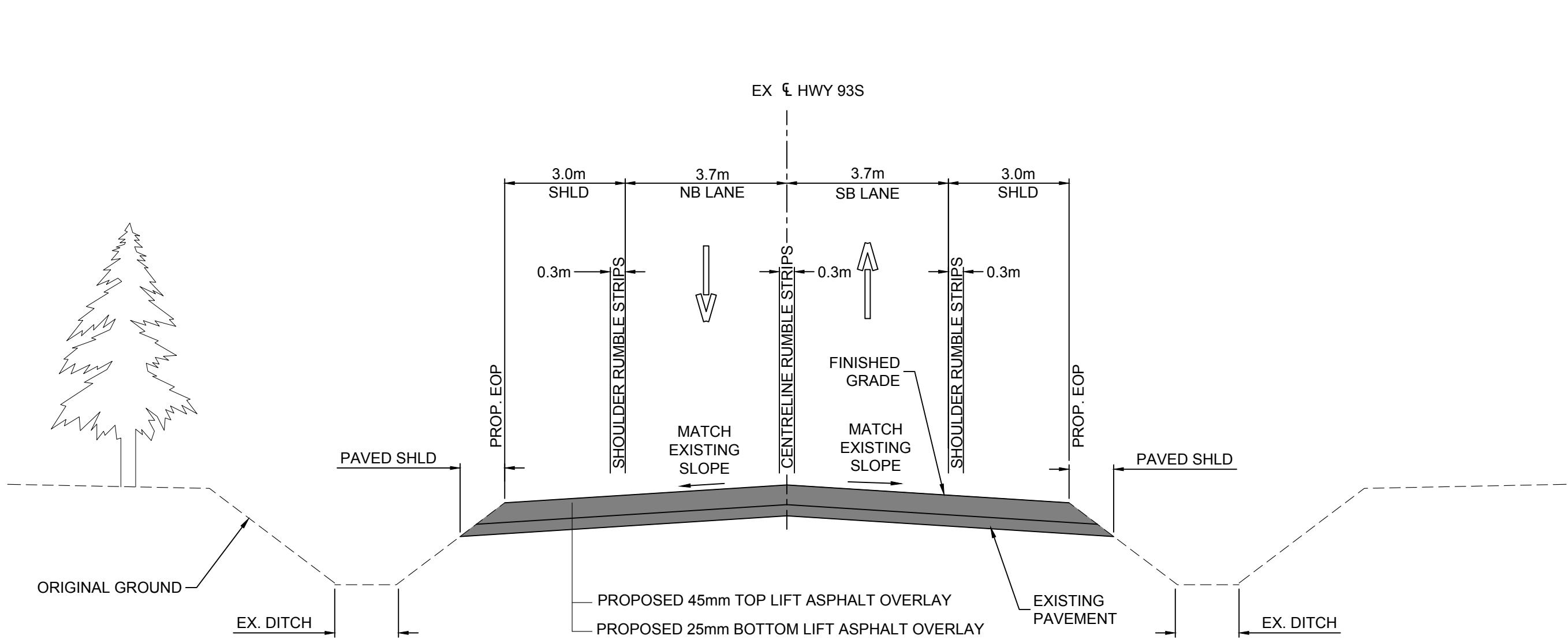
Client Acceptance/Acceptation du client	Approved by/Approuvé par
Date	Date

Project No./N° du projet 67308	Asset No./N° du bien	Sheet No./ N° de la feuille 108
Drawing Set No./N° de série du dessin 60570877-C2		

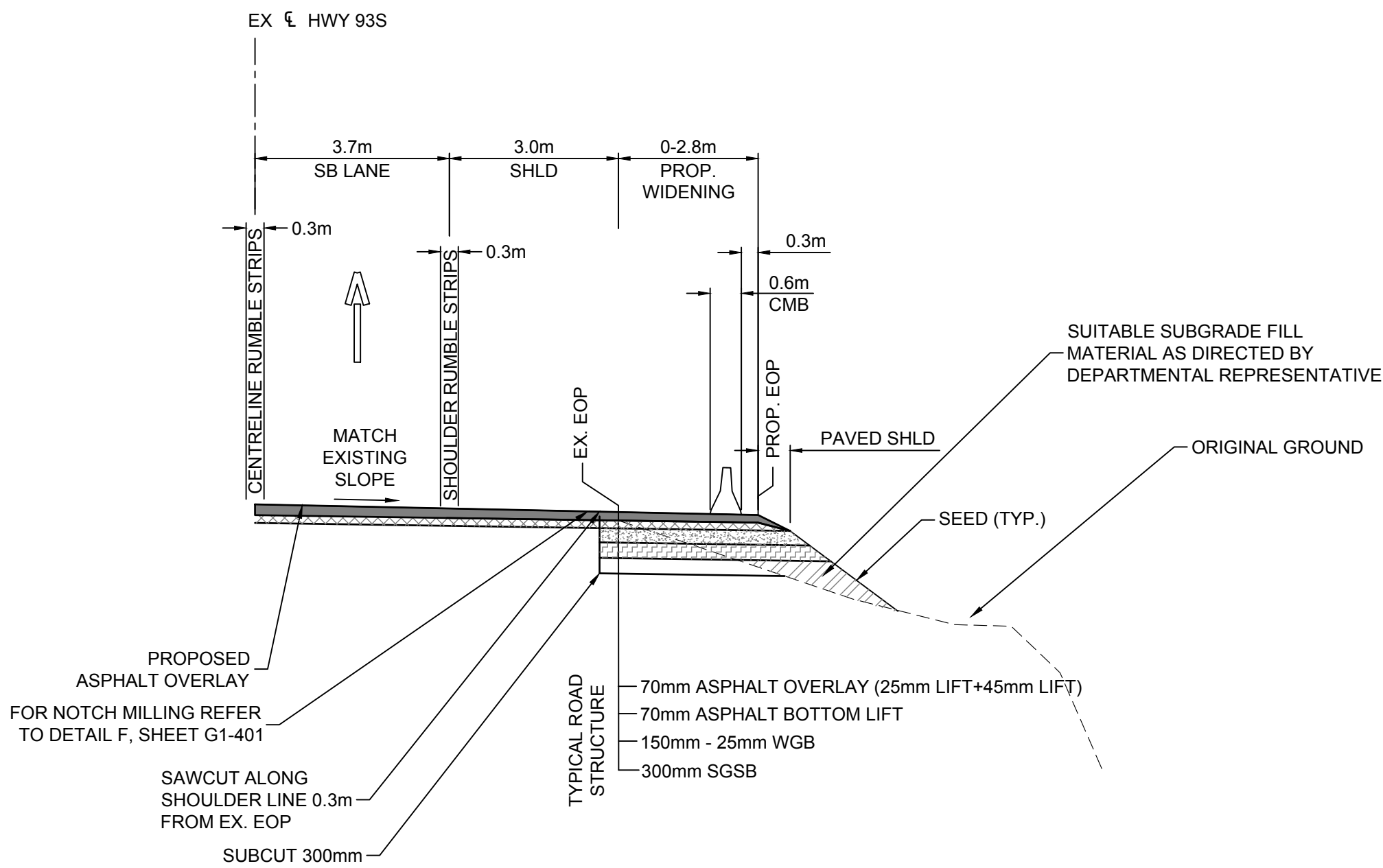
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NOTES:

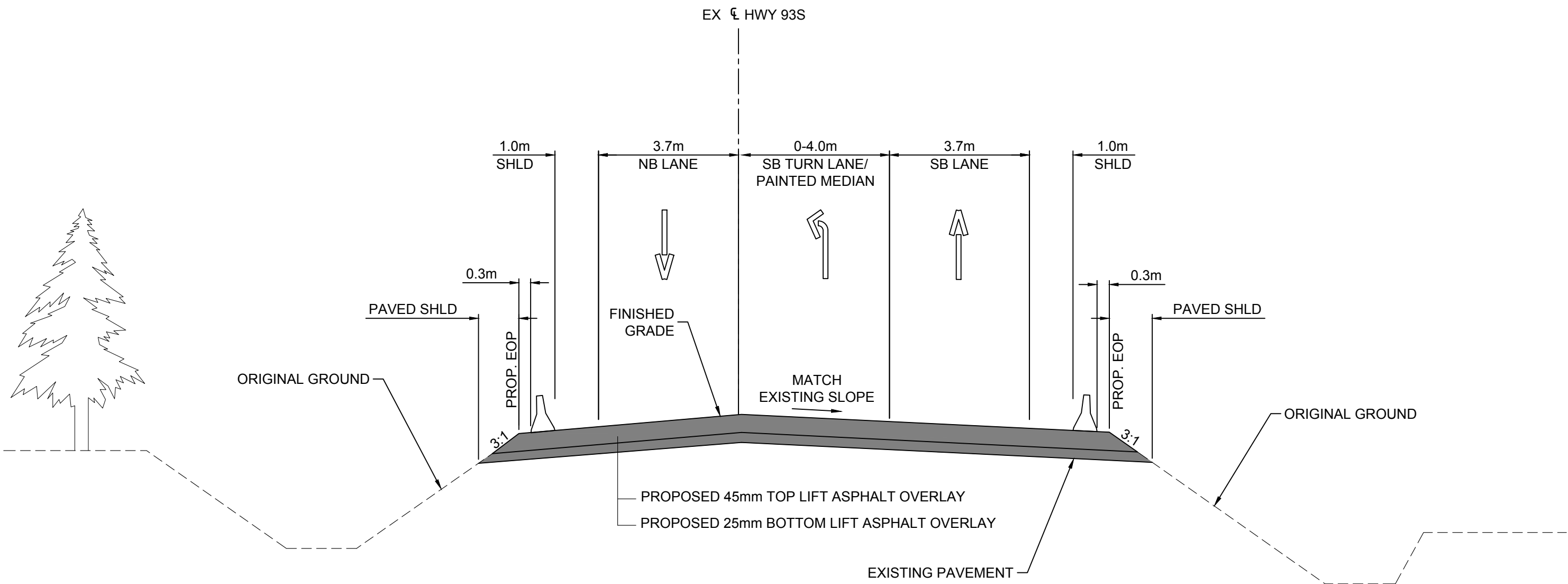
1. SEE DETAIL A SHEET G1-401 FOR SUBGRADE BACKFILL AND EXCAVATION INFORMATION.
2. ALL DIMENSIONS IN METERS UNLESS NOTED OTHERWISE.
3. TYPICAL SECTIONS AND DETAILS NOT TO SCALE.
4. WIDTH VARIES TAPERS.
5. SEE SHEETS C5-101 TO C5-106 FOR MILLING LOCATIONS
6. RUMBLE STRIPS AS PER BC MOTI SUPPLEMENT TO TAC FIG. 650.A TO FIG 650.H
7. SUB-GRADE EXCAVATION MAY CONTAIN SOILS UNSUITABLE FOR USE IN EMBANKMENT CONSTRUCTION.



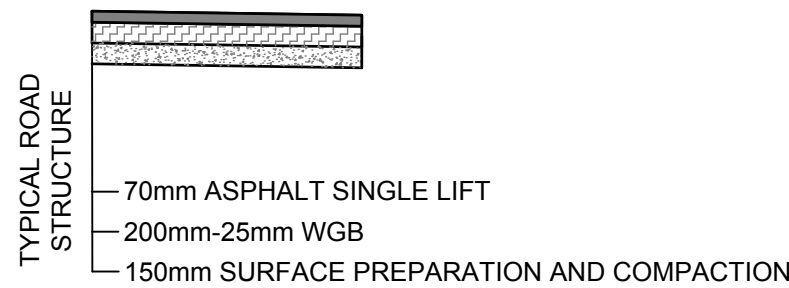
TYPICAL HWY 93S ASPHALT OVERLAY
STA. 32+000 - STA. 40+400



WIDENING FOR HIGHWAY 93S
BARRIER FLARES
STA. 38+865 - STA. 39+185



TYPICAL HIGHWAY 93S
APPROACH AT VERMILION BRIDGE
STA 40+400 - STA 40+560



DAY USE AREA
BASE AND PAVEMENT
PAINT POTS - STA. 19+620
FLOE LAKE - STA 32+440

No.	Date	Description	Drawn by Dessiné par	Approved Approuvé
1	19.05.22	ISSUED FOR ADDENDUM 1	AU	RL
0	19.04.18	ISSUED FOR TENDER	AU	RL

Revision / Revision				
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Detail number Sheet number		A Numéro de détail B Numéro de la feuille	
A		B	

Linear dimensions in millimetres		Dimensions linéaires en millimètres	
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Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Canada

Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
TYPICAL SECTIONS

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
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Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle NTS
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Client Acceptance/Acceptation du client		Approved by/Approuvé par	
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Date		Date	
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Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille 301
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Drawing Set No./Nº de série du dessin 60570877-C2	
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NOTES:
1. ALL DIMENSIONS IN METRES, UNLESS OTHERWISE NOTED.

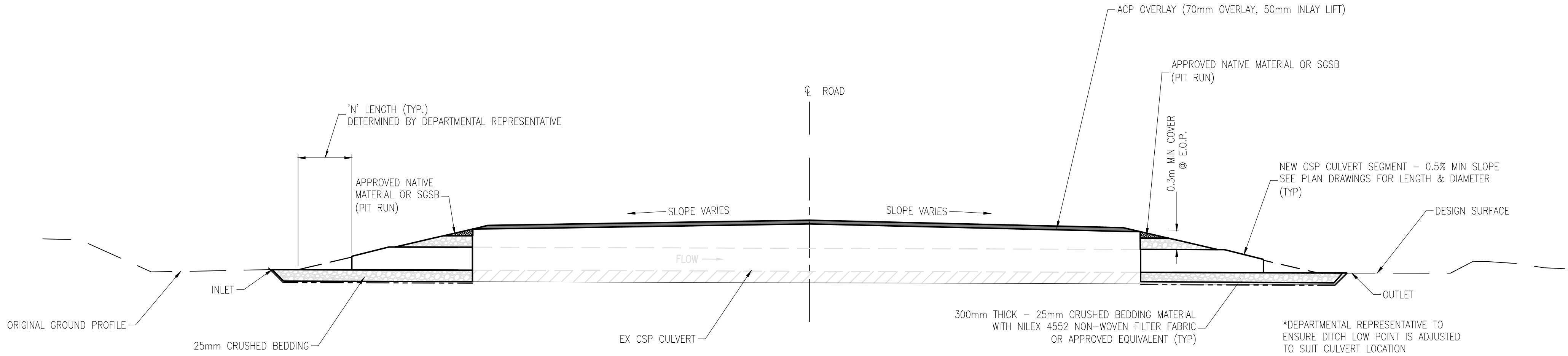
Canada

Drawing Set No./N° de série du dessin	401
60570877 C1	

NOTES FOR CSP HANDLING AND ASSEMBLY:

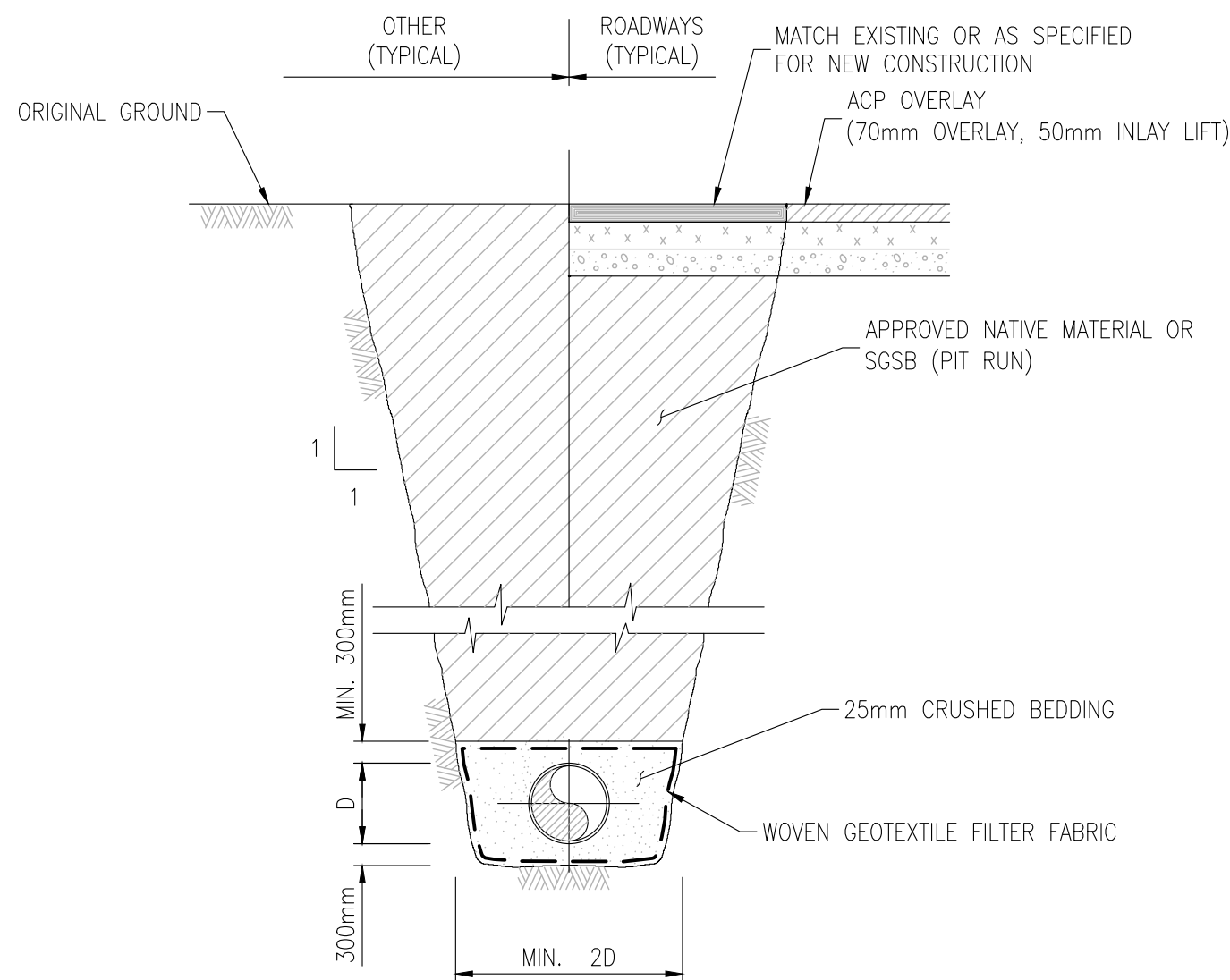
- CSP SECTIONS ARE TO BE LIFTED, NOT DRAGGED, FOR HANDLING. THEY SHALL NOT BE HANDLED IN A MANNER THAT MAY CAUSE DAMAGE TO THE GALVANIZED COATING OR RESULT IN OTHER PHYSICAL DAMAGE. ANY SUCH DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- REFERENCE STANDARD INSTALLATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER.
- SHAPE CHECKS ARE TO BE CARRIED OUT DURING AND AFTER INSTALLATION TO ENSURE THAT THE INSTALLED SHAPE IS AS INTENDED.

C.S.P. DIAMETER – D mm	SLOPE RATIO OF CULVERT END X:Y	"N" – m				INVERT LENGTH OF SLOPE END SEC. METRE
		WITH 3:1 SUBGRADE SLOPE RATIO	WITH 4:1 SUBGRADE SLOPE RATIO	WITH 5:1 SUBGRADE SLOPE RATIO	WITH 6:1 SUBGRADE SLOPE RATIO	
400	4 : 1	0.3	0.5	0.8	1.2	6.0
500	4 : 1	0.3	0.6	0.9	1.5	6.0
600	4 : 1	0.3	0.6	1.0	1.6	6.0
700	4 : 1	0.3	0.8	1.2	2.0	6.0
800	4 : 1	0.4	0.9	1.4	2.3	6.0
900	4 : 1	0.5	1.0	1.6	2.5	6.0
1000	4 : 1	0.5	1.2	1.8	2.8	6.0
1200	3 : 1	0.9	1.7	2.4	3.7	6.0
	4 : 1	0.6	1.4	2.2	3.5	
1400	3 : 1	1.0	1.9	2.8	4.3	
	4 : 1	0.6	1.6	2.5	3.9	6.0



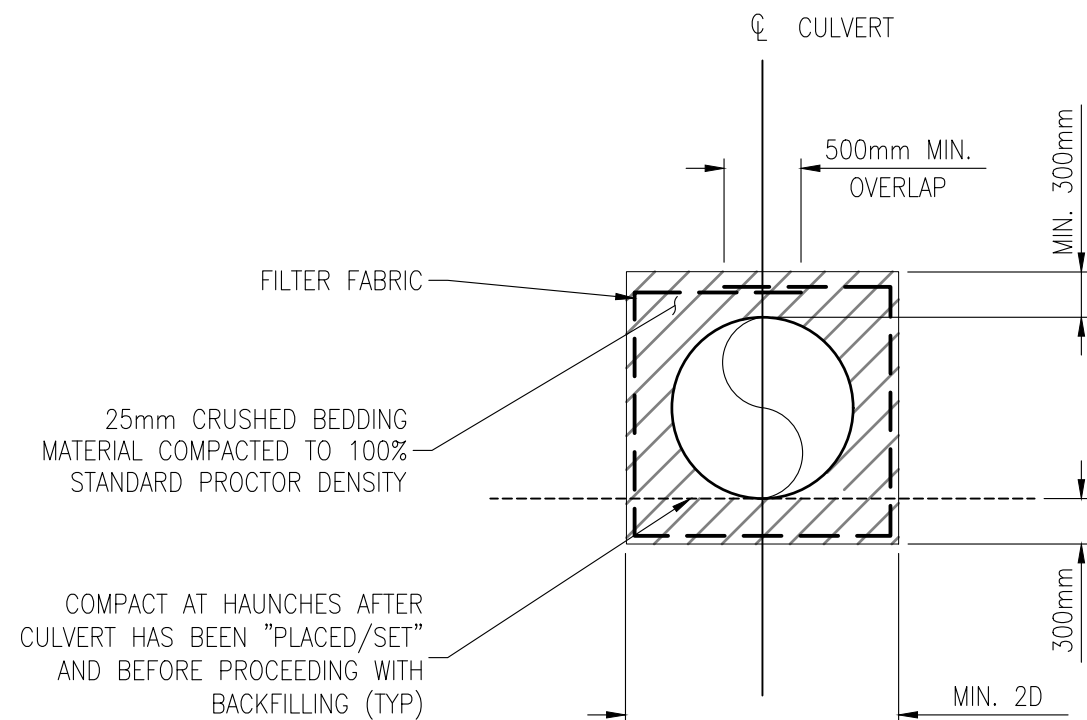
DETAIL A: TYPICAL SECTION NEW CSP CULVERT SEGMENTS

N.T.S.



DETAIL B: TYPICAL ROAD TRENCH FOR CSP CULVERT INSTALLATION

N.T.S.



DETAIL C: TYPICAL END SECTION - CSP BACKFILL ZONE

N.T.S.

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- NOTES:
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Revision / Revision



Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

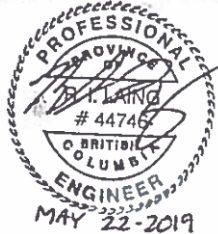
Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

Eng. Stamp
Sceau de l'ingénieur

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Western and Northern Region

Parcs Canada
Gestion des biens
Région de l'Ouest et du Nord

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

**DETAILS
DRAINAGE**

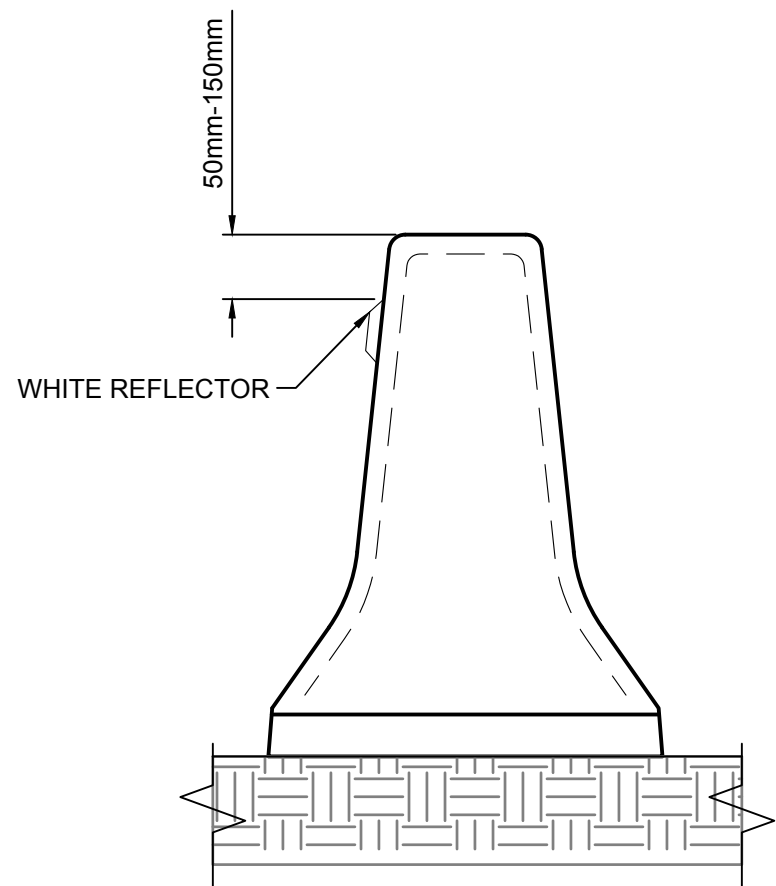
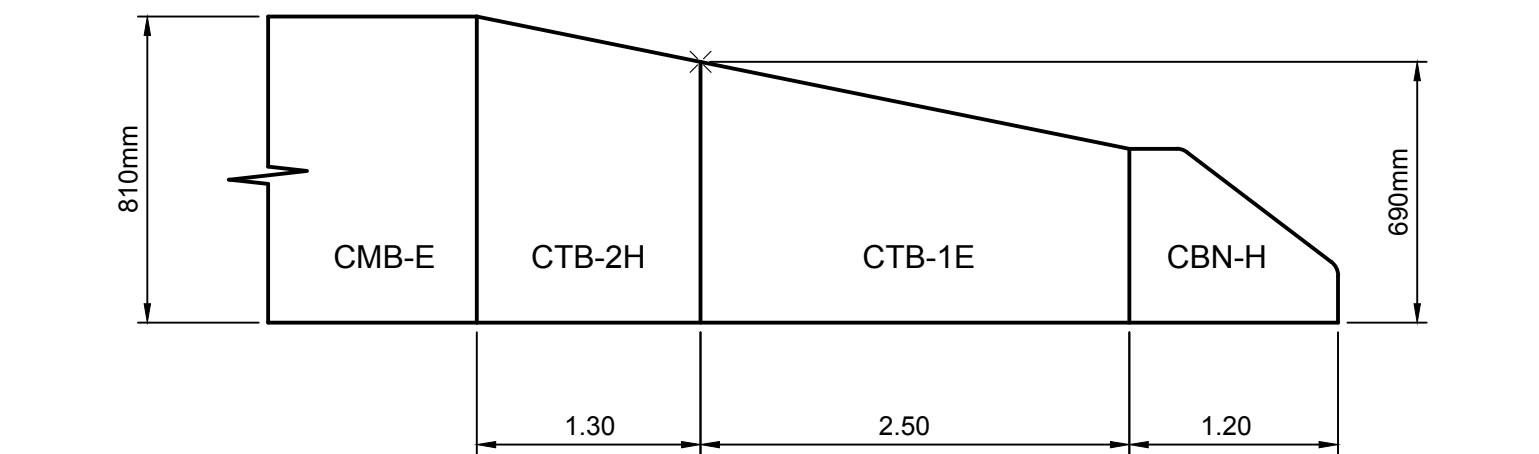
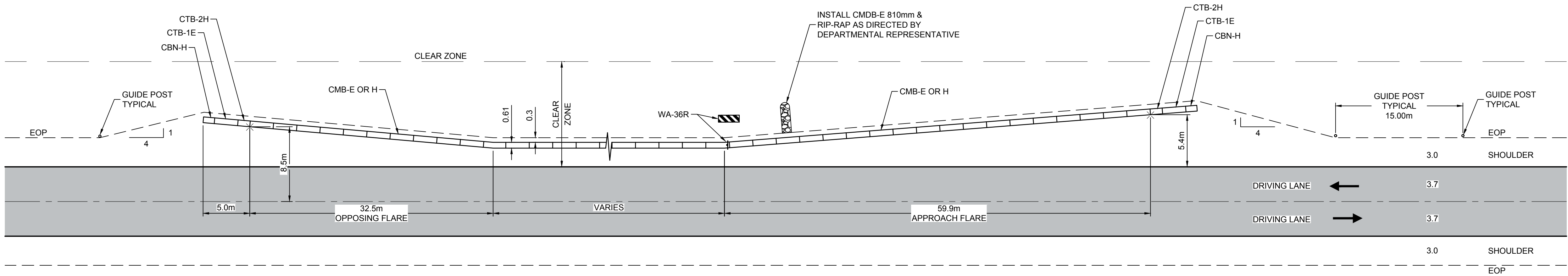
Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle NTS

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Date	Date

Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille
Drawing Set No./Nº de série du dessin 60570877-G1		402

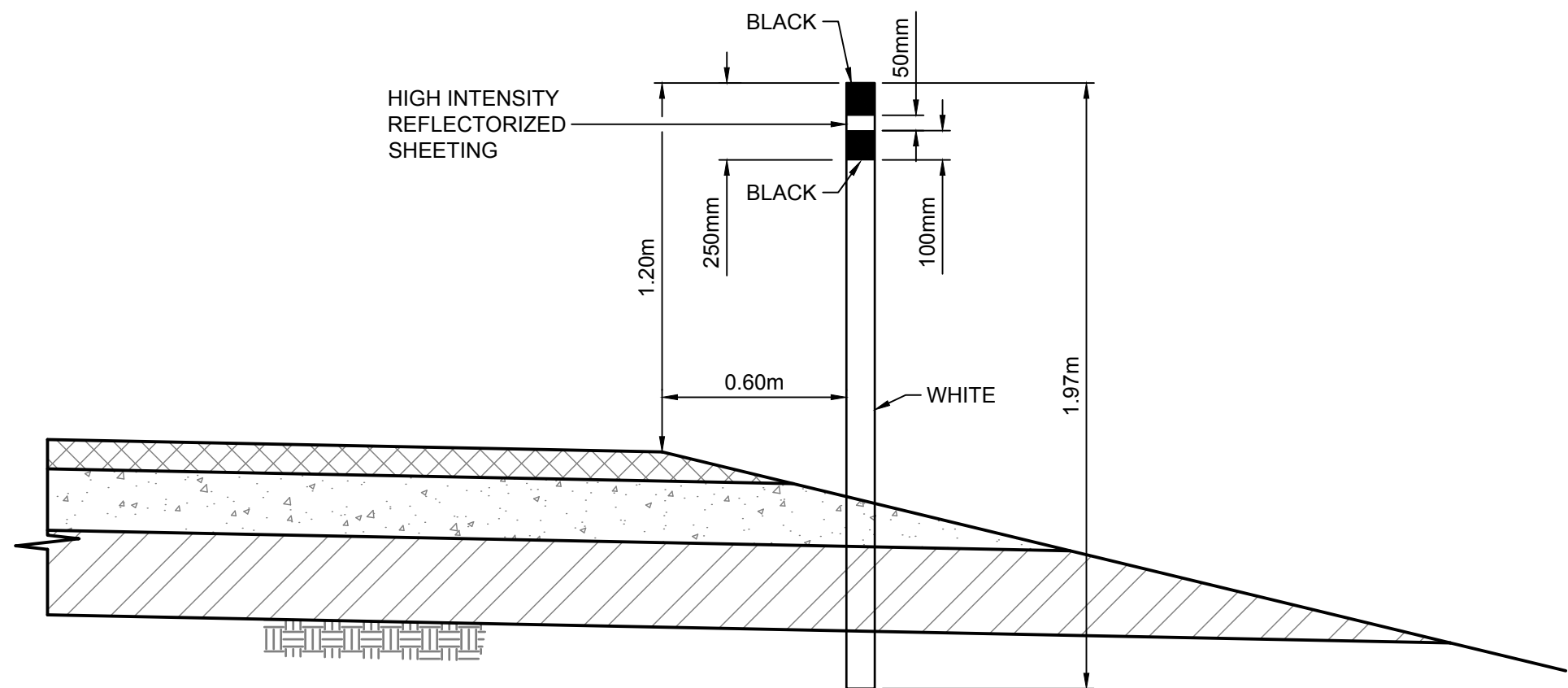
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NOTES:
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DETAIL B: TYPICAL BARRIER REFLECTOR INSTALLATION

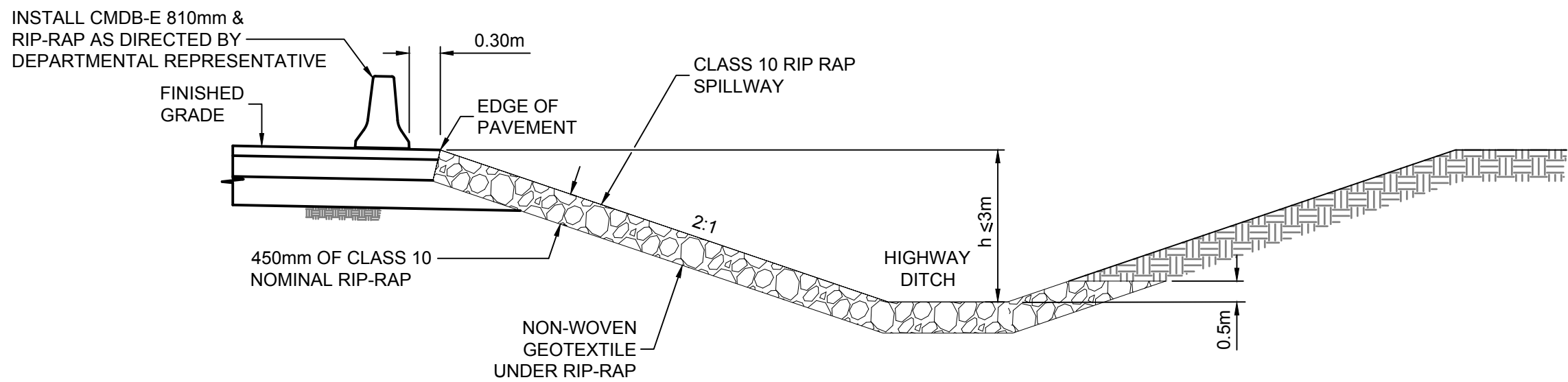
N.T.S.



DETAIL C: TYPICAL GUIDE POST INSTALLATION

N.T.S.

NOTE:
INSTALL GUIDE POST AS PER AT HIGHWAY PAVEMENT MARKING
GUIDE SECTION C7
SEE SHEETS C1-101 TO C1-109 FOR PROPOSED LOCATIONS



DETAIL D: BARRIER DRAIN - WITH CSP OR RIP-RAP (IF REQUIRED)

N.T.S.

1	19.05.22	ISSUED FOR ADDENDUM 1	AU	RL
0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

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A
B

Detail number
Sheet number

A Numéro de détail
B Numéro de la feuille

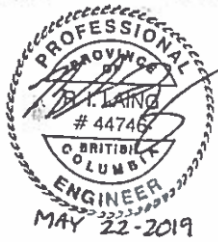
Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
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Région de l'Ouest et
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Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin

**DETAILS
BARRIER**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille
Drawing Set No./Nº de série du dessin 60570877-G1		403



PLAN
Scale 1:150

LEGEND

SUBGRADE PREPARATION, BASE & PAVEMENT

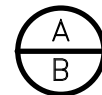
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Sheet number

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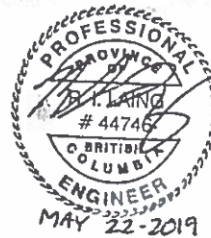
Linear dimensions
in millimetres

Dimensions linéaires
en millimètres

Consultant's Name
Nom de l'expert-conseil

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Région de l'Ouest et
du Nord

Canada

Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**HWY 93S KM 19+620
PAINT POTS DUA
SUBGRADE PREPARATION, BASE AND PAVEMENT**

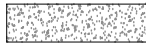
Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille 501
Drawing Set No./Nº de série du dessin 60570877-C2		



PLAN
Scale 1:250

LEGEND

SUBGRADE PREPARATION, BASE & PAVEMENT



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Revision / Revision

<div><div>A</div><div>B</div></div>	Detail number	A Numéro de détail
	Sheet number	B Numéro de la feuille
	Linear dimensions in millimetres	Dimensions linéaires en millimètres

Consultant's Name Nom de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
<div>AECOM</div>	<div></div>

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Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**HWY 93S KM 32+440
FLOE LAKE DUA
SUBGRADE PREPARATION, BASE AND PAVEMENT**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille 502
Drawing Set No./Nº de série du dessin 60570877-G1		

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LEGEND:
ORIGINAL GROUND - - - - -
FINISHED GROUND _____
SUBCUT _____

FOR REFERENCE ONLY

1	19.05.22	ISSUED FOR ADDENDUM 1	AU	RL
0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision


A
B

Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions Dimensions linéaires
in millimetres en millimètres

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

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 **Parks Canada** **Parcs Canada**
Asset Management **Gestion des biens**
Western and Northern **Région de l'Ouest et**
Region **du Nord**

Canada

Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**CROSS SECTIONS
BARRIER FLARE WIDENING
STA 38+852 TO STA 38+880**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 2.5m
Client Acceptance/Acceptation du client		Approved by/Approuvé par
Date		Date
Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille
Drawing Set No./Nº de série du dessin 60570877-C2		XS01

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ORIGINAL GROUND - - - - -
FINISHED GROUND _____
SUBCUT _____

FOR REFERENCE ONLY

1	19.05.22	ISSUED FOR ADDENDUM 1	AU	RL
0	19.04.18	ISSUED FOR TENDER	AU	RL
No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision


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Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions Dimensions linéaires
in millimetres en millimètres

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


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Western and Northern **Région de l'Ouest et**
Region **du Nord**

Canada

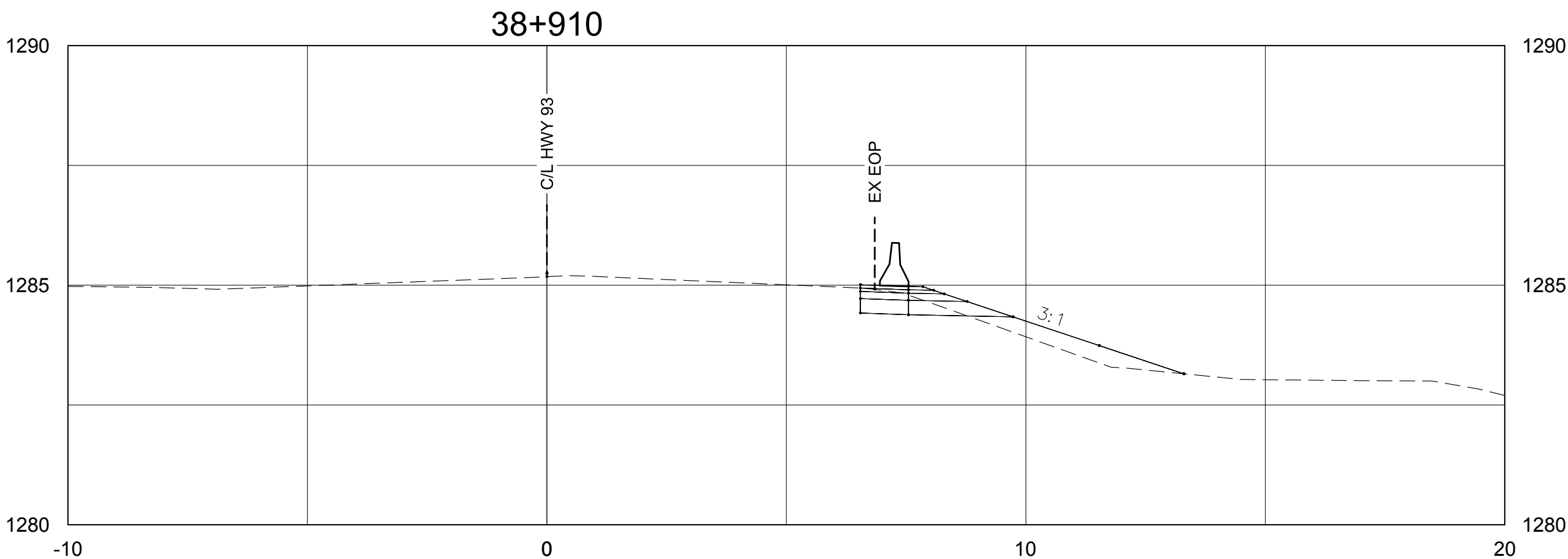
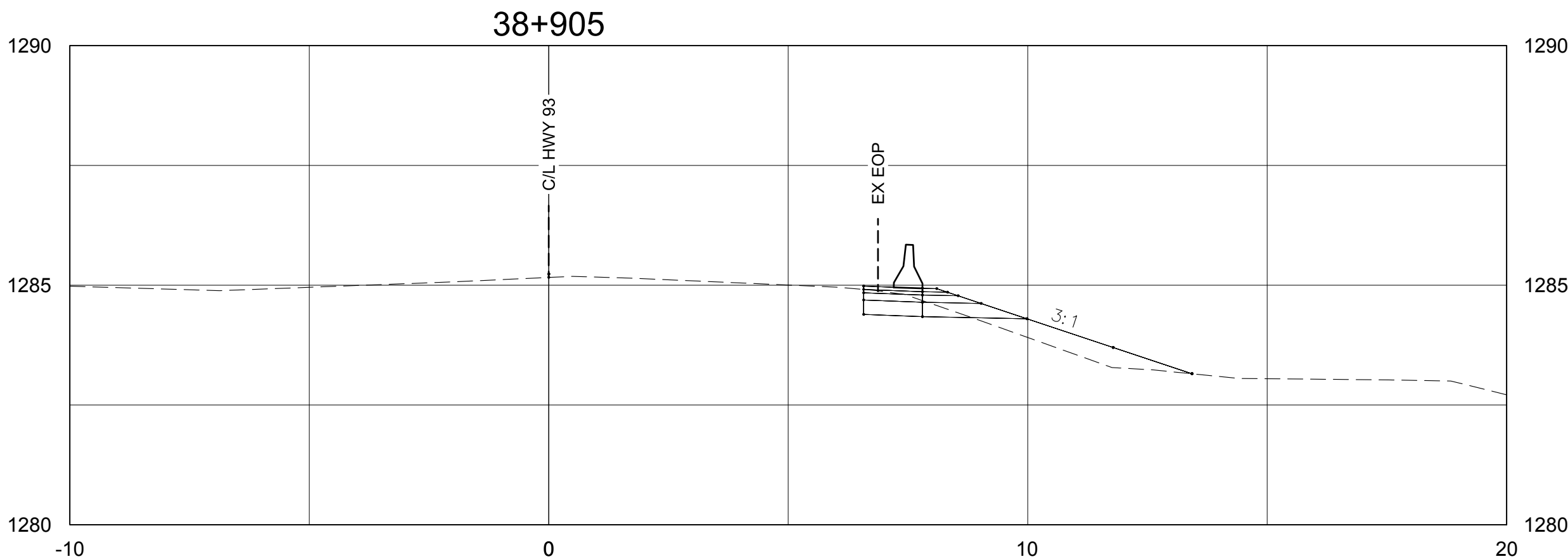
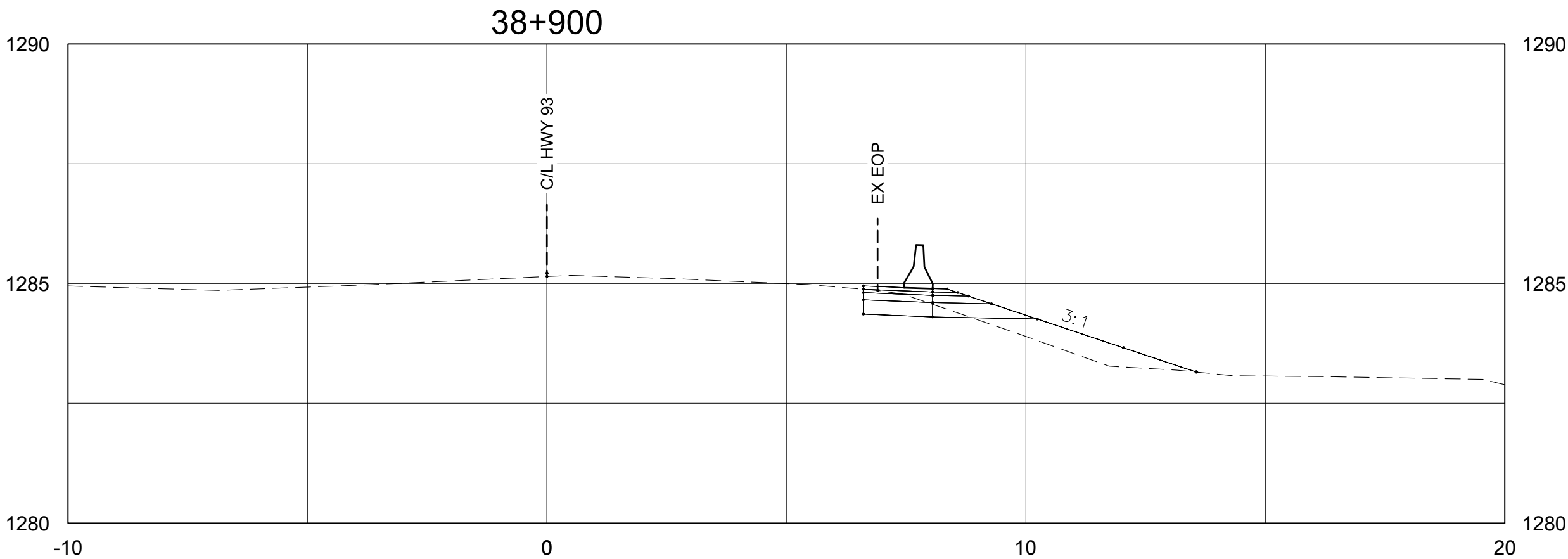
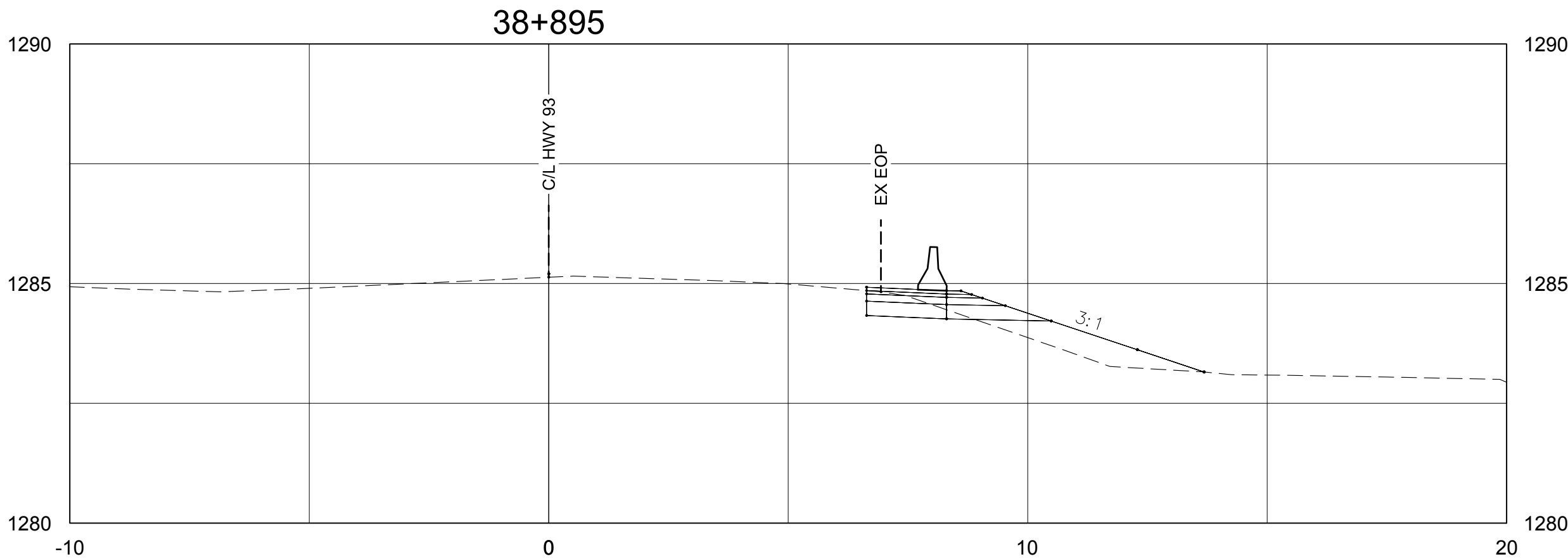
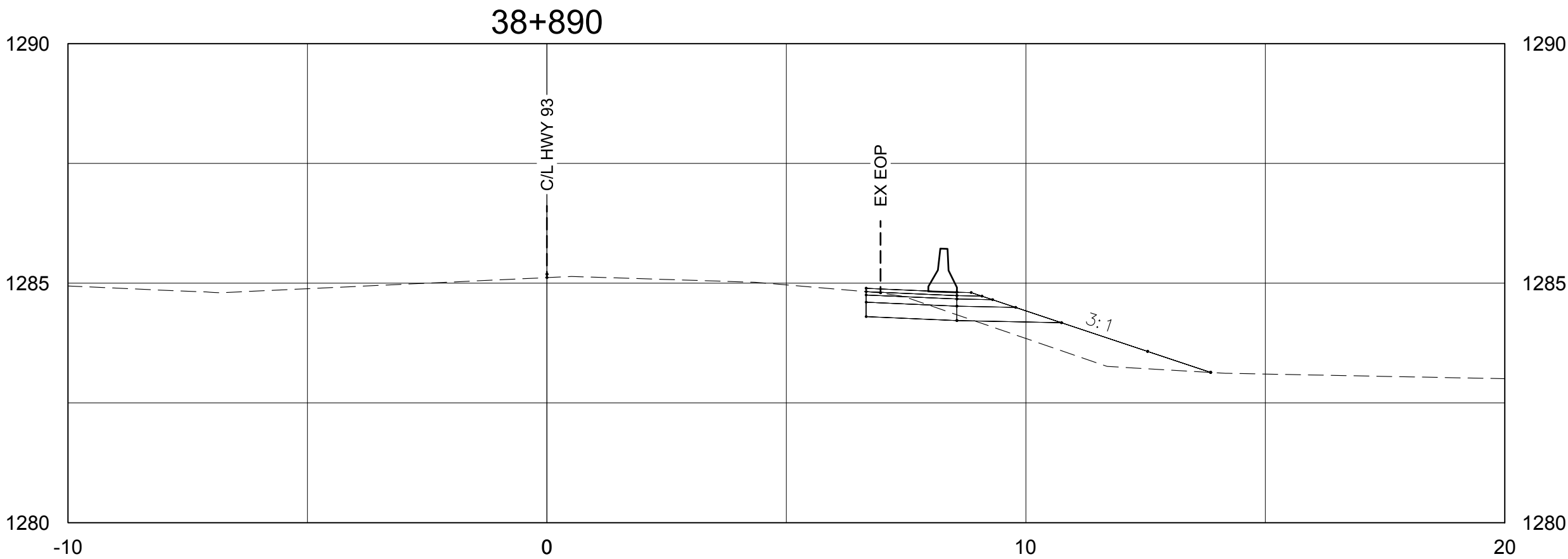
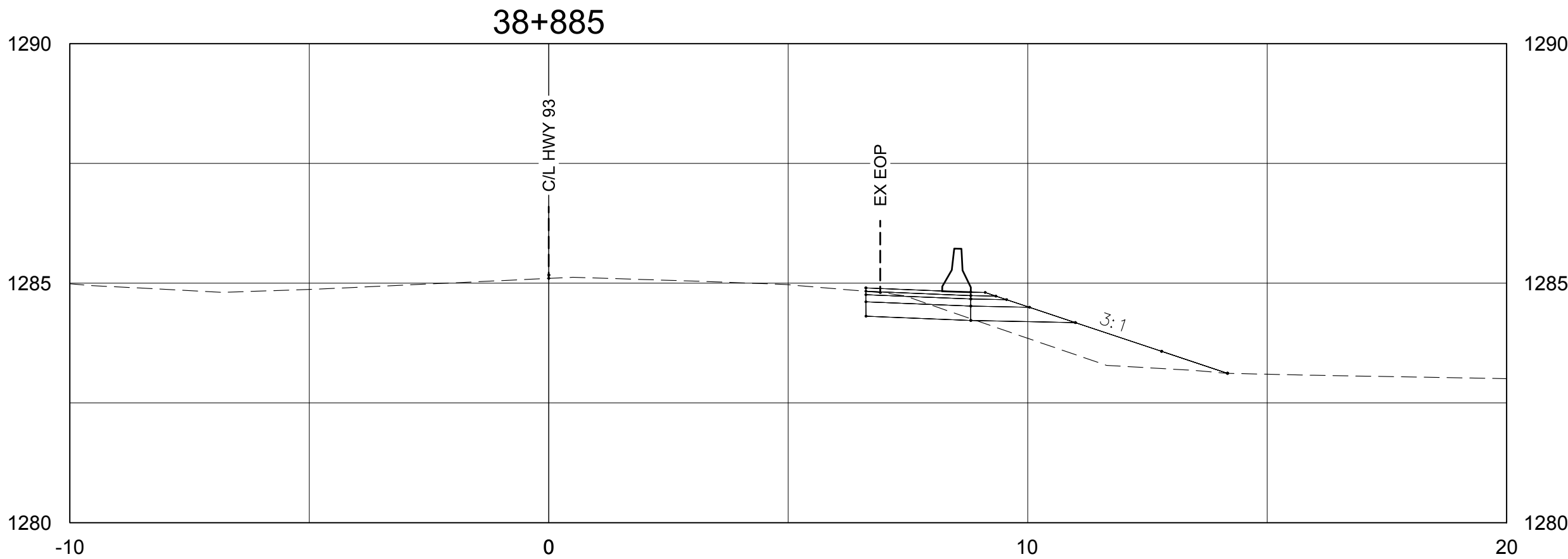
Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF–WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**CROSS SECTIONS
BARRIER FLARE WIDENING
STA 38+885 TO STA 38+910**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0  2.5m

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Date	Date

Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille XS02
Drawing Set No./Nº de série du dessin 60570877-C2		



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No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision

A
B

Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions Dimensions linéaires
in millimetres en millimètres

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

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Region

Canada

Project title/Titre du projet

**HIGHWAY 93 SOUTH
BANFF–WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

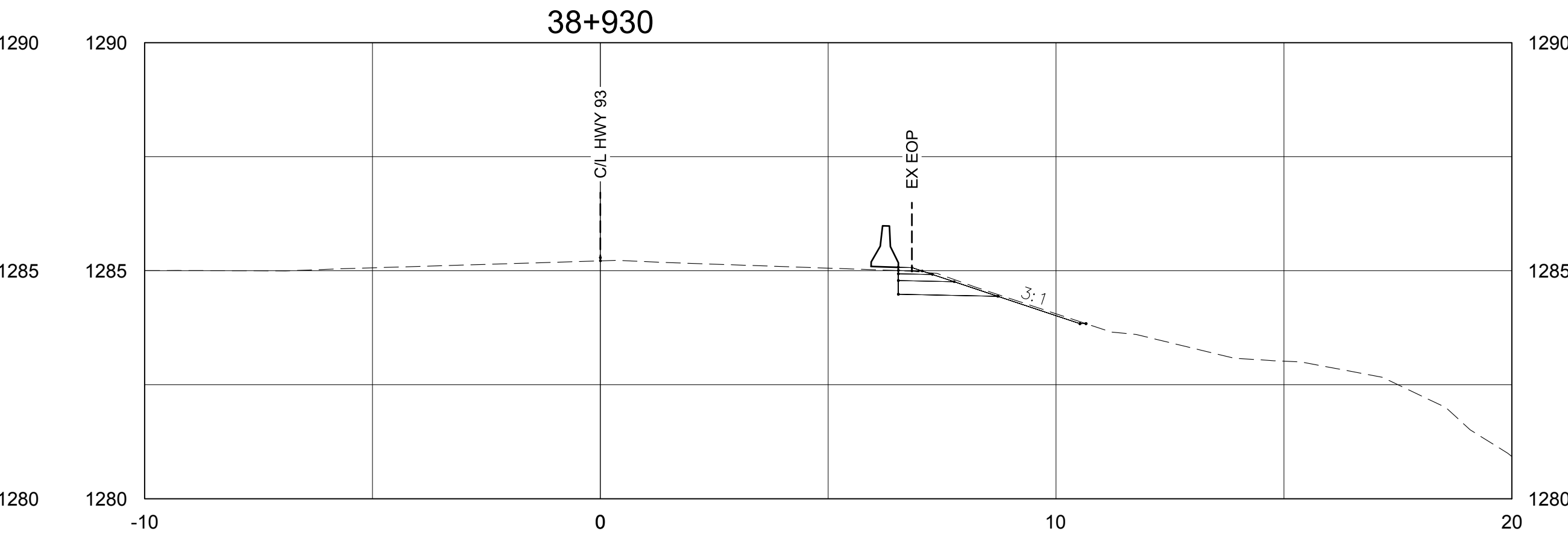
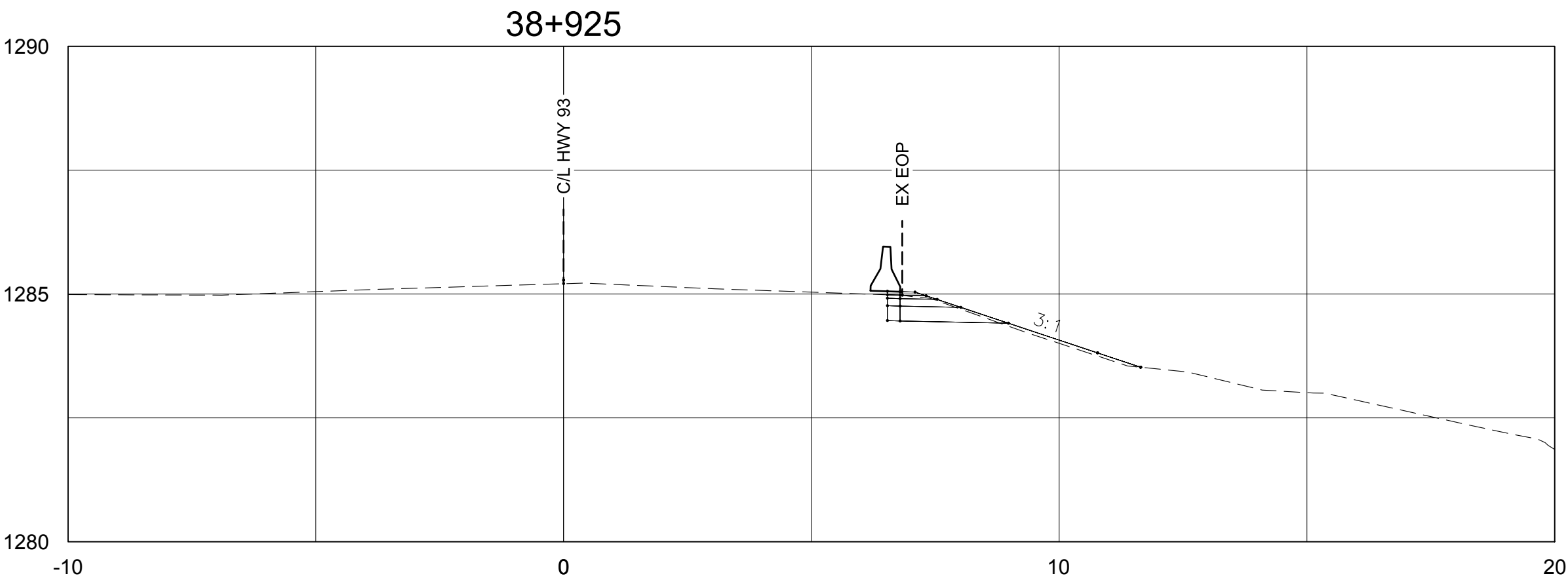
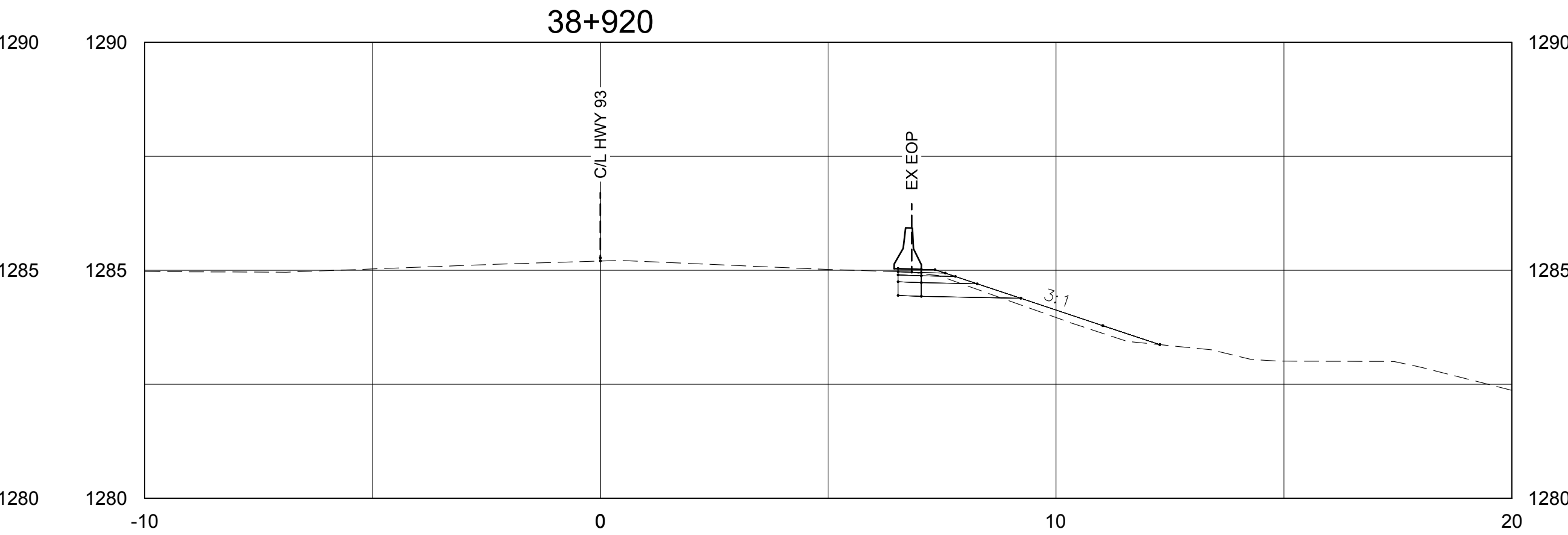
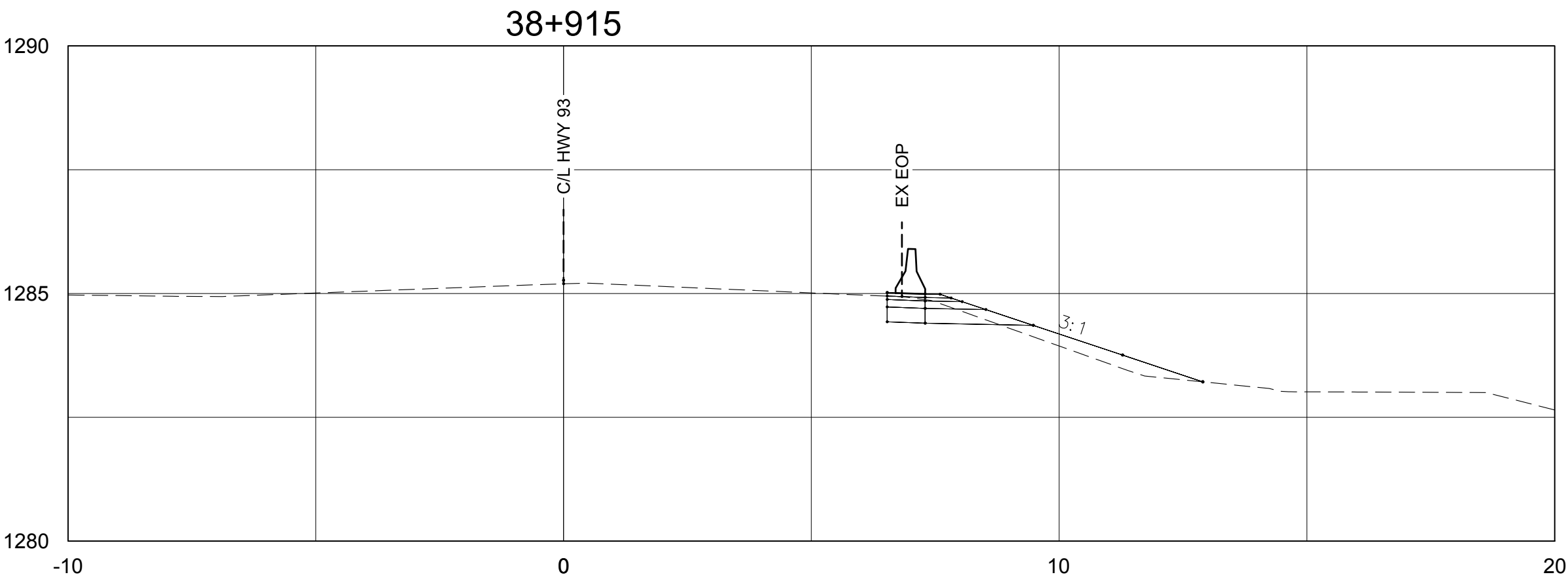
Drawing title/Titre du dessin

**CROSS SECTIONS
STA 39+915 TO STA 39+930**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019–04–18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 2.5m

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Date	Date

Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille XS03
Drawing Set No./Nº de série du dessin 60570877–C1		



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FINISHED GROUND _____
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No.	Date	Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision


A
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Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions Dimensions linéaires
in millimetres en millimètres

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


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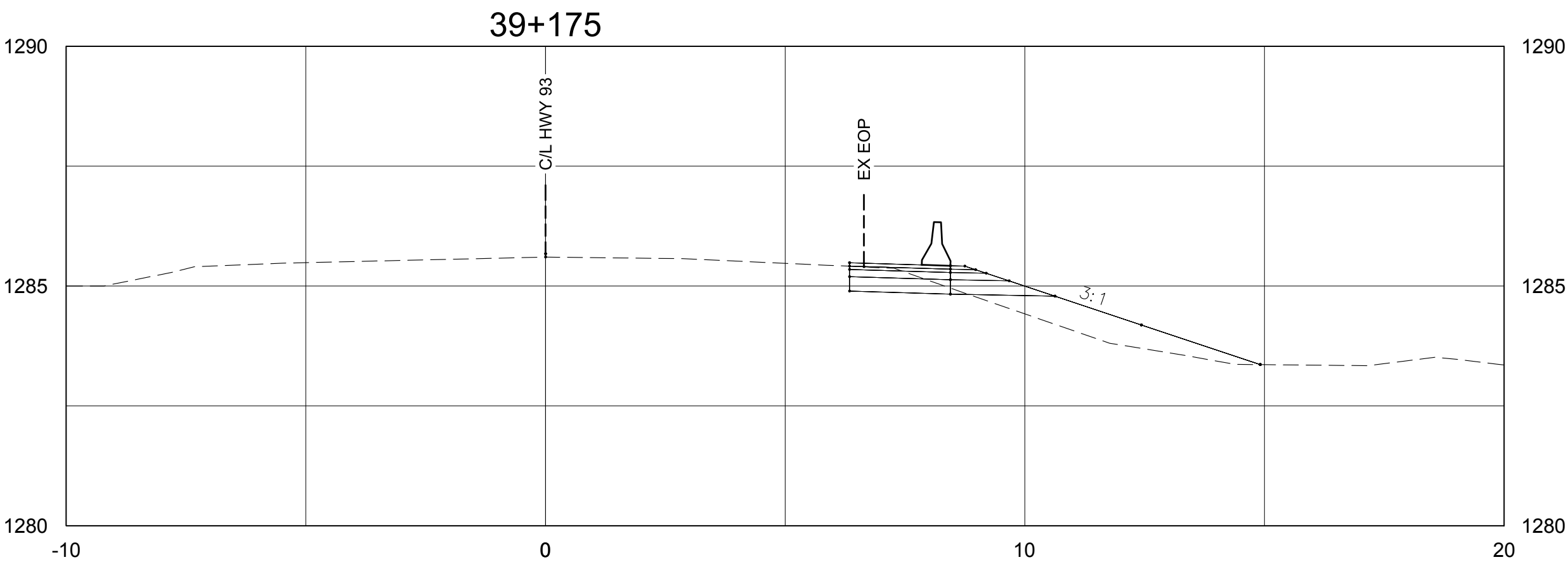
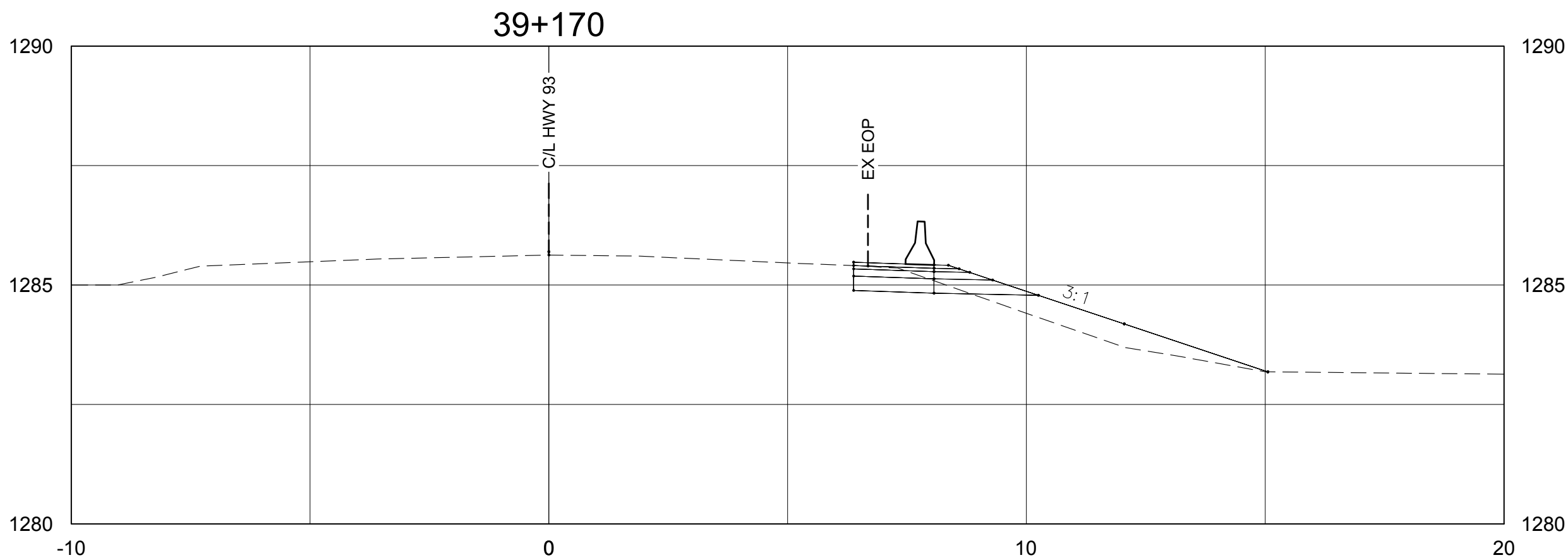
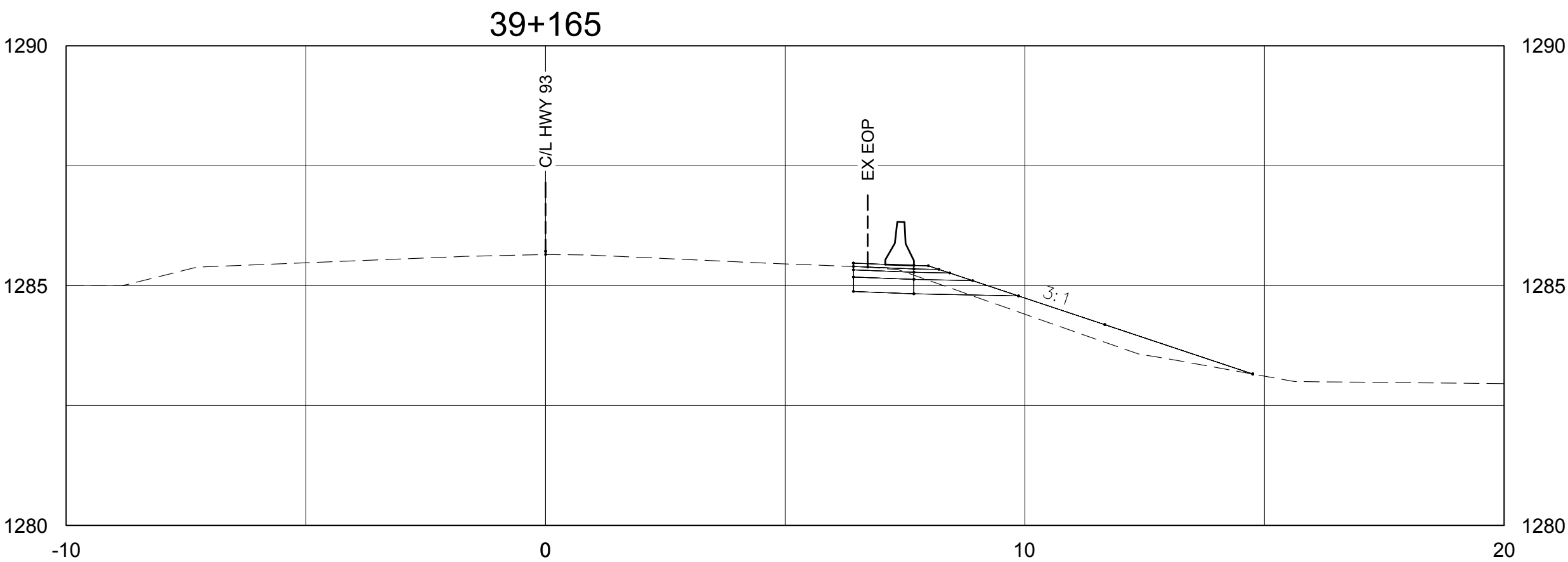
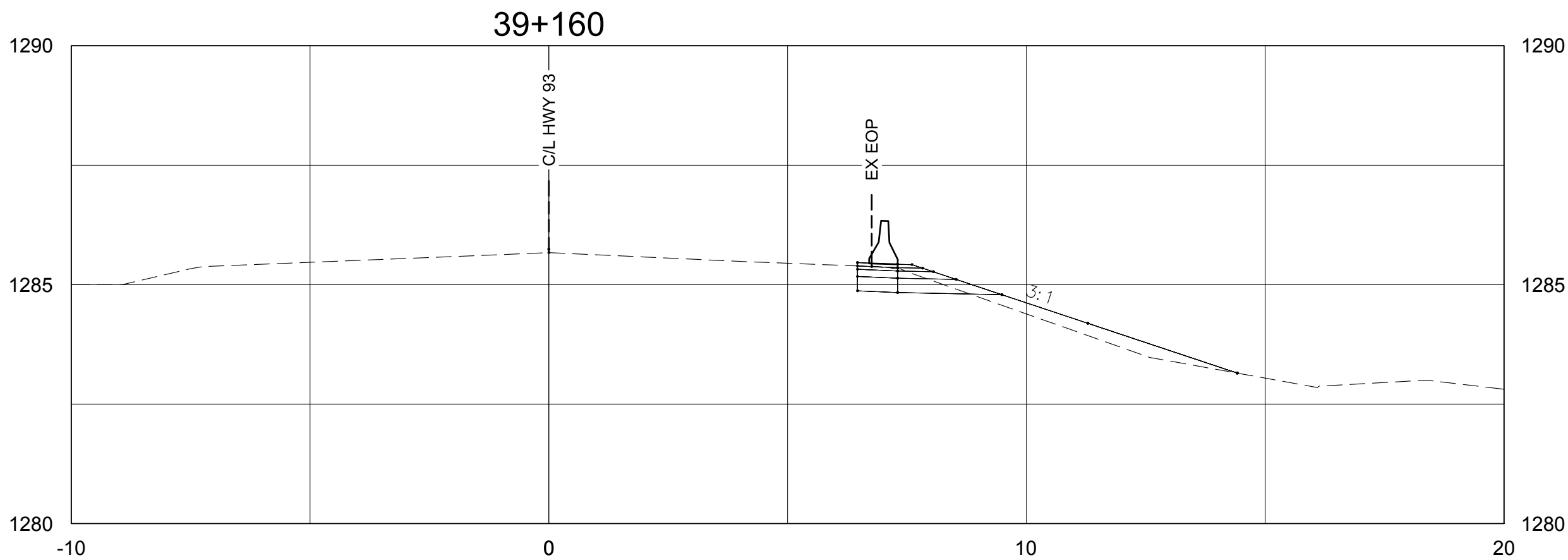
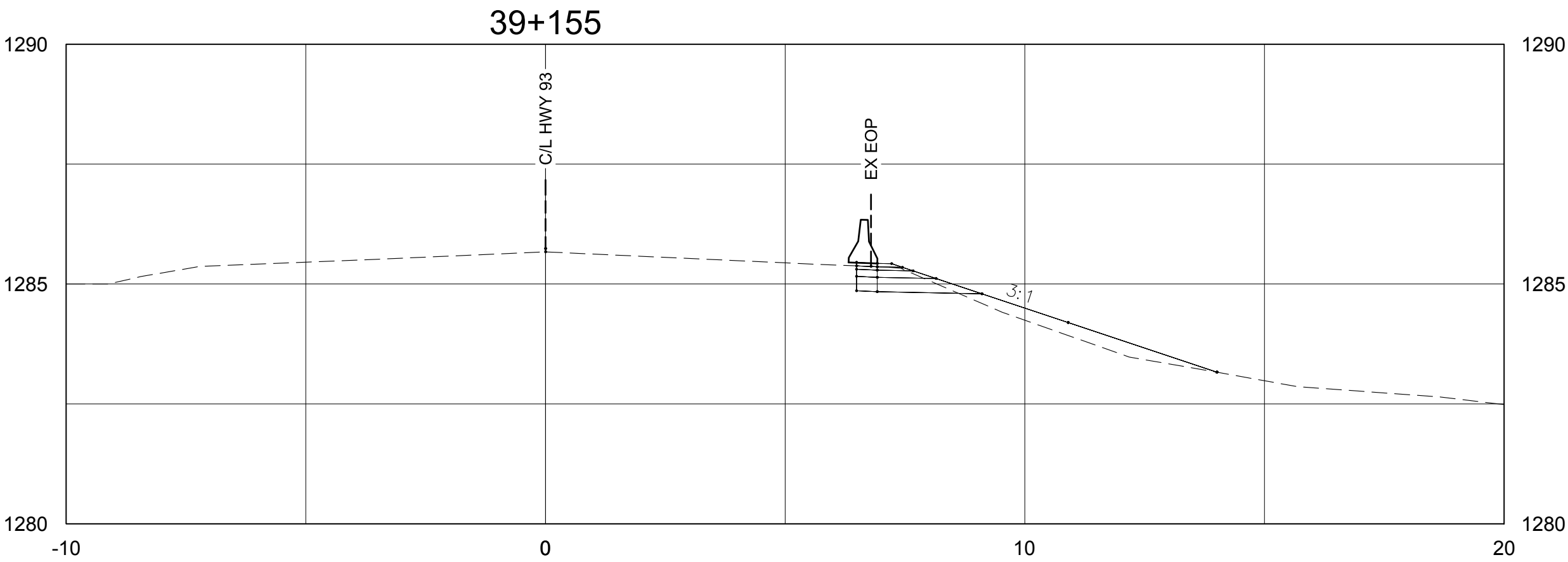
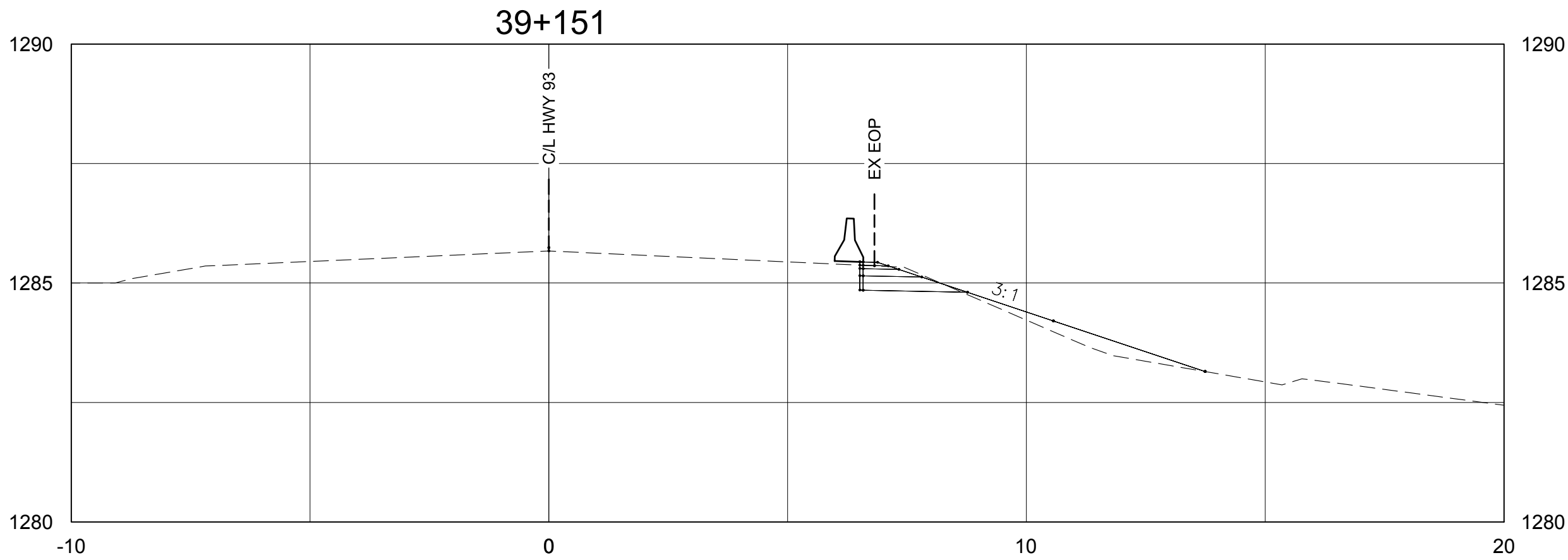
Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF-WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**CROSS SECTIONS
STA 39+151 TO STA 39+175**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019-04-18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0  2.5m

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Date	Date

Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille XS04
Drawing Set No./Nº de série du dessin 60570877-C1		



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Revision / Revision


A
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Detail number A Numéro de détail
Sheet number B Numéro de la feuille

Linear dimensions Dimensions linéaires
in millimetres en millimètres

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

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Project title/Titre du projet
**HIGHWAY 93 SOUTH
BANFF–WINDERMERE HIGHWAY
SAFETY IMPROVEMENTS
KOOTENAY NATIONAL PARK**

Drawing title/Titre du dessin
**CROSS SECTIONS
STA 39+180 TO STA 39+197**

Surveyed by/Arpenté par JM	Drawn by/Dessiné par AU	Date 2019–04–18
Designed by/Concept par RL	Reviewed by/Revisé par BAS	Scale/Echelle 0 2.5m

Client Acceptance/Acceptation du client	Approved by/Approuvé par
Date	Date

Project No./Nº du projet 67308	Asset No./Nº du bien	Sheet No./ Nº de la feuille XS05
Drawing Set No./Nº de série du dessin 60570877–C2		

