

Parks Canada
Agency

L'Agence Parcs
Canada

KM 88.5 TO 89.2
TRANS-CANADA HIGHWAY
SLOPE REPROFILING

YOHO NATIONAL PARK
BRITISH COLUMBIA

PCA PROJECT No.
569.01
GOLDER PROJECT No.
1777048/2000/2401



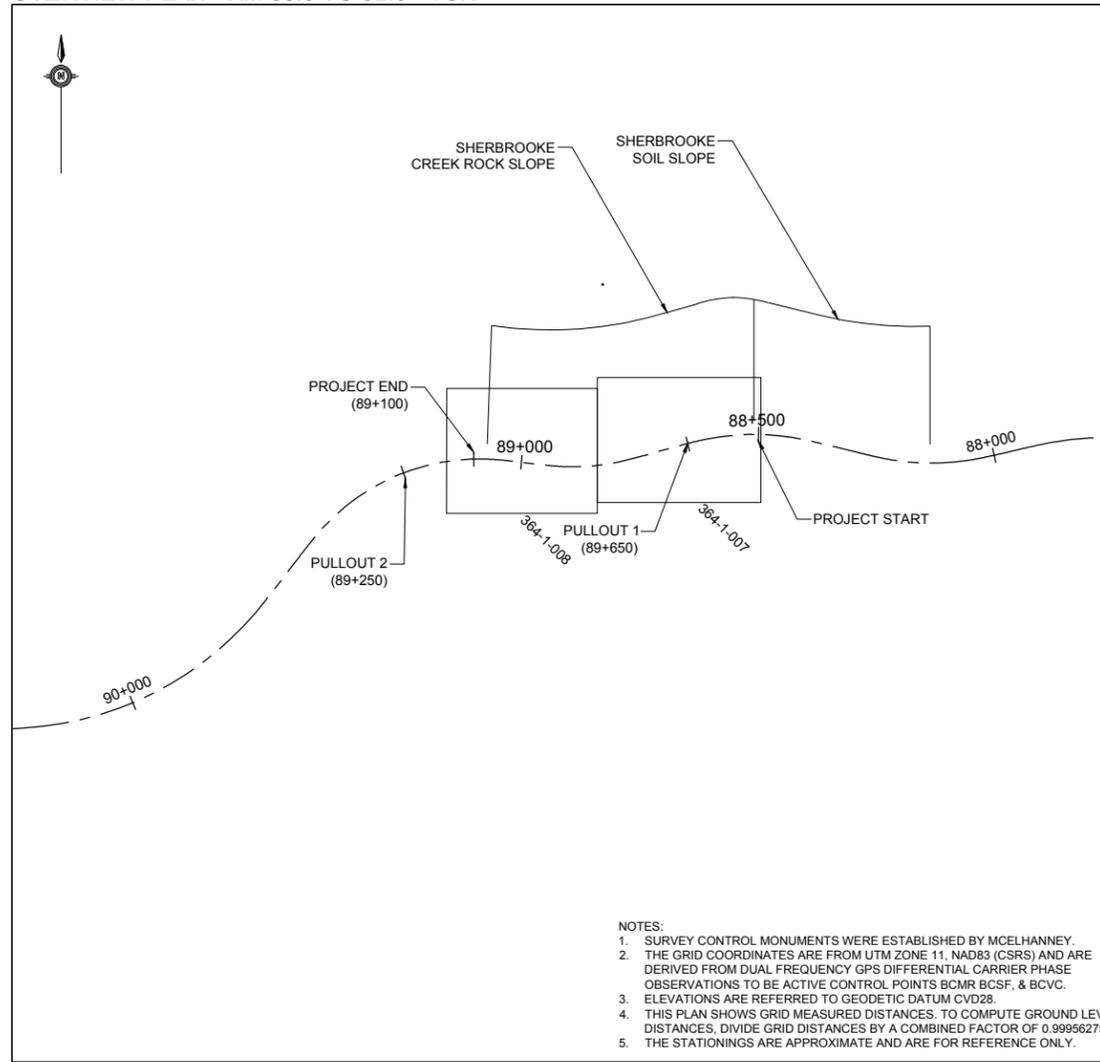
ISSUED FOR TENDER
FEBRUARY 2018

\\polder.gds\gdl\burmby\CAD_GIS\Clients\Parks_Canada_Agency\Yoho_National_Park\99_PROJECTS\177704802_PRODUCION\2000\2401\1777048-2000-2401-001.dwg [001] February 02, 2018 - 8:36:40 am (BY: BETTOSCHI, GIANNI)

DRAWING INDEX			
DRAWING No.	DRAWING TITLE	REVISION	REVISION DATE
001	DRAWING INDEX, LEGEND, YOHO CONTROL MONUMENTS, PROJECT LOCATION AND KEY PLAN	0	2018-02-01
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009	ROCK SLOPE CROSS SECTIONS STA. 88+500 TO STA. 88+660	0	2018-02-01
010	ROCK SLOPE CROSS SECTIONS STA. 88+670 TO STA. 88+720	0	2018-02-01
011	ROCK SLOPE CROSS SECTIONS STA. 88+740 TO STA. 88+840	0	2018-02-01
012	ROCK SLOPE CROSS SECTIONS STA. 88+860 TO STA. 88+960	0	2018-02-01
013	ROCK SLOPE CROSS SECTIONS STA. 88+980 TO STA. 89+100	0	2018-02-01



OVERVIEW PLAN - KM 86.0 TO 92.0 - TCH



- NOTES:
1. SURVEY CONTROL MONUMENTS WERE ESTABLISHED BY MCELHANNEY.
 2. THE GRID COORDINATES ARE FROM UTM ZONE 11, NAD83 (CSRS) AND ARE DERIVED FROM DUAL FREQUENCY GPS DIFFERENTIAL CARRIER PHASE OBSERVATIONS TO BE ACTIVE CONTROL POINTS BCMR BCSF, & BCVC.
 3. ELEVATIONS ARE REFERRED TO GEODETIC DATUM CVD28.
 4. THIS PLAN SHOWS GRID MEASURED DISTANCES. TO COMPUTE GROUND LEVEL DISTANCES, DIVIDE GRID DISTANCES BY A COMBINED FACTOR OF 0.999562753.
 5. THE STATIONINGS ARE APPROXIMATE AND ARE FOR REFERENCE ONLY.

SCALE: 1:20,000

LEGEND

	1200	MAJOR TOPOGRAPHY CONTOUR
		MINOR TOPOGRAPHY CONTOUR
		CONTROL LINE AND STATIONING
	CP 03.01	CONTROL POINT
		BORDER OF WILDERNESS ZONE
		SHERBROOKE ROCK CUT SLOPE FACE
		TREES FELLED BY OTHERS
		DITCH BOTTOM
		LIMIT OF RIPARIAN ZONE

MISCELLANEOUS ABBREVIATIONS

BH	BORE HOLE	PROP	PROPOSED
BW	BACK OF SIDEWALK	PP	POWER POLE
CB	CATCH BASIN	S	SANITARY
C&G	CURB AND GUTTER	ST	STORM
C.I.P.	CAST IN PLACE CONCRETE	W	WATER
CI	CULVERT INLET	NB	NORTHBOUND
CO	CULVERT OUTLET	SB	SOUTHBOUND
DES	DESIGN	EB	EASTBOUND
EP	EDGE OF PAVEMENT	WB	WESTBOUND
EX	EXISTING	N.I.C.	NOT IN CONTRACT
LOG	LIP OF GUTTER		
LS	LIGHT STANDARD		
MH	MANHOLE		

YOHO CONTROL MONUMENTS

MONUMENT No.	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	LOCATION
1238	5698552.932	543722.045	1570.583	TH	88+242	SHERBROOKE SOIL SLOPE
1239	5698562.787	543654.634	1566.206	TH	88+310	SHERBROOKE SOIL SLOPE
1906	5698572.137	543599.649	1563.273	TH	88+365	SHERBROOKE SOIL SLOPE
1240	5698587.207	543525.981	1559.986	TH	88+442	SHERBROOKE SOIL SLOPE
2077	5698558.38	543329.171	1550.343	TH (3031)	88+651	SHERBROOKE CREEK ROCK SLOPE
2076	5698546.342	543273.142	1548.381	TH (3030)	88+709	SHERBROOKE CREEK ROCK SLOPE
2075	5698542.152	543234.137	1547.168	TH (3029)	88+747	SHERBROOKE CREEK ROCK SLOPE
2074	5698534.687	543183.637	1546.062	TH (3028)	88+797	SHERBROOKE CREEK ROCK SLOPE
2073	5698526.085	543133.986	1544.282	TH (3027)	88+846	SHERBROOKE CREEK ROCK SLOPE
2072	5698522.826	543086.518	1542.400	TH (3026)	88+892	SHERBROOKE CREEK ROCK SLOPE
2071	5698527.283	543037.585	1539.829	TH (3025)	88+939	SHERBROOKE CREEK ROCK SLOPE
2070	5698532.797	542986.168	1537.027	TH (3024)	88+990	SHERBROOKE CREEK ROCK SLOPE
2069	5698540.342	542920.379	1533.835	TH (3023)	89+057	SHERBROOKE CREEK ROCK SLOPE
2067	5698515.470	542757.464	1525.629	TH (3021)	89+230	LR. SHERBROOKE CREEK ROCK SLOPE
1947	5698492.143	542719.031	1523.624	TH	89+277	LR. SHERBROOKE CREEK ROCK SLOPE
2066	5698474.004	542670.840	1521.315	TH (3020)	89+331	LR. SHERBROOKE CREEK ROCK SLOPE



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 BRITISH COLUMBIA**

**KM 88.5 TO KM 89.2
 TRANS-CANADA HIGHWAY
 SLOPE REPROFILING**

Designed by/Concept par
J. RICHMOND

Drawn by/Dessine par
J. DHALIWAL

Seal/Joint

Client/client
PARKS CANADA AGENCY

Drawing Title/Titre du dessin

**DRAWING INDEX, LEGEND,
 YOHO CONTROL MONUMENTS,
 PROJECT LOCATION AND KEY PLAN**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
569.01	001	0



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Revision/Revison Date/Date Description/Description DES DWN CHK

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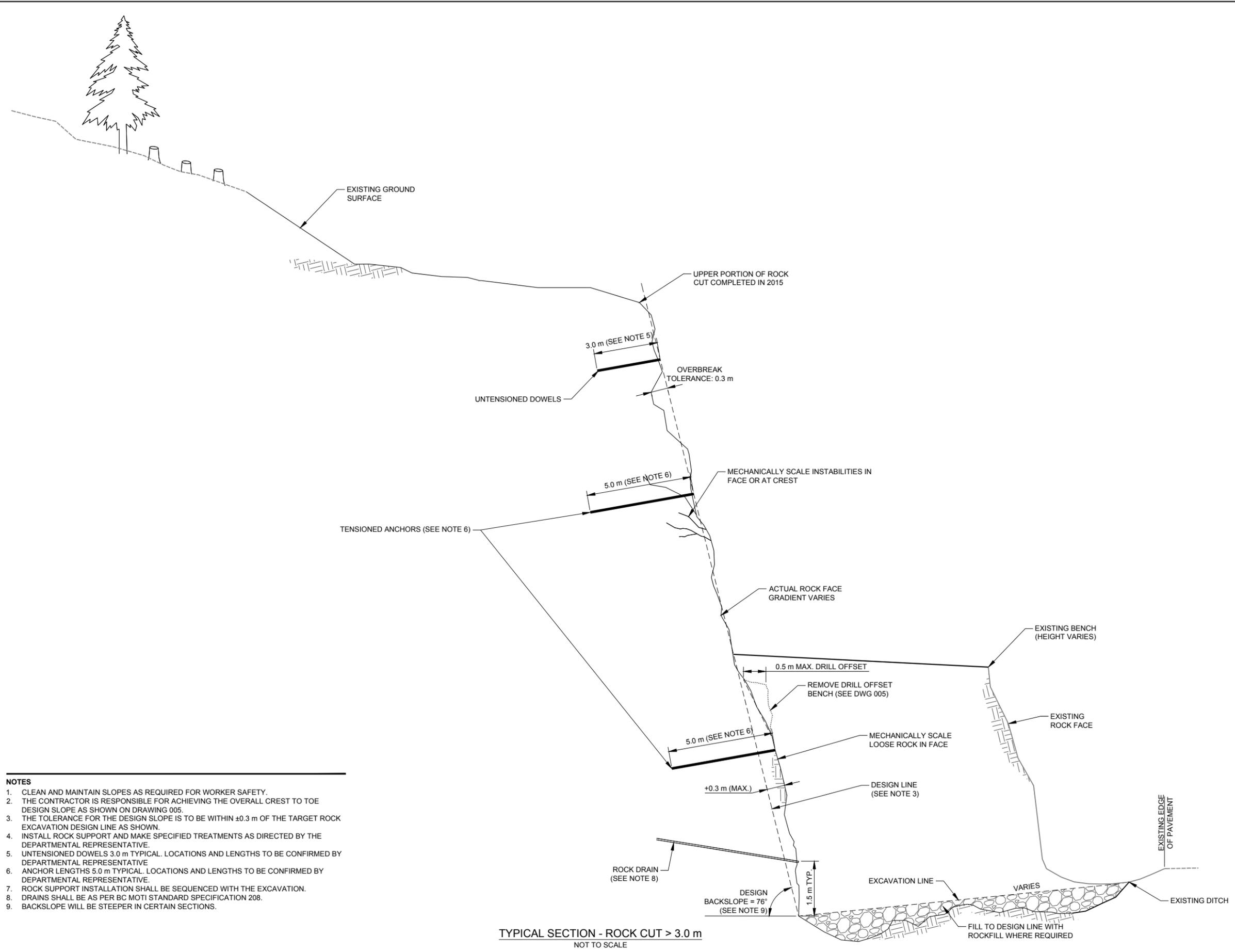
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Drawing title/Titre du dessin

**SHERBROOKE ROCK SLOPE
 TYPICAL SECTION AND
 ROCK SUPPORT**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
569.01	003	0



TYPICAL SECTION - ROCK CUT > 3.0 m
 NOT TO SCALE

- NOTES**
- CLEAN AND MAINTAIN SLOPES AS REQUIRED FOR WORKER SAFETY.
 - THE CONTRACTOR IS RESPONSIBLE FOR ACHIEVING THE OVERALL CREST TO TOE DESIGN SLOPE AS SHOWN ON DRAWING 005.
 - THE TOLERANCE FOR THE DESIGN SLOPE IS TO BE WITHIN ±0.3 m OF THE TARGET ROCK EXCAVATION DESIGN LINE AS SHOWN.
 - INSTALL ROCK SUPPORT AND MAKE SPECIFIED TREATMENTS AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
 - UNTENSIONED DOWELS 3.0 m TYPICAL. LOCATIONS AND LENGTHS TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE
 - ANCHOR LENGTHS 5.0 m TYPICAL. LOCATIONS AND LENGTHS TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE.
 - ROCK SUPPORT INSTALLATION SHALL BE SEQUENCED WITH THE EXCAVATION.
 - DRAINS SHALL BE AS PER BC MOTI STANDARD SPECIFICATION 208.
 - BACKSLOPE WILL BE STEEPER IN CERTAIN SECTIONS.





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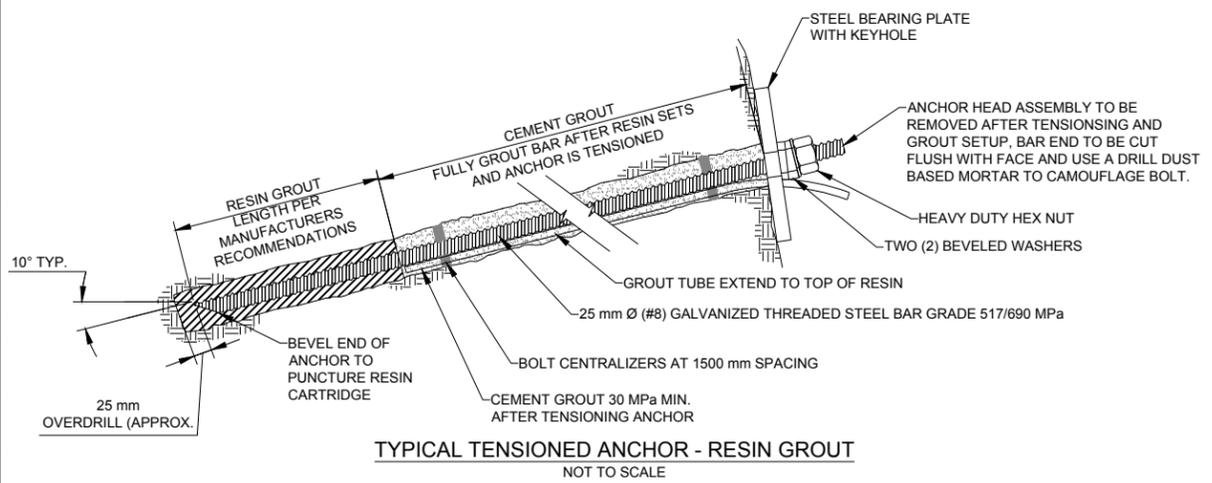
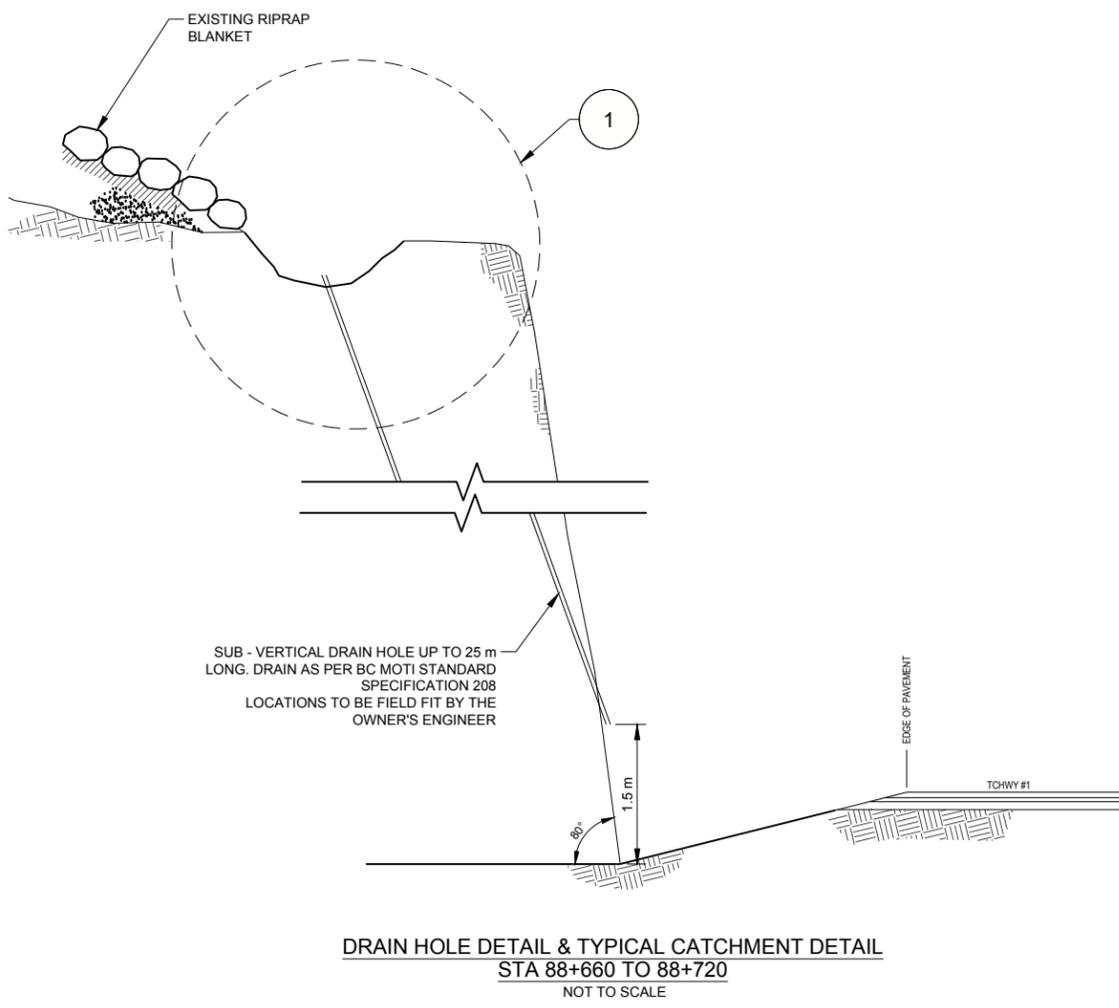
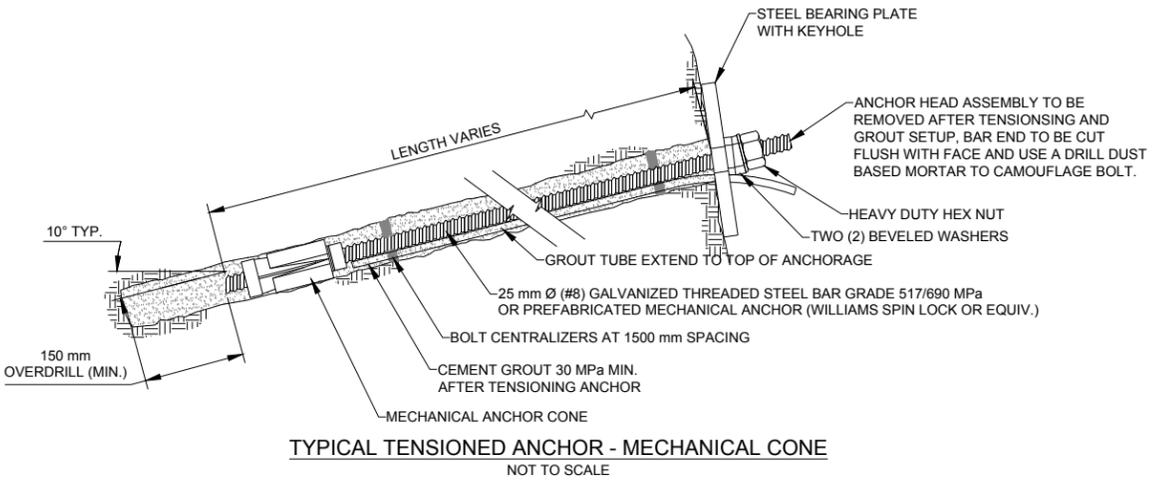
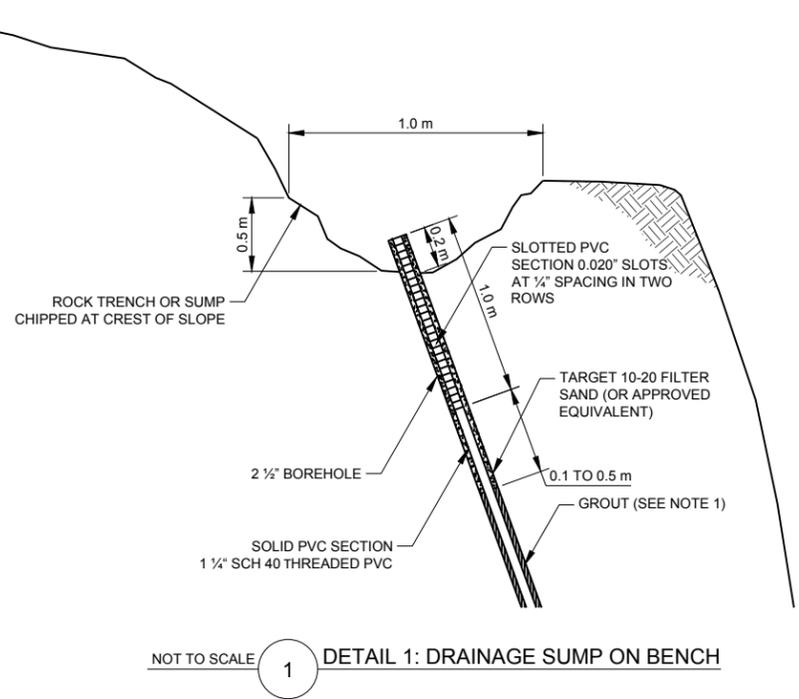
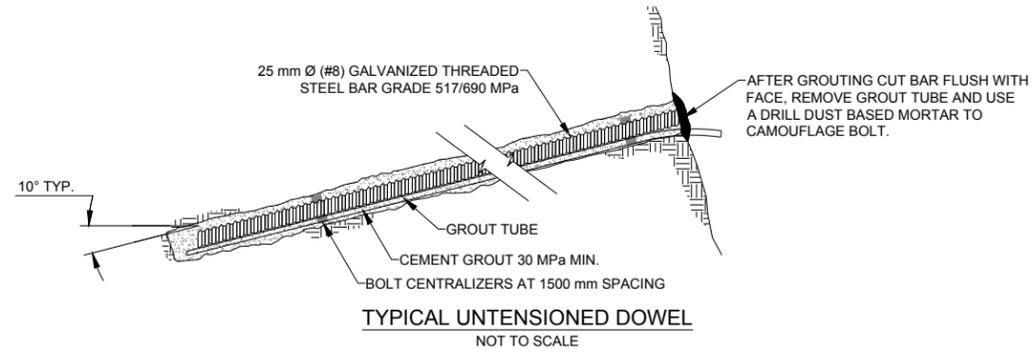
Drawn by/Dessine par
J. DHALIWAL

Seal/Joint

Client/client
PARKS CANADA AGENCY

Drawing title/Titre du dessin
**ROCK SUPPORT AND
 CATCHMENT
 TYPICAL DETAILS**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
569.01	004	0

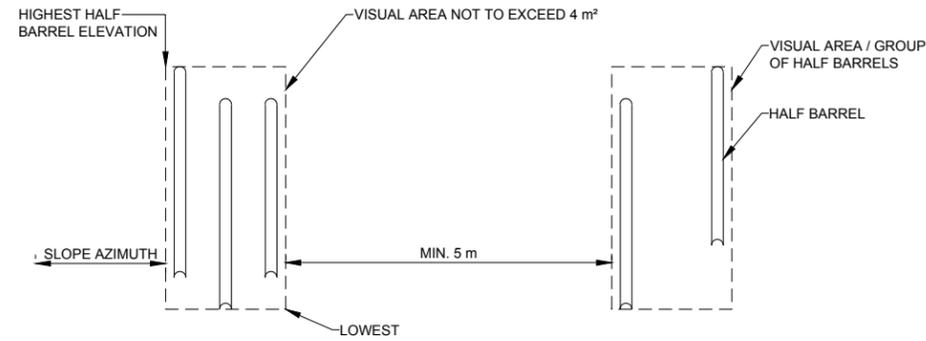


- NOTES**
- GROUT MIX PROPORTIONS FOR SUB-VERTICAL DRAINS - PORTLAND CEMENT (1); WATER (2.5); BENTONITE POWDER (0.3)

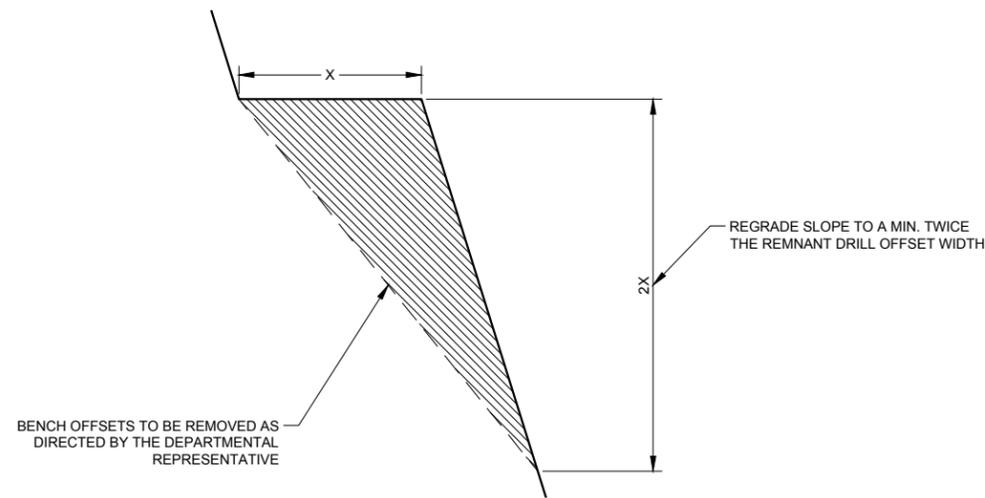
Y:\burbaby\CAD-GIS\client\parks_canada_agency\yoho_national_park\99_projects\1777048\02_PROD\PRODUCTION\2000\2401\1777048-2000-2401-004.dwg [004] February 01, 2018 - 4:36:17 pm (BY: BETTOSCHI, GIANNI)



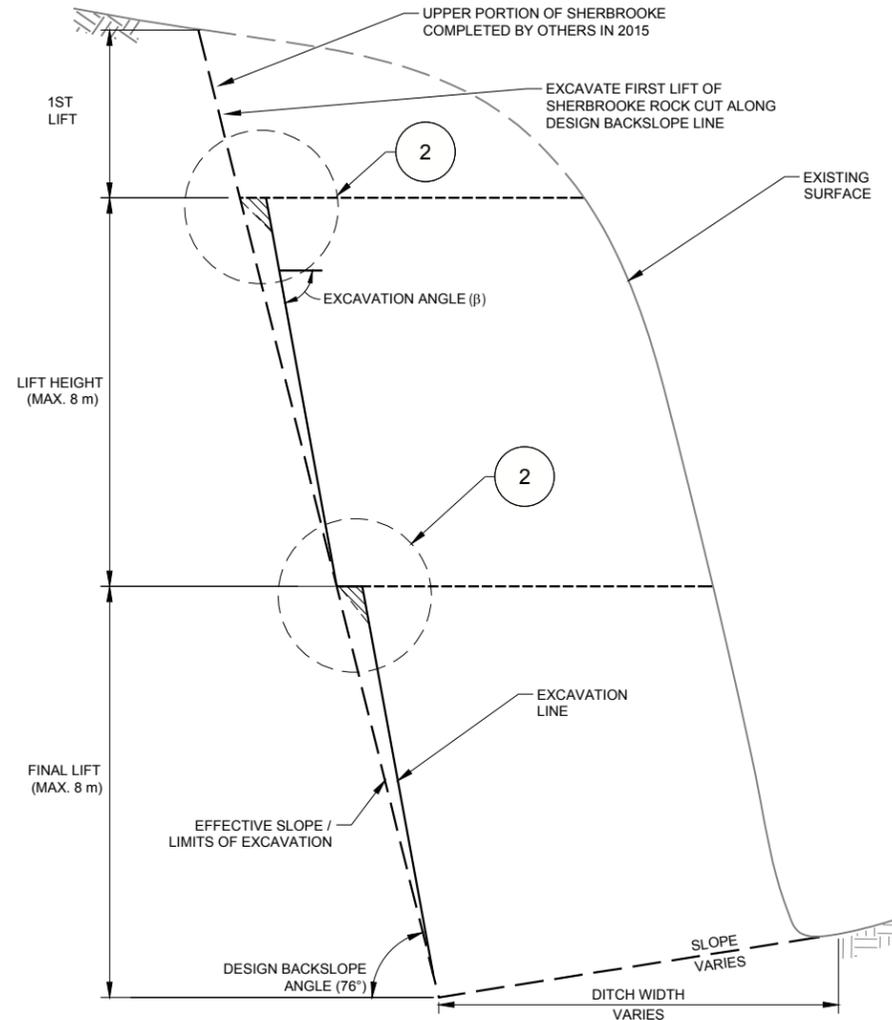
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HALF BARREL OR DRILL HOLE ACCEPTABILITY (ELEVATION VIEW OF ROCK FACE)
 NOT TO SCALE



NOT TO SCALE **2** DETAIL 2: REMOVAL OF DRILL OFFSET BENCH



EXCAVATION BACKSLOPE SHOWING DRILL OFFSETS
 NOT TO SCALE
 FOR INFORMATION PURPOSES

Revision/	Date/Date	Description/Description	DES	DWN	CHK
0	2018-02-01	ISSUED FOR TENDER	JR	GB	JR

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**ROCK SLOPE
 FINISHING DETAILS**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
569.01	005	0

NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ACHIEVING THE OVERALL CREST TO TOE EXCAVATION ANGLE USING THE MAXIMUM BENCH CUT HEIGHT AND MAXIMUM DRILL OFFSET ALLOWANCES OUTLINED IN THE PROJECT SPECIFICATIONS.





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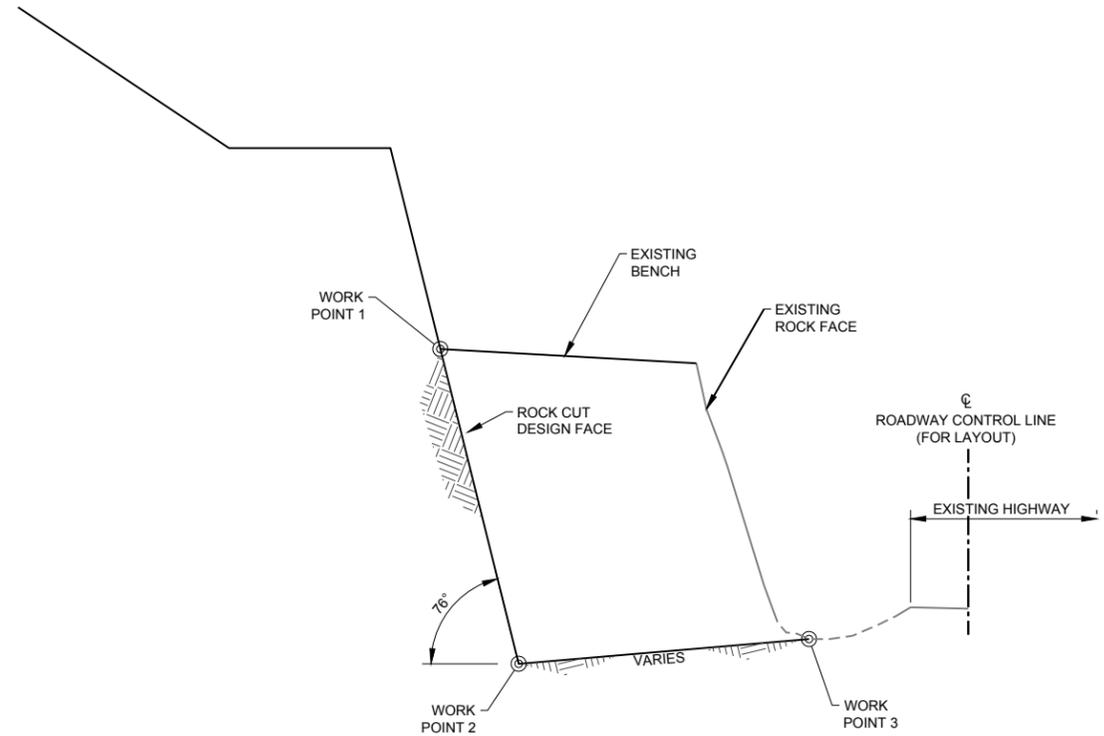
Drawing title/Titre du dessin

**ROCK CUT CONSTRUCTION LAYOUT
 TYPICAL SECTION
 SHERBROOKE**

Project No./No. du projet
569.01

Sheet/Feuille
006

Revision no./
 La Révision no.
0



ROCK SLOPE CONSTRUCTION LAYOUT POINTS
 NOT TO SCALE

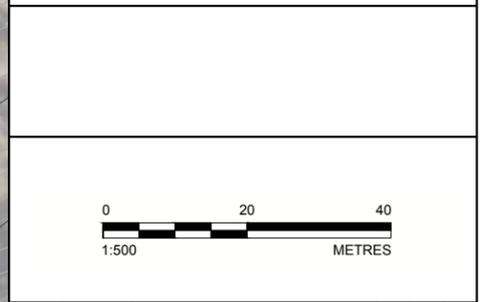
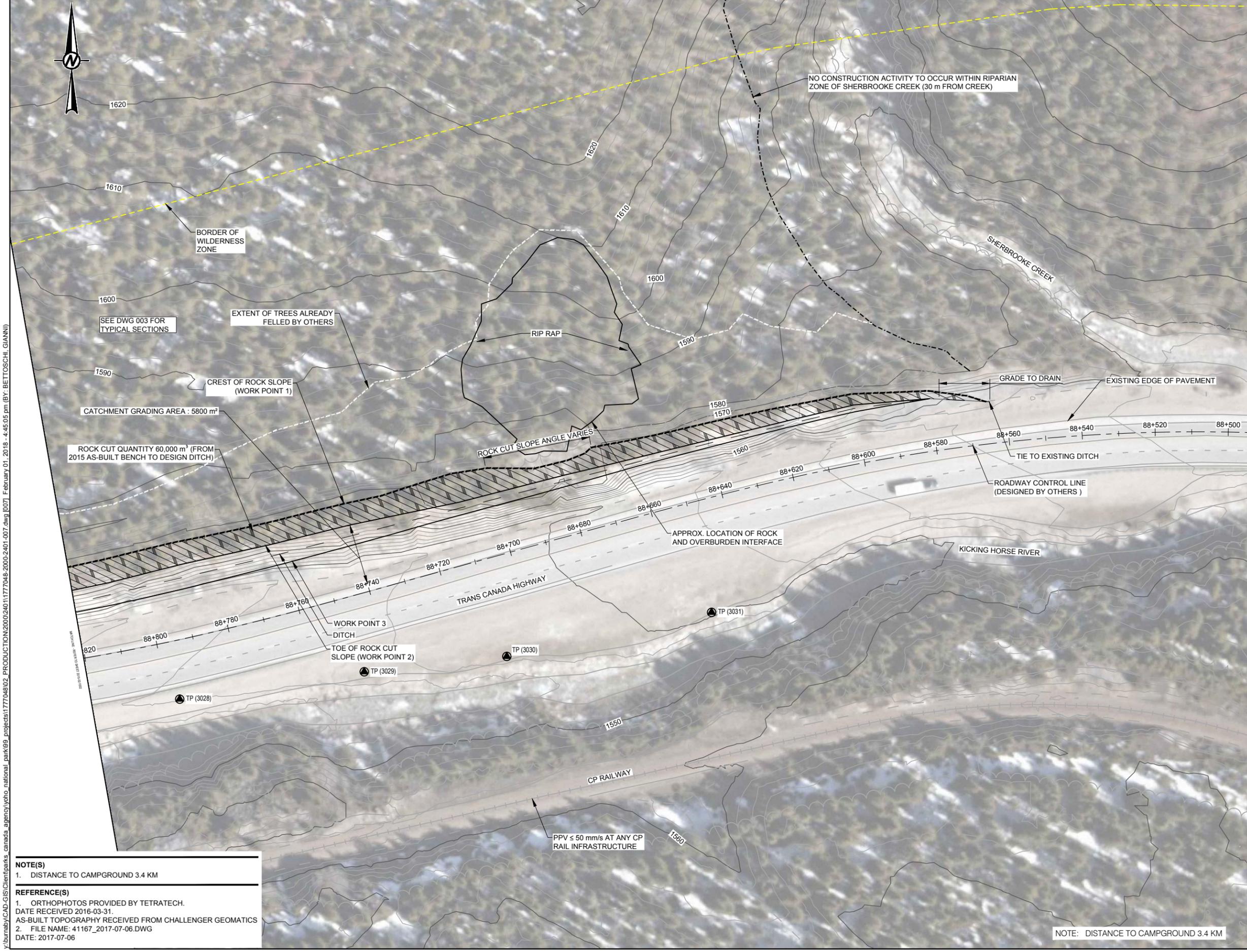
SHERBROOKE ROCK SLOPE CONSTRUCTION LAYOUT POINTS

STATION	WORK POINT No.	NORTHING	EASTING	ELEVATION (m)	STATION	WORK POINT No.	NORTHING	EASTING	ELEVATION (m)	STATION	WORK POINT No.	NORTHING	EASTING	ELEVATION (m)	STATION	WORK POINT No.	NORTHING	EASTING	ELEVATION (m)
88+560	1	5698620.395	543409.458	1559.38	88+700	1	5698596.129	543268.271	1573.379	88+860	1	5698560.279	543116.691	1549.03	89+040	1	5698569.545	542940.252	1538.685
	2	5698619.559	543409.524	1556.018		2	5698590.012	543269.961	1547.926		2	5698558.148	543116.841	1540.464		2	5698568.42	542940.146	1534.37
	3	5698613.099	543410.032	1556.632		3	5698580.126	543272.694	1549.239		3	5698548.253	543117.542	1541.826		3	5698558.092	542939.171	1535.089
88+580	1	5698617.650	543388.636	1561	88+710	1	5698594.761	543258.274	1570.564	88+880	1	5698559.089	543097.586	1547.405	89+060	1	5698569.627	542919.741	1538.083
	2	5698616.206	543388.845	1555.147		2	5698589.197	5698589.197	1547.414		2	5698557.156	543097.634	1539.649		2	5698567.513	542919.607	1533.80
	3	5698607.814	543390.058	1555.617		3	5698577.498	543263.045	1548.713		3	5698544.926	543097.943	1541.121		3	5698561.919	542919.252	1534.599
88+600	1	5698618.443	543367.531	1564.327	88+720	1	5698592.994	543248.429	1570.013	88+900	1	5698560.470	543078.468	1546.741	89+080	1	5698569.654	542899.155	1537.195
	2	5698615.710	543368.038	1553.206		2	5698587.450	543249.920	1546.902		2	5698558.391	543078.426	1538.458		2	5698567.909	542899.118	1532.40
	3	5698605.915	543369.857	1554.528		3	5698575.035	543253.351	1548.122		3	5698544.332	543078.141	1540.298		3	5698563.124	542899.016	1534.989
88+620	1	5698615.018	543347.047	1566.854	88+740	1	5698590.042	543228.476	1569.18	88+920	1	5698562.545	543059.416	1550.11					
	2	5698611.410	543347.860	1552.076		2	5698584.440	543230.020	1545.872		2	5698559.414	543059.221	1537.527					
	3	5698602.102	543349.956	1553.132		3	5698569.539	543234.125	1547.215		3	5698545.568	543058.356	1539.21					
88+640	1	5698610.336	543327.030	1568.168	88+760	1	5698584.510	543209.529	1568.078	88+940	1	5698564.429	543040.178	1550.644					
	2	5698606.188	543328.084	1551.001		2	5698578.909	543211.012	1544.839		2	5698561.000	543039.856	1536.827					
	3	5698596.754	543330.483	1551.92		3	5698567.553	543214.019	1546.189		3	5698547.776	543038.616	1538.828					
88+660	1	5698605.196	543307.363	1568.303	88+780	1	5698580.487	543189.883	1567.617	88+960	1	5698566.139	543020.677	1548.645					
	2	5698600.797	543308.557	1549.976		2	5698574.747	543191.403	1543.802		2	5698563.038	543020.325	1536.128					
	3	5698591.489	543311.083	1550.943		3	5698563.846	543194.290	1544.905		3	5698551.603	543019.025	1537.981					
88+670	1	5698603.093	543297.491	1570.297	88+800	1	5698576.323	543171.861	1568.111	88+980	1	5698566.354	543000.736	1546.994					
	2	5698598.090	543298.869	1549.463		2	5698570.158	543173.142	1542.854		2	5698563.606	543000.400	1535.891					
	3	5698587.841	543301.691	1550.175		3	5698558.562	543175.550	1544.226		3	5698554.310	542999.264	1537.181					
88+680	1	5698599.276	543288.151	1571.787	88+820	1	5698572.139	543153.482	1567.068	89+000	1	5698568.293	542980.826	1543.598					
	2	5698595.395	543289.224	1548.95		2	5698565.961	543154.489	1541.96		2	5698566.207	542980.570	1535.169					
	3	5698585.176	543292.048	1549.753		3	5698553.226	543156.565	1543.389		3	5698557.130	542979.461	1536.572					
88+690	1	5698597.711	543278.209	1572.882	88+840	1	5698567.692	543135.083	1562.003	89+020	1	5698570.185	542960.759	1541.57					
	2	5698592.703	543279.593	1548.438		2	5698562.508	543135.689	1541.067		2	5698568.439	542960.560	1534.525					
	3	5698582.083	543282.528	1549.641		3	5698550.191	543137.126	1542.539		3	5698557.632	542959.327	1535.665					

- NOTES**
- ROCK TO BE EXCAVATED BELOW WORK POINT 2 AND 3, AND GRADED TO THE DESIGN LINE AS SHOWN IN THE TYPICAL SECTION ON DRAWING 003.
 - IF THE DESIGN LINE LIES ABOVE THE EXISTING GROUND SURFACE, NO EXCAVATION IS REQUIRED.
 - IF DESIGN LINE IS BELOW EXISTING EXCAVATION, CONTRACTOR IS TO CARRY ROCK EXCAVATION TOWARDS EXISTING EDGE OF PAVEMENT.
 - WORK POINT 1 AS SHOWN ON THE CROSS-SECTIONS, TO BE CONFIRMED IN THE FIELD.

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SHERBROOKE CREEK
ROCK SLOPE PLAN
STA 88+580 TO 88+820

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569.01	007	0

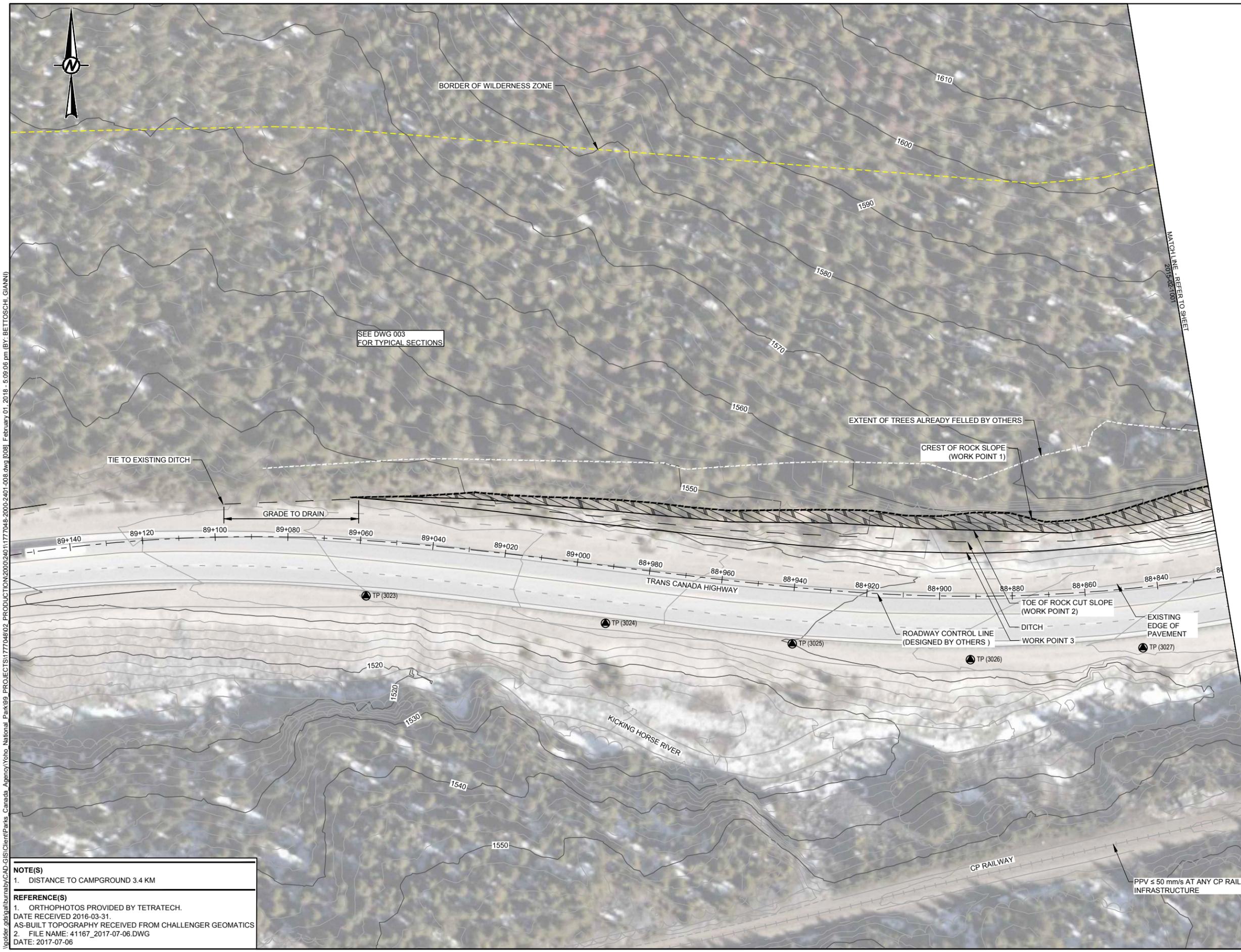
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NOTE(S)
 1. DISTANCE TO CAMPGROUND 3.4 KM

REFERENCE(S)
 1. ORTHOPHOTOS PROVIDED BY TETRATECH.
 DATE RECEIVED 2016-03-31.
 AS-BUILT TOPOGRAPHY RECEIVED FROM CHALLENGER GEOMATICS
 2. FILE NAME: 41167_2017-07-06.DWG
 DATE: 2017-07-06

NOTE: DISTANCE TO CAMPGROUND 3.4 KM





Client/client
Parks Canada L'Agence Parcs Canada
Golden Associates

0 20 40
 1:500 METRES

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SHERBROOKE CREEK
ROCK SLOPE PLAN
STA 88+820 TO 89+060

Project No./No. du projet	Sheet/Fauille	Revision no./La Révision no.
569.01	008	0

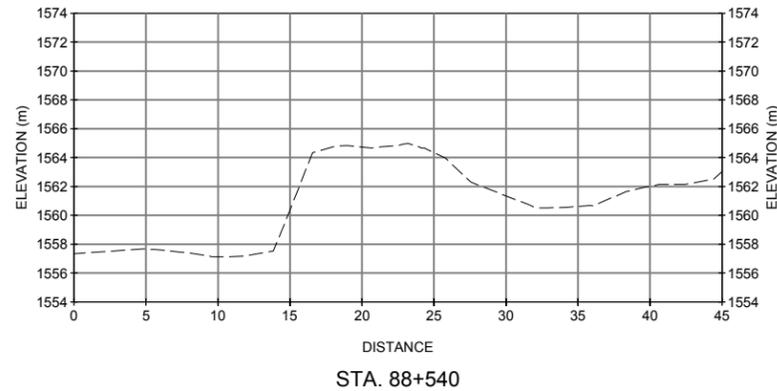
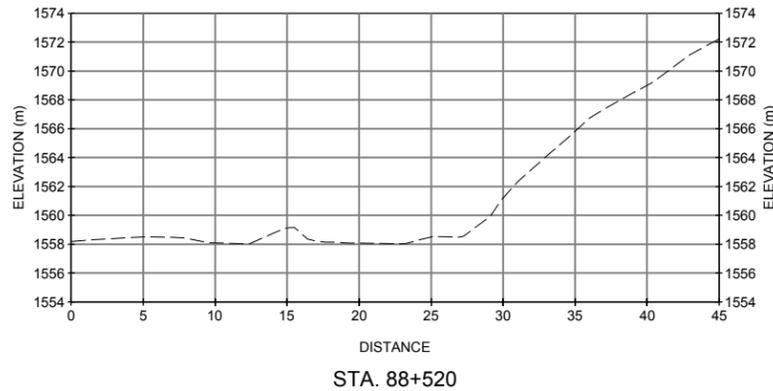
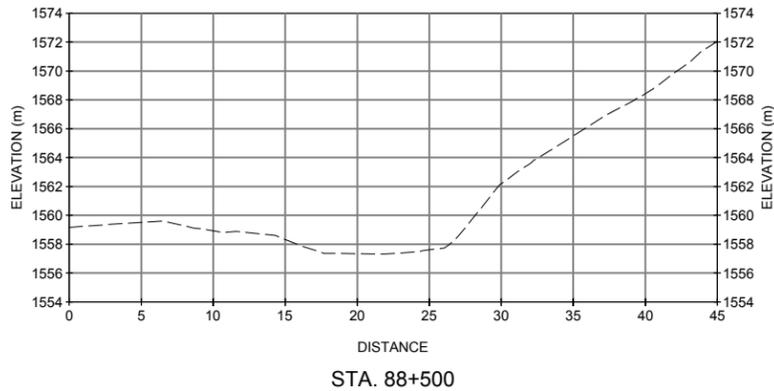
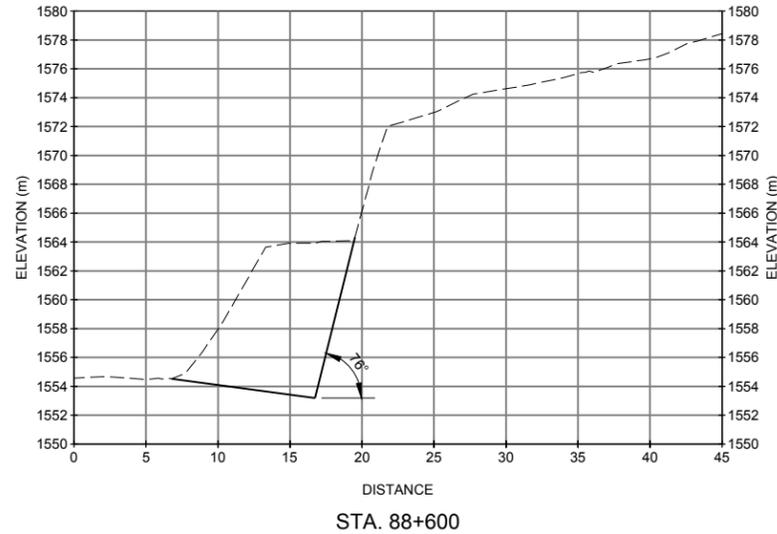
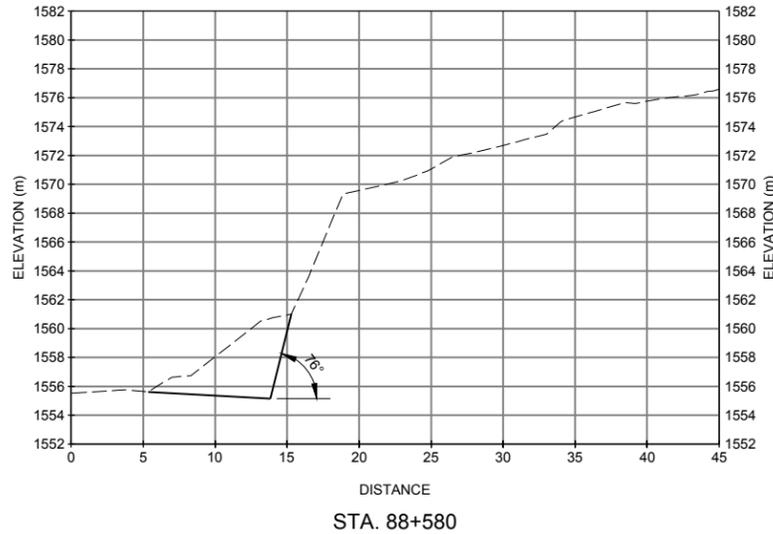
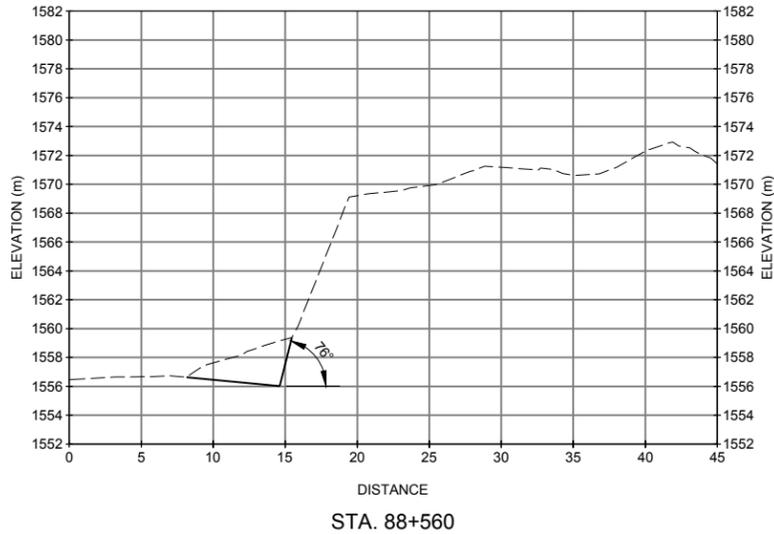
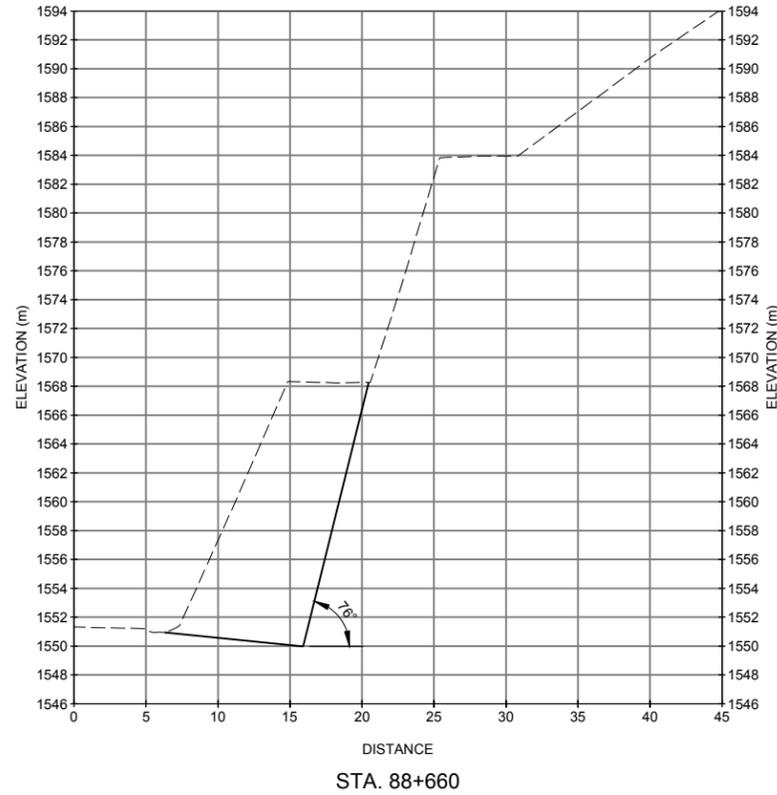
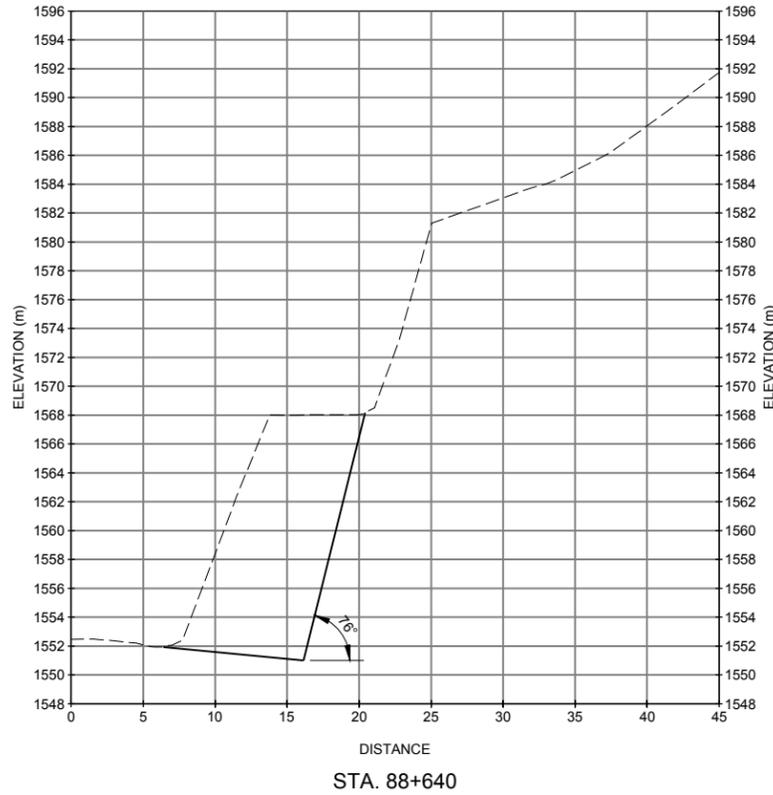
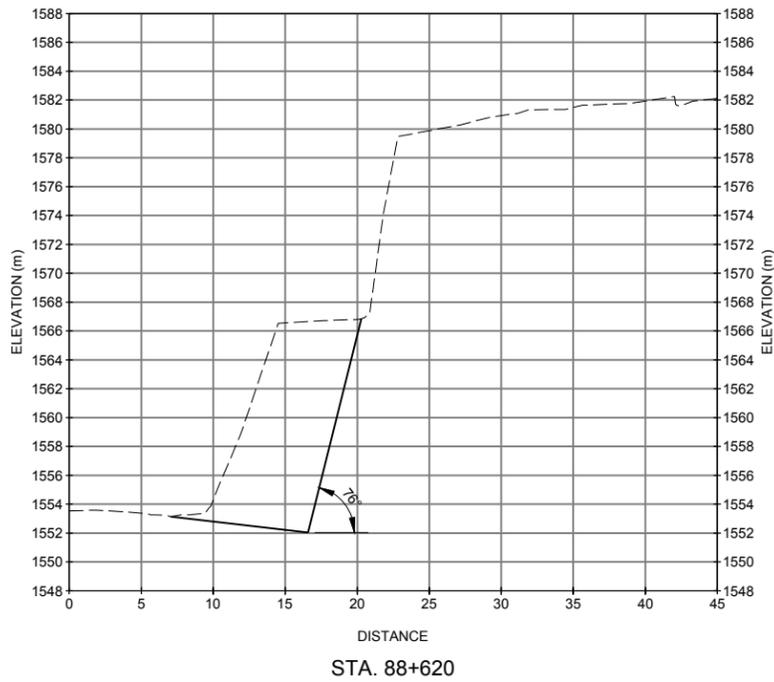
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NOTE(S)
 1. DISTANCE TO CAMPGROUND 3.4 KM

REFERENCE(S)
 1. ORTHOPHOTOS PROVIDED BY TETRATECH.
 DATE RECEIVED 2016-03-31.
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Revision/Revision	Date/Date	Description/Description	DES	DWN	CHK
0	2018-02-01	ISSUED FOR TENDER	JR	GB	JR

Project Title/Titre du projet
**YOHO NATIONAL PARK
 BRITISH COLUMBIA**

**KM 88.5 TO KM 89.2
 TRANS-CANADA HIGHWAY
 SLOPE REPROFILING**

Designed by/Concept par
J. RICHMOND

Drawn by/Dessine par
J. DHALIWAL

Seal/Joint

Client/client
PARKS CANADA AGENCY

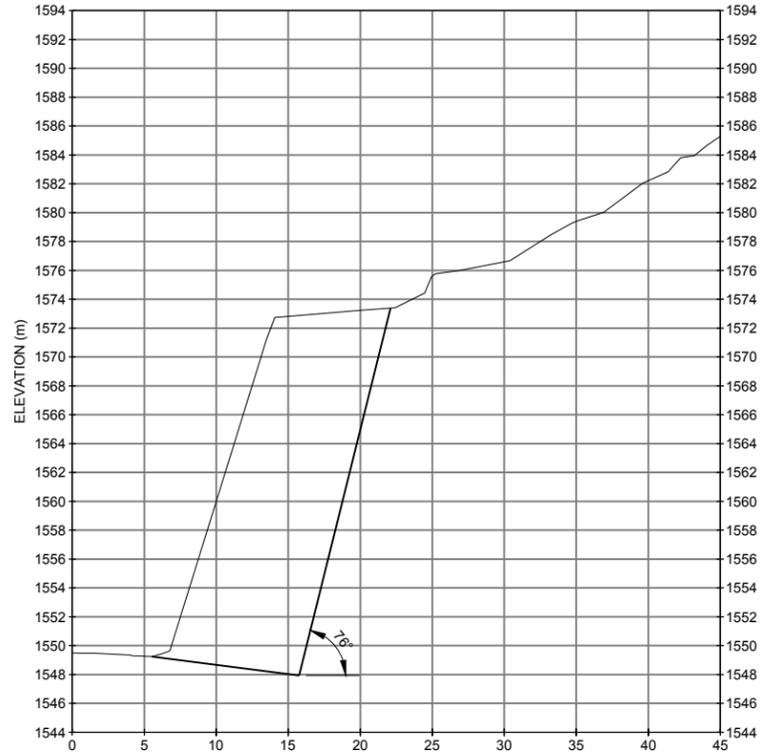
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**SHERBROOKE CREEK
 ROCK SLOPE CROSS SECTIONS
 STA. 88+500 TO STA. 88+660**

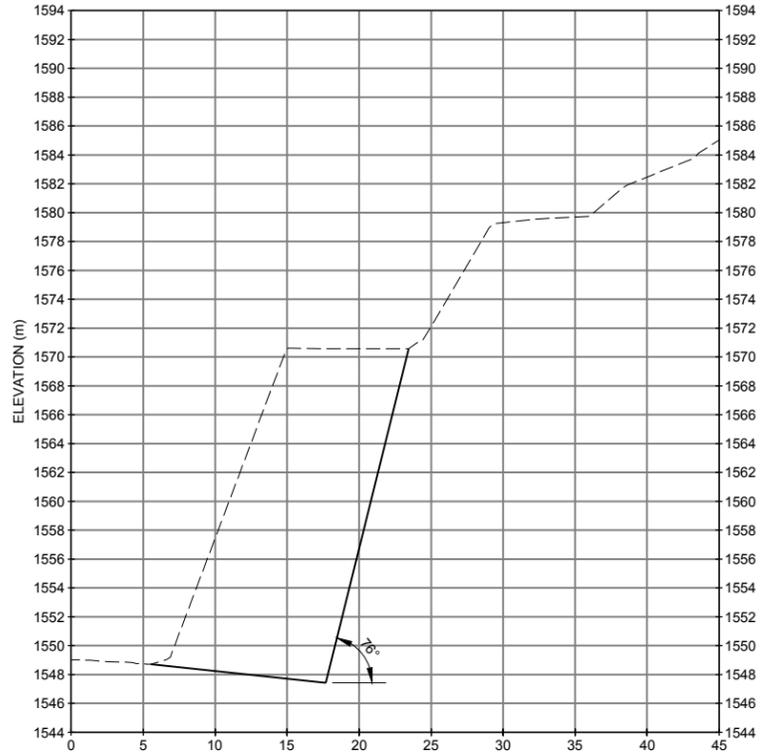
Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
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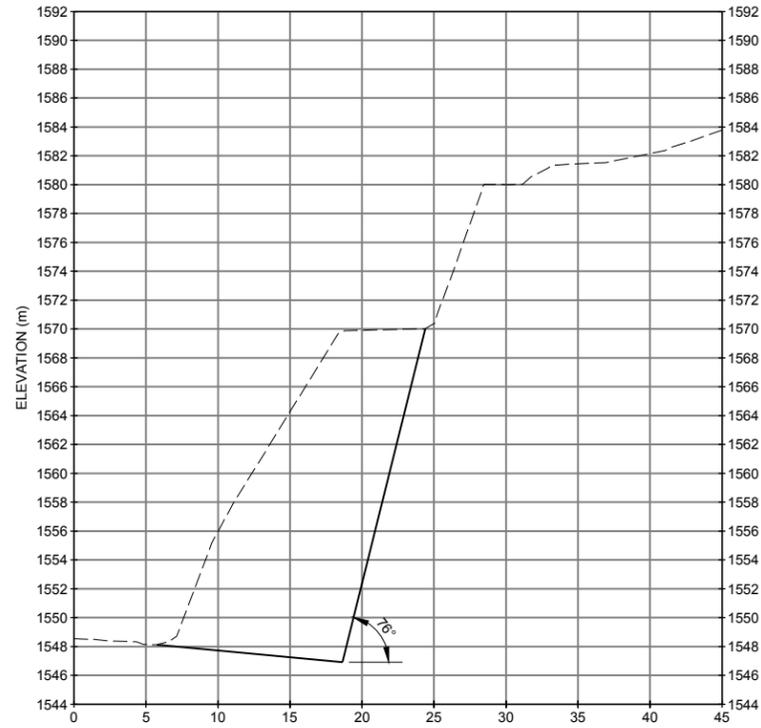
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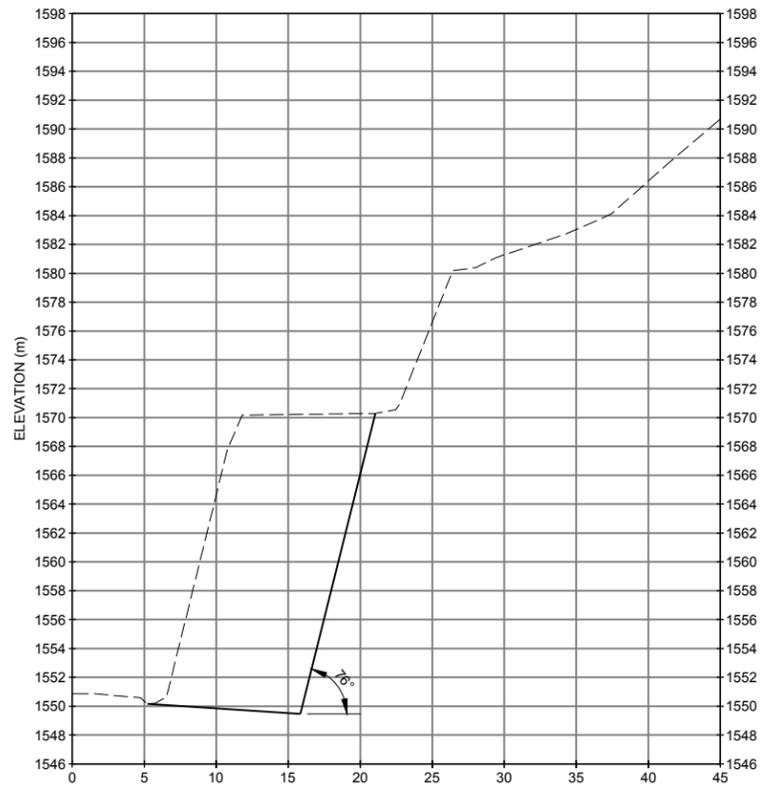
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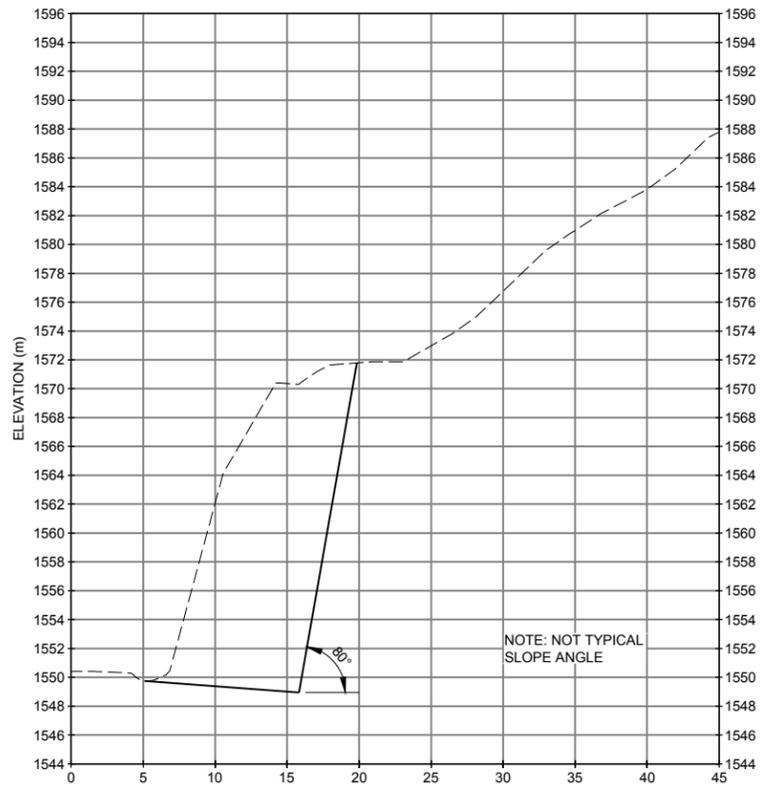
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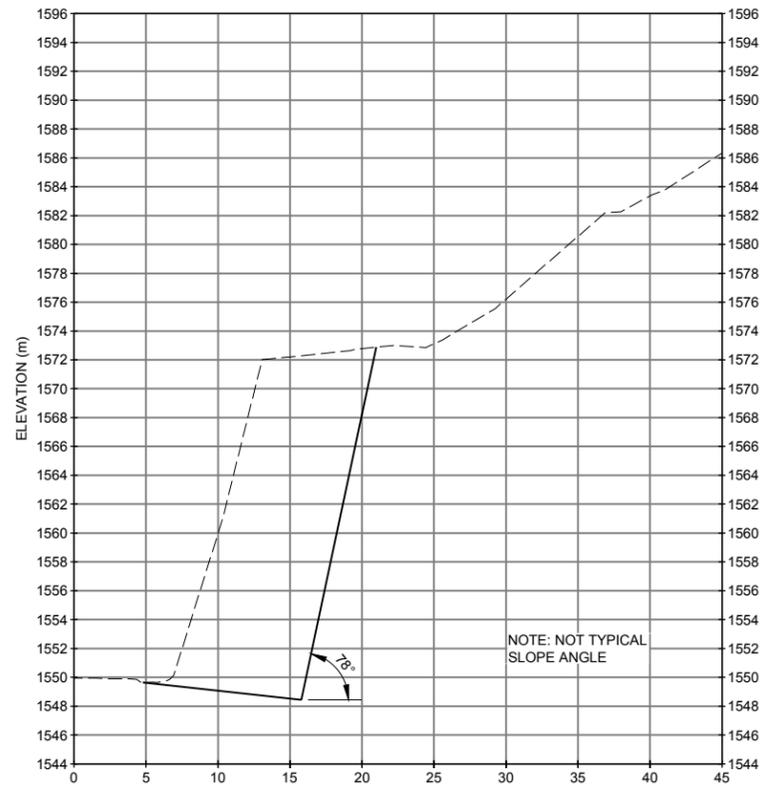
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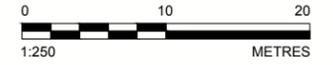
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DISTANCE
STA. 88+680



DISTANCE
STA. 88+690



Revision/Revision	Date/Date	Description/Description	DES	DWN	CHK
0	2018-02-01	ISSUED FOR TENDER	JR	GB	JR

Project Title/Titre du projet
**YOHO NATIONAL PARK
 BRITISH COLUMBIA**

**KM 88.5 TO KM 89.2
 TRANS-CANADA HIGHWAY
 SLOPE REPROFILING**

Designed by/Concept par
J. RICHMOND

Drawn by/Dessine par
J. DHALIWAL

Seal/Joint

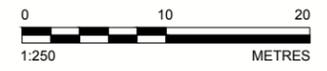
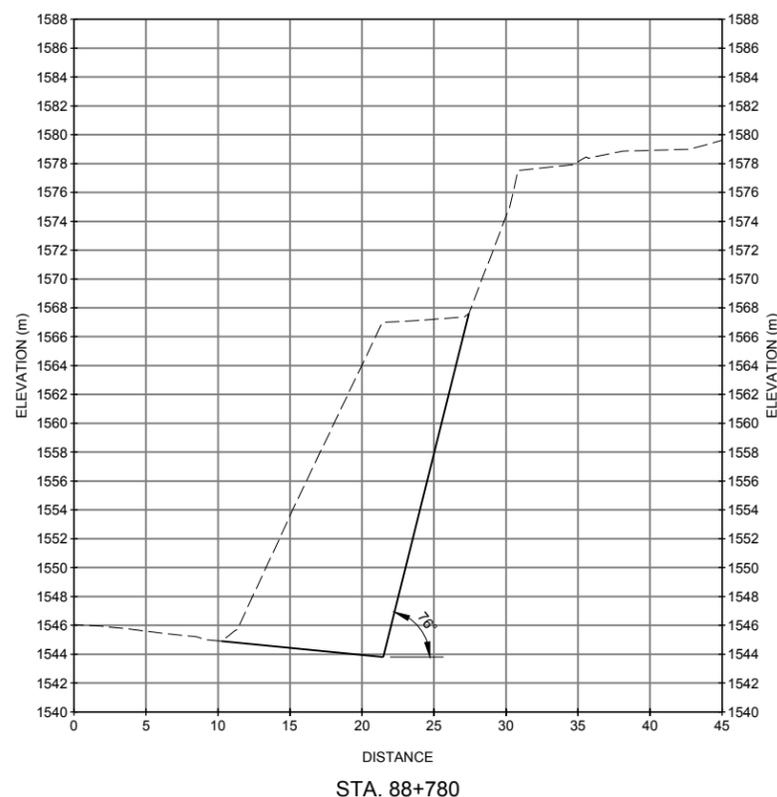
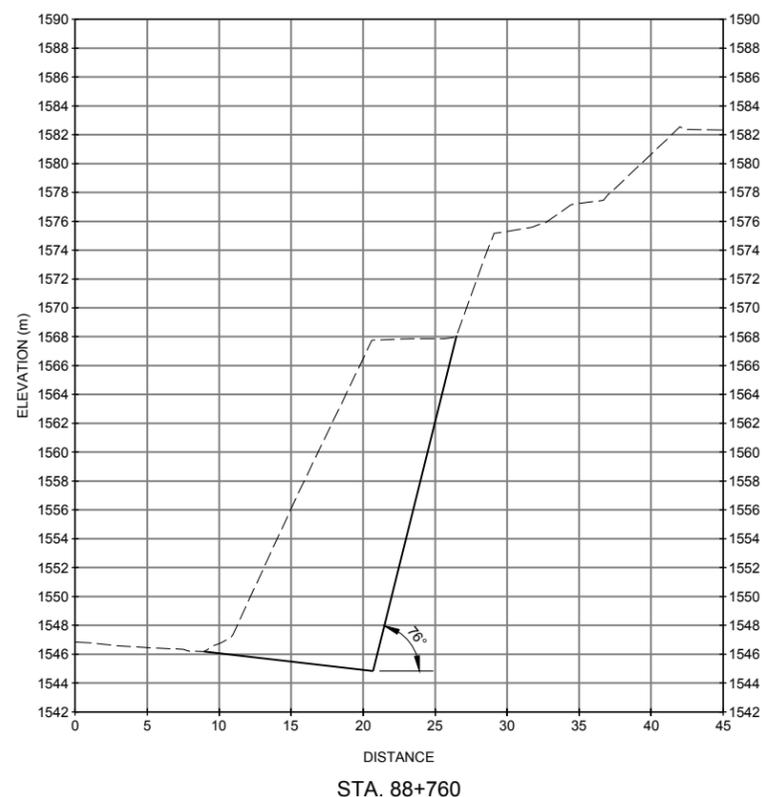
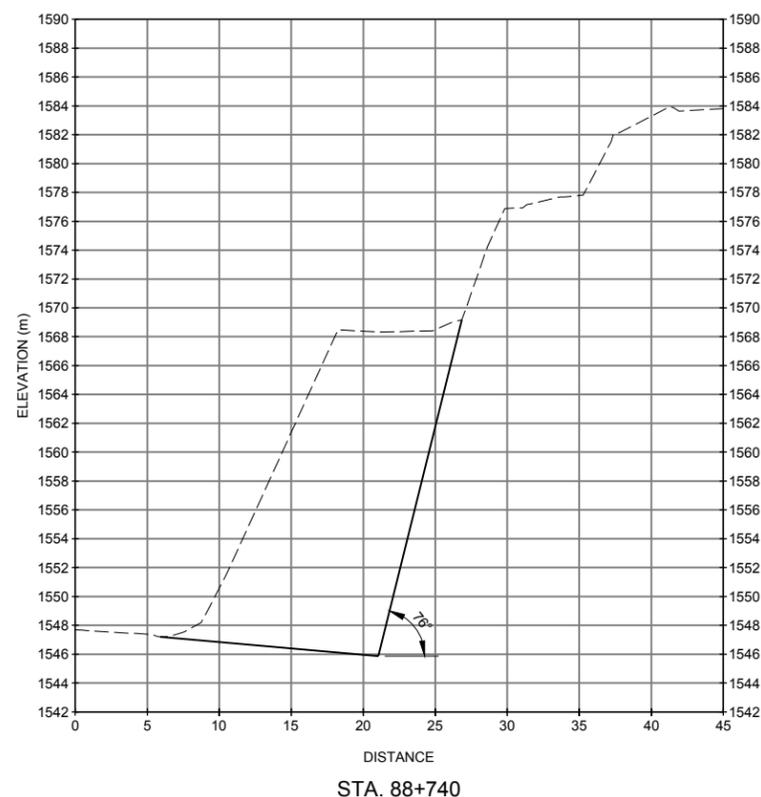
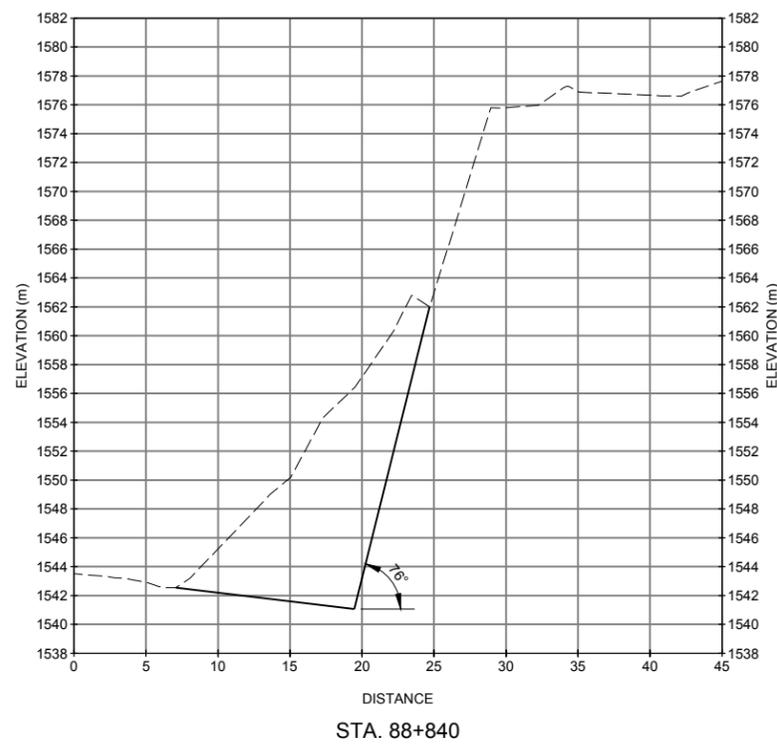
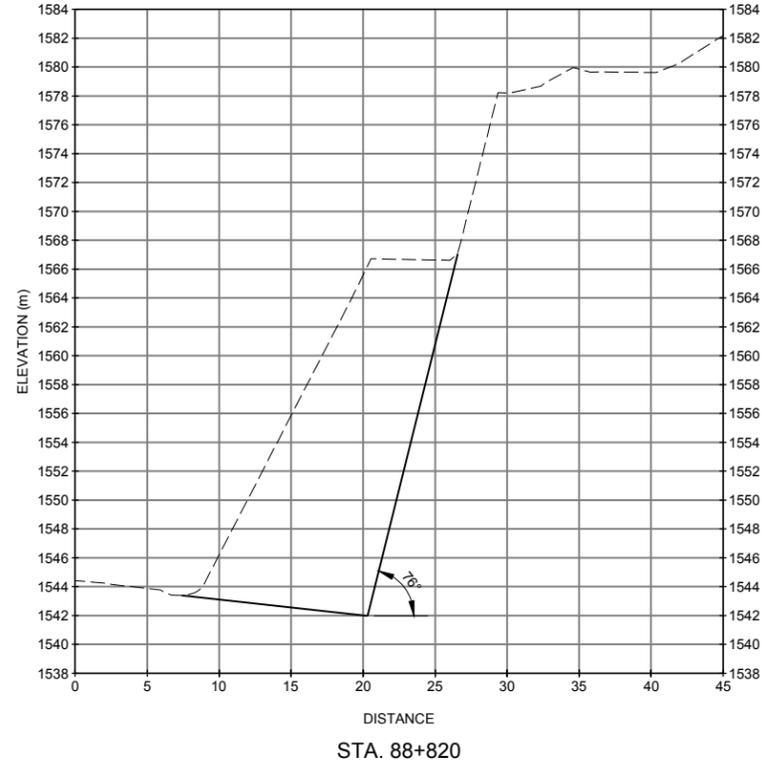
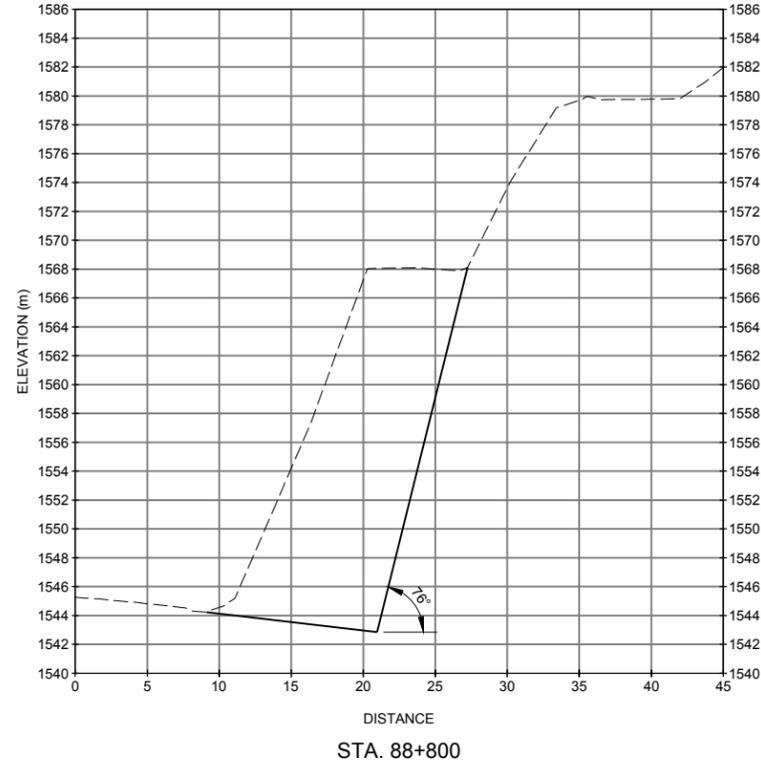
Client/client
PARKS CANADA AGENCY

Drawing Title/Titre du dessin
**SHERBROOKE CREEK
 ROCK SLOPE CROSS SECTIONS
 STA. 88+670 TO STA. 88+720**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
569.01	010	0



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0	2018-02-01	ISSUED FOR TENDER	JR	GB	JR

Project Title/Titre du projet
**YOHO NATIONAL PARK
 BRITISH COLUMBIA**

**KM 88.5 TO KM 89.2
 TRANS-CANADA HIGHWAY
 SLOPE REPROFILING**

Designed by/Concept par
J. RICHMOND

Drawn by/Dessine par
J. DHALIWAL

Seal/Joint

Client/client
PARKS CANADA AGENCY

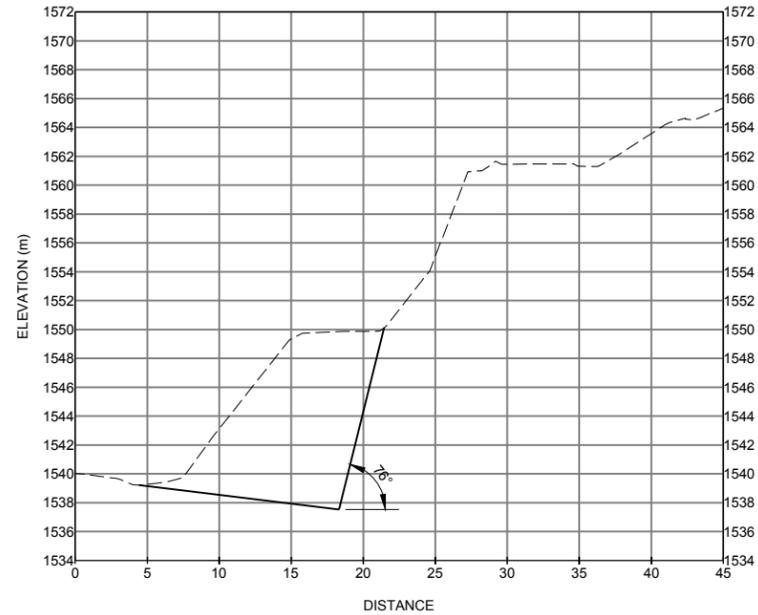
Drawing Title/Titre du dessin

**SHERBROOKE CREEK
 ROCK SLOPE CROSS SECTIONS
 STA. 88+740 TO STA. 88+840**

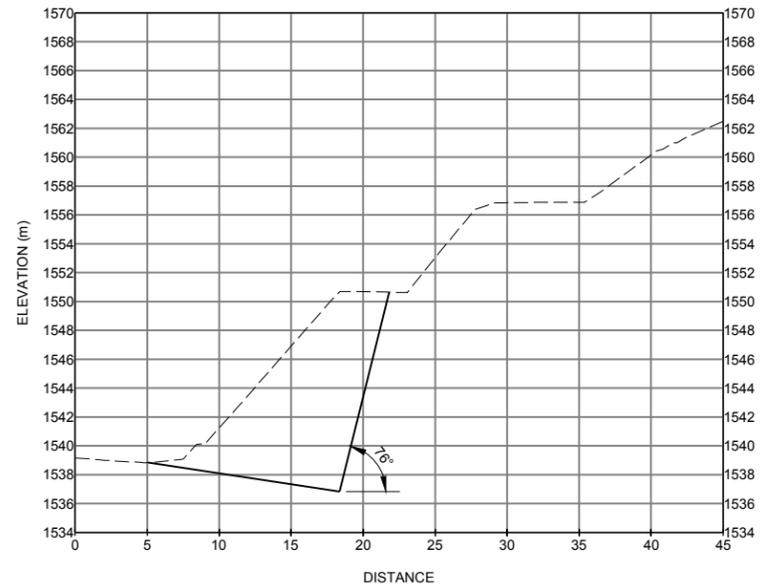
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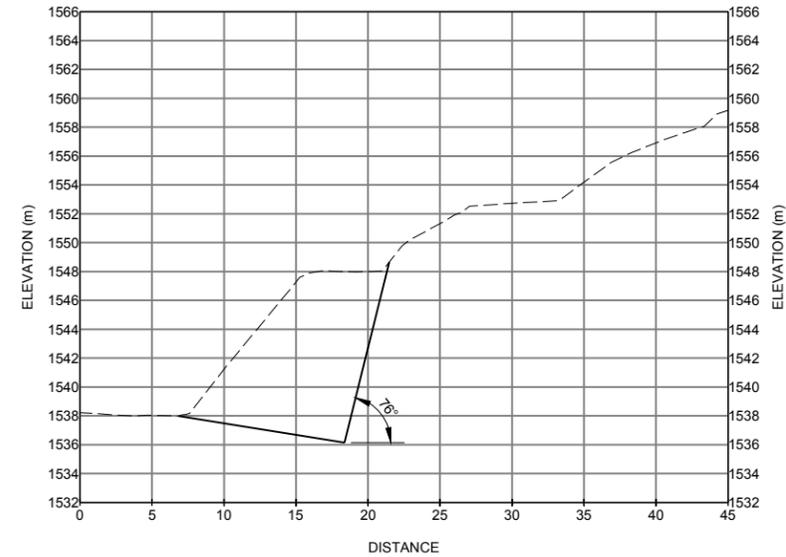
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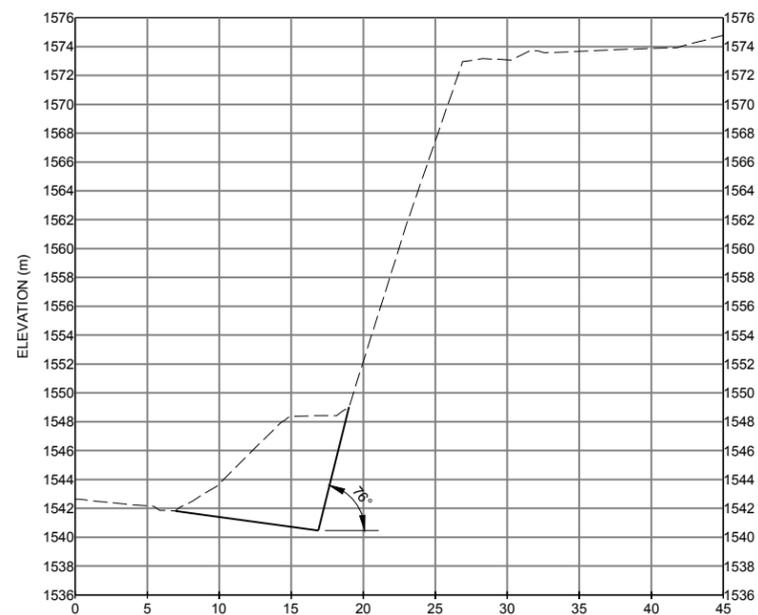
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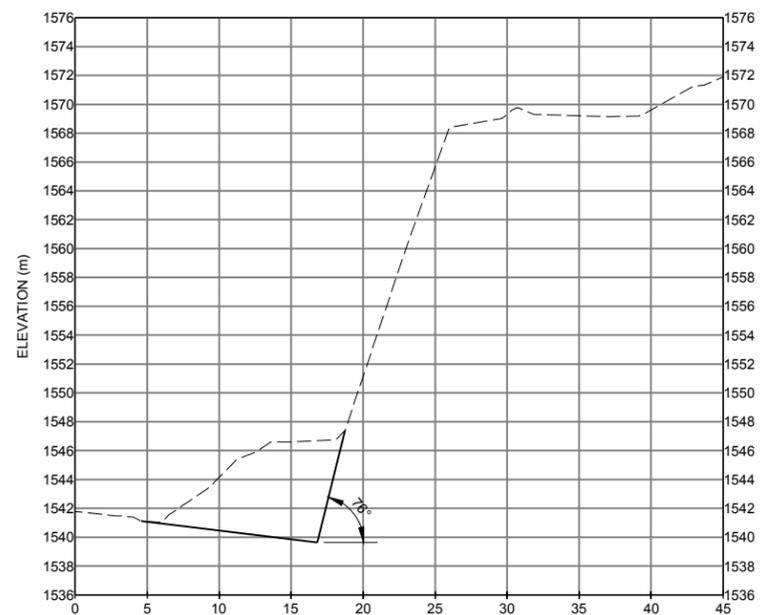
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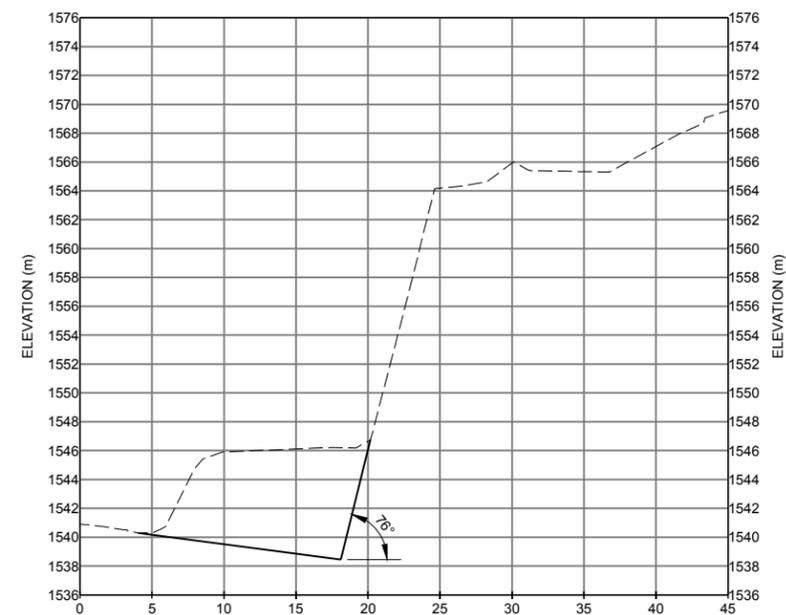
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STA. 88+860



STA. 88+880



STA. 88+900



Revision/Revision	Date/Date	Description/Description	DES	DWN	CHK
0	2018-02-01	ISSUED FOR TENDER	JR	GB	JR

Project Title/Titre du projet
**YOHO NATIONAL PARK
 BRITISH COLUMBIA**

**KM 88.5 TO KM 89.2
 TRANS-CANADA HIGHWAY
 SLOPE REPROFILING**

Designed by/Concept par
J. RICHMOND

Drawn by/Dessine par
J. DHALIWAL

Seal/Joint

Client/client
PARKS CANADA AGENCY

Drawing Title/Titre du dessin

**SHERBROOKE CREEK
 ROCK SLOPE CROSS SECTIONS
 STA. 88+860 TO STA. 88+960**

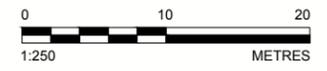
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Sheet/Feuille
012

Revision no./La Révision no.
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Revision/Revision	Date/Date	Description/Description	DES	DWN	CHK
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Project Title/Titre du projet
**YOHO NATIONAL PARK
 BRITISH COLUMBIA**

**KM 88.5 TO KM 89.2
 TRANS-CANADA HIGHWAY
 SLOPE REPROFILING**

Designed by/Concept par
J. RICHMOND

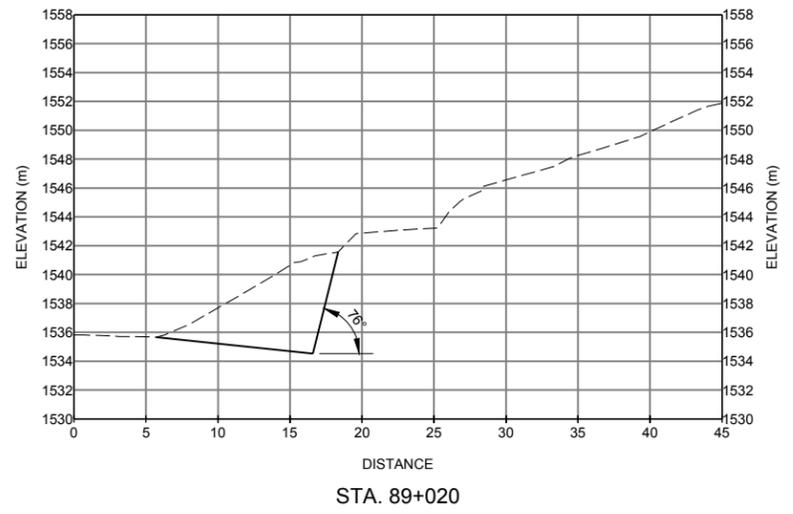
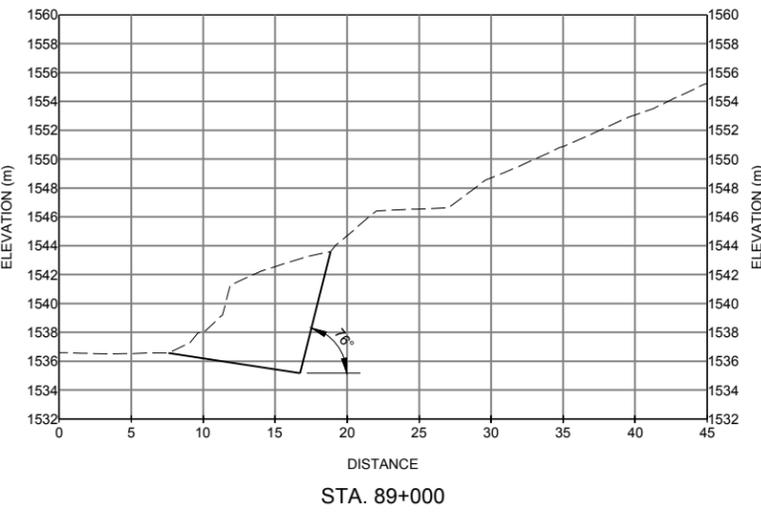
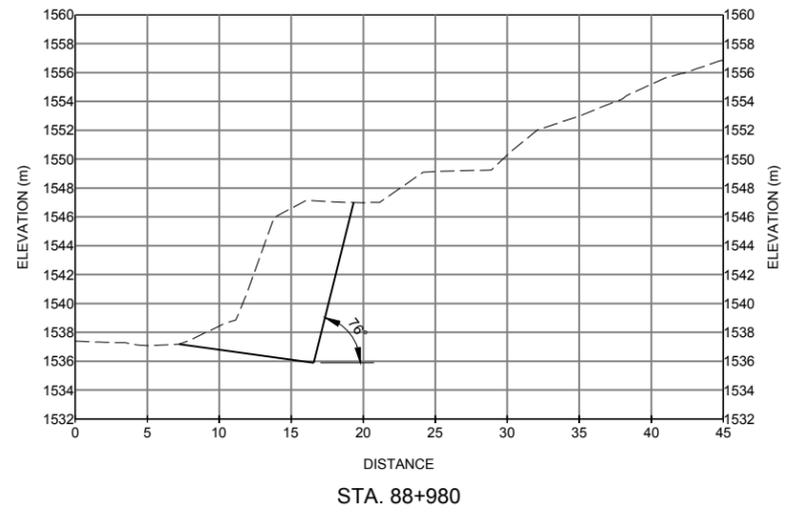
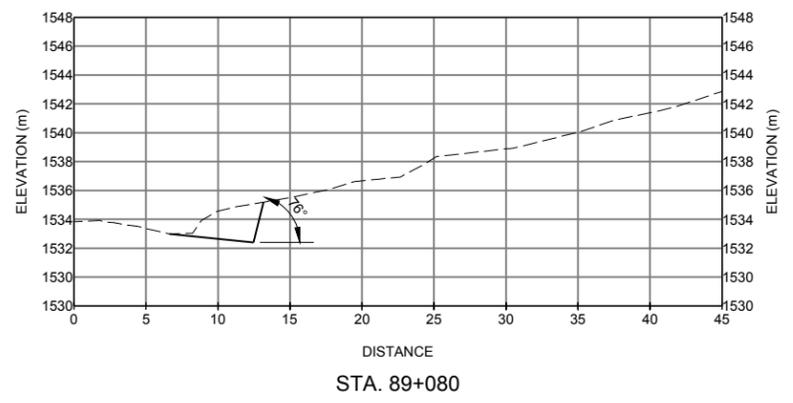
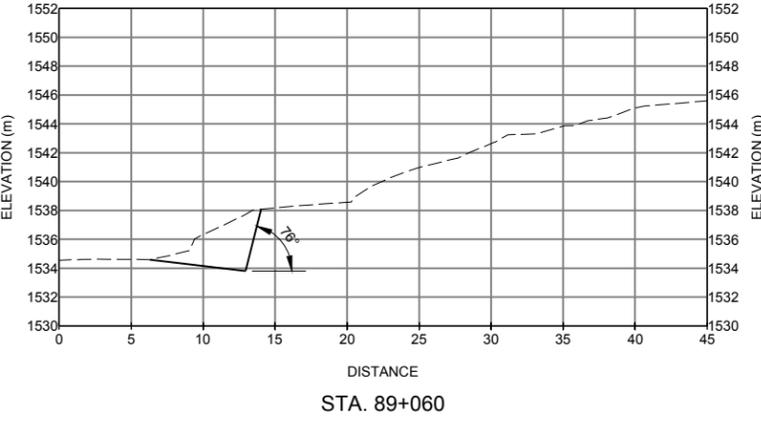
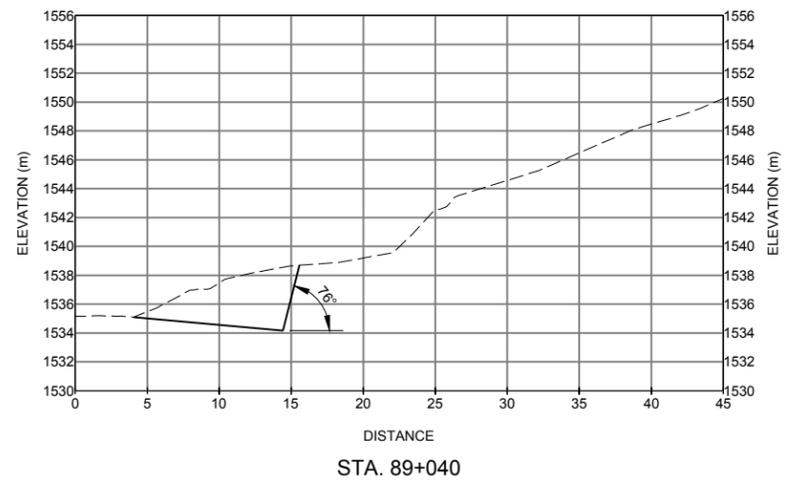
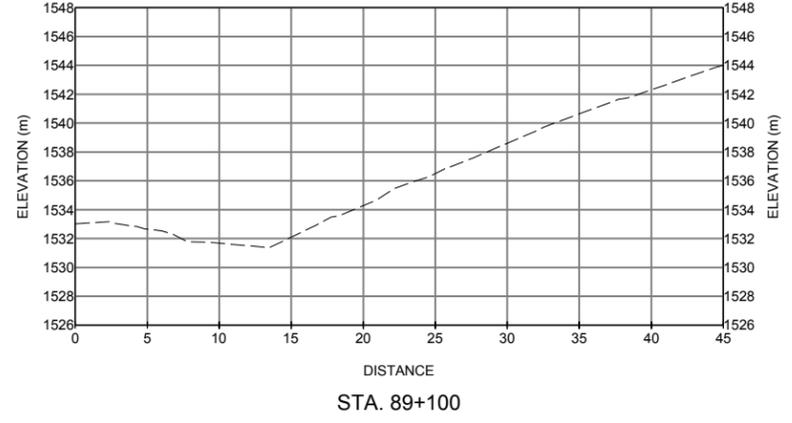
Drawn by/Dessine par
J. DHALIWAL

Seal/Joint

Client/client
PARKS CANADA AGENCY

Drawing Title/Titre du dessin
**SHERBROOKE CREEK
 ROCK SLOPE CROSS SECTIONS
 STA. 88+980 TO STA. 89+100**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
569.01	013	0





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HALF SIZE

NOT FOR CONSTRUCTION

1	2018.01.29	ISSUED FOR TENDER	N.G.	S.A.
No.	Date/Date	Description/Description	Drawn by Dessiné par	Approved Approuvé

Revision / Revision				

Consultant's Stamp Sceau de l'expert-conseil	Eng. Stamp Sceau de l'ingénieur
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Client/Client
 Parks Canada Agency
 L'Agence Parcs Canada

Consultant's Name
Nom de l'expert-conseil
McElhanney

Project title/Titre du projet
 KM 88.5 TO 89.2
 TRANS-CANADA HIGHWAY No.1
 SLOPE REPROFILING
 YOHO NATIONAL PARK

Drawing title/Titre du dessin
 MT. STEPHEN AVALANCHE BERM
 REGRADING PLAN

Surveyed by/Arpenté par	Drawn by/Dessiné par	Date/Date
	N.G.	2018.01.29
Designed by/Concept par	Reviewed by/Revisé par	Scale/Echelle
N.G.	S.A.	1:1000

Parks Canada Project Manager/Administrateur de Projets Parcs Canada

Client Acceptance/Acception du client	Approved by/Approuvé par

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