

NOTES:
1. SMALL MAGNITUDE GEOHAZARDS EXIST (E.G. LOCALIZED ROCKFALL) THAT WERE TOO SMALL TO MAP
2. ARROWED LANDSLIDE PATHS SHOW GENERAL SLIDE TRAJECTORIES. THEY DO NOT SHOW HAZARD EXTENTS. PATH ARROWS EXTEND INTO THE GENERAL RUNOUT ZONE BUT DO NOT REPRESENT THE MAXIMUM RUNOUT LIMIT.
3. LANDSLIDE HAZARD EXTENTS ARE SHOWN BY SHADED POLYGONS. THEY SHOW EXISTING LANDSLIDE HAZARD INITIATION ZONE AND RUNOUT AREAS. POLYGON BOUNDARIES SHOULD BE REGARDED AS TRANSITIONS, NOT SHARP BOUNDARIES.
4. THIS MAP IS A SNAPSHOT IN TIME. CHANGES IN LAND USE (E.G. DEVELOPMENT, RIVER MIGRATION) MAY WARRANT RE-DRAWING OF CERTAIN AREAS.

REVISION	DATE	REVISION NOTES	DRAWN	CHECK	APPR.

1:50000

NOV 2013

JVC, GLT

AB

PROFESSIONAL SEAL:

BGC

BGC ENGINEERING INC.

AN APPLIED EARTH SCIENCES COMPANY

CLIENT:

TRANS MOUNTAIN

PROJECT:

TRANS-MOUNTAIN EXPANSION PROJECT

TITLE:

TERRAIN MAP
MAP NUMBER 35 OF 54

PROJECT No.:

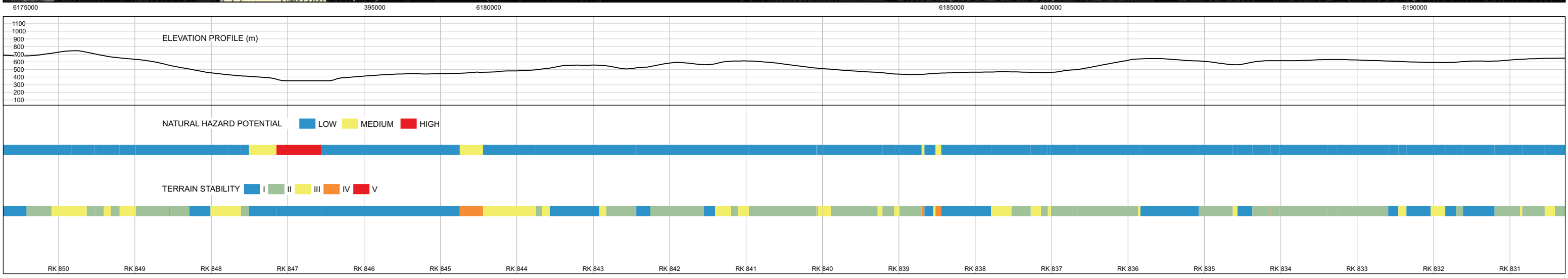
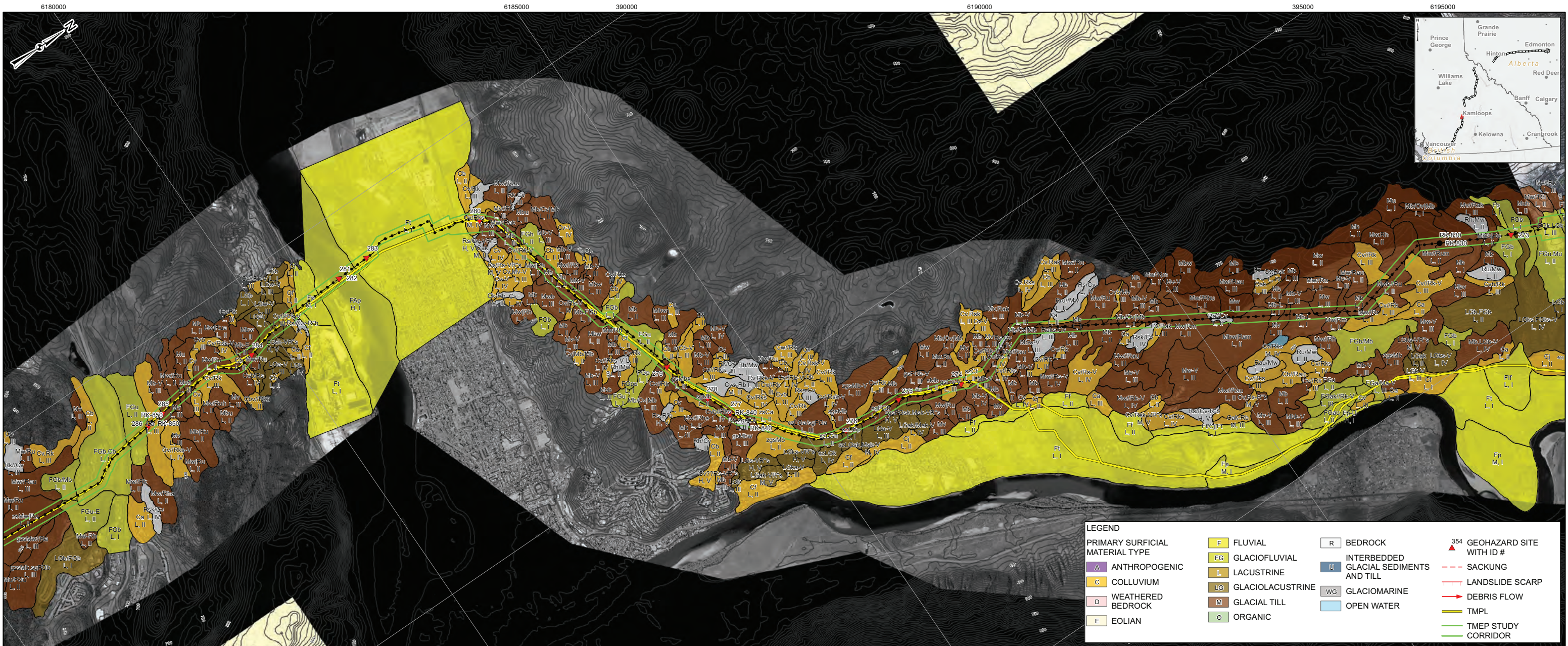
0095150

DWG No.:

35

REV:

DWG TO BE READ WITH BGC REPORT TITLED "TRANS-MOUNTAIN EXPANSION PROJECT" DATED NOVEMBER 2013



NOTES:
1. SMALL MAGNITUDE GEOHAZARDS EXIST (E.G. LOCALIZED ROCKFALL) THAT WERE TOO SMALL TO MAP
2. ARROWED LANDSLIDE PATHS SHOW GENERAL SLIDE TRAJECTORIES. THEY DO NOT SHOW HAZARD EXTENTS. PATH ARROWS EXTEND INTO THE GENERAL RUNOUT ZONE BUT DO NOT REPRESENT THE MAXIMUM RUNOUT LIMIT.
3. LANDSLIDE HAZARD EXTENTS ARE SHOWN BY SHADED POLYGONS. THEY SHOW EXISTING LANDSLIDE HAZARD INITIATION ZONE AND RUNOUT AREAS. POLYGON BOUNDARIES SHOULD BE REGARDED AS TRANSITIONS, NOT SHARP BOUNDARIES.
4. THIS MAP IS A SNAPSHOT IN TIME. CHANGES IN LAND USE (E.G. DEVELOPMENT, RIVER MIGRATION) MAY WARRANT RE-DRAWING OF CERTAIN AREAS.

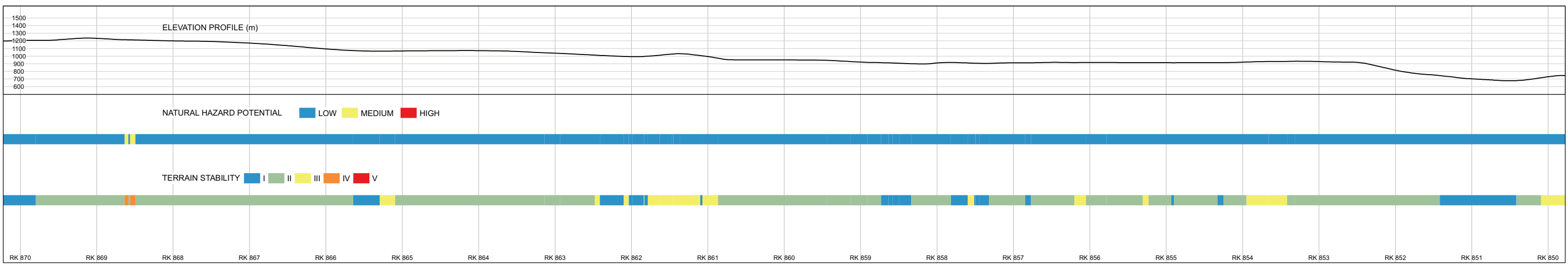
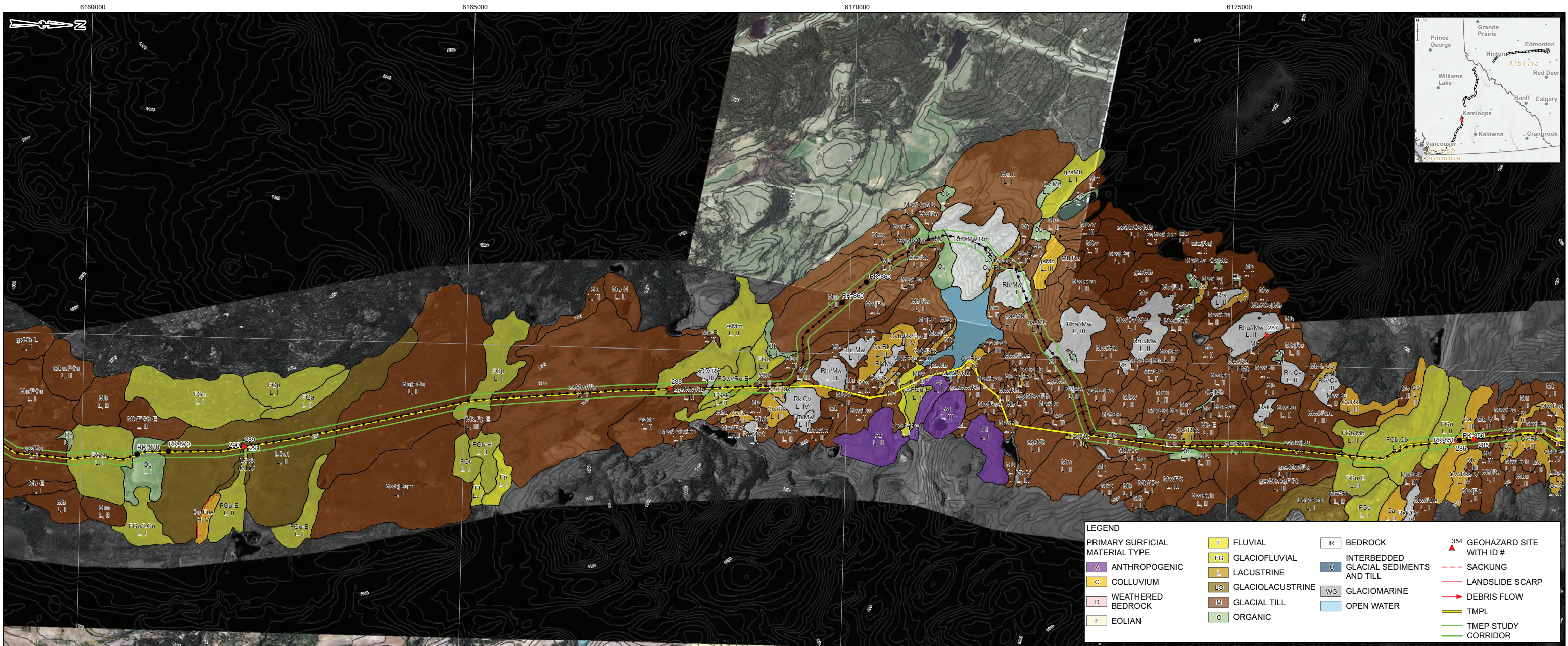
ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF BGC ENGINEERING INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THIS DOCUMENT IS THE PROPERTY OF BGC ENGINEERING INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

REV.	DATE	REVISION NOTES	DRAWN	CHECK	APPR.

SCALE: 1:50000
DATE: NOV 2013
DRAWN: JVC, GLT
DESIGNED: AB
CHECKED:
APPROVED:

PROFESSIONAL SEAL:
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

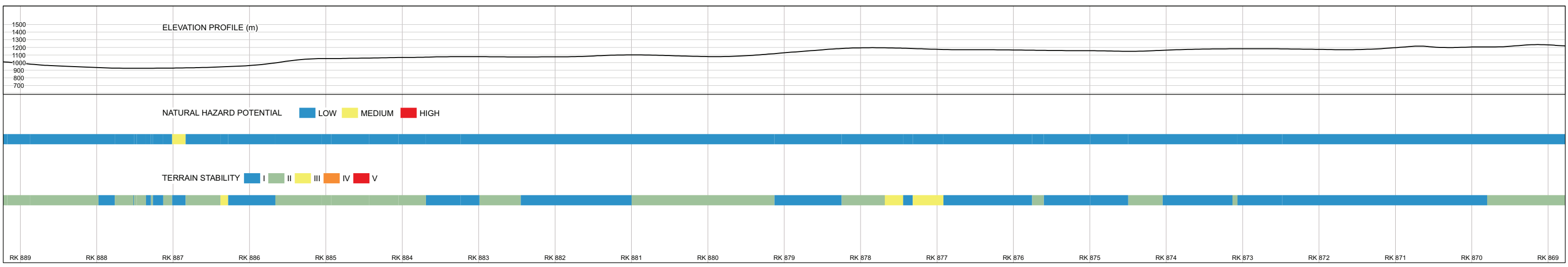
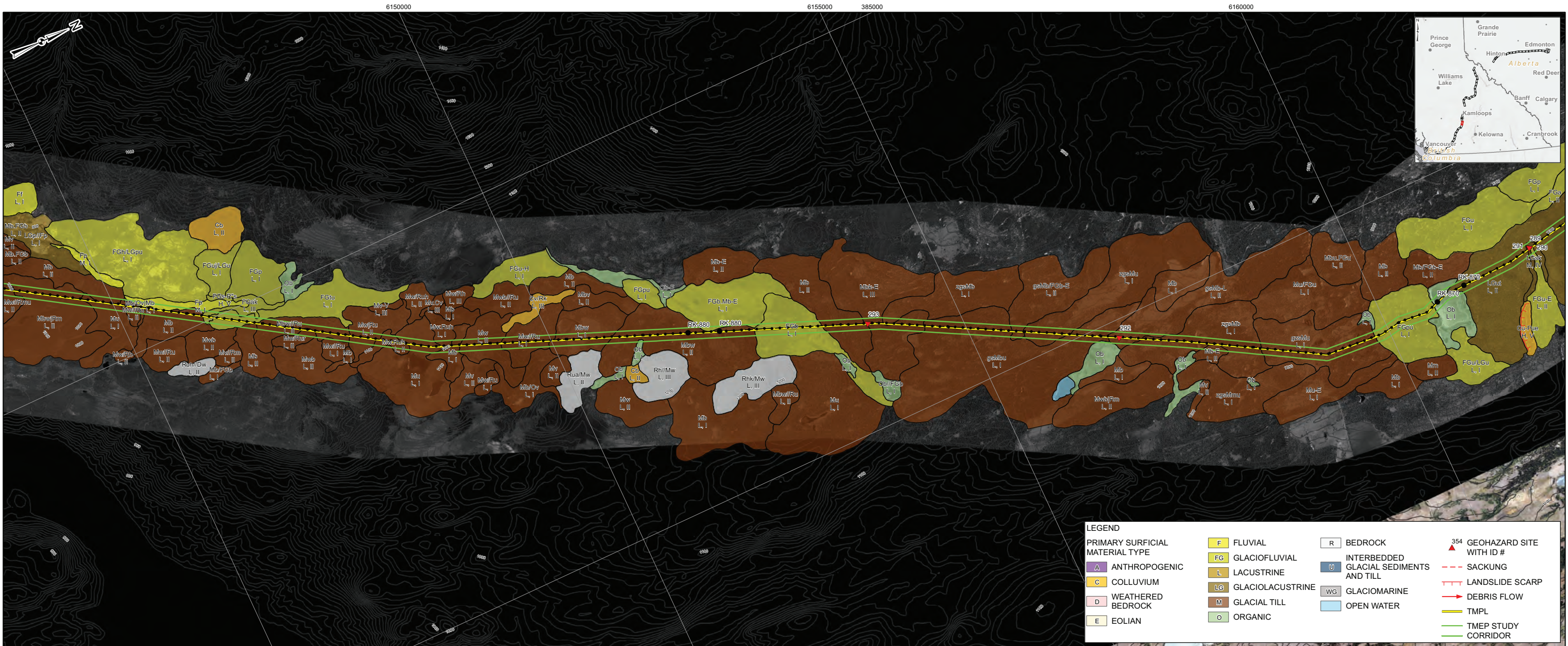
PROJECT: TRANS-MOUNTAIN EXPANSION PROJECT
TITLE: TERRAIN MAP
MAP NUMBER 36 OF 54
PROJECT NO.: 0095150
DWG NO.: 36
REV:



NOTES:
1. SMALL MAGNITUDE GEOHAZARDS EXIST (E.G. LOCALIZED ROCKFALL) THAT WERE TOO SMALL TO MAP
2. ARROWED LANDSLIDE PATHS SHOW GENERAL SLIDE TRAJECTORIES. THEY DO NOT SHOW HAZARD EXTENTS. PATH ARROWS EXTEND INTO THE GENERAL RUNOUT ZONE BUT DO NOT REPRESENT THE MAXIMUM RUNOUT LIMIT.
3. LANDSLIDE HAZARD EXTENTS ARE SHOWN BY SHADED POLYGONS. THEY SHOW EXISTING LANDSLIDE HAZARD INITIATION ZONE AND RUNOUT AREAS. POLYGON BOUNDARIES SHOULD BE REGARDED AS TRANSITIONS, NOT SHARP BOUNDARIES.
4. THIS MAP IS A SNAPSHOT IN TIME. CHANGES IN LAND USE (E.G. DEVELOPMENT, RIVER MIGRATION) MAY WARRANT RE-DRAWING OF CERTAIN AREAS.

PROFESSIONAL SEAL:		SCALE: 1:50000	
DATE:	NOV 2013	CLIENT:	TRANS-MOUNTAIN EXPANSION PROJECT
DRAWN:	JVC, GLT	TITLE:	TERRAIN MAP MAP NUMBER 37 OF 54
DESIGNED:	AB	PROJECT NO.:	0095150
CHECKED:		DWG NO.:	37
APPROVED:		REV.:	

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY



NOTES:
1. SMALL MAGNITUDE GEOHAZARDS EXIST (E.G. LOCALIZED ROCKFALL) THAT WERE TOO SMALL TO MAP
2. ARROWED LANDSLIDE PATHS SHOW GENERAL SLIDE TRAJECTORIES. THEY DO NOT SHOW HAZARD EXTENTS. PATH ARROWS EXTEND INTO THE GENERAL RUNOUT ZONE BUT DO NOT REPRESENT THE MAXIMUM RUNOUT LIMIT.
3. LANDSLIDE HAZARD EXTENTS ARE SHOWN BY SHADED POLYGONS. THEY SHOW EXISTING LANDSLIDE HAZARD INITIATION ZONE AND RUNOUT AREAS. POLYGON BOUNDARIES SHOULD BE REGARDED AS TRANSITIONS, NOT SHARP BOUNDARIES.
4. THIS MAP IS A SNAPSHOT IN TIME. CHANGES IN LAND USE (E.G. DEVELOPMENT, RIVER MIGRATION) MAY WARRANT RE-DRAWING OF CERTAIN AREAS.

REVISION NOTES			
REV.	DATE	DESCRIPTION	APPROVED

BGC

BGC ENGINEERING INC.

AN APPLIED EARTH SCIENCES COMPANY

CLIENT:

PROJECT:

TRANS-MOUNTAIN EXPANSION PROJECT

TITLE:

TERRAIN MAP
MAP NUMBER 38 OF 54

PROJECT NO.:

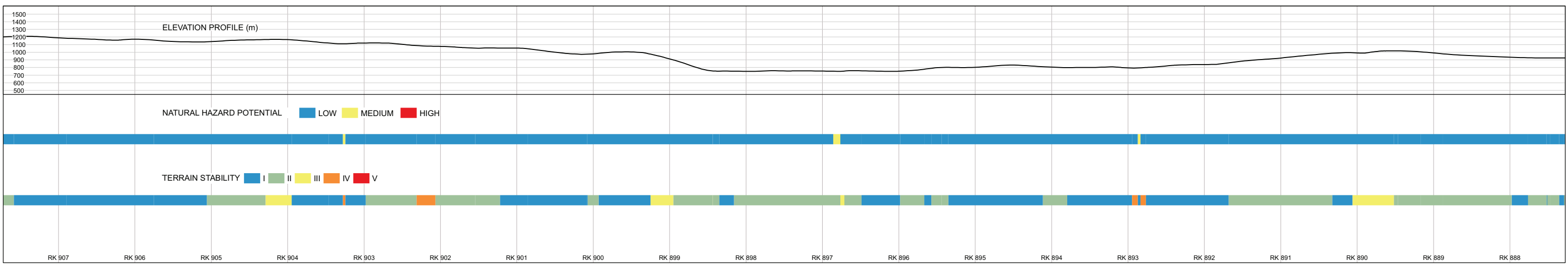
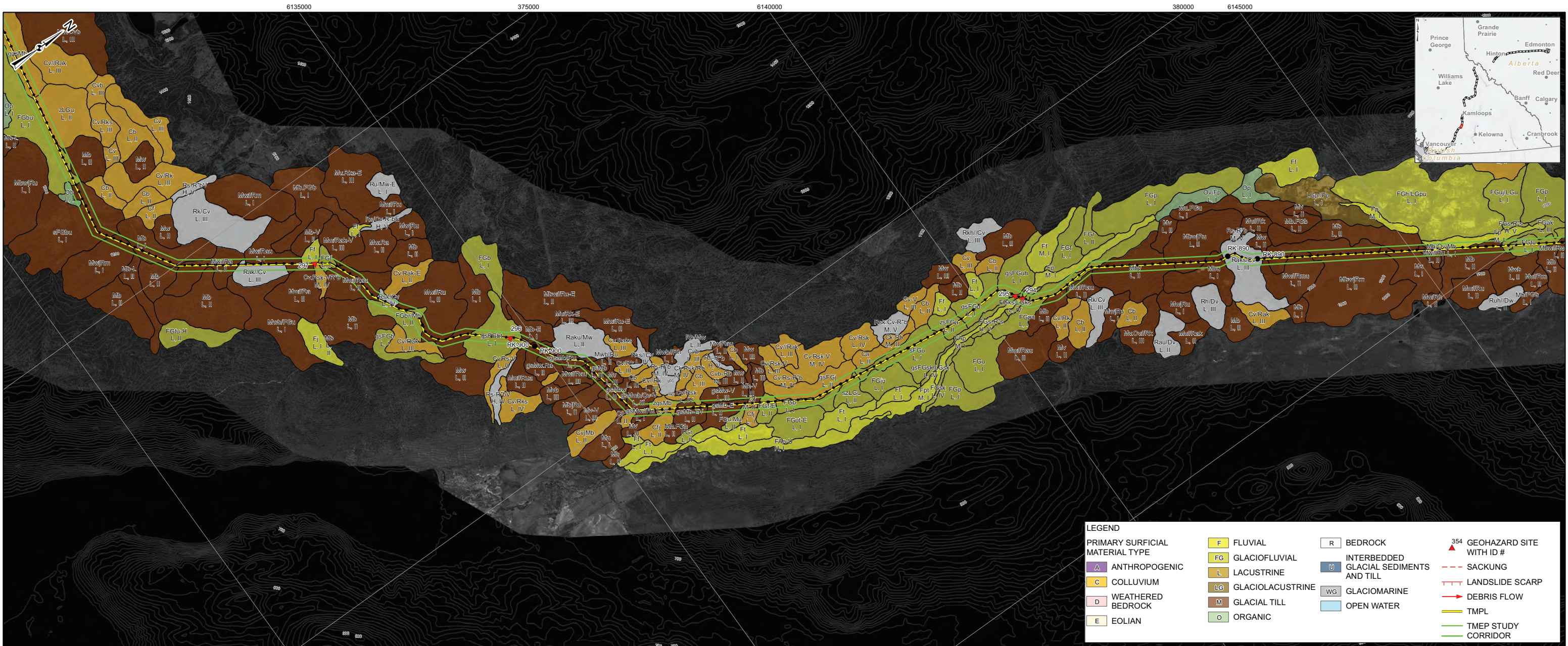
0095150

DWG NO.:

38

REV.:

DWG TO BE READ WITH BGC REPORT TITLED "TRANS-MOUNTAIN EXPANSION PROJECT" DATED NOVEMBER 2013



NOTES:
1. SMALL MAGNITUDE GEOHAZARDS EXIST (E.G. LOCALIZED ROCKFALL) THAT WERE TOO SMALL TO MAP
2. ARROWED LANDSLIDE PATHS SHOW GENERAL SLIDE TRAJECTORIES. THEY DO NOT SHOW HAZARD EXTENTS. PATH ARROWS EXTEND INTO THE GENERAL RUNOUT ZONE BUT DO NOT REPRESENT THE MAXIMUM RUNOUT LIMIT.
3. LANDSLIDE HAZARD EXTENTS ARE SHOWN BY SHADED POLYGONS. THEY SHOW EXISTING LANDSLIDE HAZARD INITIATION ZONE AND RUNOUT AREAS. POLYGON BOUNDARIES SHOULD BE REGARDED AS TRANSITIONS, NOT SHARP BOUNDARIES.
4. THIS MAP IS A SNAPSHOT IN TIME. CHANGES IN LAND USE (E.G. DEVELOPMENT, RIVER MIGRATION) MAY WARRANT RE-DRAWING OF CERTAIN AREAS.

SCALE: 1:50000

DATE: NOV 2013

DRAWN: JVC, GLT

DESIGNED: AB

CHECKED:

APPROVED:

PROFESSIONAL SEAL:

CLIENT: TRANS MOUNTAIN

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

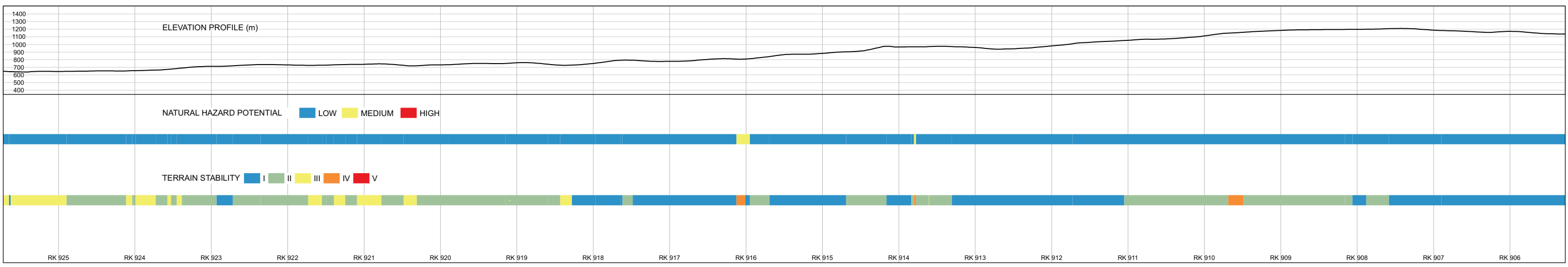
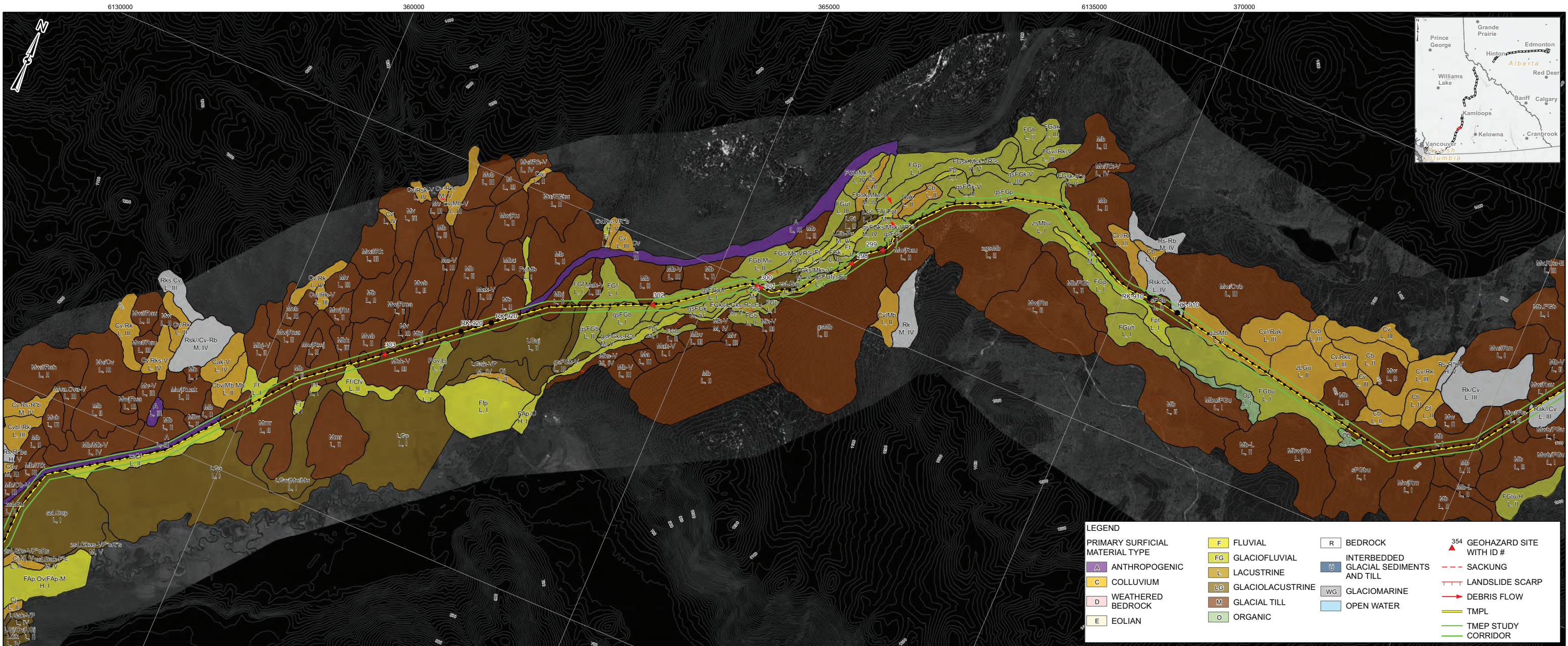
PROJECT: TRANS-MOUNTAIN EXPANSION PROJECT

TITLE: TERRAIN MAP
MAP NUMBER 39 OF 54

PROJECT No.: 0095150

DWG No.: 39

REV:



NOTES:
1. SMALL MAGNITUDE GEOHAZARDS EXIST (E.G. LOCALIZED ROCKFALL) THAT WERE TOO SMALL TO MAP
2. ARROWED LANDSLIDE PATHS SHOW GENERAL SLIDE TRAJECTORIES. THEY DO NOT SHOW HAZARD EXTENTS. PATH ARROWS EXTEND INTO THE GENERAL RUNOUT ZONE BUT DO NOT REPRESENT THE MAXIMUM RUNOUT LIMIT.
3. LANDSLIDE HAZARD EXTENTS ARE SHOWN BY SHADED POLYGONS. THEY SHOW EXISTING LANDSLIDE HAZARD INITIATION ZONE AND RUNOUT AREAS. POLYGON BOUNDARIES SHOULD BE REGARDED AS TRANSITIONS, NOT SHARP BOUNDARIES.
4. THIS MAP IS A SNAPSHOT IN TIME. CHANGES IN LAND USE (E.G. DEVELOPMENT, RIVER MIGRATION) MAY WARRANT RE-DRAWING OF CERTAIN AREAS.

ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF BGC ENGINEERING INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THIS REPORT IS ISSUED IN ELECTRONIC FORM AND THE USER AGREES TO HOLD BGC ENGINEERING INC. HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS REPORT OR THE INFORMATION CONTAINED HEREIN.

REV.	DATE	REVISION NOTES	DRAWN	CHECK	APPR.

SCALE: 1:50000
DATE: NOV 2013
DRAWN: JVC, GLT
DESIGNED: AB
CHECKED:
APPROVED:
PROFESSIONAL SEAL:
CLIENT: TRANS MOUNTAIN

PROJECT: TRANS-MOUNTAIN EXPANSION PROJECT
TITLE: TERRAIN MAP
MAP NUMBER 40 OF 54
PROJECT NO.: 0095150
DWG NO.: 40
REV:
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY