

July 22, 2022

Ali Shaikh
Technical Advisor
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU,
X0B 1J0

Sent via Email: ali.shaikh@nwb-oen.ca

Re: Water License 2AM-DOH1335 – Notice of Modification – Expansion of Airstrip at Doris

Dear Mr. Shaikh,

This letter represents Agnico Eagle Mines (**Agnico**) written notification to the Nunavut Water Board (**NWB**) regarding the planned expansion of the airstrip in the Doris mine area. This notification is being provided to the NWB prior to commencement of work, as required under the Type A Water License (2AM-DOH1335). Agnico can confirm the following conditions are met, under 2AM-DOH1335 Part G Item 1:

- a) The Licensee has notified the Board in writing of such proposed modifications at least sixty (60) days prior to beginning the Modifications;
- b) Such Modifications do not place the Licensee in contravention of the License or the Act; and
- c) Such Modifications are consistent with the applicable terms and conditions of the NIRB Project Certificate No. 003 and Project Certificate No. 009.

Agnico plans to expand the airstrip by approximately 300 m to improve safety and usability of the airstrip. The expansion will begin at the current airstrip termination and extend 300 m to the north (Attachment 1). The runway expansion will allow Agnico to add more fuel to the aircraft and carry an increased number of passengers over longer distances. Flights to Hope Bay from Edmonton will no longer have to refuel in Yellowknife.

As part of the Doris airstrip expansion design, the design engineer (SRK) completed review of terrain, surficial geomorphology, surface water pathways, and ground ice features using available historical and recent air photos, elevation models, and annual geotechnical inspection field photographs. The reviewed information was considered in the design, in particular the potential for the change in surface hydrology and permafrost due to the expansion alignment.

Ground ice features in the form of ice-wedge polygons were mapped along the existing airstrip alignment, with few indications of similar features along the expansion. Nevertheless, the design considers ice-rich permafrost in the foundation. The design is based on direct fill placement using a minimum fill thickness of 1 m to limit permafrost disturbance. A similar thermal design approach has been used for existing infrastructure at the Doris Mine. The expansion alignment is also orientated parallel to the anticipated direction of surface water flow to minimize modification of the existing flow pathways and to limit ponding of water near the embankment. The engineer of record for surface infrastructure will continue to annually inspect the airstrip. At



this time, there is no additional post-construction geotechnical monitoring anticipated for the airstrip expansion.

Construction is proposed to start in October 2022. Stamped engineering drawings for the airstrip expansion are provided in Attachment 1.

Frequent inspections of the construction site will be used to determine if there is the need for sediment and erosion control measures, such as silt fences, straw wattles, and placement of jute fabric to address sediment and erosion. If required, the control measures would be implemented to address sediment and erosion resulting from construction. The design is also based on direct fill placement to limit the need for excavation that could cause permafrost disturbance and the need for additional sediment and erosion control measures.

Should you have any questions please feel free to contact me at nancy.harvey@agnicoeagle.com

Sincerely,

A handwritten signature in black ink, appearing to be "Guy Dufour".

Guy Dufour on behalf of
Nancy Duquet Harvey

Environmental Superintendent - Agnico Eagle Mines Limited - Hope Bay Mine

Cc:
Licencing (NWB)
Jon Roesch (KIA)

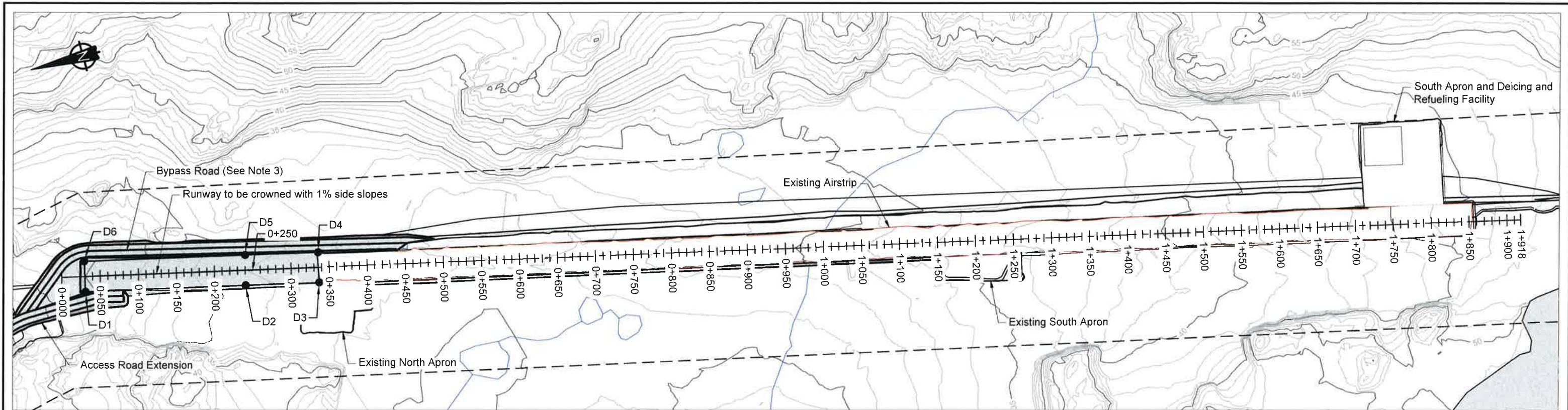
Attachments
Engineering Drawings for the Doris North 1000ft Airstrip Expansion

Engineering Drawings for the Doris North 1000ft, Airstrip Expansion Hope Bay Project, Nunavut, Canada

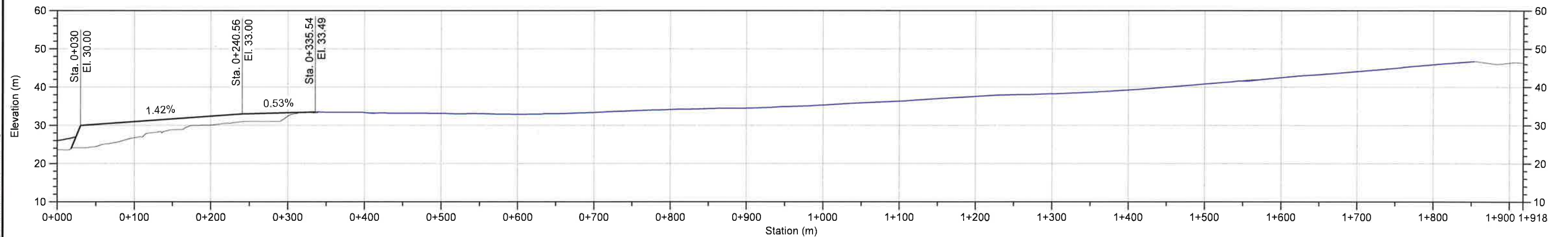
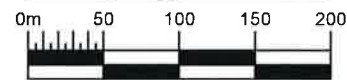
Active Drawing Status

Drawing Number	Drawing Title	Issue	Date	Revision
DN-1Kft-AE-01	General Arrangement	Issued for Permit	2022-06-28	A
DN-1Kft-AE-02	Airstrip Expansion Plan and Profile	Issued for Permit	2022-06-28	A
DN-1Kft-AE-03	Airstrip Expansion Cross Sections	Issued for Permit	2022-06-28	A
DN-1Kft-AE-04	Airstrip Expansion 1000ft Obstacle Limitation Surfaces	Issued for Permit	2022-06-28	A
DN-1Kft-AE-05	Bypass Road Plan and Profile	Issued for Permit	2022-06-28	A
DN-1Kft-AE-06	Access Road Extension Plan and Profile	Issued for Permit	2022-06-28	A

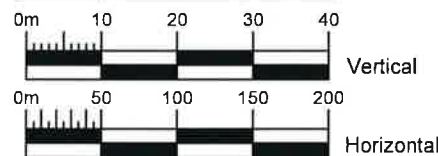




Airstrip Expansion Plan



Airstrip Centerline Profile



LEGEND

- Stake Out Point
- Contours
- Lakes, Ponds, or Permanent Water Bodies
- Lease Boundary
- Existing Airstrip
- Proposed Airstrip Expansion

NOTES

- Contours are shown at 1.0 m intervals.
- All units are in meters unless otherwise specified.
- Bypass roadway will be required to be extended to go around the expanded airstrip. (see drawings DN-1Kft-AE-04 and 05)

REFERENCES

Coordinate system is UTM Zone 13, NAD83.

AIRSTRIP EXPANSION CENTERLINE GRADES

STA+	Northing	Easting	Elev. (m)
0+050	7562731.55	433167.73	30.28
0+100	7562682.78	433156.71	31.00
0+150	7562634.01	433145.70	31.71
0+200	7562585.24	433134.68	32.42
0+250	7562536.46	433123.66	33.04
0+300	7562487.69	433112.65	33.31

STAKEOUT POINTS

ID	Northing	Easting	Elev. (m)
D1	7562755.46	433152.62	29.80
D2	7562550.62	433106.36	32.79
D3	7562456.69	433085.51	33.35
D4	7562448.10	433123.96	33.30
D5	7562541.26	433145.25	33.00
D6	7562747.07	433191.73	29.59



DESIGN: JBK/RW/CS
CHECKED: AEM
APPROVED: JBK
DATE: 2022-06-28
FILE NAME: CAPR001862 - 1000ft Exp PP.dwg



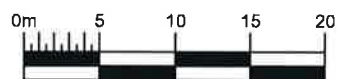
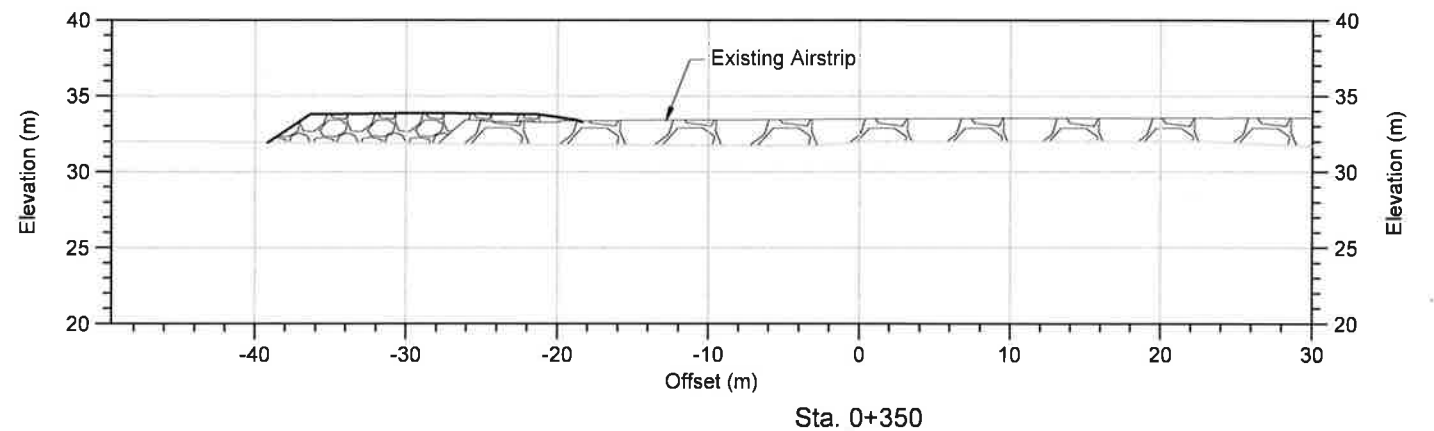
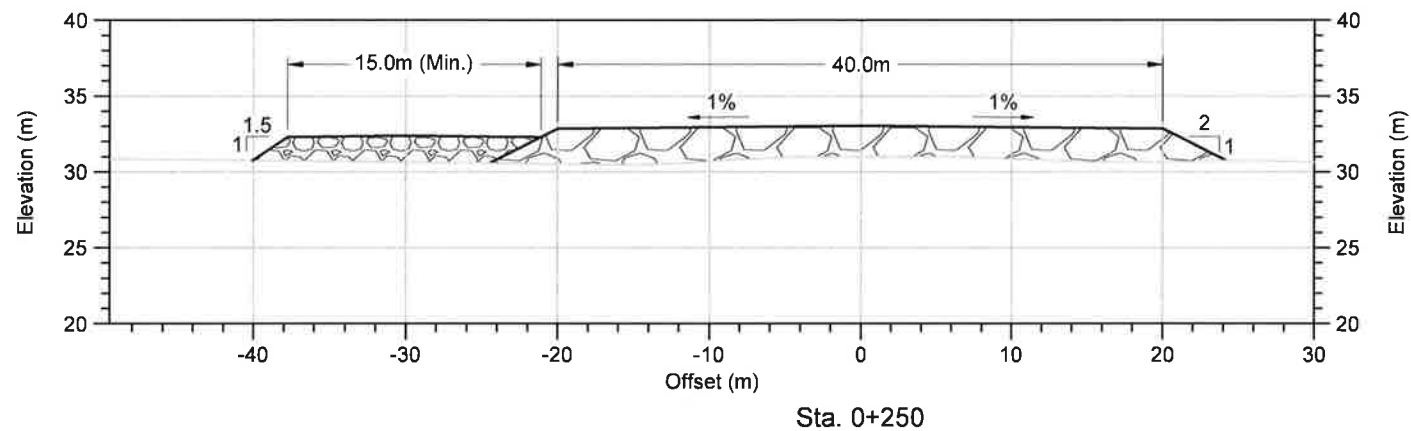
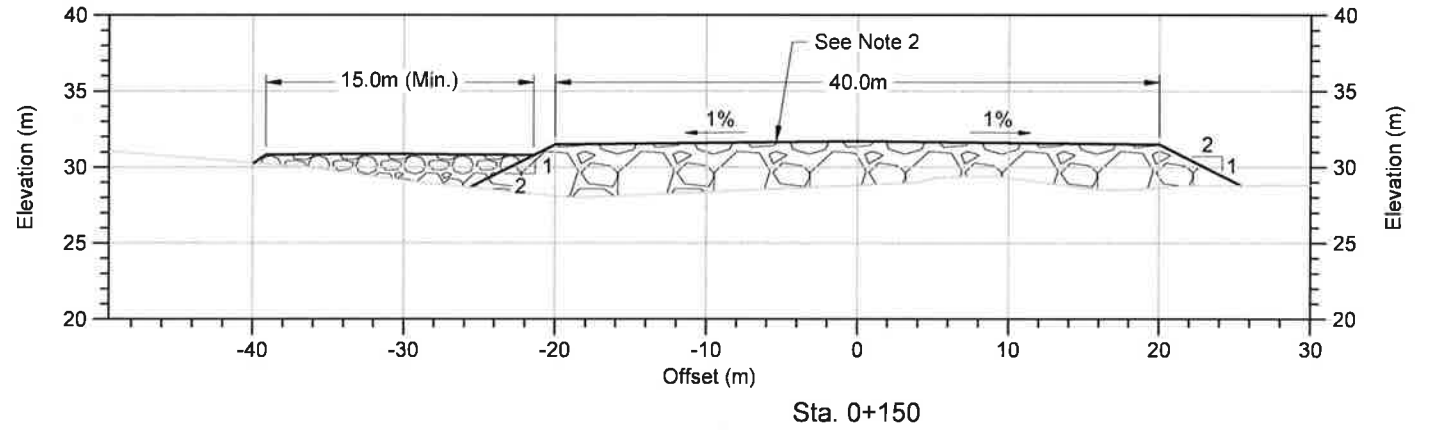
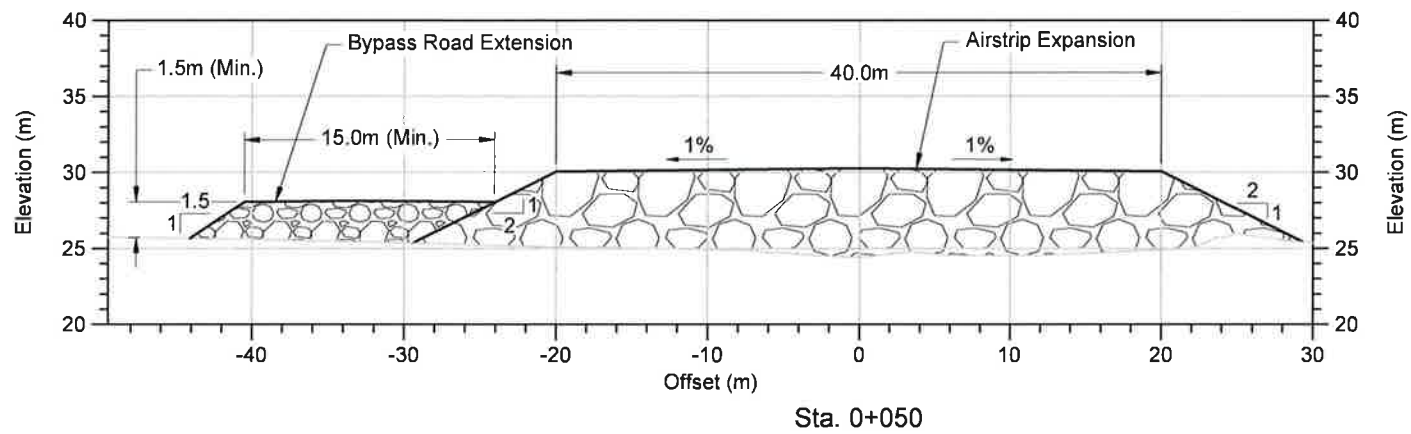
Doris North 1000ft, Airstrip Expansion
DRAWING TITLE: Airstrip Expansion Plan and Profile
DRAWING NO: DN-1Kft-AE-02
REVISION NO: A

LEGEND

- Design Surface
— Existing Ground
▨ Rockfill

NOTES

1. All units are in meters unless otherwise specified.
2. Top surface of the airstrip should be expected to required up to 0.15m thickness of 3/4" minus crush material (19mm minus) may be required to create a smooth and graded top running surface.



srk consulting



AGNICO EAGLE
Hope Bay Project

Doris North 1000ft, Airstrip Expansion

DRAWING TITLE:
Airstrip Expansion
Cross Sections

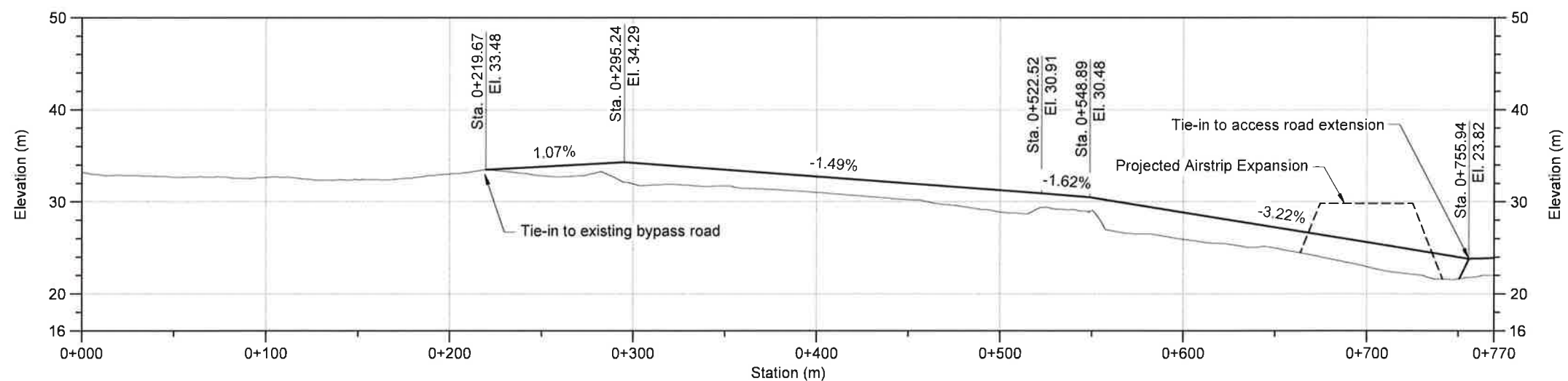
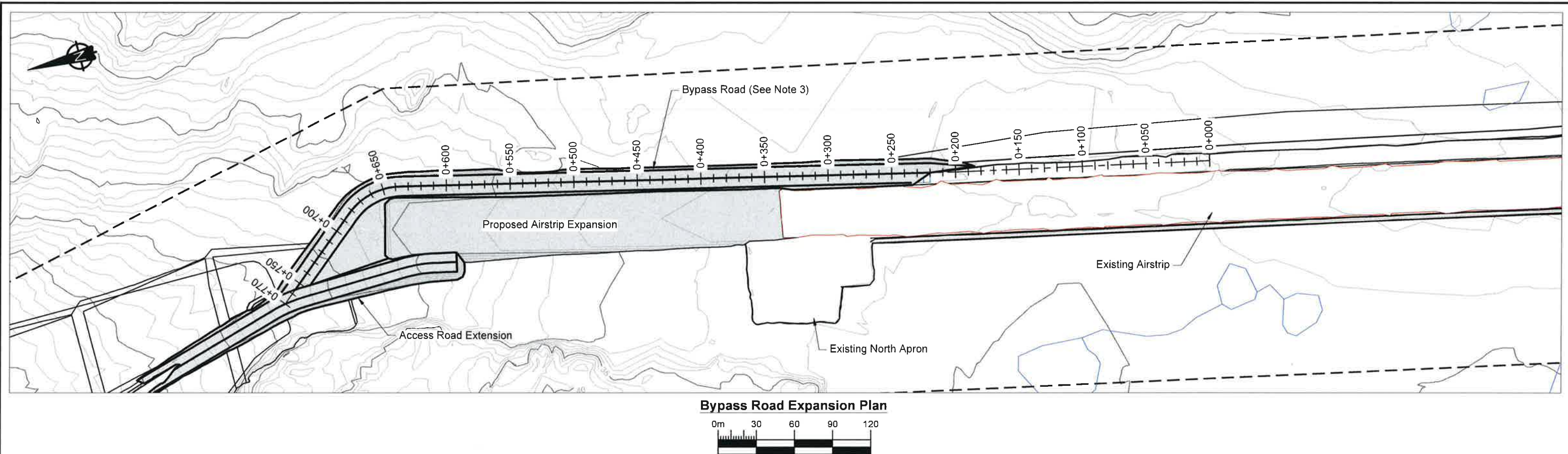
DRAWING NO.
DN-1Kft-AE-03

REVISION NO.
A

DESIGN: JBK/RW/CS DRAWN: TAH/SL/JDS REVIEWED: CS
CHECKED: AEM APPROVED: JBK DATE: 2022-06-28

FILE NAME: CAPR001862 - 1000ft Exp PP.dwg

SRK JOB NO.: CAPR001862



VISION NO.
A

