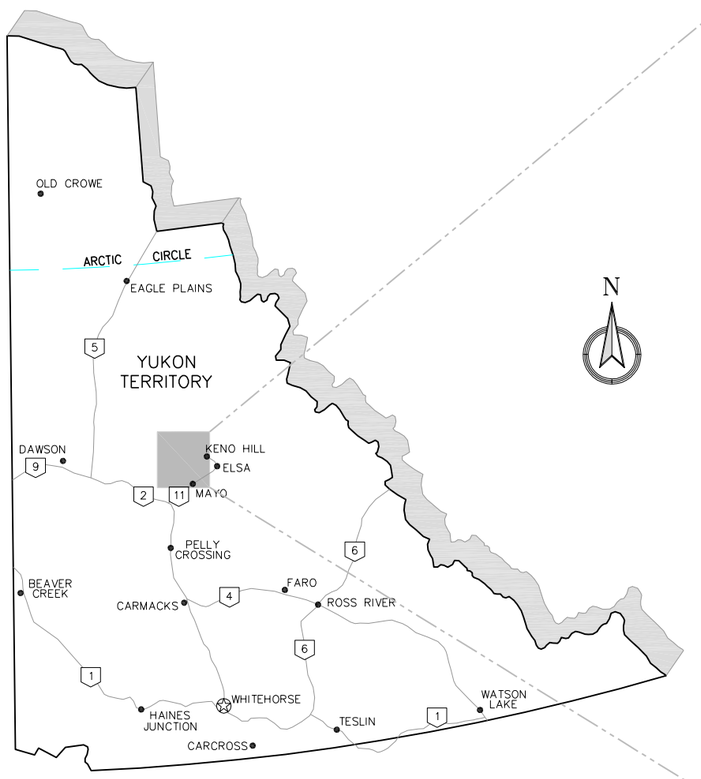
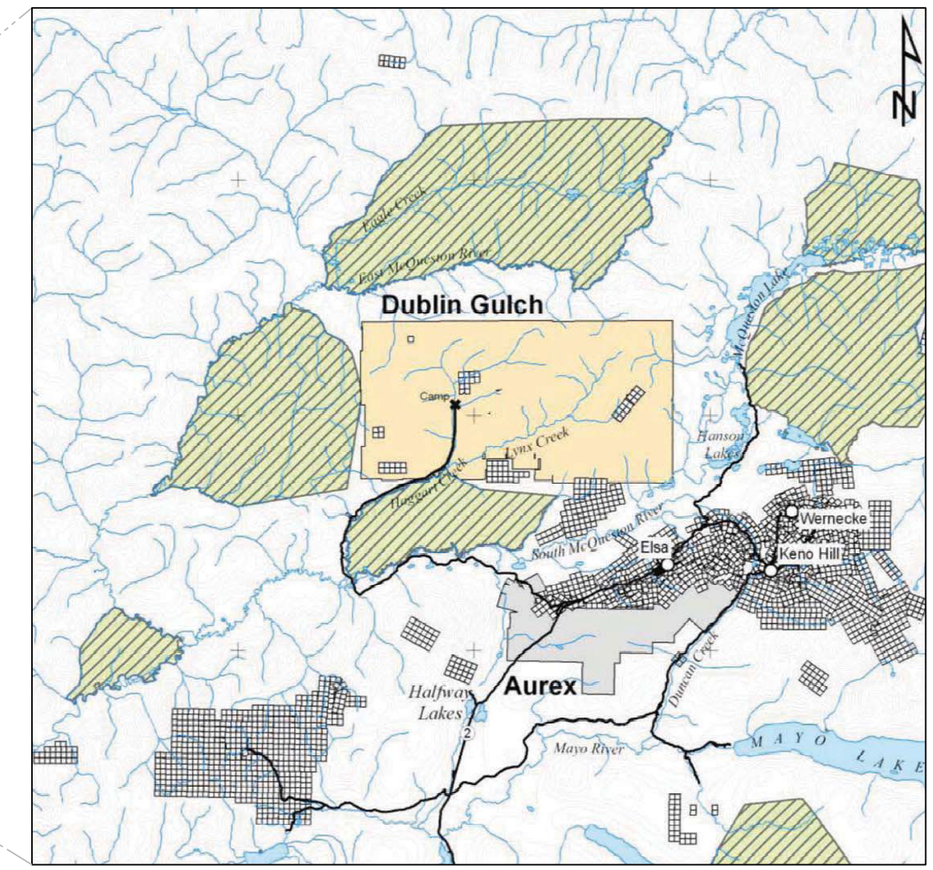
VICTORIA GOLD CORP. - EAGLE GOLD PROJECT
HEAP LEACH FACILITY - FEASIBILITY DESIGN



REGIONAL LOCATION MAP
N.T.S.



PROJECT LOCATION MAP
N.T.S.

DRAWING INDEX

FIG #	FIGURE NAME
01	TITLE SHEET & PROJECT LOCATION MAP
02	GENERAL FACILITIES ARRANGEMENT
03	HEAP LEACH PAD GRADING & TEMPORARY DIVERSION CHANNELS
04	HEAP LEACH PAD & TEMPORARY DIVERSION CHANNEL SECTIONS
05	HEAP LEACH PAD & TEMPORARY DIVERSION CHANNEL DETAILS
06	UNDERDRAIN PIPES LAYOUT
07	HEAP CONFINING EMBANKMENT PLAN & SECTION
08	PLS WELL & PUMP DETAILS
09	DIVERSION CHANNEL EMBANKMENT PLAN & SECTION
10	DRAIN PIPE LAYOUT
11	DRAIN PIPE DETAILS
12	DRAIN PIPE DETAILS
13	SPILLWAY PLAN & PROFILE
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15	EVENT POND LAYOUTS
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17	DUBLIN GULCH DIVERSION CHANNEL PLAN & PROFILE
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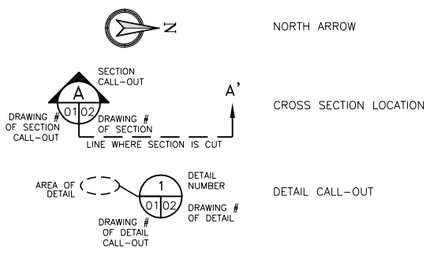
20	DUBLIN GULCH DIVERSION CHANNEL SECTIONS & DETAILS
21	DUBLIN GULCH DIVERSION CHANNEL SECTIONS & DETAILS
22	ULTIMATE HEAP PILE PLAN

GENERAL SYMBOLS



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Victoria GOLD CORP

Issued by:

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Title:

EAGLE GOLD PROJECT
HEAP LEACH FACILITY
LOCATION MAP

C
REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 01
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
SHEET 1 OF 22

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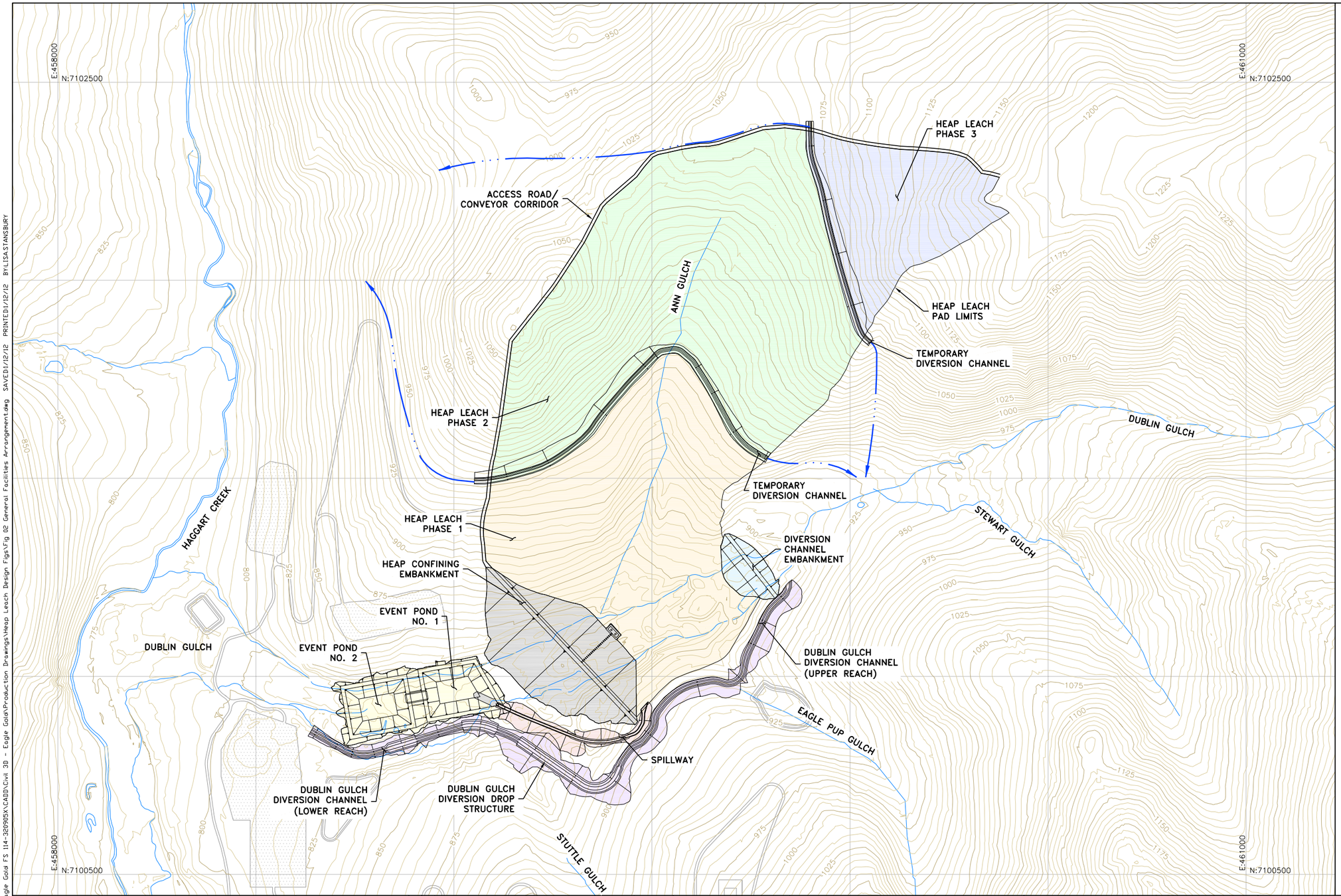

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SCALE

50m 0 150m

CONTOUR INTERVAL 5m

GENERAL LEGEND

℄ – CENTERLINE
DIA. – DIAMETER
EL. – ELEVATION
GCL – GEOSYNTHETIC CLAY LINER
HDPE – HIGH DENSITY POLYETHYLENE
LCRS – LEAK COLLECTION AND REMOVAL SYSTEM
LLDPE – LINEAR LOW DENSITY POLYETHYLENE
MAX. – MAXIMUM
MIN. – MINIMUM
NOM. – NOMINAL
ODF – OVERLINER DRAIN FILL
PE – POLYETHYLENE
ROM – RUN-OF-MINE
TYP. – TYPICAL
50m – DIMENSION IN METERS
2.5:1 – 2.5 HORIZONTAL TO 1 VERTICAL SLOPE
~ – APPROXIMATLY
1020 EXISTING CONTOURS (m)
1020 PROPOSED GRADING CONTOURS (m)
EXISTING ROAD
EXISTING TELEPHONE LINE (OVERHEAD)
EXISTING ELECTRIC LINE (OVERHEAD)
EXISTING DRAINAGE
CP-5 CONTROL POINT
CHANNEL
DRAINAGE CHANNEL
HEAP EMBANKMENT
DIVERSION CHANNEL EMBANKMENT
EVENT PONDS
DIVERSION CHANNEL
SPILLWAY
PHASE 1 PAD
PHASE 2 PAD
PHASE 3 PAD

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Title:

EAGLE GOLD PROJECT
HEAP LEACH FACILITY
GENERAL FACILITIES ARRANGEMENT

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY

Project no.: 320905X

Figure no.: 02

SHEET 02 OF 22

Location: DUBLIN GULCH, YUKON, CANADA

Date: 01/12

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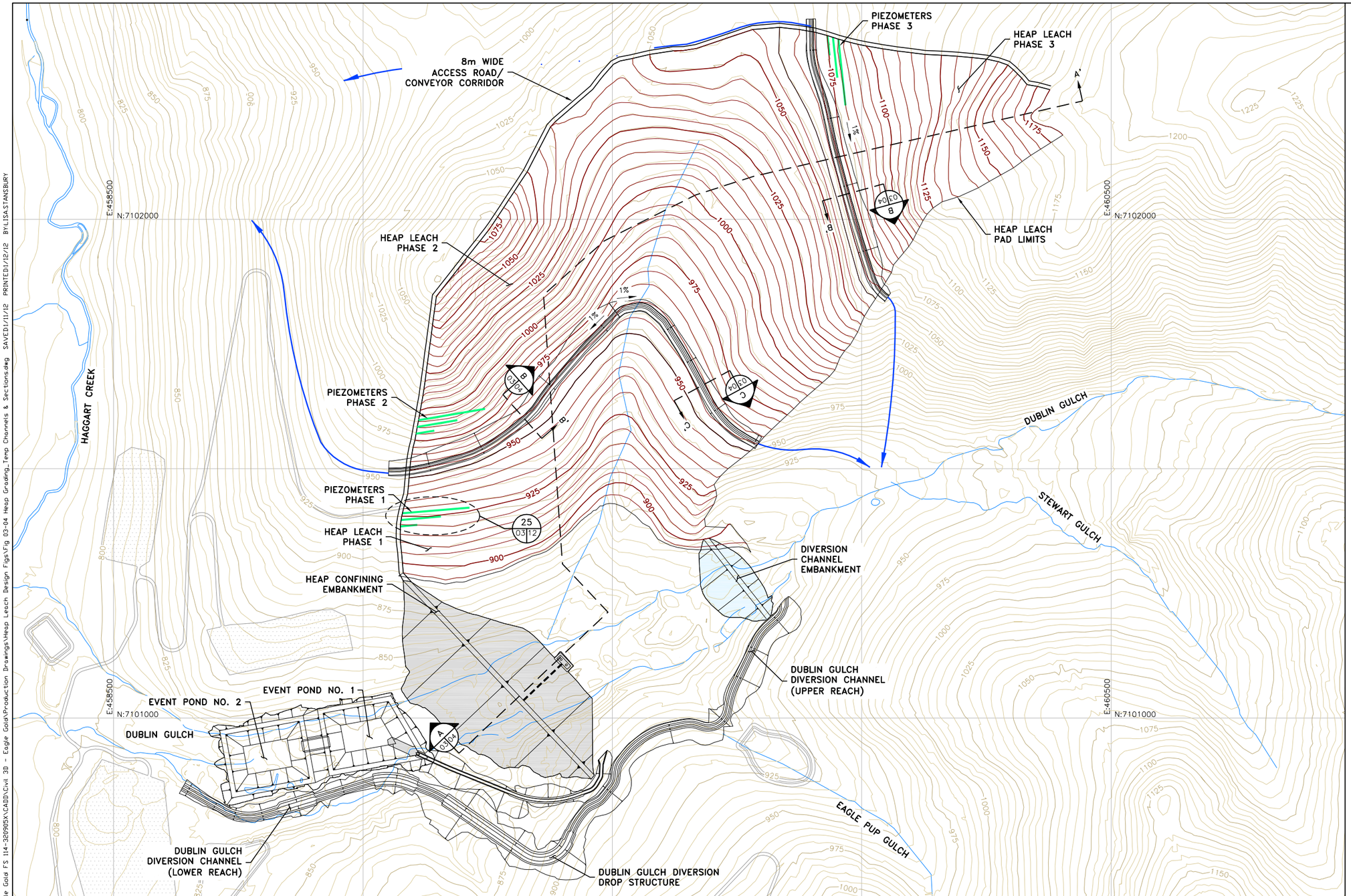

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SCALE

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CONTOUR INTERVAL 5m

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Title:

EAGLE GOLD PROJECT
HEAP LEACH FACILITY
HEAP LEACH PAD GRADING & TEMPORARY DIVERSION CHANNELS

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY

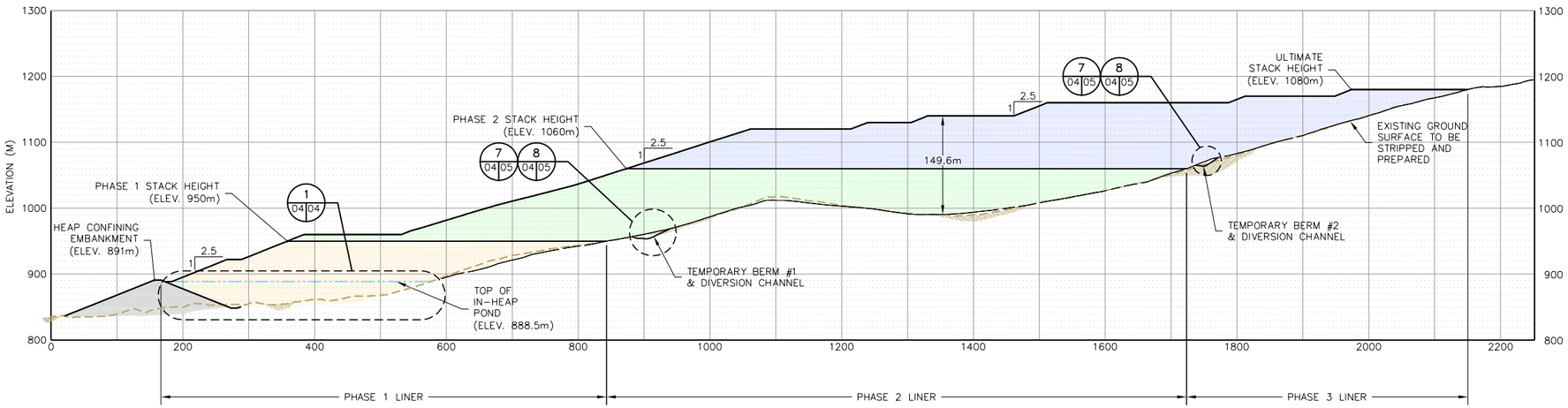
Project no.: 320905X

Figure no.: 03

SHEET 3 OF 22

Location: DUBLIN GULCH, YUKON, CANADA

Date: 01/12



A (03|04) HEAP LEACH PAD CROSS SECTION
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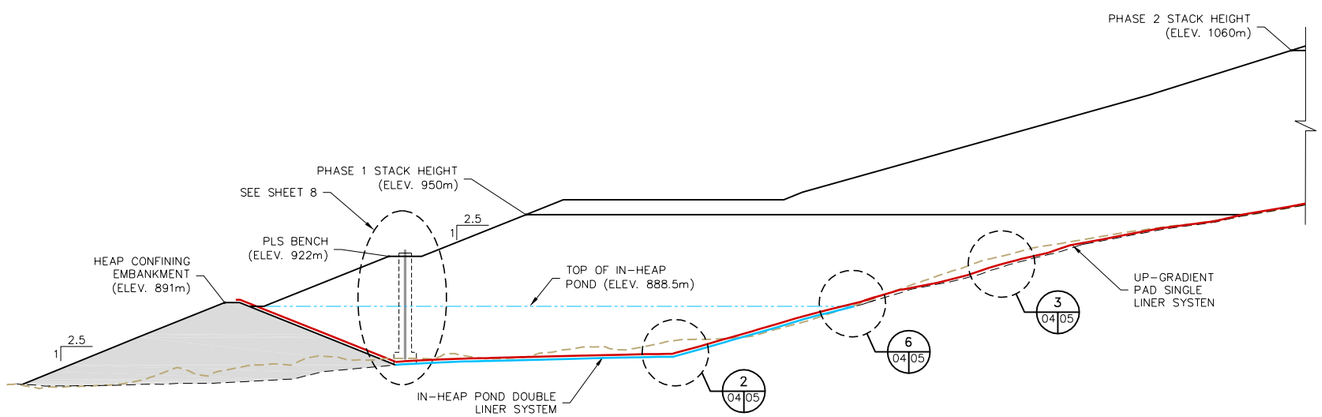

1 (04|04) IN-HEAP POND AND LINER DETAIL
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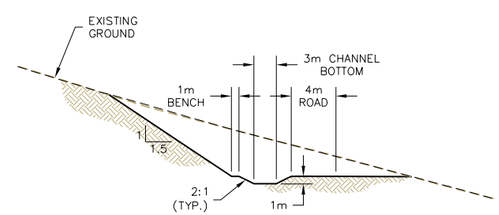

B (03|04) TYP. TEMPORARY DIVERSION CHANNEL SECTION
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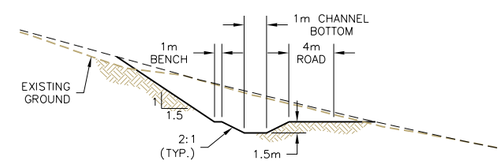

C (03|04) TYP. TEMPORARY DIVERSION CHANNEL SECTION
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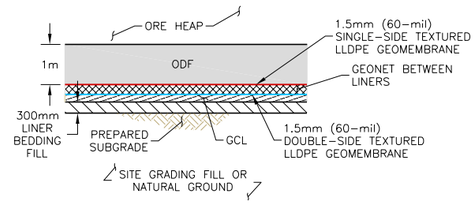
Title:
EAGLE GOLD PROJECT
HEAP LEACH FACILITY
HEAP LEACH PAD SECTIONS

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 04
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
SHEET 4 OF 22



2 05 05 **IN-HEAP PAD LINER DETAIL**
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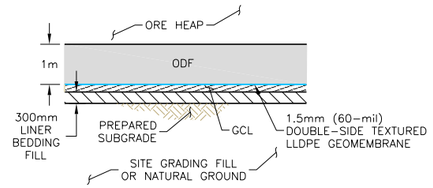

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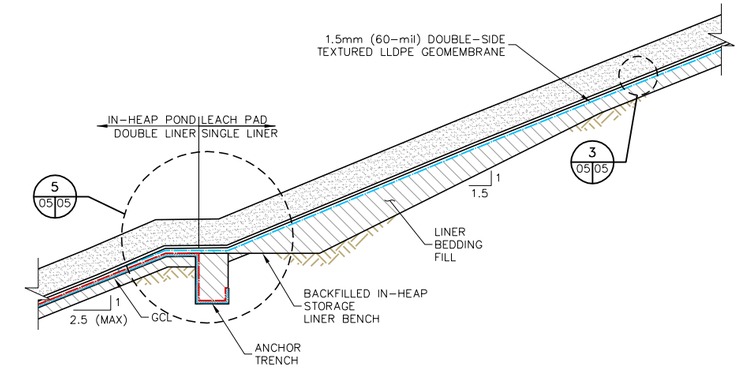

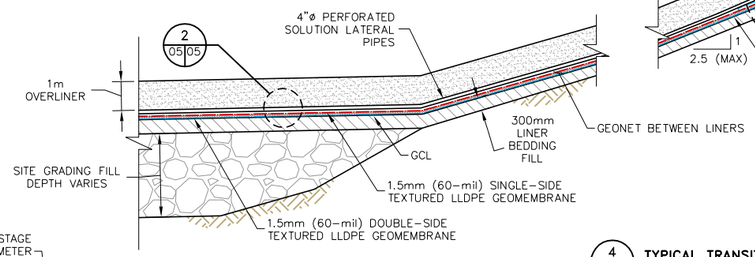

4 05 05 **TYPICAL TRANSITION FROM IN-HEAP STORAGE POND**
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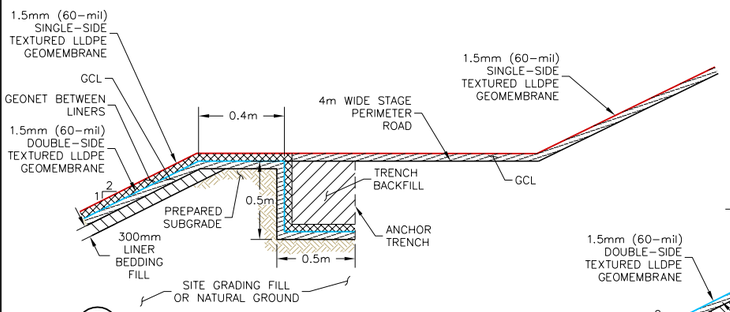

5 05 05 **IN-HEAP PAD GEOMEMBRANE ANCHOR DETAIL**
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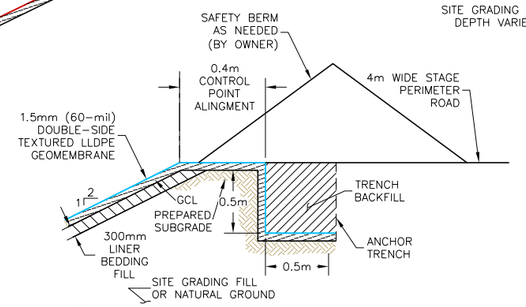

6 05 05 **PAD GEOMEMBRANE ANCHOR DETAIL**
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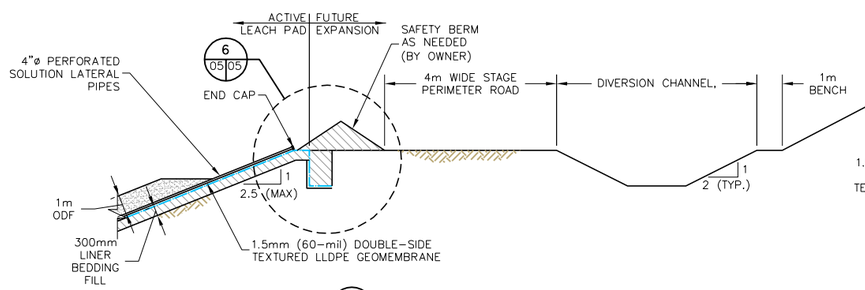

7 05 05 **TYPICAL STAGE PERIMETER ROAD**
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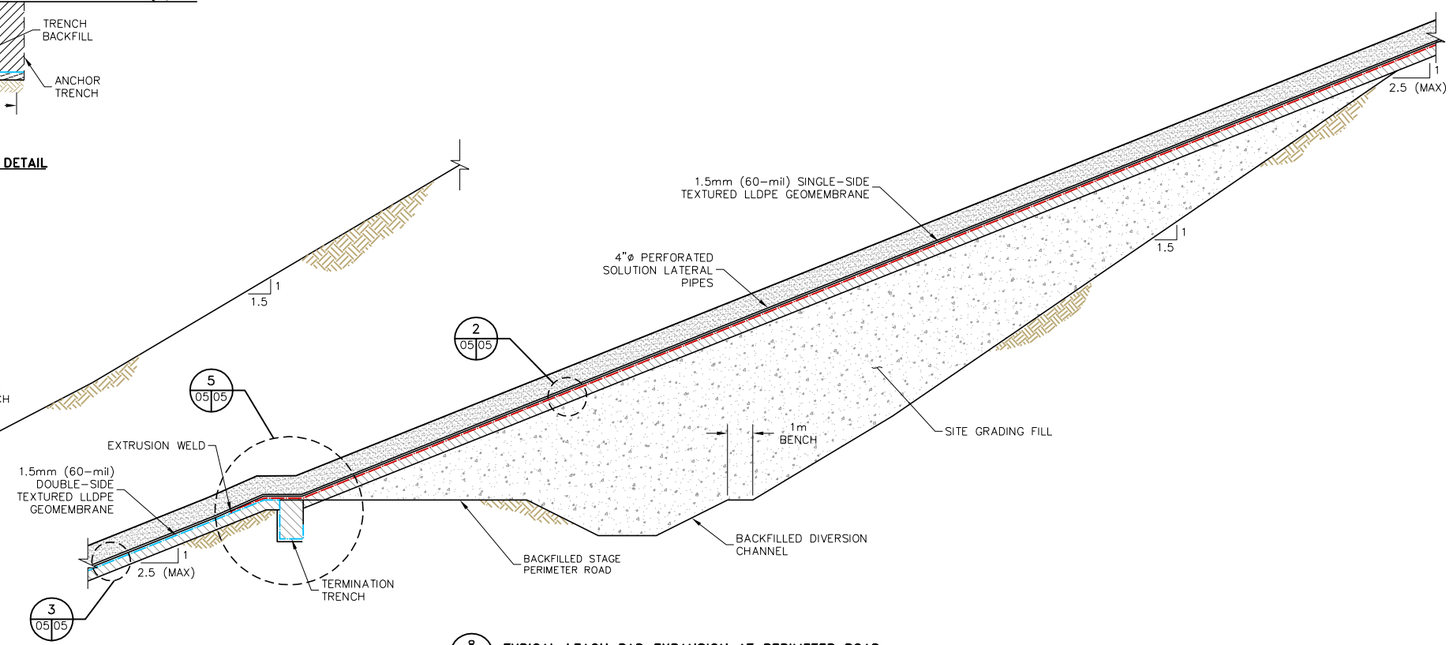

8 # 05 **TYPICAL LEACH PAD EXPANSION AT PERIMETER ROAD**
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Title: EAGLE GOLD PROJECT
HEAP LEACH FACILITY
HEAP LEACH DETAILS

REVISION C

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 05
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
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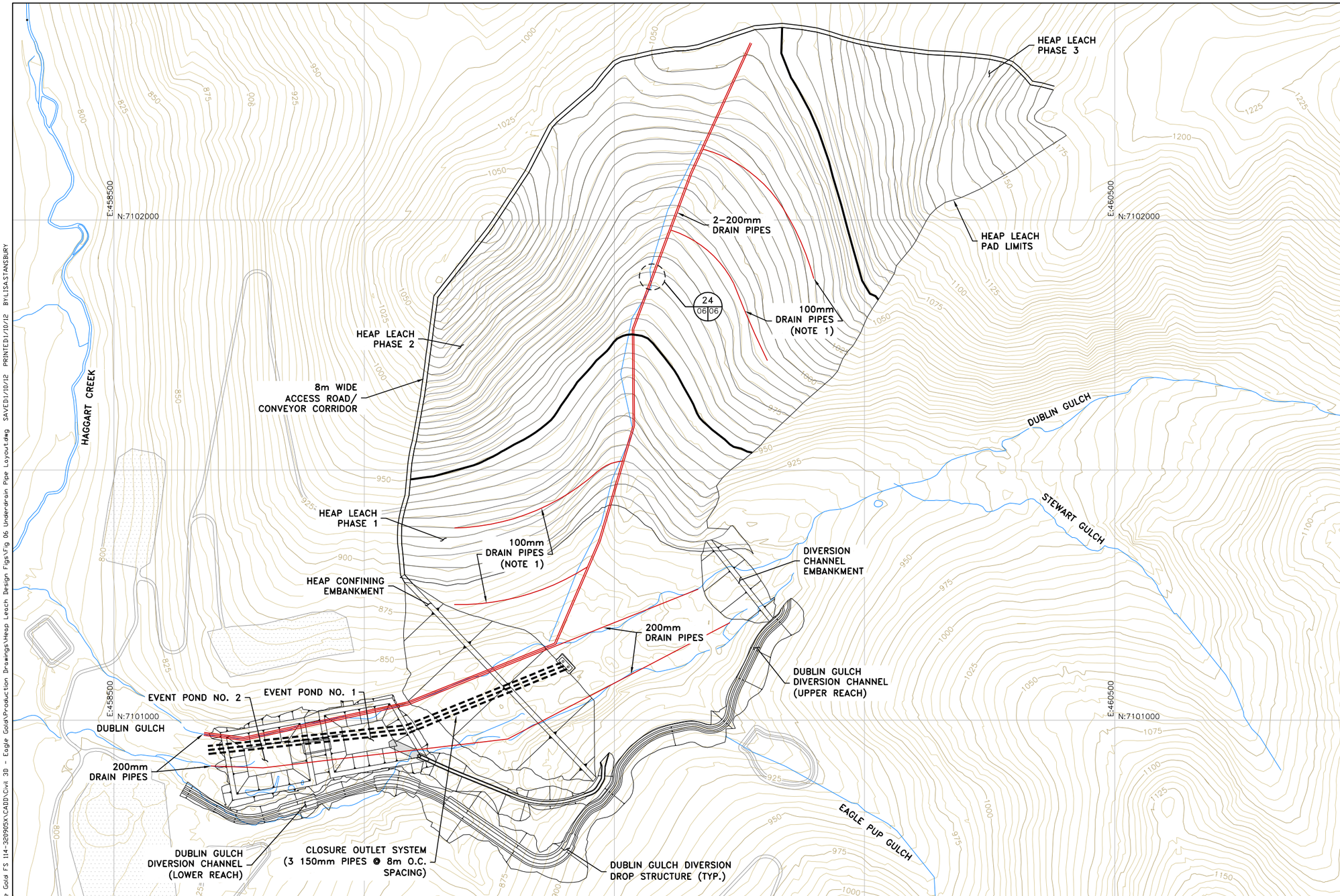

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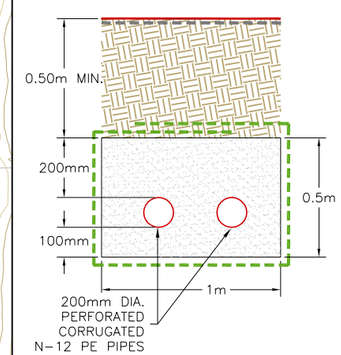
NOTES:
1) FRENCH DRAINS TO BE EXTENDED TO SEEPAGE AREAS AT ±3% GRADE AS DIRECTED BY FIELD ENGINEER



24 06 06 TYPICAL POND UNDERDRAIN DETAIL
N.T.S

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Title:

EAGLE GOLD PROJECT HEAP LEACH FACILITY UNDERDRAIN PIPES LAYOUT

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY

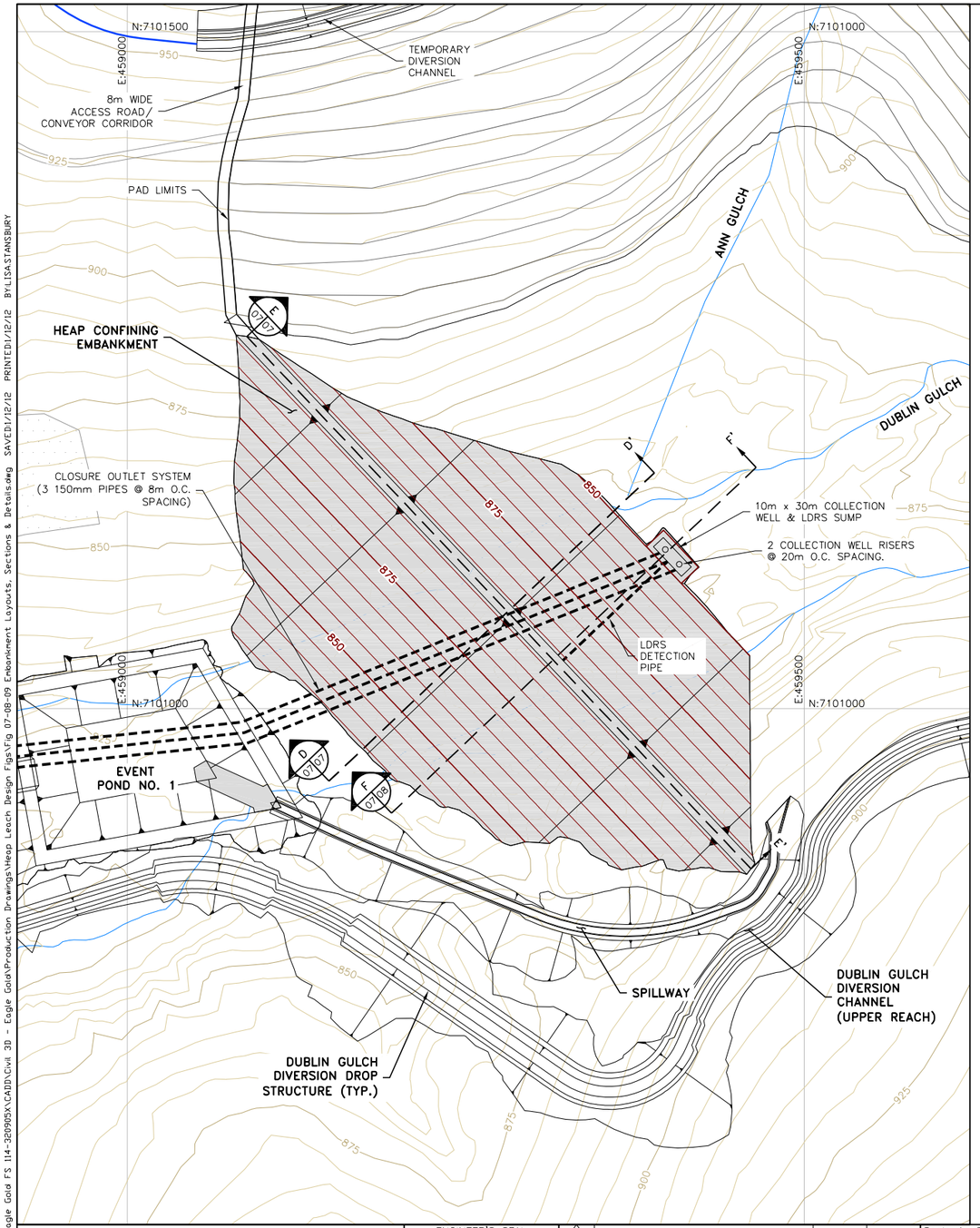
Project no.: 320905X

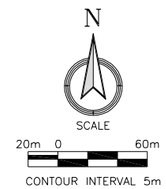
Figure no.: 06

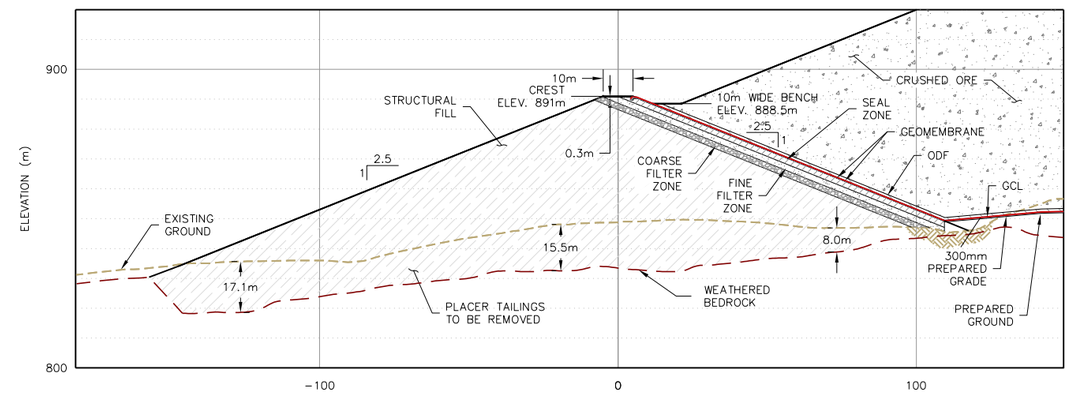
Location: DUBLIN GULCH, YUKON, CANADA

Date: 01/12

SHEET 6 OF 22







D 07/07 **HEAP EMBANKMENT TYPICAL SECTION**
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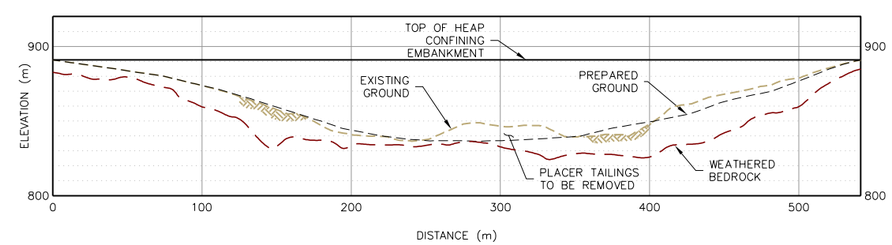

E 07/07 **HEAP EMBANKMENT TYPICAL SECTION**
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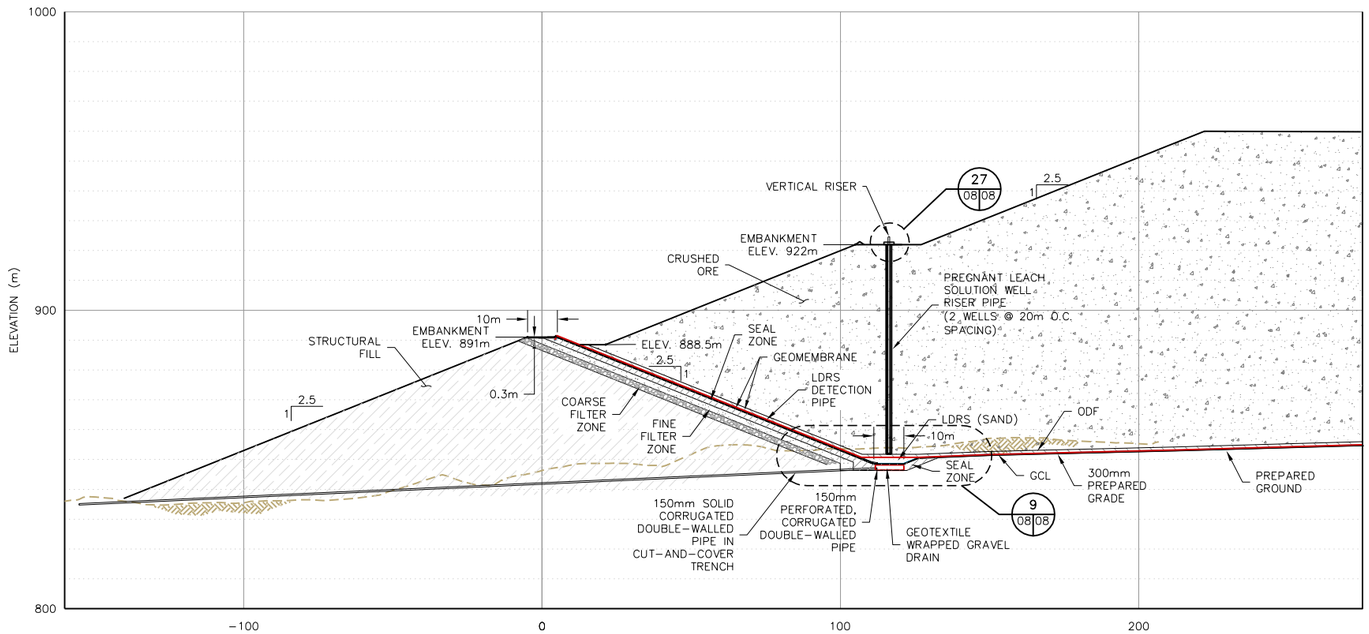
(520) 297-7723 (520) 297-7724 fax

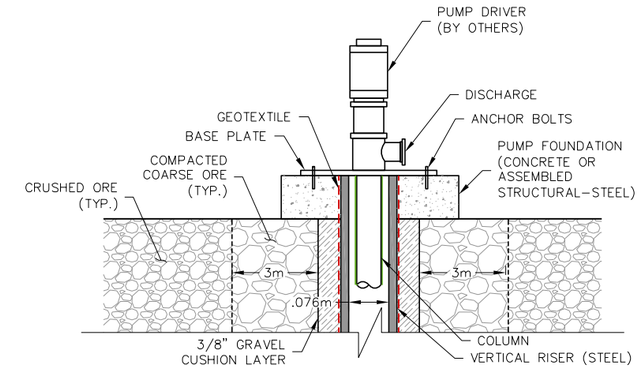
Title:
EAGLE GOLD PROJECT
HEAP LEACH FACILITY
HEAP CONFINING EMBANKMENT
PLAN & SECTION

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 07
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
SHEET 7 OF 22



F 07 08 **PREGNANT LEACH SOLUTION SUMP**
NTS



27 08 08 **TYPICAL PUMP INSTALLATION DETAIL**
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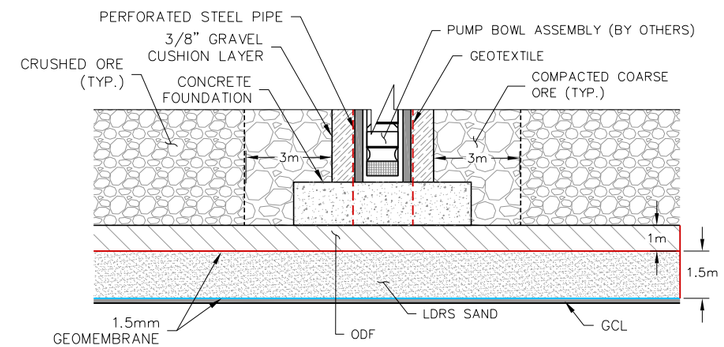

28 08 08 **TYPICAL PUMP INSTALLATION DETAIL**
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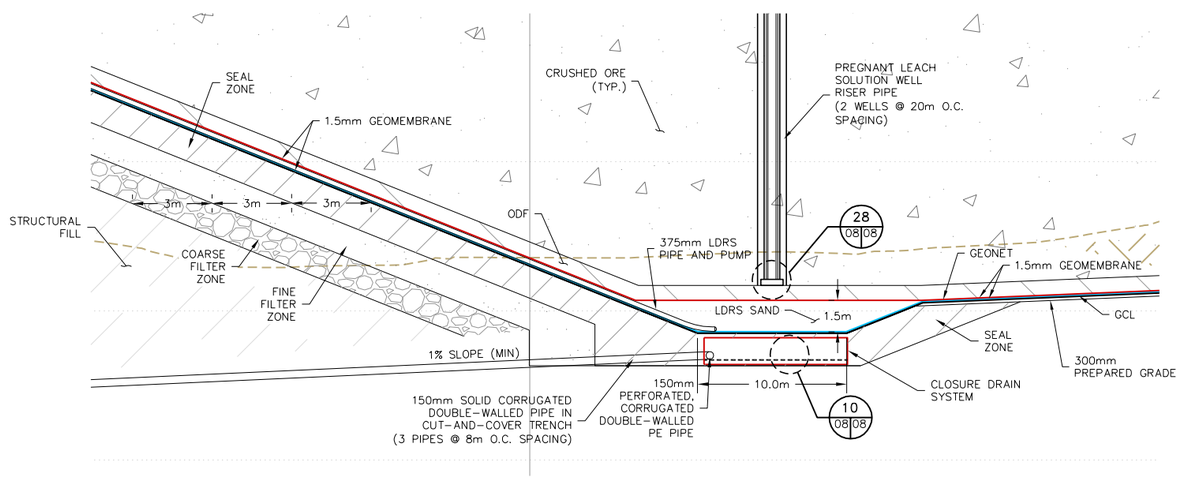

9 08 08 **PREGNANT LEACH SOLUTION SUMP DETAIL**
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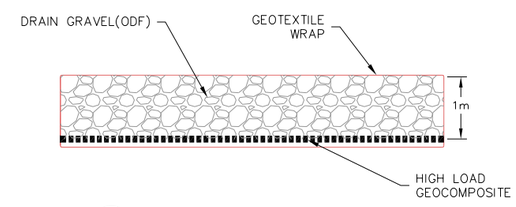

10 08 08 **GEOTEXTILE WRAPPED DRAIN**
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Victoria GOLD CORP

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3031 West Ina Road
Tucson, Arizona 85741
(520) 297-7723 (520) 297-7724 fax

Title:
EAGLE GOLD PROJECT
HEAP LEACH FACILITY
PLS SUMP DETAILS

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 08
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
SHEET 8 OF 22

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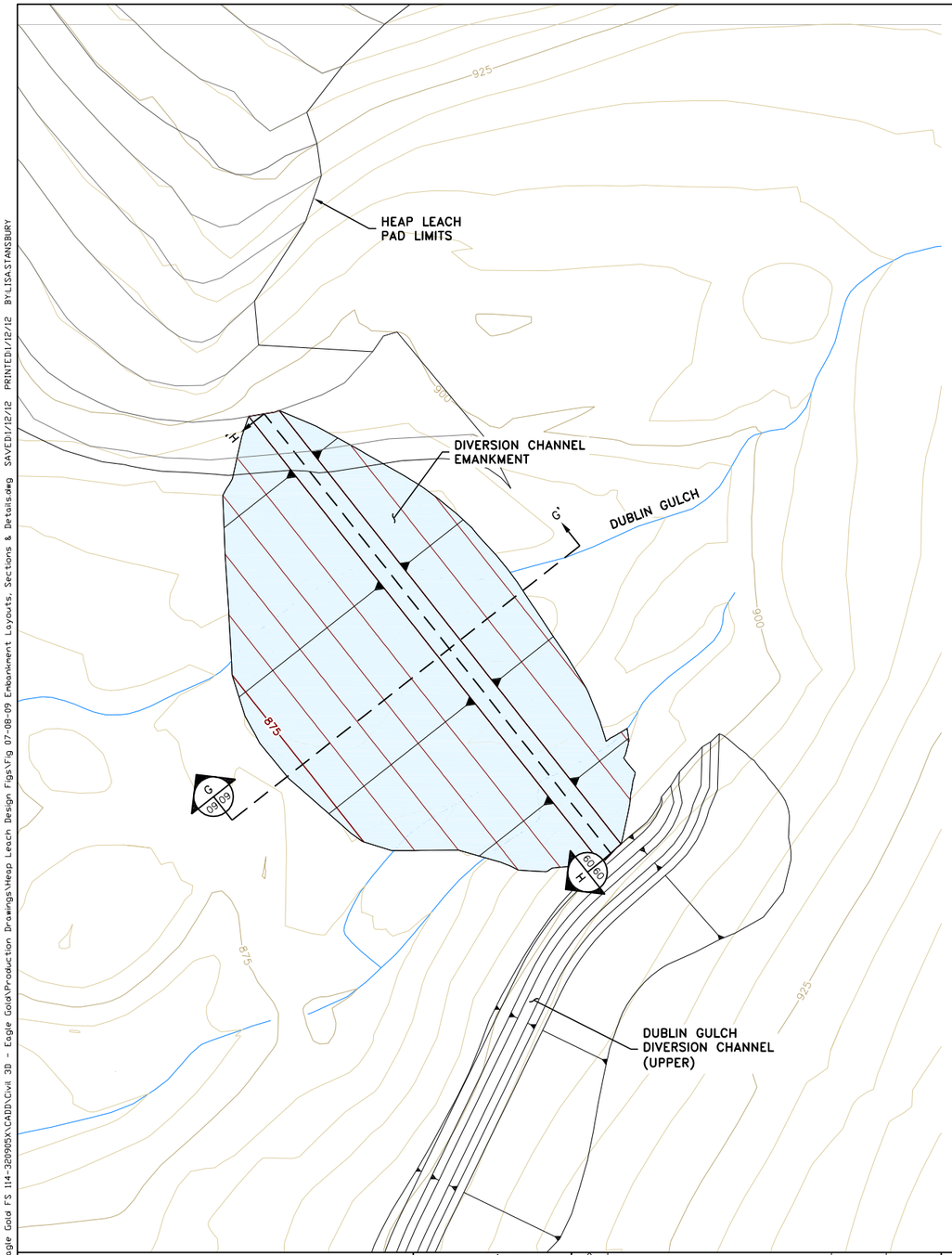

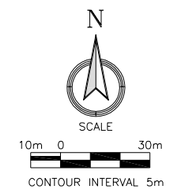

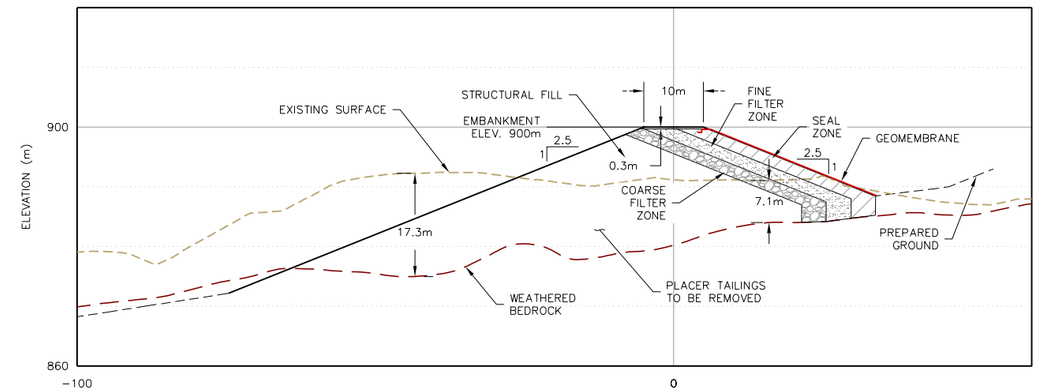

G 09|09 **DIVERSION CHANNEL EMBANKMENT TYPICAL SECTION**
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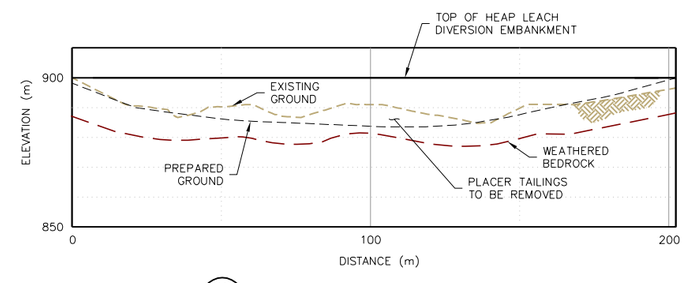

H 09|09 **HEAP EMBANKMENT TYPICAL SECTION**
SCALE: 1cm=10m (22x34 FORMAT)

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Title:
EAGLE GOLD PROJECT
HEAP LEACH FACILITY
DIVERSION CHANNEL EMBANKMENT
PLAN & SECTION

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 09
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
SHEET 9 OF 22

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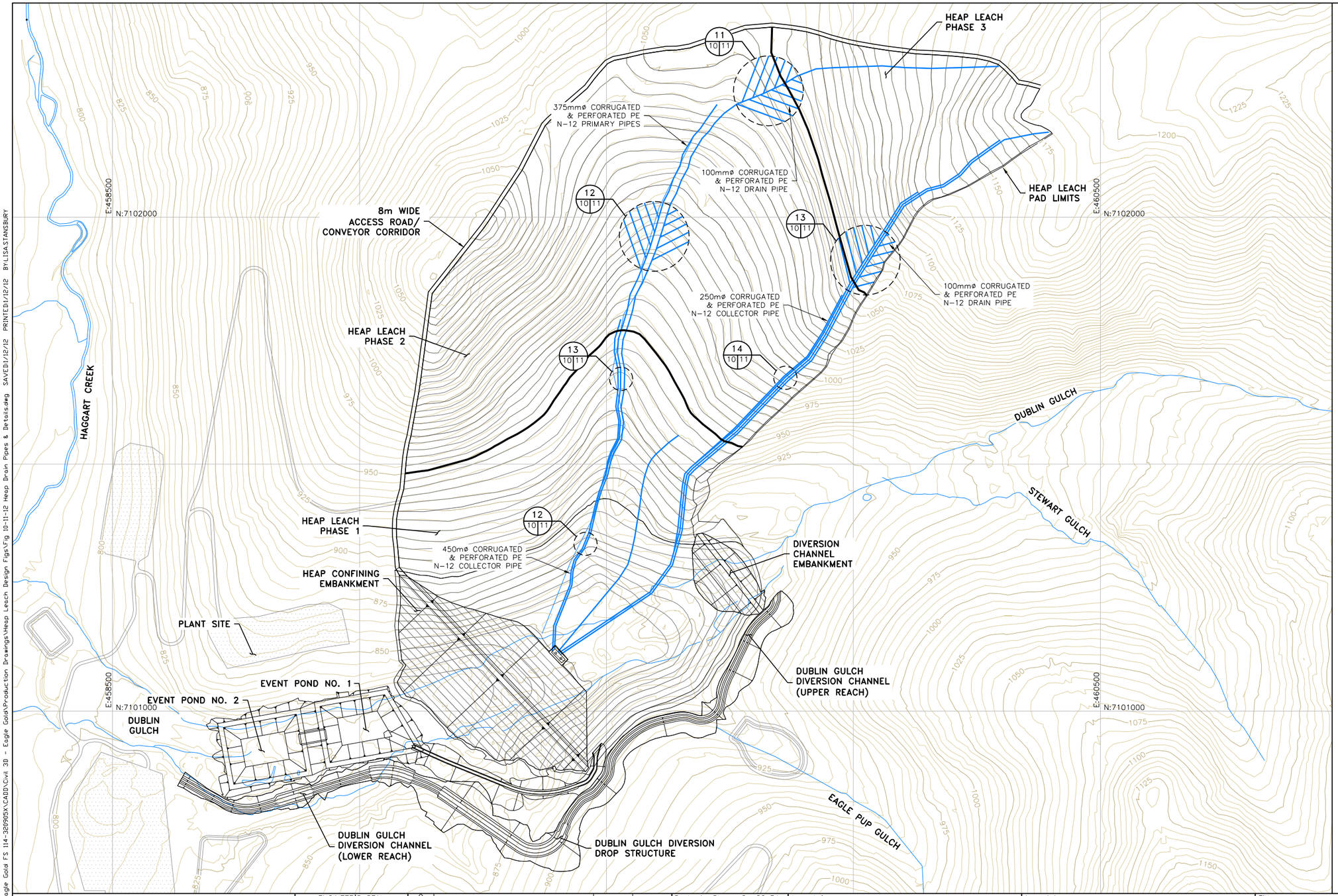

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Title:

EAGLE GOLD PROJECT HEAP LEACH FACILITY DRAIN PIPE LAYOUT

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY

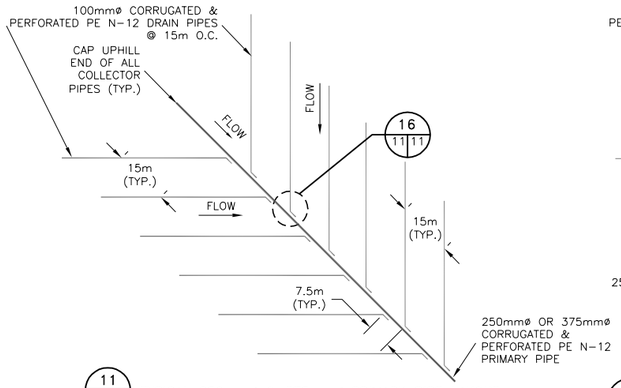
Project no.: 320905X

Figure no.: 10

Location: DUBLIN GULCH, YUKON, CANADA

Date: 01/12

SHEET 10 OF 22



11 / 10 11 **TYPICAL 250mmø & 375mmø PRIMARY PIPE LAYOUT**
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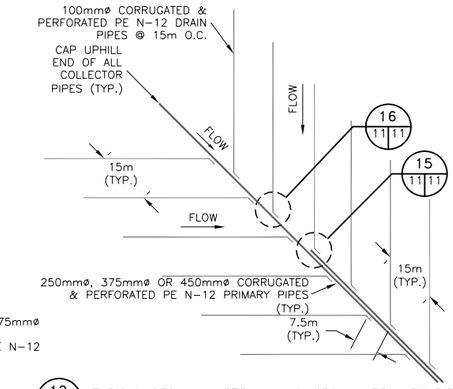

12 / 10 11 **TYPICAL 250mmø, 375mmø, & 450mm PRIMARY PIPE LAYOUT**
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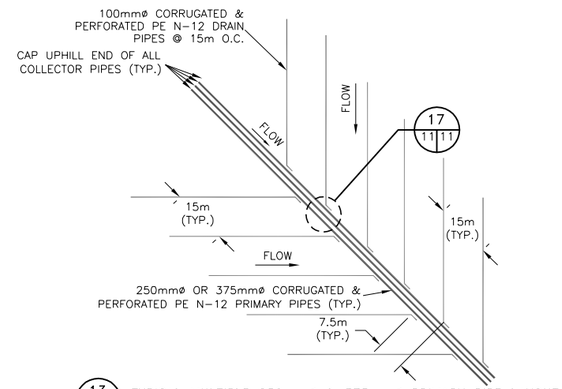

13 / 10 11 **TYPICAL MULTIPLE 250mmø & 375mmø PRIMARY PIPE LAYOUT**
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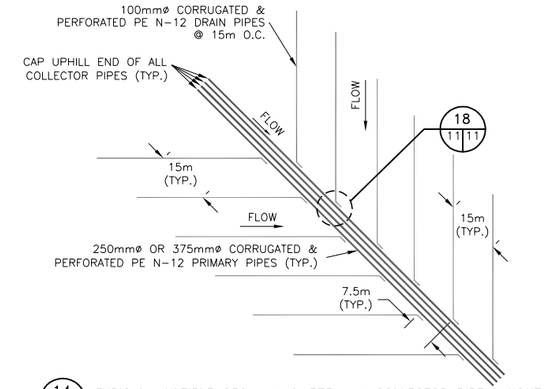

14 / 10 11 **TYPICAL MULTIPLE 250mmø & 375mmø COLLECTOR PIPE LAYOUT**
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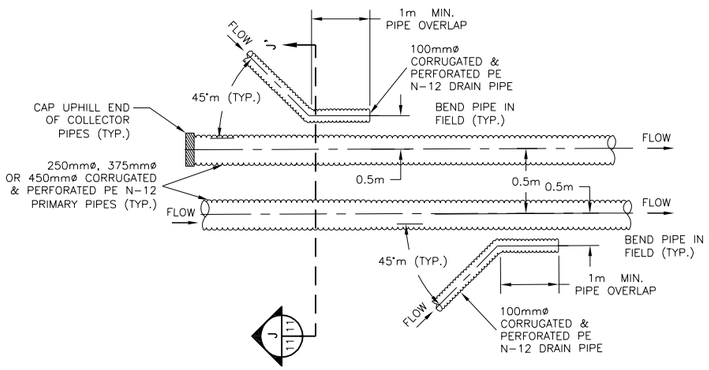

15 / 11 11 **MULTIPLE 250mmø, 375mmø OR 450mmø PRIMARY PIPE DETAIL**
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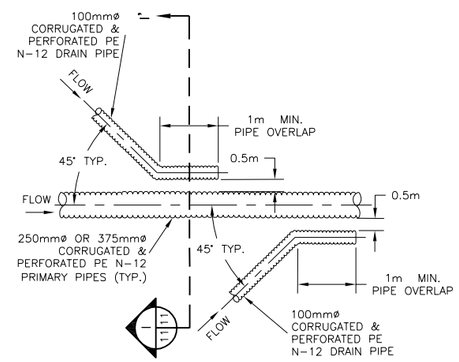

16 / 11 11 **SINGLE 250mmø & 375mmø PRIMARY PIPE DETAIL**
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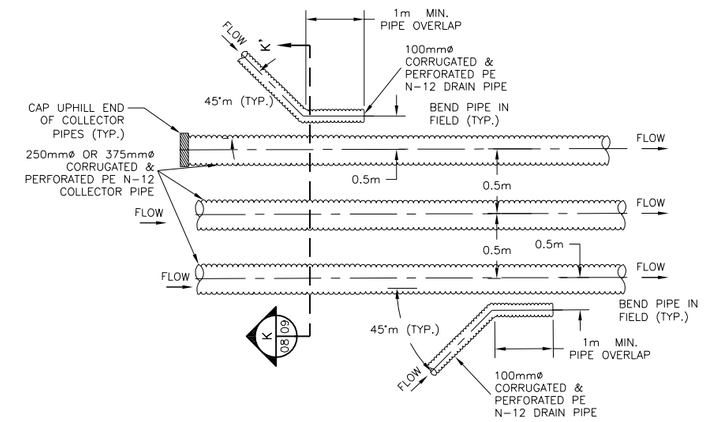

17 / 11 11 **MULTIPLE 250mmø & 375mmø COLLECTOR PIPE DETAIL**
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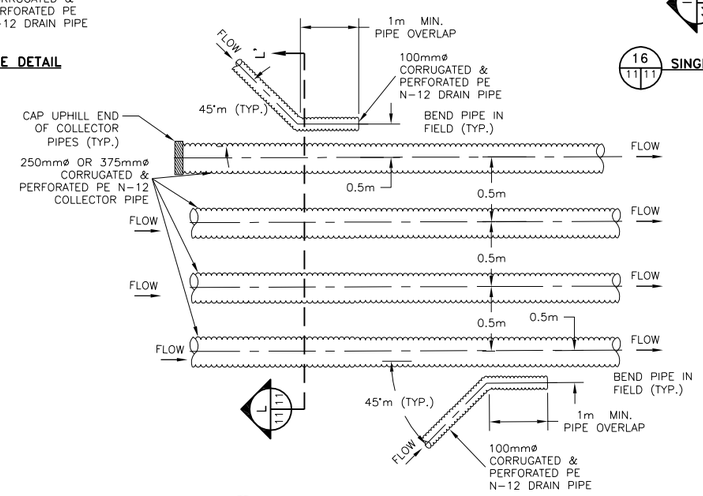

18 / 11 11 **MULTIPLE 250mmø & 375mmø COLLECTOR PIPE DETAIL**
N.T.S.

NOTES:

1. DRAIN FILL THICKNESS SHALL BE 1 METER (MINIMUM) WITH A MINIMUM OF 0.50 METER COVER DEPTH OVER TOP OF ALL PIPES. IN AREAS TO BE TRAFFICKED BE ORE HAUL TRUCKS, DRAIN FILL MINIMUM THICKNESS SHALL BE 1 METER.
2. CAP UPHILL END OF ALL PIPES.

REFERENCE

ENGINEER'S SEAL
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Title: EAGLE GOLD PROJECT
HEAP LEACH FACILITY
DRAIN PIPE DETAILS

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 11
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
SHEET 11 OF 22

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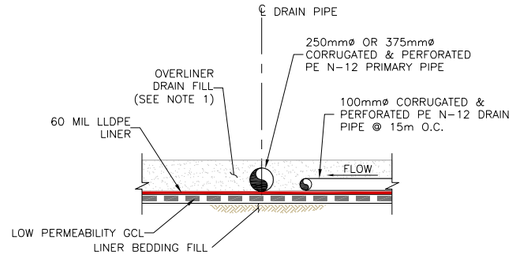

I 11|12 **SINGLE DRAIN PIPE CROSS SECTION**
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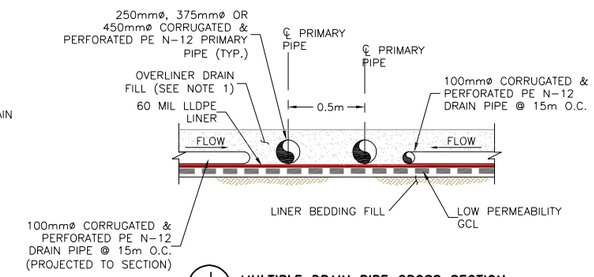

J 11|12 **MULTIPLE DRAIN PIPE CROSS SECTION**
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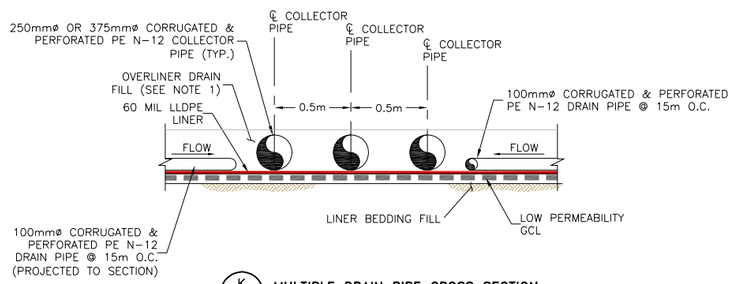

K 11|12 **MULTIPLE DRAIN PIPE CROSS SECTION**
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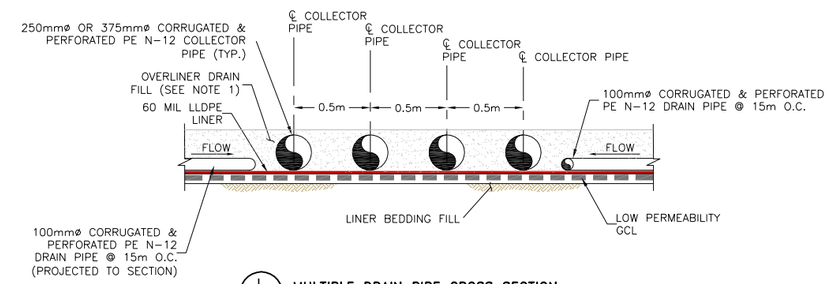

L 11|12 **MULTIPLE DRAIN PIPE CROSS SECTION**
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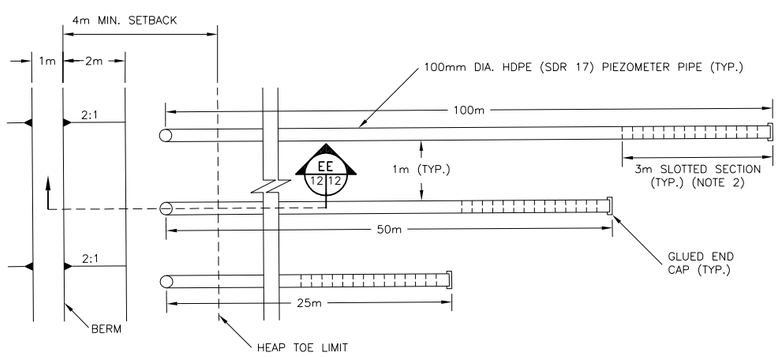

25 03|12 **PAD CELL PIEZOMETERS TYPICAL LAYOUT**
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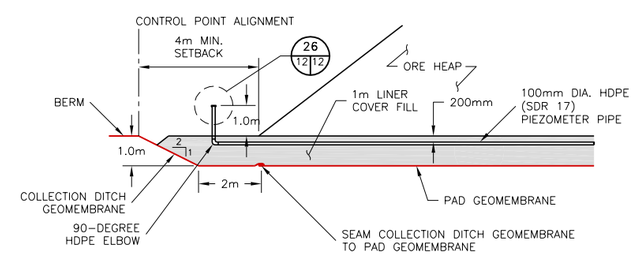
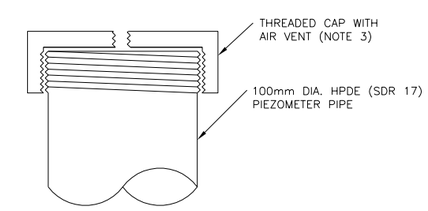
(NOTE 1)



EE 12|12 **PAD CELL PIEZOMETER PIPE SECTION**
NOT TO SCALE



26 12|12 **PIEZOMETER PIPE CAP DETAIL**
NOT TO SCALE

NOTES:

1) FIELD LOCATE PIEZOMETER PIPES IN THE LOWEST PORTION OF EACH PAD PHASE WITH THE PIPE OUTLETS NEAR THE ACCESS ROAD. PIPES SHALL EXTEND INTO THE PAD ALONG ITS FLATTEST GRADE.

2) SLOTS SHALL BE AT CROWN OF PIPE AND SHALL BE EQUALLY SPACED AT 75mm CENTERS. SLOTS DIMENSIONS SHALL BE 3mm WIDE BY 38mm LONG.

3) AIR VENT HOLE IN CAP SHALL BE THREADED FOR PRESSURE GAUGE ATTACHMENT TO MEASURE HYDRAULIC HEAD. GAUGE SHALL BE PROVIDED BY OTHERS AND SHALL BE ATTACHED FOLLOWING EVACUATION OF AIR FROM PIPE DURING INITIAL HEAP STACKING AND LEACHING.

REFERENCE

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(520) 297-7723 (520) 297-7724 fax

Title:
EAGLE GOLD PROJECT
HEAP LEACH FACILITY
DRAIN PIPE AND PIEZOMETER DETAILS

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 12
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
SHEET 12 OF 22

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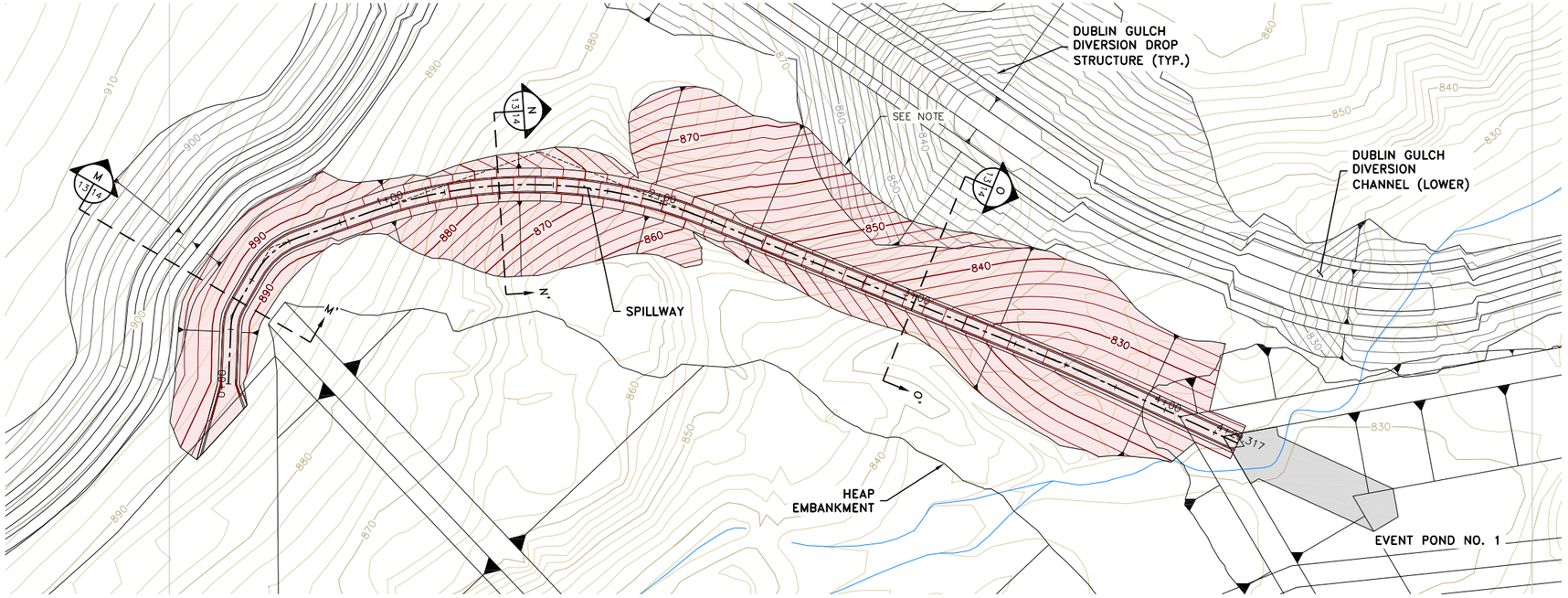
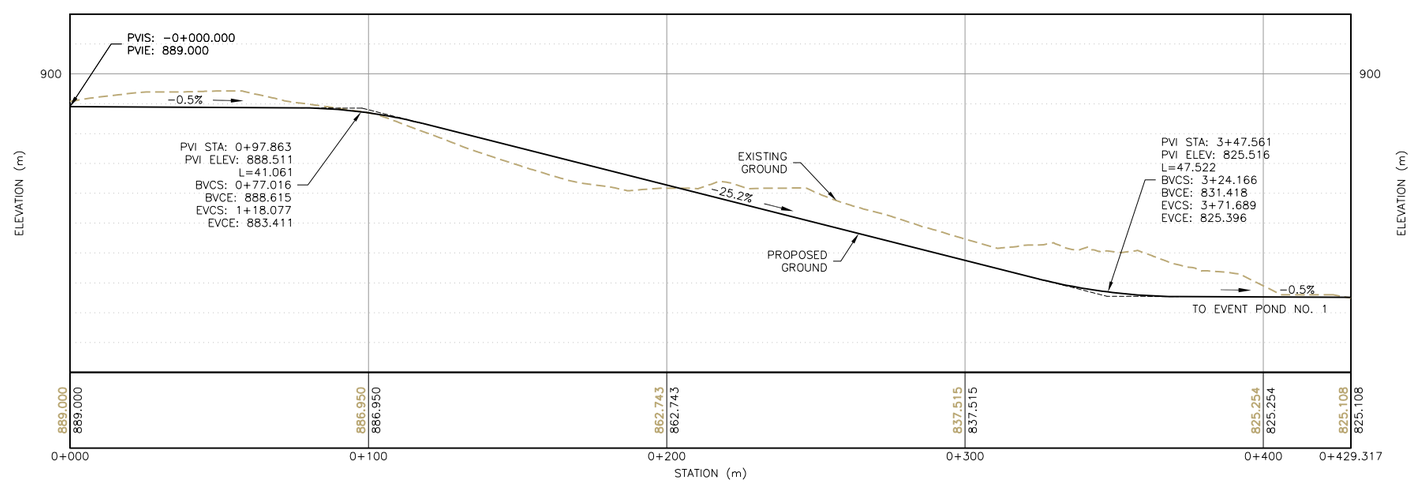


NOTE:

SPILLWAY GRADED TO DIVERSION CHANNEL.

SPILLWAY PLAN



SPILLWAY PROFILE

SCALE: 1:10 (22x34 FORMAT)

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EAGLE GOLD PROJECT
HEAP LEACH FACILITY
SPILLWAY PLAN & PROFILE

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY

Project no.: 320905X

Figure no.: 13

Location: DUBLIN GULCH, YUKON, CANADA

Date: 01/12

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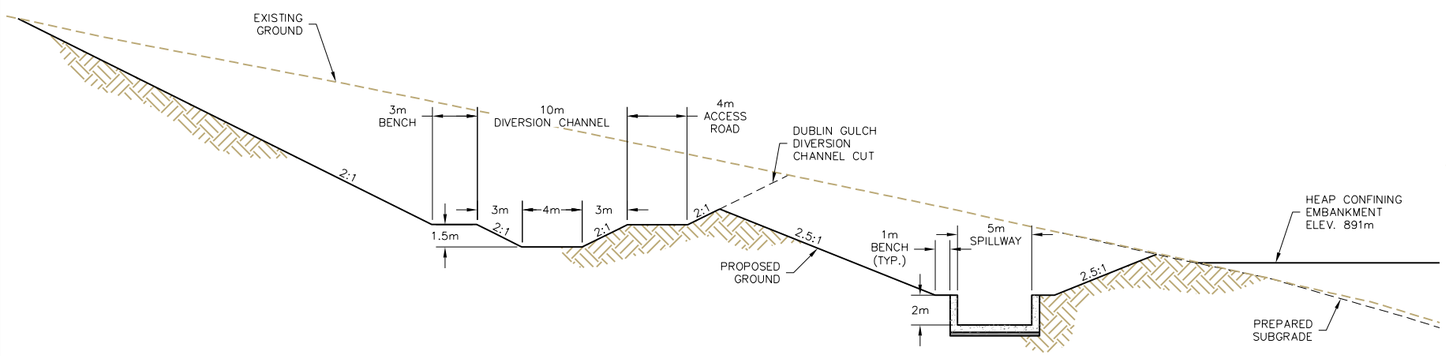
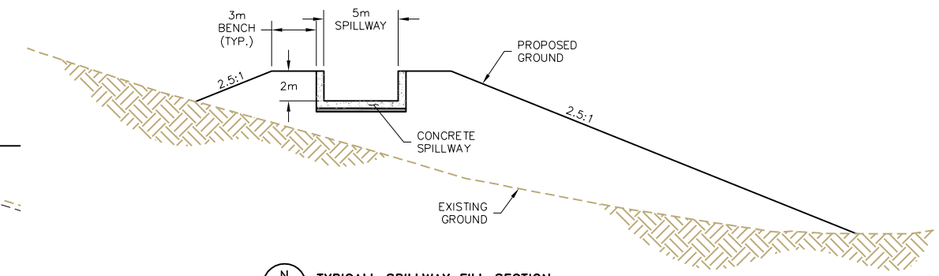


M 13|14 **SPILLWAY TYPICAL SECTION**
NTS



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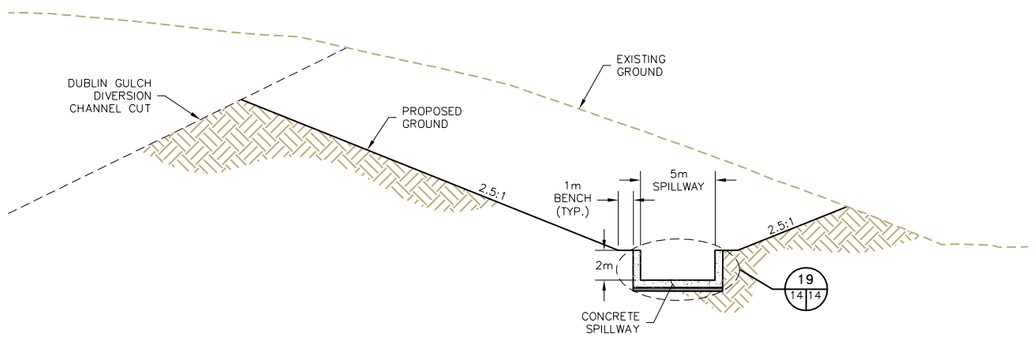

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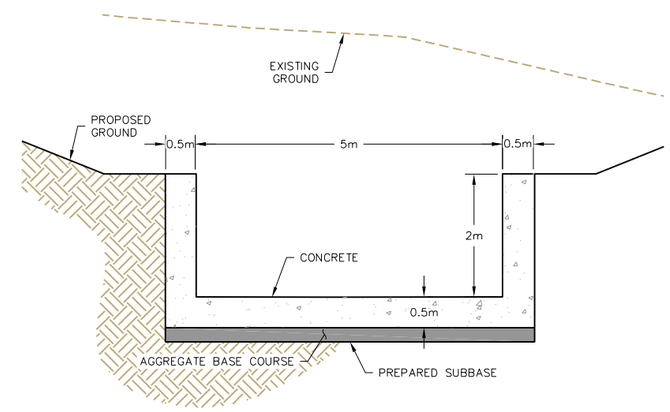

19 14|14 **SPILLWAY TYPICAL SECTION**
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Title: EAGLE GOLD PROJECT
HEAP LEACH FACILITY
SPILLWAY SECTIONS & DETAILS

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 14
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
SHEET 14 OF 22

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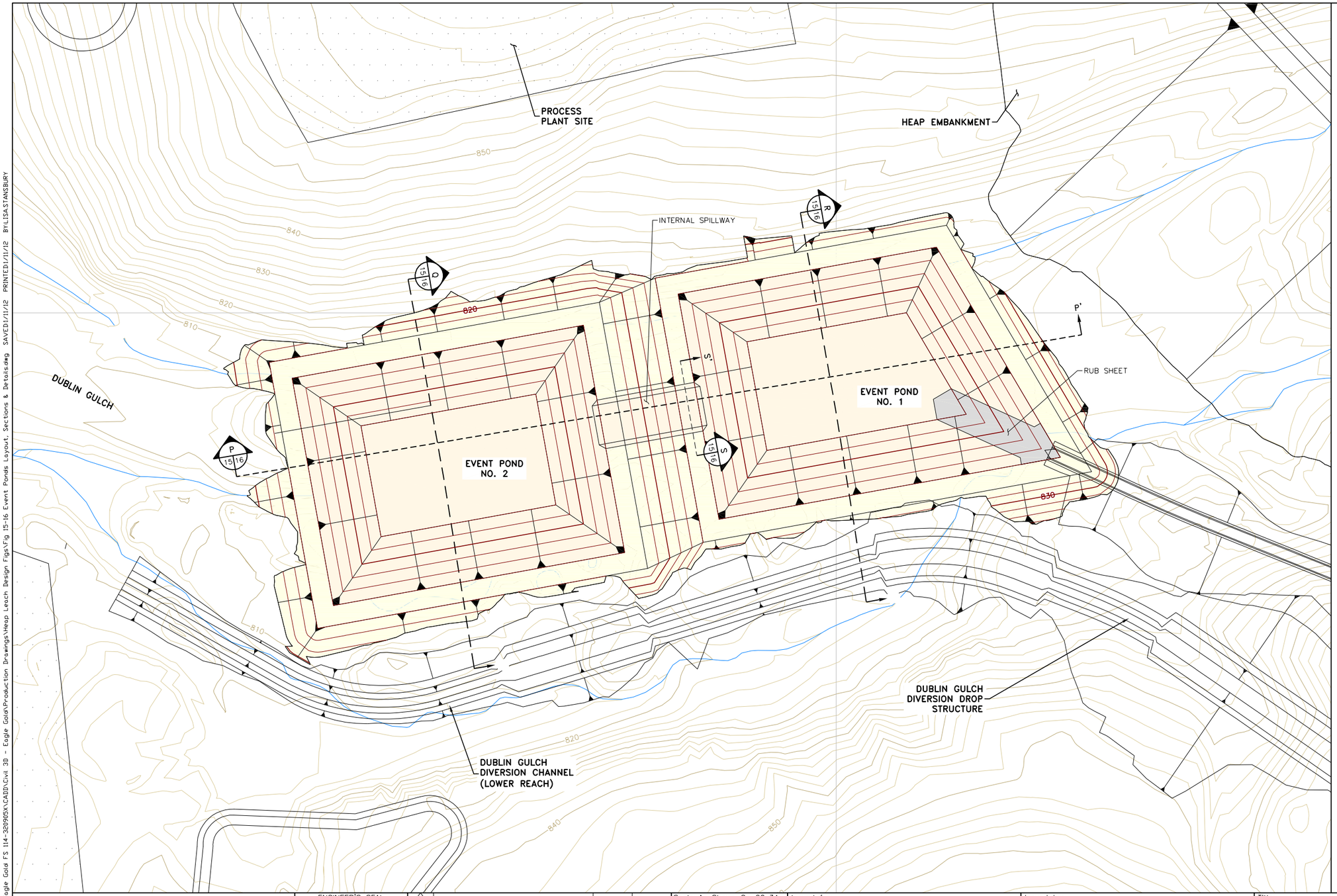

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Title:

EAGLE GOLD PROJECT
HEAP LEACH FACILITY
EVENT POND LAYOUTS

C
REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY

Project no.: 320905X

Figure no.: 15

Location: DUBLIN GULCH, YUKON, CANADA

Date: 01/12

SHEET 15 OF 22

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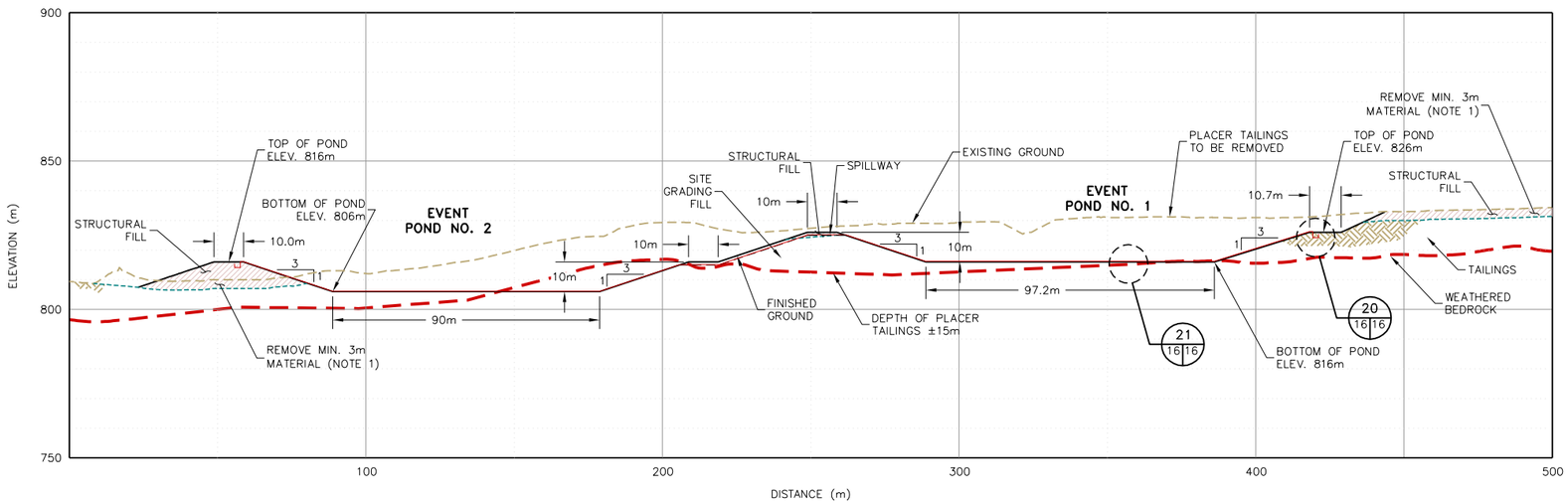
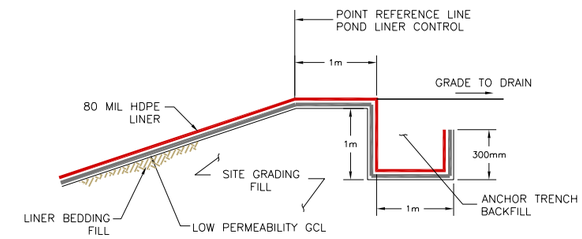


P 15|16 **FEASIBILITY DESIGN EVENT PONDS TYPICAL SECTION**
SCALE: 1:10



20 16|16 **SINGLE-LINED POND ANCHOR DETAIL**
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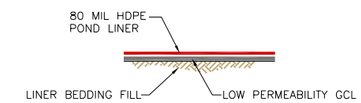

21 16|16 **SINGLE-LINED POND DETAIL**
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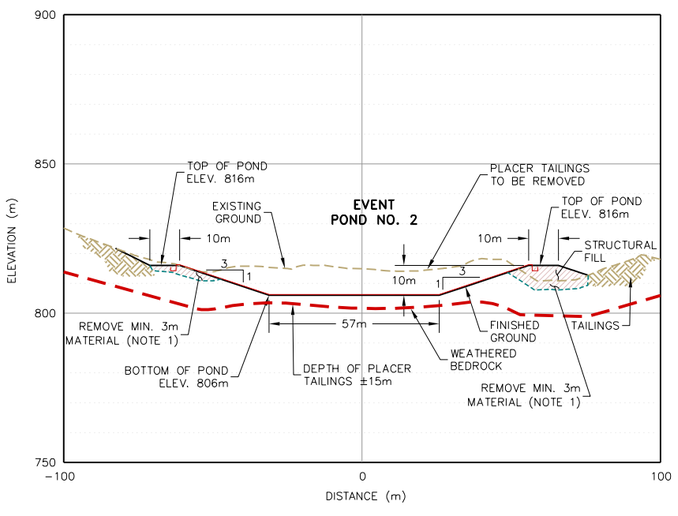
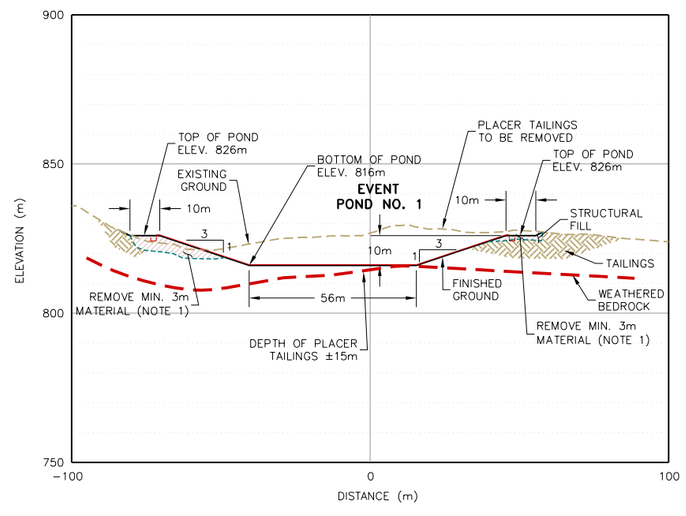


Q 15|16 **EVENT POND NO. 2 TYPICAL SECTION**
SCALE: 1:10



R 15|16 **EVENT POND NO. 1 TYPICAL SECTION**
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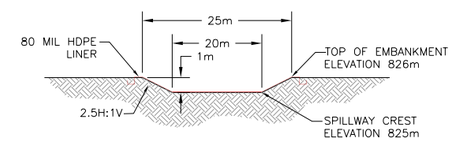

S 15|16 **EVENT POND SPILLWAY DETAIL**
N.T.S.

NOTE 1: UNSUITABLE LOOSE PLACER AND ALLUVIAL MATERIALS SHALL BE REMOVED TO A MINIMUM DEPTH OF 3m OR AS DIRECTED BY THE FIELD ENGINEER BASED ON OBSERVED FIELD CONDITIONS.

REFERENCE

ENGINEER'S SEAL
DRAFT

Rev	Description	BY	Date
C	FEASIBILITY DESIGN SUBMITTAL	TLM	01/13/12
B	PROGRESS PRINT	JAC	9/13/11
A	PRELIMINARY ISSUE FOR CLIENT INFORMATION	JAC	7/1/11

REVISIONS

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Drawn by: JCP/LMS
Checked by: TLM
Approved by: TLM

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Issued by: TETRA TECH
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Tucson, Arizona 85741
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Title:
EAGLE GOLD PROJECT
HEAP LEACH FACILITY
EVENT POND SECTIONS

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 16
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
SHEET 16 OF 22

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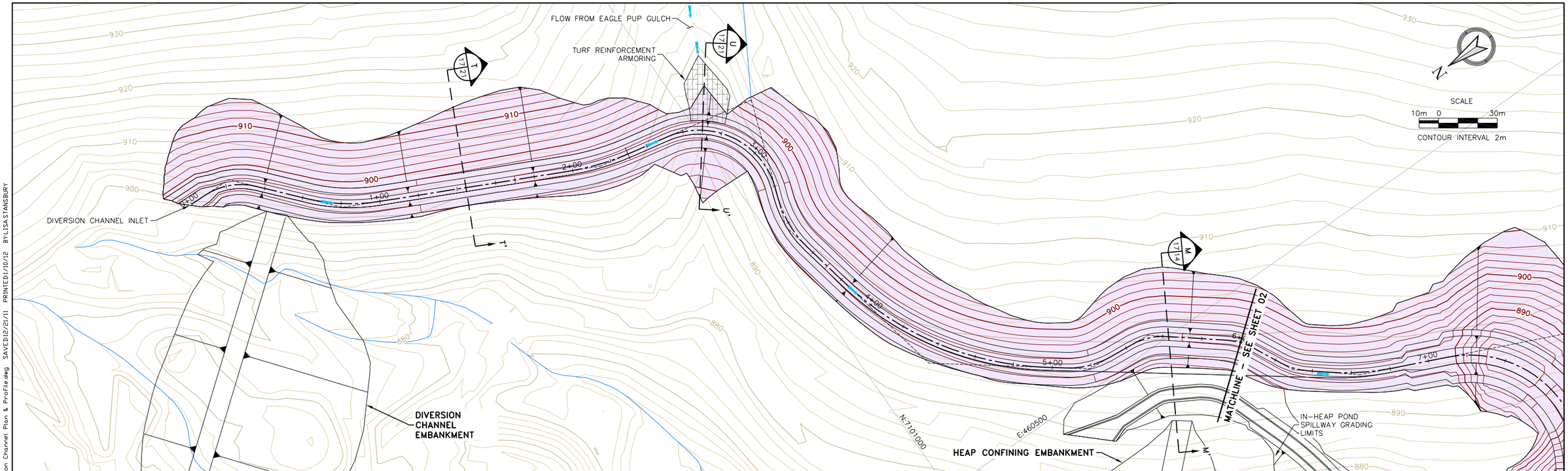
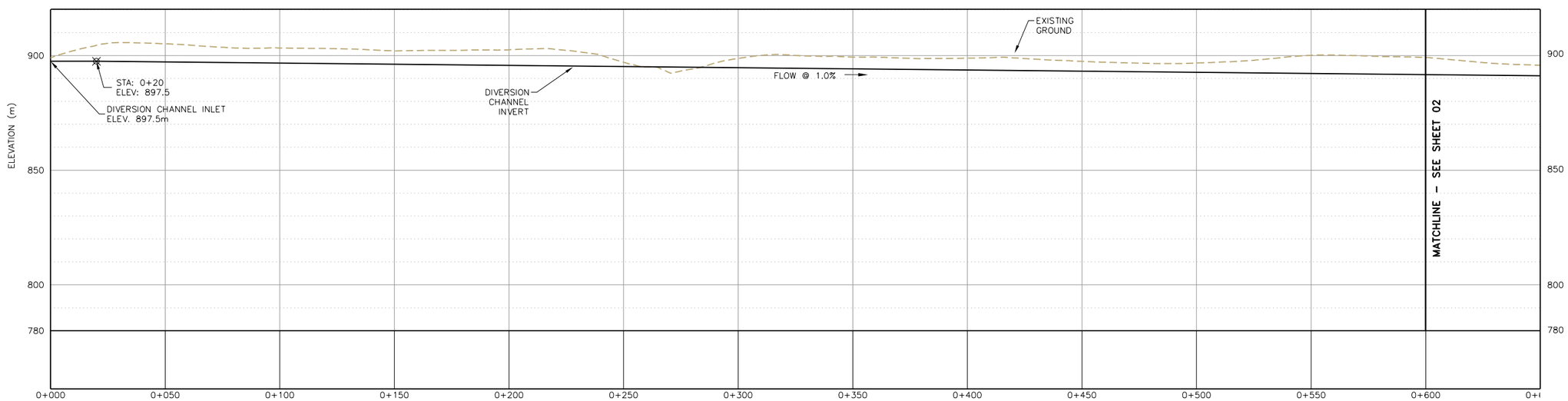


STA. 0+00–6+00 DUBLIN GULCH DIVERSION CHANNEL PLAN

SCALE: 1cm=10m (22x34 FORMAT)



STA. 0+00–6+00 DUBLIN GULCH DIVERSION CHANNEL PROFILE

SCALE: 1cm=10m (22x34 FORMAT)

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PLAN & PROFILE

REVISION C

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY

Project no.: 320905X

Figure no.: 17

Location: DUBLIN GULCH, YUKON, CANADA

Date: 01/12

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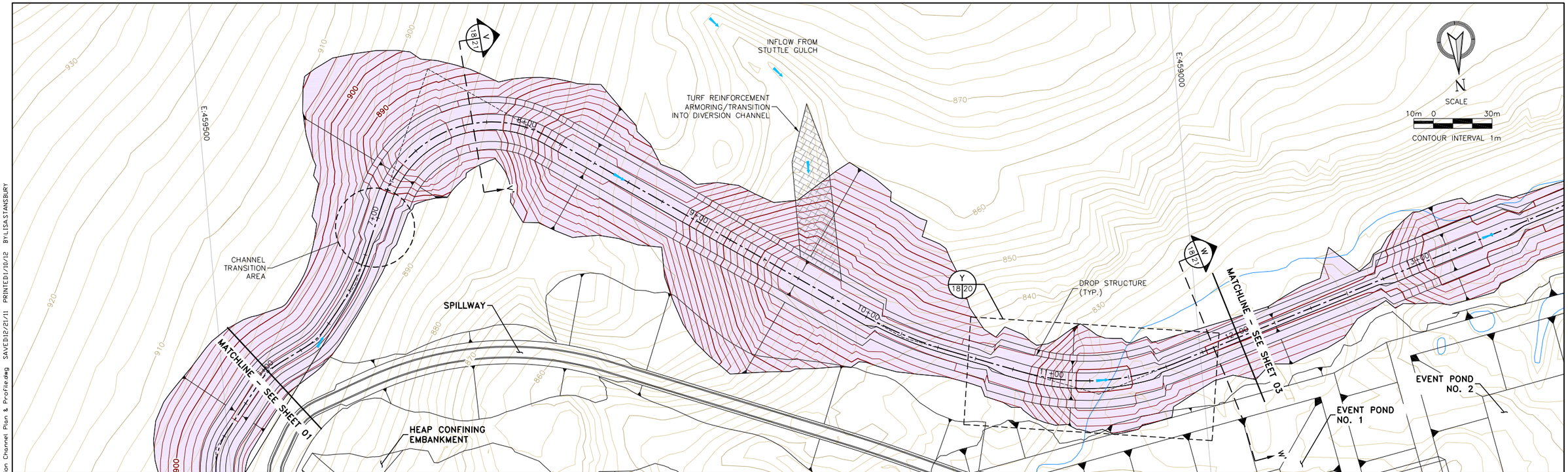
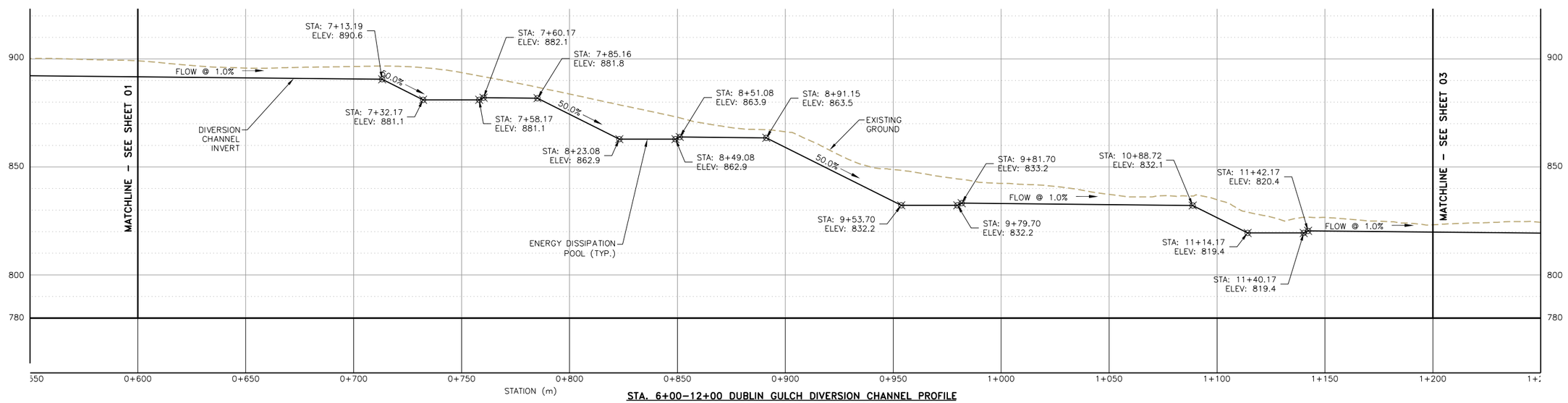


STA. 6+00–12+00 DUBLIN GULCH DIVERSION CHANNEL PLAN

SCALE: 1cm=10m (22x34 FORMAT)



STA. 6+00–12+00 DUBLIN GULCH DIVERSION CHANNEL PROFILE

SCALE: 1cm=20m (22x34 FORMAT)

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PLAN & PROFILE

REVISION C

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 18
SHEET 18 OF 22
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12

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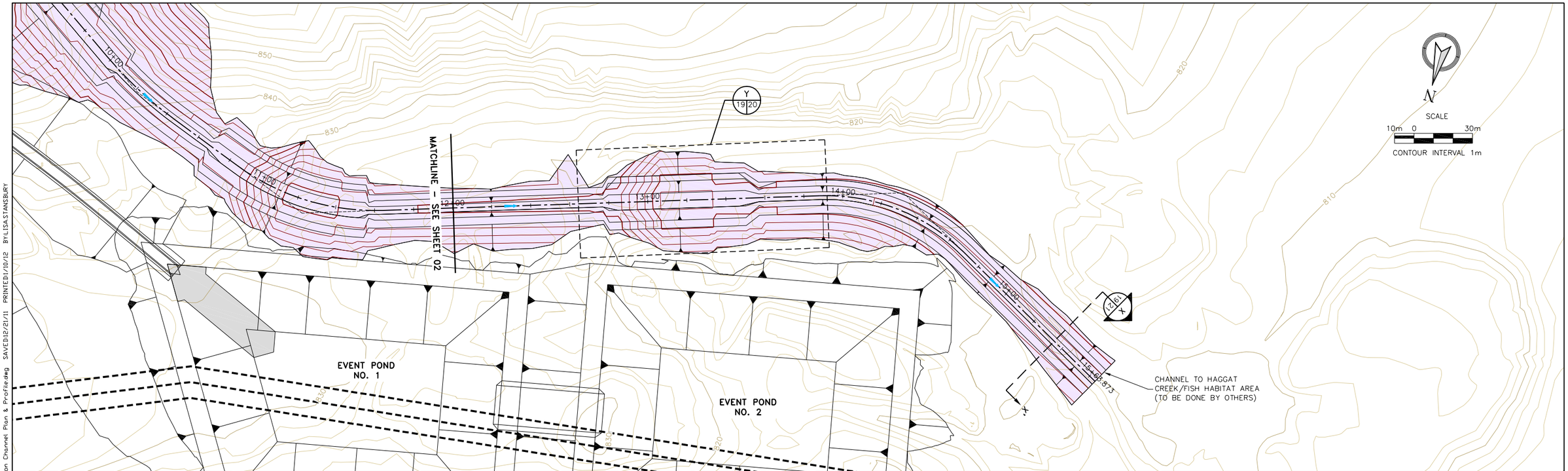
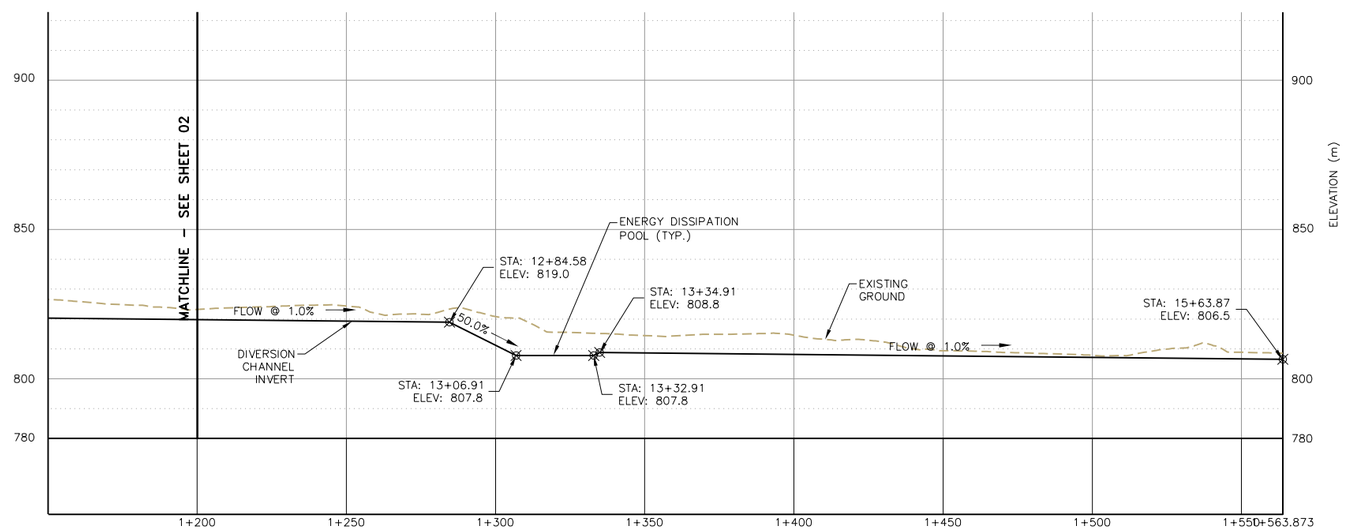


STA. 12+00–15+56.97 DUBLIN GULCH DIVERSION CHANNEL PLAN

SCALE: 1cm=10m (22x34 FORMAT)



STA. 12+00–15+56.97 DUBLIN GULCH DIVERSION CHANNEL PROFILE

SCALE: 1cm=20m (22x34 FORMAT)

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DUBLIN GULCH DIVERSION CHANNEL
PLAN & PROFILE

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY

Project no.: 320905X

Figure no.: 19

SHEET 19 OF 22

Location: DUBLIN GULCH, YUKON, CANADA

Date: 01/12

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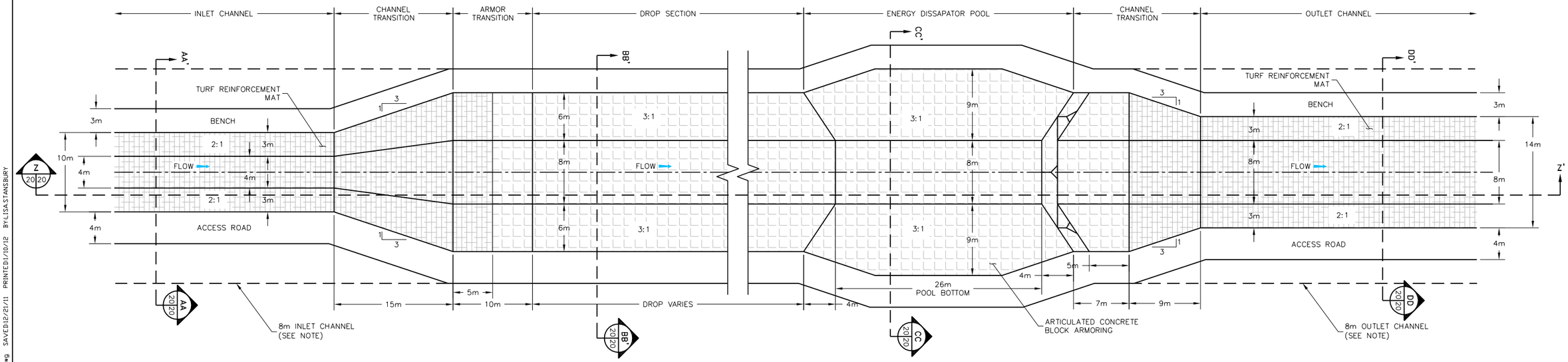
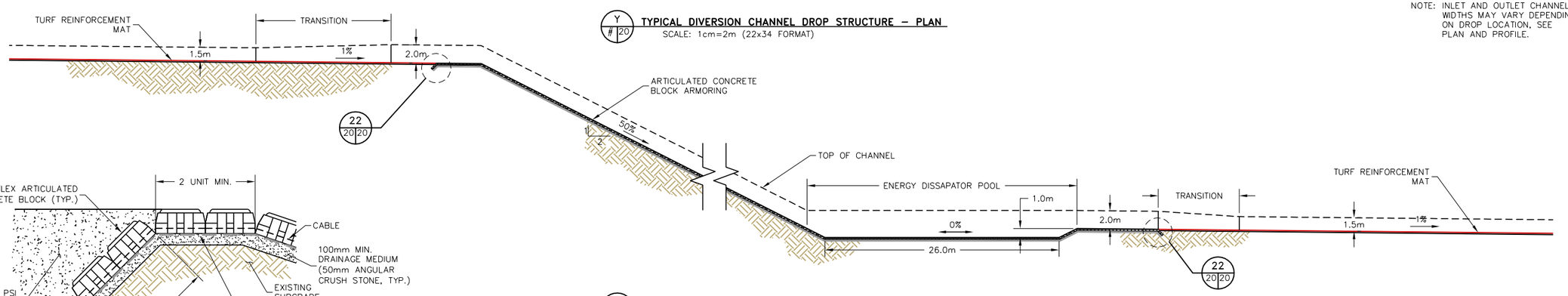
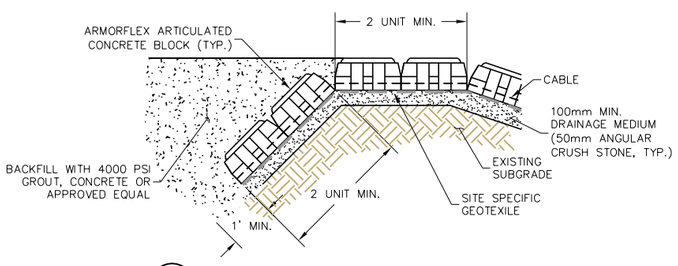


NOTE: INLET AND OUTLET CHANNEL WIDTHS MAY VARY DEPENDING ON DROP LOCATION. SEE PLAN AND PROFILE.

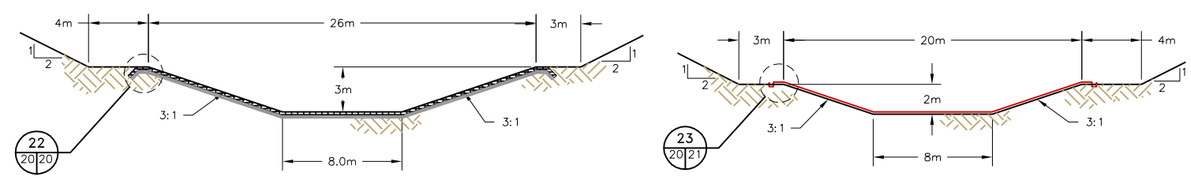
Y/20 **TYPICAL DIVERSION CHANNEL DROP STRUCTURE – PLAN**
SCALE: 1cm=2m (22x34 FORMAT)



Z/20 **TYPICAL DIVERSION CHANNEL DROP STRUCTURE – PROFILE**
SCALE: 1cm=2m (22x34 FORMAT)

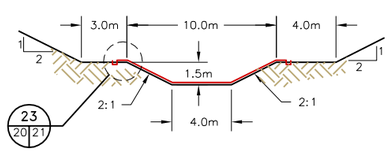


22/20 **ARMORFLEX TOP OF SLOPE – ANCHOR DETAIL**
SCALE: 1cm=5m (22x34 FORMAT)



CC/20 **TYPICAL POOL SECTION**
SCALE: 1cm=2m (22x34 FORMAT)

DD/20 **TYPICAL DIVERSION CHANNEL SECTION**
SCALE: 1cm=2m (22x34 FORMAT)



AA/20 **TYPICAL DIVERSION CHANNEL SECTION**
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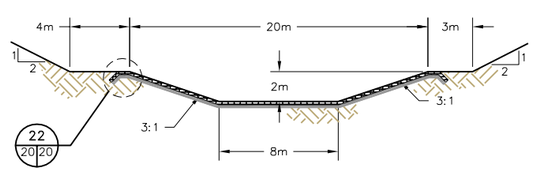

BB/20 **TYPICAL DROP SECTION**
SCALE: 1cm=2m (22x34 FORMAT)

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HEAP LEACH FACILITY
DUBLIN GULCH DIVERSION CHANNEL
SECTIONS & DETAILS

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY	Project no.: 320905X	Figure no.: 20
Location: DUBLIN GULCH, YUKON, CANADA	Date: 01/12	SHEET 20 OF 22

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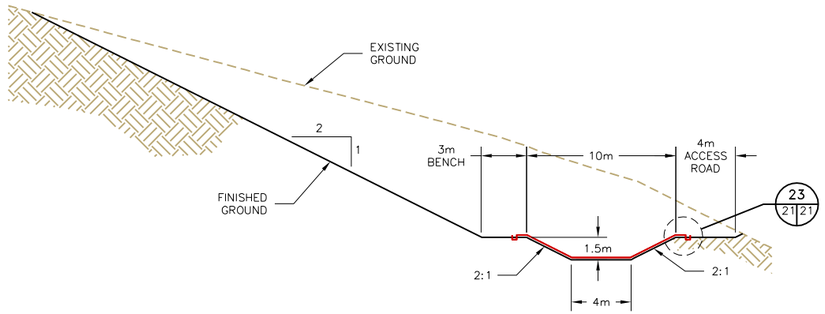
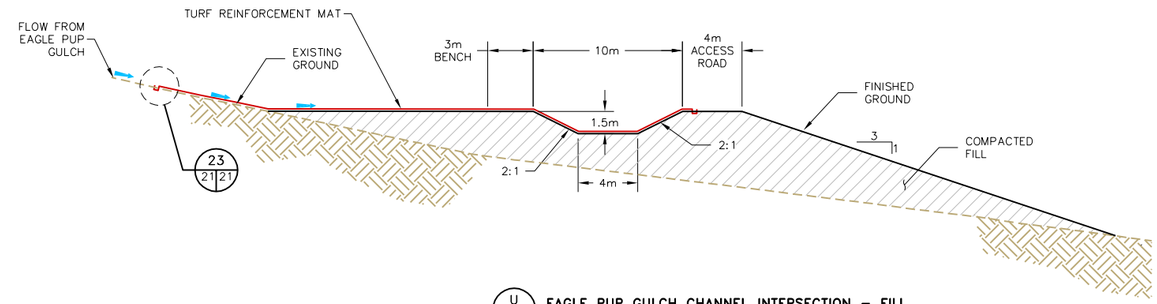


T 17 21 **TYPICAL DIVERSION CHANNEL SECTION – CUT**
SCALE: 1cm=5m (22x34 FORMAT)



U 17 21 **EAGLE PUP GULCH CHANNEL INTERSECTION – FILL**
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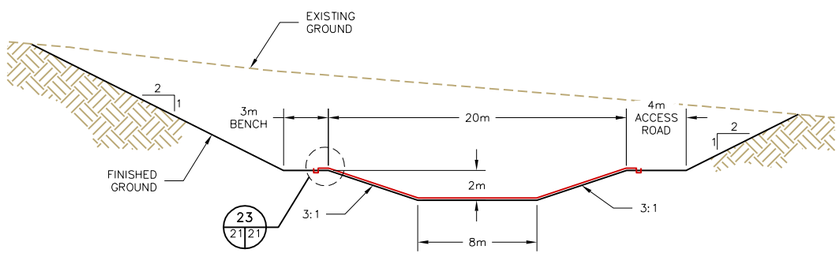

V 18 21 **TYPICAL DIVERSION CHANNEL SECTION – CUT**
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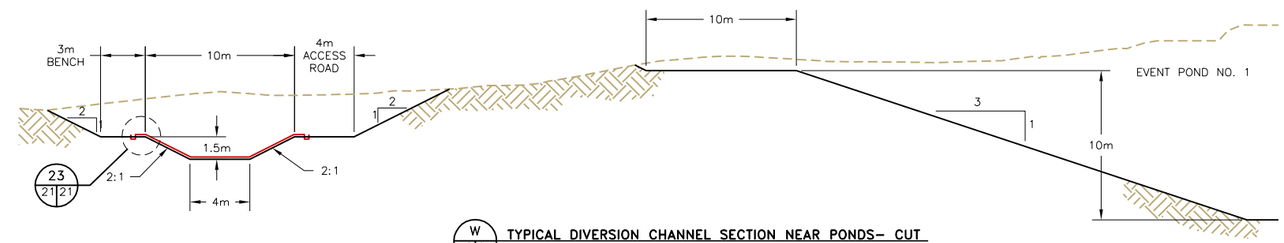
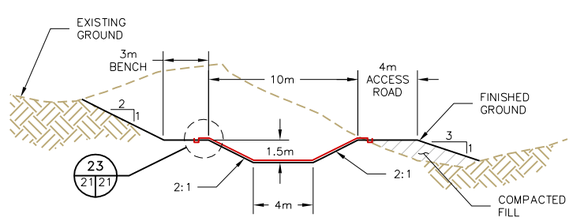


W 18 21 **TYPICAL DIVERSION CHANNEL SECTION NEAR PONDS– CUT**
SCALE: 1cm=5m (22x34 FORMAT)



X 19 21 **TYPICAL DIVERSION CHANNEL SECTION – CUT & FILL**
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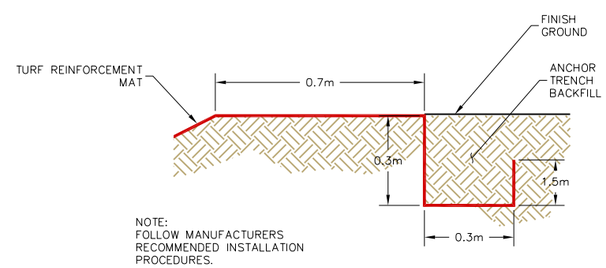

23 # 21 **CHANNEL ARMOR ANCHOR TRENCH DETAIL**
SCALE: 1cm=5m (22x34 FORMAT)

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HEAP LEACH FACILITY
DUBLIN GULCH DIVERSION CHANNEL
SECTIONS & DETAILS

C REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY
Project no.: 320905X
Figure no.: 21
Location: DUBLIN GULCH, YUKON, CANADA
Date: 01/12
SHEET 21 OF 22

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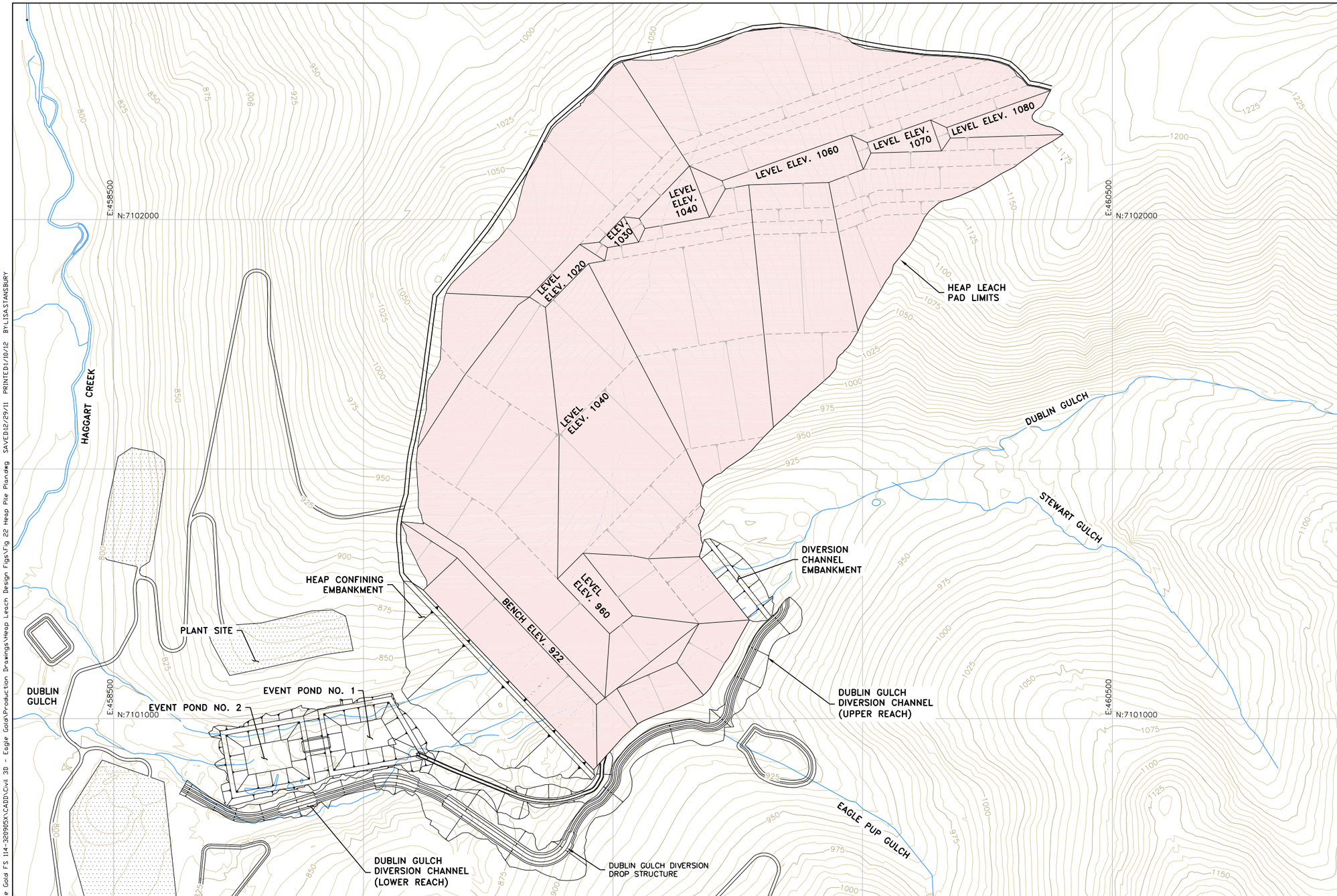

N

SCALE

40m 0 120m

CONTOUR INTERVAL 5m

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REFERENCE

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C	FEASIBILITY DESIGN SUBMITTAL	TLM	01/13/12
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REVISIONS

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Issued for:

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EAGLE GOLD PROJECT
HEAP LEACH FACILITY
ULTIMATE HEAP PILE PLAN

C
REVISION

Project: EAGLE GOLD PROJECT HEAP LEACH FACILITY

Project no.: 320905X

Figure no.: 22

SHEET 22 OF 22

Location: DUBLIN GULCH, YUKON, CANADA

Date: 01/12