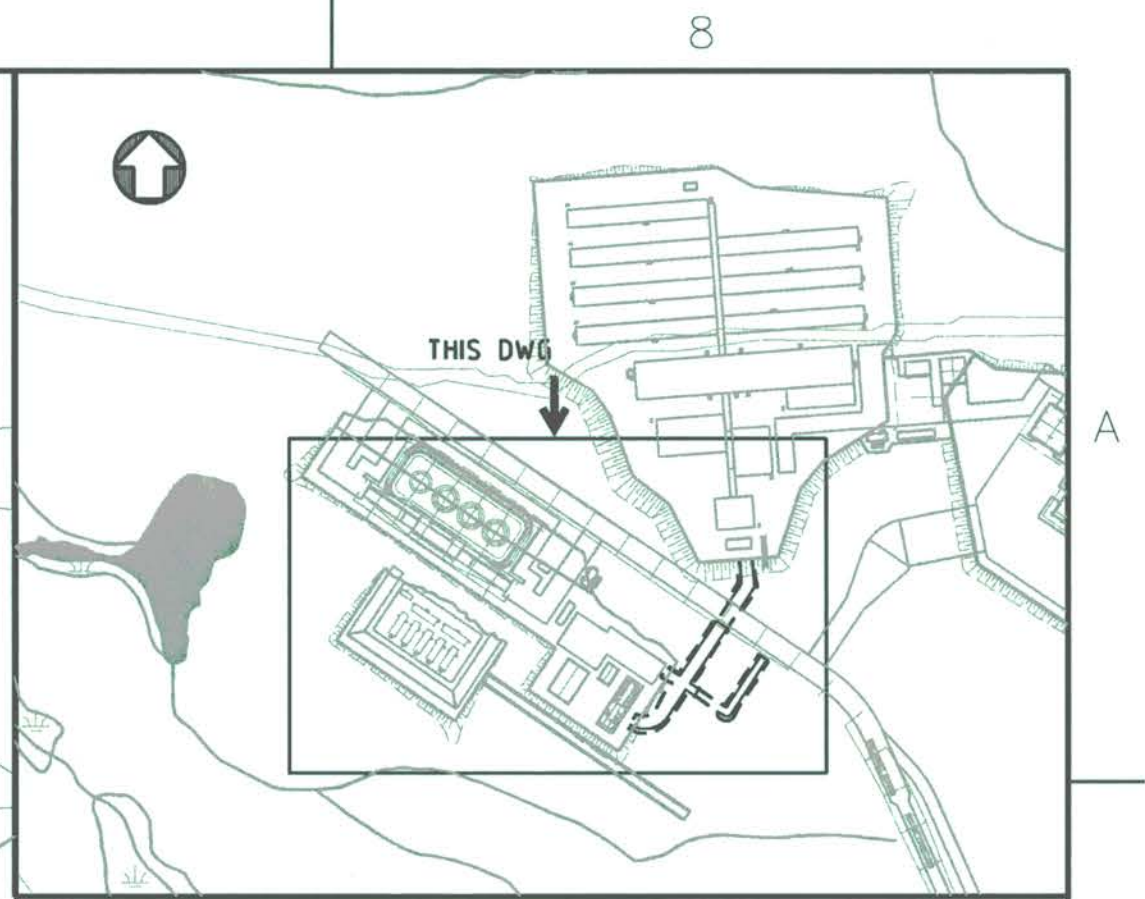
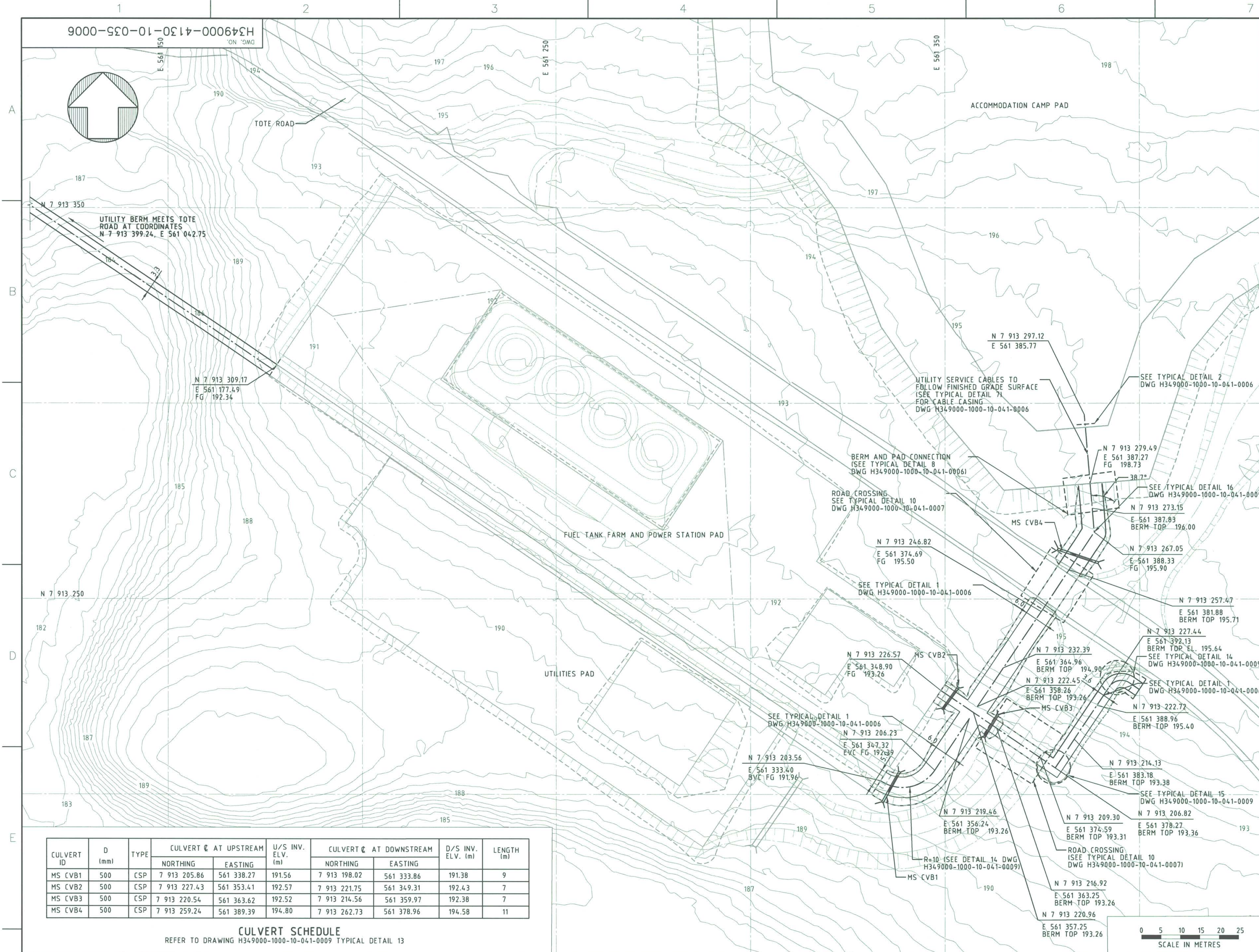




- LEGEND:**
- EXISTING GROUND CONTOUR
 - FILL SLOPE
 - CUT SLOPE
 - SKIDDED BUILDINGS
 - XXXX-BLD-XXX BUILDING ID
 - BVC BEGINNING OF VERTICAL CURVE
 - EVC END OF VERTICAL CURVE
 - CULVERT
 - CSP CORRUGATED STEEL PIPE

- NOTES:**
- TOPOGRAPHY PROVIDED BY TERRAPOINT CANADA INC.
 - COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METRES.
 - CONTOURS ARE IN METRES. CONTOUR INTERVAL IS 0.5 METRES.
 - ALL DIMENSIONS AND ELEVATIONS SHOWN ARE IN METRES UNLESS NOTED OTHERWISE.
 - SERVICES/SKIDDED BUILDINGS SHOWN ON THIS DRAWING ARE PRELIMINARY AND SHOULD BE VALIDATED AFTER FINALIZING BUILDINGS/STRUCTURES.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS H349000-1000-10-041-0006, 007 AND 009 (PROJECT WIDE - CIVIL STANDARD DRAWING - TYPICAL UTILITY BERM DETAILS - SHEET 1 OF 3, 2 OF 3 AND 3 OF 3).
 - FOR BUILDING NAMES REFER TO DRAWING H349000-4000-00-014-0003.
 - SURFACE RUNOFF IN THE VICINITY OF THE UTILITY CROSSING UNDERNEATH THE DRIVEABLE SURFACE SHALL BE MANAGED IN FIELD.
 - THIS DRAWING ONLY COVERS THE UTILITY BERM EARTHWORKS. FOR UTILITY BERM DETAILS FOR CABLING & PIPING DETAIL/REQUIREMENTS REFER TO DRAWING H349000-4000-00-014-0004.

FOR CONSTRUCTION

CULVERT ID	D (mm)	TYPE	CULVERT @ AT UPSTREAM		U/S INV. ELV. (m)	CULVERT @ AT DOWNSTREAM		D/S INV. ELV. (m)	LENGTH (m)
			NORTHING	EASTING		NORTHING	EASTING		
MS CVB1	500	CSP	7 913 205.86	561 338.27	191.56	7 913 198.02	561 333.86	191.38	9
MS CVB2	500	CSP	7 913 227.43	561 353.41	192.57	7 913 221.75	561 349.31	192.43	7
MS CVB3	500	CSP	7 913 220.54	561 363.62	192.52	7 913 214.56	561 359.97	192.38	7
MS CVB4	500	CSP	7 913 259.24	561 389.39	194.80	7 913 262.73	561 378.96	194.58	11

CULVERT SCHEDULE
REFER TO DRAWING H349000-1000-10-041-0009 TYPICAL DETAIL 13

DRAWING NO.	DRAWING TITLE
H349000-3000-10-012-0146	TOTE ROAD STA 171+350 TO 171+697 PLAN AND PROFILE
H349000-3000-10-012-0145	TOTE ROAD STA 170+650 TO 171+350 PLAN AND PROFILE
H349000-4130-10-035-0001	MINE SITE - UTILITIES PAD - EARTHWORKS & DRAINAGE - PLAN
H349000-4139-10-012-0004	MINE SITE - INFRASTRUCTURE PADS ACCESS ROADS - PLAN
H349000-4000-00-014-0003	MINE SITE - INFRASTRUCTURE - SITE LAYOUT

PERMIT TO PRACTICE
HATCH LTD.
Signature: *[Signature]*
Date: 30 Apr 13
PERMIT NUMBER: P 512
The Association of Professional Engineers, Geologists and Geophysicists of NW/NTNU

THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF BATHINLAND IRON CORPORATION (CLIENT) AND IS ISSUED PURSUANT TO THE AGREEMENT BETWEEN CLIENT AND HATCH LTD. ANY REUSE OR MODIFICATION OF THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR REUSE OF THIS DRAWING BY CLIENT, AND ANY MODIFICATION OR REUSE OF THIS DRAWING BY CLIENT, SHALL BE THE PROPERTY OF HATCH.

NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE
REVISIONS					

REGISTERED PROFESSIONAL ENGINEER
M.M.S. HASSAN
LICENCEE
NTNU

DESIGNED BY: K. FALLAHT
DATE 2013-08-23
CHECKED BY: A. SAHELI
DATE 2013-08-30
PROJ. DES. COORD.: T. THERTEL
DATE 2013-08-30
PROJ. MGR.: S. PERRY
DATE 2013-08-30

SH AV 2013/08/30

ISSUE AUTHORIZATION

HATCH

DESIGNED BY: K. FALLAHT
DATE 2013-08-23
CHECKED BY: A. SAHELI
DATE 2013-08-30
PROJ. DES. COORD.: T. THERTEL
DATE 2013-08-30
PROJ. MGR.: S. PERRY
DATE 2013-08-30

DRAWN BY: A. VALENCIA
DATE 2013-08-23
DISCIP. ENGR.: S. HASSAN
DATE 2013-08-30
PROJ. ENGR.: J. CLELAND
DATE 2013-08-30

Bathinland

MARY RIVER PROJECT

**MINE SITE
UTILITY BERM EARTHWORKS
PLAN - SHEET 2 OF 2**

SCALE: 1:500
OR AS NOTED

DWG. NO.: H349000-4130-10-035-0006

REV. 0

ORIGINAL SHEET SIZE: ISO A1 (841 x 594)