

**Public Works and
Government Services
Canada**

**Travaux publics et
Services gouvernementaux
Canada**

**REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest**

**GIANT MINE
UNDERGROUND WORKS
DIAMOND CORE DRILLING**

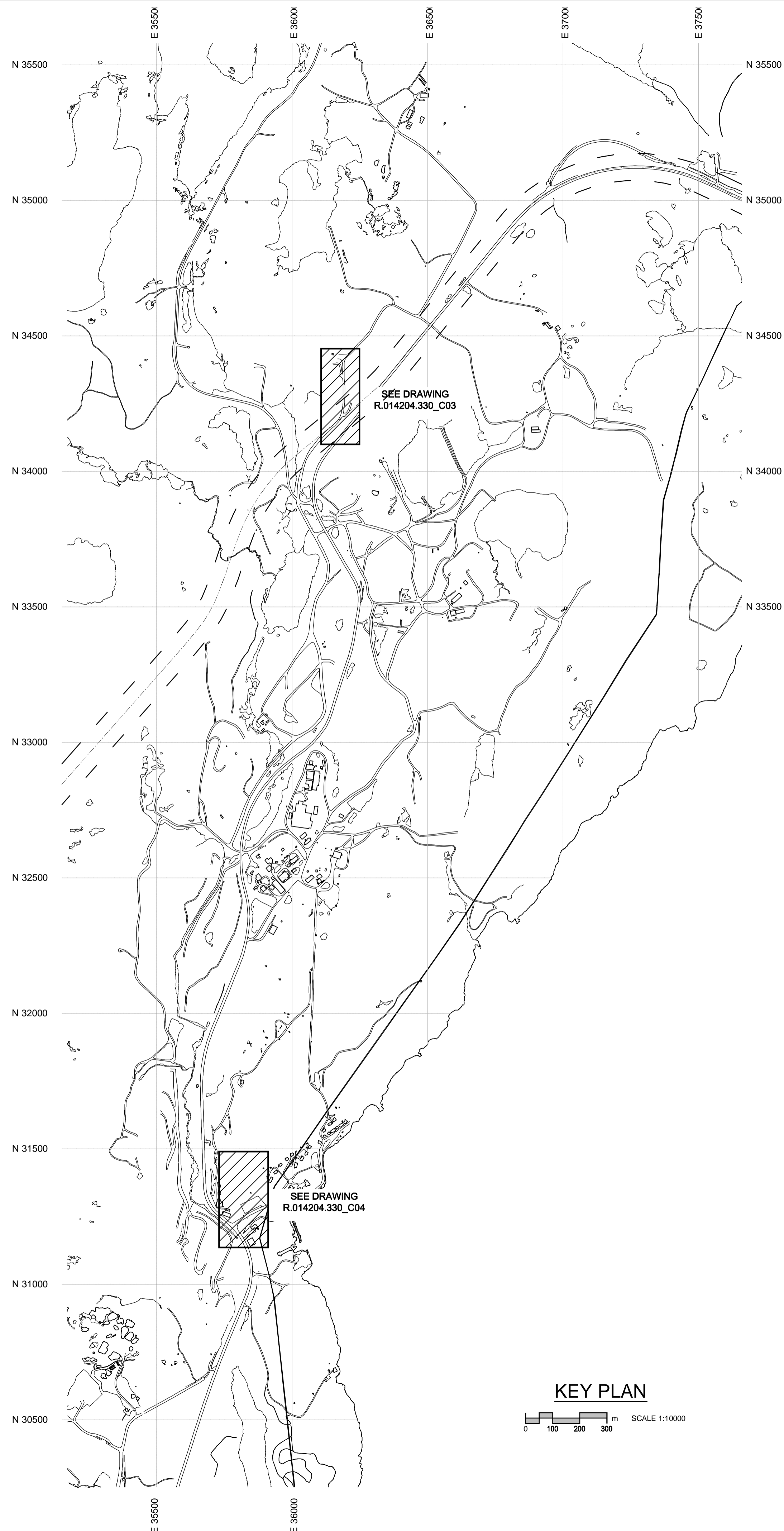


**ISSUED FOR
TENDER**

PROJECT No. R.014204.330



10 March 2015



LIST OF DRAWINGS

DWG NUMBER	TITLE OF DRAWING
R.014204.330_C00	COVER SHEET
R.014204.330_C01	KEY PLAN
R.014204.330_C02	OVERALL SITE PLAN
R.014204.330_C03	AREA B1-43 SITE PLAN
R.014204.330_C04	AREA A2-01 SITE PLAN
R.014204.330_C05	TYPICAL DETAILS

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C		
B	ISSUED FOR TENDER	2015/03/10
A	ISSUED FOR 90% REVIEW	2015/01/30

Client / Client
**PUBLIC WORKS
GOVERNMENT SERVICES
CANADA**

Project Title / Titre du projet
**GIANT MINE
REMEDICATION PROJECT
UNDERGROUND WORKS
DIAMOND CORE DRILLING**

Approved by / Approuvé par
R. Schmidtke
Designed by / Conçu par
Golder Associates
Drawn by / Dessiné par
W. Kruger
PWGSC Project Manager / Administrateur de Projets TPWGC
D. Colbourne
PWGSC, Architectural and Engineering Resources Manager /
Ressources Architecturales et de Directeur d'Ingénierie, TPWGC

Client / Client
PWGSC

Drawing Title / Titre du dessin
**KEY PLAN
and
LIST OF DRAWINGS**

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
R.014204.330	C01 OF 5	B

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LEGEND

- OVERHEAD POWERLINES
- ACCESS ROAD
- BOREHOLE LOCATION AREA
- GMRP SURVEY CONTROL POINT

Scale: 1:5000
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Client/Client: **PUBLIC WORKS
GOVERNMENT SERVICES
CANADA**

Project title/Titre du projet: **GIANT MINE
REMEDATION PROJECT
UNDERGROUND WORKS
DIAMOND CORE DRILLING**

Approved by/Approuvé par: R. Schmitzke

Designed by/Concept par: D. Mitchell

Drawn by/Dessiné par: K. Nguyen

PWSSC Project Manager/Administrateur de Projets TPSSC
D. Colbourne

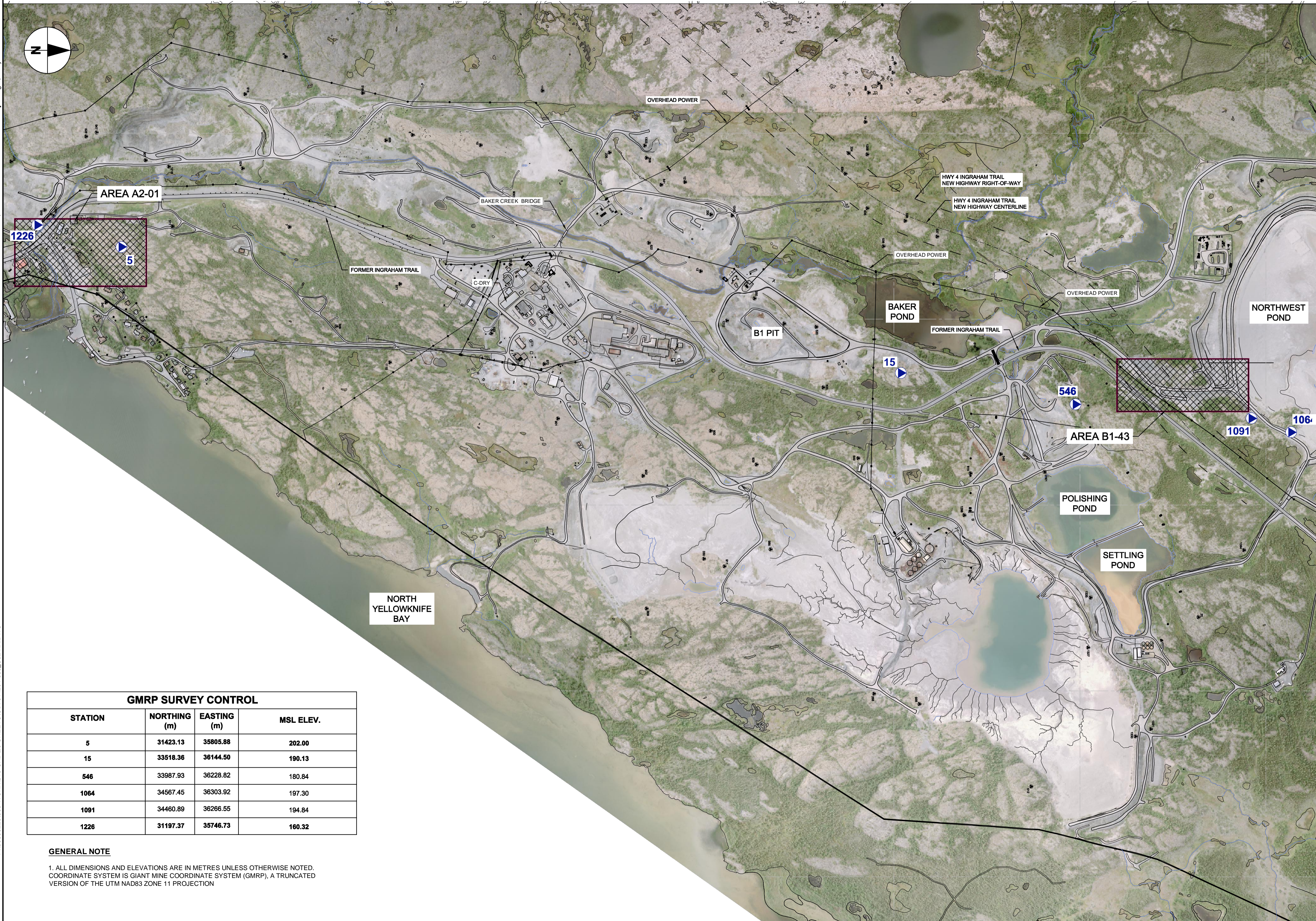
PWSSC, Architectural and Engineering Resources Manager/
Ressources Architecturales et de Directeur d'Ingénierie, TPSSC

Client/Client: PWSSC

Drawing title/Titre du dessin:

OVERALL SITE PLAN

Project No./ No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.014204.330	C02 OF C05	B

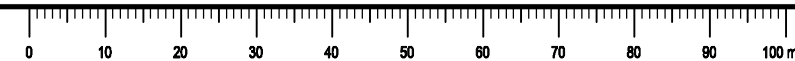


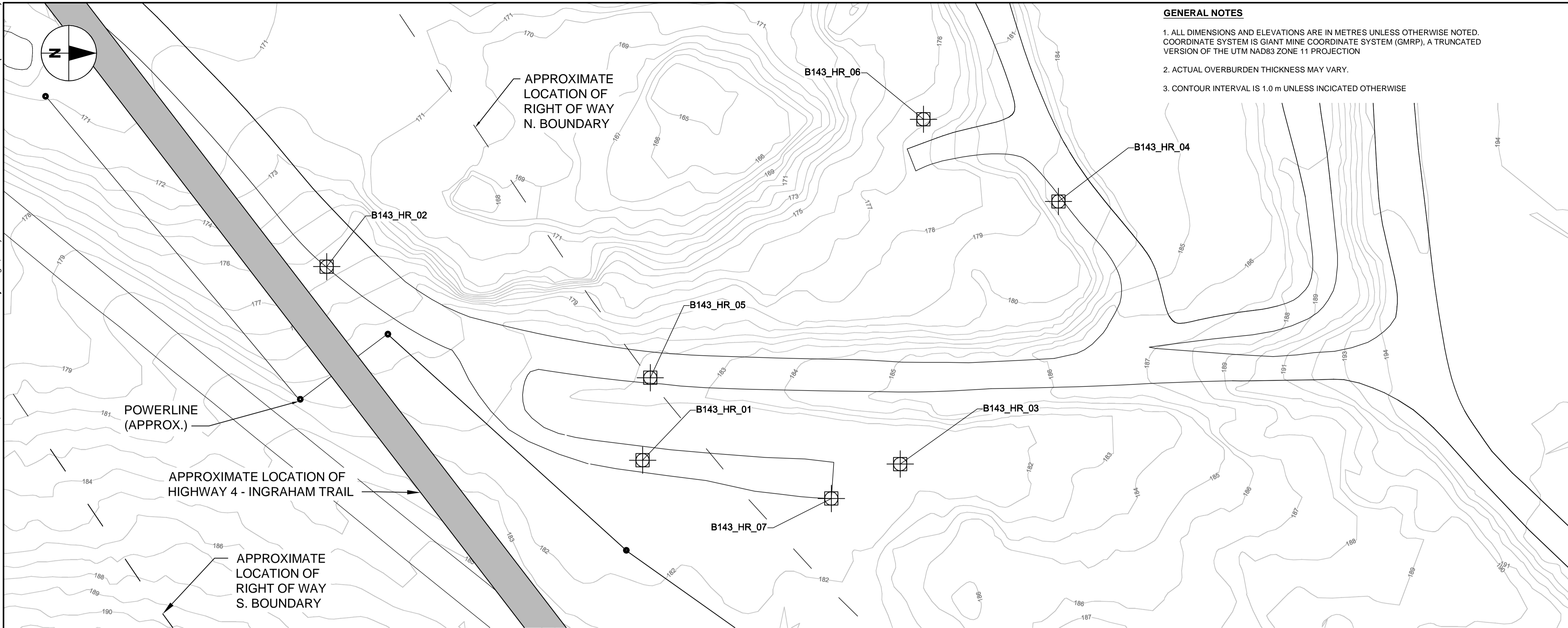
GMRP SURVEY CONTROL

STATION	NORTHING (m)	EASTING (m)	MSL ELEV.
5	31423.13	35805.88	202.00
15	33518.36	36144.50	190.13
546	33987.93	36228.82	180.84
1064	34567.45	36303.92	197.30
1091	34460.89	36266.55	194.84
1226	31197.37	35746.73	160.32

GENERAL NOTE

1. ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED. COORDINATE SYSTEM IS GIANT MINE COORDINATE SYSTEM (GMRP), A TRUNCATED VERSION OF THE UTM NAD83 ZONE 11 PROJECTION





GENERAL NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED. COORDINATE SYSTEM IS GIANT MINE COORDINATE SYSTEM (GMRP), A TRUNCATED VERSION OF THE UTM NAD83 ZONE 11 PROJECTION
2. ACTUAL OVERBURDEN THICKNESS MAY VARY.
3. CONTOUR INTERVAL IS 1.0 m UNLESS INDICATED OTHERWISE

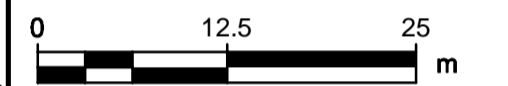
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LEGEND

- OVERHEAD POWERLINES
- ACCESS ROAD



1:500

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Project Title / Titre du projet
GIANT MINE
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UNDERGROUND WORKS
DIAMOND CORE DRILLING

Approved by / Approuvé par
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 Drawn by / Dessiné par
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 PWGSC Project Manager / Administrateur de Projets TPWGC
 D. Colbourne
 PWGSC, Architectural and Engineering Resources Manager /
 Ressources Architecturales et de Directeur d'ingénierie, TPWGC

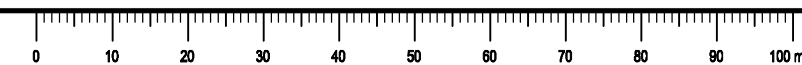
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 PWGSC
 Drawing Title / Titre du dessin

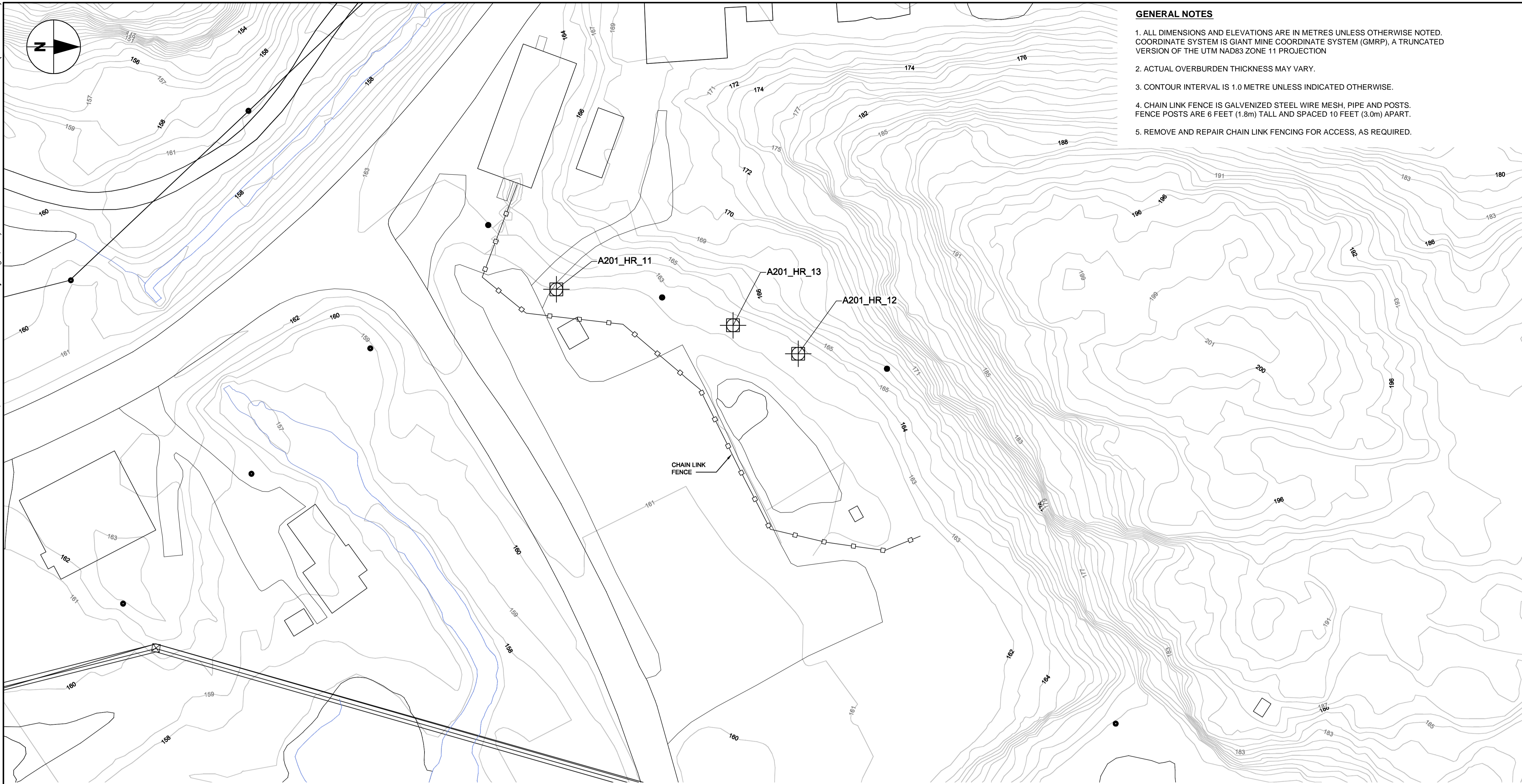
AREA B1-43
SITE PLAN

Project No. / No. du projet	Sheet / Feuille	Revision no. / La Révision no.
R.014204.330	C03 OF 5	B

AREA	BOREHOLE IDENTIFICATION NUMBER	CORE BOREHOLE TYPE	BOREHOLE DIAMETER [mm]	BOREHOLE COLLAR (m)			BOREHOLE END OF HOLE (m)			Δ COLLAR TO END OF HOLE (m)			BOREHOLE LENGTH (m)	AZIMUTH (DEGREES)	DIP (DEGREES BELOW HORIZONTAL)	MAXIMUM ALLOWABLE BOREHOLE EOH DEVIATION (%)	APPROXIMATE OVERBURDEN LENGTH (m)	COMMENTS
				NORTHING (GMRP)	EASTING (GMRP)	ELEVATION (GMRP)	NORTHING (GMRP)	EASTING (GMRP)	ELEVATION (GMRP)	Δ NORTHING (GMRP)	Δ EASTING (GMRP)	Δ ELEVATION (m)						
B1-43	B143_HR_01	HQ3	96.0	34243.78	36210.35	181.00	34244.40	36205.56	159.36	0.62	-4.79	21.64	22.17	277.42	-77.43	5.0	4	Borehole is located within Highway 4 Right of Way. Borehole is located on active access road. Maintain access for traffic during drilling.
B1-43	B143_HR_02	HQ3	96.0	34172.51	36166.66	175.97	34164.63	36170.61	162.79	-7.88	3.95	13.19	15.86	153.39	-56.26	8.0	3	Borehole is located within Highway 4 Right of Way. Borehole is located on active access road. Maintain access for traffic during drilling.
B1-43	B143_HR_03	HQ3	96.0	34301.90	36211.23	181.00	34306.40	36215.15	162.27	4.50	3.91	18.73	19.65	41.01	-72.34	7.0	0	
B1-43	B143_HR_04	HQ3	96.0	34337.60	36151.95	182.15	34337.60	36151.95	148.36	0.00	0.00	33.79	33.79	0.00	90.00	6.0	4	Borehole located on active access road. Maintain access for traffic during drilling.
B1-43	B143_HR_05	HQ3	96.0	34245.51	36191.74	182.00	34246.02	36186.93	166.63	0.52	-4.81	15.36	16.11	276.11	-72.52	10.0	5	Borehole located on active access road. Maintain access for traffic during drilling.
B1-43	B143_HR_06	HQ3	96.0	34307.14	36133.39	176.81	34306.37	36130.52	163.53	-0.78	-2.87	13.28	13.61	254.88	-77.37	10.0	5	
B1-43	B143_HR_07	HQ3	96.0	34286.36	36219.00	181.05	34281.28	36226.59	159.63	-5.08	7.59	21.42	23.29	123.79	-66.91	10.0	0	

* BOREHOLES WITHIN AREA B1-43 TO BE COMPLETED FIRST





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2. ACTUAL OVERBURDEN THICKNESS MAY VARY.
3. CONTOUR INTERVAL IS 1.0 METRE UNLESS INDICATED OTHERWISE.
4. CHAIN LINK FENCE IS GALVANIZED STEEL WIRE MESH, PIPE AND POSTS. FENCE POSTS ARE 6 FEET (1.8m) TALL AND SPACED 10 FEET (3.0m) APART.
5. REMOVE AND REPAIR CHAIN LINK FENCING FOR ACCESS, AS REQUIRED.

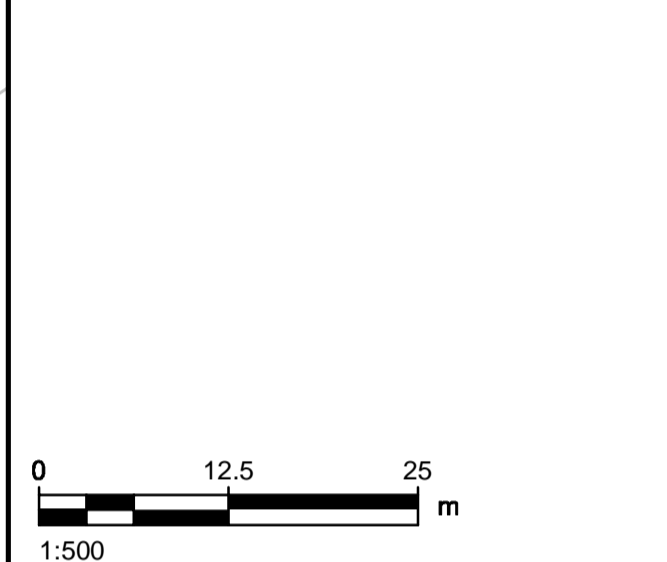
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LEGEND

	OVERHEAD POWERLINES
	POWER TRANSMISSION
	ACCESS ROAD
	POWER POLE
	CHAINLINK FENCE
	WATERCOURSE



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**PUBLIC WORKS
 GOVERNMENT SERVICES
 CANADA**

Project Title / Titre du projet

**GIANT MINE
 REMEDIATION PROJECT
 UNDERGROUND WORKS
 DIAMOND CORE DRILLING**

Approved by / Approuvé par
 R. Schmidtke

Designed by / Conçu par
 Golder Associates

Drawn by / Dessiné par
 K. Nguyen

PWGSC Project Manager / Administrateur de Projets TPWSC
 D. Colbourne

PWGSC, Architectural and Engineering Resources Manager /
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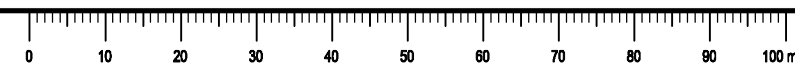
Client / Client
 PWGSC

Drawing Title / Titre du dessin

**AREA A2-01
 SITE PLAN**

AREA	BOREHOLE IDENTIFICATION NUMBER	CORE BOREHOLE TYPE	BOREHOLE DIAMETER [mm]	BOREHOLE COLLAR (m)			BOREHOLE END OF HOLE (m)			Δ COLLAR TO END OF HOLE (m)			BOREHOLE LENGTH (m)	AZIMUTH (DEGREES)	DIP (DEGREES BELOW HORIZONTAL)	MAXIMUM ALLOWABLE BOREHOLE EOH DEVIATION (%)	APPROXIMATE OVERBURDEN LENGTH (m)	COMMENTS
				NORTHING (GMRP)	EASTING (GMRP)	ELEVATION (GMRP)	NORTHING (GMRP)	EASTING (GMRP)	ELEVATION (GMRP)	Δ NORTHING (GMRP)	Δ EASTING (GMRP)	Δ ELEVATION (m)						
A2-01	A201_HR_11	HQ3	96.0	31265.21	35796.98	162.00	31266.50	35790.61	133.96	1.29	-6.38	28.04	28.79	281.43	-76.94	3.0	3	
A2-01	A201_HR_12	HQ3	96.0	31321.42	35811.96	162.78	31315.81	35810.35	142.38	-5.61	-1.61	20.40	21.22	196.01	-74.03	9.0	3	
A2-01	A201_HR_13	HQ3	96.0	31306.27	35805.35	162.59	31306.27	35805.35	139.19	0.00	0.00	23.40	23.40	090.00	-90.00	14.0	5	

* BOREHOLES WITHIN AREA B1-43 TO BE COMPLETED FIRST



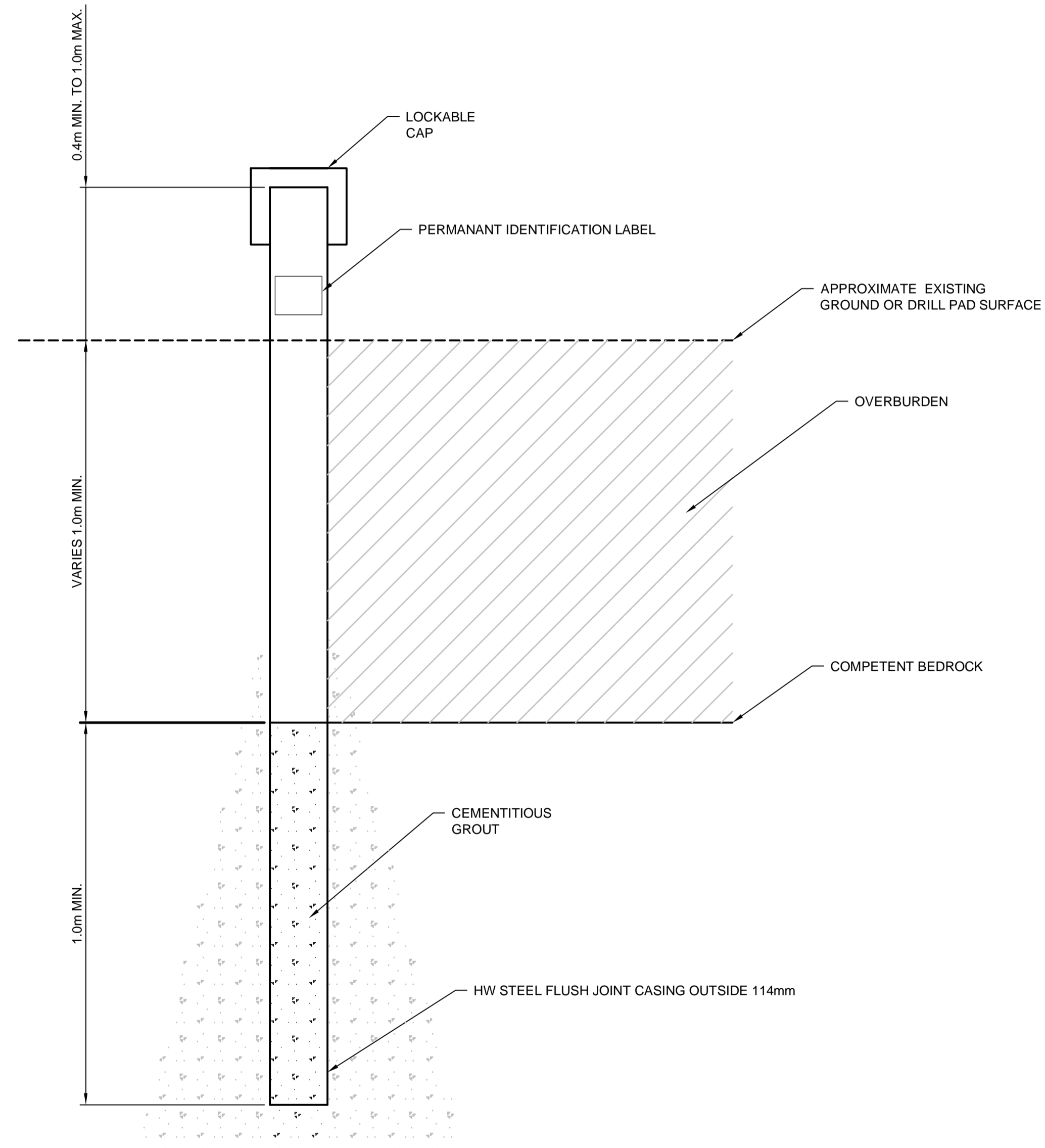
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ALL BOREHOLES:
TO BE SECURED AT SURFACE WITH STEEL CASING, LOCKABLE CAP AND PERMANENT ID LABEL.

ABANDONED BOREHOLES:
GROUT ENTIRE COLUMN FROM COMPLETION DEPTH TO SURFACE. CUT-OFF AND REMOVE STEEL CASING WITHIN 300mm OF EXISTING GROUND SURFACE OR REMOVE COMPLETELY.



TYPICAL BOREHOLE COMPLETION DETAIL

N.T.S.

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TYPICAL DETAILS

Project No. / No. du projet R.014204.330	Sheet / Feuille C05 OF 5	Revision no. / La Révision no. B
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